



**Addendum No. 1**

Addendum No.1 form shall be part of the original ITB NO. 23-10 FRANJO ROAD ROADWAY IMPROVEMENTS PROJECT document and modifies the original ITB as noted below:

**REVISIONS TO THE ORIGINAL ITB DOCUMENTS BELOW: “RED”**

**Invitation to Bid (ITB) No. 23-10  
FRANJO ROAD ROADWAY IMPROVEMENTS PROJECT  
Town of Cutler Bay  
Florida Town Project ITB  
No. 23-10**

**BID FORM**

The following Bid is presented to assist the Town in evaluating the Bid. The Total Bid Amount will include all items described in the Bid Documents. Bid unit prices stated in this proposal include all costs and expenses for labor, equipment, materials, swale restoration, clearing and grubbing, demolition, debris removal, disposal, root pruning, preparation, compaction, restoration, temporary striping, inlet protection (Baled Hay, Straw, or Filter Fabric), contractor’s overhead and profit. Unit prices for the various work items are intended to establish a total price for completing the project in its entirety. At the end of the project the contractor shall furnish as-built plans signed and sealed by a professional land surveyor to the Town of Cutler Bay. The contractor shall include in the Bid price any work item and materials for which a separate pay item has not been included in the Bid Form. All work and incidental costs shall be included for payment under the several scheduled items of the overall contract, and no separate payment will be made thereof.

Payment shall be made on the basis of Work actually performed and completed.

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
<u>General Items</u>					
101-1	Mobilization <del>(5%)</del>	1	LS	\$	\$
102-1	Maintenance of Traffic and Access <del>(5%)</del>	1	LS	\$	\$
110-1-1	Clear and Grubbing	1	LS	\$	\$
104-1	Prevention, Control and Abatement of Erosion and Water Pollution	1	LS	\$	\$
<b>110-8</b>	<b>Back of Sidewalk Restoration</b>	<b>1</b>	<b>LS</b>	<b>\$</b>	<b>\$</b>
120-1	Regular Excavation	20,293	CY	\$	\$
120-6	Embankment	3,098	CY	\$	\$
160-40	Type "B" Stabilization (12") (Min. L.B.R. 40)	<b>43,377 48,148</b>	SY	\$	\$
210-1-2	Limerock Base (8") (Primed)	44,666	SY	\$	\$
327-70-5	Milling Existing Asphalt Pavement, 2" Avg. Depth	576	SY	\$	\$

334-2-13	Type Structural Course HWA (Traffic C) (2")	4,771	TN	\$	\$
337-7-83	Friction Course Type FC-9.5 HWA (1" Thick)	2,386	TN	\$	\$
425-110	Modify Existing Gutter Inlet to Manhole (Cover)	4	EA	\$	\$
425-6	Adjust Existing Valve Boxes, Mail-Boxes, Meter Boxes, Fire Hydrants Relocation, Manhole Covers and Catch Basins	1	LS	\$	\$
425-1-201	Inlets, Curb, Type P-9, 42"x42", <10'	3	EA	\$	\$
425-1-201	Inlets, Curb, Type P-9, 48" ø, <10'	<del>18</del> 13	EA	\$	\$
425-1-203	Inlets, Curb, Type J-9, 60"ø, <10'	<del>6</del> 5	EA	\$	\$
425-1-600F	Inlets, Curb, Type P-10M, 48"ø, <10' (including frame & grate)	<del>29</del> 25	EA	\$	\$
425-1-602	Inlets, Curb, Type J-10M, 60"ø, <10' (including frame & grate)	<del>4</del> 3	EA	\$	\$
425-1-331	Inlets, Curb, Type P-3, 48" ø, <10'	<del>7</del> 6	EA	\$	\$
425-1-341	Inlets, Curb, Type P-4, 48" ø, <10'	<del>6</del> 5	EA	\$	\$
425-1-351	Inlets, Curb, Type P-5, 48" ø, <10'	<del>12</del> 10	EA	\$	\$
425-1-361	Inlets, Curb, Type P-6, 42"x42" <10'	2	EA	\$	\$
425-1-361	Inlets, Curb, Type P-6, 48" ø <10'	<del>29</del> 23	EA	\$	\$
425-1-461	Inlets, Curb, Type J-6, 60"ø, <10'	<del>3</del> 2	EA	\$	\$
425-1-521	Inlets, Type C, <10'	<del>2</del>	EA	\$	\$
425-1-541	Inlets, Type D, <10'	1	EA	\$	\$
425-2-41	Manholes, P-7T, 48"ø, <10'	3	EA	\$	\$
425-2-72	Manholes, J-7T, 60"ø, <10'	<del>46</del> 39	EA	\$	\$
430-175-115	Pipe Culvert, Optional Material, Round, 15" S/CD (FDOT Approved 100 Year Design Service)	3,721	LF	\$	\$
430-175-124	Pipe Culvert, Optional Material, Round, 24" S/CD (FDOT Approved 100 Year Design Service)	160	LF	\$	\$
430-175-136	Pipe Culvert, Optional Material, Round, 36" S/CD (FDOT Approved 100 Year Design Service)	1,335	LF	\$	\$
443-70-36	Exfiltration Drain, 36" (Includes Ballast Rock, Trench & Plastic Filter Fabric)	6,549	LF	\$	\$
520-1-10A	Concrete Curb & Gutter, Type "F" (includes cost of limerock)	21,538	LF	\$	\$
520-2-12	Concrete Curb, Type "D" (includes cost of limerock)	4,353	LF	\$	\$
520-2-8A	Concrete Curb, Type "RA" (includes cost of limerock)	375	LF	\$	\$
522-1-1	Concrete Sidewalk Reconstruction (4" Thick) Category 1	8,288	SY	\$	\$
522-2	Concrete Sidewalk Reconstruction (6" Thick, 3,000 PSI @ 28 days)	8,680	SY	\$	\$
522-4E	Concrete Slab for Bus Shelter (8" Thick)	178	SY	\$	\$

522-8E	Concrete Crosswalk (12" Thick)	1,247	SY	\$	\$
523-1-3	Green Patterned Pavement	154	SY	\$	\$
526-1-1	Concrete Paver Road Surface (including Pavers, Concrete Slab, Compaction)	293	SY	\$	\$
527-1	Detectable Warning Surface	104	SY	\$	\$
700-1-40	Sign Single Post(R1-1/D3-1) (Stop Sign) (Intersecting Street Names)	20	EA	\$	\$
700-1-40	Sign Single Post(D1-1d) (Street Names) (Less than 12 SQ.FT.)	7	EA	\$	\$
700-1-40	Sign Single Post (R1-2) (Yield Sign) (Less than 12 SQ.FT.)	9	EA	\$	\$
700-1-40	Sign Single Post(R2-1) (Speed Limit) (Less than 12 SQ. FT.)	16	EA	\$	\$
700-1-40	Sign Single Post (R3-17) (Bike Lane) (Less than 12 SQ. FT.)	22	EA	\$	\$
700-1-40	Sign Single Post (R3-17/R2-17A) (Bike Lane) (Ahead) (Less than 12 SQ. FT.)	1	EA	\$	\$
700-1-40	Sign Single Post (R3-17/R2-17B) (Bike Lane) (Ends) (Less than 12 SQ. FT.)	7	EA	\$	\$
700-1-40	Sign Single Post (R4-11) (Bike may Use Full Lane) (Less than 12 SQ. FT.)	1	EA	\$	\$
700-1-40	Sign Single Post (R4-7/OM1-3) (Keep Right) (Object Marker) (Less than 12 SQ. FT.)	7	EA	\$	\$
700-1-40	Sign Single Post (W2-6/W13-1) (Traffic Circle) (15 MPH Speed Limit) (Less than 12 SQ. FT.)	7	EA	\$	\$
700-1-40	Sign Single Post(S1-1/W16-9P) (School Crossing) (Ahead) (Less than 12 SQ. FT.)	1	EA	\$	\$
700-1-40	Sign Single Post(W11-2/W16-7PL) (Crossing Sign) (Arrow) (Less than 12 SQ. FT.)	18	EA	\$	\$
700-1-40	Sign Single Post(W11-2/W16-9P) (School Crossing) (Ahead) (Less than 12 SQ. FT.)	1	EA	\$	\$
700-1-40	Sign Single Post(R6-4) (Roundabout Directional Chevron) (Less than 12 SQ. FT.)	7	EA	\$	\$
700-1-40	Sign Single Post (Emergency Evacuation Bus Pick-up Sign)	1	EA	\$	\$
700-1-50	Relocate Existing Sign (Single Post)	12	EA	\$	\$
706-3	Reflective Pavement Marker (See Plans for Details)	748	EA	\$	\$
711-11-120	Thermoplastic, White, Solid, 6"	13,365	LF	\$	\$
711-11-123	Thermoplastic, White, Solid, 12"	2,355	LF	\$	\$
711-11-125	Thermoplastic, White, Solid, 24"	1,145	LF	\$	\$
711-11-221	Thermoplastic, Yellow, Solid, 6"	9,410	LF	\$	\$
711-11-224	Thermoplastic, Yellow, Solid, 18"	290	LF	\$	\$
711-11-241	Thermoplastic, Yellow, 10'-30' Skip, 6"	5,665	LF	\$	\$

711-11-141	Thermoplastic, White, 2'-4' Skip, 6"	764	LF	\$	\$
711-11-141	Thermoplastic, White, 2'-2' Dotted, 6"	110	LF	\$	\$
711-11-160	Thermoplastic, White, Message (See Plans for Details)	39	EA	\$	\$
711-11-180	Thermoplastic, White, Yield Line	85	LF	\$	\$
<b>Sub-Total Roadway Items</b>					<b>\$</b>

<b>LANDSCAPE ITEMS</b>					
<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QUANTITY</b>	<b>UNIT</b>	<b>UNIT PRICE</b>	<b>AMOUNT</b>
575-1	Sodding (See Landscape Plans) Landscaping Plans (including trimming of existing trees as necessary, root pruning, grading as necessary, new planting of trees, plants, shrubs, tree removals, tree relocations, tree protection, mulch, watering, warranty, etc.)	1	LS	\$	\$
575-2	Sodding (including watering, warranty)	13,210	SY	\$	\$
<b>Sub-Total Landscape Items</b>					<b>\$</b>

<b>SIGNALIZATION ITEMS</b>					
<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QUANTITY</b>	<b>UNIT</b>	<b>UNIT PRICE</b>	<b>AMOUNT</b>
630-2-12	Conduit (Under Pavement) Furnish & Install Directional Bore	357	LF	\$	\$
635-2-11	Pull Boxes, Furnish & Install, 13"x24" Cover Size	5	EA	\$	\$
646-1-11	Aluminum Signal Pedestrian Pole, Furnish & Install	2	EA	\$	\$
646-1-12	Aluminum Signal Pole, Furnish & Install	2	EA	\$	\$
650-1-18	Furnish and Install Traffic Head (1 Way, 5 sections) (Backplates included)	2	AS	\$	\$
660-2-106	Loop Assembly, Furnish & Install (Type F, 6'x30')	4	EA	\$	\$
650-1-60	Remove Traffic Head (1 way, 3 sections)	2	AS	\$	\$
650-1-74	Relocate Traffic Head (1 way, 3 sections)	2	AS	\$	\$
665-1-60	Remove Pedestrian Detector	2	EA	\$	\$
<b>Sub-Total Signalization Items</b>					<b>\$</b>

<b>ELECTRICAL ITEMS</b>					
<b>ITEM</b>	<b>DESCRIPTION</b>	<b>QUANTITY</b>	<b>UNIT</b>	<b>UNIT PRICE</b>	<b>AMOUNT</b>
630-2-11	Conduit, F&I, Open Trench	13,421	LF	\$	\$
630-2-12	Conduit, F&I, Directional Bore	2,332	LF	\$	\$
635-2-11	Pull & Splice Box, F&I, 13"x24" Cover Size	126	EA	\$	\$
639-1-121	Electrical Power Service, F&I, Underground, Meter Furnished by Power Company	2	AS	\$	\$



639-2-16	Electrical Service Wire, F&I	900	LF	\$	\$
639-3-12	Electrical Service Disconnect, F&I, Pole Mount	2	EA	\$	\$
641-2-11	Prestressed Concrete Pole, F&I, Type P-II Pedestal	2	EA	\$	\$
715-1-12	Lighting Conductors, F&I, Insulated, No. 8 to No. 6	56,679	LF	\$	\$
715-7-11G	Load Center, F&I, Secondary Voltage	<del>1</del> 2	EA	\$	\$
700-7-212	Dynamic Message Sign, Furnish & Install, WO-UPS, Monochrome (Including foundation, rock cladding, utility connection)	2	EA	\$	\$
715-500-1C	Pole Cable Distribution System, F&I, Conventional	<del>93</del> 94	EA	\$	\$
715-511-140	Light Pole Complete, Special Design, F&I, Single Arm Shoulder Mount, Aluminum, 40'	92	EA	\$	\$
715-516-115	Light Pole Complete, Special design (Furnish & Install, Pole Top Mount, Aluminum and 15 feet Mounting Height)	2	EA	\$	\$
715-521-140	Spare Light Pole Assembly	18	EA	\$	\$
715-69-000	Removal of exist. Street Light Fixture (Optional to be used at Town discretion)	33	EA	\$	\$
<b>Sub-Total Electrical Items</b>					\$

**MISCELLANEOUS ITEMS**

ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
750	Furnish & Install Bus Shelter Complete (Including bicycle bollard, trash receptacle and bench)	12	EA	\$	\$
750*	Additional Bench (same style as Bus Shelter Bench) (including concrete slab)	6	EA	\$	\$
800-7	Permit Allowance	1	LS	\$25,000.00	\$25,000.00
800-8	Off Duty Police Allowance	1	LS	\$100,000.00	\$100,000.00
980	Safety Act	1	LS	\$1,000.00	\$1,000.00
999	Contingency (15%)	1	LS	\$1,500,000.00	\$1,500,000.00
<b>Sub-Total Miscellaneous Items</b>					\$
<b>GRAND TOTAL</b>					\$

BASE BID AMOUNT: \$ \_\_\_\_\_

BASE BID AMOUNT (IN WORDS): \_\_\_\_\_

## BID ITEM NOTES

- 101-1** Is a lump sum pay item for all mobilization costs. Includes all costs associated with leasing of staging area. Includes the construction of two (2) project signs that shall be displayed at each approach to the work zone of the project area. The intent is that the signs will be freestanding. The sign shall display on both sides the project name, town logo, elected officials, engineer, and contact information. Shop drawings must be submitted for approval prior to ordering the projects signs. Photos of the actual project signs must be submitted for approval prior to installation of the project signs.
- 102-1** To be accomplished in accordance with the Florida Department of Transportation index 600 series, the manual of uniform traffic control devices for streets and highways, U.S. Department of Transportation Federal Highway Administration (ANSI D6 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, traffic signal modification for traffic control, etc.
- 110-1-1** Includes removal of existing pavement, base, sub-grade concrete sidewalk, driveways, curb and gutter, drainage structures, slab covered trench and pipes, miscellaneous concrete, vegetation, trees, 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. For portions of existing drainage pipe that are under existing trees to remain shall be plugged with brick and mortar at each end and abandoned in place.
- 425-1** Cost of baffle, materials, metal pipe encasement, inlet and manhole pavement and base, labor & construction shall be included in cost of structures.
- 425-6** Within pavement area, all existing valves, manhole covers, utility boxes etc. Are to be adjusted to finished grade. All meter boxes within sidewalks shall be adjusted and replaced as needed to construct the new sidewalk. Fire hydrants shall be relocated away from the street as shown on the plans. All mailboxes in conflict with construction shall be protected and relocated as required; this includes temporarily during construction as needed. These items are contingent upon field conditions and may be increased, decreased, or eliminated by the engineer.
- 443-70-4** Includes the cost of excavation to plan elevation, perforated pipe, pea rock 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.
- 520-1-10** Includes drop curb at driveways and 3 ft of curb ending as directed by the engineer.
- 522-2** Estimated quantity for driveways to be constructed at locations shown in the plans and/or as directed by the engineer.

**522-2** All sidewalk ramps at intersections shall be 6" thick. All existing 5' wide sidewalks at right-of-way of new driveways shall be reconstructed to 6" thick concrete.

**527-1** Detectable warning surface must be safety yellow and imbedded in concrete, and from the most recent of tested products.

- a. Use detectable warnings listed on the FDOT approved products list (APL) and that have been further evaluated and found acceptable by the department. At the option of the contractor, an "or equal" product evaluation request, for an equivalent FDOT APL approved product that meets or exceeds the specification stipulated herein, may be submitted in writing to the engineer for review and acceptance.
- b. The following products, subject to continued listing on the FDOT APL, have been evaluated by the department for use on department projects:

SURFACE APPLIED DETECTABLE WARNING DEVICES		
MANUFACTURER	PRODUCT	APL NUMBER
ENGINEERED PLASTICS, INC.	ARMOR-TILE SURFACE APPLIED INLINE DOME	527-000-006

EMBEDDED DETECTABLE WARNING DEVICES		
MANUFACTURER	PRODUCT	APL NUMBER
ADA SOLUTIONS, INC.	CAST-IN-PLACE COMPOSITE TACTILE	527-000-003
ADA SOLUTIONS, INC.	REPLACEABLE WET SET COMPOSITE	527-000-018
ENGINEERED PLASTICS, INC	ARMOR-TILE REPLACEABLE CAST IN PLACE	527-000-026
ENGINEERED PLASTICS, INC.	ARMOR-TILE CAST-IN-PLACE INLINE DOME TILE	527-000-027
CAPE FEAR SYSTEMS, LLC	ALERTCAST (REPLACEABLE) CAST-IN-PLACE	527-000-029
ACCESS PRODUCTS, INC.	ACCESS TILE REPLACEABLE CAST IN PLACE	527-000-033
STRONGGO INDUSTRIES	TEKWAY DOME TILE	527-000-035
TUFTILE, INC	TUFTILE CAST IRON (WET-SET) REPLACEABLE	527-000-044



## **Addendum No. 1**

The following plan sheets have been revised and will be part of the addendum.

Cover Sheet

C-02 Thru C04

C-08

C-12

C-15

C-22A (Additional Page)

C-23

C-30 Thru C-54

FDOT Index 443-002

PLANS FOR PROPOSED  
IMPROVEMENTS TO

FRANJO ROAD

FROM OLD CUTLER RD TO SW 184th Street

MIAMI-DADE COUNTY PROJECT NO. 20190519

[ROAD IMPACT FEE (RIF)]

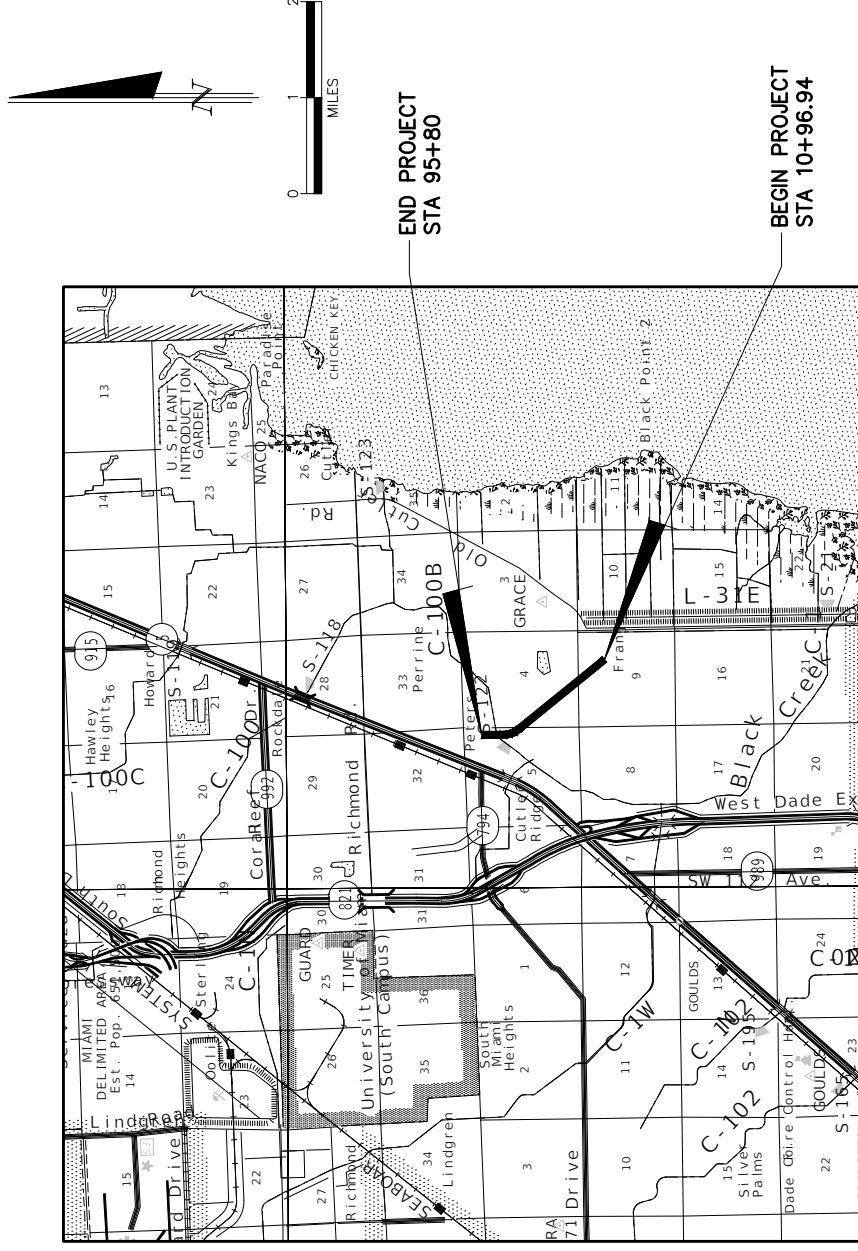
NOTE:  
ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

INDEX OF SHEETS

SHT. No.	SHEET DESCRIPTION
C-01	COVER SHEET
C-02 - C-03	TYPICAL SECTIONS
C-04	SUMMARY OF QUANTITIES
C-05	GENERAL NOTES
C-06 - C-22	PLAN & PROFILES
Δ C-22A	CONSTRUCTION DETAILS
C-23 - C-24	ROUNDABOUT GEOMETRY
C-25 - C-29	INTERSECTING STREET PROFILES
C-30 - C-54	DRAINAGE STRUCTURES
C-55 - C-64	CROSS SECTIONS
C-65 - C-75	SIGNING & PAVEMENT MARKING PLANS
C-76 - C-77	SIGNALIZATION PLANS
C-78 - C-82	MAINTENANCE OF TRAFFIC
E-01 - E-17	ROADWAY LIGHTING PLANS
LA-1 - LA-35	LANDSCAPE PLANS
A-01 - A-03	ARCHITECTURAL DETAILS
S-01 - S-03	STRUCTURAL DETAILS

STANDARD INDEX DRAWINGS

83-85	FDOT INDEX 520-001
86	DCI-01 CURB, CURB AND GUTTER
87	DCI-02 CURB INLET TYPES 1, 2, 3 & 4
88	DDI-03 CURB INLET TYPES 5 & 6
89-90	DSD-01 STANDARD DITCH BOTTOM INLETS TYPE C,D,E & H
91	DSB-01 SUPPLEMENTARY DETAILS FOR MH & INLET STRUCTURE
92	PCS-1 INLET, MANHOLE, JUNCTION BOX TYPES J & P
93	SMI-1 POLLUTION CONTROL STRUCTURE
94	SMI-2 SUPPLEMENTARY DETAILS FOR MH & INLET STRUCTURE
95	3-E SUPPLEMENTARY DETAILS FOR MH & INLET STRUCTURE
96	15-B DETAIL OF EXFILTRATION DRAIN WITH PERFORATED PIPE
97	14-A MEDIAN OPENINGS ON DIVIDED ROADWAYS
98-99	GSE-02-01 MISCELLANEOUS DETAILS
100-101	2613-M SUPERELEVATION DETAILS FOR MUNICIPAL CONSTRUCTION
102	GEC-04 STANDARD WARNING SIGN DETAILS
103	EROSION CONTROL DEVICES SILT BARRIERS
104	1-PR-A INLET PROTECTION SYSTEM DETAIL
105	1-PR-B SEDIMENT BARRIERS DETAILS
106-107	FDOT INDEX 330-001 SIDEWALK WIDENING DETAIL
108-109	FDOT INDEX 522-001 PAVED AND GRADED DRIVEWAYS
110-116	EDOT INDEX 522-002 CONCRETE SIDEWALK
117-119	EDOT INDEX 443-002 PAVEMENT MARKING & RUBBER CURB RAMP SKIMMERS FOR FRENCH DRAIN OUTLETS



LENGTH OF JOB		
ROADWAY	LIN. FT.	MILES
BRIDGE	8483.06	1.6
GROSS LENGTH OF JOB	8483.06	1.6
EXCEPTIONS	-	-
NET LENGTH OF JOB	8483.06	1.6

PREPARED FOR  
TOWN OF CUTLER BAY



BY



901 Ponce de Leon Blvd, Suite 900  
Coral Gables, Florida 33134  
www.stantec.com

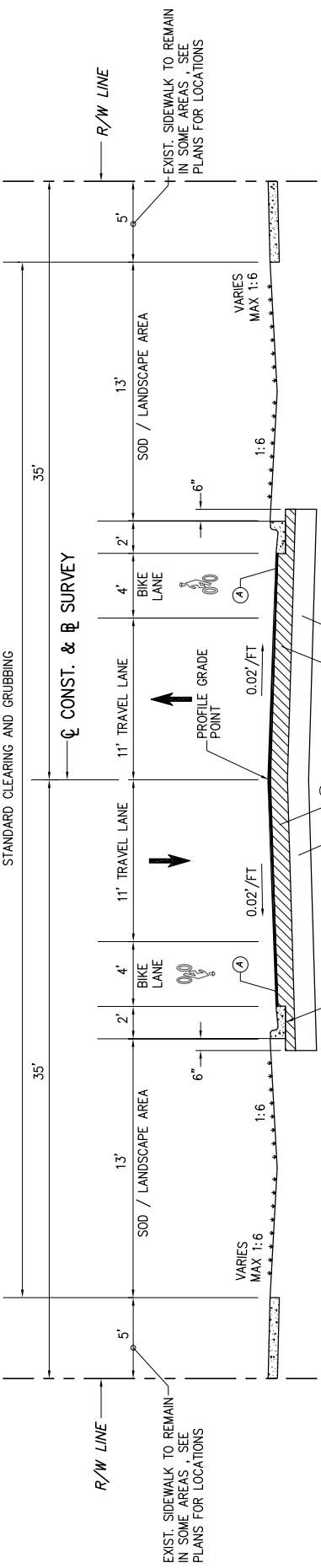
ENGINEER OF RECORD:

CARLOS HERDOCIA, P.E.  
FLORIDA REGISTRATION P.E. No. 47660

BID SET  
FEBRUARY 09, 2024

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 ROADWAY AND TRAFFIC DESIGN STANDARDS, AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AS AMENDED BY CONTRACT DOCUMENTS.





