

PLANS FOR PROPOSED  
IMPROVEMENTS TO  
OLD CUTLER ROAD

AT SW 136 STREET AND SW 67 AVENUE  
MIAMI-DADE COUNTY PROJECT NO. 20200118  
ROAD IMPACT FEE (RIF)

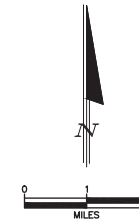
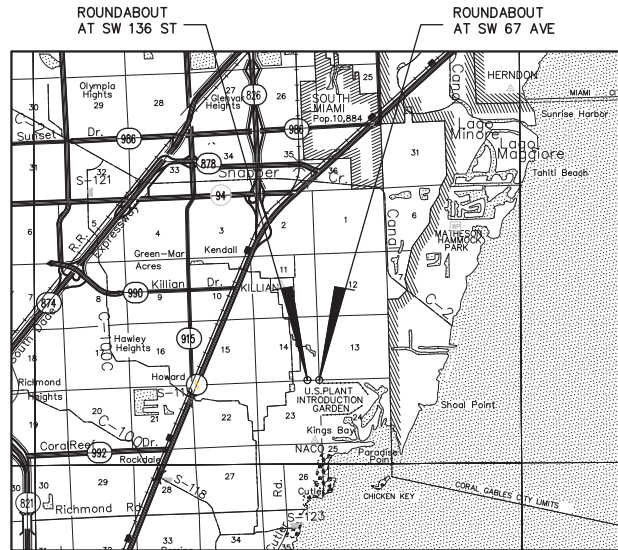
NOTE:  
ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN  
SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

INDEX OF SHEETS

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STANDARD INDEX DRAWINGS

SHT. No.	INDEX. No.	SHEET DESCRIPTION
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17	3-E	DETAIL OF EXFILTRATION DRAIN WITH PERFORATED PIPE
18	DCI-02	CURB INLET TYPES 5-6
19	DSO-01	SUPPLEMENTAL DETAILS FOR MANHOLES & INLETS
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33	GEU-01	EMBANKMENT UTILIZATION DETAIL
34	GRC-01-1	MISC. RADWAY CONST. DETAILS (2 SHEETS)
35-36	SM-1 & SM1-02	SUPPLEMENTAL DETAILS FOR MANHOLES & INLETS
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40	5-F	INLET TOP TYPE 11
41	DS-2.2	PRECAST CATCH BASIN (D-3)
42	400-011	FDOT GRAVITY WALL
43-47	515-070	FDOT PIPE GUIDERAIL (ALUMINUM)
48	715-002	FDOT STANDARD ALUMINUM POLE (SHEET 4 OF 8 SHEETS)



LENGTH OF JOB		
	LIN. FT.	MILES
ROADWAY	4,500	0.843
BRIDGE		
GROSS LENGTH OF JOB	4,500	0.843
EXCEPTIONS		
NET LENGTH OF JOB	4,500	0.843

BY  
**MIAMI-DADE COUNTY**  
MIAMI-DADE COUNTY  
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
HIGHWAY DIVISION

STEPHEN P. CLARK CENTER  
111 NW 1 ST  
MIAMI, FLORIDA 33128

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT STANDARDS AND SPECIFICATIONS PARTS 1, 2 AND 3. THE MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS. THE FLORIDA DEPARTMENT OF TRANSPORTATION FY 2019-20 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE FLORIDA DEPARTMENT OF TRANSPORTATION JULY 2019 STANDARD SPECIFICATIONS EBOOK, AS AMENDED BY CONTRACT DOCUMENTS.

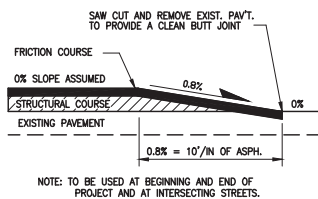
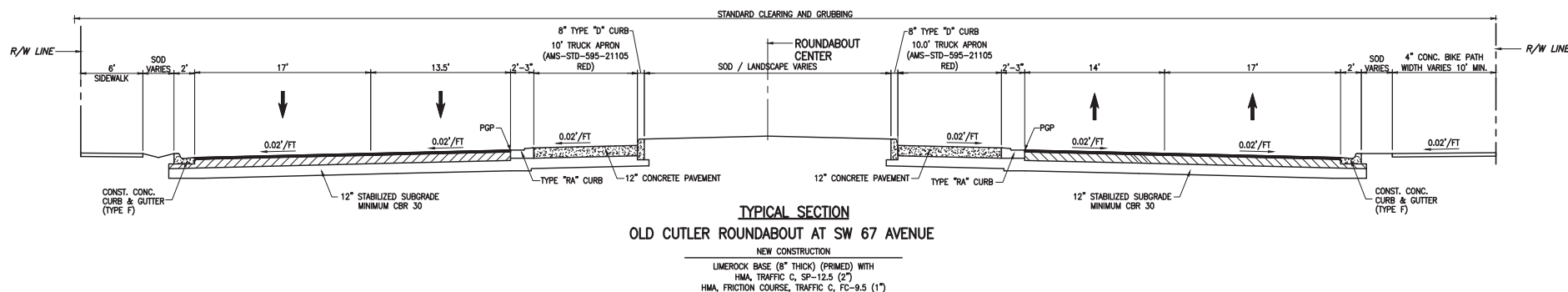
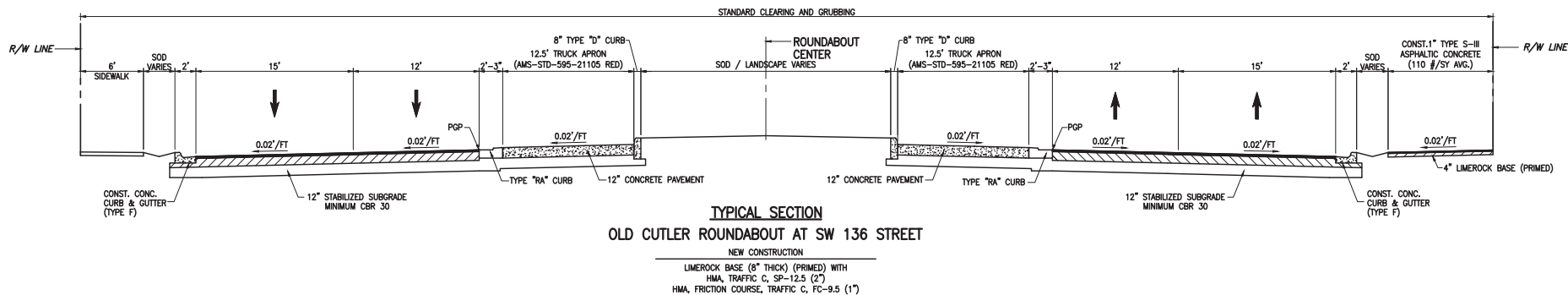


Call 811 or visit [www.sunshine811.com](http://www.sunshine811.com) two full business days before digging to have buried facilities located and marked.  
Check positive response codes before you dig!

ENGINEER OF RECORD:

LEANDRO J. OÑA, P.E.  
FLORIDA REGISTRATION P.E. No. 25588

APPROVED	COUNTY ENGINEER
RECOMMENDED	ASSISTANT DIRECTOR
SUBMITTED	HIGHWAY DIVISION
PROPOSED	CHECK L.O.
DESIGN A.S.	DRAWN J.M.
DATE	SHEET 1 OF 69



**FEATHERING DETAIL**  
N.T.S.

**TYPICAL SECTION NOTES:**

1. ALL EXISTING LIMEROCK BASE THAT IS REMOVED IS TO BE INCORPORATED INTO THE STABILIZED PORTION OF THE SUBGRADE AND IS NOT TO BE USED IN CONSTRUCTION OF THE PROPOSED BASE.
2. EXTEND LIMEROCK BASE (8" THICK) 6" OUTSIDE EDGES OF PAVEMENT AT ALL CONNECTIONS AND INTERSECTIONS TO COUNTY STREETS AND ROADS.
3. STABILIZE ALL TURNOUTS AND INTERSECTIONS TO COUNTY ROADS AND STREETS TO A DEPTH OF 12" (MIN CBR OF 30) AND 12" OUTSIDE EDGES OF PAVEMENT, 6" BACK OF CURB.
4. DROP CURB & DRIVEWAY CONNECTIONS SHALL BE PROVIDED FOR ACCESS TO ALL PRIVATE PROPERTIES ADJACENT TO THE PROJECT CONSTRUCTION. FINAL LOCATION OF DRIVEWAY ACCESS TO BE DETERMINED BY THE ENGINEER.
5. COST OF LIMEROCK BASE BENEATH CURB & GUTTER IS TO BE INCLUDED IN COST OF C & G (ITEM 520-1-10)

DESIGN SPEED 35 MPH

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

NAME	DATE	NAME	DATE
DESIGNED BY A.S.	2/14/2022	DRAWN BY J.M.	2/14/2022
CHECKED BY L.A.O.	2/14/2022	CHECKED BY L.A.O.	2/14/2022

MIAMI-DADE COUNTY	DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY DIVISION STEPHEN P. CLARK, CENTER 100 N.W. 1ST MIAMI, FLORIDA 33138
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**TYPICAL SECTION**

P:\Miami\Planning\Highways\Old Cutler Road - Roundabout\Yema (CAD & PDF files)\CD\03 SUMM-QNTS.dwg Feb 16, 2022 - 11:00am E210683

### SUMMARY OF QUANTITIES

PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY
102-1A	MAINTENANCE OF TRAFFIC	L.S.	1
102-80A	WORK ZONE SIGNS (TEMPORARY, TYPE "B")	E.A./DAY	
102-71-14	CONCRETE BARRIER - CLASS K (TEMPORARY) (F & I)	L.F.	
102-71-24	CONCRETE BARRIER - TEMP. CLASS K (RELOCATION)	L.F.	
102-74-1	BARRICADES (TEMPORARY, 1, II, VP & DRUM)	E.A./DAY	
102-74-2	BARRICADES (TEMPORARY, TYPE III, 4')	E.A./DAY	
102-76A	FLASHING ARROW BOARD (TEMPORARY, MULTIMODE) / ADVANCE WARNING ARROW PANEL	E.A./DAY	
102-77	HIGH INTENSITY FLASHING LIGHTS (TEMPORARY TYPE "B")	E.A./DAY	
102-81	VEHICULAR IMPACT ATTENUATOR (INCLUDING RELOCATION & RESET) (TO BE USED WHEN REQUIRED)	E.A.	
102-99	VARIABLE MESSAGE SIGN (TEMPORARY)	E.A./DAY	
102-91-1	PAVEMENT MARKING TEMPORARY (SOLID) (ANY WIDTH) (YELLOW OR WHITE) (TAPE OR PAINT)	L.F.	
102-91	PAVEMENT MARKING TEMPORARY (SKIP) (ANY WIDTH) (YELLOW OR WHITE) (TAPE OR PAINT) (10' STRIP, 30' SPACE)	L.F.	
104-10-3	SEDIMENT BARRIERS	L.F.	360
104-18	INLET PROTECTION SYSTEM	EACH	26
110-1-1B	CLEARING AND GRUBBING	L.S./AC	1/6.87
110-4-10	REMOVAL OF EXISTING CONCRETE	S.Y.	1043
110-7-1B	RELOCATE MAN BOX	E.A.	3
120-1	REGULAR EXCAVATION	C.Y.	7,922
120-6	EMBANKMENT	C.Y.	1,568
121-70-2	FLOWABLE FILL	C.Y.	
160-4	TYPE "B" STABILIZATION (12") (MIN. C.B.R. OF 30)	S.Y.	17,612
200-1-3	LIMEROCK BASE (4") (PRIMED)	S.Y.	1,737
200-1-10	LIMEROCK BASE (8") (PRIMED)	S.Y.	15,875
327-70-01	MILLING EXISTING ASPHALT PAVEMENT (1" AVG. DEPTH)	S.Y.	383
334-2-11	HOT MIX ASPHALT (TRAFFIC A), SP 9.5, (1")	TON	127.5
334-2-13-2	HOT MIX ASPHALT (TRAFFIC C), SP 12.5, (2")	TON	2,154.2
337-8-32	HOT MIX ASPHALT FRICTION COURSE (TRAFFIC C), FC-9.5 (1") RUBBER	TON	1,184.8
350-30-13	CONCRETE PAVEMENT FOR ROUNDABOUT APRON, 12" DEPTH	S.Y.	649
400-0-11	CONCRETE CLASS NS RETAINING WALL	C.Y.	24.5
400-1-15	CLASS I CONCRETE (MISCELLANEOUS) (COLLARS, PIPE PLUGS, STRUCTURE PLUGS ETC.)	C.Y.	
415-1-3	REINFORCED STEEL RETAINING WALL	LB.	571
425-1-321	INLETS (CURB) TYPE P-2 (<10')	EACH	2
425-1-351	INLETS (CURB) TYPE P-5 (<10')	EACH	6
425-1-361	INLETS (CURB) TYPE P-6 (<10')	EACH	8
425-1-204A	INLETS (CURB) TYPE 9 (<10')	EACH	1
425-1-903A	INLETS (CURB) TYPE P-11 (<10')	EACH	6
425-1-400A	INLETS (CURB) TYPE D-3	EACH	1
425-3-492	MANHOLE (Type P-7T) (> 10')	EACH	1
425-6	ADJUST EXISTING VALVE BOXES	EACH	18
425-73	ADJUST AND/OR RELOCATE EXISTING FIRE HYDRANTS	EACH	2
430-175-115	PIPE CULVERT OPTIONAL MATERIAL, ROUND SHAPE - 15" DIAMETER	L.F.	131
430-175-118	PIPE CULVERT OPTIONAL MATERIAL, ROUND SHAPE - 18" DIAMETER	L.F.	2,050
430-175-124	PIPE CULVERT OPTIONAL MATERIAL, ROUND SHAPE - 24" DIAMETER	L.F.	
443-70-4-3	FRENCH DRAIN (24" DIAMETER PERFORATED PIPE; TRENCH DEPTH 15 FT. BLS)	L.F.	1,190
515-1-2A	PIPE HANDRAIL-GUARDRAIL, ALUMINUM	L.F.	210
520-1-10B	CONCRETE CURB AND GUTTER (TYPE "F")	L.F.	5,333
520-2-12	CONCRETE CURB (TYPE "D")	L.F.	431
520-1-7A	CONCRETE MEDIAN CURB (TYPE "E")	L.F.	1,245
520-2-8A	CONCRETE CURB AND GUTTER (TYPE "BA")	L.F.	617
522-1(1)	CONCRETE SIDEWALK 4" THICK, 3000 PSI CONCRETE AT 28 DAYS (INCLUDES COST OF PED RAMPS & SIDEWALK CURBS)	S.Y.	2,099
522-2(1)	CONCRETE SIDEWALK (6" THICK) (INCLUDING DRIVEWAYS)	S.Y.	174
526-70-2F	BRICK DRIVEWAY	S.Y.	211
527-2	CURB RAMP DETECTABLE WARNING SURFACE	S.F.	855
575-1-1	SODDING (PENSACOLA BAHIA OR MATCH EXISTING) (INCLUDES WATERING AND MAINTENANCE)	S.Y.	14,432
580-3	TREE PROTECTION BARRICADES	L.F.	6,750
580-322-2A	TREE REMOVAL AND DISPOSAL (6" TO 12" DIA.)	EACH	40
580-322-4A	TREE REMOVAL AND DISPOSAL (12" TO 24" DIA.)	EACH	5
580-322-5A	TREE REMOVAL AND DISPOSAL (24" TO 36" DIA.)	EACH	21
580-322-6	TREE REMOVAL AND DISPOSAL (36" TO 55" DIA.)	EACH	2
639-1-620	ELECTRICAL POWER SERVICE, REMOVE COMPLETE SERVICE	AS	2
649-26-3	STEEL MAST ARM ASSEMBLY, REMOVE, SHALLOW FOUNDATION, BOLT ON ATTACHMENT	EA	7
670-5-600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS	2

\* ADDITIONAL QUANTITIES ARE CONTINGENT, TO BE USED AS DIRECTED BY THE ENGINEER AND HAVE BEEN INCLUDED IN THE TOTAL QUANTITY AMOUNT SHOWN ON THE SUMMARY OF PAY ITEMS.

MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
HIGHWAY DIVISION  
OLD CUTLER ROAD ROUNDABOUT  
AT SW 136 STREET AND AT SW 67 AVENUE  
PROJECT NO. 20220118 SHEET 3 OF 69

### PAY ITEM NOTES

- 102-1A TO BE ACCOMPLISHED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION INDEX 102 SERIES, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION (ANSI D6 1-1-1978), PUBLIC WORKS MANUAL OF METROPOLITAN DADE COUNTY, AND THE LATEST REVISIONS OF THE AFORE MENTIONED MANUALS. INCLUDES THE COST OF FURNISHING, INSTALLING, MAINTAINING, AND REMOVING ALL ITEMS OF MAINTENANCE OF TRAFFIC NOT PAID FOR UNDER SEPARATE ITEMS INCLUDING BUT NOT LIMITED TO SIGNS, BARRICADES, FLASHING LIGHTS, TEMPORARY PAVEMENT, TEMPORARY PAVEMENT MARKINGS, TRAFFIC SIGNAL MODIFICATION FOR TRAFFIC CONTROL, ETC.
- 110-1-1B INCLUDES REMOVAL OF EXISTING PAVEMENT, CONCRETE SIDEWALK, DRIVEWAYS, CURB AND GUTTER, EXISTING STORM SEWERS (DRAINAGE STRUCTURES, PIPES, FRENCH DRAIN AND/OR SLAB COVER TRENCHES. COST OF REMOVAL, DISPOSAL, BACKFILLING AND COMPACTING IS ALSO INCLUDED), MISCELLANEOUS CONCRETE, VEGETATION, TREES UNDER 6" DIA. AND DEBRIS TO BE DISPOSED OF IN LEGAL AREAS PROVIDED BY THE CONTRACTOR. INCLUDES THE COST OF CLEANING-OUT ALL EXISTING DRAINAGE STRUCTURES WHICH ARE TO REMAIN WITHIN THE LIMITS OF CONSTRUCTION.
- 120-1 THESE ARE ESTIMATED QUANTITIES AND MAY BE INCREASED OR DECREASED BY THE ENGINEER.
- 200-1-10 INCLUDES DRIVEWAYS.
- 339-2 TEMPORARY ASPHALT SHALL BE MAINTAINED IN GOOD CONDITIONS AT ALL TIMES.
- 400-1-15 THIS ITEM IS CONTINGENT UPON FIELD CONDITIONS AND MAY BE INCREASED DECREASED OR ELIMINATED BY THE ENGINEER.
- 430 FOR PIPE ALTERNATIVES, SEE SPECIAL PROVISIONS AND BID DOCUMENTS.
- 443-70-4-3 INCLUDES THE COST OF EXCAVATION TO PLAN ELEVATION, PERFORATED PIPE, PEACOCK BALLAST ROCK, PLASTIC FILTER FABRIC AND BACKFILLING WITH SELECT FILL (SEE DETAIL OF EXFILTRATION DRAIN TO DETERMINE NON-PERFORATED PIPE QUANTITY) AND ALL APPLICABLE ITEMS REQUIRED TO CONSTRUCT EXFILTRATION DRAIN.
- 520-1-10B INCLUDES DROP CURB AT DRIVEWAYS AND 3 FT OF CURB ENDING AS DIRECTED BY THE ENGINEER. ALSO INCLUDES COST OF LIMEROCK
- 522-1(1) INCLUDES THE COST OF PEDESTRIAN RAMPS.
- 522-2(1) ESTIMATED QUANTITY FOR DRIVEWAYS TO BE CONSTRUCTED AT LOCATIONS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
- 575-1-1 INCLUDES SOD TO BE USED IN THE RESTORATION OF LAWNS AND MAY BE INCREASED OR DECREASED AS DIRECTED BY THE ENGINEER. PENSACOLA OR TO MATCH EXISTING SOD.

