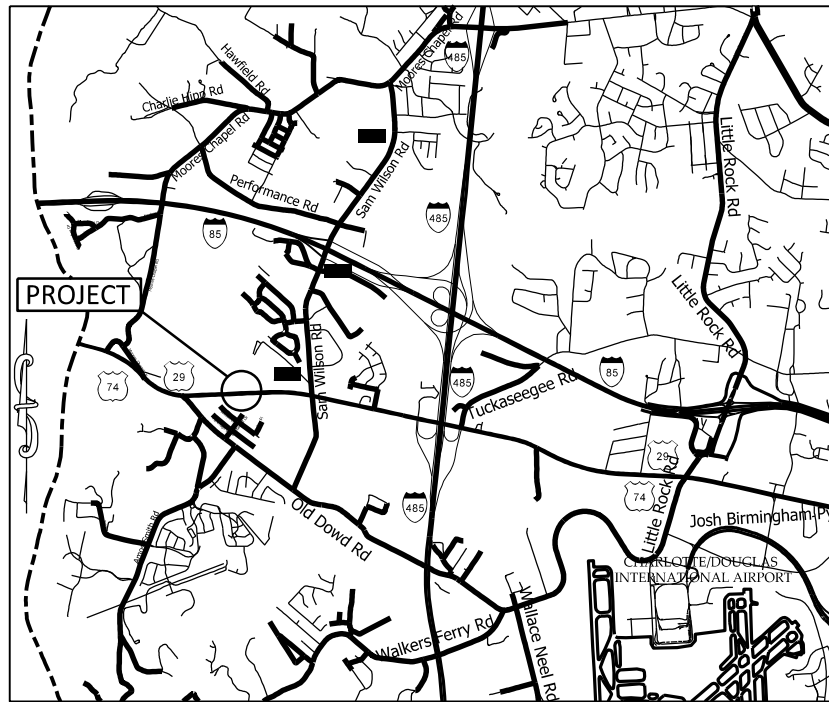


PROJECT: 10.106011.1 TIP: 10.106011.1



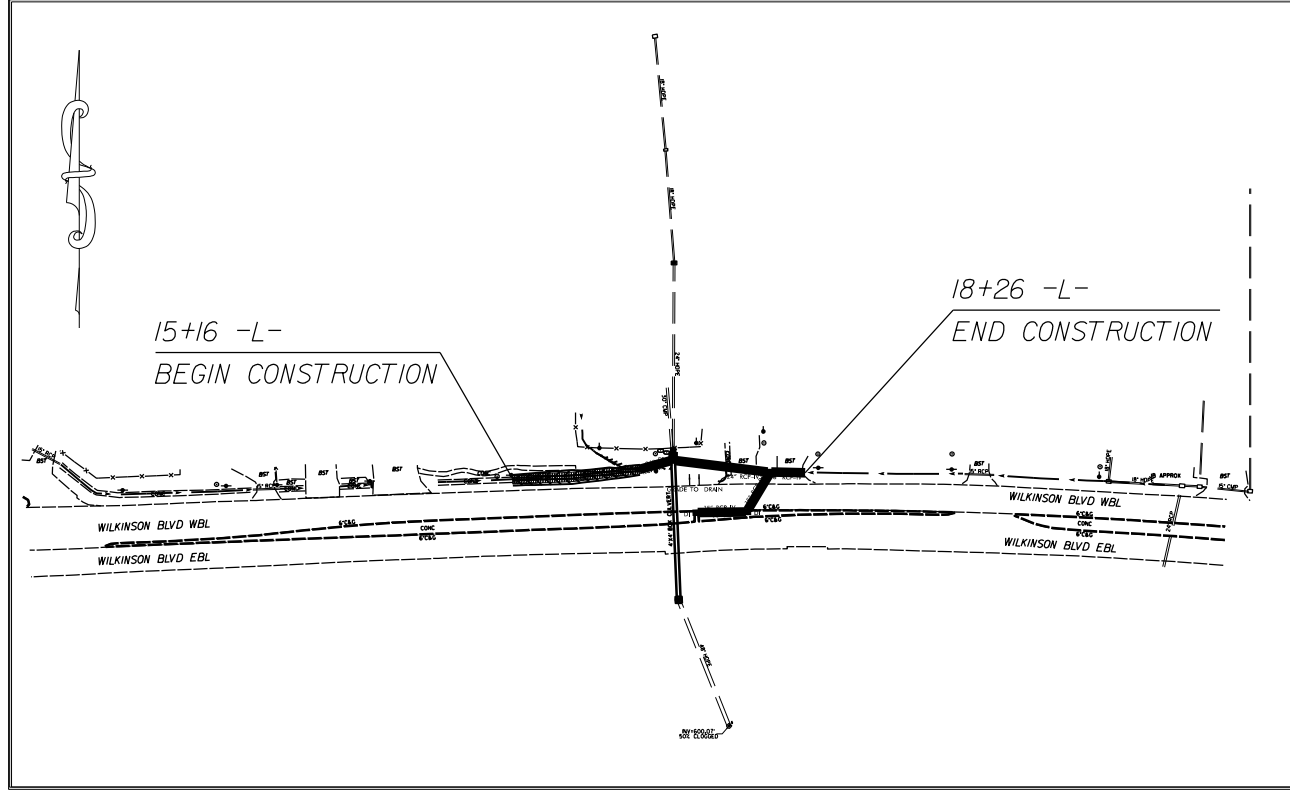
VICINITY MAP NOT TO SCALE

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
MECKLENBURG COUNTY



LOCATION: NORTH SIDE OF WILKINSON BLVD. (US HWY 29/74)
BETWEEN SAM WILSON RD. (SR-1625) AND PARROTT DR.

TYPE OF WORK: GRADING, DRAINAGE, PAVING, CONCRETE ISLANDS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	10.106011.1	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
10.106011.1		P.E.	
10.106011.1		R/W	
10.106011.1		CONST.	



CLEARING ON THIS PROJECT SHALL BE TO THE LIMITS ESTABLISHED BY METHOD III AS DESCRIBED IN THE NCDOT STANDARD DRAWINGS

<p>GRAPHIC SCALES</p> <p>0 20 40 PLANS</p> <p>0 20 40 PROFILE (HORIZONTAL)</p> <p>0 5 10 PROFILE (VERTICAL)</p>	<p>DESIGN DATA</p> <p>ADT =</p> <p>ADT =</p> <p>DHV = %</p> <p>D = %</p> <p>T = %</p> <p>V = MPH</p>	<p>PROJECT LENGTH</p> <p>LENGTH OF ROADWAY PROJECT 10.106011B = 0.06 MILES</p> <p>TOTAL LENGTH OF STATE PROJECT 10.106011B = 0.06 MILES</p>	<p style="text-align: center;">Prepared in the Office of: DIVISION OF HIGHWAYS DIVISION TEN DIVISION DESIGN / CONSTRUCT UNIT</p> <hr/> <p style="text-align: center;">2018 STANDARD SPECIFICATIONS</p> <p>RIGHT OF WAY DATE: DECEMBER 15, 2022</p> <p>LETTING DATE: AUGUST 21, 2024</p>	<div style="text-align: center;">  </div>	<p style="text-align: center;">ROADWAY DESIGN ENGINEER 07/24/2024</p> <div style="text-align: center;">  </div> <p style="text-align: center;">DocuSigned by: <i>Travis Preslar</i></p>
--	---	--	--	--	--

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:

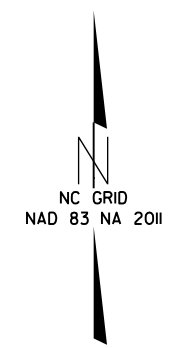
Sanitary Sewer Manhole	-----
Sanitary Sewer Cleanout	-----
U/G Sanitary Sewer Line	-----
Above Ground Sanitary Sewer	-----
SS Force Main Line Test Hole (SUE - LOS A)*	-----
SS Force Main Line (SUE - LOS B)*	-----
SS Force Main Line (SUE - LOS C)*	-----
SS Force Main Line (SUE - LOS D)*	-----

MISCELLANEOUS:

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	-----

SURVEY CONTROL SHEET

PROJECT NO.	SHEET NO.
10J06011J	1B
F.A. PROJECT NO.	



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS-1"

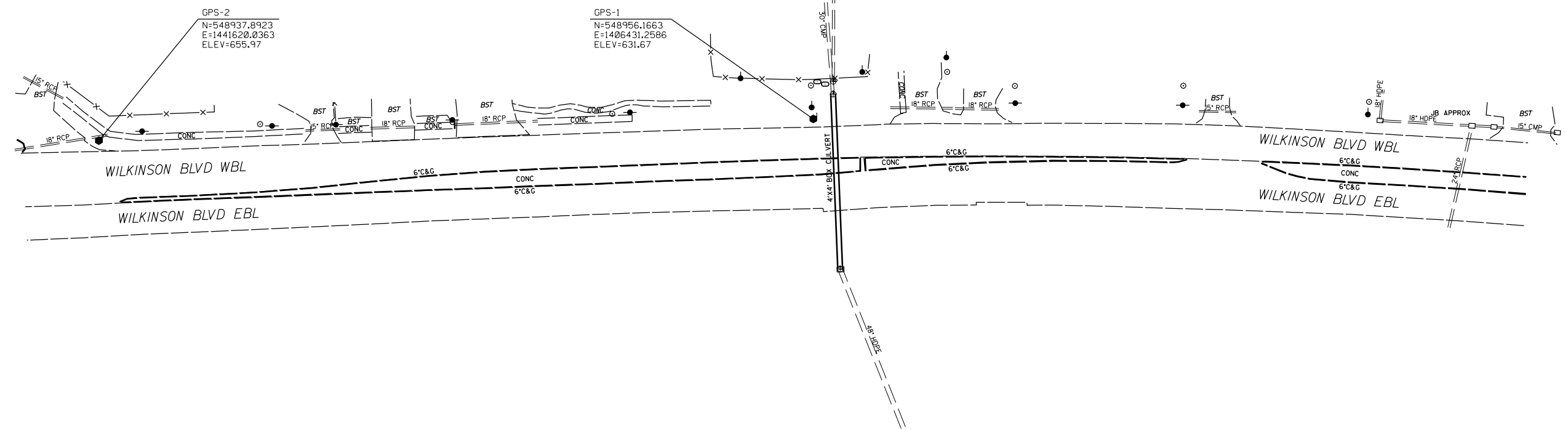
WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF
 NORTHING: 548956.1663(fft) EASTING: 1406431.2586(fft)
 ELEVATION: 631.67(fft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99987261

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS-1" TO "L- STATION 10+00 IS
 S 84° 23' 05" W 922.03'

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88

BL	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
2			548937.8923	1405826.3495	655.97	10+65.31	44.97 LT
1			548956.1663	1406431.2586	631.67	16+70.02	40.31 LT



NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED BY THE DIVISION 10 DDC UNIT. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE DIVISION 10 DDC UNIT.

**WILKINSON BLVD.
DRAINAGE PROJECT**

SCALE	1"=50'	REVISIONS
DATE	9-2022	
DWG. BY	JCB	
DESIGN BY	SRH	
APPROVED	JDH	

RIGHT OF WAY, EASEMENT AND PROPOSED ALIGNMENT SHEET

PROJECT NO.	SHEET NO.
10J0601J	1B
F.A. PROJECT NO.	

TYPE	STATION	NORTH	EAST
POT	10+00.00	548890.4463	1405762.8168
PC	16+04.65	548913.7225	1406367.0146
PT	22+72.66	548900.9833	1407034.5354

PERMANENT DRAINAGE EASEMENT				
ALIGN	STATION	OFFSET	NORTH	EAST
L	16+35.00	-50.00	548964.7840	1406395.6857
L	16+35.00	-60.00	548974.7785	1406395.3531
L	16+72.00	-60.00	548975.9028	1406432.7188
L	16+72.00	-85.00	549000.8938	1406432.0466
L	17+02.00	-50.00	548966.6419	1406463.2374
L	17+02.00	-85.00	549001.6336	1406462.4772

I, Barry D. Davis, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item, R/W and Easement Staking, was performed under my responsible charge meeting NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures as of 2017. Those standards can be found at <https://connect.ncdot.gov/resources/Location/Pages/>.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from survey control established under my supervision; that the depicted property data shown herein were surveyed under my supervision; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (see deeds for final determination).

Witness my signature, registration number and seal this 27th day of 2022 2022

Barry D. Davis, _____ DocuSigned by: _____ PLS* L-4384
Professional Land Surveyor

Barry Davis

0E2AAE4F48174DC...



NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED BY THE DIVISION IO DDC UNIT. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE DIVISION IO DDC UNIT.

WILKINSON BLVD.
DRAINAGE PROJECT

SCALE	N/A		REVISIONS	
DATE	9-2022			
DWG. BY	JCB			
DESIGN BY	SRH			
APPROVED	JDH			

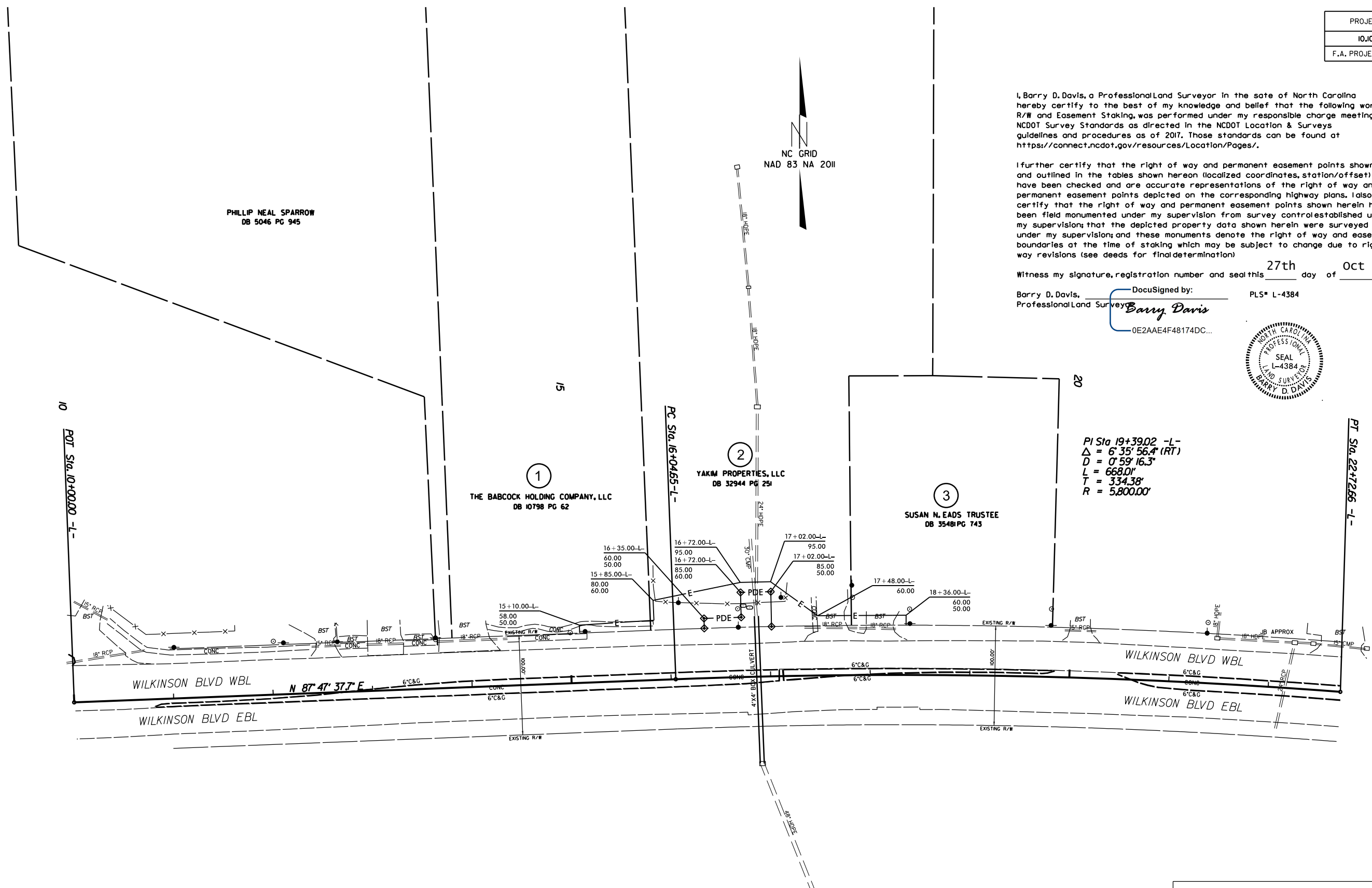
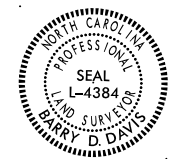
PROJECT NO.	SHEET NO.
10J06011J	IC
F.A. PROJECT NO.	

