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

STANDARD INDEX DRAWINGS

83–85	FDOT INDEX 520–001	CURB, CURB AND GUTTER
86	DCI–01	CURB INLET TYPES 1, 2, 3 & 4
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88	DDI–03	STANDARD DITCH BOTTOM INLETS TYPE C,D,E & H
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95	3–E	DETAIL OF EXFILTRATION DRAIN WITH PERFORATED PIPE
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102	GEC–04	ERROSION CONTROL DEVICES SILT BARRIERS
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110–116	FDOT INDEX 522–002	DETECTABLE WARNING & PUBLIC SIDEWALK CURB RAMPS
⚠ 117–119	FDOT INDEX 443–002	SKIMMERS FOR FRENCH DRAIN OUTLETS

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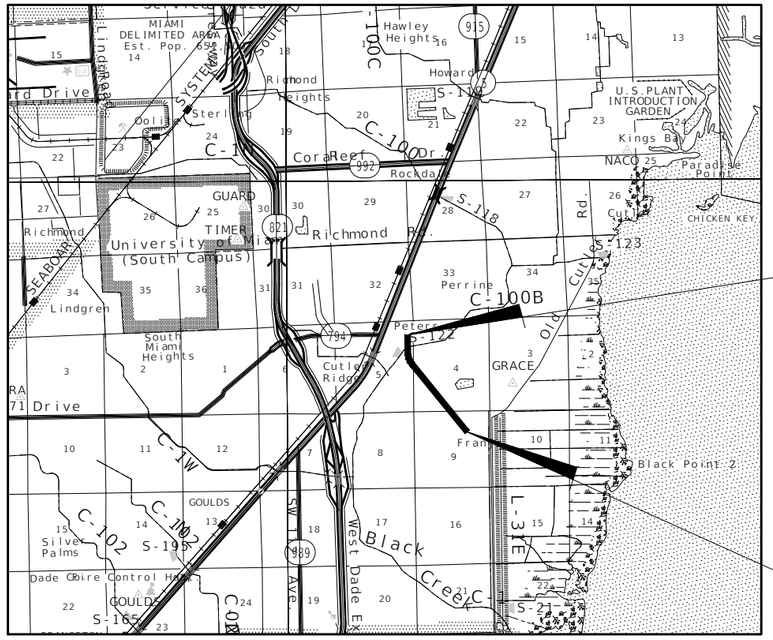


END PROJECT
STA 95+80

BEGIN PROJECT
STA 10+96.94

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

PREPARED FOR

TOWN OF CUTLER BAY

Cutler Bay FLORIDA INCORPORATED 2005

BY

Stantec

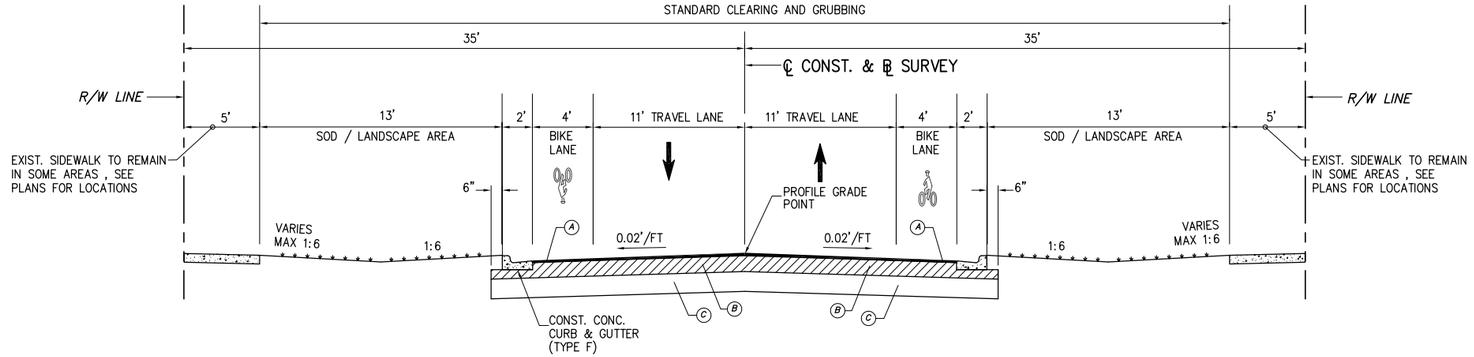
901 Ponce de Leon Blvd. Suite 900
Coral Gables, Florida 33134
www.stantec.com

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.

ENGINEER OF RECORD:

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



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)

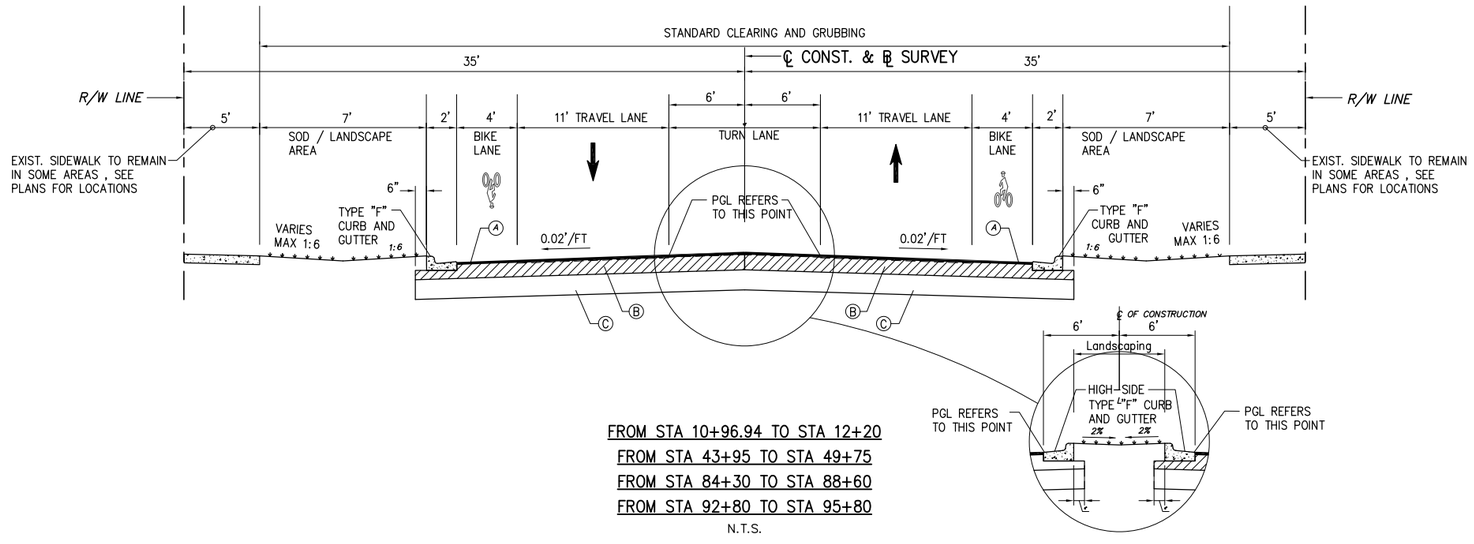
FROM STA 12+20 TO STA 92+80

N.T.S.

NEW CONSTRUCTION

- (A) TYPE SP STRUCTURAL COURSE (2") (TRAFFIC C) FRICTION 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



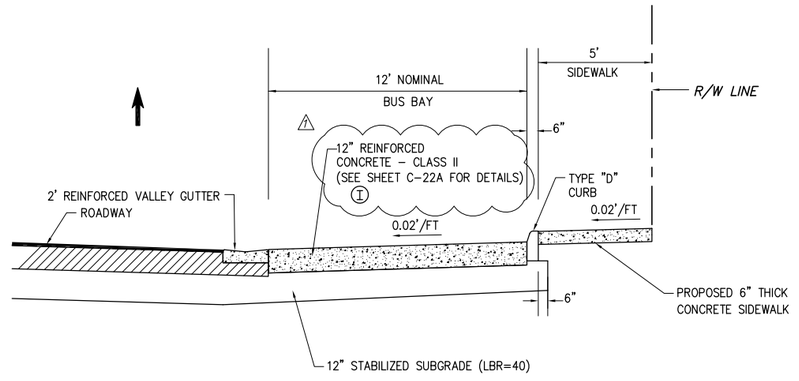
FROM STA 10+96.94 TO STA 12+20
FROM STA 43+95 TO STA 49+75
FROM STA 84+30 TO STA 88+60
FROM STA 92+80 TO STA 95+80

N.T.S.

NEW CONSTRUCTION

- (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)

N.T.S.



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

(SEE PLANS FOR LOCATIONS)

N.T.S.

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

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Coral Gables, Florida 33134
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	NAME	DATE		NAME	DATE
DESIGNED BY	CMH	02/16/2021	DRAWN BY	RM	02/16/2021
CHECKED BY	CMH		CHECKED BY	CMH	

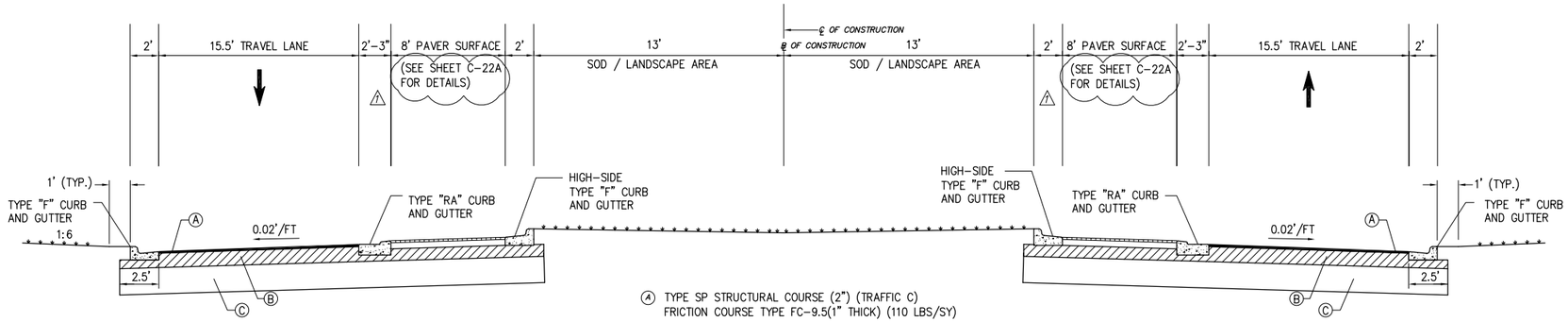
SUPERVISED BY:

MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

TYPICAL SECTIONS

PLOTTED BY: SAAVEDRA, MAYRA DATE: 2/12/2024 1:02 PM
CREATED: 2024-02-12 - V:\215#\ACTIVE\215615952\CIVIL\DESIGN\DRAWING\CIVIL PLANS\15952 TYPICAL SECTIONS.DWG



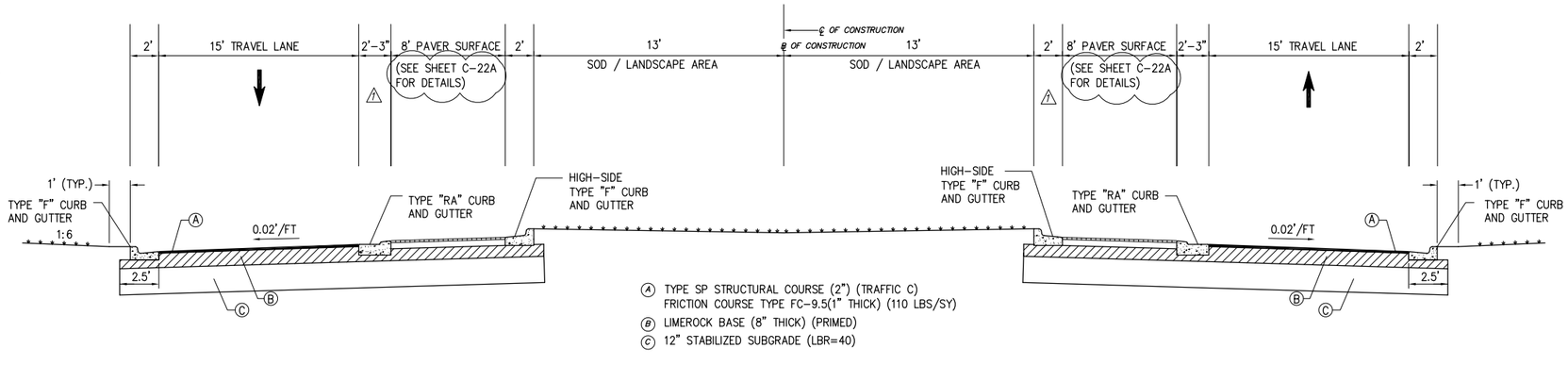
Ⓐ TYPE SP STRUCTURAL COURSE (2") (TRAFFIC C) FRICTION COURSE TYPE FC-9.5(1" THICK) (110 LBS/SY)
Ⓑ LIMEROCK BASE (8" THICK) (PRIMED)
Ⓒ 12" STABILIZED SUBGRADE (LBR=40)

DESIGN SPEED 25 MPH

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



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

DESIGN SPEED 25 MPH

SW 192 DRIVE
N.T.S.

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

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DESIGNED BY	CMH	02/16/2021	DRAWN BY	RM	02/16/2021
CHECKED BY	CMH		CHECKED BY	CMH	

SUPERVISED BY:

MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

TYPICAL SECTIONS

PLOTTED BY: SAAVEDRA, MAYRA DATE: 2/12/2024 1:01 PM
CREATED: 2024-02-12 - V:\216\ACTIVE\216159521\CIVIL\DESIGN\DRAWING\CIVIL PLANS\159521 TYPICAL SECTIONS.DWG

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
	ADJUST AND/OR RELOCATE EXISTING WATER METERS BOXES	EACH	53	5	58
	ADJUST EXISTING MANHOLE COVERS	EACH	36	4	40
	ADJUST AND/OR RELOCATE EXISTING MAIL BOXES	EACH	8	1	9
	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
425-1-521	INLET 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 PATTERNED PAVEMENT	S.Y.	134	20	154
526-1-1	CONCRETE PAVER 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)

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 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, 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 ITEM 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

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.

SUMMARY OF EARTHWORK	
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

REVISIONS

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

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

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

SUPERVISED BY:

MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

SUMMARY OF QUANTITIES

GENERAL NOTES

1. B.M. DATA IS NATIONAL GEODETIC VERTICAL DATUM OF 1929 (N.G.V.D.-29).
2. 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 RON TAYLOR, FLORIDA DEPT. OF ENVIRONMENTAL PROTECTION (FDEP) SURVEYING AND MAPPING, 3900 COMMONWEALTH BLVD., MAIL STATION 105, TALLAHASSEE, FLORIDA 32399-3000 TELEPHONE (850) 245-2606.
3. 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.
4. ALL STATIONS AND OFFSETS REFER TO CENTERLINE OF CONSTRUCTION, UNLESS OTHERWISE STATED.
5. ALL GRADES SHOWN IN PLAN ARE FINISHED GRADES.
6. 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.
7. 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. EXISTING TOPOGRAPHIC INFORMATION WAS OBTAINED FROM SURVEY PREPARED BY LONGITUDE SURVEYORS LLC.
11. 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. CONTRACTOR SHALL CALL ALL UTILITY COMPANIES TO VERIFY EXACT LOCATION OF ALL UTILITIES PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL COORDINATE WORK WITH ALL UTILITY COMPANIES, TOWN OF CUTLER BAY AND OTHER CONTRACTORS TO MINIMIZE DISRUPTION OR INTERFERENCE TO THE CONTRACTOR'S WORK.
12. 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 MDWASD 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:
    FP&L (800) 868-9554 & (305) 442-5172 EDGAR AGUILAR
    AT&T (305) 222-8745 (561) 997-0240 DINO FARRUGGIO
    MIAMI-DADE WATER AND SEWER DEPT. (786) 268-5393 ALBERTO AGUILERA
    COMCAST CABLE (954) 239-8386 CHRISTOPHER TAYLOR
    FLORIDA CITY GAS (305) 835-3612 HARRY ROCHA
    MIAMI DADE COUNTY PUBLIC WORKS (305) 412-0891 x102 OCTAVIO VIDAL
    CROWN CASTLE NG FIBER (786)610-7073 DANNY HASKETT
    MASTEC INC (FIBER) (305)803-0346 RICKIE QUINN
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. ANY DAMAGE TO PUBLIC OR PRIVATE PROPERTY SHALL BE RESTORED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ASPHALT, CONCRETE OR PAVER DRIVEWAYS ON PRIVATE PROPERTY ABUTTING RIGHT-OF-WAY WHICH ARE DAMAGED OR IMPACTED DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AS DIRECTED BY THE ENGINEER.
18. ANY ENCROACHMENT WITHIN THE LIMITS OF CONSTRUCTION SHALL BE RELOCATED OR PROTECTED BY THE ADJACENT PROPERTY OWNER AT THEIR EXPENSE.
19. CLEARING AND GRUBBING, GRADING AND OTHER INCIDENTAL WORK NECESSARY FOR HARMONIZATION OUTSIDE R/W SHALL BE INCLUDED IN RELATED BID ITEMS.
20. ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RE-SODDED. SODDING TO BE USED AT LOCATIONS WHERE EXISTING LAWNS OR SWALES ARE DISTRUBED, AT CONTRACTORS EXPENSE AS DIRECTED BY THE ENGINEER.
21. 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 EXFILTRATION TRENCH, OR FILLING OF ANY AREA, OR FOR ANY OPERATION DURING CONSTRUCTION, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
22. 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.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE DEWATERING PERMIT. COST OF THE PERMIT AND DEWATERING SHALL BE INCLUDED IN THE THE RELATED BID ITEM FOR THE WORK BEING DONE.
24. 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.
25. 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.
26. ALL DITCH EXCAVATIONS SHALL BE PERFORMED IN FULL COMPLIANCE WITH THE PROVISIONS OF THE TRENCH SAFETY ACT.
27. 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.
28. 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.
29. 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.
30. 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.
31. 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 TEMPORARY 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.
32. 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.
33. TRAFFIC SHALL BE MAINTAINED ON DUST FREE ASPHALT SURFACE AT ALL TIMES. 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.
34. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS USED IN THIS PROJECT.
35. 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.
36. 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.
37. CAST IRON PRODUCTS: HEAVY-DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS OR 16,000 LBS WHEEL LOADS.
38. STEEL GRATING AND COVERS: TRAFFIC CLASSIFICATION H-20; 16,000 LBS OVER 8"X20" AREA.
39. EXISTING DRAINAGE STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED UNLESS OTHERWISE NOTED.
40. 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.
41. PRIOR TO CONSTRUCTION THE CONTRACTOR WILL INSPECT ALL EXISTING STRUCTURES WHICH ARE TO REMAIN AND NOTIFY THE ENGINEER OF ANY OBVIOUS STRUCTURAL DEFICIENCIES.
42. CONTRACTOR SHALL ADJUST ALL EXISTING CATCH BASINS, GRATES, AND STORM MANHOLE COVERS TO MEET NEW GRADES WHERE APPLICABLE. PAY ITEM No. 425-6
43. RADII ON CURB RETURNS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
44. PRIOR TO CONSTRUCTION THE CONTRACTOR WILL VERIFY INVERT ELEVATIONS OF ALL PIPES WHICH ARE TO REMAIN AND NOTIFY THE ENGINEER OF ANY ELEVATION DEVIATIONS.
45. 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.
46. 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.
47. 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 STANDARD DETAILS, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND THE FDOT DESIGN STANDARDS.
48. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND FLUSH WITH THE EXISTING PAVEMENT.
49. THE LOCATION OF SOME EXISTING DRIVEWAYS IS APPROXIMATE. VERIFICATION OF EXACT LOCATION AND DIMENSIONS IS RECOMMENDED.
50. EXISTING DRIVEWAYS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE REPLACED AT THE SAME LOCATION AND WIDTH, UNLESS OTHERWISE SHOWN IN PLANS.
51. 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.
52. CONTRACTOR TO INSTALL ½" PREFORMED EXPANSION JOINT WHEN PROPOSED SIDEWALK IMPROVEMENTS IS IMMEDIATELY ADJACENT TO EXISTING CONCRETE SLAB AND/OR BUILDING.
53. THE SIDEWALK AT ALL PROPOSED DRIVEWAY TURNOUTS SHALL BE 6" CONCRETE, INCLUDING 5' WIDE SIDEWALK AT RIGHT-OF-WAY AS WELL AS ENTIRE DRIVEWAY WIDTH AND FLARES.
54. ALL BUS STOP SIGNS TO BE FURNISHED AND INSTALLED BY MIAMI-DADE TRANSIT (MDT). 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. CONTRACTOR TO COORDINATE RELOCATION AND/OR REMOVAL OF BUS BENCHES, BUS SHELTERS AND BUS ROUTE SIGNS WITH MR. RICARDO AGUILAR AT 305-889-6743.
55. 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.
56. DESIGN WATER TABLE ELEVATION: 3.00
57. MIAMI-DADE COUNTY FLOOD CRITERIA ELEVATION: 6.00
58. 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.
59. ALL PAVEMENT DIMENSIONS ARE TO LIP OF GUTTER, AS APPLICABLE, UNLESS INDICATED OTHERWISE.
60. LOCAL RESIDENTS, PROPERTY OWNERS AND TENANTS WHEN THE AREA OF CONSTRUCTION SHALL BE GIVEN ACCESS TO THEIR PROPERTY DURING ALL PHASES OF CONSTRUCTION.
61. CONTRACTOR SHALL REMOVE ANY EXISTING STRIPING THAT CONFLICTS WITH THE MAINTENANCE OF TRAFFIC DURING CONSTRUCTION AND PROVIDE ADEQUATE TEMPORARY SIGNING AND/OR STRIPING USING REFLECTORIZED PAINT.
62. PAVED ASPHALT TEMPORARY PAVEMENT AND CONNECTIONS SHALL BE PROVIDED THROUGHOUT PROJECT, AS NEEDED AND DIRECTED BY THE ENGINEER TO MAINTAIN TRAFFIC AND ACCESS.
63. CONTRACTOR SHALL PRESERVE ALL STREET SIGNS, BENCHES, TRAFFIC CONTROL SIGNS, ETC. AS DIRECTED BY THE ENGINEER. WHEN DIRECTED BY THE ENGINEER, CONTRACTOR SHALL REINSTALL OR DELIVER SAID PUBLIC PROPERTY TO THE TOWN OF CUTLER BAY AND/OR MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT.
64. CONTRACTOR SHALL COORDINATE WITH THE IRRIGATION AND ELECTRICAL SUB-CONTRACTORS FOR THE INSTALLATION OF ANY NECESSARY SLEEVES UNDER THE PAVEMENT.
65. CONTRACTOR SHALL REPLACE EXISTING WATER METER BOXES AND ADJUST EXISTING WATER METERS AS NEEDED, CONTRACTOR SHALL ADJUST OR REPLACE EXISTING ELECTRICAL AND SIGNAL PULL BOXES AS NEEDED. ASSOCIATED COSTS TO BE INCLUDED IN SIDEWALK BID ITEM.
66. ALL EXISTING FIRE HYDRANTS SHALL REMAIN UNDISTURBED UNLESS OTHERWISE NOTED.
67. CONTRACTOR SHALL CAREFULLY SAW-CUT ANY ROOTS IN CONFLICT WITH CONSTRUCTION OF CURB, SIDEWALK, DRAINAGE OR UTILITIES. ROOTS TORN BY BACKHOE WILL NOT BE ALLOWED.
68. CONTRACTOR SHALL MAINTAIN TRENCHING TO THE MINIMUM REQUIRED TO DO WORK TO AVOID DAMAGE TO TREES.
69. RESIDENTS, PROPERTY OWNERS AND TENANTS ALONG PROJECT ROUTE SHALL RECEIVE MINIMUM SEVEN (7) DAY ADVANCE WRITTEN NOTIFICATION BY CONTRACTOR OF WORK TO BE PERFORMED IN FRONT OF THEIR PROPERTY.
70. ALL SIDEWALK CLOSURES SHALL BE PROVIDED BY THE CONTRACTOR WITH PROPER PEDESTRIAN DIRECTIONAL DETOUR SIGNAGE, OR AS DIRECTED BY THE ENGINEER.
71. CONTRACTOR SHALL RELOCATE ALL EXISTING MAILBOXES IN CONFLICT WITH PROPOSED CONSTRUCTION AS PER MIAMI-DADE COUNTY PUBLIC WORKS AND WASTE MANAGEMENT ROADWAY STANDARDS AND CONSTRUCTION STANDARD DETAILS.
72. CONTRACTOR SHALL CONFORM TO ALL LATEST STANDARDS OF F.D.O.T. AND MIAMI-DADE COUNTY PUBLIC WORKS AND WASTE MANAGEMENT ROADWAY STANDARDS AND CONSTRUCTION STANDARD DETAILS.
73. NOTHING, INCLUDING UTILITIES, FURNISHINGS AND LANDSCAPING CAN PROTRUDE INTO THE PEDESTRIAN CLEAR PATH ZONE, FROM 27" TO 80" HIGH, AND FOR NOT MORE THAN 4' IN WIDTH.

LEGEND

- PROP. COLORED CONCRETE CROSSWALK
- PROP. CONCRETE SIDEWALK
- PROP. CONCRETE PAVERS
- PROP. ROADWAY WIDENING
- PROP. ASPHALT DRIVEWAY
- (2) PROP. NO. OF SIDEWALK FLAGS TO BE REPLACED
- PROP. LIGHT POLE
- PROP. TYPE "F" CURB AND GUTTER
- PROP. TYPE "D" CURB
- PROP. TYPE "RA" CURB AND GUTTER
- EXIST. E.O.P.
- EXIST. SIDEWALK
- EXIST. LOT LINE
- EXIST. R/W LINE
- CL OF CONSTRUCTION
- Ex. 2" Gas — EXIST. GAS LINE
- EXIST. POWER POLE
- EXIST. MAILBOX
- EXIST. LIGHT POLE
- EXIST. BUS BENCH

REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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Coral Gables, Florida 33134
www.stantec.com

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DESIGNED BY	CMH	04/13/2021	DRAWN BY	RM	04/13/2021
CHECKED BY	CMH		CHECKED BY	CMH	
SUPERVISED BY:					

MIAMI-DADE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

GENERAL NOTES & LEGEND

PLOTTED BY: MORALES; ROD DATE: 2/16/2023 4:34 PM
CREATED: 2022-10-05 - V:\2156\ACTIVE\20519502\CIVIL\DESIGN\DRAWINGS\CIVIL PLANS\20502 GENERAL NOTES.DWG

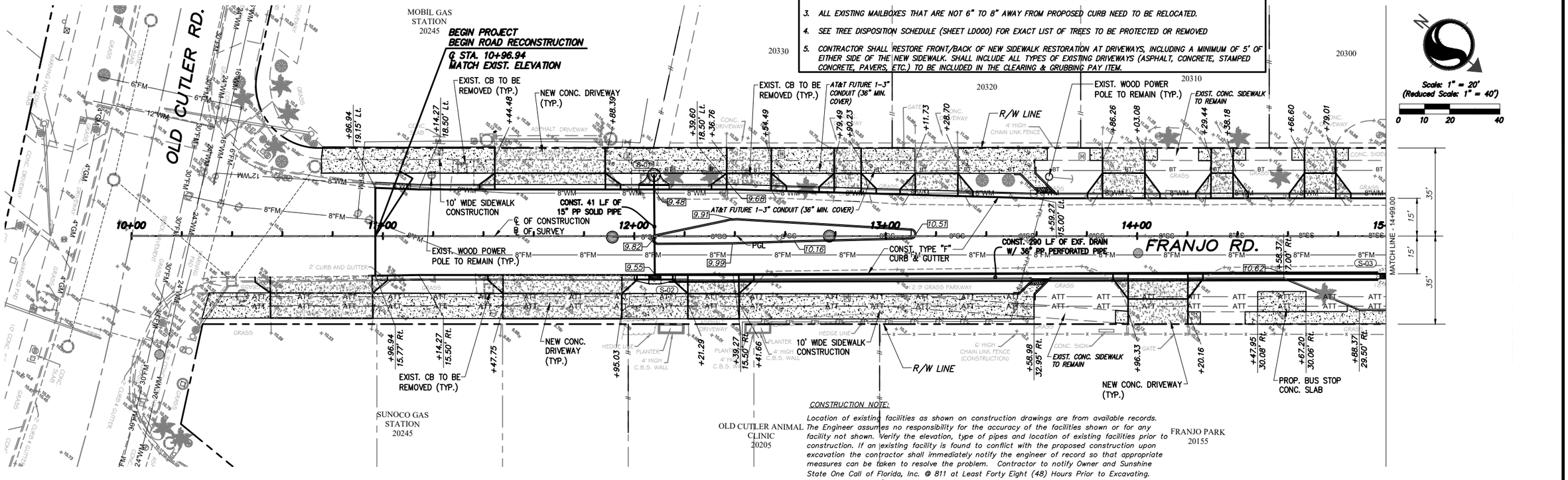
MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 20190519 SHEET C-06 OF 82

LEGEND

SIDEWALK RECONSTRUCTION

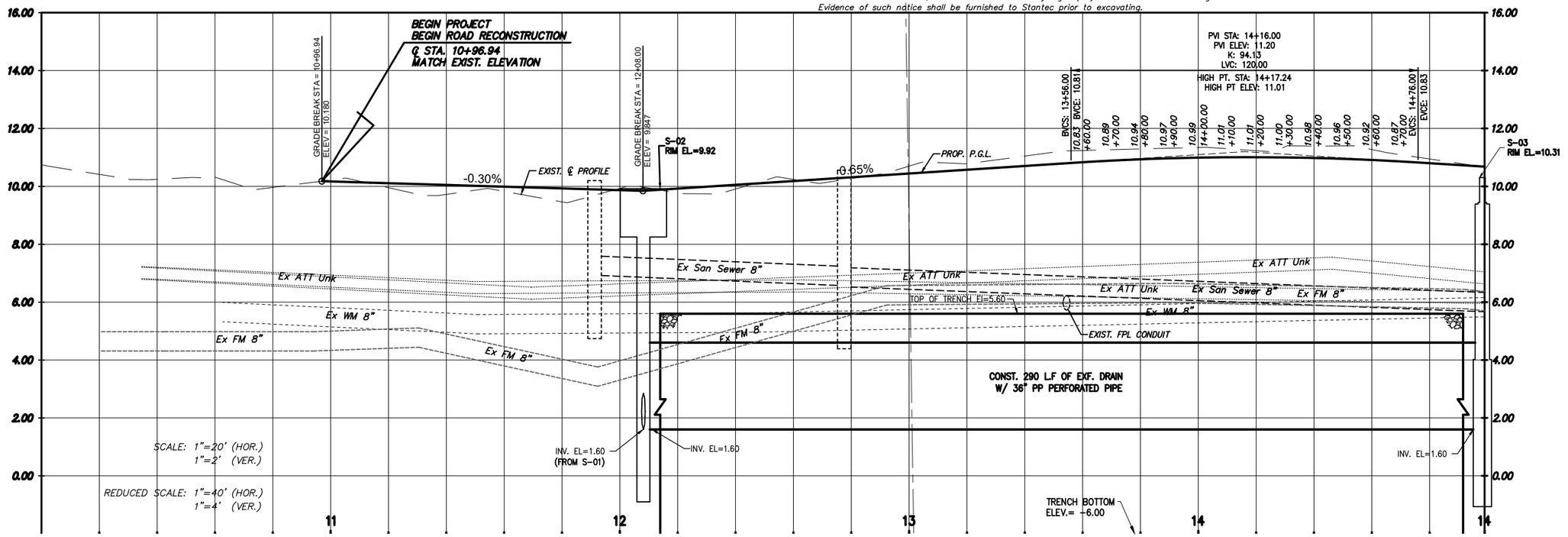
NOTES:

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.



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 construction. 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 at Least Forty Eight (48) Hours Prior to Excavating. Evidence of such ndtice shall be furnished to Stantec prior to excavating.



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SUPERVISED BY:

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

PLAN & PROFILE

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CREATED: 2023-02-15 - V:\2156\ACTIVE\215615952\CIVIL\DESIGN\DRAWINGS\CIVIL PLANS\15952_FRANJO_PLAN & PROFILE 01.DWG

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 20190519 SHEET C-07 OF 82

NOTES:

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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.
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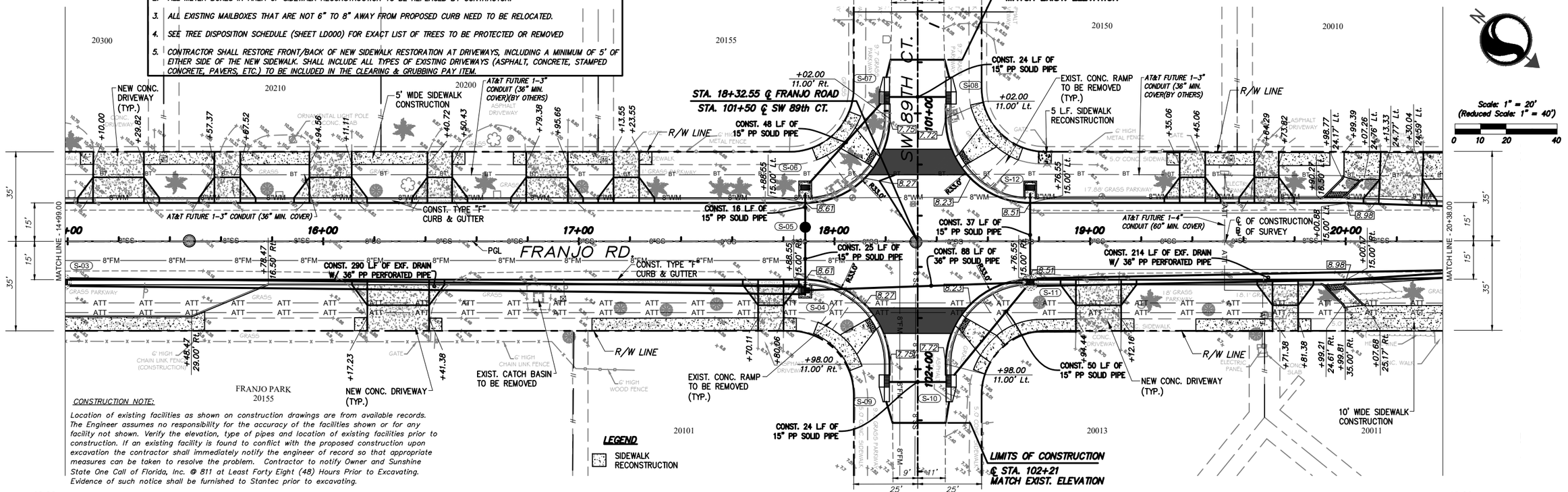

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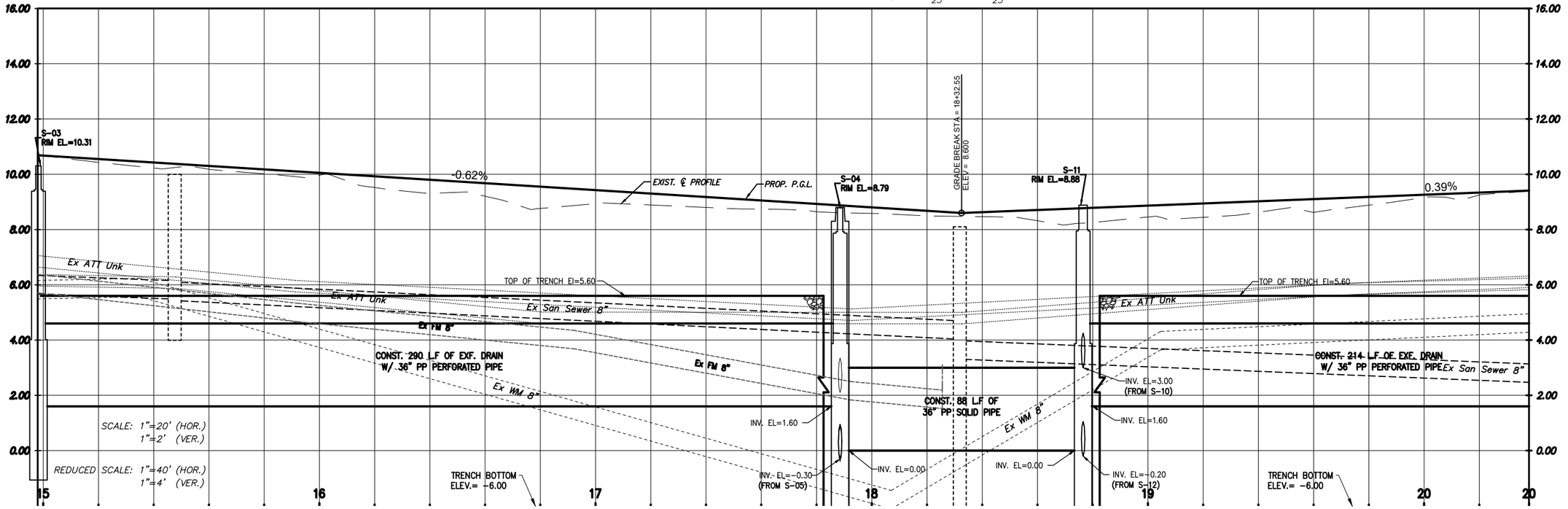
LEGEND

SIDEWALK RECONSTRUCTION



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DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

PLAN & PROFILE

PLOTTED BY: MORALES, ROD DATE: 3/29/2023 12:45 PM
CREATED: 2023-02-15 - V:\215K\ACTIVE\215615952\CIVIL\DESIGN\DRAWING\CIVIL PLANS\15952_FRANJO_PLAN & PROFILE 01.DWG

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

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.

Scale: 1" = 20'
(Reduced Scale: 1" = 40')
0 10 20 40

℄ Roundabout STA. 22+11.81
Offset= 9.65 Lft.

SW 200TH ST.

FRANJO RD.

SW 199TH ST.

R/W LINE

AT&T FUTURE 1-3" CONDUIT (36" MIN. COVER)

CONST. 171 L.F OF 36" PP SOLID PIPE

CONST. 72 L.F OF 15" PP SOLID PIPE

EXIST. CB TO BE REMOVED (TYP.)

CONST. 111 L.F OF EXF. DRAIN 36" PP PERFORATED PIPE

10' WIDE SIDEWALK CONSTRUCTION

CONST. 102 L.F OF EXF. DRAIN W/ 36" PP PERFORATED PIPE

NEW CONC. DRIVEWAY (TYP.)

CONST. TYPE "F" CURB & GUTTER

CONST. 34 L.F OF 15" PP SOLID PIPE

CONST. 214 L.F OF EXF. DRAIN 36" PP PERFORATED PIPE

CONST. TYPE "D" CURB

℄ OF CONSTRUCTION
℄ OF SURVEY

CONST. 32 L.F OF 15" PP SOLID PIPE

PGL

CONST. 69 L.F OF 15" PP SOLID PIPE

CONST. 64 L.F OF 15" PP SOLID PIPE 20011

CONST. 43 L.F OF 15" PP SOLID PIPE

STA. 21+97.55 ℄ FRANJO ROAD
STA. 112+50 ℄ SW 200 ST.

STA. 24+57.46 ℄ FRANJO ROAD
STA. 120+00 ℄ SW 199th ST.

10' WIDE SIDEWALK CONSTRUCTION

NEW CONC. DRIVEWAY (TYP.)

CONST. 28 L.F OF 15" PP SOLID PIPE

FOR ROUNDABOUT GEOMETRY SEE SHEET C-23

LIMITS OF CONSTRUCTION
℄ STA. 120+70.21
MATCH EXIST. ELEVATION

LEGEND
SIDEWALK RECONSTRUCTION

MATCH LINE - 20+38.00

MATCH LINE - 25+77.00

GRADE BREAK STA = 21+79.97 ELEV = 9.967
GRADE BREAK STA = 21+96.97 ELEV = 10.287
GRADE BREAK STA = 22+32.64 ELEV = 10.287
GRADE BREAK STA = 22+49.48 ELEV = 9.967
GRADE BREAK STA = 23+72.00 ELEV = 9.629
GRADE BREAK STA = 24+57.46 ELEV = 10.053

S-13 RIM EL.=9.39
S-14 RIM EL.=8.77
S-17 RIM EL.=9.44
S-20 RIM EL.=9.69
S-22 RIM EL.=10.06

EXIST. ℄ PROFILE
PROP. P.G.L.

1.90% 0.00% -1.90% -0.28% 0.50% -0.40%

Ex Gas 2"
Ex ATT Unk
Ex WM 8"
EXIST. FPL
Ex San Sewer 8"

TOP OF TRENCH El=5.60

INV. EL=1.60
INV. EL=0.10 (FROM S-15)
INV. EL=0.00 (FROM S-14)
INV. EL=-2.20
INV. EL=1.60 (FROM S-18)
INV. EL=3.20 (FROM S-21)
INV. EL=3.00 (FROM S-23)

CONST. 171 L.F OF 36" PP SOLID PIPE

CONST. 111 L.F OF EXF. DRAIN W/ 36" PP PERFORATED PIPE

CONST. 102 L.F OF EXF. DRAIN W/ 36" PP PERFORATED PIPE

CONST. 271 L.F OF EXF. DRAIN W/ 36" PP PERFORATED PIPE

TRENCH BOTTOM ELEV.= -6.00

SCALE: 1"=20' (HOR.)
1"=2' (VER.)
REDUCED SCALE: 1"=40' (HOR.)
1"=4' (VER.)

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

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

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

SUPERVISED BY:

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

PLAN & PROFILE

PLOTTED BY: MORALES, ROD DATE: 2/12/2024 11:08 AM
CREATED: 2024-02-12 - V:\2154\ACTIVE\215615952\CIVIL\DESIGN\DRAWING\CIVIL PLANS\15952_FRNADO_PLAN & PROFILE 01.DWG

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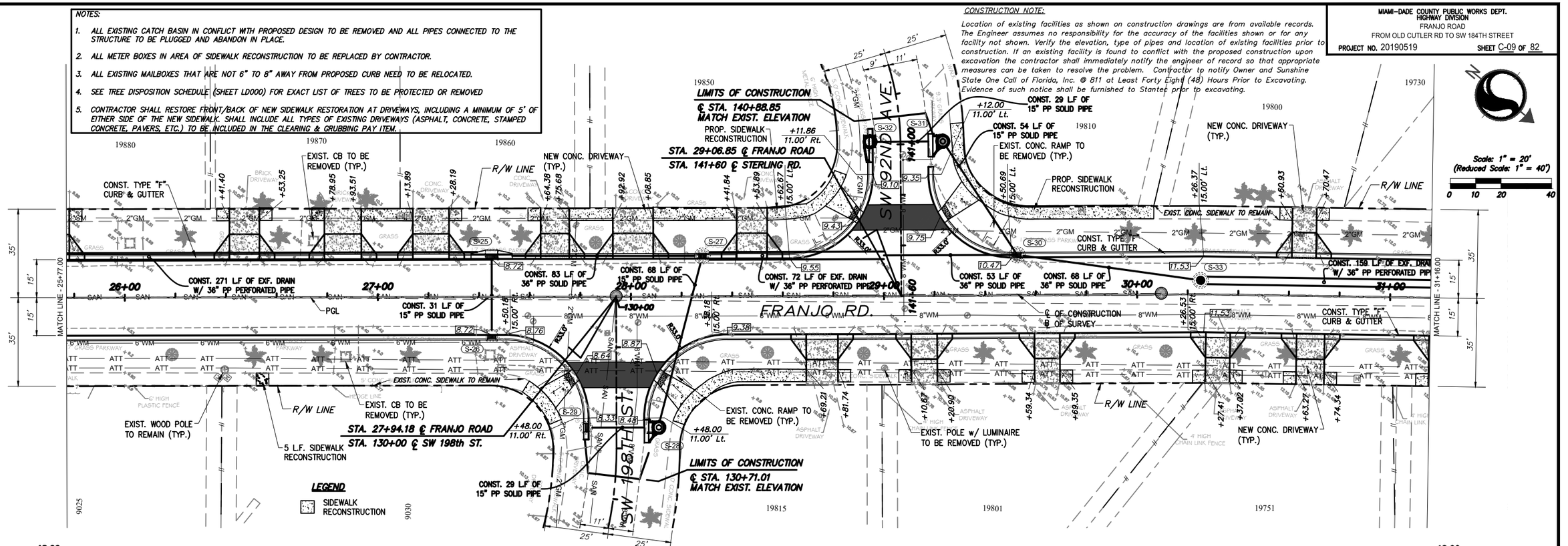
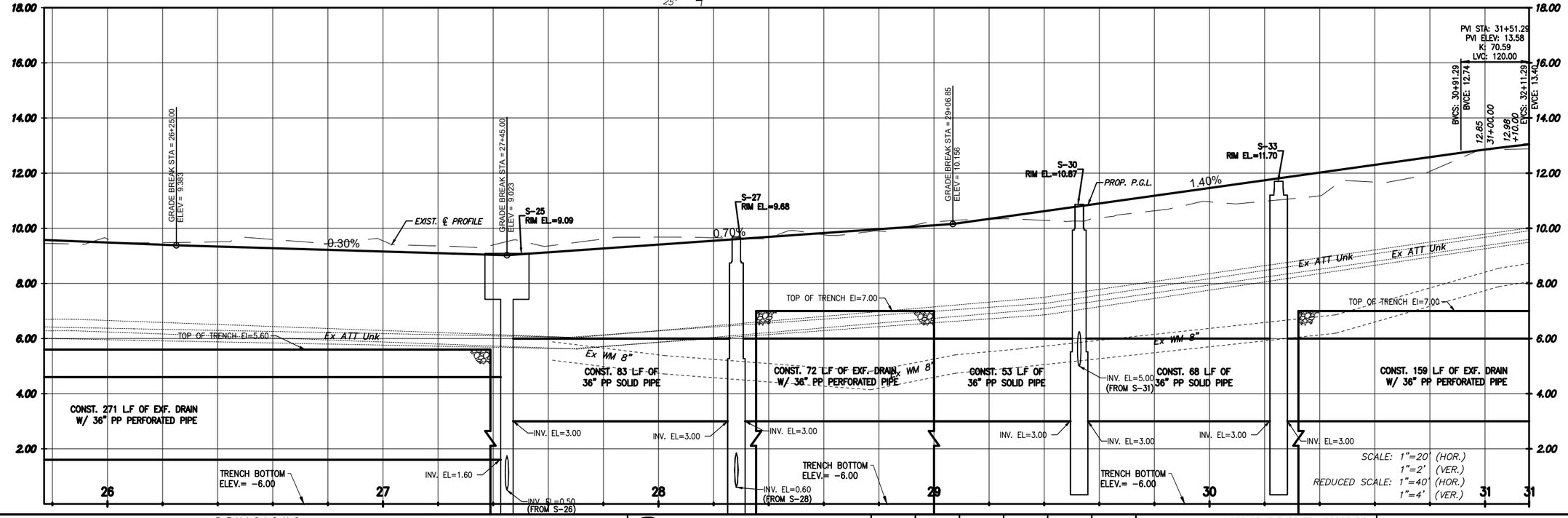
MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 20190519 SHEET C-09 OF 82





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SUPERVISED BY:					

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

PLAN & PROFILE

PLOTTED BY: MORALES, ROD DATE: 3/20/2023 12:47 PM
CREATED: 2023-02-15 - V:\(2154)ACTIVE\(2156)1952\CIVIL\DESIGN\DRAWING\CIVIL PLANS\1952_FRNAJO_PLAN & PROFILE 01.DWG

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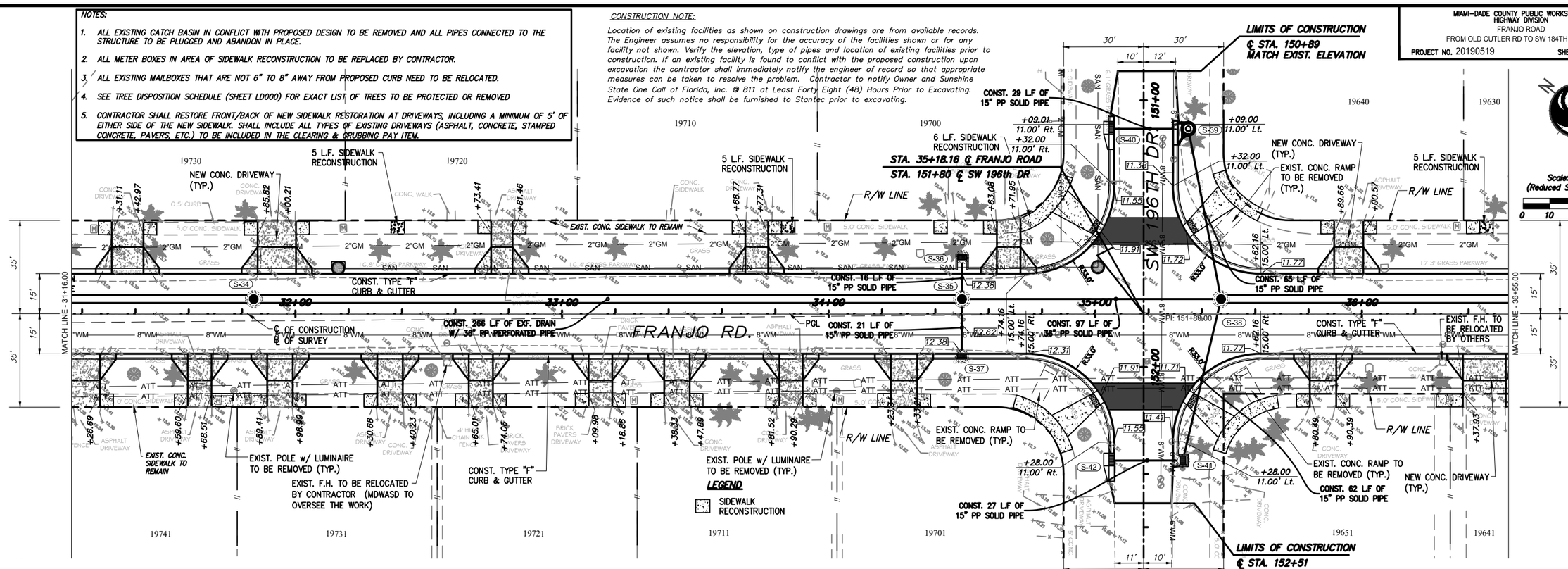

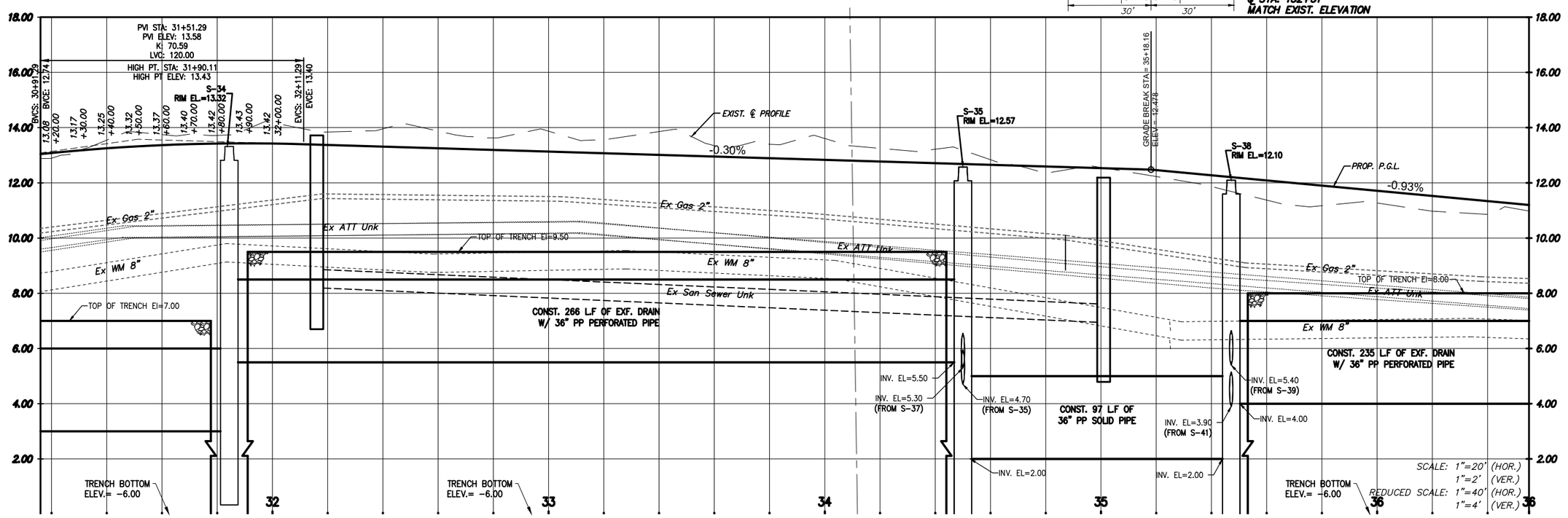

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SUPERVISED BY:					

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

PLAN & PROFILE

PLOTTED BY: MORALES, ROD DATE: 3/20/2023 12:48 PM
CREATED: 2023-02-15 - W:\2156\ACTIVE\215619952\CIVIL\DESIGN\DRAWING\CIVIL PLANS\19952_FRANJO_PLAN & PROFILE 01.DWG

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 20190519 SHEET C-11 OF 82

CONSTRUCTION NOTE:

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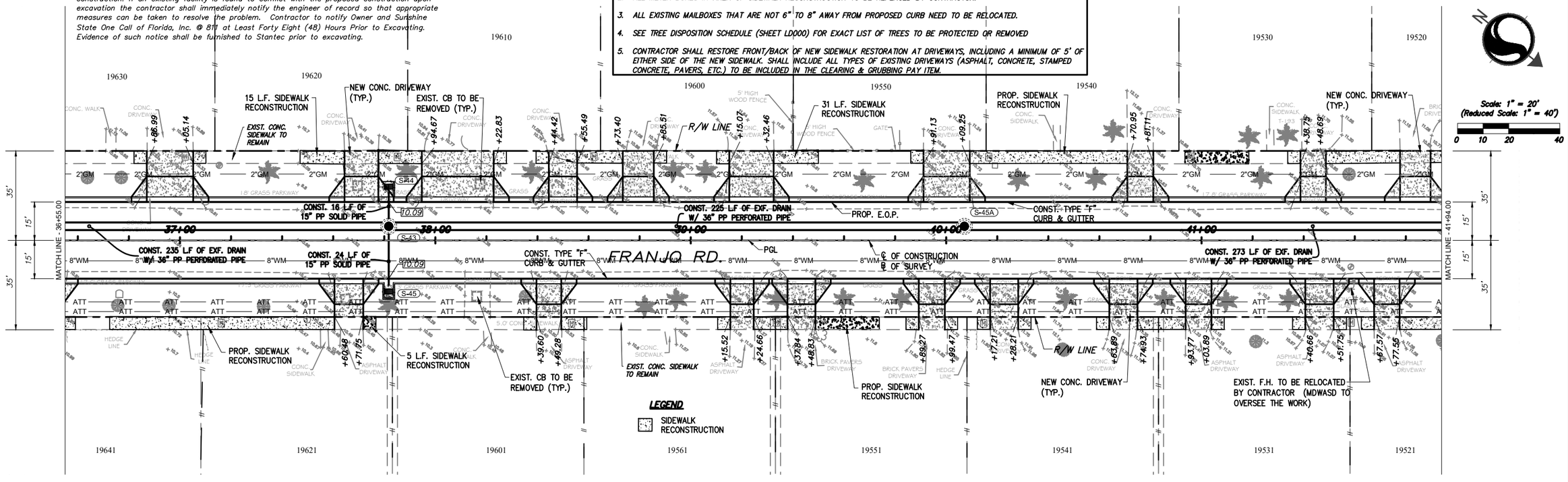

