

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	EB-6039	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
XXXXX.X	XXXXXXX	P.E.	
		RIGHT-OF-WAY CONSTRUCTION	

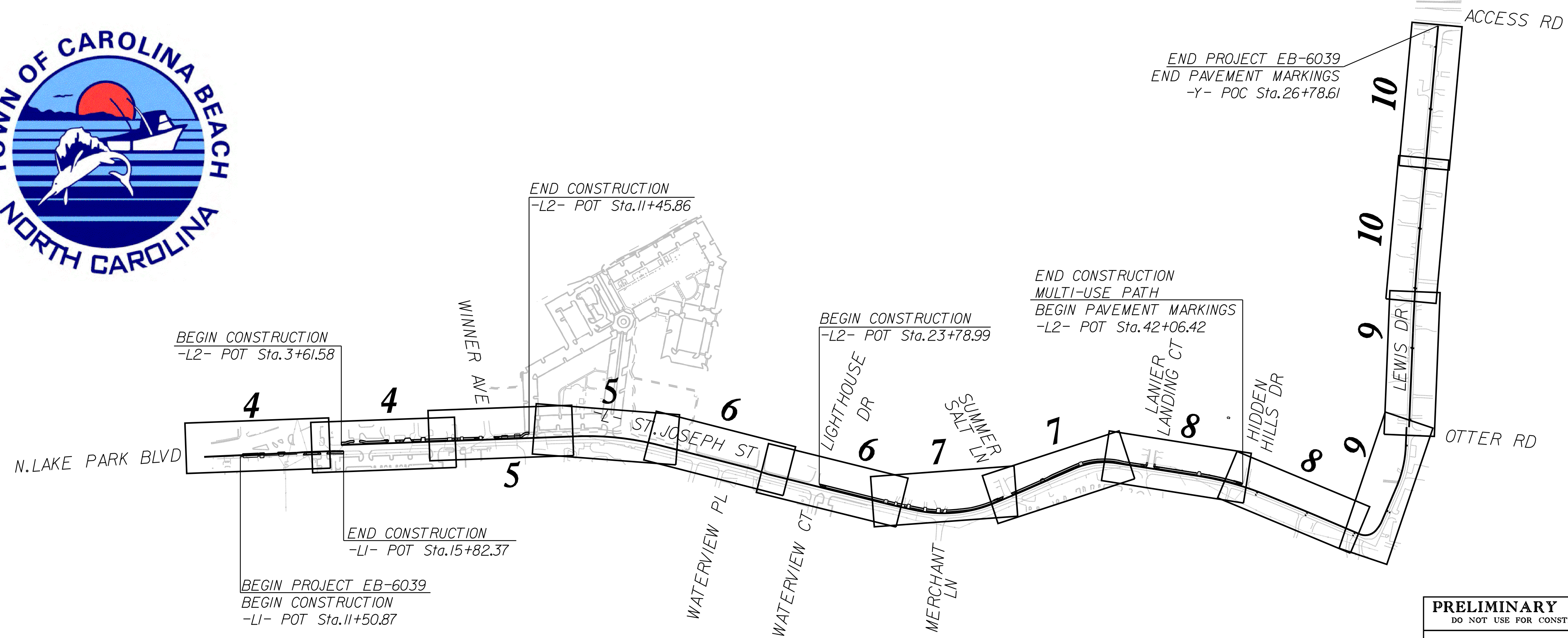
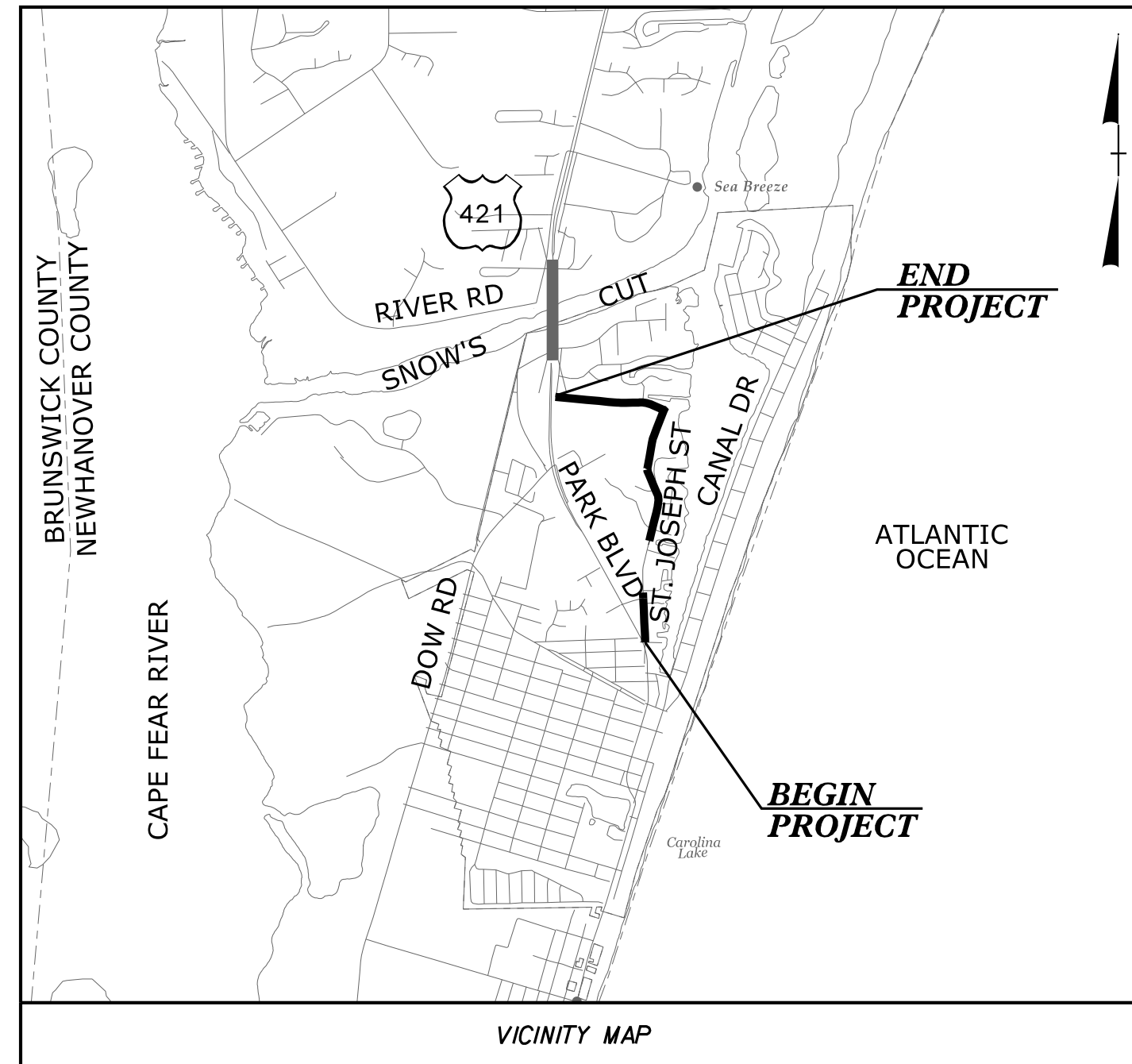
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

NEW HANOVER COUNTY

**LOCATION: ST. JOSEPH STREET FROM N. LAKE PARK BOULEVARD (US 421)
TO THE INTERSECTION OF LEWIS DR. AND ACCESS RD**

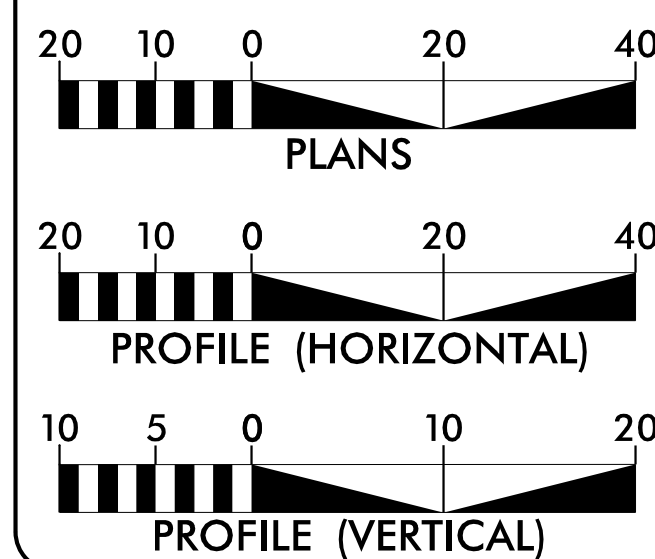
TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND SIDEWALK

TIP PROJECT: EB-6039



PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

N/A

PROJECT LENGTH

TOTAL LENGTH TIP PROJECT EB-6039 = 1.320 MILES

PLANS PREPARED FOR
THE TOWN OF CAROLINA BEACH
BY:



2024 STANDARD SPECIFICATIONS

LETTING DATE:

EVAN PARROTT, P.E.
PROJECT ENGINEER

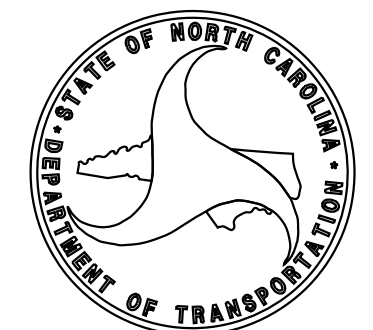
SPENCER STRINGFELLOW, E.I.
PROJECT DESIGN ENGINEER

BEN MEISTER
CAROLINA BEACH TOWN MANAGER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.
ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



PROJECT REFERENCE NO.	SHEET NO.
EB-6039	I-A
ROADWAY DESIGN ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
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EB-6039
NEW HANOVER COUNTY

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
2A-1 THRU 2A-3	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2D-1	DRAINAGE DETAILS
3D-1	DRAINAGE SUMMARY SHEET
4 THRU 10	PLAN SHEETS
TMP-1 THRU TMP-2	TRAFFIC MANAGEMENT PLANS
PSP-1 THRU PSP-8	PAVEMENT MARKING AND SIGNING PLANS
X-0	CROSS-SECTION SUMMARY SHEET
X-1 THRU X-9	CROSS-SECTIONS

2024 SPECIFICATIONS

EFFECTIVE: 01-01-24

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.

CLEARING:

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

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE :

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

CURB RAMPS:

CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. CONSTRUCT ALL CURB RAMPS IN ACCORDANCE WITH STD 848.06 AND/OR DETAILS IN THE PLANS.

2024 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, 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD.NO.	TITLE
200.02	METHOD OF CLEARING - METHOD II
846.01	CONCRETE CURB, GUTTER AND CURB & GUTTER
848.01	CONCRETE SIDEWALK
848.05	CURB RAMP - PROPOSED CURB & GUTTER
876.02	GUIDE FOR RIP RAP AT PIPE OUTLETS
903.10	GROUND MOUNTED SIGN SUPPORTS
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D' 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS
1101.01	WORK ZONE ADVANCE WARNING SIGNS FOR TWO-WAY UNDIVIDED FACILITIES
1101.02	TEMPORARY LANE CLOSURES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUMS
1135.01	CONES
1150.01	FLAGGERS
1180.01	SKINNY DRUMS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.16	BICYCLE FACILITIES

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

BOUNDARIES AND PROPERTY:

State Line	
County Line	
Township Line	
City Line	
Reservation Line	
Property Line	
Existing Iron Pin (EIP)	
Computed Property Corner	
Existing Concrete Monument (ECM)	
Parcel/Sequence Number	
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Existing Historic Property Boundary	
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	
Well	
Small Mine	
Foundation	
Area Outline	
Cemetery	
Building	
School	
Church	
Dam	

HYDROLOGY:

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

RAILROADS:

Standard Gauge	
RR Signal Milepost	
Switch	
RR Abandoned	
RR Dismantled	

RIGHT OF WAY & PROJECT CONTROL:

Primary Horiz Control Point	
Primary Horiz and Vert Control Point	
Secondary Horiz and Vert Control Point	
Vertical Benchmark	
Existing Right of Way Monument	
Proposed Right of Way Monument (Rebar and Cap)	
Proposed Right of Way Monument (Concrete)	
Existing Permanent Easement Monument	
Proposed Permanent Easement Monument (Rebar and Cap)	
Existing C/A Monument	
Proposed C/A Monument (Rebar and Cap)	
Proposed C/A Monument (Concrete)	
Existing Right of Way Line	
Proposed Right of Way Line	
Existing Control of Access Line	
Proposed Control of Access Line	
Proposed ROW and CA Line	
Existing Easement Line	
Proposed Temporary Construction Easement	
Proposed Temporary Drainage Easement	
Proposed Permanent Drainage Easement	
Proposed Permanent Drainage/Utility Easement	
Proposed Permanent Utility Easement	
Proposed Temporary Utility Easement	
Proposed Aerial Utility Easement	

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	
Proposed Slope Stakes Fill	
Proposed Curb Ramp	
Existing Metal Guardrail	
Proposed Guardrail	
Existing Cable Guiderail	
Proposed Cable Guiderail	
Equality Symbol	
Pavement Removal	
Single Tree	
Single Shrub	
Hedge	

VEGETATION:

Woods Line	
Orchard	
Vineyard	

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	
Bridge Wing Wall, Head Wall and End Wall	
MINOR:	
Head and End Wall	
Pipe Culvert	
Footbridge	
Drainage Box: Catch Basin, DI or JB	
Paved Ditch Gutter	
Storm Sewer Manhole	
Storm Sewer	

UTILITIES:

* SUE - Subsurface Utility Engineering
LOS - Level of Service - A, B, C or D (Accuracy)

POWER:	
Existing Power Pole	
Proposed Power Pole	
Existing Joint Use Pole	
Proposed Joint Use Pole	
Power Manhole	
Power Line Tower	
Power Transformer	
U/G Power Cable Hand Hole	
H-Frame Pole	
U/G Power Line Test Hole (SUE - LOS A)*	
U/G Power Line (SUE - LOS B)*	
U/G Power Line (SUE - LOS C)*	
U/G Power Line (SUE - LOS D)*	

TELEPHONE:

Existing Telephone Pole	
Proposed Telephone Pole	
Telephone Manhole	
Telephone Pedestal	
Telephone Cell Tower	
U/G Telephone Cable Hand Hole	
U/G Telephone Test Hole (SUE - LOS A)*	
U/G Telephone Cable (SUE - LOS B)*	
U/G Telephone Cable (SUE - LOS C)*	
U/G Telephone Cable (SUE - LOS D)*	
U/G Telephone Conduit (SUE - LOS B)*	
U/G Telephone Conduit (SUE - LOS C)*	
U/G Telephone Conduit (SUE - LOS D)*	
U/G Fiber Optics Cable (SUE - LOS B)*	
U/G Fiber Optics Cable (SUE - LOS C)*	
U/G Fiber Optics Cable (SUE - LOS D)*	

WATER:

Water Manhole	
Water Meter	
Water Valve	
Water Hydrant	
U/G Water Line Test Hole (SUE - LOS A)*	
U/G Water Line (SUE - LOS B)*	
U/G Water Line (SUE - LOS C)*	
U/G Water Line (SUE - LOS D)*	
Above Ground Water Line	
TV:	
TV Pedestal	
TV Tower	
U/G TV Cable Hand Hole	
U/G TV Test Hole (SUE - LOS A)*	
U/G TV Cable (SUE - LOS B)*	
U/G TV Cable (SUE - LOS C)*	
U/G TV Cable (SUE - LOS D)*	
U/G Fiber Optic Cable (SUE - LOS B)*	
U/G Fiber Optic Cable (SUE - LOS C)*	
U/G Fiber Optic Cable (SUE - LOS D)*	

GAS:

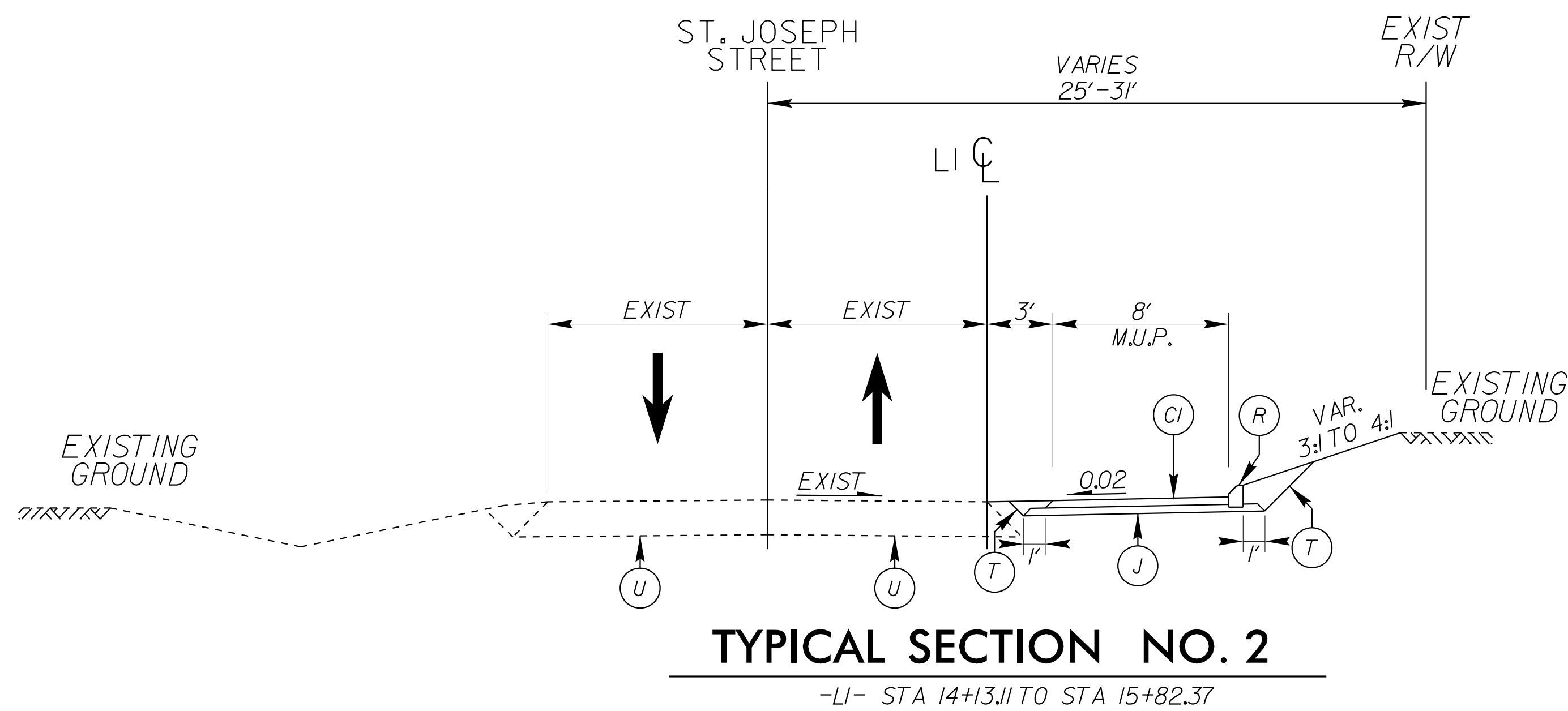
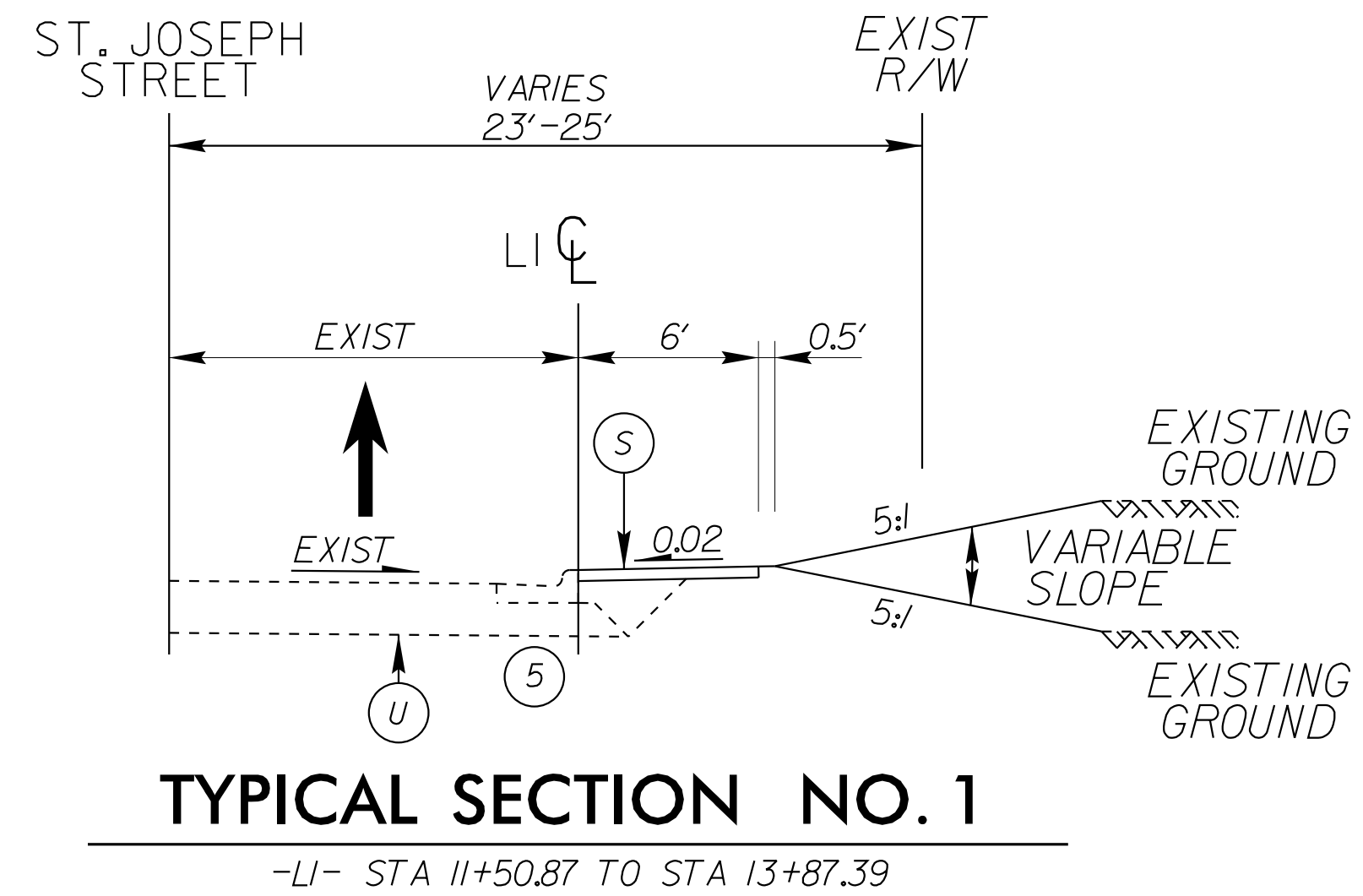
Gas Valve	
Gas Meter	
U/G Gas Line Test Hole (SUE - LOS A)*	
U/G Gas Line (SUE - LOS B)*	
U/G Gas Line (SUE - LOS C)*	
U/G Gas Line (SUE - LOS D)*	
Above Ground Gas Line	

SANITARY SEWER:

Sanitary Sewer Manhole	
Sanitary Sewer Cleanout	
U/G Sanitary Sewer Line	
Above Ground Sanitary Sewer	
SS Force Main Line Test Hole (SUE - LOS A)*	
SS Force Main Line (SUE - LOS B)*	
SS Force Main Line (SUE - LOS C)*	
SS Force Main Line (SUE - LOS D)*	

