

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

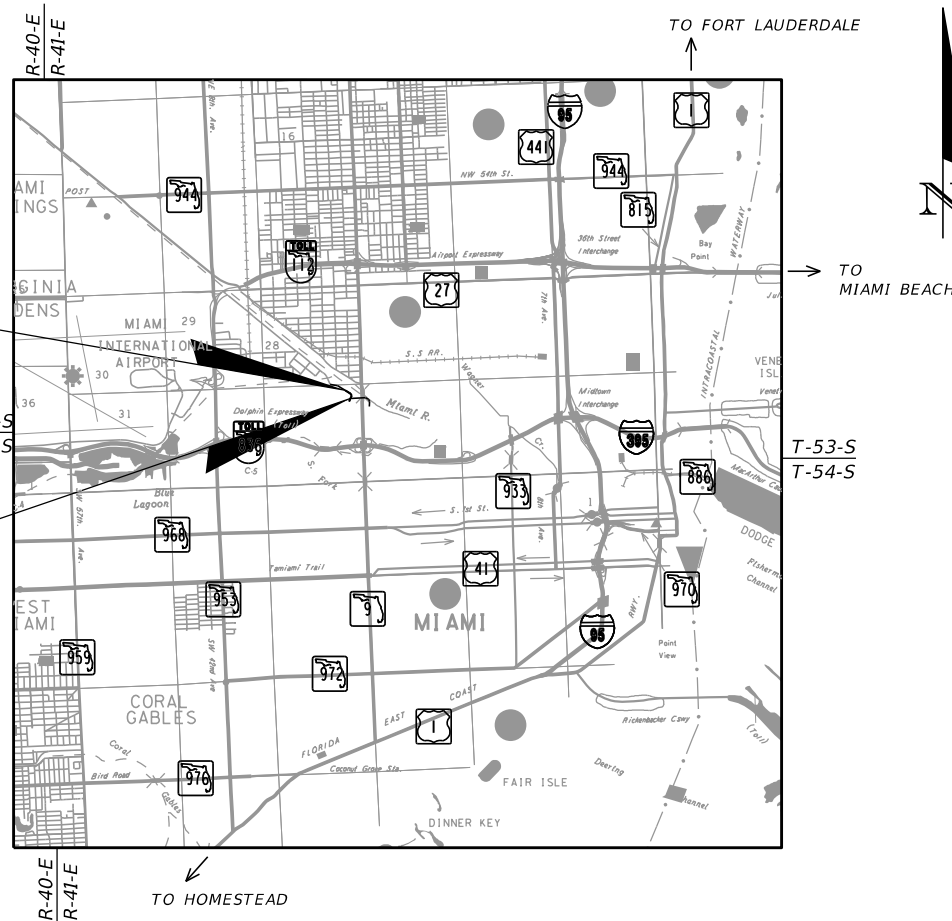
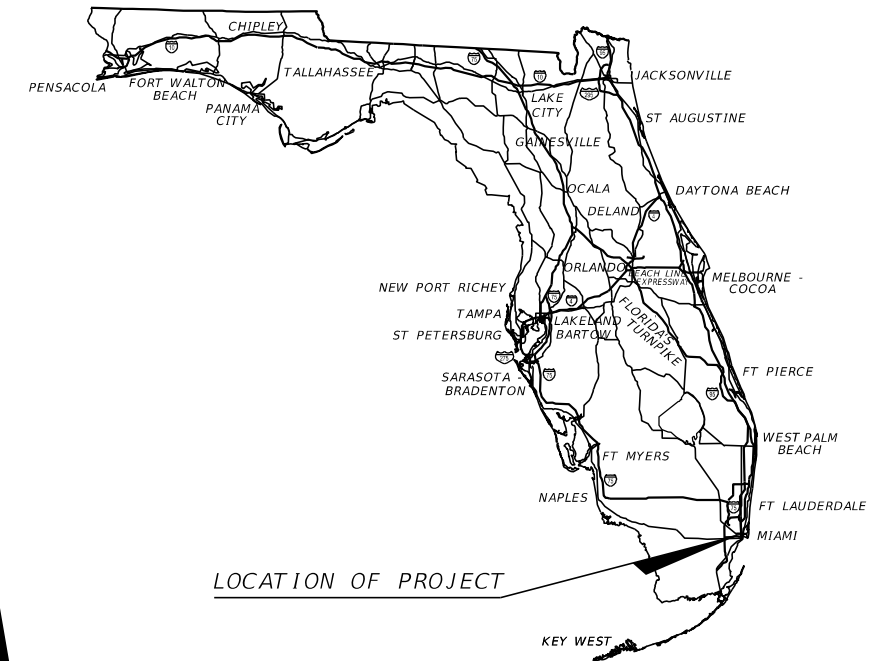
FINANCIAL PROJECT ID 428327-3-72-01

MIAMI-DADE COUNTY

NW S. RIVER DRIVE AT NW 18th TERR.
ROADWAY RECONSTRUCTION & OUTFALL REPAIR

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3	TYPICAL SECTIONS
4	SUMMARY OF DRAINAGE STRUCTURES
5	OPTIONAL MATERIALS TABULATION
6	GENERAL NOTES
7	ROADWAY PLAN
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12	CROSS SECTIONS
13-14	TEMPORARY TRAFFIC CONTROL PLANS
15	SIGNING & PAVEMENT MARKING PLAN
SQ-1 - SQ-4	SUMMARY OF QUANTITIES



LOCATION OF PROJECT

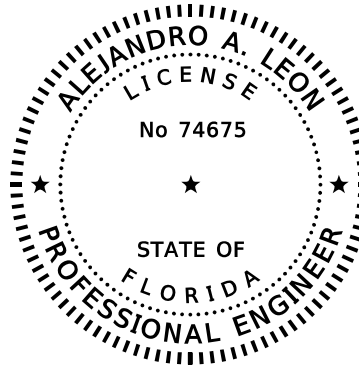
ROADWAY PLANS
ENGINEER OF RECORD:
ALEJANDRO A. LEON, P.E.
P.E. NO.: 74675
CHA Consulting, Inc.
8935 NW 35th LANE, SUITE 200
DORAL, FLORIDA 33172
(305) 592-7283 / fax: (305) 593-1594
CONTRACT NO.: C-A038
VENDOR NO.: 160966259
FDOT PROJECT MANAGER:
NATHANIEL PULIDO, P.E.