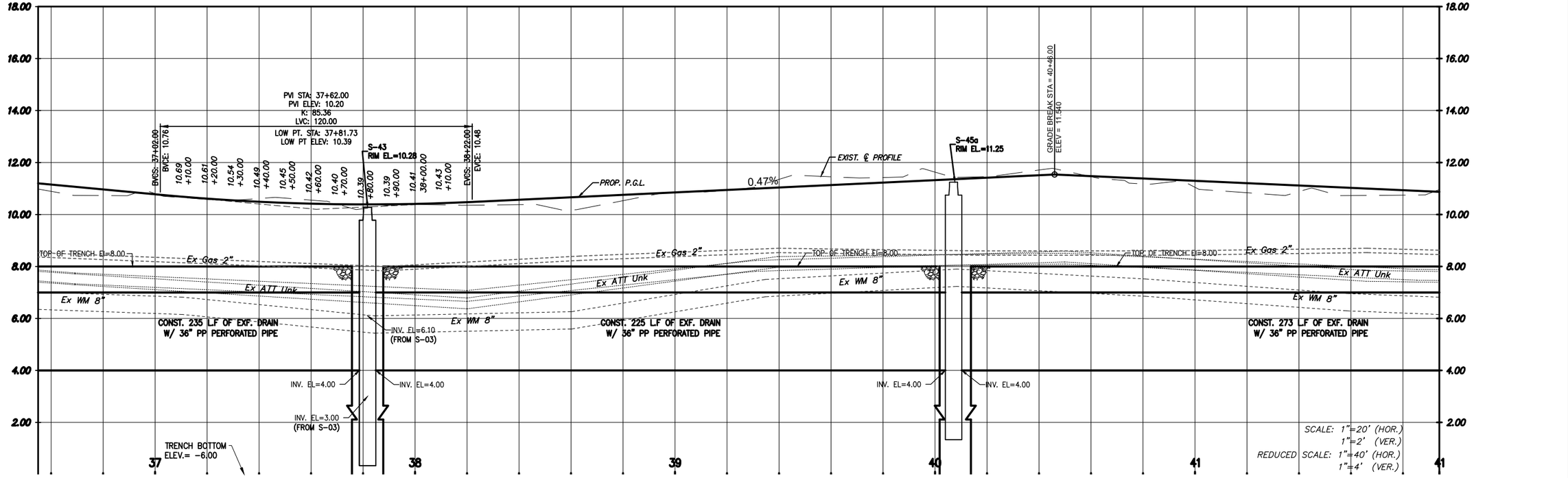

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SUPERVISED BY:					

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

PLAN & PROFILE

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MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 20190519 SHEET C-12 OF 82

NOTES:

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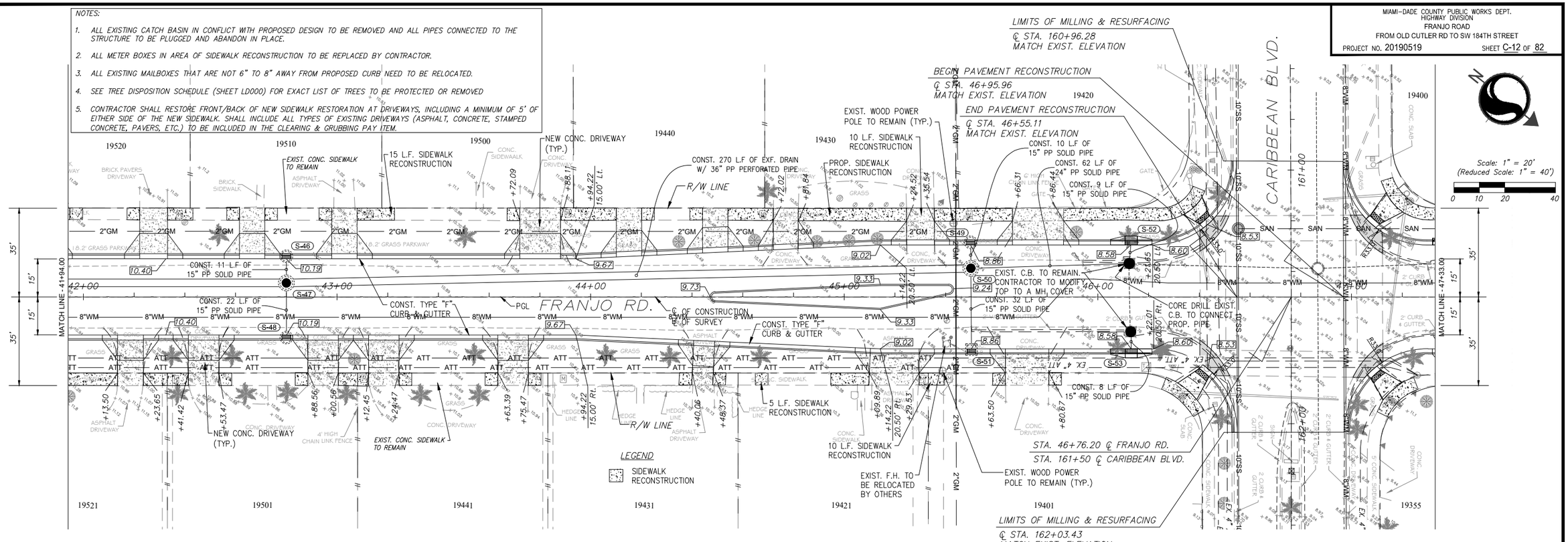

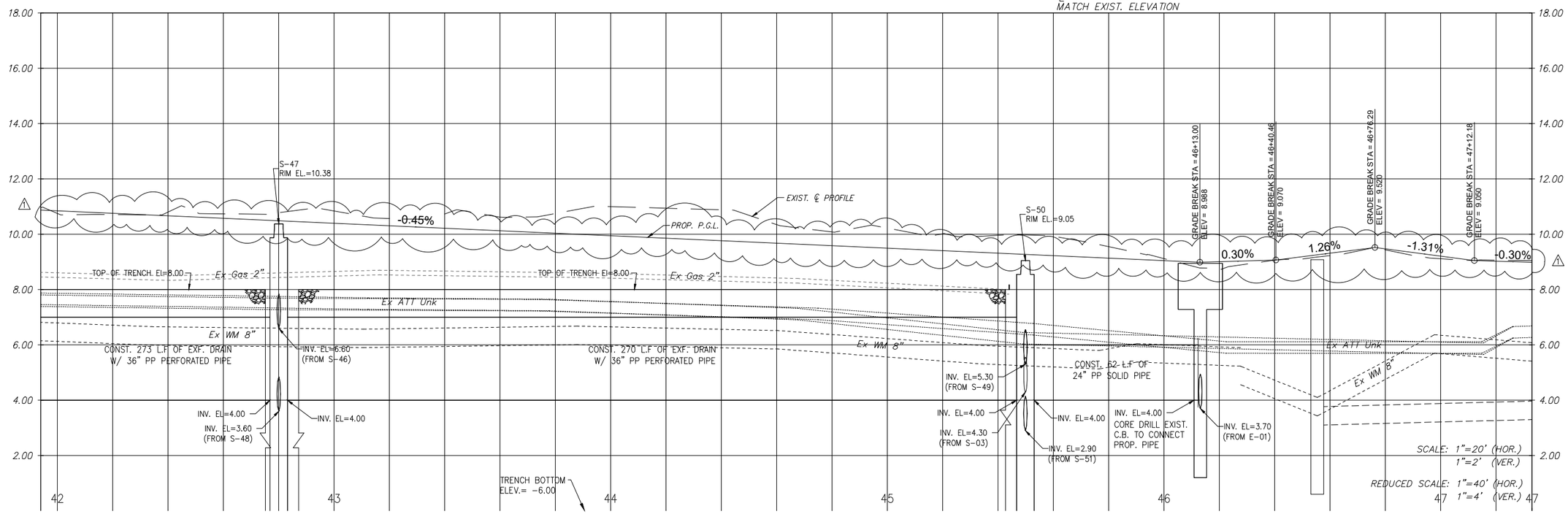

REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
2/9/2024	1	ADDENDUM #1						

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SUPERVISED BY:

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST.
MIAMI, FLORIDA 33128

PLAN & PROFILE

PLOTTED BY: MORALES, ROD DATE: 2/12/2024 11:34 AM
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MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 20190519 SHEET C-13 OF 82

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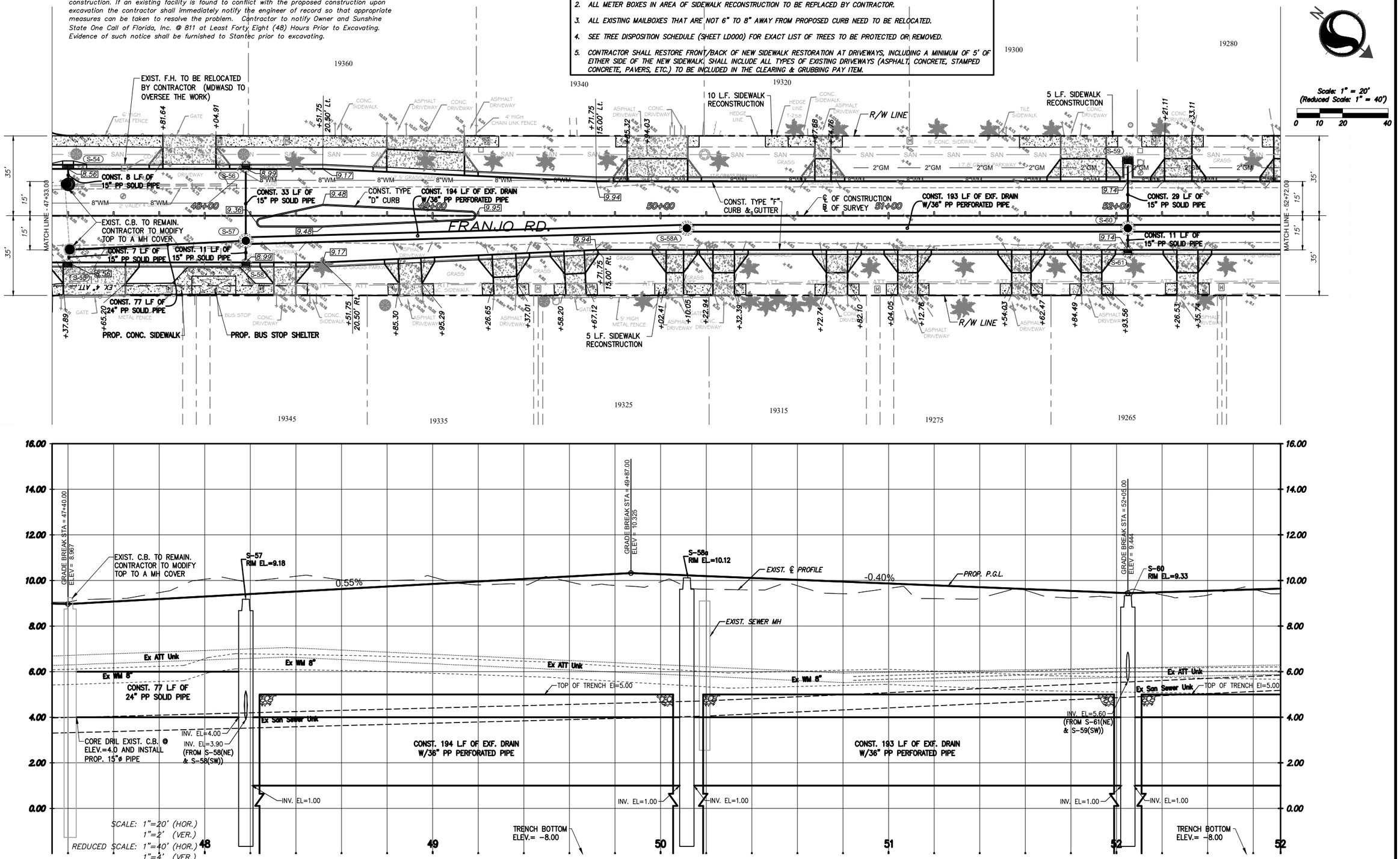

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MIAMI, FLORIDA 33128

PLAN & PROFILE

PLOTTED BY: MORALES, ROD DATE: 7/20/2023 12:50 PM
CREATED: 2023-03-20 - V:\216\ACTIVE\216159521\CIVIL\DESIGN\DRAWING\CIVIL PLANS\159521_FRNAJO_PLAN & PROFILE 02.DWG

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 20190519 SHEET C-14 OF 82

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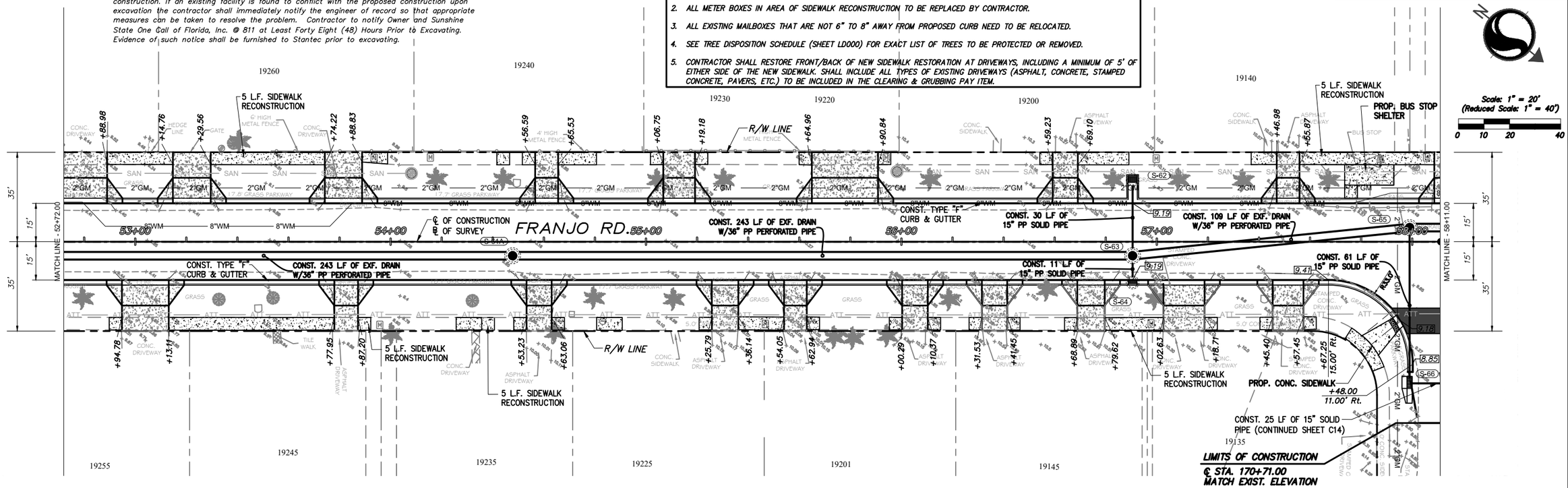

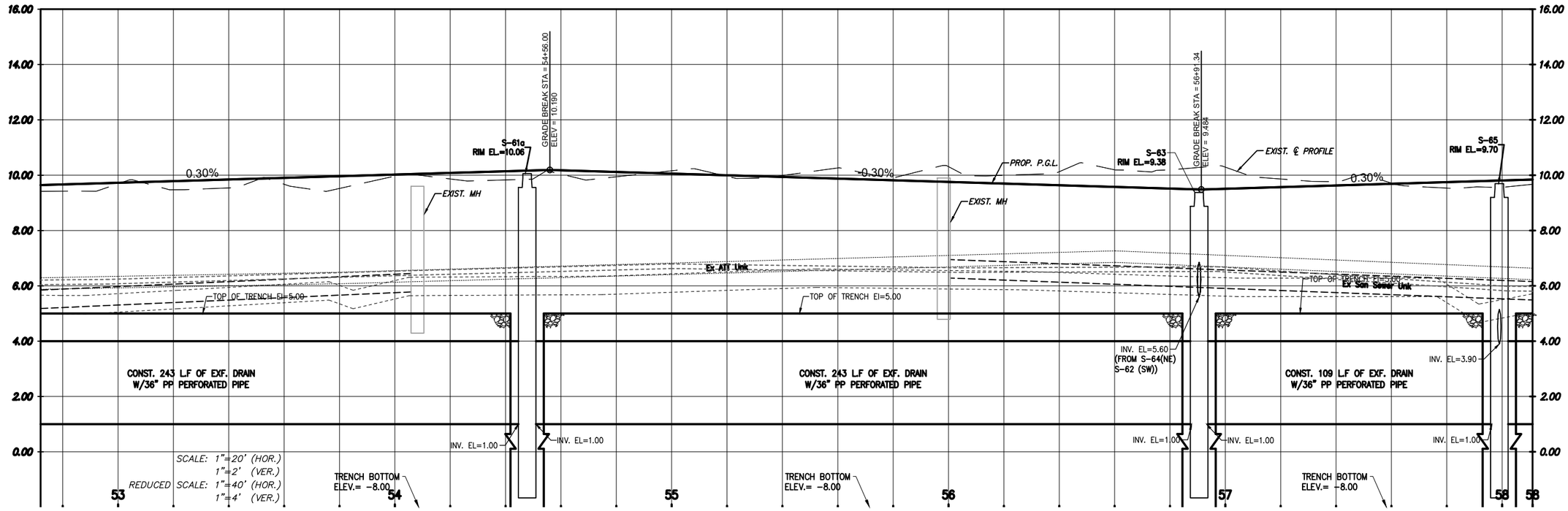

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HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

PLAN & PROFILE

PLOTTED BY: MORALES, RDD DATE: 7/20/2023 12:51 PM
CREATED: 2023-03-20 - V:\1756\ACTIVE\215615902\CIVIL\DESIGN\DRAWINGS\CIVIL PLANS\15952_FRANJO_PLAN & PROFILE 02.DWG

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 20191519 SHEET C-15 OF 82

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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.
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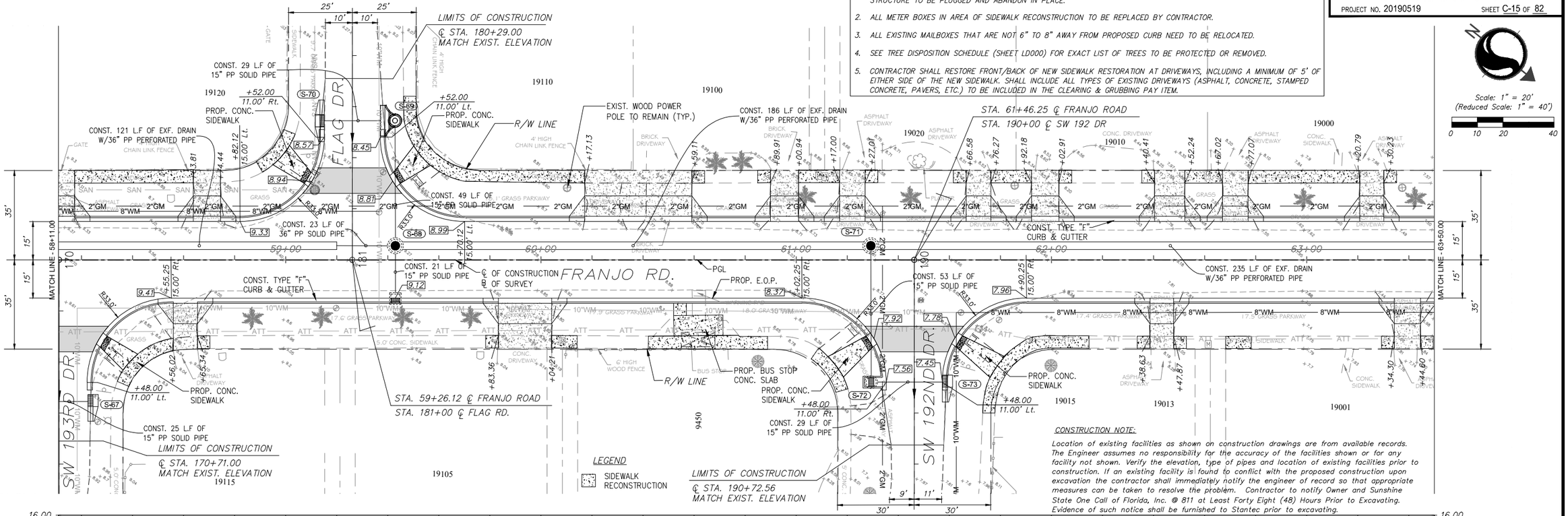
Scale: 1" = 20'
(Reduced Scale: 1" = 40')
0 10 20 40



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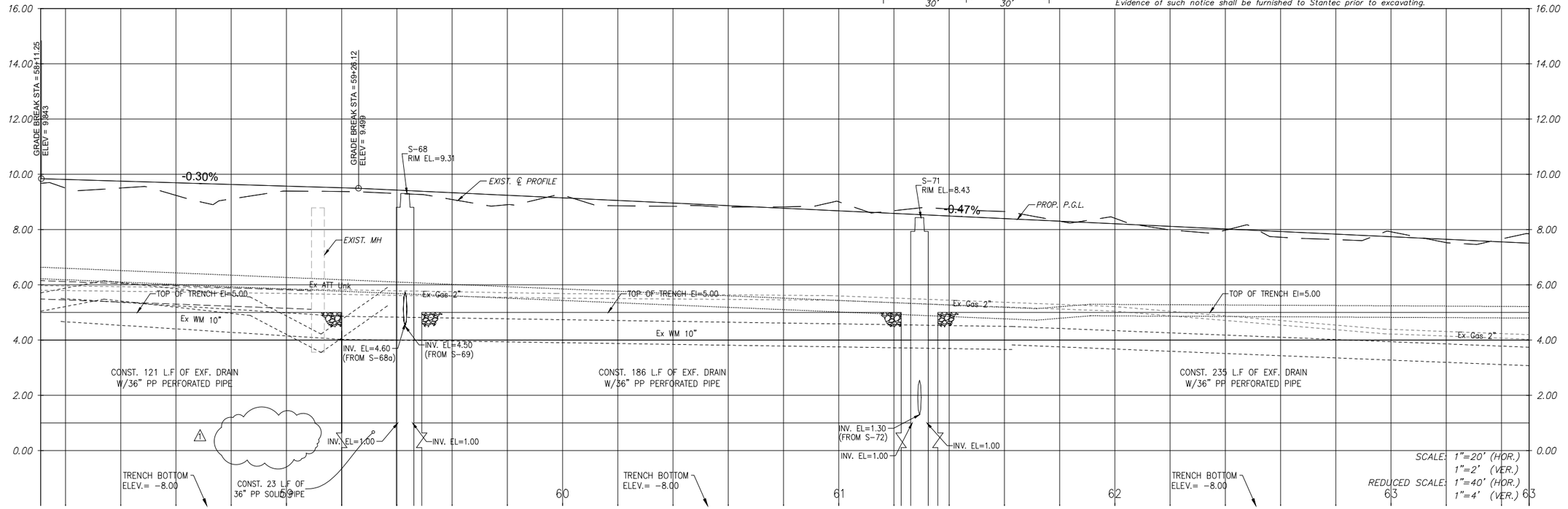

SCALE: 1"=20' (HOR.)
1"=2' (VER.)
REDUCED SCALE: 1"=40' (HOR.)
1"=4' (VER.)

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

Stantec
901 Ponce de Leon Blvd. Suite 900
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	NAME	DATE		NAME	DATE
DESIGNED BY	CMH	04-2021	DRAWN BY	RM	04-2021
CHECKED BY	CMH		CHECKED BY	CMH	

SUPERVISED BY:

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

PLAN & PROFILE

PLOTTED BY: MORALES, ROD DATE: 2/12/2024 11:37 AM
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MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 20190519 SHEET C-16 OF 82

NOTES:

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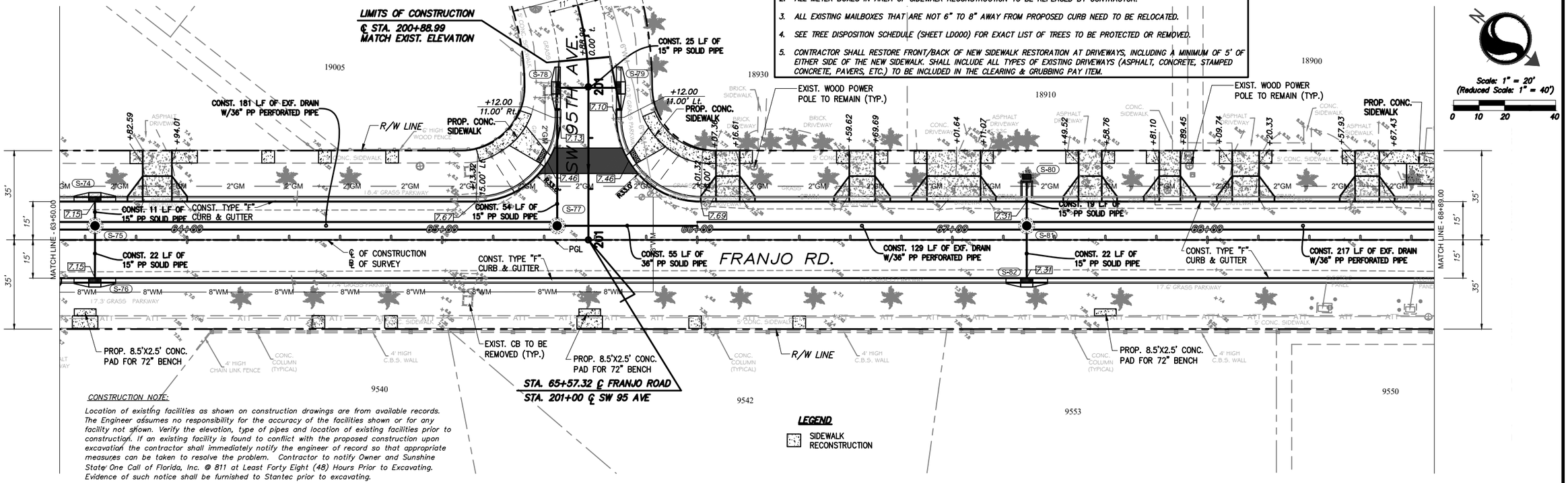

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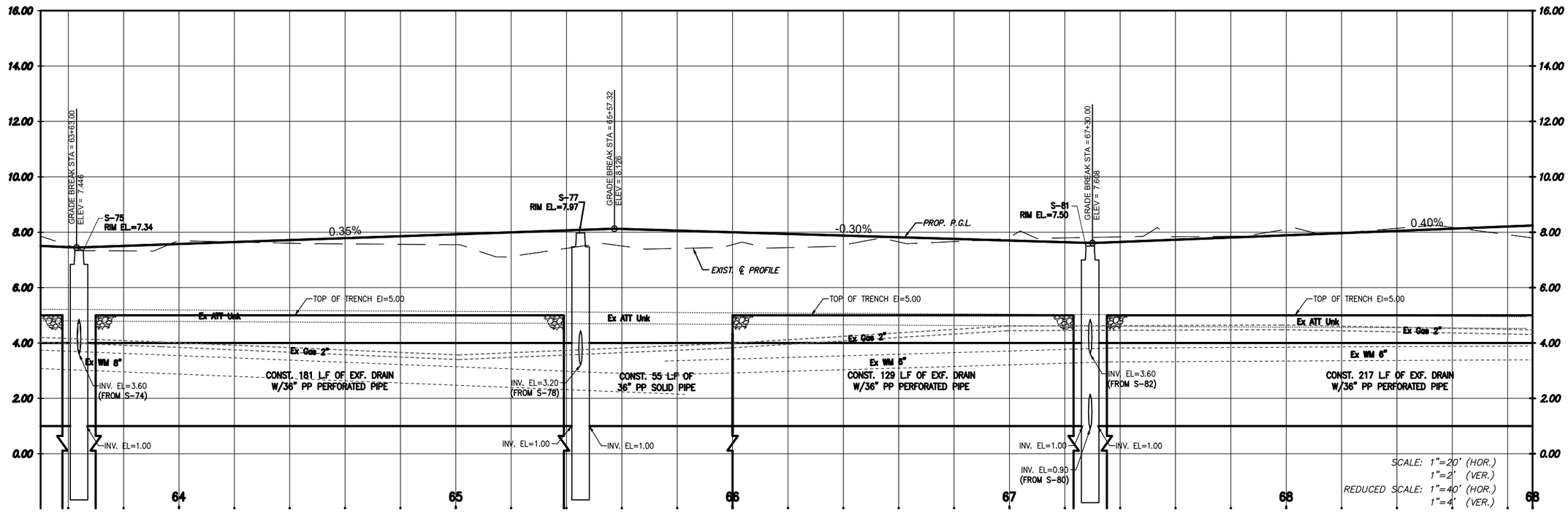
LEGEND

SIDEWALK RECONSTRUCTION

Scale: 1" = 20'
(Reduced Scale: 1" = 40')
0 10 20 40



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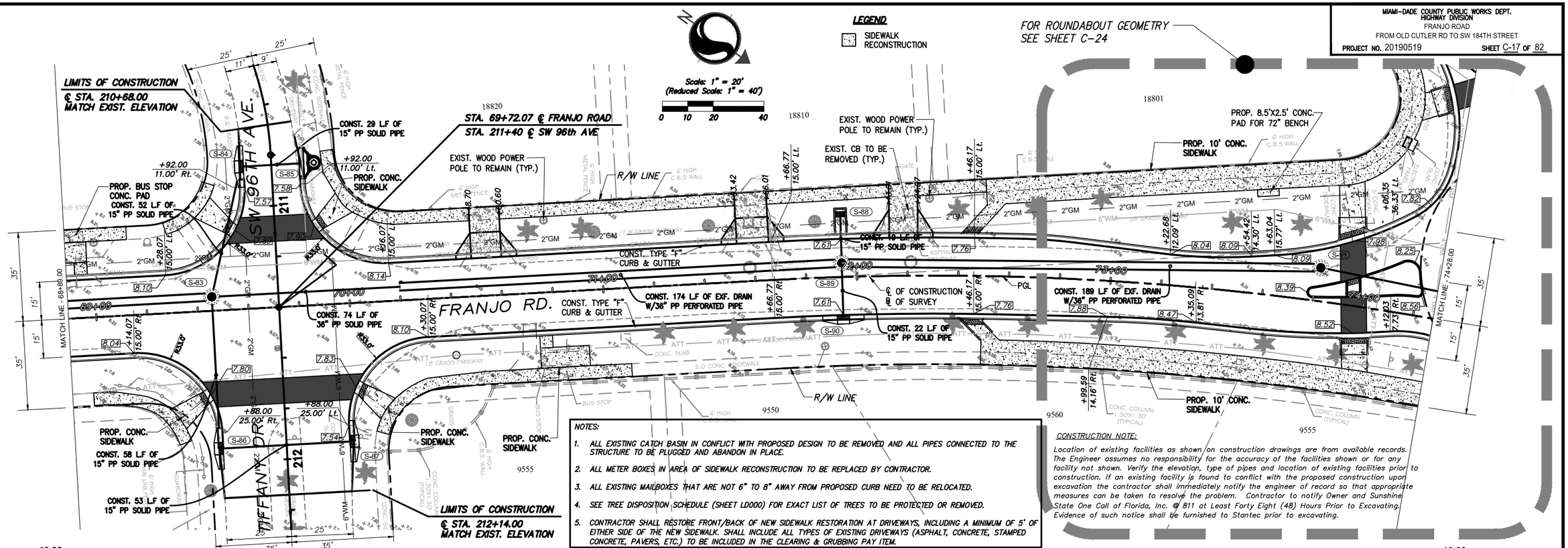
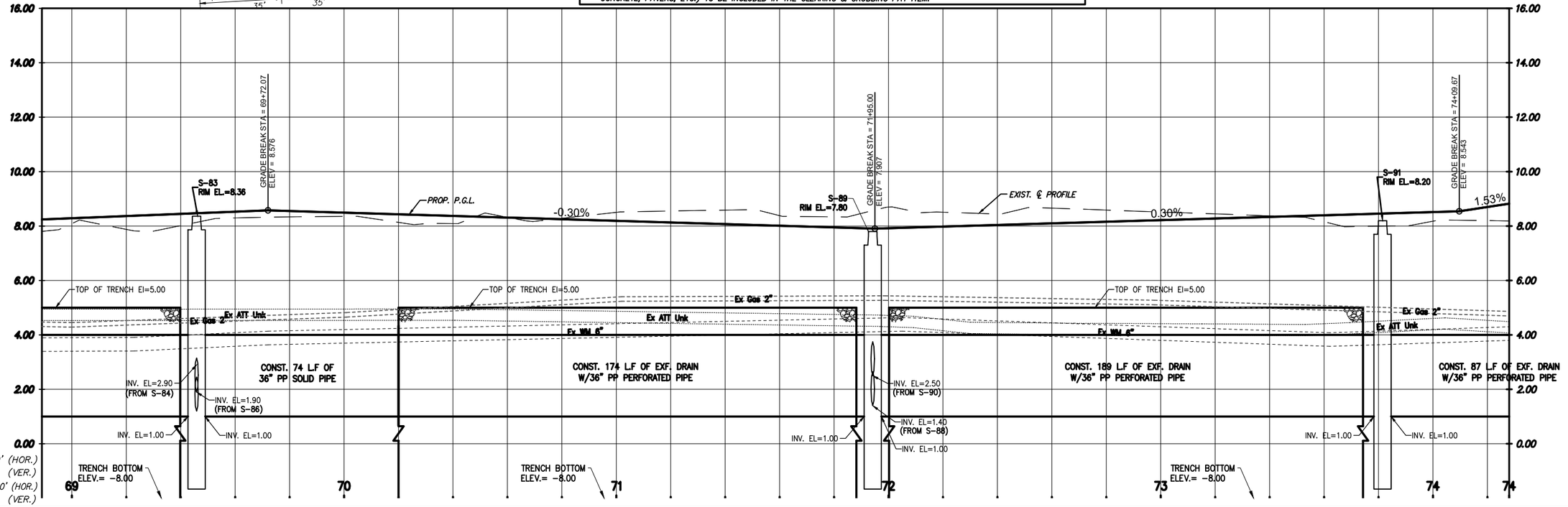
PLAN & PROFILE

PLOTTED BY: MORALES, ROD DATE: 7/20/2023 12:53 PM
CREATED: 2023-03-20 - V:\216K\ACTIVE\216K19052\CIVIL\DESIGN\DRAWING\CIVIL PLANS\19052_FRANJO_PLAN & PROFILE 02.DWG





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SUPERVISED BY:					

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MIAMI, FLORIDA 33128

PLAN & PROFILE

PLOTTED BY: MORALES, ROD DATE: 3/20/2023 12:54 PM
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MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 20190519 SHEET C-18 OF 82

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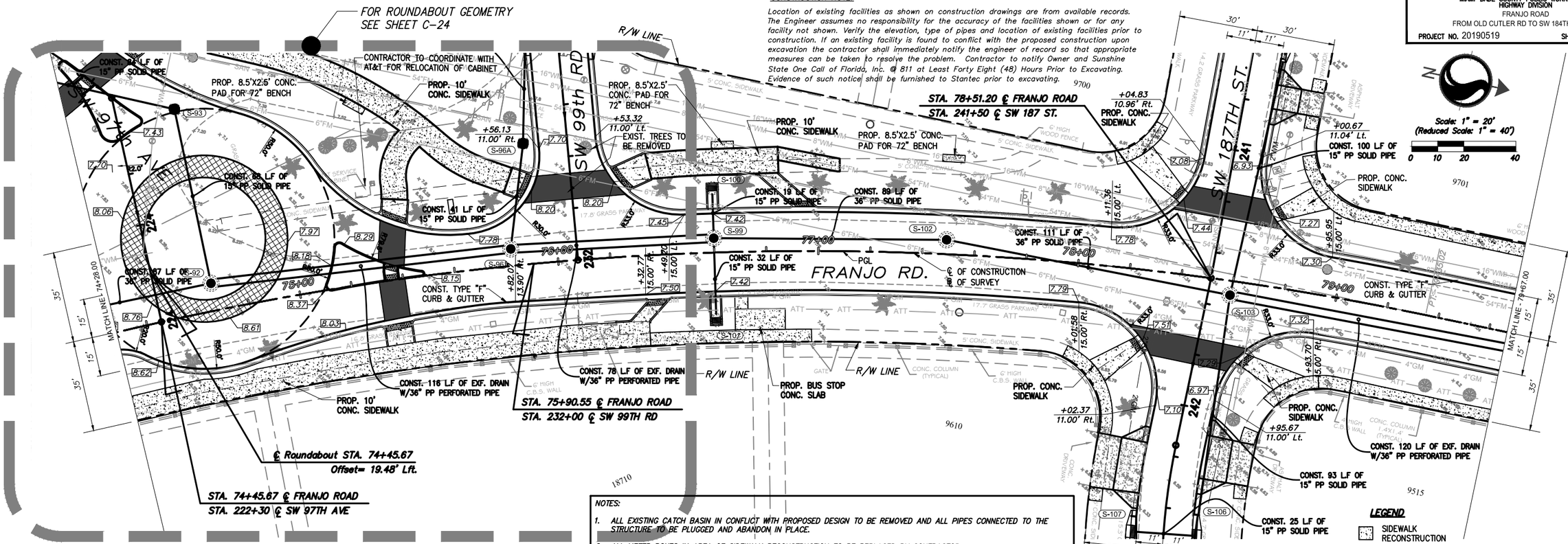

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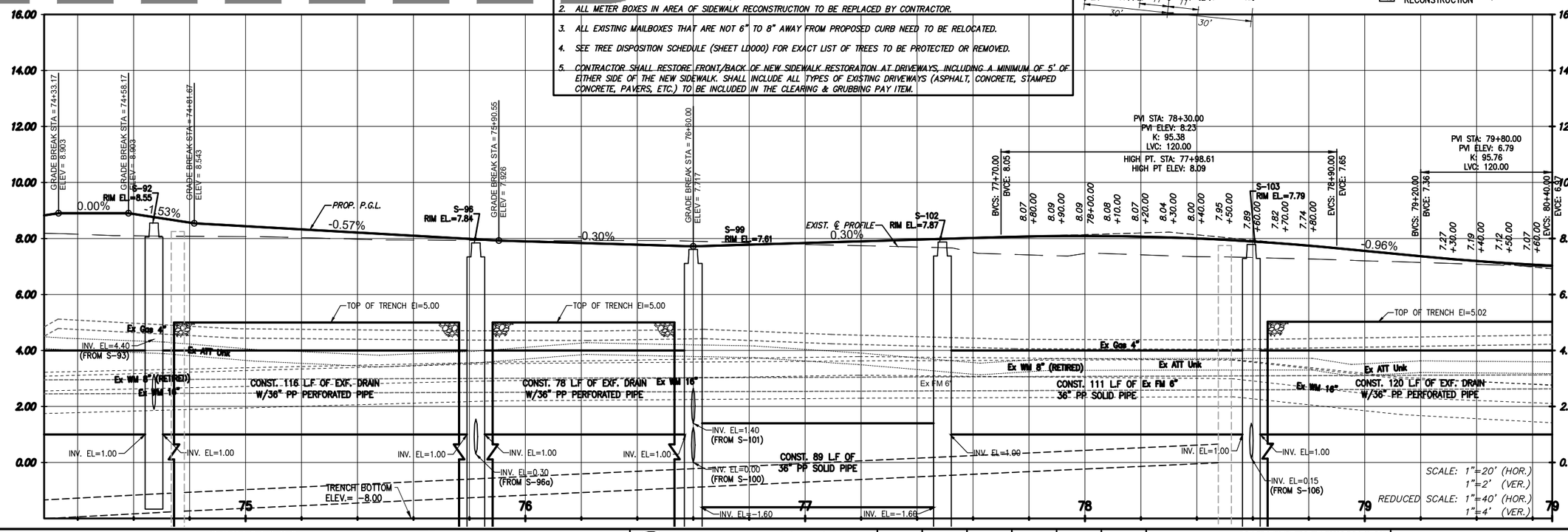
LEGEND

SIDEWALK RECONSTRUCTION



SCALE: 1"=20' (HOR.)
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REVISIONS								
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CHECKED BY	CMH		CHECKED BY	CMH	

SUPERVISED BY:

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HIGHWAY DIVISION
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111 NW 1 ST
MIAMI, FLORIDA 33128

PLAN & PROFILE

PLOTTED BY: MORALES, ROSI DATE: 3/30/2023 12:55 PM
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MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 20190519 SHEET C-19 OF 82

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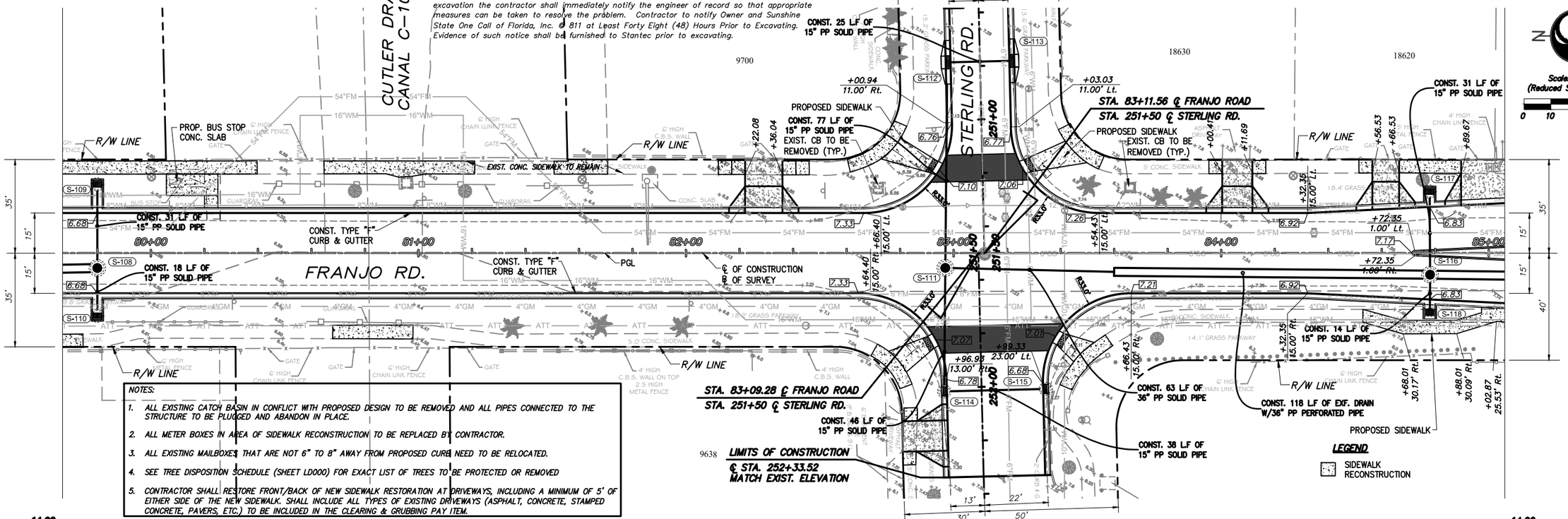

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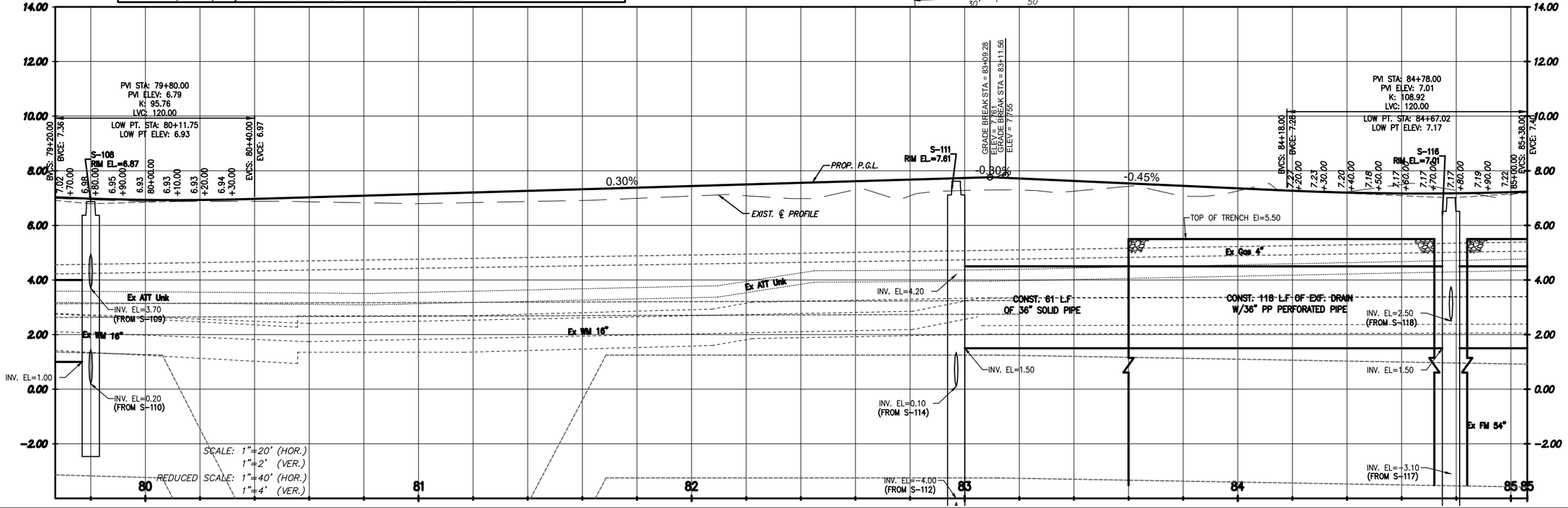

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DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

PLAN & PROFILE

PLOTTED BY: MORALES, ROD DATE: 7/20/2023 12:56 PM
CREATED: 2022-09-29 - V:\216\ACTIVE\216519502\CIVIL\DESIGN\DRAWING\CIVIL PLANS\159502_FRANJO_PLAN & PROFILE 03.DWG

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 20190519 SHEET C-20 OF 82

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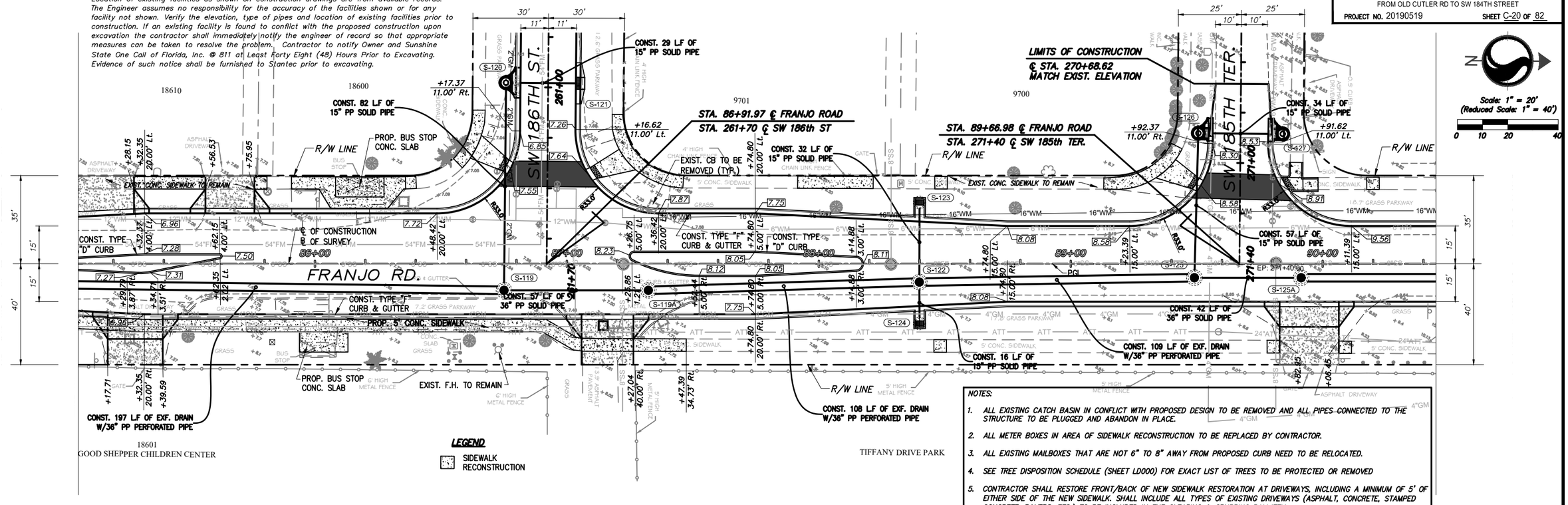

LEGEND

SIDEWALK RECONSTRUCTION

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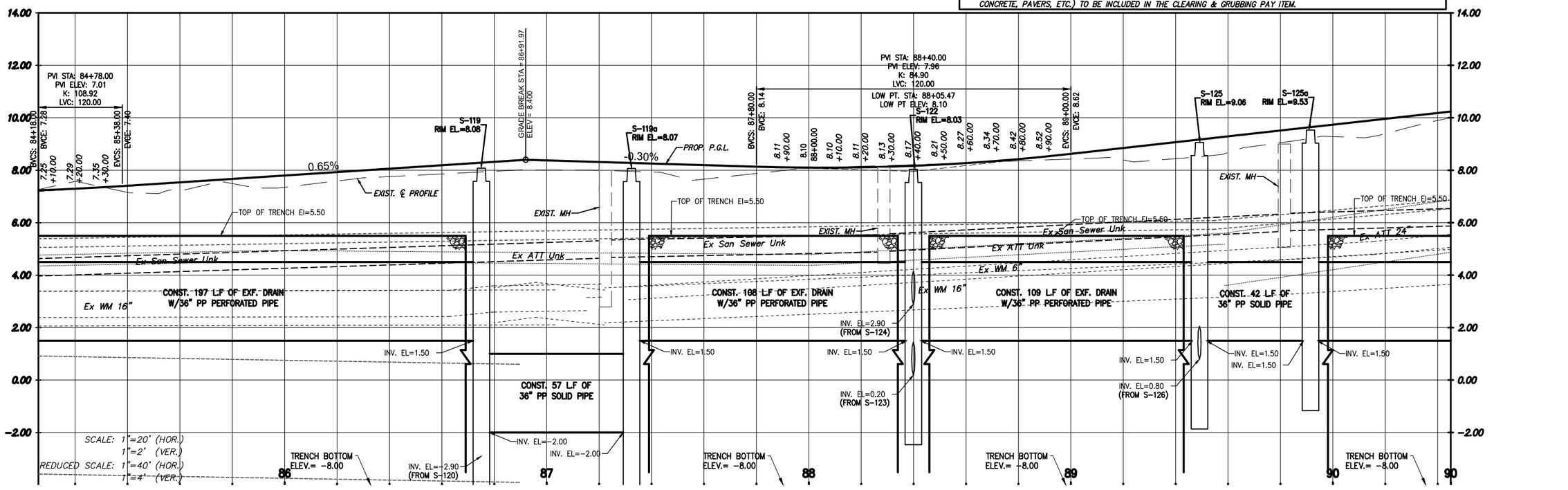

REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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STEPHEN P. CLARK CENTER
111 NW 1 ST
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PLAN & PROFILE

PLOTTED BY: MORALES, RDD DATE: 3/20/2023 12:56 PM
CREATED: 2022-09-29 - W:\2156\ACTIVE\215619952\CIVIL\DESIGN\DRAWING\CIVIL PLANS\19952_FRANJO_PLAN & PROFILE 03.DWG

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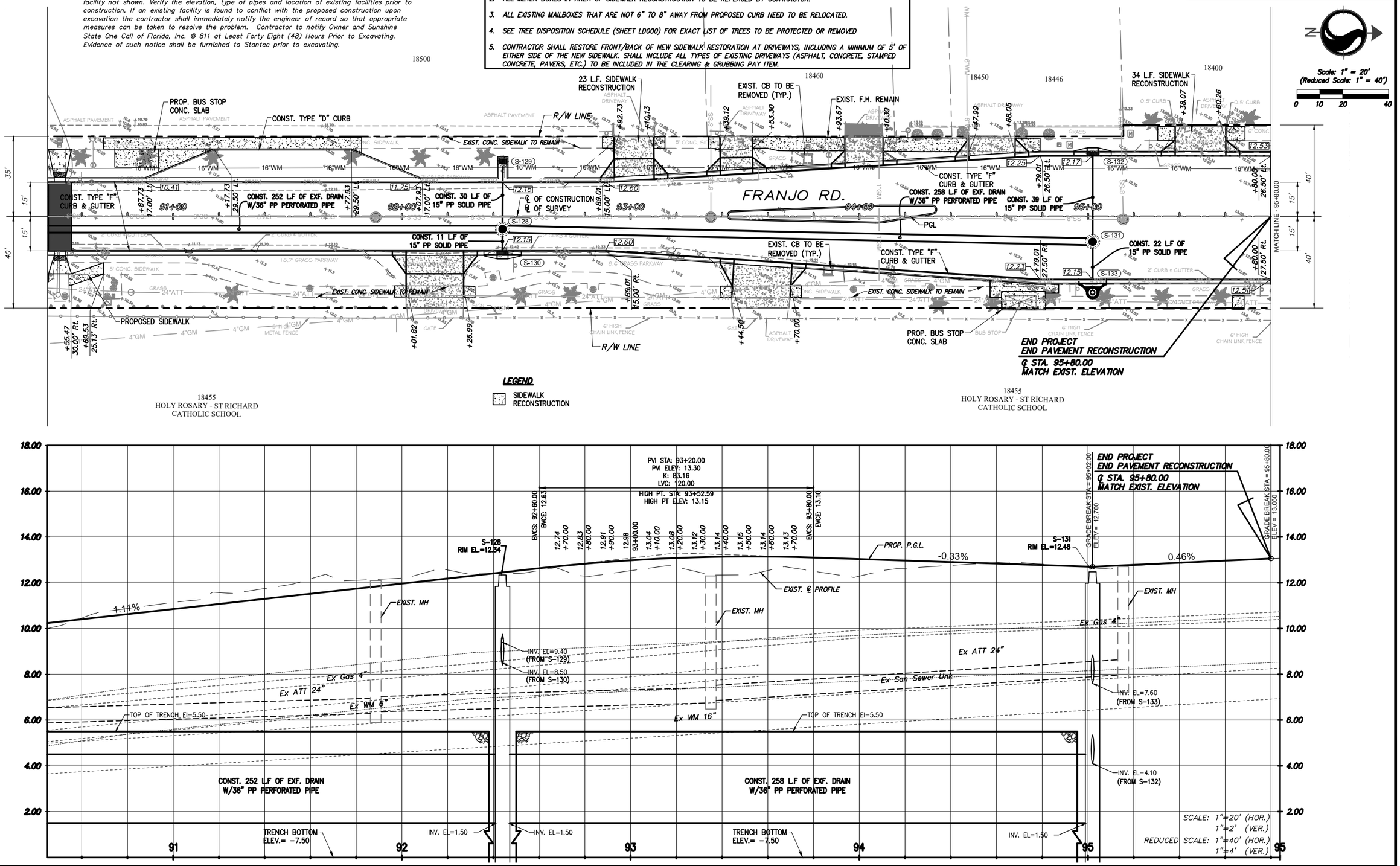

Scale: 1" = 20'
(Reduced Scale: 1" = 40')
0 10 20 40

LEGEND

SIDEWALK RECONSTRUCTION

REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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SUPERVISED BY:					

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
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PLAN & PROFILE

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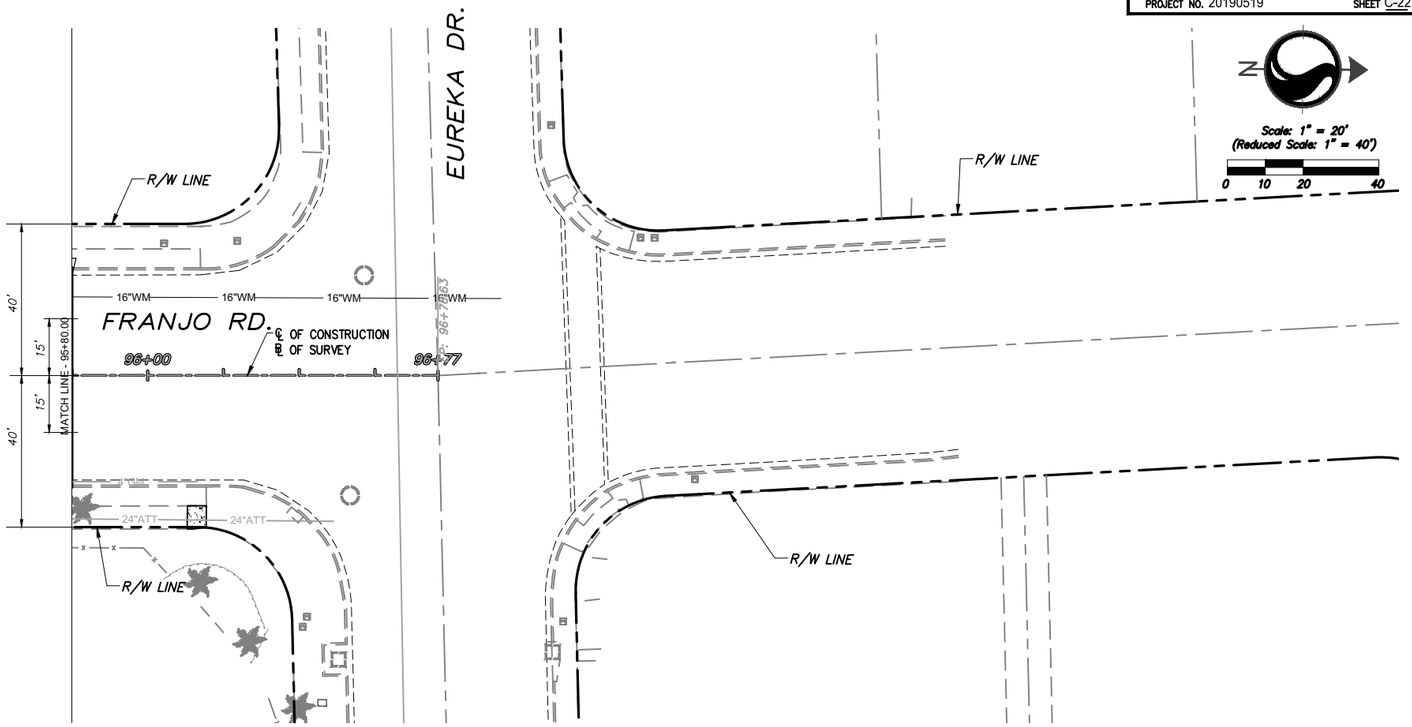
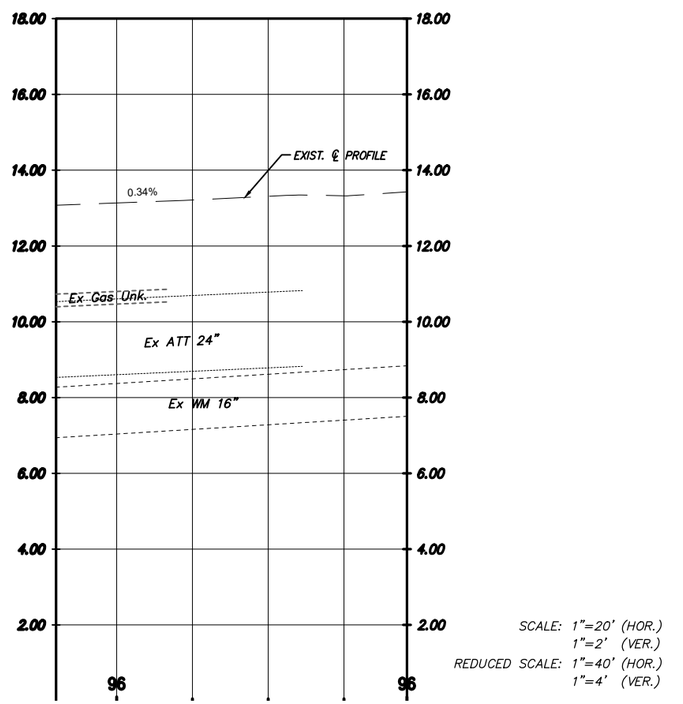
CREATED: 2022-09-29 - V:\216\ACTIVE\216519502\CIVIL\DESIGN\DRAWING\CIVIL PLANS\19502_FRANJO_PLAN & PROFILE 03.DWG





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PLAN & PROFILE

PLOTTED BY: MORALES, RDD DATE: 7/20/2023 12:58 PM
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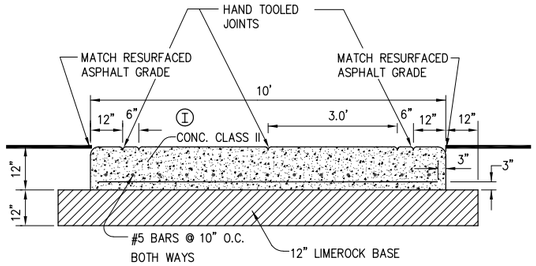
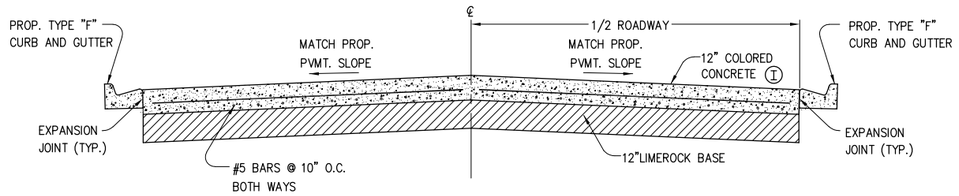


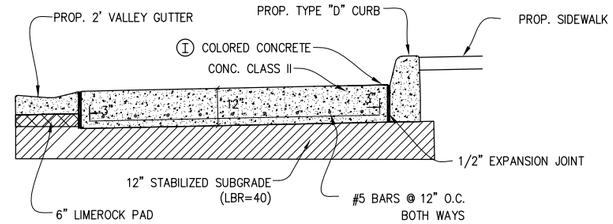
NOTE: PROVIDE BUTT CONSTRUCTION JOINTS AT ALL DISCONTINUANCES OF WORK AS PER F.D.O.T. STANDARDS INDEX NO. 305.



