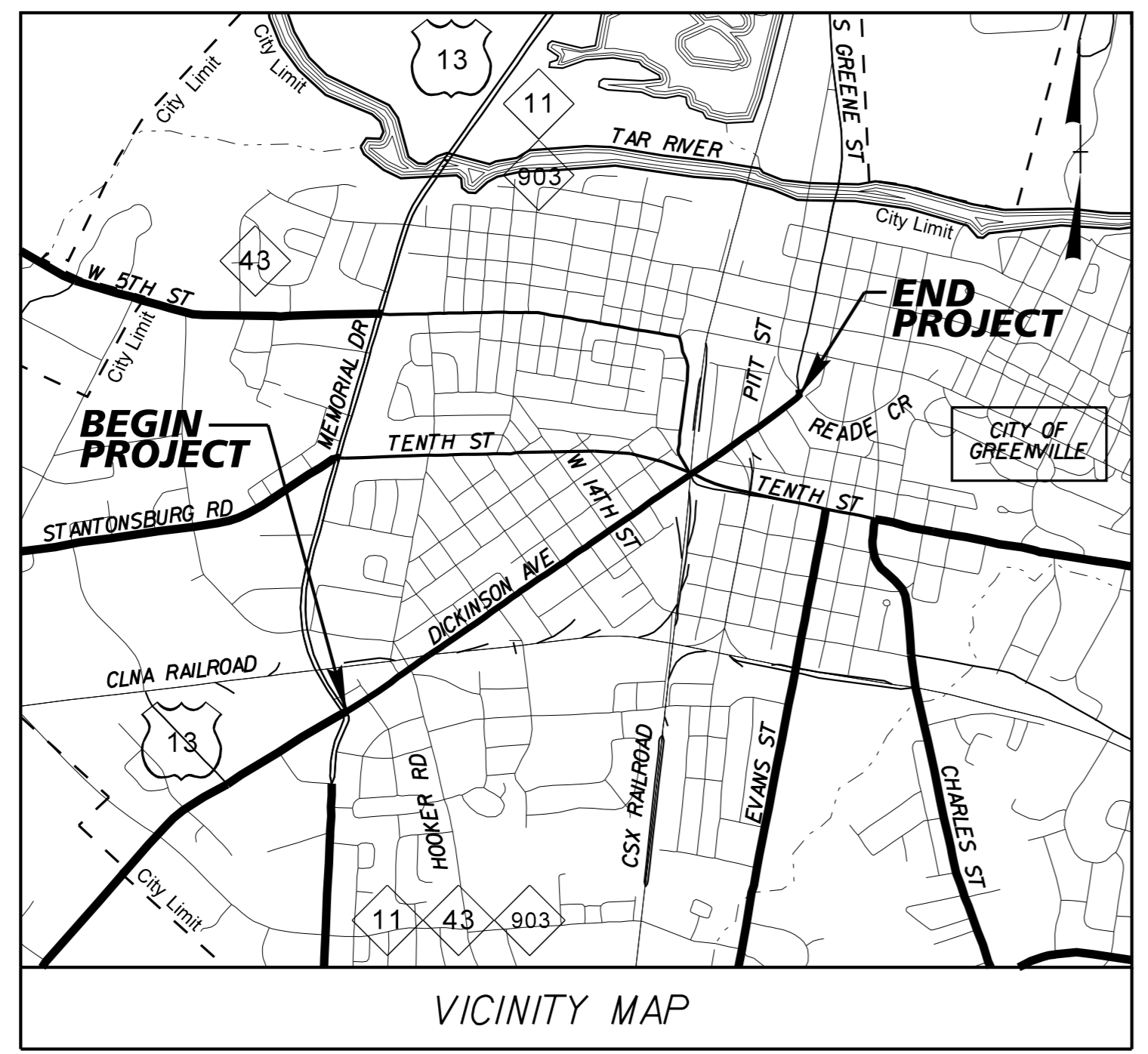


**TIP PROJECT: U-5606**

SEE SHEET 1A FOR INDEX OF SHEETS  
SEE SHEET 1B FOR CONVENTIONAL PLAN SHEET SYMBOLS

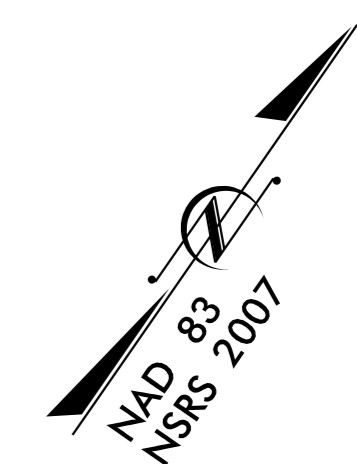


STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
**PITT COUNTY**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	<b>U-5606</b>	<b>1</b>	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45834.1.1	STP-1598(3)	P.E.	
45834.2.2	STP-1598(3)	RW & UTIL.	
45834.3.2	STP-1598(3)	CONSTRUCTION	

**LOCATION: SR 1598/SR 1620 (DICKINSON AVENUE) - FROM NC 11 (MEMORIAL DRIVE) TO SR 1610 (READE CIRCLE)**

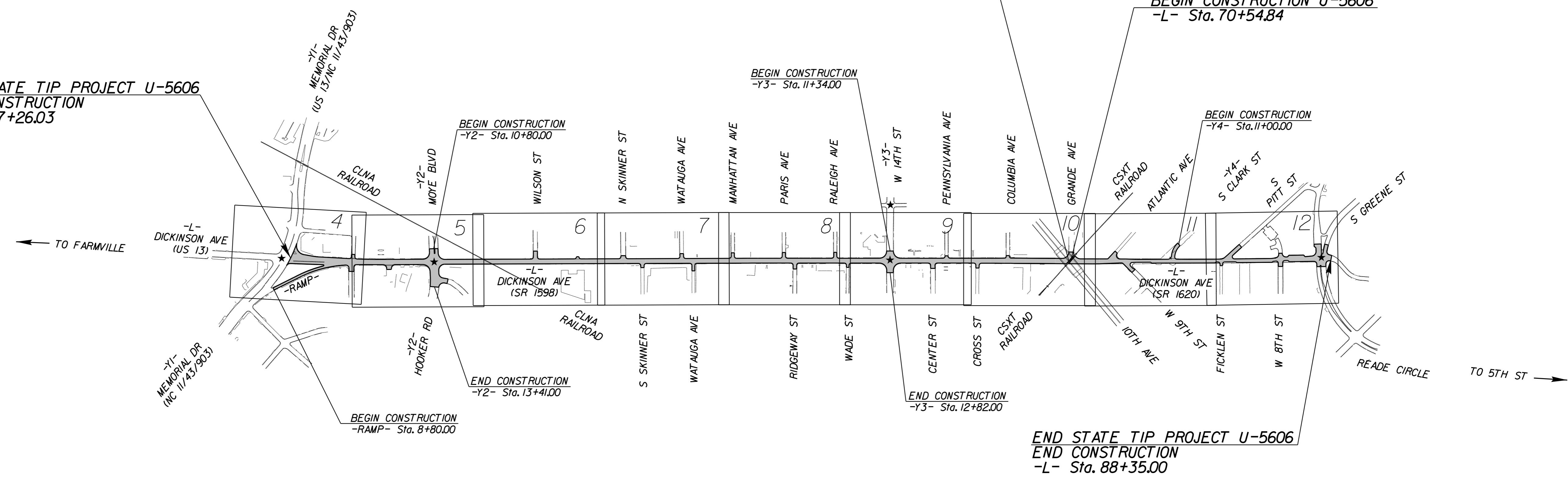
**TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNALS, AND RETAINING WALLS**



**BEGIN STATE TIP PROJECT U-5606  
BEGIN CONSTRUCTION**  
-L- Sta. 17+26.03

**END CONSTRUCTION U-5606**  
-L- Sta. 70+41.60

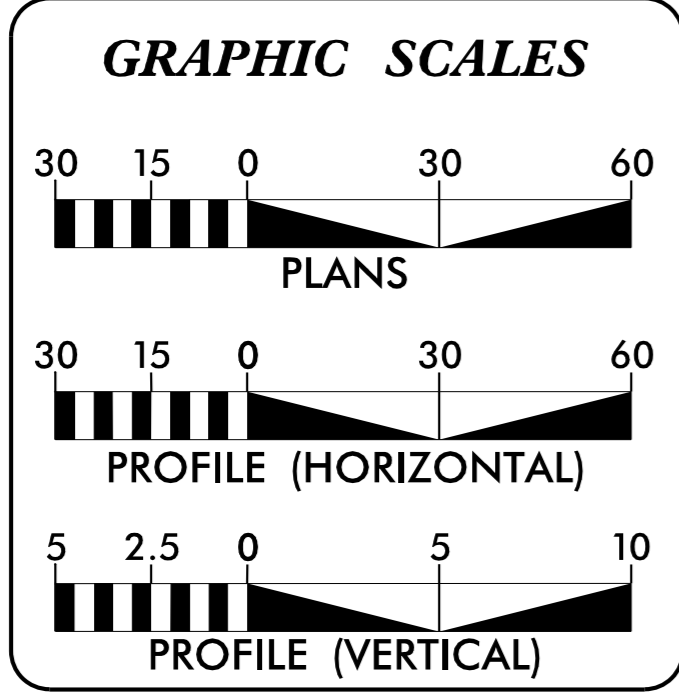
**BEGIN CONSTRUCTION U-5606**  
-L- Sta. 70+54.84



★ TRAFFIC SIGNAL

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

**CONTRACT: C204070**



**DESIGN DATA**

ADT 2022	=	13,700 VPD
ADT 2042	=	15,700 VPD
K	=	9%
D	=	55%
T	=	3% *
V	=	40 mph

\* (TTST 1% + DUAL 2%)

FUNCTIONAL CLASSIFICATION:  
URBAN ARTERIAL  
SUB-REGIONAL TIER

**PROJECT LENGTH**

LENGTH ROADWAY TIP PROJECT U-5606	=	1.344 MILES
TOTAL LENGTH TIP PROJECT U-5606	=	1.344 MILES

PLANS PREPARED FOR THE NCDOT BY:

**Kimley » Horn**

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: JUNE 15, 2016

LETTING DATE: MARCH 15, 2022

**JEFFREY W. MOORE, P.E.**  
PROJECT ENGINEER

**EVERETT J. LOVING, P.E.**  
PROJECT DESIGN ENGINEER

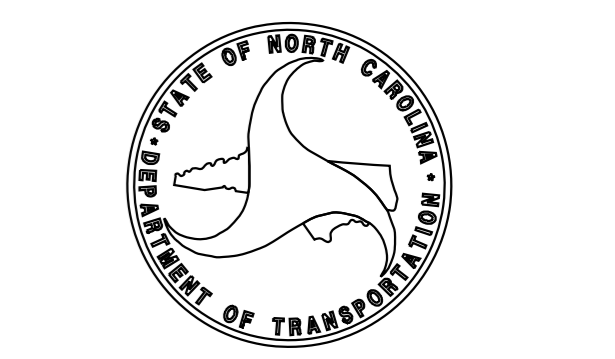
**NICOLE HACKLER, P.E.**  
SENIOR PROJECT MANAGER  
NCDOT PROJECT MANAGEMENT UNIT

**HYDRAULICS ENGINEER**

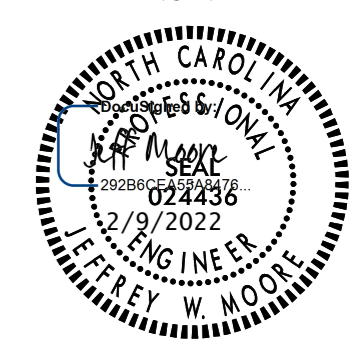
**WALTER W. BLANTON, P.E.**  
SIGNATURE: \_\_\_\_\_

**ROADWAY DESIGN ENGINEER**

**JEFFREY W. MOORE, P.E.**  
SIGNATURE: \_\_\_\_\_





PROJECT REFERENCE NO.	SHEET NO.
U-5606	1A
ROADWAY DESIGN ENGINEER	
	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

GENERAL NOTES

2018 SPECIFICATIONS

EFFECTIVE: 01-16-18

EFF. 01-16-2018

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.

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, 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD.NO. TITLE

DIVISION 2 - EARTHWORK

- 200.03 METHOD OF CLEARING - METHOD III
- 225.02 GUIDE FOR GRADING SUBGRADE - SECONDARY AND LOCAL
- 225.04 METHOD OF OBTAINING SUPERELEVATION - TWO LANE PAVEMENT

DIVISION 3 - PIPE CULVERTS

- 300.01 METHOD OF PIPE INSTALLATION

DIVISION 6 - ASPHALT BASES AND PAVEMENTS

- 654.01 PAVEMENT REPAIRS

DIVISION 8 - INCIDENTALS

- 840.00 CONCRETE BASE PAD FOR DRAINAGE STRUCTURES
- 840.01 BRICK CATCH BASIN - 12" THRU 54" PIPE
- 840.02 CONCRETE CATCH BASIN - 12" THRU 54" PIPE
- 840.03 FRAME, GRATES AND HOOD - FOR USE ON STANDARD CATCH BASIN
- 840.14 CONCRETE DROP INLET - 12" THRU 30" PIPE
- 840.15 BRICK DROP INLET - 12" THRU 30" PIPE
- 840.16 DROP INLET FRAME AND GRATES - FOR USE WITH STD. DWG 840.14 AND 840.15
- 840.18 CONCRETE GRATED DROP INLET TYPE 'B' - 12" THRU 36" PIPE
- 840.20 FRAMES AND WIDE SLOT FLAT GRATES
- 840.22 FRAMES AND WIDE SLOT SAG GRATES
- 840.25 ANCHORAGE FOR FRAMES - BRICK OR CONCRETE OR PRECAST
- 840.27 BRICK GRATED DROP INLET TYPE 'B' - 12" THRU 36" PIPE
- 840.29 FRAMES AND NARROW SLOT FLAT GRATES
- 840.31 CONCRETE JUNCTION BOX - 12" THRU 66" PIPE
- 840.32 BRICK JUNCTION BOX - 12" THRU 66" PIPE
- 840.34 TRAFFIC BEARING JUNCTION BOX - FOR USE WITH PIPES 42" AND UNDER
- 840.35 TRAFFIC BEARING GRATED DROP INLET - FOR CAST IRON DOUBLE FRAME AND GRATES
- 840.45 PRECAST DRAINAGE STRUCTURE
- 840.46 TRAFFIC BEARING PRECAST DRAINAGE STRUCTURE
- 840.51 BRICK MANHOLE - 12" THRU 36" PIPE
- 840.52 PRECAST MANHOLE - 4', 5' AND 6' DIAMETER
- 840.53 PRECAST MANHOLE WITH MASONRY BASE - 12" THRU 42" PIPE
- 840.54 MANHOLE FRAME AND COVER
- 840.66 DRAINAGE STRUCTURE STEPS
- 840.71 CONCRETE AND BRICK PIPE PLUG
- 846.01 CONCRETE CURB, GUTTER AND CURB & GUTTER
- 848.01 CONCRETE SIDEWALK
- 848.03 DRIVEWAY TURNOUT - DROP CURB TYPE
- 848.04 STREET TURNOUT
- 848.05 CURB RAMP - PROPOSED CURB & GUTTER
- 852.01 CONCRETE ISLANDS
- 866.01 CHAIN LINK FENCE

CLEARING:

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

SUPERELEVATION:

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

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.

DRIVEWAYS:

DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.03 AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.

STREET TURNOUT:

STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADIUS NOTED ON PLANS.

TEMPORARY SHORING:

SHORING IS NOT REFERENCED IN THE ROADWAY OR WORK ZONE TRAFFIC CONTROL PLANS BUT HAS BEEN INCLUDED AS A CONTINGENCY ITEM. SEE SHEET 2G-1 FOR THE TEMPORARY SHORING DETAIL SHEET.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE :

- GREENVILLE UTILITIES COMMISSION - WATER, SANITARY SEWER, POWER & GAS
- CENTURYLINK - TELEPHONE
- CONTERRA NETWORKS - TELEPHONE
- CROWN CASTLE FIBER - TELEPHONE
- SUDDENLINK - CATV

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

RIGHT-OF-WAY MARKERS:

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

CURB RAMPS

CURB RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. CONSTRUCT ALL CURB RAMPS IN ACCORDANCE WITH STD 848.05 AND/OR 848.06, AND/OR DETAILS IN THE PLANS.

U-5606  
PITT COUNTY

SHEET NUMBER	SHEET	INDEX OF SHEETS
I	TITLE SHEET	
IA	INDEX OF SHEETS, GENERAL NOTES, LIST OF ROADWAY STANDARD DRAWINGS	
IB	CONVENTIONAL SYMBOLS SHEET	
2A-1 THRU 2A-3	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND MISCELLANEOUS DETAILS	
2C-1 THRU 2C-3	CURB RAMP DETAILS	
2C-4	DETAIL FOR CONCRETE STEPS WITH HANDRAIL	
2C-5	DETAIL TO CONVERT EXISTING DI, CB, OTCB, OR GITO JUNCTION BOX	
2C-6	DETAIL FOR MINIMUM DEPTH CONCRETE CATCH BASIN	
2C-7	DETAIL FOR CONCRETE JUNCTION BOX WITH 8" PIPE PASSING THRU	
2C-8	DETAIL FOR ANTI-SEEP COLLAR	
2C-9	DETAIL FOR MINIMUM DEPTH DROP INLET	
2C-10	DETAIL FOR BRICK PAVER CROSSWALK	
2C-11	DETAIL FOR PEDESTRIAN HANDRAIL	
3B-1	SUMMARY OF EARTHWORK	
3B-2	SUMMARIES OF REMOVAL OF EXISTING ASPHALT PAVEMENT AND CONCRETE PAVEMENT	
3D-1 THRU 3D-6	SUMMARY OF DRAINAGE QUANTITIES	
3G-1	SUMMARY OF AGGREGATE SUBGRADE / STABILIZATION	
3P-1 THRU 3P-2	PARCEL INDEX SHEETS	
4 THRU 12	PLAN SHEETS	
13 THRU 18	PROFILE SHEETS	
RWO1 THRU RWI2	SURVEY CONTROL, EXISTING CENTERLINES, RIGHT OF WAY, EASEMENTS, AND PROPERTY TIES SHEETS	
TMP-1 THRU TMP-16	TRANSPORTATION MANAGEMENT PLANS	
PMP-1 THRU PMP-10	PAVEMENT MARKING PLANS	
E-1 THRU E-19	ELECTRICAL PLANS	
EC-1 THRU EC-20	EROSION CONTROL PLANS	
LA-1 THRU LA-24	LANDSCAPE PLANS	
SIGN-1 THRU SIGN-12	SIGNING PLANS	
SIG. 1.0 THRU SIG. 9.1	SIGNAL PLANS	
SIG. P1 THRU SIG. P3	STANDARD PUSHBUTTON PEDESTAL SHEETS	
SIG. M1 THRU SIG. M8	METAL POLE STANDARDS	
SCPI THRU SCPI3	SIGNAL COMMUNICATION PLANS	
UC-1 THRU UC-22	UTILITY CONSTRUCTION PLANS	
UO-1 THRU UO-10	UTILITIES BY OTHERS PLANS	
X-1	CROSS-SECTION INDEX	
X-1A THRU X-1B	CROSS-SECTION SUMMARY SHEETS	
X-2 THRU X-27	CROSS-SECTIONS	
W-1 THRU W-9	RETAINING WALL PLANS	

REVISIONS

K:\RAL\_Roadway\01036243 - U-5606 Dickinson Avenue Roadway\Proj\U5606\_rdy\_tsh.dgn

2/8/2022

# 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	(23)
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	-----MLB
Proposed Wetland Boundary	-----MLB
Existing Endangered Animal Boundary	-----EAB
Existing Endangered Plant Boundary	-----EPB
Existing Historic Property Boundary	-----HPB
Known Contamination Area: Soil	-----S-S
Potential Contamination Area: Soil	-----S-S
Known Contamination Area: Water	-----W-W
Potential Contamination Area: Water	-----W-W
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	-----JS
Buffer Zone 1	-----BZ 1
Buffer Zone 2	-----BZ 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	-----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

## ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-----C
Proposed Slope Stakes Fill	-----F
Proposed Curb Ramp	-----
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	-----

## 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)*	-----P
U/G Power Line (SUE - LOS C)*	-----P
U/G Power Line (SUE - LOS D)*	-----P

## 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)*	-----T
U/G Telephone Cable (SUE - LOS C)*	-----T
U/G Telephone Cable (SUE - LOS D)*	-----T
U/G Telephone Conduit (SUE - LOS B)*	-----TC
U/G Telephone Conduit (SUE - LOS C)*	-----TC
U/G Telephone Conduit (SUE - LOS D)*	-----TC
U/G Fiber Optics Cable (SUE - LOS B)*	-----T FO
U/G Fiber Optics Cable (SUE - LOS C)*	-----T FO
U/G Fiber Optics Cable (SUE - LOS D)*	-----T FO

## 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	-----A/G Water

## 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)*	-----TV
U/G TV Cable (SUE - LOS C)*	-----TV
U/G TV Cable (SUE - LOS D)*	-----TV
U/G Fiber Optic Cable (SUE - LOS B)*	-----TV FO
U/G Fiber Optic Cable (SUE - LOS C)*	-----TV FO
U/G Fiber Optic Cable (SUE - LOS D)*	-----TV FO

## GAS:

Gas Valve	◇
Gas Meter	⊕
U/G Gas Line Test Hole (SUE - LOS A)*	⊙
U/G Gas Line (SUE - LOS B)*	-----G
U/G Gas Line (SUE - LOS C)*	-----G
U/G Gas Line (SUE - LOS D)*	-----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 Force Main Line Test Hole (SUE - LOS A)*	⊙
SS Force Main Line (SUE - LOS B)*	-----FSS
SS Force Main Line (SUE - LOS C)*	-----FSS
SS Force Main Line (SUE - LOS D)*	-----FSS

## MISCELLANEOUS:

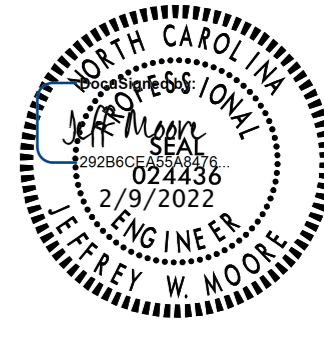
Utility Pole	●
Utility Pole with Base	⊠
Utility Located Object	○
Utility Traffic Signal Box	⊠
Utility Unknown U/G Line (SUE - LOS B)*	-----UTL
U/G Tank; Water, Gas, Oil	-----
Underground Storage Tank, Approx. Loc.	-----UST
A/G Tank; Water, Gas, Oil	-----
Geoenvironmental Boring	⊕
Abandoned According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

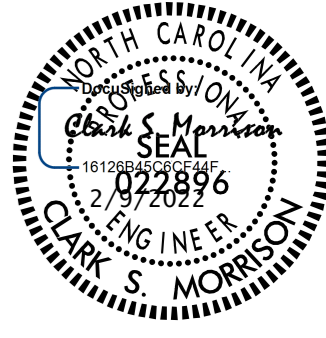




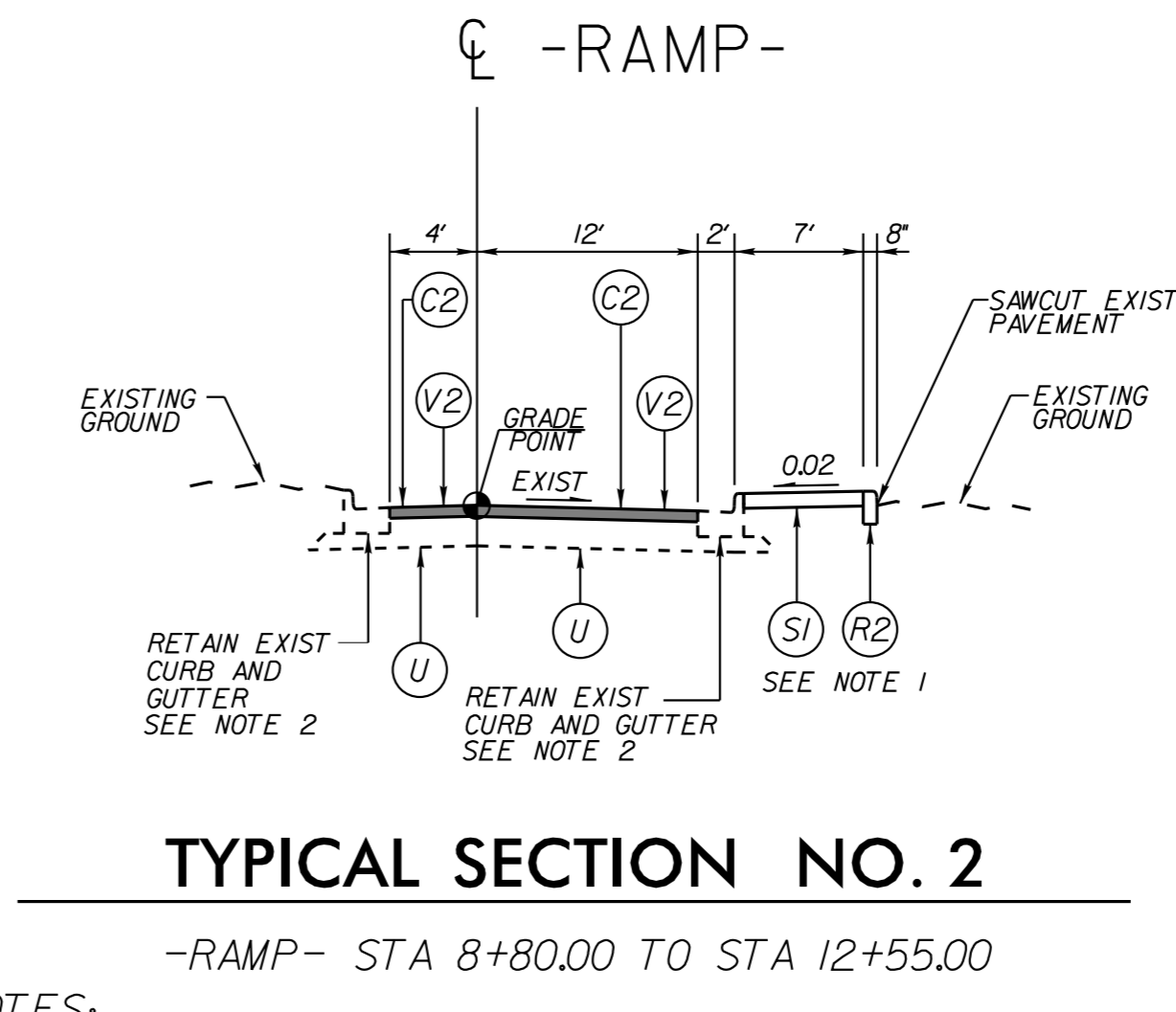
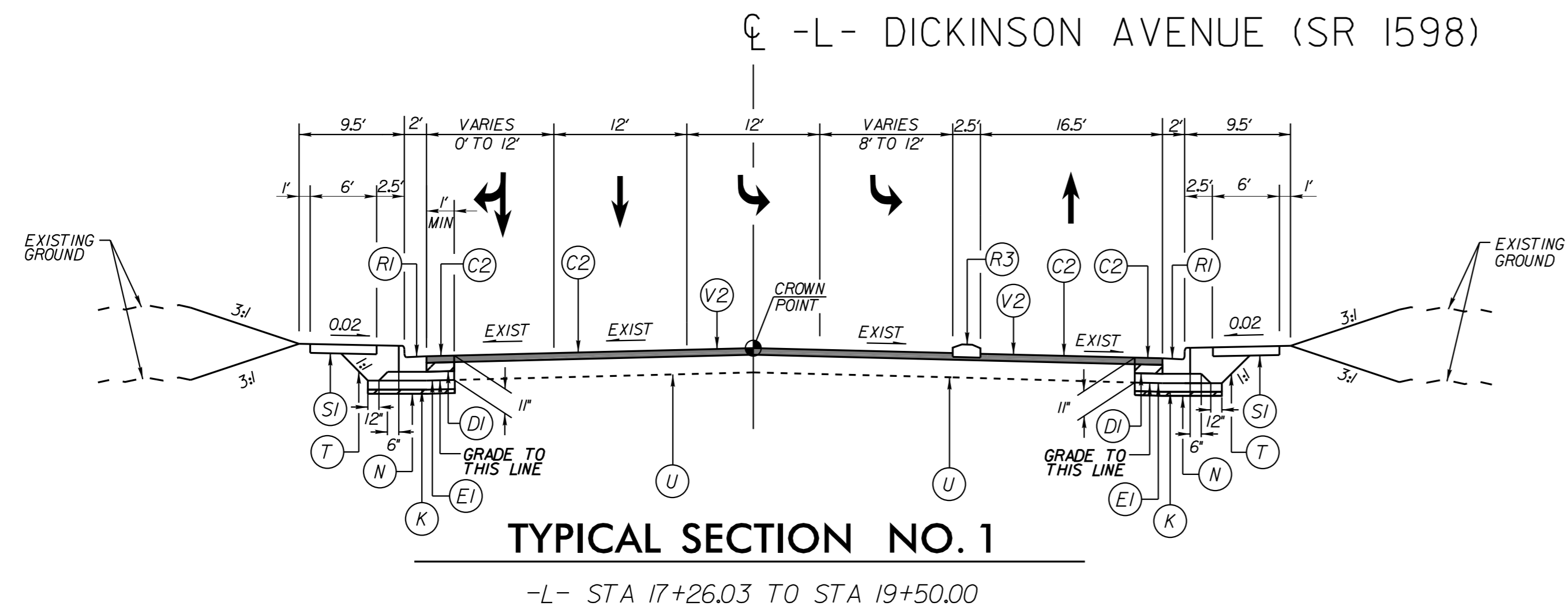
421 FAYETTEVILLE STREET, SUITE 600  
RALEIGH, NC 27601

PROJECT REFERENCE NO. U-5606	SHEET NO. 2A-1
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER





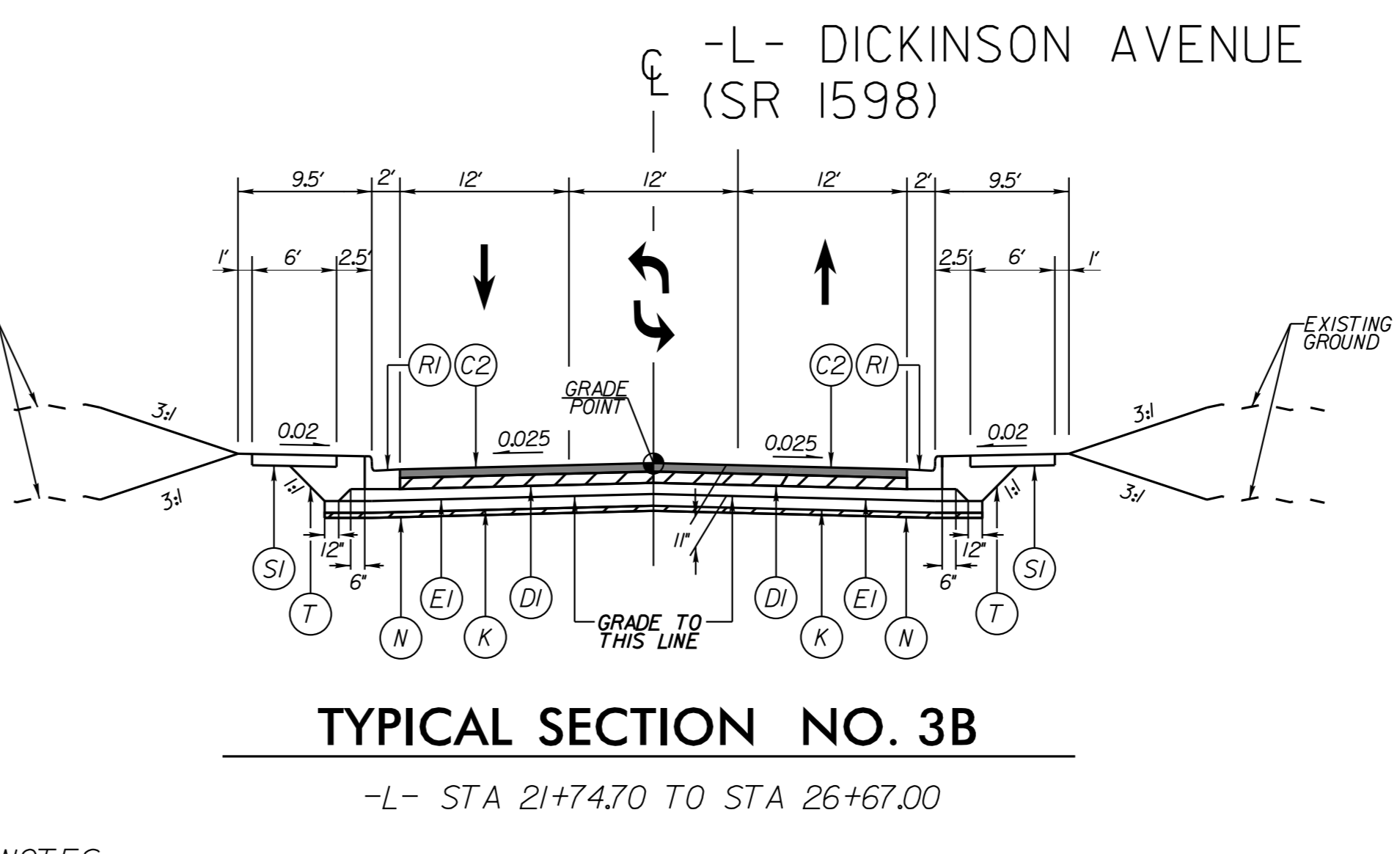
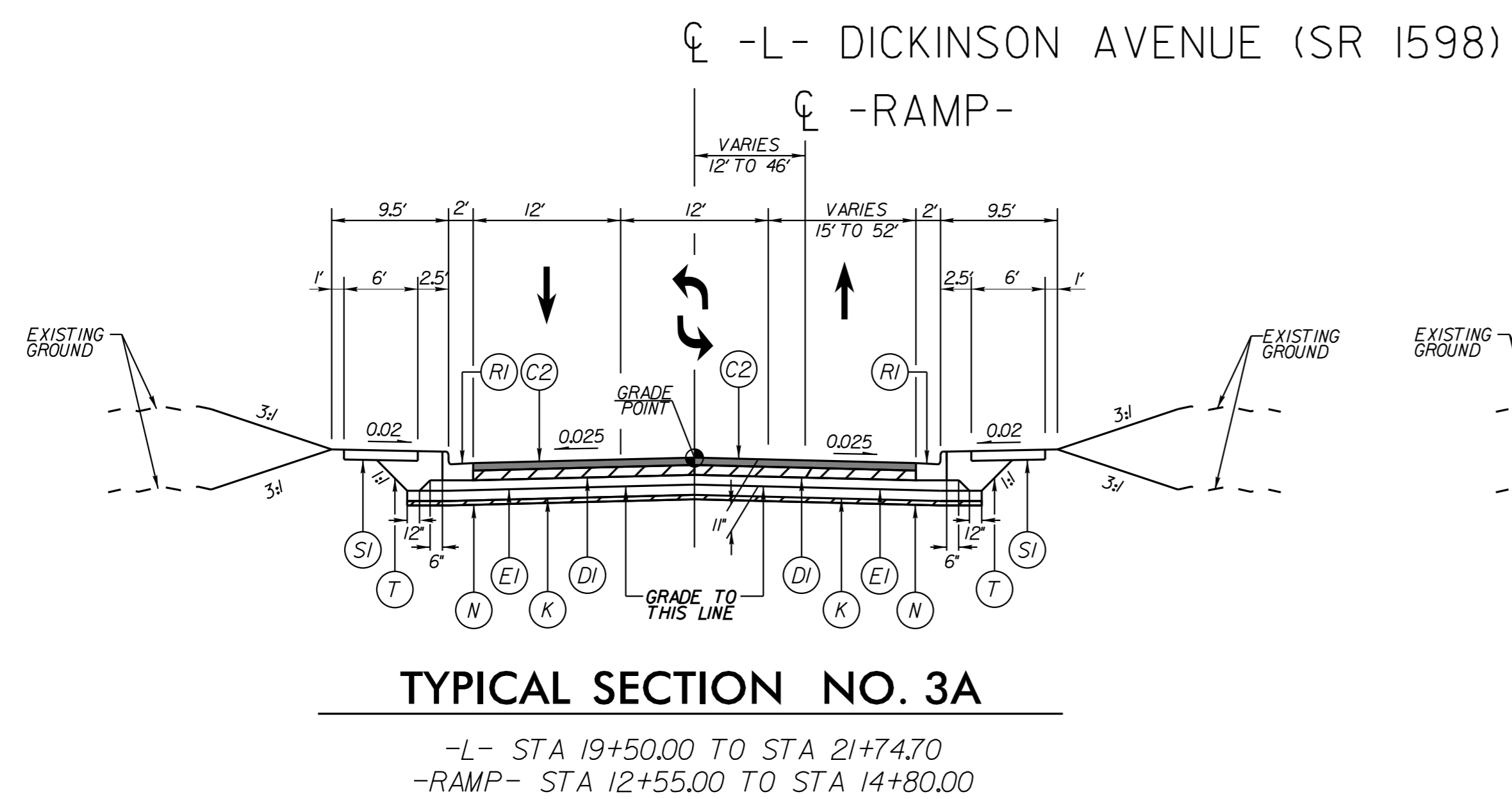
DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