GOVERNING DESIGN STANDARDS:
Florida Department of Transportation, FY2022-23 Design Standards eBook (DSeB) and applicable Design Standards Revisions (DSRs) at the following website:
<http://www.fdot.gov/design/Standardplans.shtm>

GOVERNING STANDARD SPECIFICATIONS:
Florida Department of Transportation, January 2022 Standard Specifications for Road and Bridge Construction at the following website:
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
	23	1

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

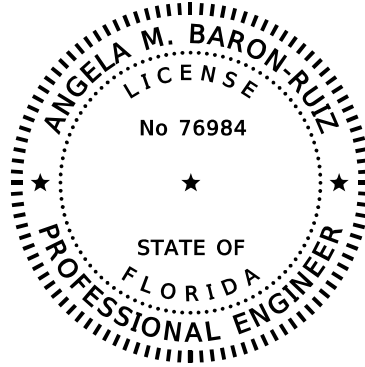
ON THE DATE ADJACENT TO THE SEAL

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CHA Consulting, Inc.
8935 NW 35TH LANE, SUITE 200
DORAL, FL 33172
ALEJANDRO A. LEON, P.E. No. 74675

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004. F.A.C.

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SQ-1 - SQ-3	SUMMARY OF QUANTITIES



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ON THE DATE ADJACENT TO THE SEAL

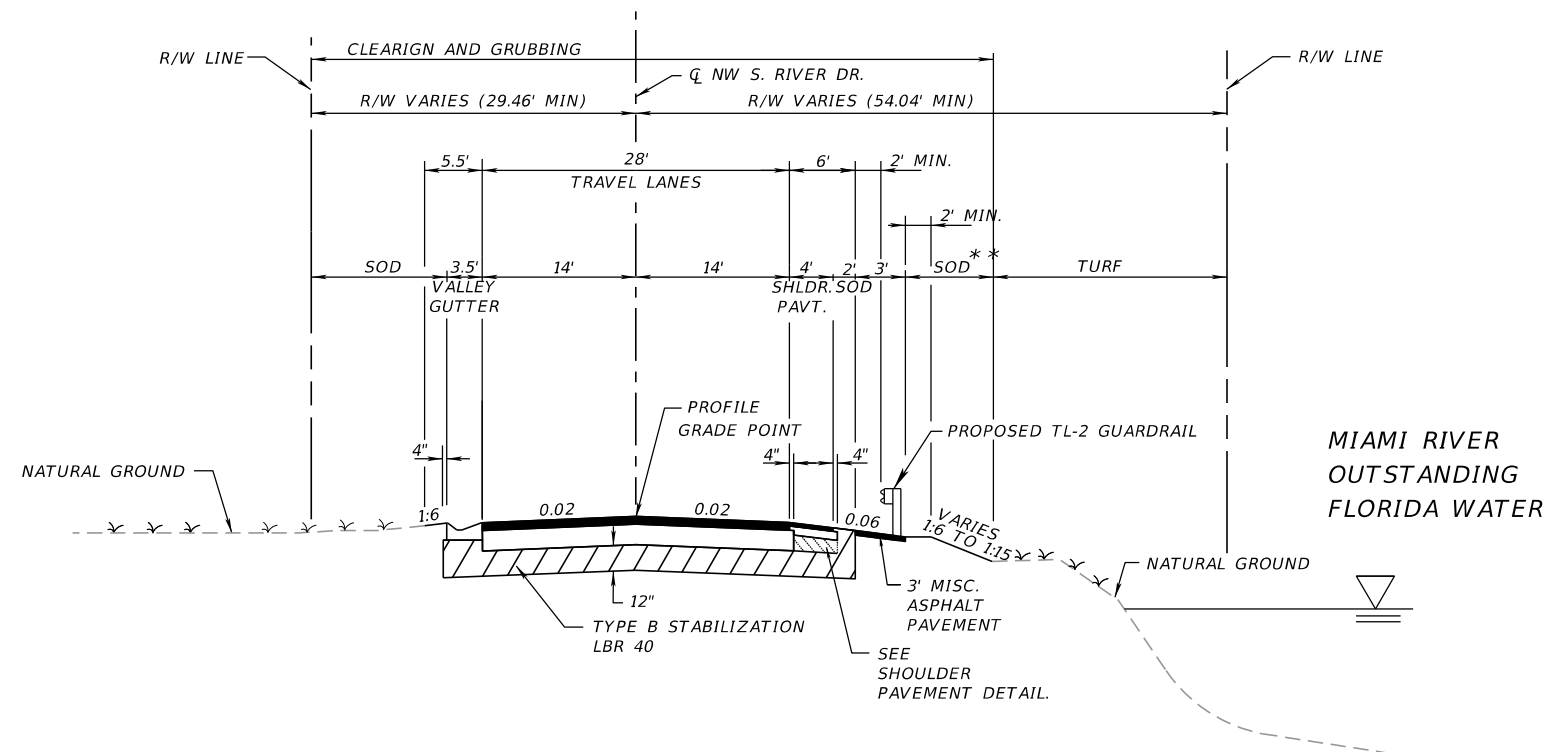
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CHA Consulting, Inc.
8935 NW 35TH LANE, SUITE 200
DORAL, FL 33172
ANGELA M. BARON-RUIZ, P.E. NO. 76984

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004. F.A.C.

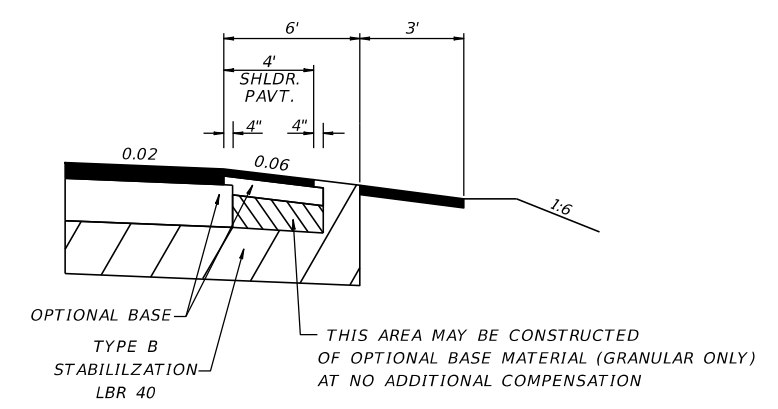
SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
4	SUMMARY OF DRAINAGE STRUCTURES
5	OPTIONAL MATERIALS TABULATION
9	DRAINAGE STRUCTURES
10-11	SPECIAL DETAILS
SQ-4	SUMMARY OF QUANTITIES