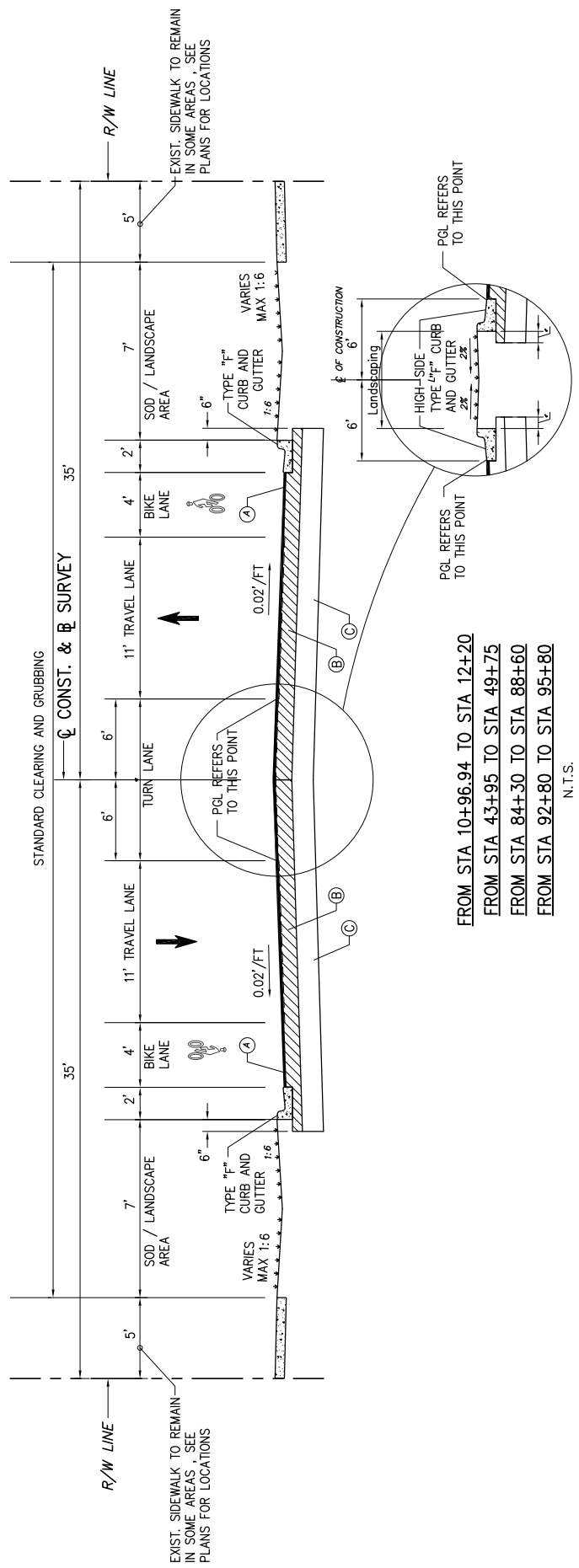
**TYPICAL SECTION NOTES:**

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 ARE TO BE INCLUDED IN COST OF C & G (ITEM 520-1-10)

**FROM STA 12+20 TO STA 92+80**

- N.T.S.
- NEW CONSTRUCTION
- (A) TYPE SP STRUCTURAL COURSE (2") (TRAFFIC C)
  - FRICITION COURSE TYPE FC-9.5(1" THICK) (110 LBS/SY)
  - (B) LIMEROCK BASE (8" THICK) (PRIMED)
  - (C) 12" STABILIZED SUBGRADE (LBR=40)

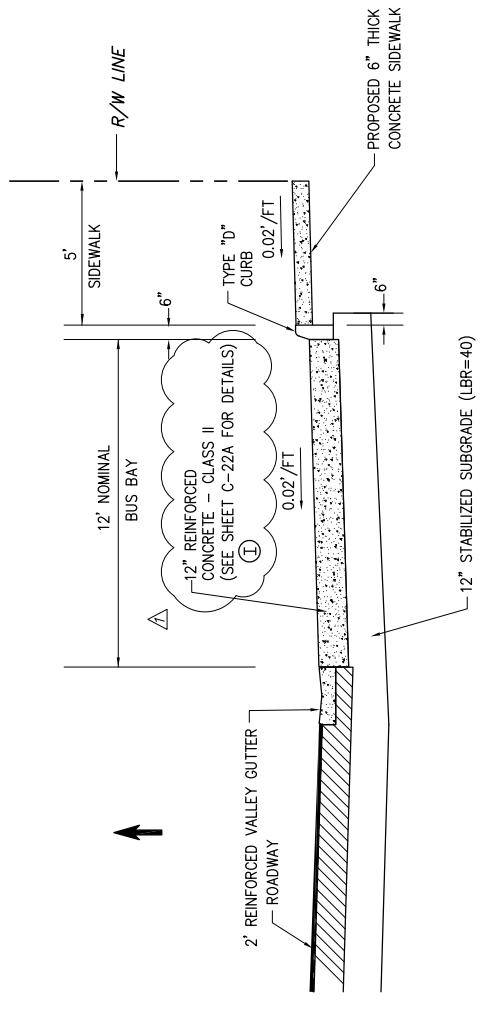
DESIGN SPEED 35 MPH



**FROM STA 10+96.94 TO STA 12+20**

- N.T.S.
- NEW CONSTRUCTION
- (A) TYPE SP STRUCTURAL COURSE (2") (TRAFFIC C)
  - FRICITION COURSE TYPE FC-9.5(1" THICK) (110 LBS/SY)
  - (B) LIMEROCK BASE (8" THICK) (PRIMED)
  - (C) 12" STABILIZED SUBGRADE (LBR=40)

N.T.S.



(I) INTEGRALLY-COLORED CONCRETE  
 LAMBERT - CORAL GABLES BEIGE

(SEE PLANS FOR LOCATIONS)  
 N.T.S.

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
2/9/2024	ADDENDUM #1							

REVISIONS	DATE	BY	DESCRIPTION

DESIGNED	DATE	NAME	DATE	NAME
CMH	02/16/2021	CMH	02/16/2021	CMH
CHECKED	DATE	NAME	DATE	NAME
CMH	02/16/2021	CMH	02/16/2021	CMH

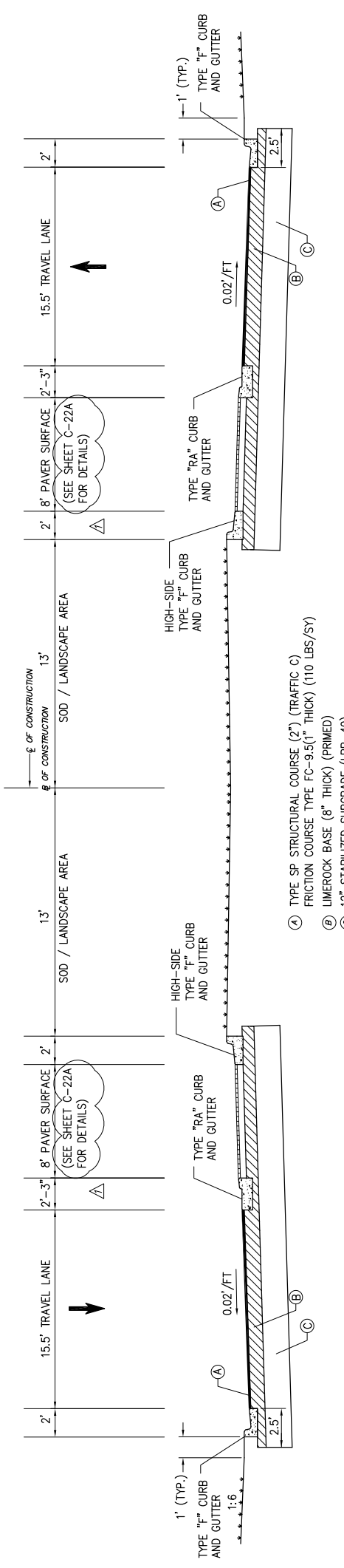
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CMH	02/16/2021	CMH	02/16/2021	CMH
CHECKED	DATE	NAME	DATE	NAME
CMH	02/16/2021	CMH	02/16/2021	CMH

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
 STEPHEN F. QUINN CENTER  
 MIAMI, FLORIDA 33128

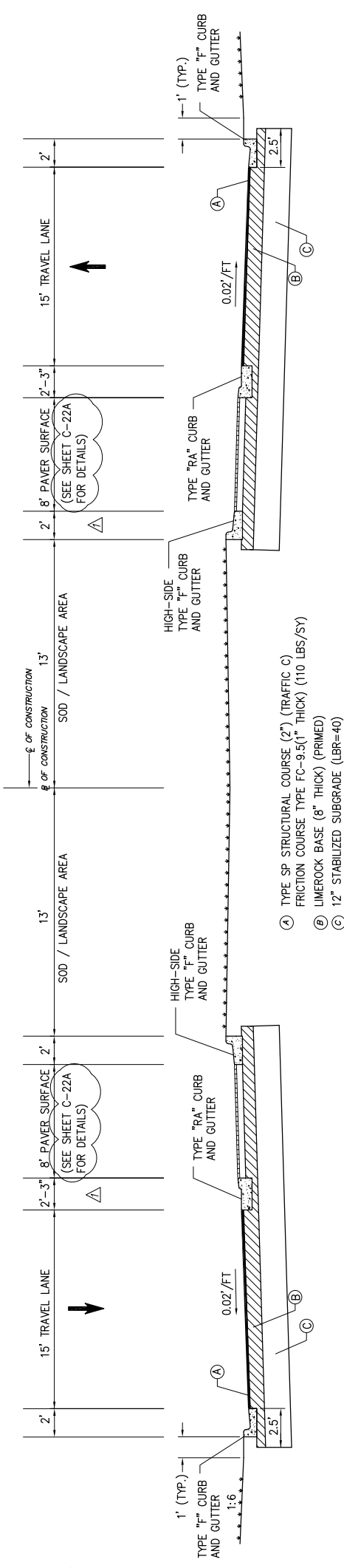


MIAMI-DADE COUNTY  
 TYPICAL SECTIONS



**GULF STREAM ROAD**  
 N.T.S.

- (A) TYPE SP STRUCTURAL COURSE (2") (TRAFFIC C)  
 FRICTION COURSE TYPE FC-9.5(1" THICK) (110 LBS/SY)
- (B) LIMEROCK BASE (8" THICK) (PRIMED)
- (C) 12" STABILIZED SUBGRADE (LBR=40)



**SW 192 DRIVE**  
 N.T.S.

- (A) TYPE SP STRUCTURAL COURSE (2") (TRAFFIC C)  
 FRICTION COURSE TYPE FC-9.5(1" THICK) (110 LBS/SY)
- (B) LIMEROCK BASE (8" THICK) (PRIMED)
- (C) 12" STABILIZED SUBGRADE (LBR=40)

**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 2.5' LIMEROCK BASE BENEATH CURB & GUTTER ARE TO BE INCLUDED IN COST OF C & G (ITEM 520-1-10)

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
2/9/2024	Δ	ADDENDUM #1						

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 90 Riverside Lane, Suite 100  
 Coral Gables, Florida 33134  
 www.stantec.com

The Contractor shall be responsible for all drawings. DO NOT scale drawings. This is a computer-generated drawing. The copyright in this drawing and drawing set shall remain the property of Stantec. No part of this drawing or drawing set shall be reproduced or used for any purpose other than that authorized by Stantec in writing.

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		CMH	02/16/2021	02/16/2021	CMH	02/16/2021
		CMH			CMH	

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

**TYPICAL SECTIONS**



**PAY ITEM NOTES**

- 102-1 TO BE ACCOMPLISHED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION INDEX 600 SERIES, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION (ANSI D6 1-1978), PUBLIC WORKS MANUAL OF METROPOLITAN DADE COUNTY, AND THE LATEST REVISIONS OF THE FORE 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, TRAFFIC SIGNAL MODIFICATION FOR TRAFFIC CONTROL, ETC.
- 110-1-1 INCLUDES REMOVAL OF EXISTING PAVEMENT, CONCRETE SIDEWALK, DRIVEWAYS, CURB AND GUTTER DRAINAGE STRUCTURES, SLAB COVERED TRENCH AND PIPES, MISCELLANEOUS CONCRETE, VEGETATION, TREES 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. FOR PORTIONS OF EXISTING DRAINAGE PIPE THAT ARE UNDER EXISTING TREES TO REMAIN SHALL BE PLUGGED WITH BRICK AND MORTAR AT EACH END AND ABANDONED IN PLACE
- 425-1 COST OF BAFFLE, MATERIALS, METAL PIPE ENCASMENT, INLET AND MANHOLE PAVEMENT AND BASE, LABOR & CONSTRUCTION SHALL BE INCLUDED IN COST OF STRUCTURES.
- 425-6 WITHIN PAVEMENT AREA, ALL EXISTING VALVES, MANHOLE COVERS, UTILITY BOXES ETC. ARE TO BE ADJUSTED TO FINISHED GRADE. ALL METER BOXES WITHIN SIDEWALKS SHALL BE ADJUSTED AND REPLACED AS NEEDED TO CONSTRUCT THE NEW SIDEWALK. FIRE HYDRANTS SHALL BE RELOCATED AWAY FROM THE STREET AS SHOWN ON THE PLANS. ALL MAILBOXES IN CONFLICT WITH CONSTRUCTION SHALL BE PROTECTED AND RELOCATED AS REQUIRED. THIS INCLUDES TEMPORARILY DURING CONSTRUCTION AS NEEDED. THESE ITEMS ARE CONTINGENT UPON FIELD CONDITIONS AND MAY BE INCREASED, DECREASED, OR ELIMINATED BY THE ENGINEER.
- 443-70-4 INCLUDES THE COST OF EXCAVATION TO PLAN ELEVATION, PERFORATED PIPE, PEA ROCK 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.
- 520-1-10 INCLUDES DROP CURB AT DRIVEWAYS AND 3 FT. OF CURB ENDING AS DIRECTED BY THE ENGINEER.
- 522-2 ESTIMATED QUANTITY FOR DRIVEWAYS TO BE CONSTRUCTED AT LOCATIONS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
- 522-2 ALL SIDEWALK RAMP AT INTERSECTIONS SHALL BE 6" THICK. ALL EXISTING 5' WIDE SIDEWALKS AT RIGHT-OF-WAY OF NEW DRIVEWAYS SHALL BE RECONSTRUCTED TO 6" THICK CONCRETE.
- 527-1 DETECTABLE WARNING SURFACE MUST BE SAFETY YELLOW AND IMBEDDED IN CONCRETE, AND FROM THE MOST RECENT OF TESTED PRODUCTS.
  - a. USE DETECTABLE WARNINGS LISTED ON THE FDOT APPROVED PRODUCTS LIST (APL) AND THAT HAVE BEEN FURTHER EVALUATED AND FOUND ACCEPTABLE BY THE DEPARTMENT. AT THE OPTION OF THE CONTRACTOR, AN "OR EQUAL" PRODUCT EVALUATION REQUEST, FOR AN EQUIVALENT FDOT APL APPROVED PRODUCT THAT MEETS OR EXCEEDS THE SPECIFICATION STIPULATED HEREIN, MAY BE SUBMITTED IN WRITING TO THE ENGINEER FOR REVIEW AND ACCEPTANCE.
  - b. THE FOLLOWING PRODUCTS, SUBJECT TO CONTINUED LISTING ON THE FDOT APL, HAVE BEEN EVALUATED BY THE DEPARTMENT FOR USE ON DEPARTMENT PROJECTS:
    - MANUFACTURER SURFACE APPLIED DETECTABLE WARNING DEVICES
    - ENGINEERED PLASTICS, INC. ARMOR-TILE SURFACE APPLIED INLINE DOME APL NUMBER 527-000-006
    - EMBEDDED DETECTABLE WARNING DEVICES
    - PRODUCT
    - ADA SOLUTIONS, INC. CAST-IN-PLACE COMPOSITE TACTILE APL NUMBER 527-000-003
    - ADA SOLUTIONS, INC. REPLACEABLE WET SET COMPOSITE 527-000-018
    - ENGINEERED PLASTICS, INC. ARMOR-TILE REPLACEABLE CAST IN PLACE 527-000-026
    - ENGINEERED PLASTICS, INC. ARMOR-TILE CAST-IN-PLACE INLINE DOME TILE 527-000-027
    - CAPE FEAR SYSTEMS, LLC ALERTCAST (REPLACEABLE) CAST-IN-PLACE 527-000-029
    - ACCESS PRODUCTS, INC. ACCESS TILE REPLACEABLE CAST IN PLACE 527-000-033
    - STRONGGO INDUSTRIES TEKWAY DOME TILE 527-000-035
    - TUFTILE, INC. TUFTILE CAST IRON (WET-SET) REPLACEABLE 527-000-044
- 575-1 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.

1. SUMMARY OF EARTHWORK IS BASED ON THE CONSTRUCTION OF LIMEROCK BASE 8" THICK AS INDICATED ON THE CROSS SECTIONS.
2. ANY EXCAVATED MATERIAL, IF UNSUITABLE, SHALL NOT BE USED IN THE CONSTRUCTION OF THE EMBANKMENT.
3. ANY EXCESS MATERIAL TO BE DISPOSED OF BY THE CONTRACTOR IN LEGAL AREAS PROVIDED BY HIM. NO SEPARATE PAYMENT WILL BE MADE FOR THIS ITEM.

ITEM	QUANTITY
REGULAR EXCAVATION	15,609.94 C.Y.
REGULAR EXCAVATION + 30%	20,293 C.Y.
FILL	2,382.67 C.Y.
FILL + 30%	3,098 C.Y.

PAY ITEM NO.	ITEM	UNIT	QUANTITY	ADDITIONAL QUANTITY	TOTAL QUANTITY
101-1	MOBILIZATION	L.S.	1	-	1
102-1	MAINTENANCE OF TRAFFIC (SEE NOTE)	L.S.	1	-	1
102-14	TRAFFIC CONTROL OFFICER	HRS.	-	-	-
104-1A	ARTIFICIAL COVERING / ROLLED EROSION CONTROL PRODUCTS	L.S.	1	-	1
110-1-1	CLEARING AND GRUBBING	L.S.	1	-	1
120-1	REGULAR EXCAVATION	C.Y.	15,610	4,683	20,293
120-6	EMBANKMENT	C.Y.	2,383	715	3,098
160-40	TYPE 'B' STABILIZATION (12") (MIN. L.B.R. OF 40)	S.Y.	43,377	4,771	48,148
210-1-2	LIMEROCK BASE (8") (PRIMED)	S.Y.	38,840	5,826	44,666
327-70-5	MILLING EXISTING ASPHALT PAVEMENT, 2" AVG. DEPTH	S.Y.	501	75	576
334-2-13	TYPE STRUCTURAL COURSE HMA (TRAFFIC C) (2")	TON	4,149	622	4,771
337-7-83	ASPHALT CONCRETE, FRICTION COURSE C, FC-12.5, PG 76-22	TON	2,075	311	2,386
425-6 *	ADJUST AND/OR RELOCATE EXISTING VALVE BOXES	EACH	57	6	63
425-1-361	ADJUST AND/OR RELOCATE EXISTING WATER METERS BOXES	EACH	53	5	58
425-1-521	ADJUST EXISTING MANHOLE COVERS	EACH	36	4	40
425-1-521	ADJUST AND/OR RELOCATE EXISTING MAIL BOXES	EACH	8	1	9
425-1-521	ADJUST AND/OR RELOCATE EXISTING FIREHYDRANTS	EACH	4	1	5
425-110	MODIFY EXISTING DRAINAGE STRUCTURE	EACH	4	-	4
425-1-201	GUTTER INLET P-9	EACH	16	-	16
425-1-203	GUTTER INLET J-9	EACH	5	-	5
425-1-600F	INLET TYPE P-10M (ANY DIMENSION) (MAX 15' DEPTH)	EACH	25	-	25
425-1-602	INLET TYPE J-10M	EACH	3	-	3
425-1-331	GUTTER INLET TYPE P-3	EACH	6	-	6
425-1-341	GUTTER INLET TYPE P-4	EACH	5	-	5
425-1-351	INLET TYPE P-5 (<10')	EACH	10	-	10
425-1-361	INLET TYPE P-6 (<10')	EACH	25	-	25
425-1-461	INLET TYPE J-6 (<10')	EACH	2	-	2
425-2-41	MANHOLES, TYPE C	EACH	1	-	1
425-2-41	MANHOLES, TYPE P-7T	EACH	3	-	3
425-2-72	MANHOLES, TYPE J-7T (ANY DIMENSION) (MAX 15' DEPTH)	EACH	39	-	39
425-79	CORE & TIE TO EX. DRAINAGE STRUCTURE (ANY PIPE SIZE HOLE OPENING) (INCLUDING MORTAR SEAL)	EACH	-	-	-
430-175-115	PIPE CULVERT, OPTIONAL MATERIAL, ROUND SHAPE, 15" (FDOT APPROVED 100 YEAR DESIGN SERVICE)	L.F.	3,236	485	3,721
430-175-124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND SHAPE, 24" (FDOT APPROVED 100 YEAR DESIGN SERVICE)	L.F.	139	21	160
430-175-136	PIPE CULVERT, OPTIONAL MATERIAL, ROUND SHAPE, 36" (FDOT APPROVED 100 YEAR DESIGN SERVICE)	L.F.	1,161	174	1,335
443-70-36	EXFILTRATION DRAIN PIPE (36") (INCLUDES: BALLAST ROCK, TRENCH, AND PLASTIC FILTER FABRIC)	L.F.	6,549	-	6,549
520-1-10A	CONCRETE CURB AND GUTTER (TYPE "F") & HIGH SIDE (TYPE "F") INCLUDES COST OF LIMEROCK	L.F.	18,728	2,810	21,538
520-2-12	CONCRETE CURB (TYPE "D") M	L.F.	3,785	568	4,353
520-2-8A	CONCRETE CURB (TYPE "RA")	L.F.	326	49	375
522-1-1	CONCRETE SIDEWALK (4" THICK) CATEGORY 1	S.Y.	5,920	2,368	8,288
522-2	CONCRETE SIDEWALK (6" THICK, 3,000 PSI AT 28 DAYS) (INCLUDES PEDESTRIAN RAMPS & SIDEWALKS)	S.Y.	6,200	2,480	8,680
522-4E	BUS SHELTER SLAB CONCRETE (8" THICK)	S.Y.	148	30	178
522-8E	CONCRETE CROSSWALK (12" THICK)	S.Y.	1,084	163	1,247
523-1-3	GREEN PATTERED PAVEMENT	S.Y.	134	20	154
526-1-1	CONCRETE PAVED ROAD SURFACE	S.Y.	255	38	293
527-1	DETECTABLE WARNING SURFACE	S.Y.	90	14	104
575-1	SODDING (MAY BE INCREASED, DECREASED OR ELIMINATED BY THE ENGINEER)	S.Y.	SEE LANDSCAPE PLANS	-	-
721-77	BICYCLE PARKING RACK	EACH	12	-	12
751-38-19	BENCH FURNISH & INSTALL	EACH	18	-	18
751-35-32	BUS SHELTER	EACH	12	-	12
751-37	TRASH RECEPTACLE (FURNISH & INSTALL)	EACH	12	-	12

\* (THIS ITEMS ARE CONTINGENT UPON FIELD CONDITIONS & MAY BE INCREASED DECREASED OR ELIMINATED BY THE ENGINEER)

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2/9/2024		

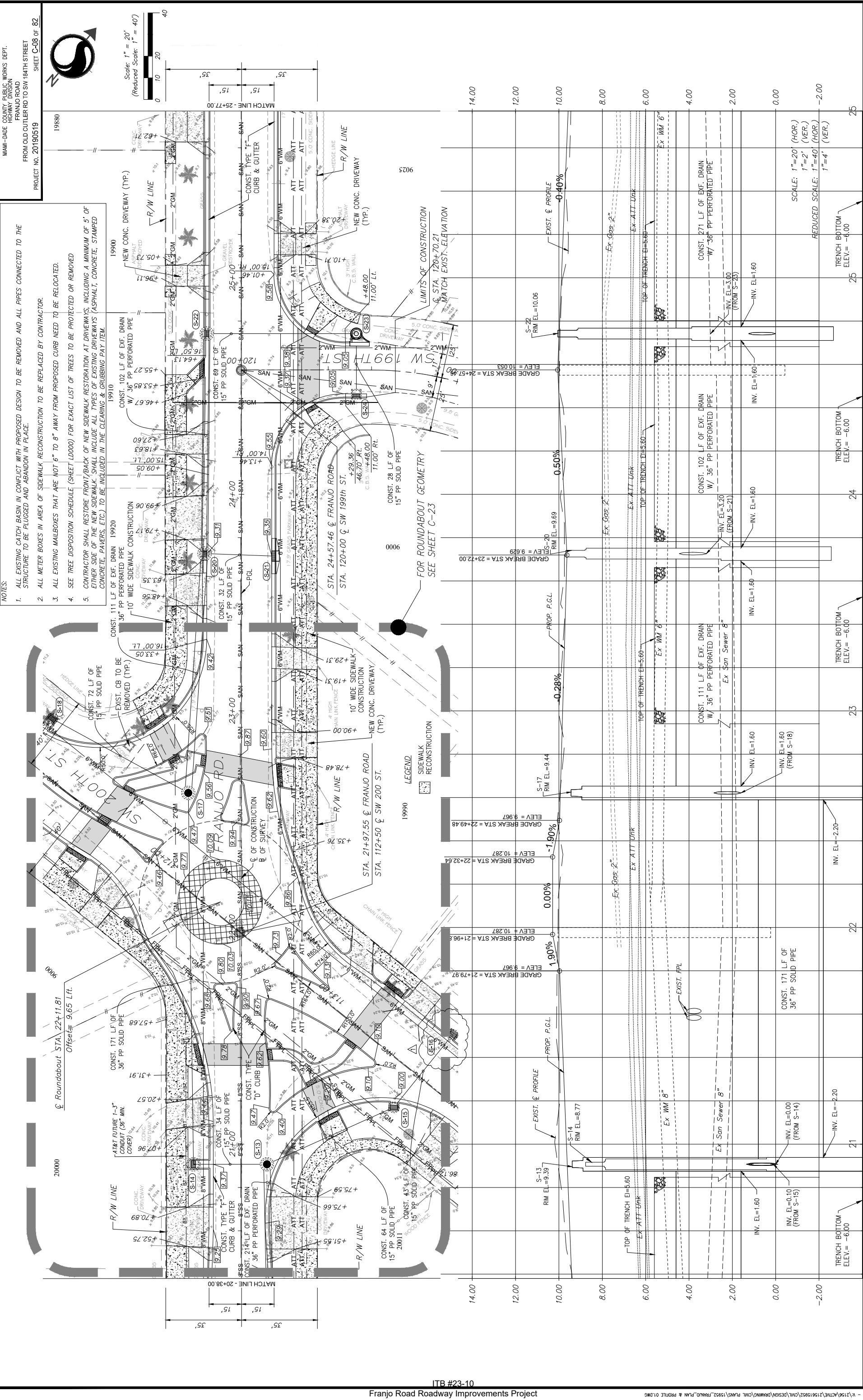
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NAME: RM  
DATE: 04-2021  
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DATE: 04-2021

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
HIGHWAY DIVISION  
STREETS & P.C. CENTER  
MIAMI, FLORIDA 33128

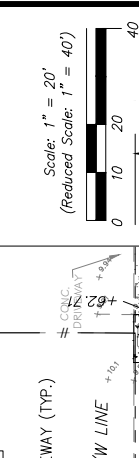
**MIAMI-DADE COUNTY**

**SUMMARY OF QUANTITIES**



- NOTES:
1. ALL EXISTING CATCH BASIN IN CONFLICT WITH PROPOSED DESIGN TO BE REMOVED AND ALL PIPES CONNECTED TO THE STRUCTURE TO BE PLUGGED AND ABANDON IN PLACE.
  2. ALL METER BOXES IN AREA OF SIDEWALK RECONSTRUCTION TO BE REPLACED BY CONTRACTOR.
  3. ALL EXISTING MAILBOXES THAT ARE NOT 6" TO 8" AWAY FROM PROPOSED CURB NEED TO BE RELOCATED.
  4. SEE TREE DISPOSITION SCHEDULE (SHEET LD000) FOR EXACT LIST OF TREES TO BE PROTECTED OR REMOVED.
  5. CONTRACTOR SHALL RESTORE FRONT/BACK OF NEW SIDEWALK RESTORATION AT DRIVEWAYS, INCLUDING A MINIMUM OF 5' OF EITHER SIDE OF THE NEW SIDEWALK. SHALL INCLUDE ALL TYPES OF EXISTING DRIVEWAYS (ASPHALT, CONCRETE, STAMPED CONCRETE, PAVERS, ETC.) TO BE INCLUDED IN THE CLEARING & GRUBBING PAY ITEM.