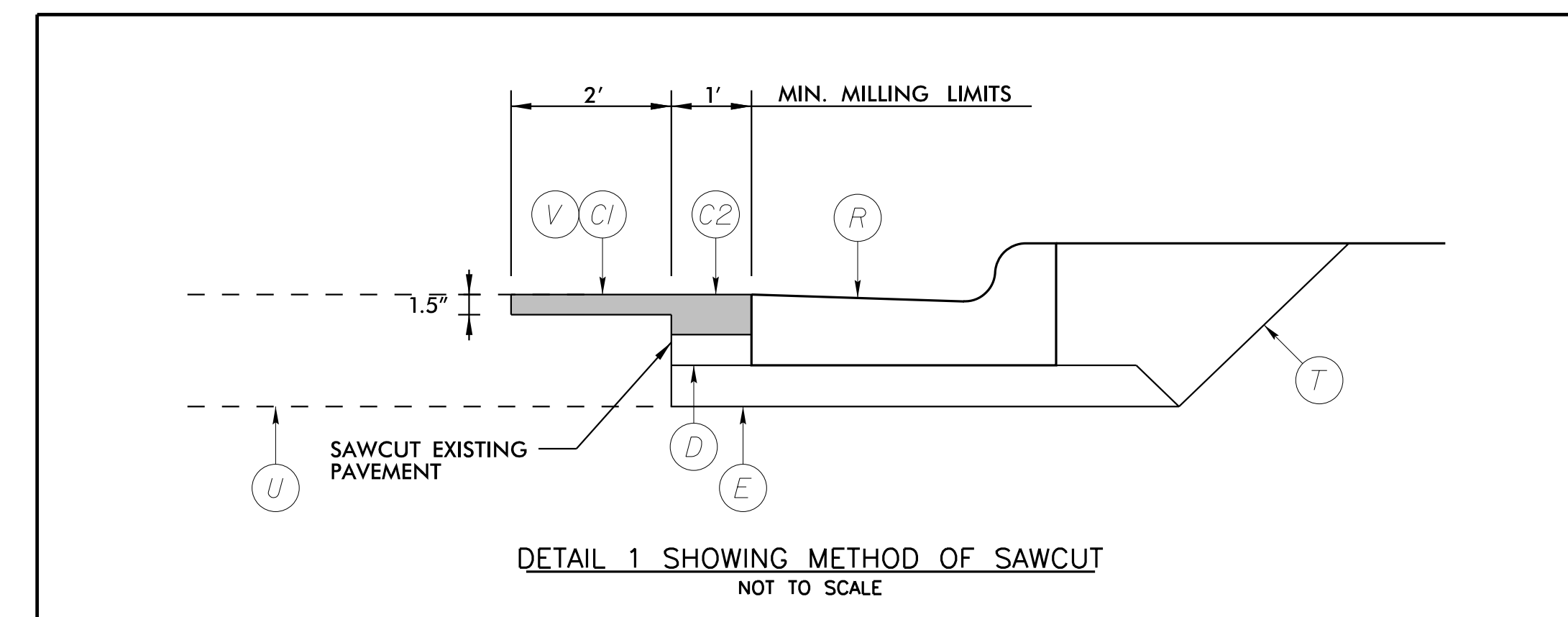
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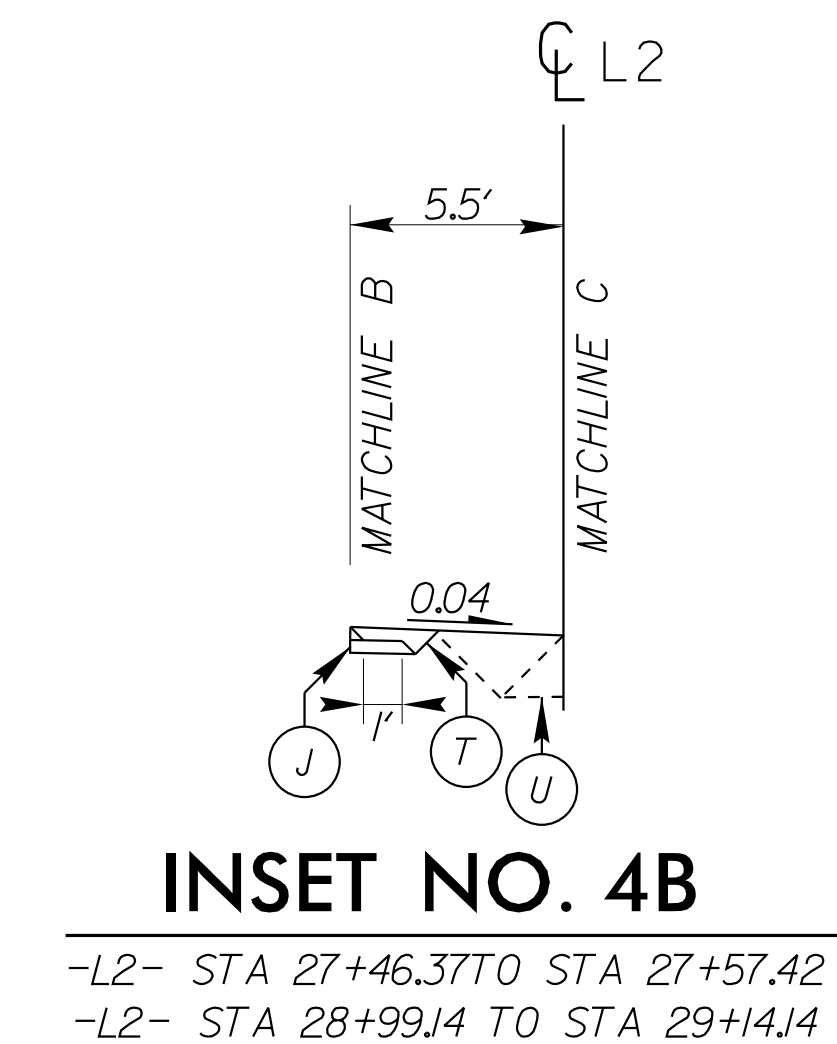
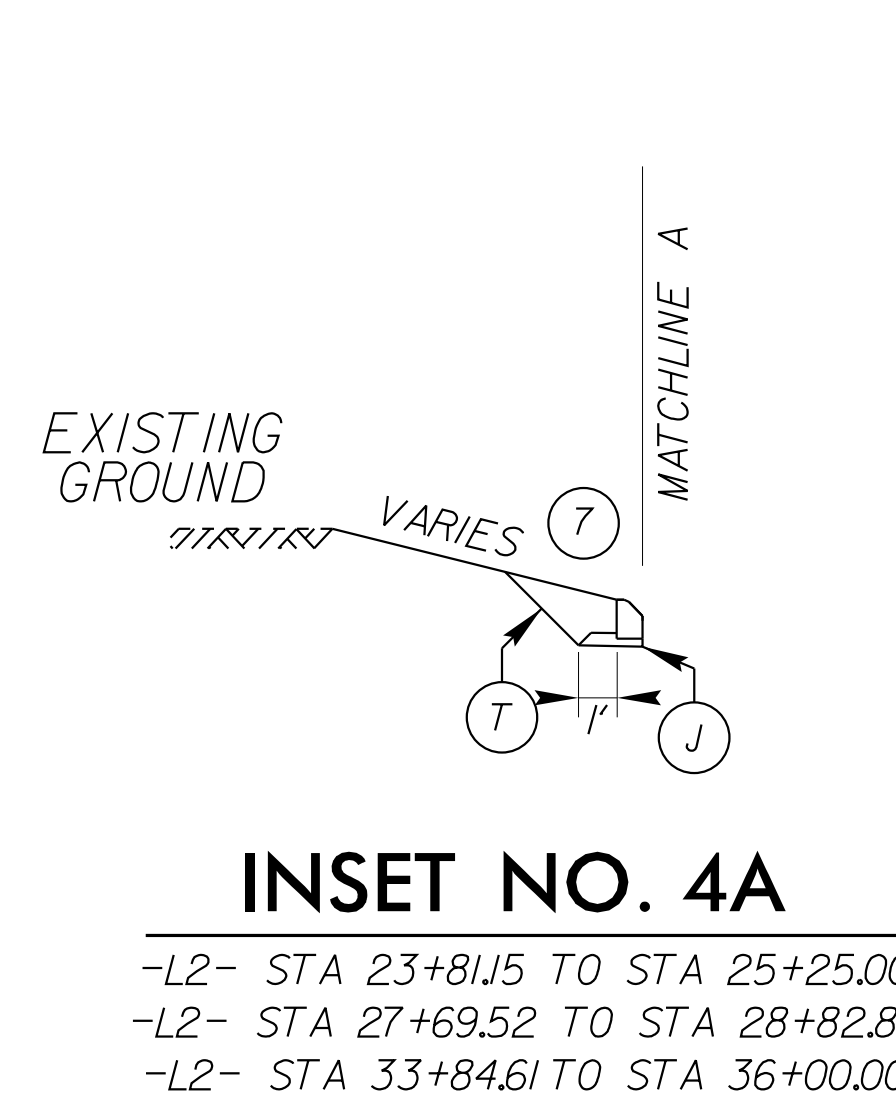
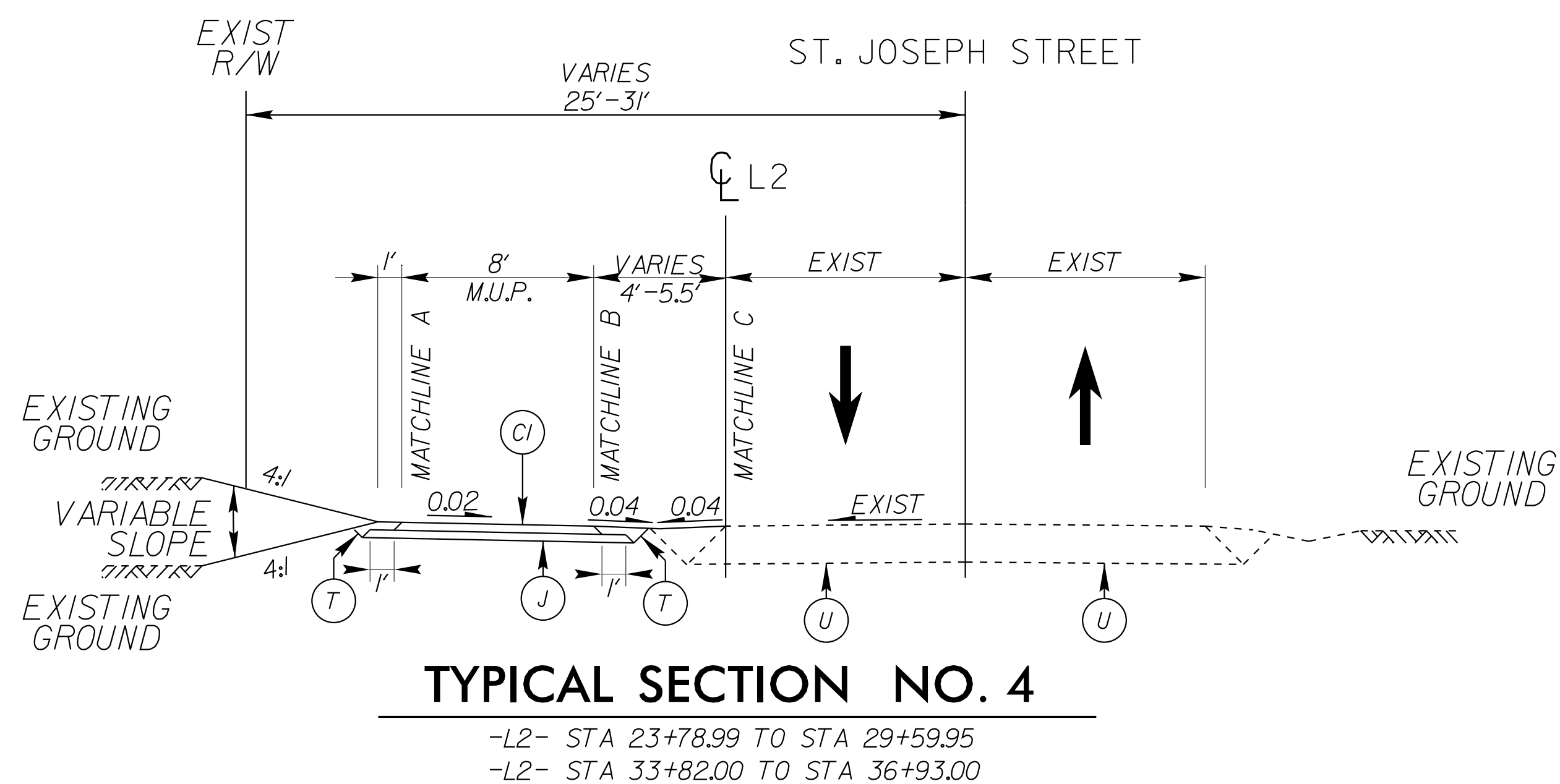
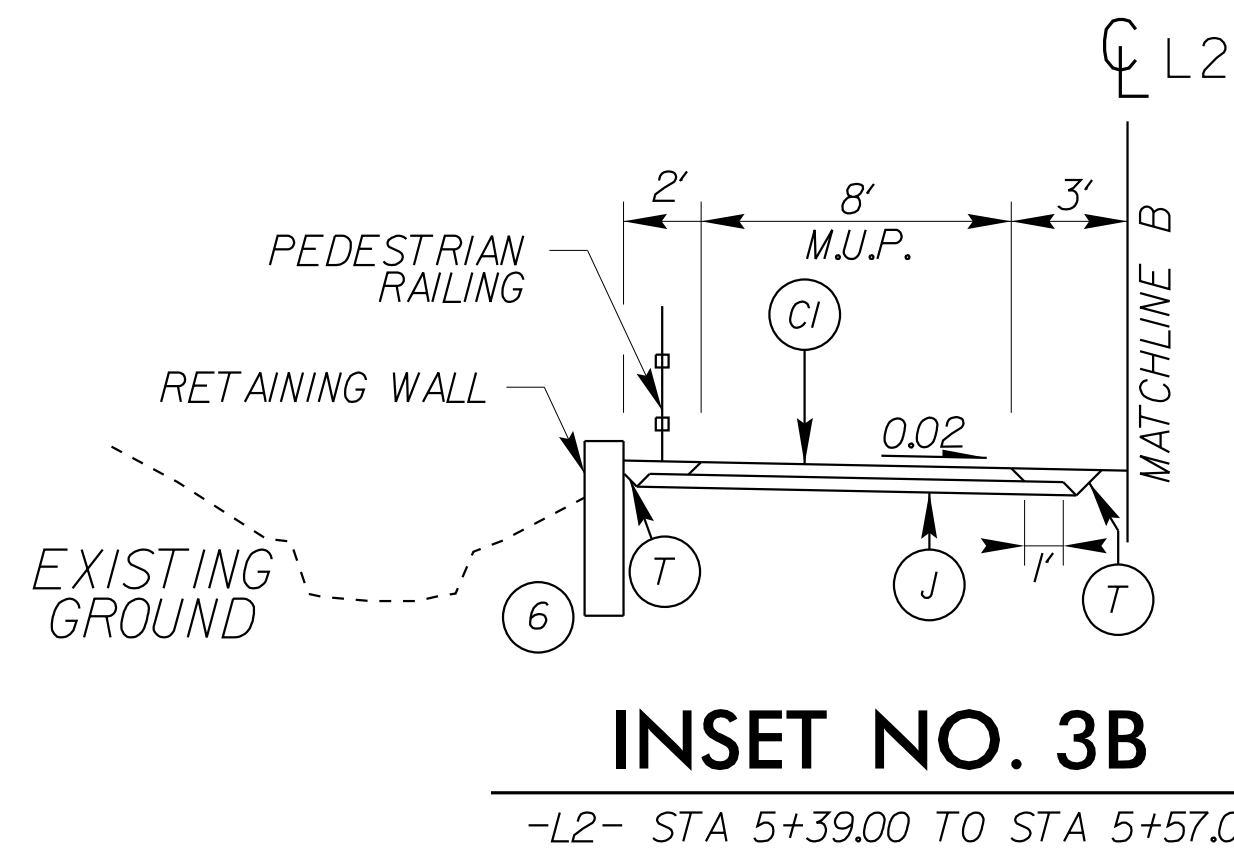
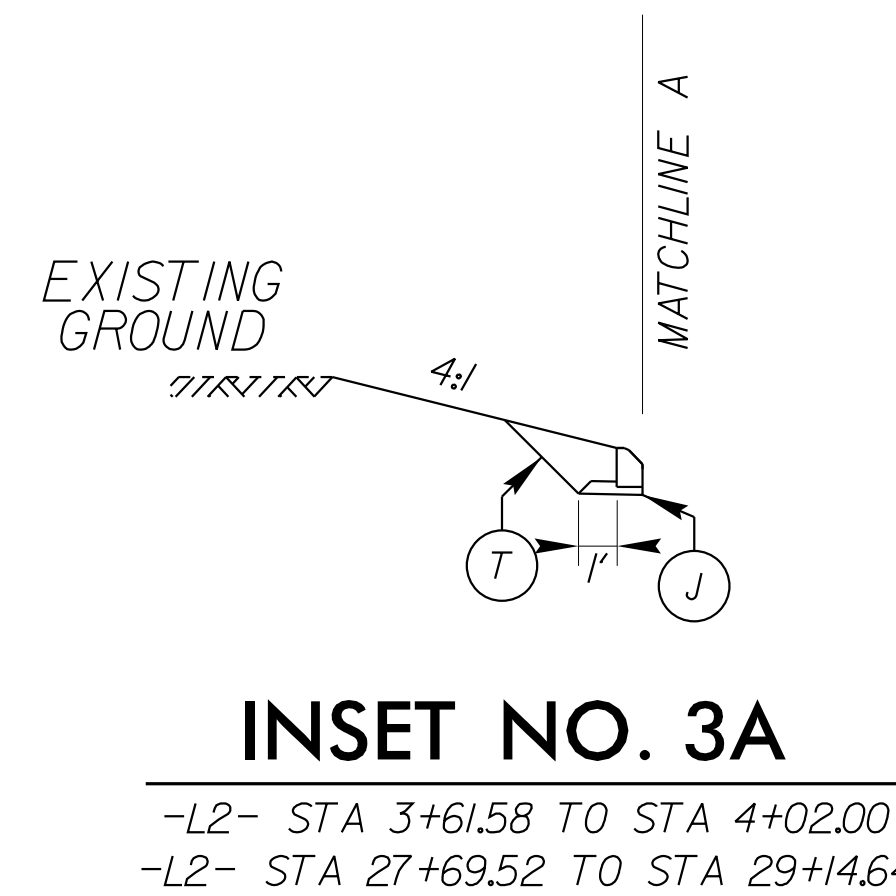
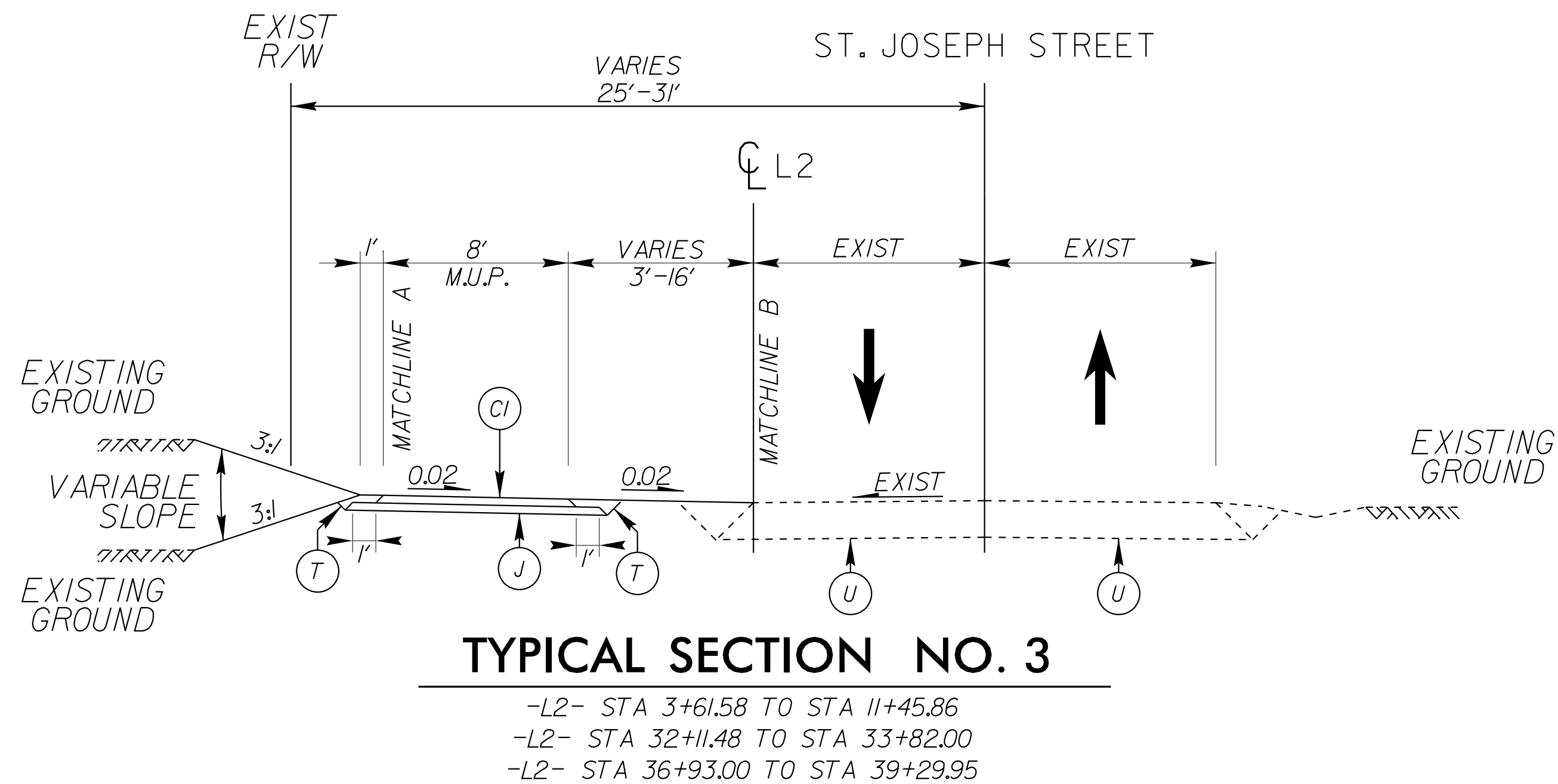
Utility Pole	
Utility Pole with Base	
Utility Located Object	
Utility Traffic Signal Box	
Utility Unknown U/G Line (SUE - LOS B)*	
U/G Tank; Water, Gas, Oil	
Underground Storage Tank, Approx. Loc.	
A/G Tank; Water, Gas, Oil	
Geoenvironmental Boring	
Abandoned According to Utility Records	
End of Information	



PRELIMINARY PAVEMENT DESIGN	
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
D	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
J	PROPOSED 4" AGGREGATE BASE COURSE
R	8"x12" CONCRETE CURB
S	PROPOSED 4" CONCRETE SIDEWALK
T	PROPOSED COMPACTED EARTH MATERIAL
V	PROPOSED 1.5" MILLING
U	EXISTING ASPHALT PAVEMENT

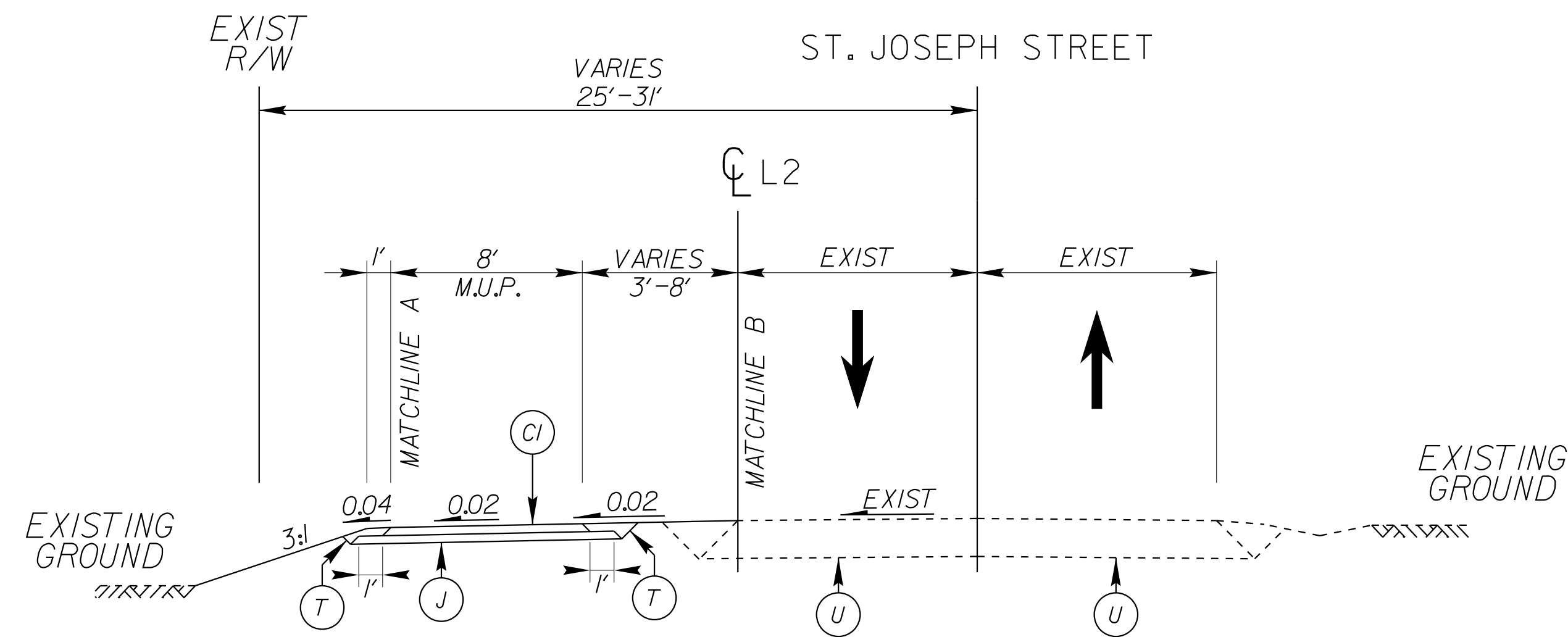
- TYPICAL SECTION NOTES:**
1. SEE INSETS FOR EXCEPTIONS TO STATION LIMITS
 2. PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE NOTED
 3. SEE CROSS SECTIONS FOR SPECIAL DITCH ELEVATIONS
 4. SEE CROSS SECTIONS AND PLAN SHEETS FOR VARIABLE SUPERELEVATIONS
 5. SAWCUT 1' MINIMUM SEE DETAIL 1 ON SHEET 2A-1.
 6. RETAINING WALL TYPES TO BE DETERMINED UPON COMPLETION OF GEOTECHNICAL INVESTIGATIONS.
 7. SEE CROSS SECTIONS FOR VARIABLE SLOPES.