**NOTES:**  
 1. SIDEWALK AND 8" X 18" CURB ONLY TO BE CONSTRUCTED FROM -RAMP- STA 11+47.00 TO 12+55.00  
 2. REPLACE CURB AND GUTTER FOR CURB RAMP FROM -RAMP- STA 11+40.00 TO 11+59.00 LT/RT

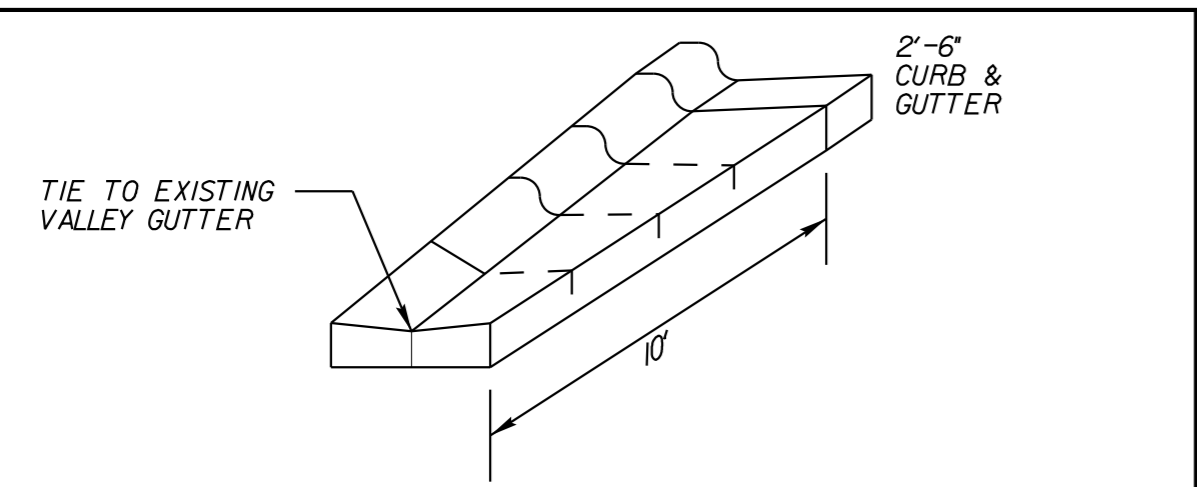
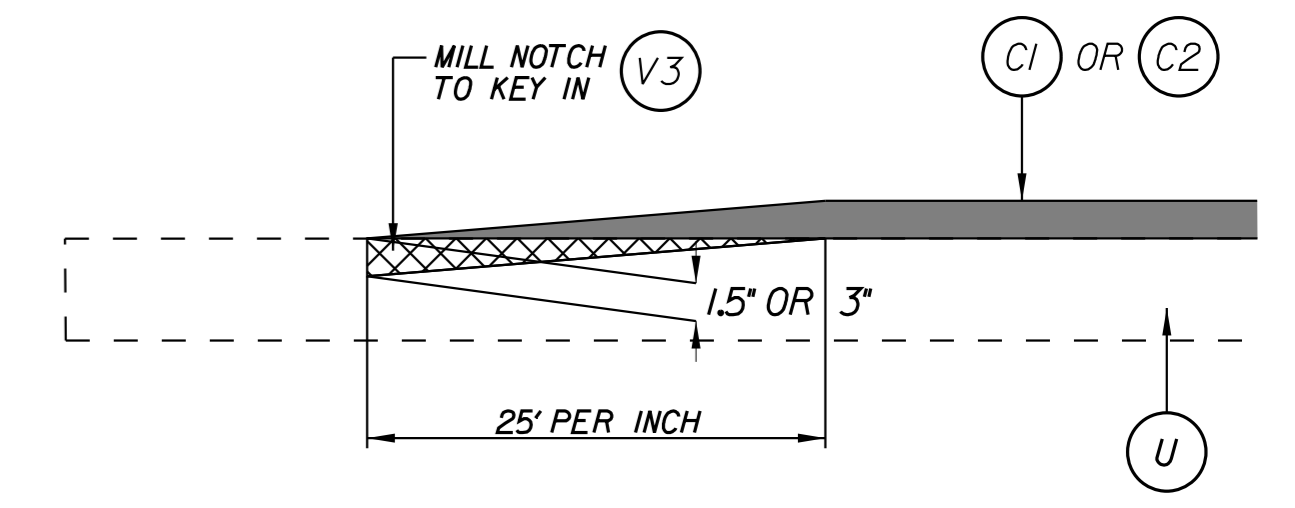
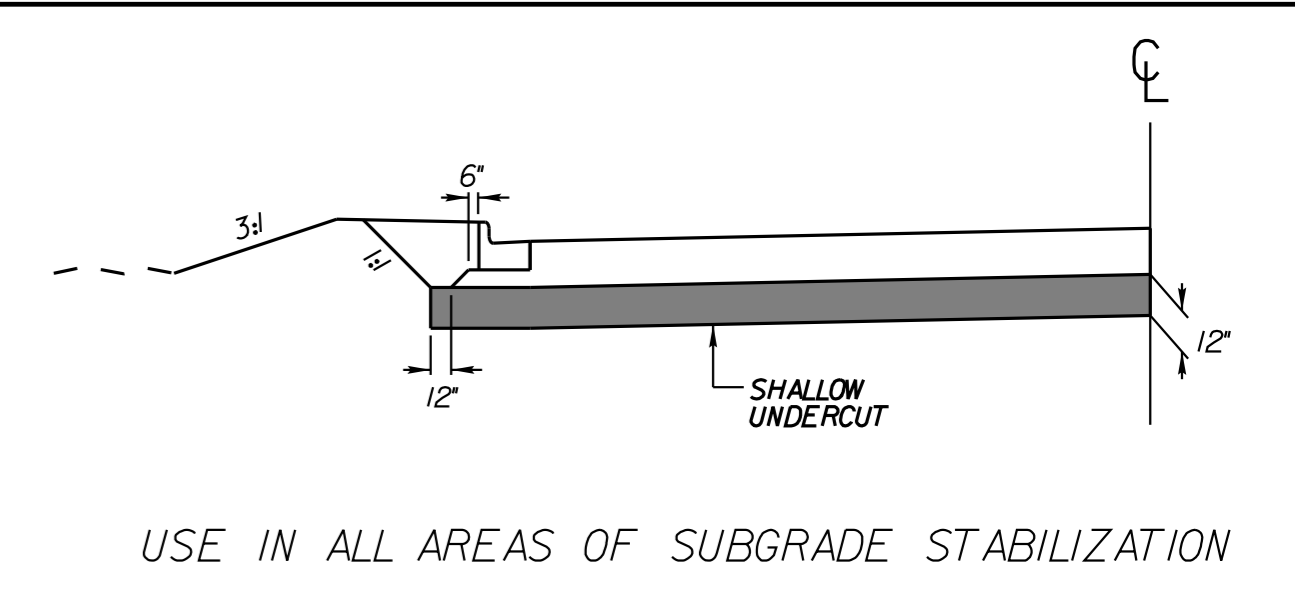
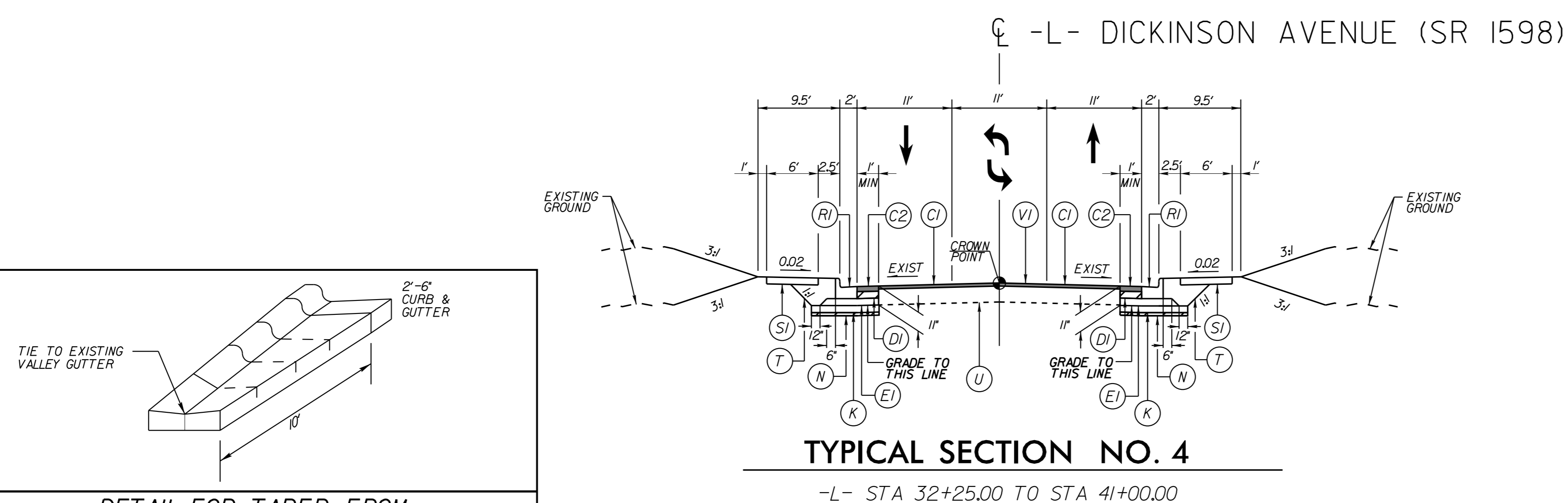
PAVEMENT SCHEDULE (FINAL PAVEMENT DESIGN)	
C1	PROPOSED APPROX 1.5" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	PROPOSED APPROX 3" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
DI	PROPOSED APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
EI	PROPOSED APPROX. 4" ASPHALT CONCRETE BASE COURSE TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
K	PROPOSED 12" CLASS IV SUBGRADE STABILIZATION
N	GEOTEXTILE FOR SOIL STABILIZATION, TYPE 4
RI	PROPOSED 2'-6" CONCRETE CURB & GUTTER
R2	PROPOSED 8" X 18" CONCRETE CURB
R3	PROPOSED 5" MONOLITHIC CONCRETE ISLAND (KEYED-IN)
SI	PROPOSED 4" CONCRETE SIDEWALK
S2	PROPOSED CONCRETE/BRICK PAVER SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V1	MILLING ASPHALT PAVEMENT, 1.5" DEPTH
V2	MILLING ASPHALT PAVEMENT, 3" DEPTH
V3	INCIDENTAL MILLING (SEE DETAIL, THIS SHEET)

PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE NOTED



**NOTES:**  
 1. REMOVE EXIST ASPHALT AND CONCRETE PAVEMENT TO SUBGRADE  
 2. LANE WIDTHS VARY THROUGH INTERSECTION FROM -L- STA 26+67.00 TO 27+50.00

REMOVE EXIST ASPHALT AND CONCRETE PAVEMENT TO SUBGRADE



REVISIONS

K:\RAL\_Roadway\01036243 - U-5606 Dickinson Avenue\Roadway\Proj\U5606\_rdy\_1y.dgn 2/9/2022

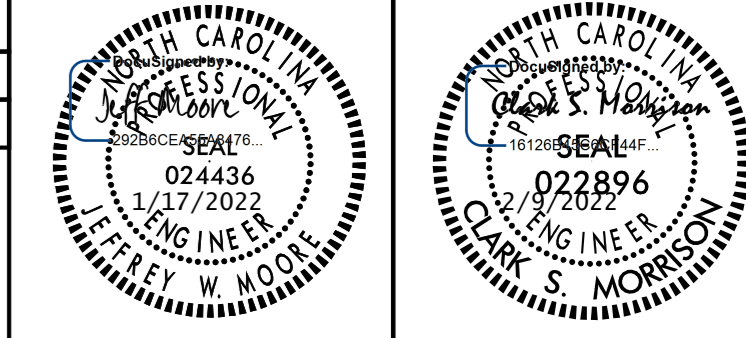


**Kimley»Horn**  
 421 FAYETTEVILLE STREET, SUITE 600  
 RALEIGH, NC 27601

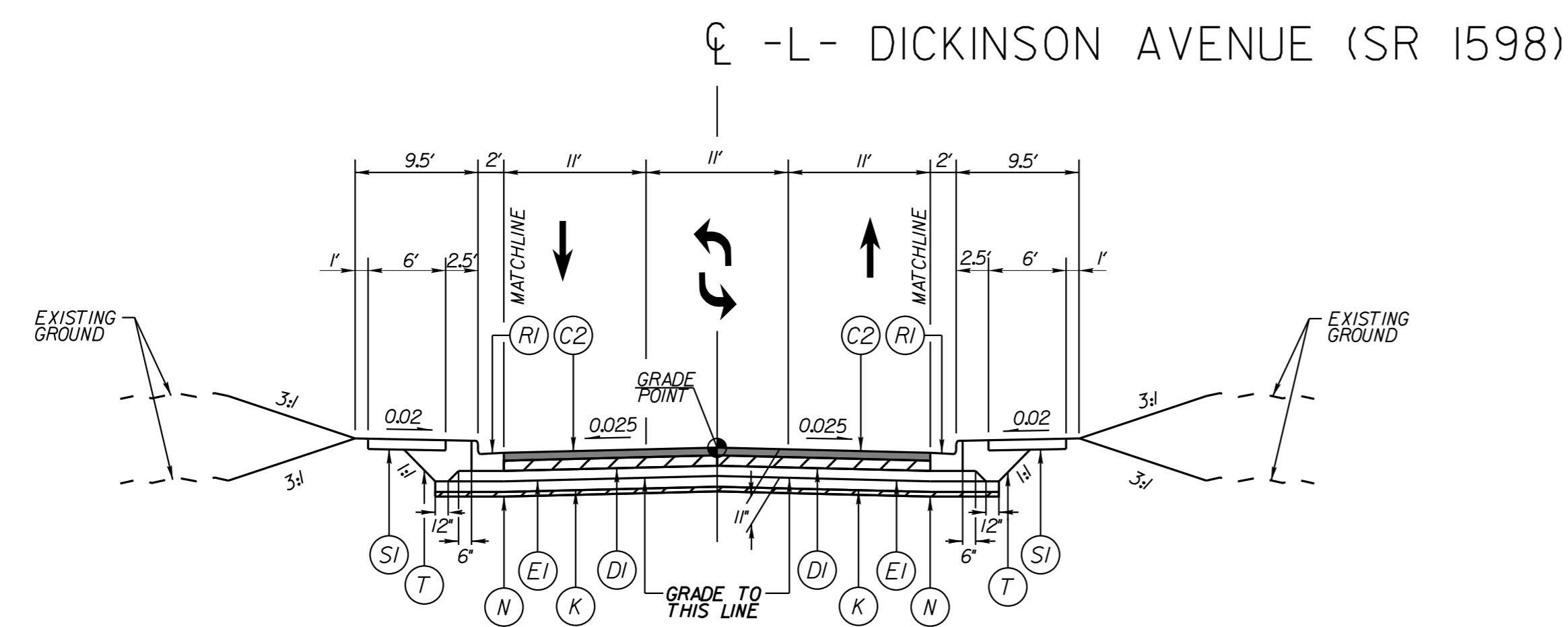
PROJECT REFERENCE NO. U-5606  
 SHEET NO. 2A-2

ROADWAY DESIGN ENGINEER  
 PAVEMENT DESIGN ENGINEER

RIGHT-OF-WAY REV.  
 CONST. REV.



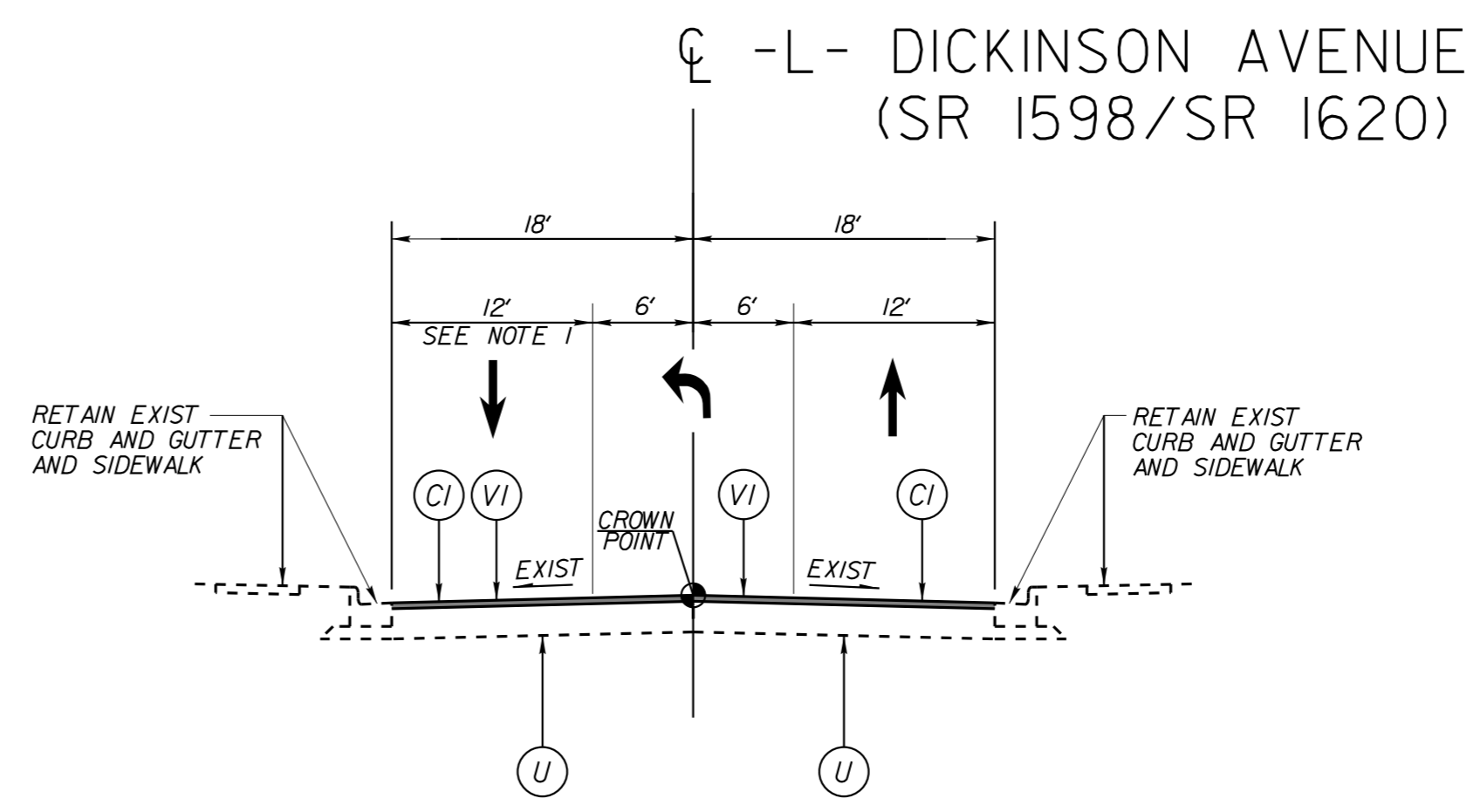
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**TYPICAL SECTION NO. 5**

-L- STA 27+50.00 TO STA 32+25.00  
 -L- STA 41+00.00 TO STA 65+99.35

REMOVE EXIST ASPHALT AND CONCRETE PAVEMENT TO SUBGRADE



**TYPICAL SECTION NO. 6**

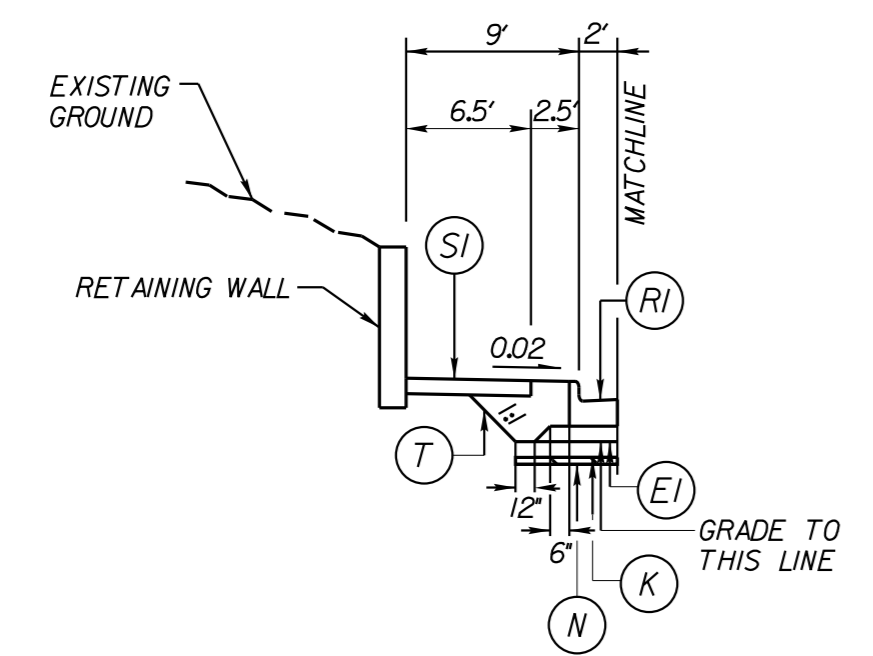
-L- STA 65+99.35 TO STA 70+41.60  
 -L- STA 70+54.84 TO STA 72+50.00

NOTES:  
 1. LANE WIDTHS VARY THROUGH  
 INTERSECTION FROM  
 -L- STA 65+99.35 TO 66+46.58

**PAVEMENT SCHEDULE**  
 (FINAL PAVEMENT DESIGN)

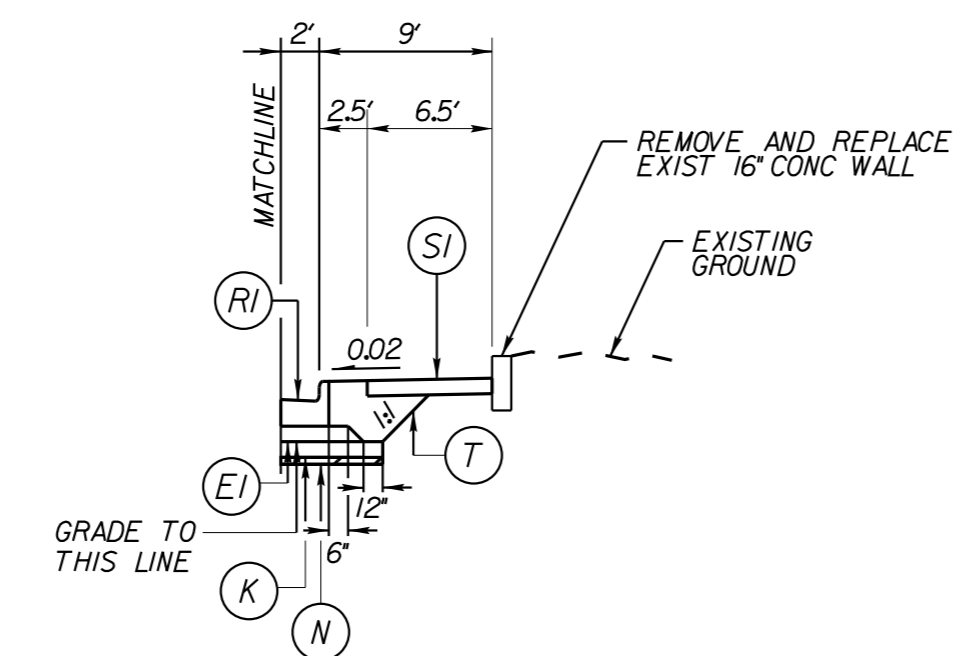
C1	1.5" S9.5B
C2	3" S9.5B
DI	4" I19.0C
E1	4" B25.0C
K	12" CLASS IV SUBGRADE STABILIZATION
N	GEOTEXTILE FOR SOIL STABILIZATION, TYPE 4
RI	2'-6" CONCRETE CURB & GUTTER
R2	8" x 18" CONCRETE CURB
R3	5" MONOLITHIC CONCRETE ISLAND (KEYED-IN)
SI	4" CONCRETE SIDEWALK
S2	CONCRETE/BRICK PAVER SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
VI	MILLING ASPHALT PAVEMENT, 1.5" DEPTH
V2	MILLING ASPHALT PAVEMENT, 3" DEPTH
V3	INCIDENTAL MILLING

PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE NOTED



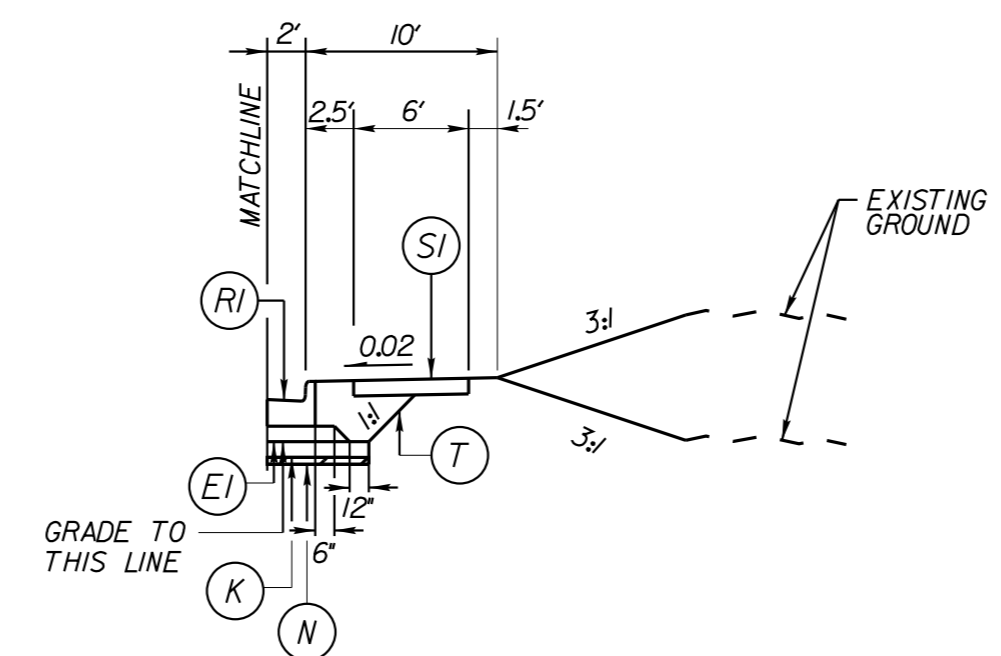
**TYPICAL SECTION NO. 5A**

-L- STA 28+00.00 TO STA 28+93.65 (RT)  
 -L- STA 28+85.00 TO STA 29+64.37 (LT)  
 -L- STA 29+00.32 TO STA 29+48.90 (RT)  
 -L- STA 31+49.63 TO STA 32+94.00 (LT)



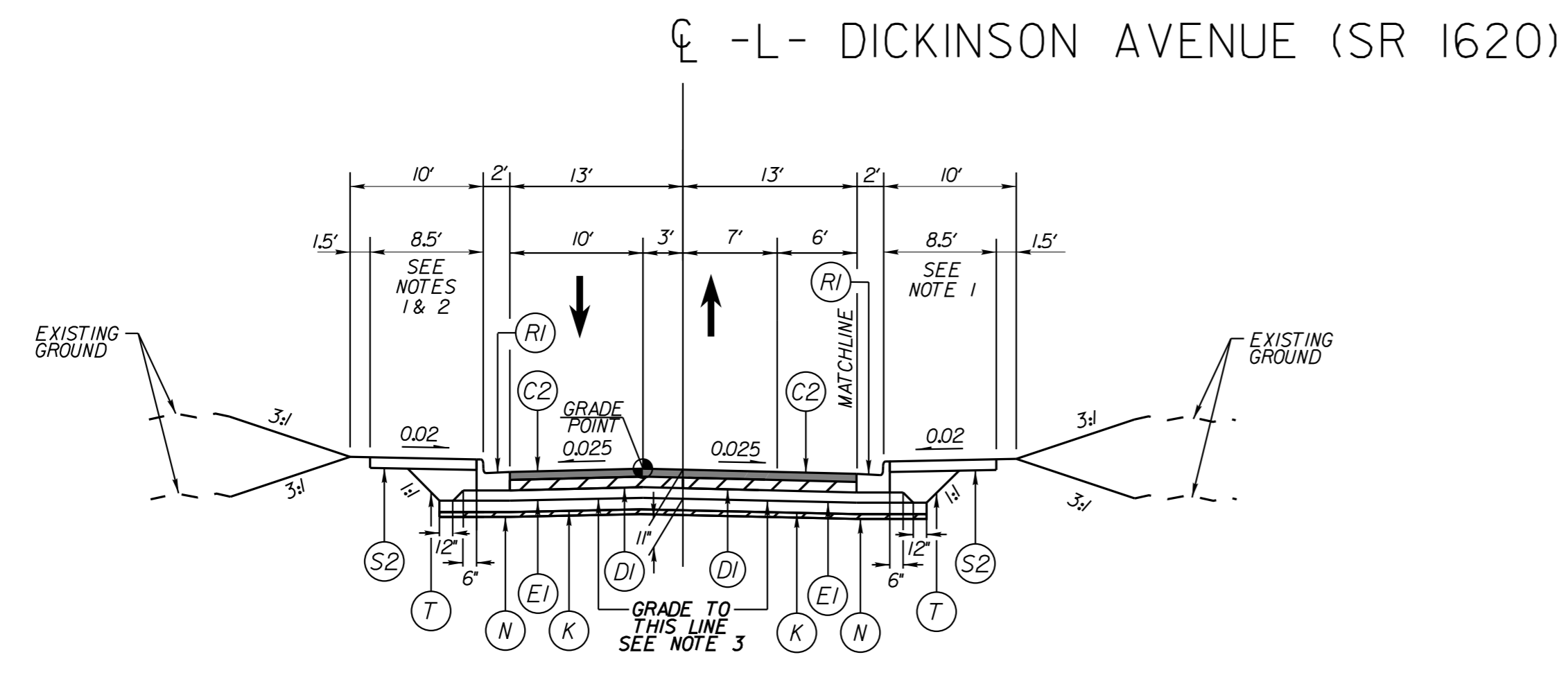
**TYPICAL SECTION NO. 5B**

-L- STA 57+29.86 TO STA 57+63.94 (RT)



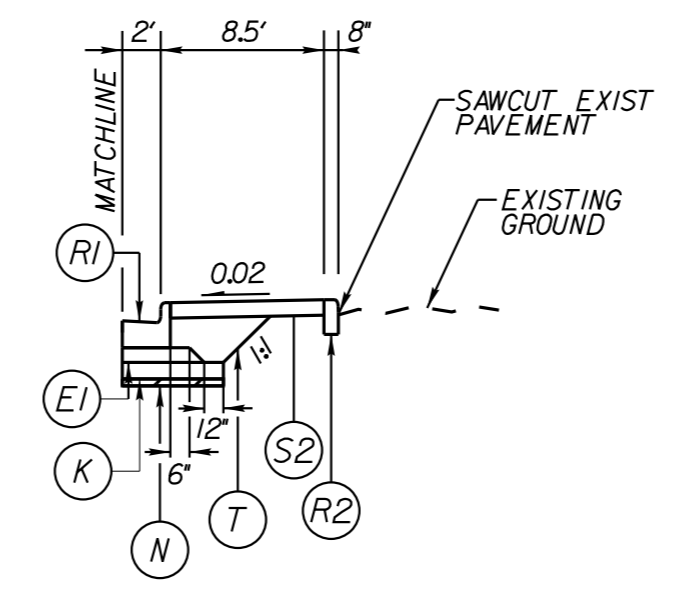
**TYPICAL SECTION NO. 5C**

-L- STA 59+26.66 TO STA 65+81.15 (RT)  
 -L- STA 59+42.63 TO STA 61+93.65 (LT)  
 -L- STA 64+87.69 TO STA 65+99.35 (LT)



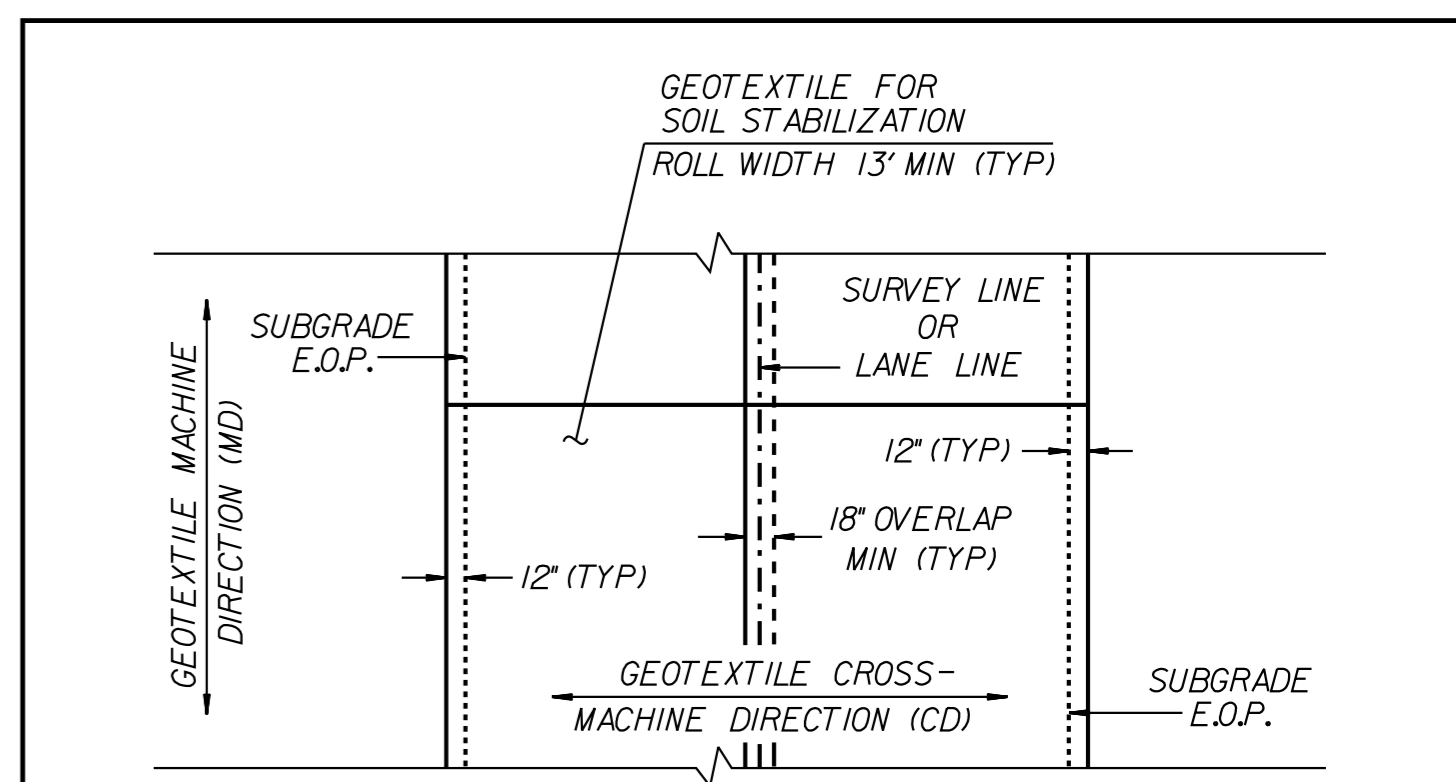
**TYPICAL SECTION NO. 7**

-L- STA 72+50.00 TO STA 85+21.72



**TYPICAL SECTION NO. 7A**

-L- STA 81+02.95 TO STA 81+90.00



NOTES:  
 1. SIDEWALK TO EXTEND TO BUILDING FACE WHERE APPLICABLE  
 2. RETAIN EXIST CURB AND GUTTER AND SIDEWALK FROM -L- STA 72+50.00 TO 73+01.66 (LT),  
 FROM -L- STA 82+94.45 TO 83+33.64 (RT), AND FROM -L- STA 85+03.62 TO 85+21.72 (LT)  
 3. REMOVE EXIST ASPHALT AND CONCRETE PAVEMENT TO SUBGRADE