N.T.S.

Ⓘ INTEGRALLY-COLORED CONCRETE LAMBERT - CORAL GABLES BEIGE

Ⓘ PAVER MODULE- FOREST HILL COBBLE, ADOBE COLOR, 4"x 8"x 3-1/8"



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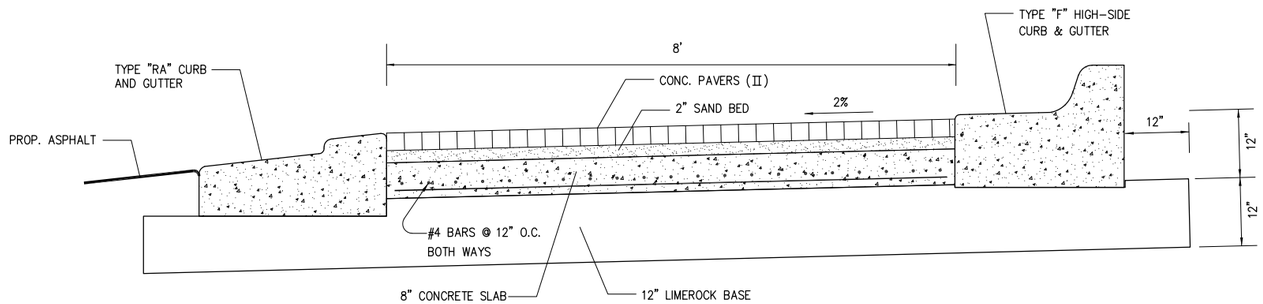

N.T.S.

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

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

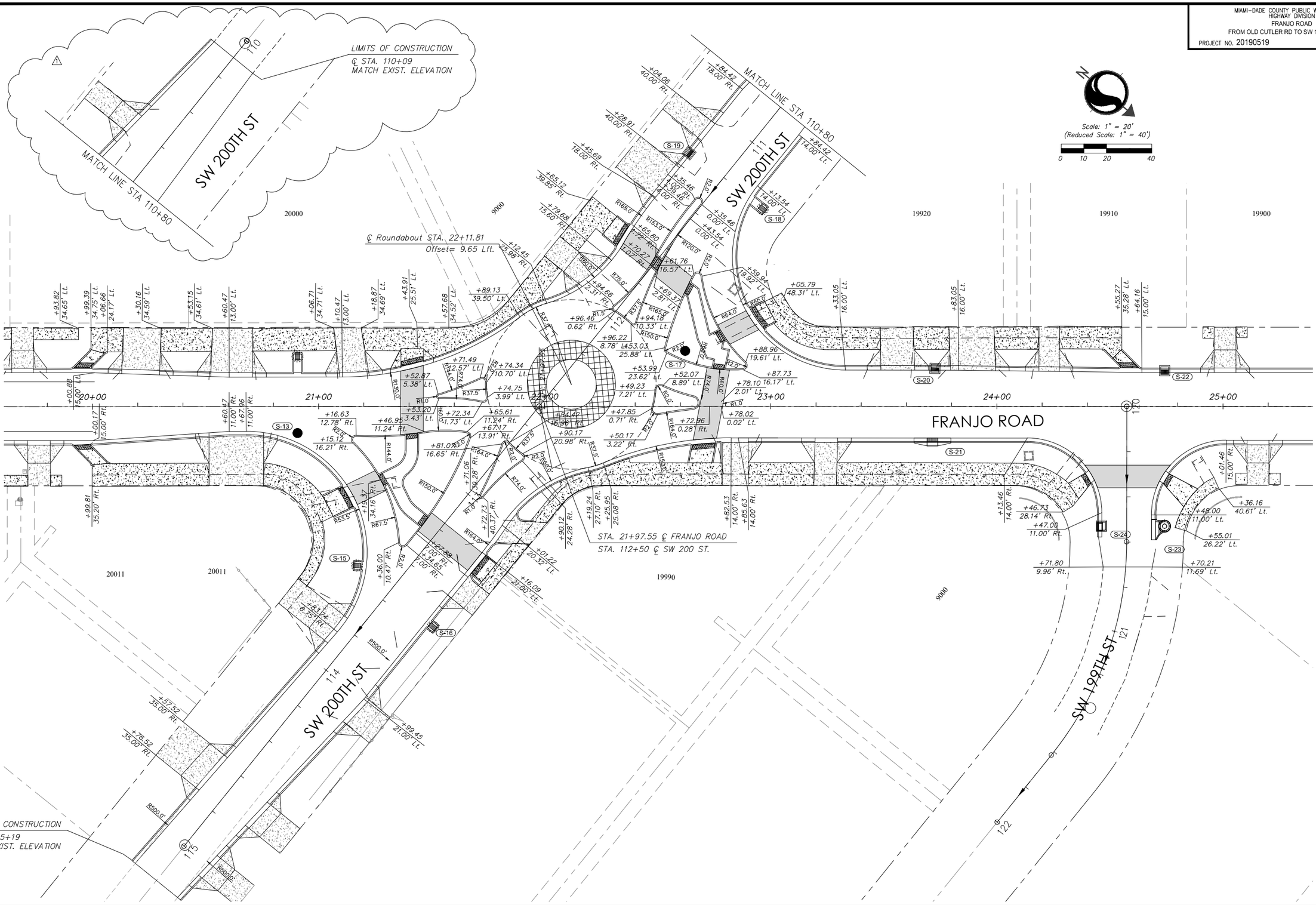
SUPERVISED BY:

MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

CONSTRUCTION DETAILS

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 20190519 SHEET C-23 OF 82



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

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DESIGNED BY	CMH	04-2021	DRAWN BY	RM	04-2021
CHECKED BY	CMH		CHECKED BY	CMH	
SUPERVISED BY:					

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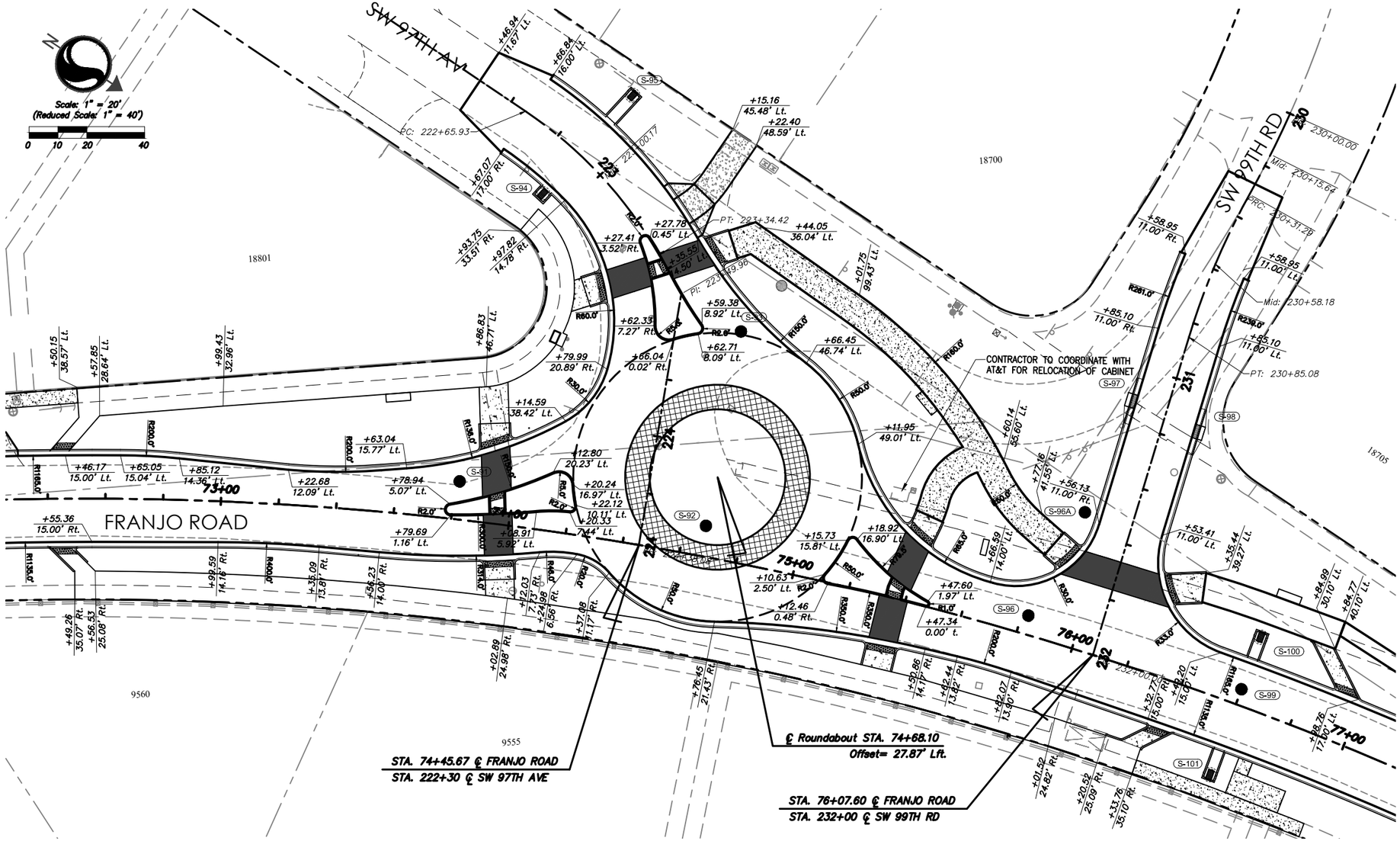
MIAMI, FLORIDA 33128

ROUNDABOUT GEOMETRY

PLOTTED BY: MORALES, ROD DATE: 2/12/2024 11:05 AM
CREATED: 2024-02-06 - V:\215\ACTIVE\215615952\CIVIL\DESIGN\DRAWING\CIVIL PLANS\159552_FRANJO_ROUNDABOUT GEOMETRY.DWG

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 20190519 SHEET C-24 OF 82



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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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DESIGNED BY	CMH	04-2021	DRAWN BY	RM	04-2021
CHECKED BY	CMH		CHECKED BY	CMH	
SUPERVISED BY:					

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
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STEPHEN P. CLARK CENTER
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MIAMI, FLORIDA 33128

ROUNDABOUT GEOMETRY

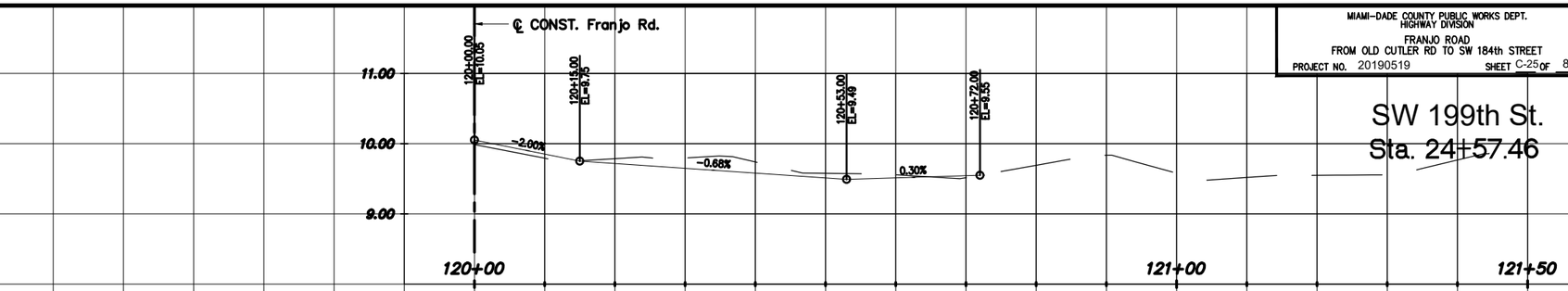
PLOTTED BY: MORALES, ROD DATE: 2/16/2023 4:54 PM
CREATED: 2022-02-04 - X:\2156\ACTIVE\215615952\CIVIL\DESIGN\DRAWINGS\CIVIL PLANS\15952_FRANJO_ROUNDABOUT GEOMETRY.DWG

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION

FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET

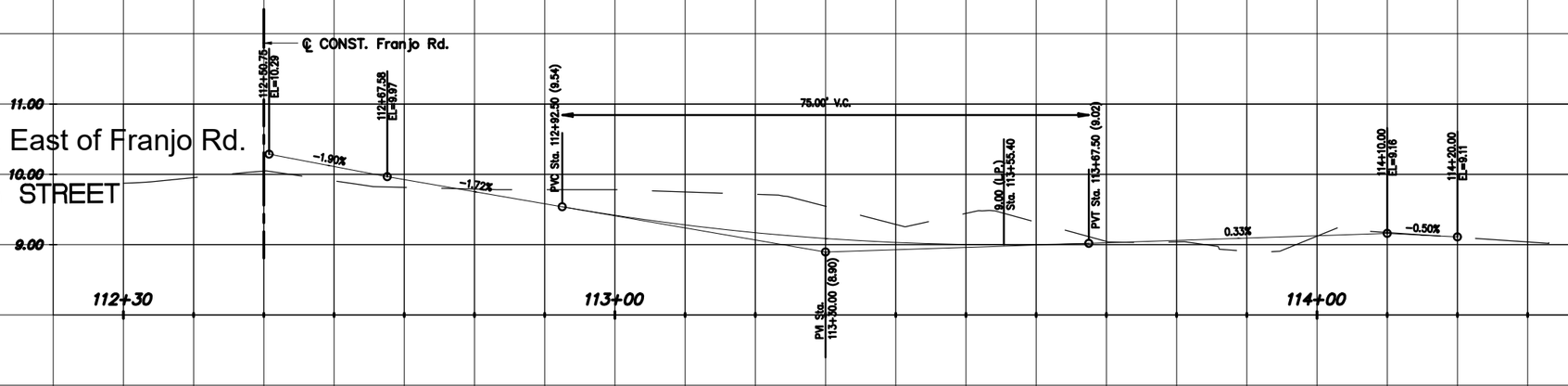
PROJECT NO. 20190519 SHEET C-25 OF 82

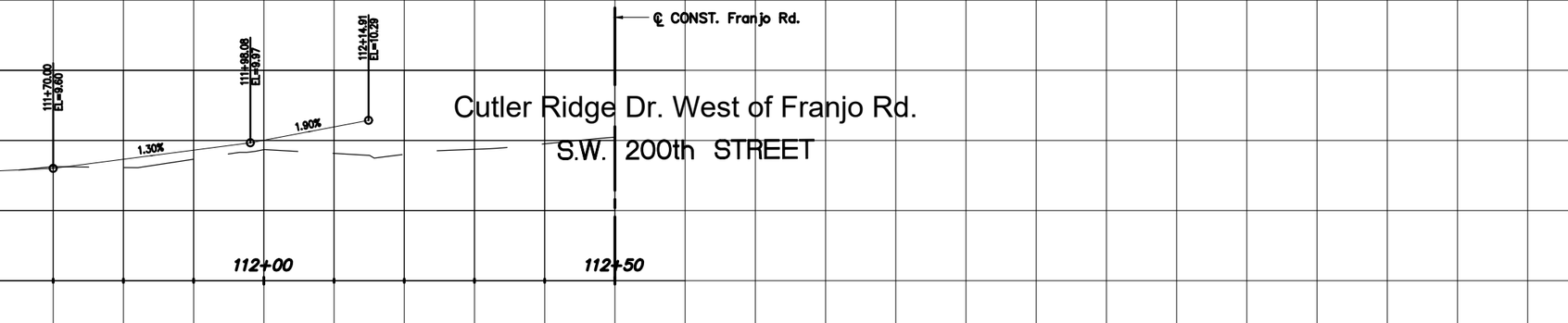
SW 199th St.
Sta. 24+57.46



Cutler Ridge Dr. East of Franjo Rd.

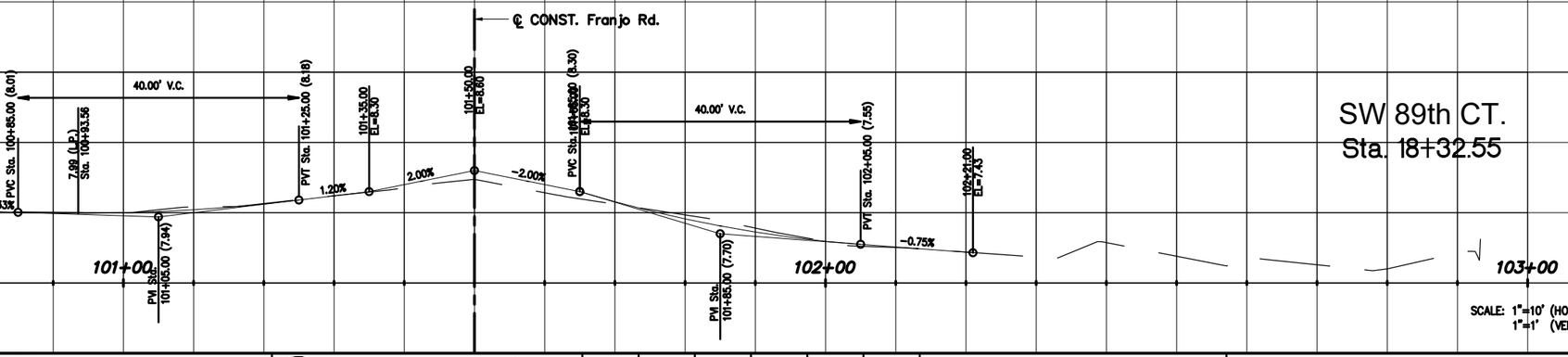
S.W. 200th STREET





Cutler Ridge Dr. West of Franjo Rd.

S.W. 200th STREET



SW 89th CT.
Sta. 18+32.55

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

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CHECKED BY	CMH		CHECKED BY	CMH	

SUPERVISED BY:

MIAMI-DADE COUNTY

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HIGHWAY DIVISION
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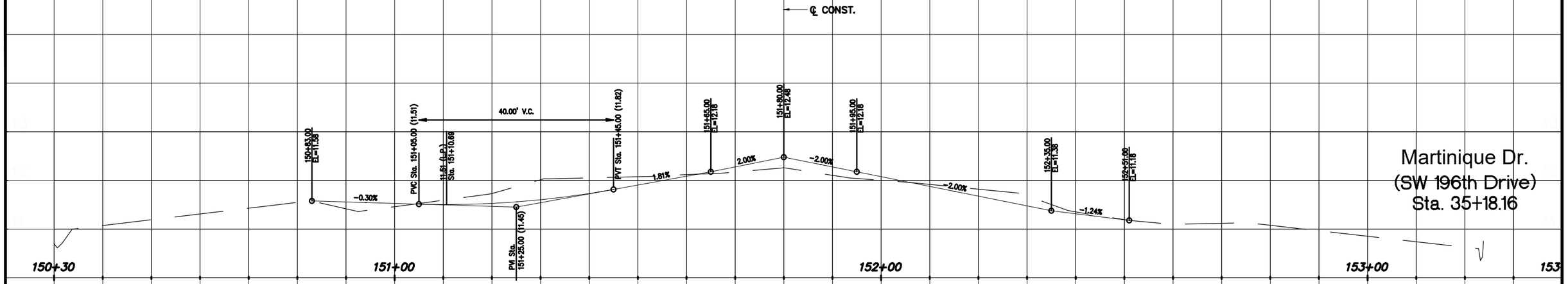
MIAMI, FLORIDA 33128

INTERSECTING STREET PROFILES

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET
PROJECT NO. 20190519 SHEET C-26 OF 82



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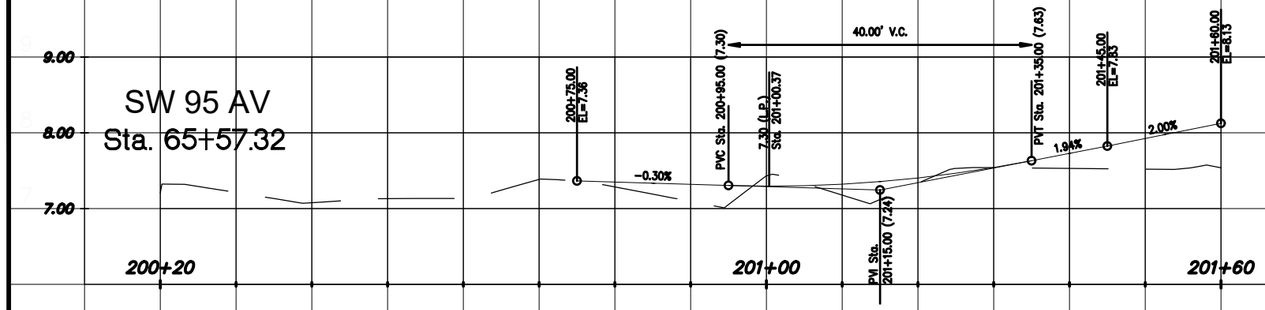
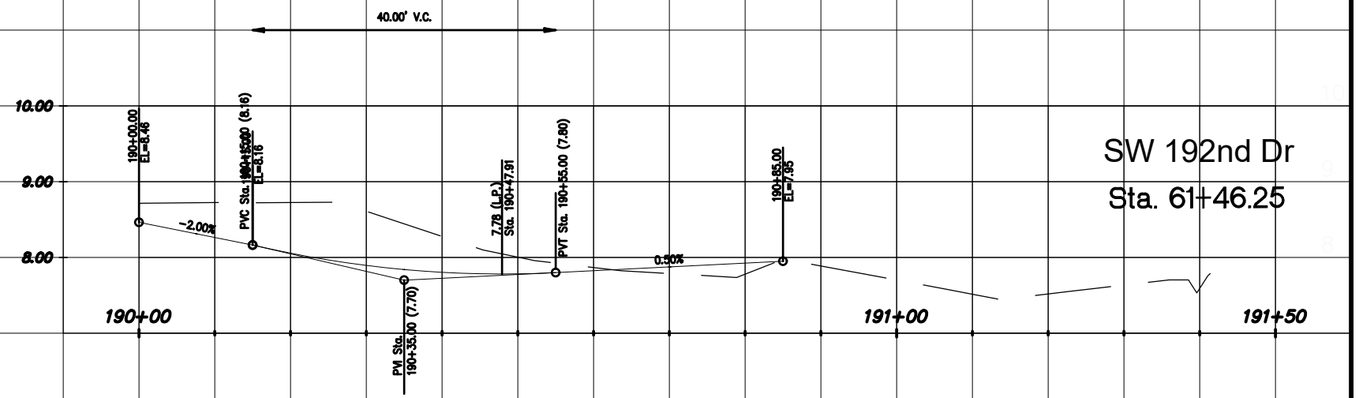
SUPERVISED BY:					

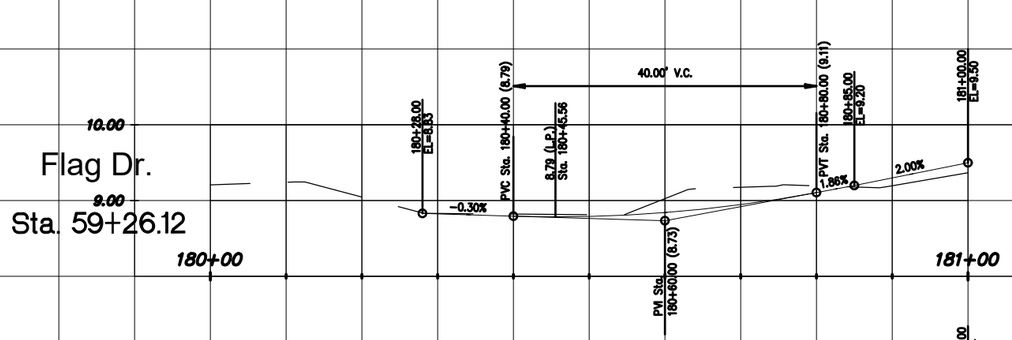
MIAMI-DADE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

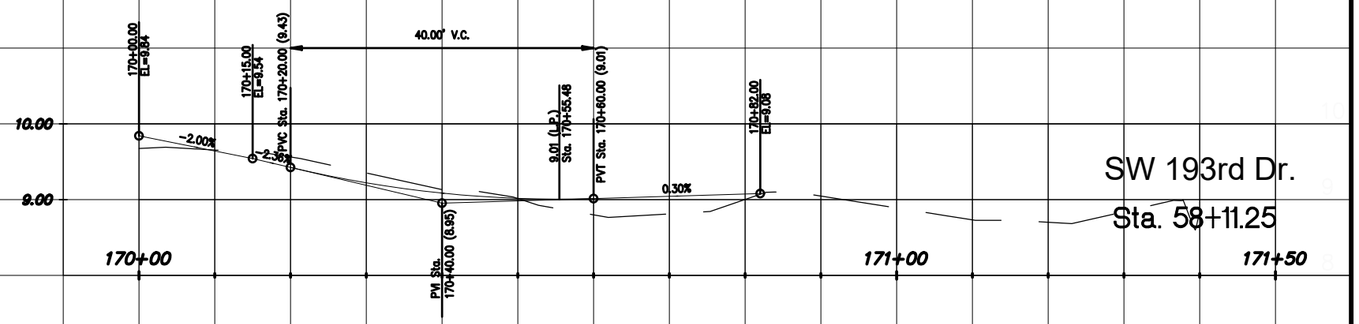
INTERSECTING STREET PROFILES

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET
PROJECT NO. 20190519 SHEET C-27 OF 82









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

REVISIONS

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MIAMI-DADE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
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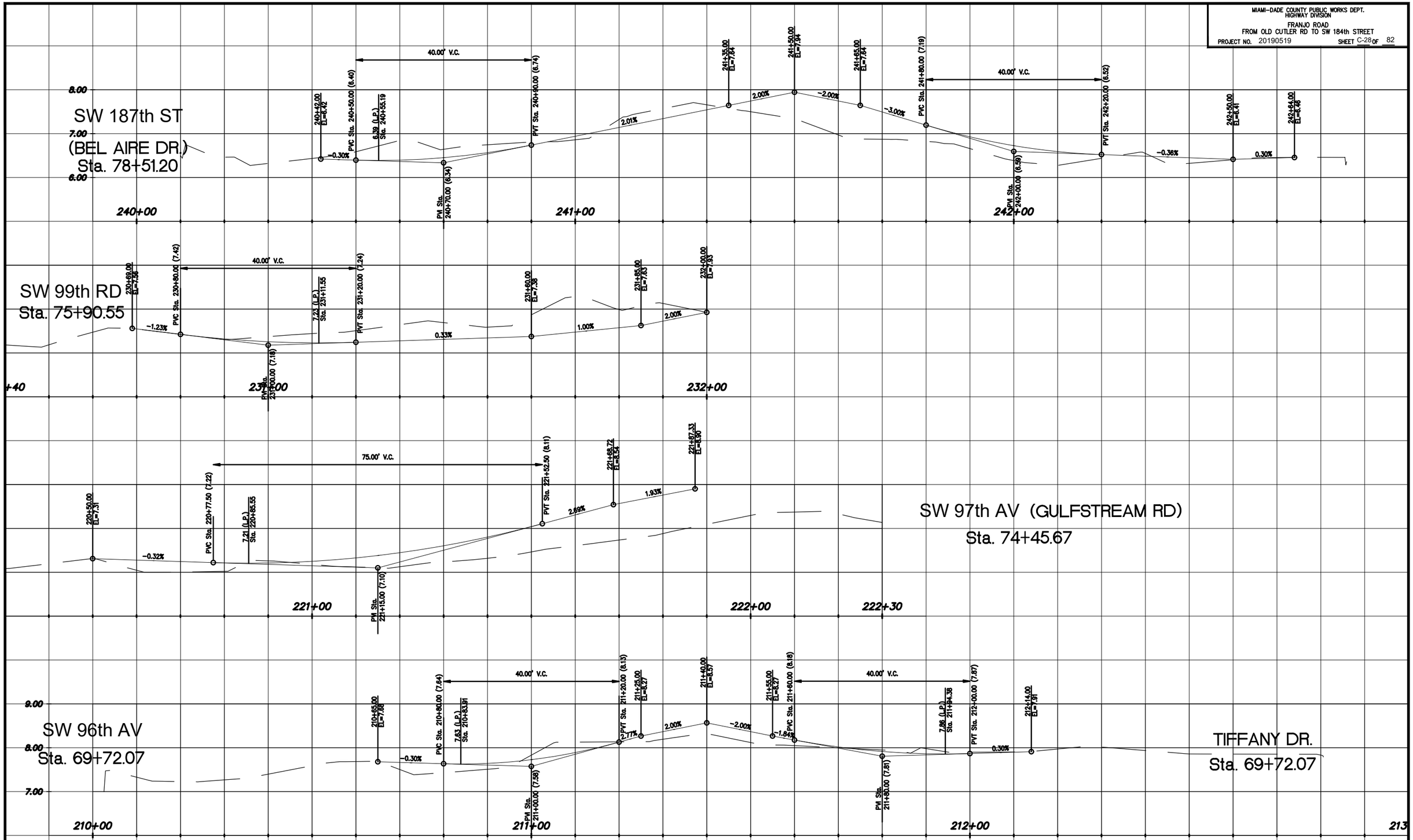
MIAMI, FLORIDA 33128

INTERSECTING STREET PROFILES

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION

FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET

PROJECT NO. 20190519 SHEET C-28 OF 82



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

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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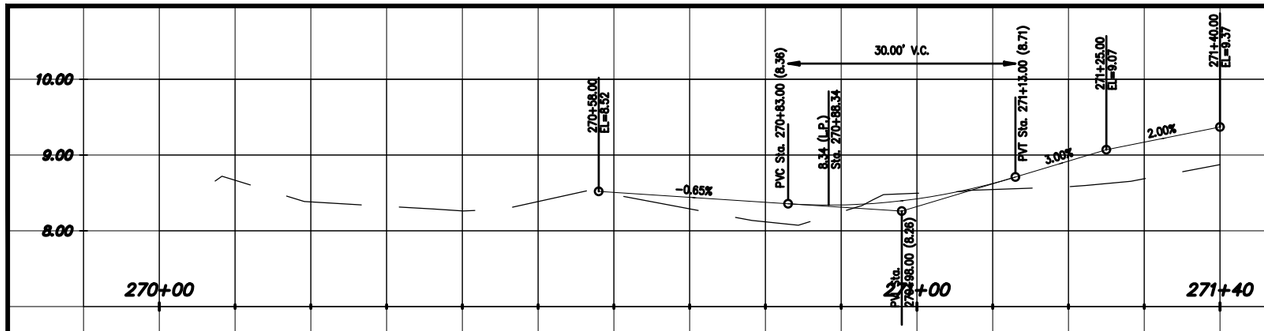
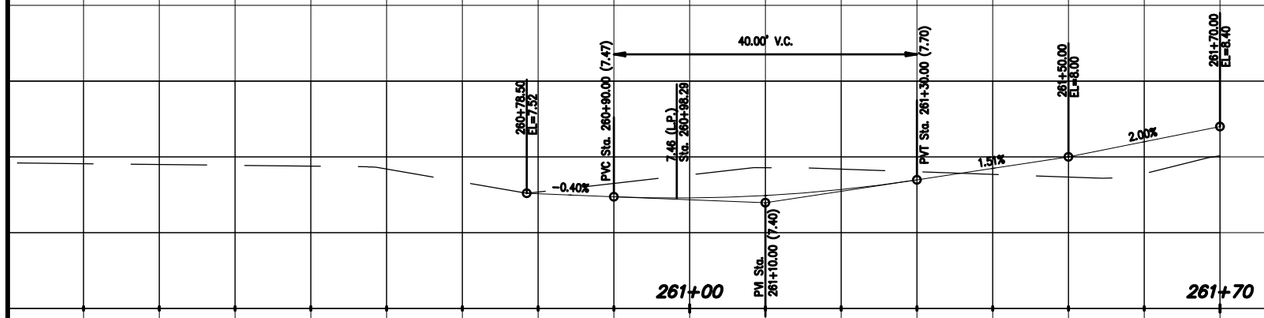
INTERSECTING STREET PROFILES

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET
PROJECT NO. 20190519 SHEET C-29 OF 82

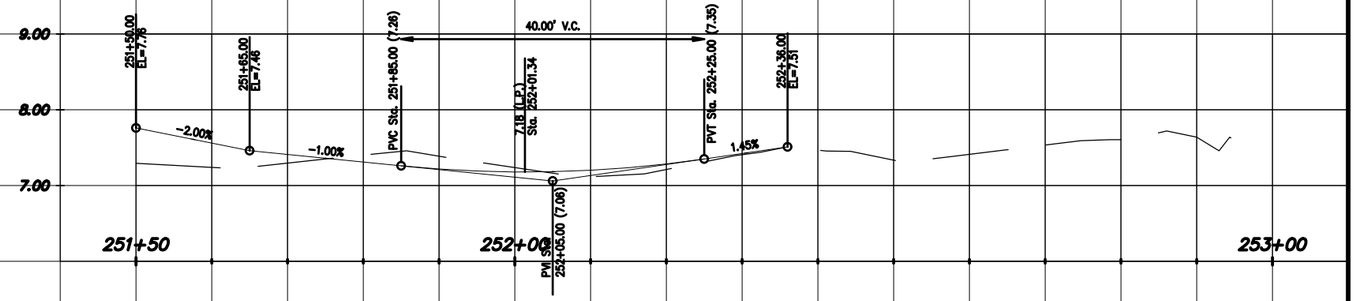


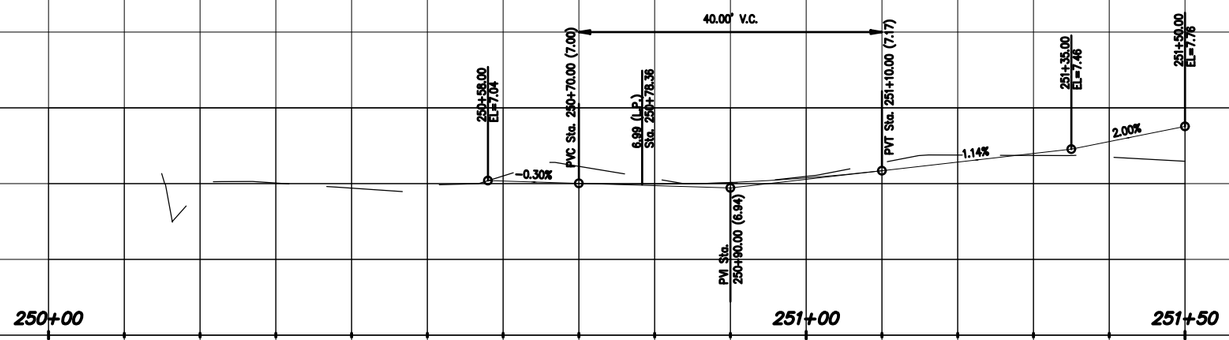
SW 185th Terr
Sta. 89+66.98



SW 186th St.
Sta. 86+91.97

STERLING DR EAST OF FRANJO
Sta. 83+09.28





STERLING DR WEST OF FRANJO
Sta. 83+11.56

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

REVISIONS

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SUPERVISED BY:					

MIAMI-DADE COUNTY

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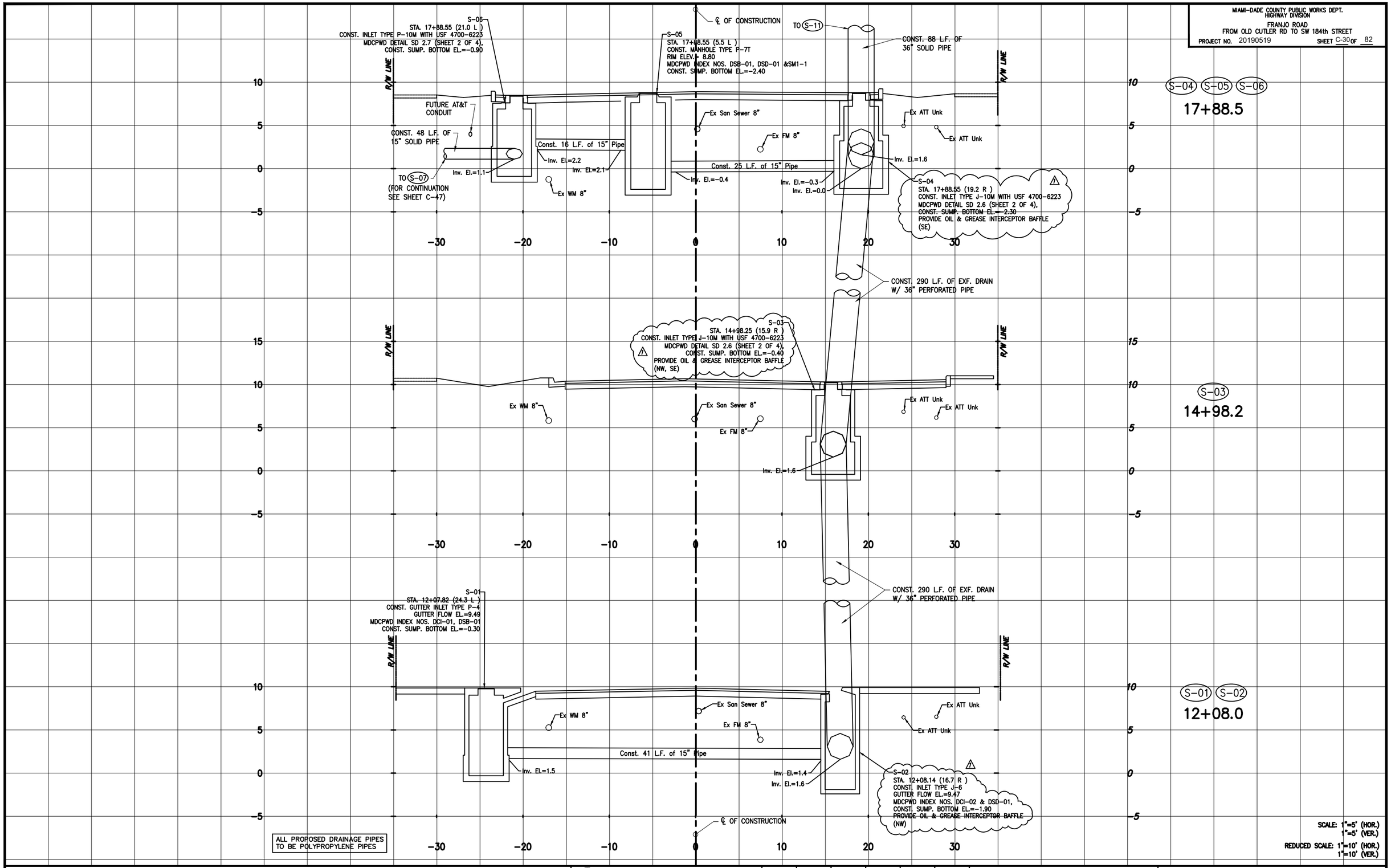
MIAMI, FLORIDA 33128

INTERSECTING STREET PROFILES

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



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

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

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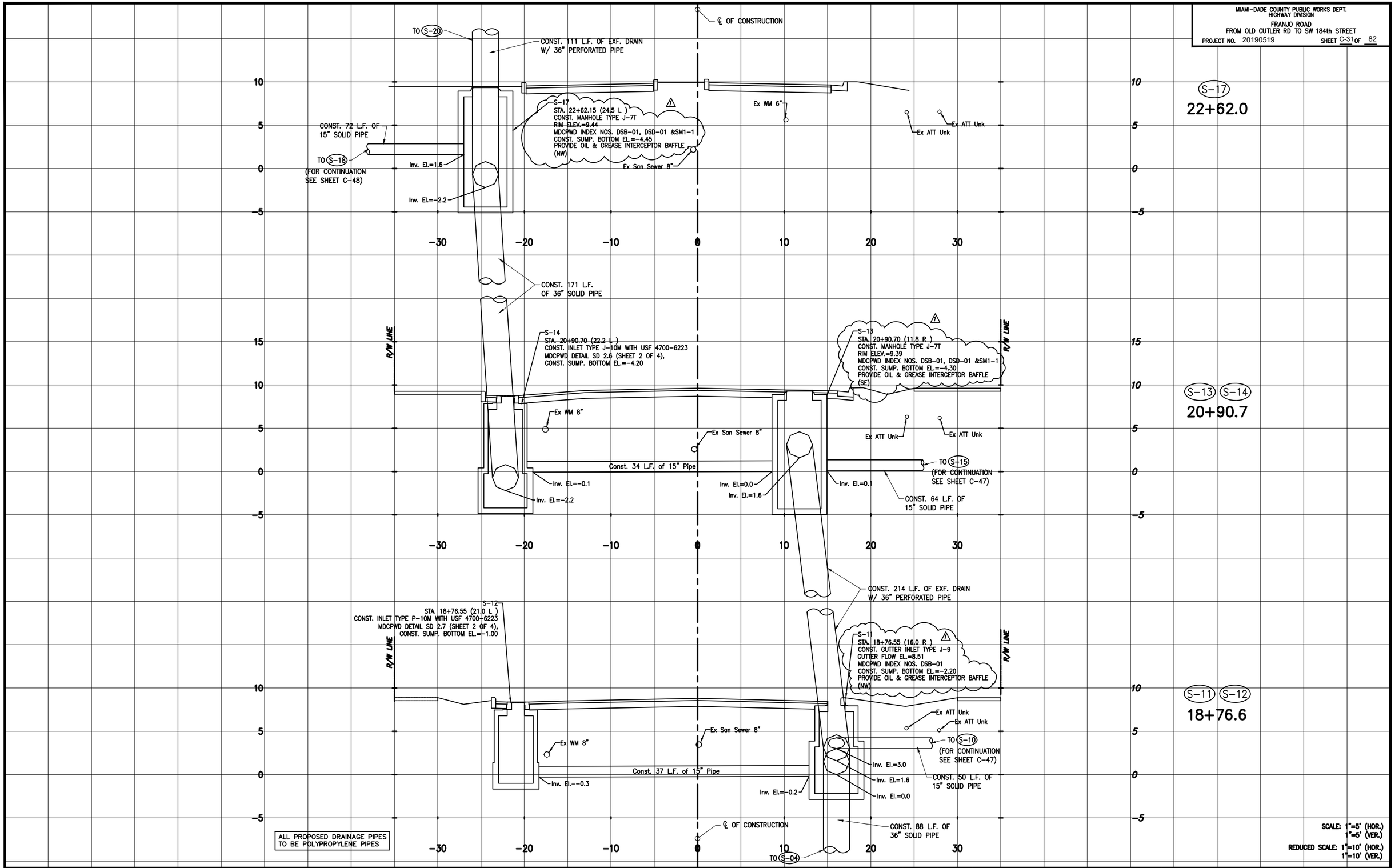
MIAMI, FLORIDA 33128

DRAINAGE STRUCTURES

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION

FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET

PROJECT NO. 20190519 SHEET C-31 OF 82



ALL PROPOSED DRAINAGE PIPES TO BE POLYPROPYLENE PIPES

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

REVISIONS

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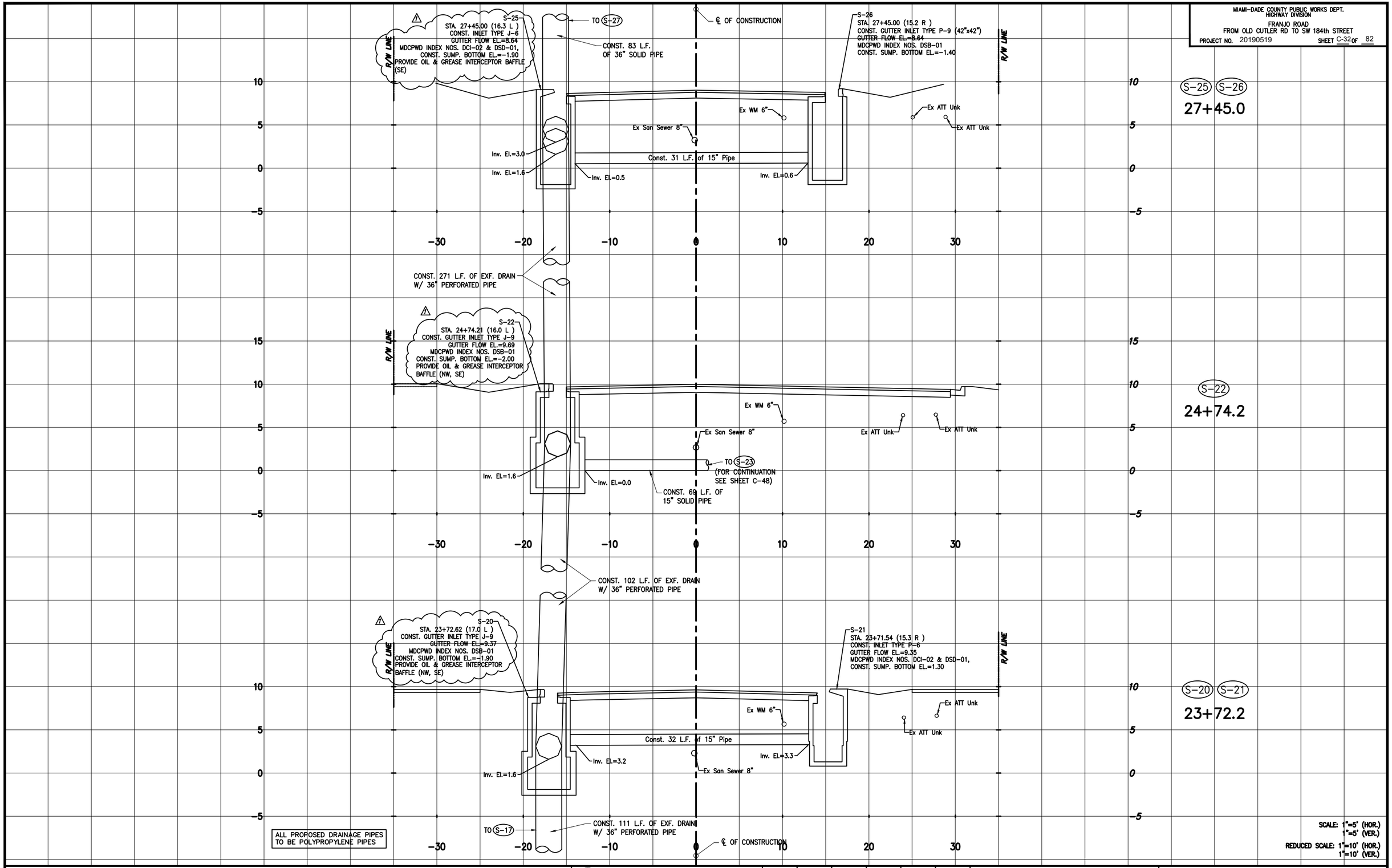
CHECKED BY	CMH		CHECKED BY	CMH	

SUPERVISED BY:

MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

DRAINAGE STRUCTURES



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SUPERVISED BY:					

MIAMI-DADE COUNTY

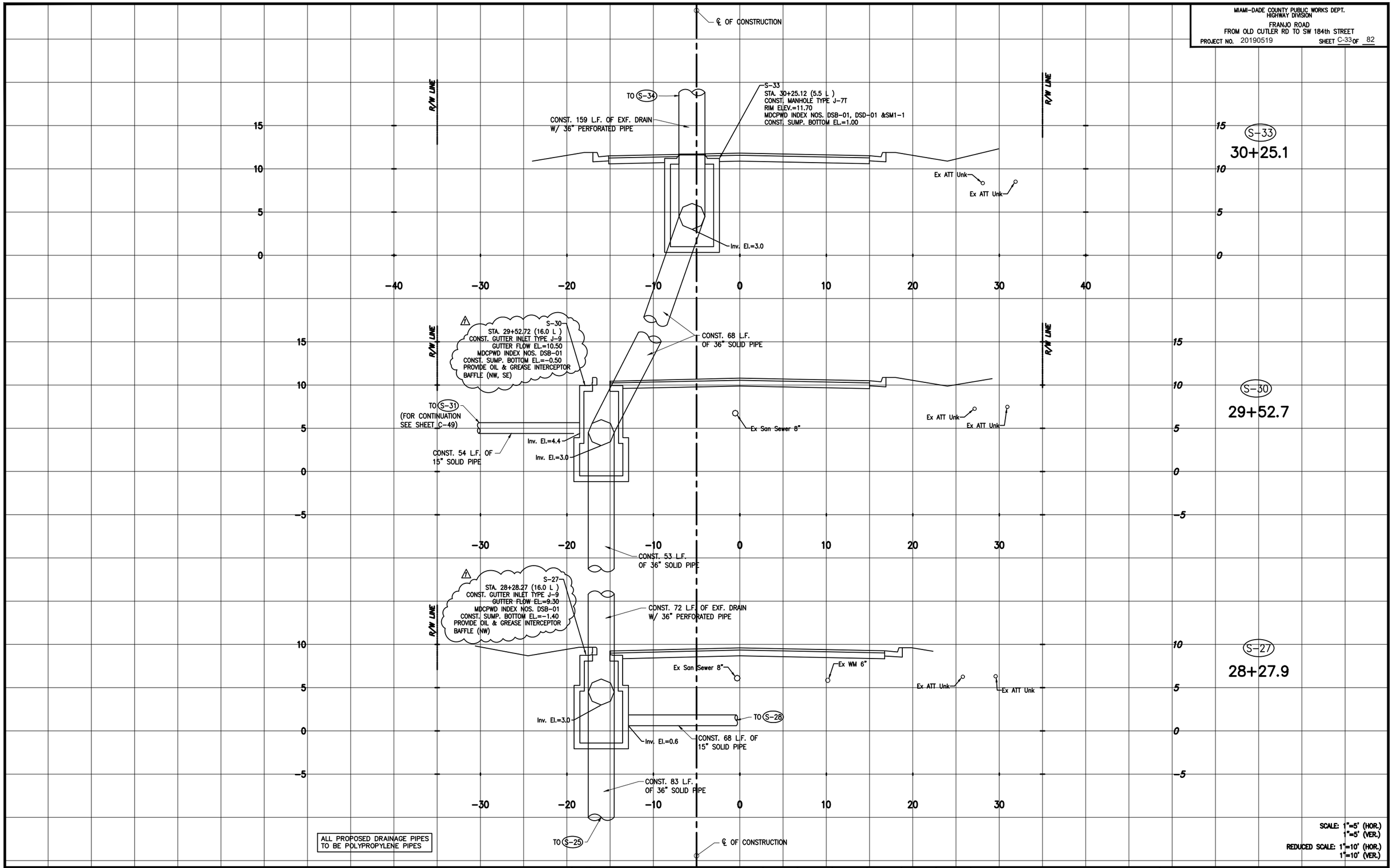
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