SUMMARY OF EARTHWORK		
ITEM	QUANTITY	
REGULAR EXCAVATION	7,922	C.Y.
SUBSOIL EXCAVATION	-	C.Y.
FILL	1,568	C.Y.
EMBANKMENT (SUBSOIL EXCAVATION) + FILL	-	C.Y.

- SUMMARY OF EARTHWORK IS BASED ON THE CONSTRUCTION OF LIMEROCK BASE 4" AND 8" THICK AS INDICATED ON THE CROSS SECTIONS.
- ANY EXCAVATED MATERIAL, IF UNSUITABLE, SHALL NOT BE USED IN THE CONSTRUCTION OF THE EMBANKMENT.
- EXCESS MATERIAL TO BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY HIM. NO SEPARATE PAYMENT WILL BE MADE FOR THIS ITEM.
- AN ESTIMATED 8181 C.Y. OF UNCLASSIFIED MATERIAL IS TO BE DISPLACED BY THE STORM SEWER SYSTEM WHICH INCLUDES THE EXFILTRATION DRAIN AND IS NOT INCLUDED IN THE SUMMARY OF EARTHWORK QUANTITIES. THIS MATERIAL IS TO BE UTILIZED ON THE PROJECT AS DIRECTED BY THE ENGINEER. ANY EXCESS OF MATERIAL IS TO BE DISPOSED OF IN LEGAL AREAS AS PROVIDED BY THE CONTRACTOR.

R E V I S I O N S			
DATE	BY	DESCRIPTION	DATE

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	A.S.	2/14/2022		J.M.	2/14/2022
CHECKED BY	L.A.O.	2/14/2022	CHECKED BY	L.A.O.	2/14/2022
SUPERVISED BY:					

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY DIVISION	
MIAMI-DADE COUNTY	
STEPHEN P. CLARK, CHIEF ENGINEER MIAMI, FLORIDA 33138	

### SUMMARY OF QUANTITIES

P:\MyRunningHighway\Yours (C:\B & P\B) \C\2014 0816-NOTES.dwg Feb 15, 2022 - 2:43pm E210983

GENERAL NOTES

1. B.M. DATA IS NATIONAL GEODETIC VERTICAL DATUM OF 1929 (N.G.V.D.-29). ANY N.G.V.D. BENCH MARK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED AND PROPERLY REFERENCED BY A REGISTERED-LAND SURVEYOR IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS PRIOR TO BEGINNING WORK AT THE SITE. IF ANY MONUMENT IS IN DANGER OF DAMAGE, THE PROJECT ENGINEER SHALL NOTIFY THE BUREAU OF SURVEYING AND MAPPING, FLORIDA DIVISION OF STATE LANDS, 3900 COMMONWEALTH BLVD., MAIL STATION 100, TALLAHASSEE, FLORIDA 32399-3000 TELEPHONE (850) 245-2118.
2. ALL PUBLIC LAND CORNERS AND MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED BY THE CONTRACTOR AS FOLLOWS: CORNERS AND MONUMENTS IN CONFLICT WITH THE WORK AND IN DANGER OF BEING DAMAGED, DESTROYED, OR COVERED SHALL BE PROPERLY REFERENCED BY A REGISTERED-LAND SURVEYOR IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS PRIOR TO BEGINNING WORK AT THE SITE. THE CONTRACTOR SHALL RETAIN THE LAND SURVEYOR TO REFERENCE, AND RESTORE UPON COMPLETION OF THE WORK, ALL SUCH CORNERS AND MONUMENTS AND SHALL FURNISH TO MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT A SIGNED AND SEALED COPY OF THE LAND SURVEYOR'S REFERENCE DRAWING.
3. ALL STATIONS AND OFFSETS REFER TO [BASELINE] OF CONSTRUCTION, UNLESS OTHERWISE STATED.
4. ALL GRADES SHOWN IN PLAN ARE FINISHED GRADES.
5. THE CONTRACTOR SHALL PAINT ALL STATIONS WITH STENCILED NUMBERS ON THE FACE OF CURB:  
A. FROM THE BEGINNING OF THE PROJECT WHERE THE CURB IS TO REMAIN.  
B. AT NEW CURB NOT LATER THAN 72 HOURS AFTER BEING POURED.  
C. WHERE CURB DOES NOT EXIST AND SHALL NOT BE CONSTRUCTED.  
THE CONTRACTOR SHALL MAINTAIN STATIONING WITH SURVEYING STAKES.  
CONTRACTOR SHALL MAINTAIN THE STATION MARKS VISIBLE UNTIL FINAL INSPECTION.
6. ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT, AND ANY OTHER STATE OR LOCAL AGENCY WITH JURISDICTION. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
8. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE EPA AND THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES).
9. THE LOCATION AND SIZE OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION AND SHOULD BE CONSIDERED APPROXIMATE ONLY. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY PRE-TRENCHING IN COORDINATION WITH ALL UTILITY COMPANIES, PRIOR TO BEGINNING ANY CONSTRUCTION OPERATION. ANY AND ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS MUST BE RESOLVED BY THE ENGINEER AND THE OWNER. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
10. [BASELINE CONTROL SURVEY CONDUCTED BY MIAMI-DADE COUNTY.] PLEASE CALL MR. JEFFREY D. WHITMORE (305) 375-2657 CONCERNING SURVEY RELATED QUESTIONS.
11. EXISTING TOPOGRAPHIC INFORMATION WAS OBTAINED FROM SURVEY PREPARED BY MIAMI-DADE COUNTY.
12. CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE-CALL AT 1-(800)-432-4770 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES. A CONTRACTOR'S REPRESENTATIVE MUST BE PRESENT WHEN UTILITY COMPANIES LOCATE THEIR FACILITIES.
13. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD AND UNDERGROUND UTILITIES.
14. MIAMI-DADE WATER AND SEWER DEPARTMENT REQUIRES THAT ACCESS TO ALL WATER AND SEWER VALVES, SANITARY MANHOLES, AND OTHER CONTROL MECHANISMS BE MAINTAINED THROUGHOUT CONSTRUCTION IN THE EVENT OF AN EMERGENCY TO ENSURE THE PUBLIC HEALTH AND SAFETY. COVERING VALVE BOXES AND MANHOLES CAN BE CONSIDERED UNAUTHORIZED OBSTRUCTION OF AND TAMPERING WITH DEPARTMENT UTILITIES. ALL REQUESTS FOR UTILITY ADJUSTMENTS MUST BE MADE IN WRITING AT LEAST TWO (2) WEEKS IN ADVANCE. FOR MANHOLE AND VALVES, CONTACT THE CONSTRUCTION MANAGEMENT SECTION, PUMP STATIONS UNIT, 3071 SW 38 AVENUE, FAX NO. 305-668-3626. THE DEPARTMENT WILL MAKE ONE FINAL AND PERMANENT ADJUSTMENT AT NO COST TO THE REQUESTING AGENCY. FOR THE ADJUSTMENT OF WATER METERS, CONTACT THE CHIEF OF METER OPERATIONS AND MAINTENANCE, FAX NO. 305-545-3482. FOR ANY FIRE HYDRANTS THAT ARE DAMAGED OR BUMPED DURING CONSTRUCTION, CONTACT THE MIWASD HYDRANT SHOP AT 305-805-4575 BEFORE POURING CONCRETE FOR THE SIDEWALK. IN THE EVENT OF A WATER OR SEWER EMERGENCY, CONTACT MIAMI DADE WATER AND SEWER DEPARTMENT AT 305-274-9272. THIS LINE IS OPEN 24 HOURS, 7 DAYS A WEEK.
15. KNOWN UTILITY COMPANIES IN THE PROJECT LIMITS INCLUDE, BUT ARE NOT LIMITED TO:  
HOMESTEAD ELECTRIC MANUEL OD (305) 224-4721  
MIAMI-DADE WASD PATRIC CHONG (786) 552-4416  
FLORIDA GAS TRANSMISSION CO JOSEPH SANCHEZ (407) 838-7171  
F&L DISTRIBUTION JOHN GRALDO (305) 442-5172  
AT&T HENRY URENA (305) 913-1408  
VERIZON MICHOI INVESTIGATIONS (469) 886-4091  
COMCAST LEONARD MAXWELL (754) 221-125
16. THE CONTRACTOR IS ADVISED THAT PROPERTIES ADJACENT TO THE PROJECT HAVE ELECTRIC, TELEPHONE, GAS, WATER, AND/OR SEWER SERVICE LATERALS WHICH MAY NOT BE SHOWN IN PLANS. THE CONTRACTOR MUST REQUEST THE LOCATION OF THESE LATERAL SERVICES FROM THE UTILITY COMPANIES. THE ADDITIONAL COST OF EXCAVATING, INSTALLING, BACKFILLING, AND COMPACTING AROUND THESE LATERAL SERVICES MUST BE INCLUDED IN THE BID RELATED ITEM FOR THE WORK BEING DONE.
17. THE CONTRACTOR MUST MAINTAIN CLEARANCES AS REQUIRED BY OSHA WHILE WORKING IN THE PROXIMITY OF FPL'S HIGH-VOLTAGE TRANSMISSION CONDUCTORS AND LOW VOLTAGE DISTRIBUTION CONDUCTORS.
18. THE ROADWAY CONTRACTOR MUST MAINTAIN ACCESS TO ALL FPL FACILITIES AT ALL TIMES DURING HIS CONSTRUCTION.
19. ALL EXISTING FACILITIES MUST REMAIN ENERGIZED DURING ROAD CONSTRUCTION.
20. ANY DAMAGE TO PUBLIC OR PRIVATE PROPERTY SHALL BE RESTORED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
21. ANY ENCROACHMENT WITHIN THE LIMITS OF CONSTRUCTION SHALL BE RELOCATED OR PROTECTED BY THE ADJACENT PROPERTY OWNER AT THEIR EXPENSE.
22. CLEARING AND GRUBBING, GRADING AND OTHER INCIDENTAL WORK NECESSARY FOR HARMONIZATION OUTSIDE R/W SHALL BE INCLUDED IN RELATED BID ITEMS.
23. ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RE-SOODED. COST TO BE INCLUDED UNDER PAY ITEM 575-1-1.

24. THE CONTRACTOR SHOULD TAKE SPECIAL NOTE OF SOIL CONDITIONS THROUGHOUT THIS PROJECT. ANY SPECIAL SHORING, SHEETING OR OTHER PROCEDURES NECESSARY TO PROTECT ADJACENT PROPERTY, PUBLIC OR PRIVATE, DURING THE EXCAVATION OF SUBSOIL MATERIAL AND EXPLORATION TRENCH, OR FILLING OF ANY AREA, OR FOR ANY OPERATION DURING CONSTRUCTION, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
25. IF SHEETING, SHORING, OR DEWATERING, INCLUDING WELL POINTS ARE NECESSARY, THE CONTRACTOR MUST MONITOR AND CONTROL ALL WORK THAT MAY CAUSE CRACKING TO ANY ADJACENT BUILDING, STRUCTURE, OR PROPERTY AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY THESE OPERATIONS. COST OF SHEETING, SHORING, OR DEWATERING SHALL BE INCLUDED IN THE RELATED BID ITEM FOR THE WORK BEING DONE.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE DEWATERING PERMIT. COST OF THE PERMIT AND DEWATERING SHALL BE INCLUDED IN THE RELATED BID ITEM FOR THE WORK BEING DONE. (NOT APPLICABLE TO THIS PROJECT)
27. THE CONTRACTOR WILL RESTRICT PERSONNEL, THE USE OF EQUIPMENT, AND THE STORAGE OF MATERIALS TO AREAS WITHIN THE LIMITS OF CONSTRUCTION AND DESIGNATED STAGING AREA.
28. EXPLORATORY OR PRE-TRENCHING IN THE ALIGNMENT AND GRADE OF PROPOSED PIPES STRUCTURES, FRENCH DRAINS, CONDUITS, POLE FOUNDATIONS AND/OR SUB-GRADE SHALL BE PERFORMED SEVEN DAYS IN ADVANCE OF ITS CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE UNDERGROUND UTILITY OWNERS AND THE DEPARTMENT WITH IMMEDIATE NOTIFICATION OF ANY CONFLICT WITH PROPOSED CONSTRUCTION. THIS NOTIFICATION SHALL PROVIDE SURVEY INFORMATION ABOUT EXISTING UTILITY ALIGNMENT, GRADE AND POSSIBLE CONFLICTS. PAYMENT FOR EXPLORATORY OR PRE-TRENCHING, SURVEY AND BACKFILLING SHALL BE INCLUDED IN THE COST OF THE RELATED BID ITEM FOR THE WORK BEING DONE.
29. ALL DITCH EXCAVATIONS SHALL BE PERFORMED IN FULL COMPLIANCE WITH THE PROVISIONS OF THE TRENCH SAFETY ACT.
30. ALL EXCESS MATERIAL, AS DESIGNATED BY THE ENGINEER, IS TO BE DISPOSED BY THE CONTRACTOR IN AREAS PROVIDED BY HIM WITHIN 72 HOURS OF BEING DEPOSITED IN THE CONSTRUCTION AREA AND AT THE CONTRACTOR'S EXPENSE.
31. ALL DISPOSAL OF MATERIALS, RUBBISH, AND DEBRIS SHALL BE MADE AT A LEGAL DISPOSAL SITE OR BY OTHER PRIOR APPROVED MANNER. MATERIAL CLEARED FROM THE SITE AND DEPOSITED ON ADJACENT OR NEARBY PROPERTY WILL NOT BE CONSIDERED AS HAVING BEEN DISPOSED OF SATISFACTORILY.
32. ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE PROJECT ENGINEER, WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE ENGINEER WILL ARRANGE FOR INVESTIGATION, IDENTIFICATION, AND REMEDIATION OF THE HAZARDOUS MATERIAL. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE PROJECT ENGINEER.
33. EXISTING ABOVE GROUND FEATURES ARE SHOWN ACCORDING TO THE BEST AVAILABLE DATA AND MAY NOT ACCURATELY REFLECT PRESENT CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH CURRENT SITE CONDITIONS, AND SHALL REPORT DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
34. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES AND UTILITIES, WHICH MAY NOT BE SHOWN ON PLANS. ANY STRUCTURE, PAVEMENT, TREES OR OTHER EXISTING IMPROVEMENT NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARILY DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
35. CONTRACTOR TO RELOCATE TREES AS DIRECTED BY THE ENGINEER. CONTRACTOR SHALL AVOID DAMAGE TO ANY EXISTING TREES TO REMAIN. EXISTING TREES SHALL BE REMOVED ONLY IF REQUIRED FOR CONSTRUCTION. THOSE TREES NOT INTERFERING WITH CONSTRUCTION SHALL BE PROTECTED IN PLACE.
36. THE CONTRACTOR SHALL USE A STREET SWEEPER (USING WATER) OR OTHER EQUIPMENT CAPABLE OF CONTROLLING AND REMOVING DUST. APPROVAL OF THE USE OF SUCH EQUIPMENT IS CONTINGENT UPON ITS DEMONSTRATED ABILITY TO DO THE WORK.
37. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS USED IN THIS PROJECT.
38. WHEN DISSIMILAR MATERIAL CONNECTIONS ARE MADE, SUCH AS CONCRETE TO METAL, THE DISSIMILAR MATERIAL SHALL BE SEPARATED BY COATING THE CONTACT SURFACE WITH BITUMASTIC MATERIAL.
39. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING EXISTING AND NEW INLETS CLEAN OF MILLING MATERIAL, LIMEROCK, DEBRIS, ETC. DURING THE CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER. ALL LINES AND STRUCTURES SHALL BE CLEANED PRIOR TO FINAL INSPECTION AND ACCEPTANCE.
40. CAST IRON PRODUCTS: HEAVY-DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS OR 16,000 LBS WHEEL LOADS.
41. STEEL GRATING AND COVERS: TRAFFIC CLASSIFICATION H-20; 16,000 LBS OVER 8"x20" AREA.
42. EXISTING DRAINAGE STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED UNLESS OTHERWISE NOTED.
43. EXISTING MANHOLES AND INLETS SCHEDULED TO REMAIN SHALL BE THOROUGHLY CLEANED BY REMOVING ALL DEBRIS AND SEDIMENTS, AND THE INTERIOR SHALL BE SEALED WITH AN APPROVED NON-TOXIC BITUMASTIC SEALANT.
44. PRIOR TO CONSTRUCTION THE CONTRACTOR WILL INSPECT ALL EXISTING STRUCTURES WHICH ARE TO REMAIN AND NOTIFY THE ENGINEER OF ANY OBVIOUS STRUCTURAL DEFICIENCIES.
45. CONTRACTOR SHALL ADJUST ALL EXISTING CATCH BASINS, GRATES, AND STORM MANHOLE COVERS TO MEET NEW GRADES WHERE APPLICABLE.
46. ELEVATIONS AND OFFSETS SHOWN AT DRAINAGE STRUCTURES REFER TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
47. RADII ON CURB RETURNS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
48. PRIOR TO CONSTRUCTION THE CONTRACTOR WILL VERIFY INVERT ELEVATIONS OF ALL PIPES WHICH ARE TO REMAIN AND NOTIFY THE ENGINEER OF ANY ELEVATION DEVIATIONS.
49. THERE SHALL BE NO MORE THAN THREE LATERAL DRAINAGE INSTALLATIONS WITHOUT BACKFILLING. BACKFILLING OF LATERAL DRAINAGE SHALL NOT LAG MORE THAN 72 HOURS BEHIND THE START OF EXCAVATION.
50. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROADBED AND EXTREME CAUTION SHOULD BE USED IN THE STABILIZING OPERATIONS AT THESE LOCATIONS.
51. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION, AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH SPECIFICATIONS OUTLINED IN THE PUBLIC WORKS DEPARTMENT MANUAL, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND THE FDOT DESIGN STANDARDS.

52. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND FLUSH WITH THE EXISTING PAVEMENT.
53. THE LOCATION OF SOME DRIVEWAYS IS APPROXIMATE. VERIFICATION OF EXACT LOCATION AND DIMENSIONS IS RECOMMENDED.
54. EXISTING DRIVEWAYS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE REPLACED AT THE SAME LOCATION AND WIDTH, UNLESS OTHERWISE SHOWN IN PLANS.
55. WHERE CONNECTIONS TO EXISTING SIDEWALKS AND DRIVEWAYS ARE NOT INDICATED ON PLANS, PROPER CONNECTIONS ARE TO BE MADE AS DIRECTED BY THE ENGINEER. DROP CURB AND DRIVEWAY CONNECTIONS SHALL BE PROVIDED FOR ACCESS TO ALL PRIVATE PROPERTIES ADJACENT TO THE PROJECT. PAYMENT SHALL BE INCLUDED IN THE COST OF RELATED BID ITEMS.
56. CONTRACTOR TO INSTALL  $\frac{1}{2}$ " PREFORMED EXPANSION JOINT WHEN PROPOSED SIDEWALK IMPROVEMENTS IS IMMEDIATELY ADJACENT TO EXISTING CONCRETE SLAB AND/OR BUILDING.
57. THE SIDEWALK AT DRIVEWAY TURNOUTS SHALL BE 6" CONCRETE.
58. ALL BUS STOP SIGNS TO BE FURNISHED BY MIAMI-DADE TRANSIT. ENGINEER TO CONTACT MIAMI-DADE COUNTY TRANSIT AT (305)637-3753 ONE (1) WEEK PRIOR TO POURING SIDEWALKS AND COORDINATE THE REMOVAL AND REPLACEMENT OF BUS STOP SIGNS AND BENCHES.
59. COMPLETE AS-BUILT INFORMATION RELATIVE TO LOCATION AND DEPTH OF PIPES, MANHOLES, ETC. SHALL BE ACCURATELY RECORDED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE WORK. ALL ELEVATIONS SHALL BE TAKEN BY A FLORIDA REGISTERED SURVEYOR AND SHOWN ON THE RECORD DRAWINGS.
60. DESIGN WATER TABLE ELEVATION: 3.0 FT
61. MIAMI-DADE COUNTY FLOOD CRITERIA ELEVATION: 6.5 FT
62. THE INFORMATION PROVIDED IN THESE DRAWINGS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF WORK. THE CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH BIDS WILL BE BASED.
63. SHOP DRAWINGS FOR SIGNAL EQUIPMENT AND MAST-ARMS ARE TO BE DELIVERED TO TRAFFIC SIGNALS AND SIGN DIVISION LOCATED AT 7100 NW 36 ST MIAMI, FL 33166 TO THE ATTENTION OF OSCAR RUBIO IN ORDER TO ASSURE EQUIPMENT MEETS THE MDC STANDARDS.

DATE				REVISIONS			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

DESIGNED	NAME	DATE	DRAWN	NAME	DATE
DESIGNED	A.S.	2/14/2022	DRAWN	J.M.	2/14/2022
CHECKED	L.A.O.	2/14/2022	CHECKED	L.A.O.	2/14/2022
SUPERVISED BY:					

MIAMI-DADE COUNTY	DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY DIVISION	
	STEPHEN P. CLARK, CHIEF OF DIVISION MIAMI, FLORIDA 33138	

GENERAL NOTES



P:\Miami\Planning\Highways\Vol. Cutler Road - Roundabout\Drawings\Drawings\16\_2022 - 1250m E2105683

## STORMWATER POLLUTION PREVENTION PLAN

### NARRATIVE DESCRIPTION

THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE DESCRIPTION CONTAINS REFERENCES TO THE CONTRACT DOCUMENTS, THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL (E&SC MANUAL), THE FDOT DESIGN STANDARDS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. THE COMPLETE SWPPP IS COMPRISED OF SEVERAL ITEMS INCLUDING: THIS NARRATIVE DESCRIPTION, THE DOCUMENTS REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN (ECP) PREPARED AND SUBMITTED IN ACCORDANCE WITH CONTRACT DOCUMENTS, AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION. ALL OF WHICH ARE COMPLEMENTARY TO THE SIGNED AND CERTIFIED SWPPP. IF ONE IS PROVIDED BY THE DEPARTMENT, CONTRACTOR IS REQUIRED TO MAINTAIN COPIES OF THE AFOREMENTIONED ITEMS ON SITE, INCLUDING ALL APPLICABLE PERMITS.

#### 1. SITE DESCRIPTION

- A. NATURE OF CONSTRUCTION ACTIVITIES:  
THE PROJECT CONSIST OF (2) TWO LANES ROUNDABOUTS AND THE TRANSITION IN ALL ROUNDABOUT LEGS FROM TWO LANES TO THE EXISTING ONE LANE ROADS. OTHER ACTIVITIES INCLUDED ARE SIGNALIZATION AND LIGHTING IMPROVEMENTS. THE PROPOSED DRAINAGE SYSTEM UTILIZES CURB INLETS AND FRENCH DRAIN.
- B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES: THE CONTRACTOR SHALL PROVIDE IN THE ECP A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. EACH CONSTRUCTION PHASE REQUIRES THE INSTALLATION OF PERIMETER CONTROL, AFTER CLEARING AND GRUBBING AS NECESSARY FOR THE INSTALLATION OF THE CONTROLS, PRIOR TO BEGINNING ANY WORK. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.
- 1) CLEARING AND GRUBBING, AND EARTHWORK.  
2) FINAL GRADING AND LANDSCAPING WHERE NECESSARY.

#### C. AREA ESTIMATES (ACRE)

- 1) TOTAL SITE AREA: 8.935  
2) TOTAL AREA OF THE SITE THAT IS EXPECTED TO BE DISTURBED: 6.87

#### D. EXISTING DATA DESCRIBING THE SOIL OR THE QUALITY OF ANY DISCHARGE FROM THE SITE AND AN ESTIMATE OF THE SIZE OF THE DRAINAGE AREA FOR EACH DISCHARGE POINT:

- 1) RATIONAL RUNOFF COEFFICIENT  
A) BEFORE: 0.32  
B) DURING: 0.39  
C) AFTER CONSTRUCTION: 0.69
- 2) EXISTING DATA DESCRIBING THE SOIL OR THE QUALITY OF DISCHARGE FROM THE SITE: ACCORDING TO THE UNITED STATES DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE SOIL SURVEY REPORT OF DADE COUNTY AREA, FLORIDA, THE SOILS ENCOUNTERED ON THE PROJECT ARE SILTY SAND WITH THE UNDERLYING SOIL BEING SAND WITH TRACES OF ROCK FRAGMENTS.
- 3) THE SIZE OF THE DRAINAGE AREA FOR EACH OUTFALL  
A) THIS PROJECT HAS NO OUTFALLS.
- 4) THE LOCATION OF EACH OUTFALL IS NOT APPLICABLE TO THIS PROJECT.
- E. SITE MAP: THE ASSOCIATED CONSTRUCTION PLAN SHEETS AND CROSS SECTIONS WILL BE USED AS THE SITE MAP. LOCATIONS OF THE REQUIRED INFORMATION ARE DESCRIBED BELOW. THE SHEET NUMBERS FOR ALL ITEMS DISCUSSED ARE IDENTIFIED ON THE COVER SHEET OF THE CONSTRUCTION PLANS.

- 1) DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER MAJOR GRADING ACTIVITIES: THE SLOPES OF THE SITE CAN BE SEEN ON THE CONSTRUCTION PLAN SHEETS.
- 2) AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE CONSTRUCTION PLAN DETAIL SHEETS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.
- 3) AN OUTLINE OF AREAS WHICH MAY NOT BE DISTURBED: THESE AREAS OF THE PROJECT OUTSIDE THE CLEARING AND GRUBBING AND CONSTRUCTION ACTIVITIES WHICH ARE COMPRISED OF THOSE THAT ARE NOT SUBJECT TO ANY SOIL DISTURBING ACTIVITIES.
- 4) THE LOCATION OF MAJOR STRUCTURAL AND NONSTRUCTURAL CONTROLS IDENTIFIED IN THE PLAN: TEMPORARY SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AT ALL LOCATIONS WHERE DISTURBANCE OF SOLIDS WILL OCCUR. ADDITIONAL MEASURES MAY BE REQUIRED AS NECESSARY WHERE STORMWATER RUNOFF HAS THE POTENTIAL TO REACH SURFACE WATERS OR OFFSITE STORMWATER COLLECTION FACILITIES.
- 5) THE LOCATION OF AREAS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR, SURFACE WATERS, WETLANDS AND LOCATIONS WHERE STORMWATER IS DISCHARGED TO A SURFACE WATER OR MS4: AREAS OF PERMANENT STABILIZATION ARE SHOWN ON THE CONSTRUCTION PLAN SHEETS AND CONSTRUCTION DETAIL SHEETS.

#### F. DISCHARGE POINT(S): N/A. THIS PROJECT HAS NO OUTFALL.

#### 2. CONTROLS

- A. EROSION AND SEDIMENT CONTROLS: THE CONTRACTOR SHALL DESCRIBE IN THE ECP THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES. THE CONTRACTOR MAY CHOOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN THE ECP, SUBJECT TO APPROVAL BY THE ENGINEER. AS WORK PROGRESSES, THE CONTRACTOR SHALL MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATION, CHANGES IN CONSTRUCTION ACTIVITIES, AND THE NEED FOR BETTER MANAGEMENT PRACTICES. FOR EACH CONSTRUCTION PHASE INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED. IN ADDITION:
- FURNISH AND PLACE INLET PROTECTION SYSTEMS TO CONTROL EROSION AND SILTATION.
  - INSTALL SOIL TRACKING PREVENTION DEVICES (STPDs) AT ALL COMMON AREAS WHERE CONSTRUCTION VEHICLES WILL BE ENTERING AND EXITING THE CONSTRUCTION SITE.
  - SEDIMEN BARRIERS SHALL BE INSTALLED AND AT THE TOE OF SLOPE OF EMBANKMENTS AND AT LOCATIONS AS DESCRIBED IN THE EROSION AND SEDIMENT CONTROL DETAILS AND E&SC MANUAL.
  - INLET PROTECTION SHALL BE USED FOR ALL EXISTING INLETS SUBJECT TO SEDIMENT RUNOFF.

- EROSION CONTROL MATS MAY BE UTILIZED AS AN EXTRA MEASURE OF PROTECTION FOR EMBANKMENT OR BERM CONSTRUCTION TO PREVENT EROSION.
- CLEARING AND GRUBBING OPERATIONS WILL BE CONTROLLED SO AS TO MINIMIZE UNPROTECTED ERODIBLE AREAS EXPOSED TO WEATHER. AREAS OUTSIDE THE LIMITS OF CONSTRUCTION SHALL NOT BE DISTURBED.
- EXCAVATED MATERIAL SHALL NOT BE DEPOSITED IN LOCATIONS WHERE THE MATERIAL COULD BE WASHED AWAY BY HIGH WATER, RAIN OR STORMWATER RUNOFF. STOCKPILES SHALL BE COVERED OR ENGROGLED WITH SEDIMENT DEVICES.

- 1) STABILIZATION PRACTICES: IN THE ECP, THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

#### A) TEMPORARY: INCLUDES SOD, MULCH, AND ARTIFICIAL COVERINGS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

#### B) PERMANENT: INCLUDES ASPHALT OR CONCRETE SURFACE, SOD, ROADSIDE SWALES, AND ENDWALLS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

- 2) STRUCTURAL PRACTICES: IN THE ECP, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL AND TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

#### A) TEMPORARY: INCLUDES INLET PROTECTION SYSTEMS, SEDIMENT BARRIERS, TURBIDITY BARRIERS AND SOIL TRACKING PREVENTION DEVICES AS PER THE E&SC MANUAL AND THE CONTRACT DOCUMENTS. SEE EROSION AND SEDIMENT CONTROL DETAILS FOR MORE INFORMATION. ALL SEDIMENT CONTROLS SHALL BE IN PLACE PRIOR TO ANY SOIL DISTURBING ACTIVITY.

#### B) PERMANENT: INCLUDES ROADSIDE SWALES.

- B. PERMANENT STORMWATER MANAGEMENT CONTROLS: STORMWATER RUNOFF WILL BE CONVEYED IN A ROADSIDE SWALE TO THE FRENCH DRAIN AND WILL INFILTRATE INTO THE GROUND. DRAINAGE STRUCTURES WITHIN THE CORRIDOR CONSIST OF CURB INLETS, AND FRENCH DRAIN.

- C. CONTROL FOR OTHER POTENTIAL POLLUTANTS: THE CONTRACTOR SHALL PRACTICE GOOD HOUSEKEEPING BY INSTITUTING A CLEAN, ORDERLY CONSTRUCTION SITE. THE FOLLOWING CONTROLS SHALL BE IMPLEMENTED TO FURTHER REDUCE POLLUTION AT THE PROJECT SITE:

#### 1) WASTE DISPOSAL: IN THE ECP, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

##### A) THE CONTRACTOR SHALL DEMONSTRATE THE PROPER DISPOSAL OF ALL CONSTRUCTION WASTE GENERATED WITHIN THE PROJECT LIMITS. WASTE MAY INCLUDE, BUT NOT BE LIMITED TO, VEGETATION FROM CLEARING AND GRUBBING ACTIVITIES, PACKAGING MATERIALS, SCRAP BUILDING MATERIALS, LITTER FROM TRAVELING PUBLIC, SEWAGE FROM SANITARY FACILITIES, HERBICIDES AND PESTICIDES AND THEIR CONTAINERS, AND HYDROCARBON PRODUCTS. CONTRACTOR SHALL DESIGNATE A WASTE COLLECTION AREA ONSITE AND DELINEATE THE AREA ON THE SWPPP SITE MAP.

##### B) SANITARY/SEPTIC FACILITIES SHALL BE PROVIDED AND MAINTAINED IN A NEAT AND SANITARY CONDITION, FOR THE USE OF THE CONTRACTOR'S EMPLOYEES AS NECESSARY TO COMPLY WITH THE REQUIREMENTS AND REGULATIONS OF THE STATE AND LOCAL BOARDS OF HEALTH. A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE REGULATIONS WILL COLLECT ALL SANITARY WASTE FROM PORTABLE UNITS.

##### C) THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT LIMITS DURING CONSTRUCTION ACTIVITIES. CONTRACTOR WILL PROVIDE AN ADEQUATE NUMBER OF LITTER CONTAINERS WITH LIDS AT THE STAGING, STOCKPILE AND FIELD OFFICE AREAS (AS APPLICABLE). WASTE COLLECTION WILL BE SCHEDULED SO THAT CONTAINERS ARE EMPTIED PRIOR TO OVERFLOW. SPILLED LITTER CONTAINERS WILL BE CLEANED UP IMMEDIATELY.

#### 2) OFF-SITE VEHICLE TRACKING & GENERATION OF DUST: IN THE ECP, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

##### A) STABILIZING CONSTRUCTION ENTRANCES AS NECESSARY ACCORDING TO THE E&SC MANUAL AND THE CONTRACT DOCUMENTS.

##### B) THE CONTRACTOR SHALL TAKE MEASURES TO INSURE THE CLEANUP OF SEDIMENTS THAT HAVE BEEN TRACKED BY VEHICLES OR HAVE BEEN TRANSPORTED BY WIND OR STORMWATER ABOUT THE SITE OR ONTO NEARBY ROADWAYS.

##### C) REMOVING EXCESS DIRT FROM ROADS DAILY.

##### D) USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.

##### E) STABILIZED CONSTRUCTION ENTRANCES AND CONSTRUCTION ROADS, IF APPROPRIATE, SHALL BE IMPLEMENTED IN ORDER TO REDUCE OFF-SITE TRACKING.

##### F) LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPAULIN. EXCESS DIRT ON THE ROAD SHALL BE REMOVED DAILY.

#### 3) STATE OR LOCAL REGULATIONS: IN THE ECP, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.

#### 4) APPLICATION OF FERTILIZER AND PESTICIDES

##### A) THE APPLICATION AND HANDLING OF HERBICIDES AND PESTICIDES SHALL BE IN COMPLIANCE WITH THE MANUFACTURER RECOMMENDED METHOD AND IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS MODIFIED BY THE CONTRACT DOCUMENTS.

##### B) HERBICIDES AND PESTICIDES SHALL BE STORED ONSITE IN THEIR ORIGINAL CONTAINERS WITH PRODUCT LABEL INTACT.

#### 5) TOXIC SUBSTANCES AND MATERIALS

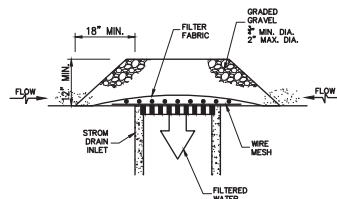
##### A) IN THE ECP, THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES AND MATERIALS THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.

R E V I S I O N S							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

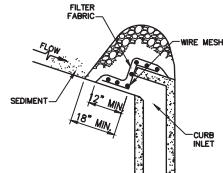
NAME	DATE	NAME	DATE
DESIGNED A.S.	2/14/2022	DRAWN J.M.	2/14/2022
CHECKED L.O.	2/14/2022	CHECKED L.O.	2/14/2022
SUPERVISED BY:			

MIAMI-DADE COUNTY	DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY DIVISION STEPHEN P. CLARK, CHIEF MIAMI, FLORIDA 33138

## STORMWATER POLLUTION PREVENTION PLANS



DROP INLET PROTECTION-GRAVEL



CURB INLET PROTECTION-GRAVEL

GRAVEL APPLICATIONS (TYP.)  
OR APPROVED ALTERNATIVE

NOTES FOR INLET PROTECTION GRAVEL:

1- INSTALLATION/APPLICATION CRITERIA:

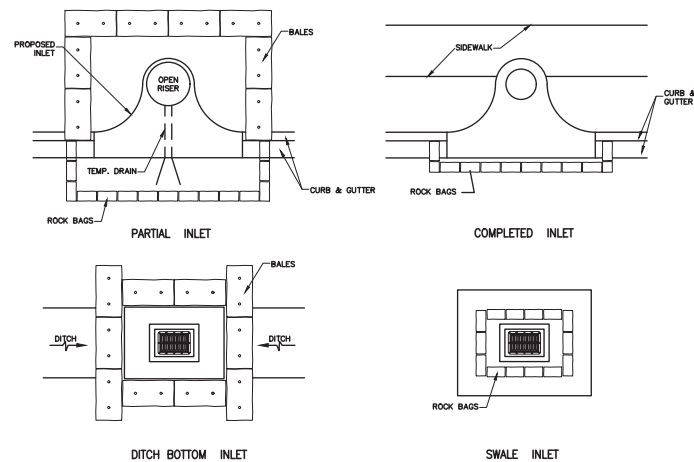
- PLACE WIRE MESH (WITH  $\frac{1}{2}$  INCH OPENINGS) OVER THE INLET GRATE EXTENDING ONE FOOT PAST THE GRATE IN ALL DIRECTIONS.
- PLACE FILTER FABRIC OVER THE MESH. FILTER FABRIC SHOULD BE SELECTED BASED ON SOIL TYPE.
- PLACE GRADED GRAVEL, TO A MINIMUM DEPTH OF 12 INCHES, OVER THE FILTER FABRIC AND EXTENDING 18 INCHES PAST THE GRATE IN ALL DIRECTIONS.

2- MAINTENANCE:

- INSPECT INLET PROTECTION AFTER EVERY LARGE STORM EVENT AND AT A MINIMUM OF ONCE MONTHLY.
- REMOVE SEDIMENT ACCUMULATED WHEN IT REACHES 4 INCHES IN DEPTH.
- REPLACE FILTER FABRIC AND CLEAN OR REPLACE GRAVEL IF CLOGGING IS APPARENT.

3- LIMITATIONS:

- RECOMMENDED FOR MAXIMUM DRAINAGE AREA OF ONE ACRE.
- EXCESS FLOWS MAY BYPASS THE INLET REQUIRING DOWN GRADIENT CONTROLS.
- PONDING WILL OCCUR AT INLET.