I, Barry D. Davis, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item, R/W and Easement Staking, was performed under my responsible charge meeting NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures as of 2017. Those standards can be found at <https://connect.ncdot.gov/resources/Location/Pages/>.

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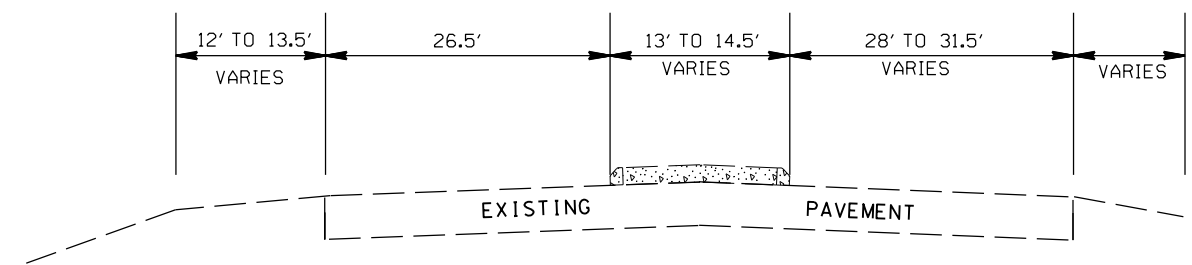
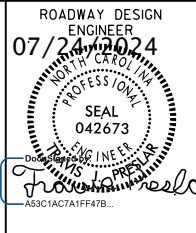
Witness my signature, registration number and seal this 27th day of Oct 2022

DocuSigned by:
Barry D. Davis, Professional Land Surveyor
PLS# L-4384
0E2AAE4F48174DC...

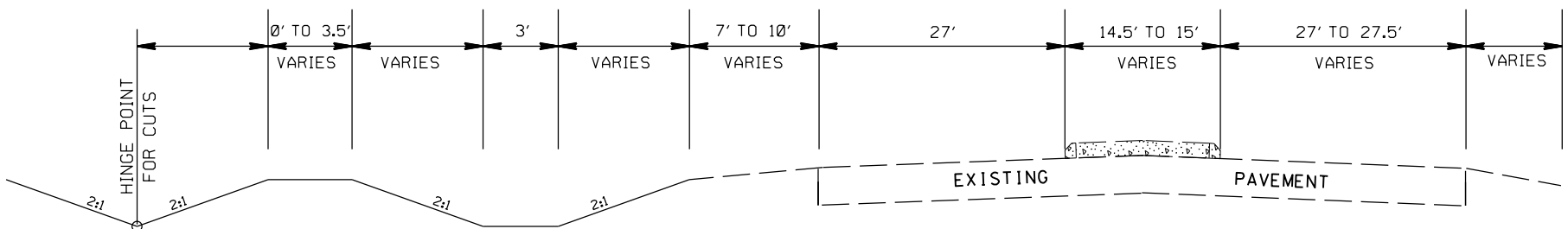


WILKINSON BLVD.
DRAINAGE PROJECT

SCALE	1"=50'		REVISIONS
DATE	9-2022		
DWG. BY	JCB		
DESIGN BY	SRH		
APPROVED	JDH		



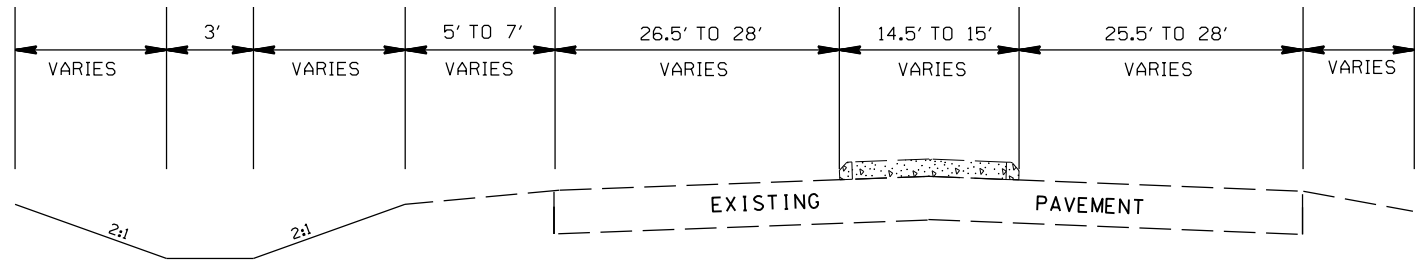
TYPICAL SECTION NO. 3
STA. 16+51.97 TO 16+85.00 -L-



TYPICAL SECTION NO. 2
STA. 16+06.46 TO 16+36.79 -L-

PAVEMENT SCHEDULE

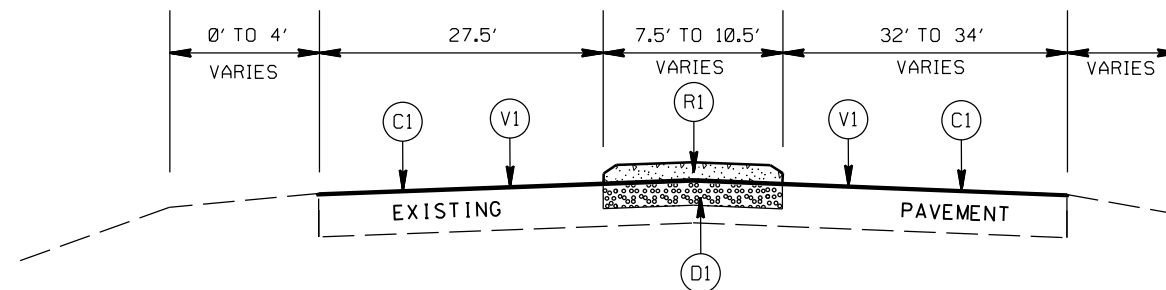
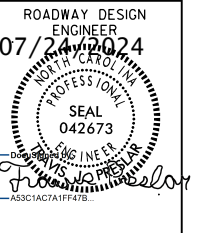
(C1)	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(D1)	PROP. APPROX. 9" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD., IN EACH OF THREE LAYERS
(R1)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(V1)	MILLING ASPHALT PAVEMENT, 1.5" IN DEPTH



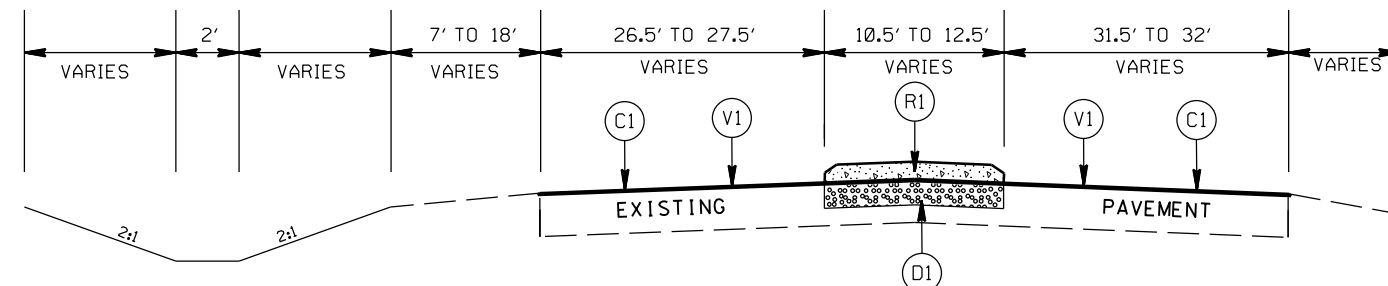
TYPICAL SECTION NO. 1
STA. 15+16.90 TO 16+06.46 -L-
STA. 16+36.79 TO 16+51.97 -L-

WILKINSON BLVD.
DRAINAGE PROJECT

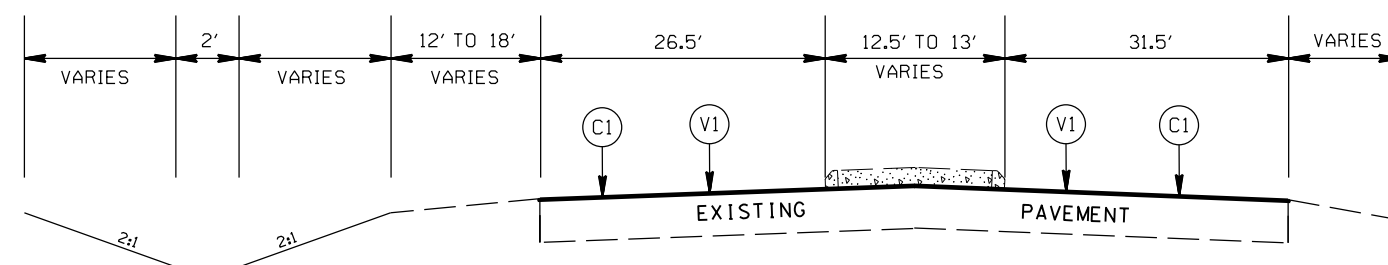
SCALE	N/A		REVISIONS
DATE	10-2022		
DWG. BY	CEB		
DESIGN BY	JDH		
APPROVED	JDH		



TYPICAL SECTION NO. 6
STA. 17+34.75 TO 17+78.00 -L-



TYPICAL SECTION NO. 5
STA. 16+98.00 TO 17+34.75 -L-



TYPICAL SECTION NO. 4
STA. 16+85.00 TO 16+98.00 -L-
STA. 17+78.00 TO 17+90.00 -L-

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(D1)	PROP. APPROX. 9" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD., IN EACH OF THREE LAYERS
(R1)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
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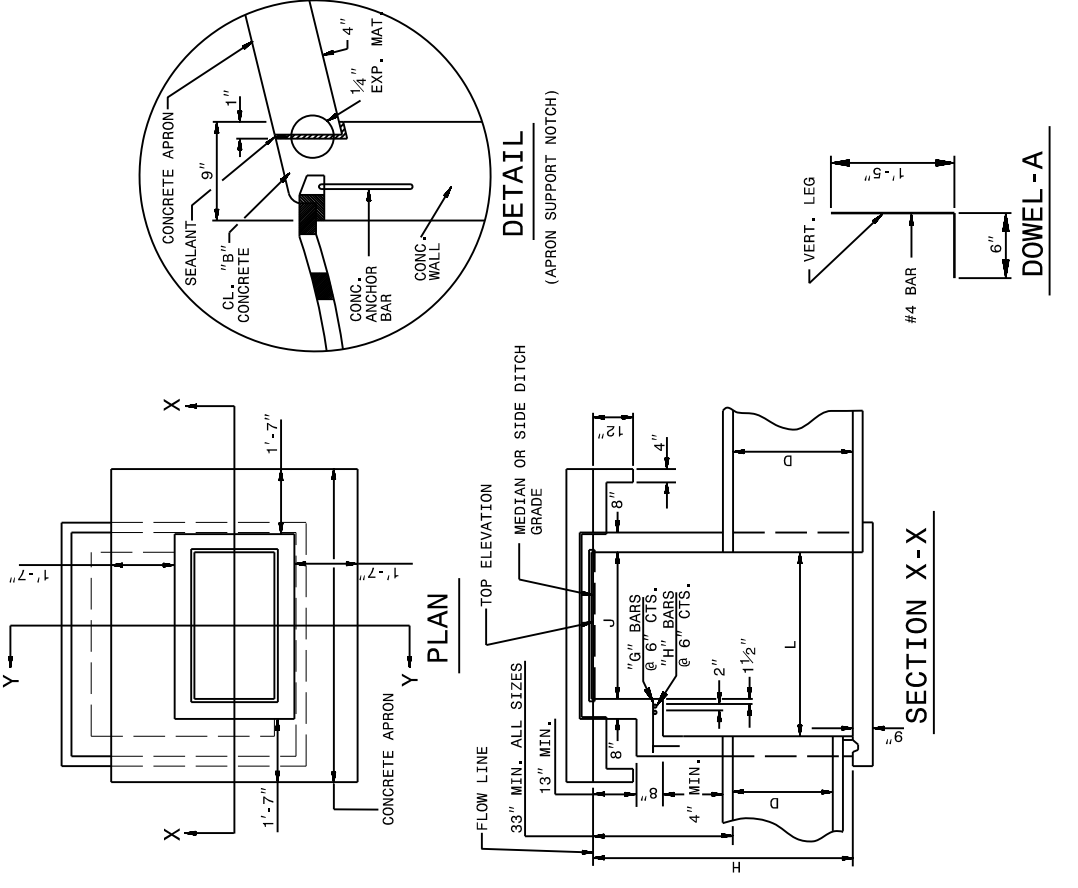
WILKINSON BLVD.
DRAINAGE PROJECT

SCALE	N/A		REVISIONS
DATE	10-2022		
DWG. BY	CEB		
DESIGN BY	JDH		
APPROVED	JDH		

20-DEC-2022 5:16
S:\DCC\BY\Standards Drawings\840d17 Extra Depth 2G1.dgn
\$\$\$\$USERNAME\$\$\$\$