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ALEJANDRO A. LEON P.E. LICENSE NUMBER 74675 CHA CONSULTING, INC. 8935 NW 35TH LANE, SUITE 200 DORAL, FL 33172		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
							MIAMI-DADE	428327-3-72-01	SIGNATURE SHEET 2



**TYPICAL SECTION
STA. 100+80.00 TO STA. 102+96.00**

- TRAVEL LANES
- OPTIONAL BASE GROUP 8 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (2")
AND FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2")
- SHOULDER PAVEMENT
- OPTIONAL BASE GROUP 1 WITH
FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2")
- MILLING *
- MILL EXISTING ASPHALT
PAVEMENT (1 1/2" Avg. Depth)
- RESURFACING *
- FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2")



SHOULDER PAVEMENT DETAIL

NOTES:

- * MILLING & RESURFACING FROM
STA. 100+80.00 TO STA. 101+10.00 AND
STA. 102+22.00 TO STA. 102+96.00
- ** ARTICULATED BLOCK RETEMENT FROM
STA. 101+52.32 TO STA. 102+00.55

TRAFFIC DATA

DESIGN SPEED = 20 MPH

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ALEJANDRO A. LEON P.E. LICENSE NUMBER 74675 CHA CONSULTING, INC. 8935 NW 35TH LANE, SUITE 200 DORAL, FL 33172		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
							MIAMI-DADE	428327-3-72-01	<p style="text-align: center;">TYPICAL SECTIONS</p> <p style="text-align: center;">3</p>

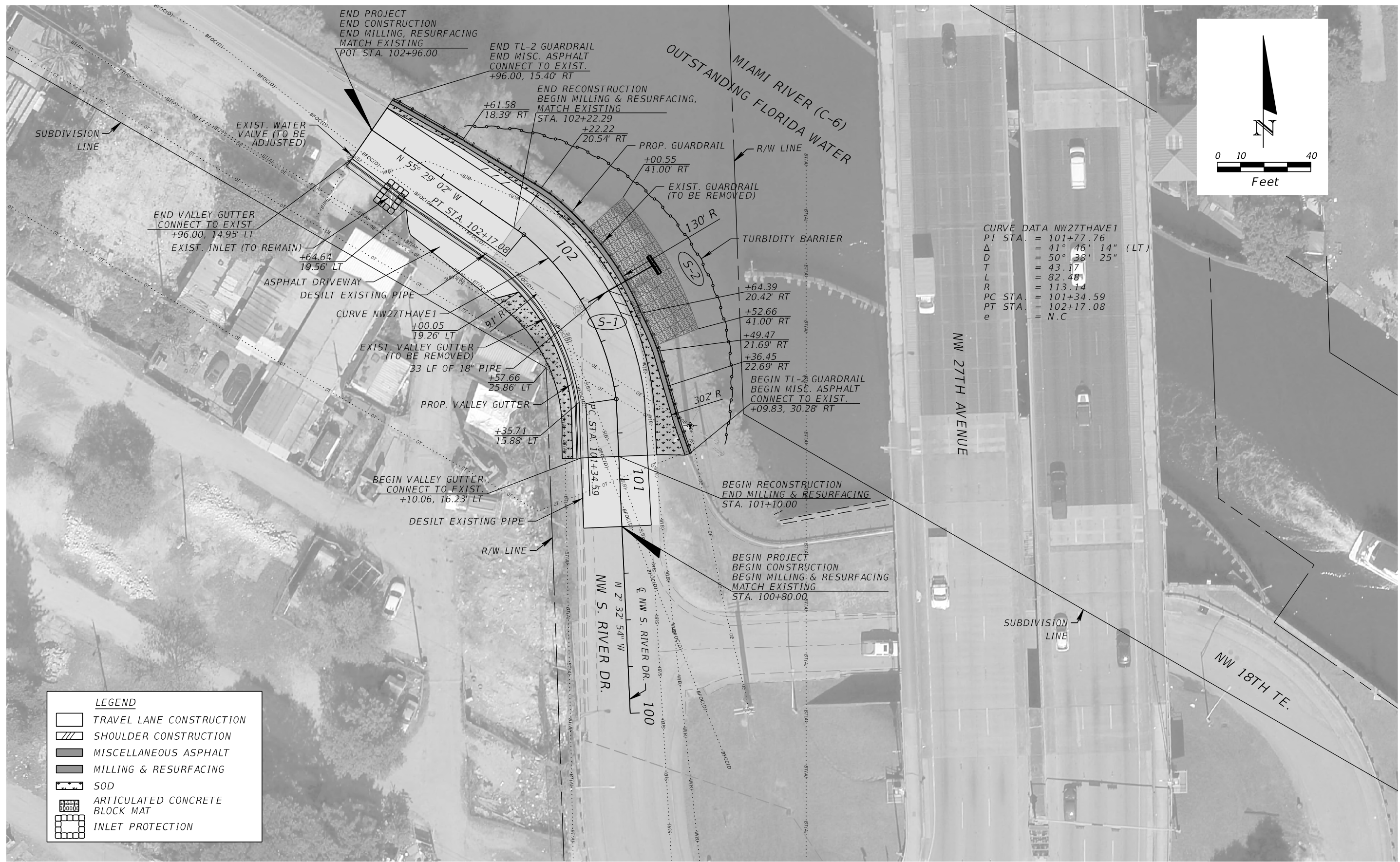
GENERAL:

1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE: NAVD 88.
2. ALL SURVEY INFORMATION WAS OBTAINED FROM A LICENSED FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AND UTILIZED AS SUPPORTING DATA IN THE PRODUCTION OF DESIGN PLANS AND FOR CONSTRUCTION ON SUBJECT PROJECT. THE PROFESSIONAL SURVEYOR AND MAPPER OF RECORD IS:

 FDOT District 6
 Department of Survey & Mapping
 1000 N.W. 111 Avenue, Miami, Florida 33172
 TELEPHONE: (305) 470-5197
3. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED VV, VH, VVH) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS / ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
4. UTILITY AGENCY / OWNERS:

COMPANY	CONTACT	TELEPHONE NUMBERS
AT&T DISTRIBUTION	DINO FARUGIO	(954) 260-0615
COMCAST CABLE	RICARDO DAVIDSON	(754) 221-1322
CROWN CASTLE	DANNY HASKETT	(786) 610-7073
FLORIDA CITY GAS	GUSTAVO PENA	(786) 810-3618
FPL DISTRIBUTION	EDGAR AGUILAR	(954) 695-1768
CENTURY LINK	HEATHER BLACKBURN	(954) 695-1768
MCI/ VERIZON	JOHN HANSON	(786) 412-7878
MIAMI-DADE WASD	LAZARO GUERRA	(786) 552-4416
5. ARTICULATED CONCRETE BLOCK MATTRESS SYSTEM PER SFWMD SPECIFICATION 02277.
6. EXCAVATION & BACKFILLING PER SFWMD SPECIFICATION 02220.

REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ALEJANDRO A. LEON P.E. LICENSE NUMBER 74675 CHA CONSULTING, INC. 8935 NW 35TH LANE, SUITE 200 DORAL, FL 33172			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		6
								MIAMI-DADE	428327-3-72-01		



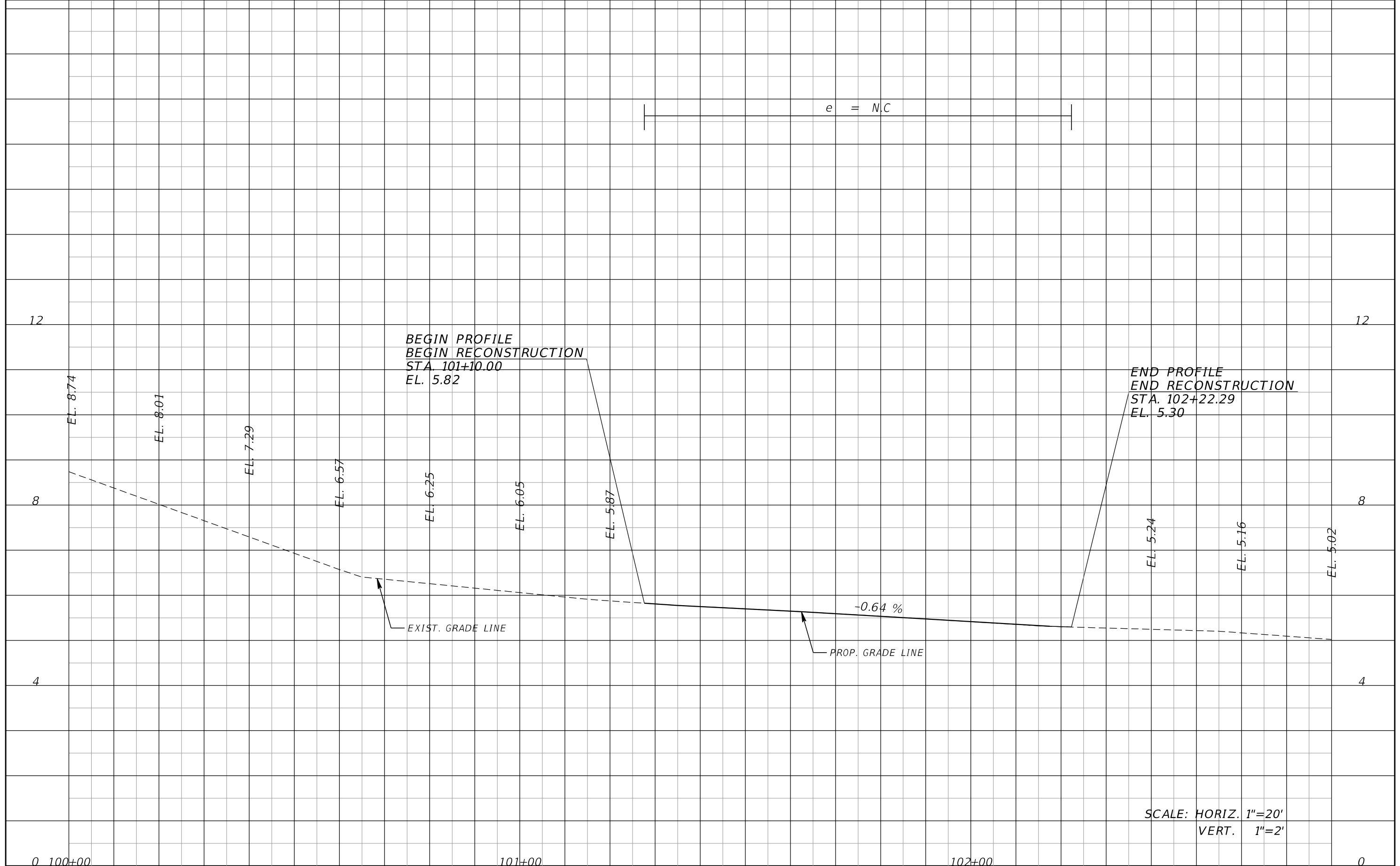
CURVE DATA NW27THAVE1
 PI STA. = 101+77.76
 Δ = 41° 46' 14" (LT)
 D = 50° 38' 25"
 T = 43.17
 L = 82.48
 R = 113.14
 PC STA. = 101+34.59
 PT STA. = 102+17.08
 e = N.C

LEGEND	
	TRAVEL LANE CONSTRUCTION
	SHOULDER CONSTRUCTION
	MISCELLANEOUS ASPHALT
	MILLING & RESURFACING
	SOD
	ARTICULATED CONCRETE BLOCK MAT
	INLET PROTECTION

REVISIONS				ENGINEER OF RECORD	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				ALEJANDRO A. LEON P.E. LICENSE NUMBER 74675 CHA CONSULTING, INC. 8935 NW 35TH LANE, SUITE 200 DORAL, FL 33172		MIAMI-DADE	428327-3-72-01	7