PROTECTION ALONG INLETS WITH ROCK BAGS BALES  
OR APPROVED ALTERNATIVES

NOTES FOR SYNTHETIC BALES OR BALE TYPE BARRIERS:

- 1-TYPE I AND II SYNTHETIC BARRIER SHOULD BE SPACED IN ACCORDANCE WITH CHART 1, SHEET 1 OF 2010 FDOT DESIGN STANDARDS INDEX 102.
- 2-BALES SHALL BE ANCHORED WITH TWO (2) 1"x2" (or 1" dia.) x 4' WOOD STAKES. STAKES OF OTHER MATERIAL OR SHAPE PROVIDING EQUIVALENT STRENGTH MAY BE USED IF APPROVED BY THE ENGINEER. STAKES OTHER THAN WOOD SHALL BE REMOVED UPON COMPLETION OF THE PROJECT.
- 3-RAILS AND POSTS SHALL BE 2"x4" WOOD. OTHER MATERIALS PROVIDING EQUIVALENT STRENGTH MAYBE USED IF APPROVED BY THE ENGINEER.
- 4-ADJACENT BALES SHALL BE BUTTED FIRMLY TOGETHER.
- 5-WHERE USED IN CONJUNCTION WITH SILT FENCE, BALES SHALL BE PLACED ON THE UPSTREAM SIDE OF THE FENCE.

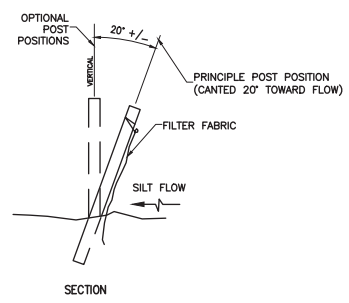
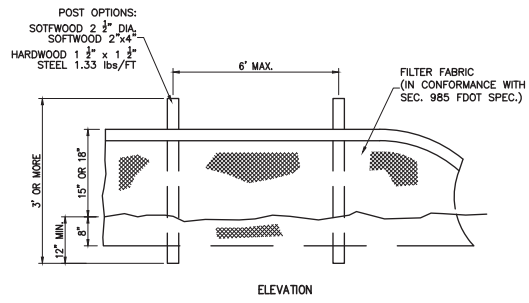
INLET PROTECTION SYSTEM (TYP.)  
OR APPROVED ALTERNATIVE

REVISIONS					
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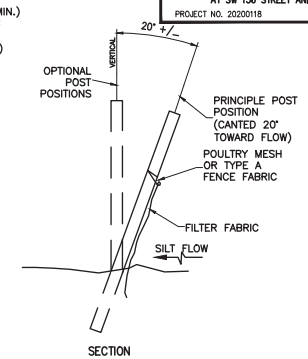
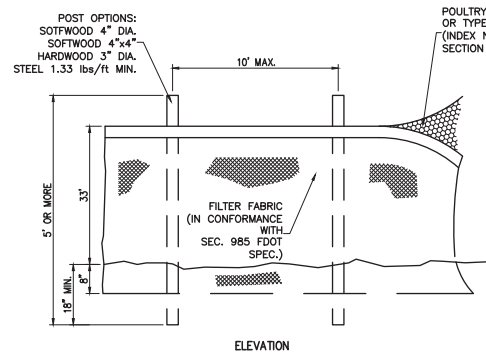
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CHECKED BY	L.A.O.		CHECKED BY	L.A.O.	
SUPERVISED BY:					

<b>MIAMI-DADE</b> COUNTY	DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY DIVISION	

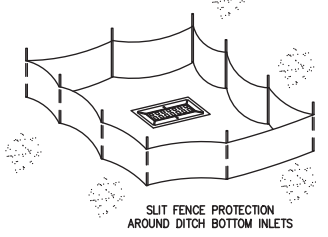
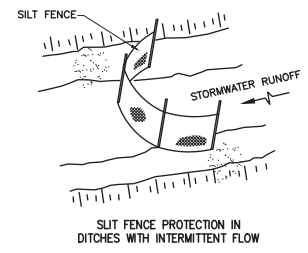
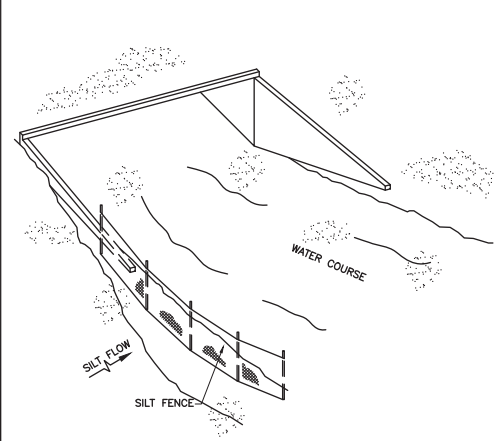
INLET PROTECTION SYSTEMS  
DETAILS



TYPE III SILT FENCE (TYP.)



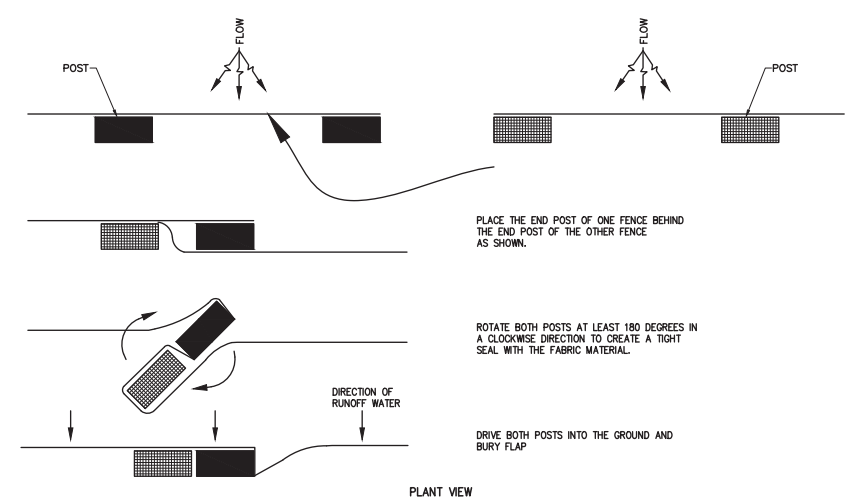
TYPE IV SILT FENCE (TYP.)



SILT FENCE APPLICATIONS (TYP.)

NOTES FOR SILT FENCES:

- 1- TYPE III SILT FENCE TO BE USED AT MOST LOCATIONS. WHERE USED IN DITCHES, THE SPACING FOR TYPE III SILT FENCE SHALL BE IN ACCORDANCE WITH CHART 1, SHEET 1 OF 2010 FDOT DESIGN STANDARDS INDEX 102.
- 2- TYPE IV SILT FENCE TO BE USED WHERE LARGE SEDIMENT LOADS ARE ANTICIPATED. SUGGESTED USE IS WHERE FILL SLOPE IS 1:2 OR STEEPER AND LENGTH OF SLOPE EXCEEDS 25 FEET. AVOID USE WHERE THE DETAINED WATER MAY BACK INTO TRAVEL LANES OR OFF THE RIGHT OF WAY.



JOINING TWO SILT FENCES (TYP.)

- 3- DO NOT CONSTRUCT SILT FENCES ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.
- 4- WHERE USED AS SLOPE PROTECTION, SILT FENCE IS TO BE CONSTRUCTED ON 0% LONGITUDINAL GRADE TO AVOID CHANNELIZING RUNOFF ALONG THE LENGTH OF THE FENCE.

SEDIMENT BARRIERS (TYP.)  
OR APPROVED ALTERNATIVE

REVISIONS					
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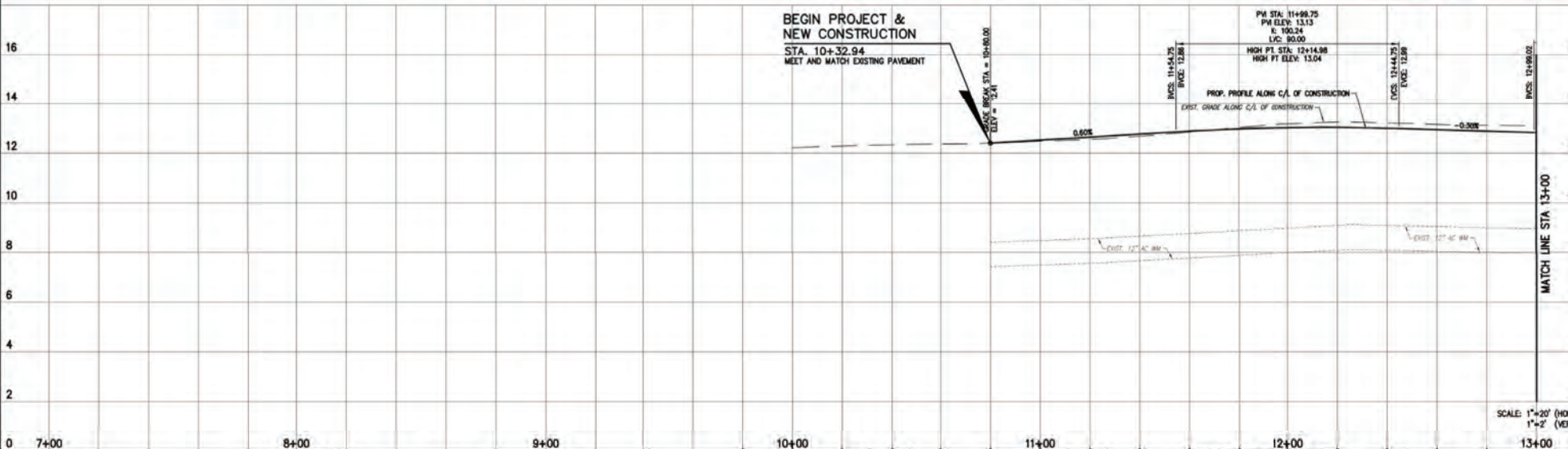
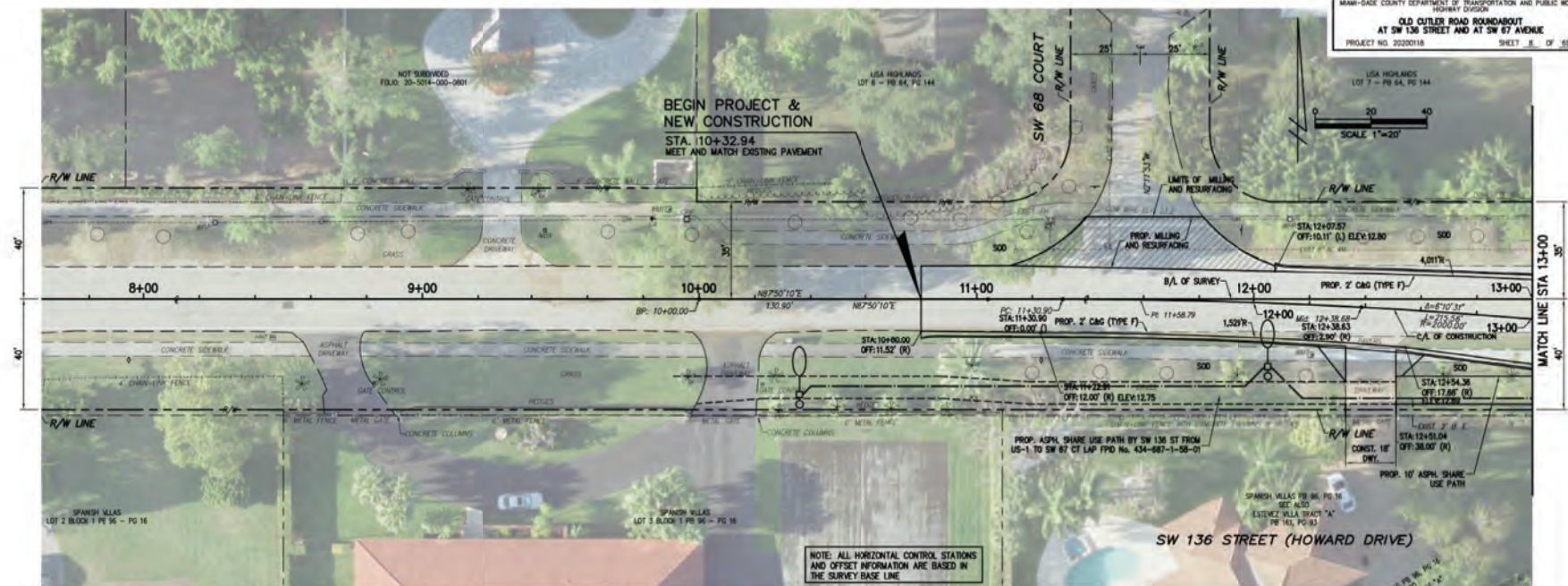
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CHECKED BY	L.A.D.		CHECKED BY	L.A.D.	
SUPERVISED BY:					

**MIAMI-DADE COUNTY**

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
HIGHWAY DIVISION  
STEPHEN P. CLARK, CHIEF  
MIAMI, FLORIDA 33138

SEDIMENT BARRIERS DETAILS





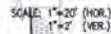
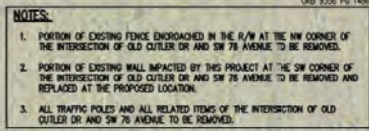
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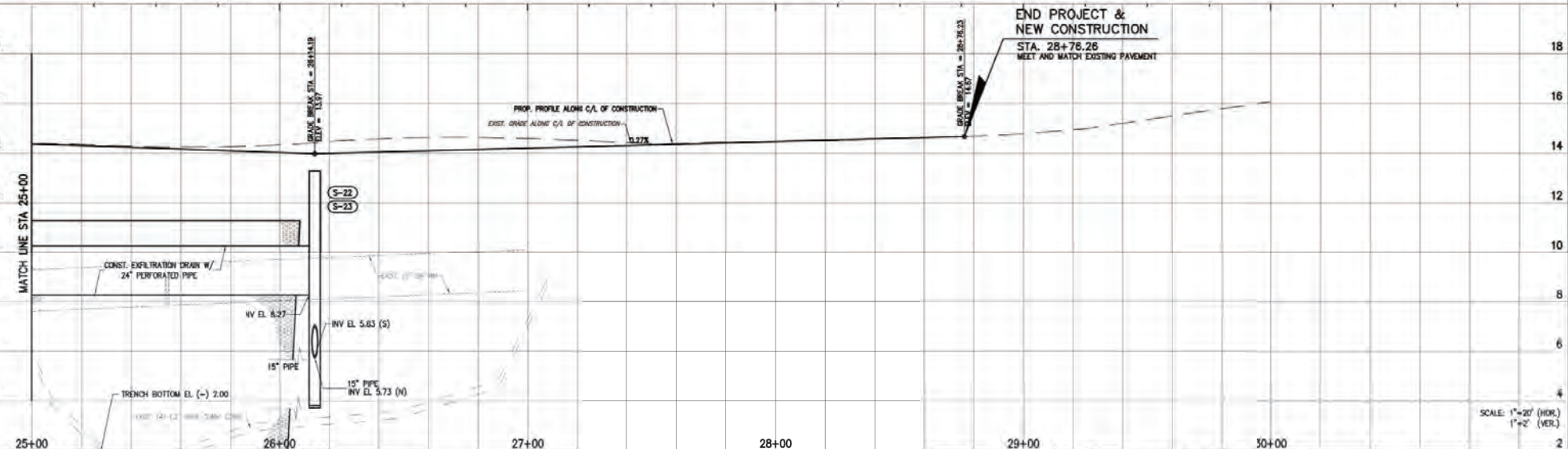
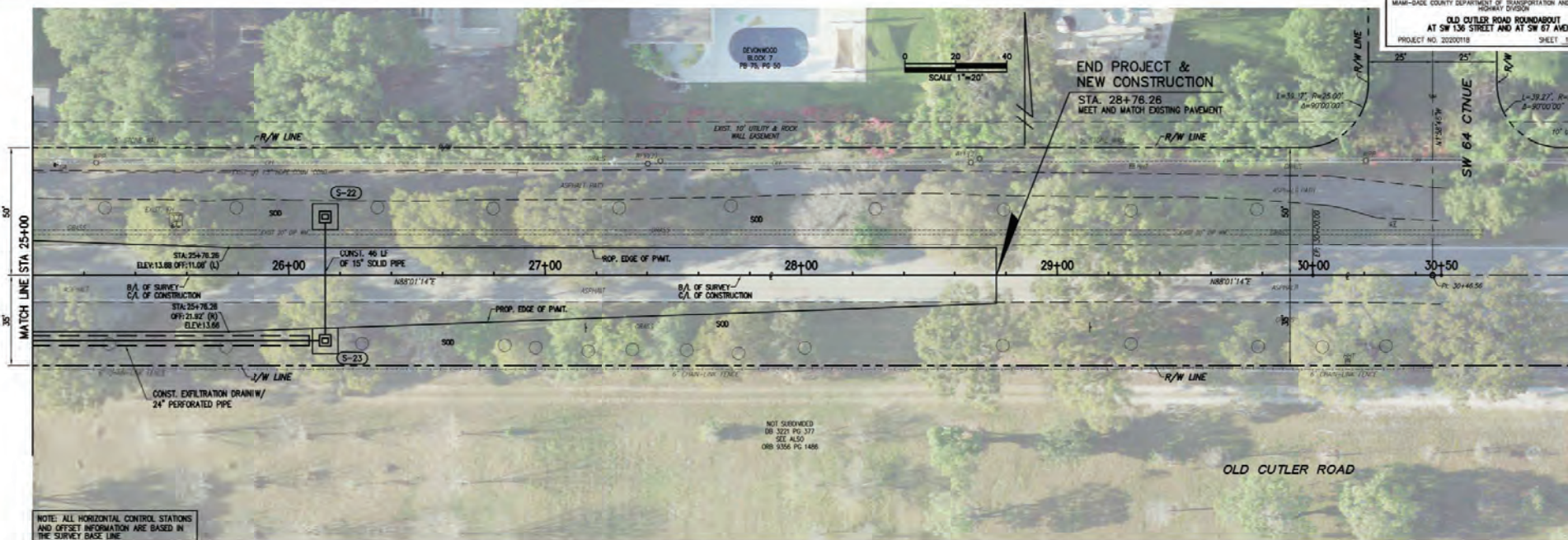




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CHECKED BY	L.J.G.	2/11/2022	CHECKED BY	L.J.G.	2/11/2022
APPROVED BY:					

### PLAN AND PROFILE





PROJECT NO. 20200118, SHEET 11 OF 59, OLD CUTLER ROAD ROUNDABOUT AT SW 136 STREET AND AT SW 67 AVENUE, PROJECT NO. 20200118, SHEET 11 OF 59