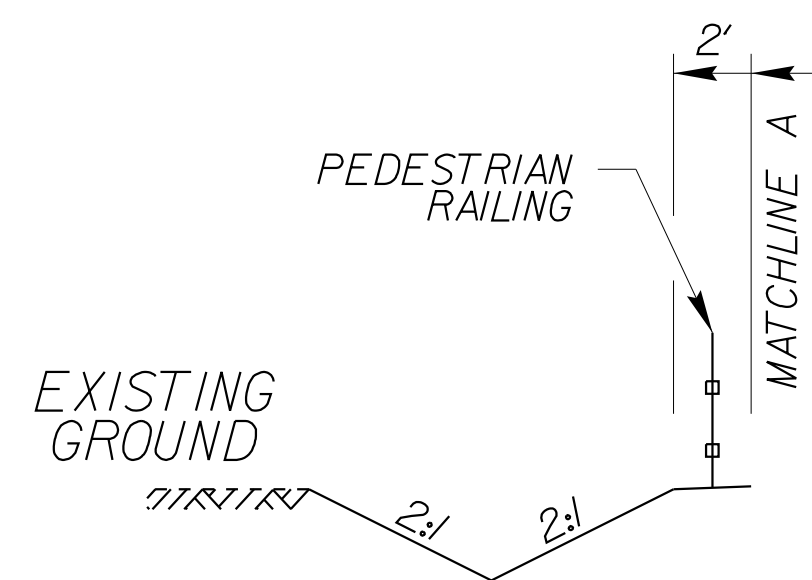
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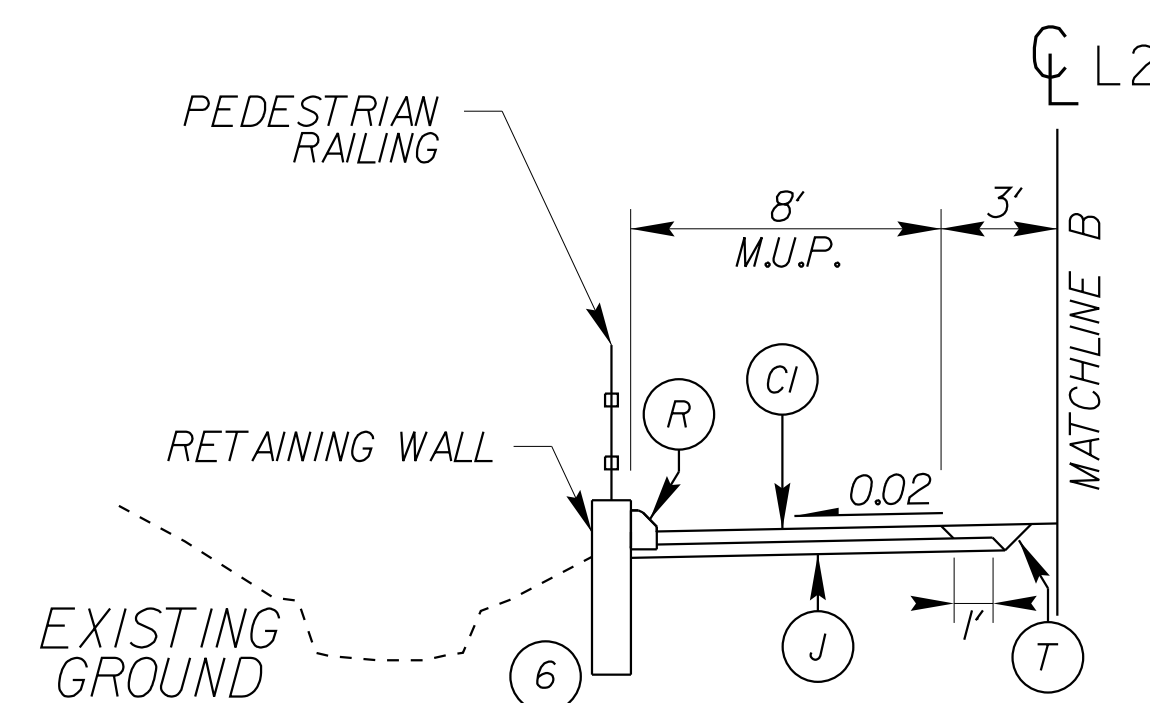
TYPICAL SECTION NO. 4

-L2- STA 3+61.58 TO STA 11+45.86
 -L2- STA 29+59.95 TO STA 31+76.24
 -L2- STA 39+29.95 TO STA 42+06.42



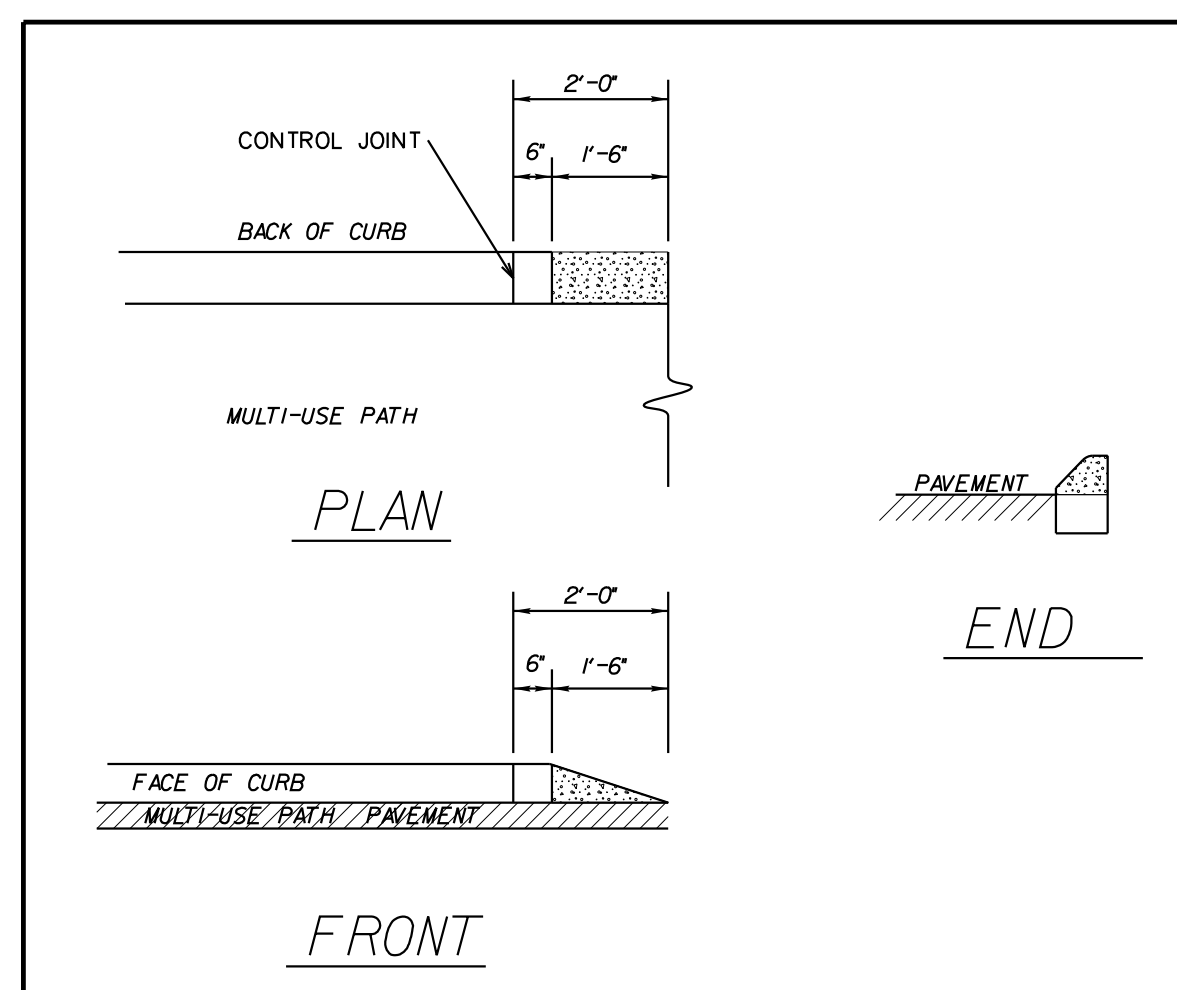
INSET NO. 4A

-L2- STA 39+20.00 TO STA 40+09.00
 -L2- STA 40+34.00 TO STA 41+66.00



INSET NO. 4B

-L2- STA 31+31.00 TO STA 31+53.50
 -L2- STA 41+66.00 TO STA 42+06.42



**DETAIL 2
 8" x 12" CURB END
 TREATMENT**

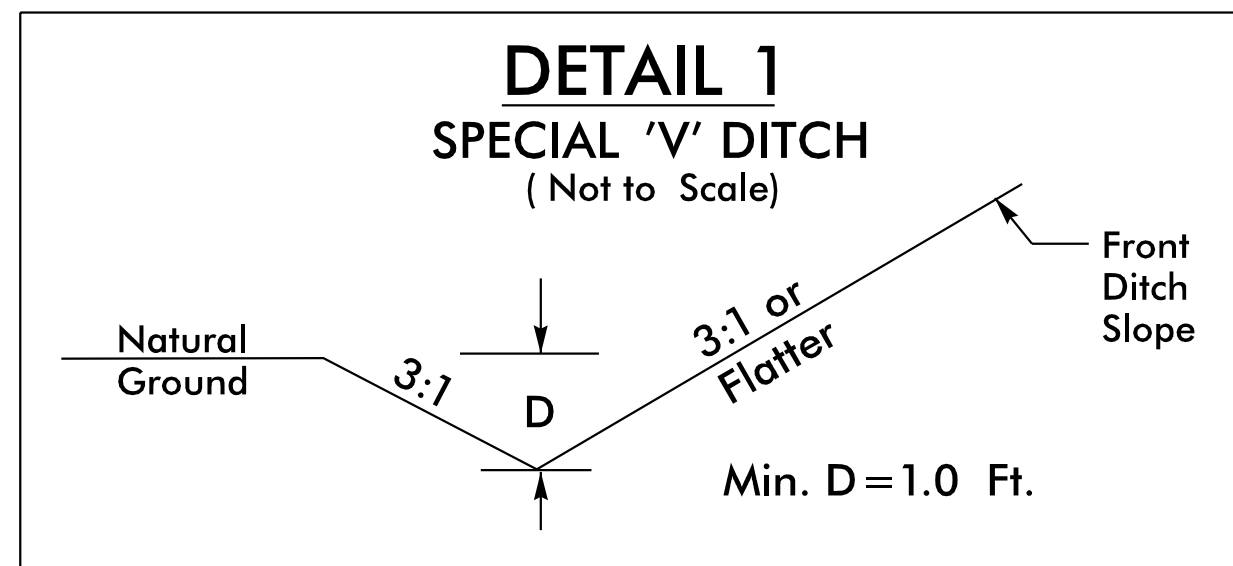
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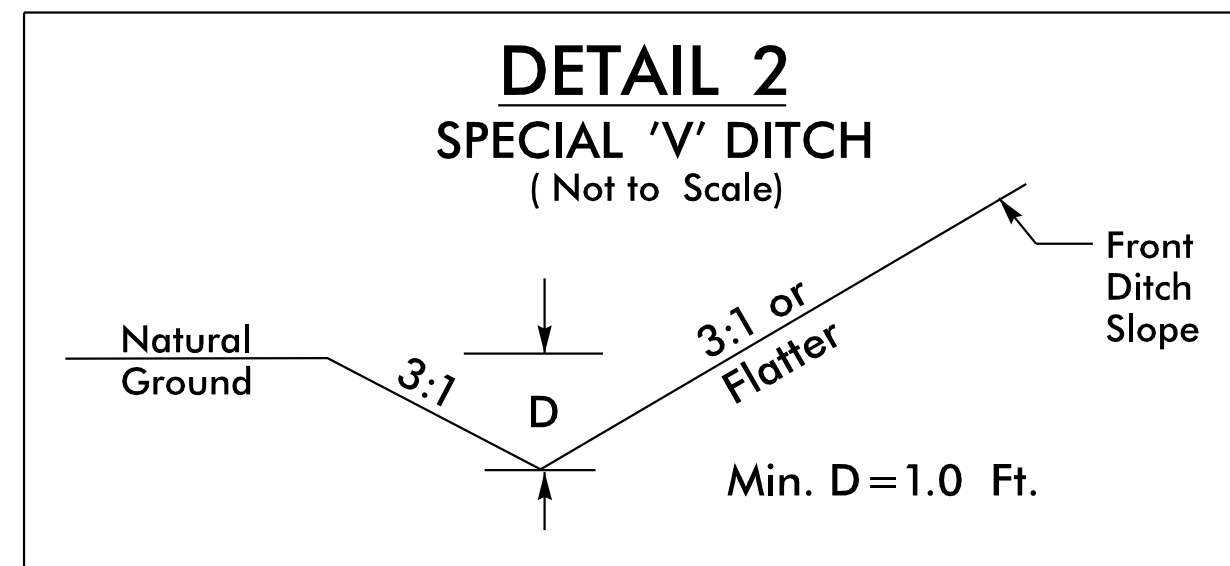
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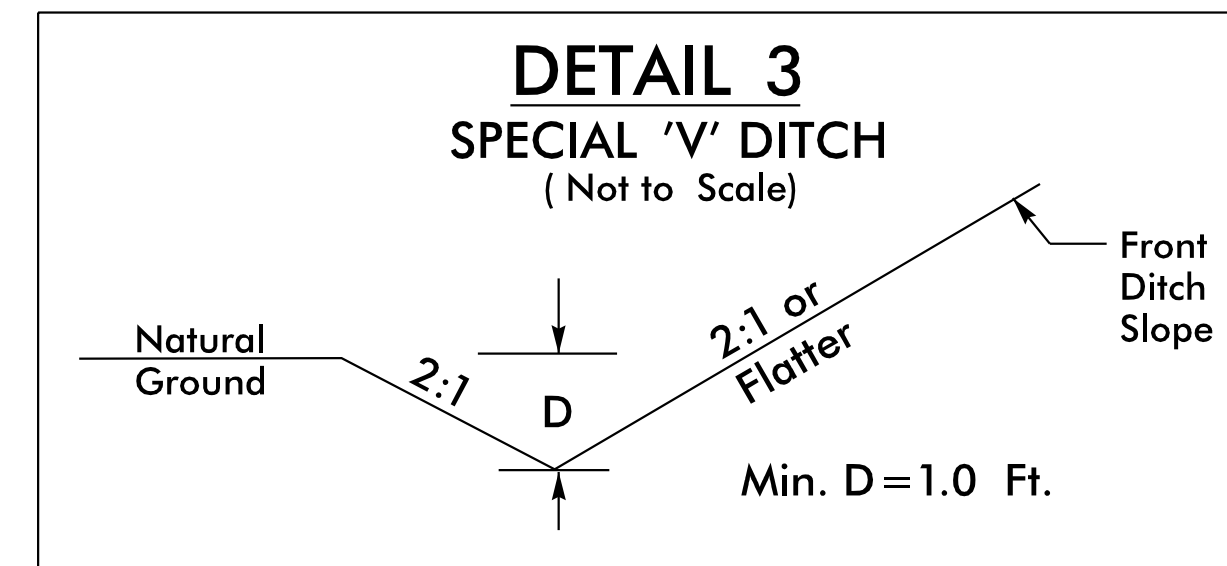
PROJECT REFERENCE NO. <i>EB-6039</i>	SHEET NO. <i>2D-1</i>
ROADWAY DESIGN ENGINEER	
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FROM -L2- STA. 6+56 TO STA. 6+90 LT



FROM -L2- STA. 32+25 TO STA. 33+40 LT



FROM -L2- STA. 39+20 TO STA. 41+70 LT

6/21/2024

CONSTRUCTION NOTES

- 1 ADJUST EXISTING MANHOLES
- 2 SEE HEADER CURB END TREATMENT SHEET 2A-3 DETAIL 2
- 3 TIE PROPOSED 8"x12" CURB TO EXISTING CURB & GUTTER

Kimley Horn

421 FAYETTEVILLE STREET, SUITE 600
RALEIGH, NC 27601

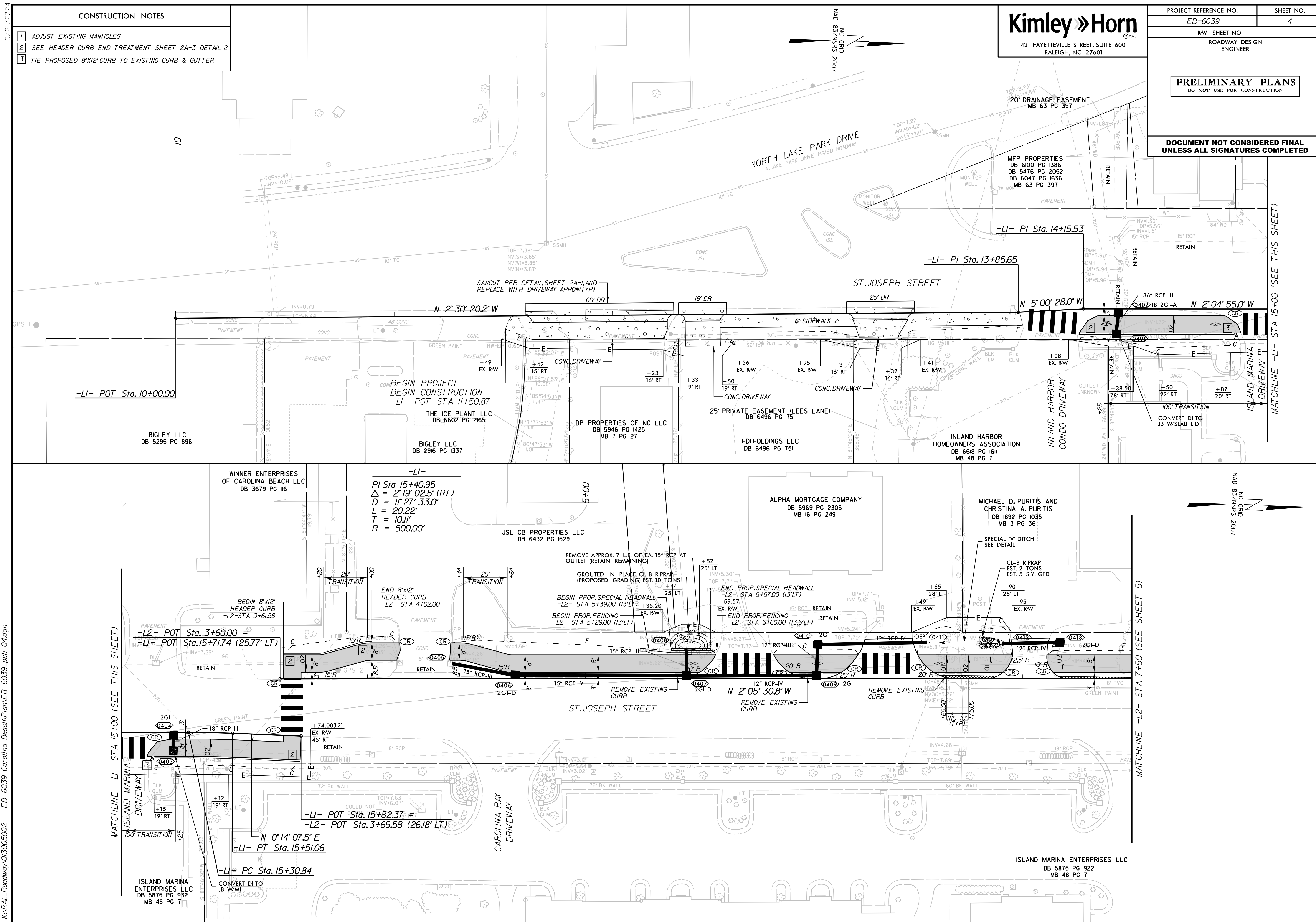
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EB-6039 4

RW SHEET NO.
ROADWAY DESIGN
ENGINEER

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K:\PAL_Roadway\013005002 - EB-6039 Carolina Beach\Plan\EB-6039_psh-04.dgn

MATCHLINE -LI- STA 15+00 (SEE THIS SHEET)

MATCHLINE -L2- STA 7+50 (SEE SHEET 5)

6/21/2024

CONSTRUCTION NOTES

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Kimley » Horn

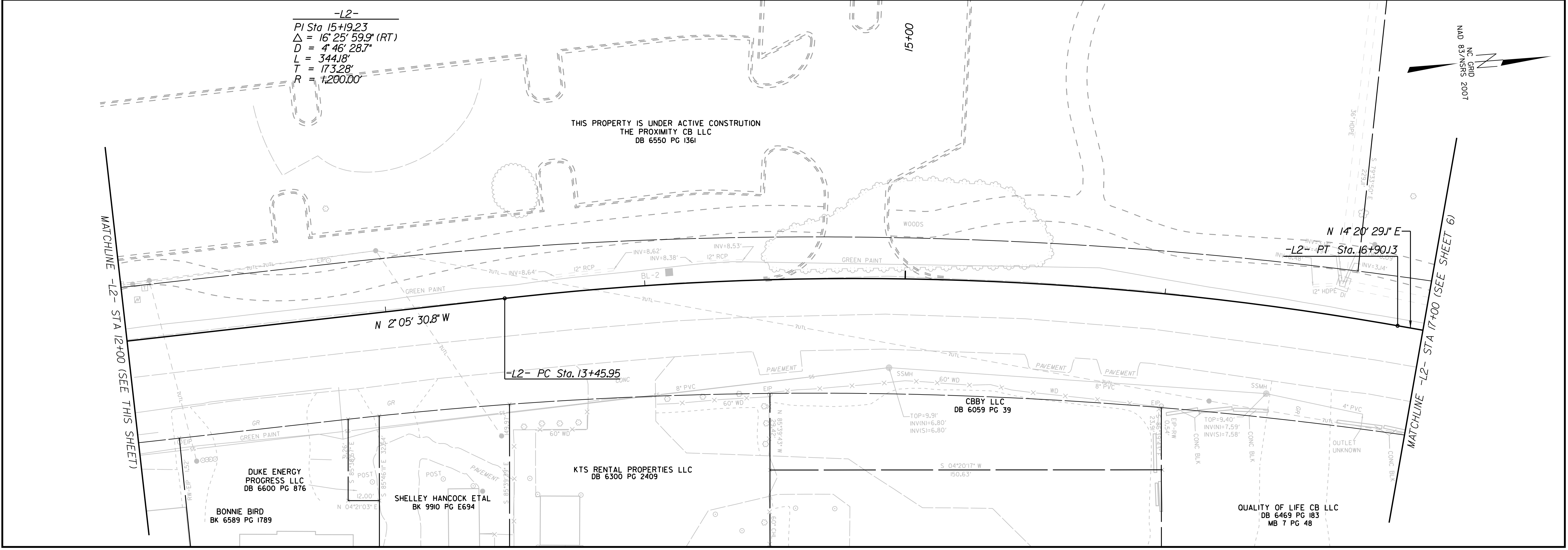
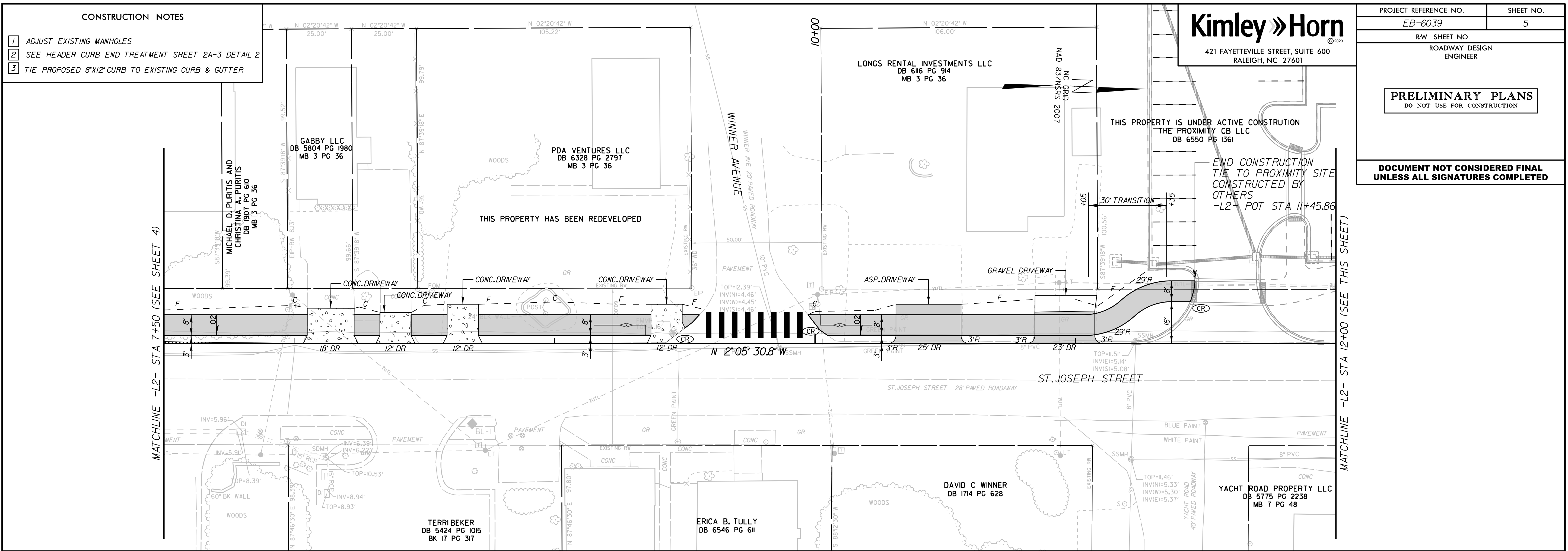
421 FAYETTEVILLE STREET, SUITE 600
RALEIGH, NC 27601

PROJECT REFERENCE NO.	SHEET NO.
EB-6039	5

RW SHEET NO.	ROADWAY DESIGN ENGINEER
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K:\PAL_Roadway\013005002 - EB-6039 Carolina Beach\Plan\EB-6039_psh-05.dgn