REVISIONS

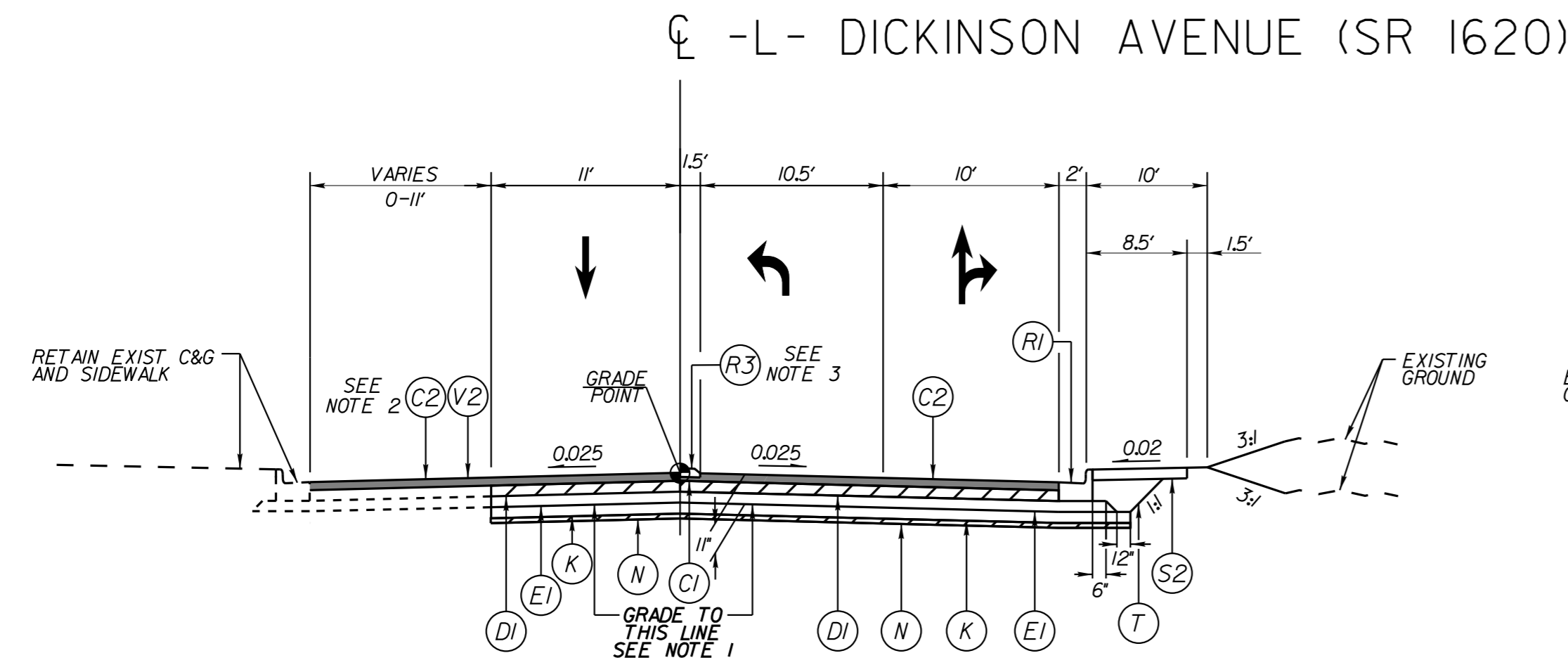
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1/17/2022





**DOCUMENT NOT CONSIDERED FINAL  
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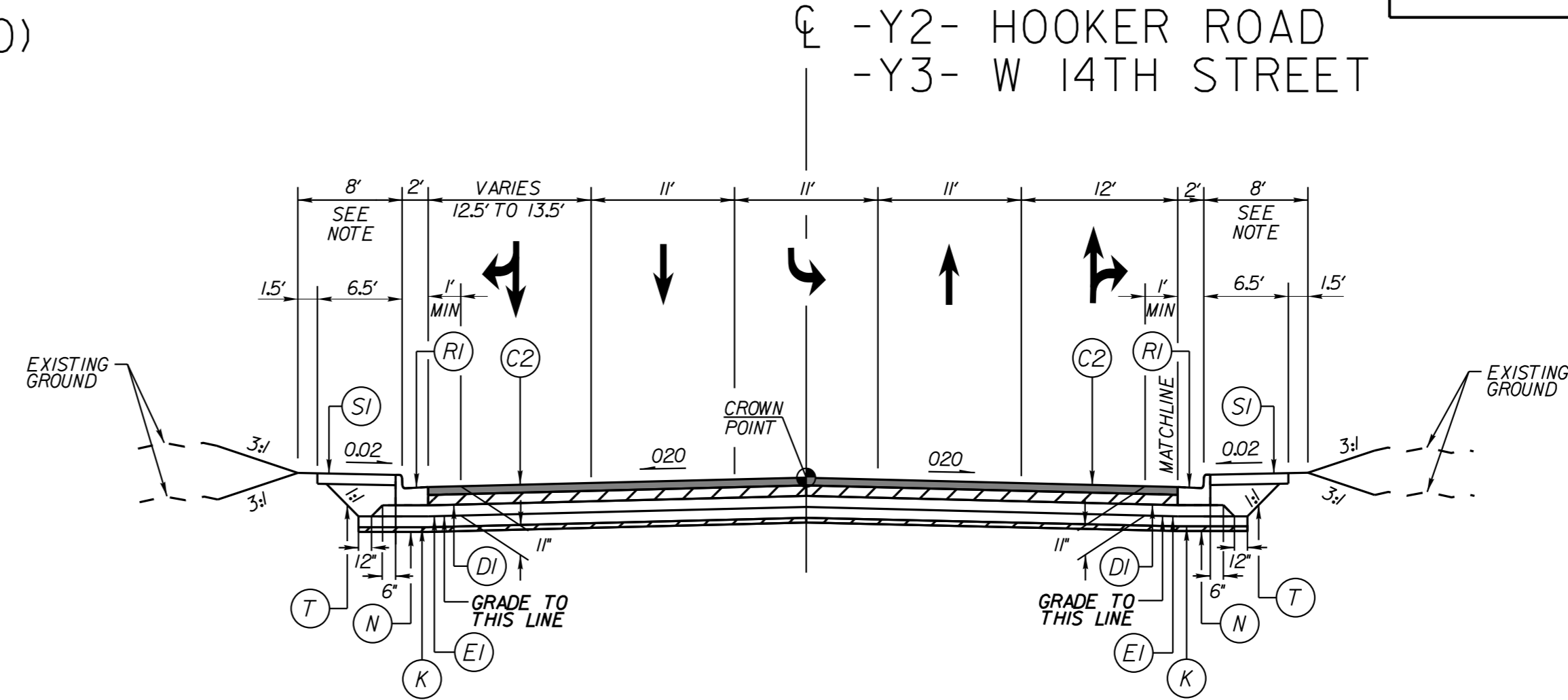


**TYPICAL SECTION NO. 8**

-L- STA 85+21.72 TO STA 88+35.00

**NOTES:**

1. REMOVE EXIST ASPHALT AND CONCRETE PAVEMENT TO SUBGRADE
2. MILL AND RESURFACE EXIST ASPHALT PAVEMENT (3") FROM -L- STA 87+30.37 TO 88+25.00 (LT)
3. PROPOSED CONCRETE ISLAND FROM -L- STA 85+58.81 TO 86+43.81 (RT)

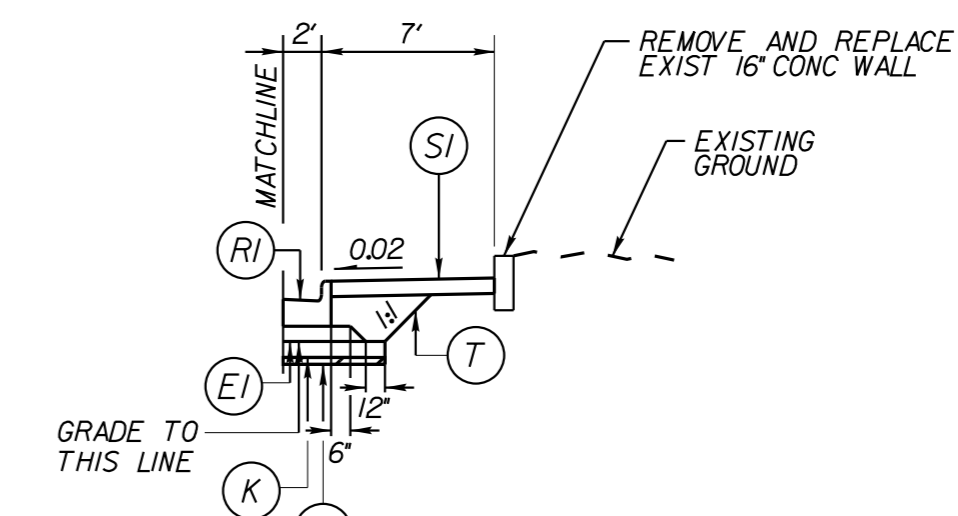


**TYPICAL SECTION NO. 9**

-Y2- STA 10+80.00 TO STA 11+23.00  
-Y2- STA 12+15.00 TO STA 13+41.00  
-Y3- STA 11+34.00 TO STA 11+83.50  
-Y3- STA 12+16.50 TO STA 12+82.00

**NOTES:**

1. REMOVE EXIST ASPHALT AND CONCRETE PAVEMENT TO SUBGRADE
2. RETAIN EXIST SIDEWALK AND 2'-6" CURB AND GUTTER FROM -Y2- STA 12+81.00 TO 13+41.00 AND FROM -Y3- STA 12+67.00 TO 12+82.00



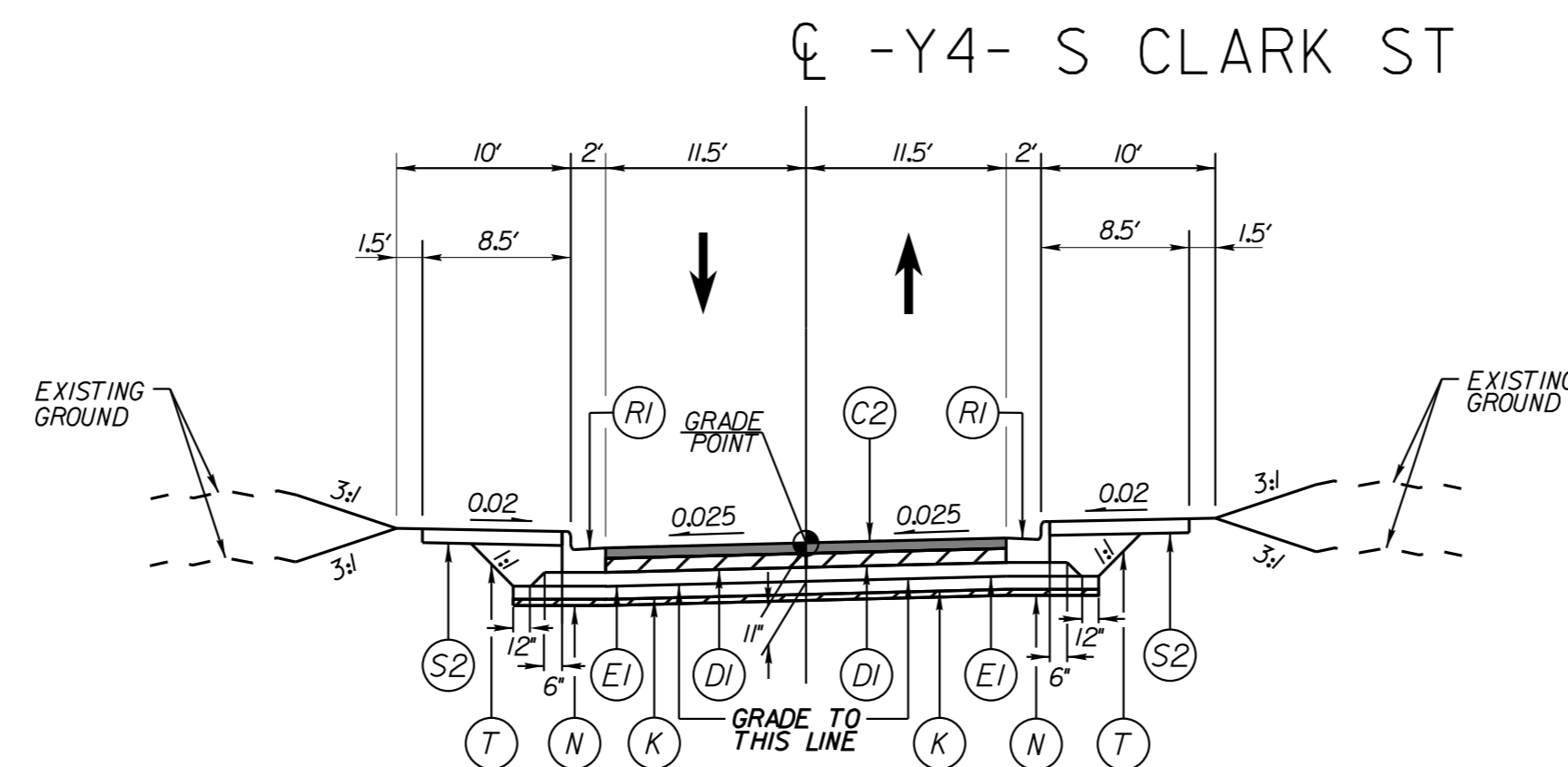
**TYPICAL SECTION NO. 9A**

-Y3- STA 12+36.07 TO STA 12+67.01 (RT)

**PAVEMENT SCHEDULE**  
(FINAL PAVEMENT DESIGN)

C1	1.5" S9.5B
C2	3" S9.5B
D1	4" I19.0C
E1	4" B25.0C
K	12" CLASS IV SUBGRADE STABILIZATION
N	GEOTEXTILE FOR SOIL STABILIZATION, TYPE 4
R1	2'-6" CONCRETE CURB & GUTTER
R2	8' x 18" CONCRETE CURB
R3	5' MONOLITHIC CONCRETE ISLAND (KEYED-IN)
S1	4" CONCRETE SIDEWALK
S2	CONCRETE/BRICK PAVER SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V1	MILLING ASPHALT PAVEMENT, 1.5' DEPTH
V2	MILLING ASPHALT PAVEMENT, 3' DEPTH
V3	INCIDENTAL MILLING

PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE NOTED



**TYPICAL SECTION NO. 10**

-Y4- STA 11+00.00 TO STA 12+12.31  
REMOVE EXIST ASPHALT AND CONCRETE PAVEMENT TO SUBGRADE

REVISIONS

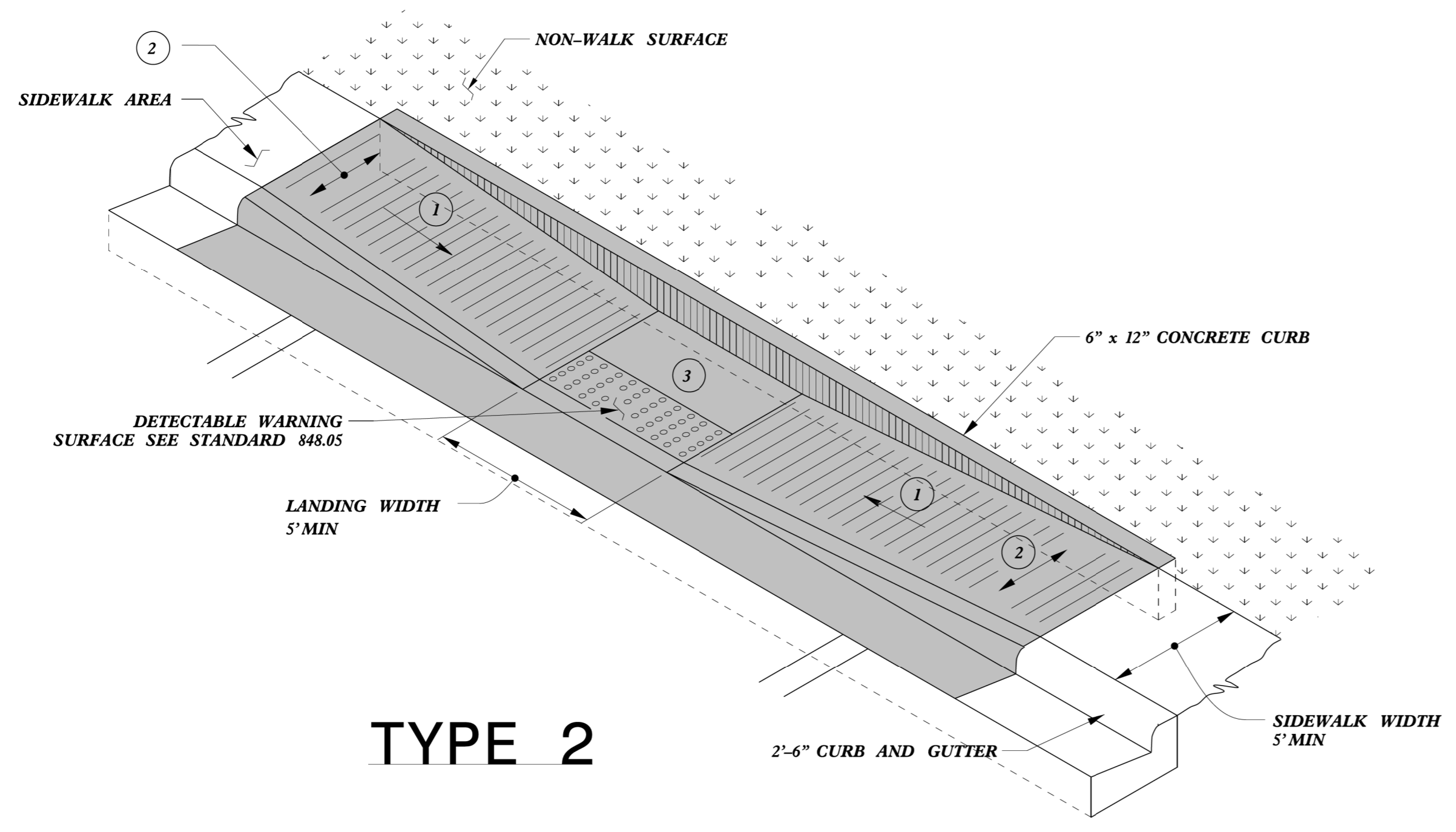
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1/17/2022





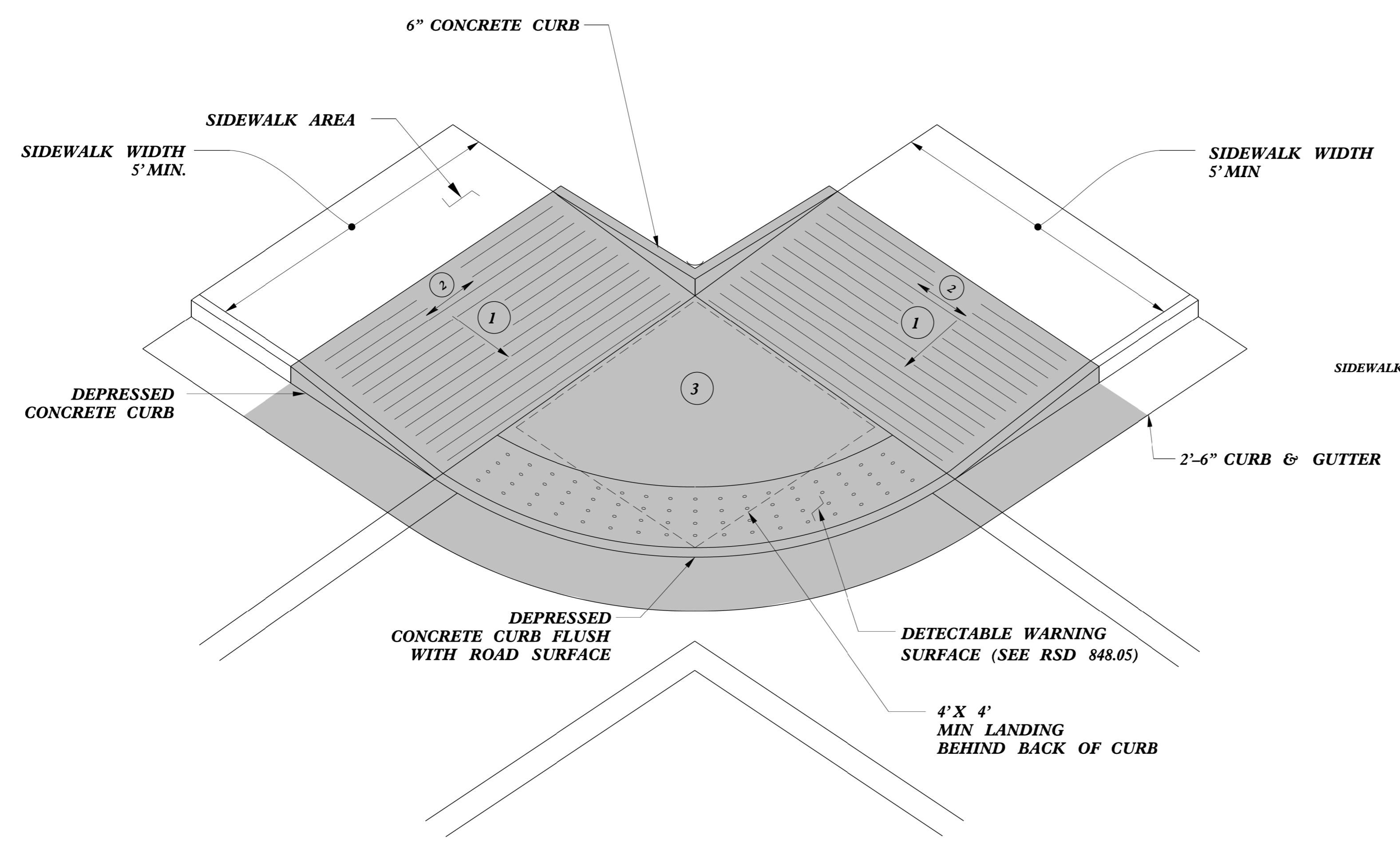




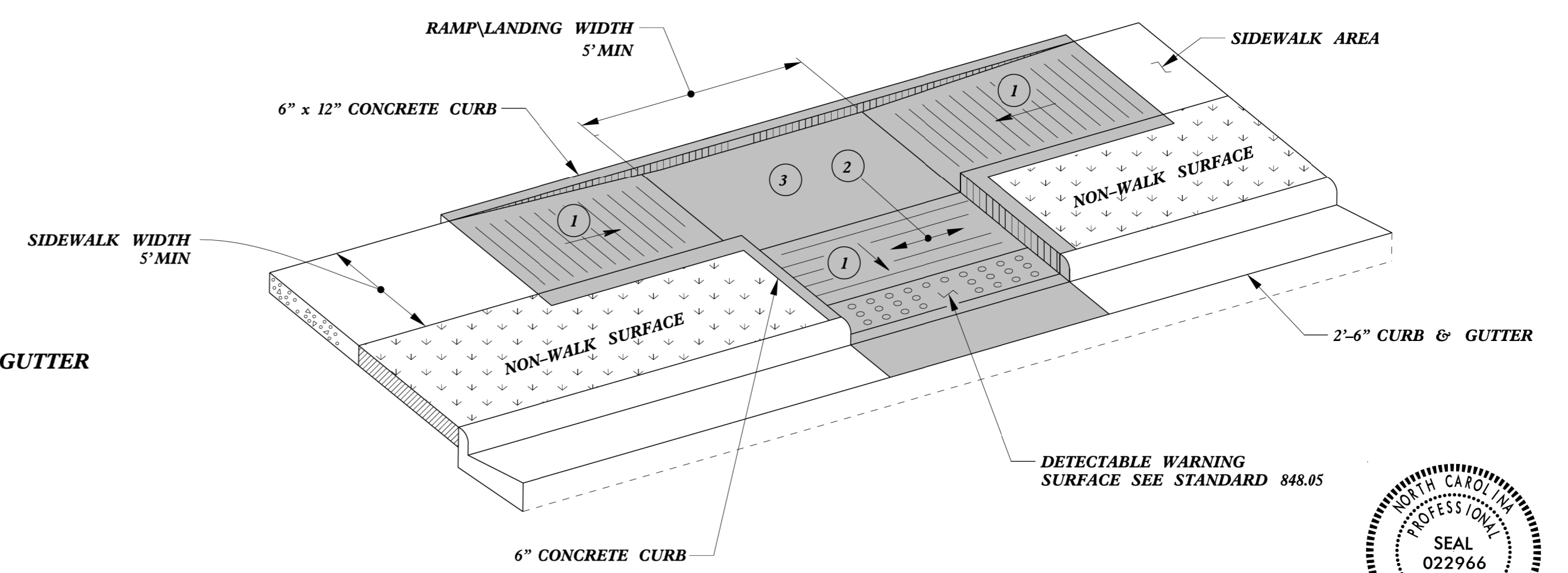
**TYPE 2**

PAY LIMITS FOR 1 CURB RAMP

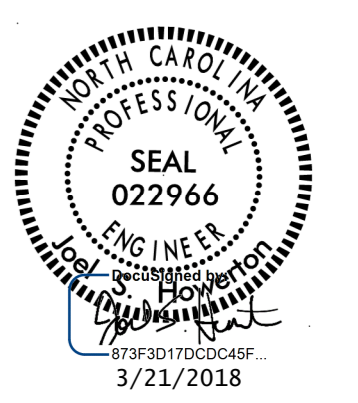
- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.



**TYPE 2A**



**TYPE 3**



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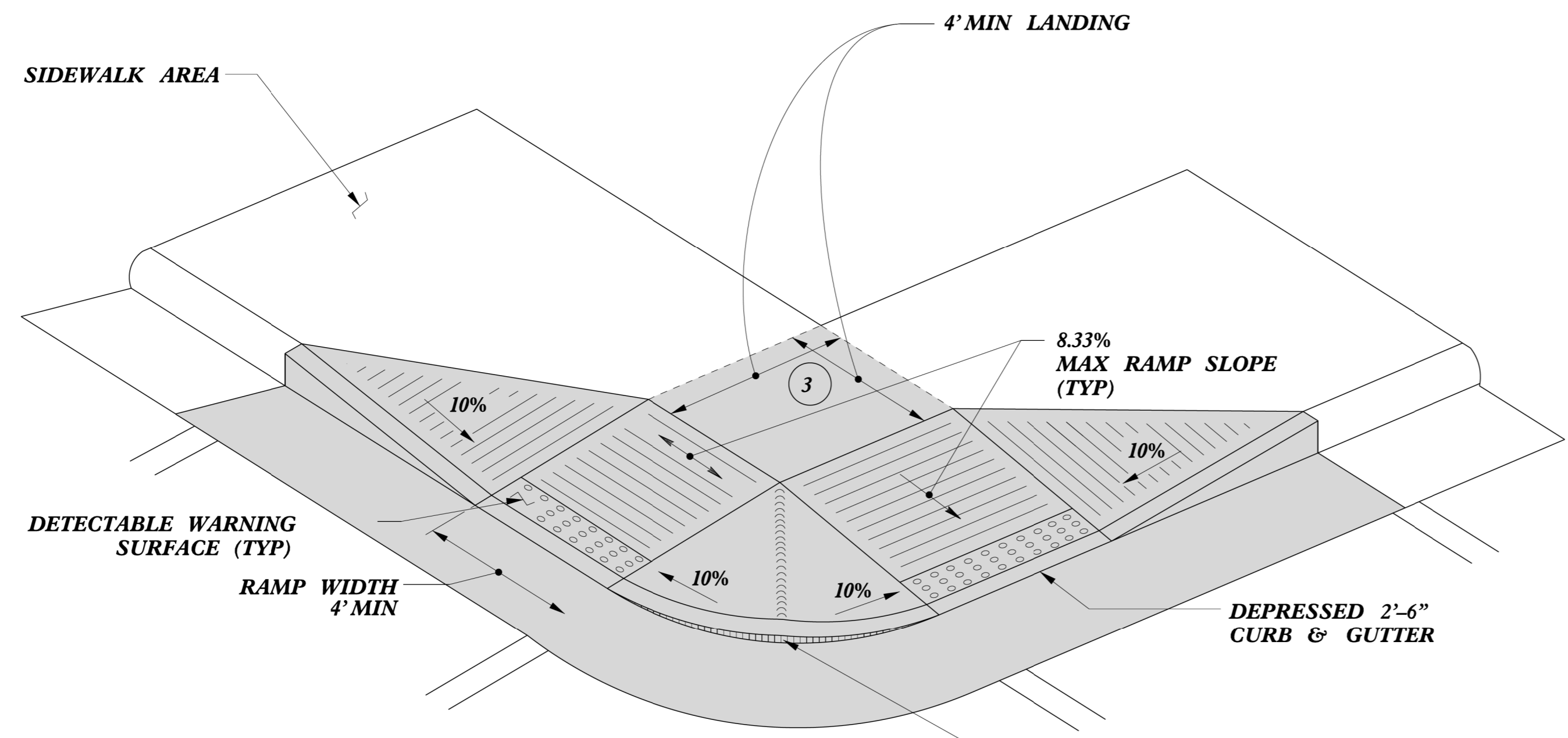
**CURB RAMPS**  
Parallel Ramps

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 MODIFIED BY: DATE:  
 CHECKED BY: DATE:  
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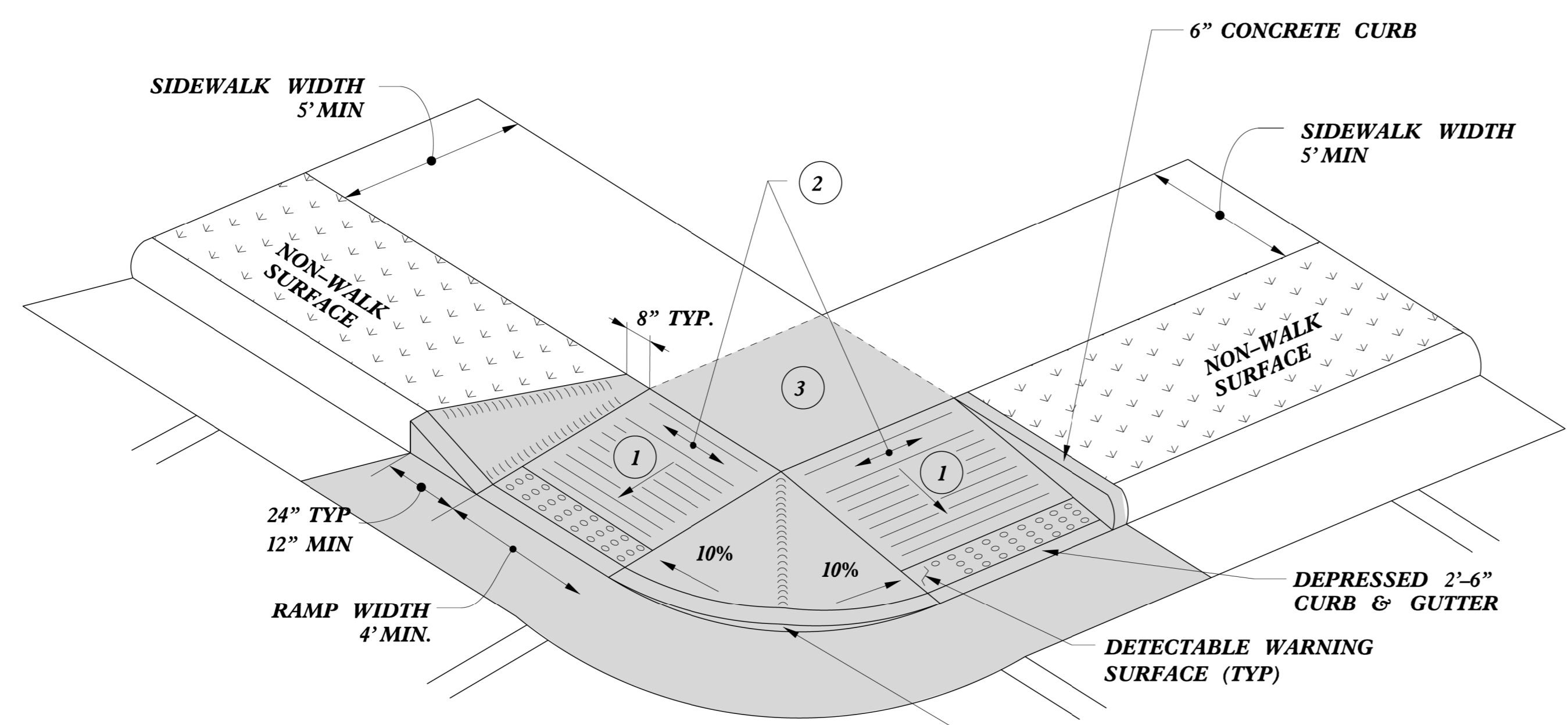
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5/14/11  
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J.S. HOWERTON  
3/21/2018

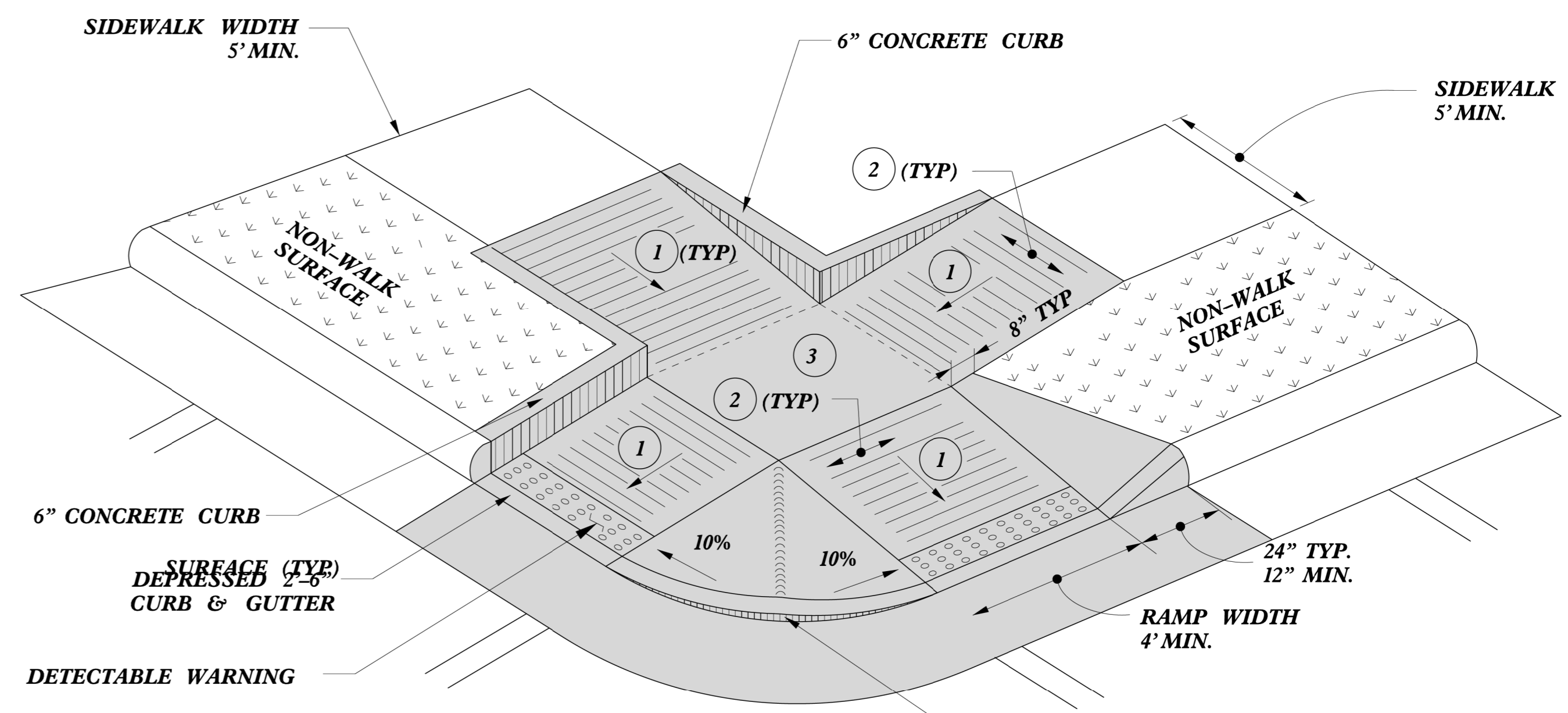




**TYPE 4**



**TYPE 4A**



**TYPE 5**

**PAY LIMITS FOR 2 CURB RAMPS**

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE: 2.00%
- 3 CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.