ROADWAY PLAN

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



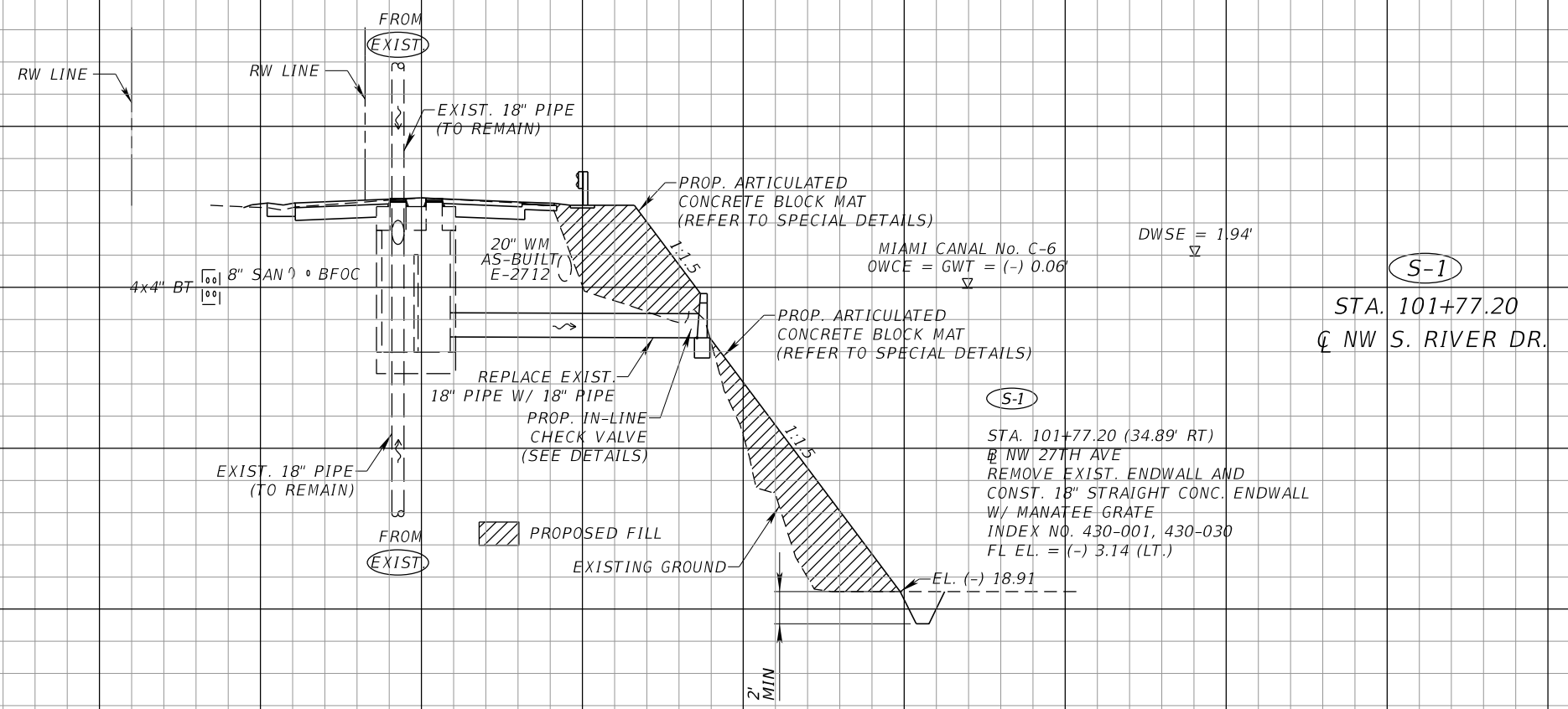
SCALE: HORIZ. 1"=20'
VERT. 1"=2'

0 100+00		101+00		102+00		0															
<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> </tbody> </table>				REVISIONS		DATE	DESCRIPTION			ENGINEER OF RECORD ALEJANDRO A. LEON P.E. LICENSE NUMBER 74675 CHA CONSULTING, INC. 8935 NW 35TH LANE, SUITE 200 DORAL, FL 33172		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION <table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> <tr> <td> </td> <td>MIAMI-DADE</td> <td>428327-3-72-01</td> </tr> </table>		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		MIAMI-DADE	428327-3-72-01	ROADWAY PROFILE SHEET NO. 8	
REVISIONS																					
DATE	DESCRIPTION																				
ROAD NO.	COUNTY	FINANCIAL PROJECT ID																			
	MIAMI-DADE	428327-3-72-01																			

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☐ NW S. RIVER DR.

10
5
0
-5
-10
-15



(S-1)
STA. 101+77.20
☐ NW S. RIVER DR.

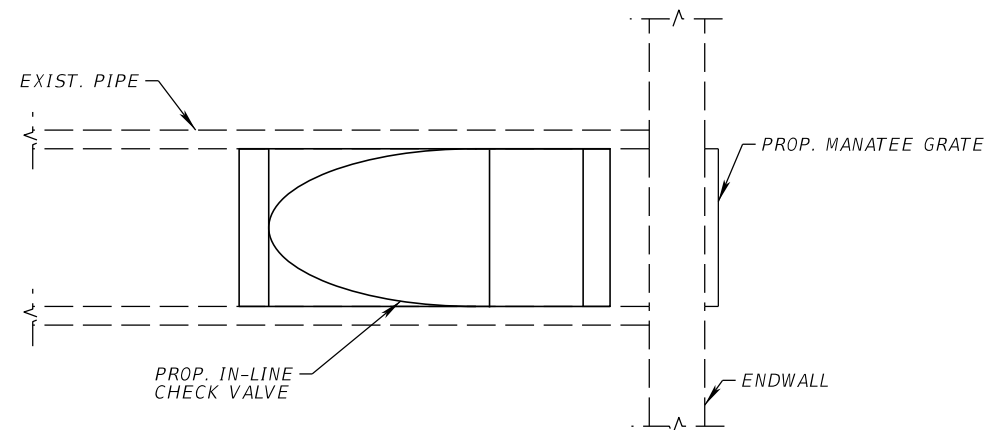
(S-1)
STA. 101+77.20 (34.89' RT)
☐ NW 27TH AVE
REMOVE EXIST. ENDWALL AND
CONST. 18" STRAIGHT CONC. ENDWALL
W/ MANATEE GRATE
INDEX NO. 430-001, 430-030
FL EL. = (-) 3.14 (LT.)

SCALE: 1" = 20 HORIZ.
1" = 10 VERT.