6/21/2024

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CONSTRUCTION NOTES

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Kimley » Horn

421 FAYETTEVILLE STREET, SUITE 600
RALEIGH, NC 27601

PROJECT REFERENCE NO. **EB-6039** SHEET NO. **6**

RW SHEET NO.
ROADWAY DESIGN
ENGINEER

PRELIMINARY PLANS
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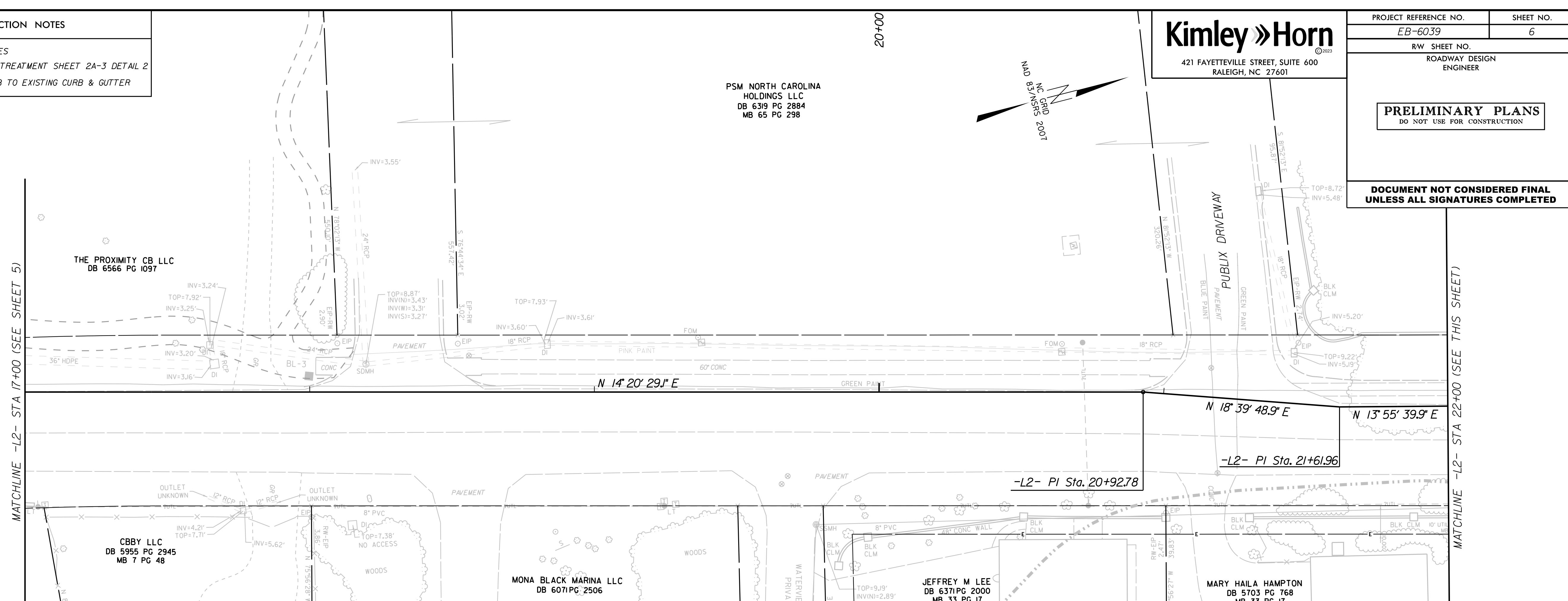
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PSM NORTH CAROLINA
HOLDINGS LLC
DB 6319 PG 2884
MB 65 PG 298

NAD 83/NSRS
NC GRID 2001

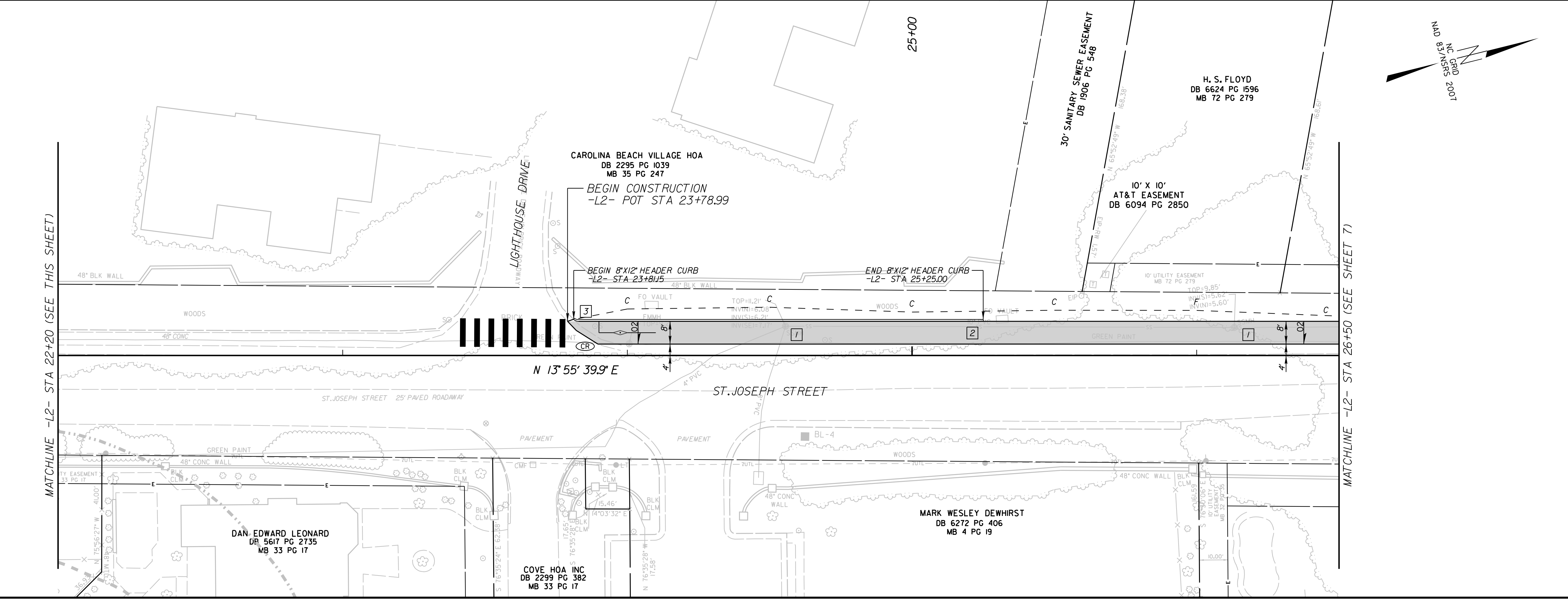
MATCHLINE -L2- STA 17+00 (SEE SHEET 5)

MATCHLINE -L2- STA 22+00 (SEE THIS SHEET)



MATCHLINE -L2- STA 22+20 (SEE THIS SHEET)

MATCHLINE -L2- STA 26+50 (SEE SHEET 7)



NAD 83/NSRS
NC GRID 2001

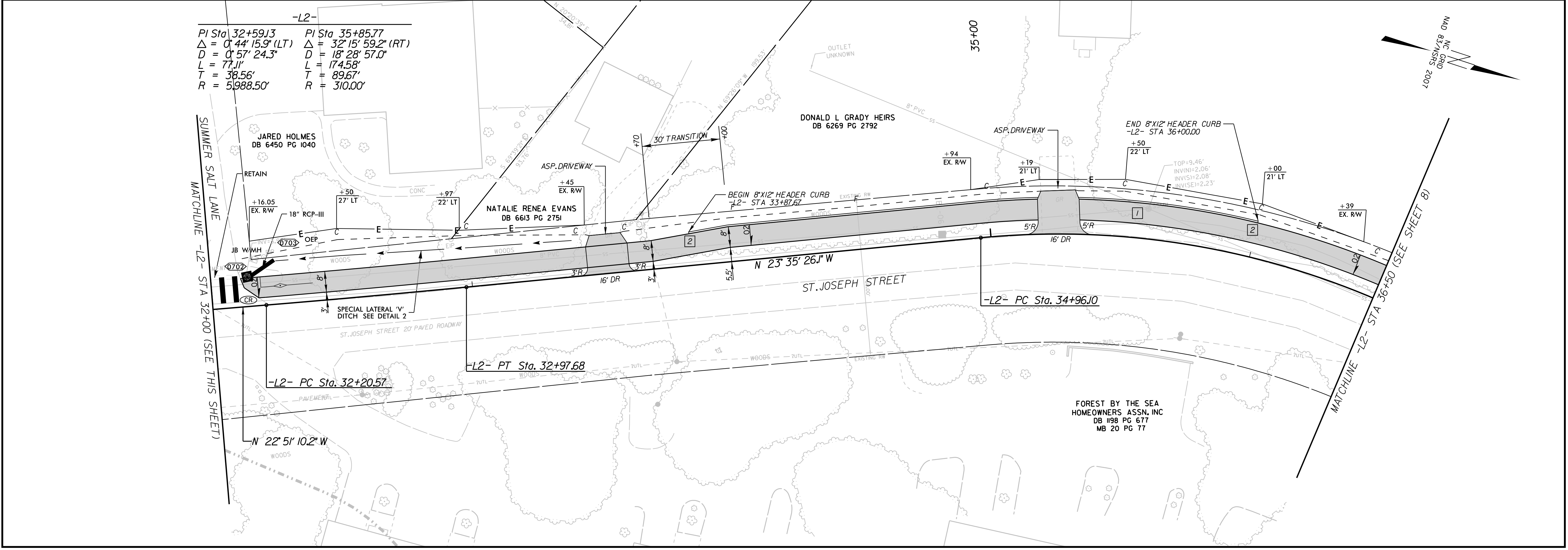
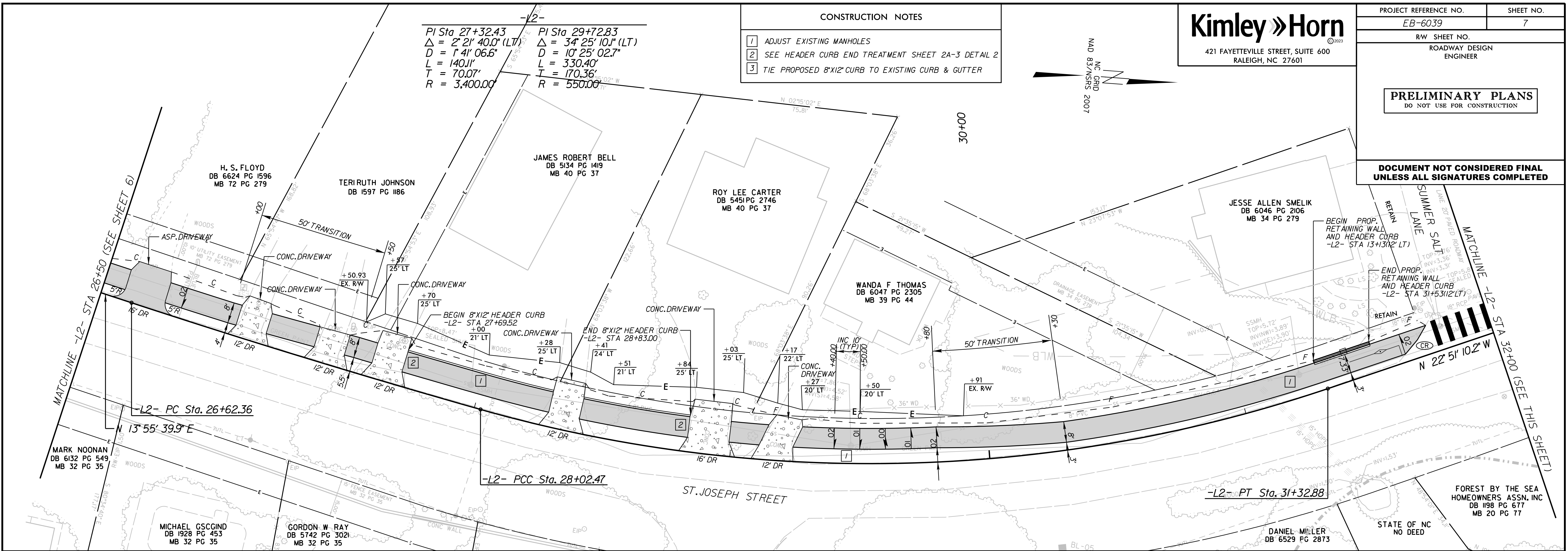
6/21/2024

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CONSTRUCTION NOTES	
1	ADJUST EXISTING MANHOLES
2	SEE HEADER CURB END TREATMENT SHEET 2A-3 DETAIL 2
3	TIE PROPOSED 8"X12" CURB TO EXISTING CURB & GUTTER

Kimley » Horn
 421 FAYETTEVILLE STREET, SUITE 600
 RALEIGH, NC 27601

PROJECT REFERENCE NO. EB-6039	SHEET NO. 7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



PI Sta 27+32.43
 $\Delta = 2' 21' 40.0''$ (LT)
 $D = 1' 41' 06.6''$
 $L = 140.11'$
 $T = 70.07'$
 $R = 3,400.00'$

PI Sta 29+72.83
 $\Delta = 34' 25' 10.1''$ (LT)
 $D = 10' 25' 02.7''$
 $L = 330.40'$
 $T = 170.36'$
 $R = 550.00'$

PI Sta 32+59.13
 $\Delta = 0' 44' 15.9''$ (LT)
 $D = 0' 57' 24.3''$
 $L = 77.11'$
 $T = 38.56'$
 $R = 5,988.50'$

PI Sta 35+85.77
 $\Delta = 32' 15' 59.2''$ (RT)
 $D = 18' 28' 57.0''$
 $L = 174.58'$
 $T = 89.67'$
 $R = 310.00'$

6/21/2024

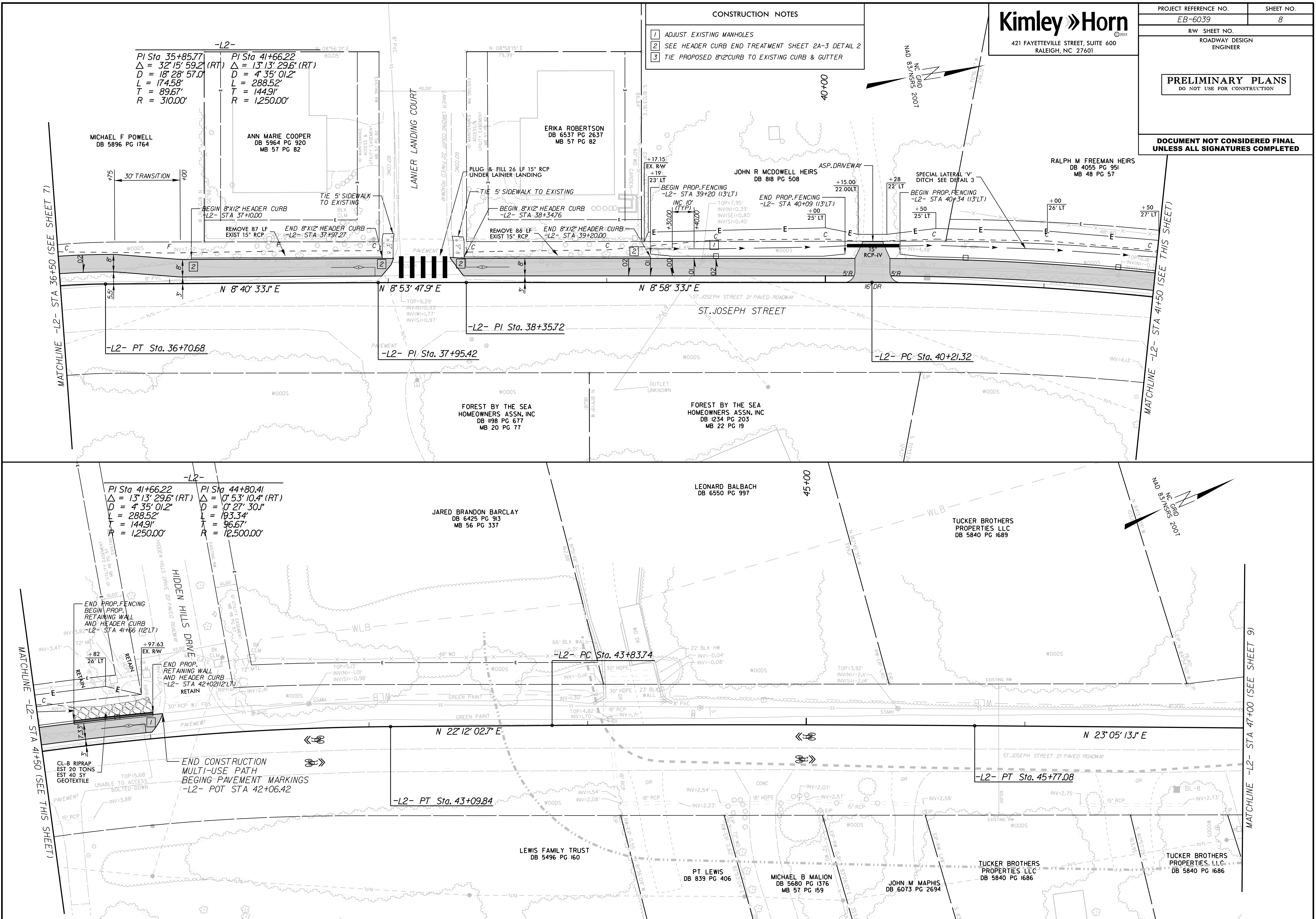
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CONSTRUCTION NOTES

- 1 ADJUST EXISTING MANHOLES
- 2 SEE HEADER CURB END TREATMENT SHEET 2A-3 DETAIL 2
- 3 TIE PROPOSED 8"X12" CURB TO EXISTING CURB & GUTTER

Kimley Horn
 421 FAYETTEVILLE STREET, SUITE 600
 RALEIGH, NC 27601

PROJECT REFERENCE NO. EB-6039	SHEET NO. 8
RW SHEET NO. ROADWAY DESIGN ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCHLINE -L2- STA 36+50 (SEE SHEET 7)

MATCHLINE -L2- STA 47+00 (SEE SHEET 9)

-L2-
 PI Sta 35+85.77
 $\Delta = 32' 15'' 59.2$ (RT)
 $D = 18' 28'' 57.0$
 $L = 174.58'$
 $T = 89.67'$
 $R = 310.00'$

ANN MARIE COOPER
 DB 5964 PG 920
 MB 57 PG 82

ERIKA ROBERTSON
 DB 6537 PG 2637
 MB 57 PG 82

JOHN R MCDOWELL HEIRS
 DB 818 PG 508

RALPH M FREEMAN HEIRS
 DB 4055 PG 951
 MB 48 PG 57

FOREST BY THE SEA
 HOMEOWNERS ASSN, INC
 DB 198 PG 677
 MB 20 PG 77

FOREST BY THE SEA
 HOMEOWNERS ASSN, INC
 DB 1234 PG 203
 MB 22 PG 19

JARED BRANDON BARCLAY
 DB 6425 PG 913
 MB 56 PG 337

LEONARD BALBACH
 DB 6550 PG 997

TUCKER BROTHERS
 PROPERTIES LLC
 DB 5840 PG 1689

LEWIS FAMILY TRUST
 DB 5496 PG 160

PT LEWIS
 DB 839 PG 406

MICHAEL B MALION
 DB 5680 PG 1376
 MB 57 PG 159

JOHN W MAPHIS
 DB 6073 PG 2694

TUCKER BROTHERS
 PROPERTIES LLC
 DB 5840 PG 1686

TUCKER BROTHERS
 PROPERTIES, LLC
 DB 5840 PG 1686

MATCHLINE -L2- STA 41+50 (SEE THIS SHEET)

MATCHLINE -L2- STA 47+00 (SEE SHEET 9)

6/21/2024

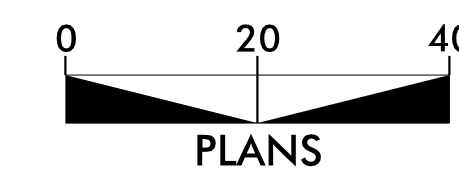
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CONSTRUCTION NOTES

- 1 ADJUST EXISTING MANHOLES
- 2 SEE HEADER CURB END TREATMENT SHEET 2A-3 DETAIL 2
- 3 TIE PROPOSED 8" CURB TO EXISTING CURB & GUTTER

Kimley Horn

421 FAYETTEVILLE STREET, SUITE 600
RALEIGH, NC 27601

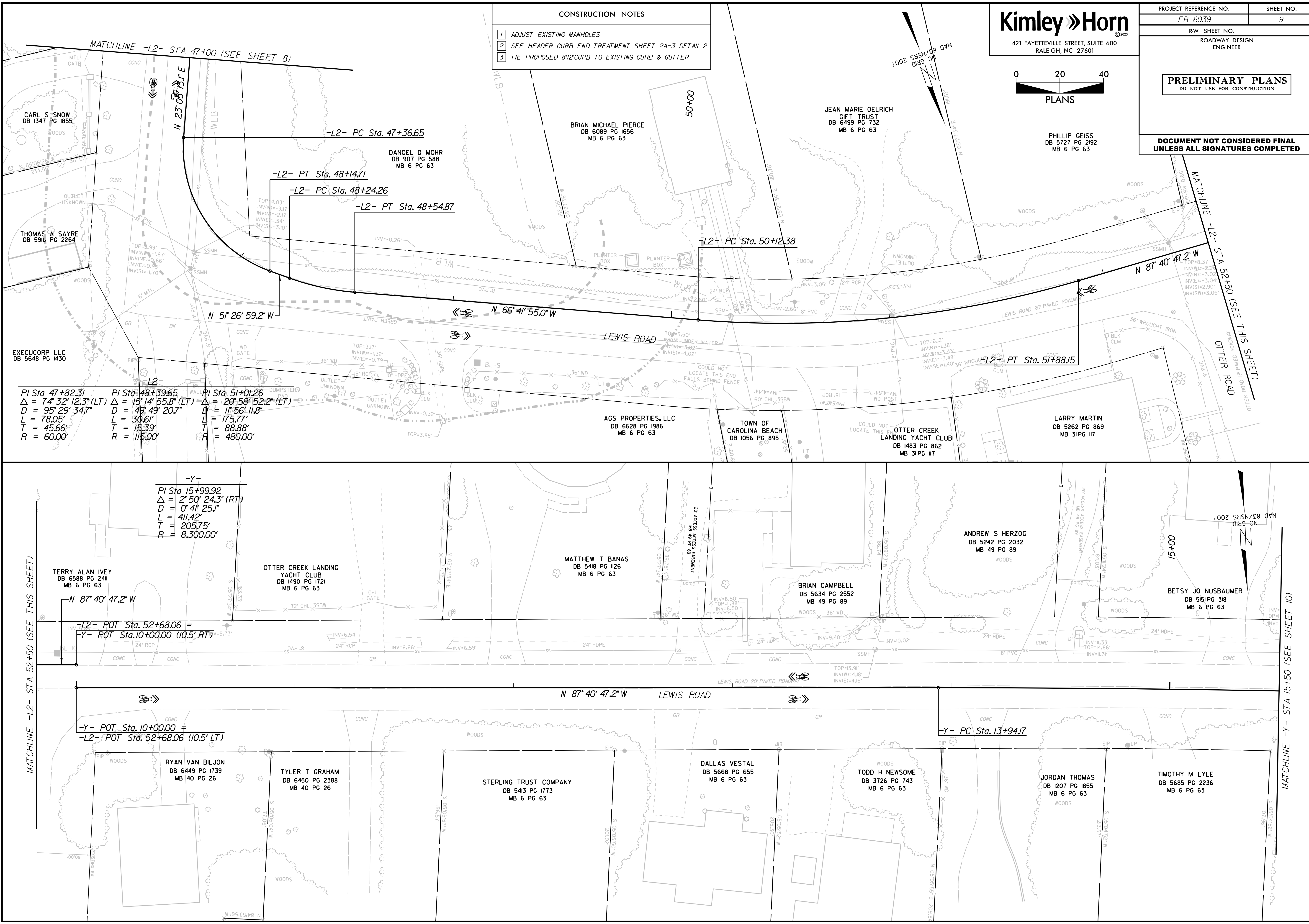


PROJECT REFERENCE NO. **EB-6039** SHEET NO. **9**

RW SHEET NO. ROADWAY DESIGN ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