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**CURB RAMPS**  
Shared Landing

ORIGINAL BY: J.S. HOWERTON DATE: 7/7/11  
MODIFIED BY: DATE:  
CHECKED BY: DATE:  
FILE SPEC: stds/2012CurbRamp/CurbRampDetails.dgn

REFER TO ROADWAY STANDARD DRAWING NUMBER 848.05 SHEET 3 OF 3 FOR ALL RAMP NOTES

5/14/19  
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STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR  
**CONCRETE STEPS WITH HANDRAIL**

SHEET 1 OF 1  
**844D01**

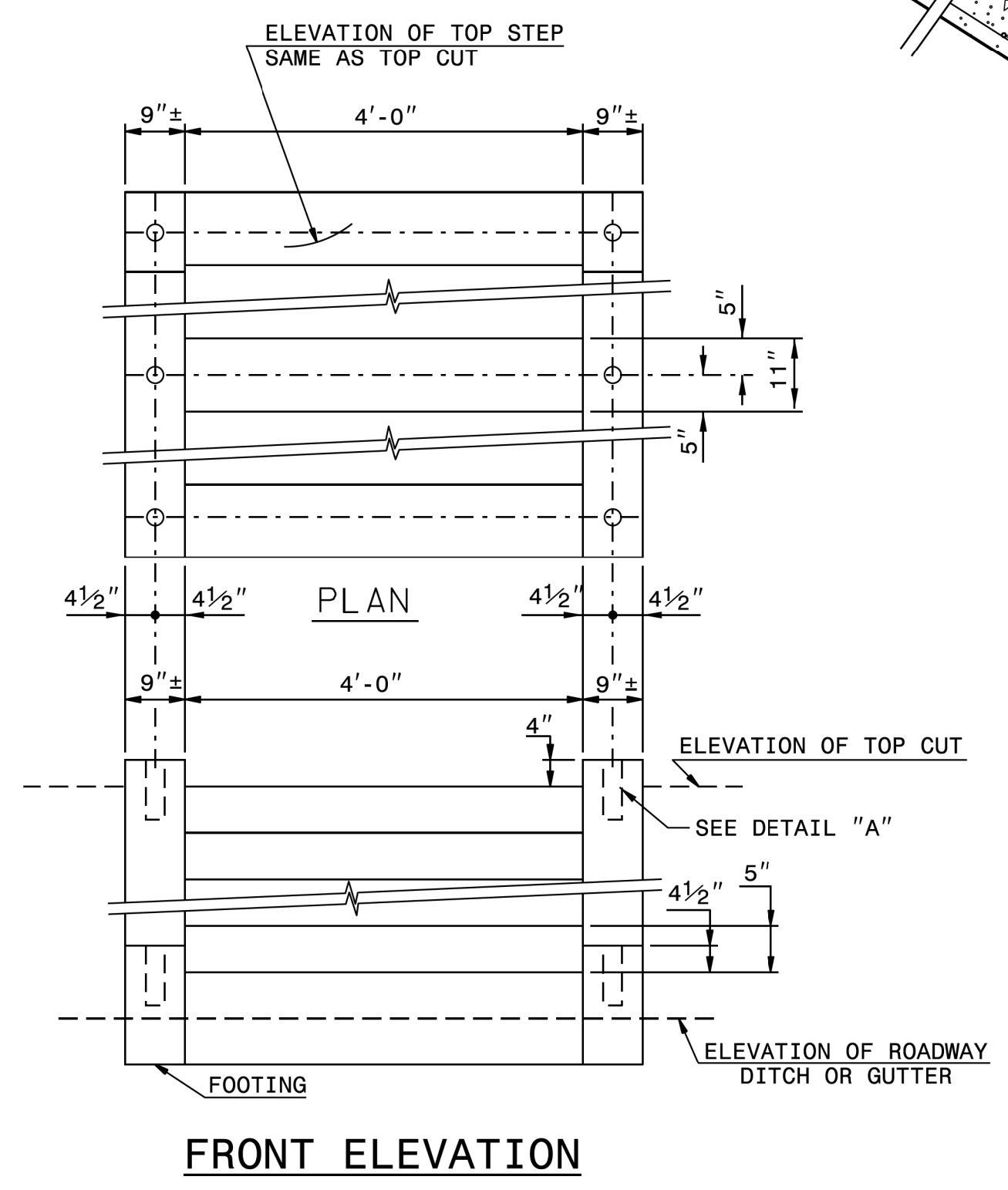
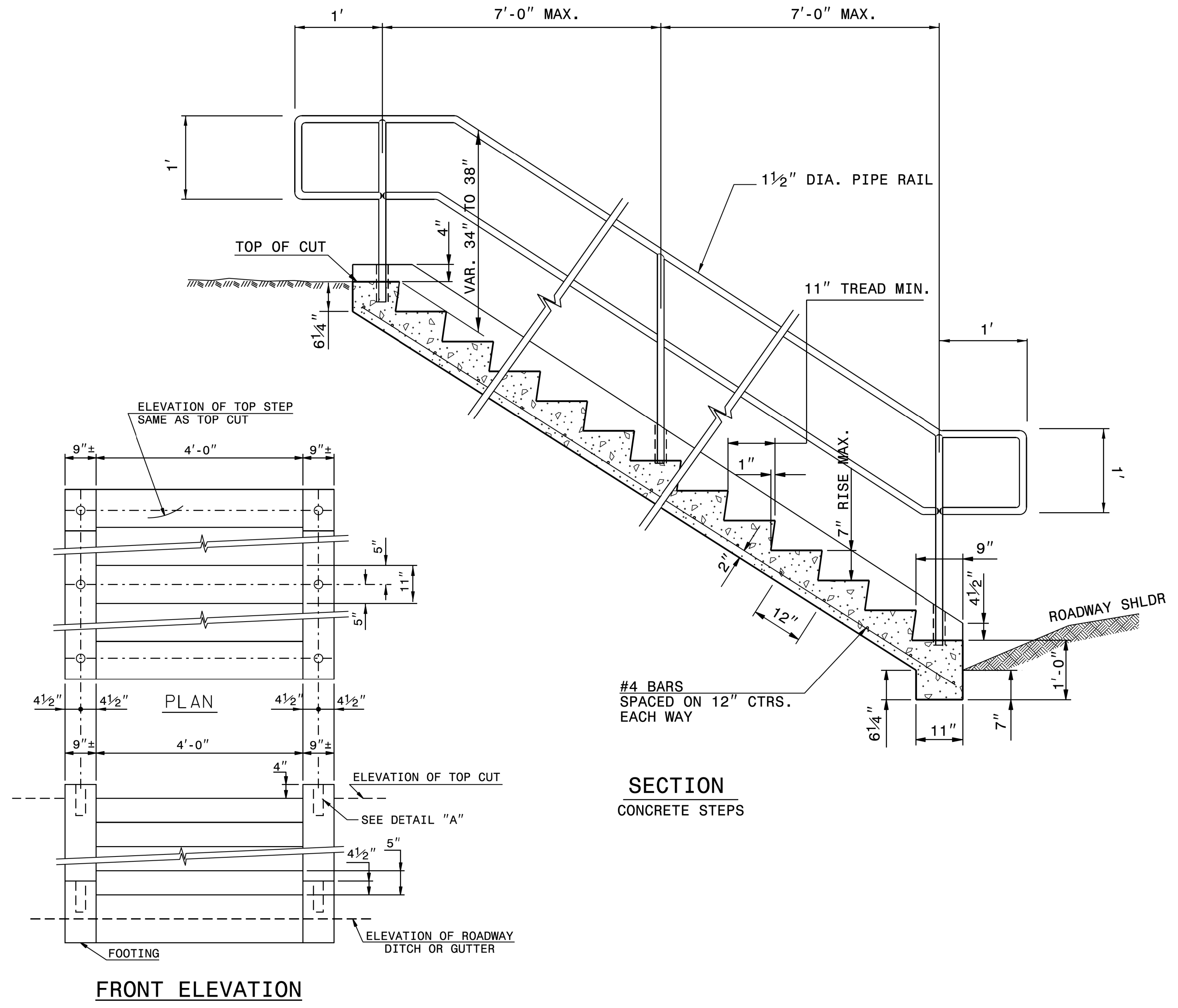
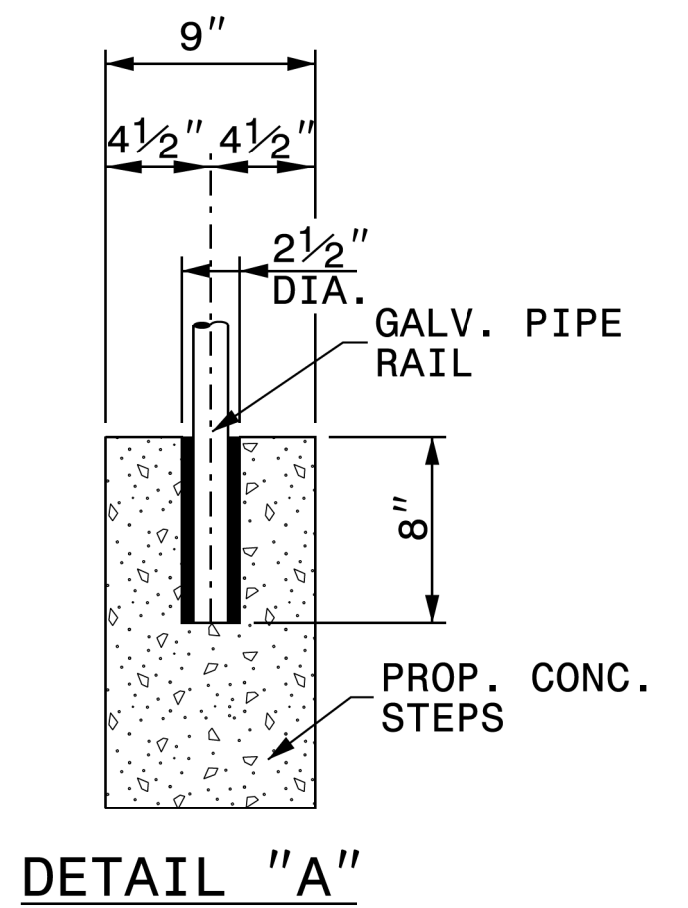
STATE OF NORTH CAROLINA  
 DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR  
**CONCRETE STEPS WITH HANDRAIL**

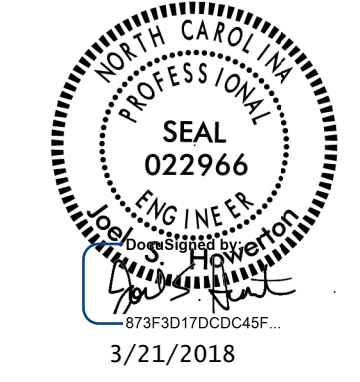
SHEET 1 OF 1  
**844D01**

- GENERAL NOTES :
- CONSTRUCT PROPOSED STEEL PIPE RAIL OF 1½" DIAMETER SCHEDULE 40 PLAIN END GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A53. EMBED PIPE RAIL 8" INTO PROPOSED STEPS WITH CHEMICAL OR CONCRETE GROUT ANCHORING SYSTEM AS DIRECTED BY THE ENGINEER.
  - USE A ROTARY DRILL FOR DRILLING THE HOLES FOR THE PIPE RAIL. NO IMPACT DRILLS ALLOWED.
  - USE CLASS "B" CONCRETE THROUGHOUT FOR CONCRETE STEPS.
  - LOCATION AND QUANTIES SHOWN ARE APPROXIMATE ONLY. EXACT LOCATION AND QUANTIES WILL BE DETERMINED BY THE ENGINEER.
  - ALL WORK AS DIRECTED BY THE ENGINEER.
  - REPAIR OF GALVANIZING IN ACCORDANCE WITH SCT.1076 OF THE STANDARD SPECIFICATIONS.
  - WELD IN ACCORDANCE WITH ARTICLE 1072-18 OF THE STANDARD SPECIFICATIONS.
  - 2" CLEAR SPACING ON ALL REINFORCING BARS.
  - EXTEND HORIZONTAL REINFORCING BARS UPWARD INTO SIDE WALLS.
  - ALL HANDRAILS AND STEPS MUST COMPLY WITH ADA STANDARDS FOR ACCESSIBLE DESIGN.

CUBIC YARDS IN STANDARD CONCRETE STEPS					
NO. OF STEPS	4' WIDE	5' WIDE	6' WIDE	7' WIDE	ADDITIONAL CU. YDS. PER 1' WIDTH
2	0.4	0.5	0.5	0.6	0.1
3	0.6	0.7	0.8	0.9	0.1
4	0.8	0.9	1.0	1.2	0.1
5	1.0	1.2	1.3	1.4	0.1
6	1.2	1.4	1.5	1.7	0.2
7	1.4	1.6	1.8	2.0	0.2
8	1.6	1.8	2.0	2.3	0.2
9	1.8	2.0	2.3	2.6	0.3
10	2.0	2.3	2.5	2.8	0.3
ADDITIONAL STEP INCREMENT	0.2	0.2	0.2	0.3	0.1



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 Hoverton AT CS0-212955



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**CONTRACT STANDARDS AND DEVELOPMENT UNIT**  
 Office 919-707-6950 FAX 919-250-4119  
**SEE PLATE FOR TITLE**  
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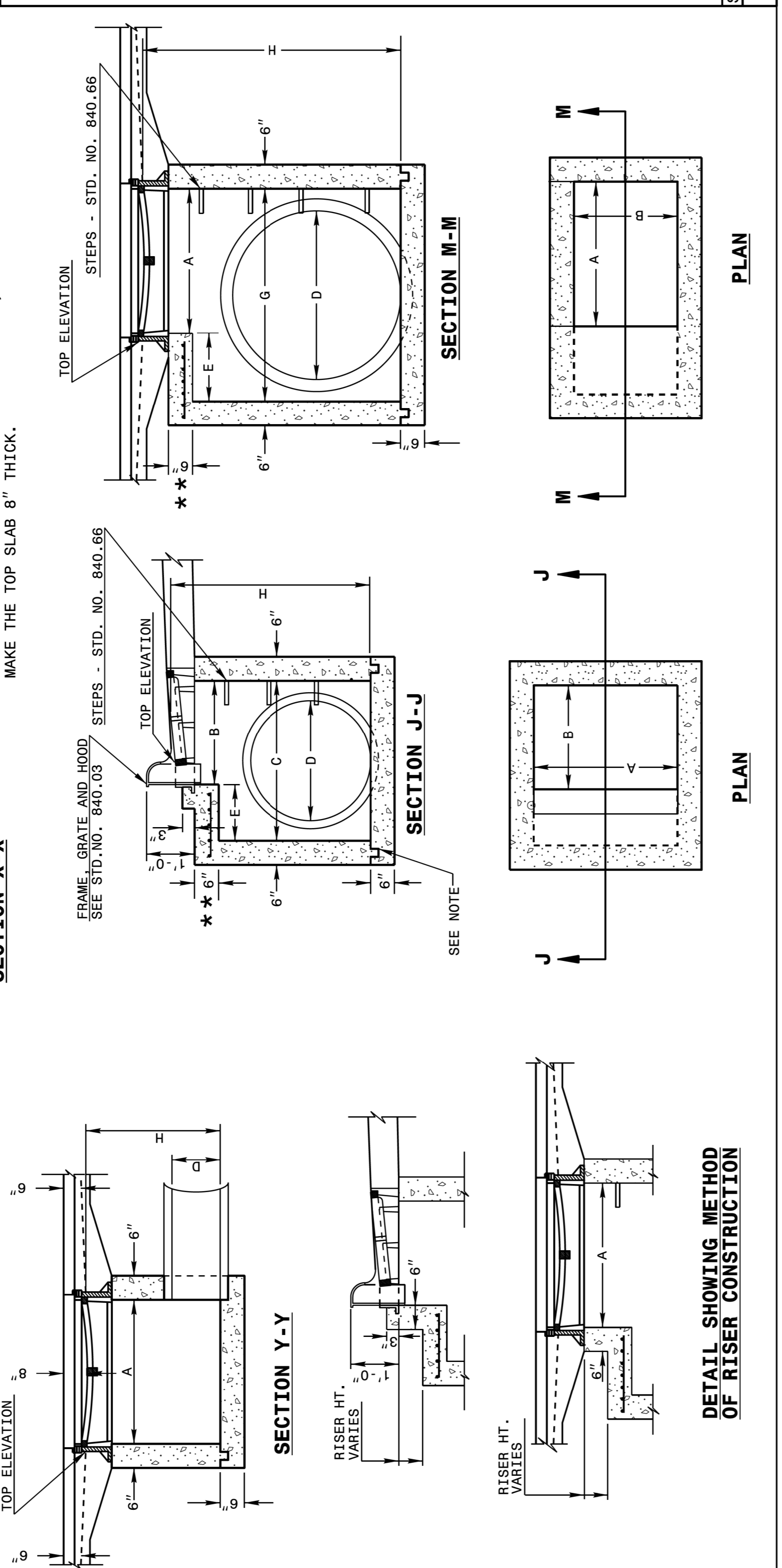
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 Jowerton AT CSU-232595

5/14/99

STATE OF  
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DIVISION OF HIGHWAYS  
RALEIGH, N.C.

GENERAL NOTES:  
 USE CLASS "B" CONCRETE THROUGHOUT.  
 PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.  
 OPTIONAL CONSTRUCTION - MONOLITHIC FOUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.  
 USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.  
 IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.  
 USE TYPE "E", "F", AND "G" GRATES UNLESS OTHERWISE INDICATED.  
 FOR 6'-0" IN HEIGHT OR LESS USE 6" WALLS AND BOTTOM SLAB. OVER 6'-0" TO 15'-0" IN HEIGHT USE 8" WALLS AND BOTTOM SLAB. ADJUST QUANTITIES ACCORDINGLY.  
 CONSTRUCT WITH PIPE CROWNS MATCHING.  
 CHAMFER ALL EXPOSED CORNERS 1".  
 \*\* FOR STRUCTURES WITH PIPE LARGER THAN 54", MAKE THE TOP SLAB 8" THICK.

ENGLISH DETAIL DRAWING FOR  
**MINIMUM DEPTH  
CONCRETE CATCH BASIN**  
12" THRU 84" PIPE



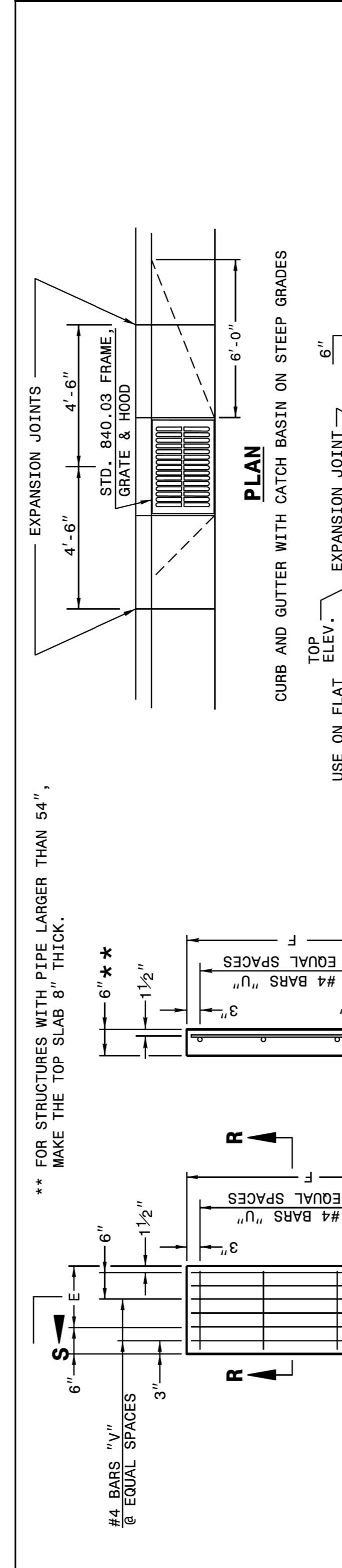
DETAIL SHOWING METHOD OF RISER CONSTRUCTION

ENGLISH DETAIL DRAWING FOR  
**MINIMUM DEPTH  
CONCRETE CATCH BASIN**  
12" THRU 84" PIPE

SHEET 1 OF 2  
**840D02**

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STATE OF  
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RALEIGH, N.C.



ENGLISH DETAIL DRAWING FOR  
**MINIMUM DEPTH  
CONCRETE CATCH BASIN**  
12" THRU 84" PIPE

\* RISER HAS .228 CUBIC YARDS OF CONCRETE PER FOOT HEIGHT

PIPE D.	DIMENSIONS OF BOX AND PIPE				COVER DIMENSION				BARS				TOTAL LBS.	TOP SLAB CU. YDS. CONC. IN BOX FOR MINIMUM HEIGHT, H.	DEDUCTIONS ONE PIPE
	SPAN A	WIDTH B	DEPTH C	MIN. HEIGHT E	MIN. HEIGHT F	MIN. HEIGHT G	MIN. HEIGHT H	NO.	LENGTH	NO.	LENGTH	NO.			
12"	3'-0"	2'-2"	2'-2"	2'-0"	2'-3"	2'-6"	2'-3"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	0.235	0.026
15"	3'-0"	2'-2"	2'-2"	2'-0"	2'-3"	2'-6"	2'-3"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	0.235	0.026
18"	3'-0"	2'-2"	2'-2"	2'-0"	2'-3"	2'-6"	2'-3"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	0.235	0.026
24"	3'-0"	2'-2"	2'-2"	2'-0"	2'-3"	2'-6"	2'-3"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	0.235	0.026
30"	3'-0"	2'-2"	3'-4"	3'-10"	3'-1"	3'-10"	3'-1"	3'-10"	3'-10"	3'-10"	3'-10"	3'-10"	3'-10"	0.235	0.026
36"	3'-0"	2'-2"	3'-10"	3'-10"	4'-6"	4'-10"	4'-11"	4'-11"	4'-11"	4'-11"	4'-11"	4'-11"	4'-11"	0.235	0.026
42"	3'-0"	2'-2"	4'-5"	4'-5"	5'-5"	5'-5"	5'-5"	5'-5"	5'-5"	5'-5"	5'-5"	5'-5"	5'-5"	0.235	0.026
48"	3'-0"	2'-2"	5'-0"	5'-0"	5'-6"	5'-6"	5'-6"	5'-6"	5'-6"	5'-6"	5'-6"	5'-6"	5'-6"	0.235	0.026
54"	3'-0"	2'-2"	5'-7"	5'-7"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	0.235	0.026
60"	3'-0"	2'-2"	6'-3"	6'-3"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	6'-6"	0.235	0.026
66"	3'-0"	2'-2"	6'-11"	6'-11"	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"	7'-0"	0.235	0.026
72"	3'-0"	2'-2"	7'-6"	7'-6"	7'-6"	7'-6"	7'-6"	7'-6"	7'-6"	7'-6"	7'-6"	7'-6"	7'-6"	0.235	0.026
78"	3'-0"	2'-2"	8'-1"	8'-1"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	0.235	0.026
84"	3'-0"	2'-2"	8'-9"	8'-9"	8'-6"	8'-6"	8'-6"	8'-6"	8'-6"	8'-6"	8'-6"	8'-6"	8'-6"	0.235	0.026

STATE OF  
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DIVISION OF HIGHWAYS  
RALEIGH, N.C.

SHEET 2 OF 2  
**840D02**

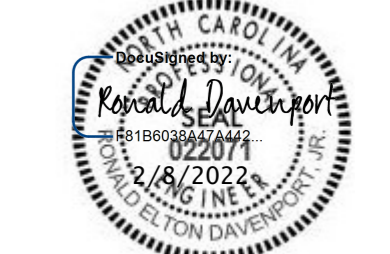
ENGLISH DETAIL DRAWING FOR  
**MINIMUM DEPTH  
CONCRETE CATCH BASIN**  
12" THRU 84" PIPE

DOCUMENT NOT CONSIDERED FINAL  
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**CONTRACT STANDARDS  
AND DEVELOPMENT UNIT**  
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**SEE PLATE FOR TITLE**

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 MODIFIED BY: E.E. WARD DATE: 3-1-02  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
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 DIVISION OF HIGHWAYS  
 RALEIGH, N.C.

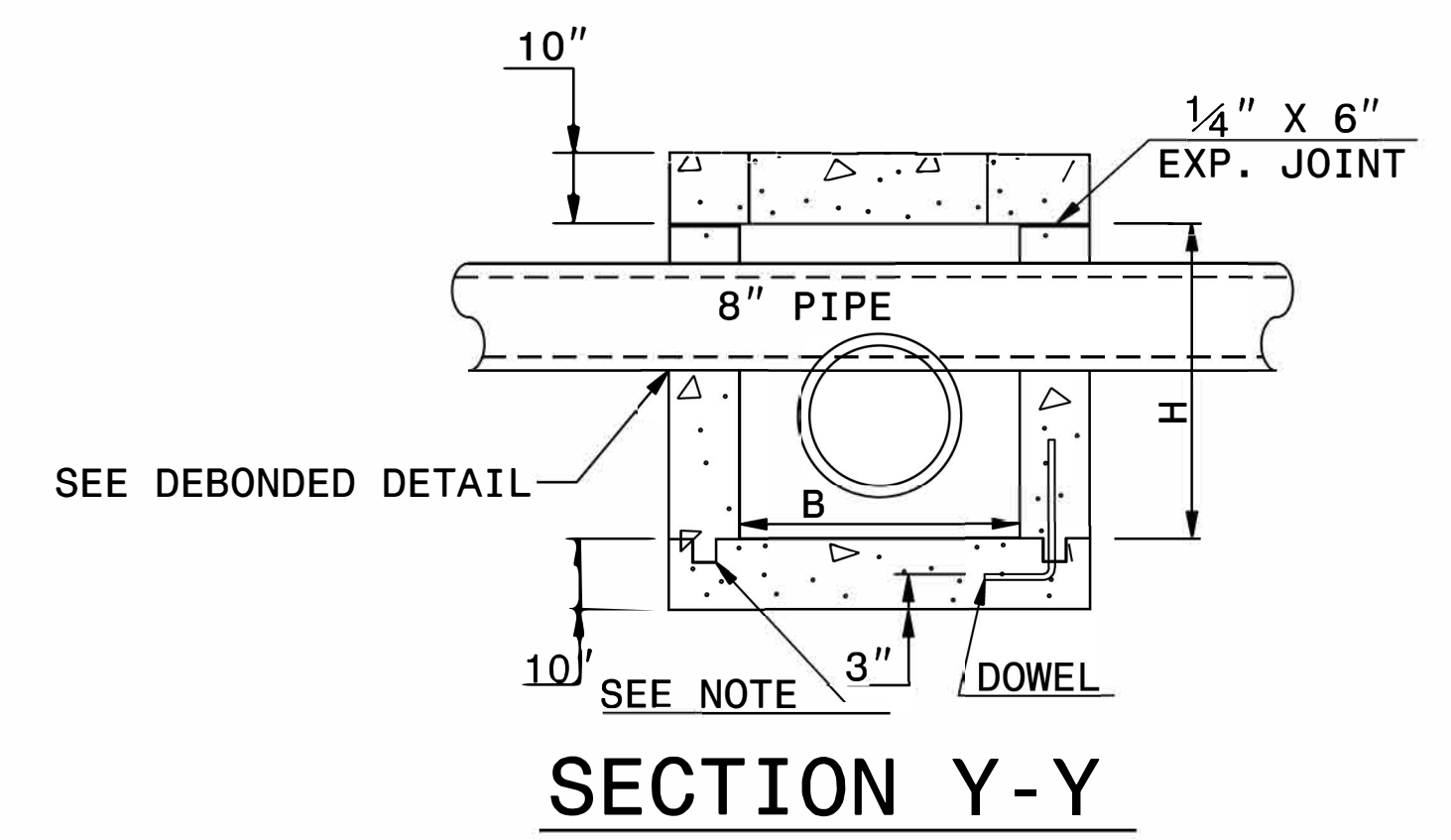
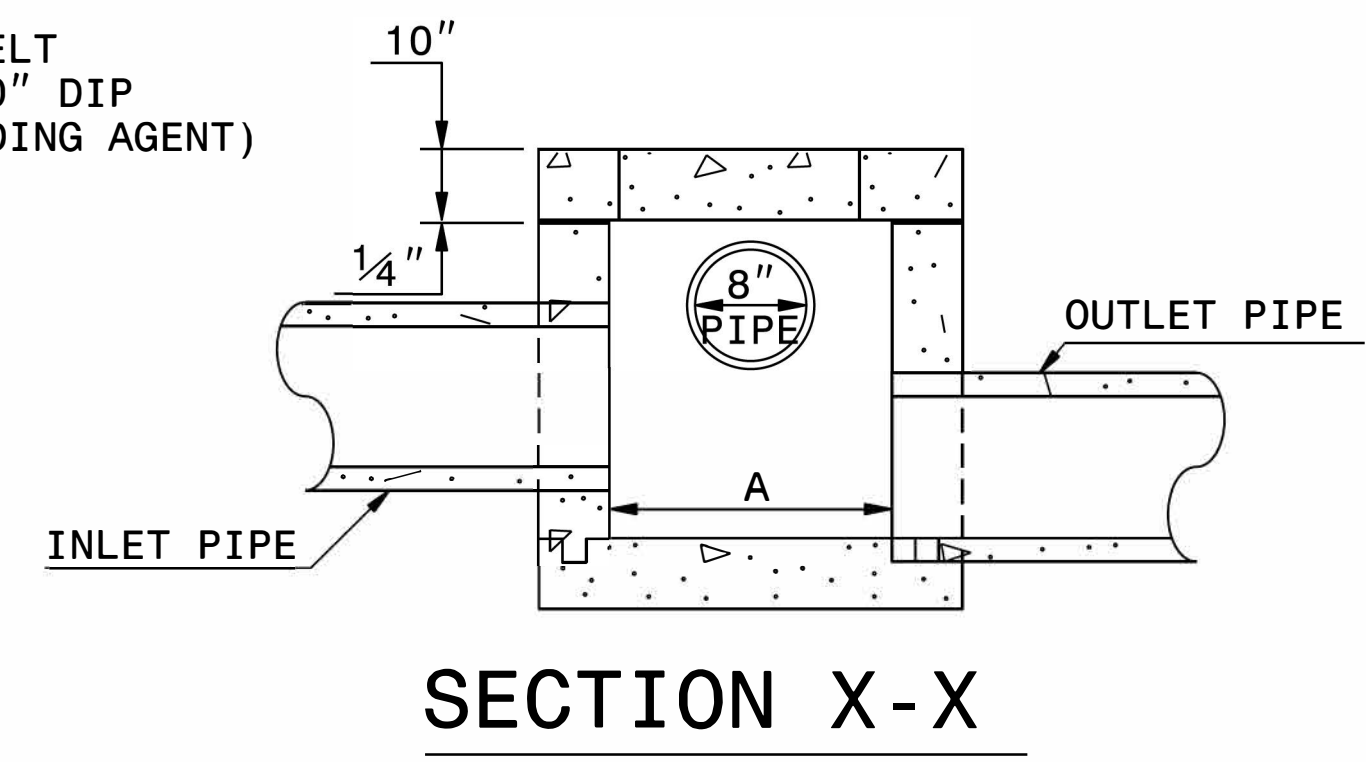
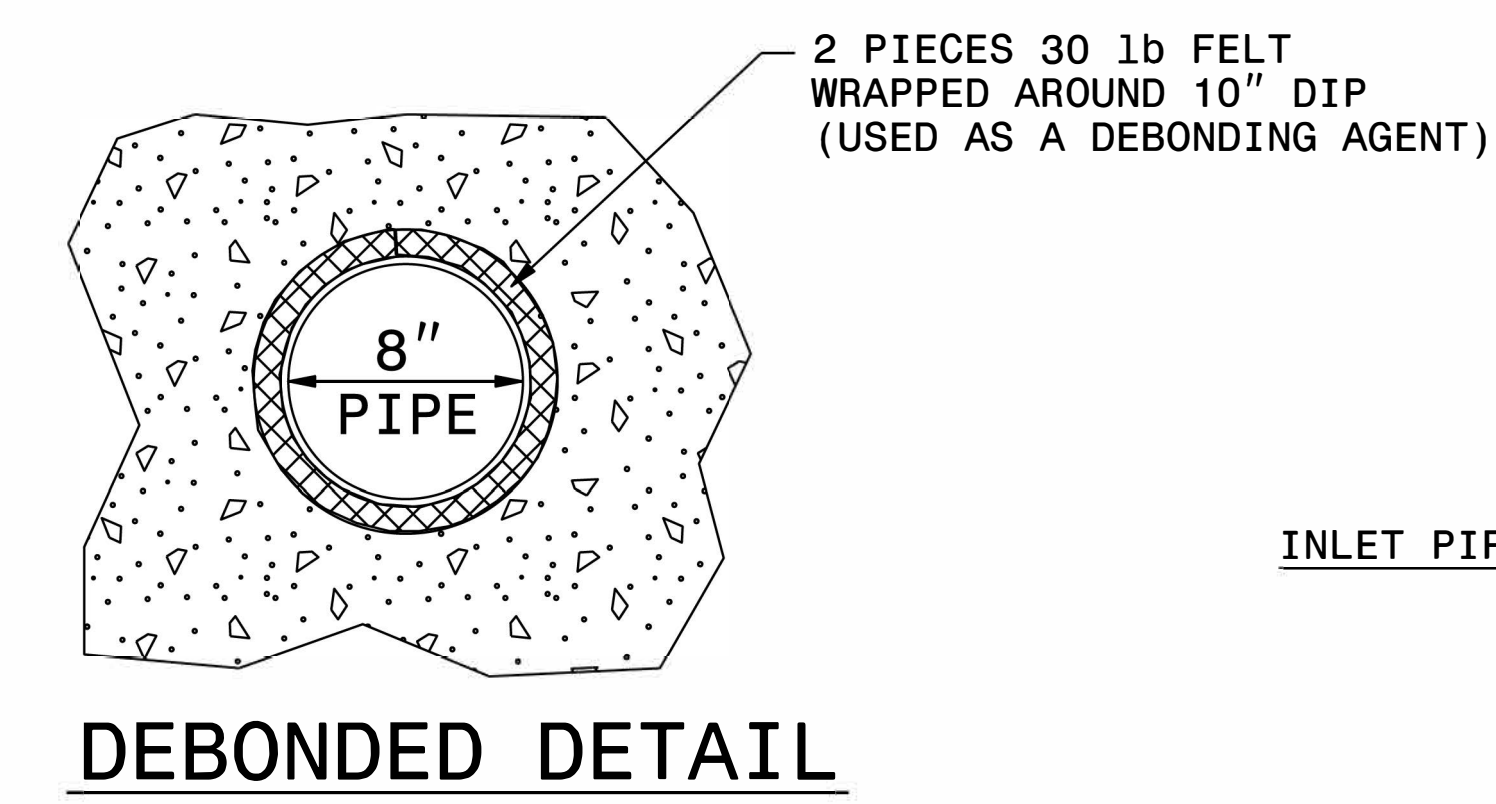
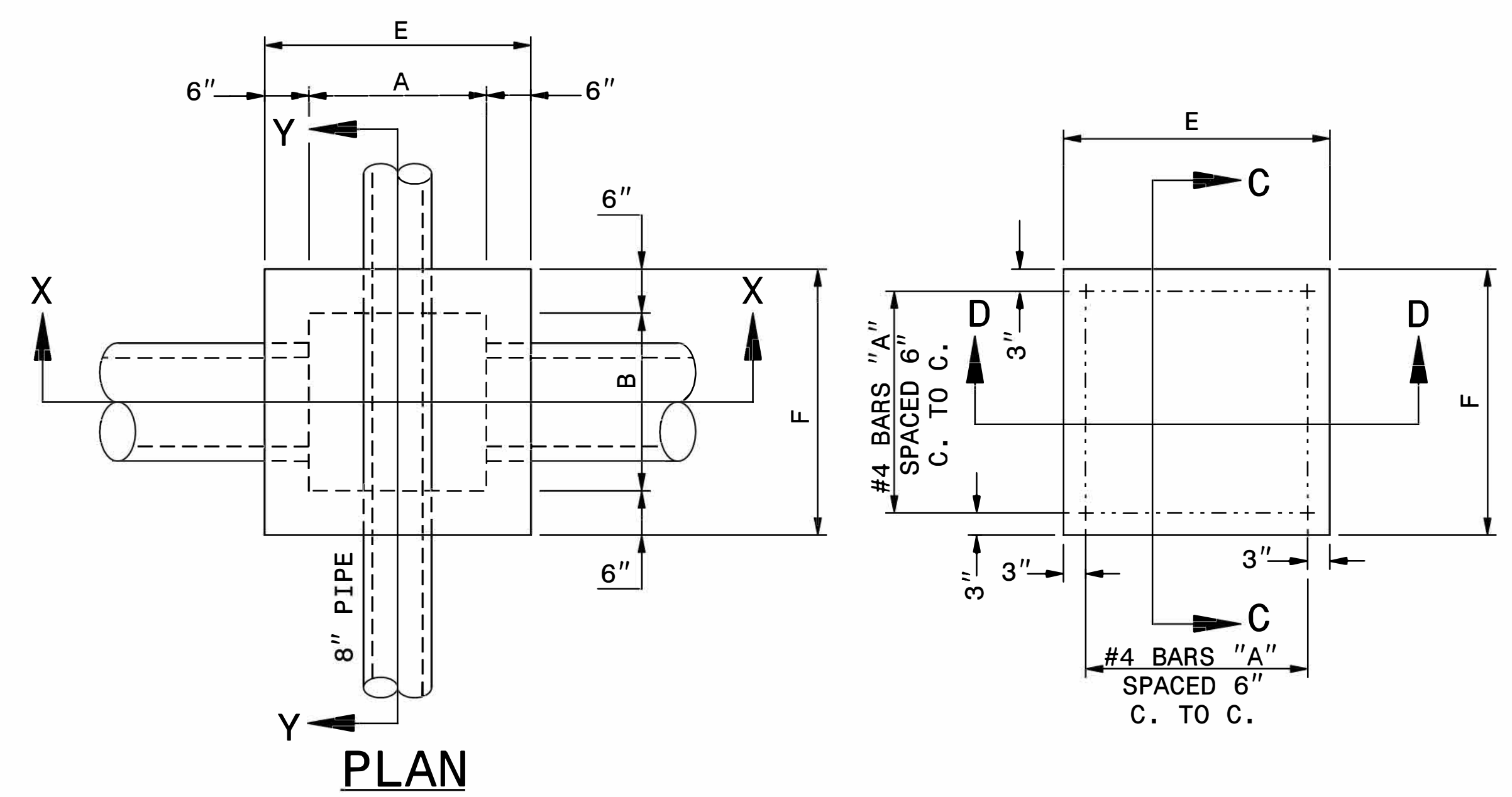
ENGLISH DETAIL DRAWING FOR  
**CONCRETE JUNCTION BOX WITH  
 8" PIPE PASSING THRU  
 12" THRU 66" PIPE**