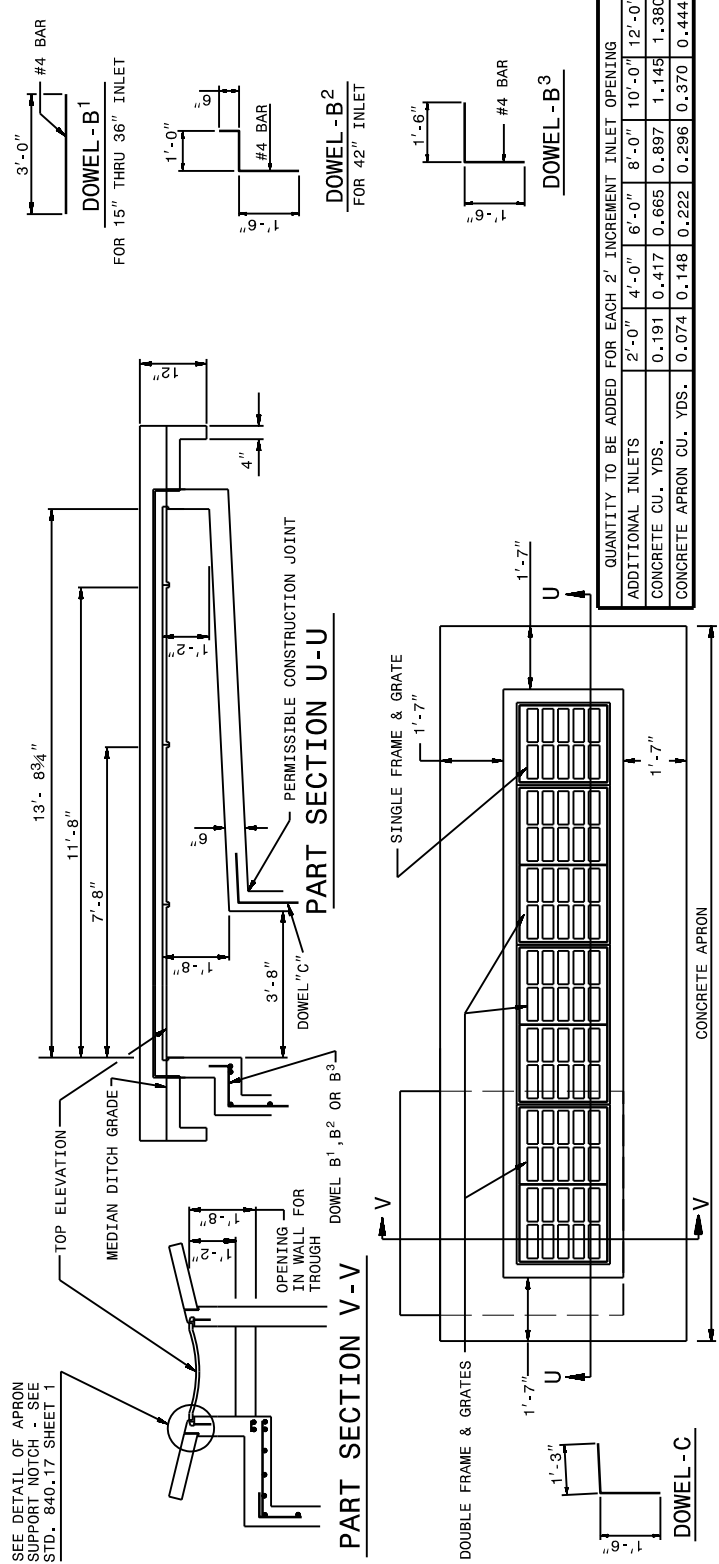
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.
ENGLISH DETAIL DRAWING FOR
CONCRETE MEDIAN DROP INLET TYPE 'A'
EXTRA DEPTH OVER 12' TO 25'
12" THRU 72" PIPE
SHEET 1 OF 2
840D17

GENERAL NOTES:
USE CLASS "B" CONCRETE THROUGHOUT.
PROVIDE DROP INLETS 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.
WHEN PAYMENT FOR THE DROP INLET IS MADE ON A PER EACH BASIS, THE CONCRETE APRON WILL BE CONSIDERED PART OF THE DROP INLET.
CONSTRUCT WITH PIPE CROWNS MATCHING.
USE STANDARD FRAMES AND GRATES 840.25 (SHOWN), 840.24(SHOWN), 840.20, 840.23, AND 840.33.
SEE STANDARD DRAWING 840.25 FOR ATTACHMENT OF FRAMES AND GRATES NOT SHOWN.
CHAMFER ALL EXPOSED CORNERS 1".
DRAWING NOT TO SCALE.
MAX. DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 25 FEET.



STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.
ENGLISH DETAIL DRAWING FOR
CONCRETE MEDIAN DROP INLET TYPE 'A'
EXTRA DEPTH OVER 12' TO 25'
12" THRU 72" PIPE
SHEET 1 OF 2
840D17

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.
ENGLISH DETAIL DRAWING FOR
CONCRETE MEDIAN DROP INLET TYPE 'A'
EXTRA DEPTH OVER 12' TO 25'
12" THRU 72" PIPE
SHEET 2 OF 2
840D17



STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.
ENGLISH DETAIL DRAWING FOR
CONCRETE MEDIAN DROP INLET TYPE 'A'
EXTRA DEPTH OVER 12' TO 25'
12" THRU 72" PIPE
SHEET 2 OF 2
840D17

QUANTITY TO BE ADDED FOR EACH 2' INCREMENT INLET OPENING

ADDITIONAL INLETS	2'-0"	4'-0"	6'-0"	8'-0"	10'-0"	12'-0"
CONCRETE CU. YDS.	0.191	0.417	0.665	0.897	1.145	1.380
CONCRETE APRON CU. YDS.	0.074	0.148	0.222	0.296	0.370	0.444

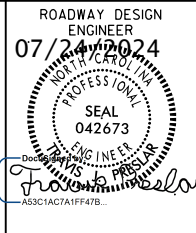
DIMENSIONS OF BOX AND PIPE	REINFORCING STEEL - NO. 4 BARS								CU YDS CONC. IN BOX			DEDUCTIONS					
	PIPE SPAN	WIDTH	SPAN	WIDTH	HEIGHT	BARS E	BARS F	BARS G	BARS H	TOTAL	BOTTOM SLAB	H PER FT	H PER APRON	TOTAL	ONE PIPE		
D	J	K	L	M	H	NO. LENGTH	NO. LENGTH	NO. LENGTH	NO. LENGTH	NO. LENGTH	NO. LENGTH	NO. LENGTH	NO. LENGTH	NO. LENGTH	NO. LENGTH	NO. LENGTH	
12"	3'-8"	2'-0"	3'-8"	2'-0"	3'-9"	—	—	—	—	—	0.362	0.926	0.247	0.395	1.683	0.015	0.024
15"	3'-8"	2'-0"	3'-8"	2'-0"	4'-0"	—	—	—	—	—	0.362	0.988	0.247	0.395	1.745	0.023	0.036
18"	3'-8"	2'-0"	3'-8"	2'-0"	4'-3"	—	—	—	—	—	0.362	1.050	0.247	0.395	1.807	0.033	0.049
24"	3'-8"	2'-0"	3'-8"	2'-0"	4'-9"	8	1'-5"	6	4'-9"	—	27	0.444	1.362	0.278	2.201	0.039	0.085
30"	3'-8"	2'-0"	3'-8"	2'-0"	5'-3"	8	2'-0"	7	4'-9"	—	33	0.502	1.644	0.288	2.541	0.092	0.127
36"	3'-8"	2'-0"	3'-8"	2'-0"	5'-9"	8	2'-5"	8	4'-11"	2	47	0.560	1.931	0.321	2.920	0.132	0.178
42"	3'-8"	2'-0"	3'-8"	2'-0"	6'-3"	10	3'-1"	9	5'-7"	3	67	0.704	2.500	0.370	3.677	0.180	0.243
48"	3'-8"	2'-0"	3'-8"	2'-0"	6'-9"	11	3'-7"	10	6'-1"	4	87	0.823	3.013	0.407	4.315	0.235	0.317
54"	3'-8"	2'-0"	3'-8"	2'-0"	7'-3"	12	4'-1"	11	6'-7"	5	107	0.951	3.589	0.444	5.072	0.297	0.401
60"	3'-8"	2'-0"	3'-8"	2'-0"	7'-9"	13	4'-9"	12	7'-3"	6	135	1.111	4.169	0.494	6.170	0.367	0.495
66"	3'-8"	2'-0"	3'-8"	2'-0"	8'-3"	14	5'-4"	14	7'-10"	7	168	1.336	5.061	0.537	7.503	0.444	0.599
72"	3'-8"	2'-0"	3'-8"	2'-0"	8'-9"	15	5'-11"	15	8'-5"	8	199	1.500	5.860	0.580	8.440	0.528	0.713



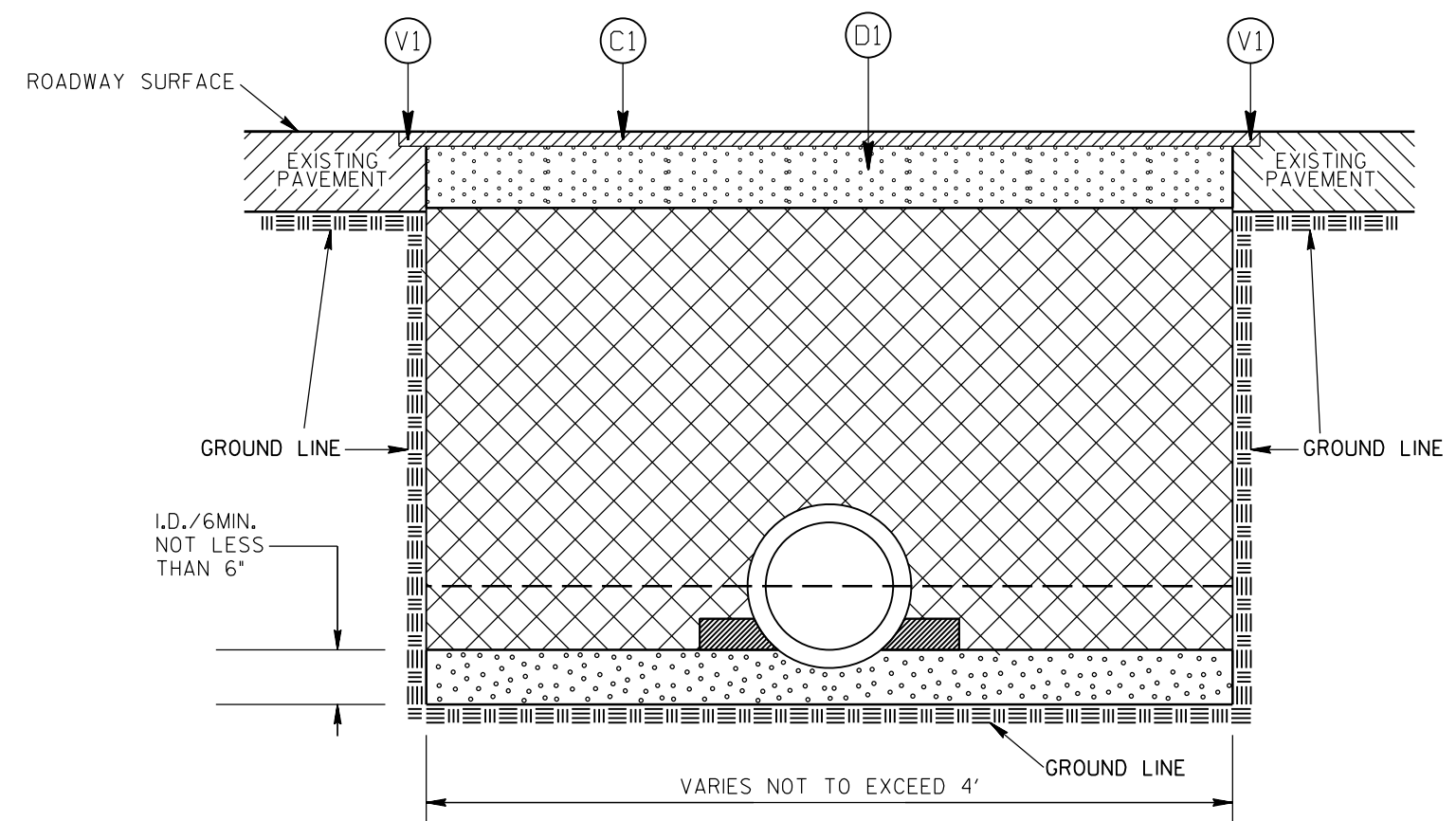
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CONTRACT STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119
SEE PLATE FOR TITLE

ORIGINAL BY: 2002 STD.840.1 DATE:
MODIFIED BY: K.A. KEMPF DATE: 07-06-09
CHECKED BY: DATE:
FILE SPEC.: /stand/840d17 Extra Depth 2G1.dgn



PIPE INSTALLATION



NORMAL EARTH FOUNDATION

GENERAL NOTES:

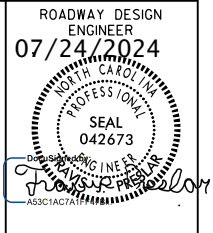
- SPRINGLINE OF PIPE
- TAKE CARE TO FULLY COMPACT HAUNCH ZONE OF PIPE BACKFILL
- LOOSELY PLACED SELECT MATERIAL CLASS III OR CLASS II, TYPE I FOR PIPE BEDDING. LEAVE SECTION DIRECTLY BENEATH PIPE UNCOMPACTED AS PIPE SEATING AND BACKFILL WILL ACCOMPLISH COMPACTION.
- SELECT GRANULAR MATERIAL CLASS II, TYPE I.
- UNDISTURBED EARTH MATERIAL

PAVEMENT SCHEDULE

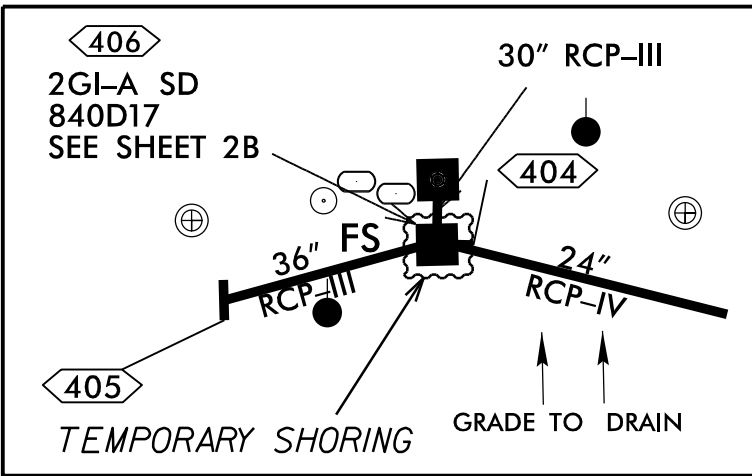
(C1)	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(D1)	PROP. APPROX. 9" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD., IN EACH OF THREE LAYERS
(R1)	PROP. 5" MONOLITHIC CONC. ISLAND (SURFACE MOUNTED)
(V1)	MILLING ASPHALT PAVEMENT, 1.5" IN DEPTH

WILKINSON BLVD.
DRAINAGE PROJECT

SCALE	N/A		REVISIONS
DATE	10-2022		
DWG. BY	JCB		
DESIGN BY	JDH		
APPROVED	JDH		



PI Sta 19+39.02 -L-
 $\Delta = 6^\circ 35' 56.4''$ (RT)
 $D = 0^\circ 59' 16.3''$
 $L = 668.01'$
 $T = 334.38'$
 $R = 5,800.00'$