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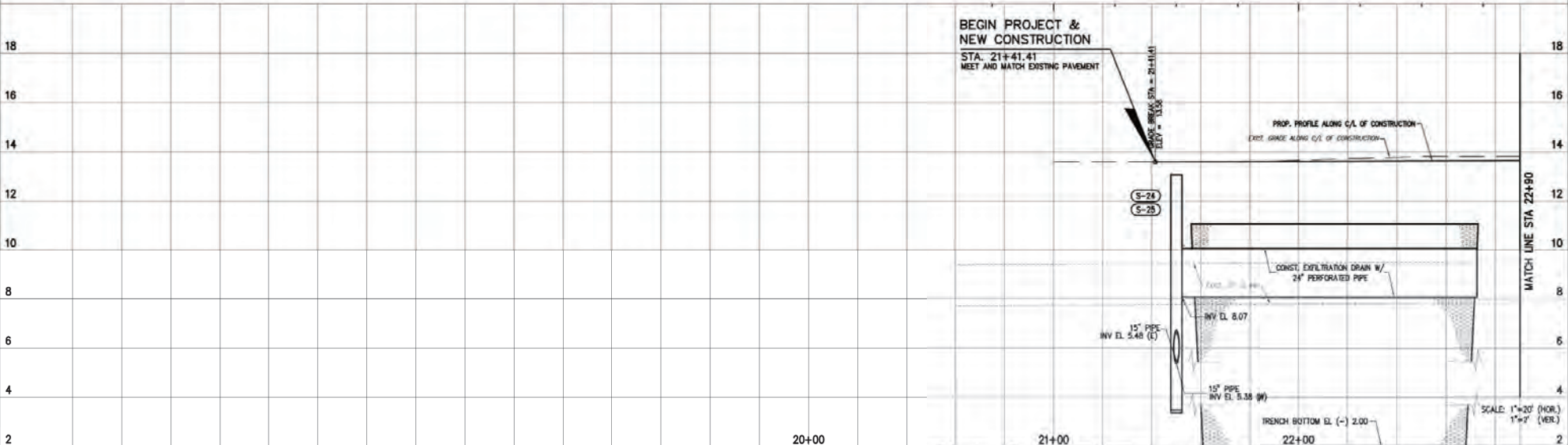
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SUPERVISED BY					

MIAMI-DADE COUNTY	DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY DIVISION	PLAN AND PROFILE
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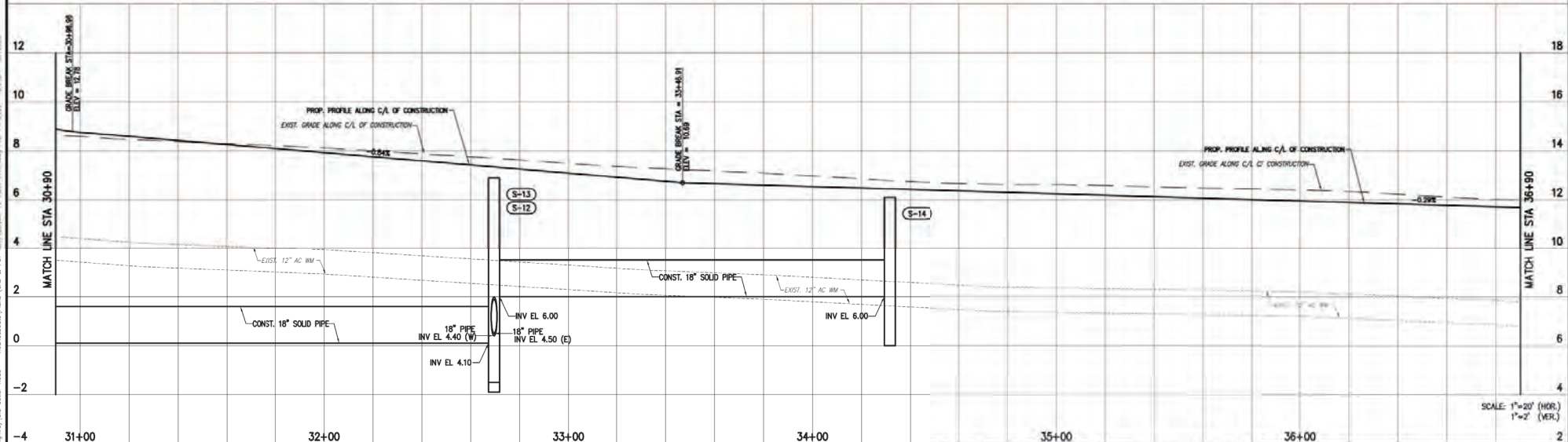
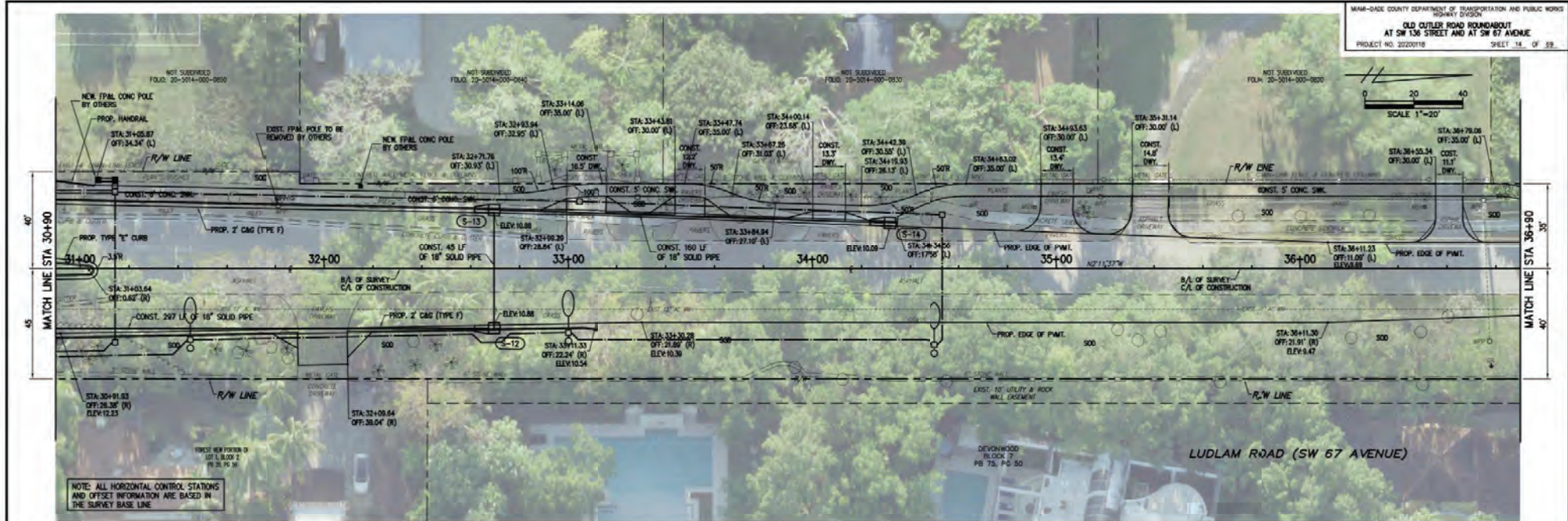
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SUPERVISED BY		DATE				DATE	

MIAMI-DADE COUNTY	DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY DIVISION OFFICE OF SUPERVISOR MIAMI, FLORIDA 33136	PLAN AND PROFILE
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REVISIONS														
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DESIGNED	NAME	DATE	CHECKED	NAME	DATE
AS	AS	2/14/2022	DA	DA	2/14/2022
CHECKED	NAME	DATE	SUPERVISOR	NAME	DATE
DA	DA	2/14/2022	DA	DA	2/14/2022

SUPERVISOR BY:	

DEPARTMENT OF TRANSPORTATION  
AND PUBLIC WORKS  
HIGHWAY DIVISION

MIAMI-DADE  
COUNTY

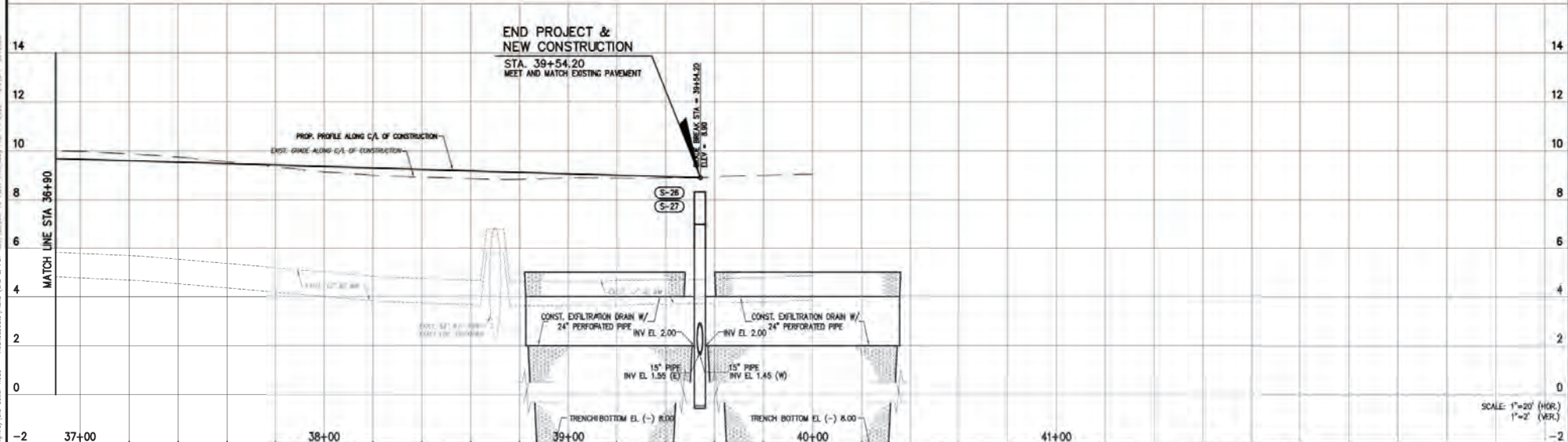
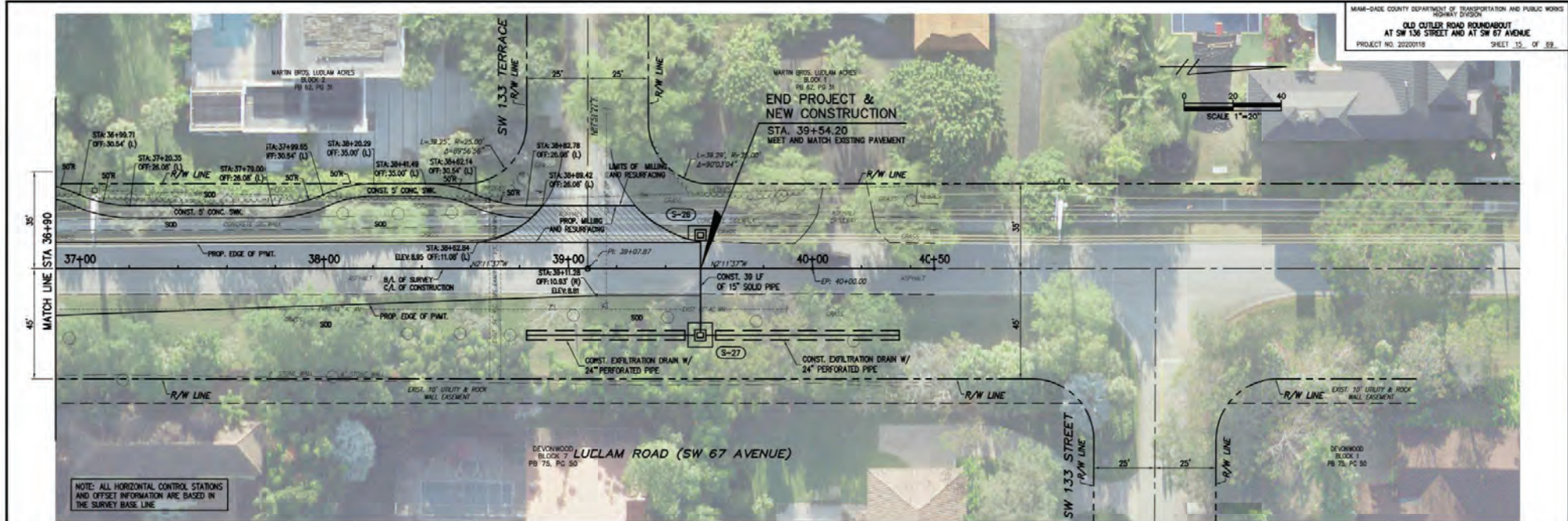
PLAN AND PROFILE

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SUPERVISOR	NAME	DATE	SUPERVISOR	NAME	DATE

**MIAMI-DADE COUNTY**  
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
 STENO A. GONZALEZ  
 CIVIL ENGINEER

**PLAN AND PROFILE**



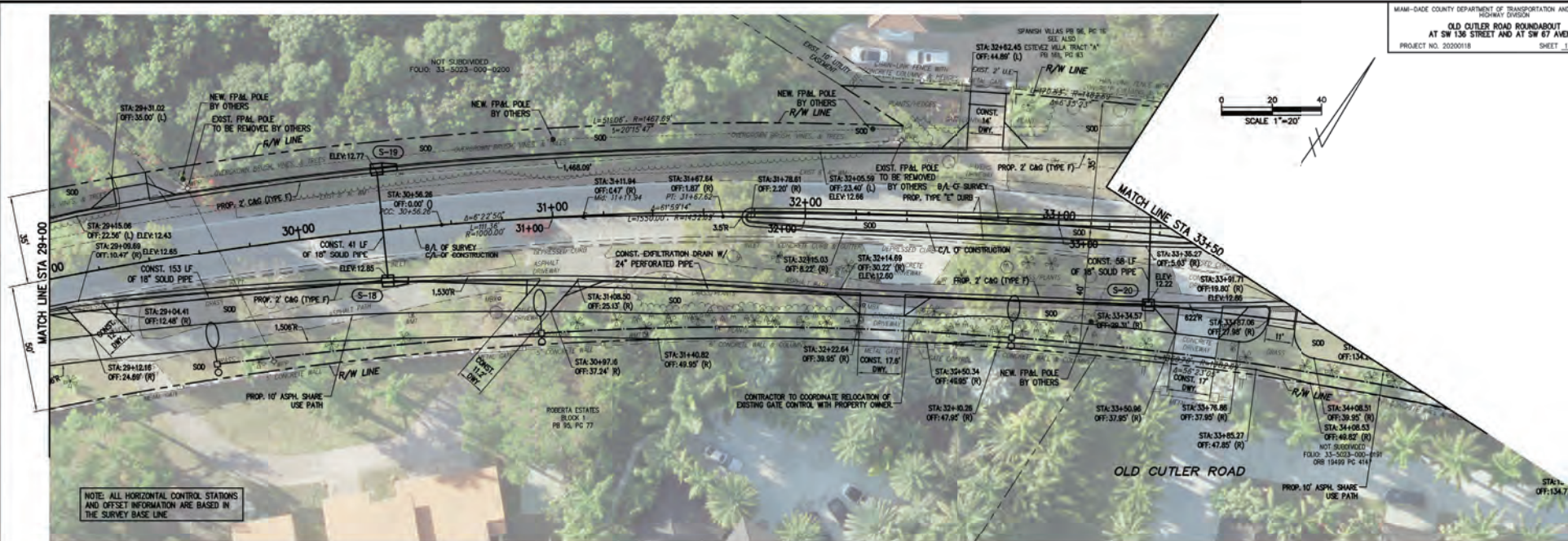


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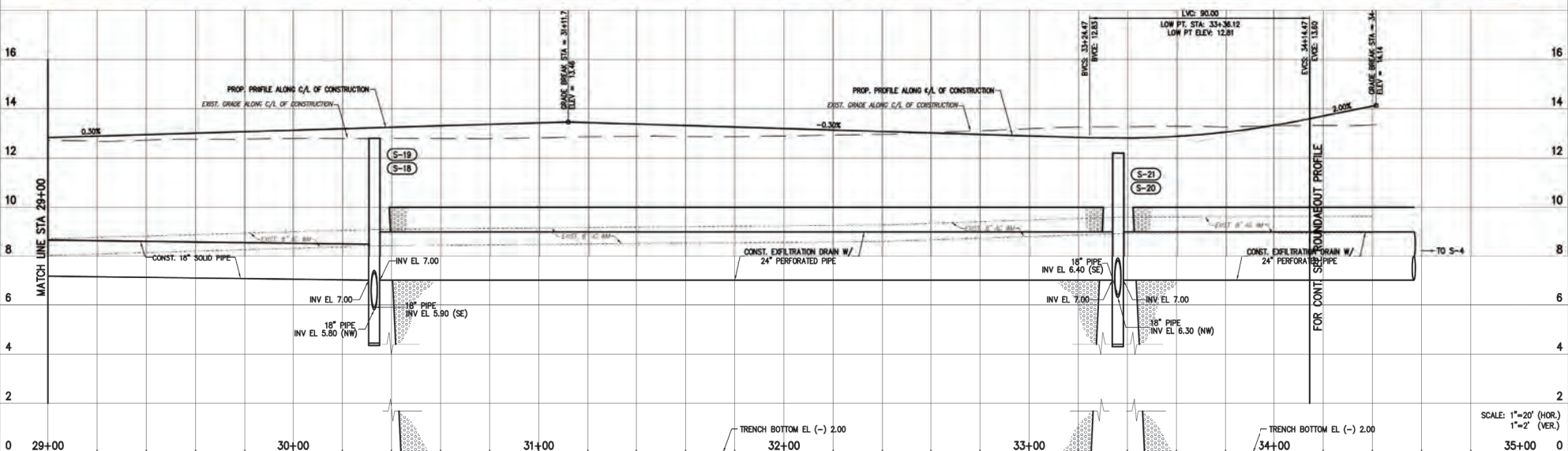








NOTE: ALL HORIZONTAL CONTROL STATIONS AND OFFSET INFORMATION ARE BASED IN THE SURVEY BASE LINE



REVISIONS				REVISIONS			
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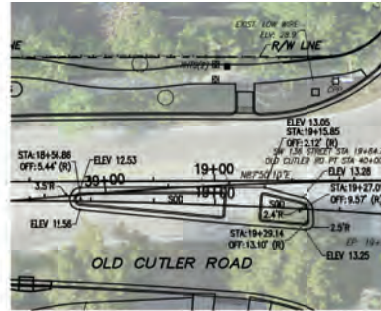
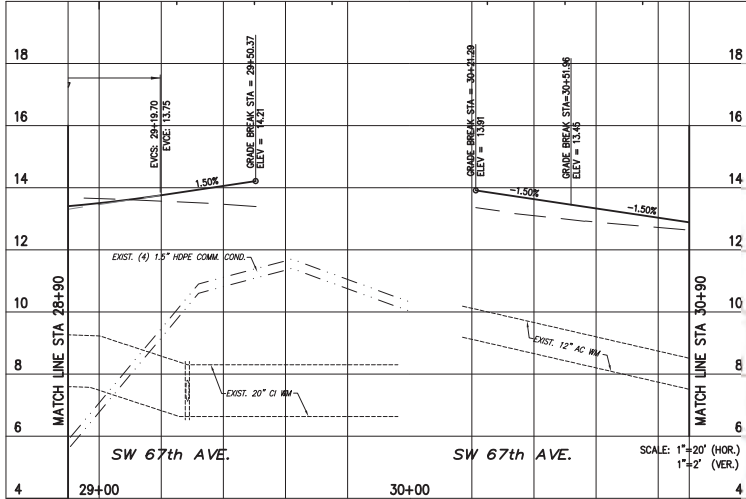
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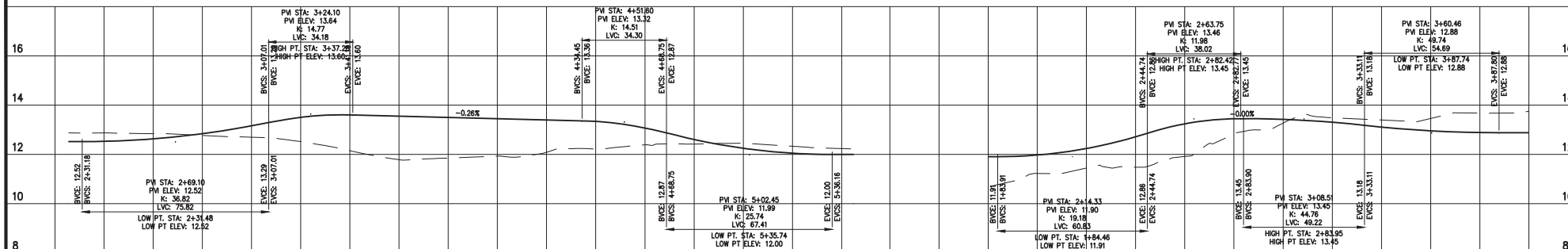
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
HIGHWAY DIVISION  
MIAMI-DADE COUNTY  
STEPHEN P. CLARK, CHIEF  
1001 N.W. 11th St.  
MIAMI, FLORIDA 33136