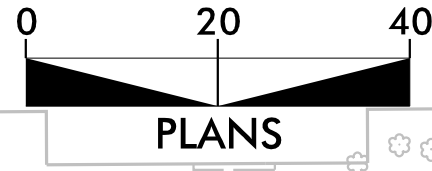


6/21/2024

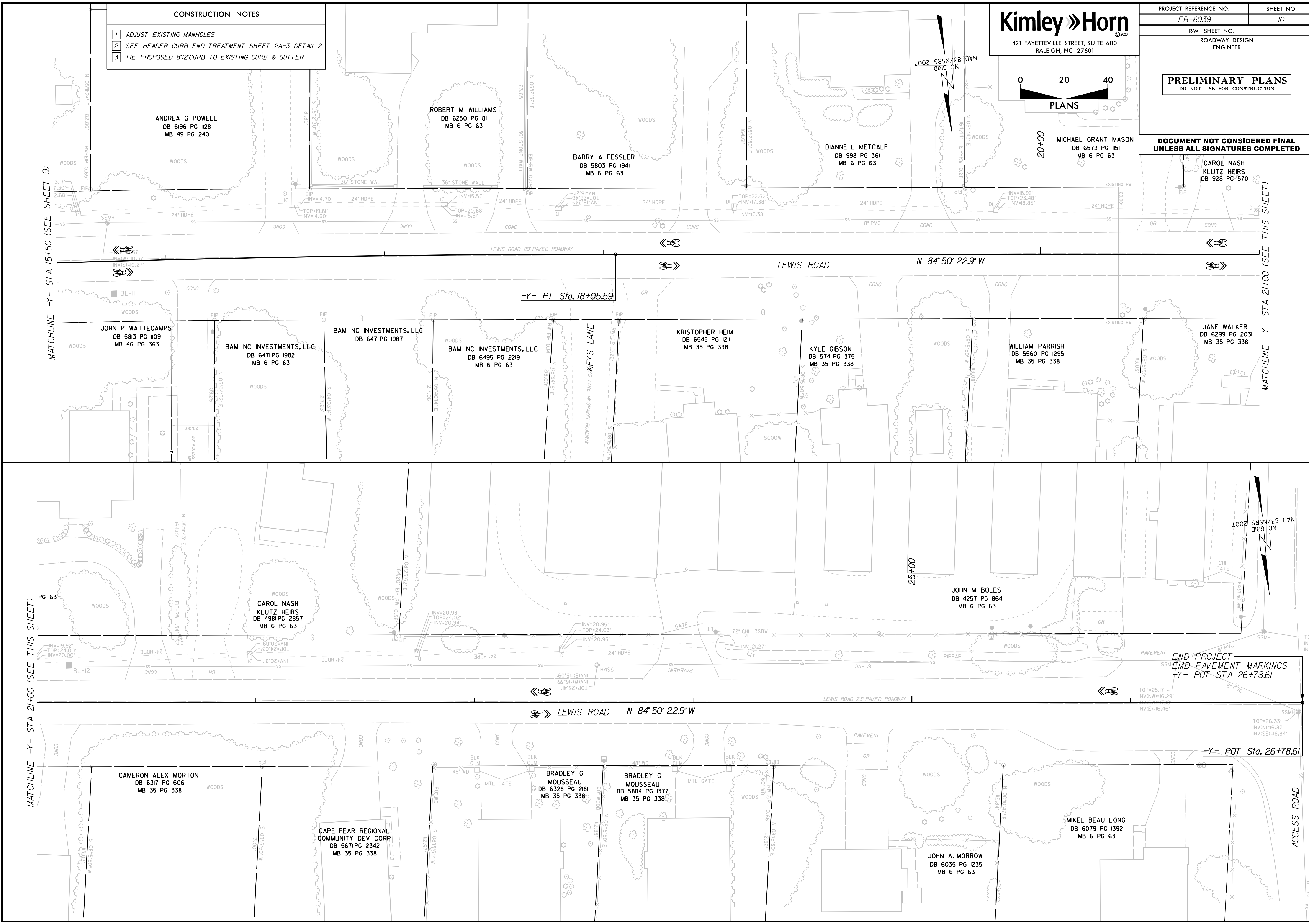
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- CONSTRUCTION NOTES**
- 1 ADJUST EXISTING MANHOLES
 - 2 SEE HEADER CURB END TREATMENT SHEET 2A-3 DETAIL 2
 - 3 TIE PROPOSED 8" CURB TO EXISTING CURB & GUTTER

Kimley » Horn
 421 FAYETTEVILLE STREET, SUITE 600
 RALEIGH, NC 27601



PROJECT REFERENCE NO. EB-6039	SHEET NO. 10
RW SHEET NO. ROADWAY DESIGN ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCHLINE -Y- STA 15+50 (SEE SHEET 9)

MATCHLINE -Y- STA 21+00 (SEE THIS SHEET)

MATCHLINE -Y- STA 21+00 (SEE THIS SHEET)

-Y- POT Sta. 26+78.61

END PROJECT
END PAVEMENT MARKINGS
-Y- POT STA 26+78.61

ANDREA G POWELL
DB 6196 PG 1128
MB 49 PG 240

ROBERT M WILLIAMS
DB 6250 PG 81
MB 6 PG 63

BARRY A FESSLER
DB 5803 PG 1941
MB 6 PG 63

DIANNE L METCALF
DB 998 PG 361
MB 6 PG 63

MICHAEL GRANT MASON
DB 6573 PG 1151
MB 6 PG 63

CAROL NASH
KLUTZ HEIRS
DB 928 PG 570

JOHN P WATTECAMPS
DB 5813 PG 1109
MB 46 PG 363

BAM NC INVESTMENTS, LLC
DB 6471 PG 1982
MB 6 PG 63

BAM NC INVESTMENTS, LLC
DB 6471 PG 1987

BAM NC INVESTMENTS, LLC
DB 6495 PG 2219
MB 6 PG 63

KRISTOPHER HEIM
DB 6545 PG 1211
MB 35 PG 338

KYLE GIBSON
DB 5741 PG 375
MB 35 PG 338

WILLIAM PARRISH
DB 5560 PG 1295
MB 35 PG 338

JANE WALKER
DB 6299 PG 2031
MB 35 PG 338

CAROL NASH
KLUTZ HEIRS
DB 4981 PG 2857
MB 6 PG 63

JOHN M BOLES
DB 4257 PG 864
MB 6 PG 63

CAMERON ALEX MORTON
DB 6317 PG 606
MB 35 PG 338

CAPE FEAR REGIONAL
COMMUNITY DEV CORP
DB 5671 PG 2342
MB 35 PG 338

BRADLEY G
MOUSSEAU
DB 6328 PG 2181
MB 35 PG 338

BRADLEY G
MOUSSEAU
DB 5884 PG 1377
MB 35 PG 338

JOHN A. MORROW
DB 6035 PG 1235
MB 6 PG 63

MIKEL BEAU LONG
DB 6079 PG 1392
MB 6 PG 63

-Y- PT Sta. 18+05.59

LEWIS ROAD N 84° 50' 22.9" W

N 84° 50' 22.9" W

-Y- POT Sta. 26+78.61

TRANSPORTATION MANAGEMENT PLAN

EB-6039

ST JOSEPH STREET BIKE & PEDESTRIAN IMPROVEMENTS

NEW HANNOVER COUNTY

INDEX OF SHEETS

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

SHEET NO.	TITLE
TMP-1	TITLE SHEET, INDEX OF SHEETS, AND GENERAL NOTES
TMP-2	PHASING NOTES AND TYPICAL SECTIONS

TIME RESTRICTIONS:

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
ST. JOSEPH STEET LEWIS DRIVE	6:00AM TO 9:00AM AND 4:00PM TO 7:00PM MONDAY THRU SUNDAY

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME
ST. JOSEPH STEET LEWIS DRIVE

HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

LANE AND SHOULDER CLOSURE REQUIREMENTS:

- C) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 6-15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.

PAVEMENT EDGE DROP OFF REQUIREMENTS:

- F) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:
- BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.
- BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.
- BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

TRAFFIC PATTERN ALTERATIONS:

- G) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING:

- H) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- I) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

TRAFFIC CONTROL DEVICES:

- J) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES), AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

MISCELLANEOUS:

- K) ALL CURB RAMP LOCATIONS SHALL BE DERIVED FROM STATIONING SHOWN ON PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER IN COORDINATION WITH THE TOWN.
- L) CONTRACTOR TO MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES DURING CONSTRUCTION.

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DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

APPROVED: _____ DATE: _____

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



Kimley»Horn

TEMPORARY TRAFFIC CONTROL PLAN

ST. JOSEPH STEET

PHASING NOTES

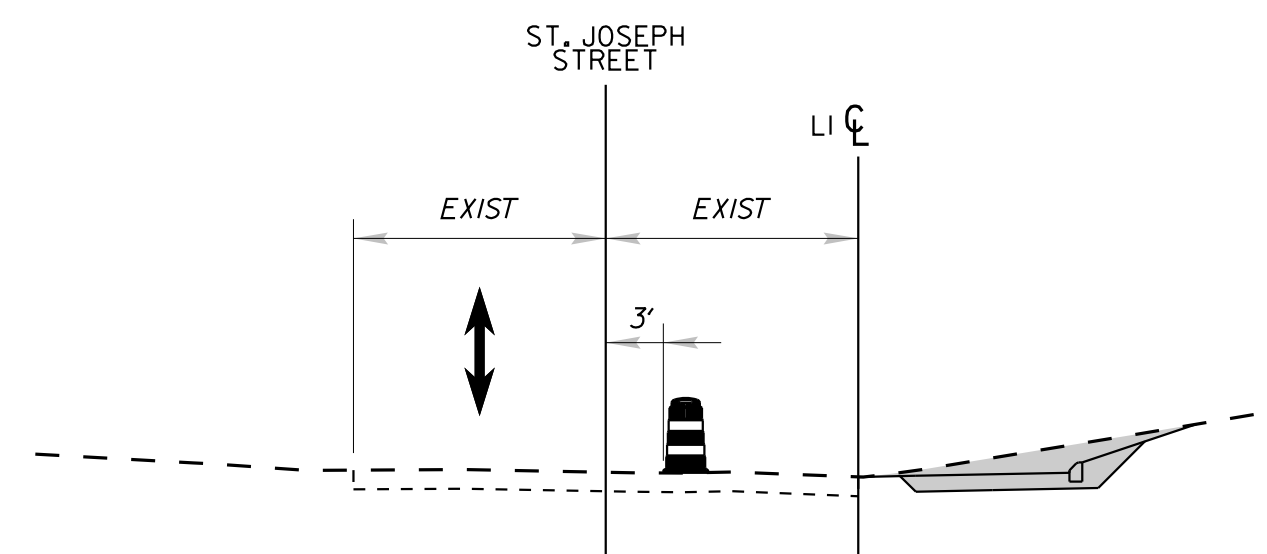
STEP 1

THE CONTRACTOR SHALL PLACE ALL ADVANCE WARNING SIGNS PRIOR TO BEGINNING WORK ACCORDING TO NCDOT STANDARD DRAWING NO. 1101.01. SIGNS SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED.

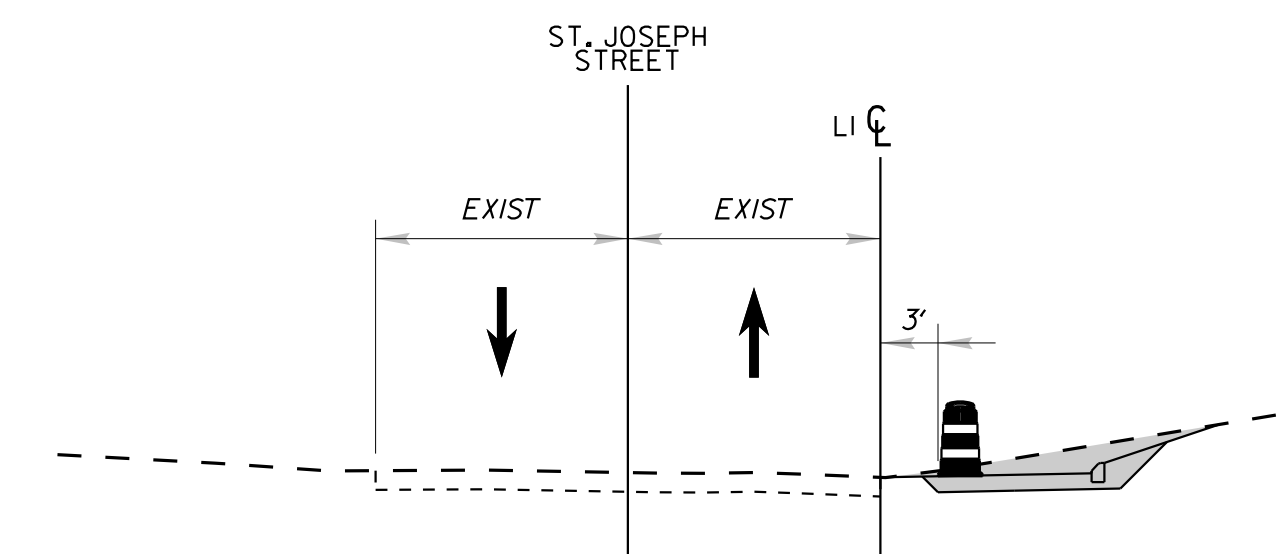
STEP 2

WHILE MAINTAINING EXISTING TRAFFIC AND USING NCDOT STANDARD DRAWING 1101.02 FOR TEMPORARY LANE CLOSURES WITH FLAGGER OPERATIONS AS NEEDED, THE CONTRACTOR SHALL CONSTRUCT PROPOSED IMPROVEMENTS ON ST JOSEPH STREET INCLUDING, BUT NOT LIMITED TO, GRADING, PAVING, DRAINAGE INSTALLATION, PAVEMENT MARKING, AND SIGNING.

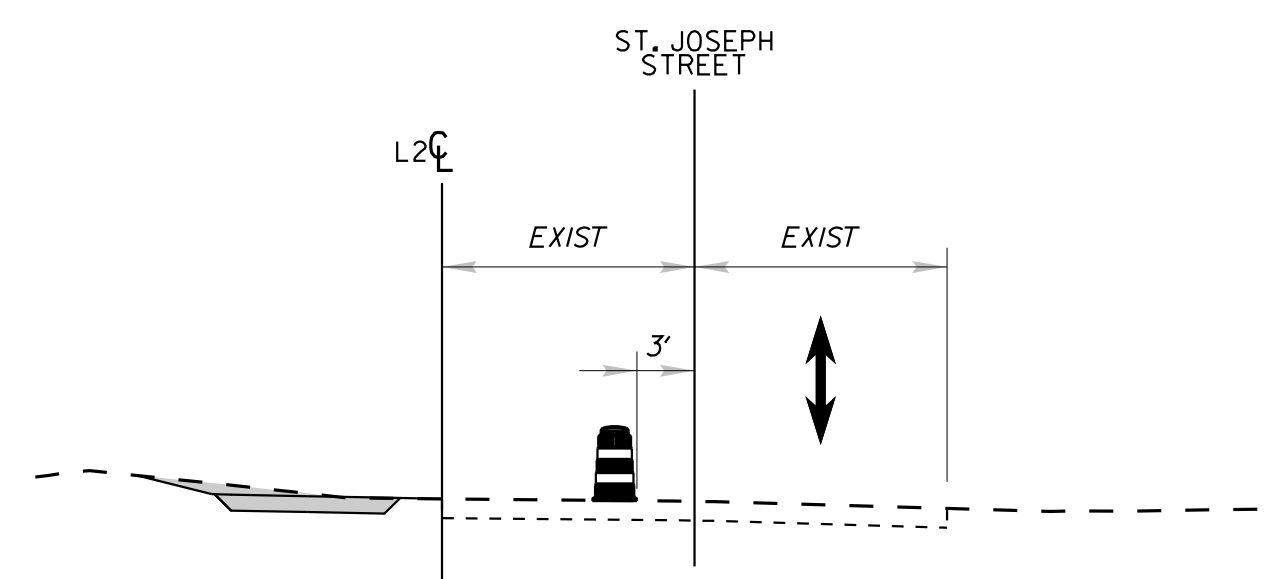
TEMPORARY LANE CLOSURE
TRAFFIC PATTERN
(NCDOT STD. 1101.02)



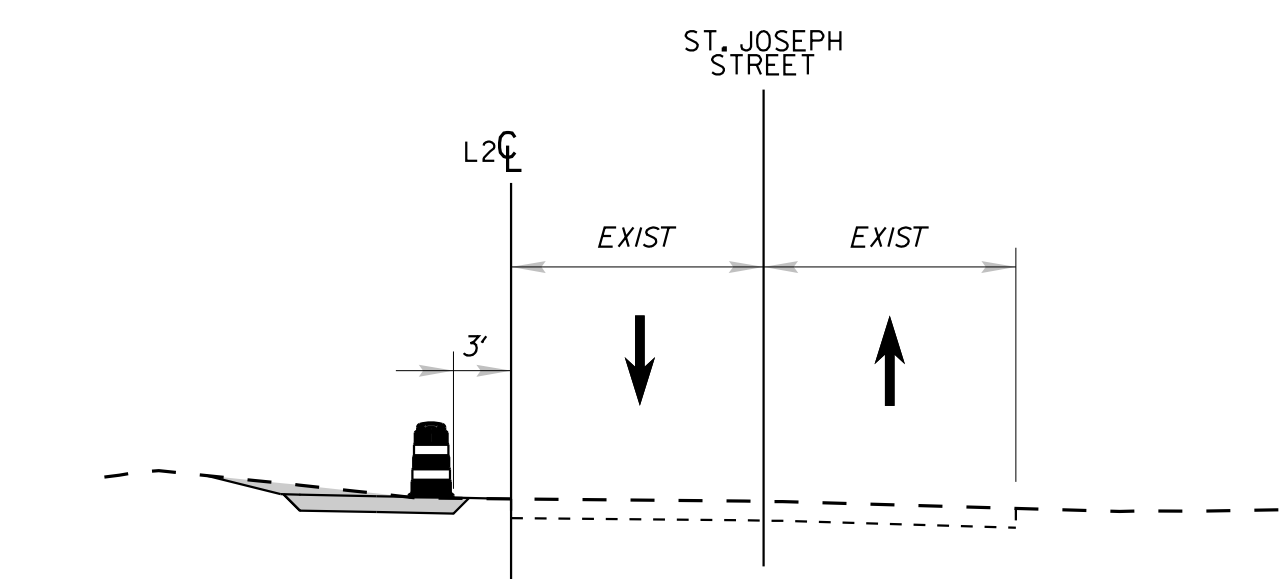
"END OF DAY"
TRAFFIC PATTERN



TEMPORARY LANE CLOSURE
TRAFFIC PATTERN
(NCDOT STD. 1101.02)



"END OF DAY"
TRAFFIC PATTERN

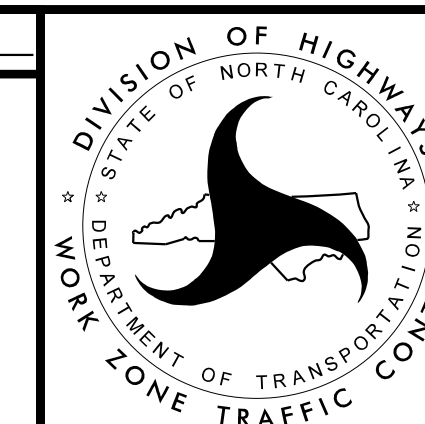


Kimley»Horn

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

APPROVED: _____ DATE: _____

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



**TEMPORARY TRAFFIC
CONTROL PLAN**

TIP PROJECT: EB-6039

CONTRACT:

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING & SIGNING PLAN
NEW HANNOVER COUNTY**

**LOCATION: MULTIUSE TRAIL ALONG THE EASTWEST SIDE OF ST. JOSEPH STREET
FROM N. LAKE PARK BOULEVARD TO ACCESS ROAD**

TIP NO. EB-6039	SHEET NO. PSP-1
APPROVED: _____	
DATE: _____	
SEAL	
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION </div>	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN AND SCHEDULE SHEET
PMP-3 THRU 8	PAVEMENT MARKING & SIGNING DESIGN

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE AND MULTILANE ROADWAYS

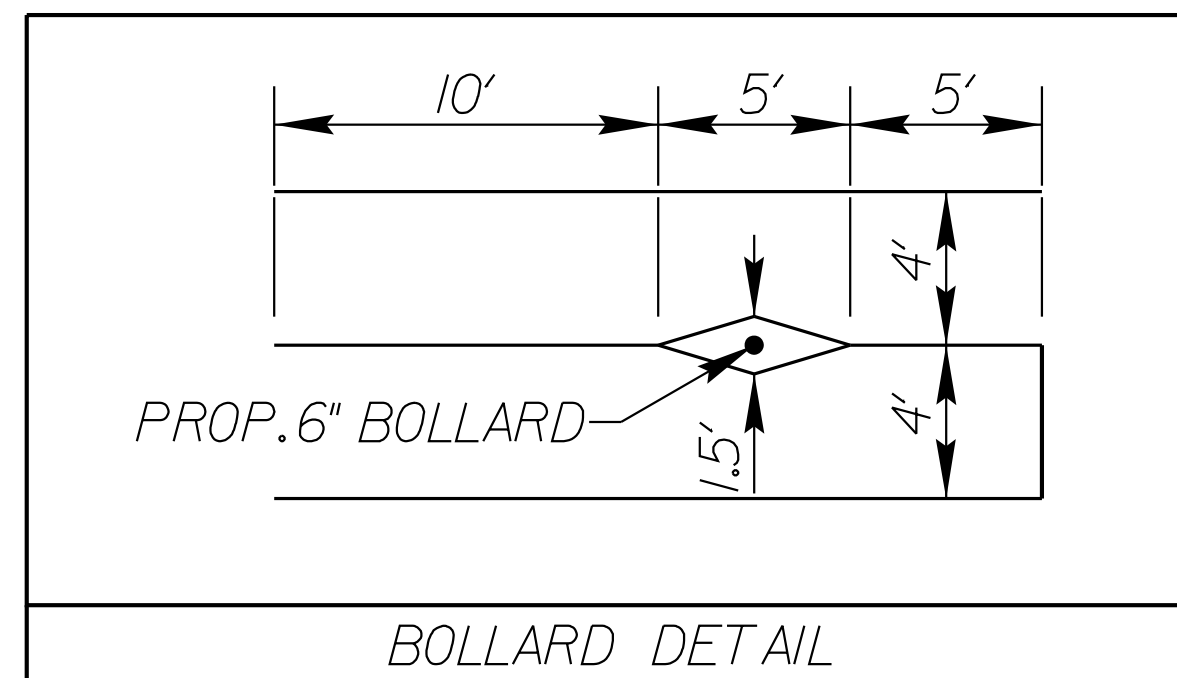
EB-6039 PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
	FINAL PAVEMENT MARKINGS
T2	THERMOPLASTIC (4", 90 MILS) WHITE SOLID LANE LINE
T21	THERMOPLASTIC (6", 90 MILS) WHITE SOLID LANE LINE
T62	THERMOPLASTIC (24", 90 MILS) WHITE STOPBAR
T94	THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS) SHARROW

GENERAL NOTES

- THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.
- A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

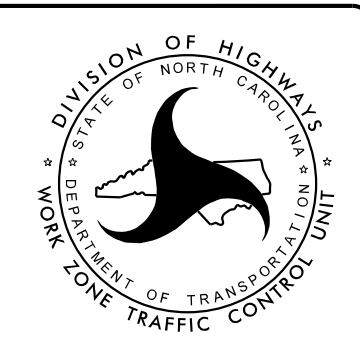
ROAD NAME	MARKING	MARKER
ALL	THERMOPLASTIC	N/A
 - B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
 - C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
 - D) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
 - E) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM. ALTHOUGH IT IS REQUIRED THAT UJ AND UK SHALL BE PLACED USING HEATED-IN-PLACE METHOD ONLY.