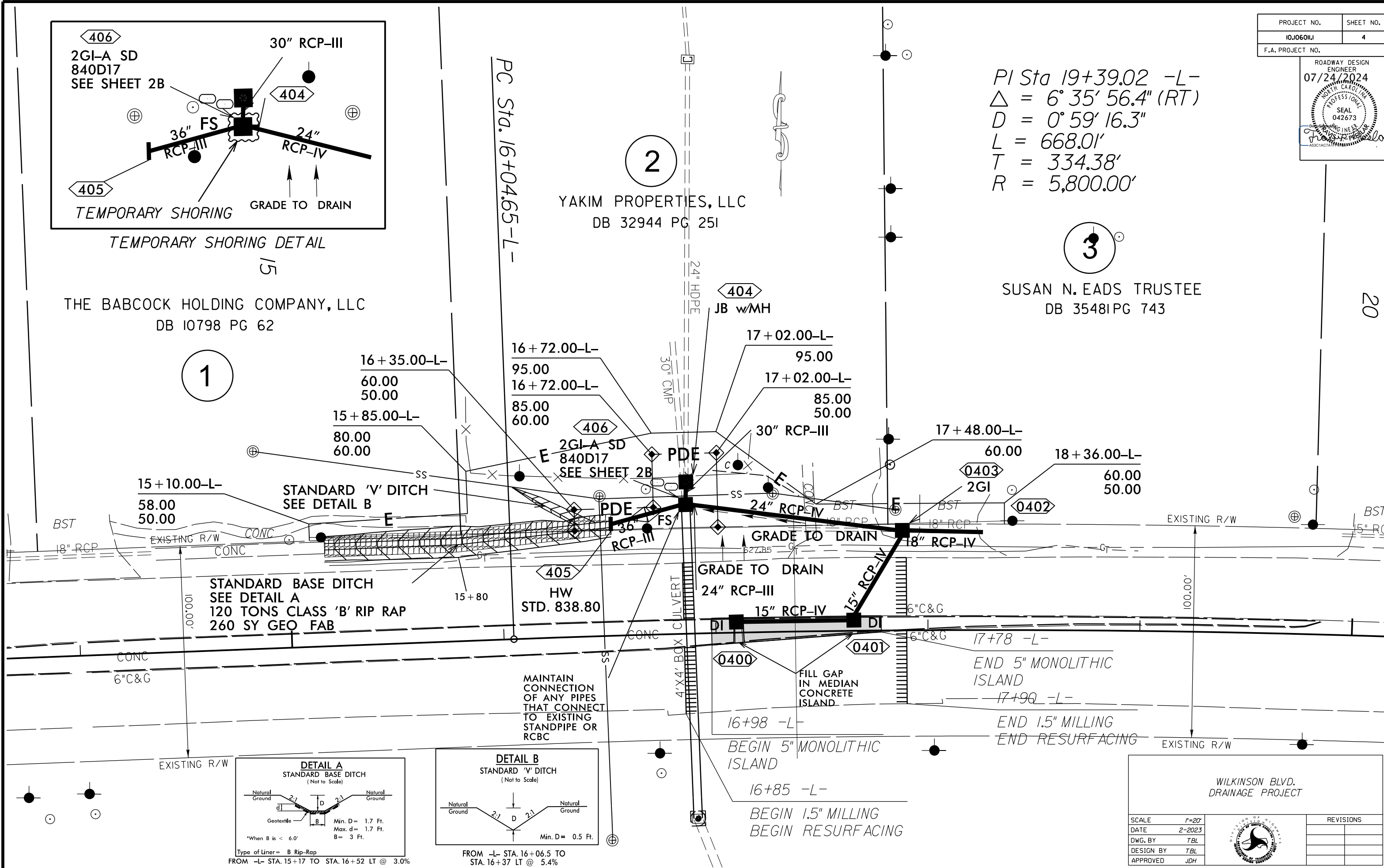
TEMPORARY SHORING DETAIL

15

THE BABCOCK HOLDING COMPANY, LLC
 DB 10798 PG 62

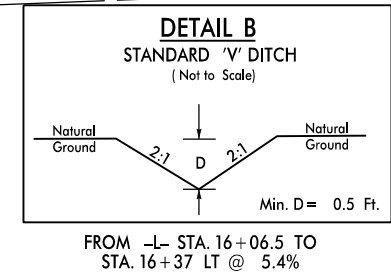
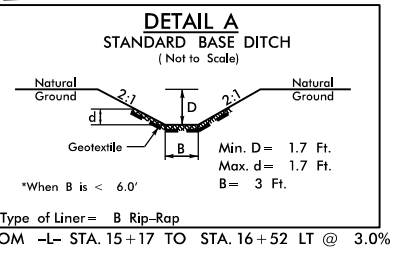
YAKIM PROPERTIES, LLC
 DB 32944 PG 251

SUSAN N. EADS TRUSTEE
 DB 35481 PG 743



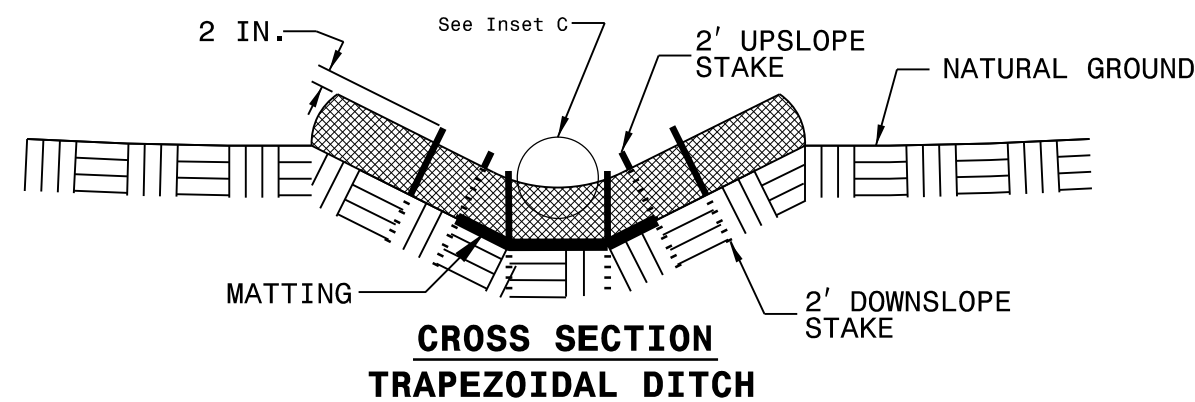
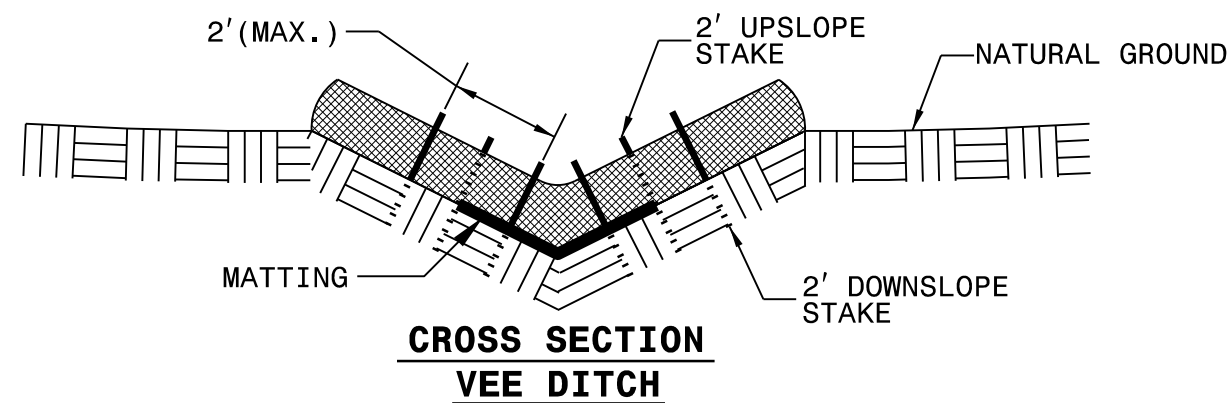
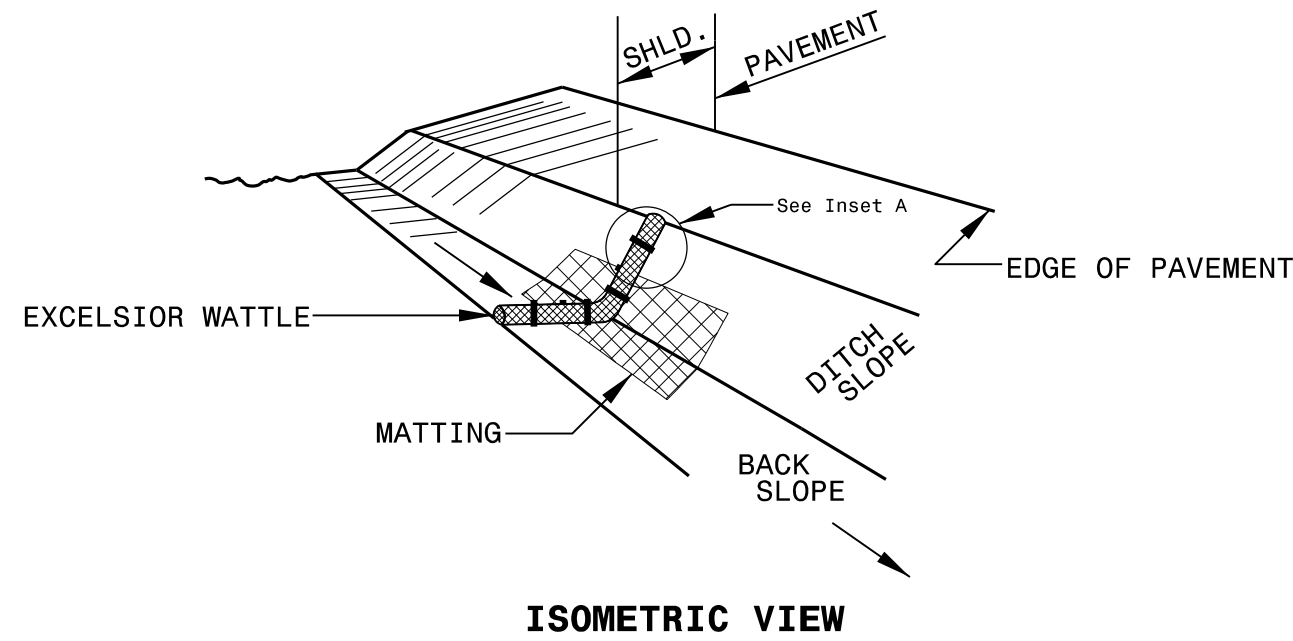
1

3



WILKINSON BLVD. DRAINAGE PROJECT			REVISIONS
SCALE	1"=20'		
DATE	2-2023		
DWG. BY	TBL		
DESIGN BY	TBL		
APPROVED	JDH		

WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

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

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

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

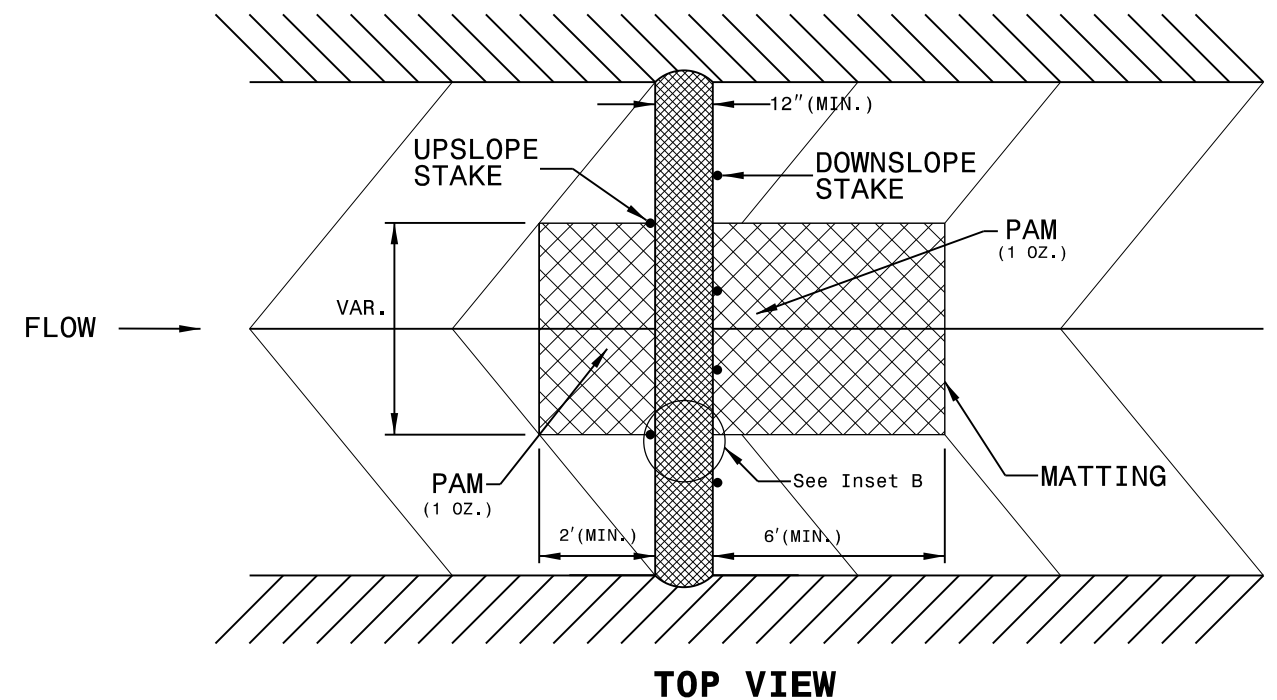
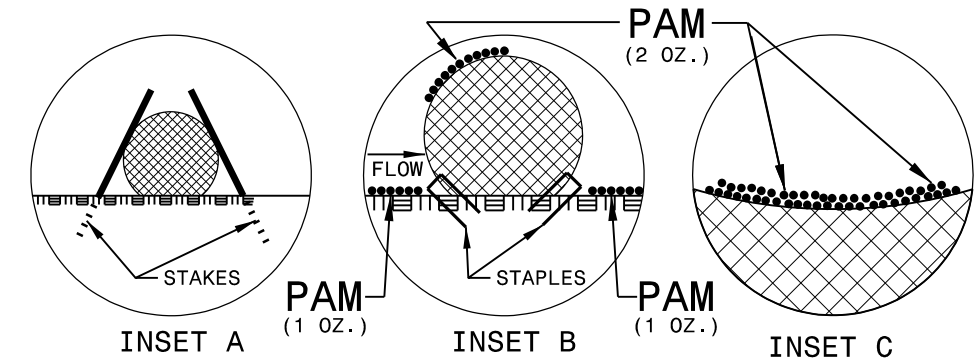
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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

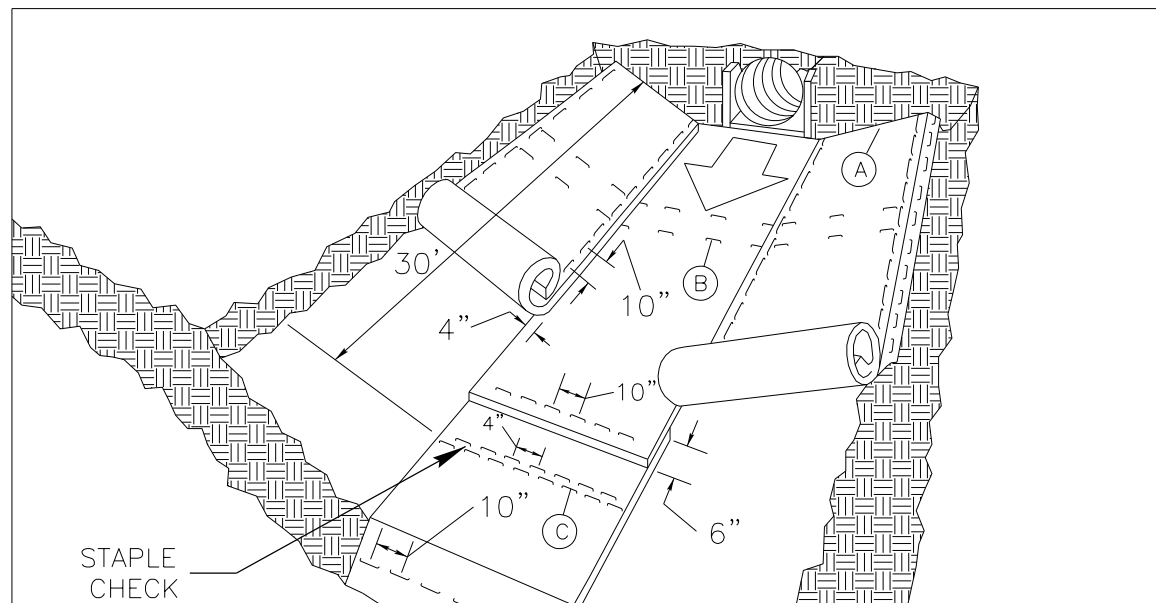
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