Miami-Dade County Public Works Dept.  
 Highway Division  
 Franjo Road  
 FROM OLD CUTLER RD TO SW 184TH STREET  
 PROJECT NO. 20190519  
 SHEET C-08 OF 82



LEGEND  
 SIDEWALK RECONSTRUCTION

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
2/9/2024								

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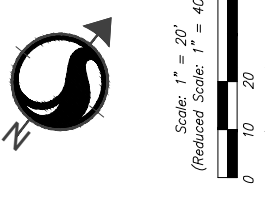
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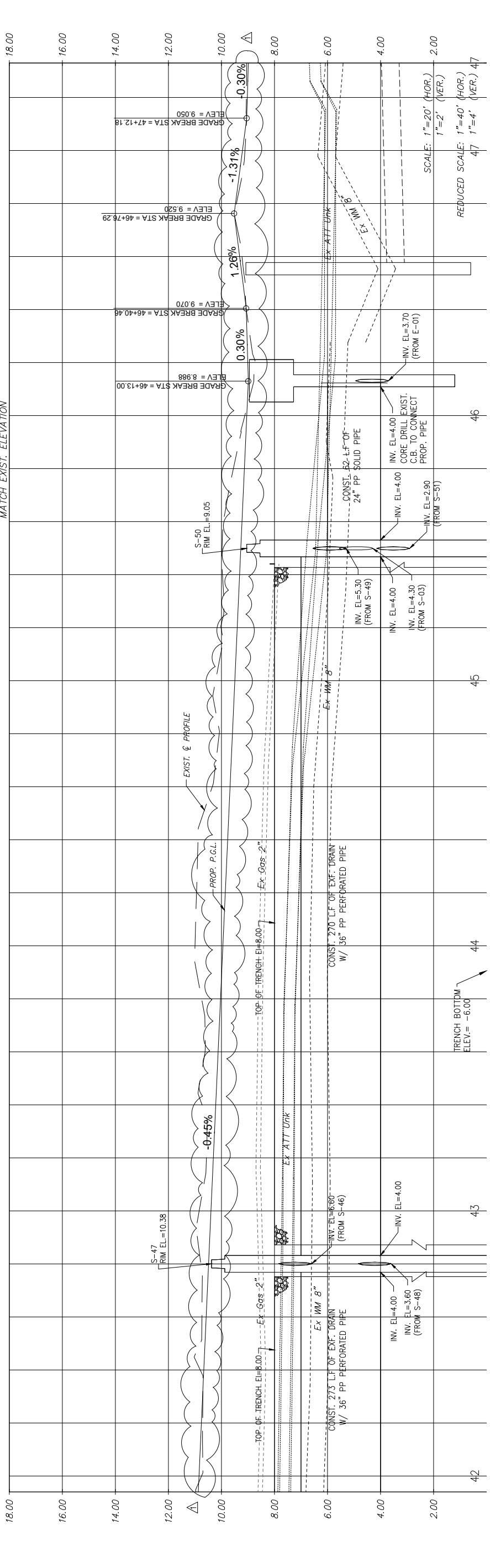
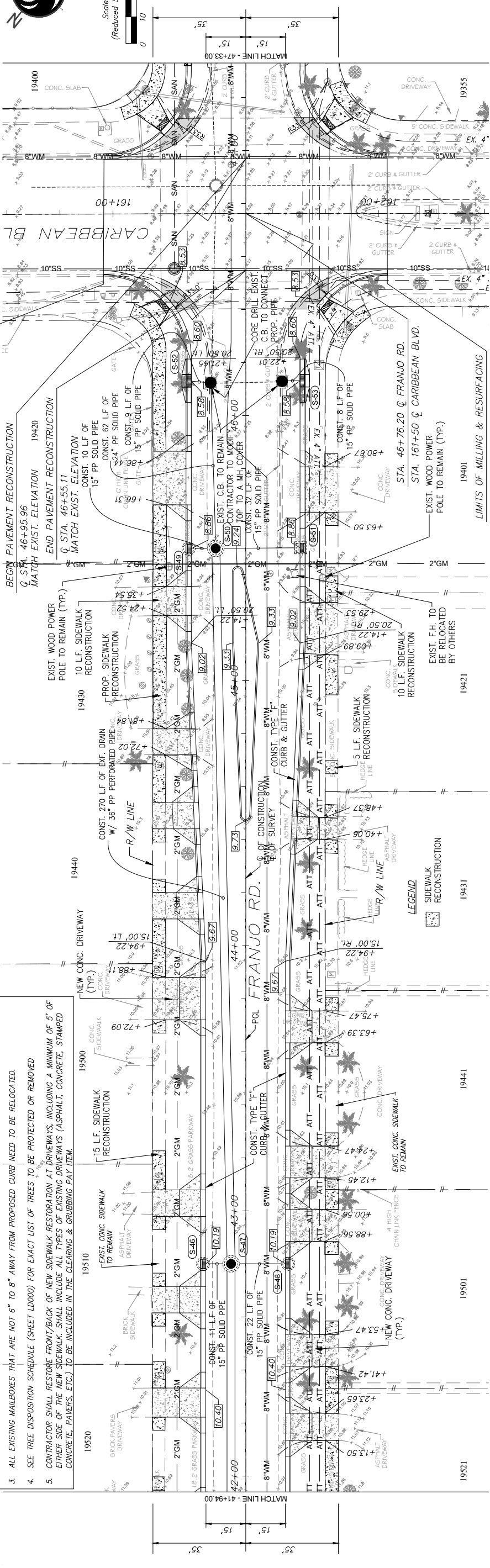
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
 STEPHEN P. JAMES CENTER  
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- NOTES:**
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  5. CONTRACTOR SHALL RESTORE FRONT/BACK OF NEW SIDEWALK RESTORATION AT DRIVEWAYS, INCLUDING A MINIMUM OF 5' OF EITHER SIDE OF THE NEW SIDEWALK. SHALL INCLUDE ALL TYPES OF EXISTING DRIVEWAYS (ASPHALT, CONCRETE, STAMPED CONCRETE, PAVERS, ETC.) TO BE INCLUDED IN THE CLEARING & GRUBBING PAY ITEM.



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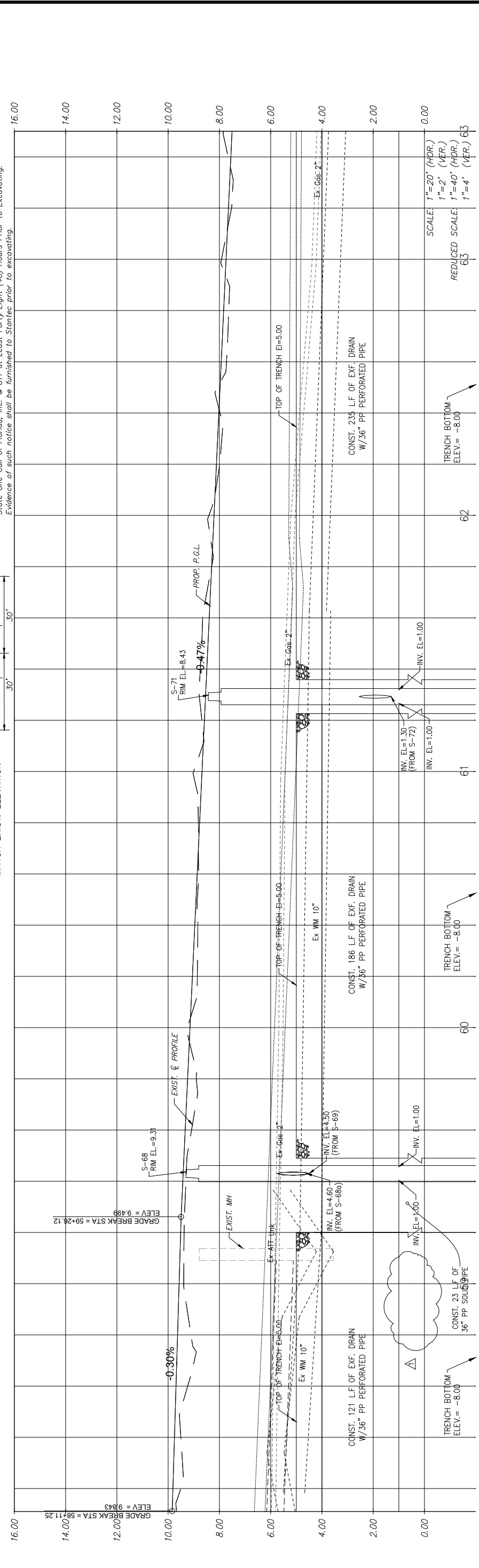
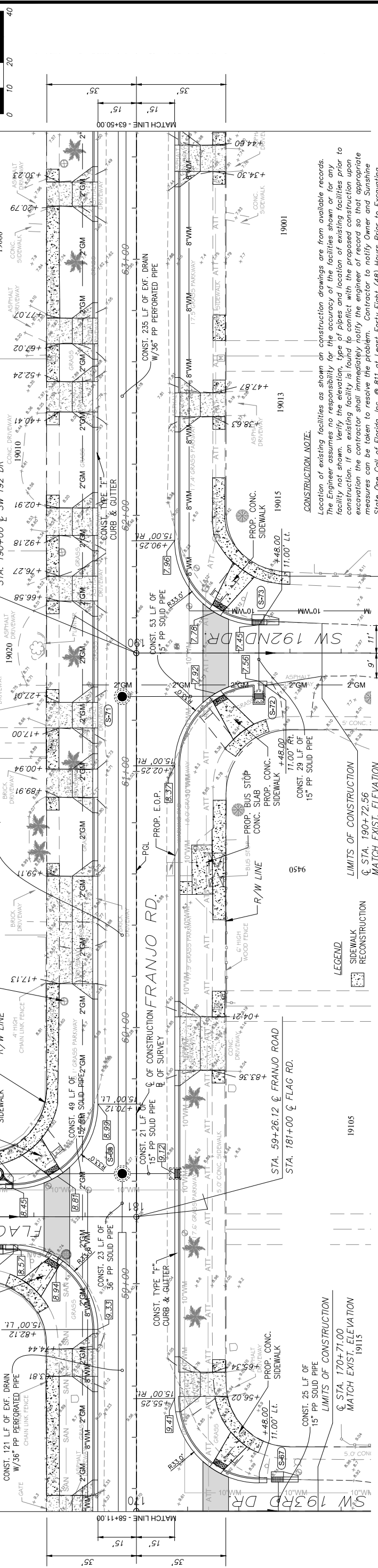
  

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HIGHWAY DIVISION	04-2021
STEPHEN P. DUKE CENTER	
MIAMI, FLORIDA 33128	





- NOTES:
1. ALL EXISTING CATCH BASIN IN CONFLICT WITH PROPOSED DESIGN TO BE REMOVED AND ALL PIPES CONNECTED TO THE STRUCTURE TO BE PLUGGED AND ABANDON IN PLACE.
  2. ALL METER BOXES IN AREA OF SIDEWALK RECONSTRUCTION TO BE REPLACED BY CONTRACTOR.
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**CONSTRUCTION NOTE:**  
 Location of existing facilities as shown on construction drawings are from available records. The Engineer assumes no responsibility for the accuracy of the facilities shown or for any facility not shown. Verify the elevation, type of pipes and location of existing facilities prior to excavation. If an existing facility is found to conflict with the proposed construction upon excavation the contractor shall immediately notify the engineer of record so that appropriate measures can be taken to resolve the problem. Contractor to notify Owner and Sunshine State One Call of Florida, Inc. @ 811 of Least Forty Eight (48) Hours Prior to Excavating. Evidence of such notice shall be furnished to Stantec prior to excavating.

REVISIONS

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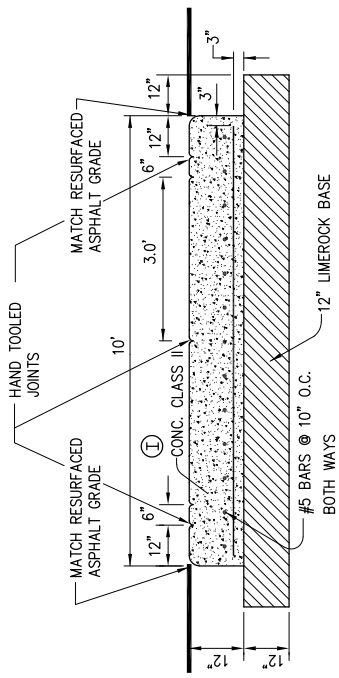
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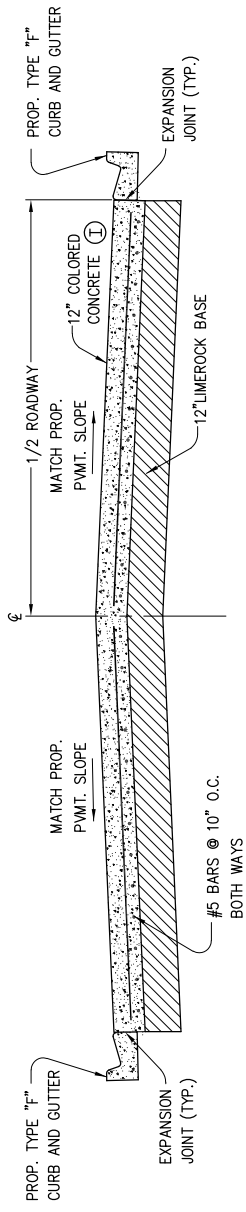
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 AND PUBLIC WORKS  
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 STEPHEN P. CHASE CENTER  
 MIAMI, FLORIDA 33138

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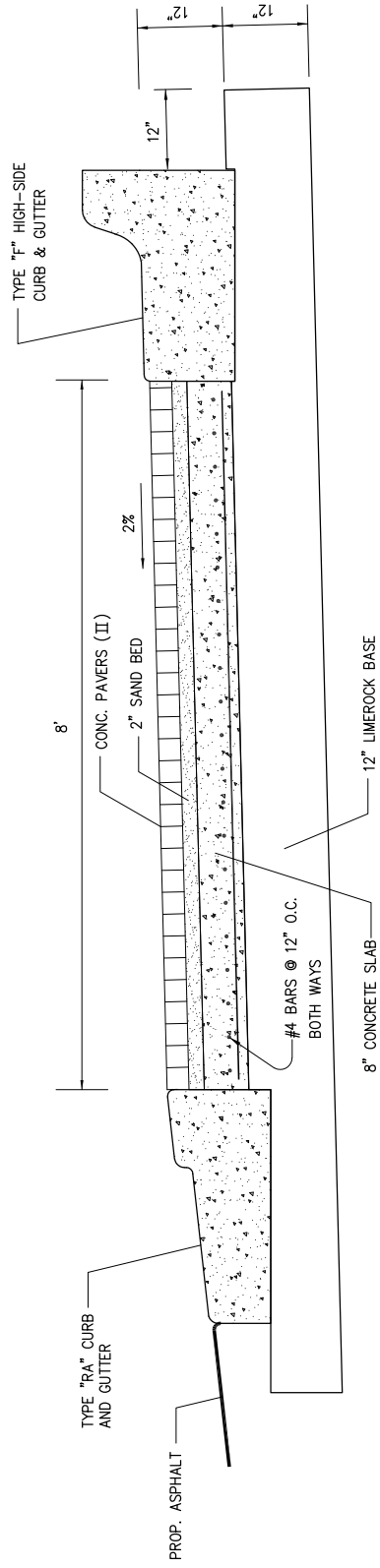
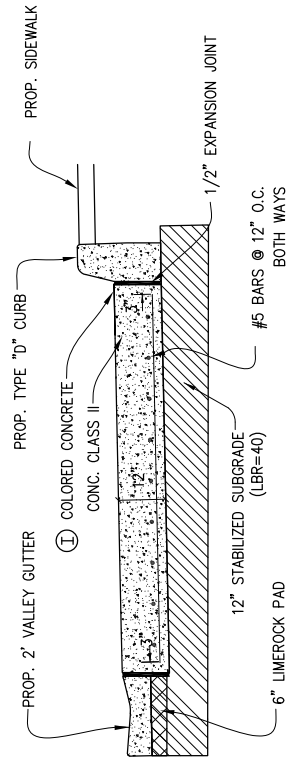
NOTE: PROVIDE BUTT CONSTRUCTION JOINTS AT ALL DISCONTINUANCES OF WORK AS PER F.D.O.T. STANDARDS INDEX NO. 305.



N.T.S.

- (I) INTEGRALLY-COLORED CONCRETE LAMBERT - CORAL GABLES BEIGE
- (II) PAVER MODULE- FOREST HILL COBBLE, ADOBE COLOR, 4" x 8" x 3-1/8"

N.T.S.



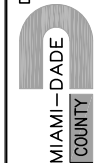
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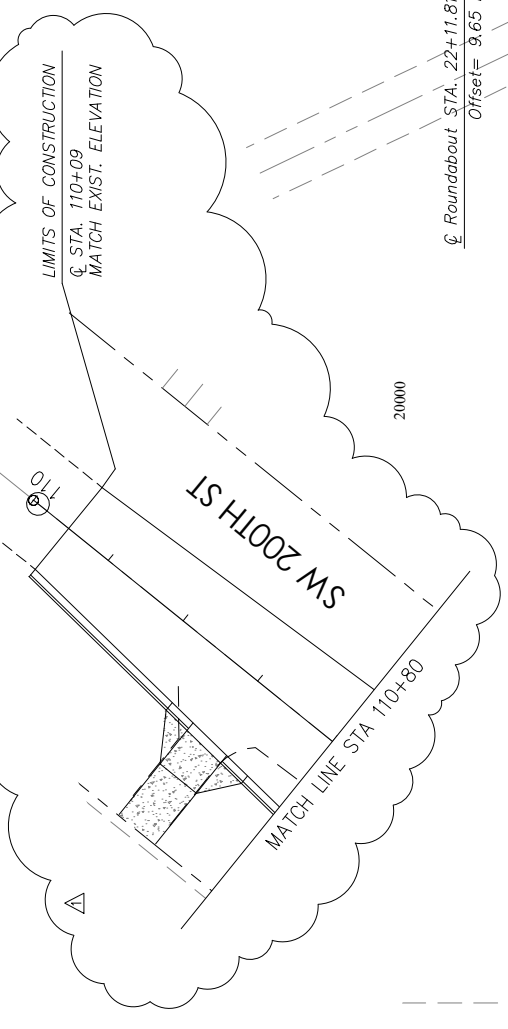
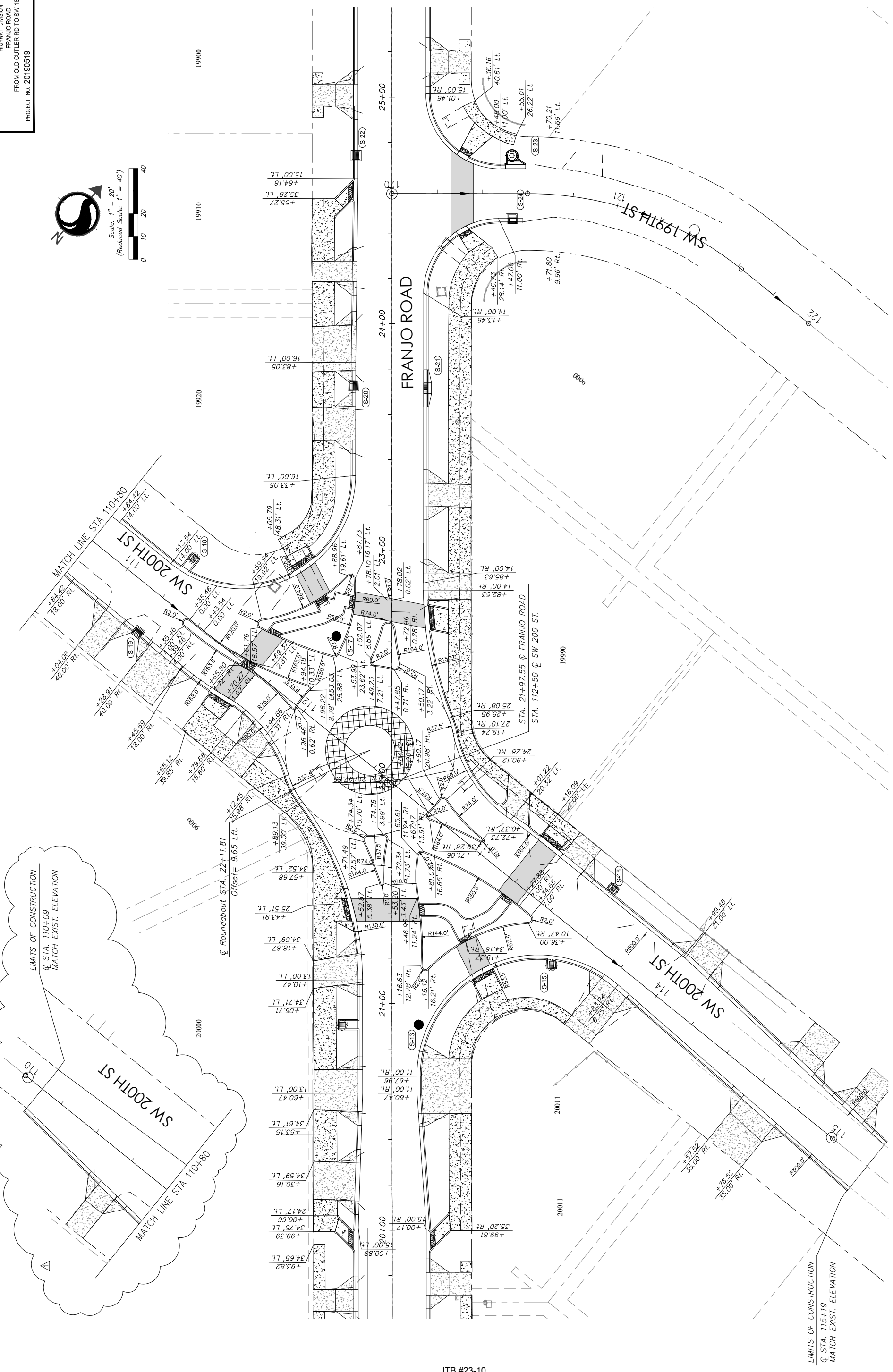
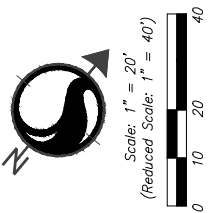
The contractor shall be responsible for all dimensions. DO NOT scale drawings. All dimensions shall be reported to Stantec without delay. The copyright to all design and drawings shall remain the property of Stantec. No use for any purpose other than that authorized by Stantec is forbidden.