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

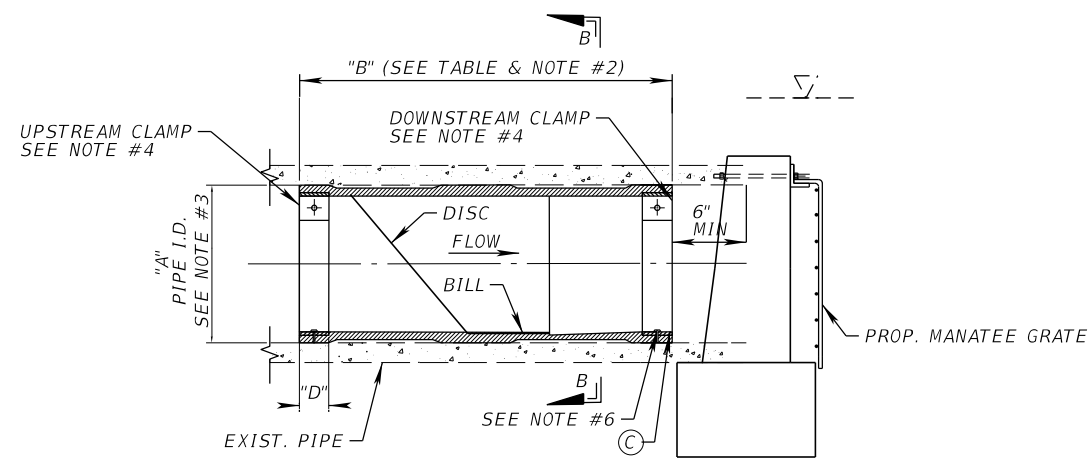
REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
			ANGELA M. BARON-RUIZ P.E. LICENSE NUMBER 76984 CHA CONSULTING, INC. 8935 NW 35TH LANE, SUITE 200 DORAL, FL 33172		MIAMI-DADE	428327-3-72-01	9
DRAINAGE STRUCTURES							

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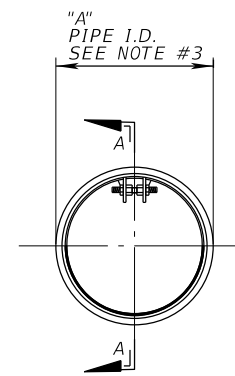


PLAN
(N.T.S.)

MATERIALS OF CONSTRUCTION (SEE NOTE #1)	BODY	FABRIC REINFORCED NEOPRENE		
	CLAMP	STAINLESS STEEL 304		
DIMENSION TABLE				
"A" NOMINAL PIPE SIZE I.D.	"B" O.A.L. (SEE NOTE #2)	"C" # CLAMPS	"D" CUFF DEPTH	BACK PRESSURE RATING (FEET)
18"	36.5"	1	8"	20



SECTION A-A
(N.T.S.)



SECTION B-B
(N.T.S.)

PAY ITEM NOTES:

1. ALL COST OF MATERIALS AND LABOR FOR THE IN-LINE CHECK VALVE SHALL BE UNDER PAY ITEM 430-880-01.

INSTALLATION PROCEDURES - DOWNSTREAM END EXPANDING RING

- FROM OUTFALL END - PLACE VALVE INTO PIPE
- PUSH IN UNTIL THE DOWNSTREAM CUFF/RING IS INSIDE THE PIPE
- CONFIRM PIPE IS COMPLETELY AROUND CHECKMATE
- EXPAND FACTORY FURNISHED RING - IT HAS A TURNBUCKLE LIKE MECHANISM FOR EXPANDING.
- EXPANDING RING HAS PILOT HOLES - DRILL THROUGH PILOT HOLE INTO PIPE.
INSTALL STAINLESS STEEL WEDGE ANCHORS TO LOCK CHECKMATE VALVE IN PLACE.

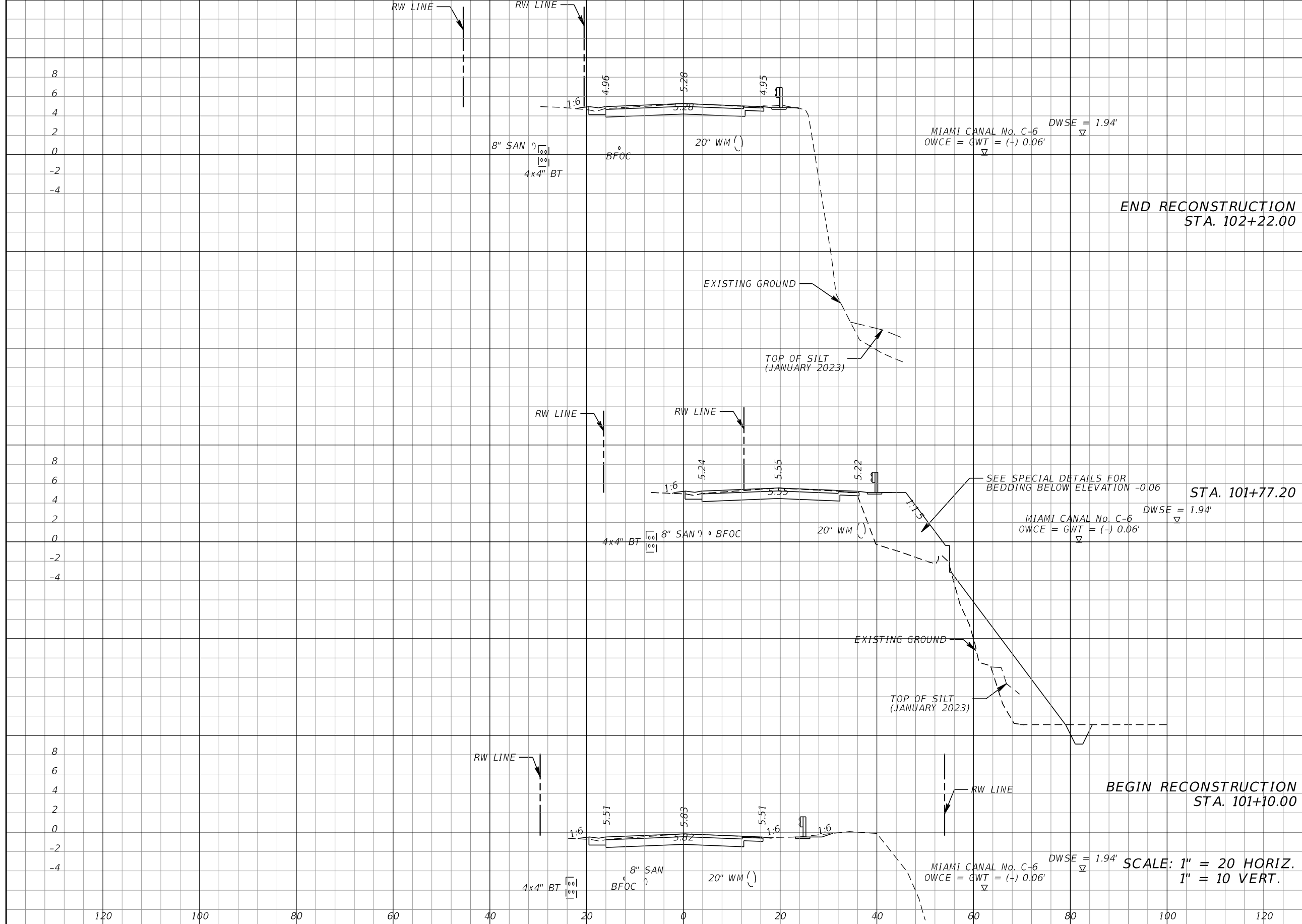
NOTES:

1. OTHER ELASTOMERS AND CLAMP MATERIALS ARE AVAILABLE.
2. SPECIFY UPSTREAM CLAMP OR DOWNSTREAM CLAMP
3. LOCATION OF CLAMP(S) IS BASED ON INSTALLATION ORIENTATION.
4. IT IS RECOMMENDED TO BOLD OR PIN MUDCAT TO PIPE A MINIMUM OF 2 PLACES WITH PREDRILLED HOLES IN CLAMP(S).
5. DETAILS AND INFORMATION INCLUDED IN THIS SHEET ARE BASED ON 'TIDEFLEX CHECKMATE' IN-LINE CHECK VALVE SPECIFICATIONS.
6. CONTRACTOR TO PROVIDE MANUFACTURER'S SPECIFICATIONS FOR CHECK VALVES OTHER THAN 'TIDEFLEX' BRAND THAT ARE TO BE USED IN THIS PROJECT.

**IN-LINE CHECK VALVE
N.T.S.**

REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SPECIAL DETAILS	SHEET NO. 11
DATE	DESCRIPTION	DATE	DESCRIPTION	ANGELA M. BARON-RUIZ P.E. LICENSE NUMBER 76984 CHA CONSULTING, INC. 8935 NW 35TH LANE, SUITE 200 DORAL, FL 33172			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
								MIAMI-DADE	428327-3-72-01		

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Regular		Exc.		Embankment	
A	V	A	V	A	V
67			7		
	135			310	
79			327		
	136			311	
67			8		

END RECONSTRUCTION
STA. 102+22.00

STA. 101+77.20

BEGIN RECONSTRUCTION
STA. 101+10.00

MIAMI CANAL No. C-6
OWCE = GWT = (+) 0.06'
DWSE = 1.94'

MIAMI CANAL No. C-6
OWCE = GWT = (-) 0.06'
DWSE = 1.94'

MIAMI CANAL No. C-6
OWCE = GWT = (+) 0.06'
DWSE = 1.94'

SCALE: 1" = 20 HORIZ.
1" = 10 VERT.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
ALEJANDRO A. LEON P.E.
LICENSE NUMBER 74675
CHA CONSULTING, INC.
8935 NW 35TH LANE, SUITE 200
DORAL, FL 33172