PLAN AND PROFILE



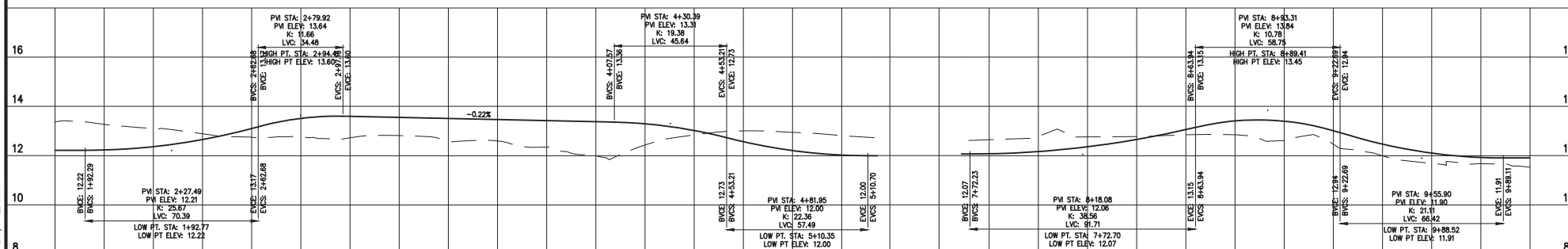
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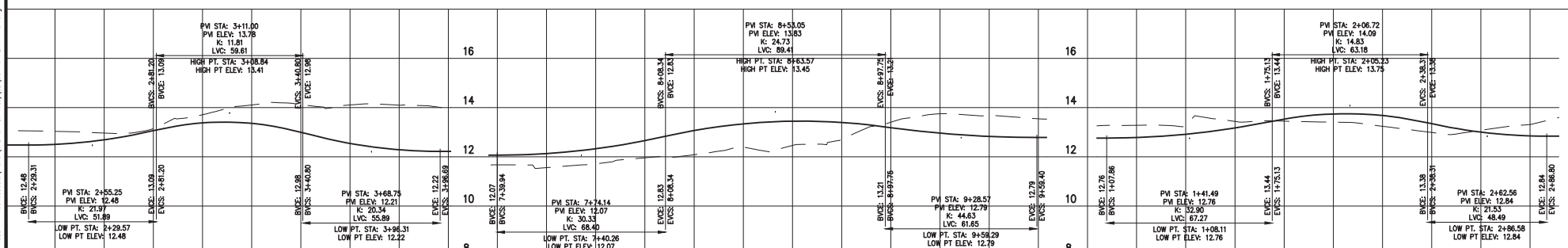
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PROFILE ALONG EOP NORTHWEST CORNER ROUNDABOUT # 1



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PROFILE ALONG EOP NORTHWEST CORNER ROUNDABOUT # 1



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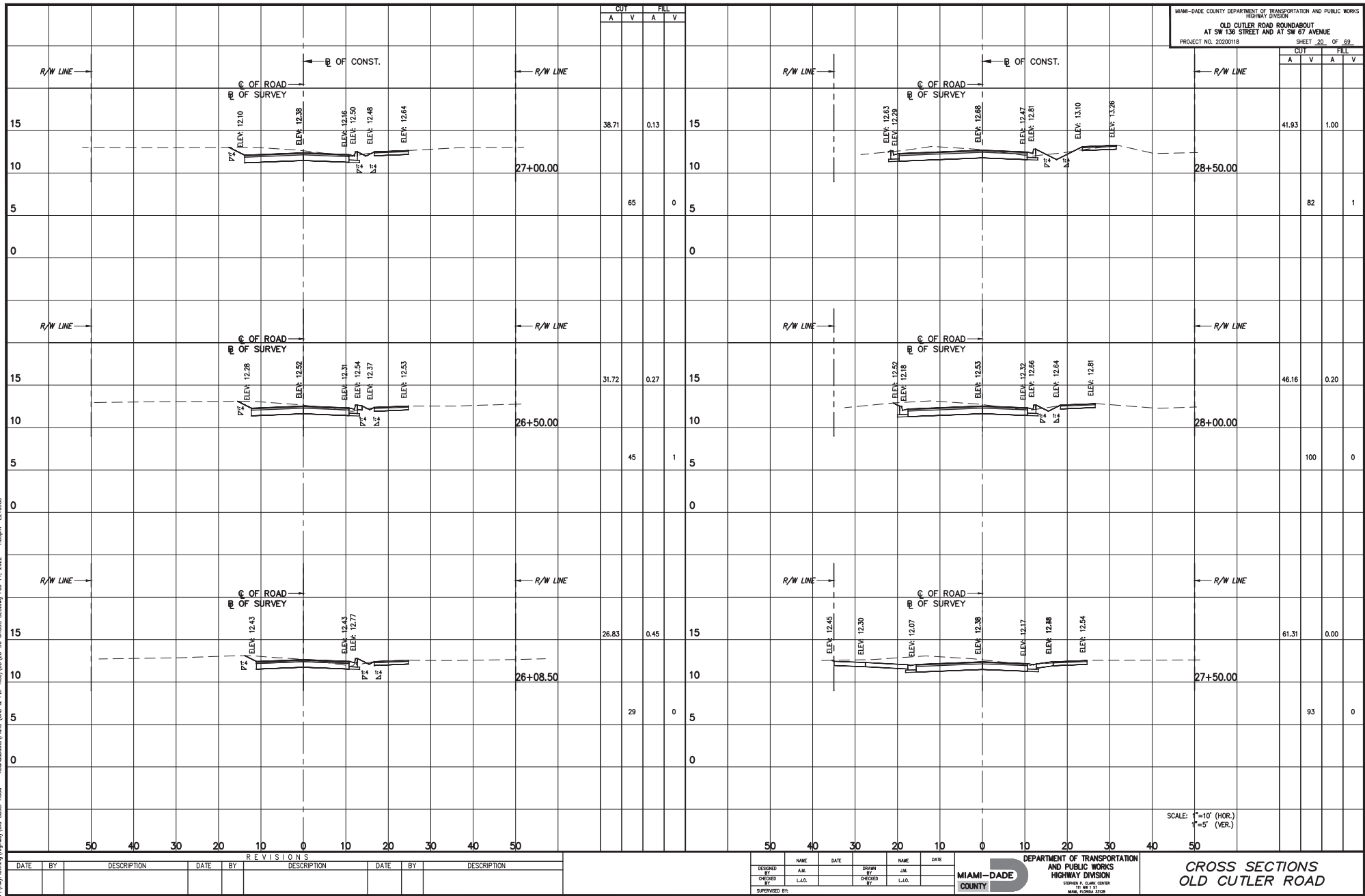
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CHECKED	NAME	DATE	CHECKED	NAME	DATE
L.A.O.	2/14/2022	2/14/2022	L.A.O.	2/14/2022	2/14/2022
SUPERVISED BY	NAME	DATE	SUPERVISED BY	NAME	DATE

MIAMI-DADE  
COUNTY  
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC WORKS  
HIGHWAY DIVISION  
STEPHEN P. CLARK, CHIEF  
MIAMI, FLORIDA 33138

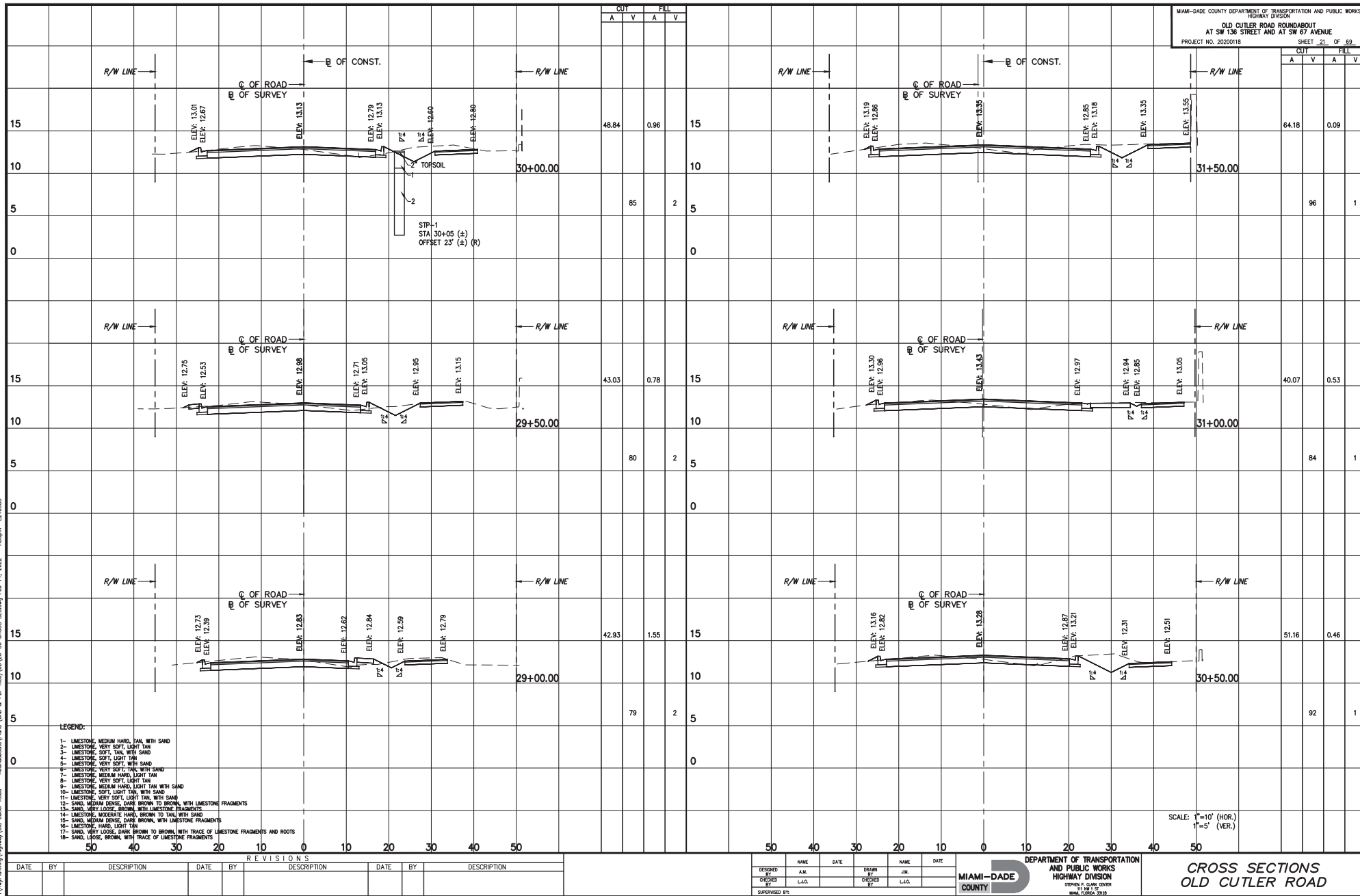
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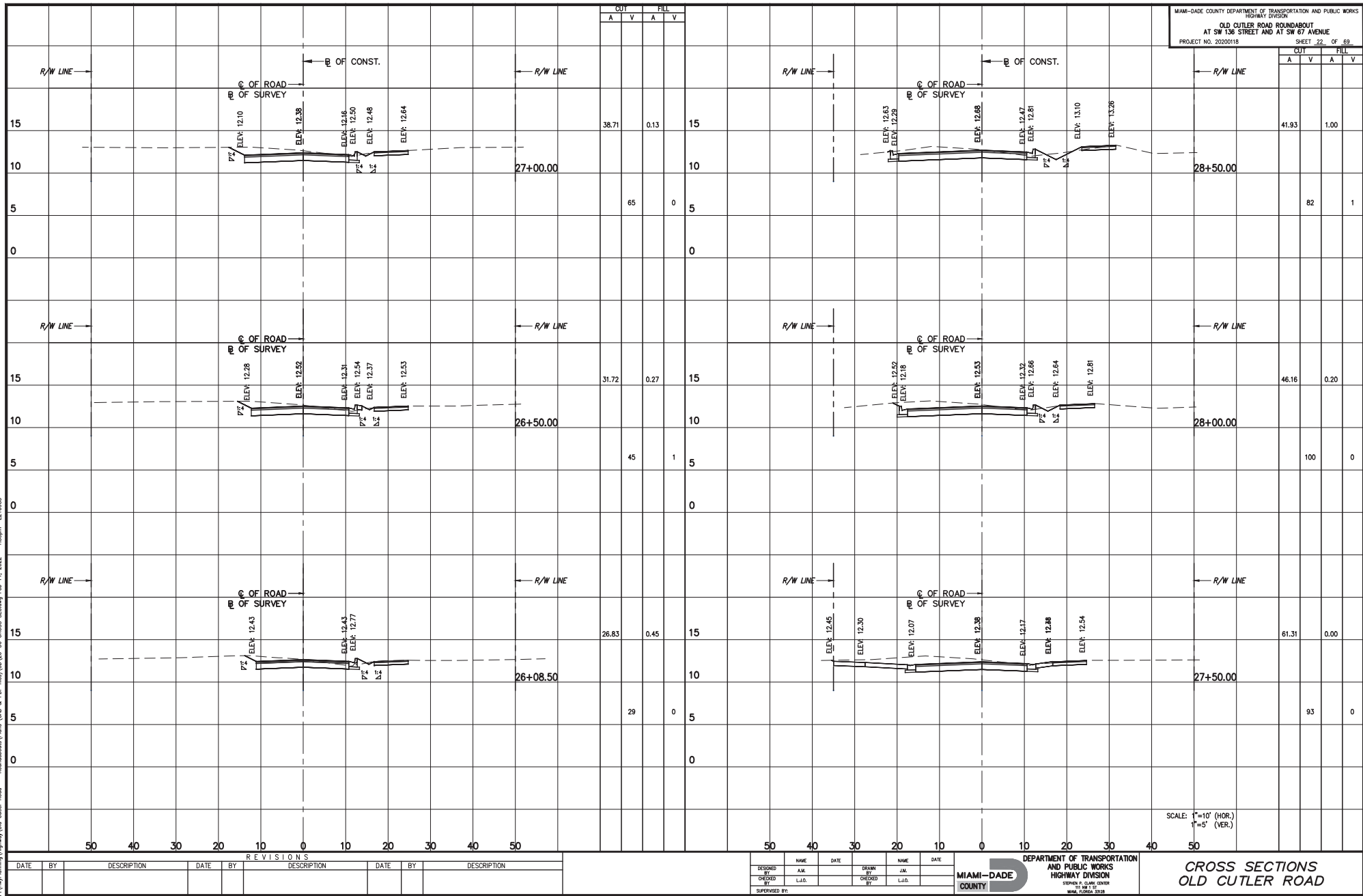