DRAINAGE STRUCTURES

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION

FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET

PROJECT NO. 20190519 SHEET C-33 OF 82



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HIGHWAY DIVISION
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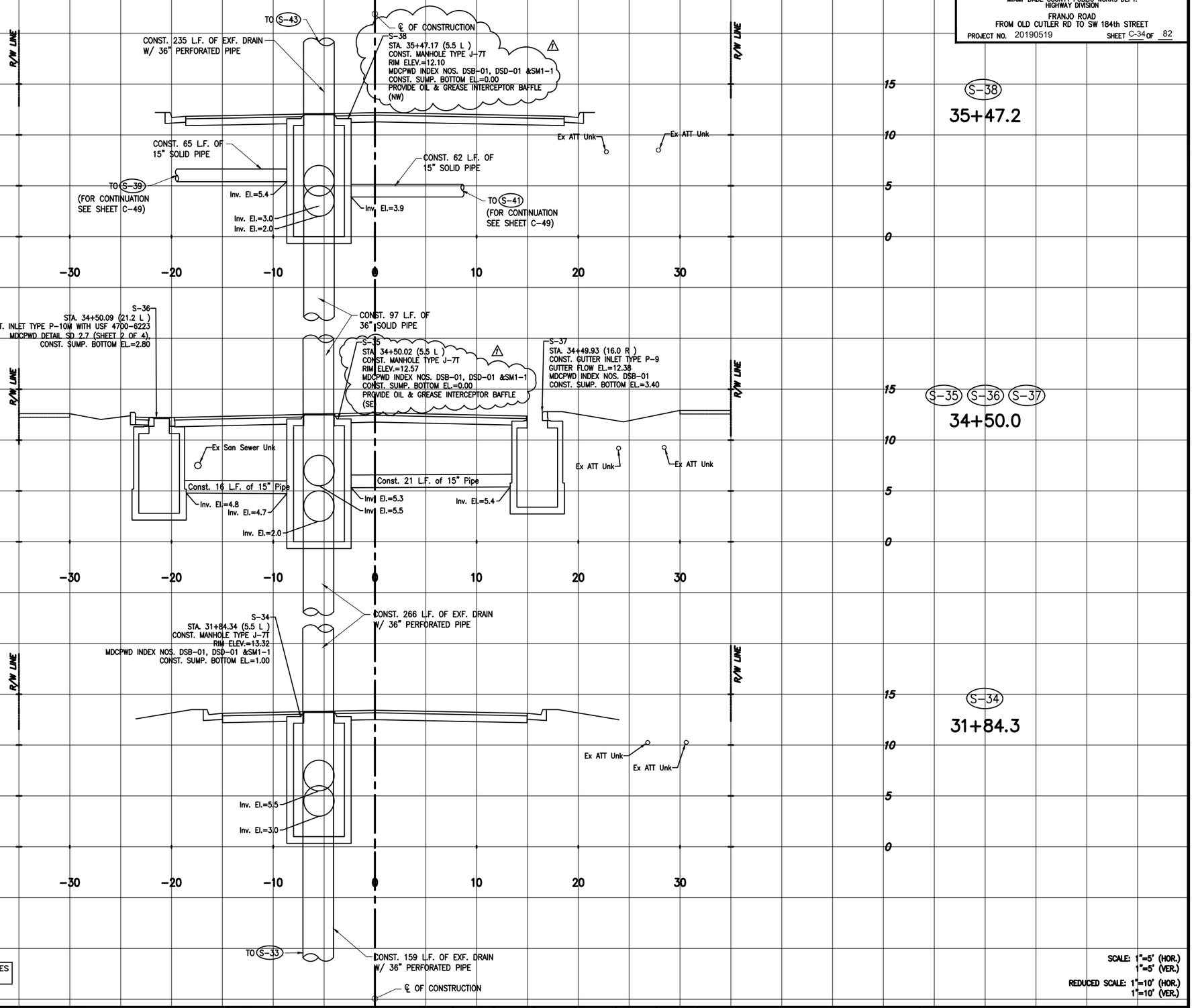
MIAMI, FLORIDA 33128

DRAINAGE STRUCTURES

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION

FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET

PROJECT NO. 20190519 SHEET C-34 OF 82



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

SUPERVISED BY:

MIAMI-DADE COUNTY

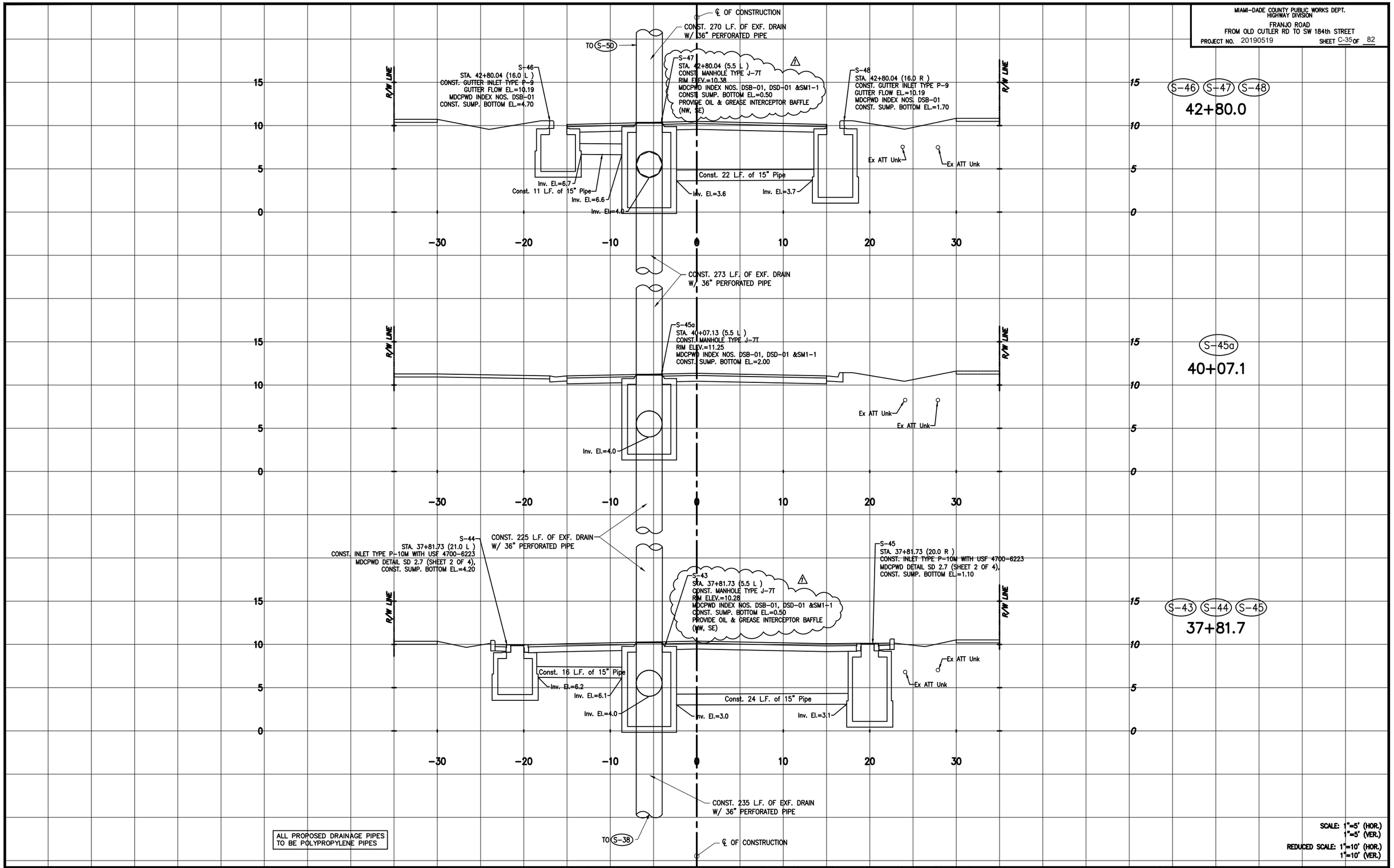
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

DRAINAGE STRUCTURES

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION

FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET

PROJECT NO. 20190519 SHEET C-35 OF 82



S-46 S-47 S-48

42+80.0

S-45a

40+07.1

S-43 S-44 S-45

37+81.7

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

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HIGHWAY DIVISION
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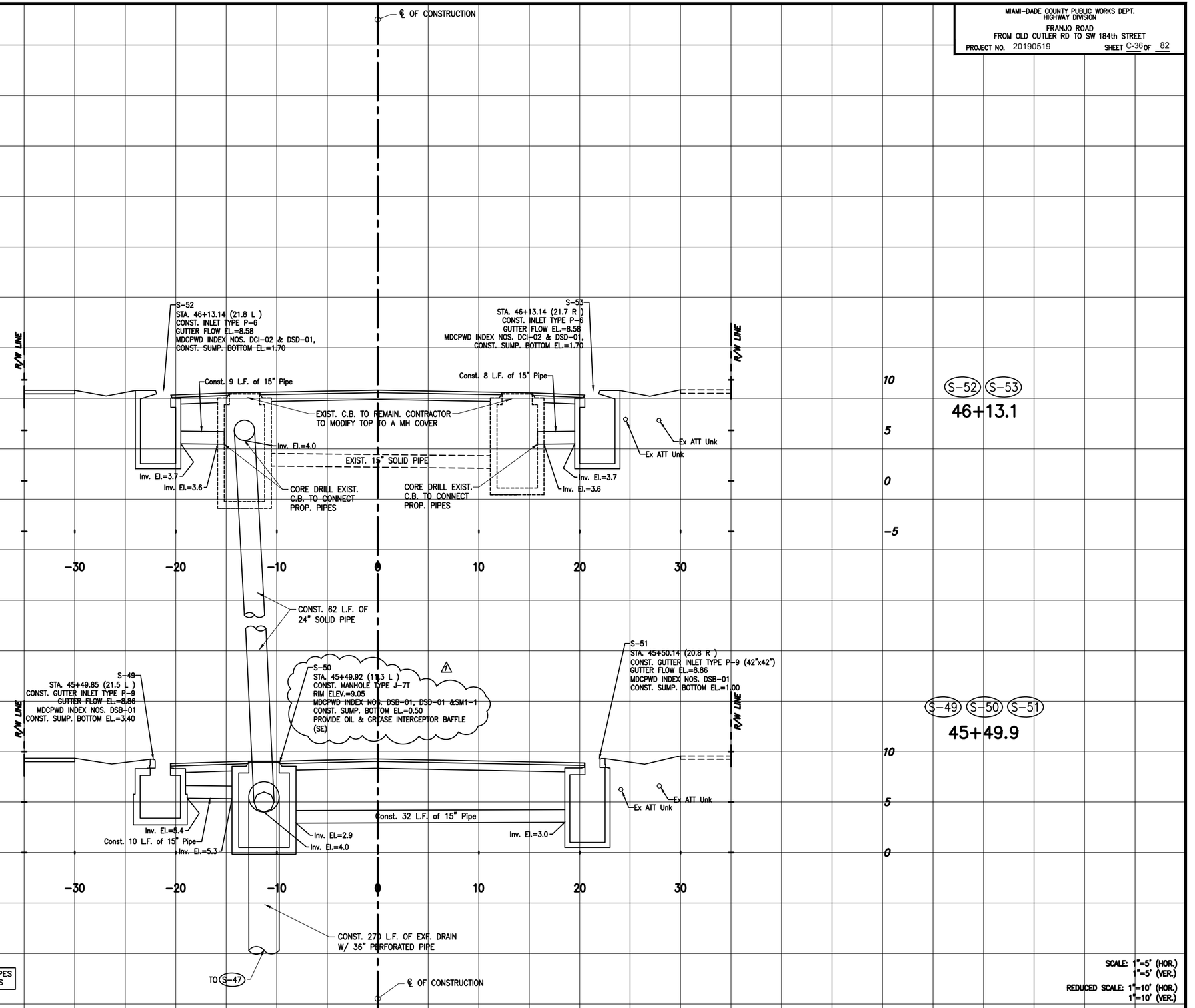
MIAMI, FLORIDA 33128

DRAINAGE STRUCTURES

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



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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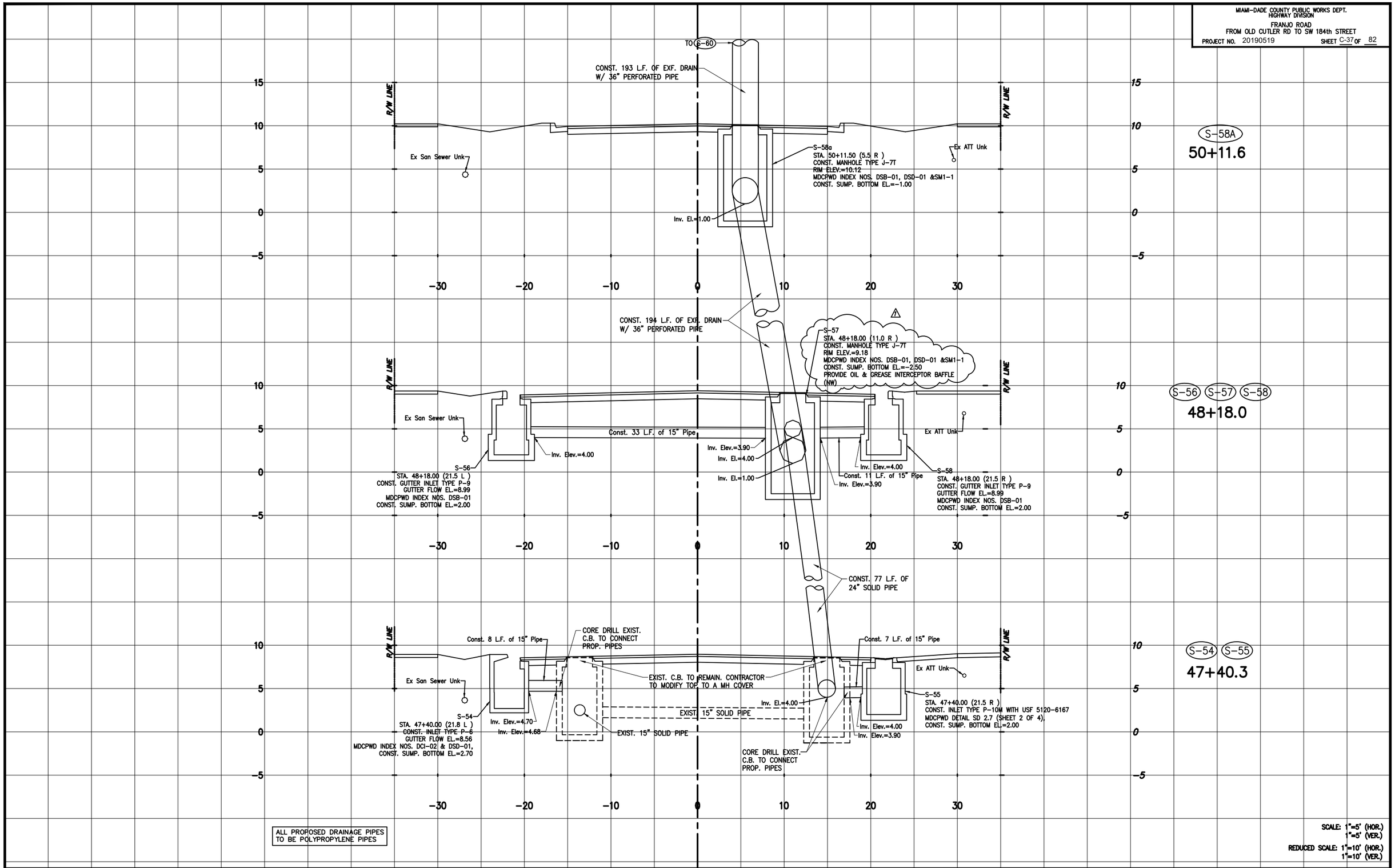
DRAINAGE STRUCTURES

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET
PROJECT NO. 20190519 SHEET C-37 OF 82



ALL PROPOSED DRAINAGE PIPES TO BE POLYPROPYLENE PIPES

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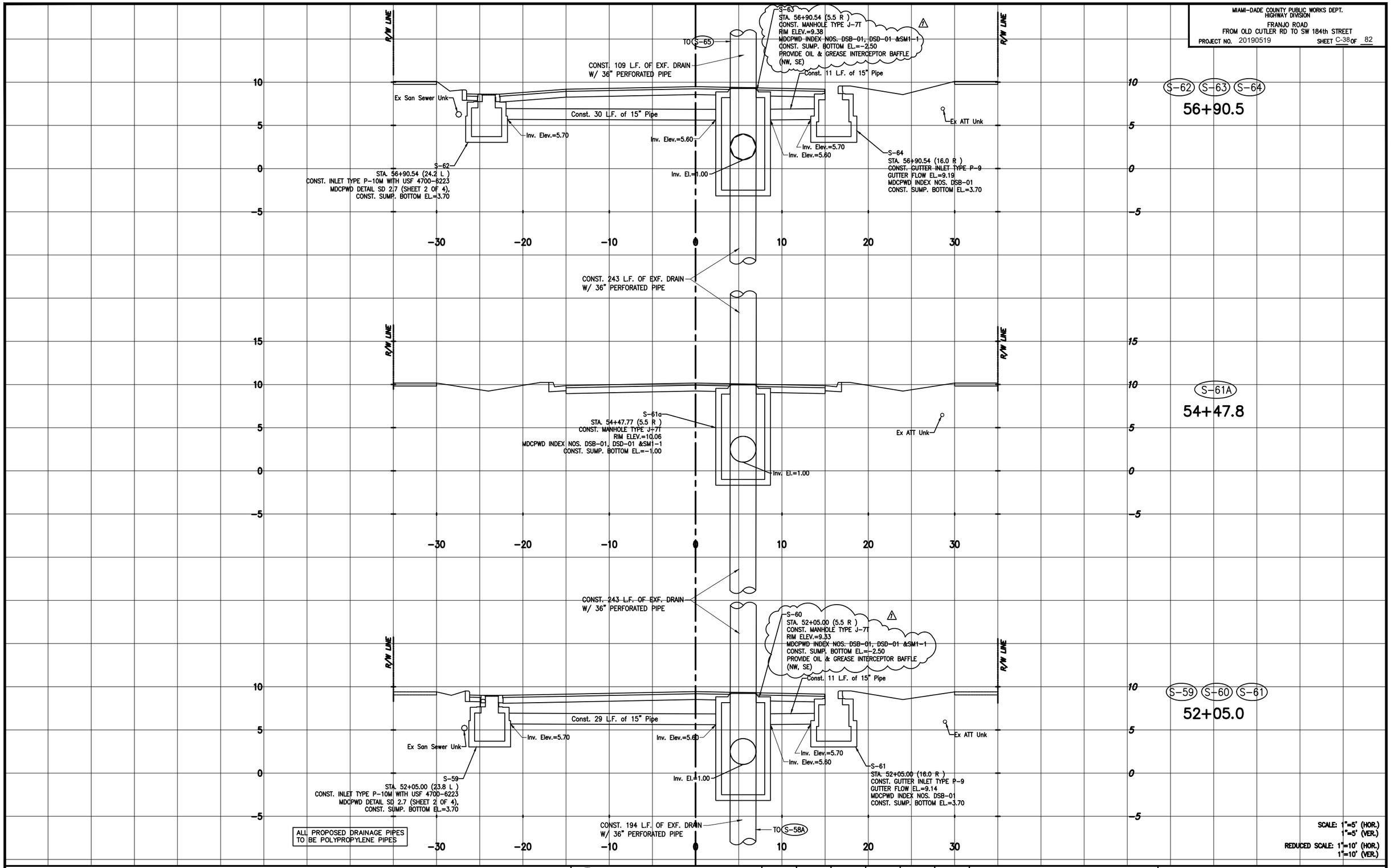
DRAINAGE STRUCTURES

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION

FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET

PROJECT NO. 20190519 SHEET C-38 OF 82



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

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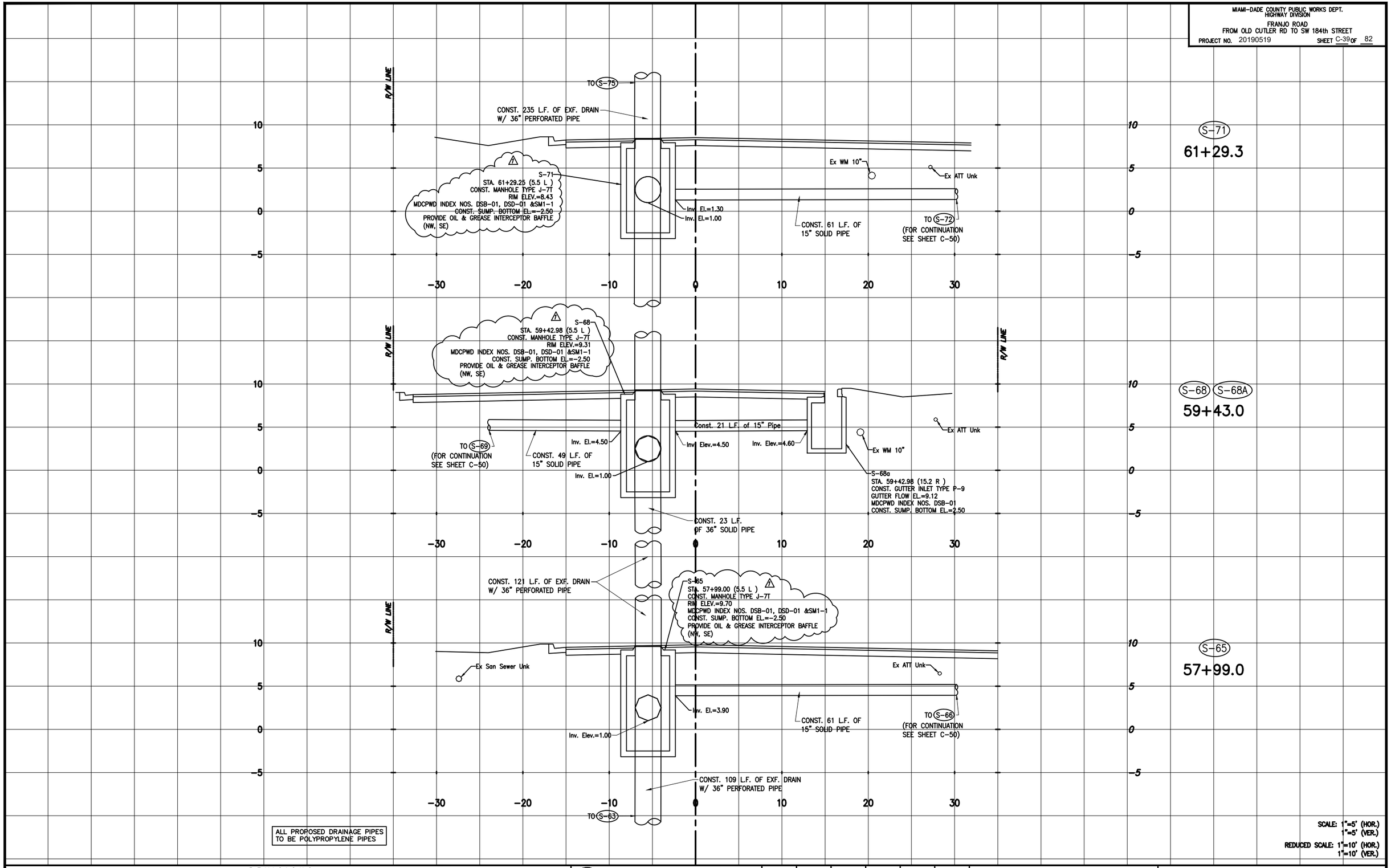
DRAINAGE STRUCTURES

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION

FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET

PROJECT NO. 20190519 SHEET C-39 OF 82



ALL PROPOSED DRAINAGE PIPES
TO BE POLYPROPYLENE PIPES

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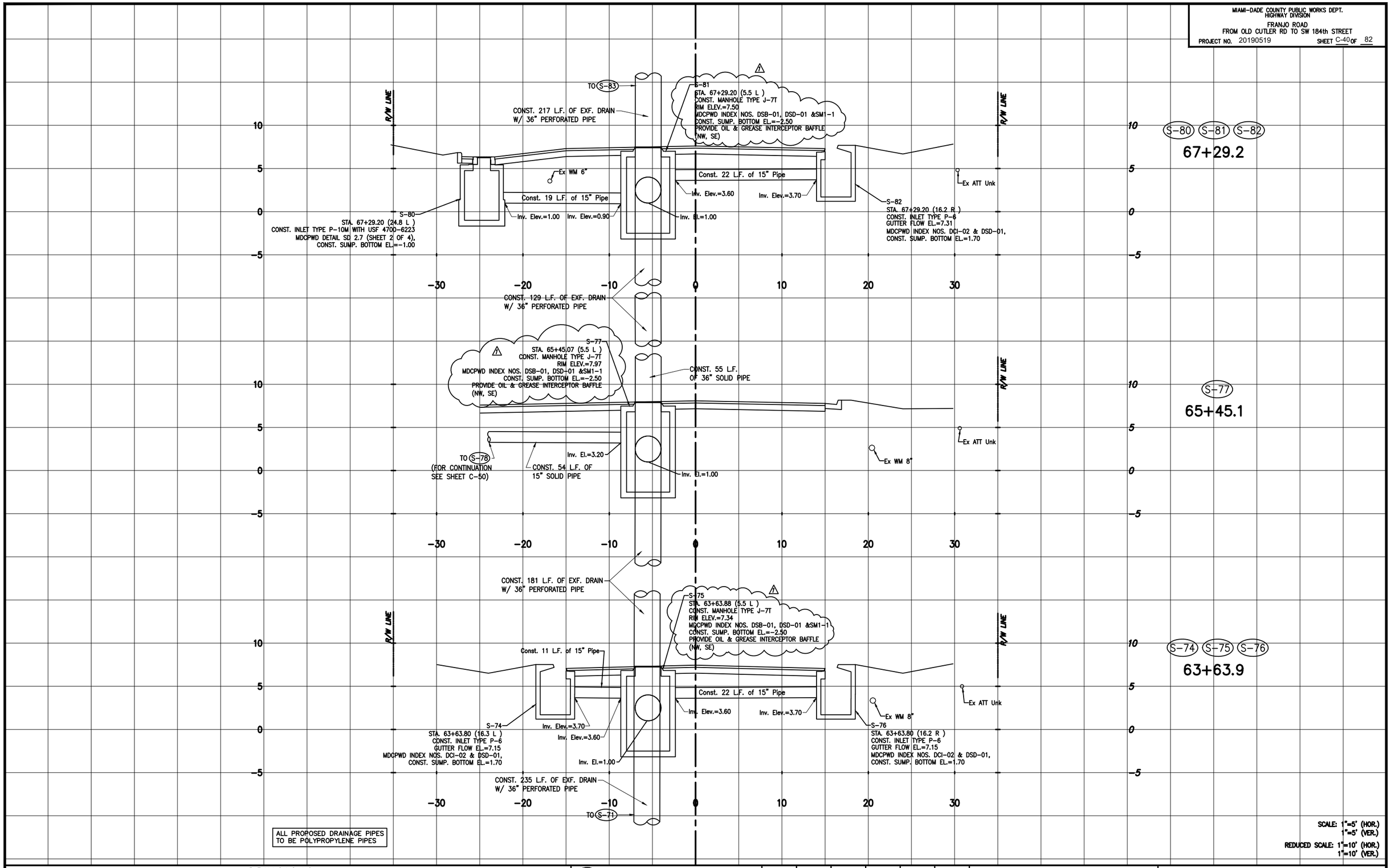
DRAINAGE STRUCTURES

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION

FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET

PROJECT NO. 20190519 SHEET C-40 OF 82



ALL PROPOSED DRAINAGE PIPES
TO BE POLYPROPYLENE PIPES

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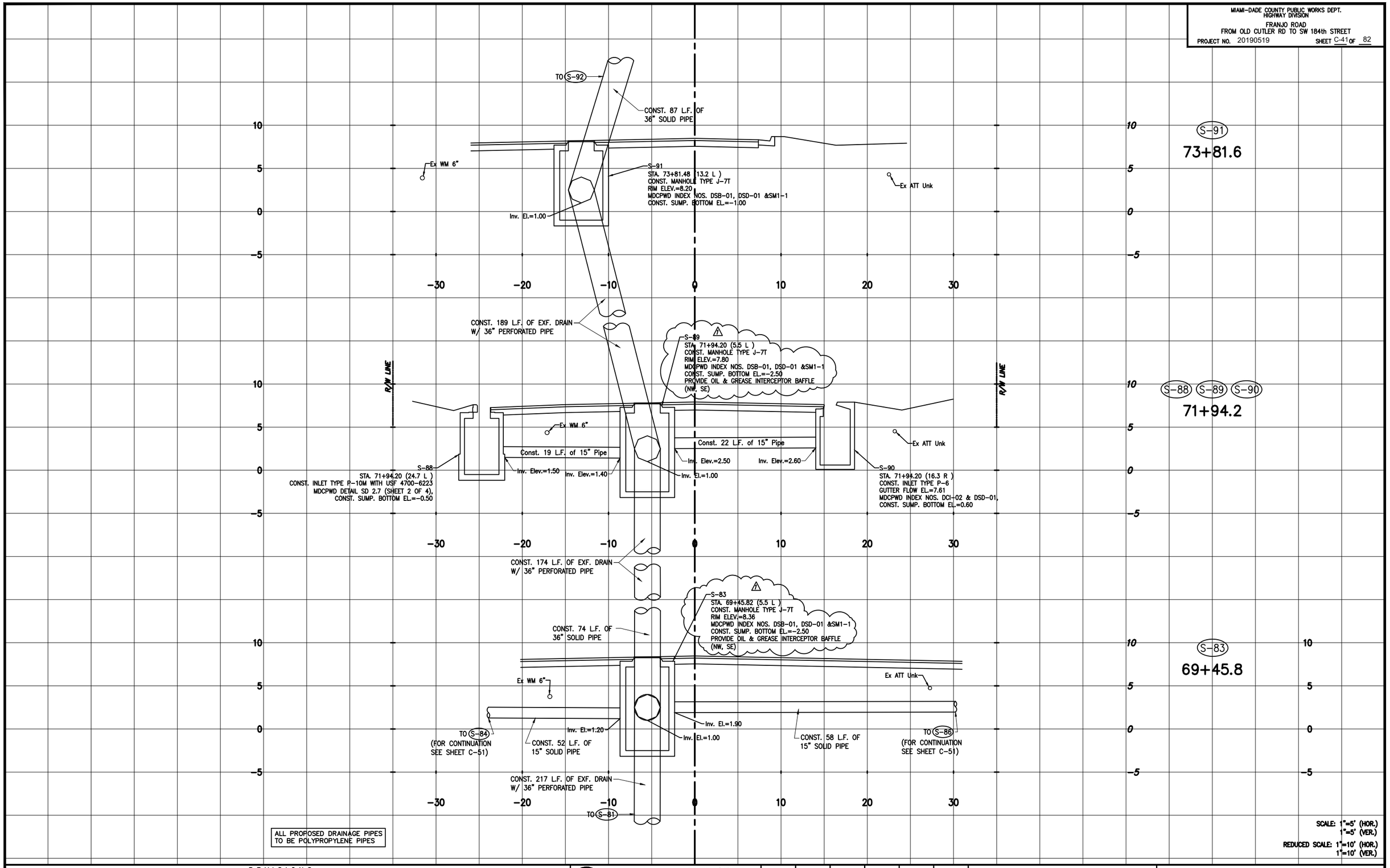
DRAINAGE STRUCTURES

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION

FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET

PROJECT NO. 20190519 SHEET C-41 OF 82



ALL PROPOSED DRAINAGE PIPES TO BE POLYPROPYLENE PIPES

SCALE: 1"=5' (HOR.)
1"=5' (VER.)
REDUCED SCALE: 1"=10' (HOR.)
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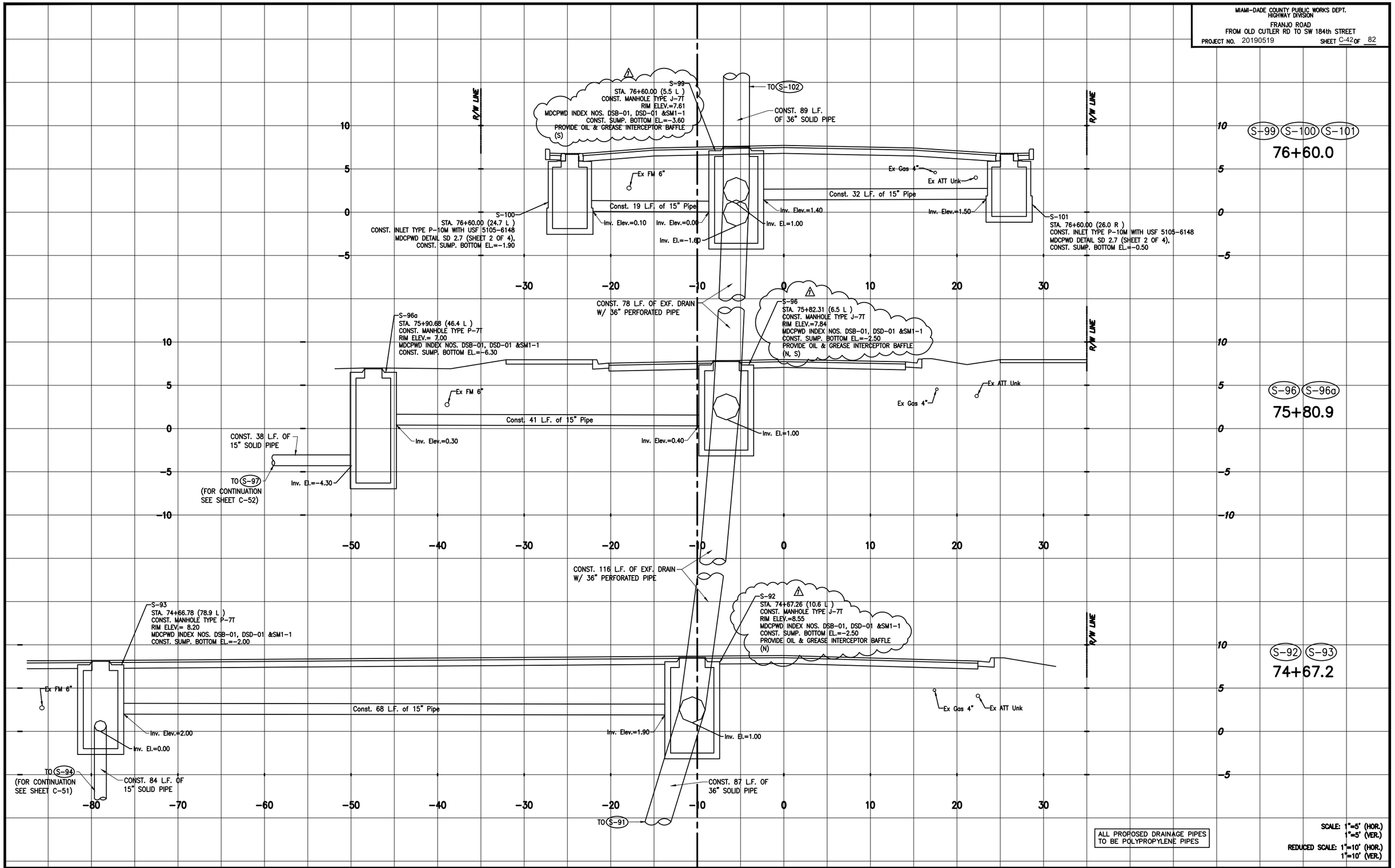
MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION

FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET

PROJECT NO. 20190519 SHEET C-42 OF 82



ALL PROPOSED DRAINAGE PIPES TO BE POLYPROPYLENE PIPES

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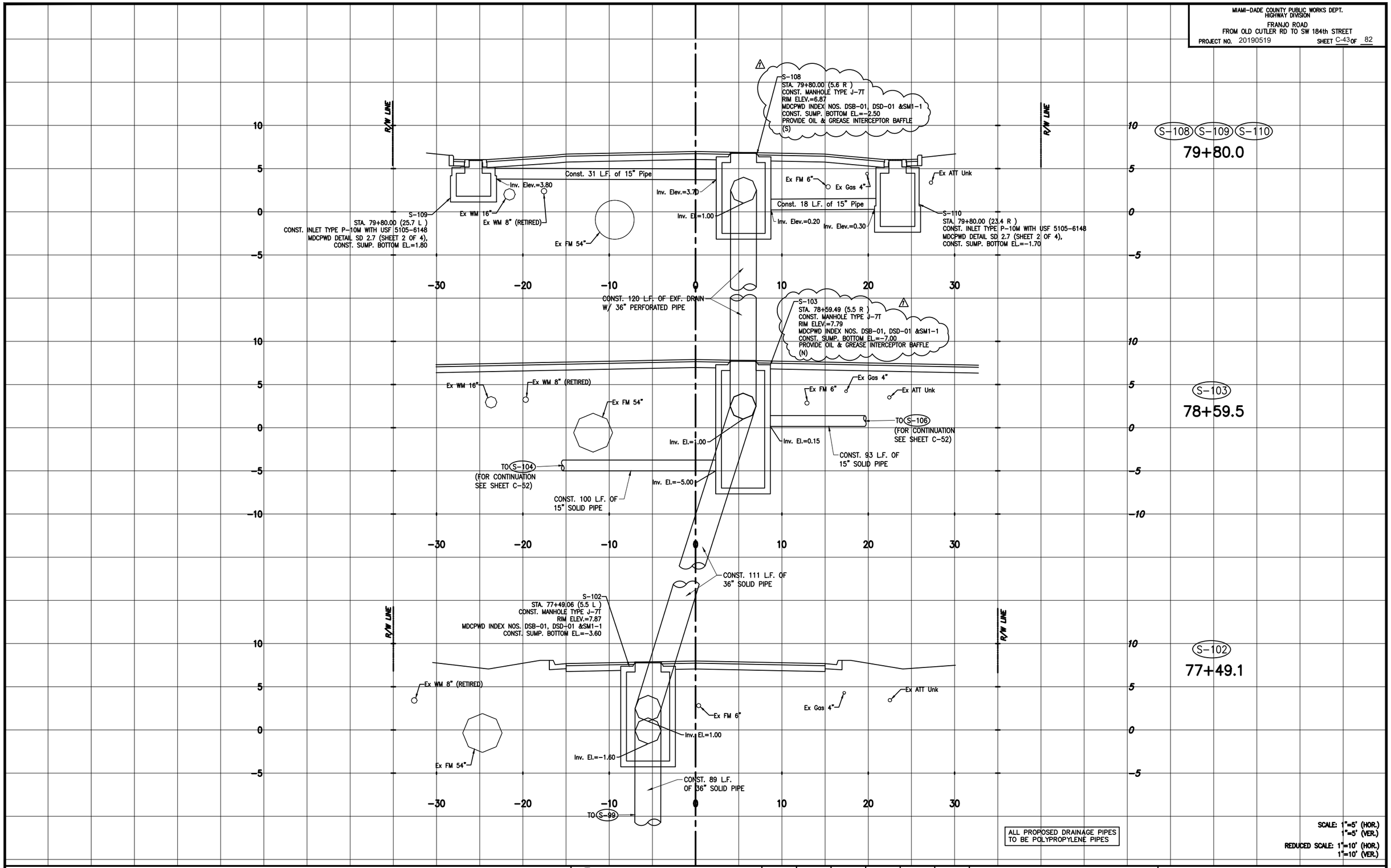
DRAINAGE STRUCTURES

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION

FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET

PROJECT NO. 20190519 SHEET C-43 OF 82



ALL PROPOSED DRAINAGE PIPES TO BE POLYPROPYLENE PIPES

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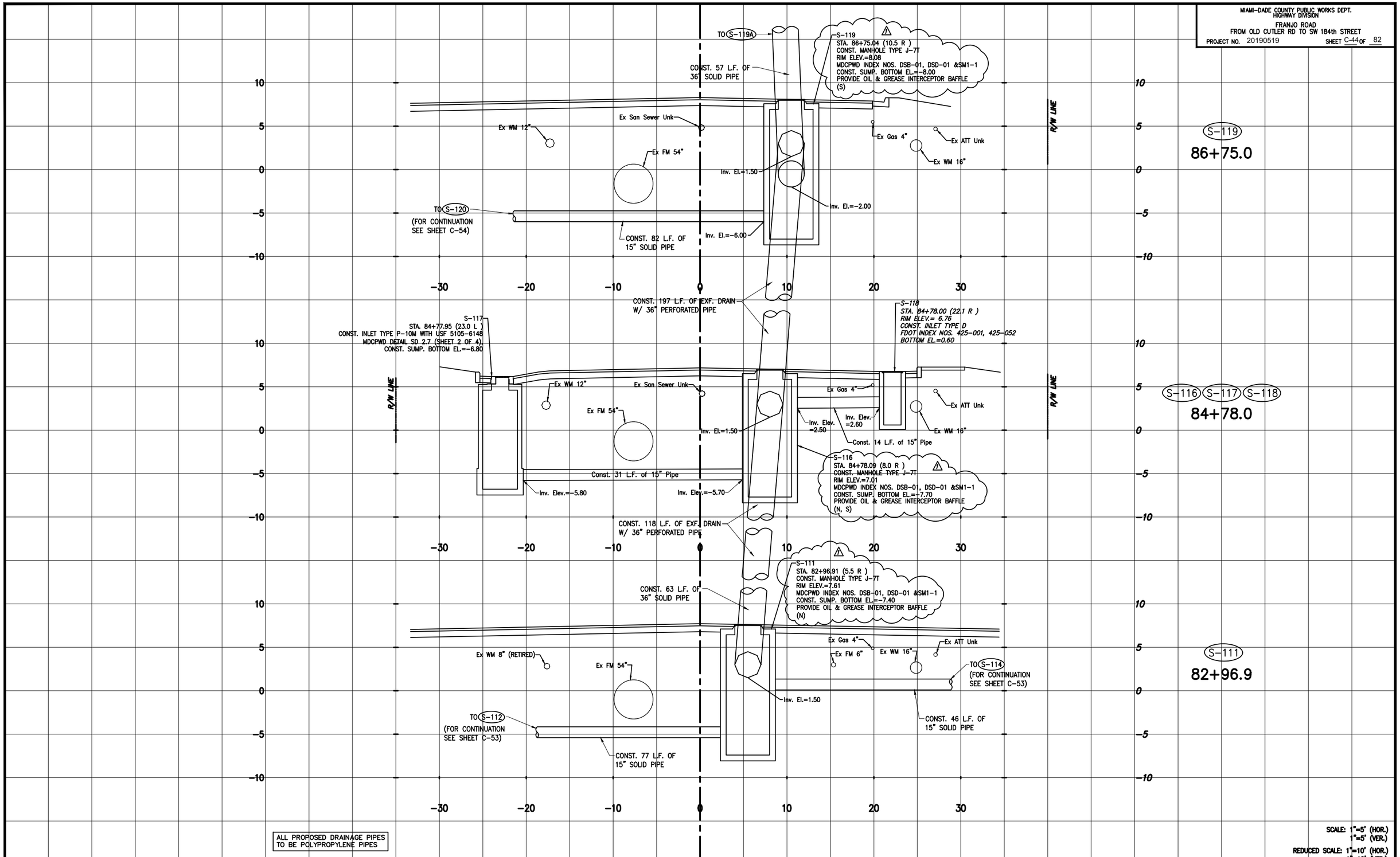
DRAINAGE STRUCTURES

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION

FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET

PROJECT NO. 20190519 SHEET C-44 OF 82



ALL PROPOSED DRAINAGE PIPES TO BE POLYPROPYLENE PIPES

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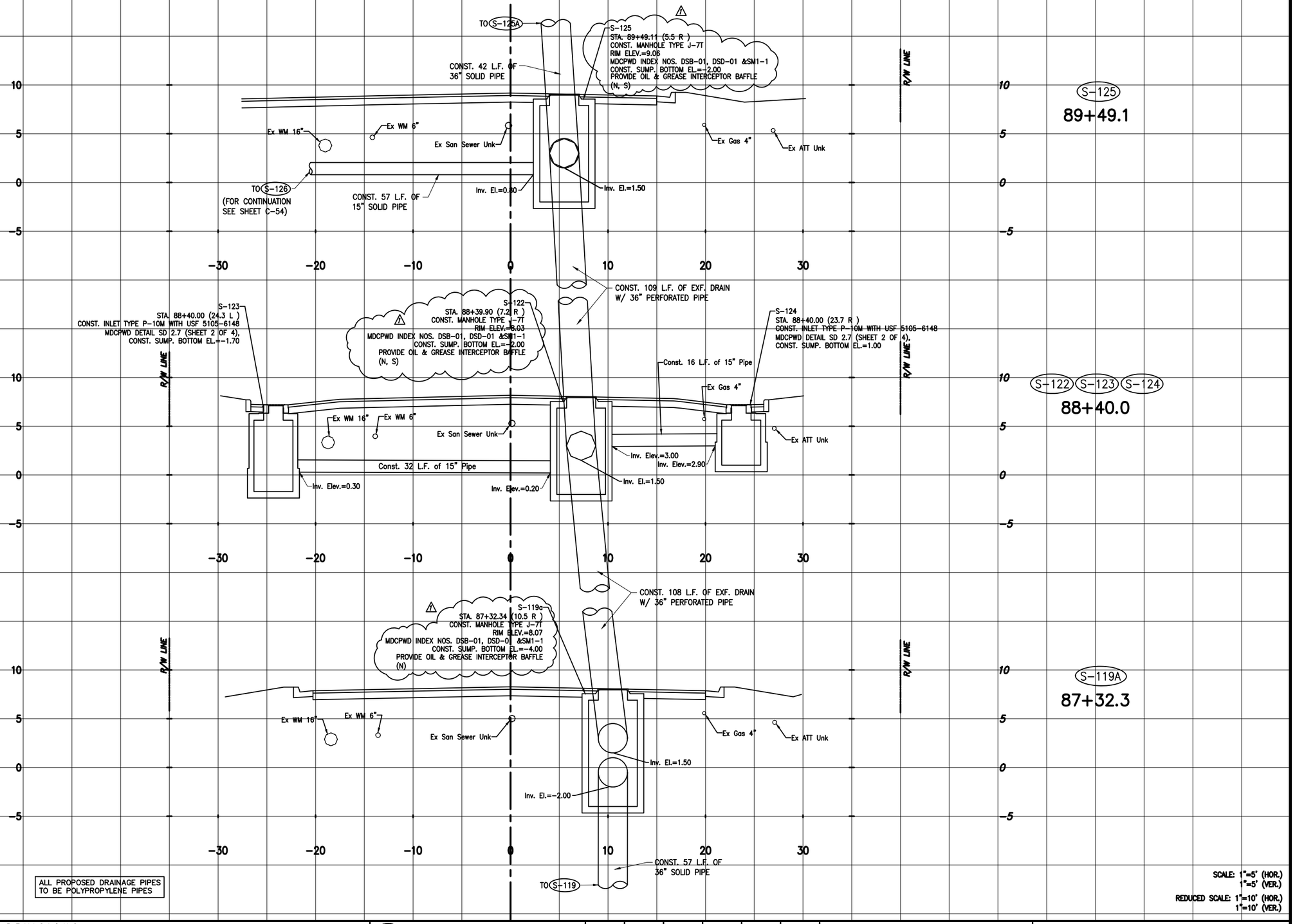
DRAINAGE STRUCTURES

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION

FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET

PROJECT NO. 20190519 SHEET C-45 OF 82



ALL PROPOSED DRAINAGE PIPES
TO BE POLYPROPYLENE PIPES

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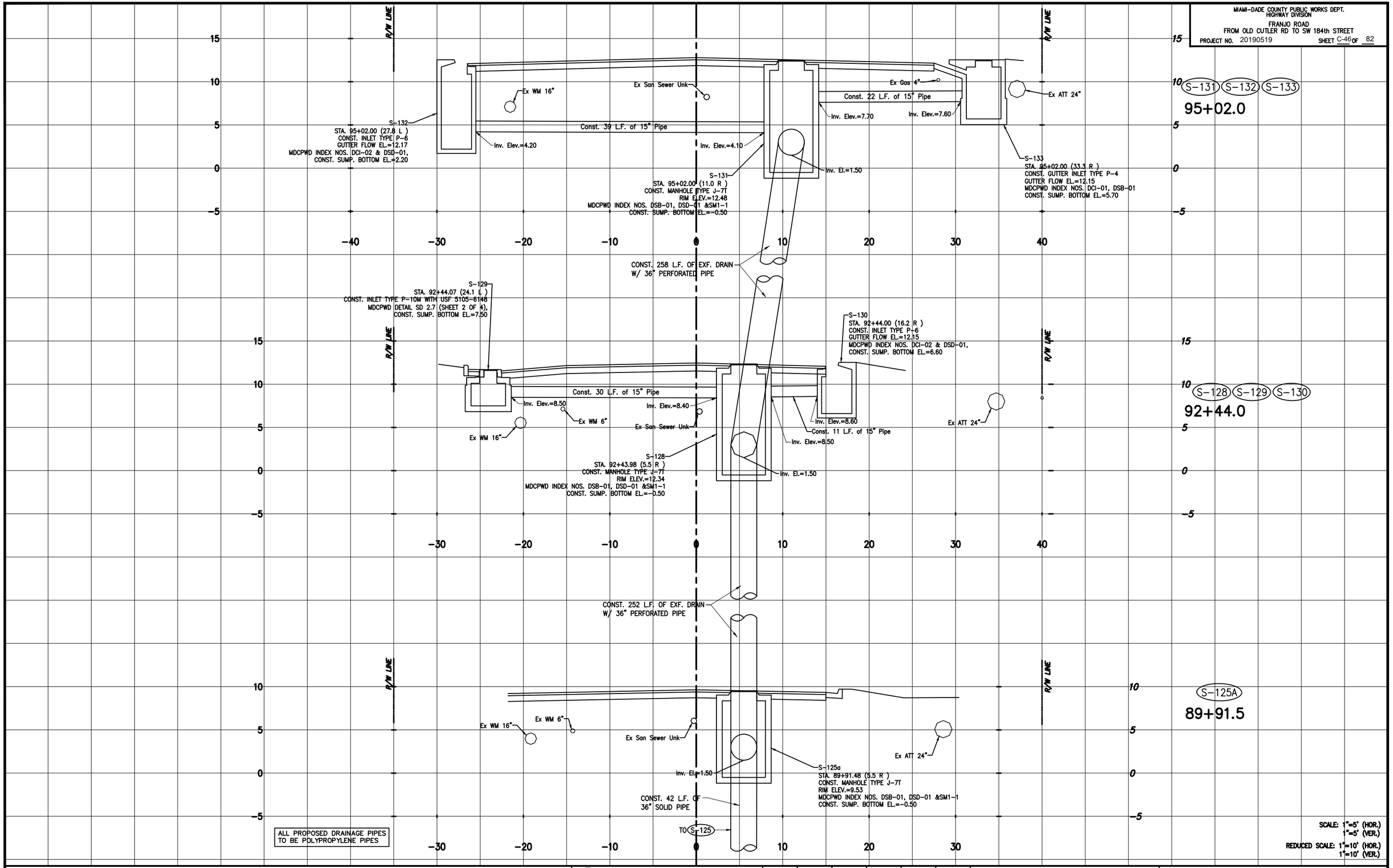
DRAINAGE STRUCTURES

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION

FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET

PROJECT NO. 20190519 SHEET C-46 OF 82



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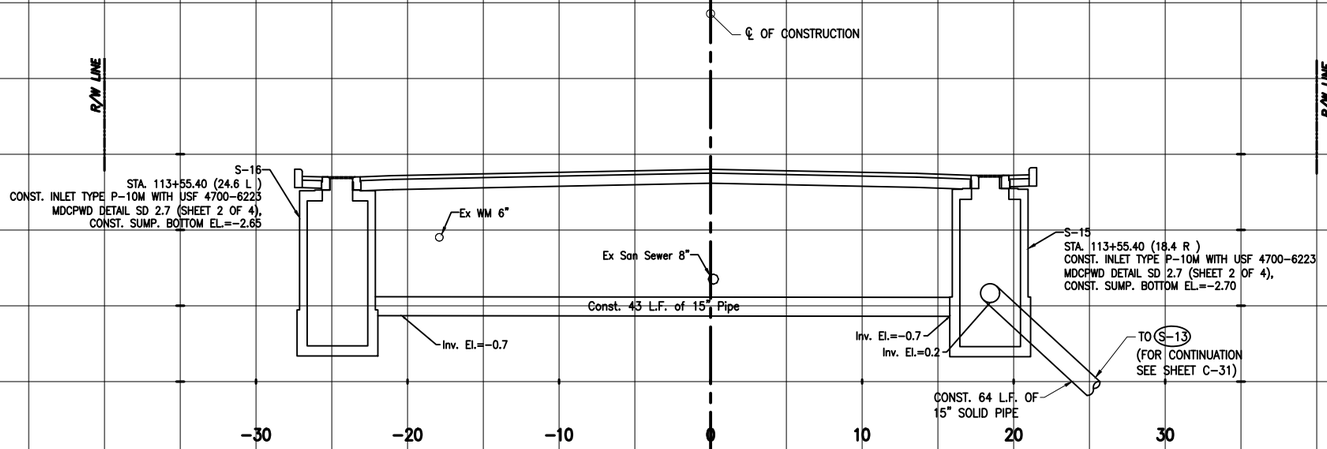
DRAINAGE STRUCTURES

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION

FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET

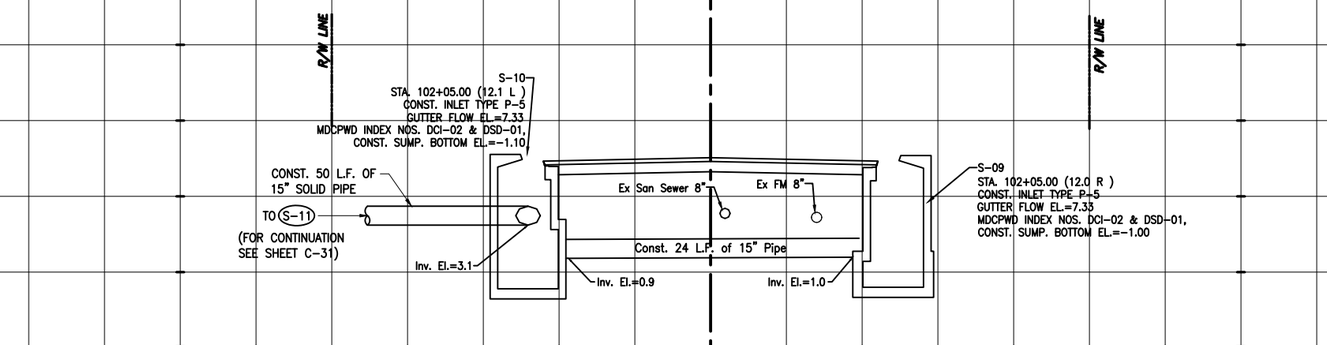
PROJECT NO. 20190519 SHEET C-47 OF 82



SW 200th ST

S-15 S-16

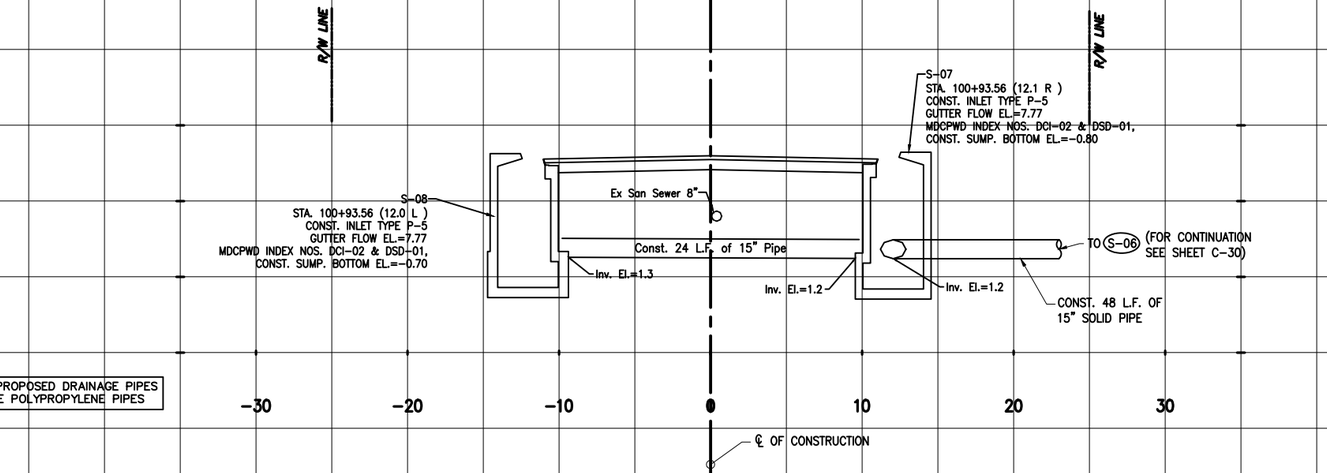
113+55.4



SW 89th CT

S-09 S-10

102+05.0



SW 89th CT

S-07 S-08

100+93.6

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

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

REVISIONS

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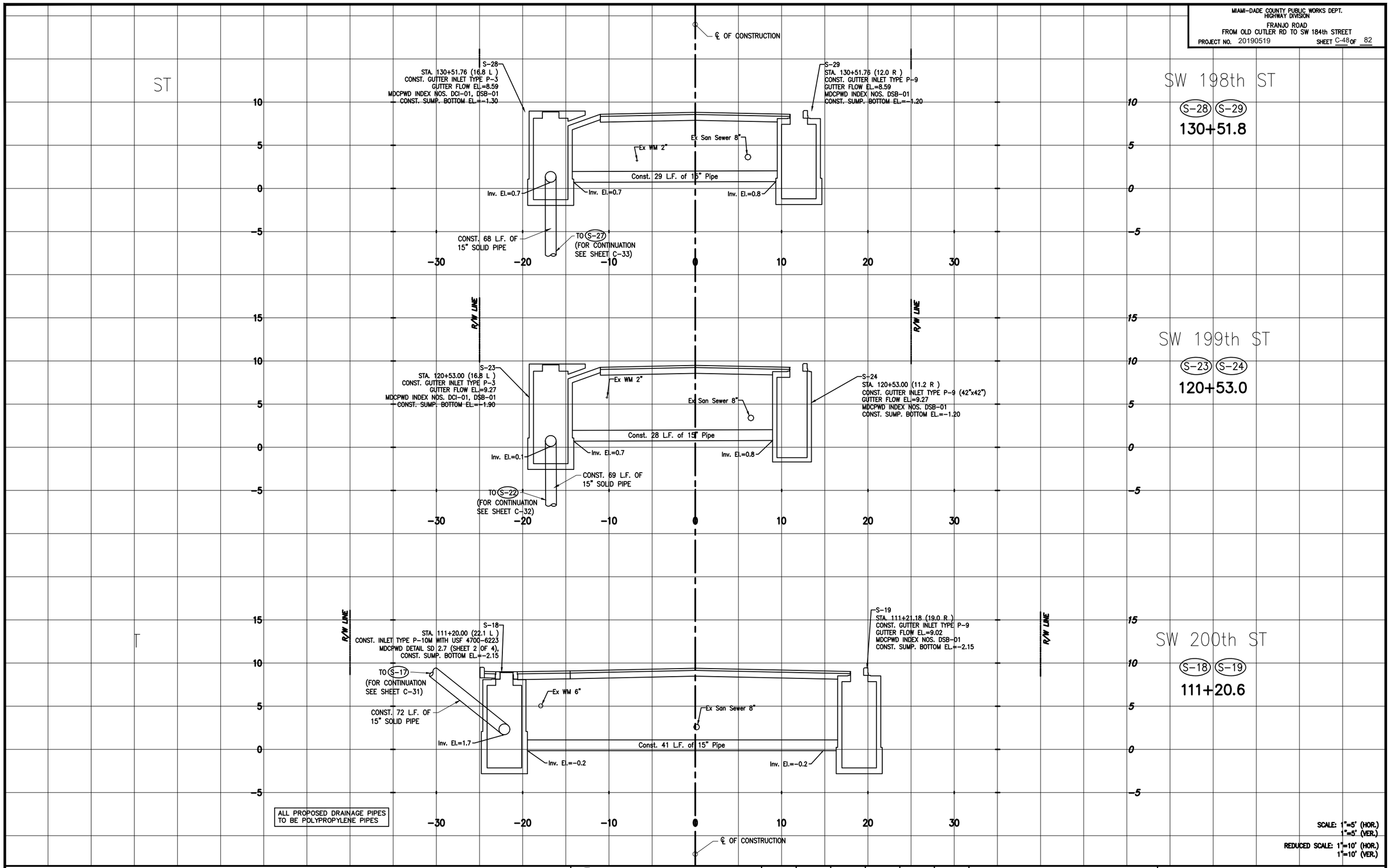
HIGHWAY DIVISION

FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET

PROJECT NO. 20190519 SHEET C-48 OF 82



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

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

REVISIONS								
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DRAINAGE STRUCTURES

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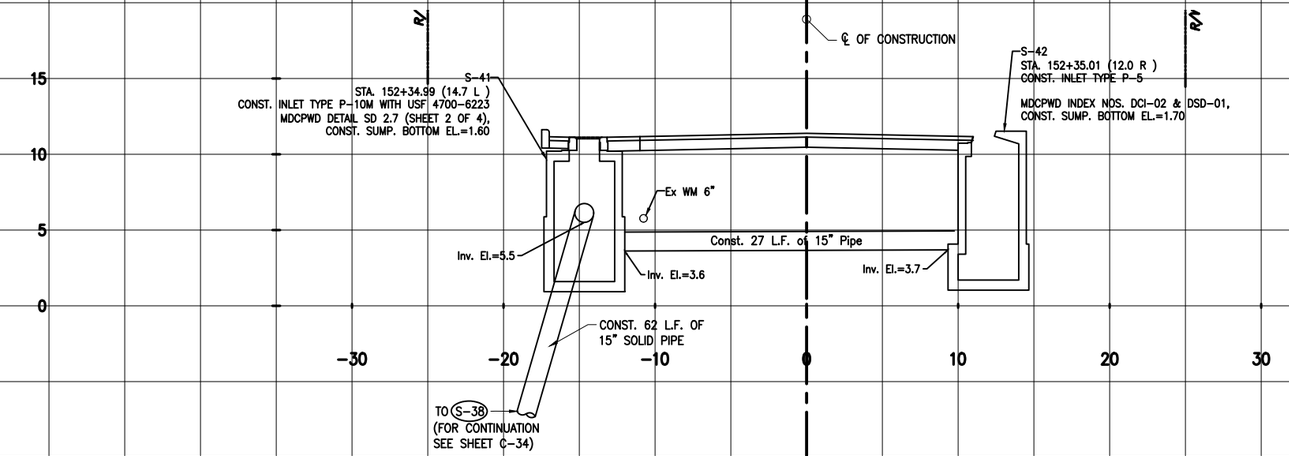
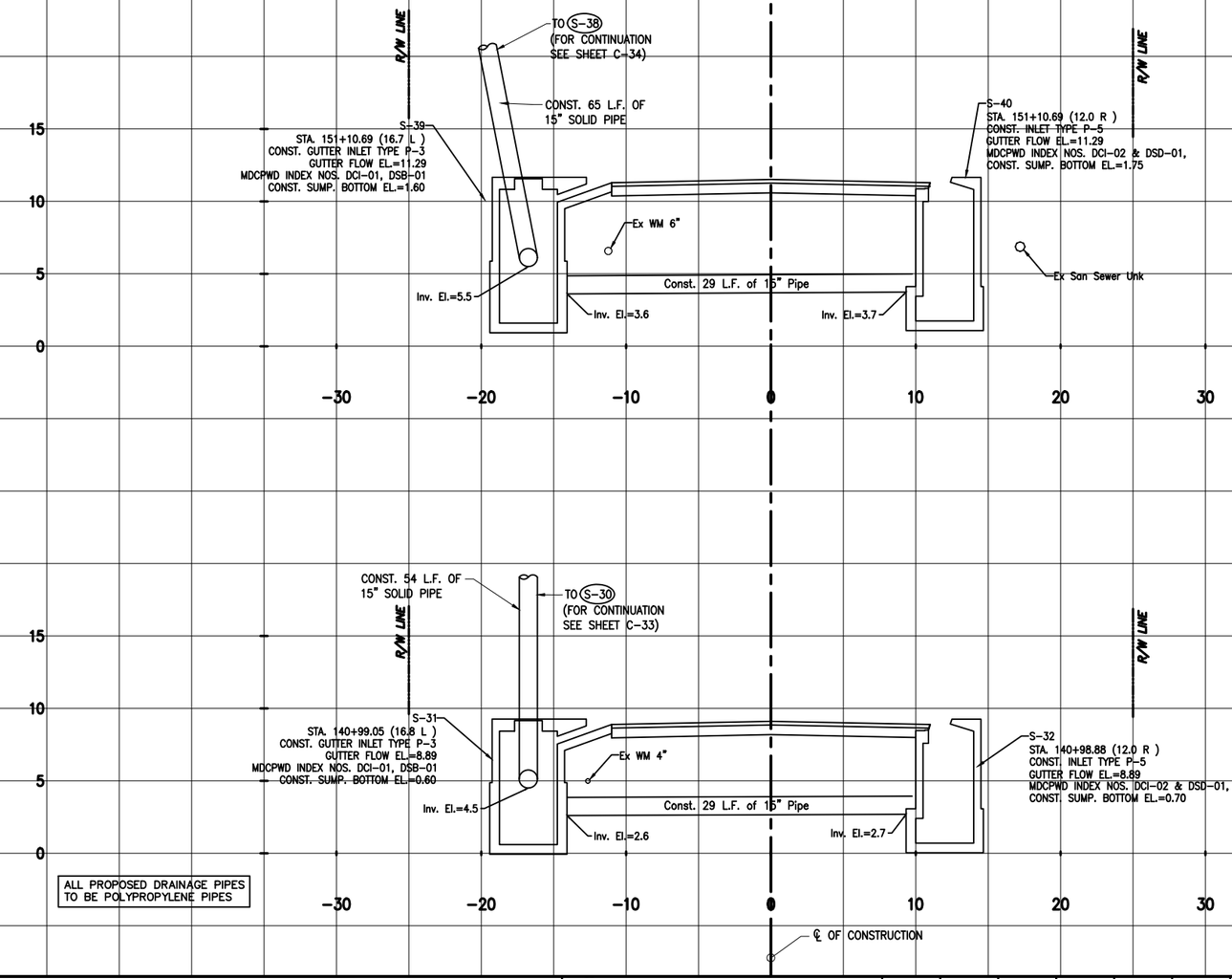
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET
PROJECT NO. 20190519 SHEET C-49 OF 82





ST

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

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

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

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	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Stantec
901 Ponce de Leon Blvd. Suite 900
Coral Gables, Florida 33134
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The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

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

SUPERVISED BY:

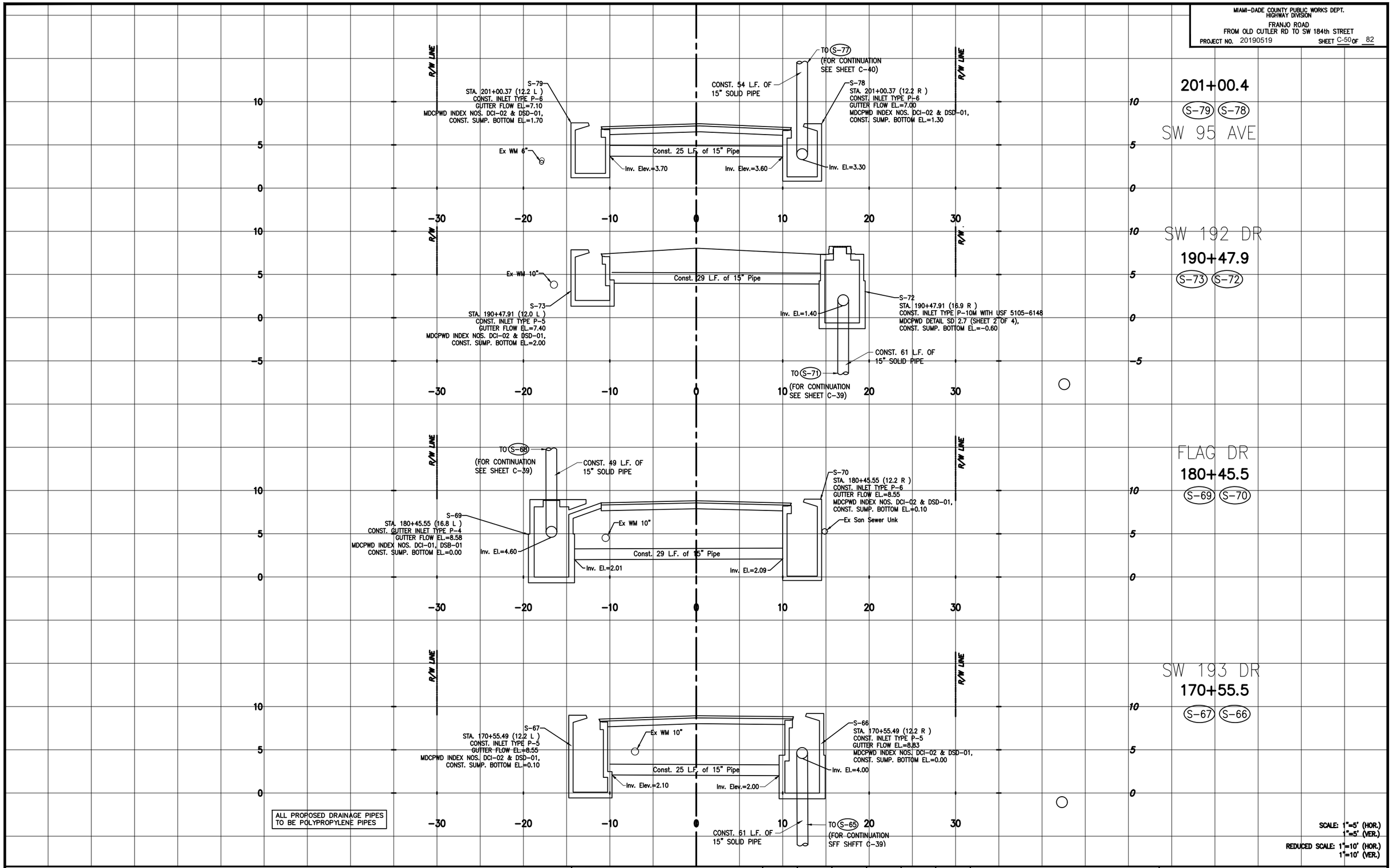
MIAMI-DADE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST.
MIAMI, FLORIDA 33128

DRAINAGE STRUCTURES

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION

FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET

PROJECT NO. 20190519 SHEET C-50 OF 82



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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SUPERVISED BY:

MIAMI-DADE COUNTY

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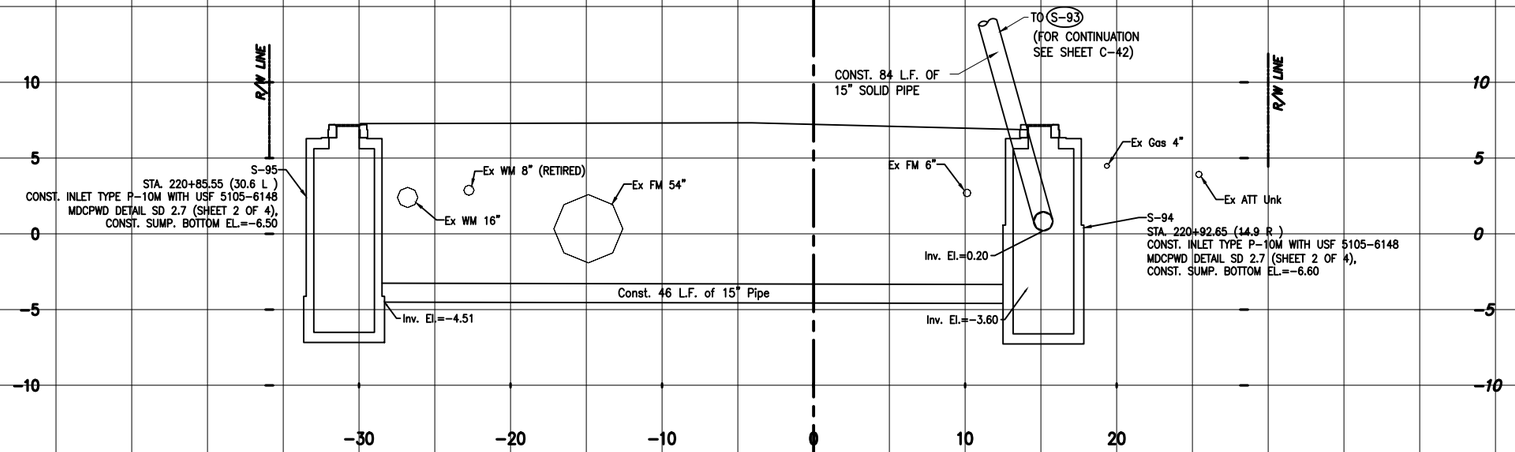
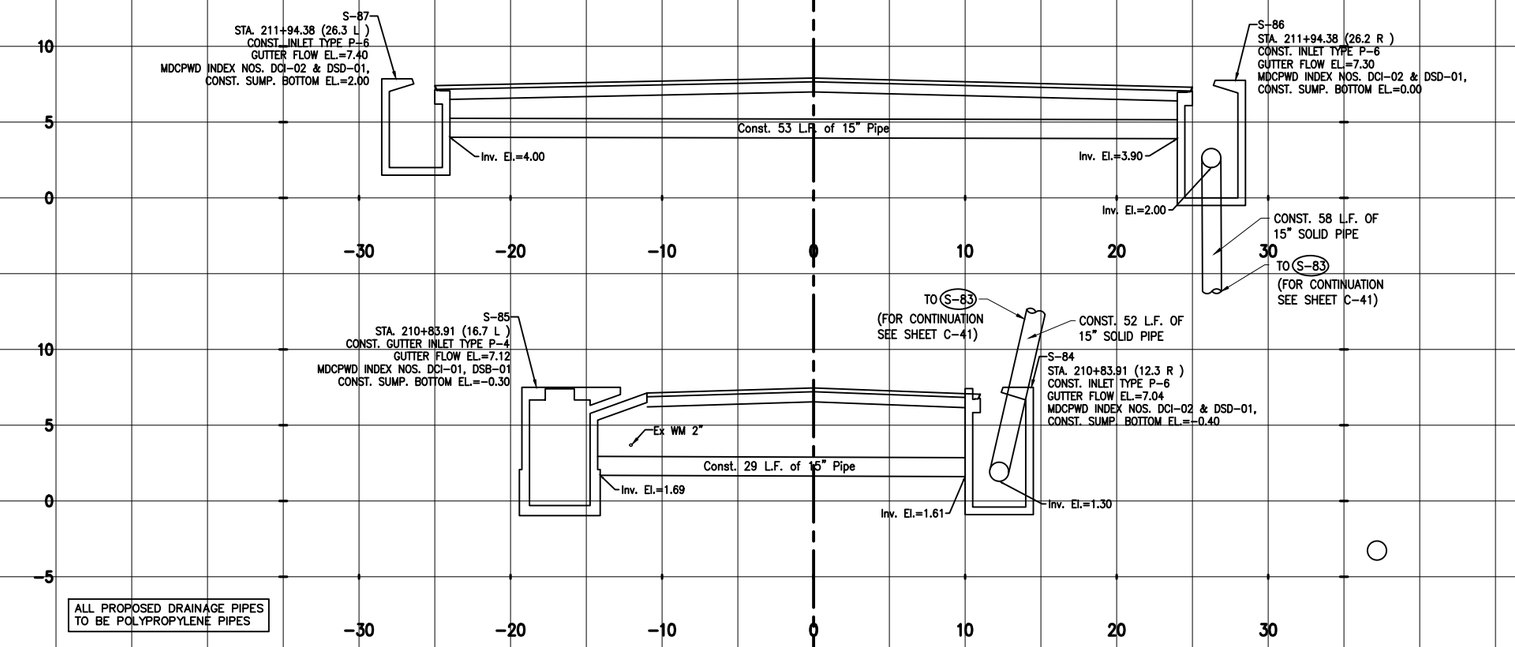
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

DRAINAGE STRUCTURES

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET
PROJECT NO. 20190519 SHEET C-51 OF 82



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

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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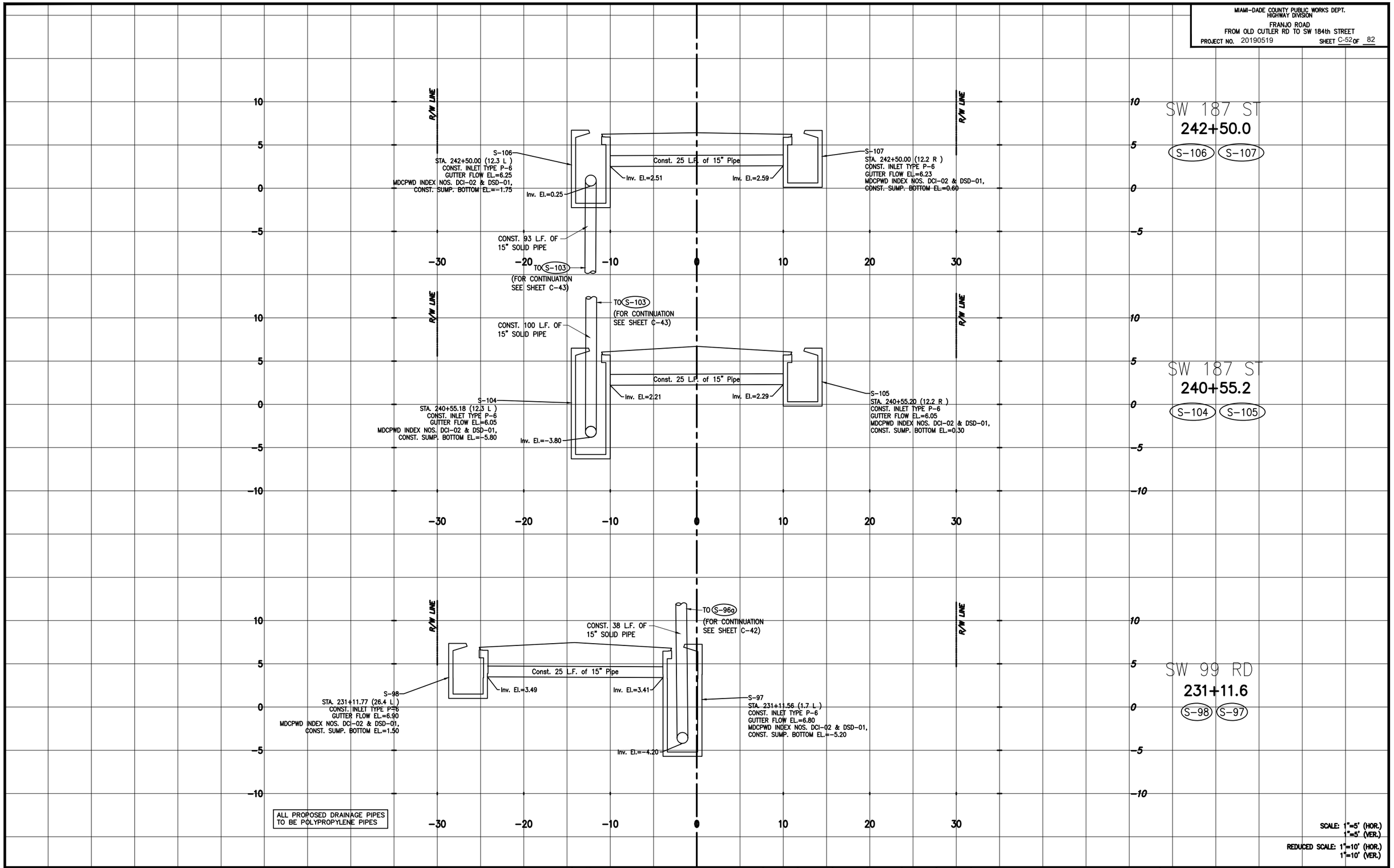
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

DRAINAGE STRUCTURES

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION

FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET

PROJECT NO. 20190519 SHEET C-52 OF 82



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

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

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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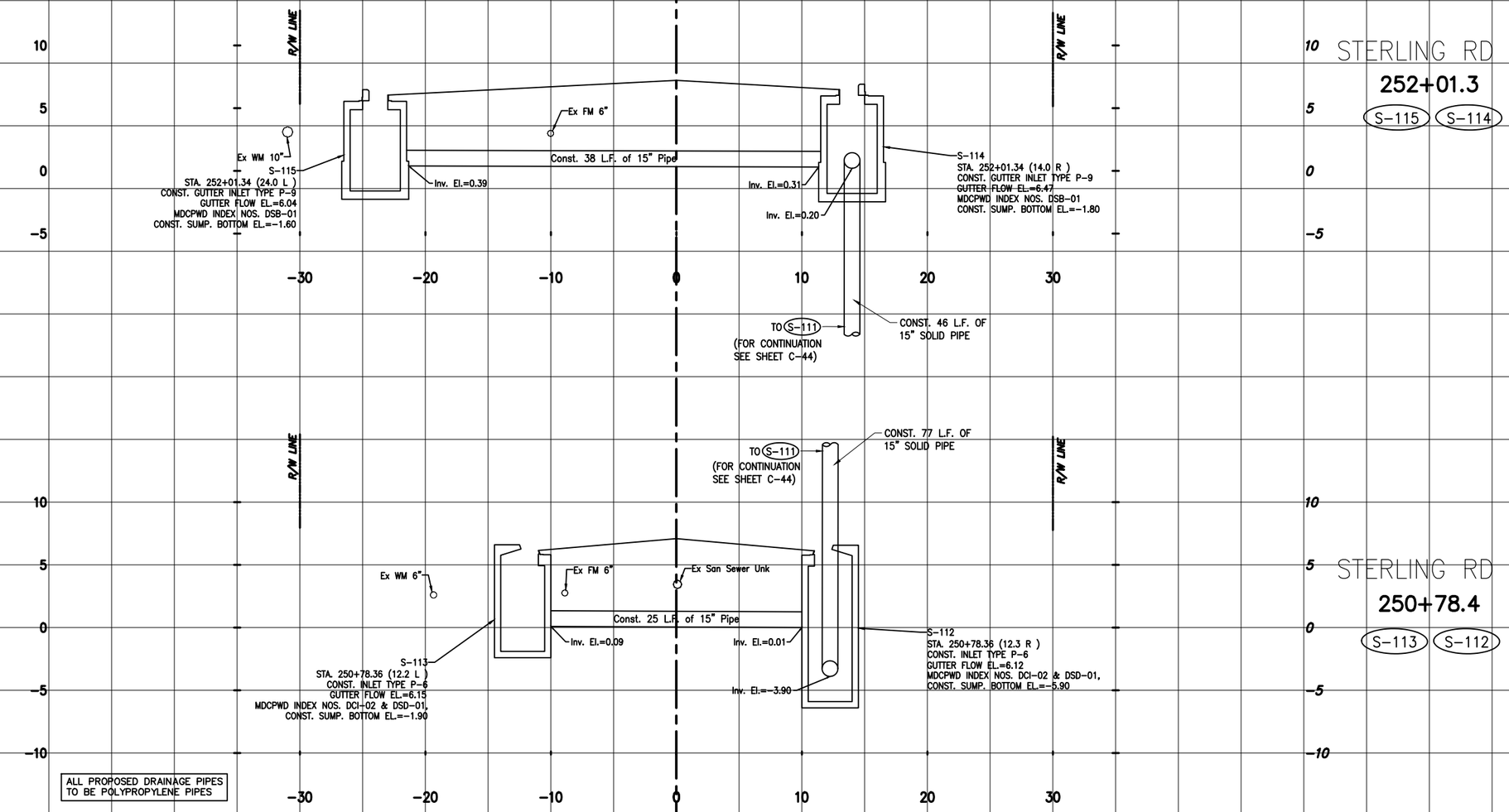
MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
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.)

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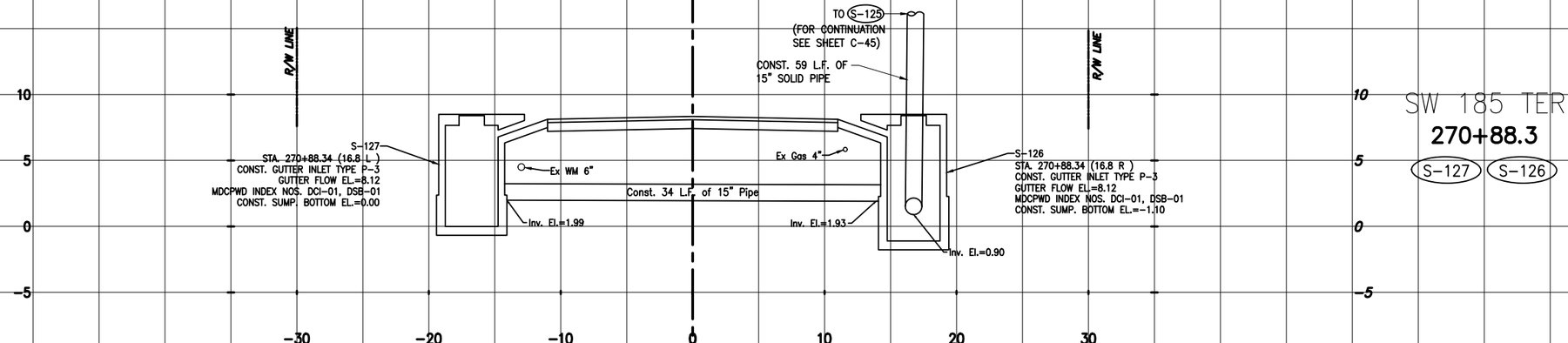
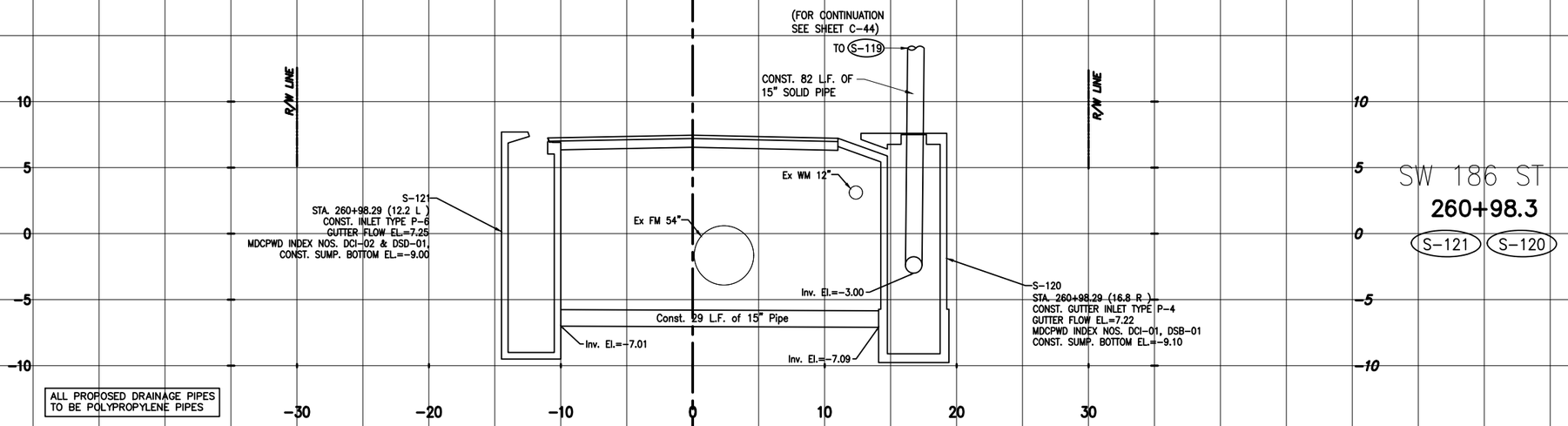
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

DRAINAGE STRUCTURES



SW 185 TER
270+88.3
S-127 S-126



SW 186 ST
260+98.3
S-121 S-120

ALL PROPOSED DRAINAGE PIPES
TO BE POLYPROPYLENE PIPES

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

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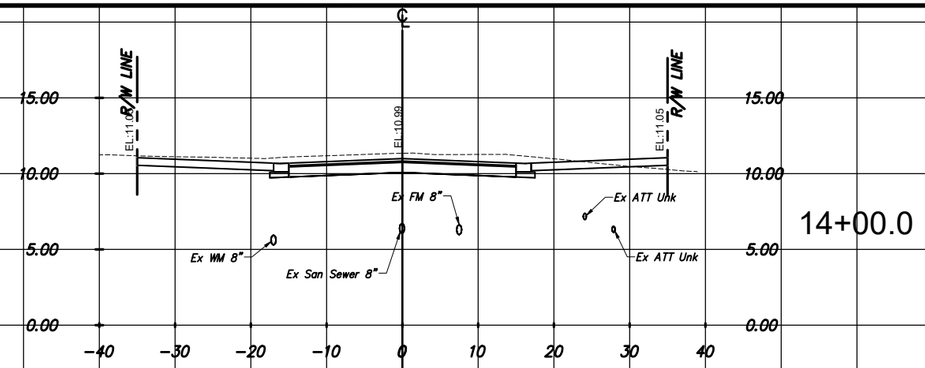
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

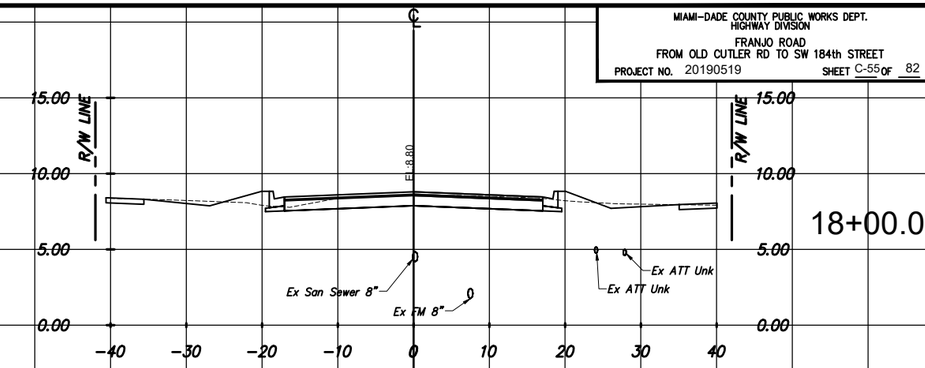
DRAINAGE STRUCTURES

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
64.9	218.1	0.1	3.5



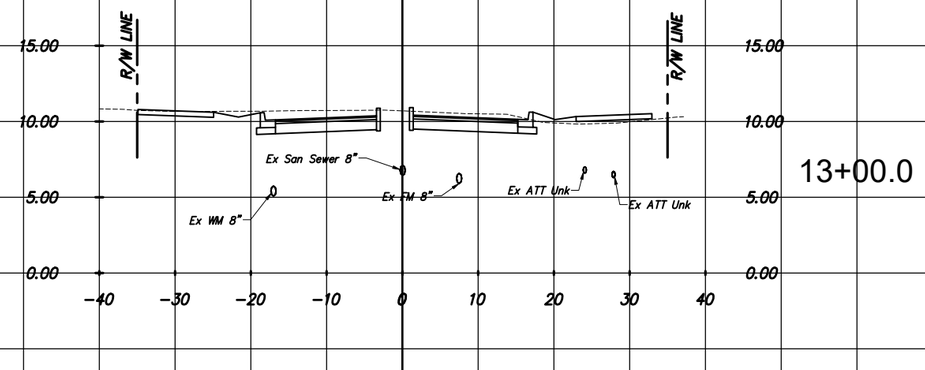
14+00.0

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
23.7	72.8	33.7	110.2



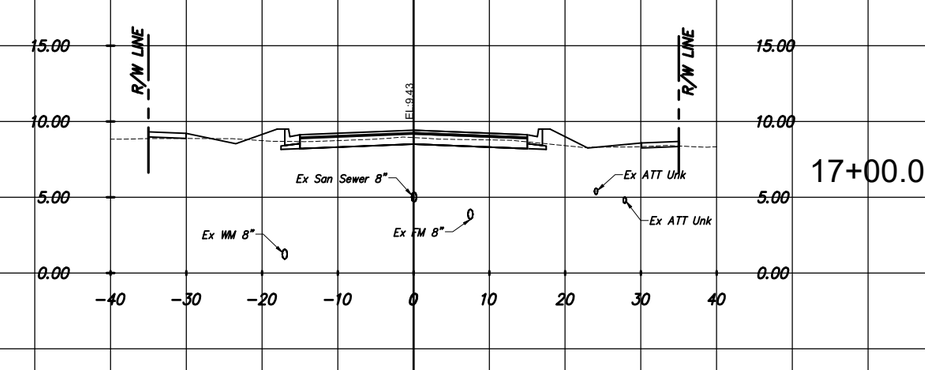
18+00.0

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
52.9	185.0	1.8	6.4



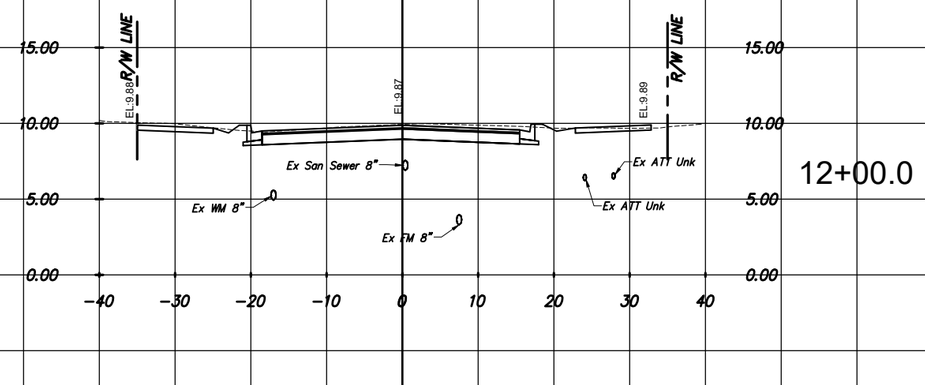
13+00.0

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
15.7	105.1	25.8	58.3



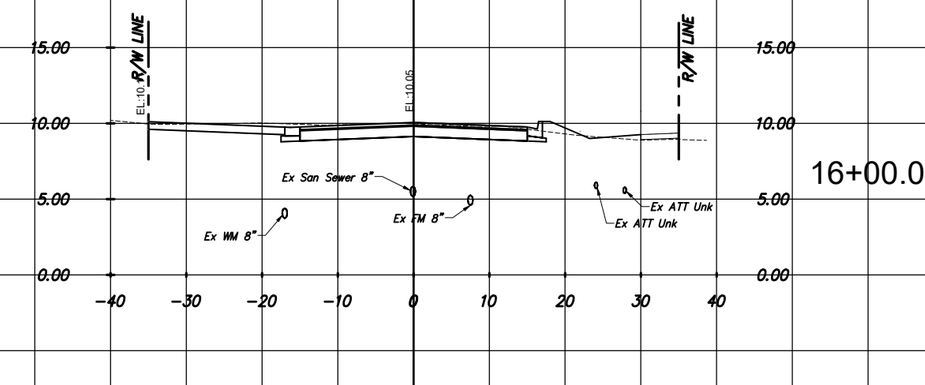
17+00.0

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
47.0	179.5	1.6	5.1



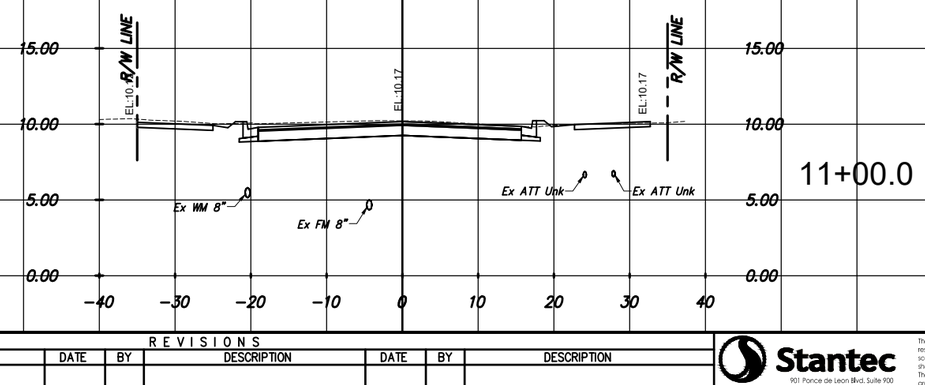
12+00.0

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
41.1	145.3	5.6	16.6



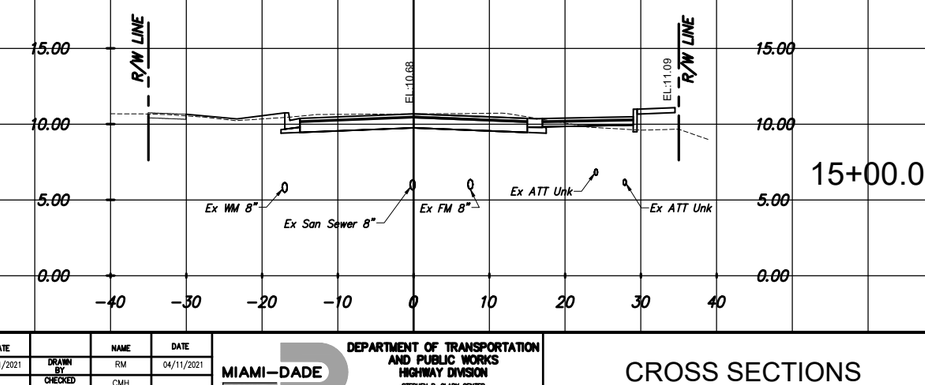
16+00.0

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
		0.0	



11+00.0

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
37.4	189.3	3.3	6.3



15+00.0

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET
PROJECT NO. 20190519 SHEET C-55 OF 82

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CHECKED BY	CMH		CHECKED BY	CMH	

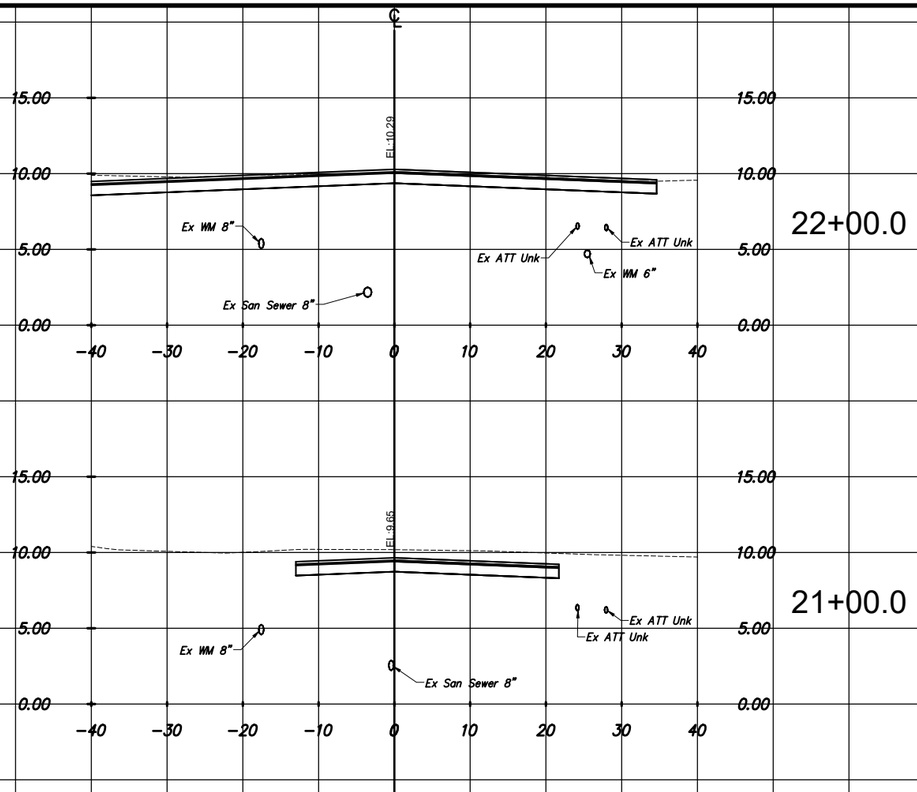
SUPERVISED BY:

MIAMI-DADE COUNTY

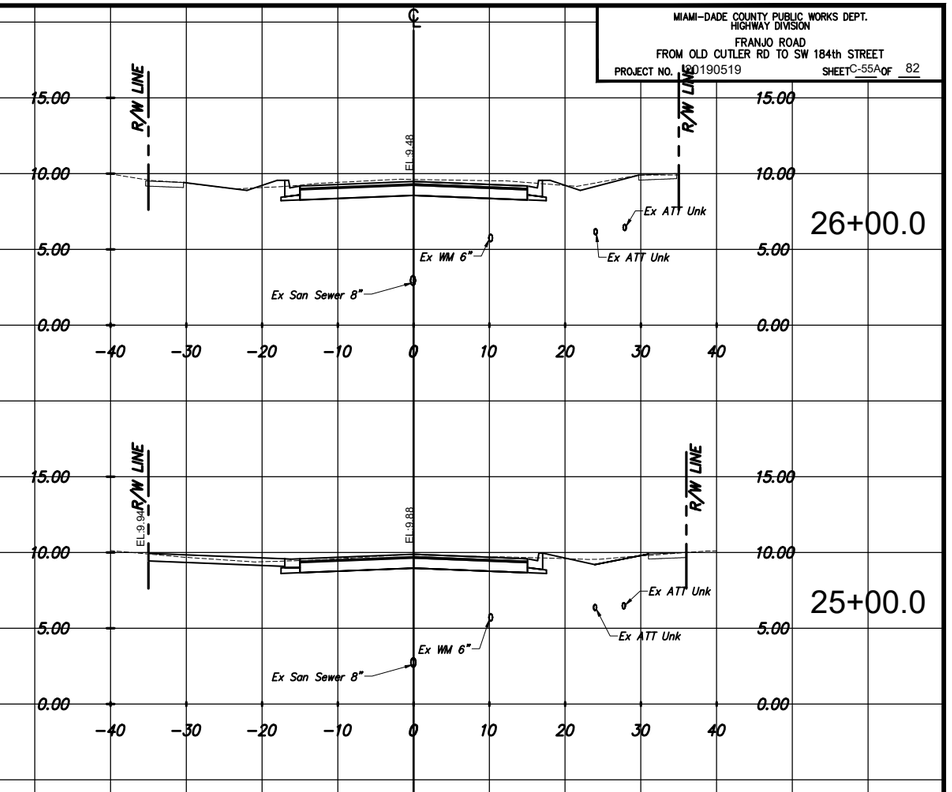
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

CROSS SECTIONS

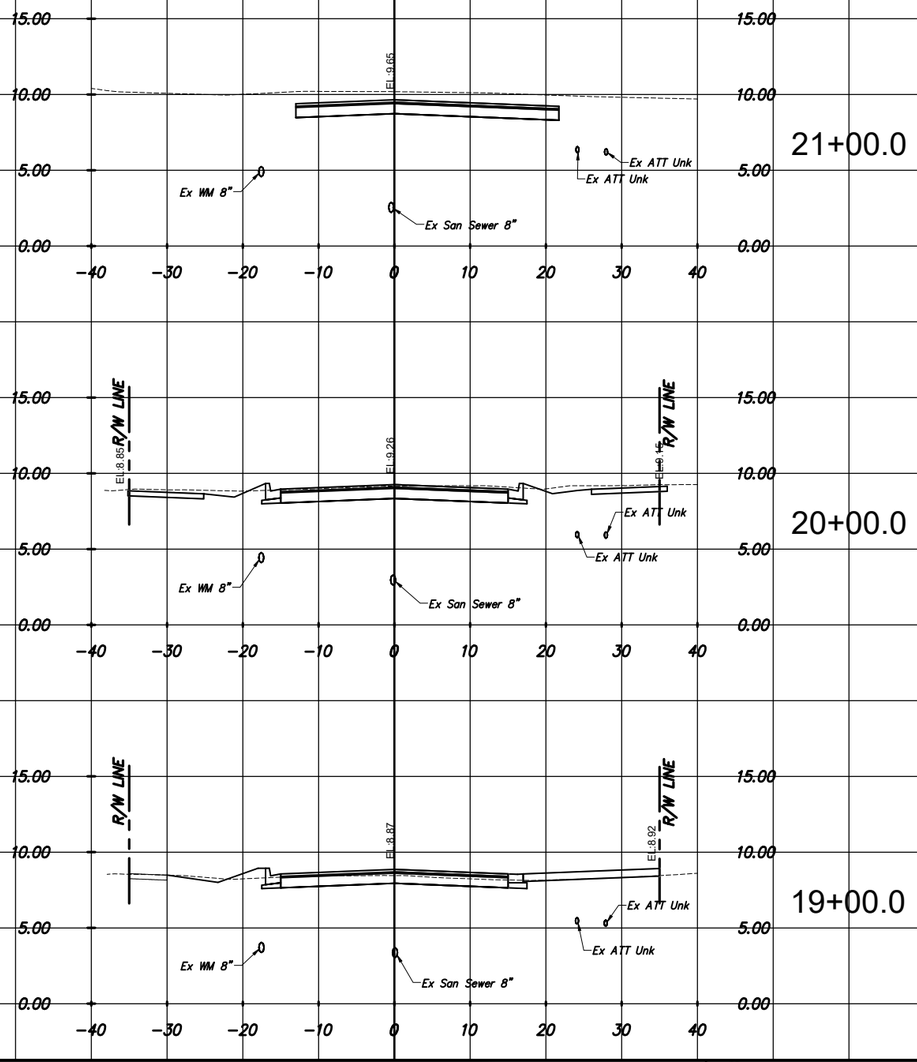
EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
68.1	279.7	8.7	16.1



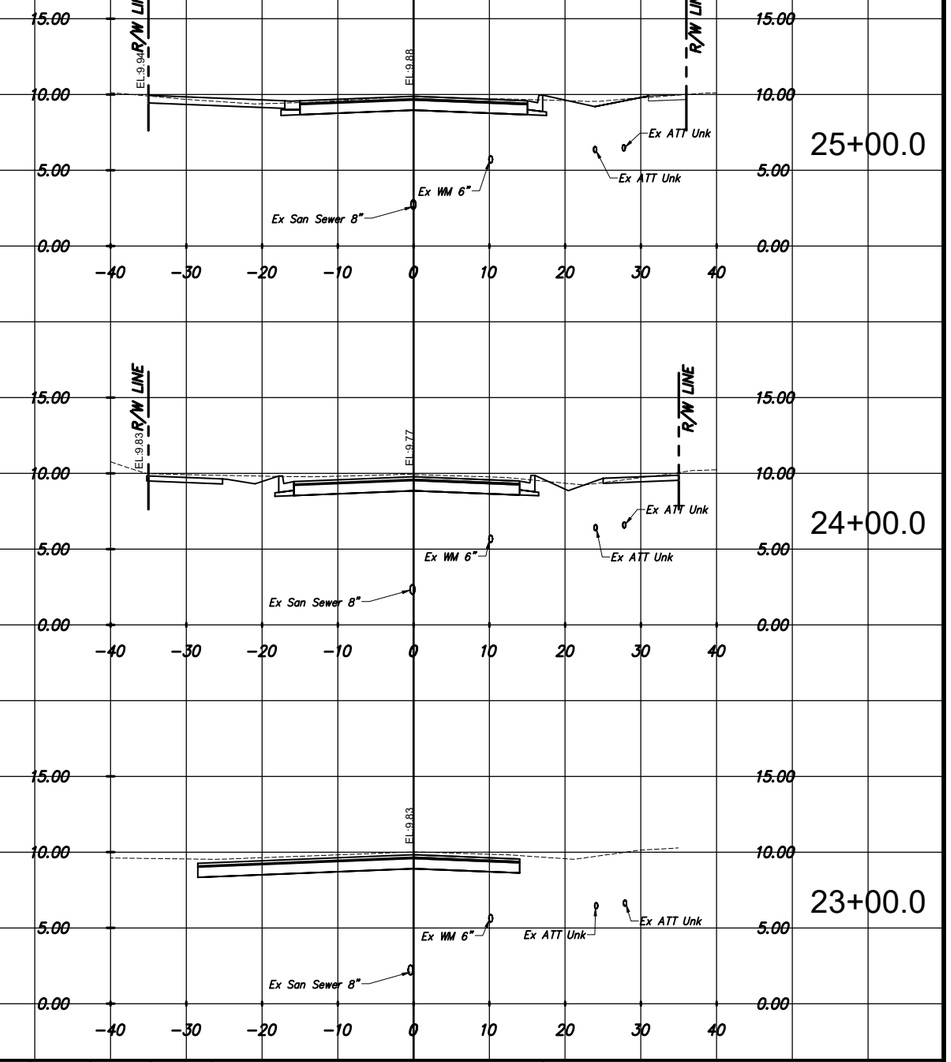
EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
42.3	160.5	1.9	10.9



82.9	234.8	0.0	8.1



44.3	197.7	4.0	9.6



43.9	120.4	4.4	42.0

62.5	260.2	1.2	2.1

21.2	83.0	18.3	96.3

78.1	270.7	0.0	16.1

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET
PROJECT NO. 650190519 SHEET C-55A OF 82

REVISIONS

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CHECKED BY	CMH		CHECKED BY	CMH	

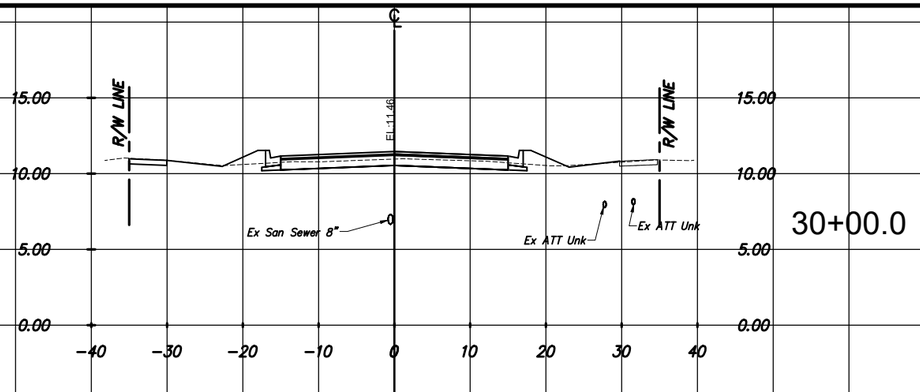
SUPERVISED BY:

MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

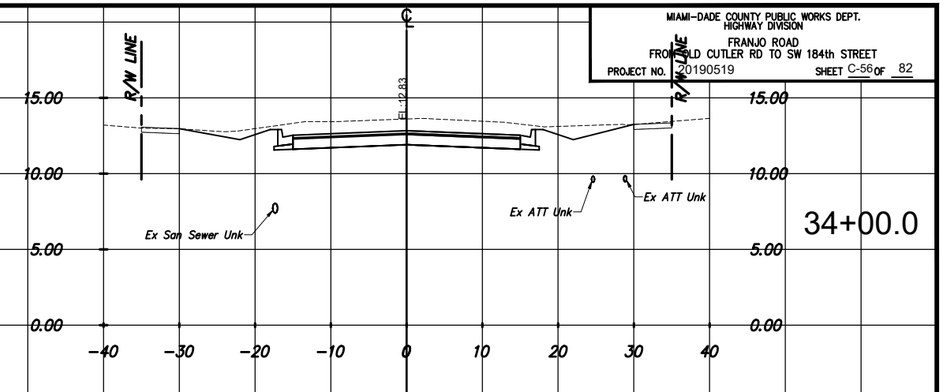
CROSS SECTIONS

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
17.4	166.8	23.2	43.9



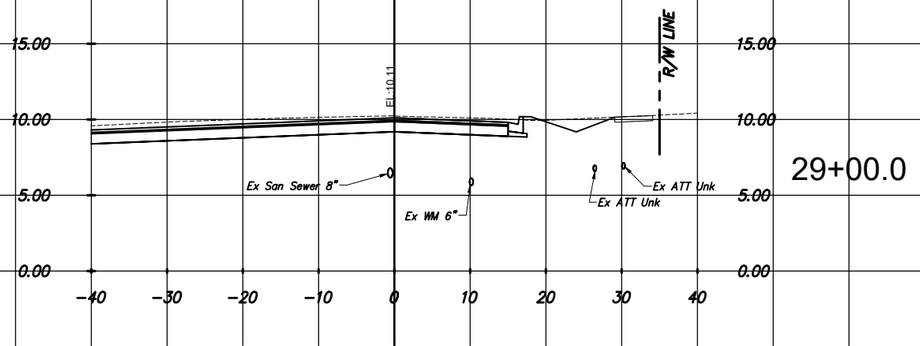
30+00.0

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
74.1	278.0	0.0	0.0



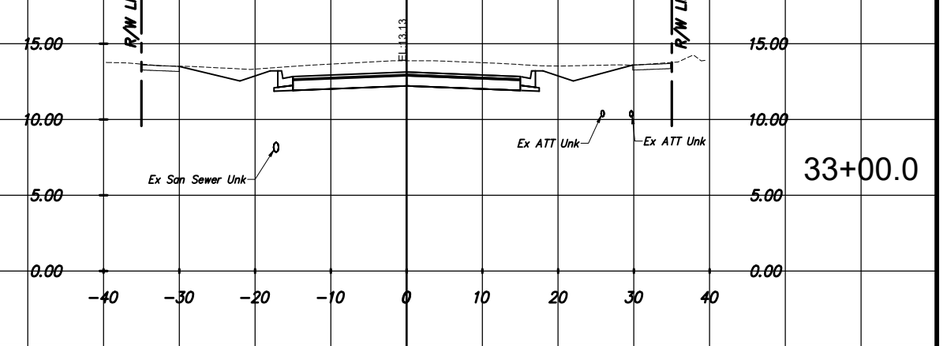
34+00.0

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
72.7	308.9	0.5	1.2



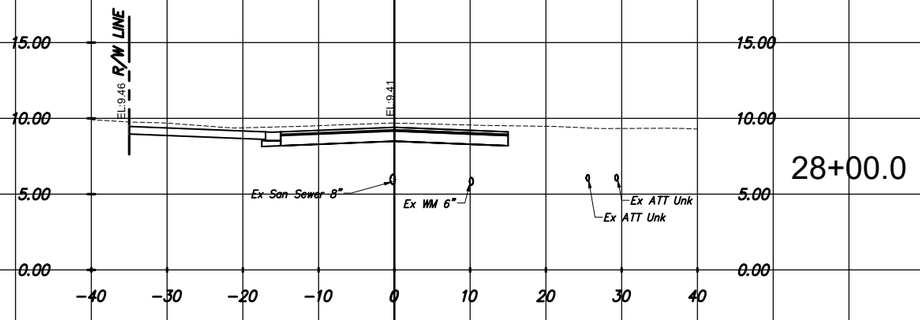
29+00.0

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
76.1	324.6	0.0	0.0



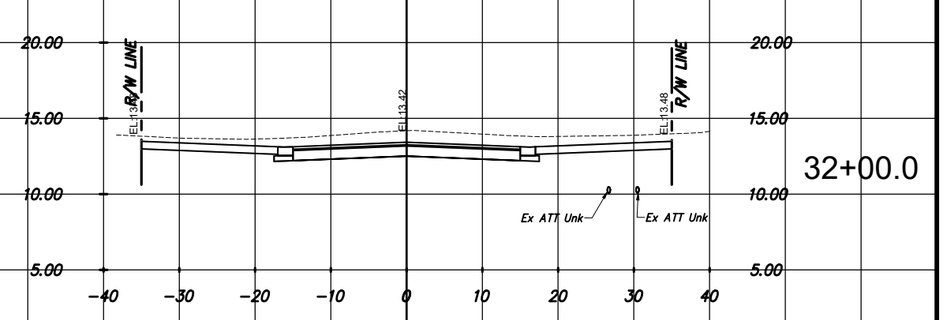
33+00.0

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
94.1	284.3	0.1	0.4



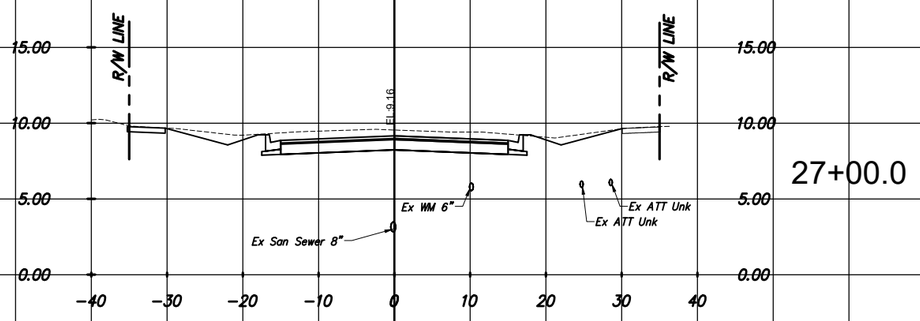
28+00.0

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
99.2	242.3	0.0	10.1



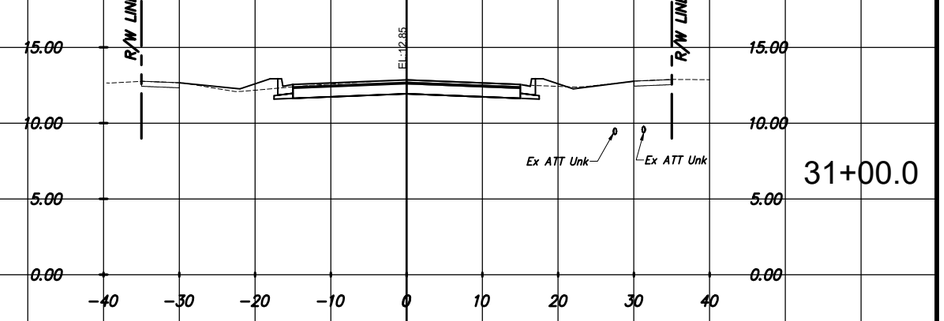
32+00.0

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
59.4	188.4	0.1	3.7



27+00.0

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
31.7	90.9	5.4	53.0



31+00.0

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION

FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET

PROJECT NO. 20190519 SHEET C-56 OF 82

REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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

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DESIGNED BY	CMH	04/11/2021	DRAWN BY	RM	04/11/2021
CHECKED BY	CMH		CHECKED BY	CMH	

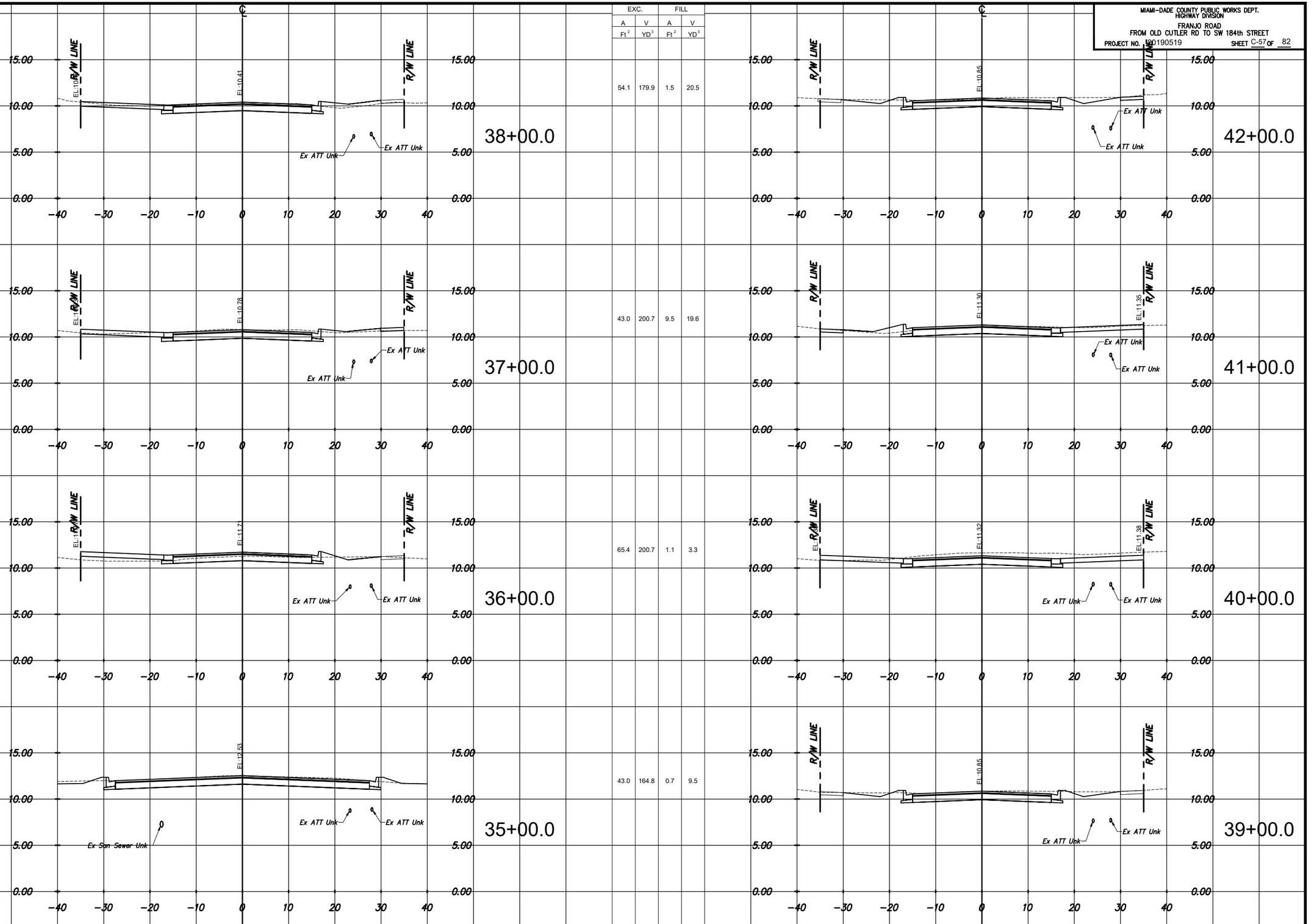
SUPERVISED BY:

MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

CROSS SECTIONS

EXC. A Ft²	EXC. V YD³	FILL A Ft²	FILL V YD³	
46.0	172.2	4.4	11.6	38+00.0
47.0	127.0	1.8	41.7	37+00.0
21.6	150.5	20.7	43.2	36+00.0
59.7	247.7	2.6	4.9	35+00.0
54.1	179.9	1.5	20.5	42+00.0
43.0	200.7	9.5	19.6	41+00.0
65.4	200.7	1.1	3.3	40+00.0
43.0	164.8	0.7	9.5	39+00.0



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HIGHWAY DIVISION
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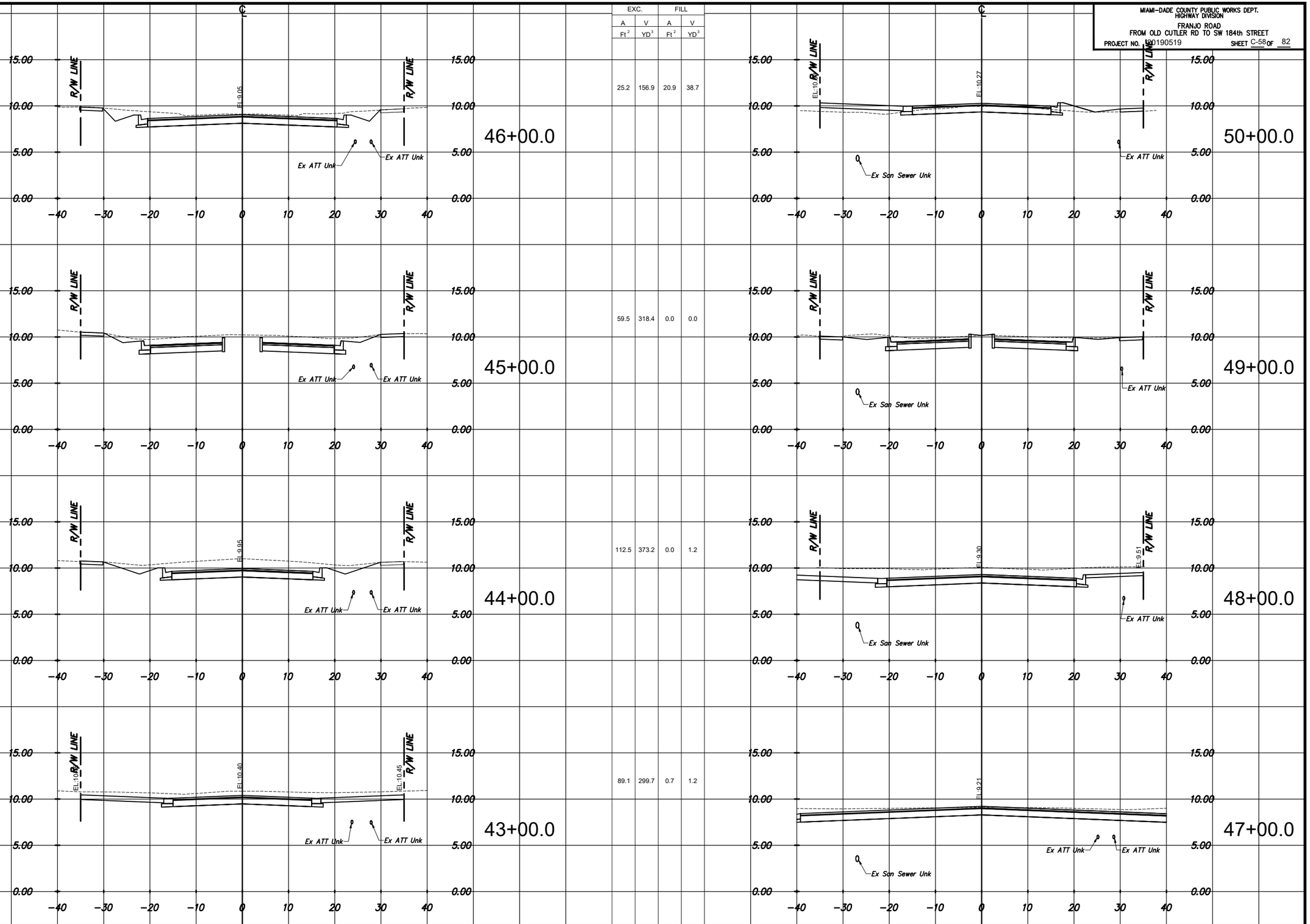
CROSS SECTIONS

EXC. A Ft²	EXC. V YD³	FILL A Ft²	FILL V YD³	
72.8	296.1	0.0	0.0	46+00.0
87.1	328.3	0.0	0.0	45+00.0
90.2	342.3	0.0	0.0	44+00.0
94.7	275.6	0.0	2.9	43+00.0
25.2	156.9	20.9	38.7	50+00.0
59.5	318.4	0.0	0.0	49+00.0
112.5	373.2	0.0	1.2	48+00.0
89.1	299.7	0.7	1.2	47+00.0



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HIGHWAY DIVISION
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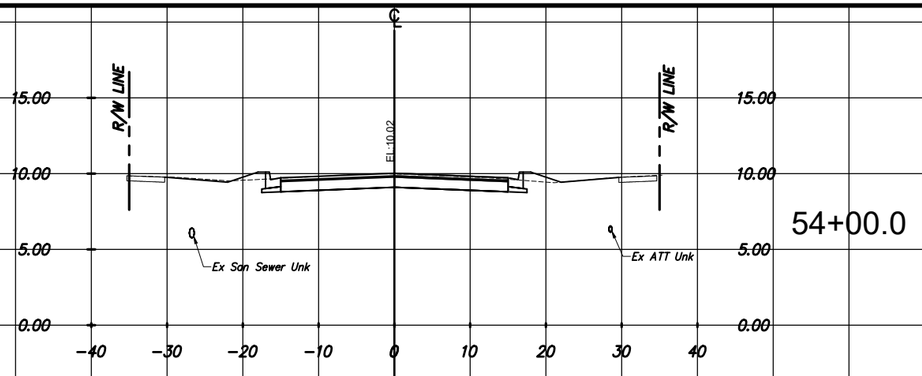
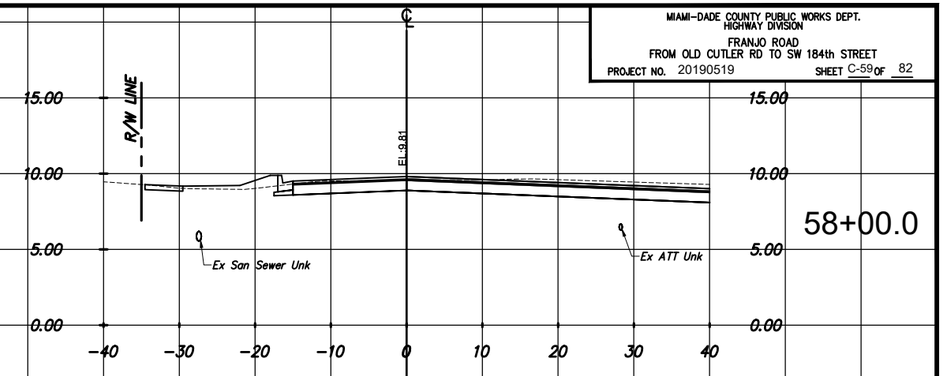
CROSS SECTIONS

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
32.9	145.8	4.7	16.4



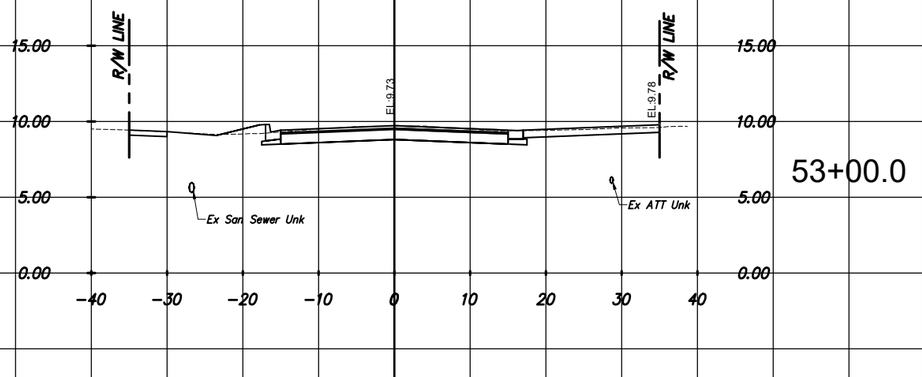
54+00.0

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
57.0	241.9	7.2	13.3



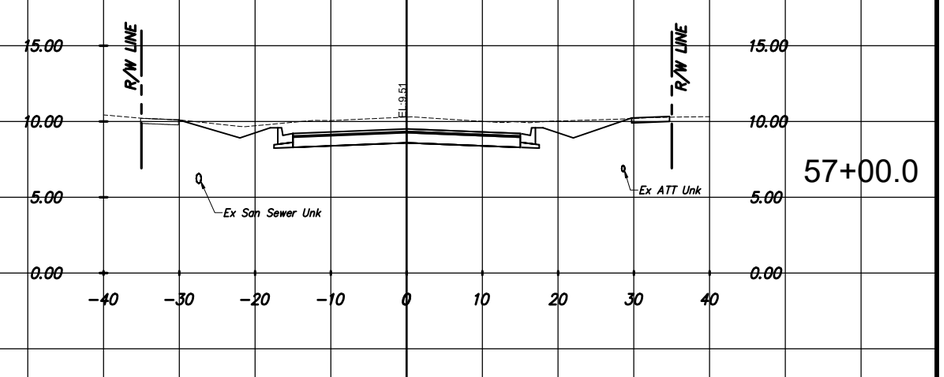
58+00.0

45.8	150.4	4.1	13.9



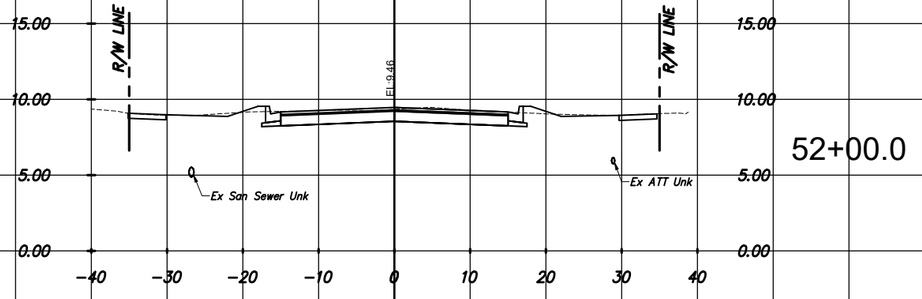
53+00.0

73.7	269.0	0.0	0.5



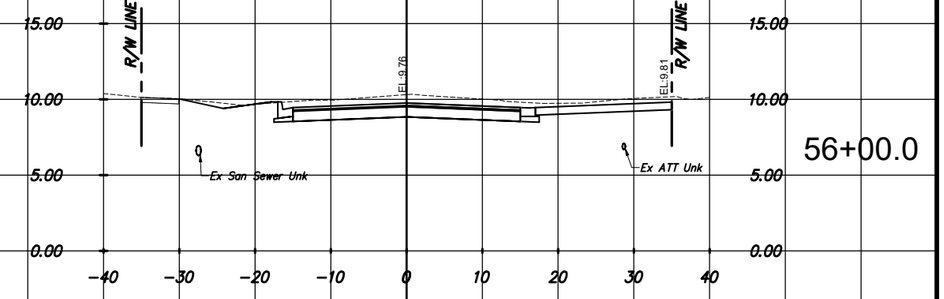
57+00.0

35.4	112.2	3.4	37.5



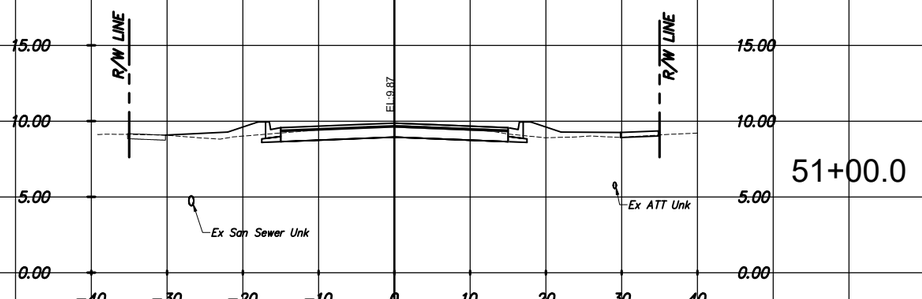
52+00.0

71.6	210.8	0.3	3.2



56+00.0

25.2	93.4	16.9	69.9



51+00.0

42.3	139.2	1.4	11.4

55+00.0

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET
PROJECT NO. 20190519 SHEET C-59 OF 82

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

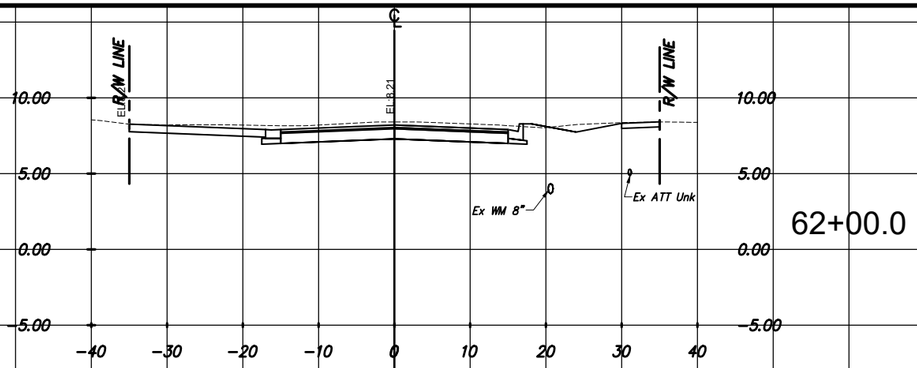
CROSS SECTIONS

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION

FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET

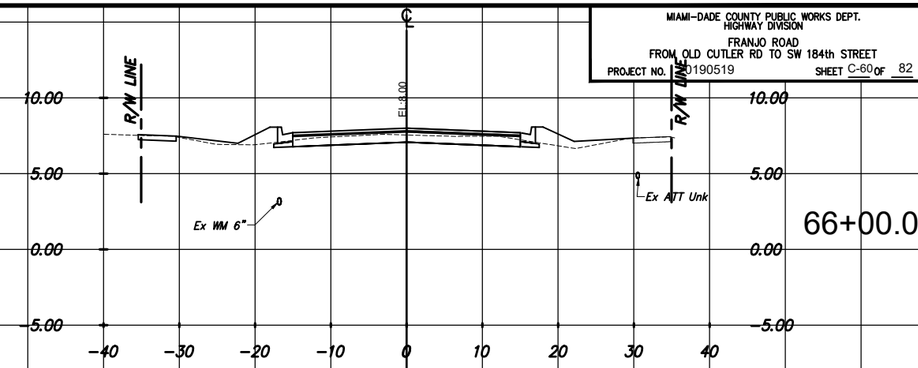
PROJECT NO. 30190519 SHEET C-60 OF 82

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
62.0	228.5	0.6	2.3



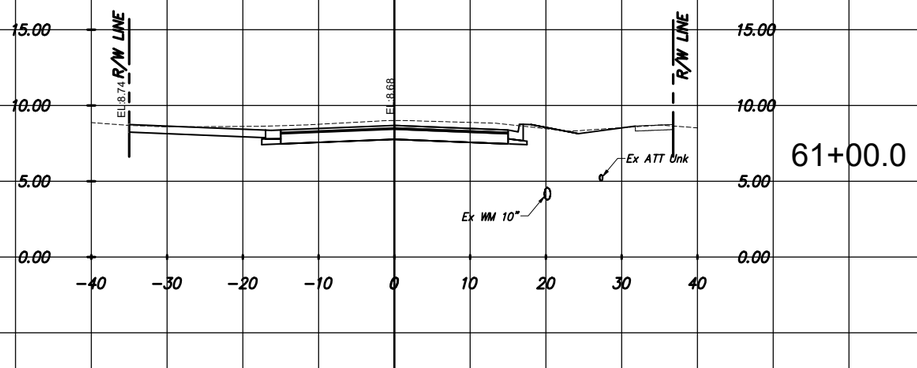
62+00.0

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
18.6	62.5	26.3	115.6



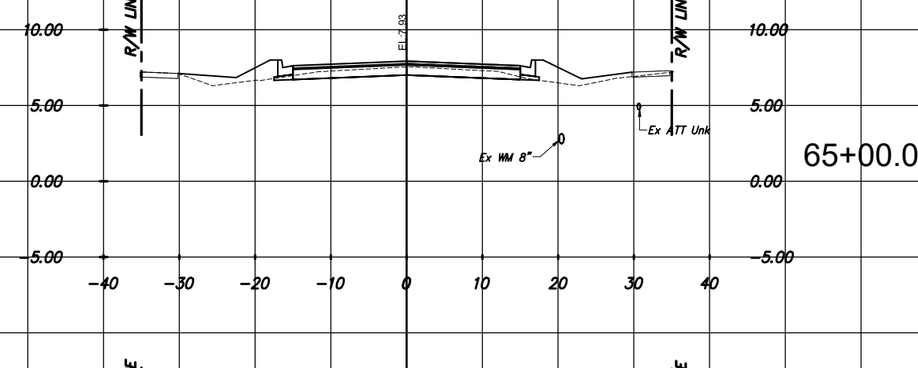
66+00.0

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
61.4	193.0	0.6	6.4



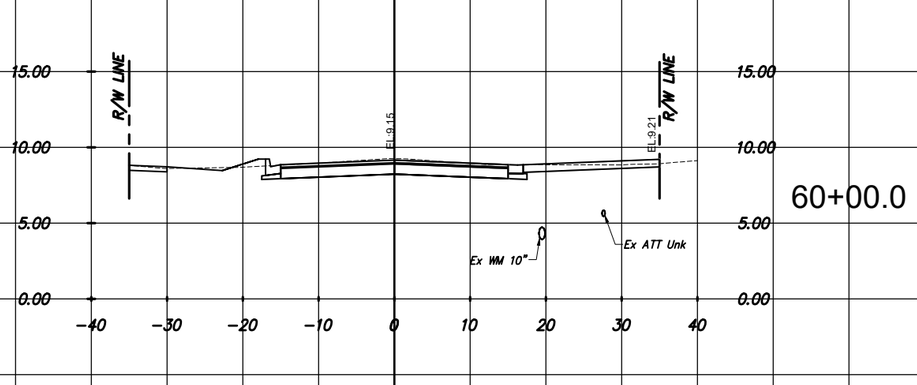
61+00.0

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
15.2	90.6	36.2	74.7



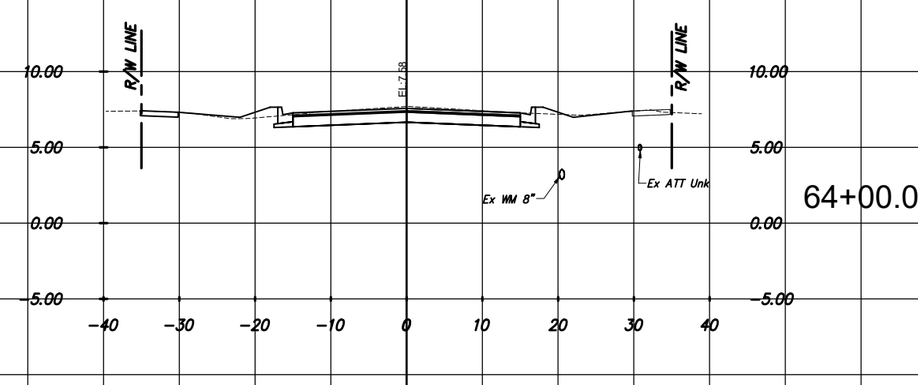
65+00.0

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
42.8	132.4	2.9	35.5



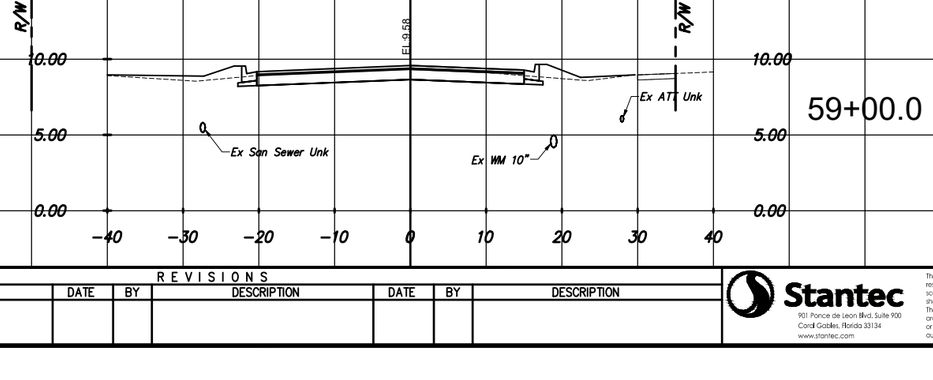
60+00.0

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
33.8	139.5	4.1	10.8



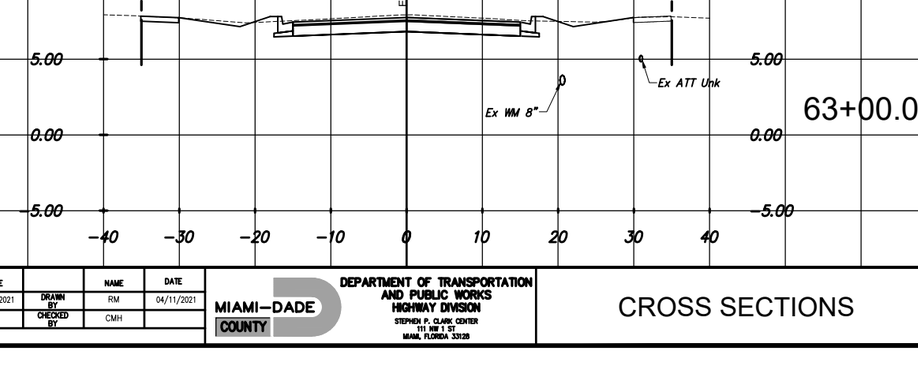
64+00.0

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
28.7	158.5	16.3	43.6



59+00.0

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
41.6	191.7	1.7	4.3



63+00.0

REVISIONS								
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HIGHWAY DIVISION
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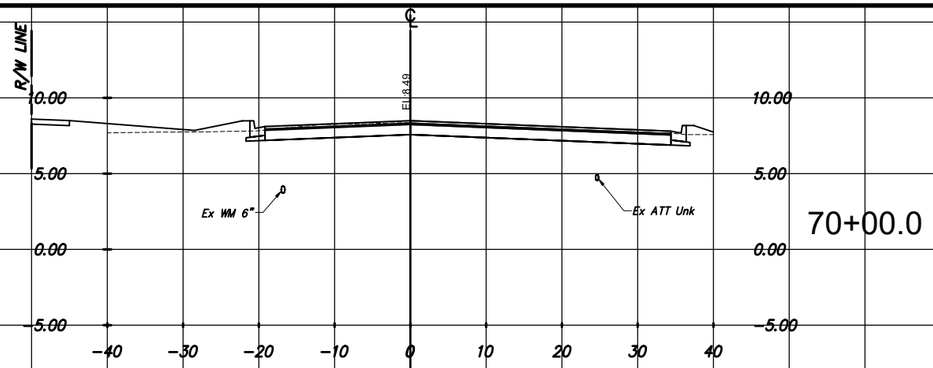
CROSS SECTIONS

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION

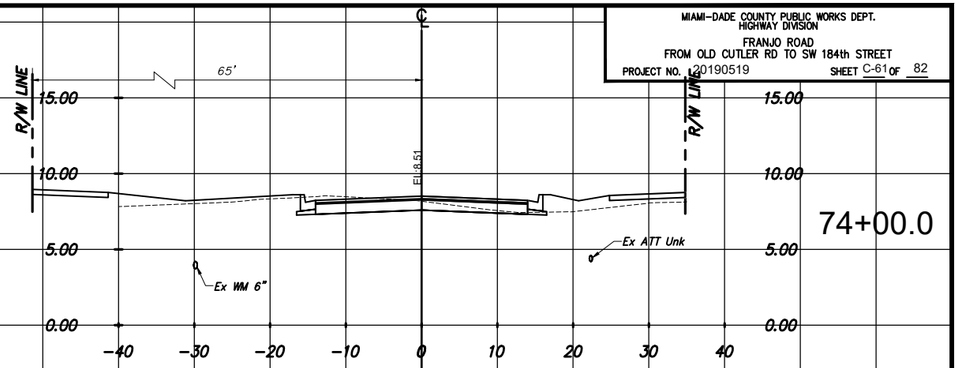
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET

PROJECT NO. 20190519 SHEET C-61 OF 82

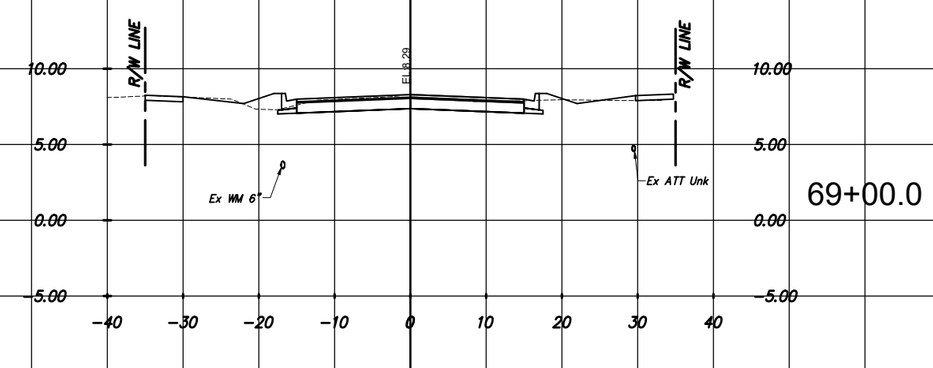
EXC.		FILL	
A	V	A	V
Ft²	YD³	Ft²	YD³
44.7	134.8	13.1	45.8



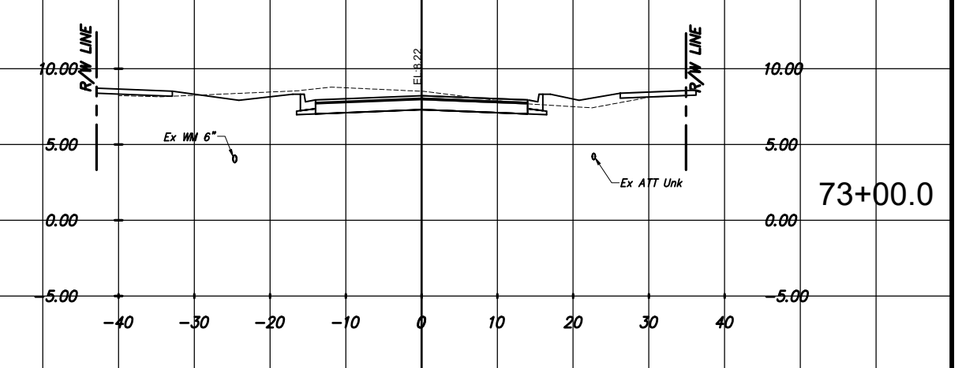
EXC.		FILL	
A	V	A	V
Ft²	YD³	Ft²	YD³
20.7	115.0	15.6	36.2



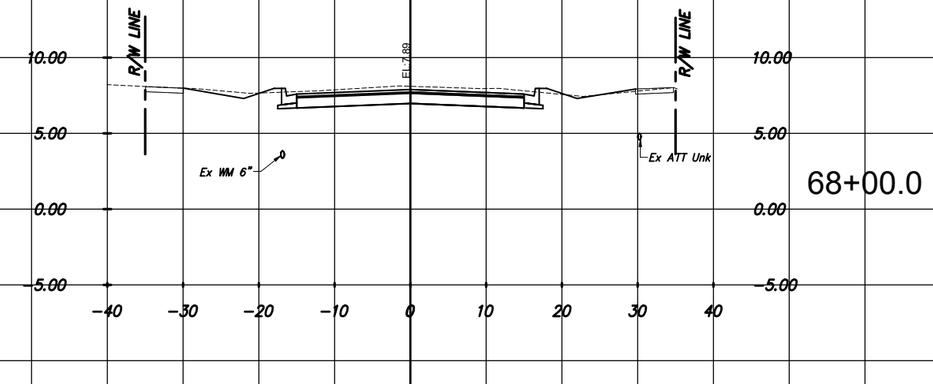
EXC.		FILL	
A	V	A	V
Ft²	YD³	Ft²	YD³
28.1	134.4	11.6	24.2



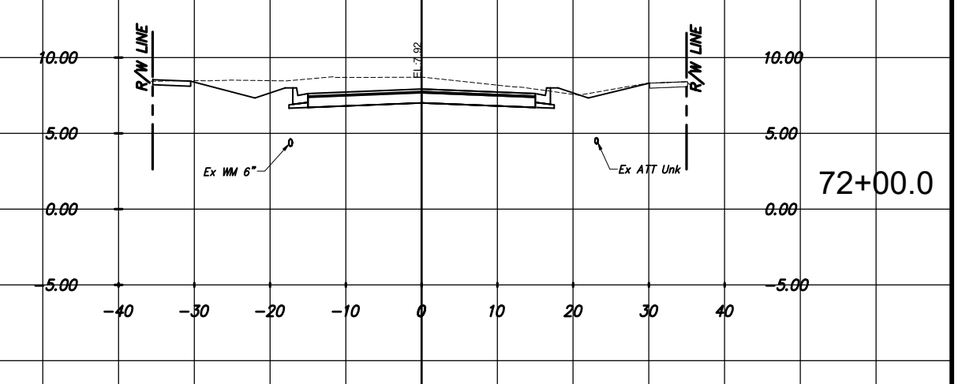
EXC.		FILL	
A	V	A	V
Ft²	YD³	Ft²	YD³
41.2	200.9	4.1	8.9



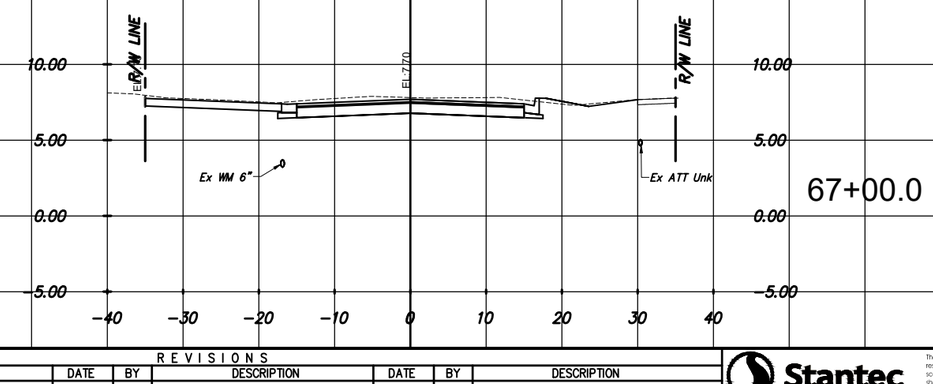
EXC.		FILL	
A	V	A	V
Ft²	YD³	Ft²	YD³
44.5	188.5	1.5	5.4



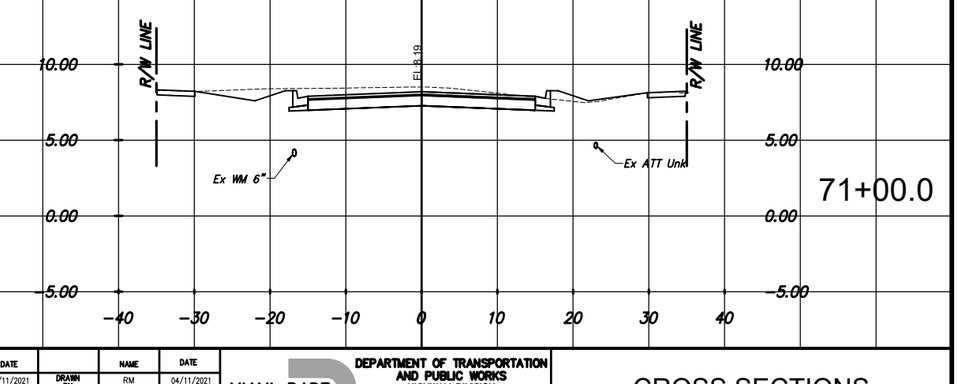
EXC.		FILL	
A	V	A	V
Ft²	YD³	Ft²	YD³
67.0	213.0	0.8	6.1



EXC.		FILL	
A	V	A	V
Ft²	YD³	Ft²	YD³
57.3	140.6	1.4	51.2



EXC.		FILL	
A	V	A	V
Ft²	YD³	Ft²	YD³
47.9	171.4	2.5	29.0



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HIGHWAY DIVISION
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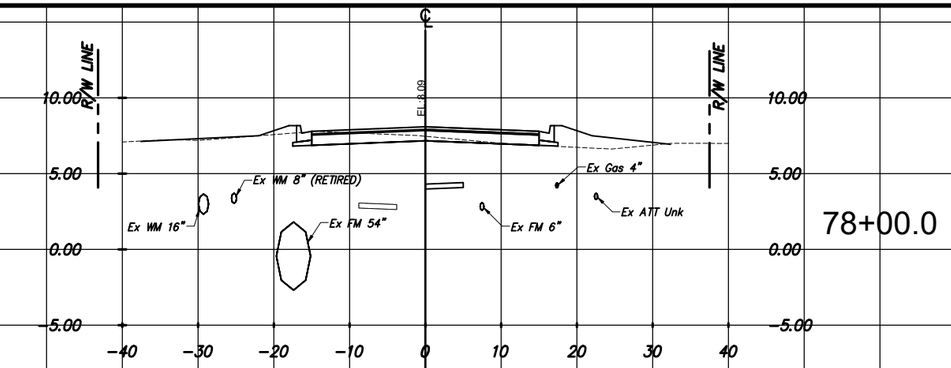
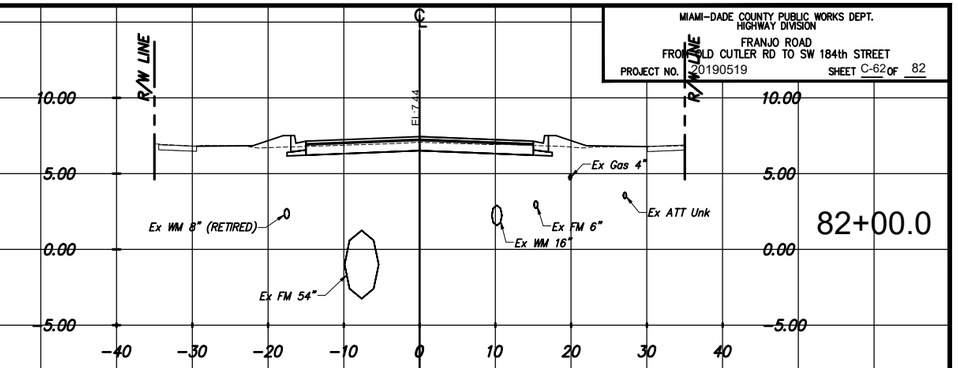
MIAMI, FLORIDA 33128

CROSS SECTIONS

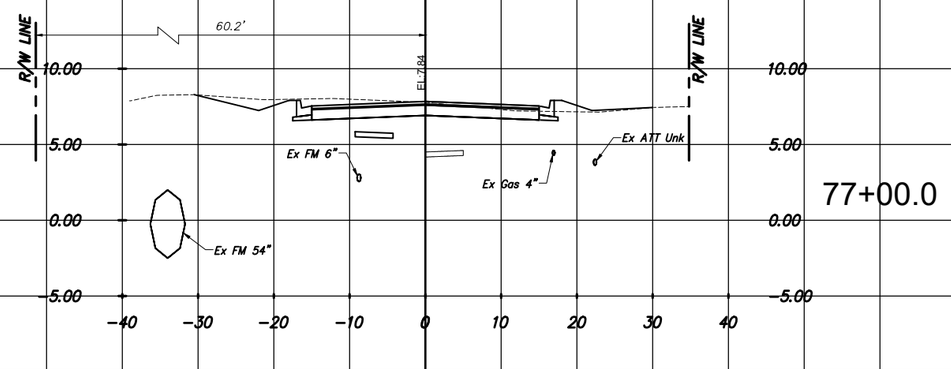
EXC.		FILL	
A	V	A	V
Ft²	YD³	Ft²	YD³
14.0	96.8	29.7	67.5



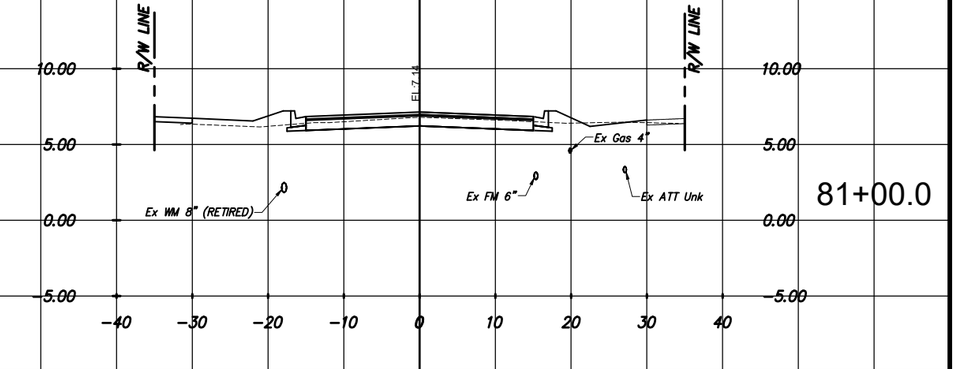
EXC.		FILL	
A	V	A	V
Ft²	YD³	Ft²	YD³
20.7	73.4	17.1	68.7



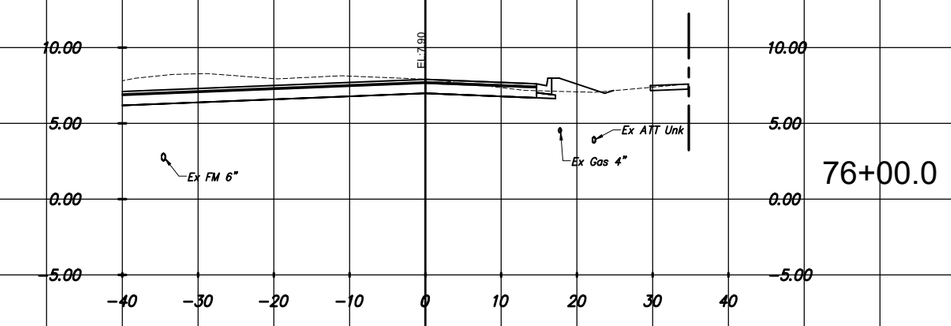
EXC.		FILL	
A	V	A	V
Ft²	YD³	Ft²	YD³
38.1	212.3	7.1	27.4



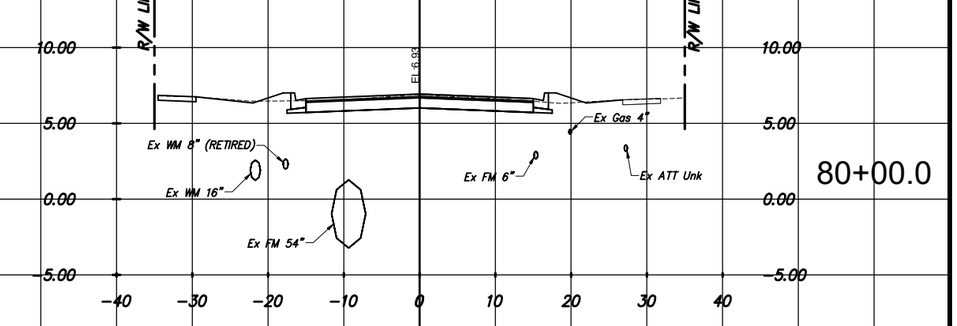
EXC.		FILL	
A	V	A	V
Ft²	YD³	Ft²	YD³
18.9	88.6	19.9	51.2



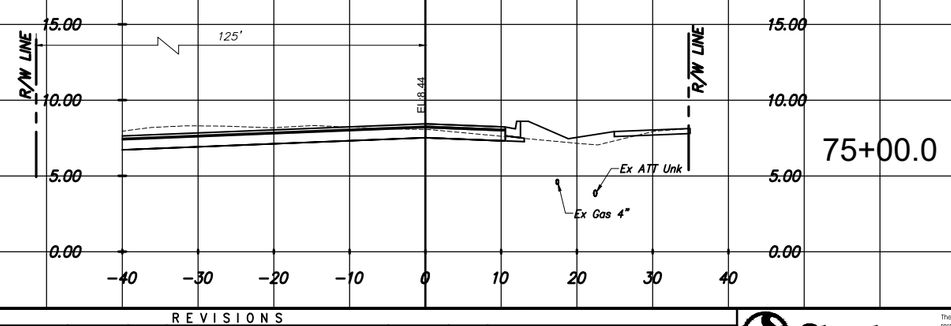
EXC.		FILL	
A	V	A	V
Ft²	YD³	Ft²	YD³
75.4	250.8	7.9	50.1



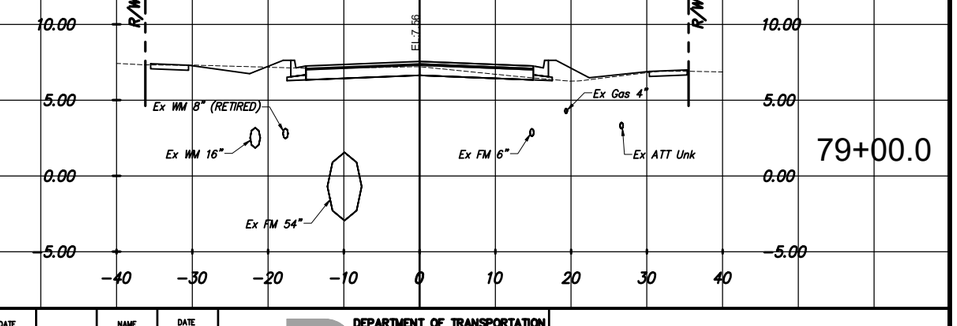
EXC.		FILL	
A	V	A	V
Ft²	YD³	Ft²	YD³
28.9	91.0	7.7	56.7



EXC.		FILL	
A	V	A	V
Ft²	YD³	Ft²	YD³
58.5	148.0	19.4	64.3



EXC.		FILL	
A	V	A	V
Ft²	YD³	Ft²	YD³
20.2	63.6	23.0	96.8



MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET
PROJECT NO. 20190519 SHEET C-62 OF 82

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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

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	NAME	DATE		NAME	DATE
DESIGNED BY	CMH	04/11/2021	DRAWN BY	RM	04/11/2021
CHECKED BY	CMH		CHECKED BY	CMH	

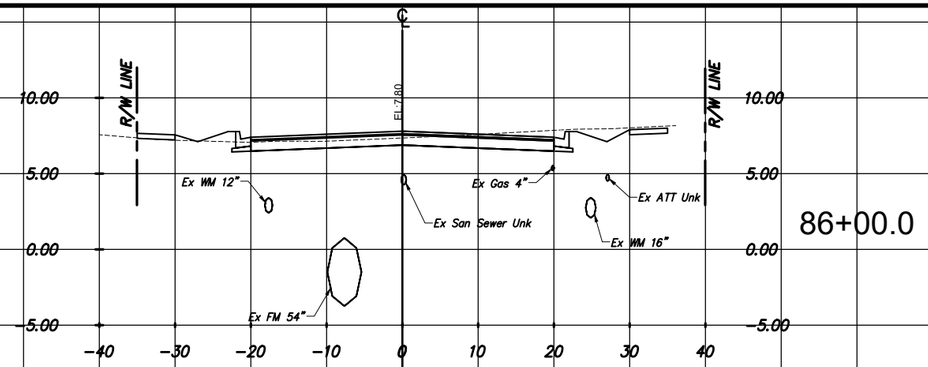
SUPERVISED BY:

MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

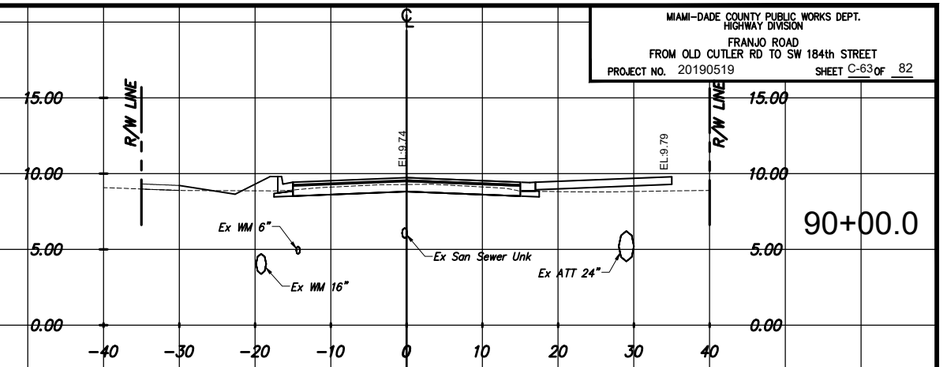
CROSS SECTIONS

EXC.		FILL	
A	V	A	V
Ft²	YD³	Ft²	YD³
45.9	225.5	13.4	26.7



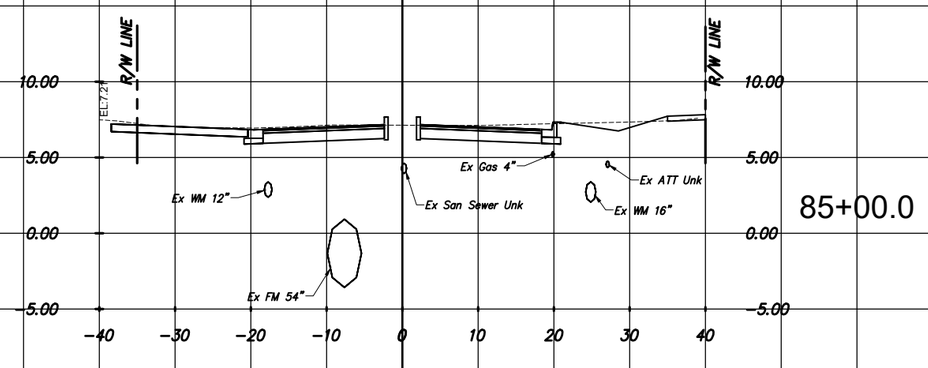
86+00.0

EXC.		FILL	
A	V	A	V
Ft²	YD³	Ft²	YD³
19.1	84.7	23.8	63.4



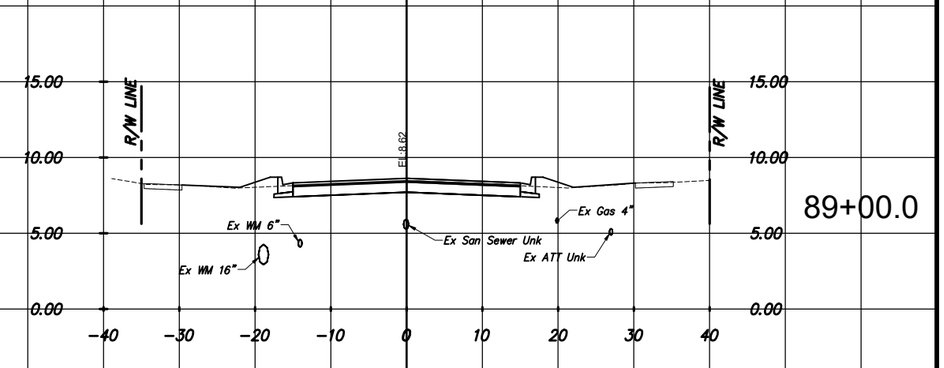
90+00.0

75.9	241.1	1.1	9.1



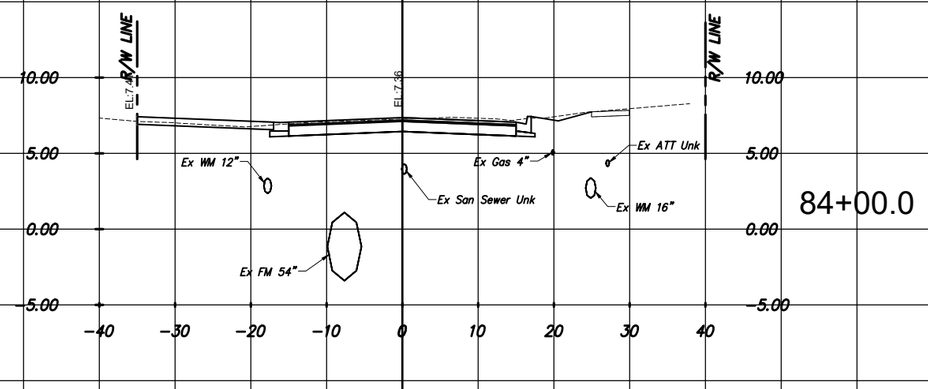
85+00.0

26.7	124.7	10.4	26.4



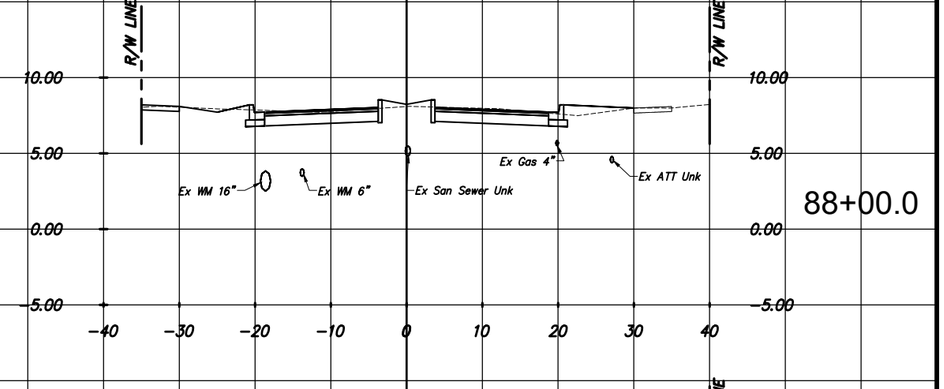
89+00.0

54.3	231.0	3.9	26.5



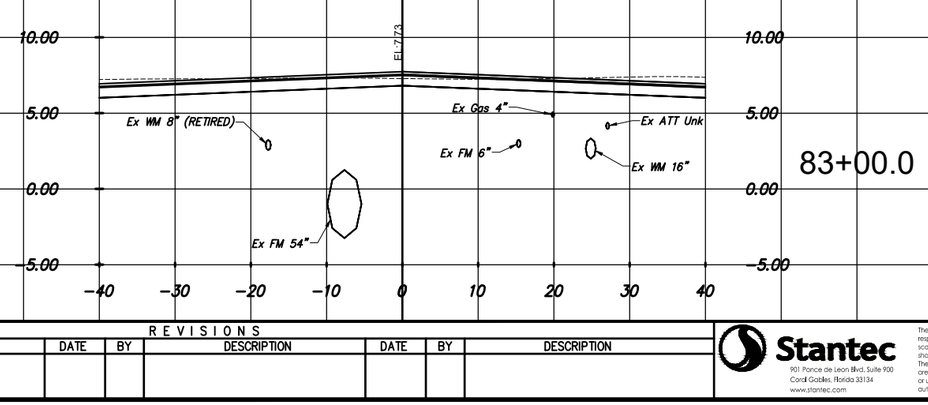
84+00.0

40.7	166.2	3.8	44.7



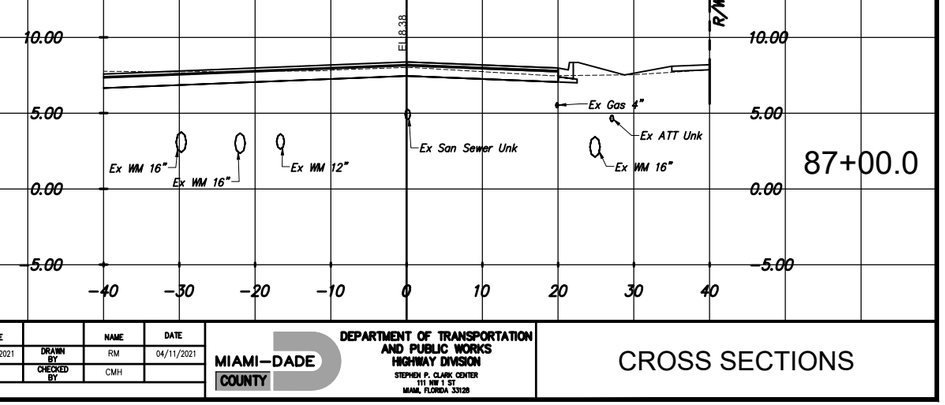
88+00.0

70.4	168.7	10.4	51.1



83+00.0

49.1	175.8	20.3	62.4



87+00.0

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET
PROJECT NO. 20190519 SHEET C-63 OF 82

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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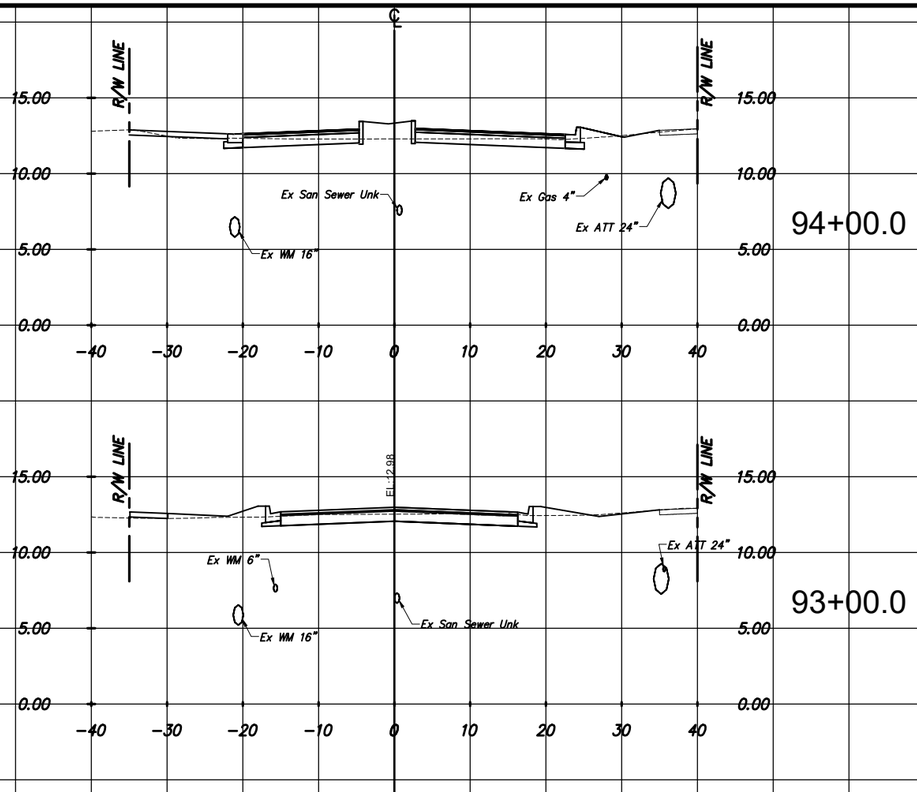
CHECKED BY	CMH		CHECKED BY	CMH	
SUPERVISED BY:					

MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

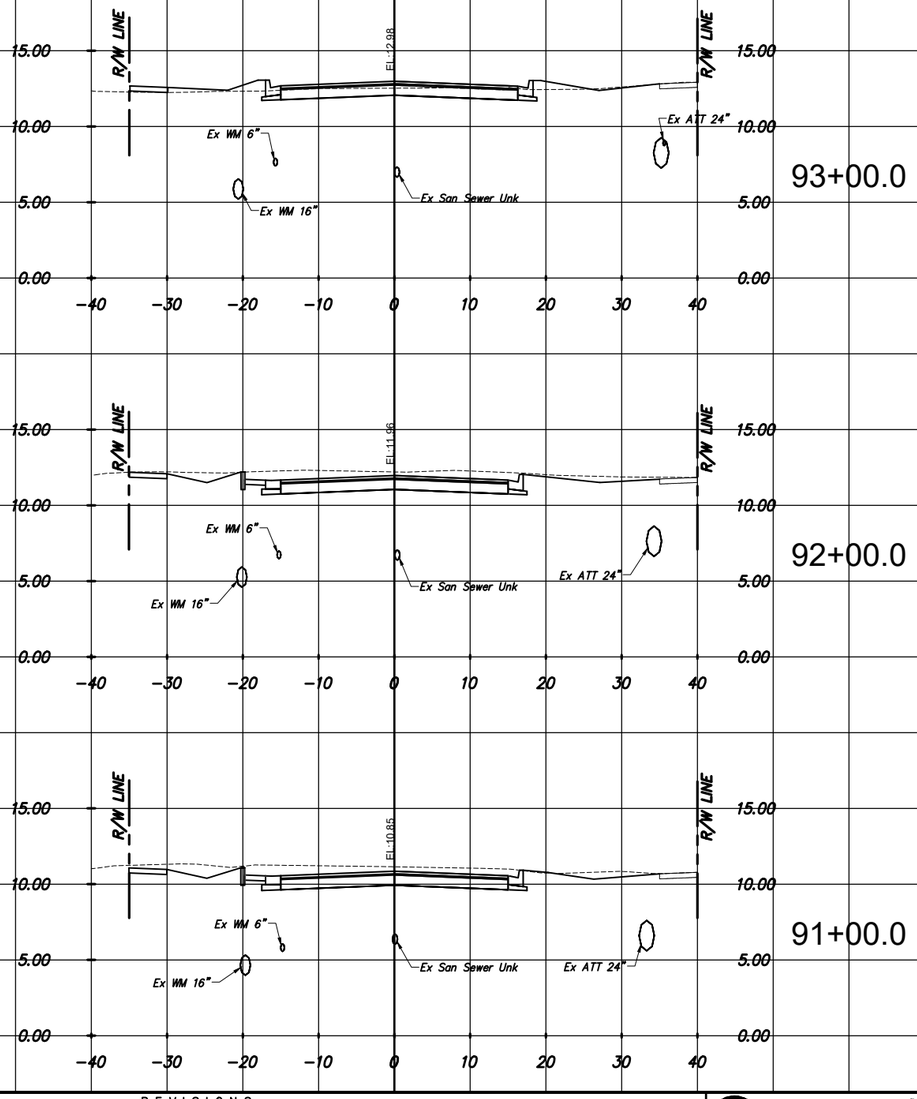
CROSS SECTIONS

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
20.6	79.3	27.7	79.8



94+00.0

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
22.2	147.1	15.4	28.5



93+00.0

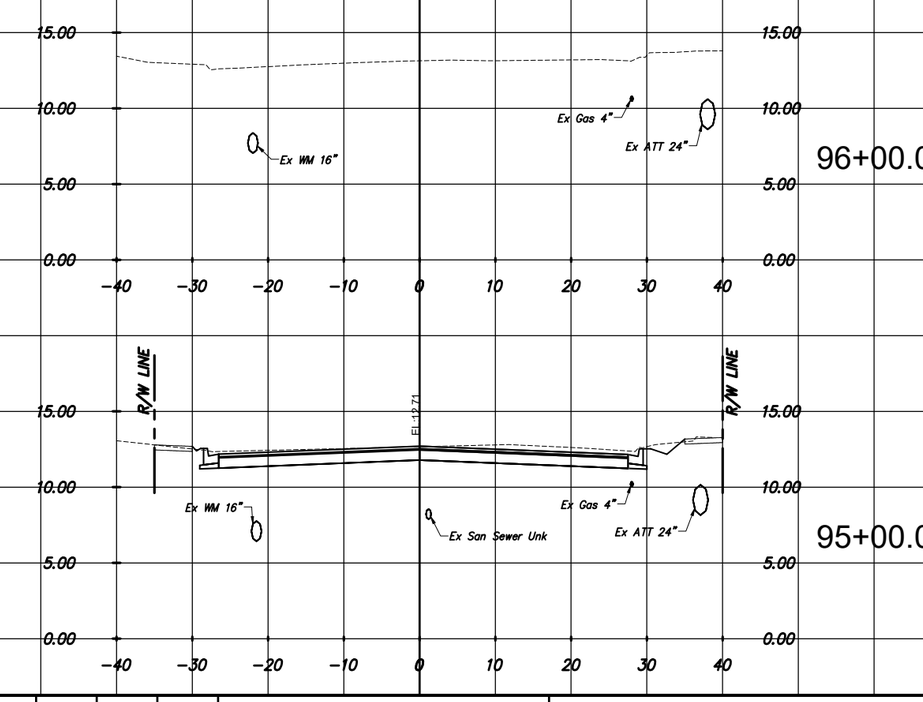
EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
57.3	219.3	0.0	0.3

92+00.0

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
61.1	148.5	0.1	44.4

91+00.0

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
0.0	128.2	0.0	0.5



96+00.0

EXC.		FILL	
A	V	A	V
Ft^2	YD^3	Ft^2	YD^3
69.2	166.4	0.3	51.9

95+00.0

Fill Vol	Cum Cut Vol

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184th STREET
PROJECT NO. 20190519 SHEET C-64 OF 82

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CHECKED BY	CMH		CHECKED BY	CMH	

SUPERVISED BY:

MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

CROSS SECTIONS

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBER C-66 ORIG.	C-66 FINAL	C-67 ORIG.	C-67 FINAL	C-68 ORIG.	C-68 FINAL	C-69 ORIG.	C-69 FINAL	C-70 ORIG.	C-70 FINAL	C-71 ORIG.	C-71 FINAL	C-72 ORIG.	C-72 FINAL	C-73 ORIG.	C-73 FINAL	C-74 ORIG.	C-74 FINAL	C-75 ORIG.	C-75 FINAL	GRAND TOTAL ORIG.	GRAND TOTAL FINAL
700-40-1	SIGN SINGLE POST (LESS THAN 12 SQ FT.)	AS.																						
	R1-1/D3-1 (STOP) (INTERSECTING STREET NAMES)	AS.	2		2		2		0		4		4		4		0		1		1		20	
	D1-1d (STREET NAMES)	AS.	0		0		0		0		0		0		0		0		4		3		7	
	R1-1 (STOP SIGN)	AS.	0		0		0		0		0		0		0		0		0		0		0	
	R1-2 (YIELD SIGN)	AS.	0		0		0		0		0		0		0		0		6		3		9	
	R2-1 (SPEED LIMIT SIGN)	AS.	2		1		4		2		2		0		3		1		1		0		16	
	R3-17 (BIKE LANE)	AS.	3		3		2		2		4		4		4		0		0		0		22	
	R3-17/R2-17A (BIKE LANE) (AHEAD)	AS.	1		0		0		0		0		0		0		0		0		0		1	
	R3-17/R2-17B (BIKE LANE) (ENDS)	AS.	1		0		0		0		0		2		1		0		2		1		7	
	R4-11 (BIKE MAY USE FULL LANE)	AS.	0		0		0		0		0		0		0		1		0		0		1	
	R4-7/OM1-3 (KEEP RIGHT) (OBJECT MARKER)	AS.	0		0		0		0		0		0		0		0		4		3		7	
	W2-6/W13-1 (TRAFFIC CIRCLE) (15 MPH SPEED LIMIT)	AS.	0		0		1		0		0		0		0		0		3		3		7	
	S1-1/W16-9P (SCHOOL CROSSING) (AHEAD)	AS.	0		0		0		0		0		1		0		0		0		0		1	
	W11-2/W16-7PL (CROSSING SIGN) (ARROW)	AS.	0		0		0		0		0		0		2		0		10		6		18	
	W11-2/W16-9p (CROSSING SIGN) (AHEAD)	AS.	0		0		0		0		0		0		1		0		0		0		1	
	R6-4 (ROUNDABOUT DIRECTIONAL CHEVRON)	AS.	0		0		0		0		0		0		0		0		4		3		7	
	EMERGENCY EVACUATION BUS PICK-UP SIGN	AS.	1		0		0		0		0		0		0		0		0		0		1	
700-46-21	RELOCATE EXISTING SIGN (SINGLE POST)	AS.	0		0		0		1		2		4		4		1		0		0		12	
706-3	REFLECTIVE PAVEMENT MARKER (SEE PLANS FOR DETAILS)	EA.	65		44		63		130		48		35		80		62		155		66		748	
711-11-160	THERMOPLASTIC (WHITE) (MESSAGE) SEE PLANS FOR DETAILS	EA.	5		3		2		4		4		5		7		9		0		0		39	
711-11-120	THERMOPLASTIC (WHITE) (SOLID) (6")	LF.	1,665		1,470		1,880		2,480		2,110		1,160		1,980		620		0		0		13,365	
711-11-123	THERMOPLASTIC (WHITE) (SOLID) (12")	LF.	130		200		130		410		260		325		350		0		340		210		2,355	
711-11-125	THERMOPLASTIC (WHITE) (SOLID) (24")	LF.	60		40		30		120		50		80		190		0		370		205		1,145	
711-11-221	THERMOPLASTIC (YELLOW) (SOLID) (6")	LF.	1,010		300		660		1,440		400		300		1,980		940		1,760		620		9,410	
711-11-224	THERMOPLASTIC (YELLOW) (SOLID) (18")	LF.	10		0		40		140		0		0		10		90		0		0		290	
711-11-241	THERMOPLASTIC (YELLOW) (10'-30' SKIP) (6")	LF.	730		910		1,015		720		1,200		840		250		0		0		0		5,665	
711-11-141	THERMOPLASTIC (WHITE) (2'-4' SKIP) (6")	LF.	110		0		0		250		0		88		25		166		65		60		764	
711-11-141	THERMOPLASTIC (WHITE) (2'-2' DOTTED) (6")	LF.	0		0		0		0		0		0		0		0		50		60		110	
711-11-180	THERMOPLASTIC (WHITE) (YIELD LINE)	LF.	0		0		0		0		0		0		0		0		50		35		85	

NOTES

1. ALL SIGNING AND PAVEMENT MARKINGS SHALL CONFORM WITH THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS.
2. ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE SPECIFIED. BEFORE STARTING THE PROJECT, THE CONTRACTOR WILL REVIEW EXISTING SIGNS SHOWN ON THE PLANS TO BE RELOCATED OR TO REMAIN. THE CONTRACTOR WILL NOTIFY IN WRITING TO THE PROJECT ENGINEER OF ANY MISSING SIGNS BEFORE CONSTRUCTION STARTS. SIGNS DAMAGED BY THE CONTRACTOR'S OPERATIONS WILL BE REPLACED AT NO COST TO THE DEPARTMENT. IF EXISTING SIGNS TO BE RELOCATED HAVE A DAMAGED POLE OR A POLE NOT MEETING HEIGHT SPECIFICATION REQUIREMENTS, THE COST OF A NEW POLE WILL BE INCLUDED IN THE RELOCATION BID ITEM.
3. ALL PAVEMENT MARKINGS, MESSAGES, AND ARROWS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
4. REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED ALONG THE ENTIRE LENGTH OF THE PROJECT.
5. MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND AT THE END OF THE PROJECT AND AT ALL SIDE STREETS WITHOUT JOGS OR OFFSETS.
6. THE CONTRACTOR SHALL REMOVE EXISTING MARKINGS BY FDOT APPROVED METHOD WITHOUT DAMAGE TO THE FRICTION COURSE.
7. SIGN ASSEMBLY LOCATIONS SHOWN ON PLANS WHICH ARE IN CONFLICT WITH LIGHTING, UTILITIES, DRIVEWAYS, WHEELCHAIR RAMPS, ETC. MAY BE ADJUSTED SLIGHTLY AS DIRECTED BY THE ENGINEER. EXTREME LOCATION CHANGES MUST BE APPROVED BY MIAMI-DADE SIGNALS AND SIGNS DIVISION.
8. THE CONTRACTOR SHALL RELOCATE ALL EXISTING POST-MOUNTED STREET NAME AND STOP SIGNS TO A VISIBLE AREA UNDISTURBED BY THE CONSTRUCTION SO AS TO MINIMIZE DAMAGE TO THE SIGNS. NEW STREET NAME SIGNS WILL BE ATTACHED AT THE TOP OF THE NEW STOP SIGNS ON MINOR SIDE STREETS AT THE END OF CONSTRUCTION.
09. EXTRUDED ALUMINUM SIGN SUPPORT CLAMPS ARE NOT ACCEPTABLE. ALL RELOCATED SIGNS MUST COMPLY WITH THE DESIGN STANDARDS AS IF THEY WERE NEW SIGNS. IF EXISTING CLAMPS, BRACKETS, POLES, ETC. NEED TO BE REPLACED THE COST SHALL BE INCLUDED IN THE RELOCATION PAY ITEM.
10. ANY SIGNING MATERIALS, INCLUDING SUPPORTS, TO BE REMOVED AS NOTED ON PLAN SHEETS, SHALL BE DELIVERED BY THE CONTRACTOR IN EXISTING CONDITION, IN CARE OF THE STOREKEEPER AT THE MIAMI-DADE COUNTY MAINTENANCE YARD, 7100 NW 36 STREET, MIAMI, FL 33166.
11. SCHOOL CROSSING SIGNAGE AND SCHOOL SPEED ZONE SIGNAGE TO CONFORM WITH MUTCD/FDOT STANDARDS (FLUORESCENT YELLOW-GREEN BACKGROUNDS).
12. REFLECTIVE PAVEMENT MARKERS AS PER FDOT STANDARD INDEX NO 17352.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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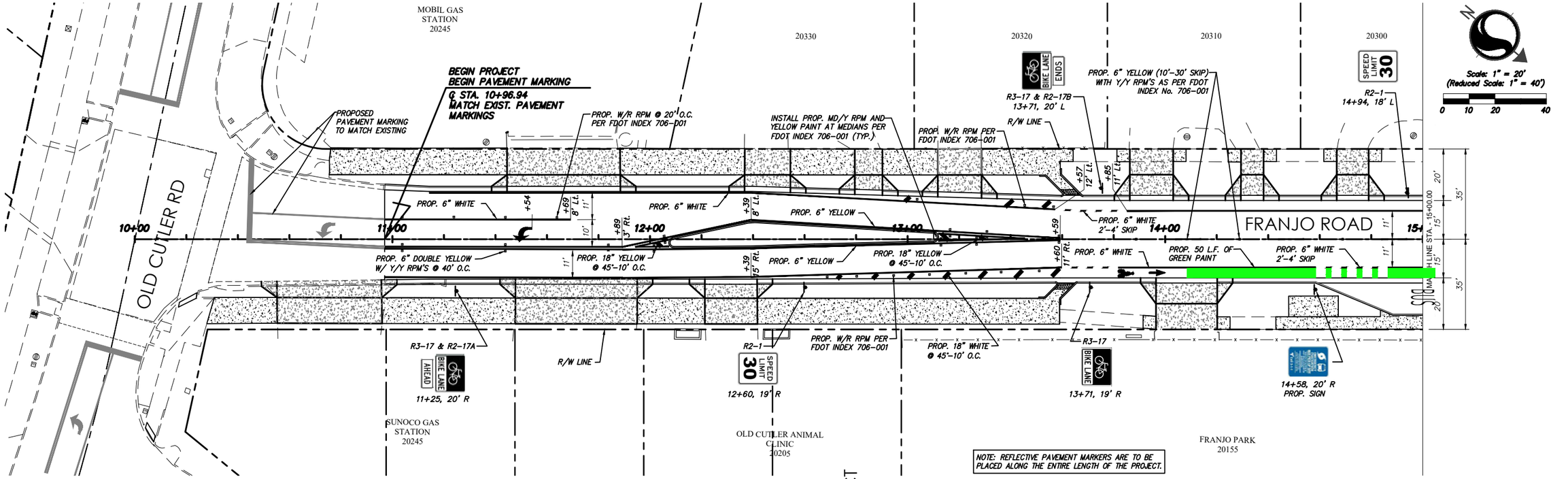
DESIGNED BY	MS	09/27/21	DRAWN BY	MS	09/27/21
CHECKED BY	CMH	09/27/21	CHECKED BY	CMH	09/27/21
SUPERVISED BY:	CMH				

MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

PAVEMENT MARKINGS

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 20190519 SHEET C-66 OF 82



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CHECKED BY	CMH		CHECKED BY	CMH	
SUPERVISED BY:					

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

PAVEMENT MARKINGS

PLOTTED BY: MORALES, ROD DATE: 2/16/2023 5:12 PM
CREATED: 2022-12-14 - V:\2156\ACTIVE\215619952\CIVIL\DESIGN\DRAWINGS\CIVIL PLANS\15952 PAVEMENT MARKINGS.DWG

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 20190519 SHEET C-67 OF 82

SEE SHEET C74 FOR ROUNDABOUT PAVEMENT MARKING AND SIGNAGE

NOTE: REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED ALONG THE ENTIRE LENGTH OF THE PROJECT.

FRANJO ROAD

SW 200TH ST

SW 199TH ST

SW 198TH TER

SW 92ND AVE

MATCH LINE STA. - 26+97.00

MATCH LINE STA. - 32+96.00

Scale: 1" = 20'
(Reduced Scale: 1" = 40')
0 10 20 40

PROP. 6" DOUBLE YELLOW
PROP. 6" WHITE
PROP. 6" WHITE 2'-4' SKIP
PROP. 24" WHITE
PROP. 12" WHITE
PROP. CONCRETE CROSSWALK (TYP.)
PROP. DETECTABLE WARNING SURFACE (TYP.)
PROP. 50 L.F. OF 6" DOUBLE YELLOW WITH Y/Y RPMs @ 40' O.C.
PROP. 6" YELLOW (10'-30' SKIP) WITH Y/Y RPM'S AS PER FDOT INDEX No. 706-001
BLUE RPM
R/W LINE

24+36, 19' L — W2-6 & W13-1 — SPEED LIMIT 15
24+78, 19' L — R3-17 & R2-17B — BIKE LANE ENDS
24+73, 40' R — R1-1 & D3-1 — SW 199TH ST / FRANJO RD — STOP
25+05, 19' R — R3-17 — BIKE LANE
28+61, 19' L — R3-17 — BIKE LANE
28+92, 40' L — R1-1 & D3-1 — SW 92ND AVE / FRANJO RD — STOP
28+10, 40' R — R1-1 & D3-1 — SW 198TH TER / FRANJO RD — STOP
28+46, 18' R — R3-17 — BIKE LANE
31+15, 20' L — R2-1 — SPEED LIMIT 30

REVISIONS								
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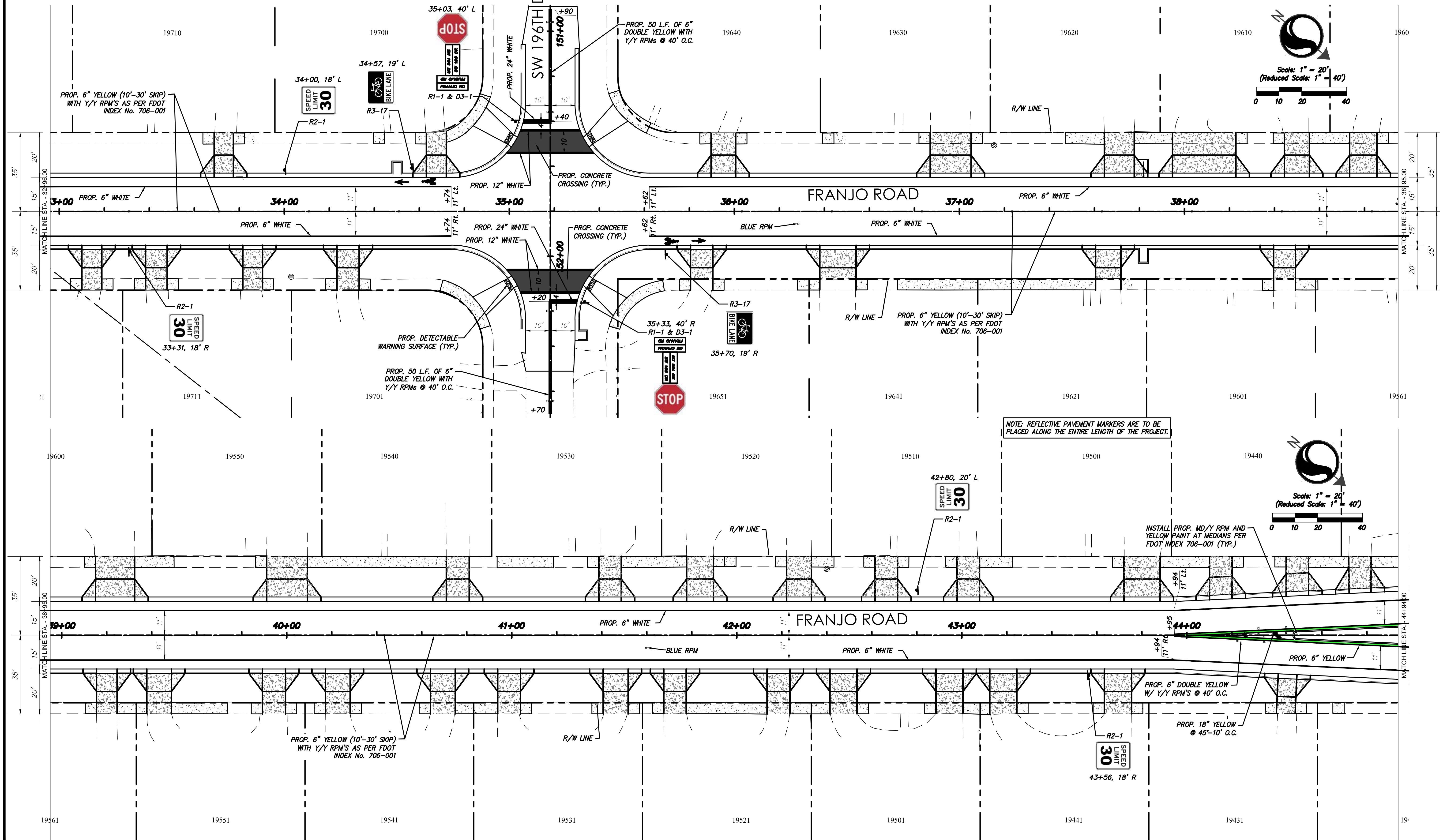
SUPERVISED BY:					

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

PAVEMENT MARKINGS

PLOTTED BY: MORALES, ROD DATE: 2/16/2023 5:12 PM
CREATED: 2022-12-14 - V:\2156\ACTIVE\21561952\CIVIL\DESIGN\DRAWING\CIVIL PLANS\13952 PAVEMENT MARKINGS.DWG


SW 196TH DR
FRANJO ROAD
PROP. 6" YELLOW (10'-30' SKIP) WITH Y/Y RPM'S AS PER FDOT INDEX No. 706-001
PROP. 50 L.F. OF 6" DOUBLE YELLOW WITH Y/Y RPMs @ 40' O.C.
PROP. 24" WHITE
PROP. 12" WHITE
PROP. 6" WHITE
PROP. CONCRETE CROSSING (TYP.)
PROP. DETECTABLE WARNING SURFACE (TYP.)
R/W LINE
BLUE RPM
R2-1
R3-17
R1-1 & D3-1
34+00, 18' L
34+57, 19' L
35+03, 40' L
33+31, 18' R
35+33, 40' R
35+70, 19' R
42+80, 20' L
43+56, 18' R
NOTE: REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED ALONG THE ENTIRE LENGTH OF THE PROJECT.
INSTALL PROP. MD/Y RPM AND YELLOW PAINT AT MEDIANS PER FDOT INDEX 706-001 (TYP.)
PROP. 6" YELLOW
PROP. 6" DOUBLE YELLOW W/ Y/Y RPM'S @ 40' O.C.
PROP. 18" YELLOW @ 45'-10' O.C.
MATCH LINE STA. 32+96.00
MATCH LINE STA. 38+95.00
MATCH LINE STA. 44+94.00
Scale: 1" = 20' (Reduced Scale: 1" = 40')
STOP
SPEED LIMIT 30
BIKE LANE

REVISIONS								
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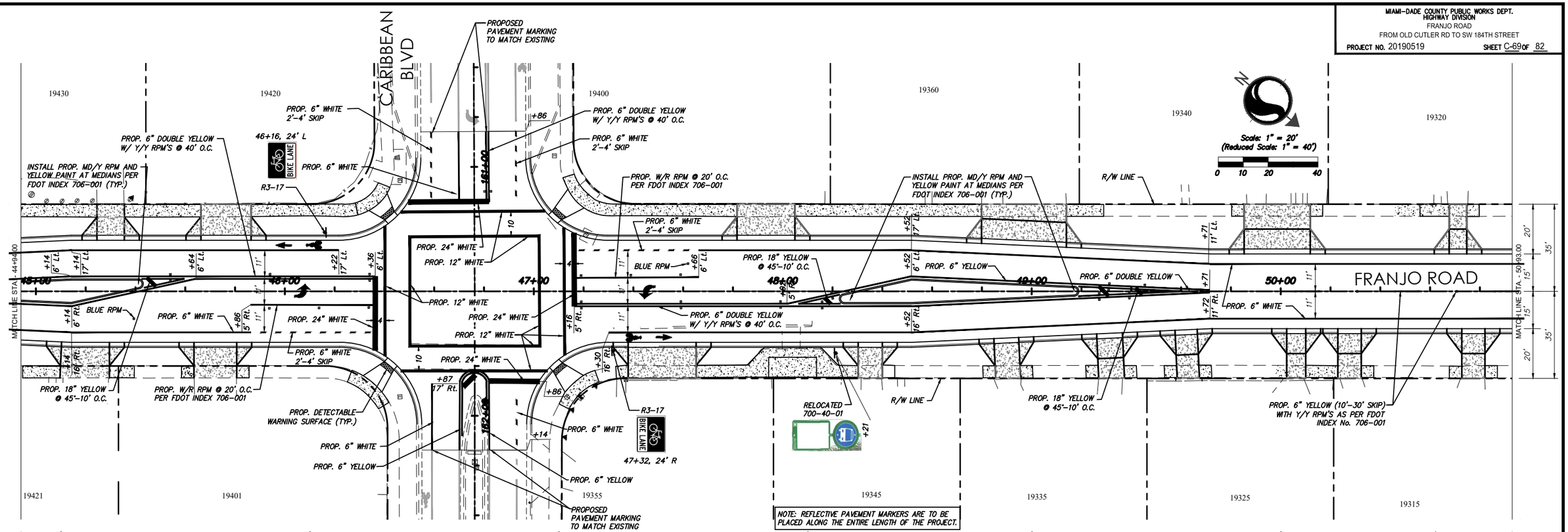
CHECKED BY	CMH		CHECKED BY	CMH	
SUPERVISED BY:					

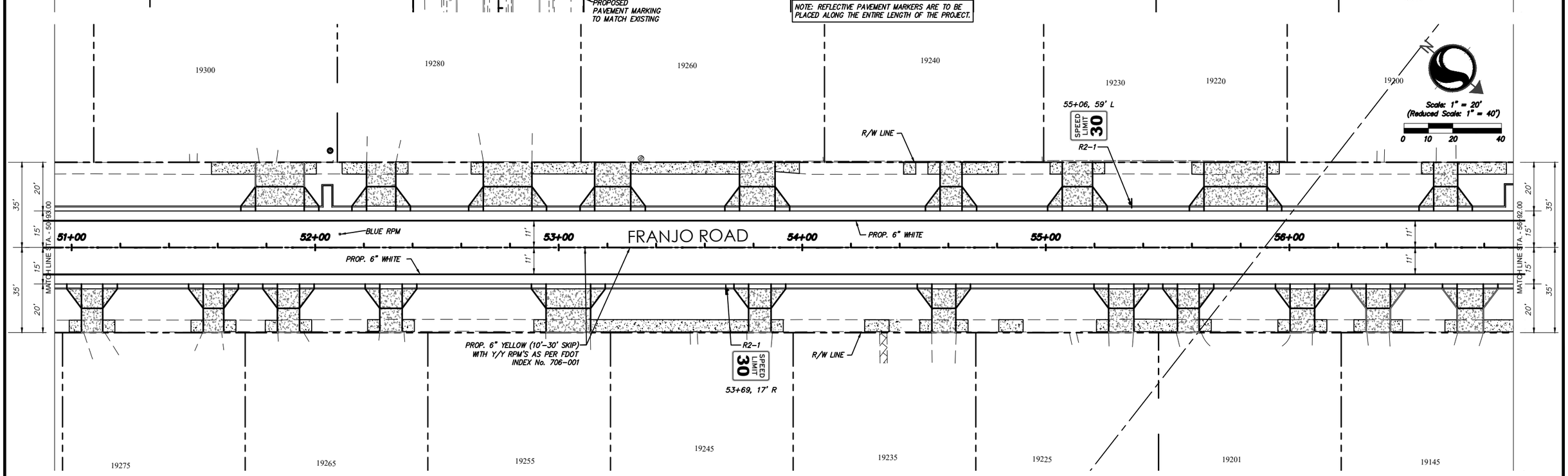
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

PAVEMENT MARKINGS

PLOTTED BY: MORALES, ROD DATE: 2/16/2023 5:12 PM
CREATED: 2022-12-14

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 20190519 SHEET C-69 OF 82





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HIGHWAY DIVISION
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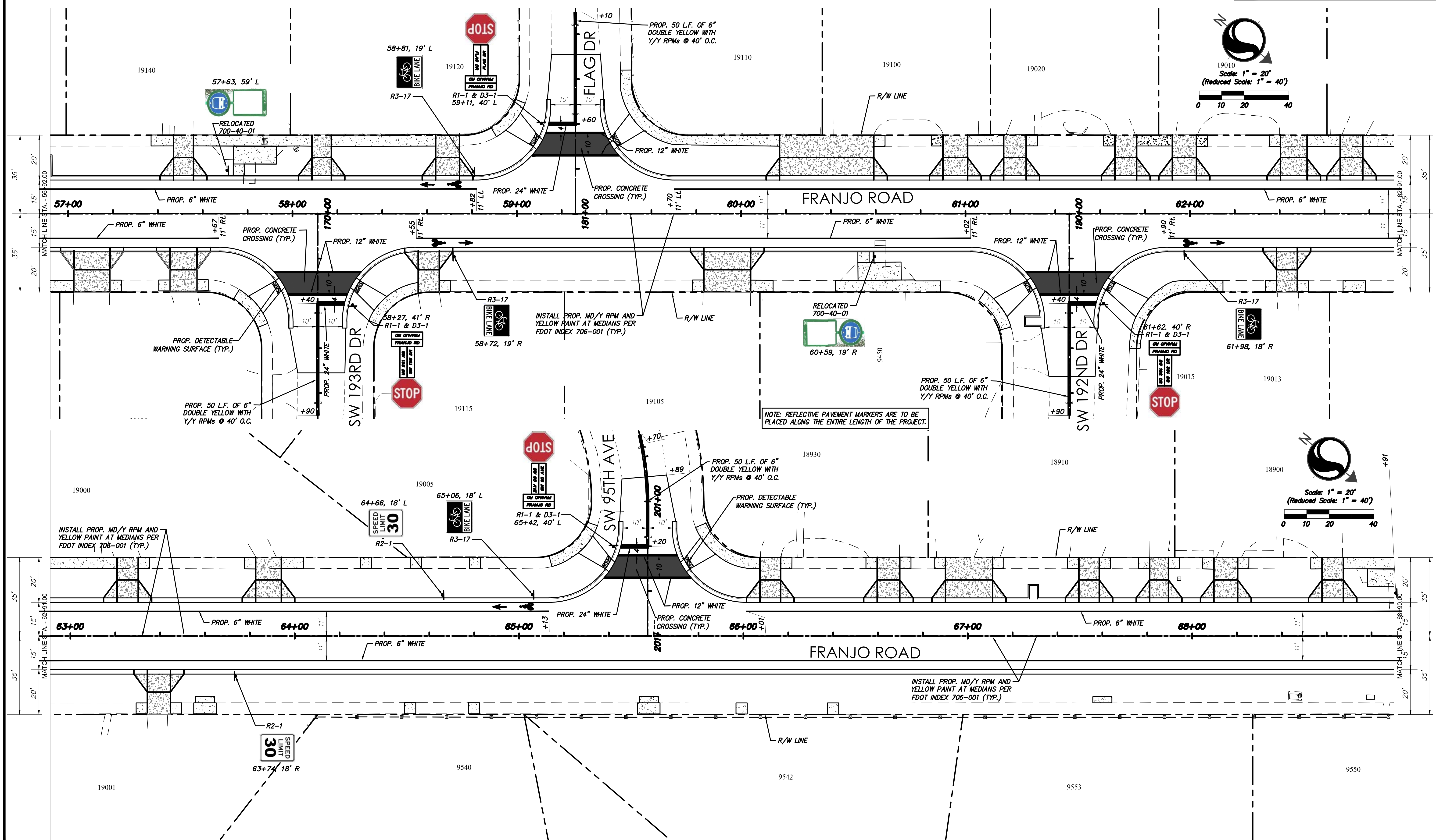
MIAMI, FLORIDA 33128

PAVEMENT MARKINGS

PLOTTED BY: MORALES, ROD DATE: 2/16/2023 5:13 PM
CREATED: 2022-12-14 - V:\2156\ACTIVE\215615902\CIVIL\DESIGN\DRAWINGS\CIVIL PLANS\15902 PAVEMENT MARKINGS.DWG


FLAG DR
FRANJO ROAD
SW 193RD DR
SW 192ND DR
SW 95TH AVE
PROP. 50 L.F. OF 6" DOUBLE YELLOW WITH Y/Y RPMs @ 40' O.C.
PROP. 12" WHITE
PROP. 24" WHITE
PROP. 6" WHITE
PROP. CONCRETE CROSSING (TYP.)
PROP. DETECTABLE WARNING SURFACE (TYP.)
INSTALL PROP. MD/Y RPM AND YELLOW PAINT AT MEDIANS PER FDOT INDEX 706-001 (TYP.)
R/W LINE
RELOCATED 700-40-01
57+63, 59' L
58+81, 19' L
R3-17
R1-1 & D3-1
59+11, 40' L
58+27, 41' R
58+72, 19' R
60+59, 19' R
61+62, 40' R
61+98, 18' R
64+66, 18' L
65+06, 18' L
65+42, 40' L
63+74, 18' R
R2-1
STOP
BIKE LANE
SPEED LIMIT 30
NOTE: REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED ALONG THE ENTIRE LENGTH OF THE PROJECT.
MATCH LINE STA. - 56+92.00
MATCH LINE STA. - 62+91.00
57+00
58+00
59+00
60+00
61+00
62+00
63+00
64+00
65+00
66+00
67+00
68+00
Scale: 1" = 20'
(Reduced Scale: 1" = 40')
0 10 20 40
19140
19120
19110
19100
19020
19010
19115
19105
19015
19013
19000
19005
18930
18910
18900
19001
9540
9542
9553
9550

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

PAVEMENT MARKINGS

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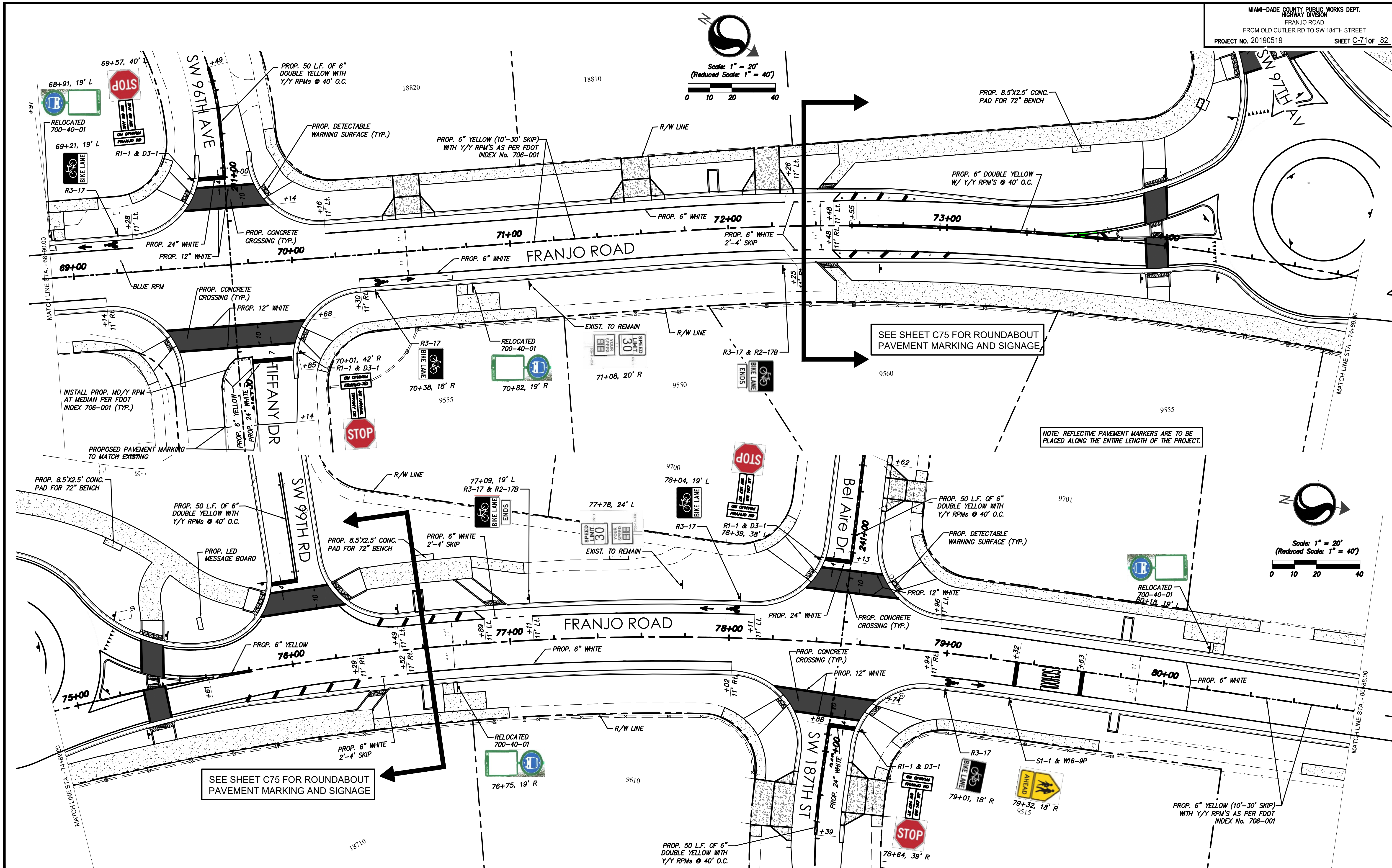
MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 20190519 SHEET C-71 OF 82



Scale: 1" = 20'
(Reduced Scale: 1" = 40')
0 10 20 40
SW 96TH AVE
TIFFANY DR
SW 97TH AV
FRANJO ROAD
SW 99TH RD
Bel Aire Dr
SW 187TH ST
69+57, 40' L
68+91, 19' L
RELOCATED 700-40-01
69+21, 19' L
R3-17
R1-1 & D3-1
PROP. 50 L.F. OF 6" DOUBLE YELLOW WITH Y/Y RPMs @ 40' O.C.
PROP. DETECTABLE WARNING SURFACE (TYP.)
PROP. 6" YELLOW (10'-30' SKIP) WITH Y/Y RPM'S AS PER FDOT INDEX No. 706-001
R/W LINE
PROP. 8.5'X2.5' CONC. PAD FOR 72" BENCH
PROP. 6" DOUBLE YELLOW W/ Y/Y RPM'S @ 40' O.C.
PROP. 6" WHITE
PROP. 6" WHITE 2'-4' SKIP
PROP. 24" WHITE
PROP. 12" WHITE
PROP. CONCRETE CROSSING (TYP.)
BLUE RPM
EXIST. TO REMAIN
SEE SHEET C75 FOR ROUNDABOUT PAVEMENT MARKING AND SIGNAGE
INSTALL PROP. MD/Y RPM AT MEDIAN PER FDOT INDEX 706-001 (TYP.)
PROPOSED PAVEMENT MARKING TO MATCH EXISTING
PROP. 6" YELLOW
PROP. 24" WHITE
70+01, 42' R
70+38, 18' R
70+82, 19' R
71+08, 20' R
R3-17 & R2-17B
NOTE: REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED ALONG THE ENTIRE LENGTH OF THE PROJECT.
MATCH LINE STA. - 68+90.00
MATCH LINE STA. - 74+89.00
MATCH LINE STA. - 80+88.00
PROP. LED MESSAGE BOARD
77+09, 19' L
77+78, 24' L
78+04, 19' L
78+39, 38' L
76+75, 19' R
79+01, 18' R
79+32, 18' R
78+64, 39' R
80+18, 19' L
S1-1 & W16-9P
STOP
BIKE LANE
ENDS
SPEED LIMIT 30
AHEAD
SCHOOL
69+00
70+00
71+00
72+00
73+00
75+00
76+00
77+00
78+00
79+00
80+00
18820
18810
9550
9555
9560
9700
9701
9610
9515
18710

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
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HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
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PAVEMENT MARKINGS

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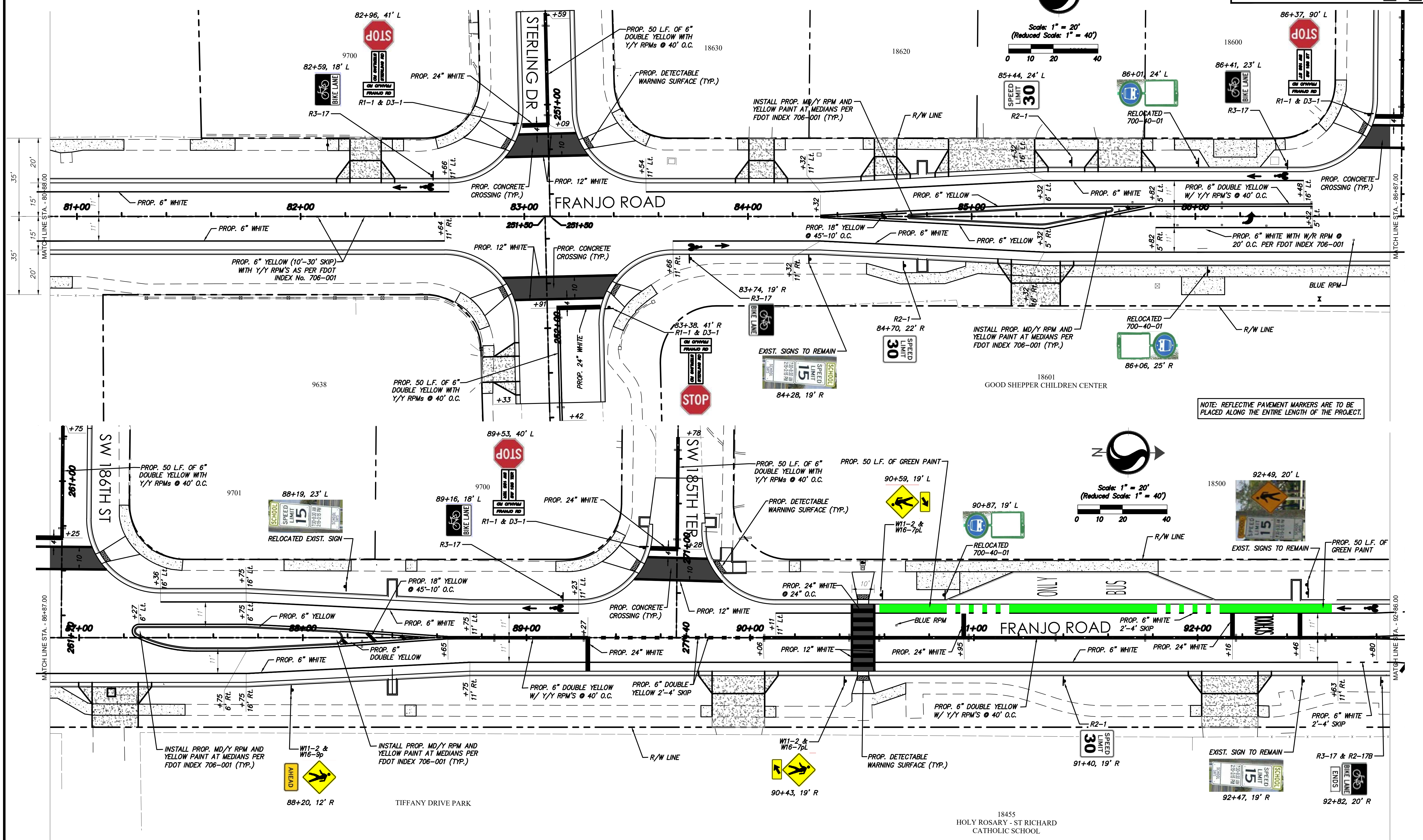
MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 20190519
SHEET C-72 OF 82



Scale: 1" = 20'
(Reduced Scale: 1" = 40')
0 10 20 40
FRANJO ROAD
STERLING DR
SW 186TH ST
SW 185TH TER
82+96, 41' L
82+59, 18' L
R1-1 & D3-1
R3-17
PROP. 24" WHITE
PROP. 50 L.F. OF 6" DOUBLE YELLOW WITH Y/Y RPMs @ 40' O.C.
PROP. DETECTABLE WARNING SURFACE (TYP.)
INSTALL PROP. MD/Y RPM AND YELLOW PAINT AT MEDIANS PER FDOT INDEX 706-001 (TYP.)
R/W LINE
85+44, 24' L
86+01, 24' L
86+41, 23' L
86+37, 90' L
R2-1
RELOCATED 700-40-01
PROP. CONCRETE CROSSING (TYP.)
PROP. 12" WHITE
PROP. 6" WHITE
PROP. 6" YELLOW
PROP. 6" DOUBLE YELLOW W/ Y/Y RPM'S @ 40' O.C.
PROP. 18" YELLOW @ 45'-10' O.C.
PROP. 6" WHITE WITH W/R RPM @ 20' O.C. PER FDOT INDEX 706-001
PROP. 6" YELLOW (10'-30' SKIP) WITH Y/Y RPM'S AS PER FDOT INDEX No. 706-001
BLUE RPM
83+74, 19' R
83+38, 41' R
84+70, 22' R
EXIST. SIGNS TO REMAIN
84+28, 19' R
86+06, 25' R
18601
GOOD SHEPPER CHILDREN CENTER
NOTE: REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED ALONG THE ENTIRE LENGTH OF THE PROJECT.
89+53, 40' L
88+19, 23' L
89+16, 18' L
RELOCATED EXIST. SIGN
PROP. 50 L.F. OF GREEN PAINT
90+59, 19' L
W11-2 & W16-7pL
90+87, 19' L
92+49, 20' L
PROP. 24" WHITE @ 24" O.C.
PROP. 6" DOUBLE YELLOW
PROP. 6" DOUBLE YELLOW 2'-4' SKIP
PROP. 6" WHITE 2'-4' SKIP
W11-2 & W16-9p
88+20, 12' R
90+43, 19' R
91+40, 19' R
92+47, 19' R
R3-17 & R2-17B
92+82, 20' R
BUS ONLY
TIFFANY DRIVE PARK
18455
HOLY ROSARY - ST RICHARD CATHOLIC SCHOOL
MATCH LINE STA. - 86+87.00
MATCH LINE STA. - 92+86.00

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

PAVEMENT MARKINGS

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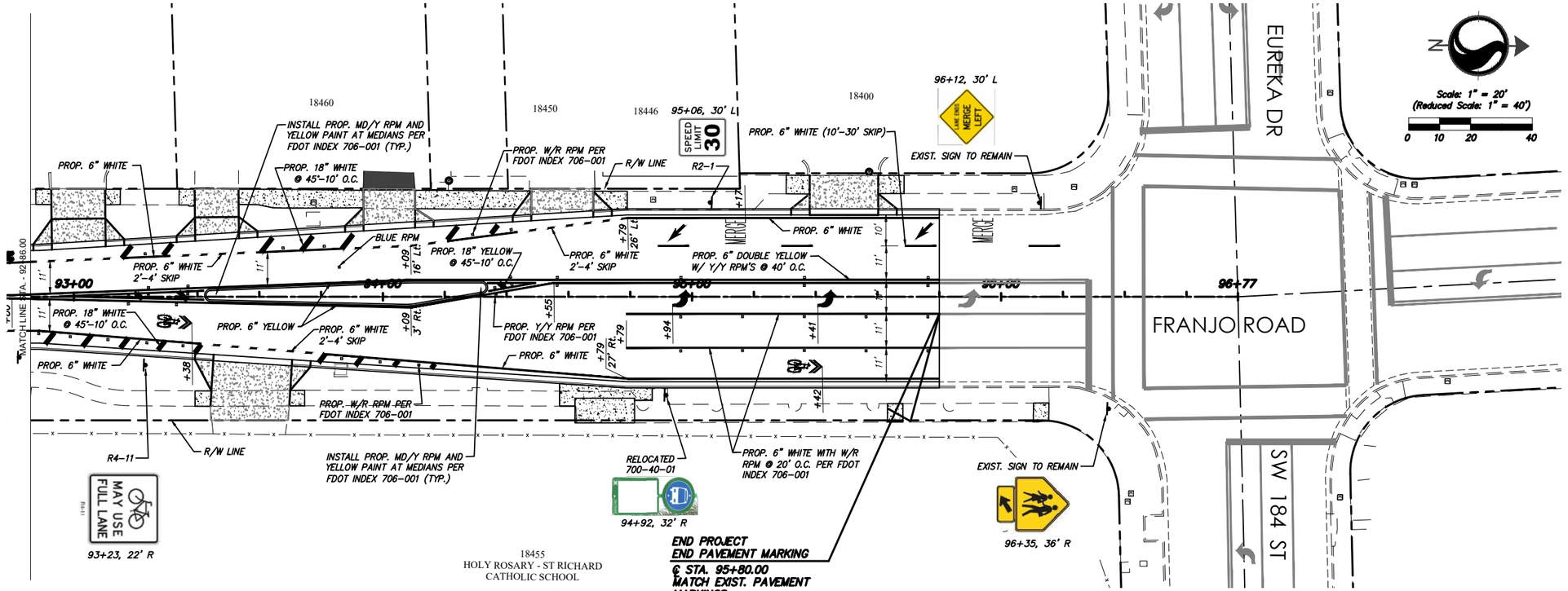

NOTES

1. ALL SIGNING AND PAVEMENT MARKINGS SHALL CONFORM WITH THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS AND JANUARY 2021 STANDARD SPECIFICATION eBOOK.
2. ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE SPECIFIED. BEFORE STARTING THE PROJECT, THE CONTRACTOR WILL REVIEW EXISTING SIGNS SHOWN ON THE PLANS TO BE RELOCATED OR TO REMAIN. THE CONTRACTOR WILL NOTIFY IN WRITING TO THE PROJECT ENGINEER OF ANY MISSING SIGNS BEFORE CONSTRUCTION STARTS. SIGNS DAMAGED BY THE CONTRACTOR'S OPERATIONS WILL BE REPLACED AT NO COST TO THE DEPARTMENT. IF EXISTING SIGNS TO BE RELOCATED HAVE A DAMAGED POLE OR A POLE NOT MEETING HEIGHT SPECIFICATION REQUIREMENTS, THE COST OF A NEW POLE WILL BE INCLUDED IN THE RELOCATION BID ITEM.
3. ALL PAVEMENT MARKINGS, MESSAGES, AND ARROWS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
4. REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED ALONG THE ENTIRE LENGTH OF THE PROJECT.
5. MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND AT THE END OF THE PROJECT AND AT ALL SIDE STREETS WITHOUT JOGS OR OFFSETS.
6. THE CONTRACTOR SHALL REMOVE EXISTING MARKINGS BY FDOT APPROVED METHOD WITHOUT DAMAGE TO THE FRICTION COURSE.
7. SIGN ASSEMBLY LOCATIONS SHOWN ON PLANS WHICH ARE IN CONFLICT WITH LIGHTING, UTILITIES, DRIVEWAYS, WHEELCHAIR RAMPS, ETC. MAY BE ADJUSTED SLIGHTLY AS DIRECTED BY THE ENGINEER. EXTREME LOCATION CHANGES MUST BE APPROVED BY MIAMI-DADE SIGNALS AND SIGNS DIVISION.
8. THE CONTRACTOR SHALL RELOCATE ALL EXISTING POST-MOUNTED STREET NAME AND STOP SIGNS TO A VISIBLE AREA UNDISTURBED BY THE CONSTRUCTION SO AS TO MINIMIZE DAMAGE TO THE SIGNS. NEW STREET NAME SIGNS WILL BE ATTACHED AT THE TOP OF THE NEW STOP SIGNS ON MINOR SIDE STREETS AT THE END OF CONSTRUCTION.
9. EXTRUDED ALUMINUM SIGN SUPPORT CLAMPS ARE NOT ACCEPTABLE. ALL RELOCATED SIGNS MUST COMPLY WITH THE LATEST FDOT DESIGN STANDARDS AS IF THEY WERE NEW SIGNS. IF EXISTING CLAMPS, BRACKETS, POLES, ETC. NEED TO BE REPLACED THE COST SHALL BE INCLUDED IN THE RELOCATION PAY ITEM.
10. ANY SIGNING MATERIALS, INCLUDING SUPPORTS, TO BE REMOVED AS NOTED ON PLAN SHEETS, SHALL BE DELIVERED BY THE CONTRACTOR IN EXISTING CONDITION, IN CARE OF THE STOREKEEPER AT THE MIAMI-DADE COUNTY MAINTENANCE YARD, 7100 NW 36 STREET, MIAMI, FL 33166.
11. SCHOOL CROSSING SIGNAGE AND SCHOOL SPEED ZONE SIGNAGE TO CONFORM WITH MUTCD/FDOT STANDARDS (FLUORESCENT YELLOW-GREEN BACKGROUNDS).