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

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



MATTING INSTALLATION DETAIL



MATTING IN DITCHES

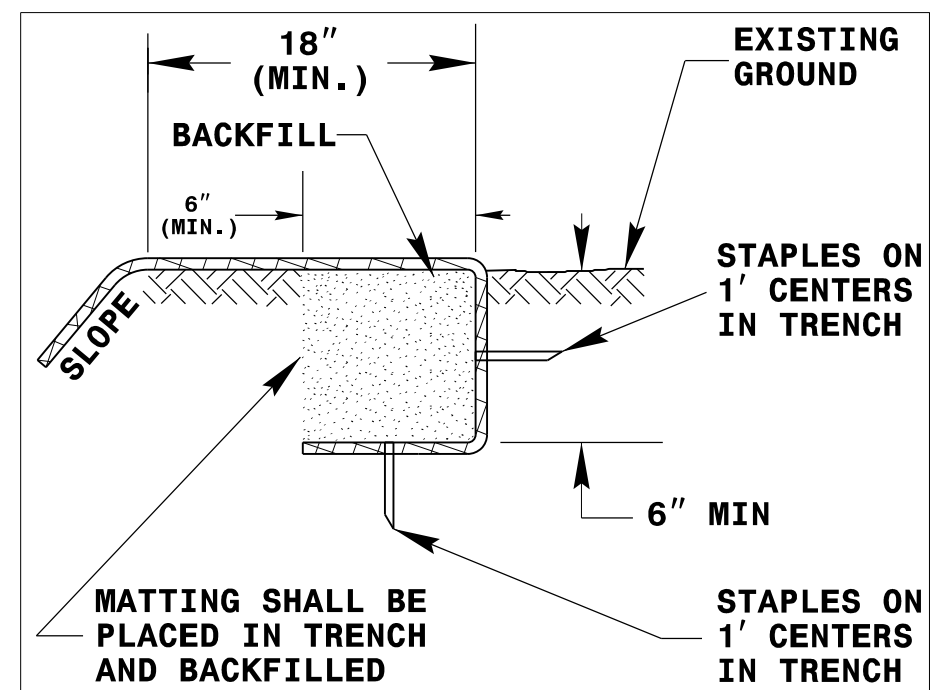
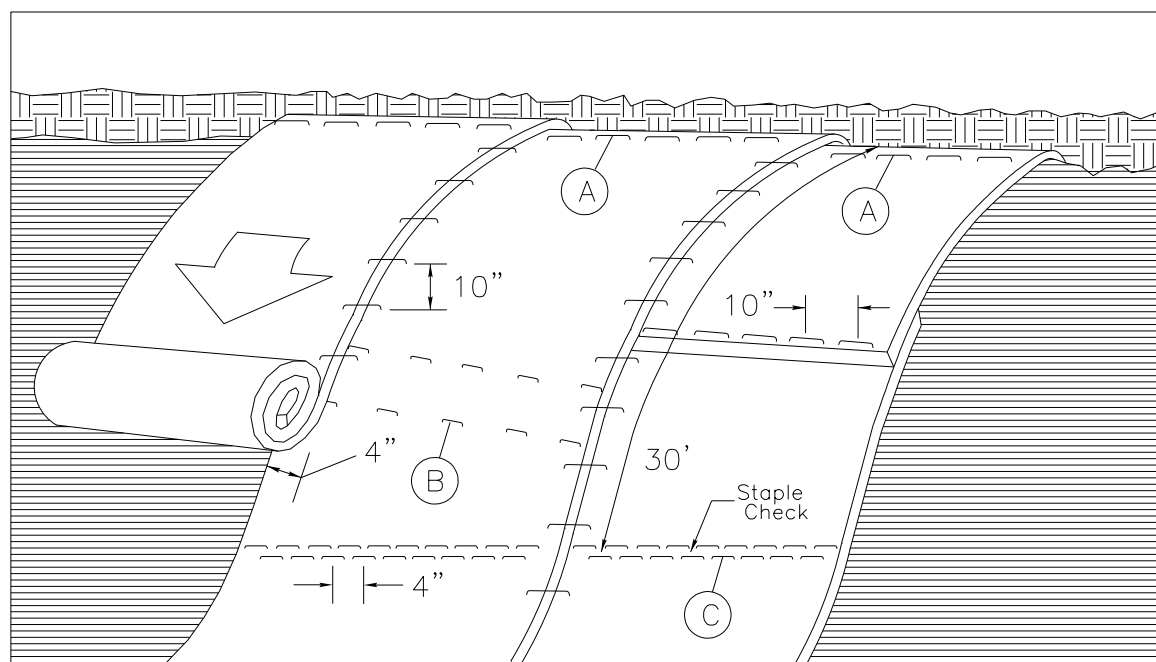


DIAGRAM (A)



MATTING ON SLOPES

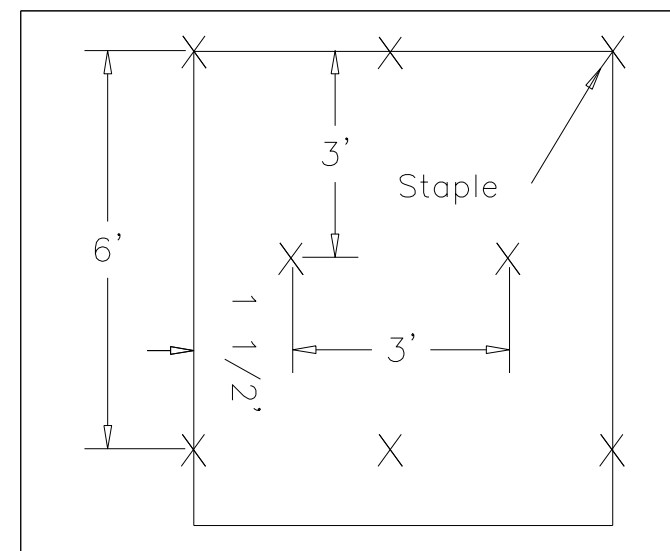


DIAGRAM (B)

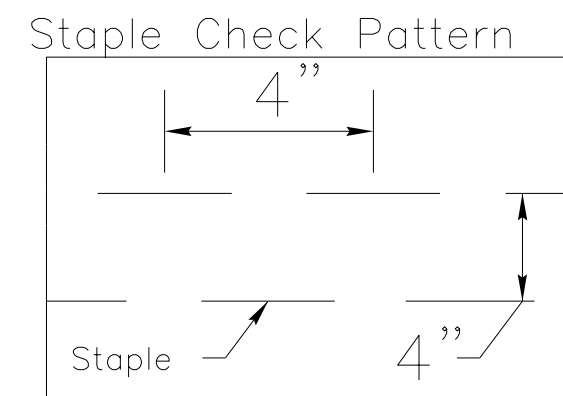


DIAGRAM (C)

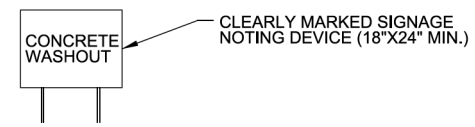
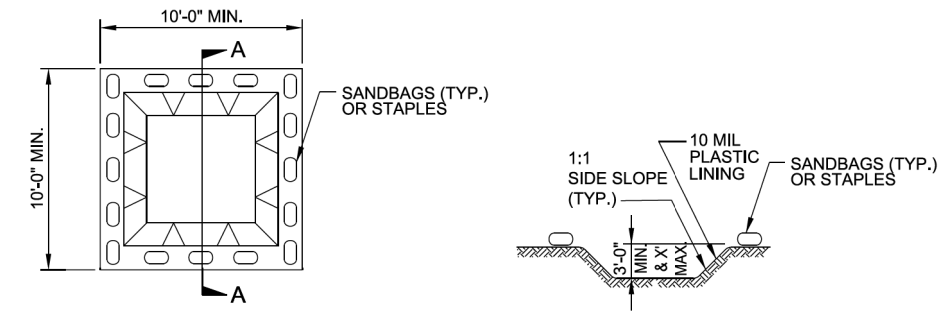
NOTES:

THIS DETAIL APPLIES TO STRAW, EXCELSIOR, AND PERMANENT SOIL REINFORCEMENT MAT (PSRM) INSTALLATION.

STAPLES SHALL BE NO. 11 GAUGE STEEL WIRE FORMED INTO A "U" SHAPE WITH A MINIMUM THROAT WIDTH OF 1 INCH AND NOT LESS THAN 6 INCHES IN LENGTH.

NOT TO SCALE

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



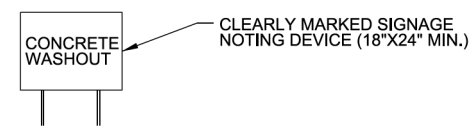
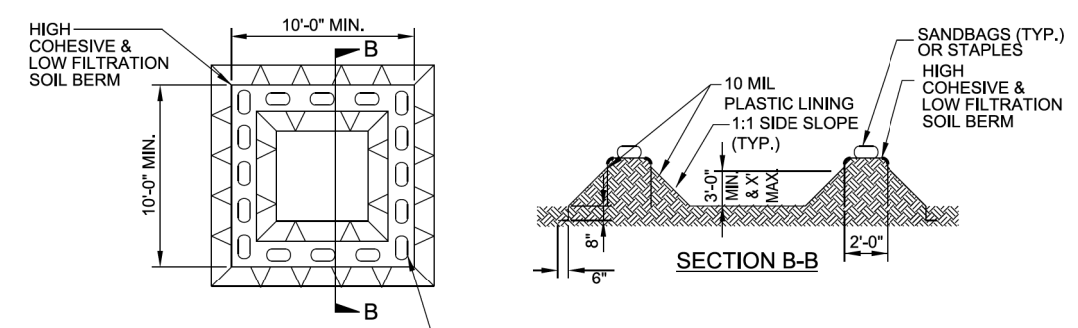
SECTION A-A

- NOTES:**
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

PLAN

BELOW GRADE WASHOUT STRUCTURE

NOT TO SCALE



SECTION B-B

- NOTES:**
1. ACTUAL LOCATION DETERMINED IN FIELD
 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
 3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

PLAN

ABOVE GRADE WASHOUT STRUCTURE

NOT TO SCALE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HOW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HOW ZONES.

PROJECT NO.	SHEET NO.
10J0601J	EC-4
F.A. PROJECT NO.	

PI Sta 19+39.02 -L-
 $\Delta = 6^{\circ} 35' 56.4''$ (RT)
 $D = 0^{\circ} 59' 16.3''$
 $L = 668.01'$
 $T = 334.38'$
 $R = 5,800.00'$

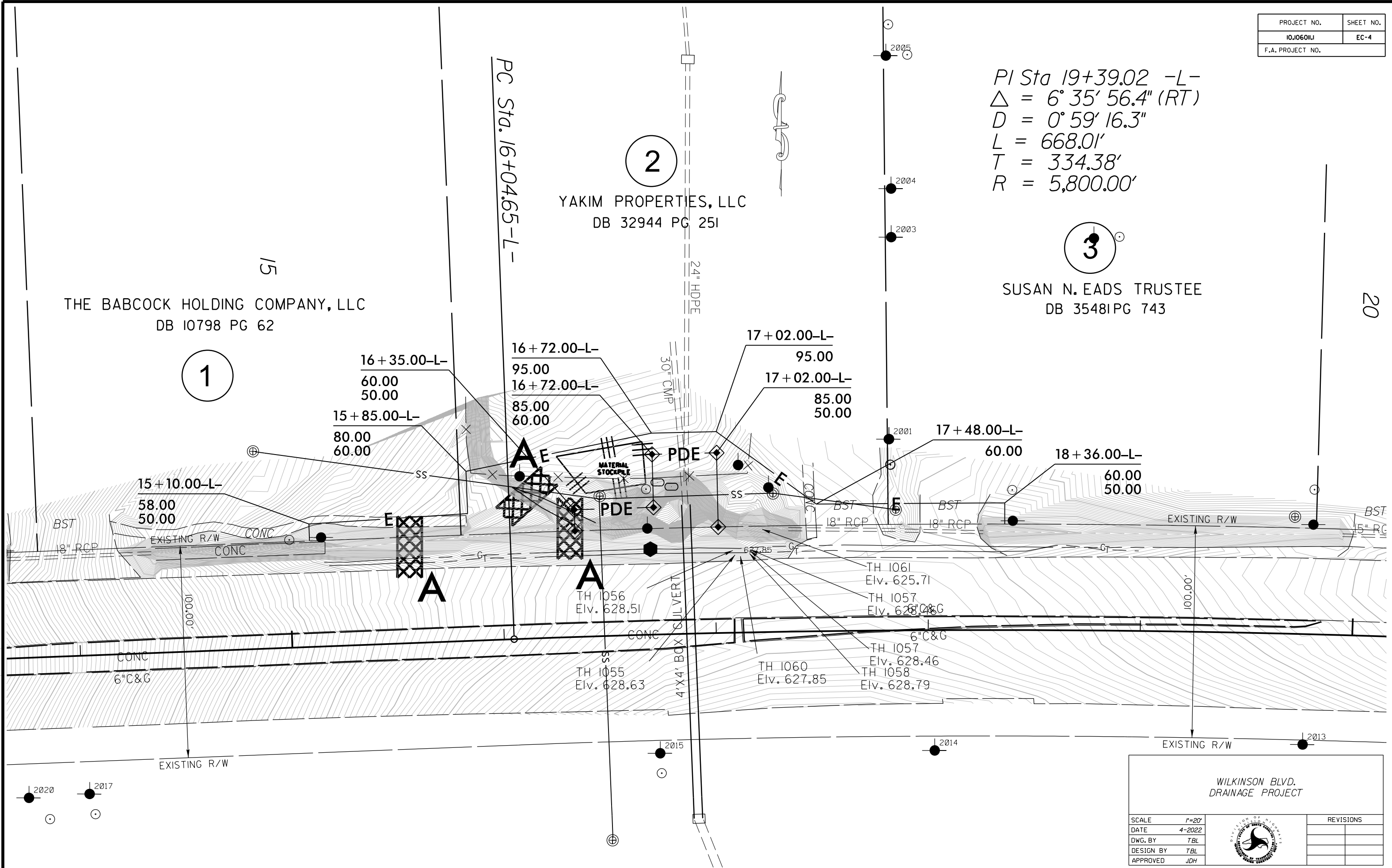
2
 YAKIM PROPERTIES, LLC
 DB 32944 PG 251


3
 SUSAN N. EADS TRUSTEE
 DB 35481 PG 743

15
 THE BABCOCK HOLDING COMPANY, LLC
 DB 10798 PG 62

1

20



WILKINSON BLVD. DRAINAGE PROJECT			REVISIONS
SCALE	1"=20'		
DATE	4-2022		
DWG. BY	TBL		
DESIGN BY	TBL		
APPROVED	JDH		

INSTALL EXCELSIOR MATTING FOR
EROSION CONTROL IN THE
PROPOSED DITCH LINE.
SEE SHEET 2A
STA. 16+06.5 -L- LT TO 16+37 -L- LT

EROSION CONTROL MEASURES MAY BE CHANGED,
IN FIELD AS DIRECTED BY THE ENGINEER.