PLAN REVIEWED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT

SIGNING & DELINEATION REGIONAL ENGINEER

SIGNING & DELINEATION PROJECT DESIGN ENGINEER



PLAN PREPARED BY: Kimley-Horn and Associates

EVAN PARROTT, P.E. PROJECT DESIGN ENGINEER

SPENCER STRINGFELLOW, E.I. DESIGNER



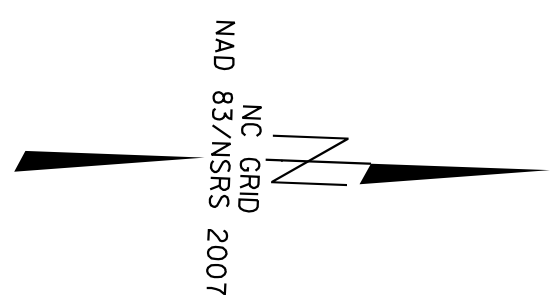
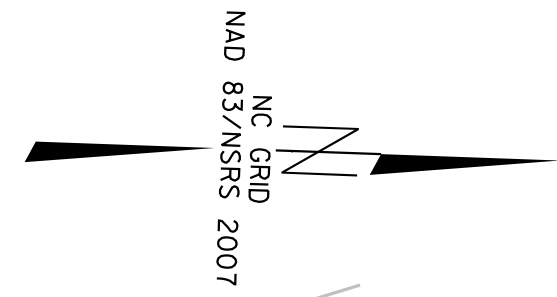
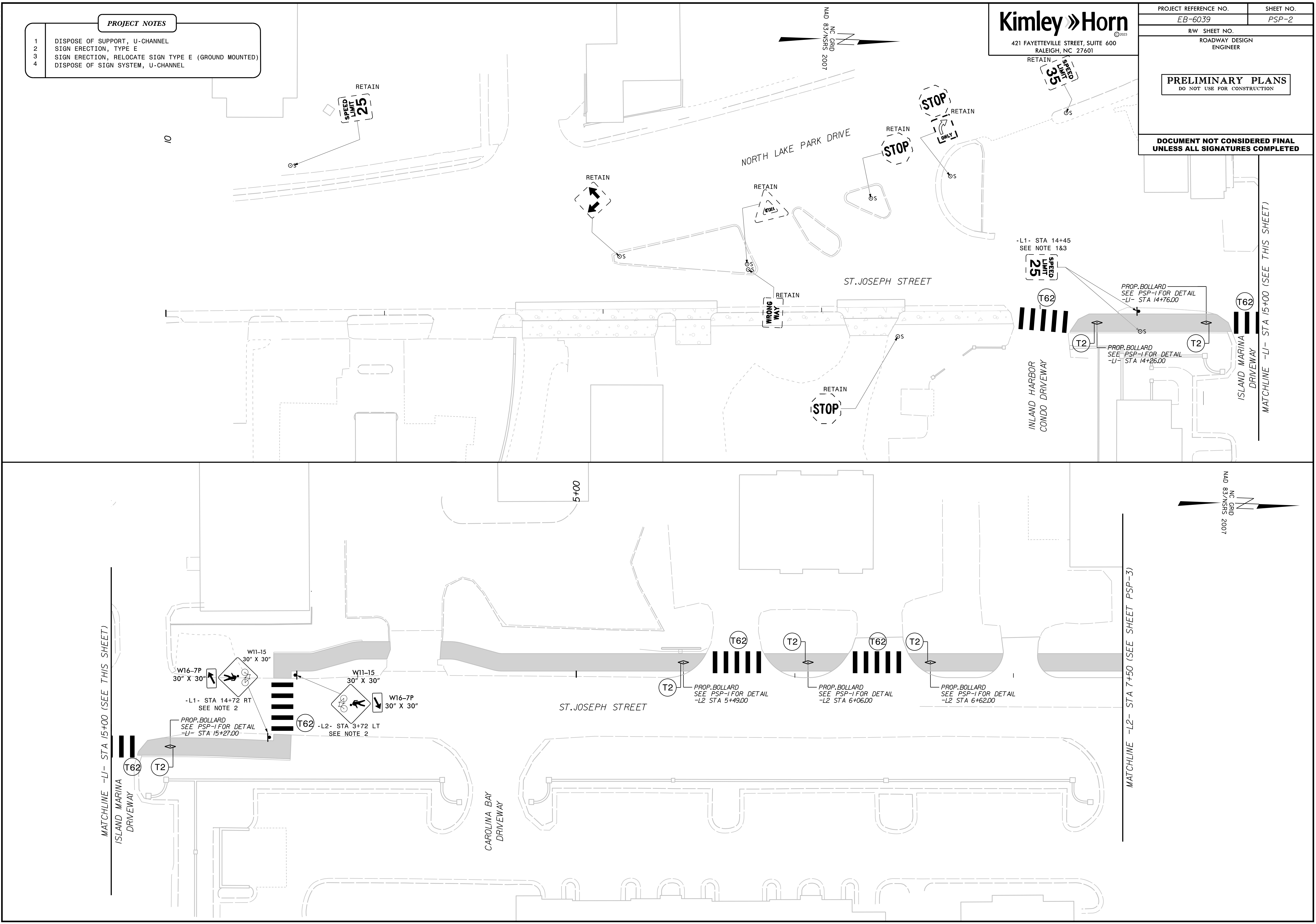
6/21/2024

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- PROJECT NOTES**
- DISPOSE OF SUPPORT, U-CHANNEL SIGN ERECTION, TYPE E
 - SIGN ERECTION, RELOCATE SIGN TYPE E (GROUND MOUNTED)
 - DISPOSE OF SIGN SYSTEM, U-CHANNEL

Kimley Horn
 421 FAYETTEVILLE STREET, SUITE 600
 RALEIGH, NC 27601

PROJECT REFERENCE NO. EB-6039	SHEET NO. PSP-2
RW SHEET NO. ROADWAY DESIGN ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCHLINE -L1- STA 15+00 (SEE THIS SHEET)

MATCHLINE -L2- STA 7+50 (SEE SHEET PSP-3)

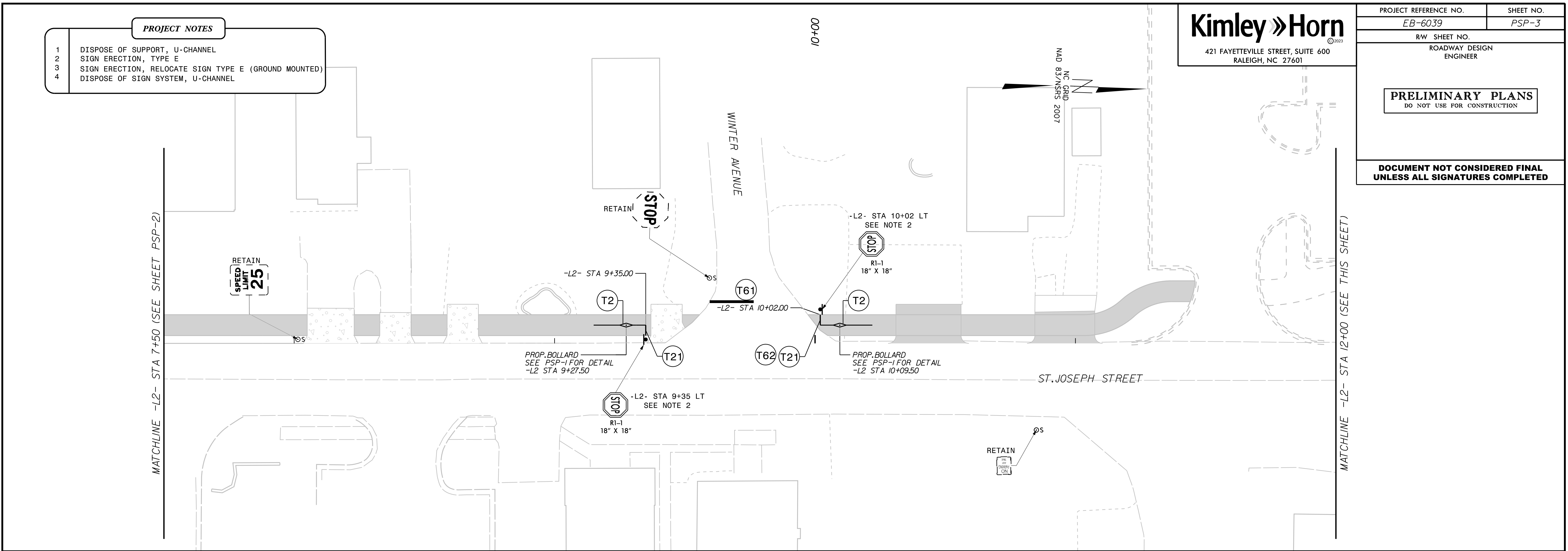
MATCHLINE -L1- STA 15+00 (SEE THIS SHEET)

6/21/2024

- PROJECT NOTES**
- 1 DISPOSE OF SUPPORT, U-CHANNEL
 - 2 SIGN ERECTION, TYPE E
 - 3 SIGN ERECTION, RELOCATE SIGN TYPE E (GROUND MOUNTED)
 - 4 DISPOSE OF SIGN SYSTEM, U-CHANNEL

Kimley » Horn
 421 FAYETTEVILLE STREET, SUITE 600
 RALEIGH, NC 27601

PROJECT REFERENCE NO. EB-6039	SHEET NO. PSP-3
RW SHEET NO. ROADWAY DESIGN ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
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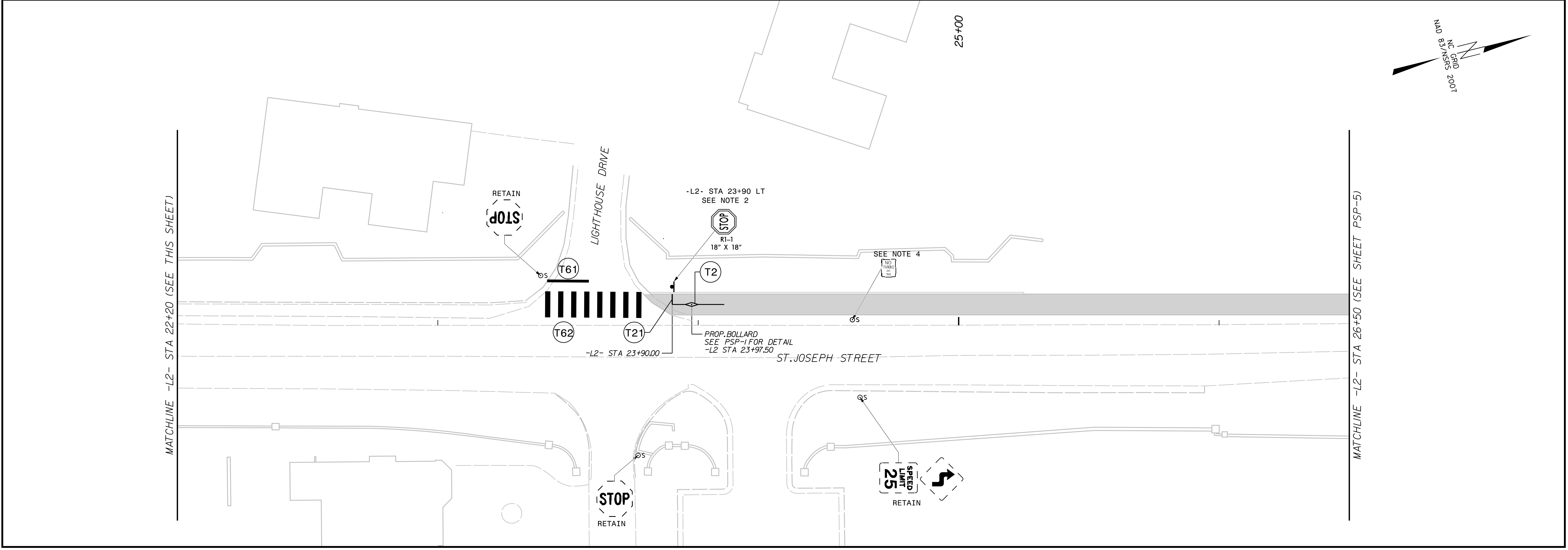
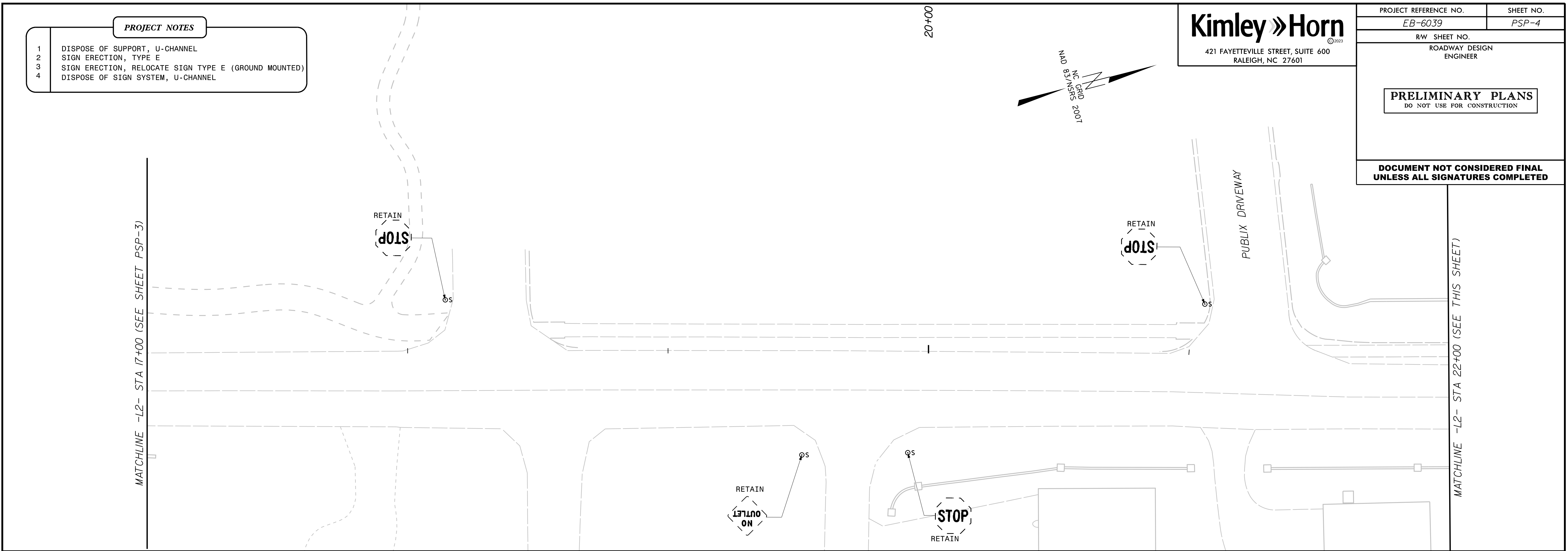
6/21/2024

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- PROJECT NOTES**
- DISPOSE OF SUPPORT, U-CHANNEL SIGN ERECTION, TYPE E
 - SIGN ERECTION, RELOCATE SIGN TYPE E (GROUND MOUNTED)
 - DISPOSE OF SIGN SYSTEM, U-CHANNEL

Kimley » Horn
 421 FAYETTEVILLE STREET, SUITE 600
 RALEIGH, NC 27601

PROJECT REFERENCE NO. EB-6039	SHEET NO. PSP-4
RW SHEET NO. ROADWAY DESIGN ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



6/21/2024

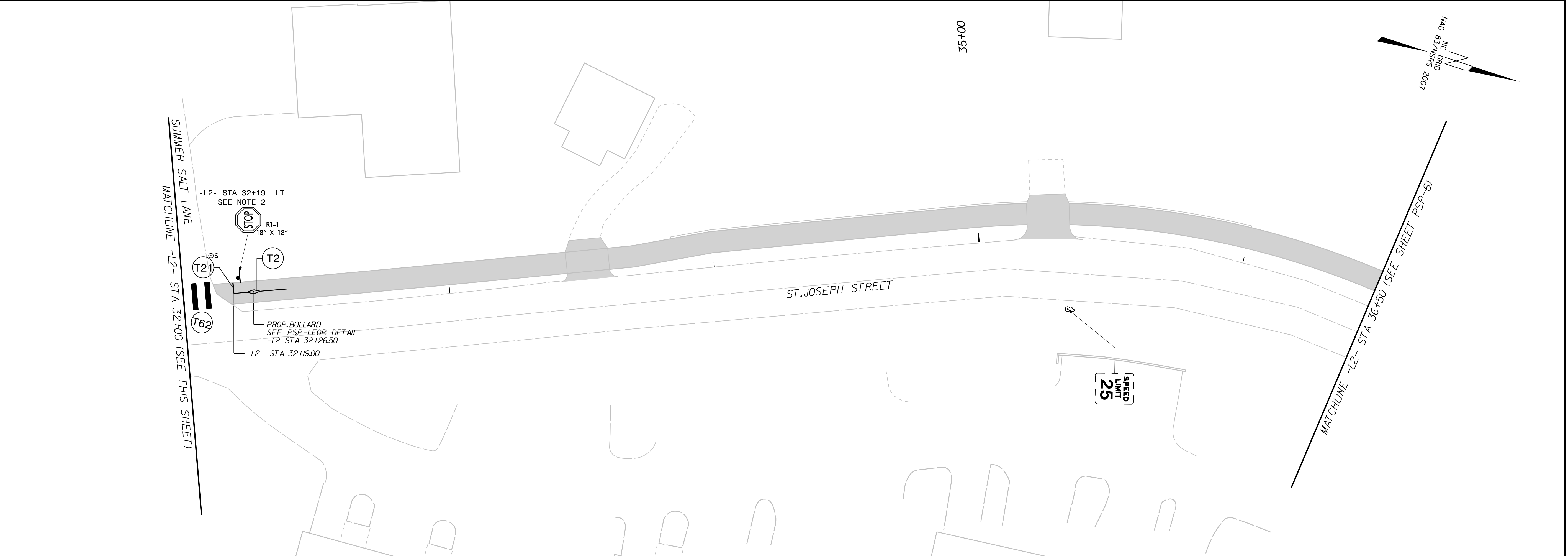
PROJECT NOTES

- 1 DISPOSE OF SUPPORT, U-CHANNEL
- 2 SIGN ERECTION, TYPE E
- 3 SIGN ERECTION, RELOCATE SIGN TYPE E (GROUND MOUNTED)
- 4 DISPOSE OF SIGN SYSTEM, U-CHANNEL

Kimley » Horn
 421 FAYETTEVILLE STREET, SUITE 600
 RALEIGH, NC 27601

PROJECT REFERENCE NO. EB-6039	SHEET NO. PSP-5
RW SHEET NO. ROADWAY DESIGN ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



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6/21/2024

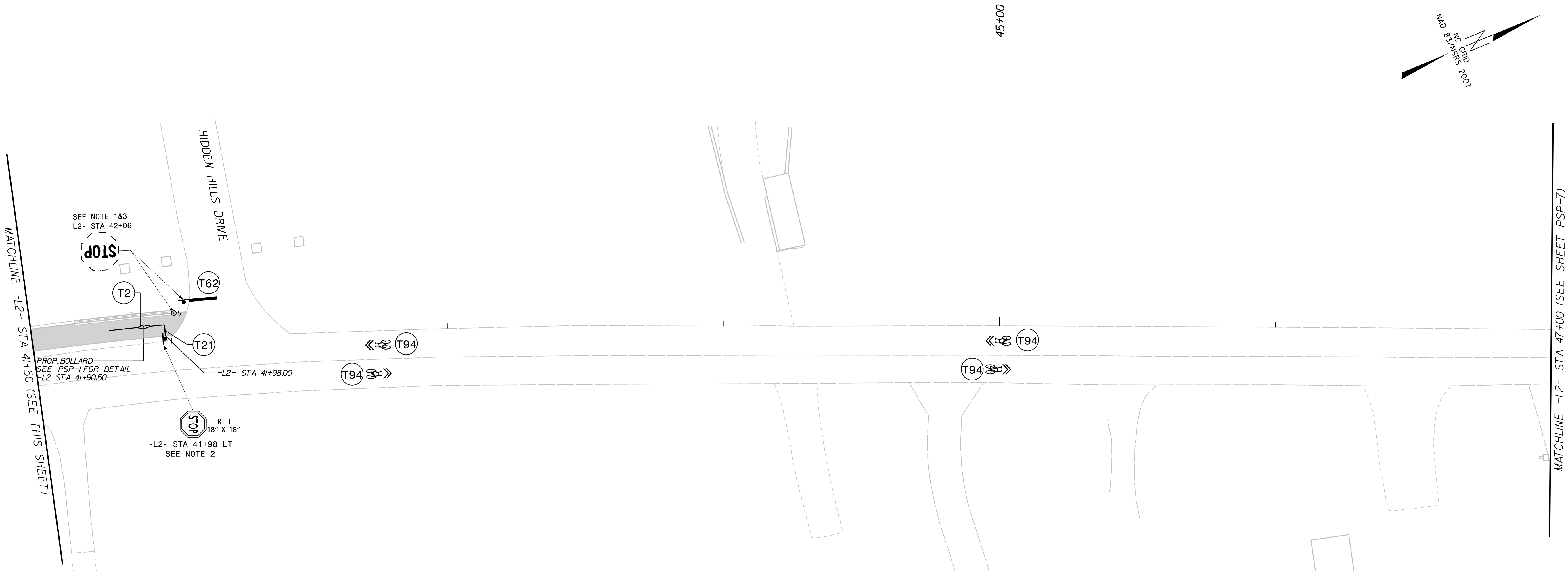
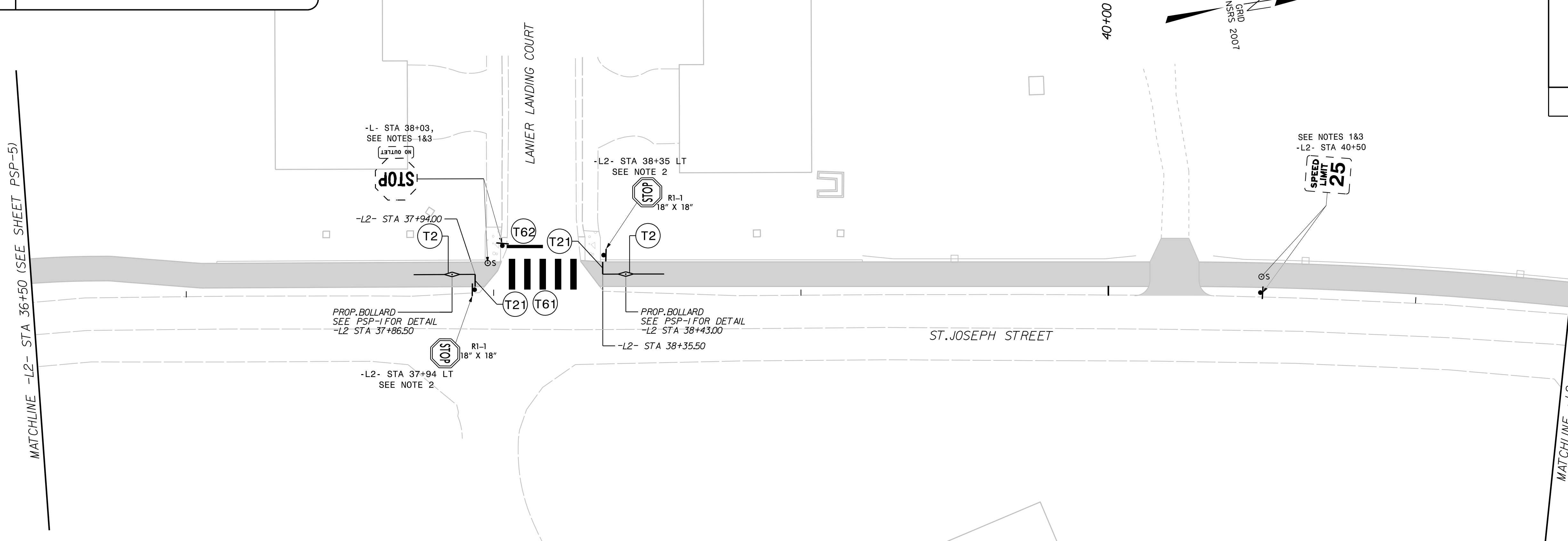
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PROJECT NOTES

- 1 DISPOSE OF SUPPORT, U-CHANNEL
- 2 SIGN ERECTION, TYPE E
- 3 SIGN ERECTION, RELOCATE SIGN TYPE E (GROUND MOUNTED)
- 4 DISPOSE OF SIGN SYSTEM, U-CHANNEL

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 RALEIGH, NC 27601

PROJECT REFERENCE NO. EB-6039	SHEET NO. PSP-6
RW SHEET NO. ROADWAY DESIGN ENGINEER	
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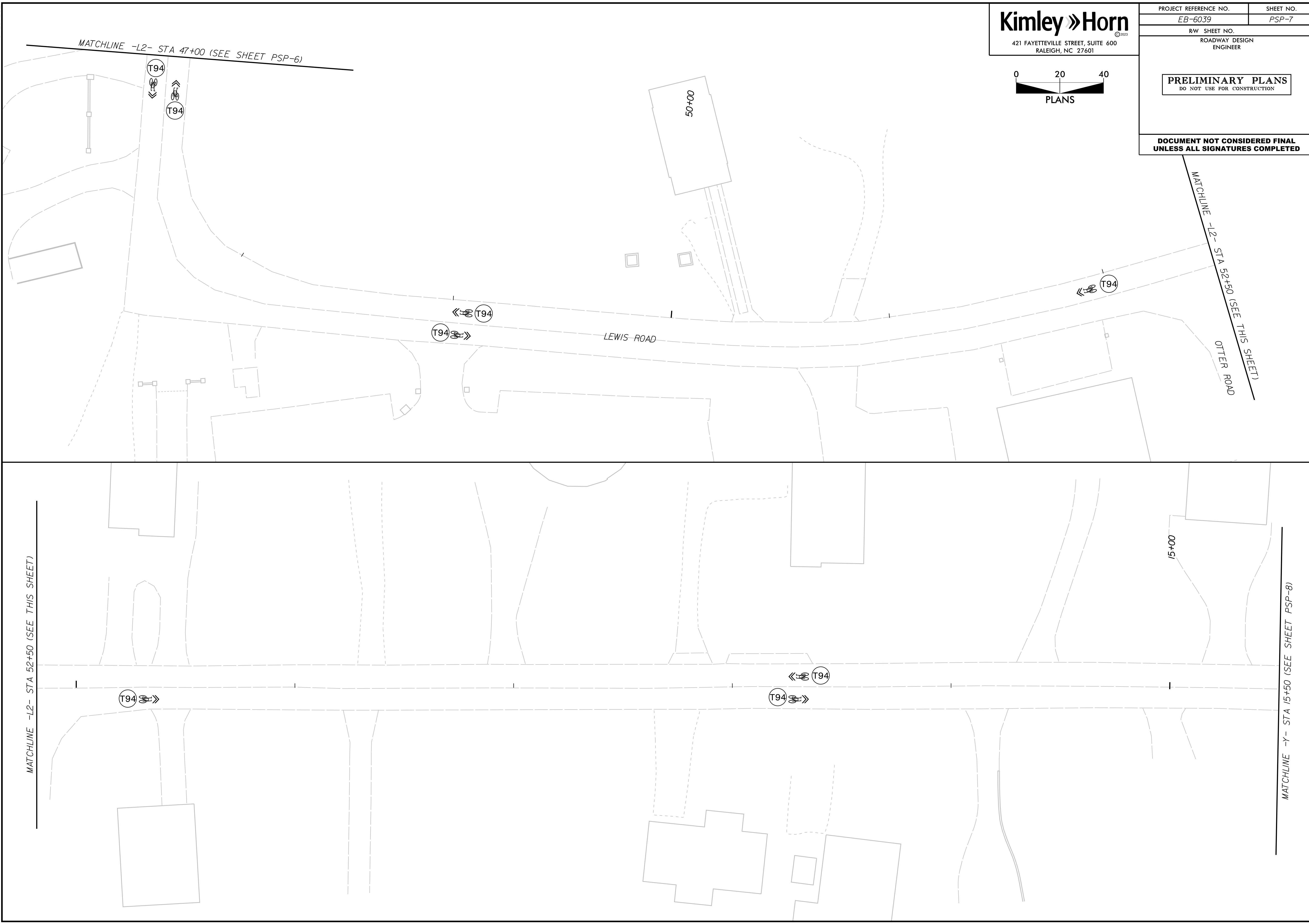
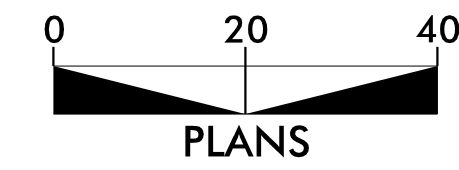