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	MIAMI-DADE	428327-3-72-01

CROSS SECTIONS

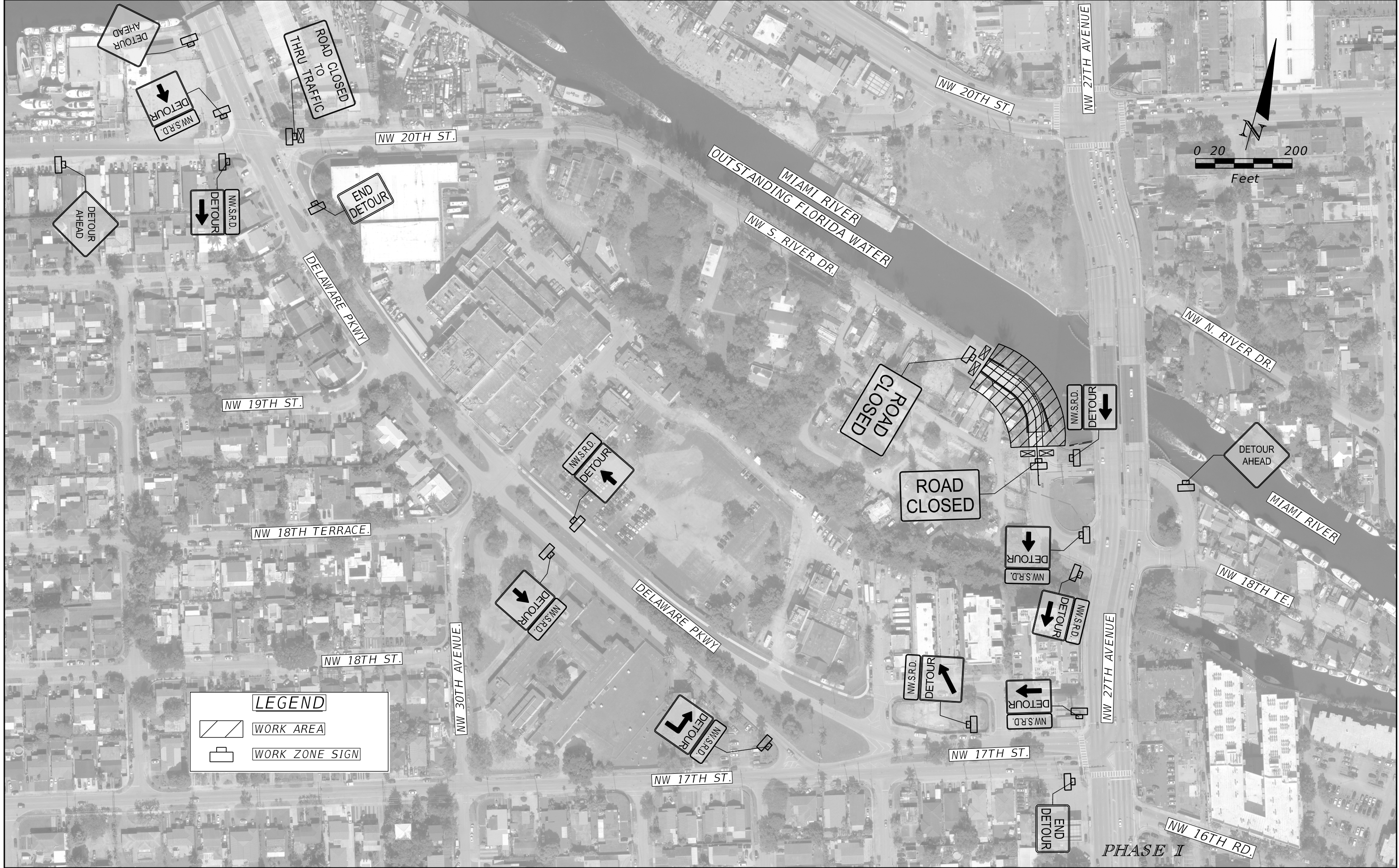
SHEET NO.
12

TRAFFIC CONTROL NOTES

GENERAL:

1. THE PERMANENT ROADWAY CLOSURE AND DETOUR MAP SHOWN IN PHASE I SHALL BE USED FOR ALL CONSTRUCTION OPERATIONS
2. NO CONSTRUCTION ACTIVITIES SHALL BE PERFORMED FROM: 8:00 PM TO 8:00 AM.

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TEMPORARY TRAFFIC CONTROL PLANS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ALEJANDRO A. LEON P.E. LICENSE NUMBER 74675 CHA CONSULTING, INC. 8935 NW 35TH LANE, SUITE 200 DORAL, FL 33172		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		13
							MIAMI-DADE	428327-3-72-01		



LEGEND	
	WORK AREA
	WORK ZONE SIGN

REVISIONS	
DATE	DESCRIPTION

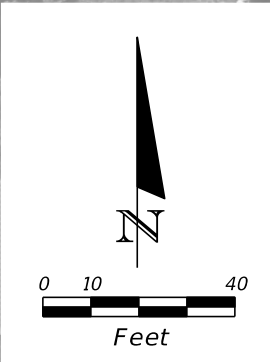
ENGINEER OF RECORD
 ALEJANDRO A. LEON P.E.
 LICENSE NUMBER 74675
 CHA CONSULTING, INC.
 8935 NW 35TH LANE, SUITE 200
 DORAL, FL 33172

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	MIAMI-DADE	428327-3-72-01

**TEMPORARY TRAFFIC
CONTROL PLANS**

SHEET NO.
14

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
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							MIAMI-DADE	428327-3-72-01	15

SUMMARY OF EARTHWORK					
PAY ITEM NO.	PAY ITEM DESCRIPTION	CY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
120 1	REGULAR EXCAVATION				
	NW. S RIVER DR., STA. 100+80.00 TO STA. 102+96.00	270.5			
	TOTAL REGULAR EXCAVATION	271			
120 6	EMBANKMENT				
	NW. S RIVER DR., STA. 100+80.00 TO STA. 102+96.00	620.8			
	TOTAL EMBANKMENT	621			

SUMMARY OF PAVEMENT														
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION						P	F	P	F		
0160 4	TYPE B STABILIZATION	101+10.00 to 102+96.00	NW S. RIVER DR.	LT/RT	279332			SY	554.3		527.2			
0285 701	OPTIONAL BASE, BASE GROUP 01	101+10.00 to 102+22.00	NW S. RIVER DR.	RT	334024			SY	57.0		57.0			
0285 708	OPTIONAL BASE, BASE GROUP 08	101+10.00 to 102+60.00	NW S. RIVER DR.	LT/RT	334025			SY	405.4		405.4			
0334 1 13	SUPERPAVE ASPHALT CONCRETE (TRAFFIC C)	100+80.00 to 102+96.00	NW S. RIVER DR.	LT/RT	334027			TN	77.9		83.9		(2")	
		102+00.00 to 102+60.00	NW S. RIVER DR.	LT	334029				6.0				(2")	
0327 70 6	MILLING EXISTING ASPHALT PAVEMENT, 1 1/2" AVERAGE DEEP.	100+80.00 to 101+10.00	NW S. RIVER DR.	LT/RT	346672			SY	179.3		358.6			
		102+22.00 to 102+96.00	NW S. RIVER DR.	LT/RT	346673				179.3					
0337 7 83	ASPHALTIC CONCRETE FRICTION COURSE, TRAFFIC C, FC-12.5 (PG 76-22)	100+80.00 to 102+96.00	NW S. RIVER DR.	LT/RT	334026			TN	67.4		67.4			

SUMMARY OF MISCELLANEOUS ASPHALT PAVEMENT									
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	THICK (IN)	UNDER GUARDRAIL		DESIGN NOTES	CONSTRUCTION REMARKS
						0339	1		
STA. TO STA.						P	F		
101+10.00 to 102+61.58	RT	328753			2	9.8		NW S. RIVER DR.	
					TOTAL:	9.8			

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES	SHEET NO.
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							MIAMI-DADE	428327-3-72-01		SQ-2

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SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES										
LOCATION			SIDE	AREA ID	FLOATING TURBIDITY BARRIER		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.					0104 11		0104 18			
					LF		EA			
	TO			P	F	P	F			
101+13.14		102+64.30	RT						NW S. RIVER DR.	
		102+73.00	LT			1			NW S. RIVER DR.	
SUB-TOTAL:				204.0		1				
TOTAL:				204		1				

SUMMARY OF MISCELLANEOUS DRAINAGE ITEMS												
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION			SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.					P	F	P	F		
			TO									
430-880-01	FLAP GATES, 0 - 24"			101+77.20	RT	EA	1.0		1		NW S. RIVER DR.	
430-94.1	DESILTING PIPE, 0 - 24"	101+77.67	TO	102+70.61	LT	LF	90.0		269		NW S. RIVER DR.	
		100+00.00	TO	101+74.37	LT	LF	179.0					
530-4-9	ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, THICKNESS 9"	101+52.32	TO	102+00.55	RT	SY	133.0		133		NW S. RIVER DR.	

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				ANGELA M. BARON-RUIZ P.E. LICENSE NUMBER 76984 CHA CONSULTING, INC. 8935 NW 35TH LANE, SUITE 200 DORAL, FL 33172			MIAMI-DADE	428327-3-72-01		SQ-4

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.