PI Sta 19+39.02 -L-
 $\Delta = 6^{\circ} 35' 56.4''$ (RT)
 $D = 0^{\circ} 59' 16.3''$
 $L = 668.01'$
 $T = 334.38'$
 $R = 5,800.00'$

2

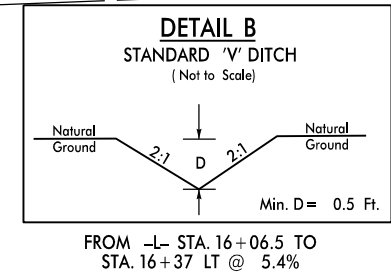
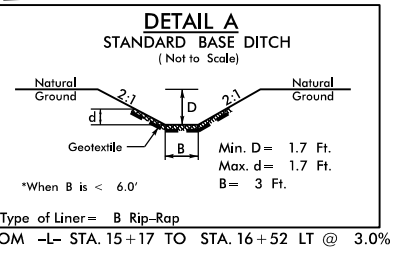
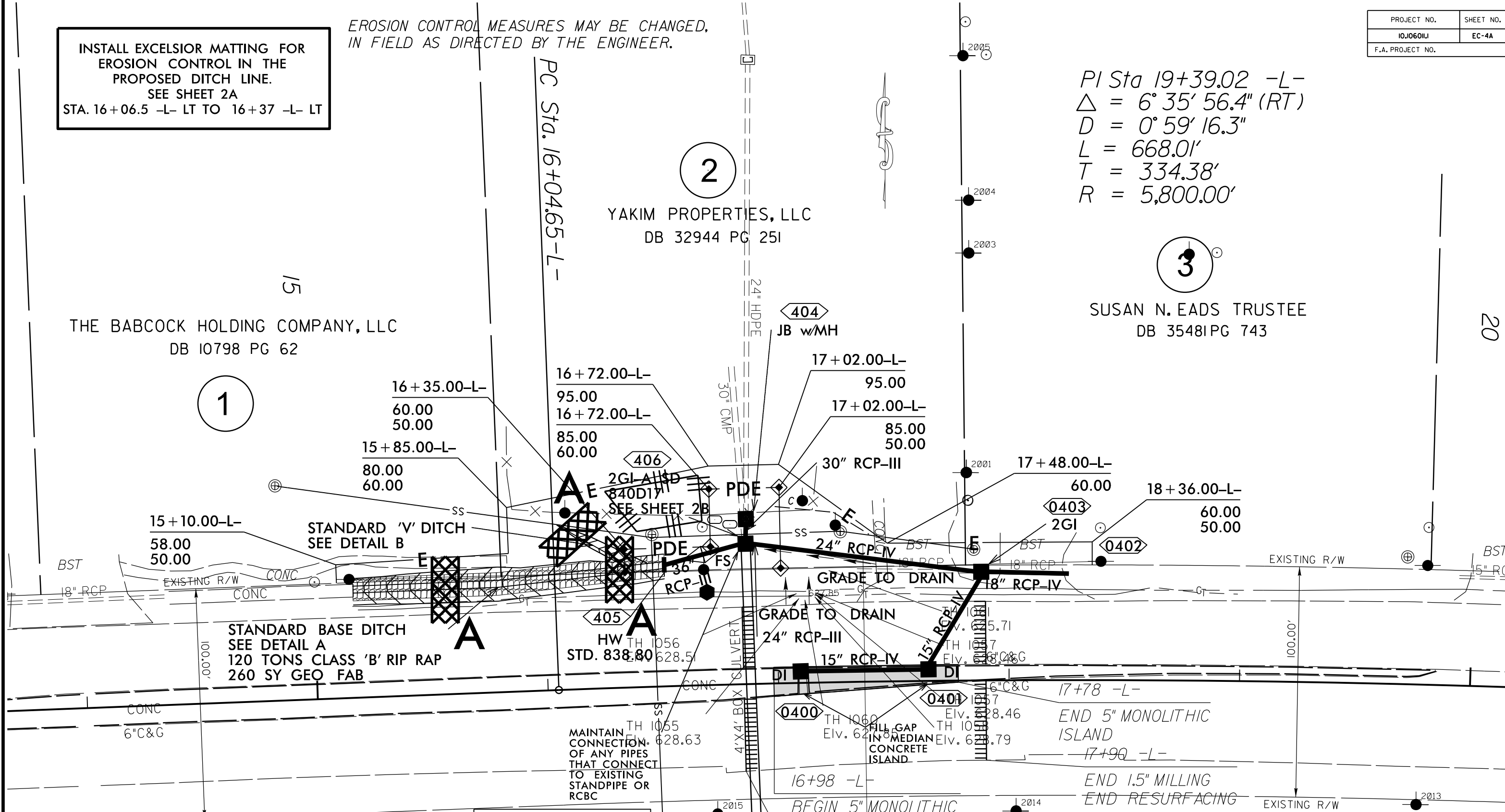
YAKIM PROPERTIES, LLC
DB 32944 PG 251

3

SUSAN N. EADS TRUSTEE
DB 35481 PG 743

THE BABCOCK HOLDING COMPANY, LLC
DB 10798 PG 62

1



WILKINSON BLVD.
DRAINAGE PROJECT

SCALE	1"=20'		REVISIONS
DATE	4-2022		
DWG. BY	TBL		
DESIGN BY	TBL		
APPROVED	JDH		

PAVEMENT MARKING SCHEDULE

PROJECT NO.	SHEET NO.
10.106011J	PMP-1
F.A. PROJECT NO.	

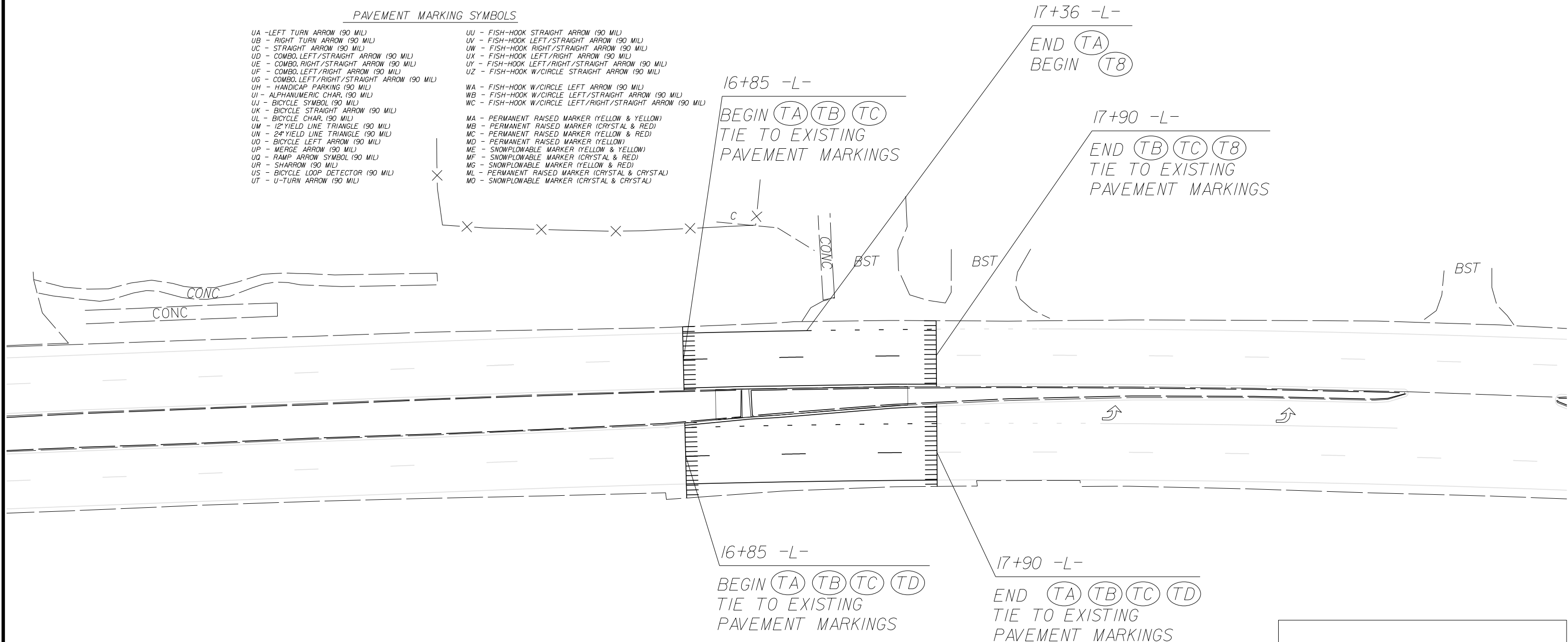
ROADWAY DESIGN
ENGINEER
07/24/2024
NORTH CAROLINA
PROFESSIONAL
SEAL
042673
J. H. ...

PAVEMENT MARKING LINES


- | | |
|--|---|
| TA - WHITE EDGELINE (4'.90 MIL) | TU - WHITE DIAGONAL (12'.90 MIL) |
| TB - YELLOW EDGELINE (4'.90 MIL) | TV - YELLOW DIAGONAL (12'.90 MIL) |
| TC - 10FT. WHITE SKIP (4'.90 MIL) | T1 - WHITE LINE, RR X (16'.90 MIL) |
| TD - 3FT.-9FT./SP WHITE MINISKIP (4'.90 MIL) | T2 - WHITE STOPBAR (24'.90 MIL) |
| TE - WHITE SOLID LANE LINE (4'.90 MIL) | T3 - WHITE CROSSWALK LINE (24'.90 MIL) |
| TF - 10FT. YELLOW SKIP (4'.90 MIL) | T4 - WHITE RUMBLE STRIP (4'.240 MIL) |
| TH - YELLOW SINGLE CENTER (4'.90 MIL) | T5 - YELLOW RUMBLE STRIP (4'.240 MIL) |
| TI - YELLOW DOUBLE CENTER (4'.90 MIL) | T6 - WHITE EDGELINE (6'.90 MIL) |
| TJ - 10FT. WHITE SKIP (6'.90 MIL) | T7 - YELLOW EDGELINE (6'.90 MIL) |
| TK - 3FT.-9FT./SP WHITE MINISKIP (6'.90 MIL) | T8 - 2FT.-6FT./SP WHITE MINISKIP (4'.90 MIL) |
| TL - WHITE SOLID LANE LINE (6'.90 MIL) | T9 - 2FT.-6FT./SP YELLOW MINISKIP (4'.90 MIL) |
| TM - 10FT. YELLOW SKIP (6'.90 MIL) | T10 - 3FT.-9FT./SP WHITE MINISKIP (12'.90 MIL) |
| TN - WHITE GORELINE (8'.90 MIL) | T11 - 2FT.-6FT./SP WHITE MINISKIP (6'.90 MIL) |
| TO - WHITE DIAGONAL (8'.90 MIL) | T12 - 2FT.-6FT./SP YELLOW MINISKIP (6'.90 MIL) |
| TP - YELLOW DIAGONAL (8'.90 MIL) | T13 - 3FT.-9FT./SP WHITE MINISKIP (8'.90 MIL) |
| TQ - WHITE CROSSWALK LINE (8'.90 MIL) | T14 - 3FT.-9FT./SP WHITE MINISKIP (12'.90 MIL) |
| TR - WHITE SOLID LANE LINE (8'.90 MIL) | T15 - YELLOW SINGLE CENTER (6'.90 MIL) |
| TS - WHITE GORELINE (12'.90 MIL) | T16 - YELLOW DOUBLE CENTER (6'.90 MIL) |
| TT - WHITE SOLID LANE LINE (12'.90 MIL) | T17 - 3FT.-3FT./SP WHITE MINISKIP ENTRANCE LINE (8'.90 MIL) |

PAVEMENT MARKING SYMBOLS

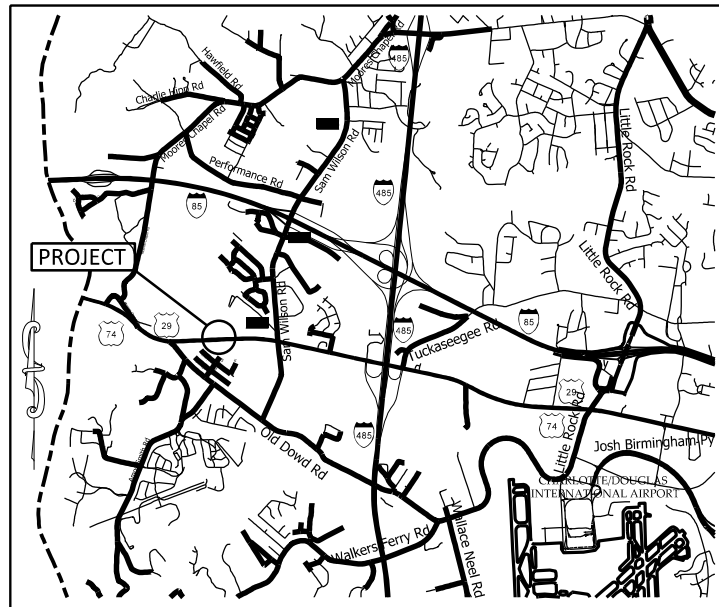
- | | |
|--|--|
| UA - LEFT TURN ARROW (90 MIL) | UU - FISH-HOOK STRAIGHT ARROW (90 MIL) |
| UB - RIGHT TURN ARROW (90 MIL) | UV - FISH-HOOK LEFT/STRAIGHT ARROW (90 MIL) |
| UC - STRAIGHT ARROW (90 MIL) | UW - FISH-HOOK RIGHT/STRAIGHT ARROW (90 MIL) |
| UD - COMBO. LEFT/STRAIGHT ARROW (90 MIL) | UX - FISH-HOOK LEFT/RIGHT ARROW (90 MIL) |
| UE - COMBO. RIGHT/STRAIGHT ARROW (90 MIL) | UY - FISH-HOOK LEFT/RIGHT/STRAIGHT ARROW (90 MIL) |
| UF - COMBO. LEFT/RIGHT ARROW (90 MIL) | UZ - FISH-HOOK W/CIRCLE STRAIGHT ARROW (90 MIL) |
| UG - COMBO. LEFT/RIGHT/STRAIGHT ARROW (90 MIL) | |
| UH - HANDICAP PARKING (90 MIL) | WA - FISH-HOOK W/CIRCLE LEFT ARROW (90 MIL) |
| UI - ALPHANUMERIC CHAR. (90 MIL) | WB - FISH-HOOK W/CIRCLE LEFT/STRAIGHT ARROW (90 MIL) |
| UJ - BICYCLE SYMBOL (90 MIL) | WC - FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW (90 MIL) |
| UK - BICYCLE STRAIGHT ARROW (90 MIL) | |
| UL - BICYCLE CHAR. (90 MIL) | MA - PERMANENT RAISED MARKER (YELLOW & YELLOW) |
| UM - 12" YIELD LINE TRIANGLE (90 MIL) | MB - PERMANENT RAISED MARKER (CRYSTAL & RED) |
| UN - 24" YIELD LINE TRIANGLE (90 MIL) | MC - PERMANENT RAISED MARKER (YELLOW & RED) |
| UO - BICYCLE LEFT ARROW (90 MIL) | MD - PERMANENT RAISED MARKER (YELLOW) |
| UP - MERGE ARROW (90 MIL) | ME - SNOWPLOWABLE MARKER (YELLOW & YELLOW) |
| UQ - RAMP ARROW SYMBOL (90 MIL) | MF - SNOWPLOWABLE MARKER (CRYSTAL & RED) |
| UR - SHARROW (90 MIL) | MG - SNOWPLOWABLE MARKER (YELLOW & RED) |
| US - BICYCLE LOOP DETECTOR (90 MIL) | ML - PERMANENT RAISED MARKER (CRYSTAL & CRYSTAL) |
| UT - U-TURN ARROW (90 MIL) | MO - SNOWPLOWABLE MARKER (CRYSTAL & CRYSTAL) |