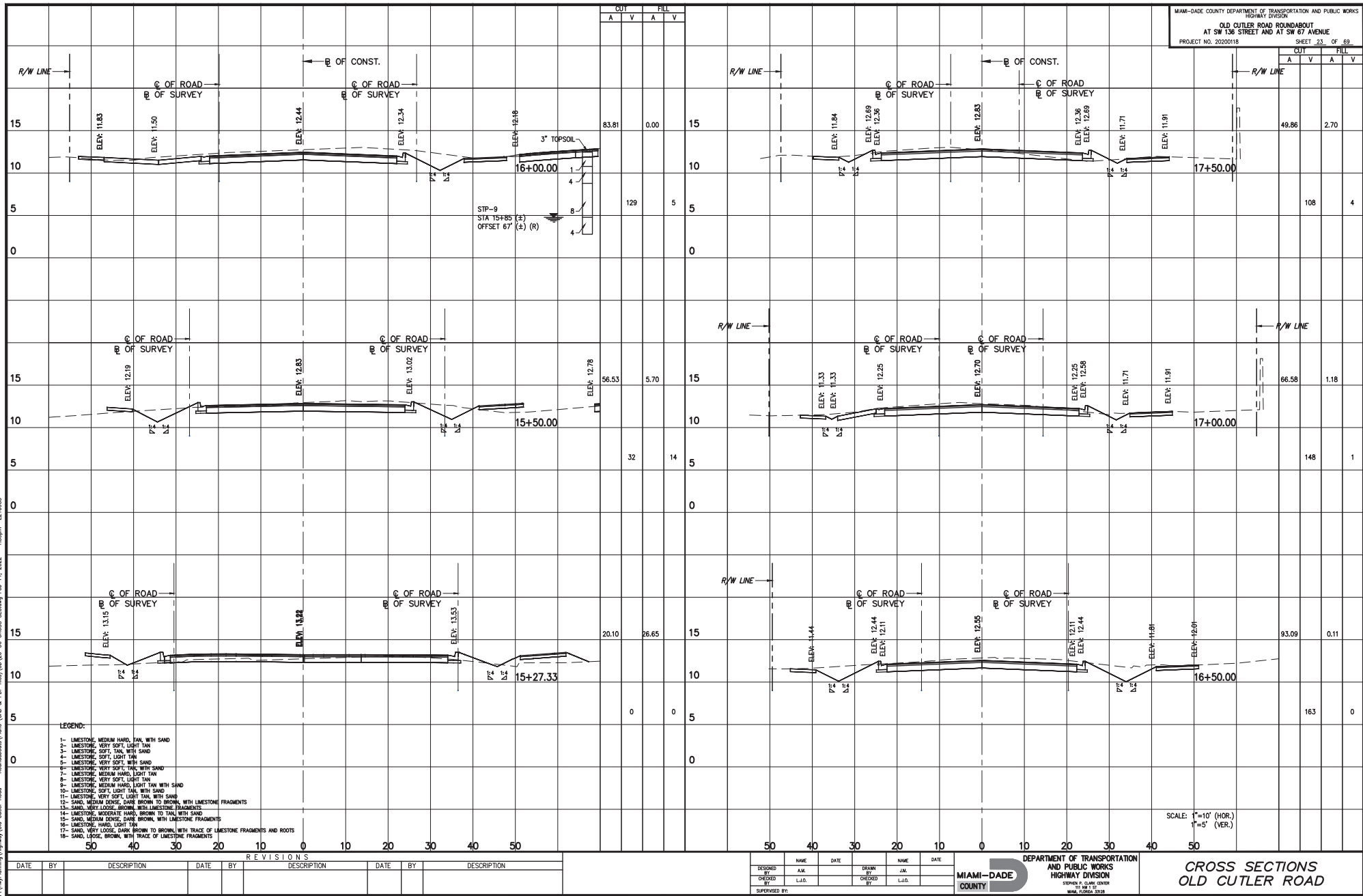


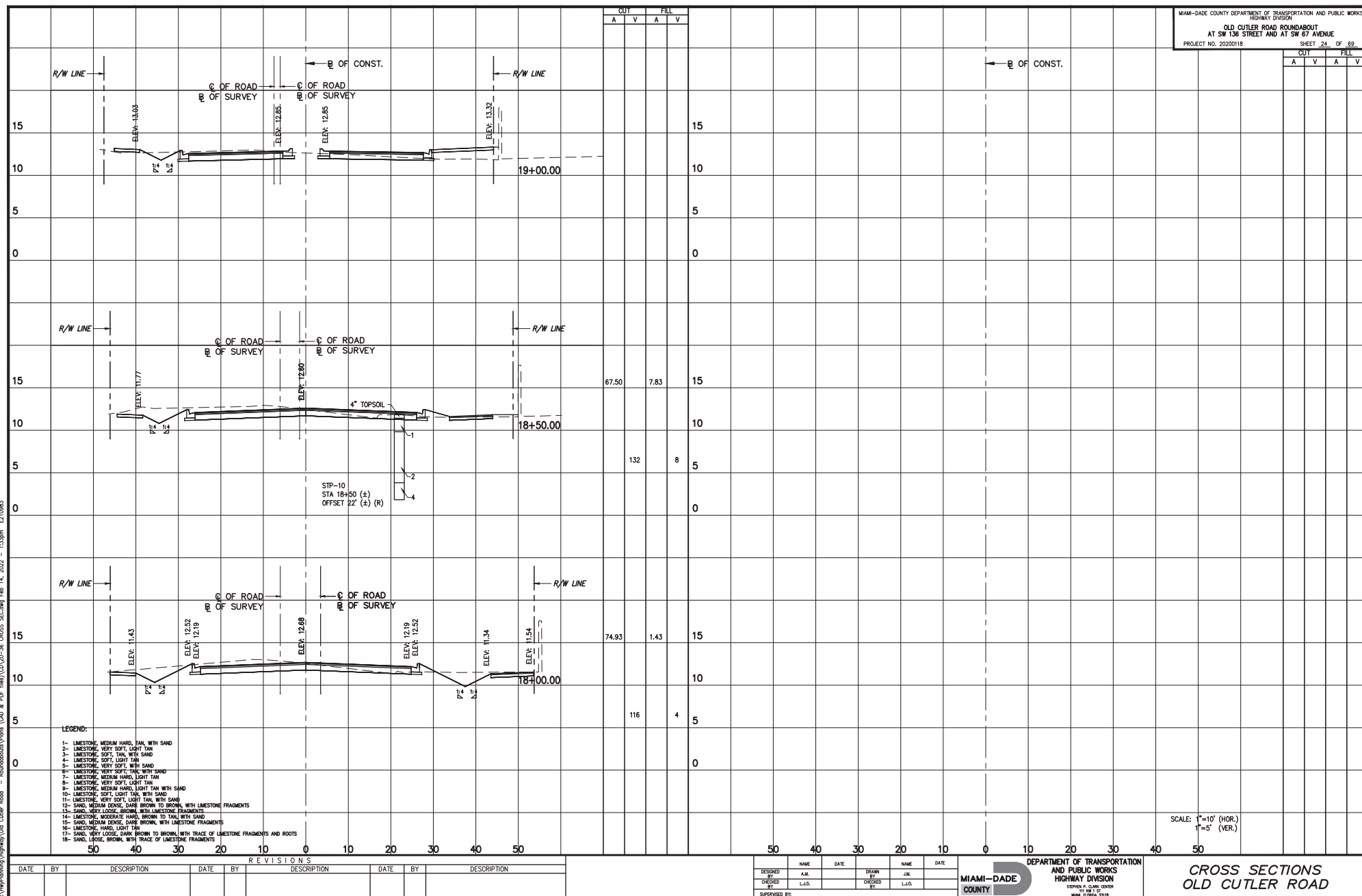
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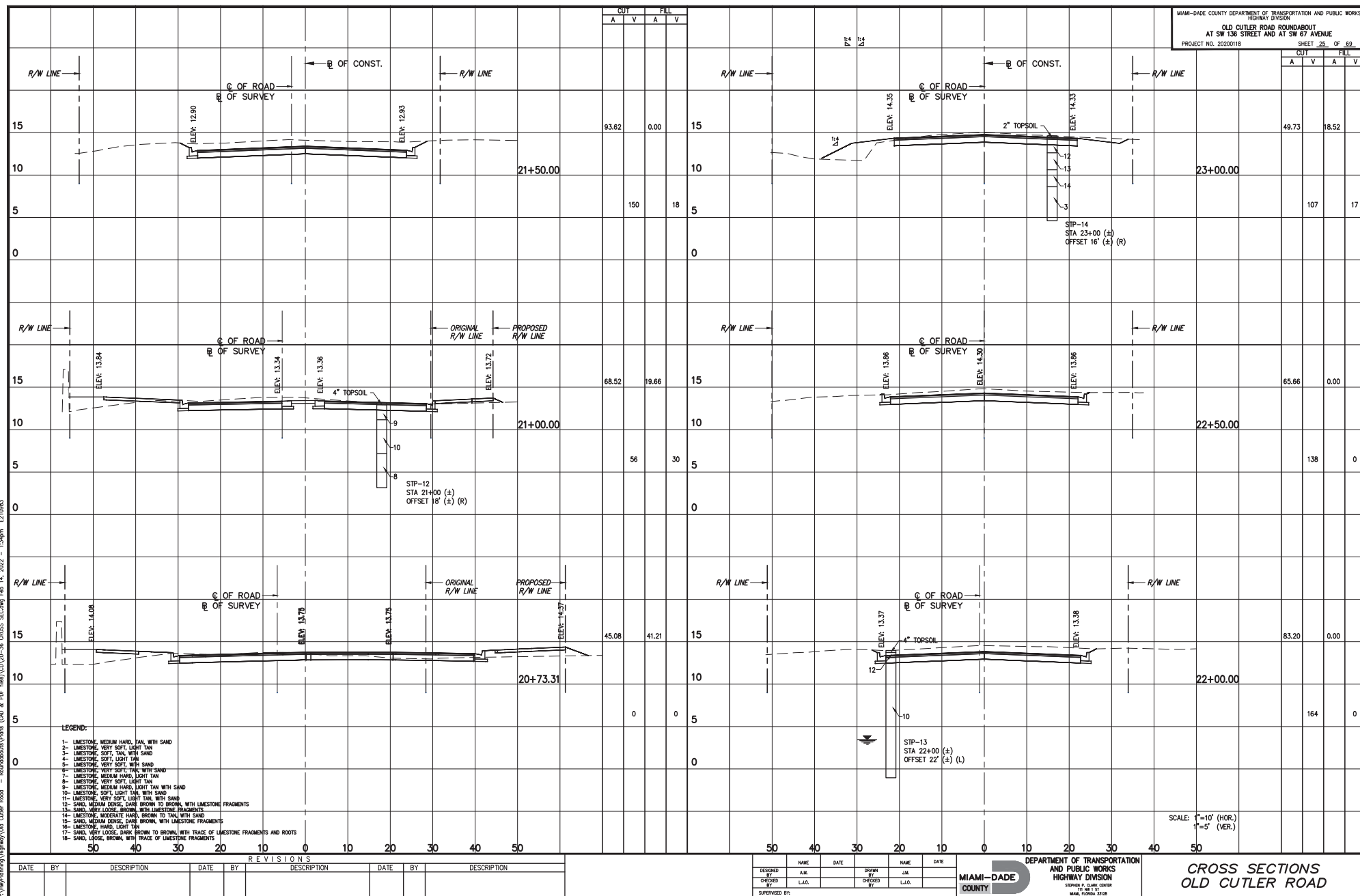
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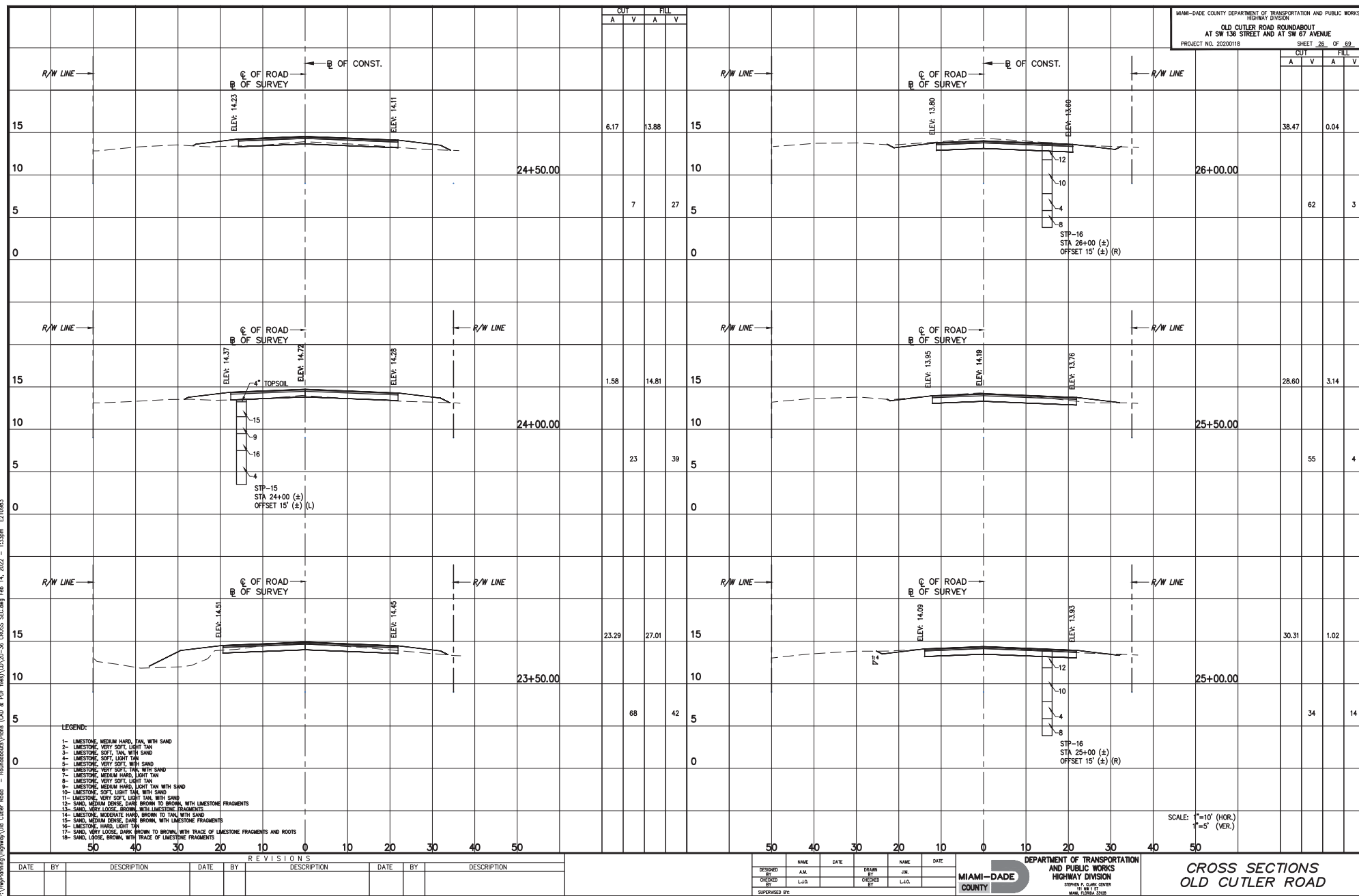