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RALEIGH, NC 27601

PROJECT REFERENCE NO. <i>EB-6039</i>	SHEET NO. <i>PSP-7</i>
RW SHEET NO. ROADWAY DESIGN ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

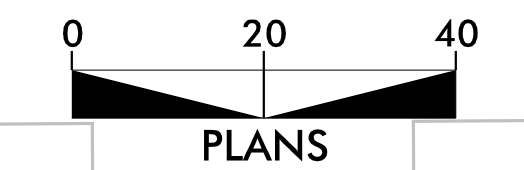


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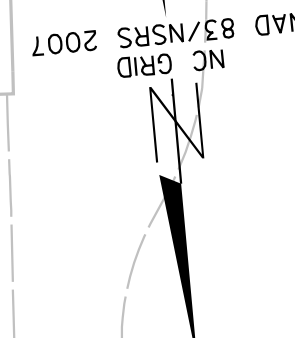
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PROJECT REFERENCE NO. EB-6039	SHEET NO. PSP-8
RW SHEET NO. ROADWAY DESIGN ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
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20+00

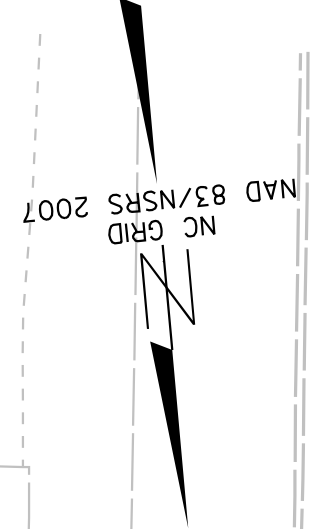


MATCHLINE -Y- STA 15+50 (SEE SHEET PSP-7)

MATCHLINE -Y- STA 21+00 (SEE THIS SHEET)



MATCHLINE -Y- STA 21+00 (SEE THIS SHEET)



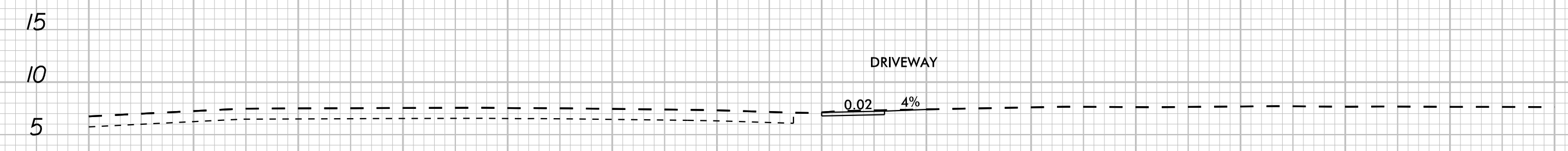
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CROSS SECTION INDEX

-L1-

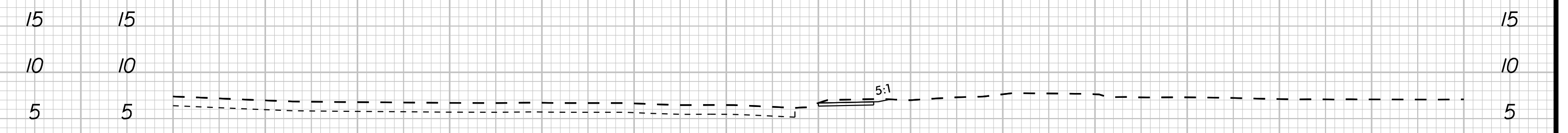
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X-1 THRU X-2

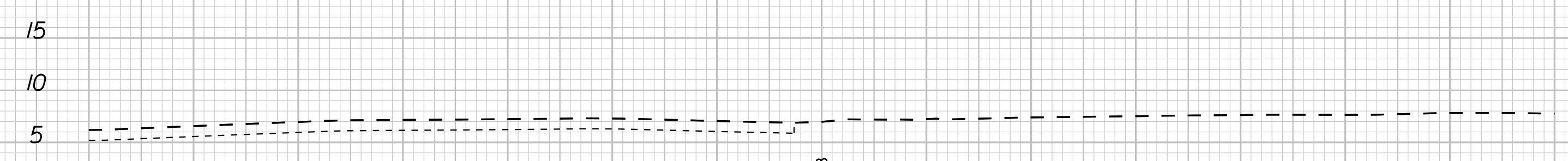
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12 + 00.00



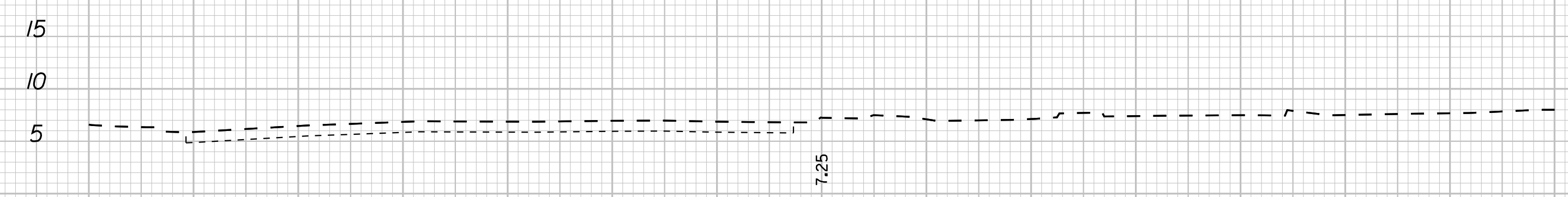
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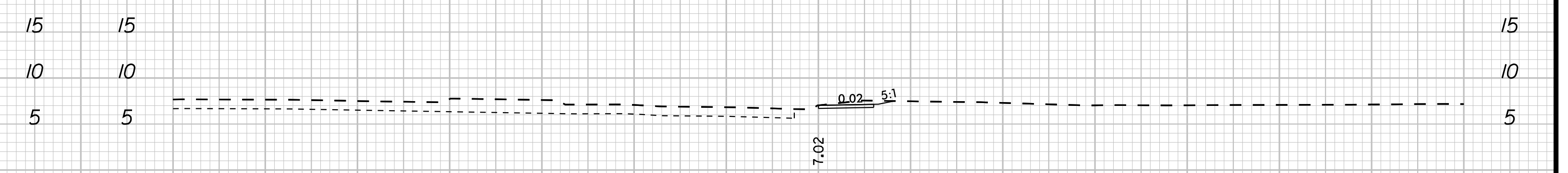
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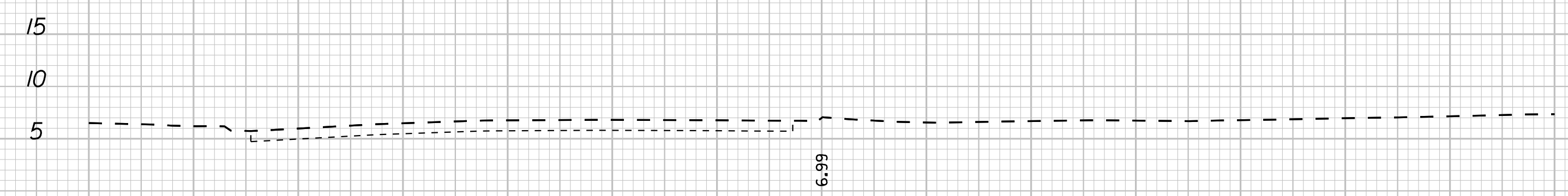
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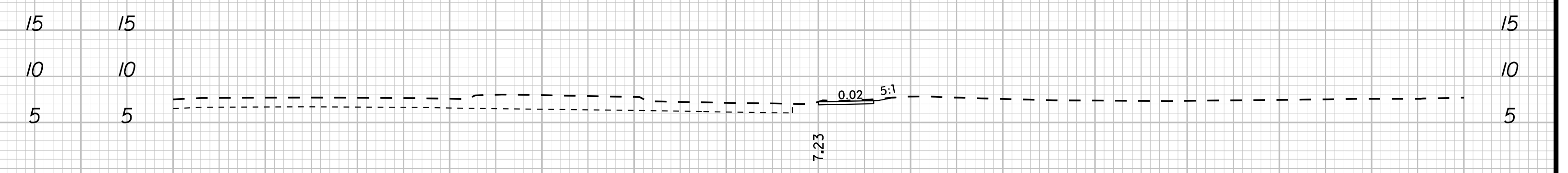
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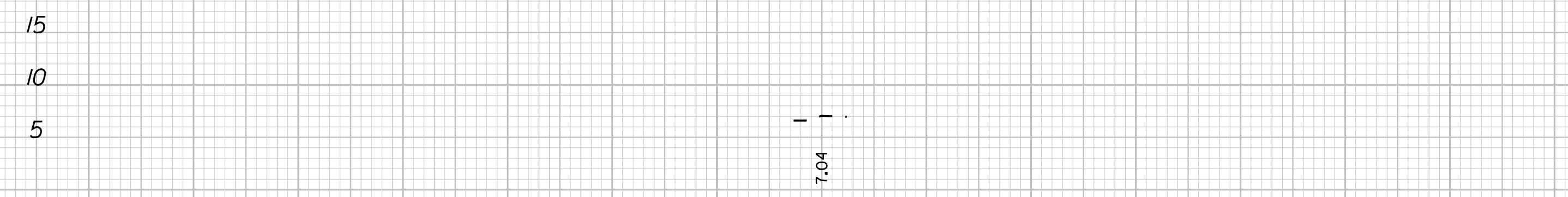
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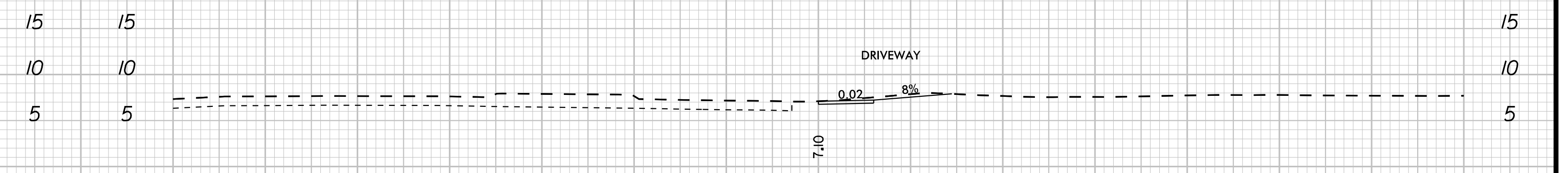
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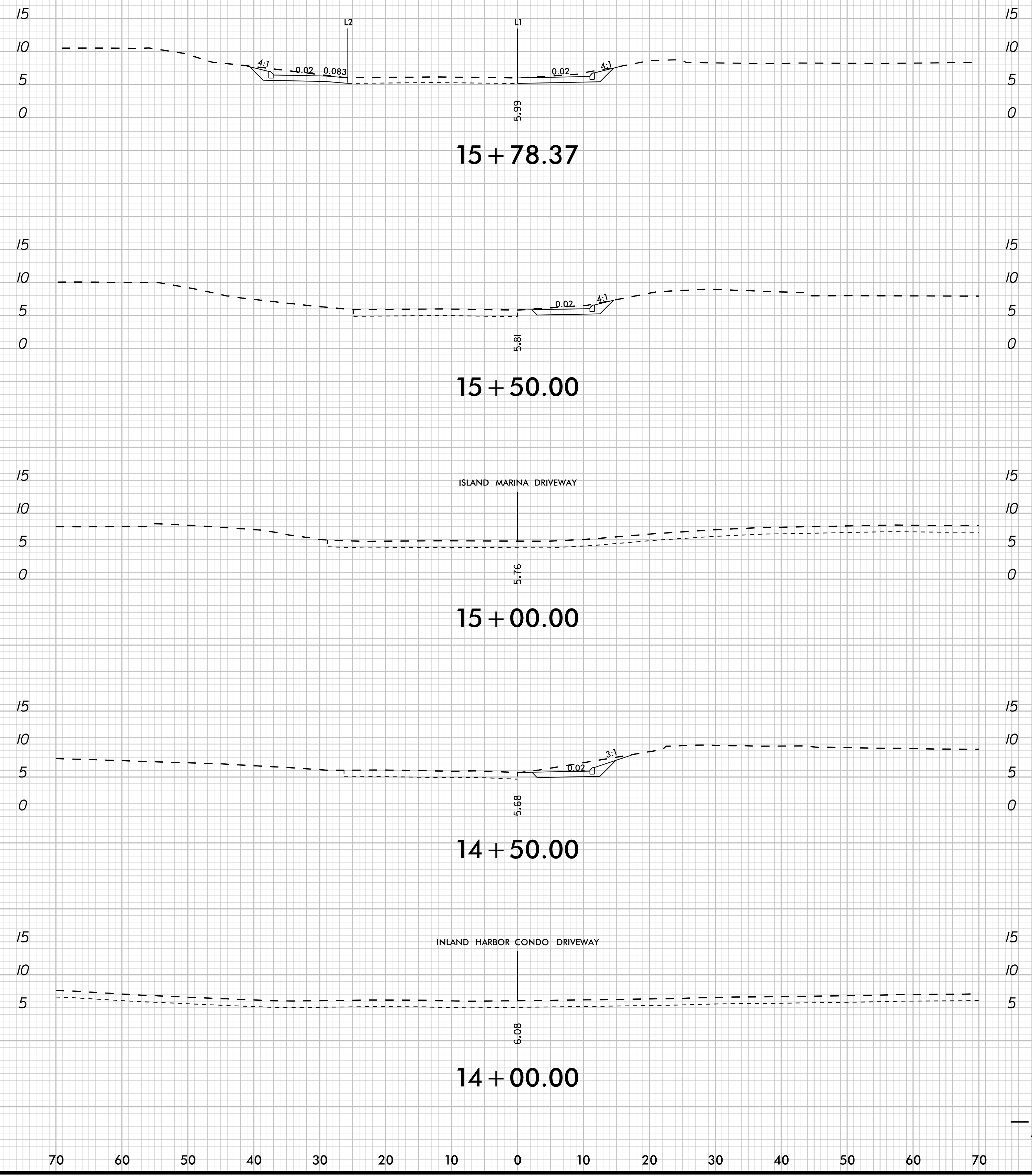


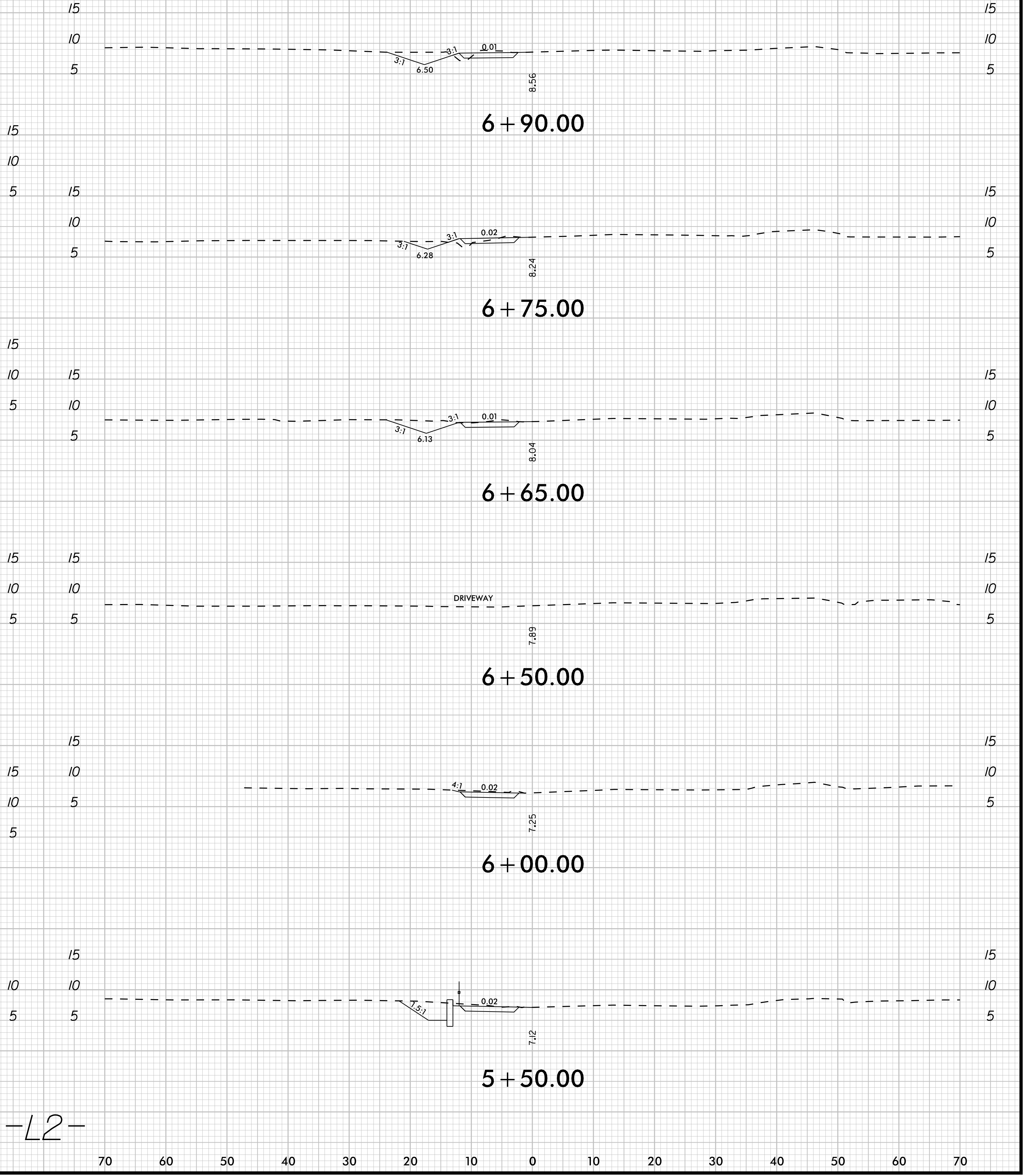
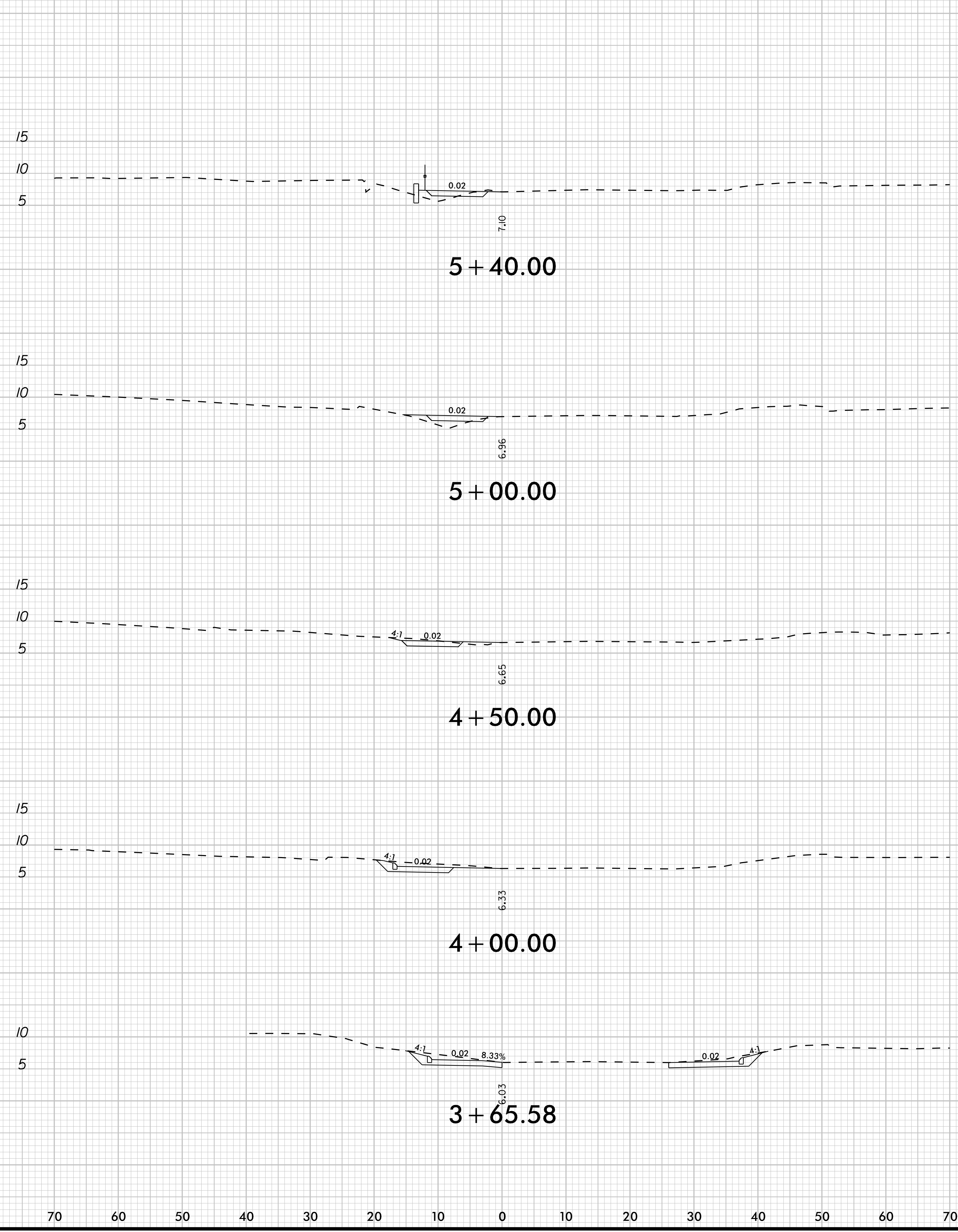
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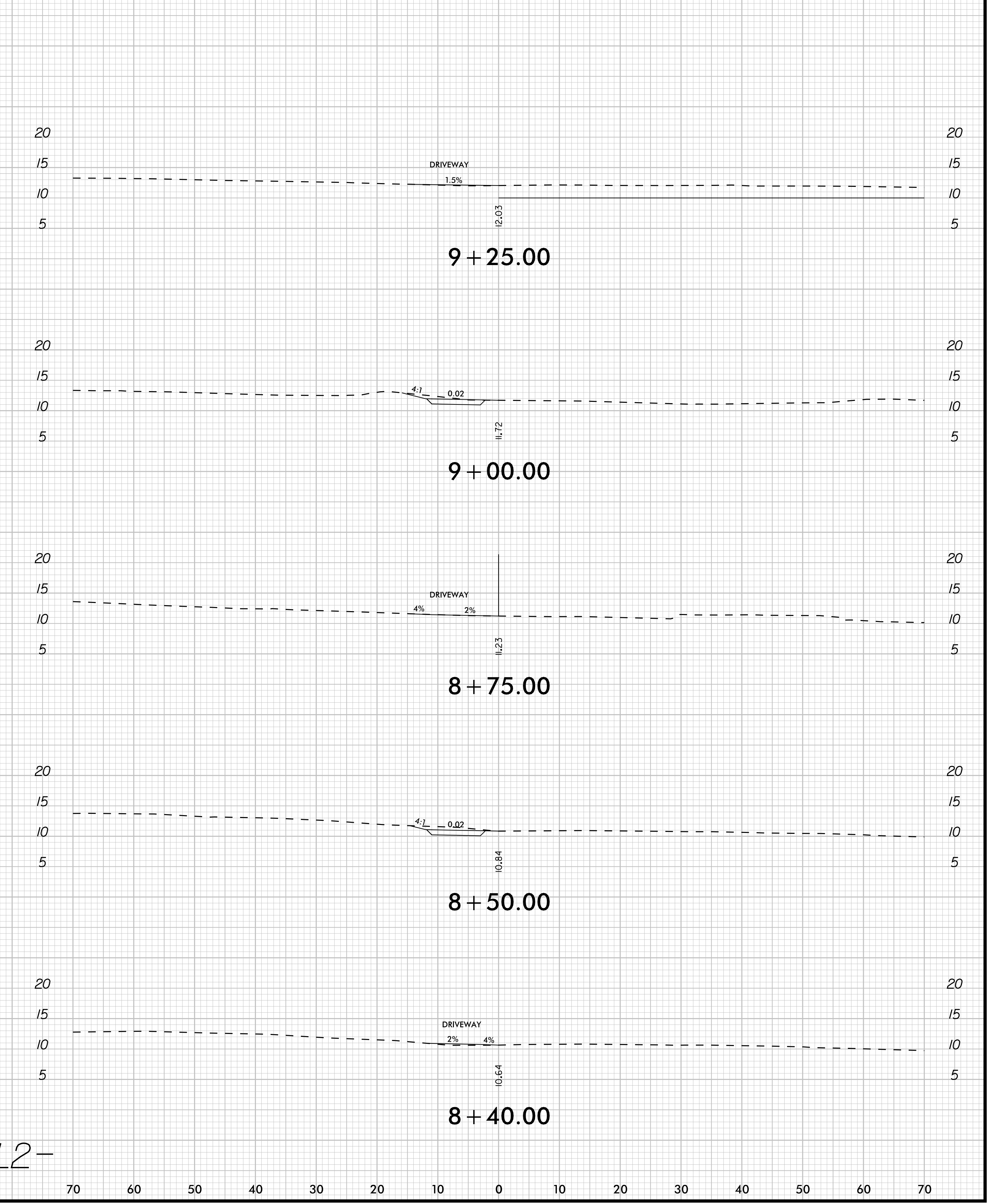
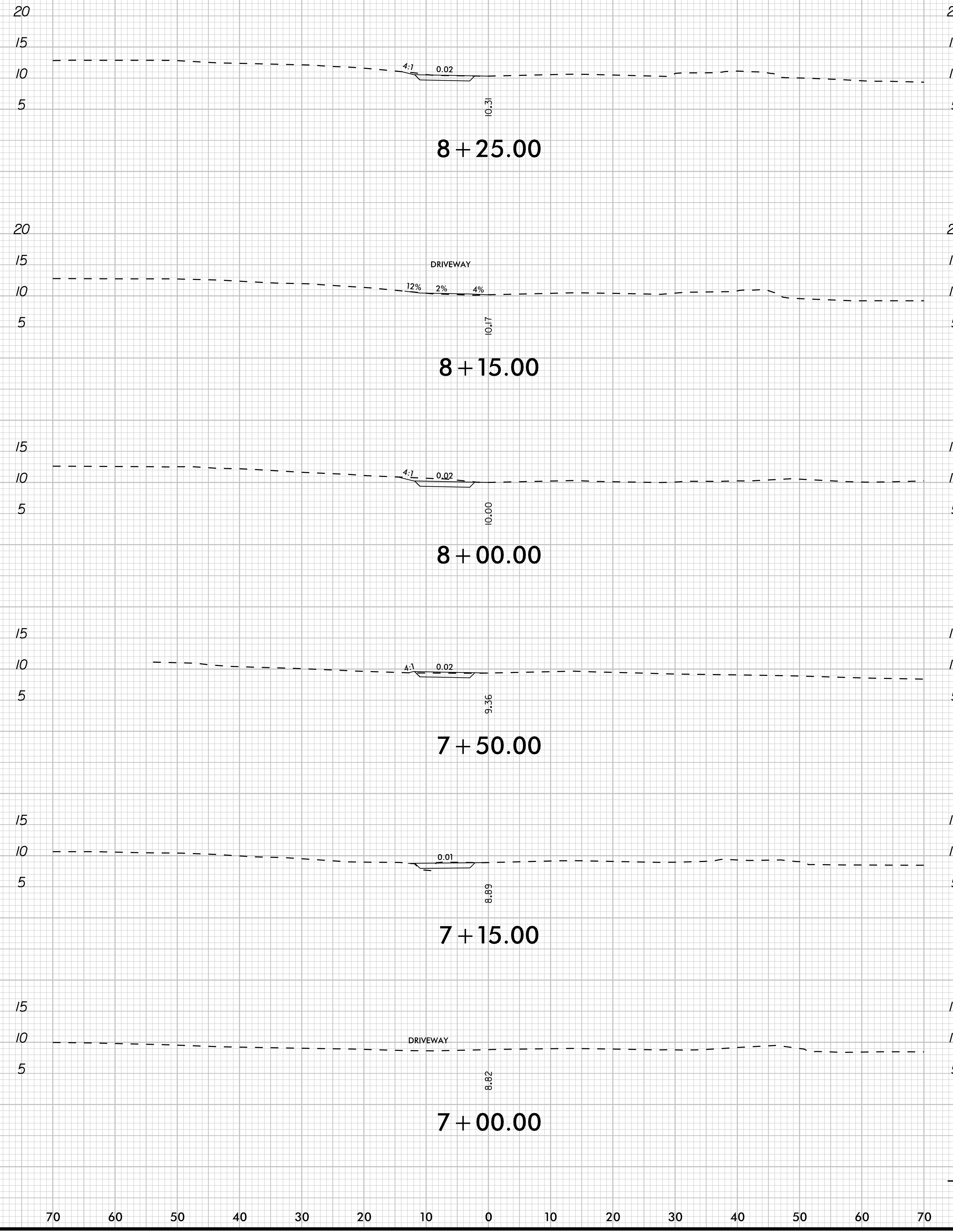