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DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
HIGHWAY DIVISION  
STEPHEN J. GILES, CHIEF ENGINEER  
MIAMI, FLORIDA 33128

CONSTRUCTION DETAILS



ITB #23-10

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
2/9/2024								

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REVISIONS

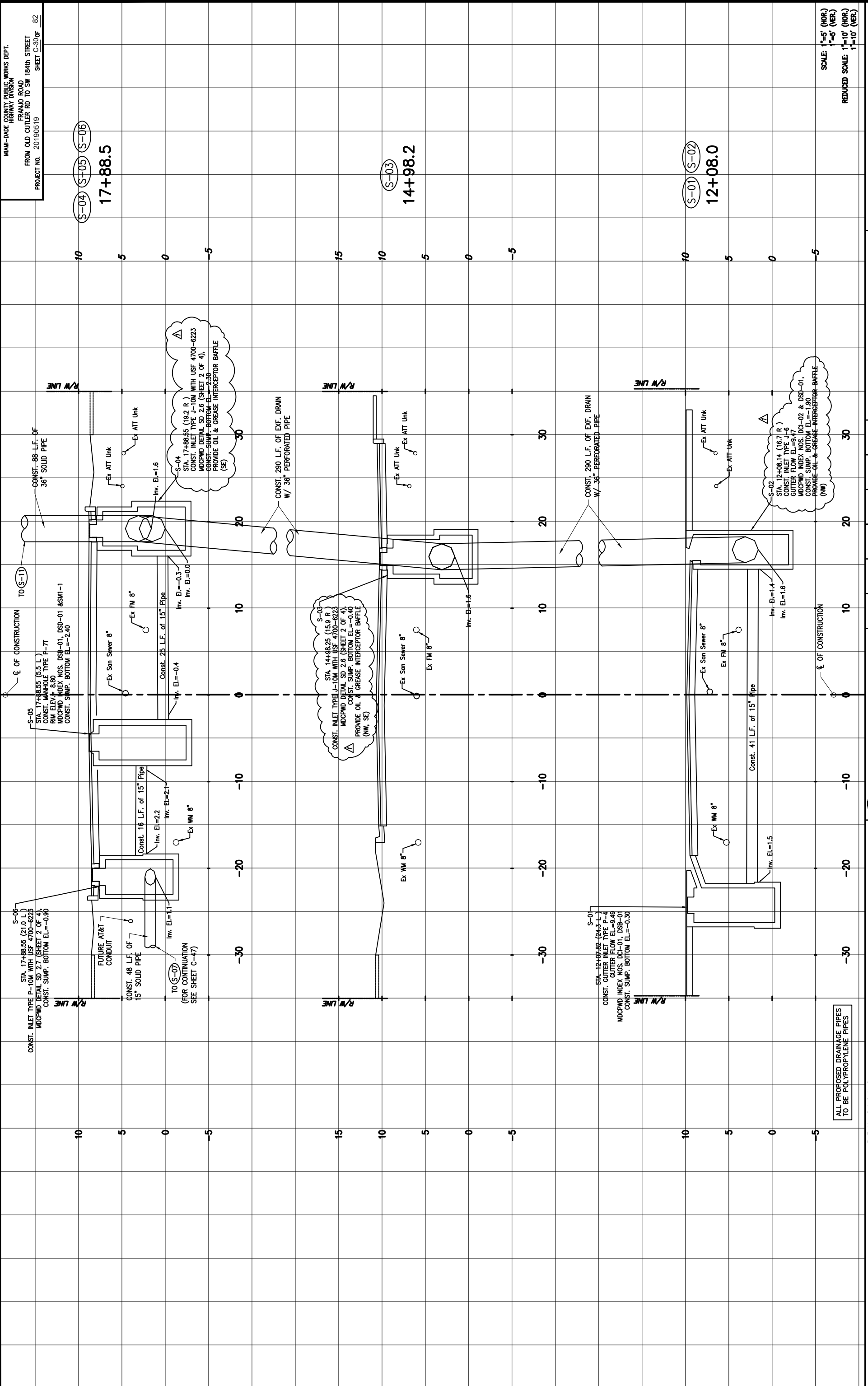
NO.	DATE	DESCRIPTION

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
 STEPHEN P. GARCIA, CENTER  
 MIAMI, FLORIDA 33128

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**ROUNDABOUT GEOMETRY**



MIAMI-DADE COUNTY PUBLIC WORKS DEPT.  
 HIGHWAY DIVISION  
 FRANJO ROAD  
 FROM OLD CUTLER RD TO SW 184th STREET  
 PROJECT NO. 20190519 SHEET C-30 OF 82

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
2/9/2024	ADDENDUM #1				

REVISION	DATE	DESCRIPTION
		ALL PROPOSED DRAINAGE PIPES TO BE POLYPROPYLENE PIPES

DATE	NAME	DATE	NAME	DATE	NAME
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DESIGNED BY	DRAWN BY	CHECKED BY	DATE
CMH	CMH	CMH	04-2023

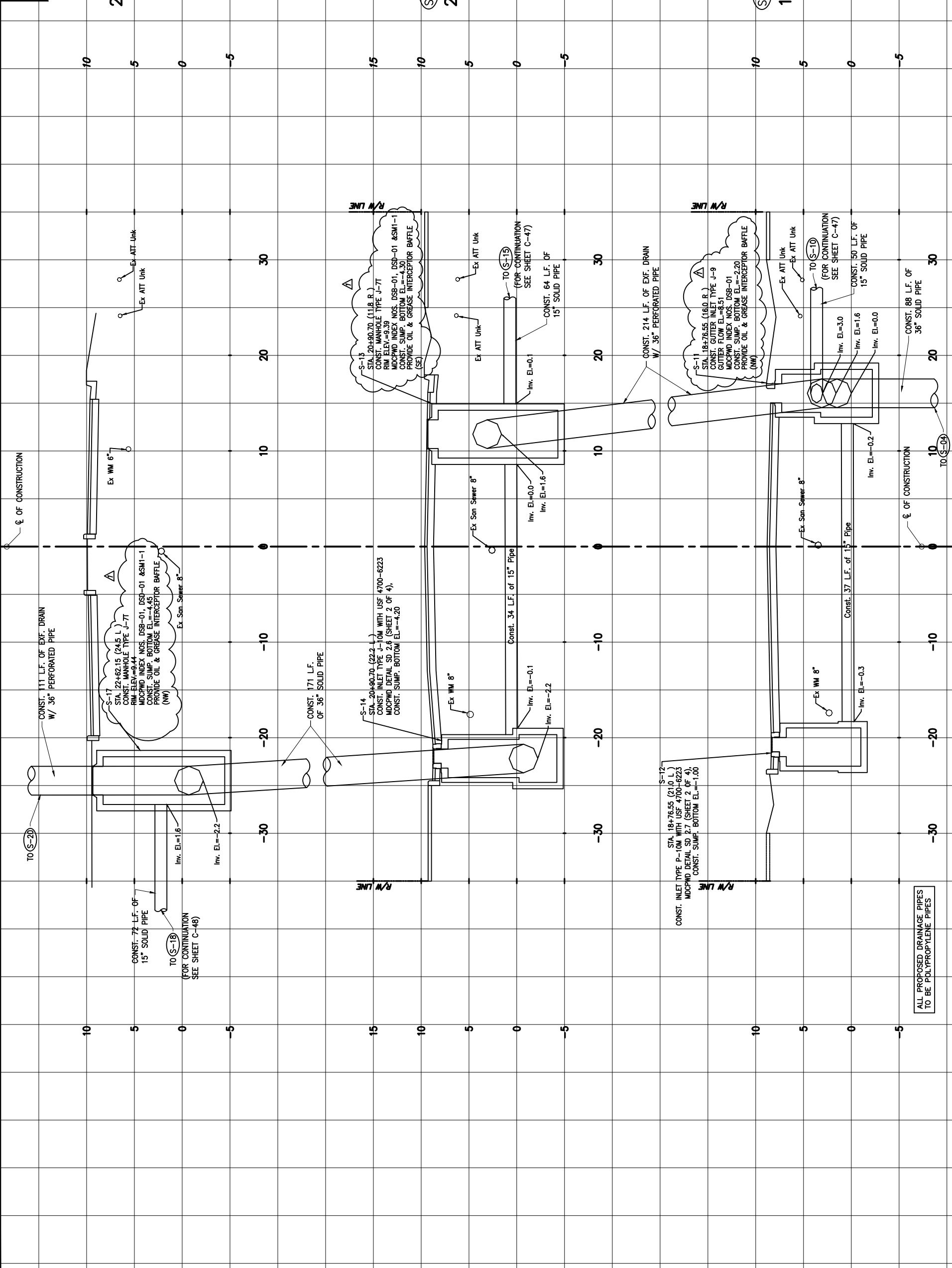
  

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
 STRENGTH, CLARE CENTER  
 MIAMI, FLORIDA 33128

MIAMI-DADE COUNTY

DRAINAGE STRUCTURES





SCALE: 1"=5' (HOR.)  
 1"=5' (VER.)  
 REDUCED SCALE: 1"=10' (HOR.)  
 1"=10' (VER.)

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
2/9/2024	Δ	ADDENDUM #1			

REVISION	DATE	BY	DESCRIPTION

DESIGNED BY	DATE	NAME	DATE	NAME
	04-2023	CMH	04-2023	CMH

DRAWN BY	DATE	NAME	DATE	NAME
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CHECKED BY	DATE	NAME	DATE	NAME

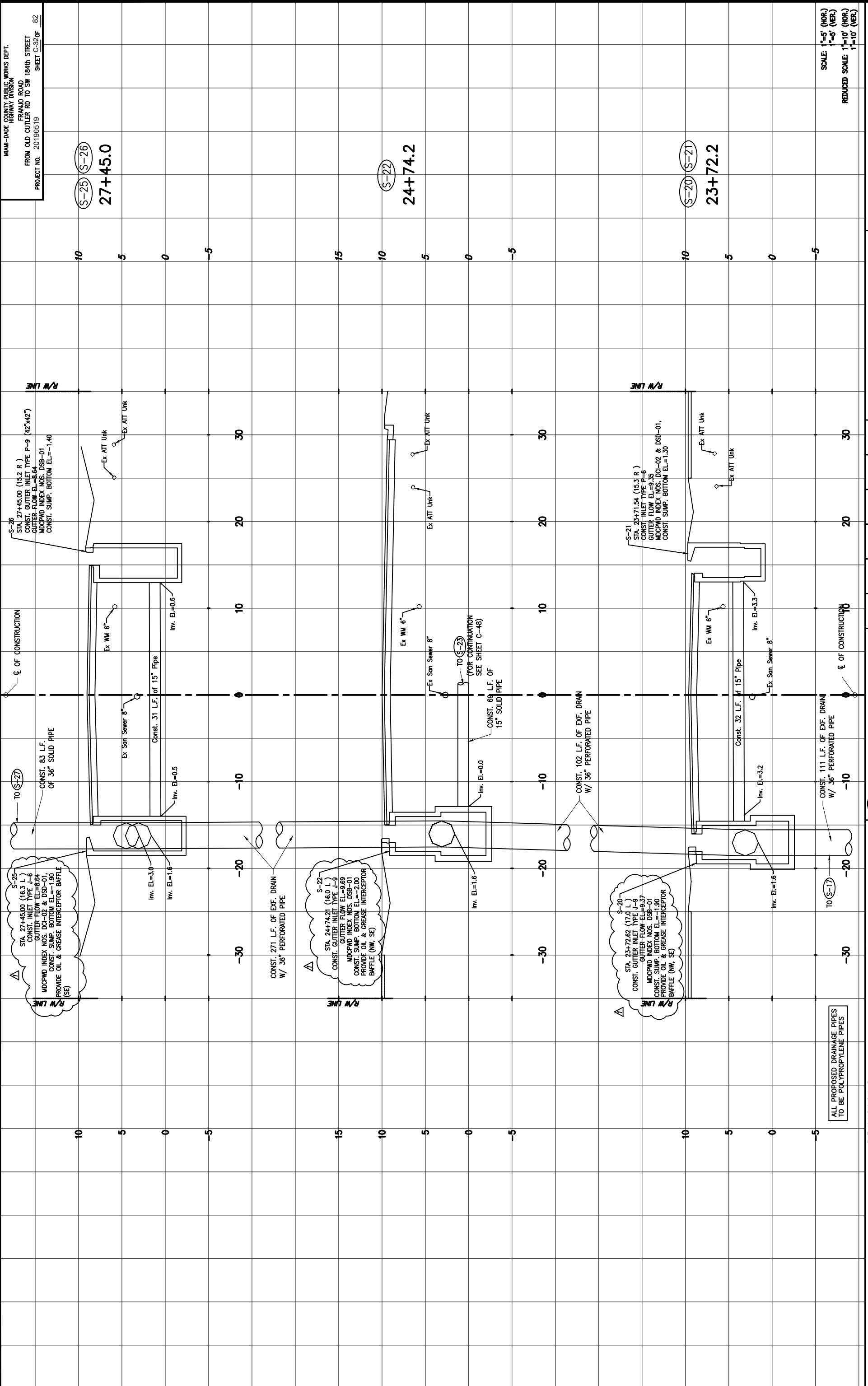
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DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
 STREET P. CLARK CENTER  
 MIAMI, FL 33134

MIAMI-DADE COUNTY

DRAINAGE STRUCTURES



MIAMI-DADE COUNTY PUBLIC WORKS DEPT.  
 HIGHWAY DIVISION  
 FRANJO ROAD  
 FROM OLD OUTLER RD TO SW 184th STREET  
 PROJECT NO. 20190519  
 SHEET C-32 OF 82

SCALE: 1"=5' (HOR.)  
 1"=5' (VER.)  
 REDUCED SCALE: 1"=10' (HOR.)  
 1"=10' (VER.)

DATE		DESCRIPTION		DATE		DESCRIPTION	
2/9/2024	Δ	ADDENDUM #1					

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
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04-2023	CMH	DRAWN BY
		CHECKED BY
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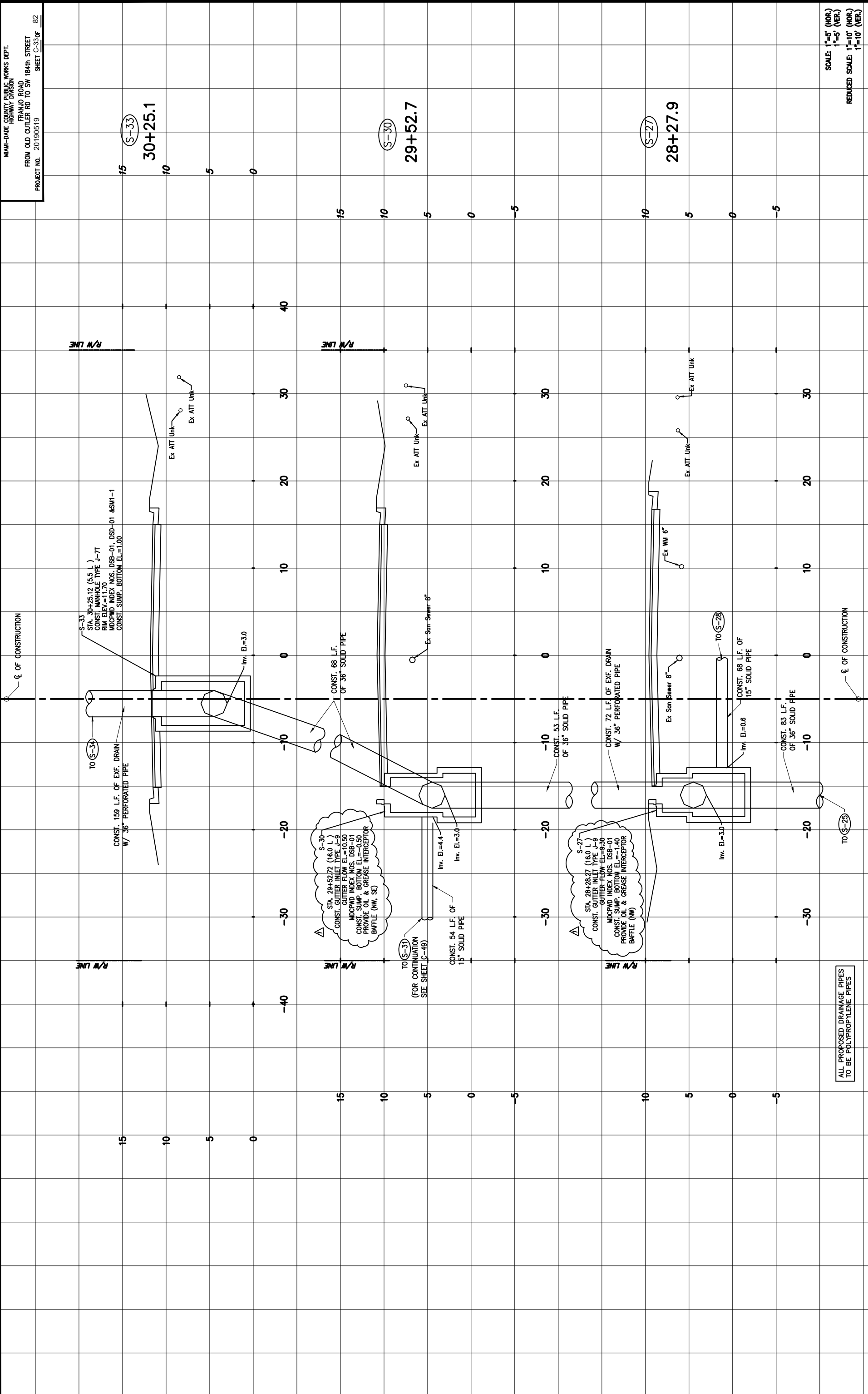
  

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
 STRENGTH & DURABILITY CENTER  
 MIAMI, FLORIDA 33128

MIAMI-DADE COUNTY

DRAINAGE STRUCTURES

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ALL PROPOSED DRAINAGE PIPES  
 TO BE POLYPROPYLENE PIPES

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
2/9/2024	Δ	ADDENDUM #1			

DESIGNED BY	CHECKED BY	DATE	NAME	DATE	NAME	DATE	NAME
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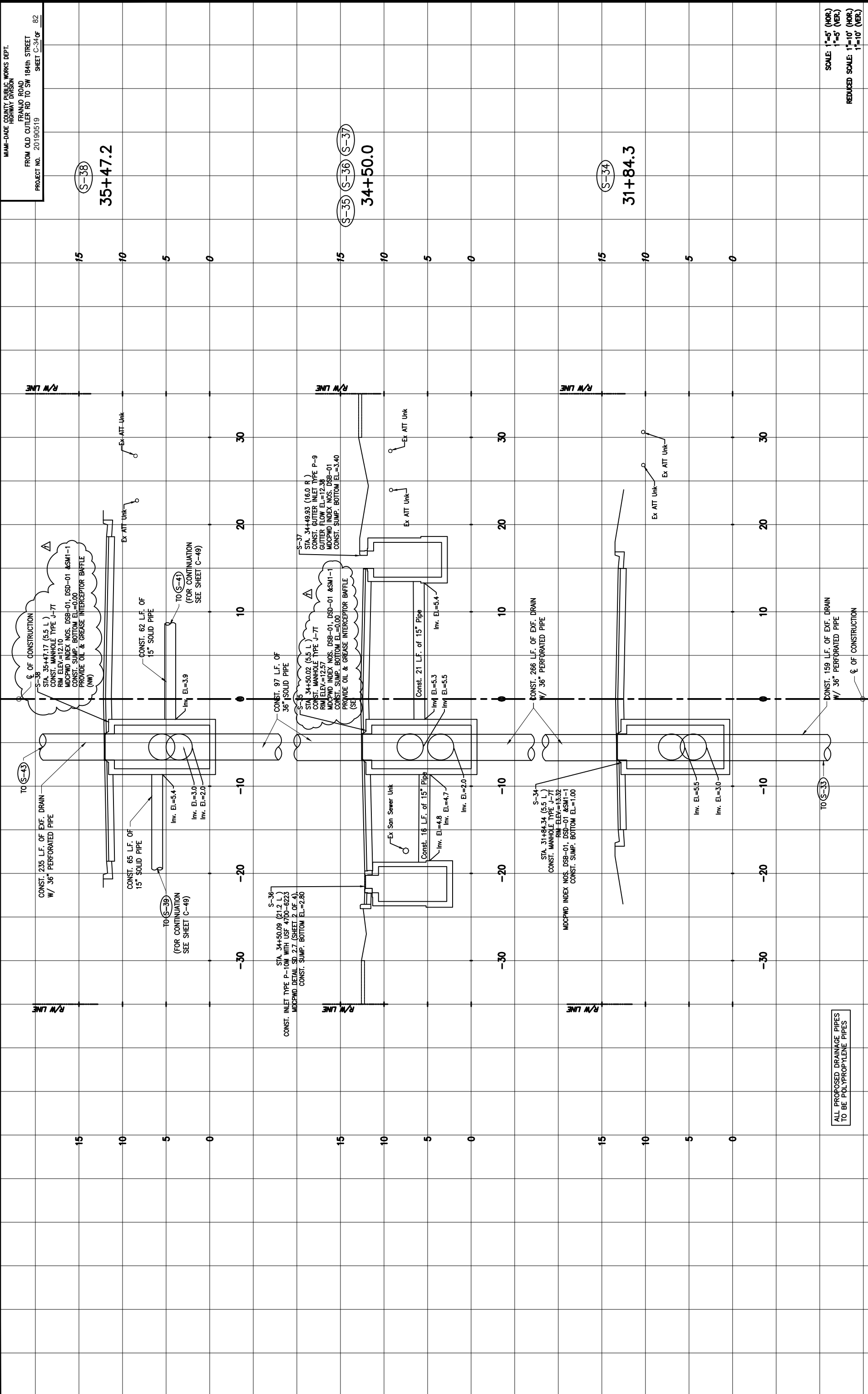
REVISIONS	DATE	BY	DESCRIPTION

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MIAMI-DADE COUNTY  
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
 STREET P. CLARK CENTER  
 MIAMI, FLORIDA 33128

SCALE: 1"=5' (HOR.)  
 1"=5' (VER.)  
 REDUCED SCALE: 1"=10' (HOR.)  
 1"=10' (VER.)



MIAMI-DADE COUNTY PUBLIC WORKS DEPT.  
 FRANJO ROAD  
 HIGHWAY DIVISION  
 FROM OLD OUTLER RD TO SW 184th STREET  
 PROJECT NO. 20190519  
 SHEET C-34 OF 82

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
2/9/2024	Δ	ADDENDUM #1			

NAME	DATE	DATE	DATE
DESIGNED BY	04-2023	DATE	04-2023
DRAWN BY		DATE	
CHECKED BY		DATE	
APPROVED BY		DATE	

NAME	DATE	DATE	DATE
DESIGNED BY	04-2023	DATE	04-2023
DRAWN BY		DATE	
CHECKED BY		DATE	
APPROVED BY		DATE	

REVISION #	DATE	DESCRIPTION
1		ALL PROPOSED DRAINAGE PIPES TO BE POLYPROPYLENE PIPES

MIAMI-DADE COUNTY	DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY DIVISION FRANK P. CLARK CENTER MIAMI, FLORIDA 33128
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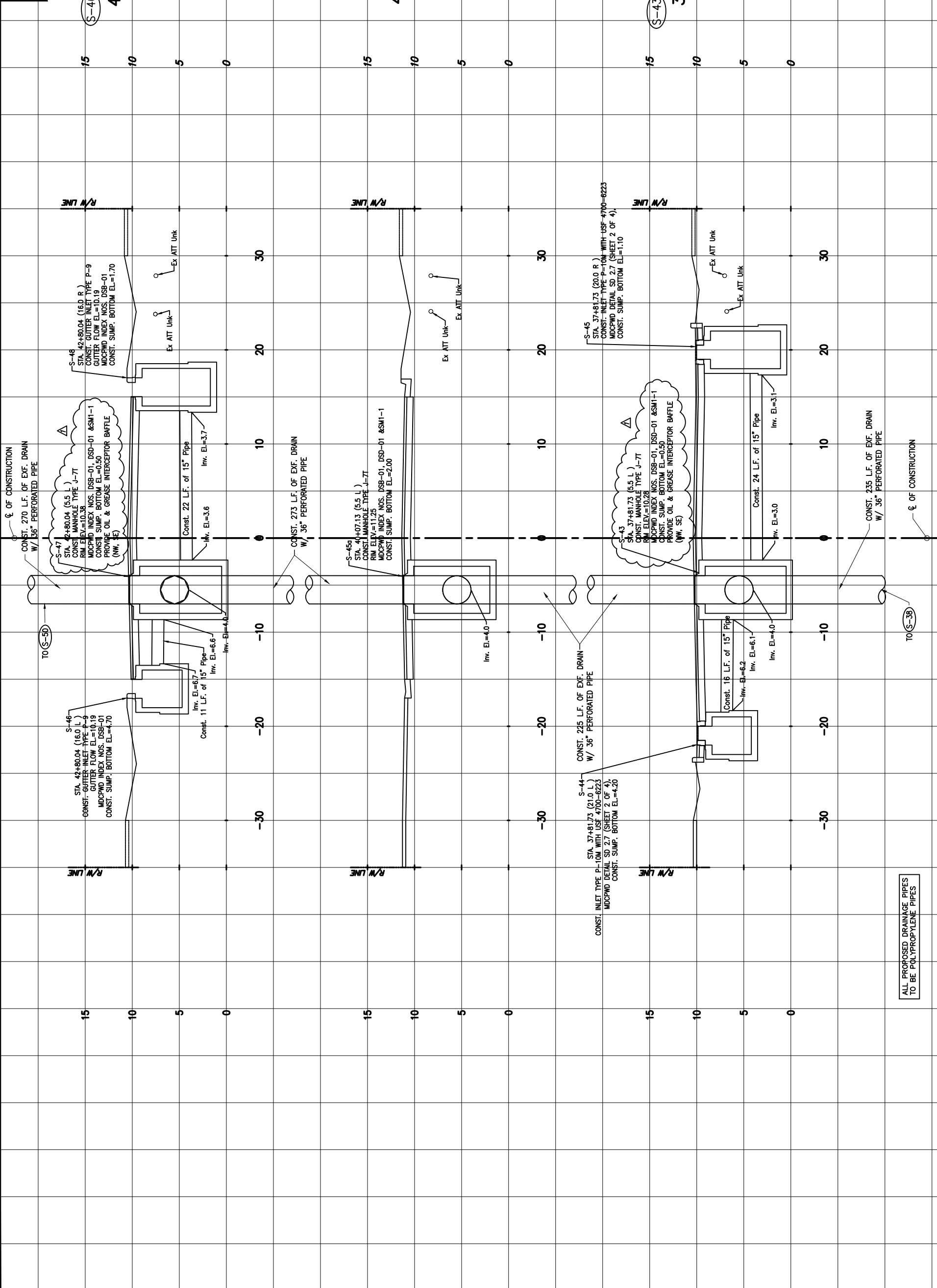
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MIAMI-DADE COUNTY	DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY DIVISION FRANK P. CLARK CENTER MIAMI, FLORIDA 33128
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SCALE: 1"=5' (HOR.)  
 1"=5' (VER.)  
 REDUCED SCALE: 1"=10' (HOR.)  
 1"=10' (VER.)