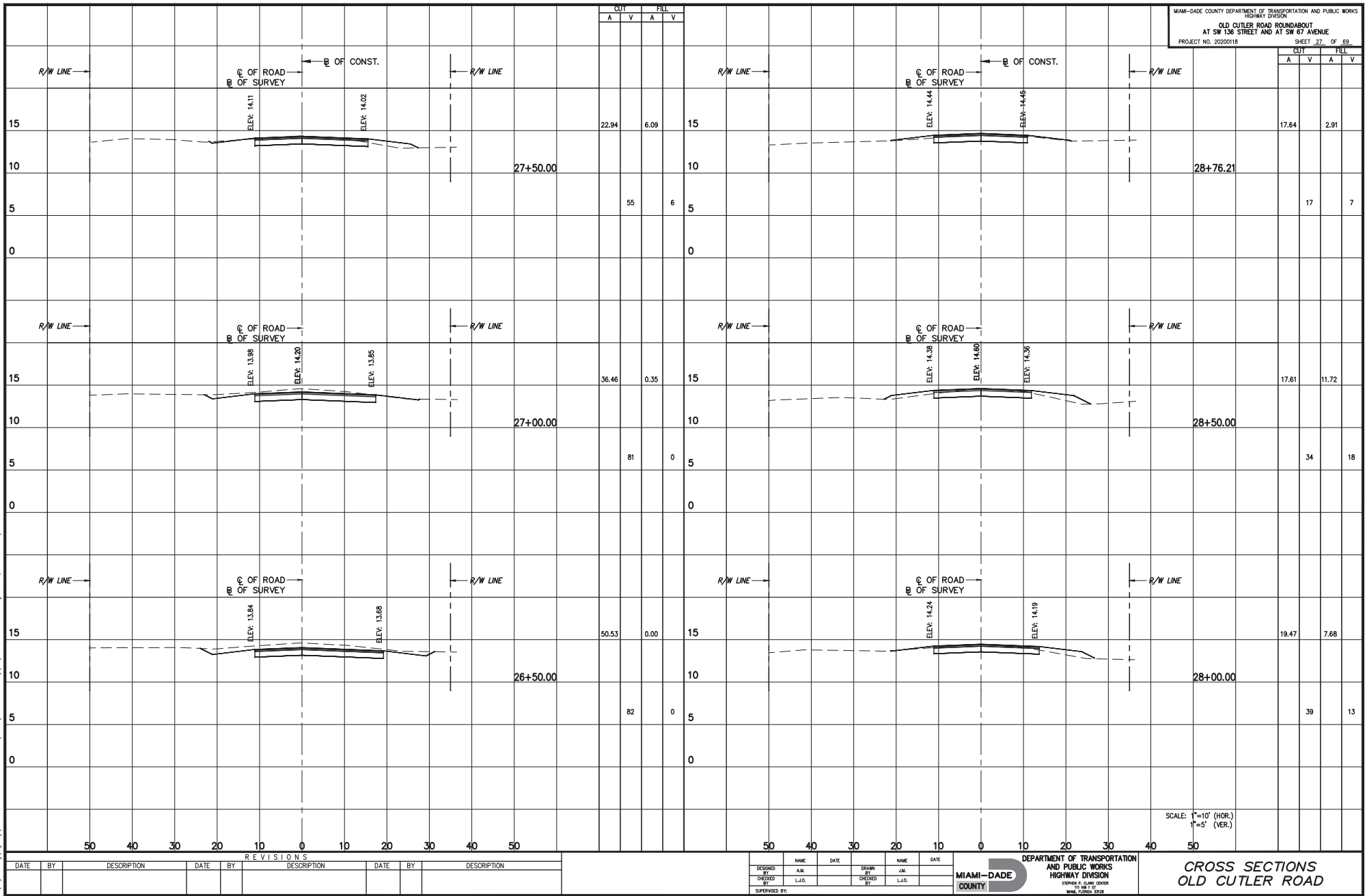


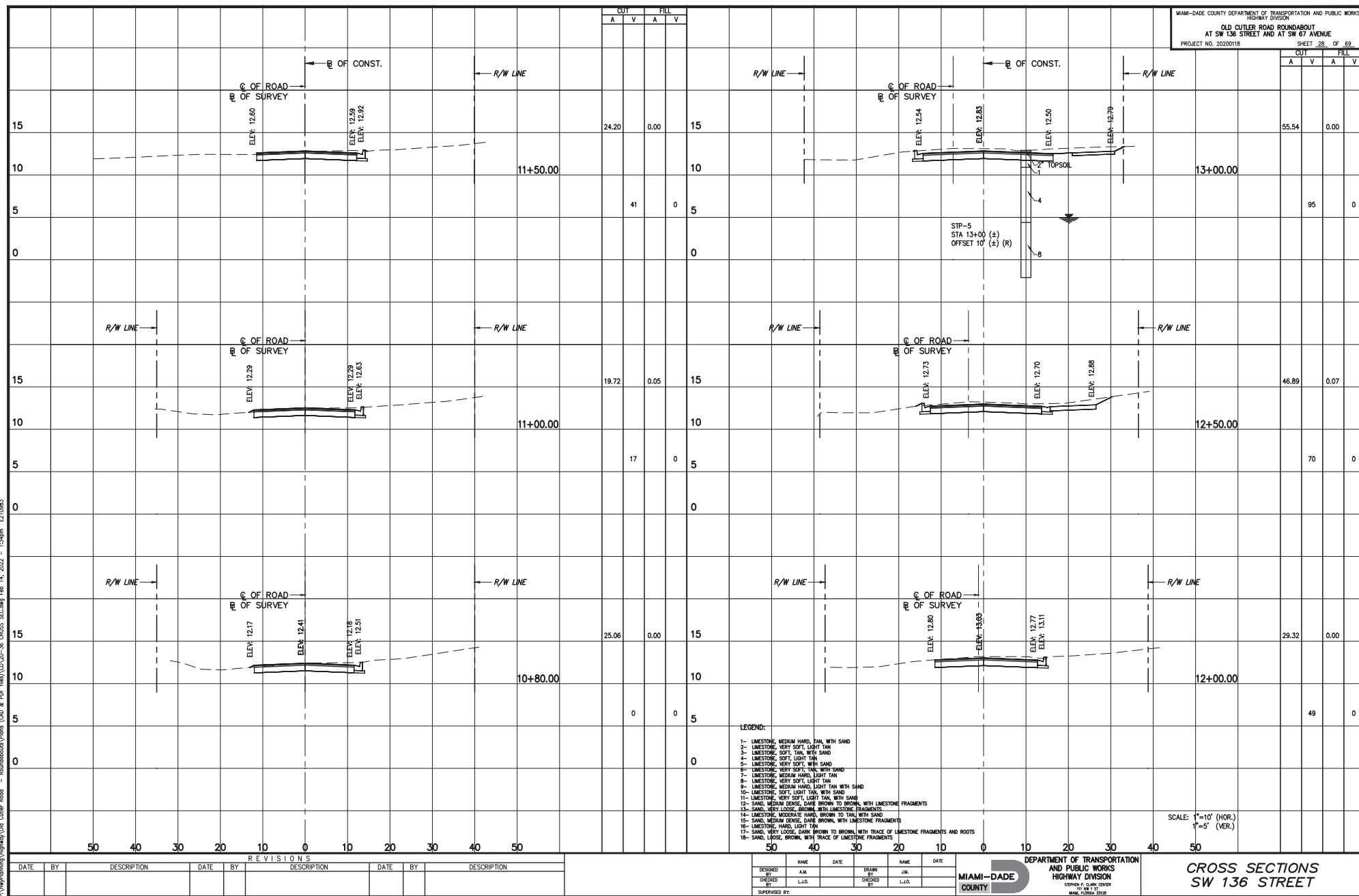






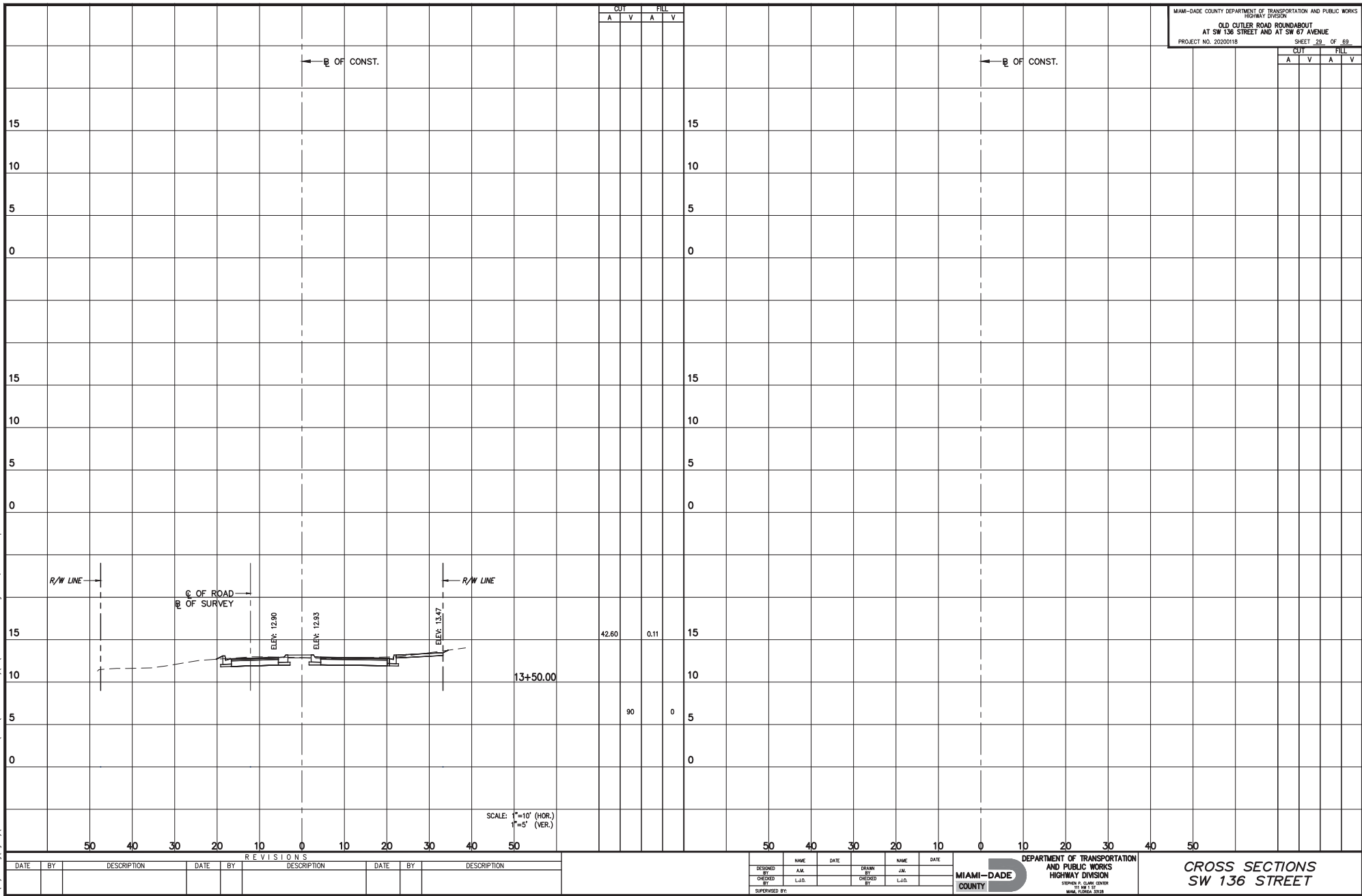
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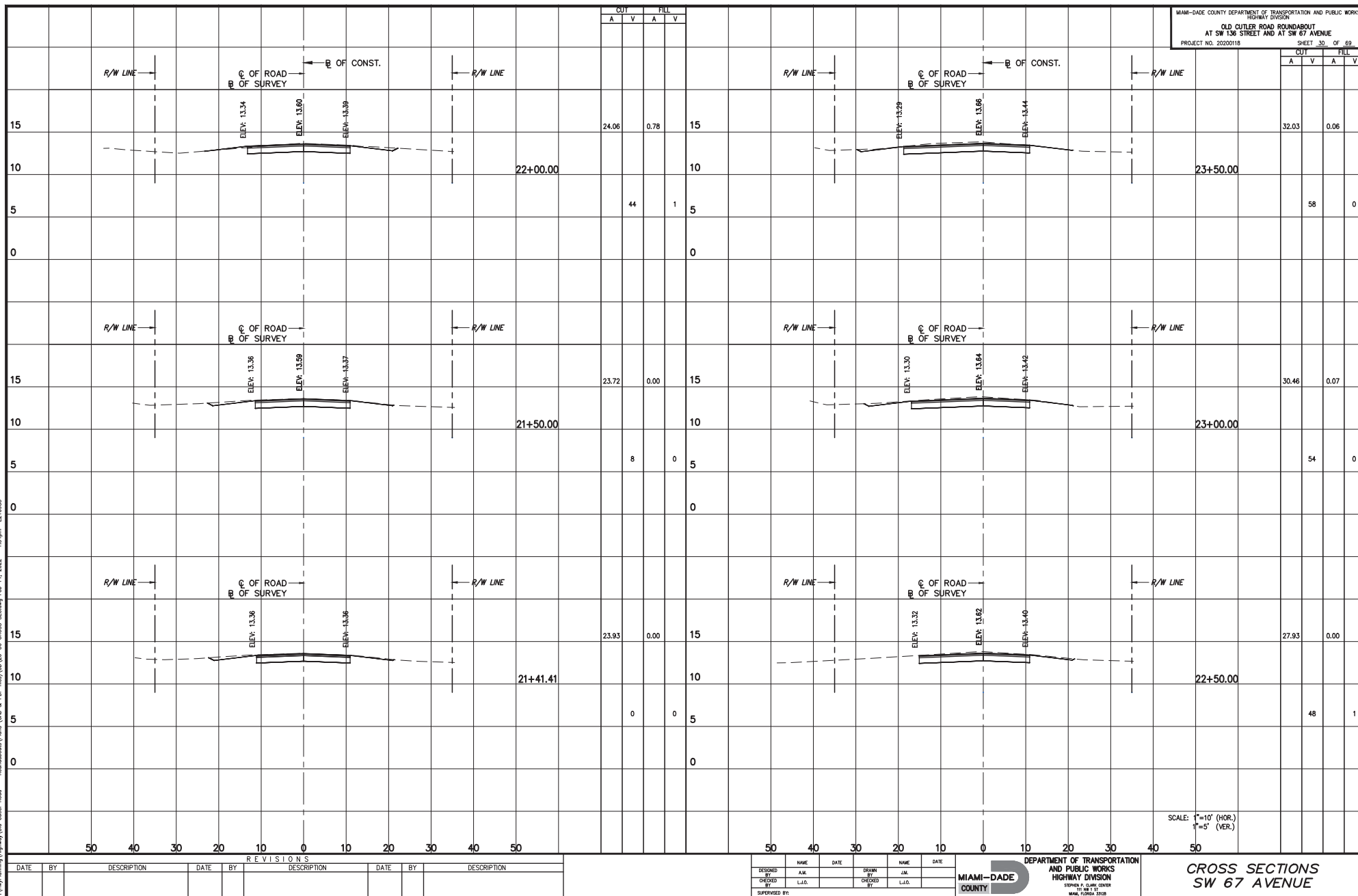




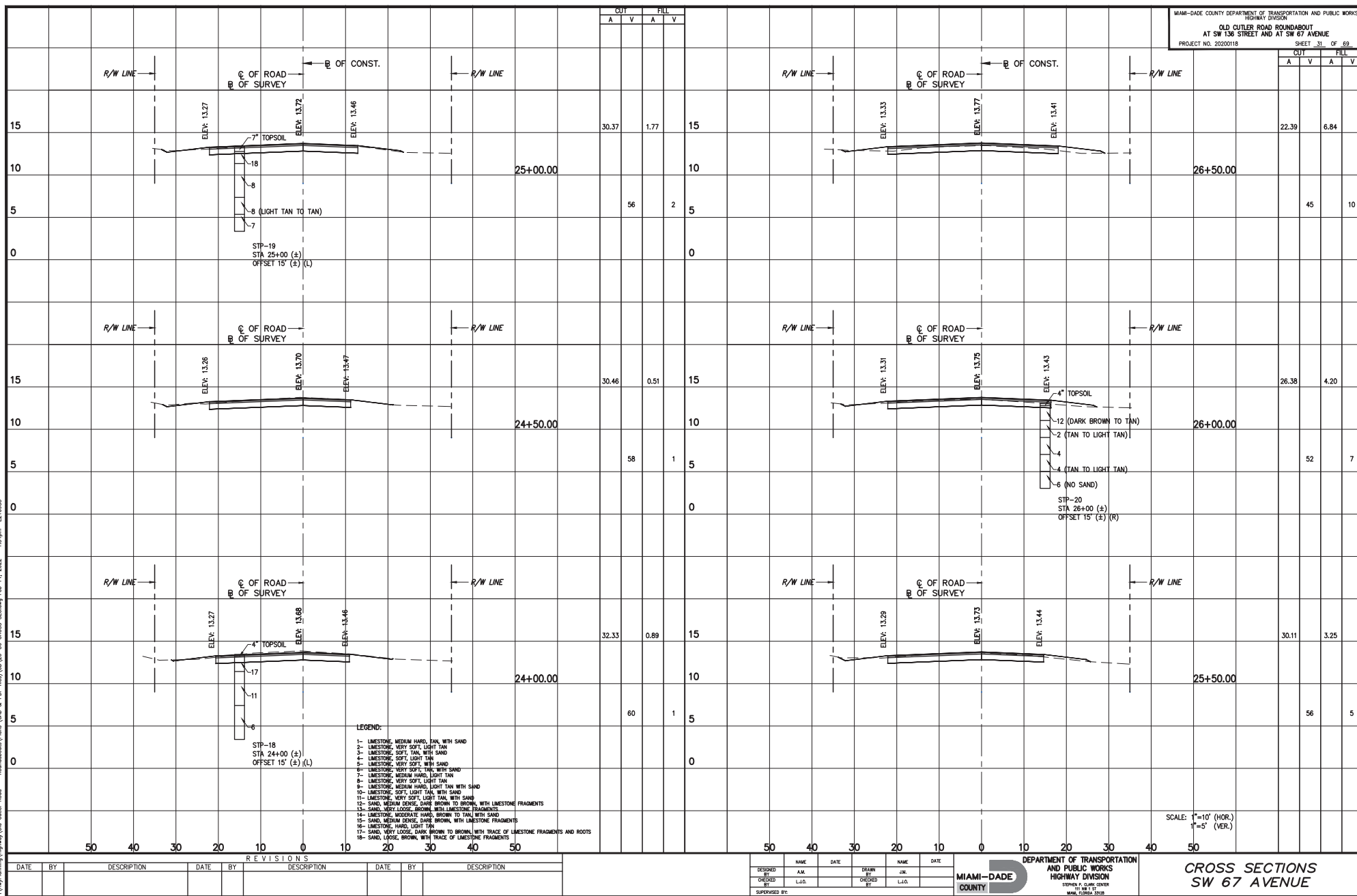
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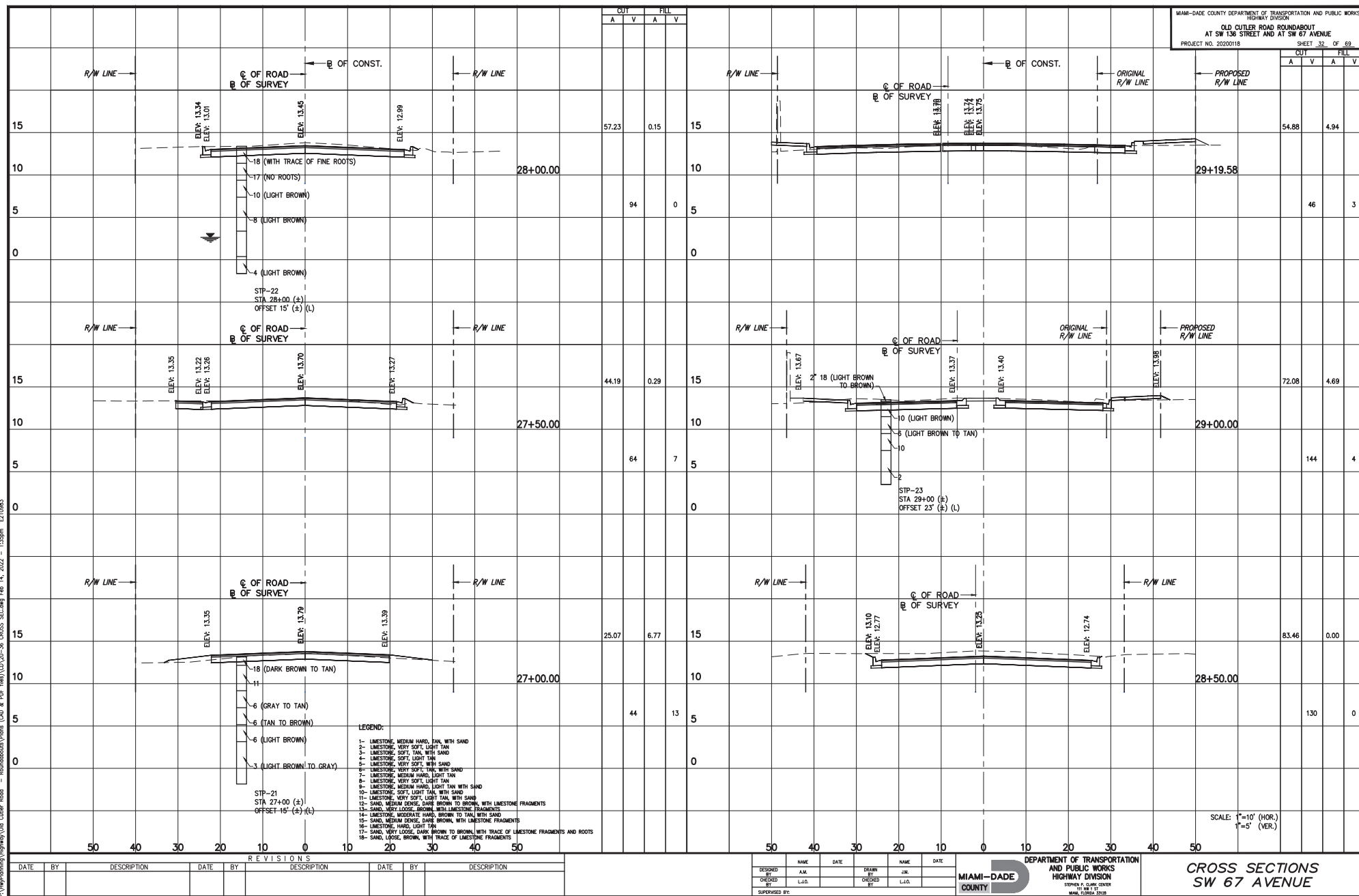


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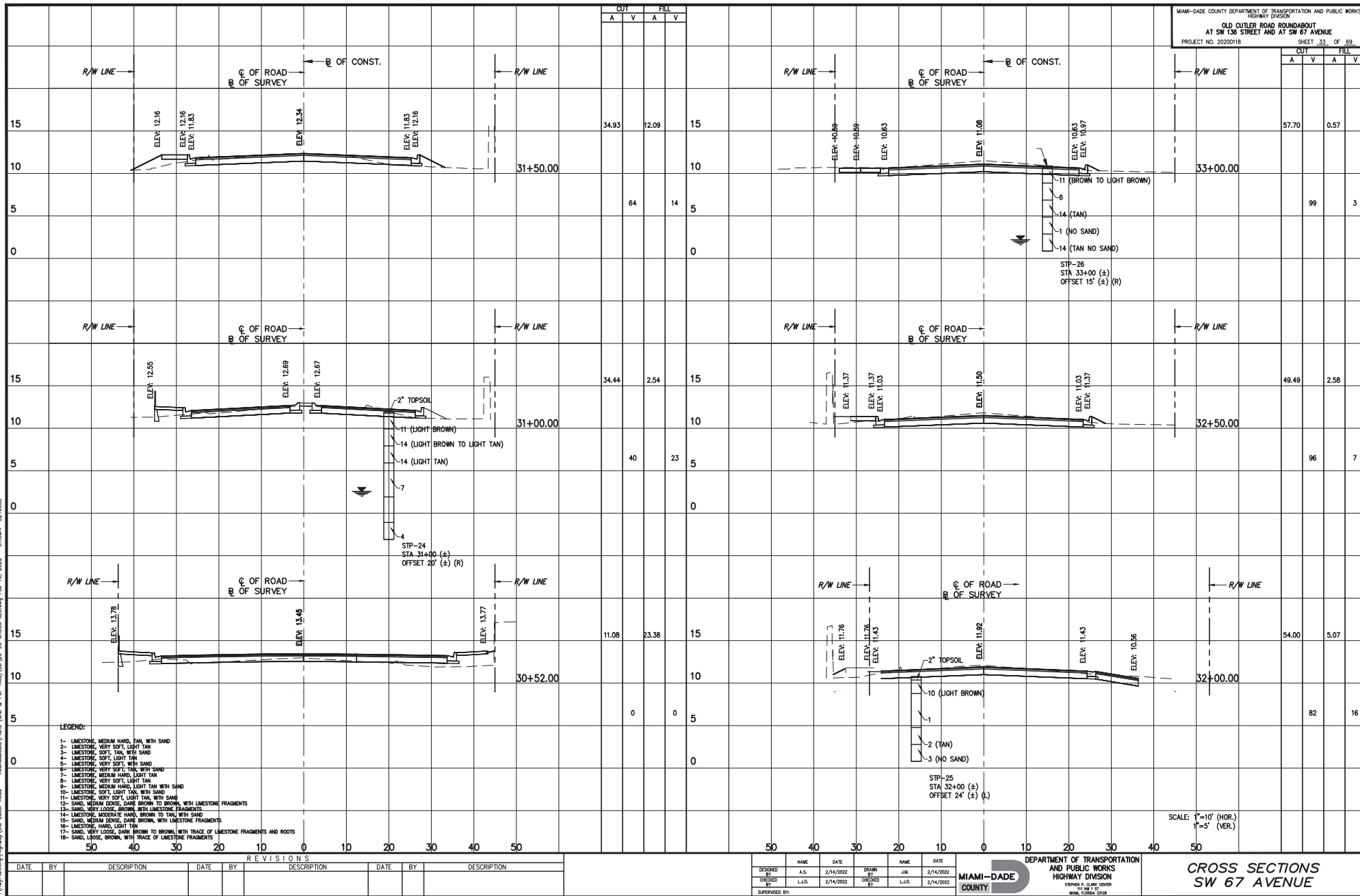








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