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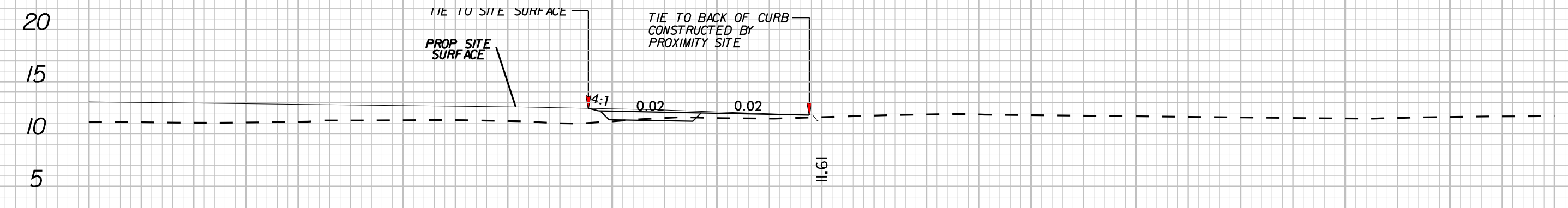
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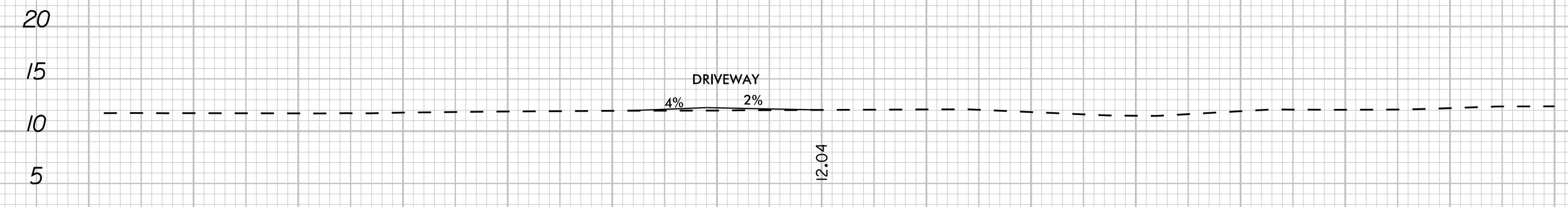




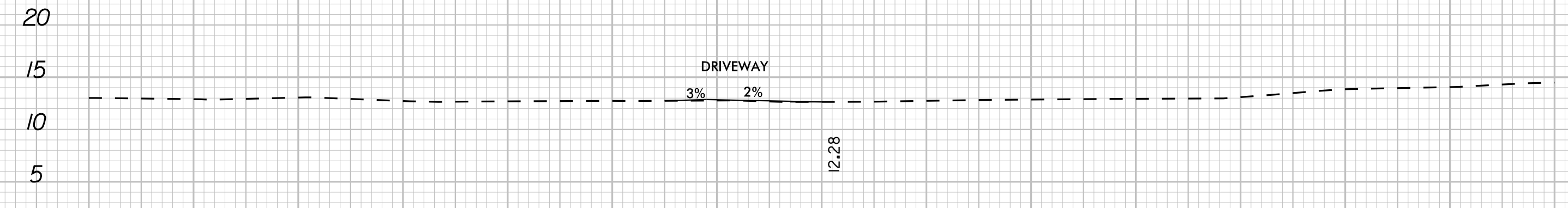
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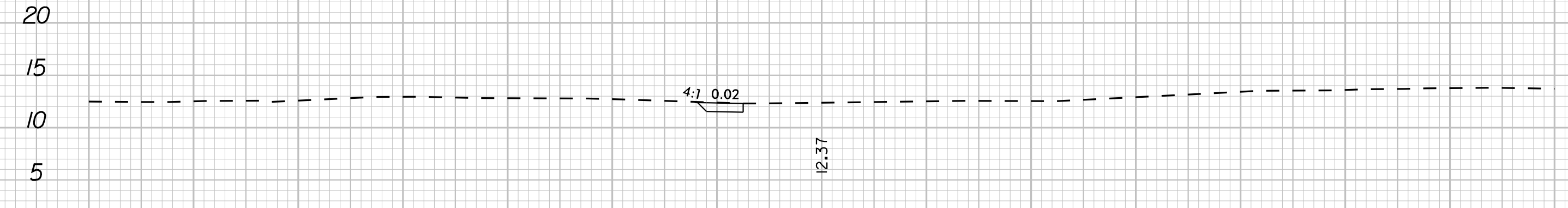
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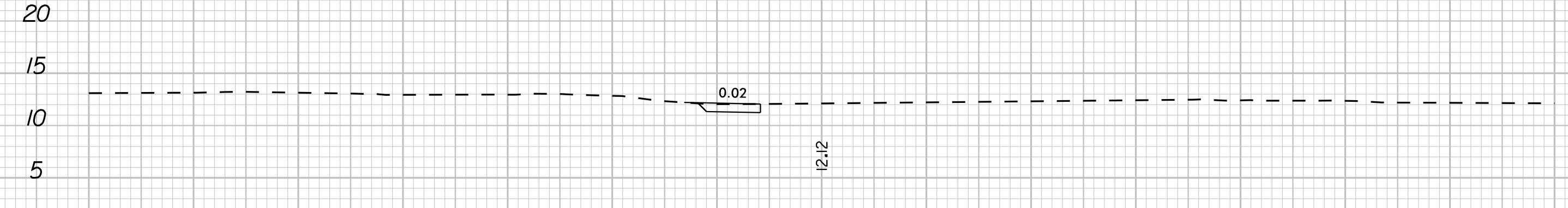
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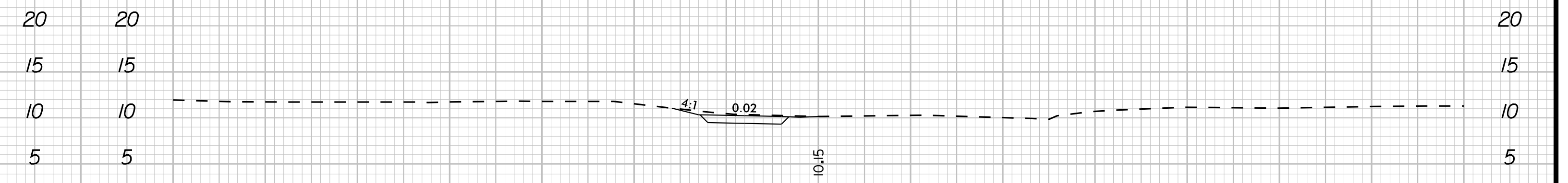
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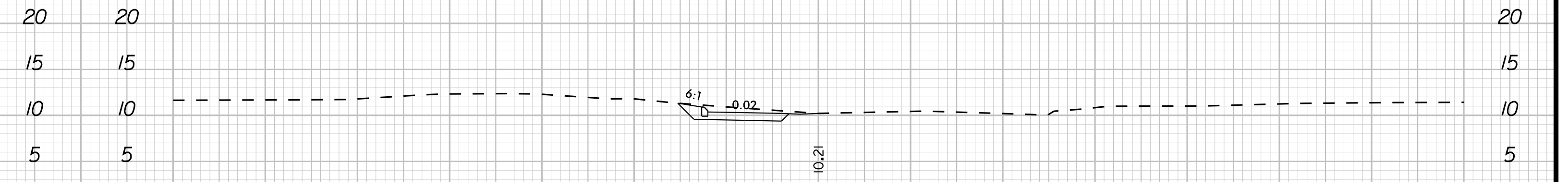
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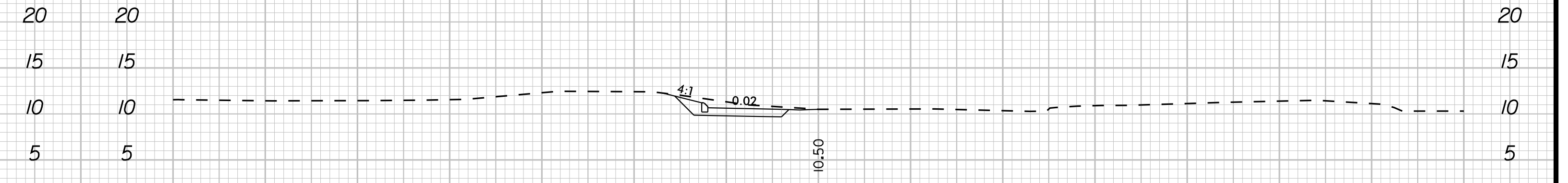
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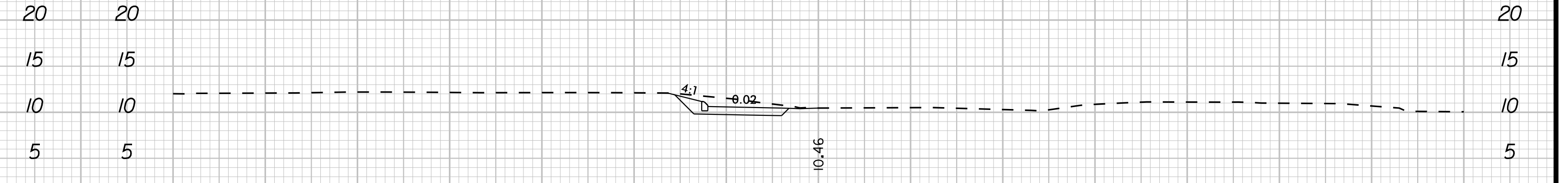
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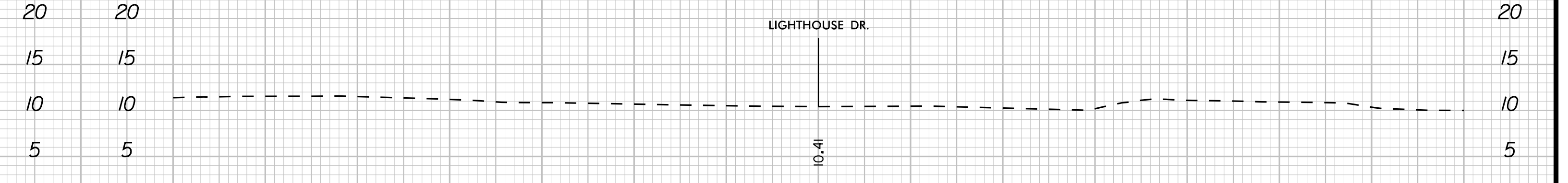
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24 + 50.00



24 + 00.00

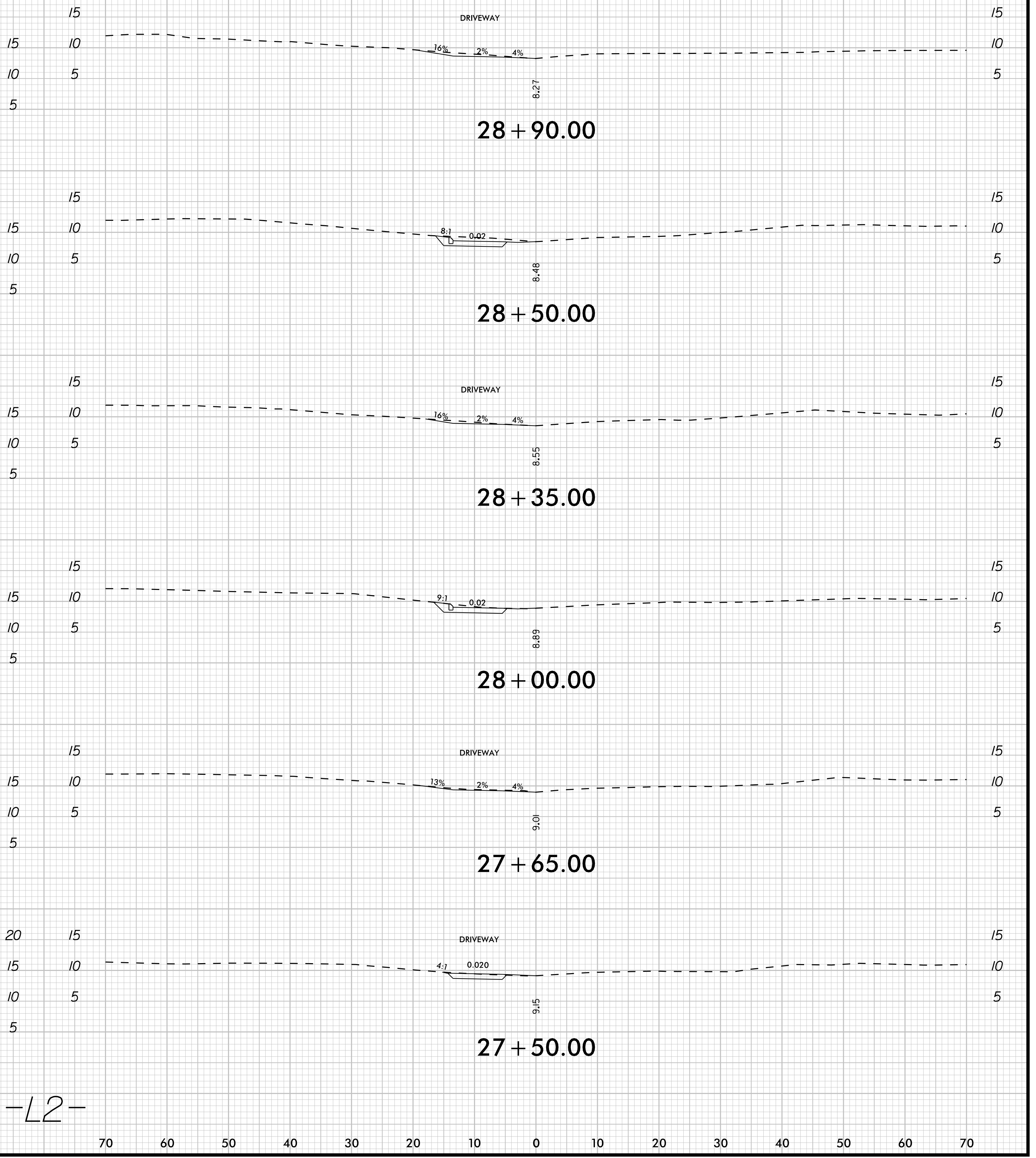
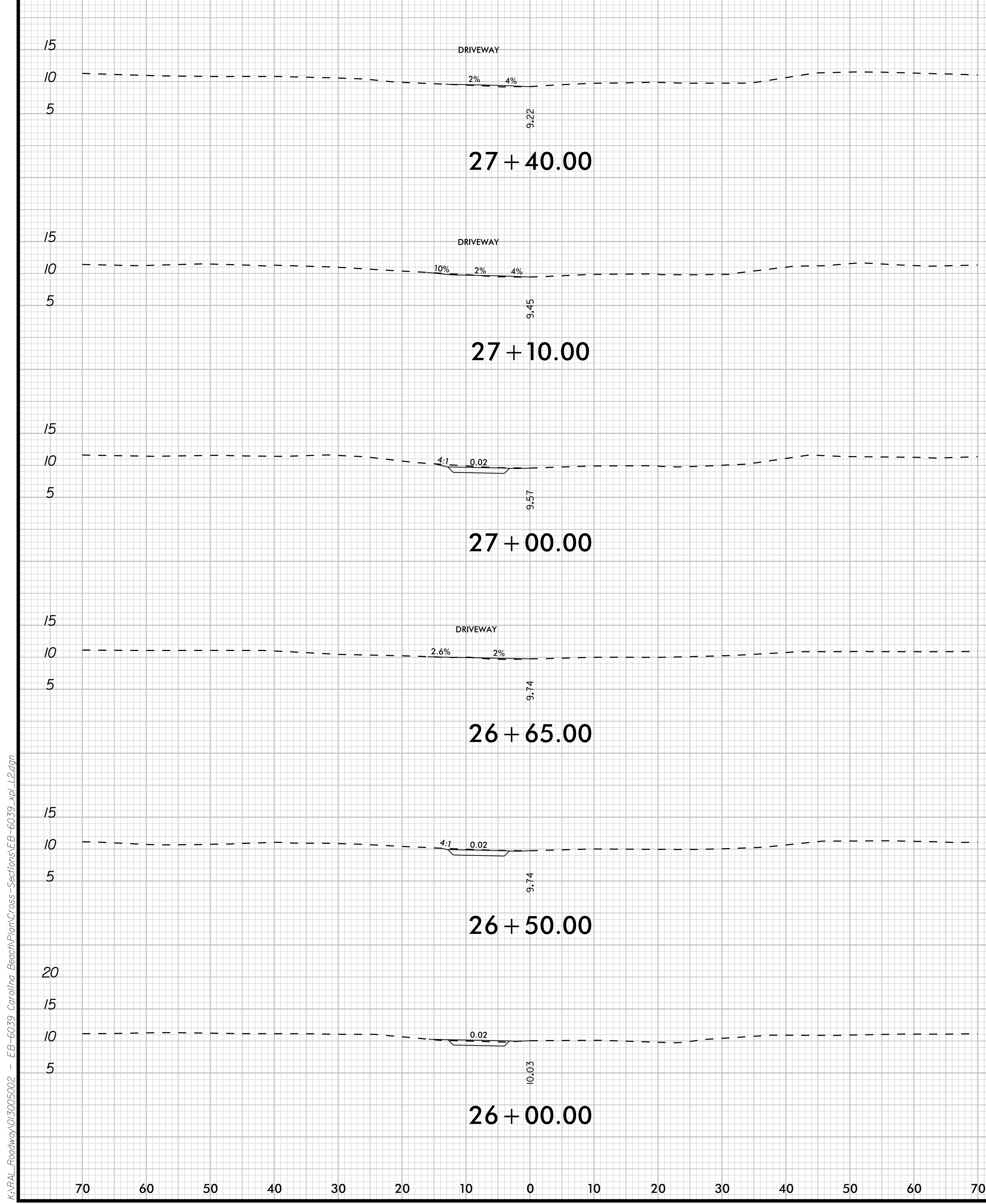


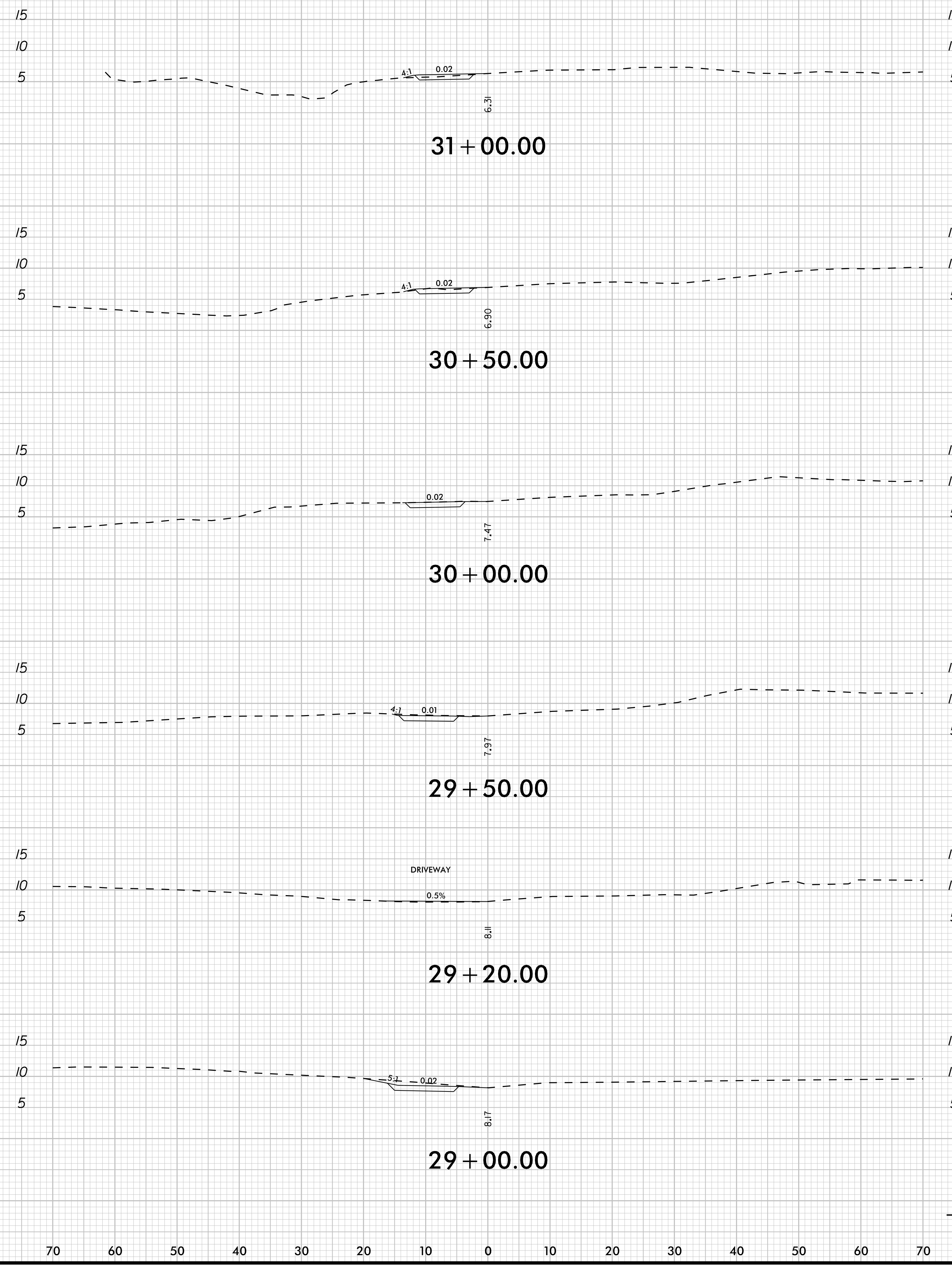
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-L2-

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-L2-