SCALE: 1"=5' (HOR.)  
 1"=5' (VER.)  
 REDUCED SCALE: 1"=10' (HOR.)  
 1"=10' (VER.)

REVISIONS		DATE		BY		DESCRIPTION	
DATE	BY	DATE	BY	DATE	BY	DATE	DESCRIPTION
2/9/2024	Δ						ADDENDUM #1

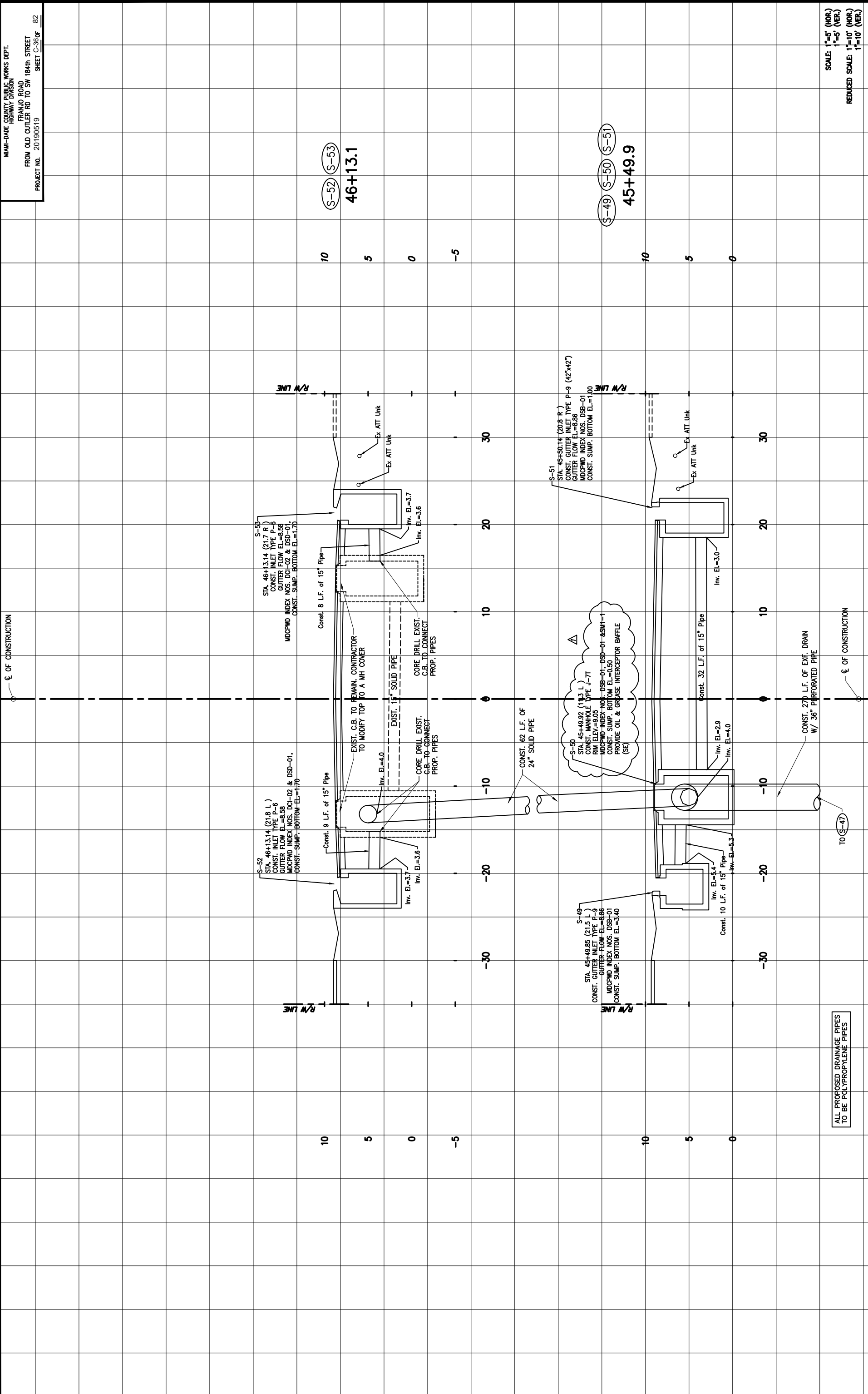
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DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY DIVISION	MIAMI-DADE COUNTY
STREETS & C&G CENTER MIAMI, FL 33134	

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ALL PROPOSED DRAINAGE PIPES  
 TO BE POLYPROPYLENE PIPES

SCALE: 1"=5' (HOR.)  
 1"=5' (VER.)  
 REDUCED SCALE: 1"=10' (HOR.)  
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
2/9/2024	Δ	ADDENDUM #1			

NAME	DATE	NAME	DATE
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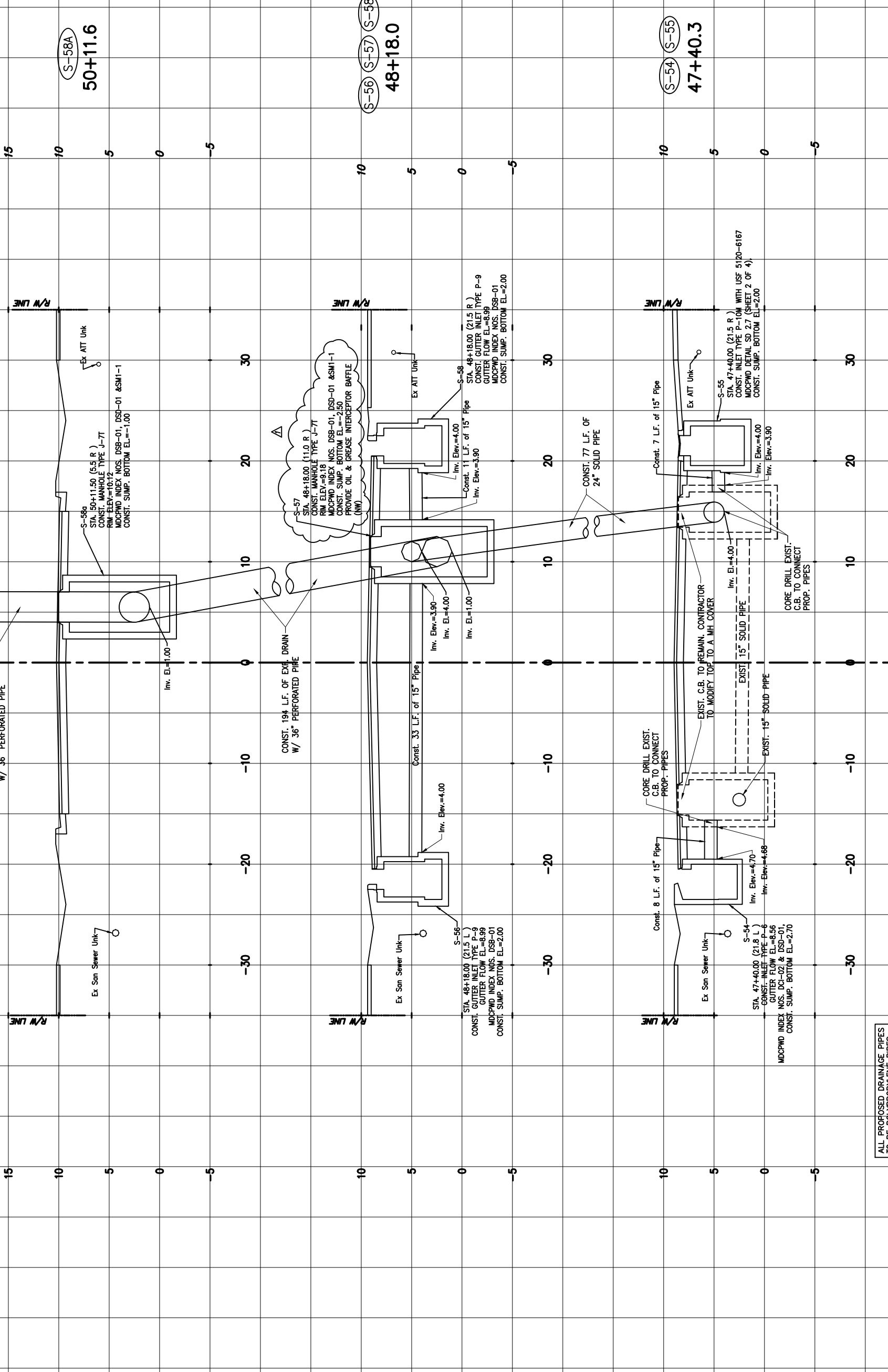
  

MIAMI-DADE COUNTY	DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	HIGHWAY DIVISION
STRENGTH & DURABLE CENTER		
MIAMI, FLORIDA 33128		



THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS (DO NOT SCALE THE DRAWING - VERIFY DIMENSIONS OR ELEVATIONS).  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY EROSION CONTROL MEASURES.  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY UTILITIES LOCATIONS.  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RIGHT-OF-WAY INFORMATION.  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY ADJACENT PROPERTY INFORMATION.  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY ADJACENT UTILITY INFORMATION.  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY ADJACENT STRUCTURE INFORMATION.  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY ADJACENT ELEVATION INFORMATION.  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY ADJACENT DRAINAGE INFORMATION.  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY ADJACENT ROADWAY INFORMATION.  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY ADJACENT SIDEWALK INFORMATION.  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY ADJACENT BIKEWAY INFORMATION.  
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 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY ADJACENT LIGHTING INFORMATION.  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY ADJACENT SIGNAGE INFORMATION.  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY ADJACENT FURNISHMENT INFORMATION.  
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 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY ADJACENT FURNISHMENT INFORMATION.





SCALE: 1"=5' (HOR.)  
 1"=5' (VER.)  
 REDUCED SCALE: 1"=10' (HOR.)  
 1"=10' (VER.)

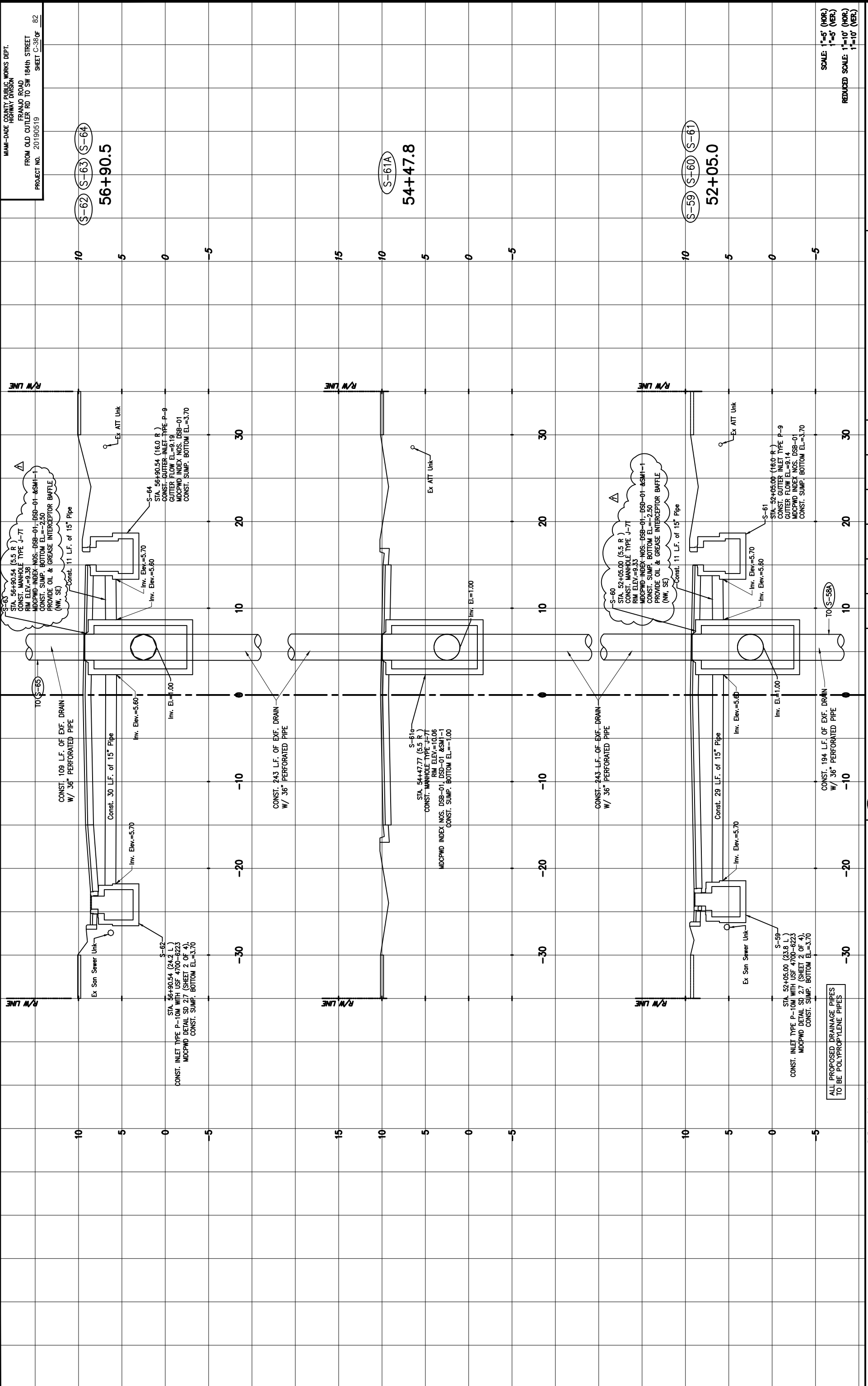
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2/9/2024	ADDENDUM #1				
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DESIGNED BY	NAME	DATE	DATE	NAME	DATE
DRAWN BY	CMH	04-2023	DRAWN BY	CMH	04-2023
CHECKED BY	CMH		CHECKED BY	CMH	
SUPERVISED BY:			SUPERVISED BY:		

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**MIAMI-DADE COUNTY**  
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
 STREET P. CLARK CENTER  
 MIAMI, FLORIDA 33138

**DRAINAGE STRUCTURES**





MIAMI-DADE COUNTY PUBLIC WORKS DEPT.  
 HIGHWAY DIVISION  
 FRANJO ROAD  
 FROM OLD OUTLER RD TO SW 184th STREET  
 PROJECT NO. 20190519  
 SHEET C-36 OF 82

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
2/9/2024	Δ	ADDENDUM #1			

REVISION	DATE	DESCRIPTION
		ALL PROPOSED DRAINAGE PIPES TO BE POLYPROPYLENE PIPES

NAME	DATE	DATE	DATE
DESIGNED BY	04-2023	04-2023	04-2023
CHECKED BY	CMH	CMH	CMH
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DATE	04-2023	04-2023	04-2023

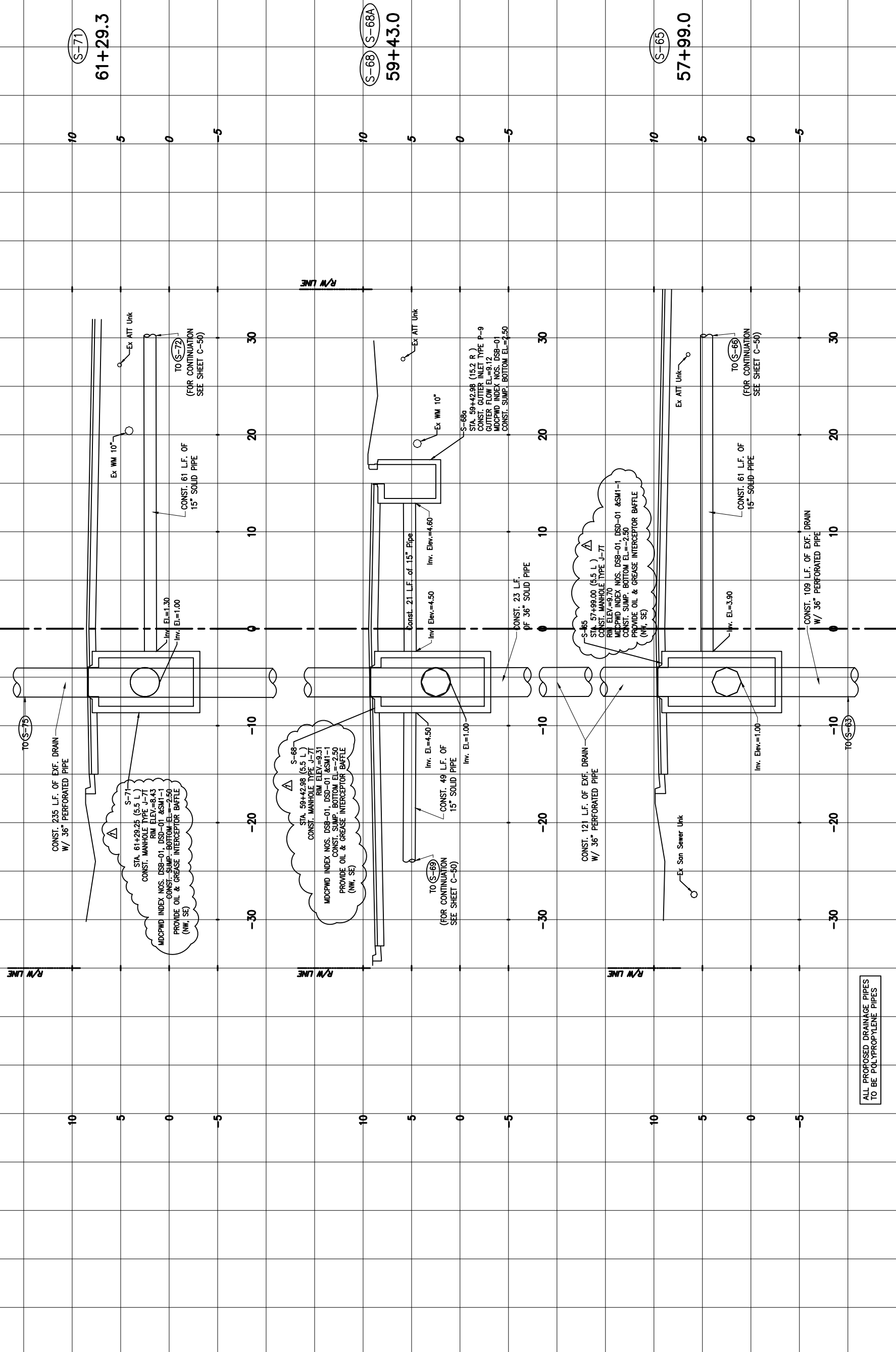
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DATE	04-2023	04-2023	04-2023

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
 STREET P. CLARK CENTER  
 MIAMI, FLORIDA 33128

MIAMI-DADE COUNTY

DRAINAGE STRUCTURES



ALL PROPOSED DRAINAGE PIPES TO BE POLYPROPYLENE PIPES

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 1"=5' (VER.)  
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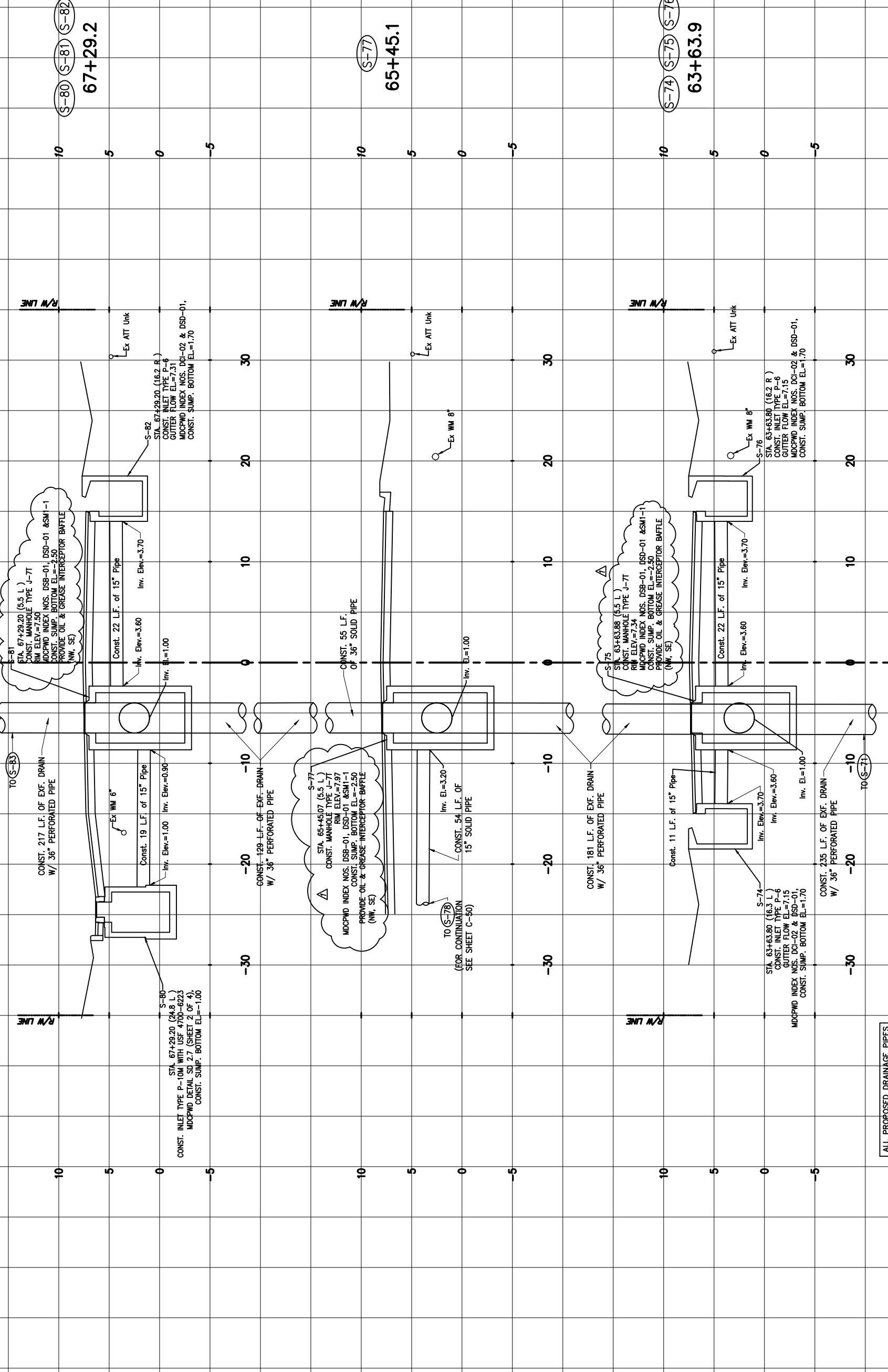
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NAME	DATE	DATE	DATE	DATE	DATE
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CHECKED BY	CMH		DATE	CMH	
APPROVED BY	CMH		DATE	CMH	
SUPERVISED BY	CMH		DATE	CMH	

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY DIVISION STREET P. CLERK CENTER MIAMI, FLORIDA, 33128	MIAMI-DADE COUNTY	DRAINAGE STRUCTURES
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
2/9/2024	Δ	ADDENDUM #1			

REVISIONS

ALL PROPOSED DRAINAGE PIPES TO BE POLYPROPYLENE PIPES

SCALE: 1"=5' (HOR.)  
 1"=5' (VER.)  
 REDUCED SCALE: 1"=10' (HOR.)  
 1"=10' (VER.)