SHEET 1 OF 1  
**840D31**

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

ENGLISH DETAIL DRAWING FOR  
**CONCRETE JUNCTION BOX WITH  
 8" PIPE PASSING THRU  
 12" THRU 66" PIPE**

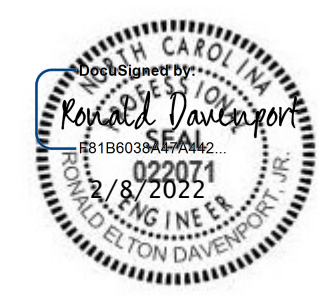
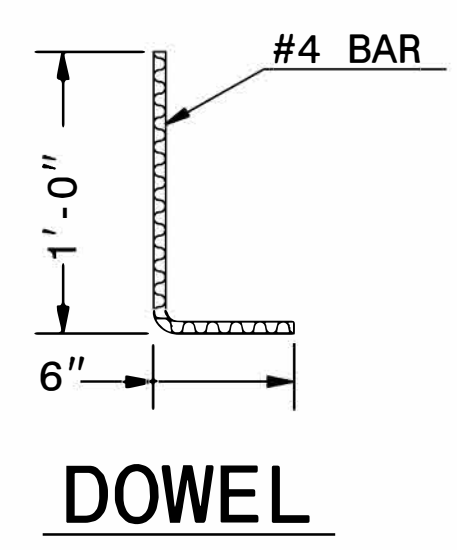
SHEET 1 OF 1  
**840D31**



**GENERAL NOTES:**

- USE CLASS "B" CONCRETE THROUGHOUT.
- OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
- USE FORMS TO CONSTRUCT THE BOTTOM SLAB.
- IF REINFORCED CONCRETE PIPE IS SET IN BASE SLAB OF BOX, ADD TO BASE AS SHOWN ON STANDARD NO. 840.00.
- REFER TO R.S.D.N. 840.31 FOR PLACEMENT OF MANHOLE COVER IN JUNCTION BOX.

DIMENSIONS AND QUANTITIES FOR CONCRETE JUNCTION BOXES														
DIMENSIONS OF BOX AND PIPE				REINFORCEMENT BARS "A"		COVER DIMENSIONS		CUBIC YARDS IN BOX			TOTAL QUANTITIES BOX AND COVER		DEDUCTIONS FOR ONE PIPE CU.YDS.	
PIPE	SPAN	WIDTH	HEIGHT	NO.	LENGTH	E	F	COVER	FLOOR	WALL/ FT. OF HT.	LBS. REINF.	CU. YDS. MIN. "H"	C.S.	R.C.
12"	2'-0"	2'-0"	2'-3"	12	2'-9"	3'-0"	3'-0"	0.222	0.222	0.185	22	0.750	0.015	0.024
15"	2'-3"	2'-3"	2'-6"	12	3'-0"	3'-3"	3'-3"	0.261	0.261	0.204	24	0.902	0.023	0.036
18"	2'-6"	2'-6"	2'-9"	14	3'-3"	3'-6"	3'-6"	0.302	0.302	0.222	30	1.065	0.033	0.049
24"	3'-0"	3'-0"	3'-3"	16	3'-9"	4'-0"	4'-0"	0.395	0.395	0.259	40	1.434	0.059	0.091
30"	3'-6"	3'-6"	3'-9"	18	4'-3"	4'-6"	4'-6"	0.500	0.500	0.296	51	1.860	0.092	0.138
36"	4'-0"	4'-0"	4'-3"	20	4'-9"	5'-0"	5'-0"	0.617	0.617	0.333	64	2.341	0.132	0.196
42"	4'-6"	4'-6"	4'-9"	22	5'-3"	5'-6"	5'-6"	0.747	0.747	0.370	77	2.878	0.180	0.284
48"	5'-0"	5'-0"	5'-3"	24	5'-9"	6'-0"	6'-0"	0.889	0.889	0.407	92	3.471	0.235	0.364
54"	5'-6"	5'-6"	5'-9"	26	6'-3"	6'-6"	6'-6"	1.043	1.043	0.444	109	4.283	0.297	0.440
60"	6'-0"	6'-0"	6'-3"	28	6'-9"	7'-0"	7'-0"	1.210	1.210	0.481	127	5.090	0.367	0.546
66"	6'-6"	6'-6"	6'-9"	30	7'-3"	7'-6"	7'-6"	1.389	1.389	0.518	146	5.917	0.444	0.655



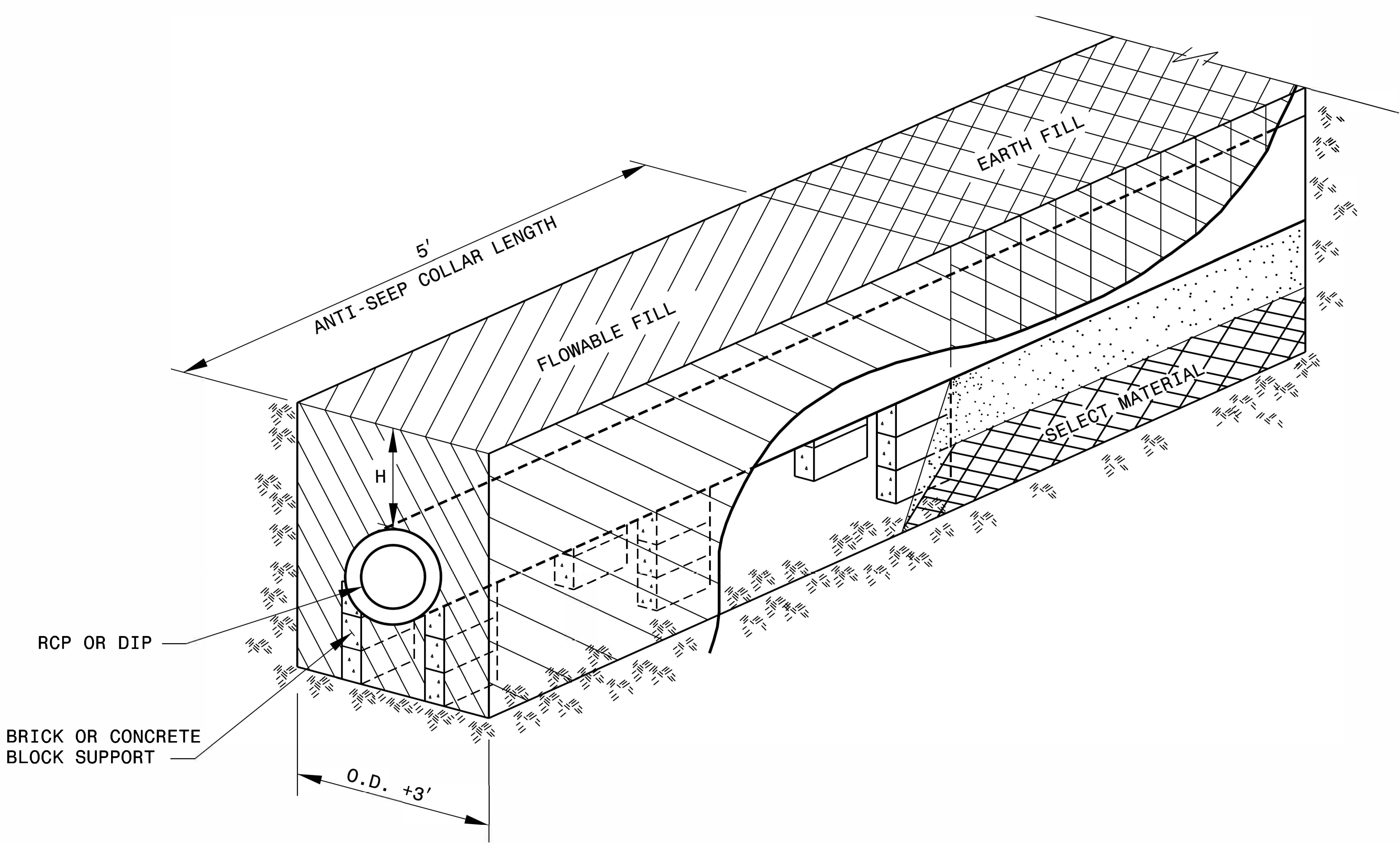
**CONTRACT STANDARDS AND DEVELOPMENT UNIT**  
 Office 919-707-6950 FAX 919-250-4119

**SEE PLATE FOR TITLE**

ORIGINAL BY: E.E. WARD DATE: 3-12-98  
 MODIFIED BY: DATE: \_\_\_\_\_  
 CHECKED BY: DATE: \_\_\_\_\_  
 FILE SPEC: :usr/details/stand/conflict\_box.dgn

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED





**NOTES:**

ANTI-SEEP COLLAR LENGTH ALONG PIPE IS 5 FEET, CONSTRUCTED OF 35 PSI FLOWABLE FILL.

H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF PIPE TO THE TOP OF THE EMBANKMENT AT THAT POINT.

SEE ROADWAY STANDARD DRAWING NO.300.01, 1 OF 3, NCDOT, JANUARY 2012 FOR UNSUITABLE MATERIAL FOUNDATION.


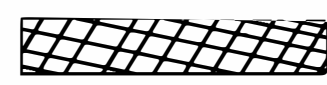

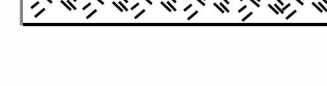


DO NOT OPERATE HEAVY EQUIPMENT OVER ANY PIPE CULVERT UNTIL THE PIPE CULVERT HAS BEEN PROPERLY BACKFILLED AND COVERED WITH AT LEAST 3 FEET OF APPROVED MATERIAL.

O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIAMETER DIMENSION.

I.D. = THE MAXIMUM HORIZONTAL INSIDE DIAMETER DIMENSION.

RCP = REINFORCED CONCRETE PIPE.

DIP = DUCTILE IRON PIPE.

-  FLOWABLE FILL MATERIAL.
-  SELECT MATERIAL CLASS V OR VI FOR FOUNDATION CONDITIONING. ENCAPSULATE WITH ENGINEERING FABRIC AS DIRECTED BY THE ENGINEER.
-  LOOSELY PLACED SELECT MATERIAL, CLASS III OR CLASS II, TYPE I FOR PIPE BEDDING. LEAVE SECTION DIRECTLY BENEATH PIPE UNCOMPACTED AS PIPE SEATING AND BACKFILL WILL ACCOMPLISH COMPACTION.
-  UNDISTURBED EARTH MATERIAL.
-  BRICK OR CONCRETE BLOCK SUPPORT
-  EARTH MATERIAL

## ANTI-SEEP COLLAR



**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

**CONTRACT STANDARDS & DEVELOPMENT UNIT  
STANDARDS AND SPECIAL DESIGN**  
Office 919-707-6950 FAX 919-250-4119

## ANTI-SEEP COLLAR

ORIGINAL BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 MODIFIED BY: rnbritt DATE: 05-15-15  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 FILE SPEC: d:\tails\nbritt/english/hydro/anti\_seep\_collar.dgn

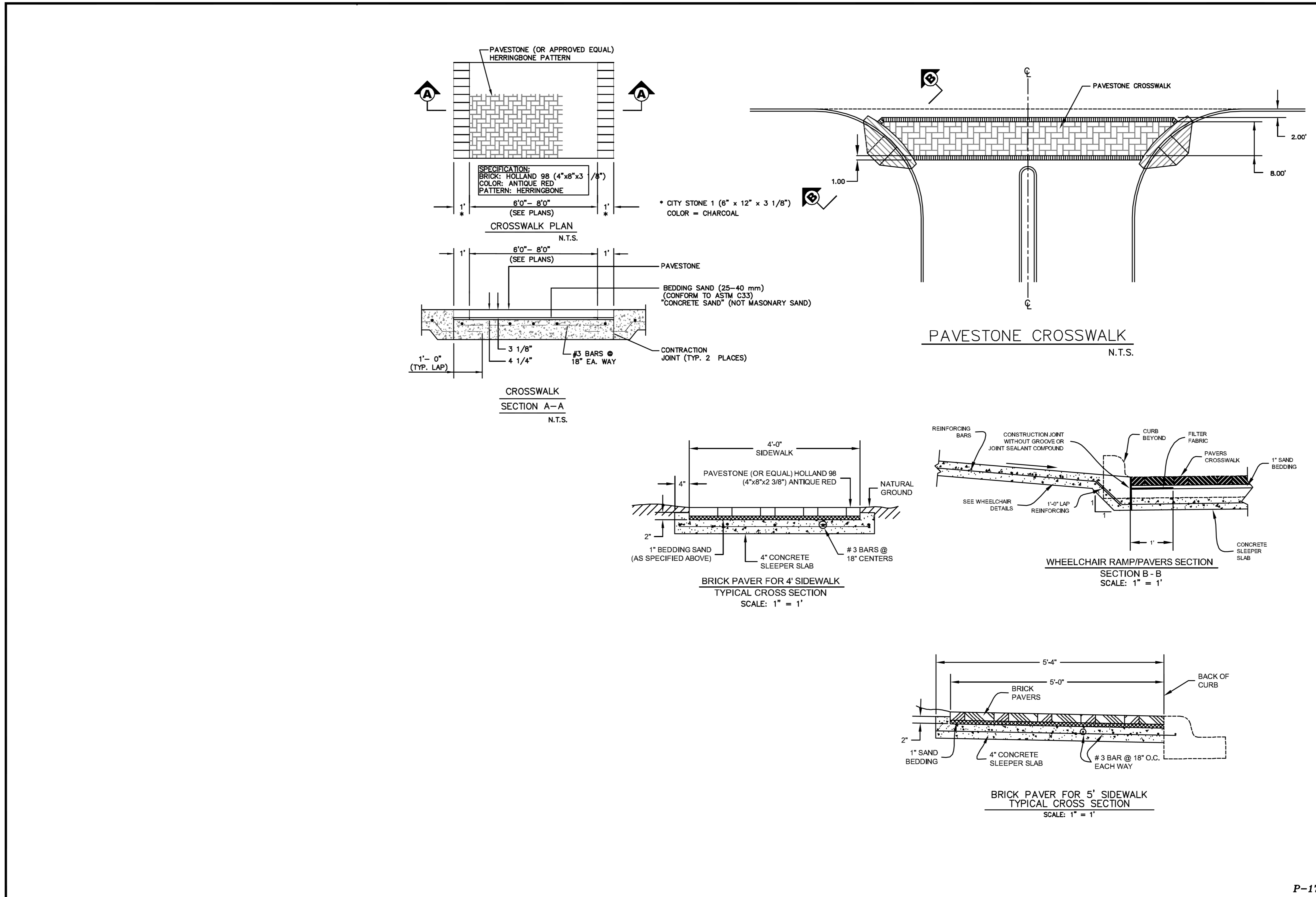






REVISIONS
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K:\RAL\_Roadway\01036243 - U-5606 DickInson Avenue Roadway\Proj\U5606\_rdy\_psh\_2C\_10.dgn

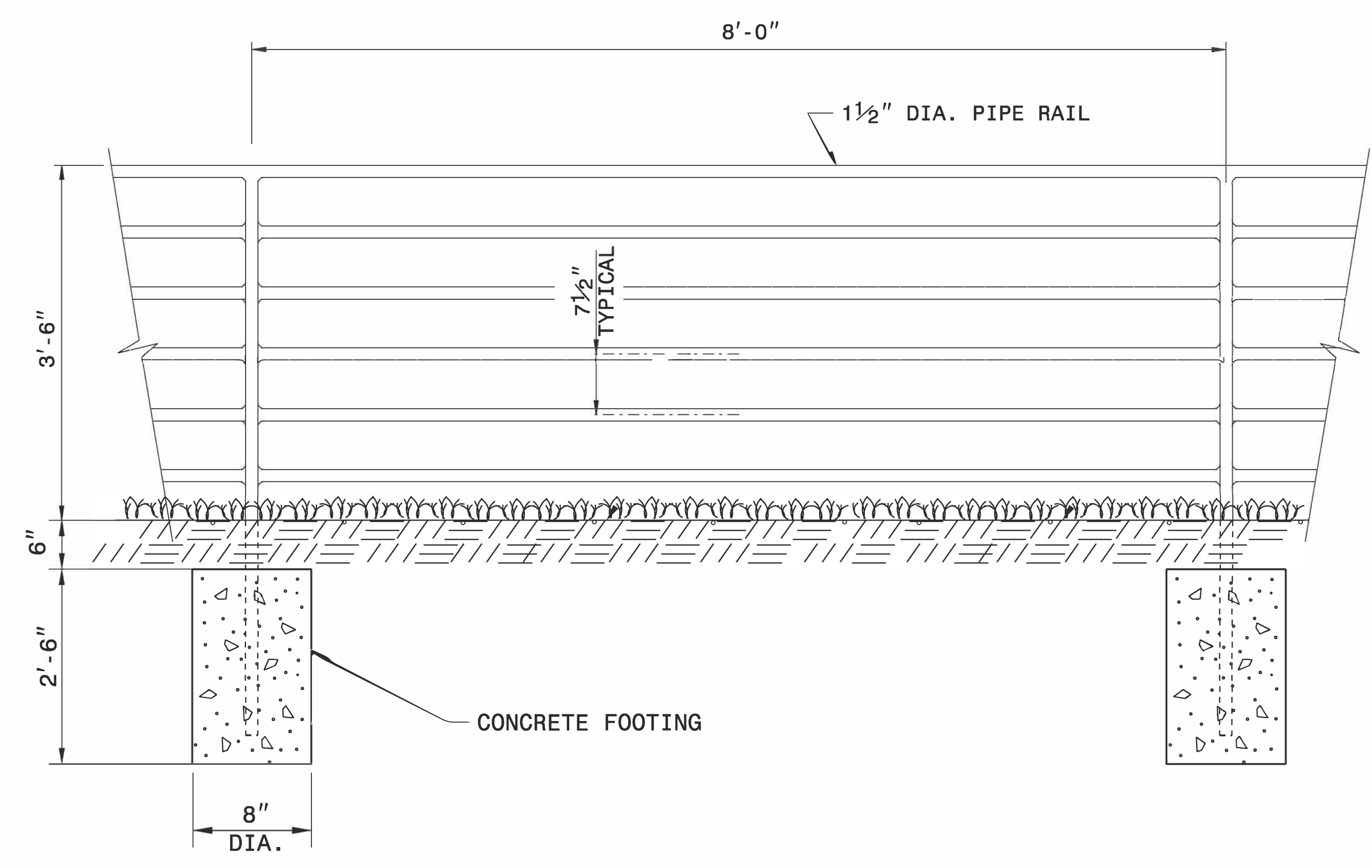


SCALE	DATE	BY	REVISIONS
AS SHOWN			
DATE: March, 2021			
DESIGNED BY: COL			
DRAWN BY: G.G.D./J.C.E.			
CHECKED BY: J.P.F.			
INVESTIGATED BY: G.S./M.L.			

**CITY OF IRVING**  
 DEPARTMENT OF PUBLIC WORKS/ENGINEERING  
 825 WEST IRVING BOULEVARD  
 IRVING, TEXAS 75060  
 (972) 721-2611  
 www.ci.irving.tx.us

**Valley, Curb and Gutter  
Pavestone Crosswalk  
Brick Pavers For 4' and 5' Sidewalk**

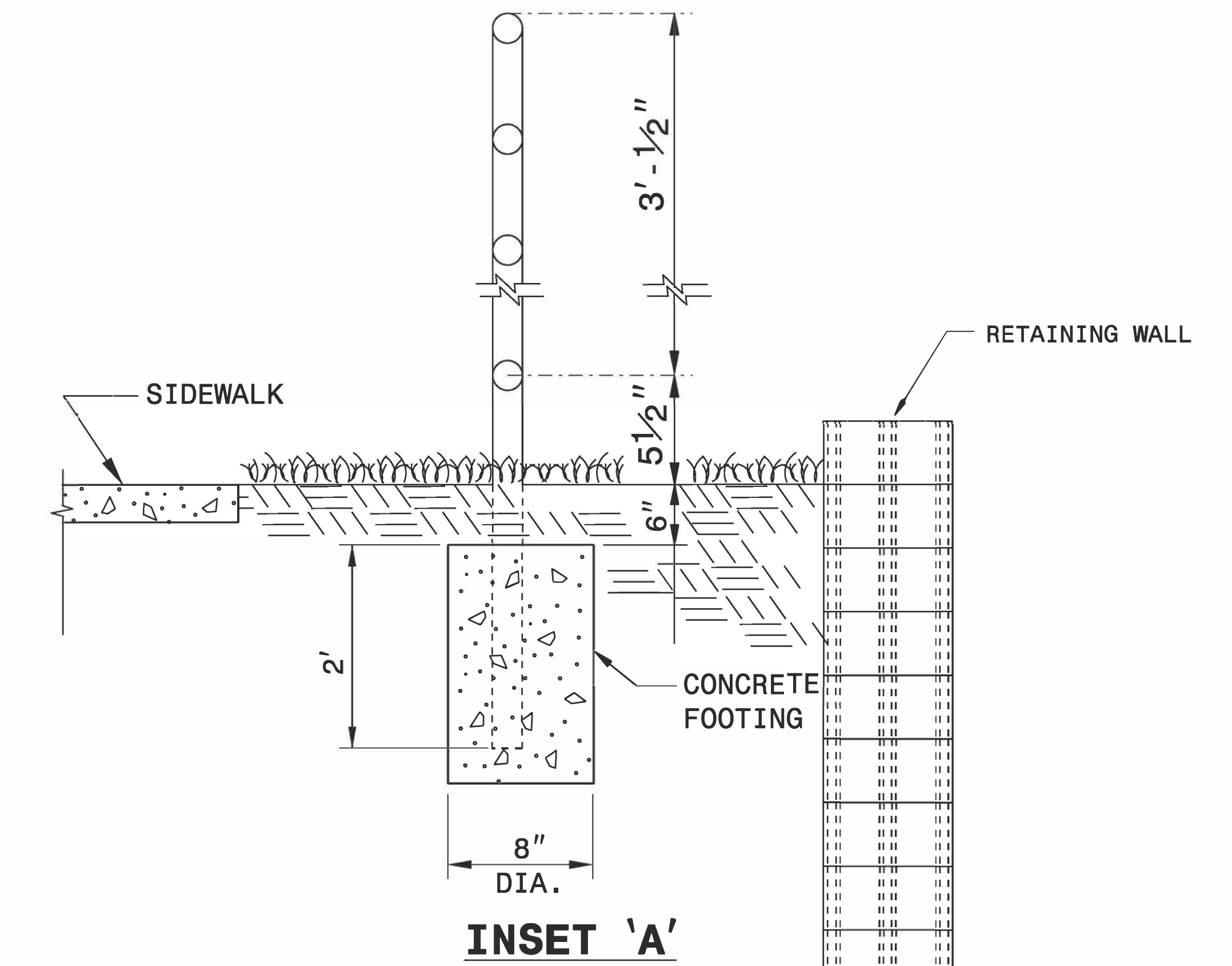




**ELEVATION OF HANDRAIL**

**NOTES:**

- CONSTRUCT PROPOSED STEEL PIPE RAIL OF 1 1/2" DIAMETER SCHEDULE 40 PLAIN END GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A53.
- REPAIR GALVANIZING IN ACCORDANCE WITH SECTION 1076 OF THE NCDOT STANDARD SPECIFICATIONS.
- PAINT, IF REQUIRED BY THE ENGINEER, IN ACCORDANCE WITH SECTION 1080 OF THE STANDARD SPECIFICATIONS.
- WELD IN ACCORDANCE WITH ARTICLE 1072-18 OF THE STANDARD SPECIFICATIONS.
- USE CLASS 'B' CONCRETE FOR HANDRAIL FOOTINGS.
- PLACEMENT OF HANDRAIL IN RELATION TO RETAINING WALL AND SIDEWALK MAY BE MODIFIED AS DIRECTED BY THE ENGINEER.



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

**CONTRACT STANDARDS AND DEVELOPMENT UNIT**  
Office 919-707-6950 FAX 919-250-4119

**PROPOSED PEDESTRIAN SAFETY RAIL**

ORIGINAL BY: E.E. WARD DATE: 12-99  
 MODIFIED BY: DATE:  
 CHECKED BY: DATE:  
 FILE SPEC.: jhowerton/handrail adjacent to sidewalk.dgn

I3-AUG-2018 07:40  
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jhowerton AT USD-292595



DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA

**SUMMARY OF EARTHWORK**  
 IN CUBIC YARDS

REVISIONS

K:\RAL\_Roadway\01036243 - U-5606 Dickinson Avenue Roadway\Pro\U5606\_rdy\_sum.dgn

12/6/2021

LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT EXCAVATION	EMBANKMENT +%	BORROW	TOTAL WASTE
<b>SECTION 1 (PHASE I)</b>					
-L- 17+26.03 TO 26+62.00	162		340	178	
-RAMP- 11+40.00 TO 14+80.00	62		8		54
-L- 27+50.00 TO 41+00.00 (RT)	416		15		401
-L- 41+00.00 TO 57+75.00 (RT)	418		144		274
-L- 58+65.00 TO 65+99.35 (RT)	135		138	3	
-L- 72+50.00 TO 88+35.00 (RT)	265		104		161
<b>SUBTOTAL (SECTION 1)</b>	<b>1458</b>		<b>749</b>	<b>181</b>	<b>890</b>
<b>SECTION 2 (PHASE II)</b>					
-L- 26+62.00 TO 27+50.00	11		26	15	
-L- 27+50.00 TO 41+00.00 (LT)	422		51		371
-L- 41+00.00 TO 57+75.00 (LT)	559		128		431
-L- 58+65.00 TO 65+99.35 (LT)	175		111		64
-L- 72+50.00 TO 88+35.00 (LT)	189		65		124
-Y4- 11+00.00 TO 12+12.31	91		24		67
<b>SUBTOTAL (SECTION 2)</b>	<b>1447</b>		<b>405</b>	<b>15</b>	<b>1057</b>
<b>SECTION 3 (PHASE III)</b>					
-L- 57+75.00 TO 58+65.00	17		4		13
<b>SUBTOTAL (SECTION 3)</b>	<b>17</b>		<b>4</b>		<b>13</b>
<b>TOTAL</b>	<b>2922</b>		<b>1158</b>	<b>196</b>	<b>1960</b>
<b>EARTH WASTE TO REPLACE BORROW</b>				<b>-196</b>	<b>-196</b>
<b>GRAND TOTALS</b>	<b>2922</b>		<b>1158</b>	<b>0</b>	<b>1764</b>
<b>SAY</b>	<b>3000</b>			<b>0</b>	
<b>ESTIMATED UNDERCUT EXCAVATION</b>		<b>500 CY</b>	<b>(CONTINGENCY, AS DIRECTED BY ENGINEER)</b>		
<b>SEE 3G-1 FOR A SUMMARY OF THE FOLLOWING QUANTITIES:</b>					
<b>ESTIMATED SHALLOW UNDERCUT BY STATION</b>		<b>10,100 CY</b>			
<b>ESTIMATED CLASS IV SUBGRADE STABILIZATION</b>		<b>21,300 TONS</b>			
<b>ESTIMATED GEOTEXTILE FOR SOIL STABILIZATION</b>		<b>31,200 SY</b>			

NOTE: APPROXIMATE QUANTITIES ONLY. CLEARING AND GRUBBING, UNCLASSIFIED EXCAVATION, FINE GRADING, AND REMOVAL OF EXISTING ASPHALT PAVEMENT WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "GRADING" (SEE SPECIAL PROVISION).

THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

REMOVAL OF CONCRETE PAVEMENT WILL PAID FOR AS A SEPARATE LINE ITEM.



















LD2808

COMPUTED BY: ED DATE: 7/20/2021
CHECKED BY: VWB DATE: 7/28/2021

PROJECT NO. SHEET NO.
U-5606 3D-5

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

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

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

Table with columns for Line & Station, Offset, Structure Number, Drainage Pipe, Ductile Iron Pipe, R.C. Pipe Class III, R.C. Pipe Class IV, R.C. Pipe Class V, Quantities for Drainage Structures, Frame, Grates, and Hood, Concrete Transitional Section, and Abbreviations. Includes a SHEET TOTALS row at the bottom.





DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA

REVISIONS

**SUMMARY OF AGGREGATE SUBGRADE / STABILIZATION**

LINE	Station	Station	Aggregate Type* ASU/AST	Aggregate Thickness INCHES	Shallow Undercut CY	Class IV Subgrade Stabilization TONS	Geotextile for Soil Stabilization SY	Stabilizer Aggregate TONS	Class IV Aggregate Stabilization TONS	
-L-	17+26	26+62	ASU	12	1198	2764	4041			
-L-	26+62	27+50	ASU	12	500	1606	2349			
-L-	27+50	32+25	ASU	12	760	1529	2236			
-L-	32+25	41+00	ASU	12	291	473	691			
-L-	41+00	65+99	ASU	12	4371	8912	13029			
-L-	72+50	88+35	ASU	12	2614	5409	7908			
-RAMP-	11+40	14+80	ASU	12	207	291	426			
-Y4-	11+00	12+12	ASU	12	141	290	424			
CONTINGENCY										
					TOTAL CY/TONS/SY	10082	21275**	31104**	0	0
					SAY	10100	21300**	31200**		

\*ASU = Aggregate Subgrade  
 \*AST = Aggregate Stabilization

\*\*Total tons of "Class IV Subgrade Stabilization" and total square yards of "Geotextile for Soil Stabilization" are only the estimated quantities for ASU/AST and may only represent a portion of the geotextile quantity shown in the Item Sheets of the Proposal.

**STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS**

**PARCEL INDEX SHEET**

PARCEL No.	SHEET No.	PROPERTY OWNER NAME	DEED BOOK
1	4	GREENE CITY PARTNERS, LLC FKA J. T. MANNING	DB 3618 PG 582
2	4	BARBARA DELLANO FKA ARTHUR J. DELLANO	DB 106 PG 2647
3	4	JAMES R. WALKER, JR.	DB 85 PG 177
4	4	JERRY L. VAIL, III FKA JOSEPH HIGGS GOODSON	DB 3792 PG 369
5	4	MITCHELL ANDREWS	DB1559 PG 462
6	4, 5	THOMAS RAY CANNON	DB 590 PG 45
7	4, 5	CARAWAN OIL COMPANY INC.	UNKNOWN
8	5	MOW PROPERTIES, LLC FKA OSCAR L. HOLLOMAN	DB 4113 PG 728
9	5	WANDA G. NOBLES FKA JIMMY R. NOBLES	UNKNOWN
10	5	PITT GROCERY INVESTMENTS, LLC FKA GREGORY EVERETTE FLOYD	DB 4034 PG 403
11	5	CITY OF GREENVILLE	UNKNOWN
12	5, 6	TAR RIVER HOLDINGS, LLC	DB 3536 PG 416-419
13	6	NORFOLK SOUTHERN RR. CO.	UNKNOWN
14	6	HOME BUILDERS AND SUPPLY CO.	DB 781 PG 862
15	6	TAYLOR CAPITAL, LLC	DB 2962 PG 170
16	6	LENDRA HADDOCK FKA BLUEMAX RENTALS, LLC	DB 3484 PF 714
17	6	JESUS GONZALES	DB 1707 PG 397
18	6	OMG PROPERTIES, LLC FKA RICHARD D. LAW	DB 4028 PG 1
19	6,7	MAGDY TAHA	DB 2372 PG 199
20	6, 7	JONATHAN K. SUTTON	DB 2251 PG 860
21	7	MOW PROPERTIES, LLC FKA EUGENE A. SWINDELL	DB 4198 PG 601
22	7	TAYLOR CAPITAL, LLC	DB 2962 PG 170
23	7	WILLIS COMMERCIAL PROPERTIES, LLC	DB 3330 PG 58
24	7	TAHAS PROPERTIES, LLC	DB 3260 PG 296
25	7	WARREN B. CADE	DB 1657 PG 594
26	7	SAAD RENTALS LLC	DB 1936 PG 60
27	7	NC3 & COMPANY, LLC FKA TONY R. ANDREWS	DB 3877 PG 553
28	7, 8	REUBEN GLENN WILEY	DB 3738 PG 256
29	7, 8	MICHAEL W. KENNEDY	DB 2566 PG 181
30	8	MOW PROPERTIES, LLC FKA OSCAR L. HOLLOMAN	DB 4113 PG 715
31	8	CHRISTOPHER W. NUNNALLY	DB 3166 PG 1
33	8	QUANDRA D. ADAMS FKA ALEJANDRO MIRANDA	DB 3685 PG 457
35	8	HELEN STANCIL FKA THOMAS R. HINES	DB 4020 PG 147
37	8	HELEN STANCIL FKA MICHAEL L. SUTTON	DB 4020 PG 147
38	8	AMANDO E. PENA	DB 1602 PG 500

PARCEL No.	SHEET No.	PROPERTY OWNER NAME	DEED BOOK
38	8	AMANDO E. PENA	DB 915 PG 139
39	8	RONALD MILLER	DB 2992 PG 422
41	8	EPK & ASSOCIATES, LLC	DB 2406 PG 334
42	8	CLIFTON E. WILLIAMS FKA DAVID DOUGLAS	DB 3831 PG 822
43	8, 9	PRINCE PROPERTIES OF GREENVILLE INC.	DB 2792 PG 772
44	8	NICHOLAS WALLACE	DB 2448 PG 592
45	8, 9	MOW PROPERTIES, LLC FKA OSCAR L. HOLLOMAN	DB 4113 PG 715
46	9	ROTONIA S. LOWERY FKA CURTIS DONYELL MOORE	DB 2018E PG 574
47A	9	T DEEC HOLDINGS, LLC	DB 2868 PG 649
47B	9	T DEEC HOLDINGS, LLC	DB 2918 PG 510
48	9	A TOUCH OF GODS PRESENCE MINISTRIES INC.	DB 2698 PG 728
50	9	WILLIAM GRAY BLOUNT, JR.	UNKNOWN
51	9	INDY I, LLC	UNKNOWN
52	9	EARTH PROPERTY MANAGEMENT, LLC FKA BRODERICK BEST	DB 4063 PG 607
53	9	SCF PROPERTIES, LLC	DB 2653 PG 382
55	9	MOW PROPERTIES, LLC FKA OSCAR L. HOLLOMAN	DB 4113 PG 715
56	9	JULIUS S. SUMMRELL	DB 695 PG 824
57	9	LUDLOW MANAGEMENT, LLC	DB 2579 PG 719
58	9, 10	SUZANNE O. MOYE FKA ROBERT S. MOYE HEIRS C/O ROBERT S. MOYE, JR.	DB 3854 PG 812
59	9	JAMES A. BROWN & DARRYL D. HARTSFIELD FKA BISHOP ARIZONA H. HARTSFIELD	DB 105 PG 138
60	9, 10	JAMES A. BROWN & DARRYL D. HARTSFIELD FKA JAMES A. BROWN & ARIZONA H. HARTSFIELD	DB 105 PG 138
61, 61Z	10	DICKINSON M, LLC FKA LOUISE FINK DUNCAN & MARY ANN DUNCAN GROOME	DB 3842 PG 434
62	10	COUNTRY FARMS, LLC	DB 1272 PG 781
63, 63Z	10	MICHAEL WHITE	DB 3182 PG 46
64	10	TAYLOR CAPITAL, LLC	DB 2962 PG 170
65, 65Z	10	DICKINSON M, LLC FKA LUDLOW MANAGEMENT, LLC	DB 3717 PG 204
67	10	ANDERSON & SONS, INC FKA COREY HERBERT	DB 3589 PG 359
68, 68Z	10	DEPARTMENT OF TRANSPORTATION	UNKNOWN
69, 69Z	11	CITY OF GREENVILLE	DB 3035 PG 638
70	11	907 DICKINSON, LLC FKA SAAD RENTALS, LLC	DB 3871 PG 742
72	11	IMPERIAL HOLDINGS, LLC FKA Z RENTALS LLC	DB 3885 PG 578
73	11	818 CLARK STREET, LLC FKA OSCAR HOLLOMAN	DB 4106 PG 429
74	11	DEPARTMENT OF TRANSPORTATION	DB 3278 PG 539
75	11	FKA MERRITT RENTALS, LLC - NO PARCEL	DB 2539 PG 505







**NOTES:**  
 1. TIE TO EXIST CURB AND GUTTER AT EXIST CONCRETE JOINT  
 TRANSITION 2'-6" C&G TO MATCH EXIST GUTTER WIDTH AS NECESSARY  
 2. TIE TO EXISTING CONCRETE SIDEWALK  
 3. LIMITS OF PAVEMENT REMOVAL AND REPLACEMENT  
 4. ADJUSTMENT OF MANHOLE  
 5. ADJUSTMENT OF METER OR VALVE BOX  
 6. REMOVE AND STOCKPILE EXISTING GRANITE CURB  
 7. RETAIN EXISTING STRAIN POLE

2022 ADT	2042 ADT	-YI- MEMORIAL DRIVE (US 13/NC 114/43/903)	
		21950	24450
DHV = 9%			
DIR = 60%			
TTST = 1%			
DUAL = 2%			
		10930	10830
		3730	4030
		1060	1660
		1050	1550
		3530	3830
		21650	24150
		1050	1550
		3530	3830
		21650	24150

**-L-**  
 PI Sta. 22+35.26  
 $\Delta = 3' 21' 08.7" (LT)$   
 $D = 1' 38' 13.3"$   
 $L = 204.79'$   
 $T = 102.42'$   
 $R = 3,500.00'$   
 SE = SEE PLANS  
 RO = SEE PLANS

**-YI-**  
 PI Sta. 18+66.67  
 $\Delta = 43' 31' 23.9" (RT)$   
 $D = 7' 00' 00.0"$   
 $L = 621.76'$   
 $T = 326.75'$   
 $R = 818.51'$   
 SE = EXISTING  
 RO = EXISTING

**-RAMP-**  
 PI Sta. 12+83.37  
 $\Delta = 28' 58' 33.3" (RT)$   
 $D = 7' 12' 25.3"$   
 $L = 402.05'$   
 $T = 205.42'$   
 $R = 795.00'$   
 SE = EXISTING  
 RO = EXISTING

**BEGIN TIP PROJECT U-5606  
 BEGIN CONSTRUCTION  
 -L- POT Sta. 17+26.03  
 BEGIN MILLING AND RESURFACING  
 JOHN A. CONWAY III  
 DB 3825 PG 447**

**-L- POT Sta. 16+82.31 =  
 -YI- POC Sta. 19+12.05  
 $\Delta = 114' 25' 52.69"$**

**END MILLING AND RESURFACING  
 BEGIN PAVEMENT REMOVAL  
 AND REPLACEMENT  
 -L- POT Sta. 19+50.00**

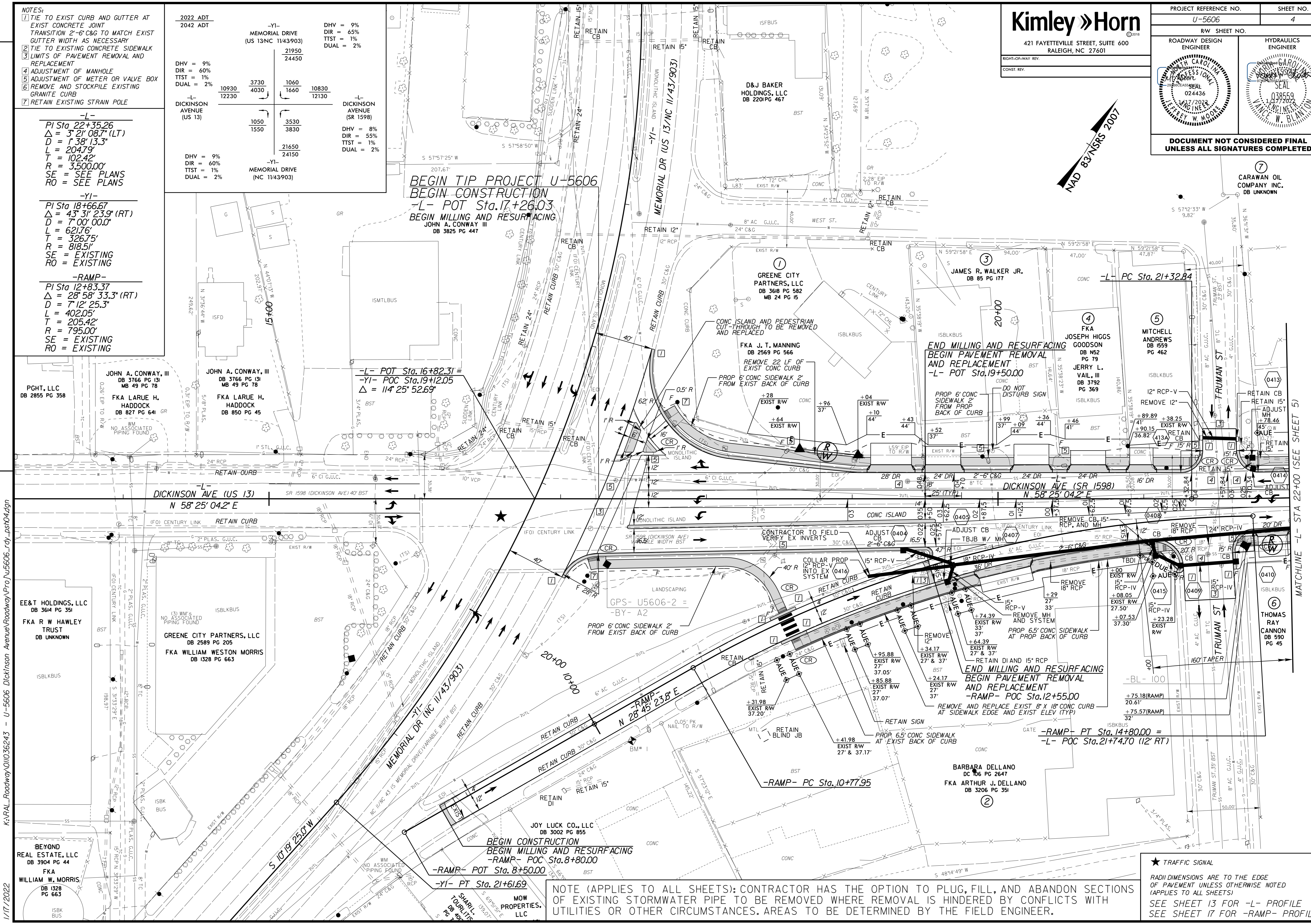
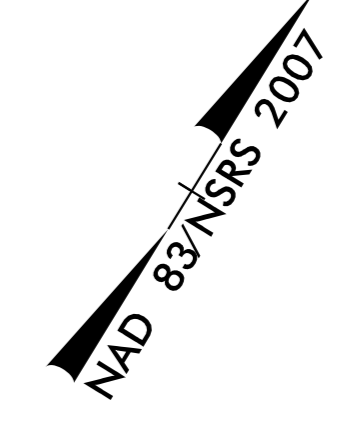
**BEGIN CONSTRUCTION  
 BEGIN MILLING AND RESURFACING  
 -RAMP- POC Sta. 8+80.00  
 -YI- PT Sta. 21+61.69**

**-RAMP- PT Sta. 14+80.00 =  
 -L- POC Sta. 21+74.70 (12' RT)**

NOTE (APPLIES TO ALL SHEETS): CONTRACTOR HAS THE OPTION TO PLUG, FILL, AND ABANDON SECTIONS OF EXISTING STORMWATER PIPE TO BE REMOVED WHERE REMOVAL IS HINDERED BY CONFLICTS WITH UTILITIES OR OTHER CIRCUMSTANCES. AREAS TO BE DETERMINED BY THE FIELD ENGINEER.

★ TRAFFIC SIGNAL  
 RADII DIMENSIONS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED (APPLIES TO ALL SHEETS)  
 SEE SHEET 13 FOR -L- PROFILE  
 SEE SHEET 17 FOR -RAMP- PROFILE

REVISIONS



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1/17/2022

MATCHLINE -L- STA 22+00 (SEE SHEET 5)



- NOTES:**
- TIE TO EXIST CURB AND GUTTER AT EXIST CONCRETE JOINT TRANSITION 2'-6" C&G TO MATCH EXIST GUTTER WIDTH AS NECESSARY
  - LIMITS OF PAVEMENT REMOVAL AND REPLACEMENT
  - ADJUSTMENT OF MANHOLE
  - ADJUSTMENT OF METER OR VALVE BOX
  - REMOVE AND STOCKPILE EXISTING GRANITE CURB
  - RETAIN EXISTING MAST ARM
  - SAWCUT A NEAT EDGE LINE AND REMOVE EXIST PARKING LOT PAVEMENT

2022 ADT	-Y2- MOYE BOULEVARD (SR 1139)		10920	
2042 ADT			12120	
	640	1550	13460	
	10830	12130	2050	15060
	1250	3070		
	1750	3770		
	-Y2- HOOKER ROAD		13050	
			14550	

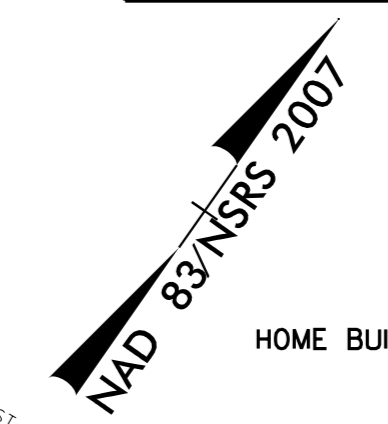
**-L-**  
 PI Sta 22+35.26  
 $\Delta = 3' 21'' 08.7''$  (LT)  
 $D = 1' 38'' 13.3''$   
 $L = 204.79'$   
 $T = 102.42'$   
 $R = 3,500.00'$   
 SE = SEE PLANS  
 RO = SEE PLANS

**-Y2-**  
 PI Sta 13+76.05  
 $\Delta = 22' 00'' 37.0''$  (RT)  
 $D = 1' 27'' 33.0''$   
 $L = 192.08'$   
 $T = 97.24'$   
 $R = 500.00'$   
 SE = EXISTING  
 RO = EXISTING

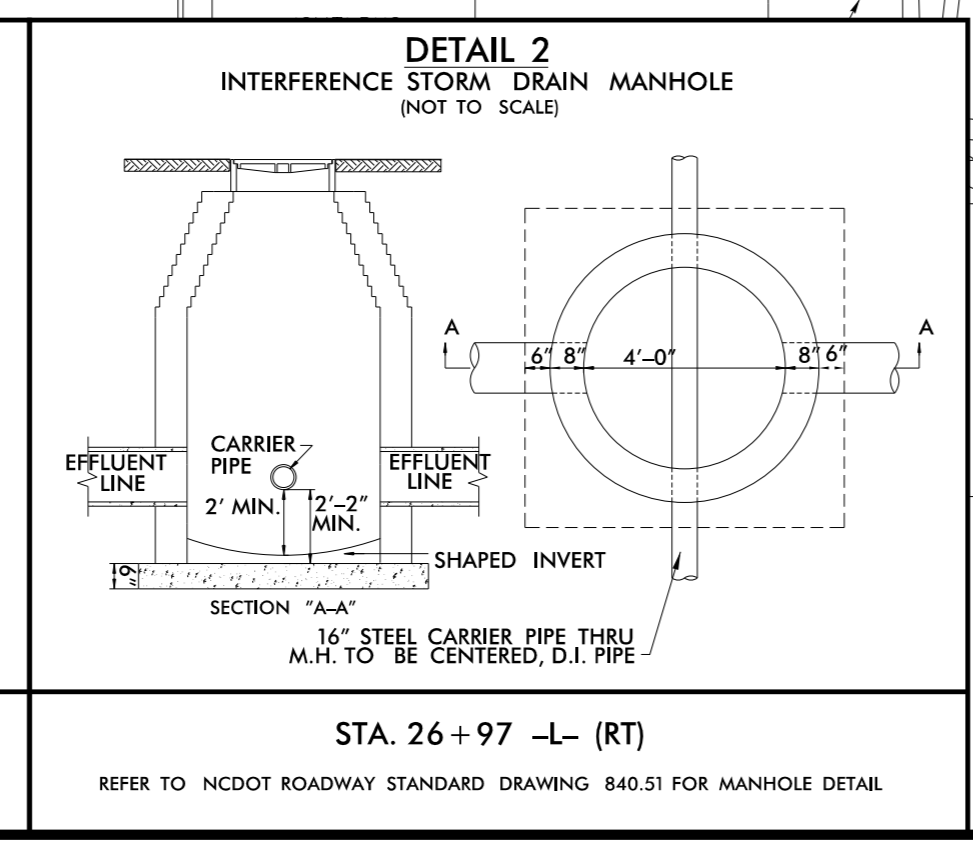
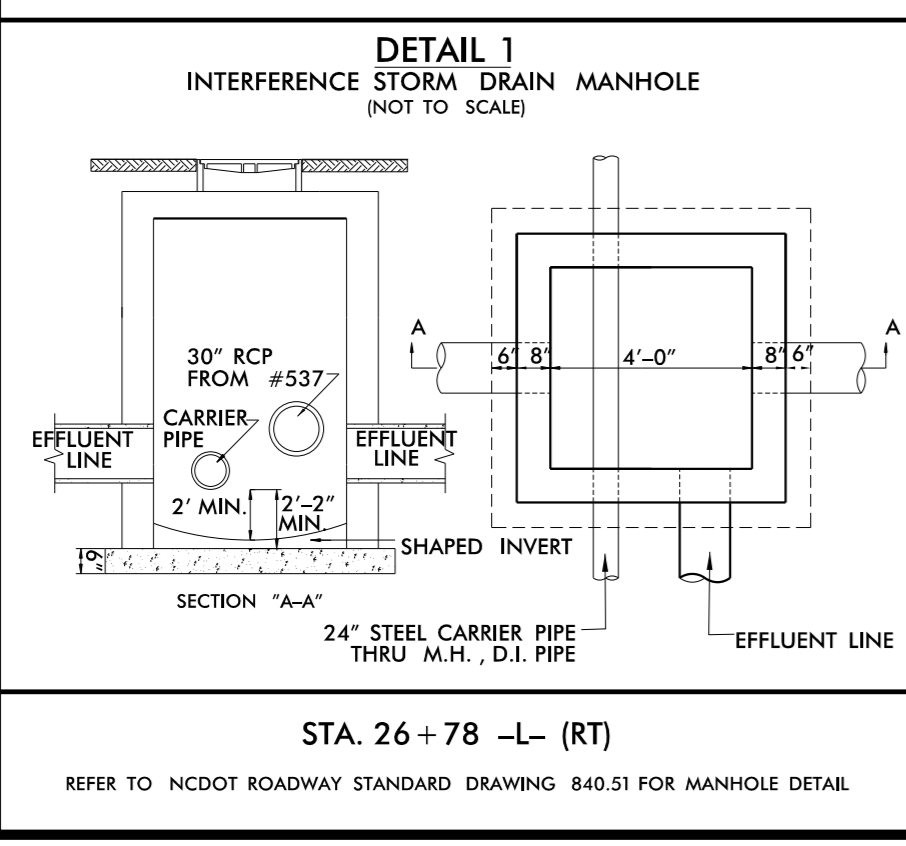
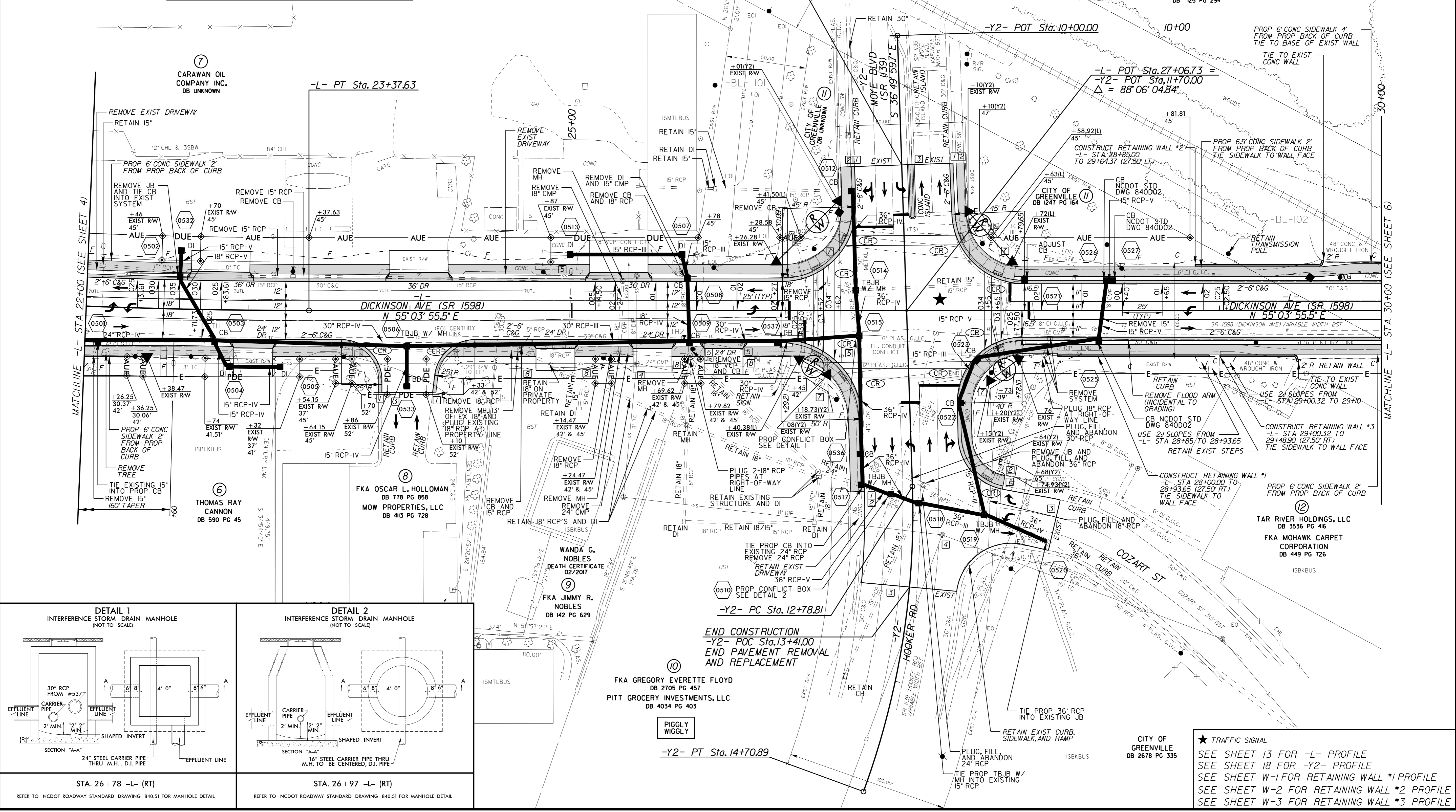
**Kimley Horn**  
 421 FAYETTEVILLE STREET, SUITE 600  
 RALEIGH, NC 27601

PROJECT REFERENCE NO. U-5606	SHEET NO. 5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
SEAL	SEAL
DATE: 1/17/2022	DATE: 1/17/2022
NAME: J. FREY W. MOORE	NAME: W. BLANTON

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**



HOME BUILDER & SUPPLY COMPANY  
 DB 3289 PG 248  
 FKA MARJORIE CLARK  
 WEATHERS HEIRS  
 DB 125 PG 294



★ TRAFFIC SIGNAL  
 SEE SHEET 13 FOR -L- PROFILE  
 SEE SHEET 18 FOR -Y2- PROFILE  
 SEE SHEET W-1 FOR RETAINING WALL #1 PROFILE  
 SEE SHEET W-2 FOR RETAINING WALL #2 PROFILE  
 SEE SHEET W-3 FOR RETAINING WALL #3 PROFILE

REVISIONS

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1/17/2022



- NOTES:
- TIE TO EXIST CURB AND GUTTER AT EXIST CONCRETE JOINT TRANSITION 2'-6" C&G TO MATCH EXIST GUTTER WIDTH AS NECESSARY
  - TIE TO EXISTING CONCRETE SIDEWALK
  - LIMITS OF PAVEMENT REMOVAL AND REPLACEMENT
  - ADJUSTMENT OF MANHOLE
  - ADJUSTMENT OF METER OR VALVE BOX
  - REMOVE AND STOCKPILE EXISTING GRANITE CURB
  - RETAIN EXISTING MAST ARM
  - REMOVE EXIST BOX CULVERT AND REPLACE WITH 18" RCP - V

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

PROJECT REFERENCE NO. U-5606 SHEET NO. 6  
 R/W SHEET NO.

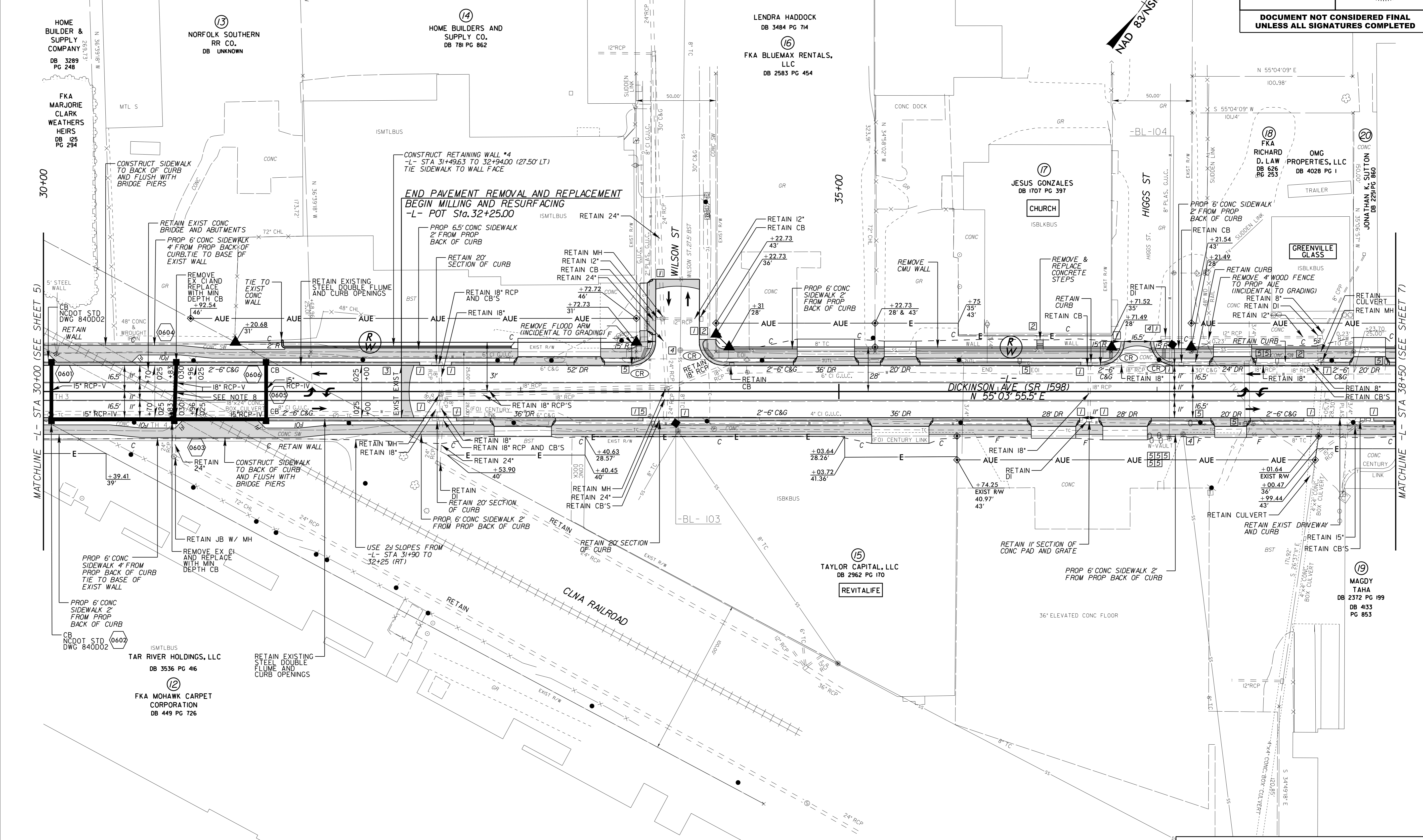
ROADWAY DESIGN ENGINEER  
 HYDRAULICS ENGINEER

STATE OF NORTH CAROLINA  
 PROFESSIONAL SEAL  
 024436  
 1/17/2022  
 KIMLEY W. HORN

STATE OF NORTH CAROLINA  
 PROFESSIONAL SEAL  
 038559  
 1/17/2022  
 WANCE W. BLANTON

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

REVISIONS



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1/17/2022

SEE SHEET 14 FOR -L- PROFILE  
SEE SHEET W-4 FOR RETAINING WALL #4 PROFILE



- NOTES:
- TIE TO EXIST CURB AND GUTTER AT EXIST CONCRETE JOINT
  - TRANSITION 2'-6" C&G TO MATCH EXIST GUTTER WIDTH AS NECESSARY
  - TIE TO EXISTING CONCRETE SIDEWALK LIMITS OF PAVEMENT REMOVAL AND REPLACEMENT
  - ADJUSTMENT OF MANHOLE
  - ADJUSTMENT OF METER OR VALVE BOX
  - REMOVE AND STOCKPILE EXISTING GRANITE CURB
  - RETAIN EXISTING MAST ARM

**Kimley Horn**

421 FAYETTEVILLE STREET, SUITE 600  
RALEIGH, NC 27601

PROJECT REFERENCE NO. U-5606 SHEET NO. 7

R/W SHEET NO.

ROADWAY DESIGN ENGINEER  
HYDRAULICS ENGINEER

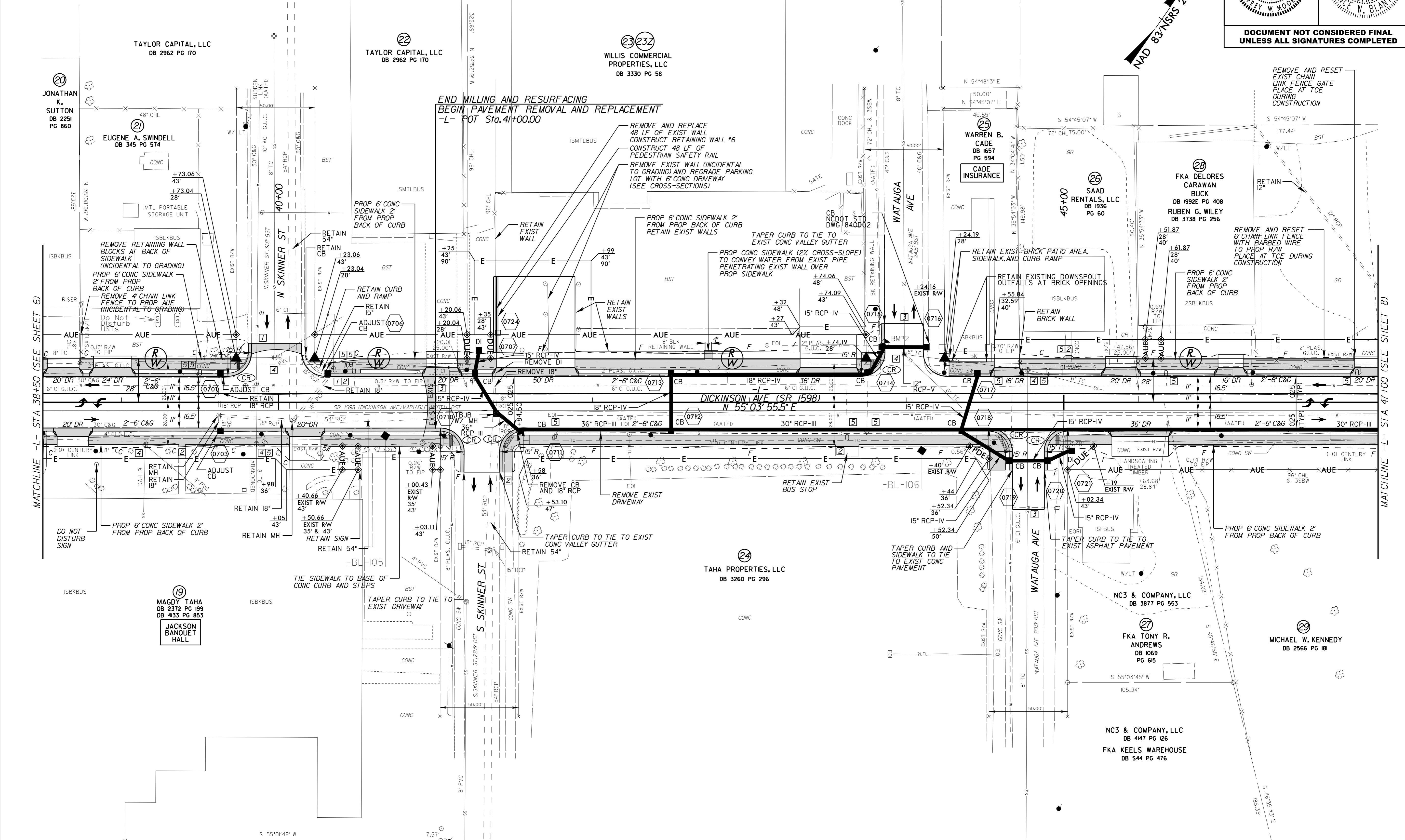
STATE OF NORTH CAROLINA  
REGISTERED PROFESSIONAL ENGINEER  
024436  
1/17/2022  
FREY W. MOORE

STATE OF NORTH CAROLINA  
REGISTERED PROFESSIONAL ENGINEER  
030559  
1/17/2022  
VANCE W. BLANTON

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UNLESS ALL SIGNATURES COMPLETED

REVISIONS

NAD 83 NSRS 2007



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1/17/2022

NOTE: CONTRAC TO BE T AREAS

SEE SHEET 14 FOR -L- PROFILE  
SEE SHEET W-5 FOR RETAINING WALL #6 PROFILE

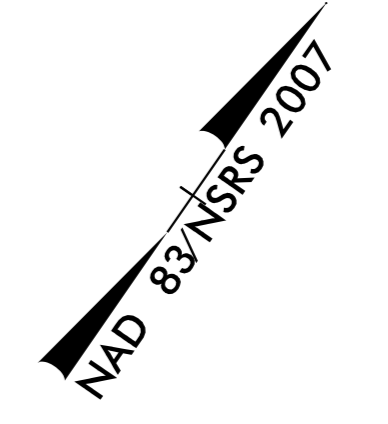


- NOTES:
- TIE TO EXIST CURB AND GUTTER AT EXIST CONCRETE JOINT
  - TRANSITION 2'-6" C&G TO MATCH EXIST GUTTER WIDTH AS NECESSARY
  - TIE TO EXISTING CONCRETE SIDEWALK LIMITS OF PAVEMENT REMOVAL AND REPLACEMENT
  - ADJUSTMENT OF MANHOLE
  - ADJUSTMENT OF METER OR VALVE BOX
  - REMOVE AND STOCKPILE EXISTING GRANITE CURB
  - RETAIN EXISTING MAST ARM
  - TAPER CURB TO TIE TO EXIST GRANITE CURB