WILKINSON BLVD.
DRAINAGE PROJECT

SCALE	1"=20'		REVISIONS
DATE	2-2024		
DWG. BY	JCB		
DESIGN BY	TBL		
APPROVED	JDH		

WBS PROJECT NO: 10.106011.1



VICINITY MAP NOT TO SCALE

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

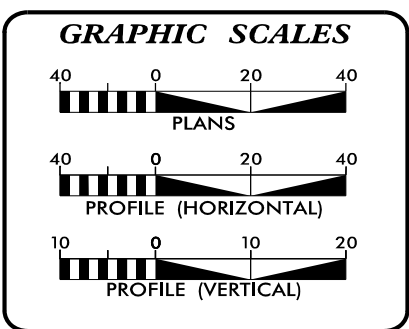
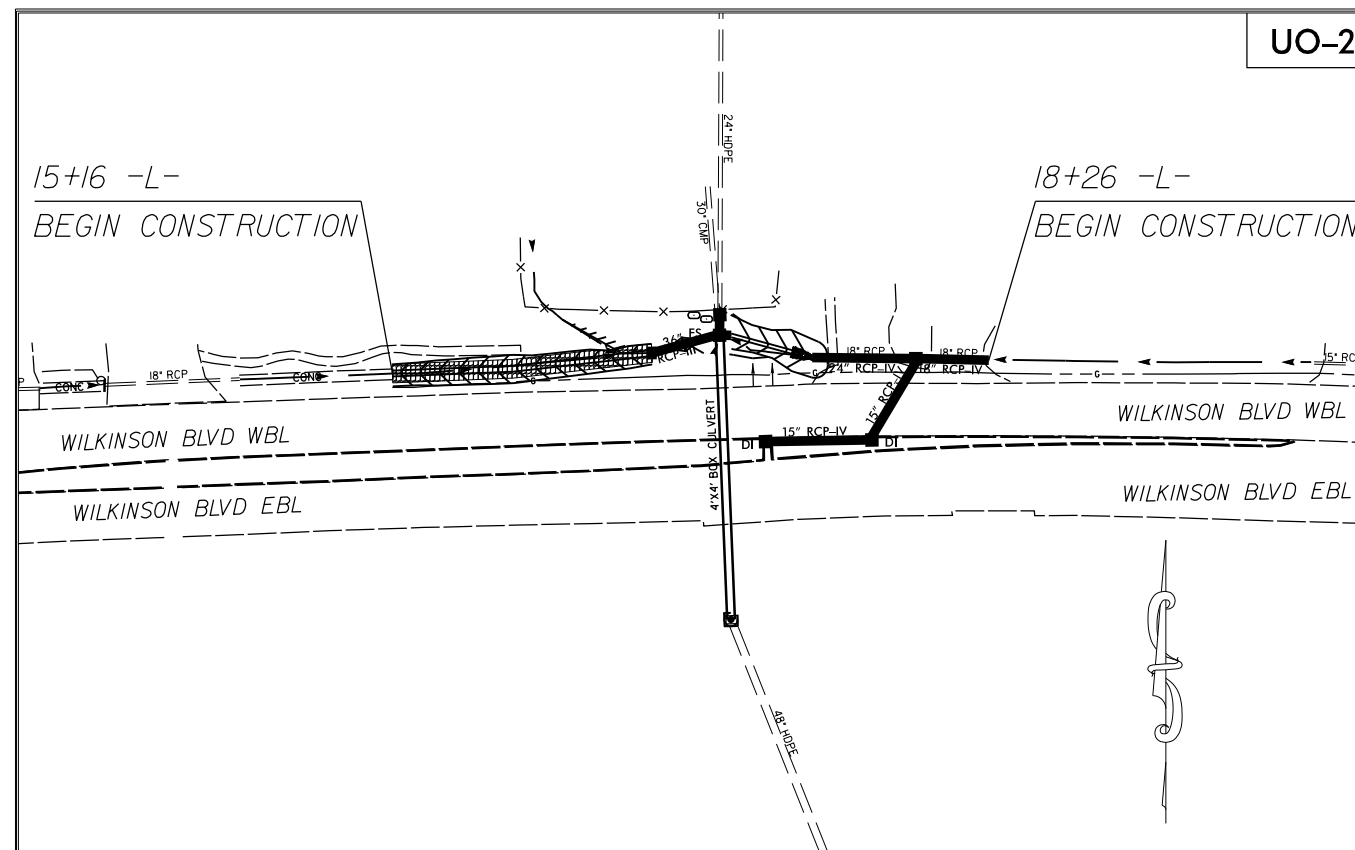
**UTILITIES BY OTHERS PLANS
 MECKLENBURG COUNTY**

**LOCATION: NORTH SIDE OF WILKINSON BLVD. (US WHY 29/74)
 BETWEEN SAM WILSON RD. (SR-1625) AND PARROTT DR.**

TYPE OF WORK: UTILITIES BY OTHERS

WBS NO.	SHEET NO.
10.106011.1	UO-1

NOTE:
 ALL UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS.
 NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR UTILITY WORK SHOWN ON THIS SHEET.



INDEX OF SHEETS


SHEET NO.:	DESCRIPTION:
UO-1	TITLE SHEET
UO-2	UBO PLAN SHEET

UTILITY OWNERS WITH CONFLICTS

(A) POWER - DUKE ENERGY
 (B) COMMUNICATIONS - AT&T
 (C) COMMUNICATIONS - CHARTER

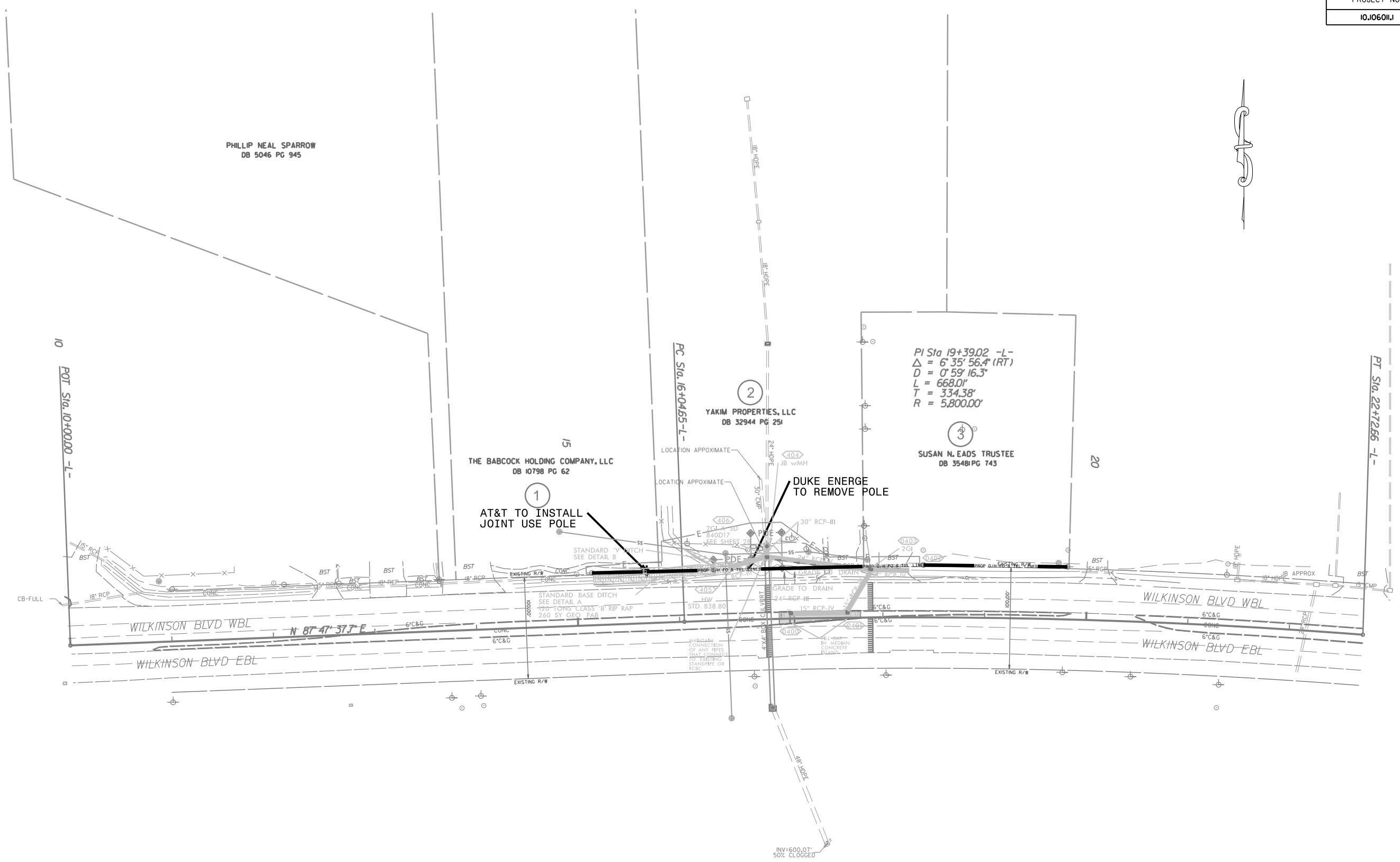
PREPARED IN THE OFFICE OF:

DDC UNIT DIVISION 10
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS



**DIVISION 10
 UTILITIES UNIT**
 716 W. MAIN ST.
 ALBEMARLE, NC 28001
 PHONE (704) 983-4400

T. LYNN BASINGER DIVISION UTILITIES ENGINEER
ADAM PRESLAR SENIOR DIVISION UTILITIES COORDINATOR



**WILKINSON BLVD.
DRAINAGE PROJECT**

SCALE	1"=50'		REVISIONS
DATE	7-2024		
DWG. BY	JCB		
DESIGN BY			
APPROVED	JDH		

WBS NO.	SHEET NO.
10.106011.1	UC-1

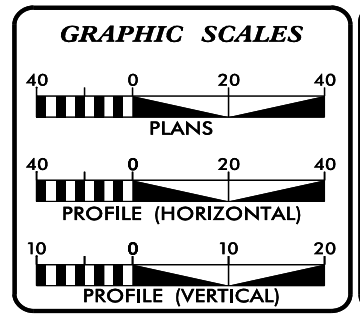
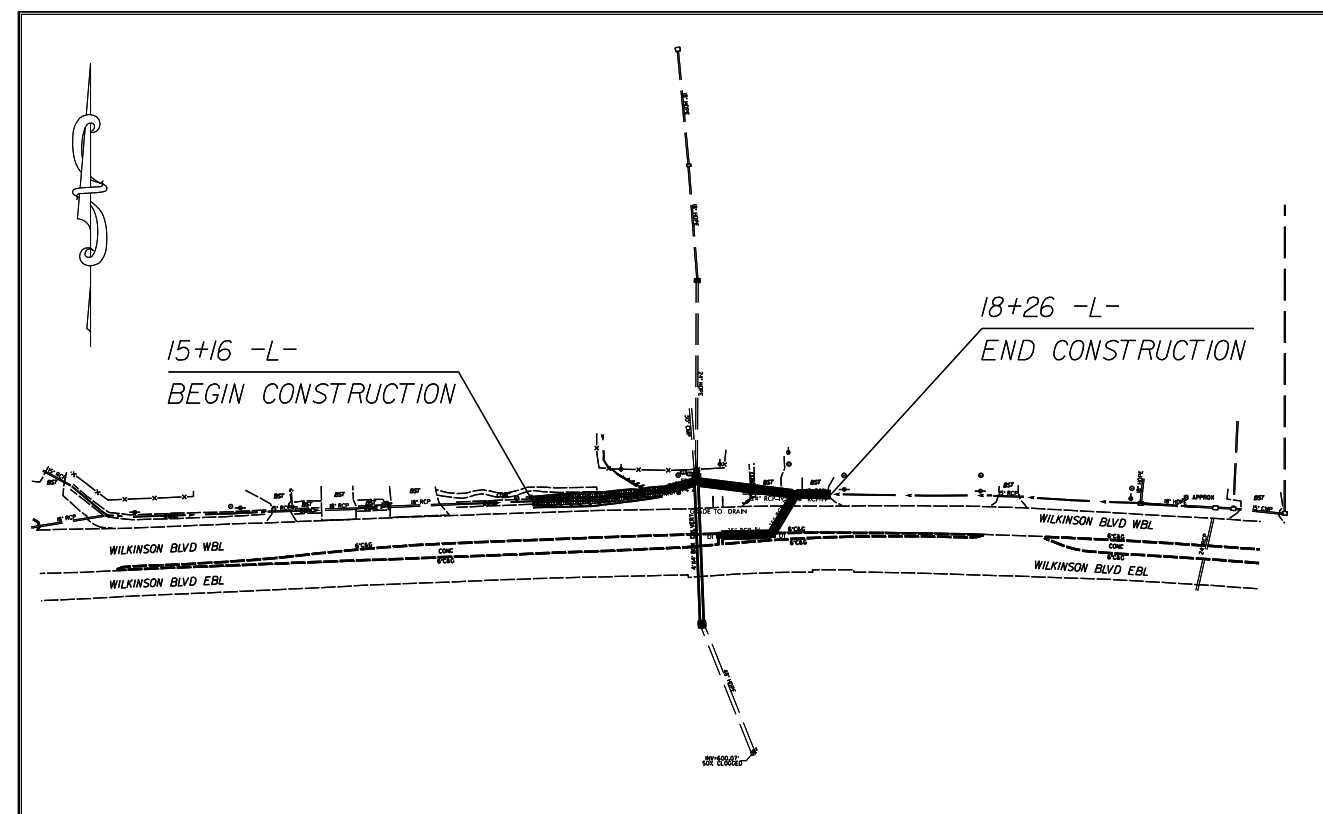
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS
MECKLENBURG COUNTY

LOCATION: NORTH SIDE OF WILKINSON BLVD. (US HWY 29/74)
BETWEEN SAM WILSON RD. (SR-1625) AND PARROTT DR.