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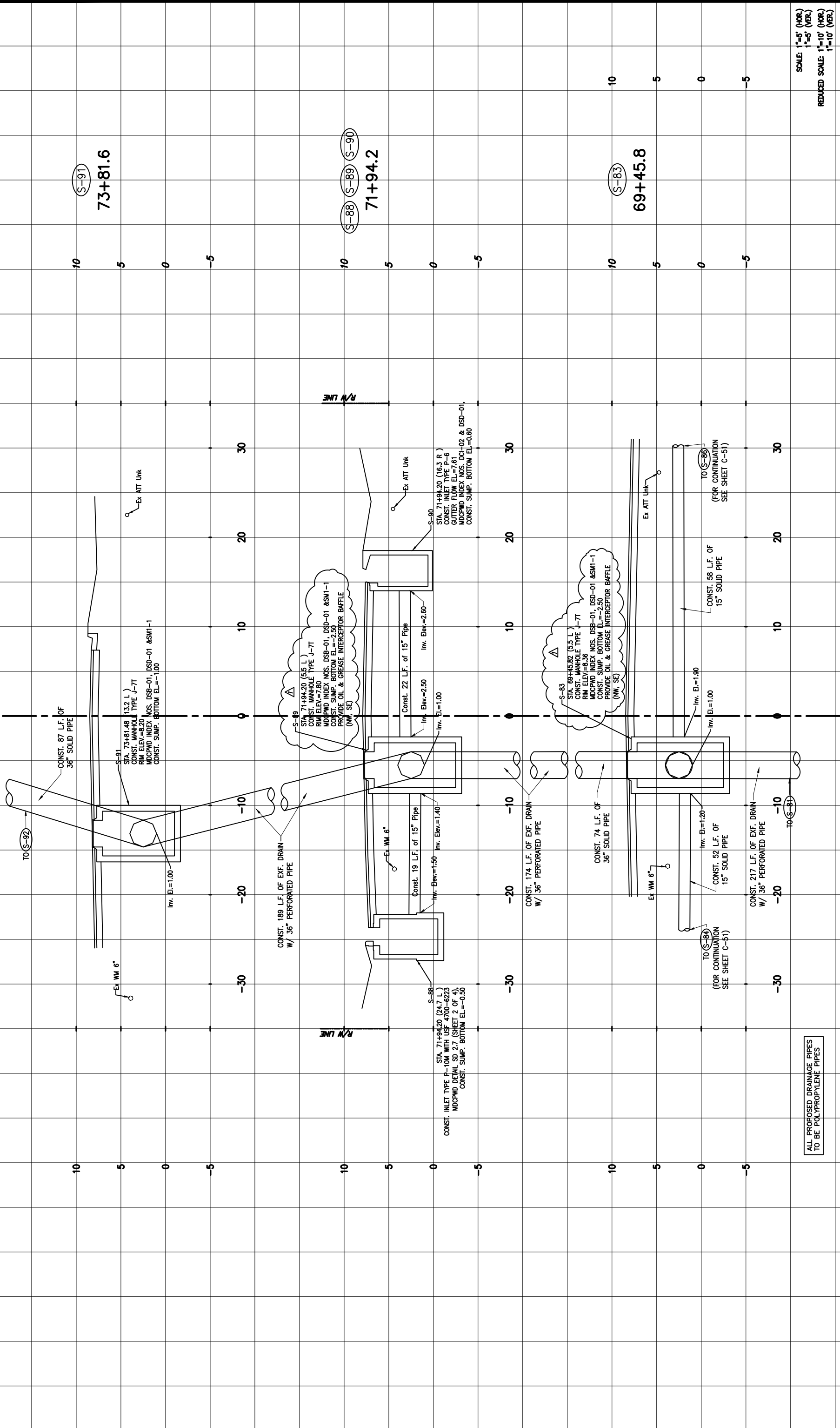
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 BY: Δ  
 DESCRIPTION: ADDENDUM #1

DATE: 04-2021  
 NAME: CMH  
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 CHECKED BY: CMH  
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 NAME: CMH  
 DRAWN BY: CMH  
 CHECKED BY: CMH

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
 STREET P. CLARK CENTER  
 MIAMI, FLORIDA 33128

MIAMI-DADE COUNTY

DRAINAGE STRUCTURES



SCALE: 1"=5' (HOR.)  
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REVISION	DATE	BY	DESCRIPTION

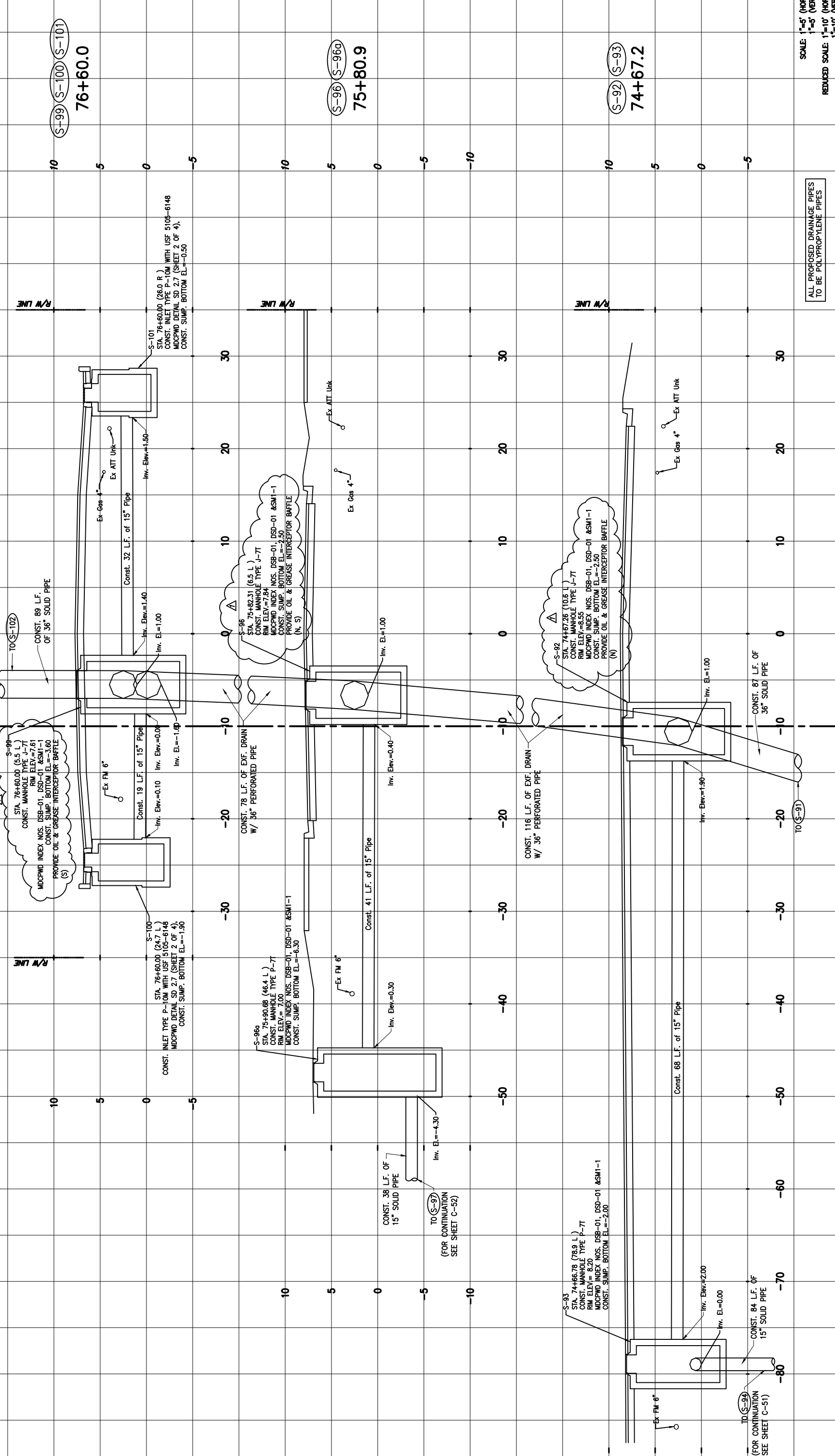
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DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	MIAMI-DADE COUNTY
HIGHWAY DIVISION	
STREETS & CIVIL CENTER	
MIAMI, FLORIDA 33128	

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ALL PROPOSED DRAINAGE PIPES TO BE POLYPROPYLENE PIPES

SCALE: 1"=5' (HOR.)  
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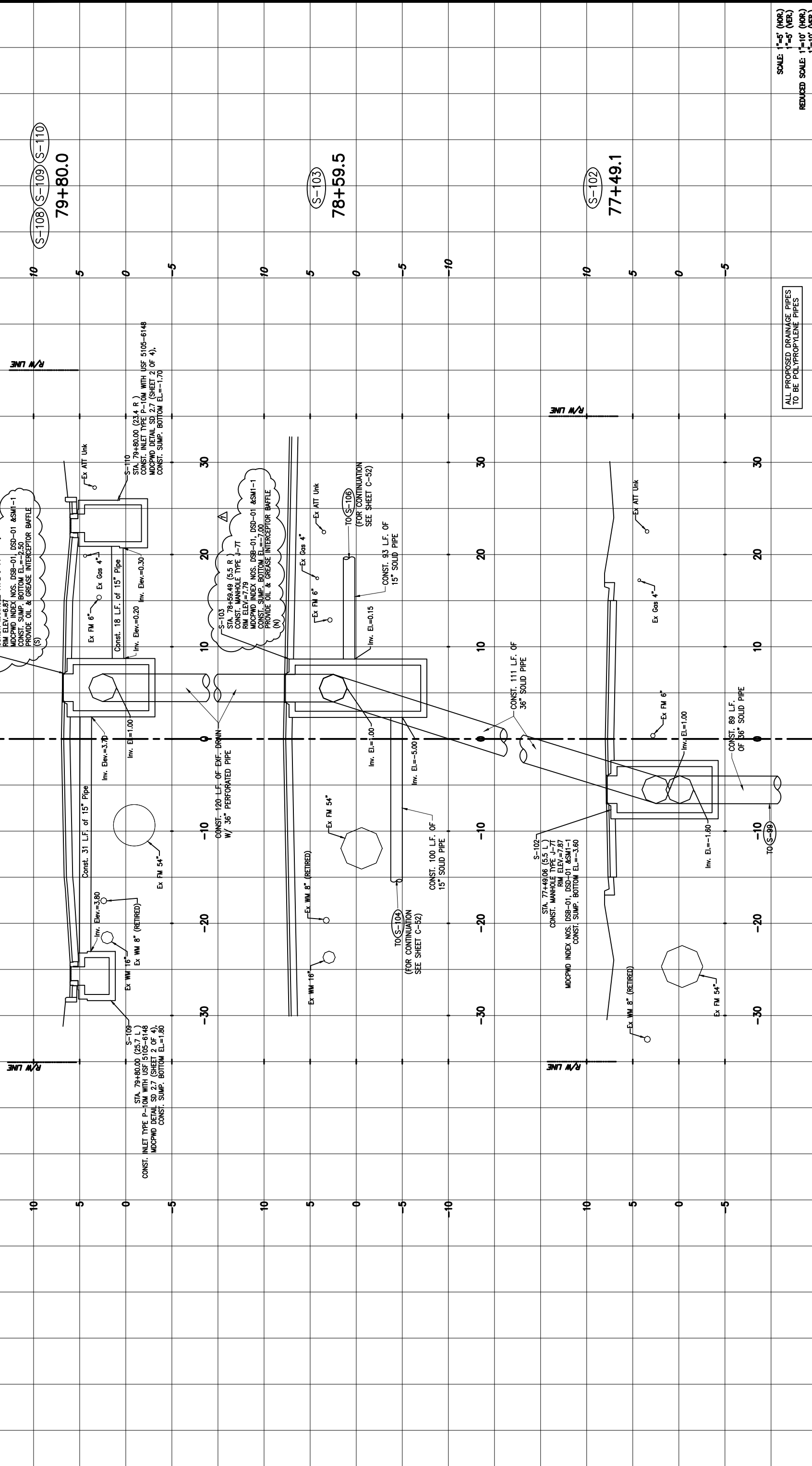
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04-2023	CMH	04-2023

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
 STREETS & CLIMATE CENTER  
 MIAMI, FLORIDA 33128

MIAMI-DADE COUNTY

DRAINAGE STRUCTURES



SCALE: 1"=5' (HOR.)  
 1"=5' (VER.)  
 REDUCED SCALE: 1"=10' (HOR.)  
 1"=10' (VER.)

ALL PROPOSED DRAINAGE PIPES  
 TO BE POLYPROPYLENE PIPES

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
2/9/2024	Δ	ADDENDUM #1			

REVISIONS	DATE	BY	DESCRIPTION

DATE	DESCRIPTION	DATE	DESCRIPTION
04-2021	RM	04-2021	RM
	CMH		CMH

DESIGNED BY	CHECKED BY	DATE	DATE
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NAME	DATE	DATE	DATE
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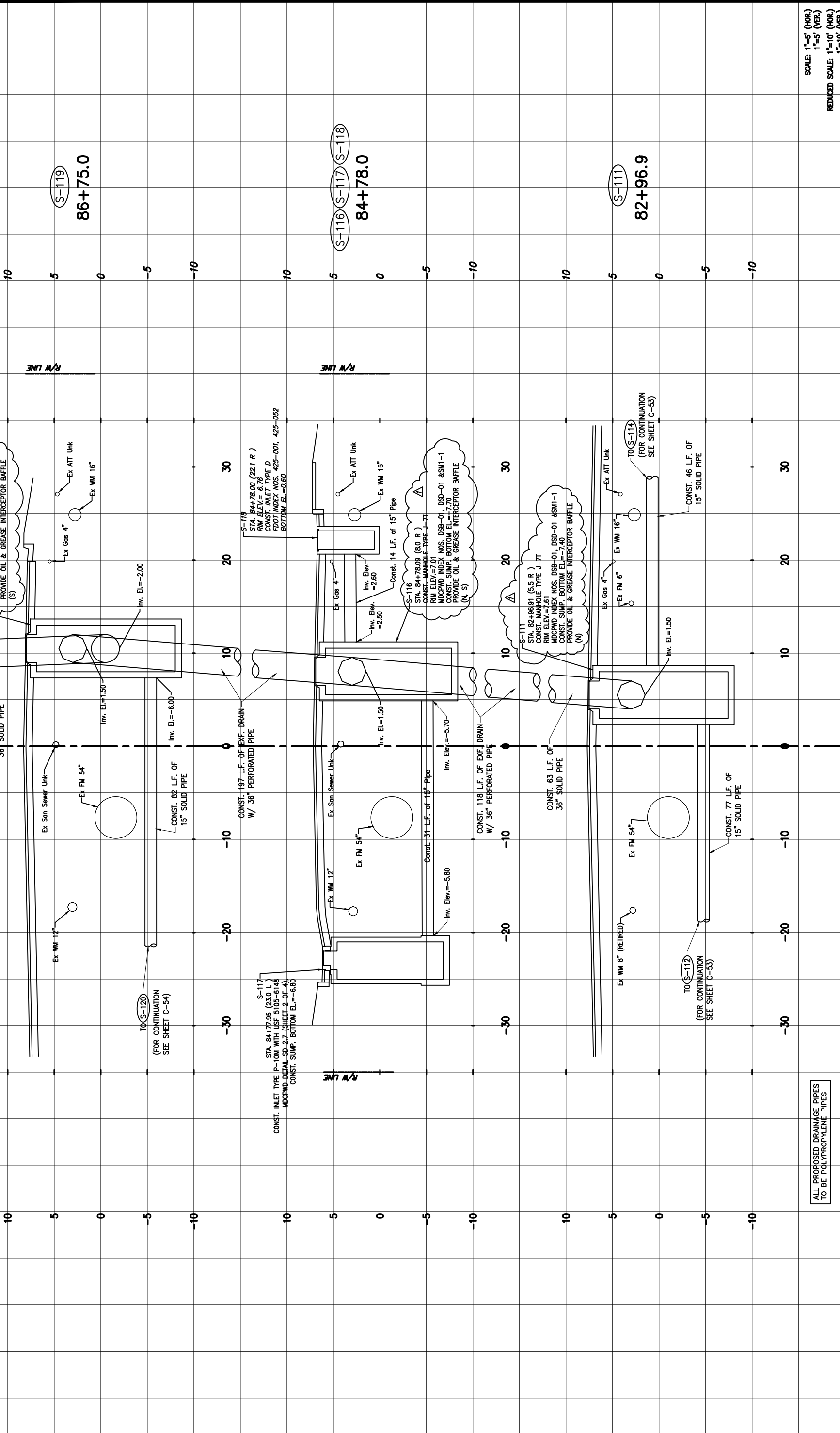
  

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
 STREET P. CLARK CENTER  
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ALL PROPOSED DRAINAGE PIPES TO BE POLYPROPYLENE PIPES

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REVISIONS	DESCRIPTION

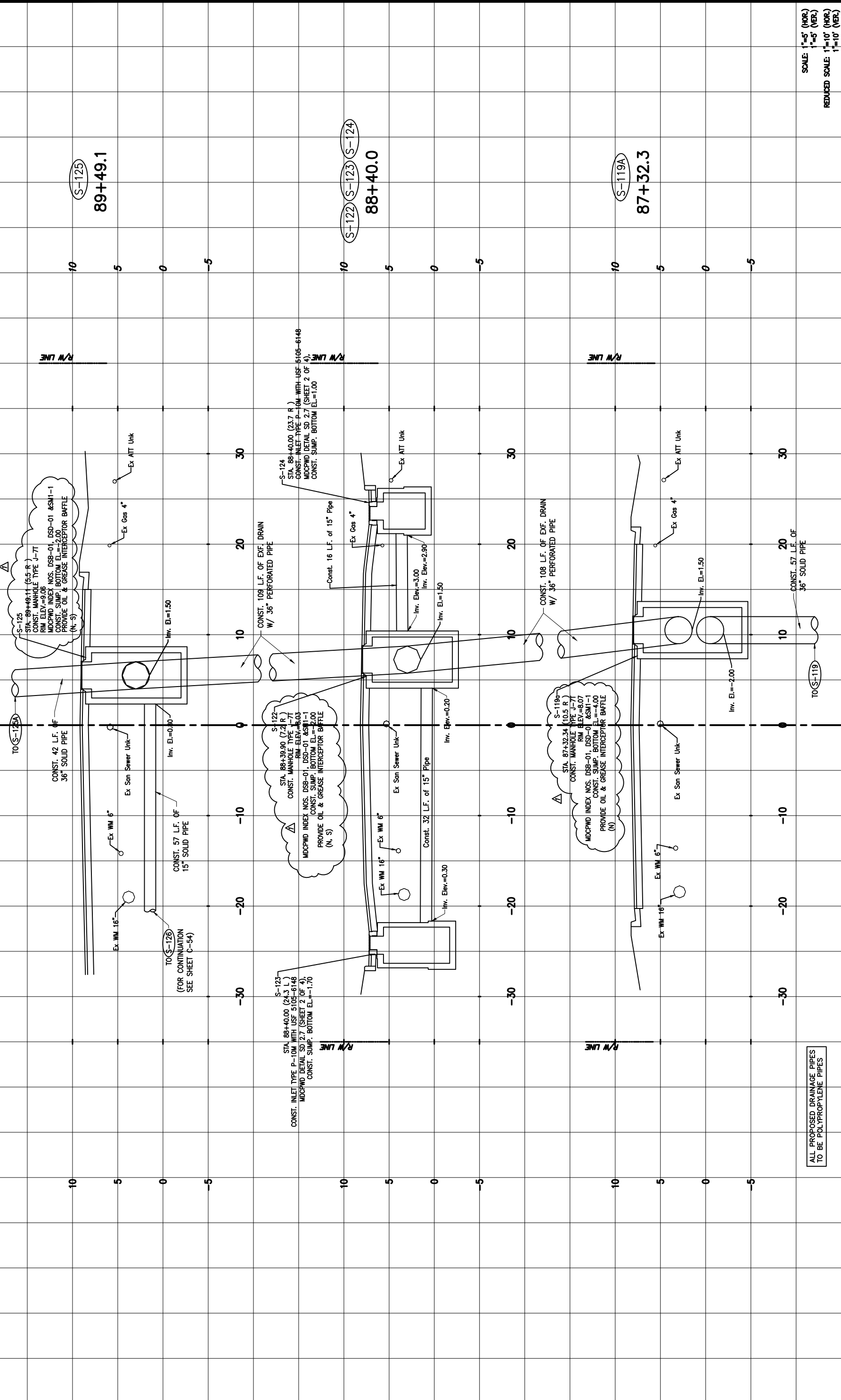
  

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MIAMI-DADE COUNTY

DRAINAGE STRUCTURES





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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY
2/9/2024	Δ	ADDENDUM #1					

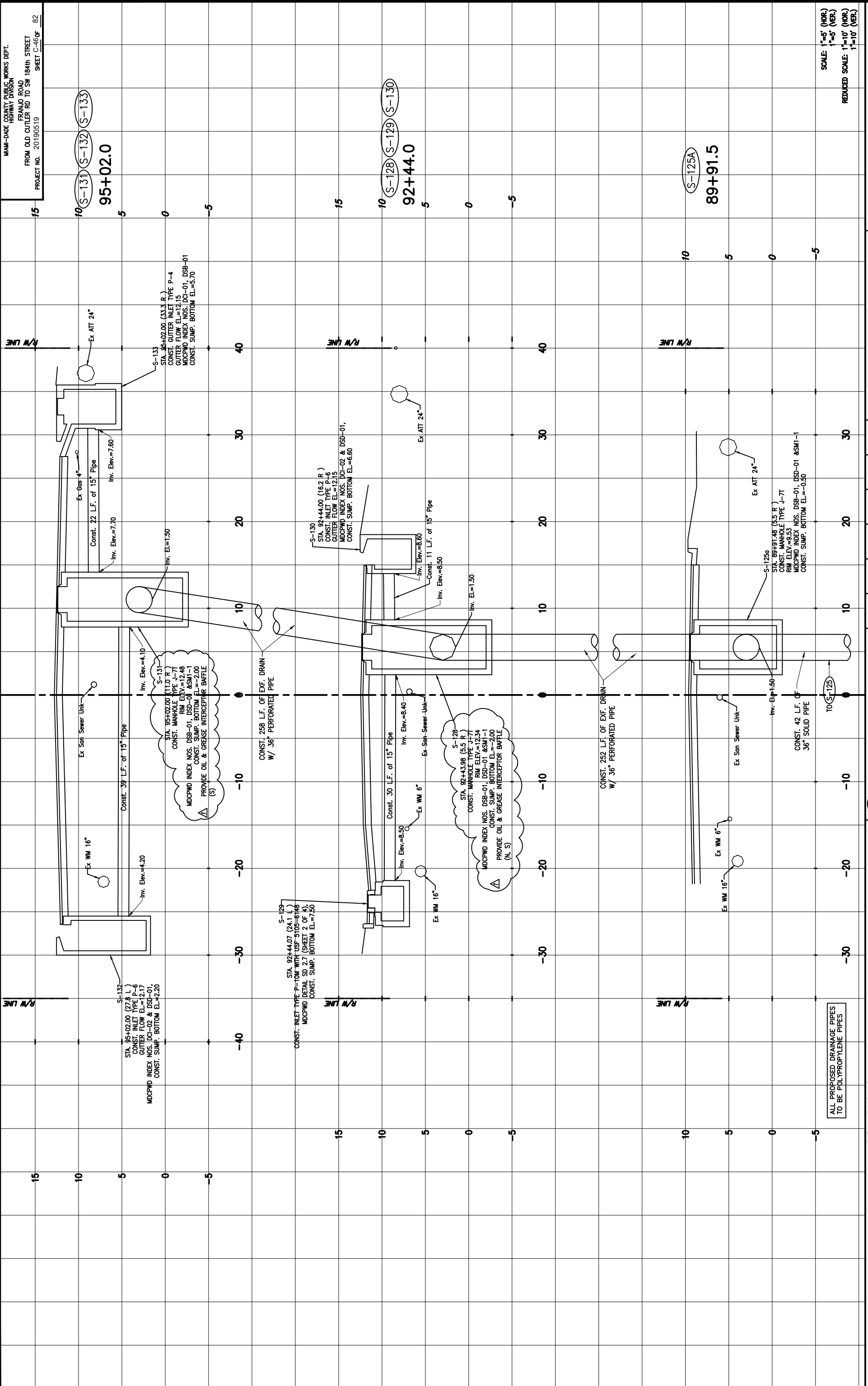
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DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	HIGHWAY DIVISION	STREET P. CLERK CENTER	MIAMI, FL 33134
<b>MIAMI-DADE COUNTY</b>			

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 HIGHWAY DIVISION  
 FRANJO ROAD  
 FROM OLD CUTLER RD TO SW 184th STREET  
 PROJECT NO. 20190519  
 SHEET C-46 OF 82

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
2/9/2024	Δ	ADDENDUM #1			

REVISION	DATE	DESCRIPTION
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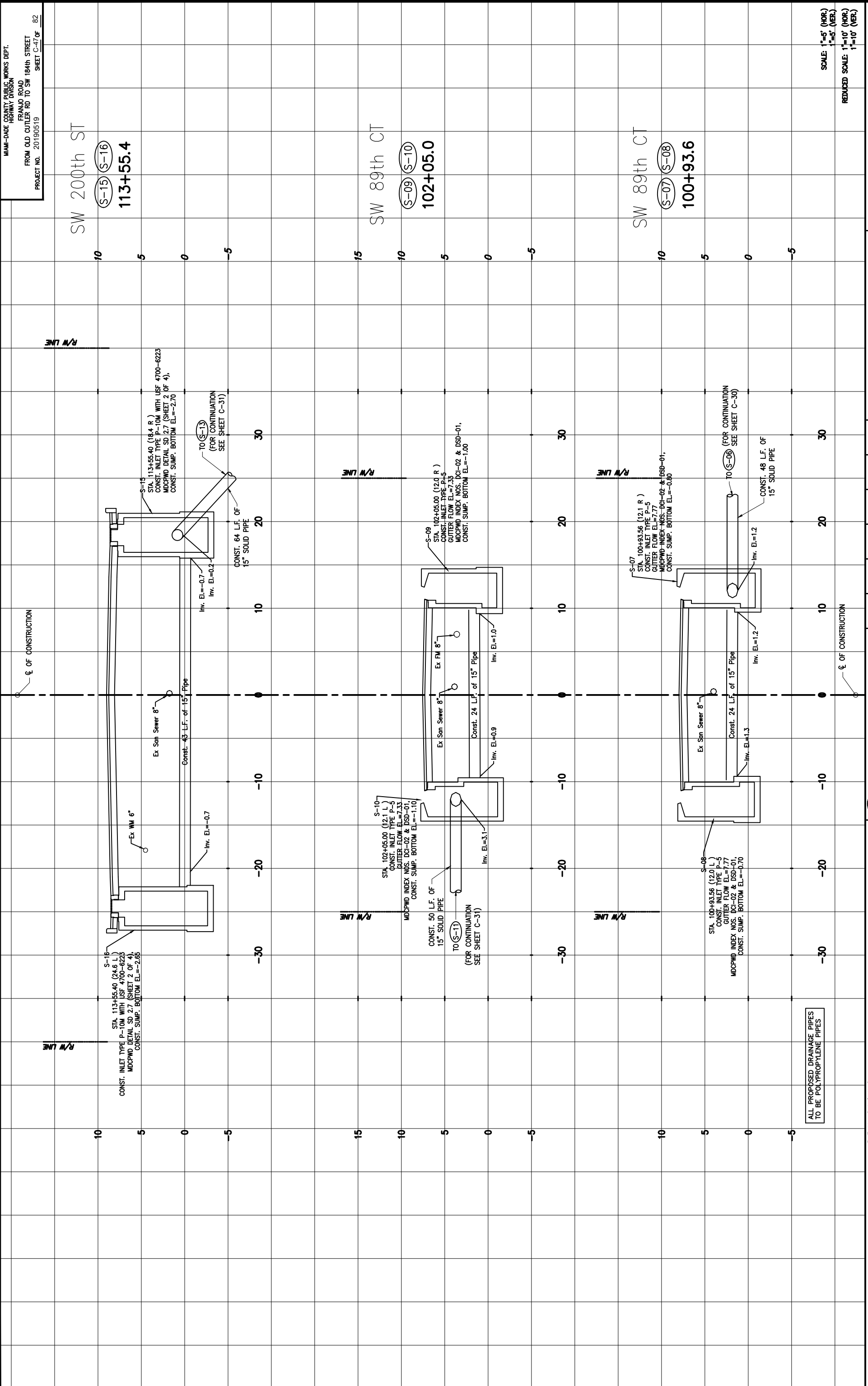
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DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	MIAMI-DADE COUNTY
HIGHWAY DIVISION	
STREET P. CLERK CENTER	
MIAMI, FLORIDA 33128	

SCALE: 1"=5' (HOR.)  
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MIAMI-DADE COUNTY PUBLIC WORKS DEPT.  
 HIGHWAY DIVISION  
 FRANJO ROAD  
 FROM OLD OUTLER RD TO SW 184th STREET  
 PROJECT NO. 20190519  
 SHEET C-47 OF 82

SW 200th ST  
 S-15 S-16  
 113+55.4

SW 89th CT  
 S-09 S-10  
 102+05.0

SW 89th ST  
 S-07 S-08  
 100+93.6

SCALE: 1"=5' (HOR.)  
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REVISIONS		DESCRIPTION		DATE		BY	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