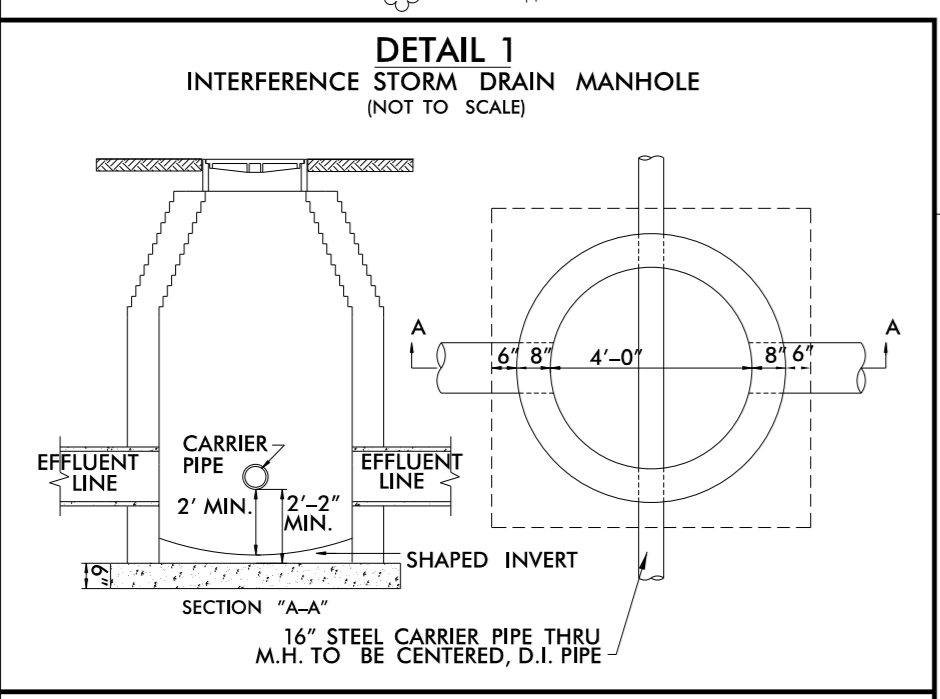
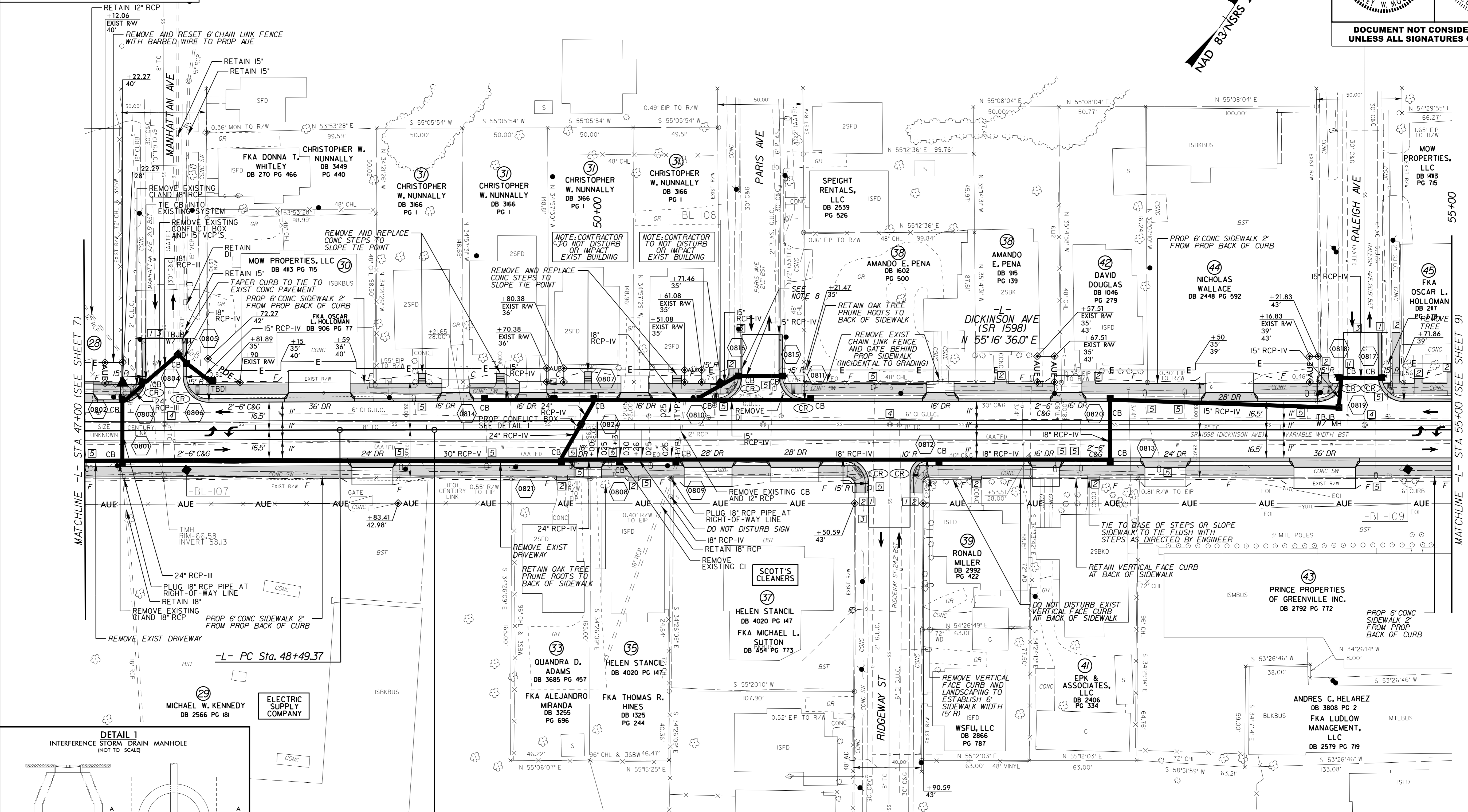
-L-  
 PI Sta 48+77.02  
 $\Delta = 0'12'40.6"$  (RT)  
 $D = 0'22'55.1"$   
 $L = 55.31'$   
 $T = 27.65'$   
 $R = 15,000.00'$   
 $SE = NC$   
 $RO = NONE$

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

PROJECT REFERENCE NO. U-5606	SHEET NO. 8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



REVISIONS



STA. 49+90 -L- (LT)  
 REFER TO NCDOT ROADWAY STANDARD DRAWING 840.51 FOR MANHOLE DETAIL

SEE SHEET 15 FOR -L- PROFILE

K:\RAL\_Roadway\01036243 - U-5606 Dickinson Avenue\Roadway\Proj\U5606\_rdy\_pst\08.dgn 1/17/2022



- NOTES:
- TIE TO EXIST CURB AND GUTTER AT EXIST CONCRETE JOINT
  - TRANSITION 2'-6" C&G TO MATCH EXIST GUTTER WIDTH AS NECESSARY
  - LIMITS OF PAVEMENT REMOVAL AND REPLACEMENT
  - ADJUSTMENT OF MANHOLE
  - ADJUSTMENT OF METER OR VALVE BOX
  - REMOVE AND STOCKPILE EXISTING GRANITE CURB
  - RETAIN EXISTING MAST ARM
  - SAWCUT A NEAT EDGE LINE AND REMOVE EXIST PARKING LOT PAVEMENT
  - REMOVE EXIST CB AND 15' RCP

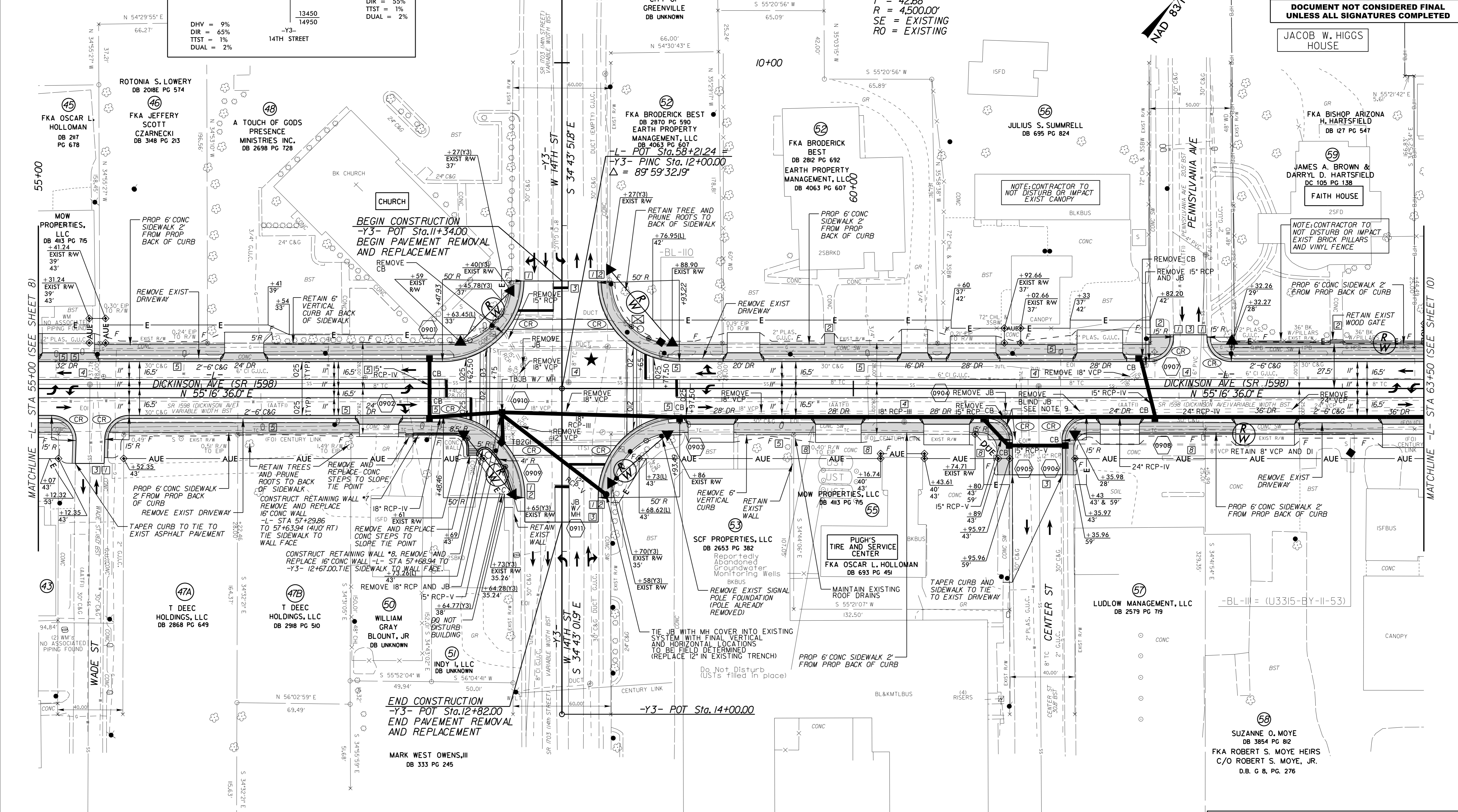
2022 ADT	11560		
2042 ADT	9160		
-Y3- 14TH STREET			
DHV = 9%	490	3420	9620
DIR = 55%	390	1620	5820
TTST = 1%			
DUAL = 2%			
-L- DICKINSON AVENUE (SR 1598)			
DHV = 9%	5080	830	
DIR = 55%	7880	130	
TTST = 1%			
DUAL = 2%			
-Y3- 14TH STREET			
DHV = 9%			
DIR = 65%			
TTST = 1%			
DUAL = 2%			

43 PRINCE PROPERTIES OF GREENVILLE INC. DB 2792 PG 712

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

PROJECT REFERENCE NO. U-5606	SHEET NO. 9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
JACOB W. HIGGS HOUSE	

REVISIONS



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1/17/2022

★ TRAFFIC SIGNAL  
SEE SHEET 15 FOR -L- PROFILE  
SEE SHEET 18 FOR -Y3- PROFILE  
SEE SHEET W-6 FOR RETAINING WALL #7 PROFILE  
SEE SHEET W-7 FOR RETAINING WALL #8 PROFILE



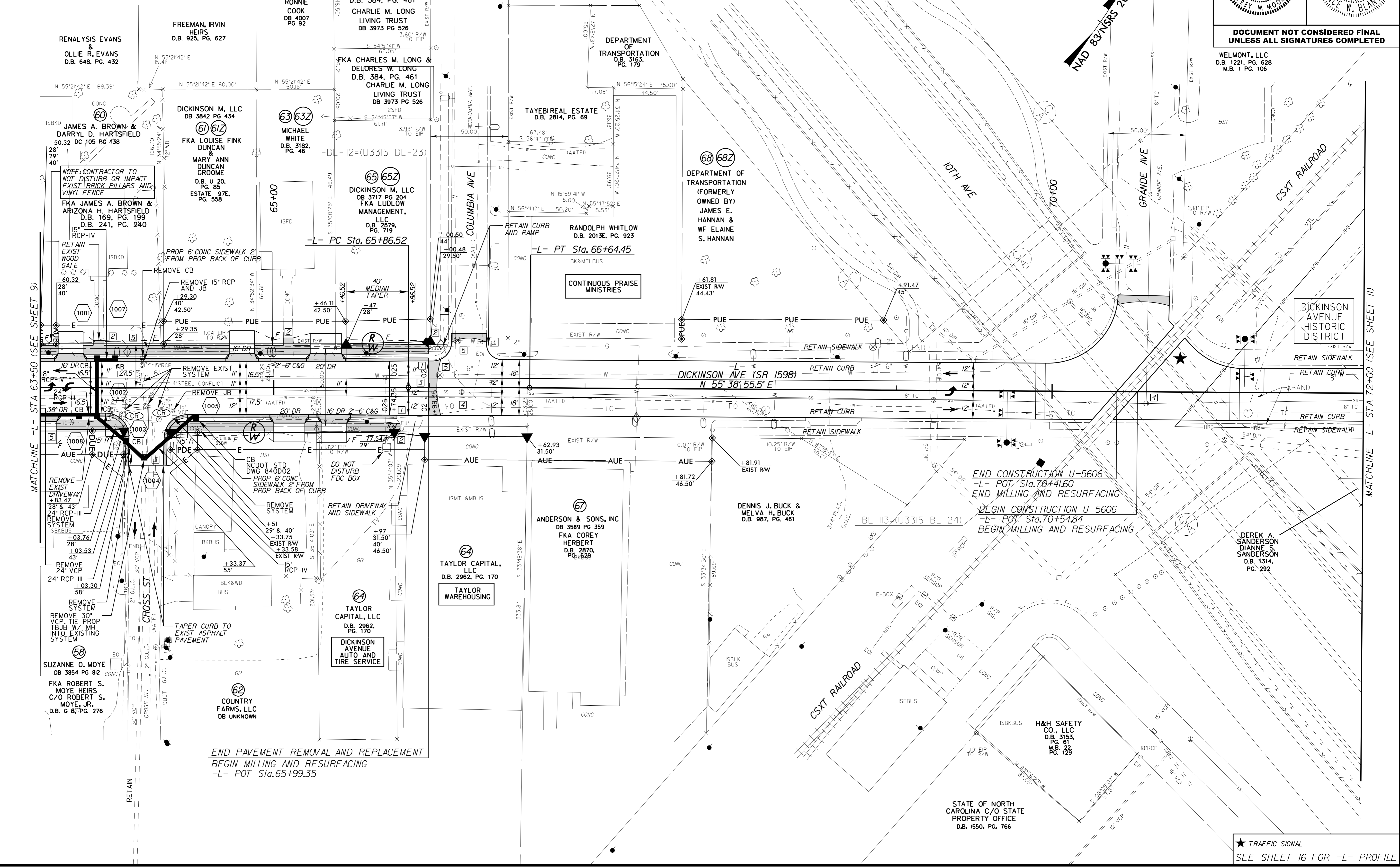
- NOTES:
- TIE TO EXIST CURB AND GUTTER AT EXIST CONCRETE JOINT TRANSITION 2'-6" C&G TO MATCH EXIST GUTTER WIDTH AS NECESSARY
  - TIE TO EXISTING CONCRETE SIDEWALK LIMITS OF PAVEMENT REMOVAL AND REPLACEMENT
  - ADJUSTMENT OF MANHOLE
  - ADJUSTMENT OF METER OR VALVE BOX
  - REMOVE AND STOCKPILE EXISTING GRANITE CURB
  - RETAIN EXISTING MAST ARM

-L-  
 PI Sta. 66+25.48  
 $\Delta = 0' 22' 19.5" (RT)$   
 $D = 0' 28' 38.9"$   
 $L = 77.93'$   
 $T = 38.96'$   
 $R = 12,000.00'$   
 SE = EXISTING  
 RO = EXISTING

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

PROJECT REFERENCE NO. U-5606	SHEET NO. 10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER HERBERT S. COREY & JO ANNE W. COREY	HYDRAULICS ENGINEER VANCE W. BLANTON
<p>STATE OF NORTH CAROLINA          PROFESSIONAL SEAL          024436          HERBERT S. COREY          038559          VANCE W. BLANTON</p>	
<p><b>DOCUMENT NOT CONSIDERED FINAL          UNLESS ALL SIGNATURES COMPLETED</b></p>	
WELMONT, LLC D.B. 1221, PG. 628 M.B. 1 PG. 106	

DEPARTMENT OF TRANSPORTATION  
 D.B. 3145, PG. 141  
 (FORMERLY OWNED BY)  
 HERBERT S. COREY & JO ANNE W. COREY



REVISIONS

MATCHLINE -L- STA 63+50 (SEE SHEET 9)

MATCHLINE -L- STA 72+00 (SEE SHEET 11)

END PAVEMENT REMOVAL AND REPLACEMENT  
 BEGIN MILLING AND RESURFACING  
 -L- POT Sta. 65+99.35

END CONSTRUCTION U-5606  
 -L- POT Sta. 70+41.60  
 END MILLING AND RESURFACING  
 BEGIN CONSTRUCTION U-5606  
 -L- POT Sta. 70+54.84  
 BEGIN MILLING AND RESURFACING

★ TRAFFIC SIGNAL  
 SEE SHEET 16 FOR -L- PROFILE

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1/17/2022



- NOTES:
- TIE TO EXIST CURB AND GUTTER AT EXIST CONCRETE JOINT TRANSITION 2'-6" C&G TO MATCH EXIST GUTTER WIDTH AS NECESSARY
  - TIE TO EXISTING CONCRETE SIDEWALK LIMITS OF PAVEMENT REMOVAL AND REPLACEMENT
  - ADJUSTMENT OF MANHOLE
  - ADJUSTMENT OF METER OR VALVE BOX
  - REMOVE AND STOCKPILE EXISTING GRANITE CURB
  - RETAIN EXISTING MAST ARM
  - PROP CONC SIDEWALK (VAR) ON PROP BACK OF CURB TIE TO EXIST BUILDING FACE
  - REMOVE EXISTING CONC ISLAND
  - PROP 6" CONC SIDEWALK AT BACK OF CURB
  - PROPOSED CIVIC ART AREA SEE STREETScape PLANS

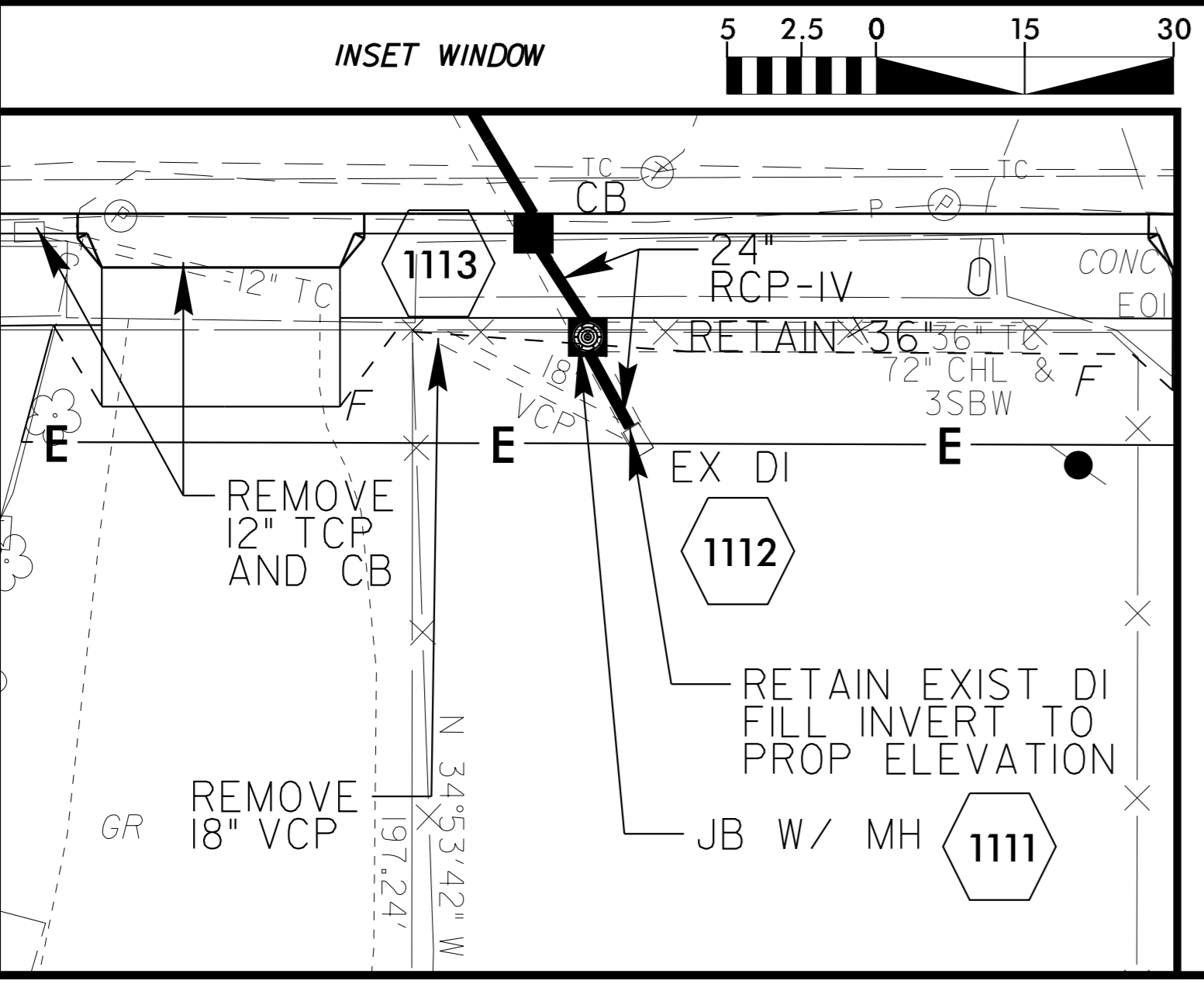
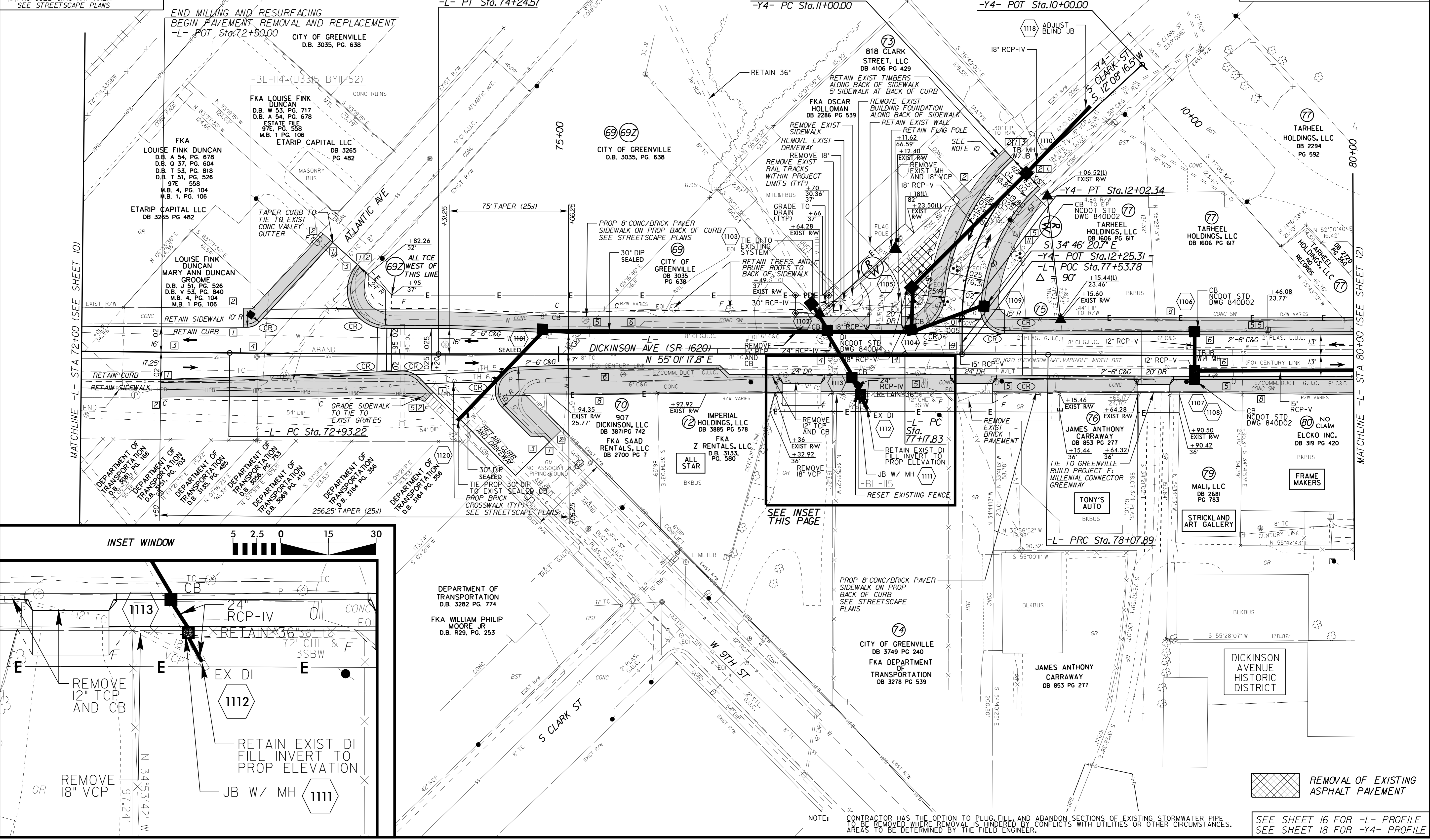
-L-	-L-	-L-	-Y4-
PI Sta 73+58.90 Δ = 0° 37' 37.7" (LT) D = 0° 28' 38.9" L = 131.35' T = 65.68' R = 12,000.00' SE = EXISTING RO = EXISTING	PI Sta 77+62.86 Δ = 0° 30' 57.6" (RT) D = 0° 34' 22.6" L = 90.06' T = 45.03' R = 10,000.00' SE = NC RO = NONE	PI Sta 79+26.57 Δ = 0° 54' 23.7" (LT) D = 0° 22' 55.1" L = 237.35' T = 118.67' R = 15,000.00' SE = NC RO = NONE	PI Sta 11+54.24 Δ = 46° 54' 37.2" (LT) D = 45° 50' 11.8" L = 102.34' T = 54.24' R = 125.00' SE = RC RO = NONE

75 MERRITT RENTALS, LLC  
DB 2539 PG 505

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

PROJECT REFERENCE NO. U-5606	SHEET NO. 11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISIONS



REMOVAL OF EXISTING ASPHALT PAVEMENT

NOTE: CONTRACTOR HAS THE OPTION TO PLUG, FILL, AND ABANDON SECTIONS OF EXISTING STORMWATER PIPE TO BE REMOVED WHERE REMOVAL IS HINDERED BY CONFLICTS WITH UTILITIES OR OTHER CIRCUMSTANCES. AREAS TO BE DETERMINED BY THE FIELD ENGINEER.

SEE SHEET 16 FOR -L- PROFILE  
SEE SHEET 18 FOR -Y4- PROFILE

K:\RAL\_Roadway\01036243 - U-5606 Dickinson Avenue Roadway Proj\U5606\_rdy\_pshl.dgn 1/17/2022

MATCHLINE -L- STA 72+00 (SEE SHEET 10)

MATCHLINE -L- STA 80+00 (SEE SHEET 12)



NOTES:

- 1) TIE TO EXIST CURB AND GUTTER AT EXIST CONCRETE JOINT
- 2) TRANSITION 2'-6" C&G TO MATCH EXIST GUTTER WIDTH AS NECESSARY
- 3) TIE TO EXISTING CONCRETE SIDEWALK
- 4) LIMITS OF PAVEMENT REMOVAL AND REPLACEMENT
- 5) ADJUSTMENT OF MANHOLE
- 6) ADJUSTMENT OF METER OR VALVE BOX
- 7) GUTTER WIDTH AS NECESSARY
- 8) REMOVE AND STOCKPILE EXISTING GRANITE CURB
- 9) RETAIN EXISTING MAST ARM
- 10) PROP CONC/BRICK PAVER SIDEWALK (VARI) ON PROP BACK OF CURB
- 11) TIE TO EXIST BUILDING FACE
- 12) REPLACE IN EXISTING TRENCH
- 13) PROPOSED JB W/ MH
- 14) RETAIN EXIST CURB RAMP

2022 ADT	11930
2042 ADT	13230
5880	3540
8680	4940
1220	310
2420	410
9510	1540
10610	1940

DH = 8%  
DIR = 60%  
TTST = 1%  
DUAL = 2%

DH = 8%  
DIR = 60%  
TTST = 1%  
DUAL = 2%

DH = 8%  
DIR = 60%  
TTST = 1%  
DUAL = 2%

DH = 8%  
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TTST = 1%  
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DH = 8%  
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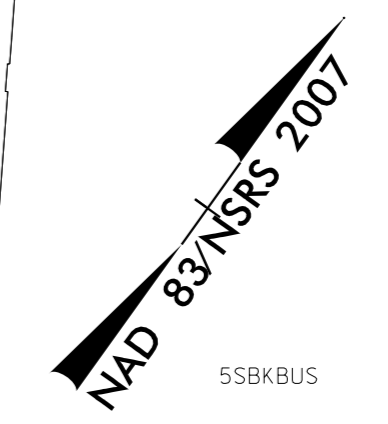
-L-		
PI Sta 84+43.48	PI Sta 84+95.90	PI Sta 88+57.73
$\Delta = 12^{\circ}09'32.2" (LT)$	$\Delta = 11^{\circ}52'31.1" (RT)$	$\Delta = 49^{\circ}09'48.7" (RT)$
$D = 22^{\circ}55'05.9"$	$D = 22^{\circ}55'05.9"$	$D = 57^{\circ}17'44.8"$
$L = 53.05'$	$L = 51.82'$	$L = 85.81'$
$T = 26.63'$	$T = 26.00'$	$T = 45.75'$
$R = 250.00'$	$R = 250.00'$	$R = 100.00'$
SE = NC	SE = NC	SE = EXISTING
RO = NONE	RO = NONE	RO = EXISTING

BRICK CROSSWALK  
SEE SHEET 2C-10

# Kimley » Horn

421 FAYETTEVILLE STREET, SUITE 600  
RALEIGH, NC 27601

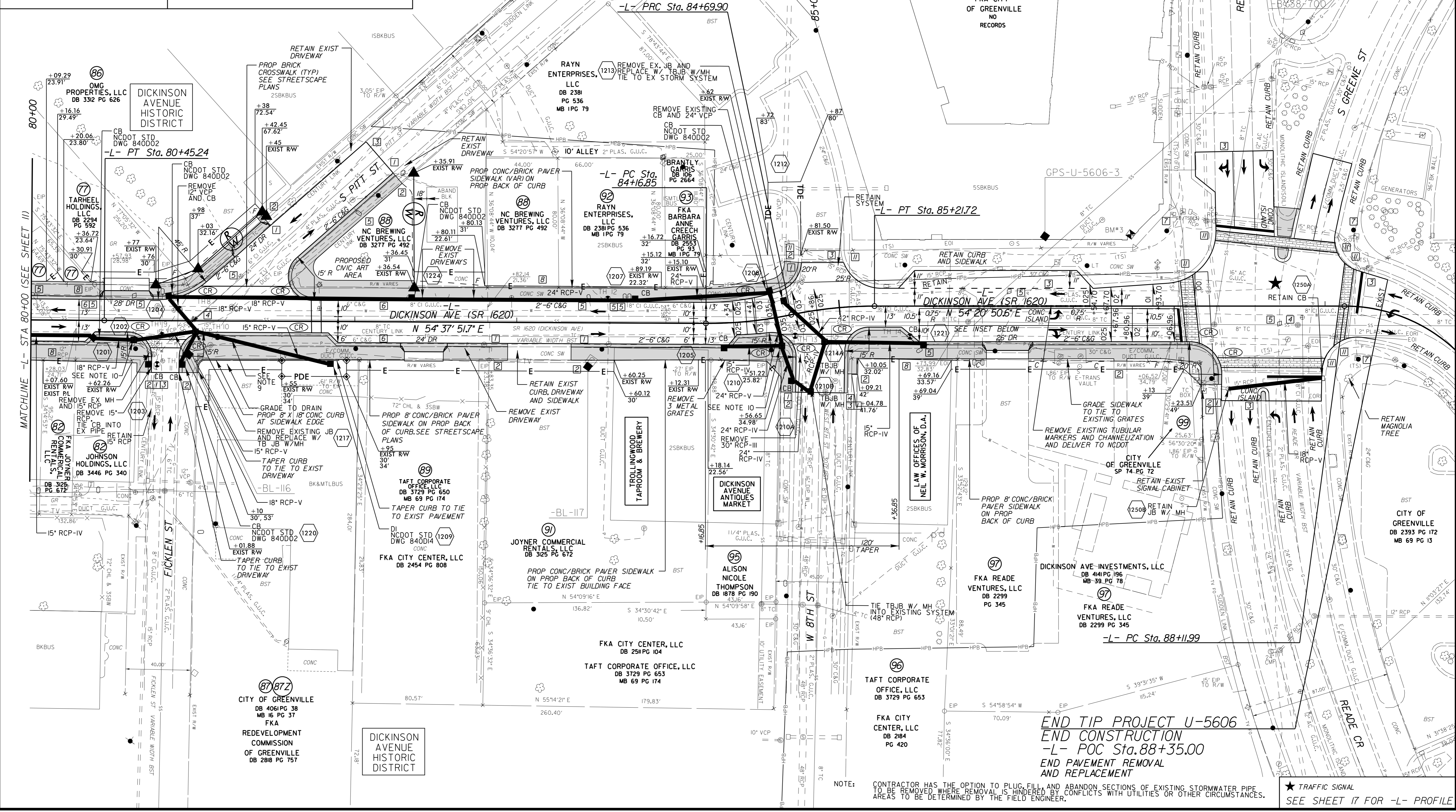
RIGHT-OF-WAY REV.  
CONST. REV.



PROJECT REFERENCE NO.	U-5606
SHEET NO.	12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

REVISIONS



SIDEWALK  
GREENVILLE, LLC  
DB 3526 PG 65  
94  
FKA CITY  
OF GREENVILLE  
NO  
RECORDS

GPS-U-5606-3

CITY OF GREENVILLE  
SP 14 PG 72

CITY OF GREENVILLE  
DB 2393 PG 172  
MB 69 PG 13

END TIP PROJECT U-5606  
END CONSTRUCTION  
-L- POC Sta. 88+35.00  
END PAVEMENT REMOVAL  
AND REPLACEMENT

NOTE: CONTRACTOR HAS THE OPTION TO PLUG, FILL, AND ABANDON SECTIONS OF EXISTING STORMWATER PIPE TO BE REMOVED WHERE REMOVAL IS HINDERED BY CONFLICTS WITH UTILITIES OR OTHER CIRCUMSTANCES.