TYPE OF WORK: WATER AND SANITARY SEWER

WBS NO: 10.106011.1



INDEX OF SHEETS


SHEET NO.:	DESCRIPTION:
UC-1	TITLE SHEET
UC-2	UC PLAN SHEET

WATER AND SEWER OWNERS ON PROJECT

(A) WATER - CITY OF CHARLOTTE
(B) SANITARY SEWER - CITY OF CHARLOTTE

PREPARED IN THE OFFICE OF:

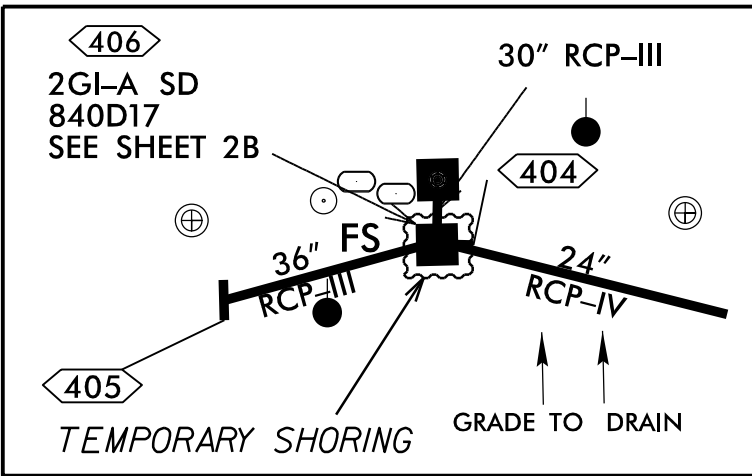
DDC UNION DIVISION 10
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS



DIVISION 10 UTILITIES UNIT
716 W. MAIN ST.
ALBEMARLE NC 28001
PHONE (704) 983-4400

T. LYNN BASINGER DIVISION UTILITIES ENGINEER
ADAM PRESLAR SENIOR DIVISION UTILITIES CORDINATOR

24-JUL-2024 12:00 S:\DDC\RDY\Mecklenburg\Wilkinson Blvd Drainage for Dwight Hill\Utility\Wilkinson Blvd_UC_TSH.dgn \$\$\$USERNAME\$\$\$



TEMPORARY SHORING DETAIL

15

THE BABCOCK HOLDING COMPANY, LLC
DB 10798 PG 62

1

100 LF Water Service Line
Relocate Water Meter (2)
to be field located based on
extents of shoring excavation

Replace 82' 8" Sewer line
Perform incidental Sewer
Bypass Pumping per UC
Special Provisions

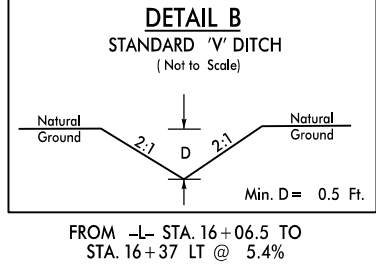
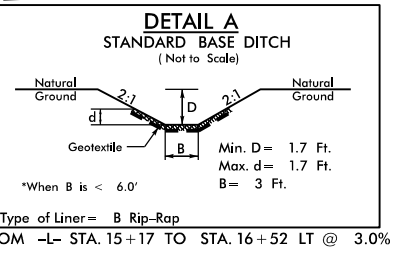
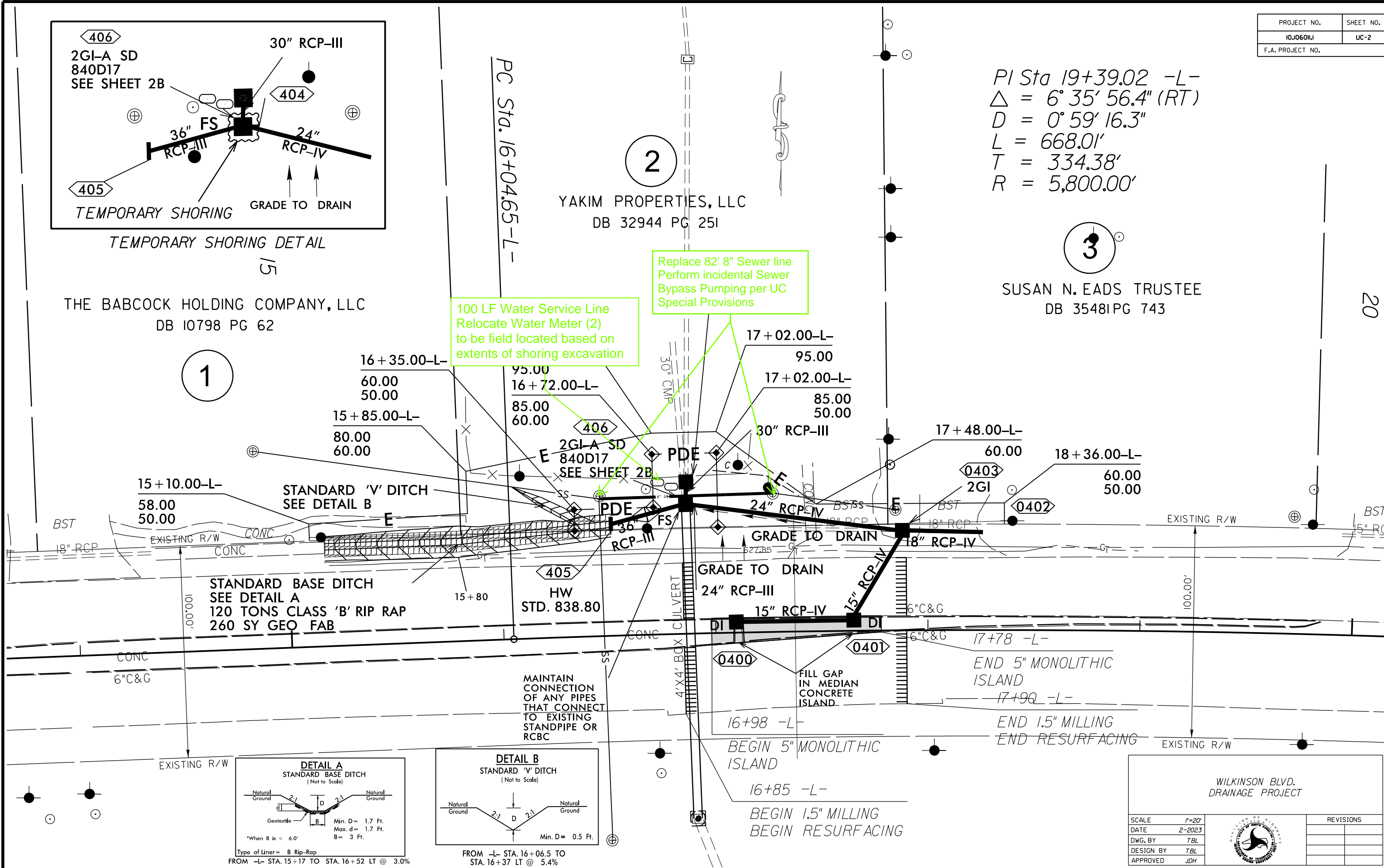
YAKIM PROPERTIES, LLC
DB 32944 PG 251

PI Sta 19+39.02 -L-
 $\Delta = 6^{\circ} 35' 56.4''$ (RT)
 $D = 0^{\circ} 59' 16.3''$
 $L = 668.01'$
 $T = 334.38'$
 $R = 5,800.00'$

3

SUSAN N. EADS TRUSTEE
DB 35481 PG 743

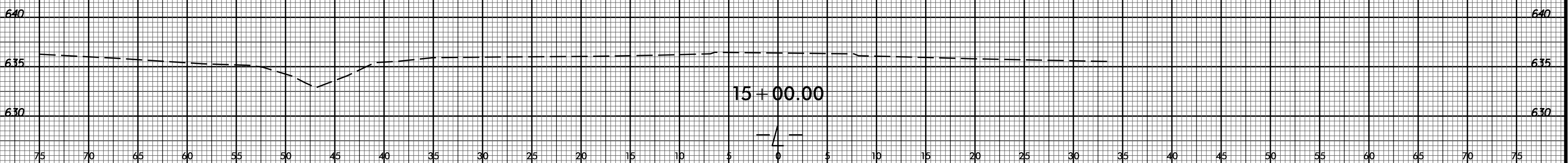
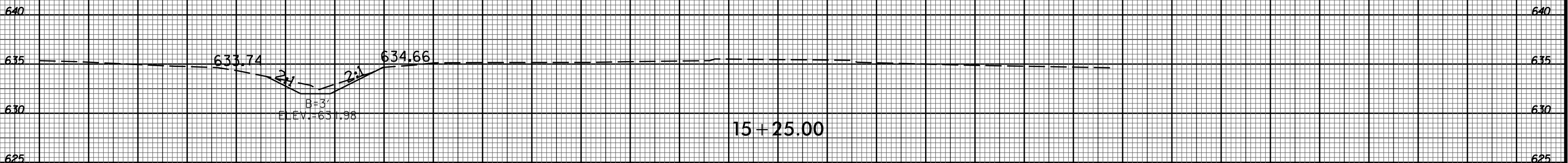
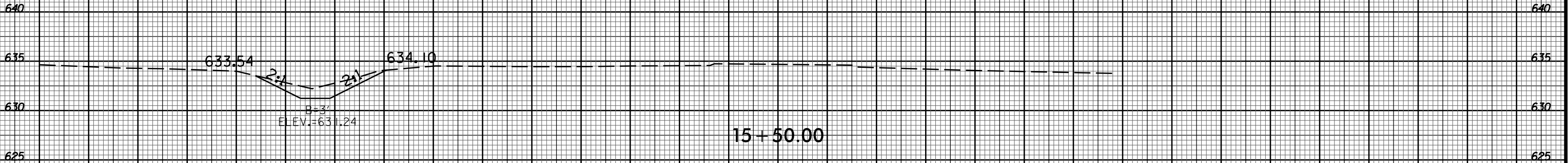
20



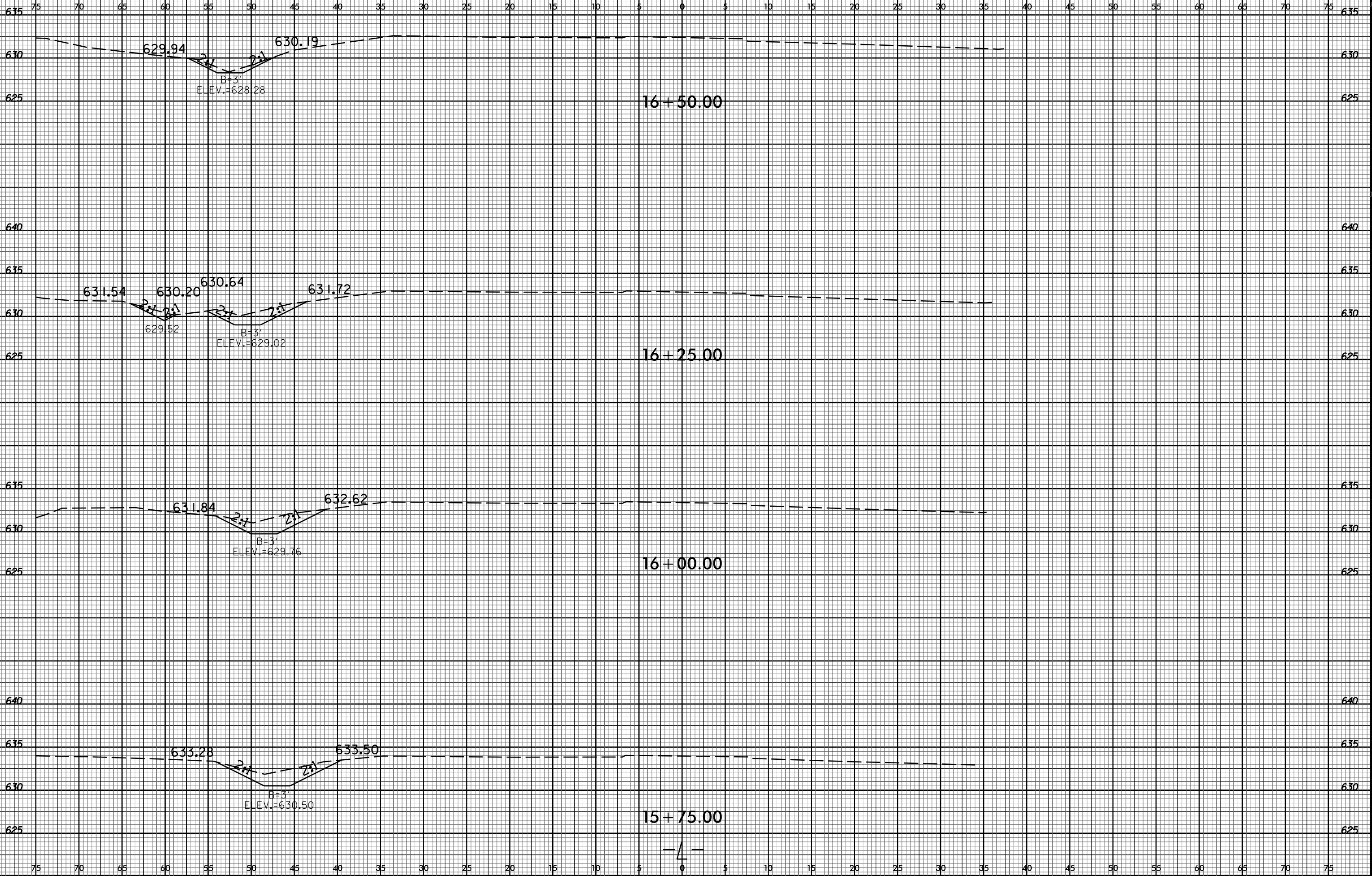
WILKINSON BLVD. DRAINAGE PROJECT			REVISIONS
SCALE	1"=20'		
DATE	2-2023		
DWG. BY	TBL		
DESIGN BY	TBL		
APPROVED	JDH		



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



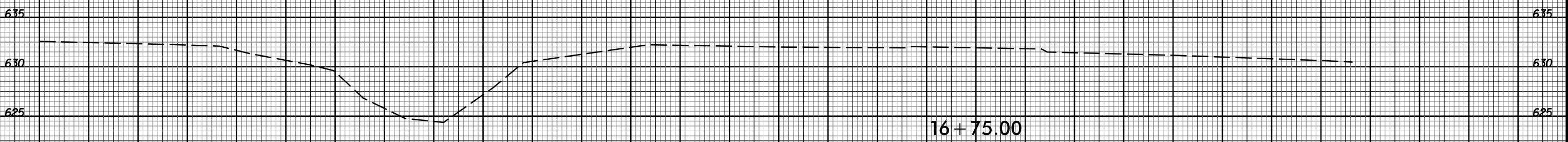
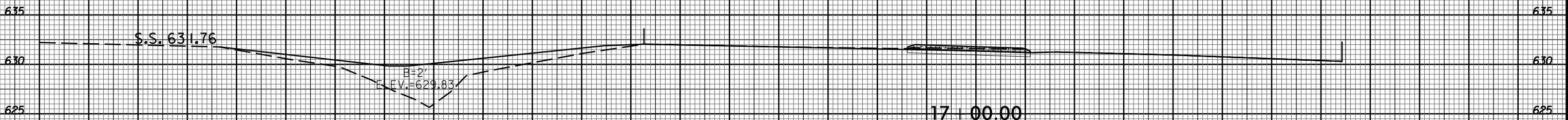
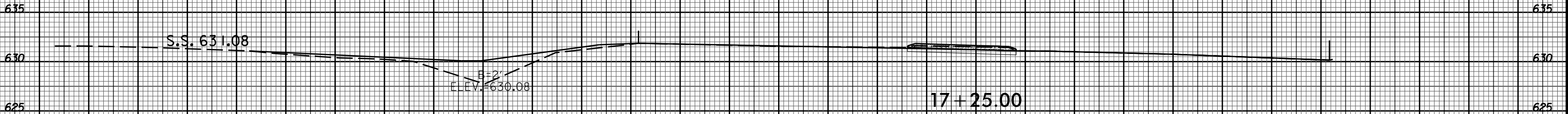
6/23/16



PROJ. REFERENCE NO.
10.106011.1

SHEET NO.
X-3

95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55



05-MAR-2024 10:01 AM S:\DCC\60\Mecklenburg\Wilkinson Blvd Drainage_XPL.dgn
 \$\$\$USERNAME\$\$\$



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

635

635

630

630

18+00.00

635

635

630

630

17+75.00

635

635

630

630

17+50.00



75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75