NAME	DATE	NAME	DATE
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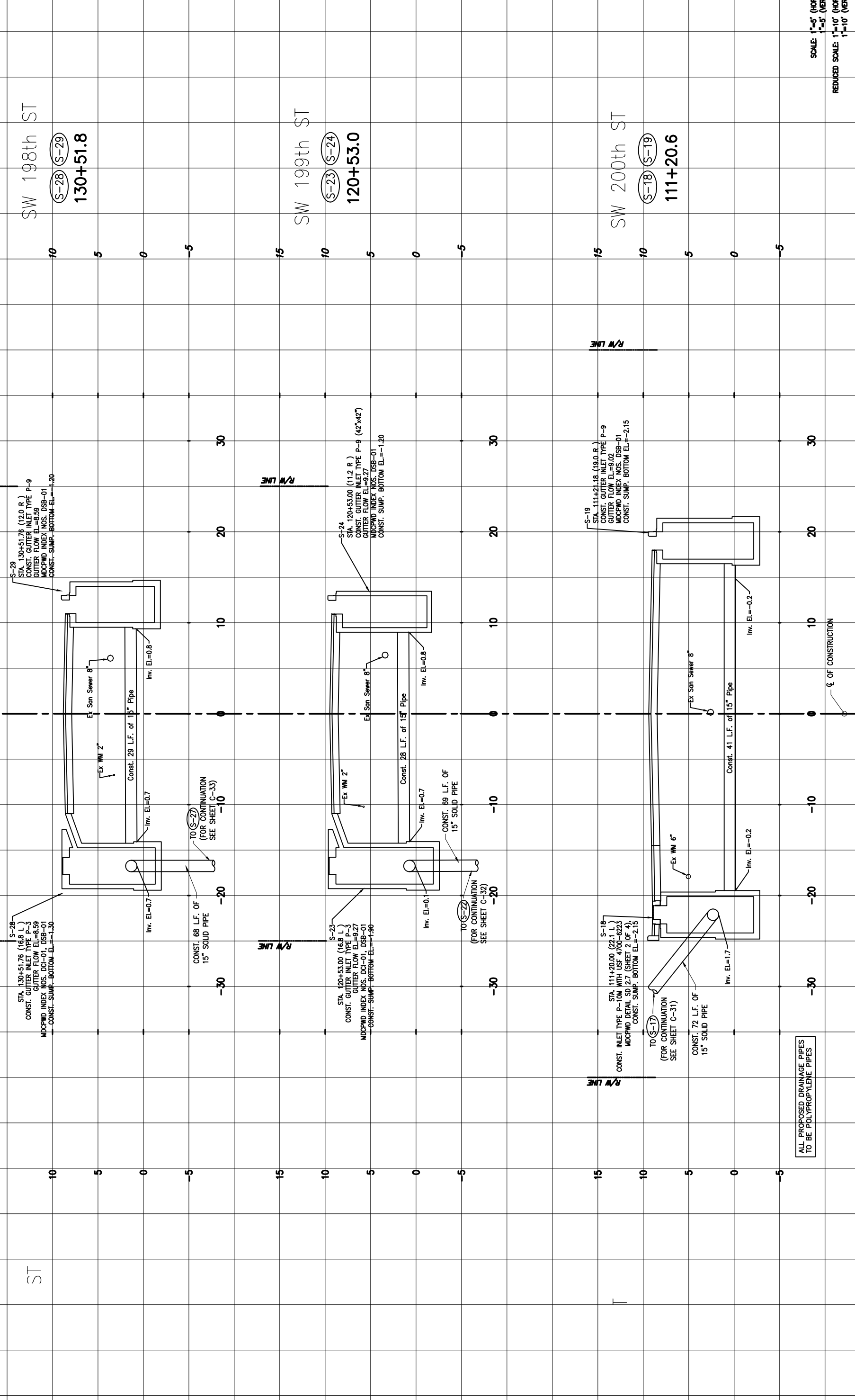
  

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	MIAMI-DADE COUNTY
HIGHWAY DIVISION	
STREET P. CLERK CENTER	
MIAMI, FLORIDA 33128	

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ALL PROPOSED DRAINAGE PIPES TO BE POLYPROPYLENE PIPES



ALL PROPOSED DRAINAGE PIPES  
 TO BE POLYPROPYLENE PIPES

SCALE: 1"=5' (HOR.)  
 1"=5' (VER.)  
 REDUCED SCALE: 1"=10' (HOR.)  
 1"=10' (VER.)

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DESIGNED BY	DATE	NAME	DATE	NAME	DATE	NAME	DATE

REVISION	DESCRIPTION

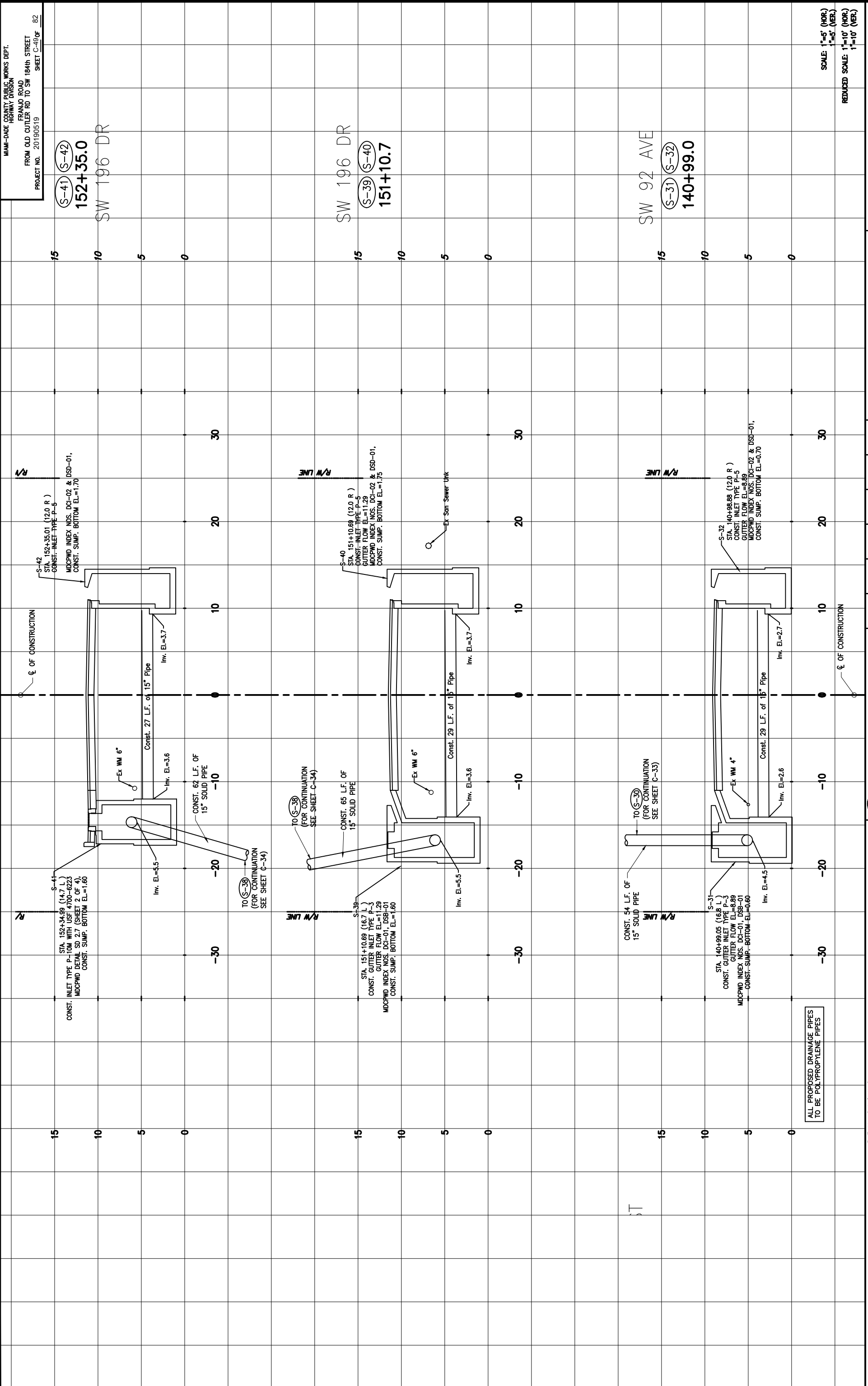
DATE	BY	DESCRIPTION

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MIAMI-DADE COUNTY  
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
 STREET P. CLARK CENTER  
 MIAMI, FLORIDA 33128

**DRAINAGE STRUCTURES**



MIAMI-DADE COUNTY PUBLIC WORKS DEPT.  
 FRANJO ROAD  
 HIGHWAY DIVISION  
 FROM OLD CUTLER RD TO SW 184th STREET  
 PROJECT NO. 20190519  
 SHEET C-49 OF 82

S-41 S-42  
 152+35.0  
 SW 196 DR

S-39 S-40  
 151+10.7  
 SW 196 DR

S-31 S-32  
 140+99.0  
 SW 92 AVE

SCALE: 1"=5' (HOR.)  
 1"=5' (VER.)  
 REDUCED SCALE: 1"=10' (HOR.)  
 1"=10' (VER.)

REVISIONS		DESCRIPTION		DATE		BY	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

DESIGNED BY	DATE	NAME	DATE	NAME	DATE
DRAWN BY	04-2021	CMH	04-2021	CMH	04-2021
CHECKED BY		CMH		CMH	
APPROVED BY		CMH		CMH	

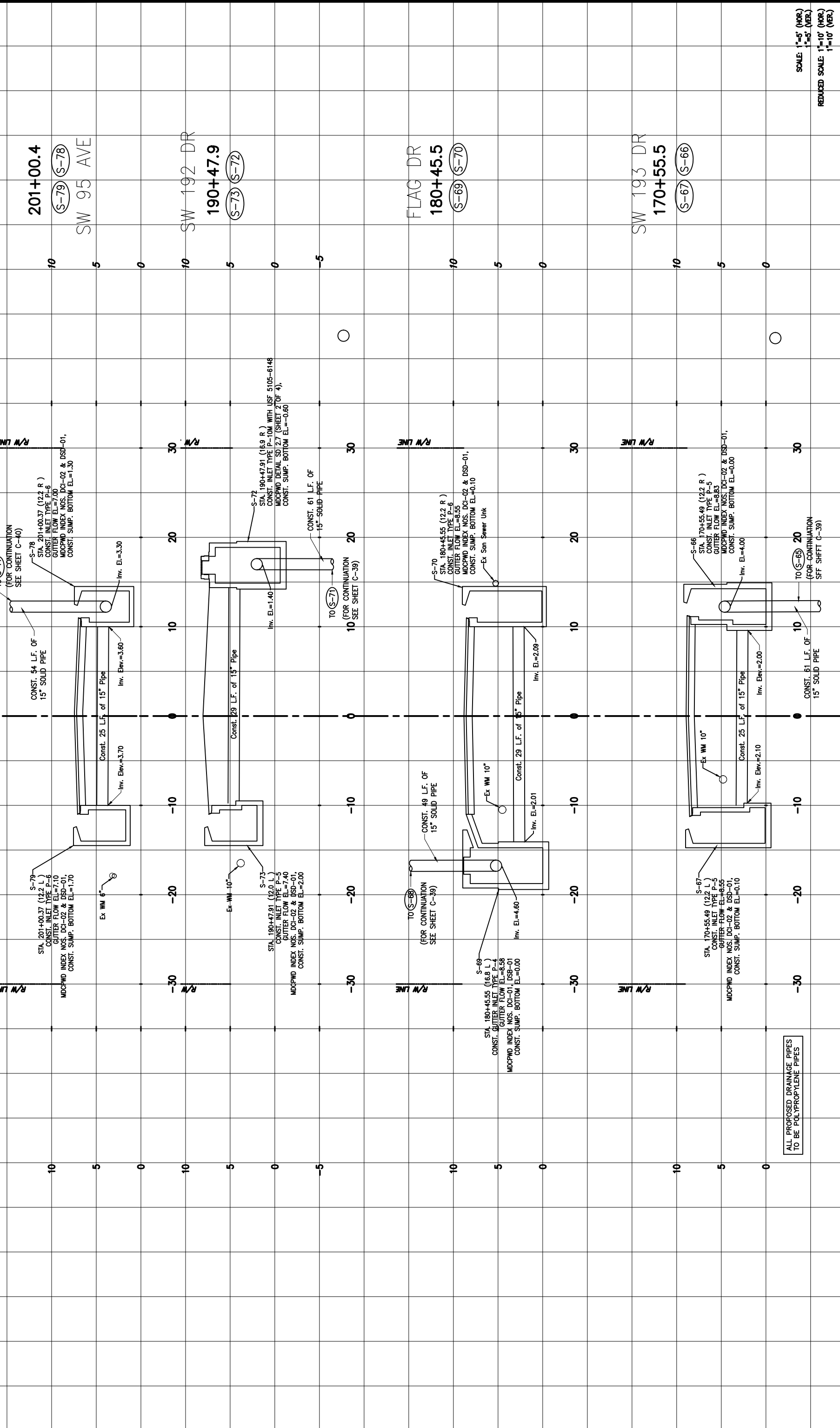
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	MIAMI-DADE COUNTY
HIGHWAY DIVISION	
STREET P. CARE CENTER	
MIAMI, FLORIDA, 33128	

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING. ANY ERRORS OR OMISSIONS ARE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.

**Stantec**  
 Code: G0446; B0434  
 www.stantec.com

**DRAINAGE STRUCTURES**



ALL PROPOSED DRAINAGE PIPES  
 TO BE POLYPROPYLENE PIPES

SCALE: 1"=5' (HOR.)  
 1"=5' (VER.)  
 REDUCED SCALE: 1"=10' (HOR.)  
 1"=10' (VER.)

REVISIONS		DESCRIPTION		DATE		BY	
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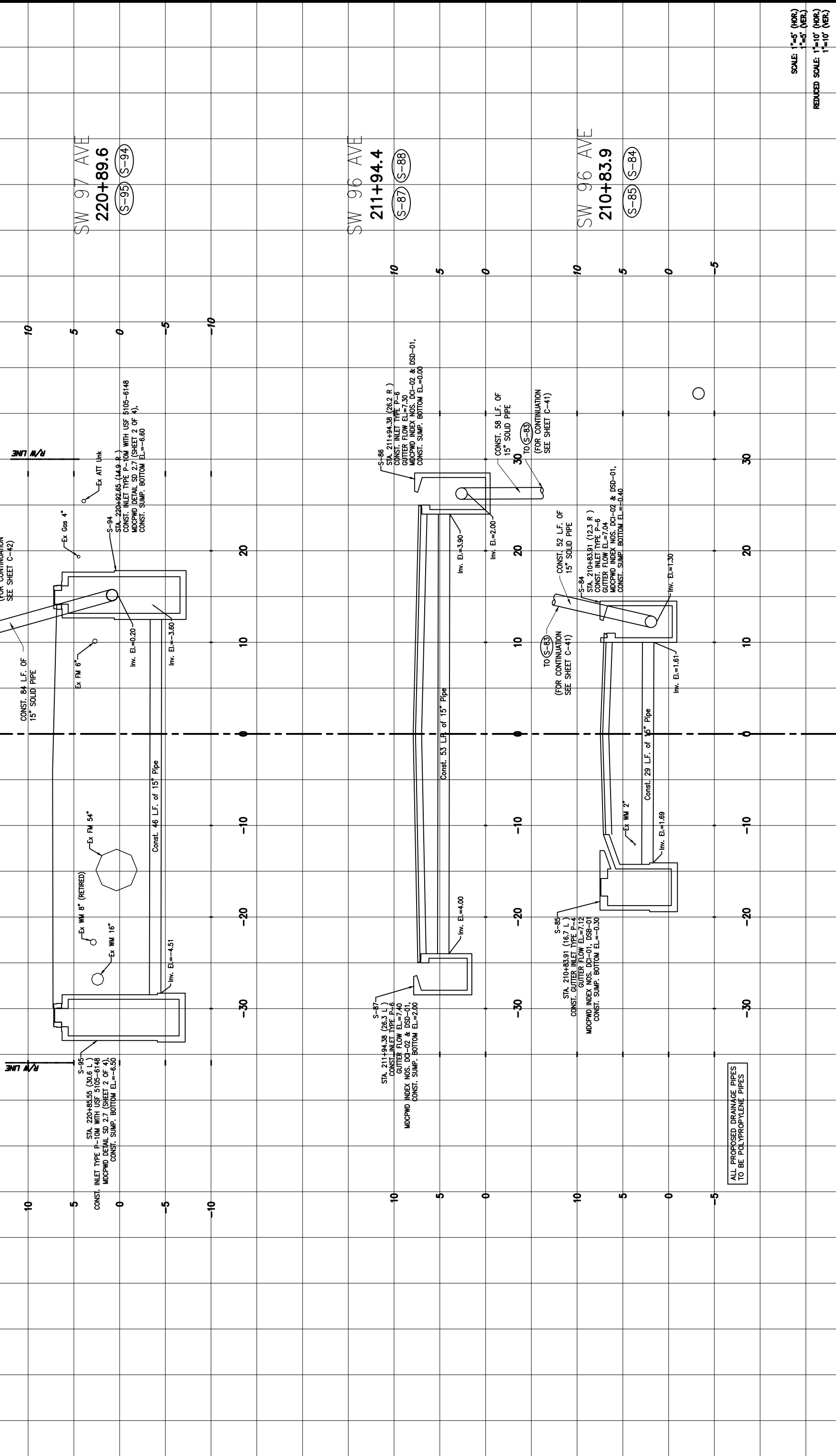
  

DESIGNED BY	NAME	DATE	NAME	DATE
DRAWN BY	NAME	DATE	DRAWN BY	DATE
CHECKED BY	NAME	DATE	CHECKED BY	DATE
SUPERVISED BY	NAME	DATE	SUPERVISED BY	DATE

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS HIGHWAY DIVISION STRENGTH & CARE CENTER MIAMI, FLORIDA 33128	MIAMI-DADE COUNTY	DRAINAGE STRUCTURES
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ALL PROPOSED DRAINAGE PIPES  
 TO BE POLYPROPYLENE PIPES

R/W LINE

R/W LINE

SW 97 AVE  
 220+89.6  
 (S-95) (S-94)

SW 96 AVE  
 211+94.4  
 (S-87) (S-88)

SW 96 AVE  
 210+83.9  
 (S-85) (S-84)

SCALE: 1"=5' (HOR.)  
 1"=5' (VER.)  
 REDUCED SCALE: 1"=10' (HOR.)  
 1"=10' (VER.)

REVISIONS		DESCRIPTION		DATE		BY	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

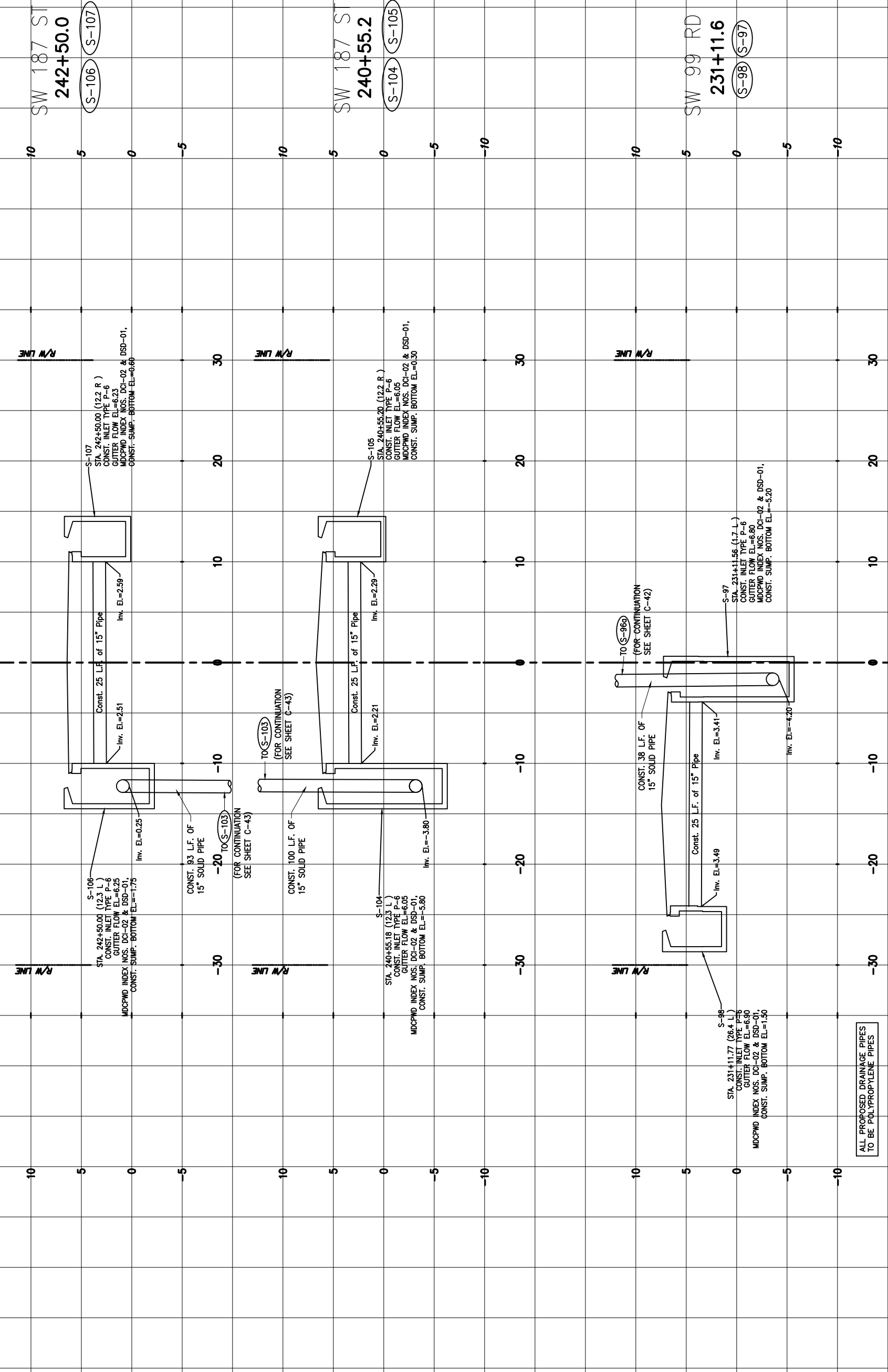
  

DESIGNED BY	CHECKED BY	DATE	NAME	DATE	NAME	DATE	NAME

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	MIAMI-DADE COUNTY
HIGHWAY DIVISION STEVEN P. CLARK CENTER MIAMI, FLORIDA 33128	DRAINAGE STRUCTURES





ALL PROPOSED DRAINAGE PIPES  
 TO BE POLYPROPYLENE PIPES

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DESIGNED BY	CHECKED BY	DATE	NAME	DATE	NAME
		04-2021	CMH	04-2021	CMH

DATE	BY	DESCRIPTION

DATE	BY	DESCRIPTION

REVISIONS

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 1"=5' (VER.)  
 REDUCED SCALE: 1"=10' (HOR.)  
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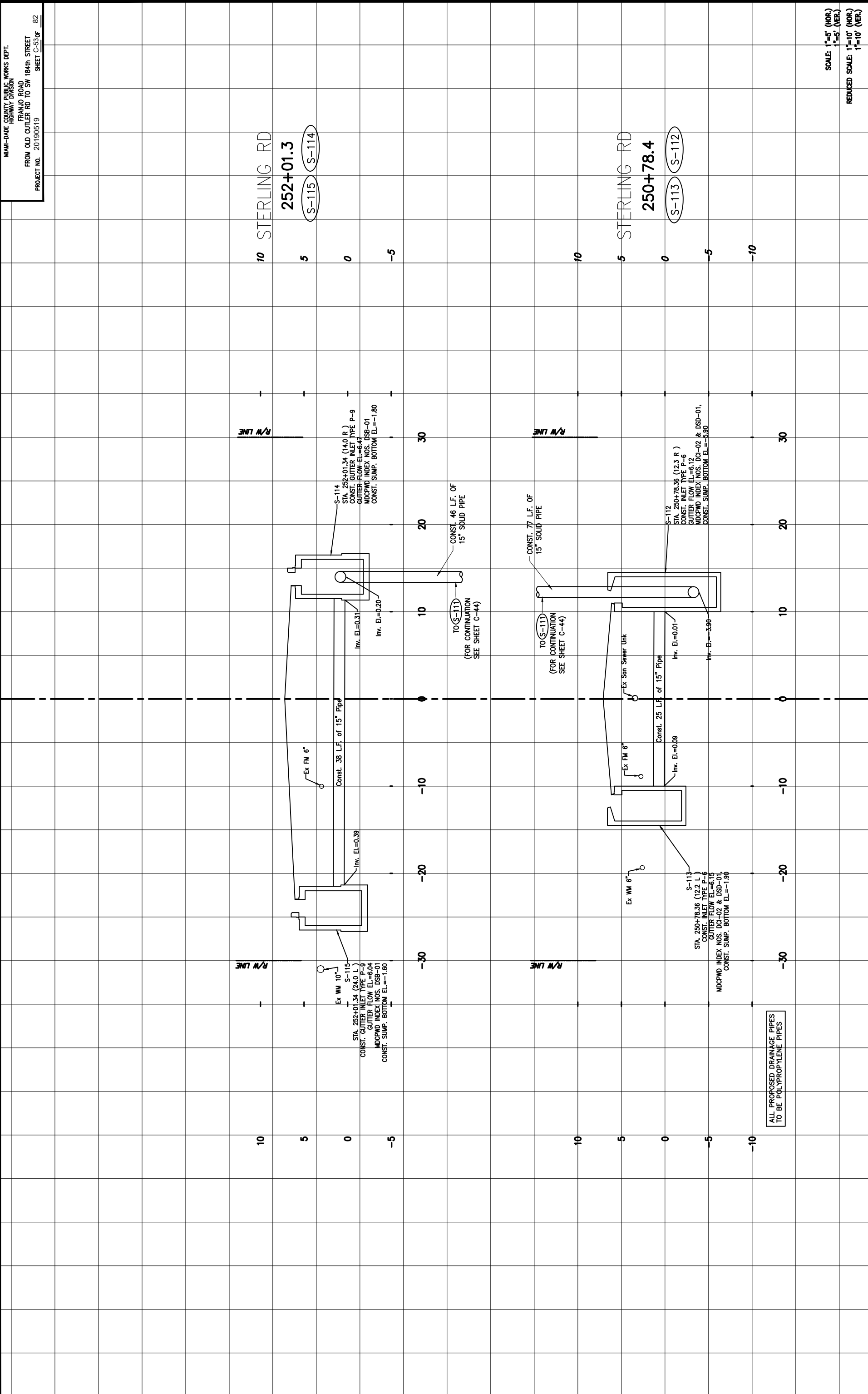


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DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
 STREET P. CLARK CENTER  
 MIAMI, FLORIDA 33128

DRAINAGE STRUCTURES



ALL PROPOSED DRAINAGE PIPES  
 TO BE POLYPROPYLENE PIPES

SCALE: 1"=5' (HOR.)  
 1"=5' (VER.)  
 REDUCED SCALE: 1"=10' (HOR.)  
 1"=10' (VER.)