★ TRAFFIC SIGNAL  
SEE SHEET 17 FOR -L- PROFILE

K:\RAL\_Roadway\01036243 - U-5606 Dickinson Avenue\Roadway\Proj\U5606\_rdy\_psh2.dgn

1/17/2022

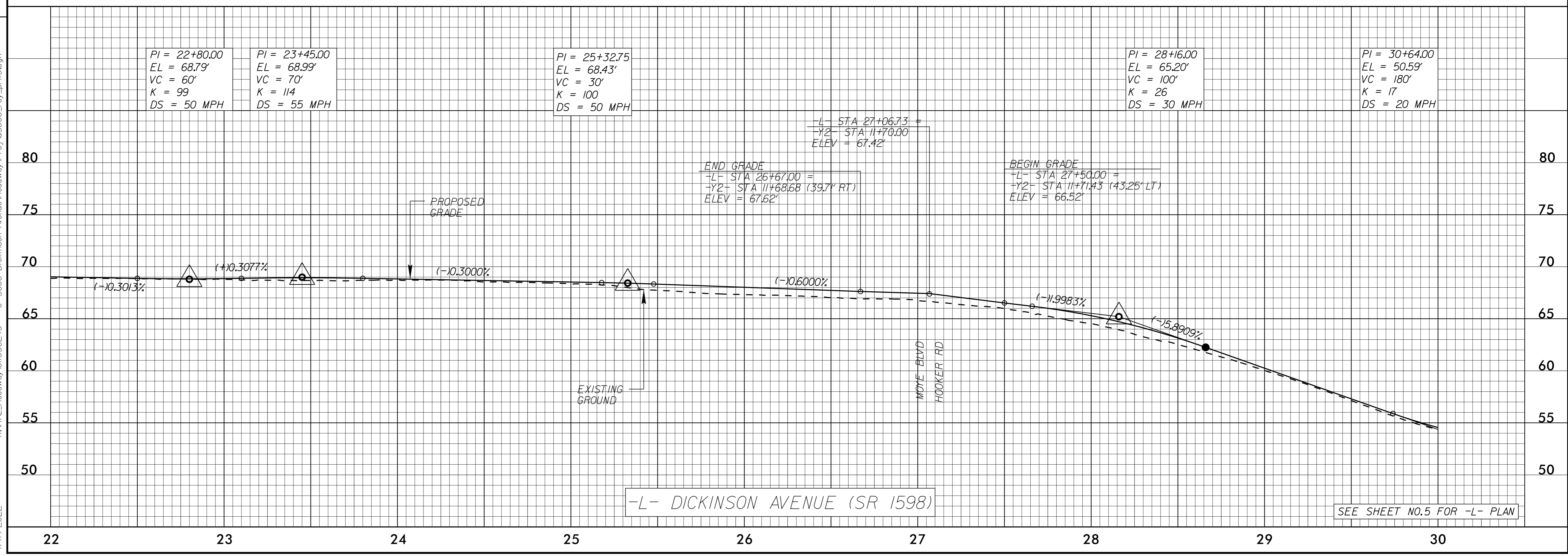
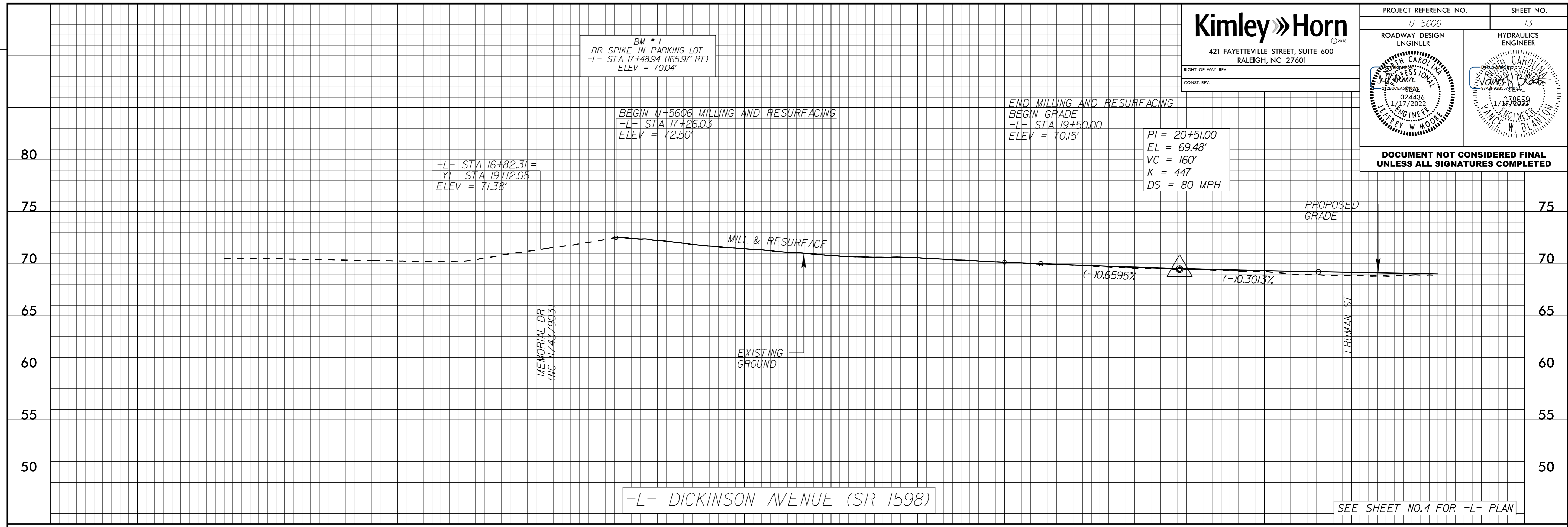


**Kimley»Horn**  
 421 FAYETTEVILLE STREET, SUITE 600  
 RALEIGH, NC 27601

PROJECT REFERENCE NO. U-5606	SHEET NO. 13
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS

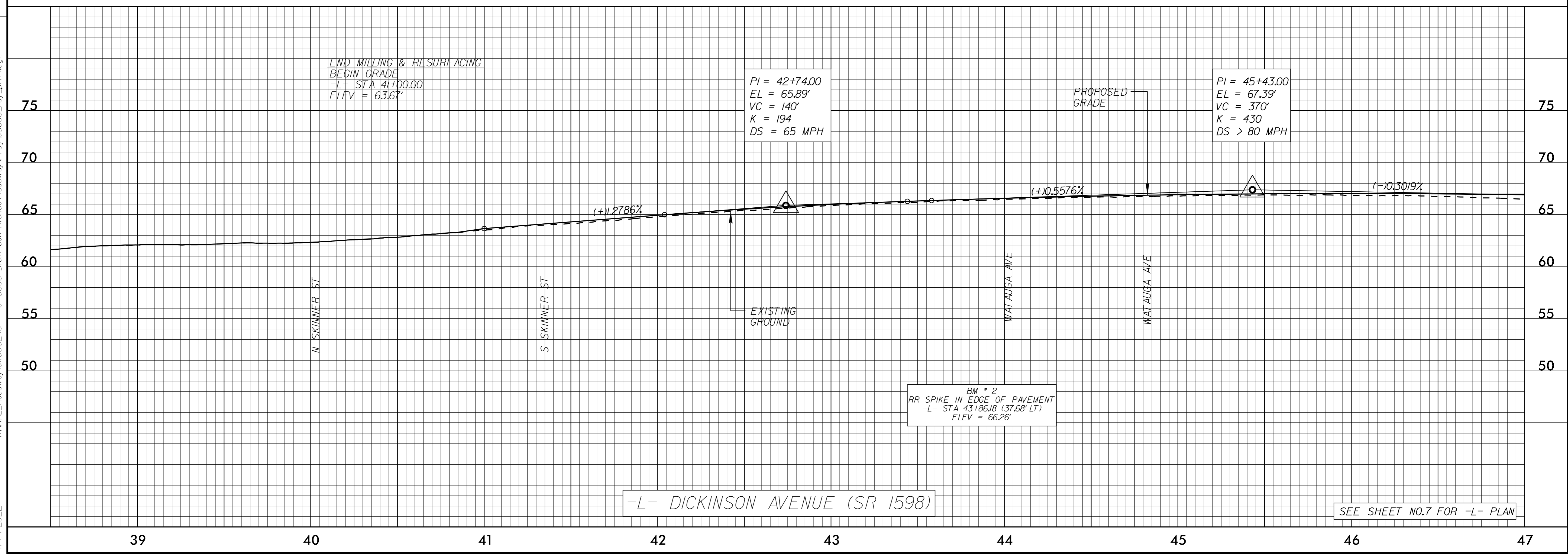
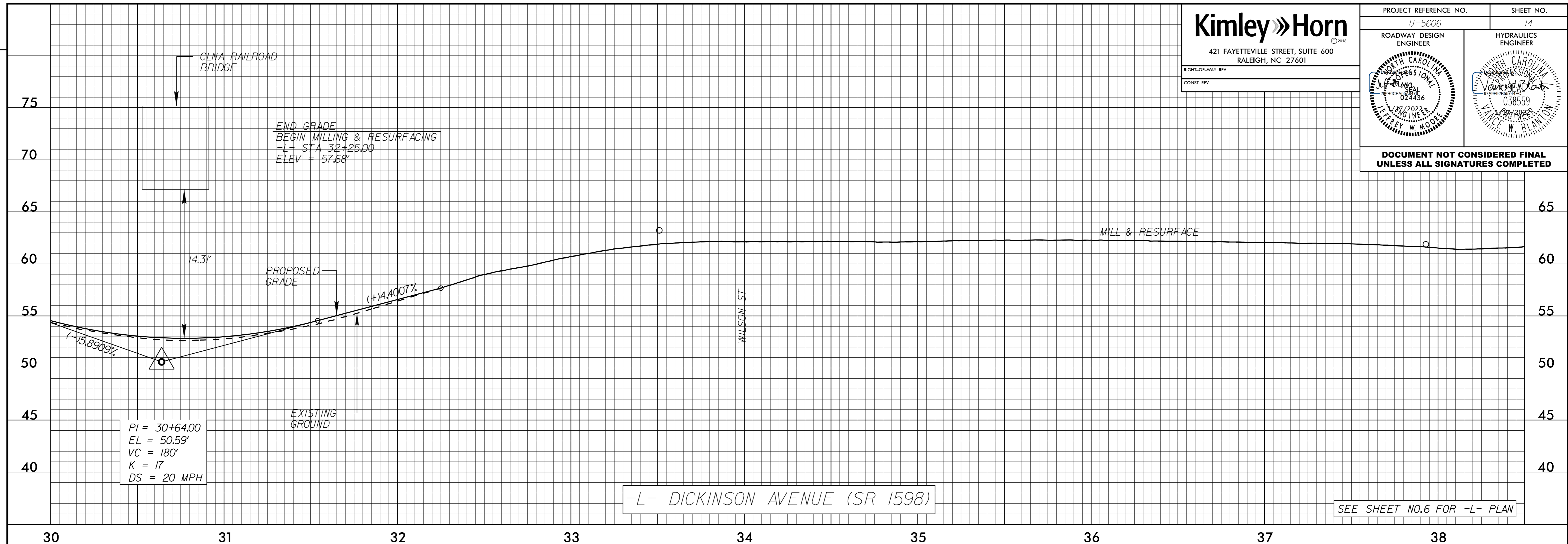


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1/17/2022



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REVISIONS

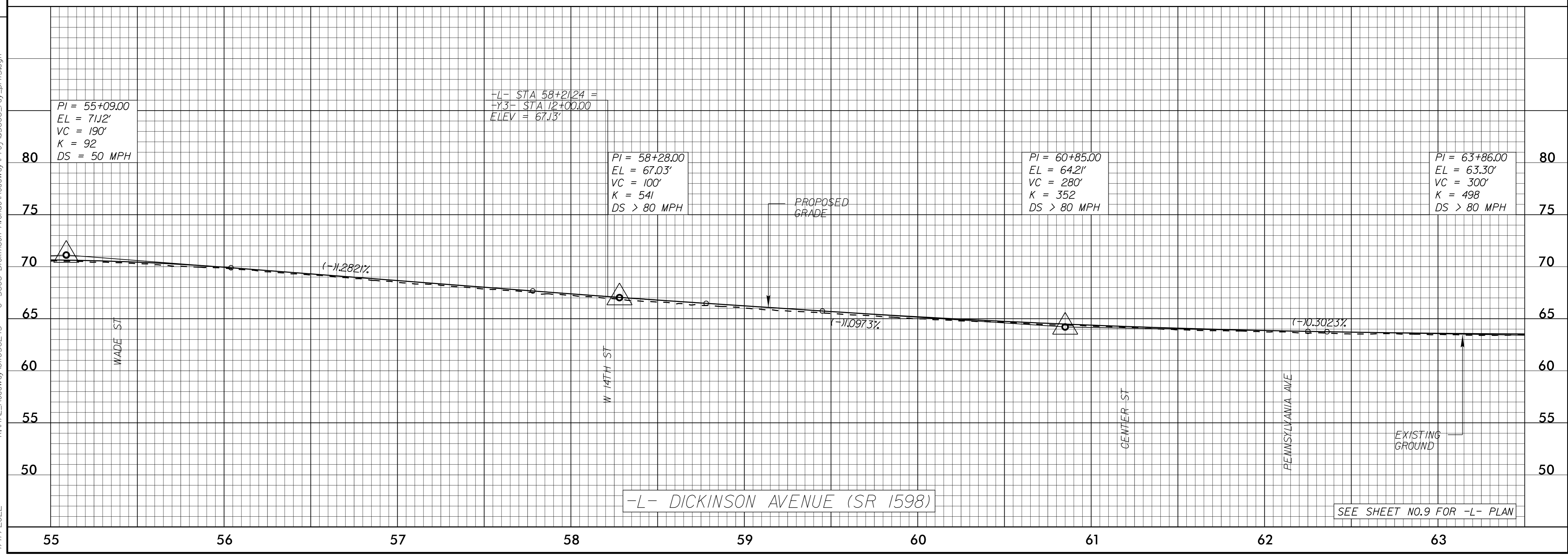
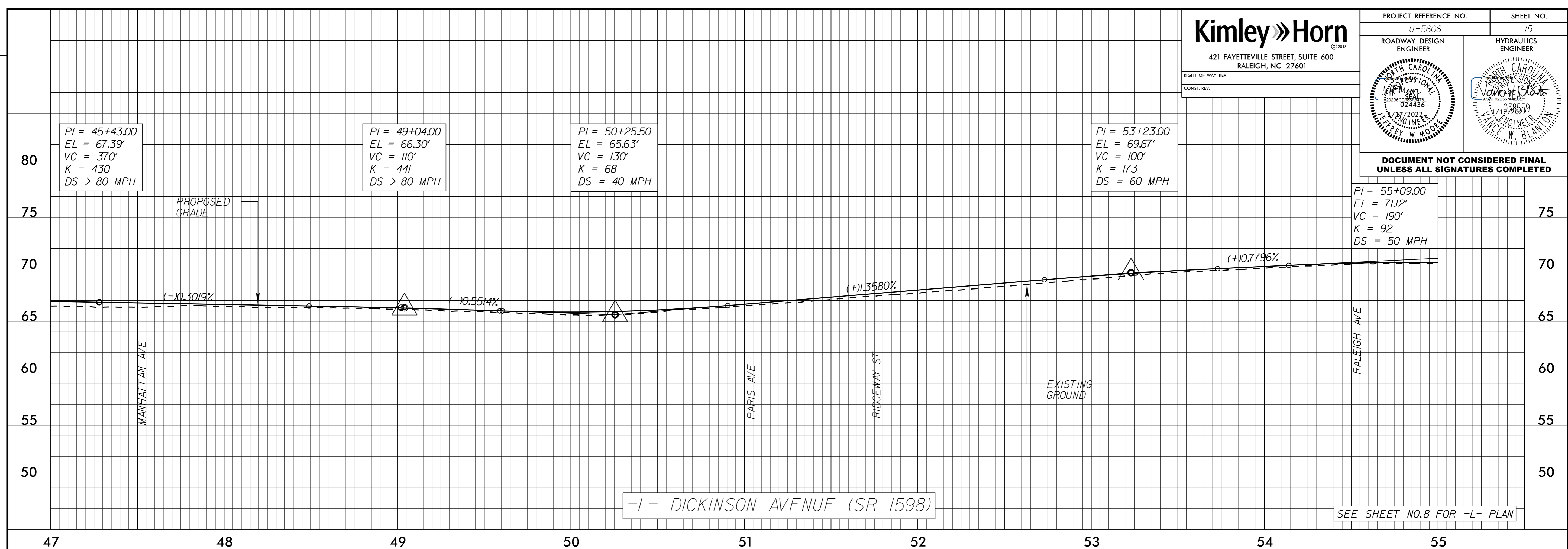


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1/17/2022



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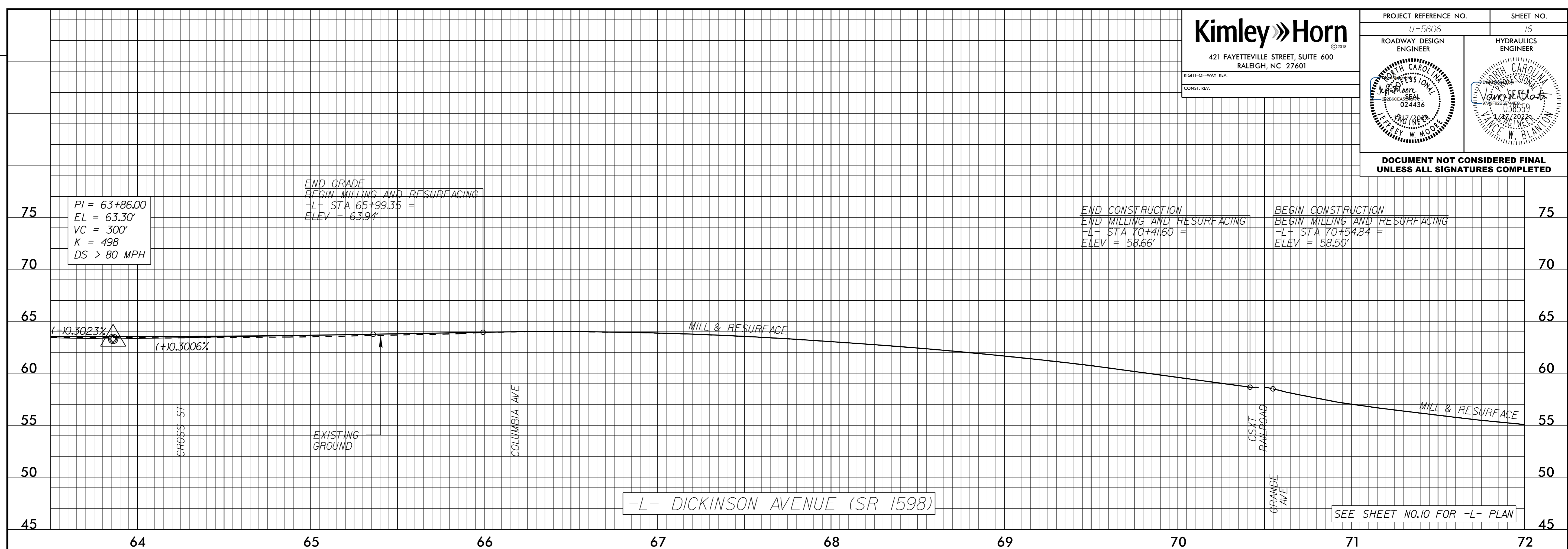


**Kimley»Horn**  
 421 FAYETTEVILLE STREET, SUITE 600  
 RALEIGH, NC 27601

PROJECT REFERENCE NO. U-5606	SHEET NO. 16
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<i>[Signature]</i> JAMES W. MOORE 024436	<i>[Signature]</i> VINCE W. BLANTON 038559

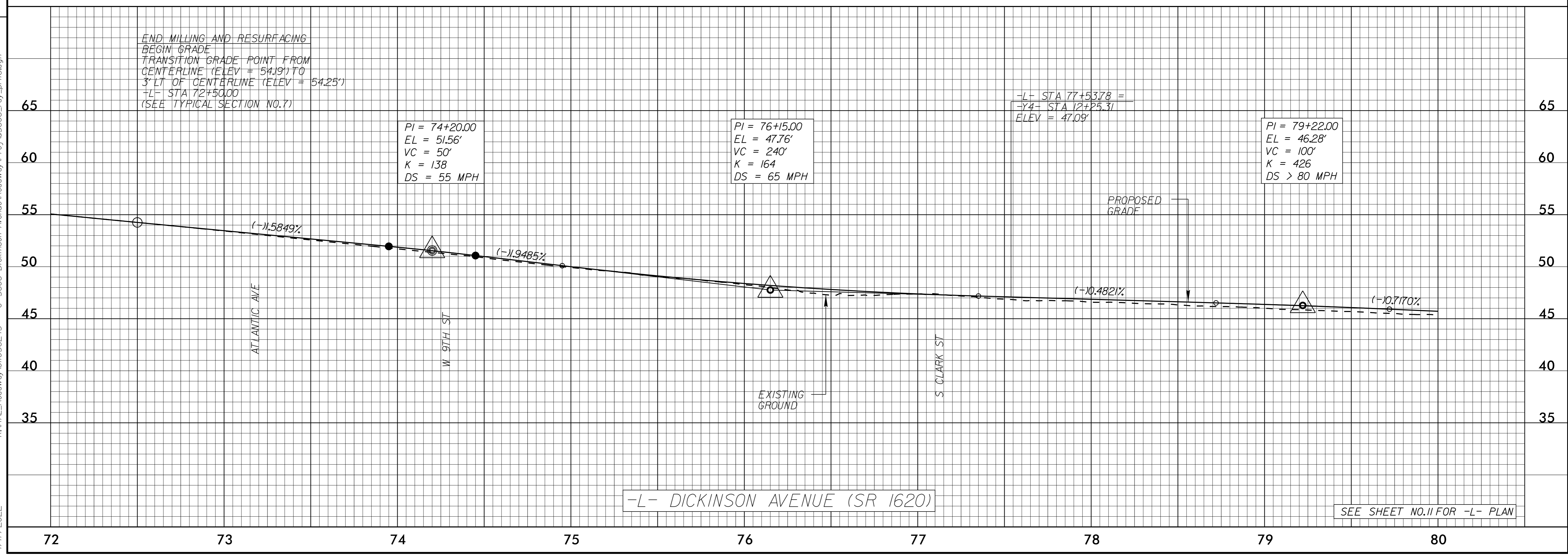
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REVISIONS



-L- DICKINSON AVENUE (SR 1598)

SEE SHEET NO.10 FOR -L- PLAN



-L- DICKINSON AVENUE (SR 1620)

SEE SHEET NO.11 FOR -L- PLAN

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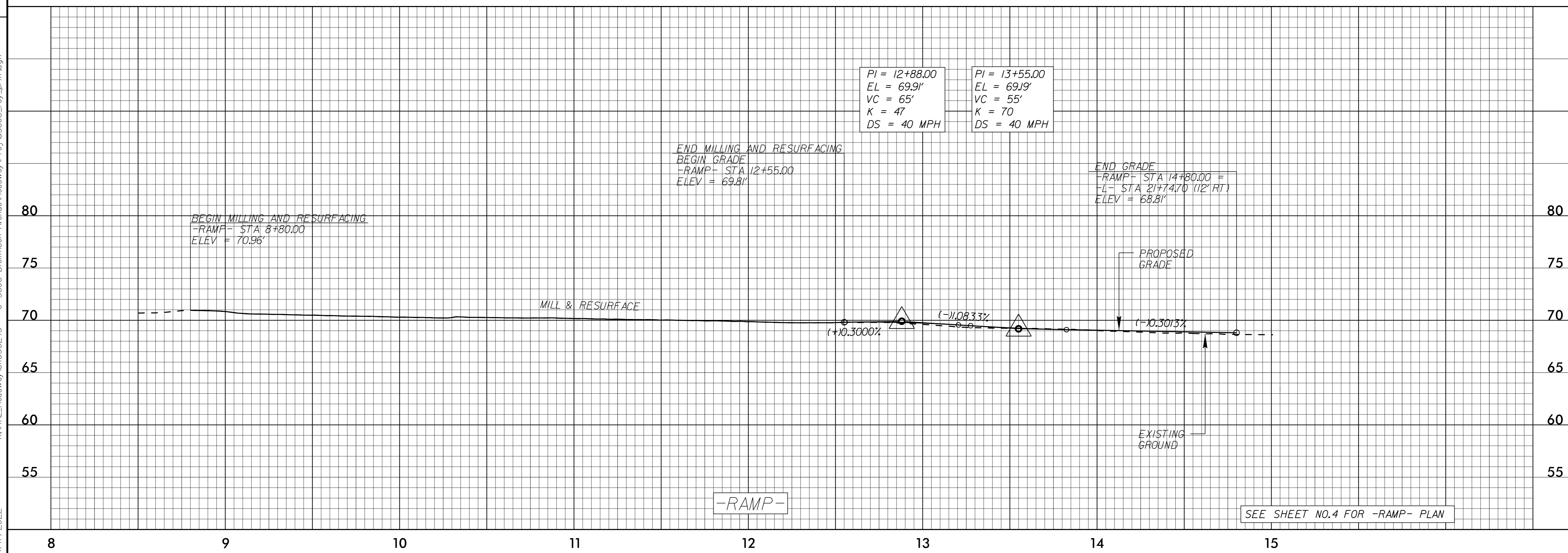
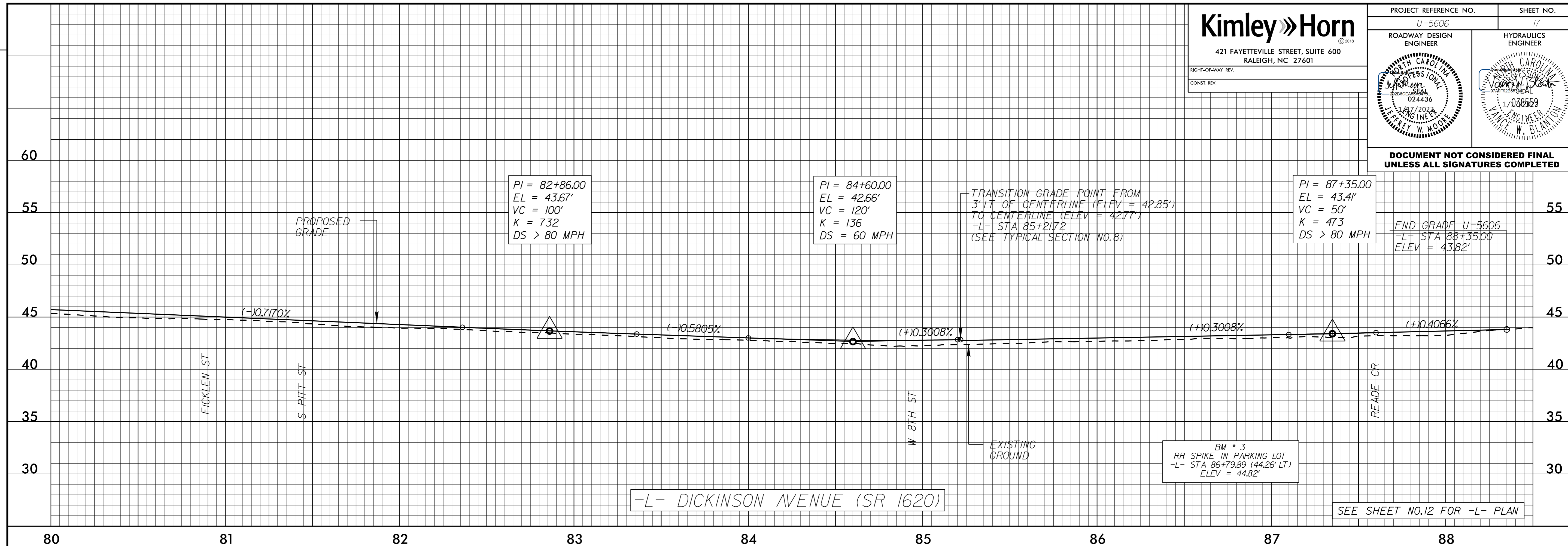


**Kimley Horn**  
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 RALEIGH, NC 27601

PROJECT REFERENCE NO. U-5606	SHEET NO. 17
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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REVISIONS  
 DESIGN REV. - 6/13/18 - REVISED -L- END GRADE STATION DUE TO UNIVERSITY EDGE DEVELOPMENT. - J.W.M.

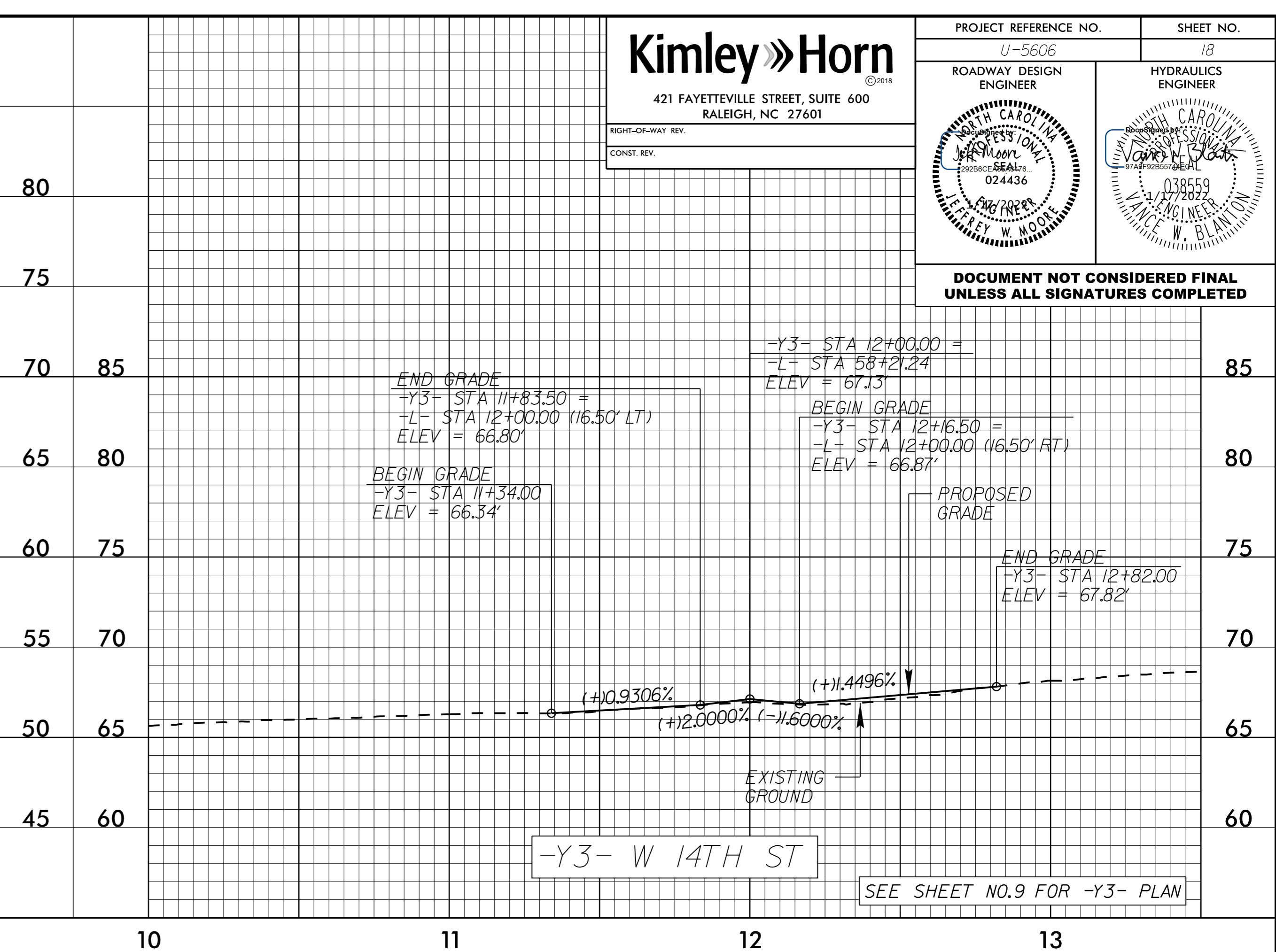
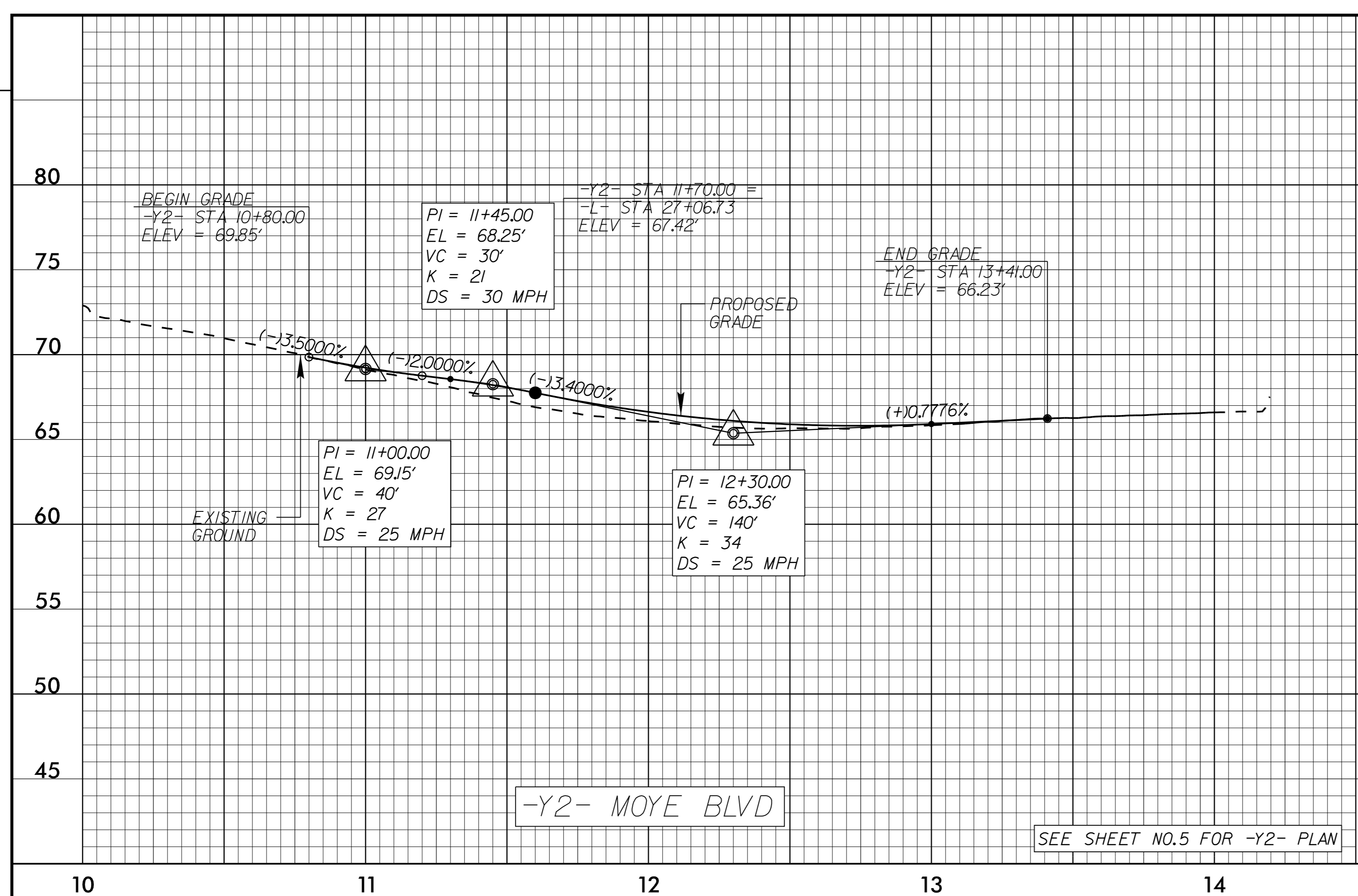


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