REVISIONS		DATE		BY		DESCRIPTION	
NO.	DATE	BY	DESCRIPTION	NO.	DATE	BY	DESCRIPTION

DESIGNED BY	DATE	NAME	DATE	NAME	DATE	NAME	DATE

DRAWN BY	DATE	NAME	DATE	NAME	DATE	NAME	DATE

CHECKED BY	DATE	NAME	DATE	NAME	DATE	NAME	DATE

SUPERVISED BY	DATE	NAME	DATE	NAME	DATE	NAME	DATE

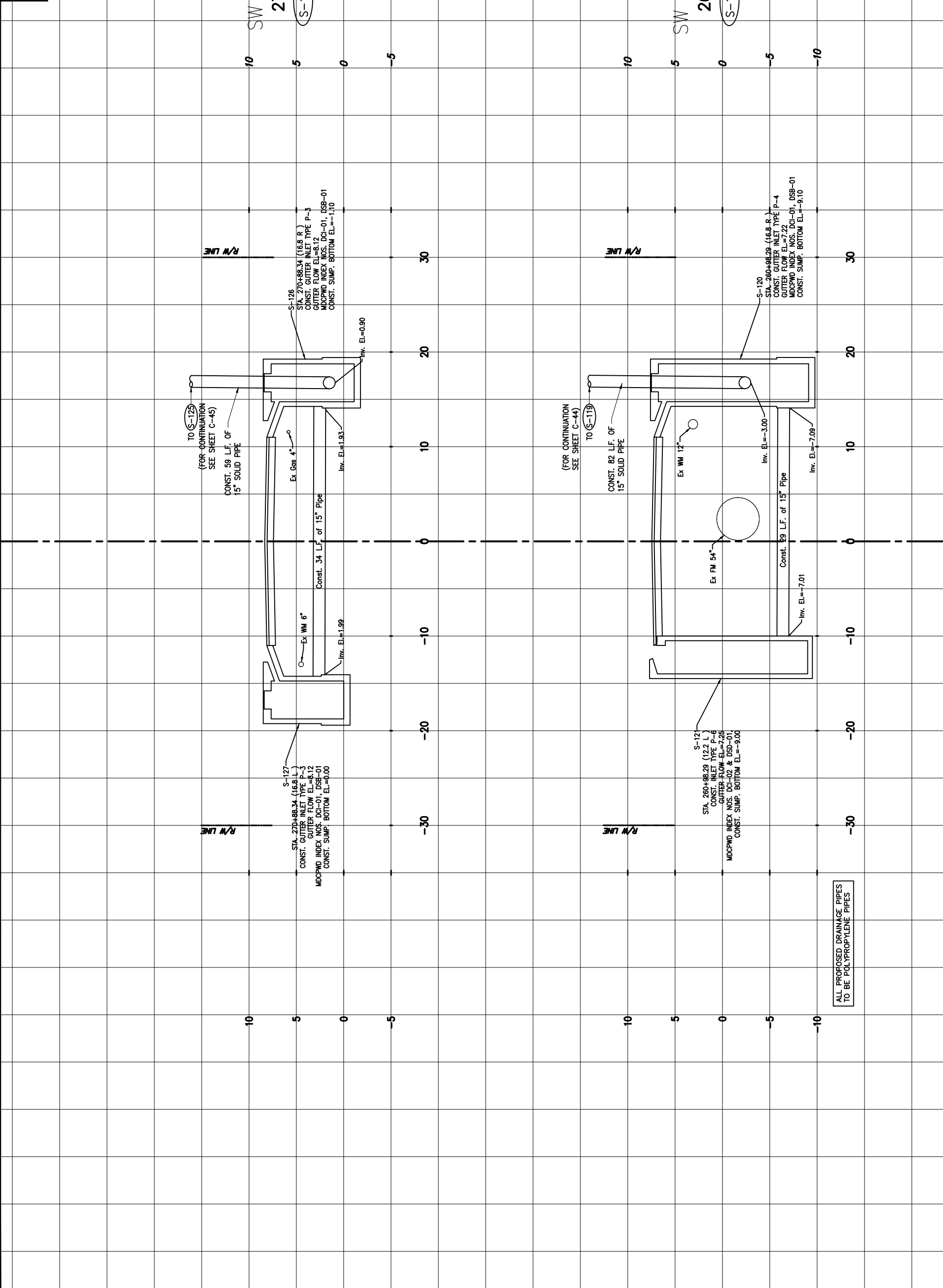
  

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS	DATE	NAME	DATE	NAME	DATE	NAME	DATE

MIAMI-DADE COUNTY  
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
 STREET P. O. BOX CENTER  
 MIAMI, FLORIDA 33128





SCALE: 1"=5' (HOR.)  
 1"=5' (VER.)  
 REDUCED SCALE: 1"=10' (HOR.)  
 1"=10' (VER.)

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

NAME	DATE	DATE	DATE
DESIGNED BY: CMH	04-2020	04-2020	04-2021
CHECKED BY: CMH			
DRAWN BY: CMH			
DATE: 04-2021			

REVISION	DESCRIPTION

DATE	DESCRIPTION

MIAMI-DADE COUNTY  
 DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
 HIGHWAY DIVISION  
 STEPHEN P. CLARK, CHIEF ENGINEER  
 MIAMI, FL 33134, 3128

**Stantec**  
 1000 Brickell Avenue, Suite 200  
 Miami, Florida 33131  
 www.stantec.com

**GENERAL NOTES:**

1. The French Drain Skimmer is a hooded cover, mounted over an outlet in a catchbasin, that prevents oil and floating debris from exiting the basin.
2. Place neoprene gasket material between the skimmer and the catchbasin at all points of contact. Trim the gasket to extend 1/2 inch beyond the joint on all sides.
3. Provide skimmer baffle, cleanout pipe and angles constructed of either galvanized steel, aluminum, polyvinyl chloride, polyethylene, fiberglass or acrylonitrile butadiene styrene. Provide hot-dip galvanized steel components, unless stainless.
4. Use Mounting hardware, hinges and latches made of stainless steel. Loss prevention device can use either stainless steel chain or riveted nylon strap.
5. Provide skimmer bodies (baffles) and cleanout pipe meeting Specification 943 for steel, 945 for aluminum or 948 for plastics.
6. Work this Index in accordance with Specification 425.

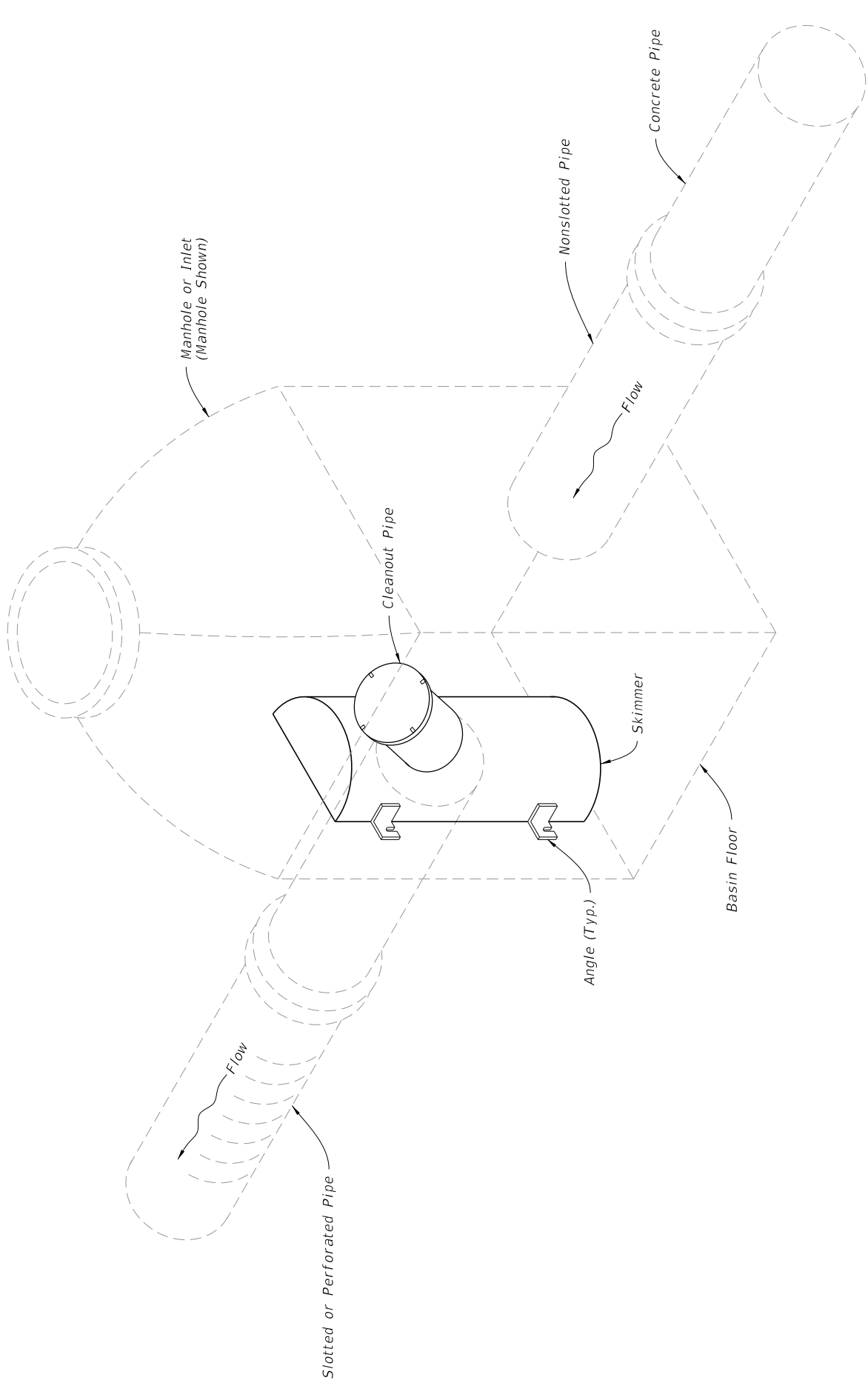


TABLE OF CONTENTS:	
Sheet	Description
1	General Notes and Contents
2	Type I Skimmers
3	Type II Skimmers

SKIMMER FOR FRENCH DRAIN OUTLETS ASSEMBLY

LAST REVISION  
11/01/19

DESCRIPTION:

FDOT  
FY 2022-23  
STANDARD PLANS

SKIMMERS FOR FRENCH DRAIN OUTLETS

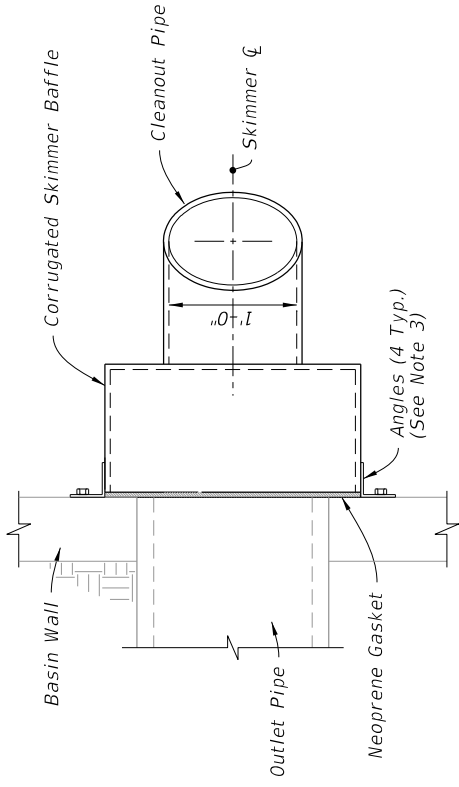
INDEX  
443-002

SHEET  
1 of 3

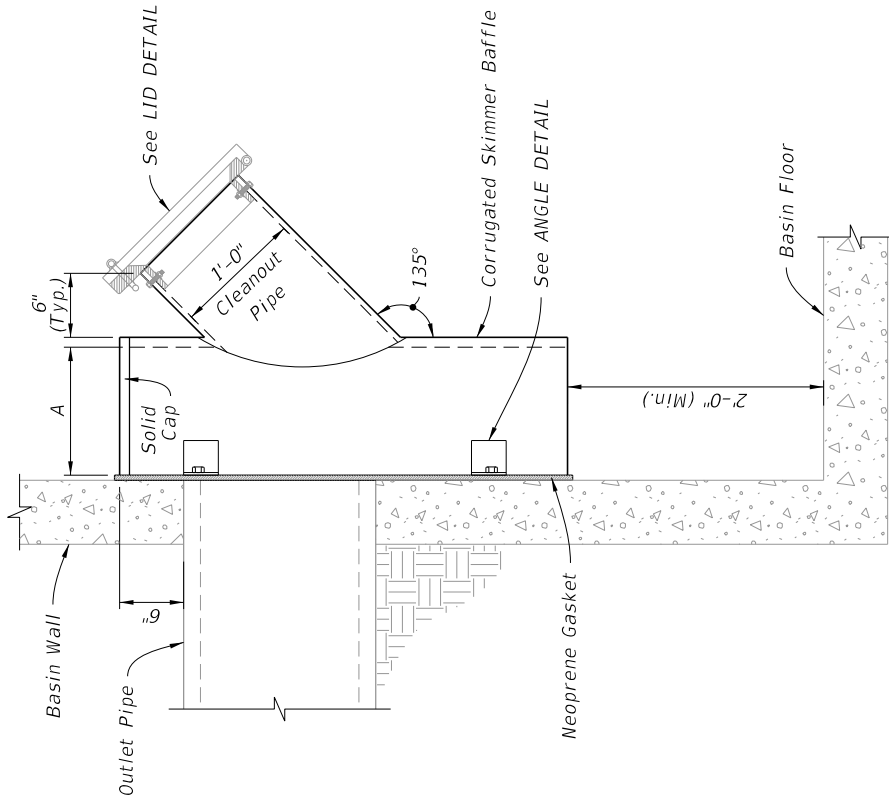
**NOTES:**

1. Conform the backs of skimmers to the shape of the basin walls on which they are mounted.
2. "R" is the radii required for curved back skimmers. Applies to both skimmer types. See Plans.
3. Weld Angles at all points of contact with skimmer.

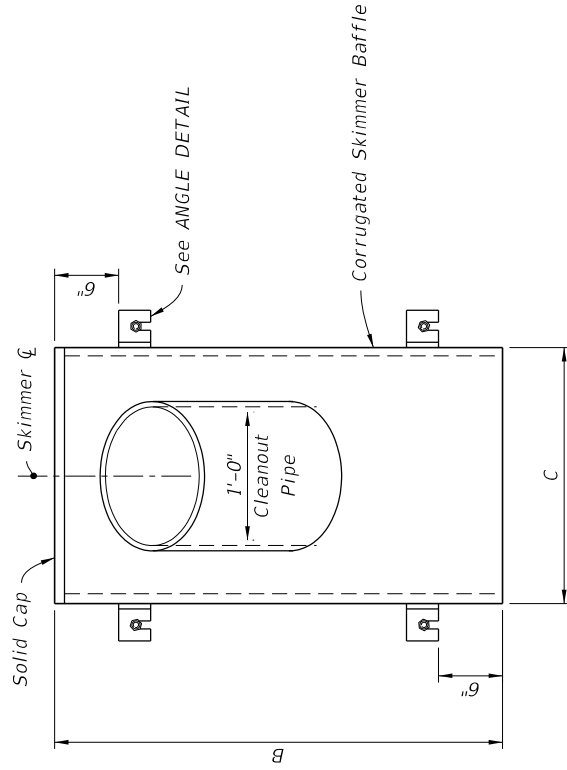
DIMENSION TABLE			
OUTLET PIPE	A	B	C
18"	12"	42"	24"
24"	15"	48"	30"
30"	18"	54"	36"
36"	21"	60"	42"



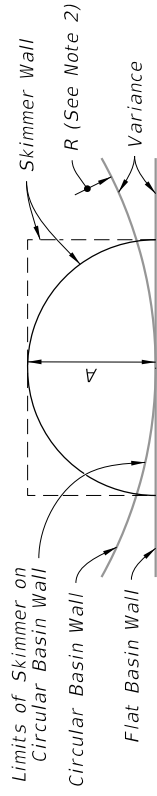
PLAN



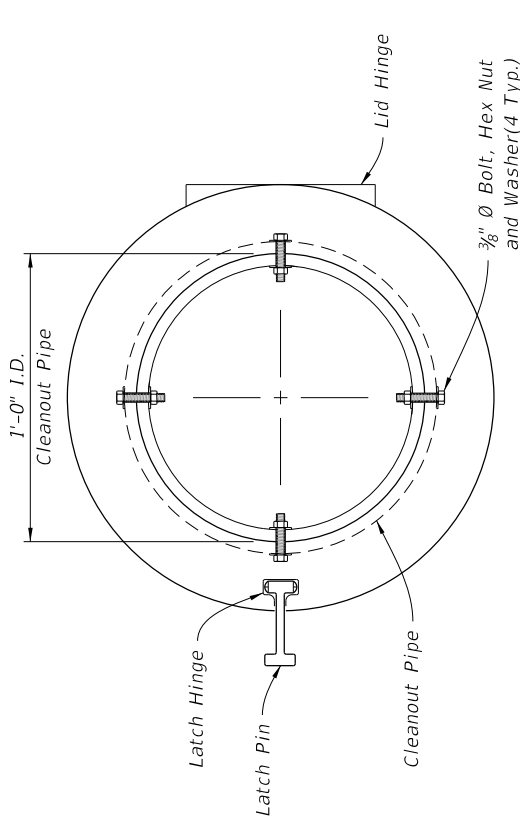
SIDE ELEVATION



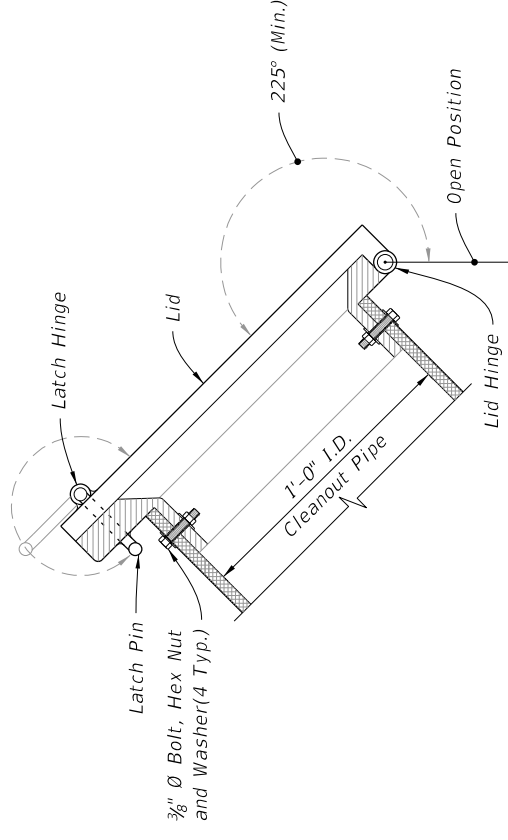
FRONT ELEVATION



SCHEMATIC VIEW

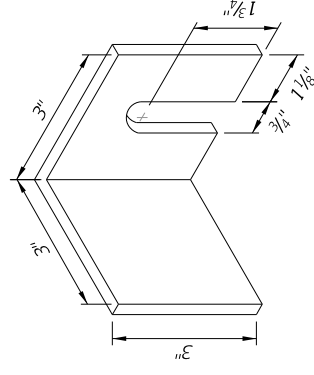


PLAN



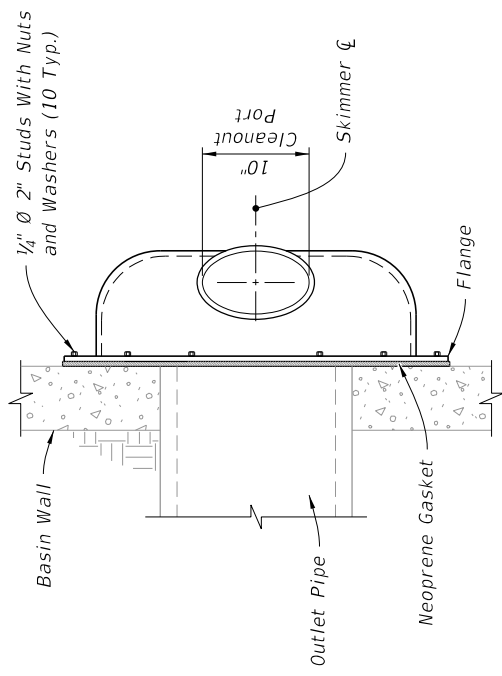
SIDE ELEVATION

LID DETAIL

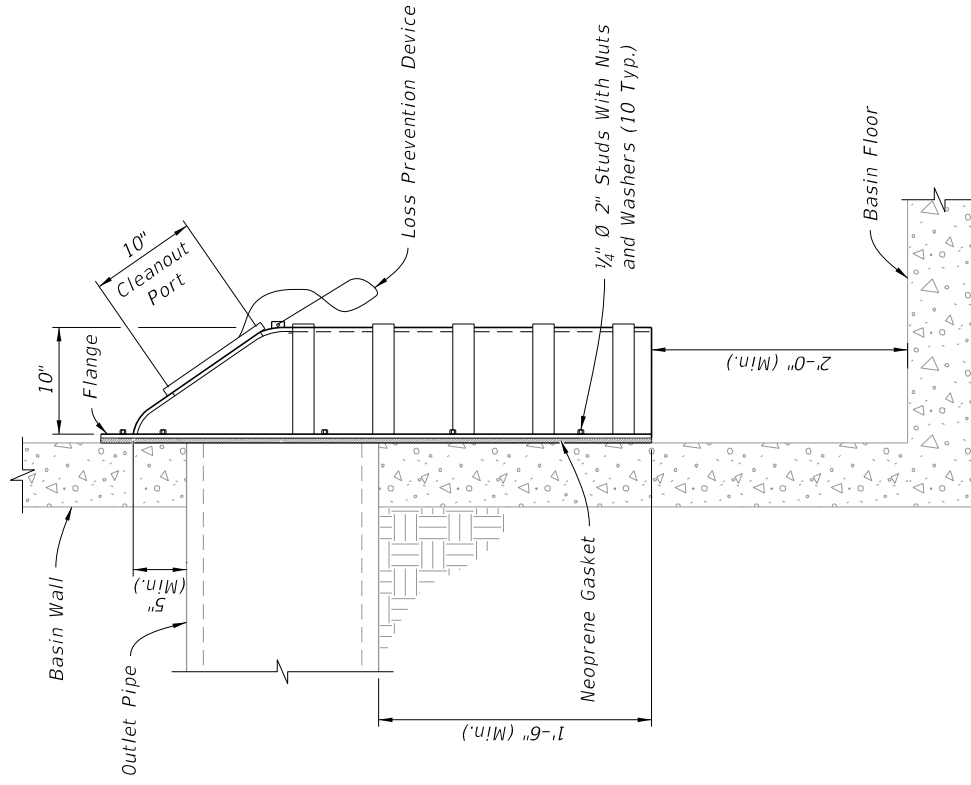


ANGLE DETAIL





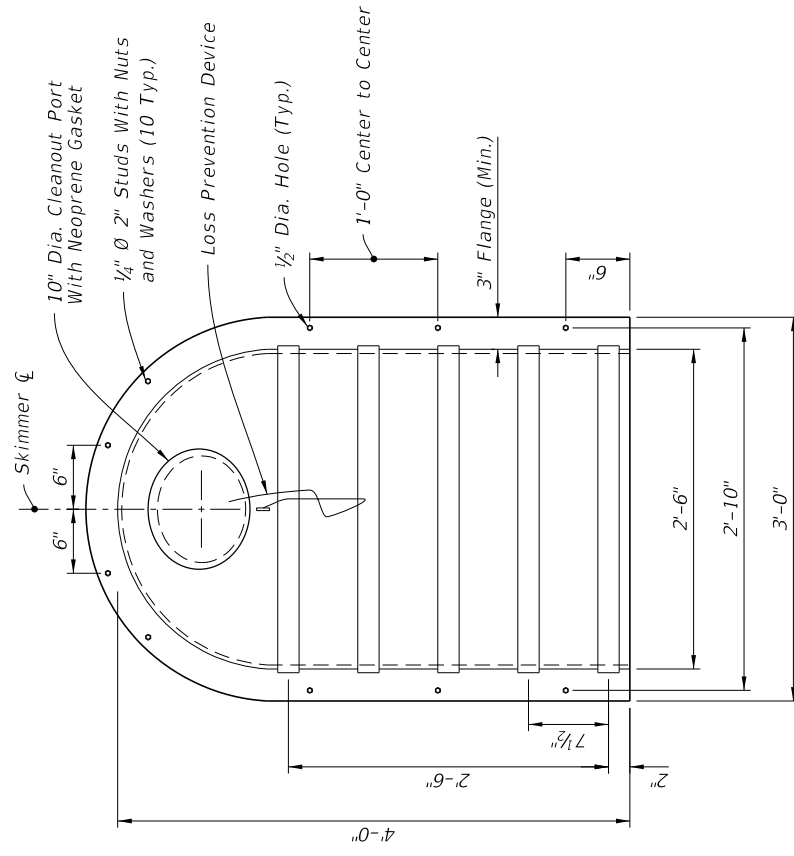
PLAN



SIDE ELEVATION

**NOTE:**

1. Install a gasket for the cleanout with either a threaded screw-in lid or a lid secured by four stainless steel quick-release latches.



FRONT ELEVATION

TYPE II DETAILS

TYPE II SKIMMERS

INDEX  
443-002

SHEET  
3 of 3

SKIMMERS FOR FRENCH DRAIN OUTLETS

FY 2022-23  
STANDARD PLANS

DESCRIPTION:  
REVISION

LAST REVISION  
11/01/19