12 REFLECTIVE PAVEMENT MARKERS AS PER FDOT STANDARD INDEX NO 706-001(INCLUDING BLUE RPMS FOR FIRE HYDRANTS).

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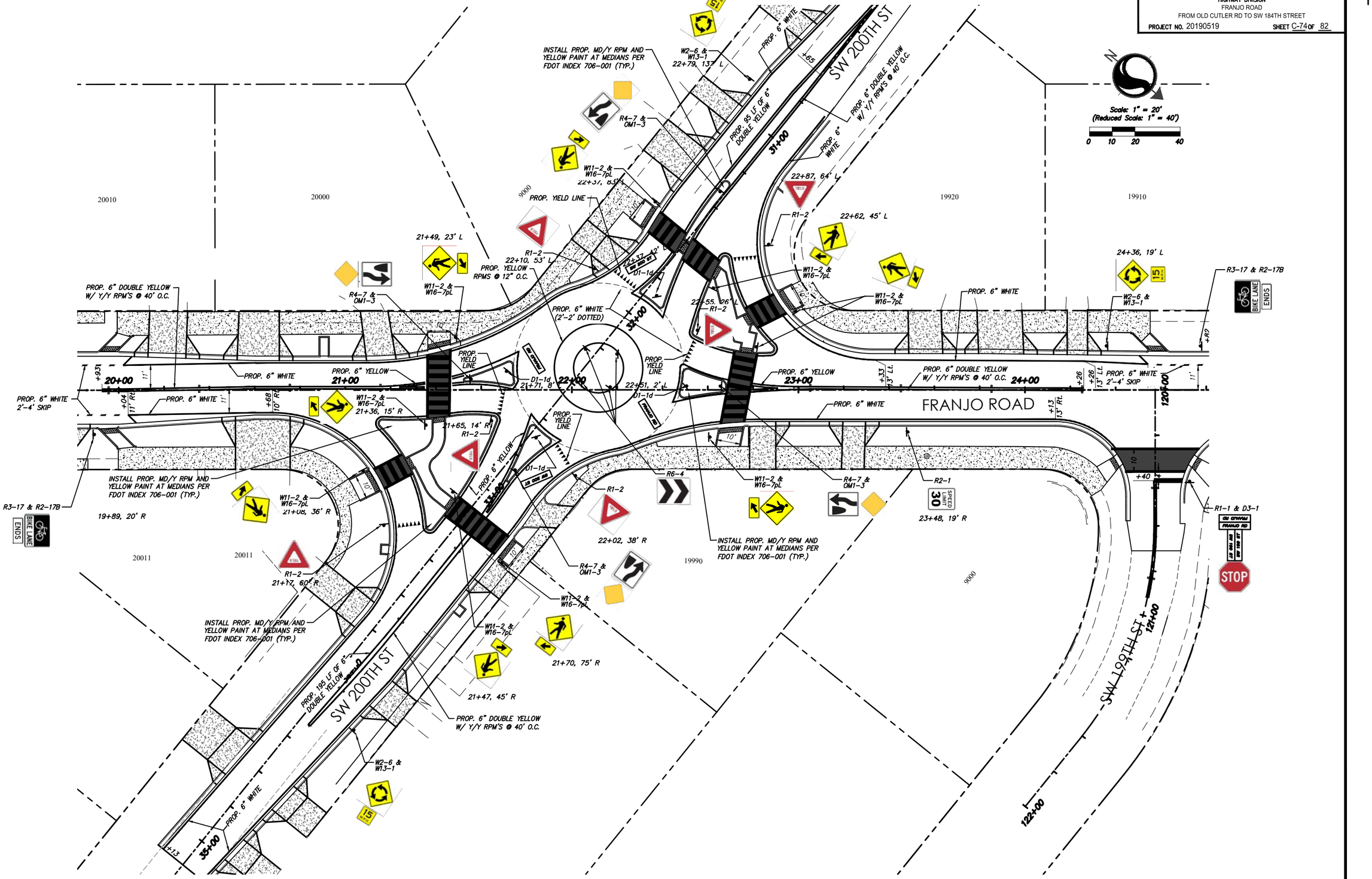
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

PAVEMENT MARKINGS

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 20190519 SHEET C-74 OF 82



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

PAVEMENT MARKINGS

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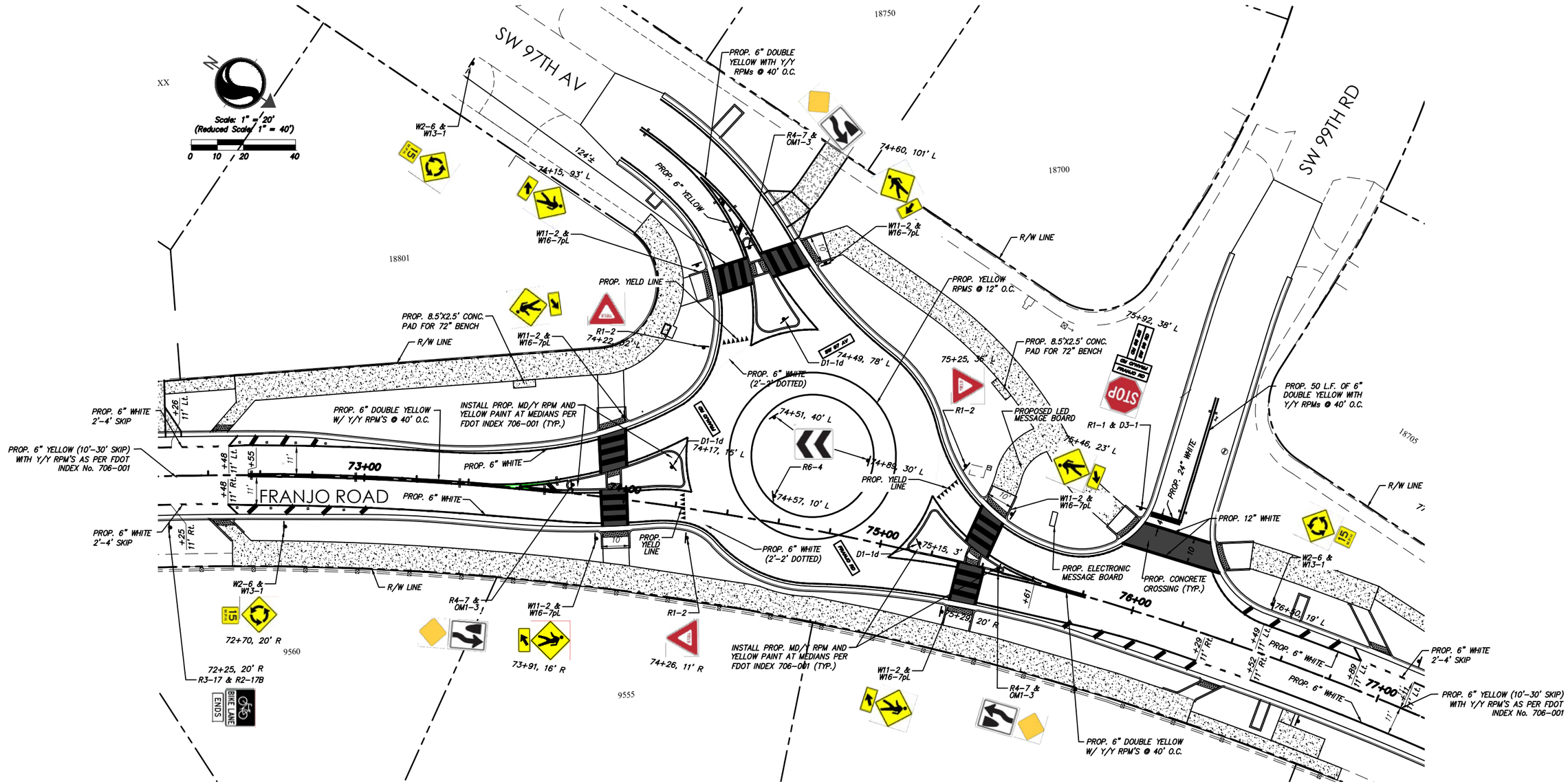

PLOTTED BY: MORALES, ROD DATE: 7/10/2023 5:14 PM
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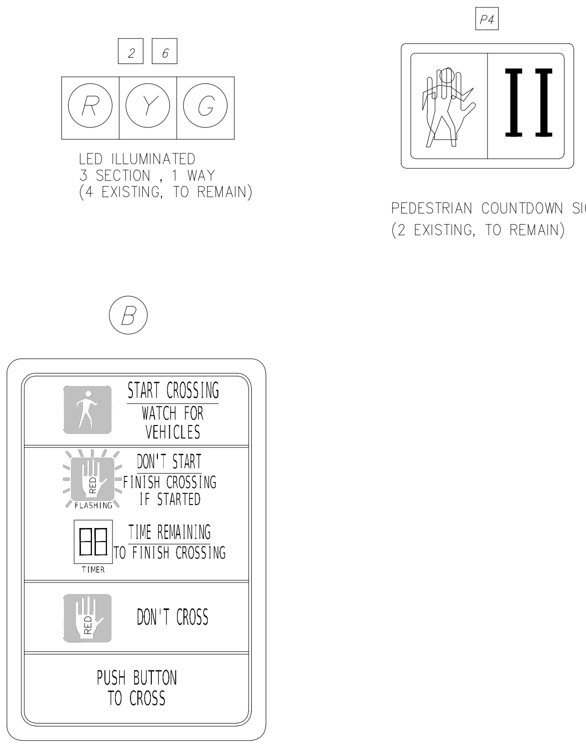
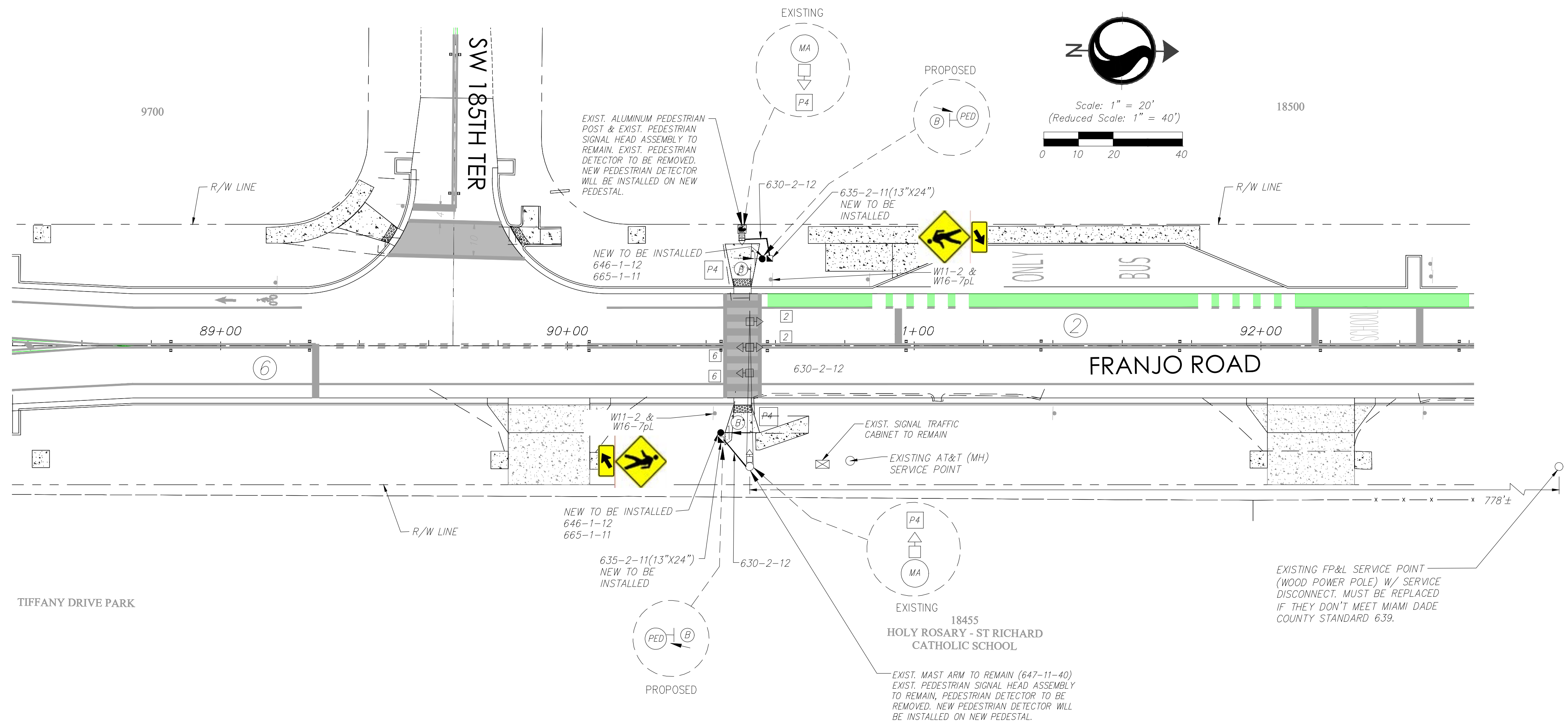
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

PAVEMENT MARKINGS

DETAIL OF SIGNAL HEADS





CONTROLLER OPERATIONS

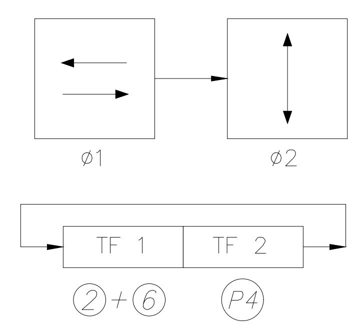
1. MAJOR STREET IS : FRANJO RD, PHASE 1 (MOVEMENTS 2 & 6)
   MINOR STREET: PEDESTRIAN MOVEMENT PHASE 2 (P4)
2. STANDARD SIGNAL OPERATING PLAN NO. 17 WITH THE FOLLOWING:

(A) COORDINATION ON PHASE 1 (MOVEMENTS 2 & 6).

(B) ACTUATED PEDESTRIANS FOR PHASE 2 (P4)

(C) FLASHING OPERATION: MOVEMENTS 2 & 6 – YELLOW

REMOVAL ITEMS		
ITEM NO.	ITEM DESCRIPTION	QTY
665-1-60	PEDESTRIAN DETECTOR	2



SIGNAL OPERATION PLAN

CONTROLLER TIMING REFERENCE TABLE

	VEHICLE MOVEMENT	1	2	3	4	5	6	7	8
FUNCTION	APPROACH DIRECTION	–	SB	–	–	–	NB	–	–
	APPROACH POSTED SPEED	–	30	–	–	–	30	–	–
	ALL RED DISTANCE	–	40	–	–	–	118	–	–
	YELLOW CLEARANCE	–	4.0	–	–	–	4.0	–	–
	ALL RED CLEARANCE	–	2.0	–	–	–	2.0	–	–
			P2		P4		P6		
FUNCTION	PED. CROSSING DISTANCE	–	–	–	30	–	–	–	–
	PEDESTRIAN WALK	–	–	–	10	–	–	–	–
	PEDESTRIAN CLEARANCE	–	–	–	8	–	–	–	–

SIGNAL TIMINGS ARE APPROXIMATE AND FINAL TIMINGS SHALL BE PROVIDED BY D.C.P.W. SIGNALS & SIGN DIVISION

FRANJO RD. BET. SW 184 186 ST
SIGNALIZATION PLAN
INT. ID# 3416

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HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
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MIAMI, FLORIDA 33128

SIGNALIZATION PLANS

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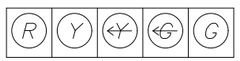
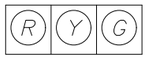
DETAIL OF SIGNAL HEADS

3/8 7/4



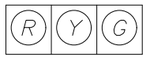
LED ILLUMINATED
5 SECTION , 1 WAY
(2 PROPOSED)
ITEM NO. 650-1-18

4 8



LED ILLUMINATED
3 SECTION , 1 WAY
(4 EXISTING, TO REMAIN)

2 6



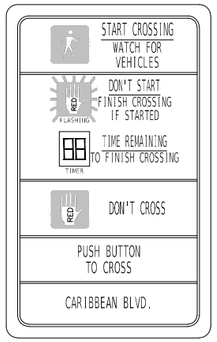
LED ILLUMINATED
3 SECTION , 1 WAY
(2 EXISTING, TO BE RELOCATED)
ITEM NO. 650-1-74

P2 P4 P6 P8

PEDESTRIAN COUNTDOWN SIGNAL
(8 EXISTING)

REMOVAL ITEMS		
ITEM NO.	ITEM DESCRIPTION	QTY
650-1-60	TRAFFIC SIGNAL HEAD ASSEMBLY	2

Ⓒ



R10-3N
(4 EXISTING)

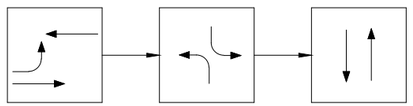
Ⓧ

LED ILLUMINATED STREET SIGN
(2 EXISTING)

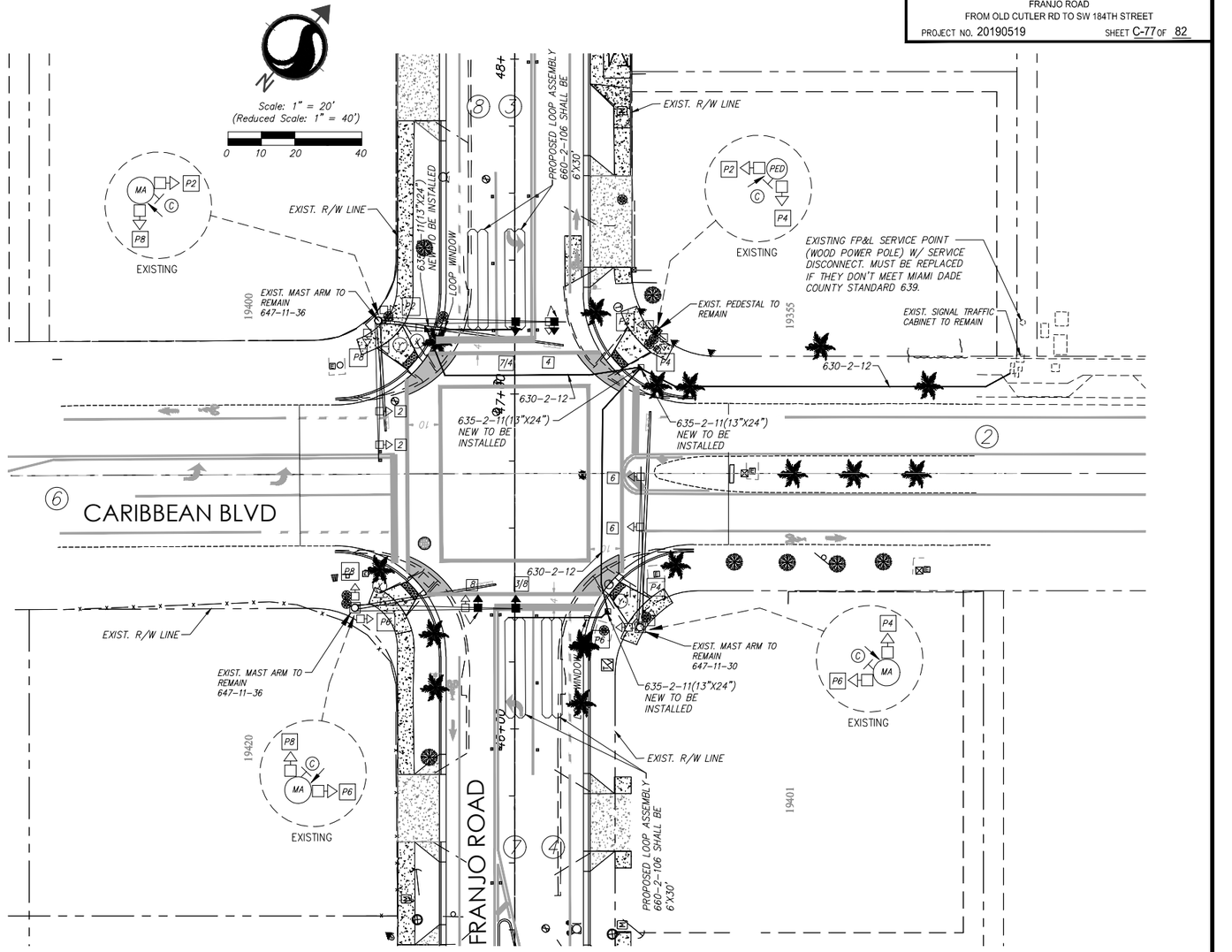
Ⓨ

LED ILLUMINATED STREET SIGN
(2 EXISTING)

DETECTORS FOR LOOPS		
MVM'T NO.	NO. OF LOOPS	NO. OF DETS.
L-3	1	1
L-4	1	1
L-7	1	1
L-8	1	1



SIGNAL OPERATION PLAN



CONTROLLER TIMING REFERENCE TABLE									
VEHICLE MOVEMENT		1	2	3	4	5	6	7	8
FUNCTION	APPROACH DIRECTION	–	WB	–	NB	–	EB	–	SB
	APPROACH POSTED SPEED	–	30	–	30	–	30	–	30
	ALL RED DISTANCE	–	52	–	61	–	51	–	61
	YELLOW CLEARANCE	–	3.7	–	3.7	–	3.7	–	3.7
	ALL RED CLEARANCE	–	2	–	2	–	2	–	2
			P2		P4		P6		P8
FUNCTION	PED. CROSSING DISTANCE	–	57	–	65	–	57	–	64
	PEDESTRIAN WALK	–	7	–	7	–	7	–	7
	PEDESTRIAN CLEARANCE	–	14	–	16	–	14	–	16

SIGNAL TIMINGS ARE APPROXIMATE AND FINAL TIMINGS SHALL BE PROVIDED BY D.C.P.W. SIGNALS & SIGN DIVISION

CONTROLLER OPERATIONS

1. MAJOR STREET IS CARIBBEAN BLVD, MINOR STREET IS FRANJO RD
2. SIGNAL OPERATING PLAN AS SHOWN
3. PHASE(S) 2 ACTUATED, PHASE 1 RECALL
4. MOVEMENT(S) N/A IS(ARE) PROTECTED/PERMISSIVE
5. SIGNAL COORDINATION PHASE IS 1
6. FLASHING OPERATION: 2 , 6 YELLOW; 4 & 8 RED

NOTES:

1. THE DEMAND WATTAGE FOR THIS INTERSECTION IS XXX WATTS.
2. REMOVE ALL PAVEMENT MARKINGS, RAISED PAVEMENT MARKERS AND SIGNS IN CONFLICT WITH THIS PLAN.
3. REMOVE EXISTING SIGNAL EQUIPMENT AND RETURN UNDAMAGED TO MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT, SIGNAL AND SIGNS DIVISION (7100 N.W. 36 ST)
4. SIGNAL TIMING SHALL BE PROVIDED BY MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT.
5. PAVEMENT MARKING ARE SHOWN FOR INFORMATION ONLY. SEE SIGNING & PAVEMENT MARKING PLANS.

FRANJO RD. & CARIBBEAN BLVD
SIGNALIZATION PLAN
INT. ID# 3968

REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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

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CHECKED BY	CMH		CHECKED BY	CMH	

SUPERVISED BY:

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

SIGNALIZATION PLANS

PLOTTED BY: MORALES, ROD DATE: 2/17/2023 2:24 PM
CREATED: 2023-02-17 - V:\2154\ACTIVE\21561952\CIVIL\DESIGN\DRAWING\CIVIL PLANS\19952 SIGNALIZATION.DWG

TABULATION OF SIGNALIZATION QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBER C-76 ORIG.	C-76 FINAL	C-77 ORIG.	C-77 FINAL	ORIG.	FINAL	ORIG.	FINAL	TOTAL THIS SHEET ORIG.	TOTAL THIS SHEET FINAL	GRAND TOTAL ORIG.	GRAND TOTAL FINAL
630-2-12	CONDUIT (UNDER PAVEMENT) FURNISH & INSTALL DIRECTIONAL BORE	LF	28		329								357	
635-2-11	PULL BOXES, FURNISH & INSTALL, 13"X24" COVER SIZE.	EA	2		3								5	
646-1-11	ALUMINUM SIGNAL PEDESTRIAN POLE, FURNISH & INSTALL	EA	2		0								2	
646-1-12	ALUMINUM SIGNAL POLE, FURNISH & INSTALL	EA	2		0								2	
650-1-18	FURNISH AND INSTALL TRAFFIC HEAD (1 WAY, 5 SECTIONS) (BACKPLATES INCLUDED)	AS	0		2								2	
660-2-106	LOOP ASSEMBLY, FURNISH & INSTALL (TYPE F, 6'X30')	EA	0		4								4	
650-1-60	REMOVE TRAFFIC HEAD (1 WAY, 3 SECTIONS)	AS	0		2								2	
650-1-74	RELOCATE TRAFFIC HEAD (1 WAY, 3 SECTIONS)	AS	0		2								2	
665-1-60	REMOVE PEDESTRIAN DETECTOR	EA	2		0								2	

NOTES

1. ALL TRAFFIC SIGNALIZATION CONDUIT AND WIRING SHALL BE IN ACCORDANCE WITH SIGNALIZATION PLANS AND SHALL BE SUFFICIENT QUANTITY FOR COMPLETE INSTALLATION.
2. ALL HARDWARE INCIDENTAL TO THE COMPLETE SIGNALIZATION AS INDICATED ON PLAN SHEETS AND SUMMARY OF QUANTITIES SHEET SHALL BE INCLUDED IN THE COST OF ITEMS SUPPLIED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE ASSEMBLY WHEN SPECIFIED IN THE TABULATION OF QUANTITIES.
4. WHEN TWO, THREE, AND FOUR WAY SIGNAL HEAD BRACKETS ARE SPECIFIED, THE TOP BRACKET SHALL BE CONSTRUCTED OF HOLLOW CAST ALUMINUM AND THE BOTTOM BRACKET SHALL BE CAST ALUMINUM, BOTH WITH STAINLESS STEEL STUDS, WASHERS, AND NUTS.
5. SIGNAL HEADS SHALL BE OF CAST ALUMINUM AND SHALL HAVE FLAT BLACK BODIES WITH FLAT BLACK TUNNEL VISORS AND DOORS. THE SIGNAL LENSES SHALL BE GLASS.
6. ALL GROUND RODS SHALL BE COPPER CLAD 5/8" X10'-0" SECTIONS WITH BONDING WIRE AND CLAMP.
7. LOOP DETECTORS SHALL BE TWO-CHANNEL "SCANNING" TYPE SHELF MODEL WITH RELAY FAIL CALL OUTPUT PER MIAMI-DADE COUNTY SPECIFICATIONS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPENSATING AT&T FOR PROVIDING AND CONNECTING SERVICE PICK-UP. THE CONTRACTOR SHALL ALSO PROVIDE PULL WIRE FOR AT&T SERVICE CONDUIT.
9. THE CONTRACTOR SHALL CONTACT FP&L AND AT&T REPRESENTATIVE PRIOR TO INSTALLING CONDUITS TO THEIR MANHOLES. THE SERVICE CONDUIT SHALL BE BROUGHT TO THE MANHOLES FROM THE SIDES AND NOT THE TOP.
10. CONTRACTOR SHALL REPLACE ENTIRE SIDEWALK FLAG WHEN SIDEWALK IS DISTURBED BY CONSTRUCTION. CONTRACTOR SHALL RESTORE EXISTING PAVEMENT MARKINGS DISTURBED BY TRENCHING OF SAW CUTTING.
11. INSTALL SPARE CONDUIT OF EQUAL LENGTH TO SIGNAL CONDUIT WITHIN SAME TRENCH.

PLOTTED BY: MORALES, ROD DATE: 2/16/2023 5:17 PM
CREATED: 2023-02-16 - V:\2154\ACTIVE\21561952\CIVIL\DESIGN\DRAWING\CIVIL PLANS\19952 SIGNALIZATION.DWG

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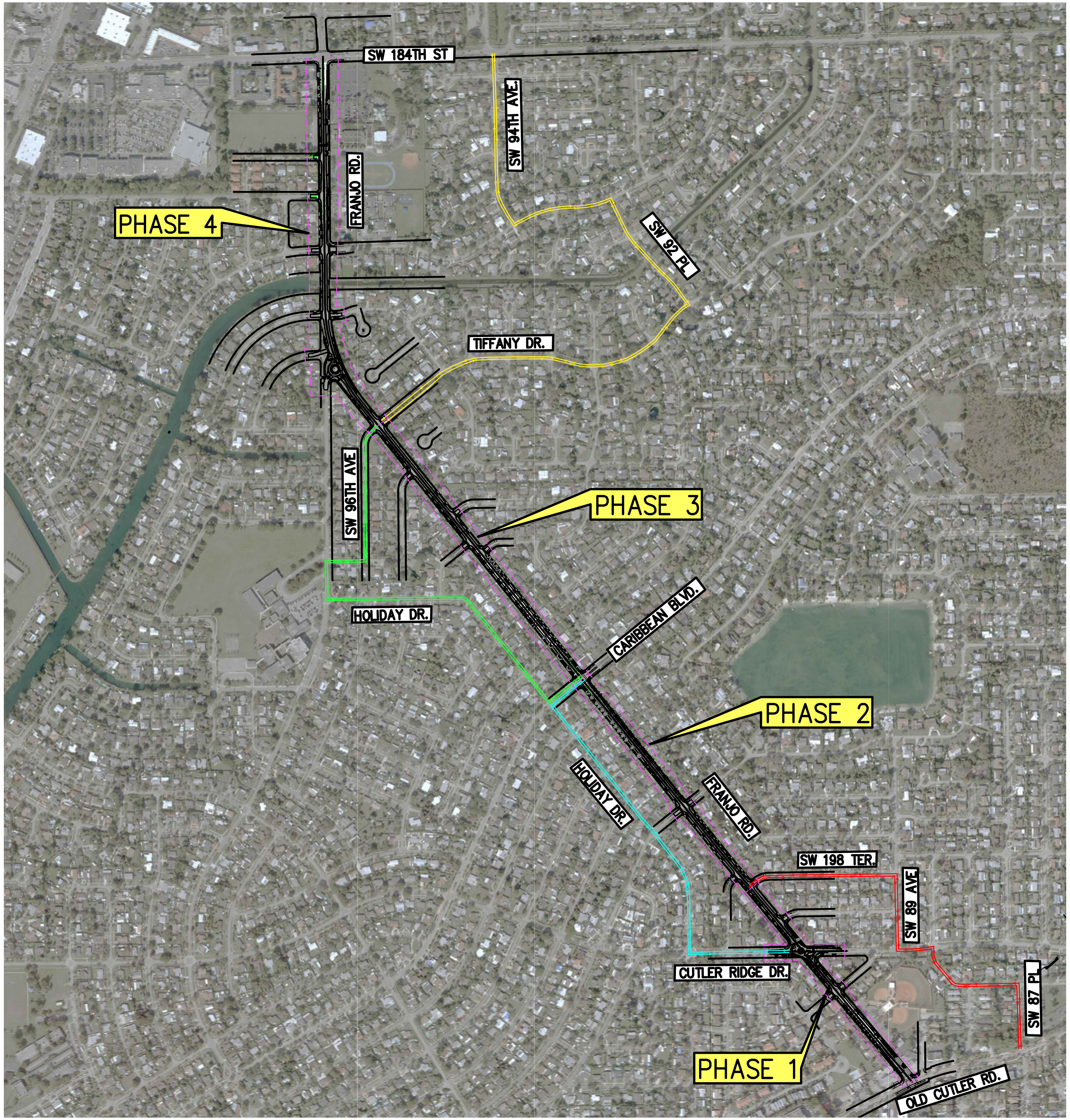
CHECKED BY	CMH		CHECKED BY	CMH	

SUPERVISED BY:

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

SIGNALIZATION PLANS



N

0 400 800

SCALE 1"=400'
(REDUCED SCALE: 1" = 800')

LEGEND:

- PHASE 1 DETOUR →
- PHASE 2 DETOUR →
- PHASE 3 DETOUR →
- PHASE 4 DETOUR →

PHASING CONSTRUCTION NOTE:

PHASING ORDER IS TO BE DETERMINED AND IS NOT REQUIRED TO BE AS NOTED ABOVE. CONTRACTOR TO SUBMIT TO MIAMI-DADE COUNTY PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT HIGHWAY DIVISION AND TOWN OF CUTLER BAY FOR APPROVAL.

811 KNOW WHAT'S BELOW ALWAYS CALL 811 BEFORE YOU DIG
It's fast. It's free. It's the law.
www.callsunshine.com

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 CONSTRUCTION. 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 MIAMI-DADE COUNTY AND SUNSHINE STATE ONE CALL OF FLORIDA, INC. @ 811 AT LEAST FORTY EIGHT (48) HOURS PRIOR TO EXCAVATING. EVIDENCE OF SUCH NOTICE SHALL BE FURNISHED TO ENGINEER OF RECORD PRIOR TO EXCAVATING.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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DESIGNED BY	CMH	07/29/2020	DRAWN BY	MS	07/29/2020
CHECKED BY	CMH		CHECKED BY	CMH	
SUPERVISED BY:					

MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

MOT PHASING PLAN

PLOTTED BY: MORALES, ROD DATE: 2/16/2023 5:21 PM
CREATED: 2022-09-27 - V:\2156\ACTIVE\215615952\CIVIL\DESIGN\DRAWING\CIVIL PLANS\15952_MOT.DWG

GENERAL NOTES

1. TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH THE PROJECT PLANS, THE MIAMI-DADE COUNTY PUBLIC WORKS MANUAL AS PERTAINS TO MAINTENANCE OF TRAFFIC, THE 2023-24 EDITION OF THE FLORIDA DOT DESIGN STANDARDS (102-600 SERIES), THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS MINIMUM CRITERIA

2. THE CONTRACTOR SHALL DEVELOP MAINTENANCE OF TRAFFIC PLAN OF HIS OWN, MEETING THE REQUIREMENTS SPECIFIED IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION AND THE FDOT INDEX 102-600 SERIES. THE CONTRACTOR'S MAINTENANCE OF TRAFFIC PLANS SHALL BE SUBMITTED TO THE TRAFFIC ENGINEERING DIVISION FOR REVIEW AND APPROVAL PRIOR TO START OF CONSTRUCTION. THE PLANS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.

3. TEMPORARY PAVEMENT SHALL CONSIST OF A MINIMUM OF 6 INCH LIMEROCK BASE, PRIME COAT AND HMA. THE BASE LAYER SHALL BE PLACED OVER A FIRM, UNYIELDING, WELL-COMPACTED SUBGRADE. COST OF CONSTRUCTION AND REMOVAL OF TEMPORARY PAVEMENT TO BE INCLUDED IN PAY ITEM 339-1 TEMPORARY PAVEMENT.

4. NOTIFICATION OF LANE CLOSURES OR TEMPORARY DETOURS SHALL BE ACCOMPLISHED 14 WORKING DAYS PRIOR TO CLOSURE OR DETOUR BY COORDINATING WITH MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT'S TRAFFIC ENGINEERING DIVISION AND TRAFFIC CONTROL CENTER.

5. AT THE DISCRETION OF THE TRAFFIC ENGINEER, IF A LANE CLOSURE CAUSES EXTENDED CONGESTION OR DELAY, THE CONTRACTOR SHALL BE DIRECTED TO REOPEN THE CLOSED LANE(S) UNTIL SUCH TIME THAT THE TRAFFIC FLOW HAS RETURNED TO AN ACCEPTABLE LEVEL.

6. THE TRAFFIC AND TRAVEL WAYS SHALL NOT BE ALTERED BY THE CONTRACTOR TO CREATE A WORK ZONE UNTIL ALL LABOR AND MATERIAL ARE AVAILABLE FOR THE CONSTRUCTION IN THAT AREA.

7. LANE CLOSURE SHALL OCCUR ONLY DURING NON-PEAK HOURS ON NONEVENT DAYS/NIGHTS. NO INTERRUPTION TO TRAFFIC IS PERMITTED FROM MONDAY-FRIDAY 7-9 A.M. AND 4-6 P.M. OR ON WEEKENDS AND HOLIDAYS OR DURING SCHOOL ARRIVAL OR DISMISSAL PERIODS IN THE VICINITY OF SCHOOLS.

8. REGULATORY SPEED ESTABLISHED WITHIN THE WORK ZONE TRAVEL WAYS SHALL BE 20 M.P.H. REDUCED SPEED AND REGULATORY SPEED SIGNS SHALL BE INSTALLED ON SEPARATE POSTS IN ACCORDANCE WITH THE STANDARD INDEXES AND MUTCD.

9. CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY DURING ALL PHASES OF CONSTRUCTION. LOCAL RESIDENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE GIVEN ACCESS TO THEIR PROPERTY DURING ALL PHASES OF CONSTRUCTION. LOCAL RESIDENTS INCLUDE ALL COMMERCIAL ESTABLISHMENTS AND BUSINESSES.

10. SIGNS ARE TO BE LOCATED BEFORE EACH BUSINESS OR SHOPPING PLAZA ENTRANCE WHERE CONSTRUCTION NEGATIVELY IMPACTS THE ACCESS TO THE BUSINESS OR SHOPPING PLAZA OR AS DIRECTED BY THE ENGINEER. TWO SIGNS WILL TYPICALLY BE REQUIRED AT EACH ENTRANCE. SIGNS ARE TO BE DISPLAYED AS DESCRIBED IN INDEX 102-600 OF THE ROADWAY AND TRAFFIC DESIGN STANDARDS.

11. AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL COVER WORK ZONE SIGNS WHEN CONDITIONS NO LONGER WARRANT THEIR USE. COST OF COVERING AND UNCOVERING THE SIGNS SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.

12. CONTRACTOR SHALL REMOVE, RELOCATE, OR COVER ANY EXISTING OR PROPOSED SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS. WHEN THE CONFLICT NO LONGER EXISTS, THE CONTRACTOR SHALL RESTORE THE SIGNS TO THEIR ORIGINAL POSITION. COST OF TEMPORARILY REMOVING, RELOCATING, COVERING, AND RESTORING THE SIGNS SHALL BE INCLUDED IN THE PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.

13. EACH EXISTING STREET NAME AND TRAFFIC SIGN AFFECTED BY CONSTRUCTION SHALL BE RELOCATED AND MAINTAINED IN AN APPROPRIATE LOCATION FOR THE DURATION OF THE PROJECT. WHEN NO LONGER AFFECTED BY CONSTRUCTION, THESE SIGNS SHALL BE RESTORED IN THEIR ORIGINAL POSITION AND CONDITION. IF DAMAGED, SIGNS ARE TO BE REPLACED. COST OF TEMPORARILY RELOCATING AND RESTORING THE SIGNS SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.

14. THE CONTRACTOR SHALL NOT PROPOSE ANY ALTERNATIVE TRAFFIC CONTROL PLAN THAT REDUCES THE NUMBER OF TRAVEL LANES SHOWN ON THE CONTRACT TRAFFIC CONTROL PLANS.

15. ARROWS ON THE TRAFFIC CONTROL PLAN DENOTE THE DIRECTION OF TRAFFIC ONLY AND DO NOT REFLECT PAVEMENT MARKINGS UNLESS SPECIFICALLY NOTED.

16. FOR DROP-OFF, THE CONTRACTOR'S ATTENTION IS DIRECTED TO FDOT STANDARD INDEX NO. 102-600, SHEET 8 OF 11. THE CONTRACTOR SHALL USE SHOULDER TREATMENT DETAIL WHEN NO BARRIERS ARE REQUIRED IN THE PLANS.

17. DURING ASPHALT CONSTRUCTION OPERATIONS, NO MORE THAN 1¼" DROP-OFF BETWEEN ADJACENT TRAVEL LANES OR AT TRANSVERSE JOINTS SHALL BE ALLOWED WHEN LANES ARE OPEN TO TRAFFIC. WHERE DROP OFF CONDITIONS EXIST, THE SIGNING FOR UNEVEN PAVEMENT SHALL BE INSTALLED FOR THE DURATION OF THE CONDITION (W8-9AP).

18. THE CONTRACTOR IS TO PLACE TEMPORARY OR REMOVABLE PAVEMENT MARKINGS BETWEEN EACH LAYER OF PAVEMENT, AND IS RESPONSIBLE FOR THE TEMPORARY RELOCATION OF STOP BARS & STOP SIGNS AS APPLICABLE. PAVEMENT MARKINGS AND BARRICADES PLACEMENT SHALL BE APPROPRIATELY COORDINATED.

19. THE CONTRACTOR SHALL REMOVE ANY EXISTING OR TEMPORARY PAVEMENT MARKINGS THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS. GRINDING OR MILLING SHALL ONLY BE PERMITTED IN NON-TRAFFIC AREAS. COST OF REMOVAL OF TEMPORARY PAVEMENT MARKINGS, REGARDLESS OF METHOD, IS INCLUDED IN THE RELATED PAY ITEMS. USE OF BLACK PAINT TO COVER EXISTING AND/OR TEMPORARY PAVEMENT MARKINGS IS PROHIBITED.

20. TEMPORARY RAISED PAVEMENT MARKERS (RPMS) SHALL BE INSTALLED ON THE EDGE, CENTER, AND LANE LINES OF ALL CROSS-OVERS, TRANSITIONS, AND TANGENT SECTIONS WITHIN THE WORK ZONE WHERE THE VEHICLE PATHS ARE ALTERED. THE SPACING FOR THESE RPMS SHALL BE 40 FT. ON CENTERS FOR TANGENT SECTIONS AND 5 FT. FOR TRANSITIONS, CURVES, AND CROSSOVERS. THE RPMS SHALL EXTEND 100 FT. ON THE TANGENT SECTION BEYOND EACH END OF THESE CROSSOVERS OR TRANSITION AREAS. COST OF THE TEMPORARY RPMS SHALL BE INCLUDED IN THE PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.

21. CONTRACTOR SHALL NOTIFY MIAMI-DADE COUNTY TRAFFIC SIGNS AND SIGNALS DIVISION LOCATED AT 7100 NW 36 STREET, MIAMI, FLORIDA 33166 AND PHONE NO. (305) 592-3470, AND FDOT PHONE NO. (305) 640-7249, 48 HOURS PRIOR TO ANY MODIFICATION OF AN EXISTING TRAFFIC SIGNAL SYSTEM. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR THE MAINTENANCE OF THE EXISTING OR TEMPORARY TRAFFIC SIGNAL(S) WITHIN THE PROJECT LIMITS. COST OF RELOCATING TRAFFIC SIGNAL HEADS, PROVIDING AND REMOVING TEMPORARY SIGNALS, AND MAINTAINING THE EXISTING TEMPORARY TRAFFIC SIGNAL SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC. CONTRACTOR TO SUBMIT A DETAILED LANE CLOSURE FORM, NOTING WORK AND TIME PHASES TO THE DEPARTMENT AT LEAST TWO (2) WEEKS PRIOR TO ACTUAL LANE CLOSURE WORK WITHIN THE FDOT RIGHT OF WAY. THERE SHALL BE NO LANE CLOSURES BETWEEN THANKSGIVING AND NEW YEAR'S EVE. WORKING HOURS WITHIN THE FDOT RIGHT OF WAY SHALL BE BETWEEN THE HOURS OF 9:30 AM AND 3:30 PM.. MOT MUST BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS- INDEX 102-600 SERIES AND M.U.T.C.D. AS A MINIMUM.

22. WHEN CONSTRUCTION ACTIVITIES INVOLVE SIDEWALKS ON BOTH SIDES OF THE STREET, EFFORTS SHOULD BE MADE TO STAGE THE CONSTRUCTION SO BOTH SIDEWALKS ARE NOT OUT OF SERVICE AT THE SAME TIME.

23. IN THE EVENT THAT SIDEWALKS ON BOTH SIDES OF THE STREET ARE CLOSED, PEDESTRIANS SHALL BE GUIDED AROUND THE CONSTRUCTION ZONE.

24. THE PROPOSED SIGNALS SHALL BE INSTALLED AND OPERATIONAL PRIOR TO THE REMOVAL OF THE EXISTING SYSTEM AND SHALL BE ADJUSTED TO THE TRAFFIC NEEDS FOR EACH CONSTRUCTION PHASE.

25. THE CONTRACTOR SHALL MAINTAIN ON-LINE COMMUNICATION OF EXISTING OR TEMPORARY SIGNALIZATION VIA INTERCONNECT OR PHONE LINE CONSTRUCTION. CONTRACTORS SHALL PROVIDE TEMPORARY LINES AND CONNECTIONS IF NECESSARY. COST OF MAINTAINING COMMUNICATION, INCLUDING TEMPORARY LINES AND CONNECTIONS SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.

26. INTERSECTIONS SHALL BE RECONSTRUCTED WORKING ON A CONTINUOUS DAILY BASIS UNTIL COMPLETE AND UNTIL STRUCTURAL COURSE IS IN PLACE.

27. AT ALL INTERSECTING STREETS, NO LESS THAN ONE "ROAD CONSTRUCTION AHEAD" SIGN AND ONE "END CONSTRUCTION" SIGN MUST BE INSTALLED. (TWO EACH FOR STREETS WITH MEDIAN).

28. ADJACENT INTERSECTIONS SHALL NOT BE CONSTRUCTED SIMULTANEOUSLY UNLESS DIRECTED BY THE ENGINEER. FOR EVERY BLOCK, CONSTRUCTION OF DRAINAGE AND SIDEWALK SHOULD BE CONCURRENT WITH ROADWAY CONSTRUCTION.

29. MOT TRANSITIONS AND TEMPORARY INTERSECTION CROSSOVERS WHERE CONSTRUCTION HAS CAUSED GRADE DIFFERENCES BETWEEN THE EXISTING AND NEW ROADWAYS SHALL BE CONSTRUCTED USING A 1:20 TYPE HMA SLOPE TO ACCOMMODATE VEHICULAR TRAFFIC FROM ANY DIRECTION. ALL MATERIAL, WORK, INCLUDING ITS REMOVAL, SHALL BE INCLUDED IN PAY ITEM 102-1 AND 339-1, MAINTENANCE OF TRAFFIC AND TEMPORARY PAVEMENT.

30. COORDINATION WITH DADE COUNTY PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT WILL BE REQUIRED.

31. PAVED TEMPORARY CONNECTIONS SHALL BE PROVIDED AT INTERSECTIONS AS DIRECTED BY THE ENGINEER.

32. TRAFFIC SHALL BE MAINTAINED ON A PAVED, DUST-FREE SURFACE AT ALL TIMES.

33. THE CONTRACTOR MUST MAINTAIN TWO LANES OF TRAFFIC AT ALL TIMES. ALL LANES TO BE A MINIMUM OF 10 FT. IN WIDTH.

34. PLANS INDICATE ONLY THE PHASES FOR CONSTRUCTION. MILLING AND RESURFACING OPERATIONS MUST FOLLOW THE SAME FDOT 102-600 INDEX SERIES, AND MUST BE ACCOMPLISHED AT HOURS APPROVED BY THE ENGINEER.

35. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ROADWAY LIGHTING ILLUMINATION LEVELS DURING CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN EXISTING LIGHTING OR SUPPLY TEMPORARY LIGHTING UNTIL THE PROPOSED SYSTEM IS IN OPERATION. THE CONTRACTOR SHALL SUBMIT A COMPLETE PROPOSED METHOD OF MAINTAINING LIGHTING FOR APPROVAL BY COUNTY ENGINEER PRIOR TO BEGINNING WORK. REFER TO ROADWAY LIGHTING PLANS AND OTHER APPLICABLE DRAWINGS FOR INFORMATION ON EXISTING AND PROPOSED ROADWAY LIGHTING AND DETAIL OF ROADWAY CONSTRUCTION. IF ANY PART OF THE SYSTEM IS OWNED BY F.P.&L, COORDINATE CLOSELY WITH F.P.&L.

36. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE EROSION CONTROL MEASURES TO PREVENT CLOG OF PROPOSED DRAINAGE STRUCTURES AND SEDIMENT INTRUSION ON WATERWAYS DURING CONSTRUCTION. THESE MEASURES SHALL BE APPROVED BY THE ENGINEER AND CONFORM WITH CURRENT EDITION OF THE FDOT DESIGN STANDARDS FOR EROSION CONTROL (100 SERIES).

37. CONTRACTOR MUST MAINTAIN DRAINAGE AT ALL TIMES. THE EXISTING DRAINAGE SYSTEM SHALL BE KEPT OPERATIONAL OR TEMPORARY DRAINAGE PROVIDED WHILE THE PROPOSED DRAINAGE SYSTEM IS BEING CONSTRUCTED. THE CONTRACTOR SHALL PROVIDE THE NECESSARY TEMPORARY DRAINAGE AS APPROVED BY THE ENGINEER. ALL COSTS SHALL BE INCLUDED IN THE PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.

38. AT THE END OF EACH WORK DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP OFF GREATER THAN 6 INCHES (150 MM) ADJACENT TO THE PEDESTRIAN, BICYCLE, AND WHEELCHAIR TRAVEL PATHS SHALL BE BACKFILLED FLUSH WITH SAID PATHS OR PROTECTED WITH TEMPORARY FENCE, CONCRETE BARRIER WALL OR APPROVED HANDRAIL. COST SHALL BE INCLUDED IN THE PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.

39. PEDESTRIAN, BICYCLE, AND WHEELCHAIR TRAFFIC SHALL BE MAINTAINED AND GUIDED USING APPROVED WARNING LIGHTS, SIGNING, AND DELINEATION DEVICES ON AT LEAST ONE SIDE OF THE PROJECT AT ALL TIMES THROUGHOUT THE PROJECT LIMITS. THE TRAVEL PATH SHALL BE A MINIMUM OF 4 FT. WIDE WITH A SMOOTH SURFACE THAT IS NOT SLICK AND IT SHOULD BE RAMPED AS NECESSARY FOR CONTINUITY. COST SHALL BE INCLUDED IN THE PAY ITEM 102-1, MAINTENANCE OF TRAFFIC. MIDBLOCK CROSSWALKS SHALL BE MAINTAINED WITH ADA ACCESSIBLE PATH CONNECTING BOTH SIDES OR A PEDESTRIAN M.O.T. SHALL BE SUBMITTED AND APPROVED BY TRAFFIC ENGINEERING DIVISION FOR ALTERNATE ROUTE.

40. THE CONTRACTOR SHALL FURNISH AND MAINTAIN VARIABLE MESSAGE SIGNS AS DIRECTED BY THE ENGINEER. MESSAGES FOR THE VMS SHALL BE AS DIRECTED BY THE ENGINEER. THE VMS SHALL BE IN PLACE ONE WEEK BEFORE THE START OF ANY WORK ITEMS AFFECTING THE EXISTING VEHICULAR AND PEDESTRIAN TRAFFIC. VMS INSTALLATION, OPERATION, AND REMOVAL TO BE INCLUDED IN THE PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.

41. THE CONTRACTOR MUST PROVIDE FLASHING ARROW BOARD FOR ANY LANE THAT IS CLOSED OR DIVERTED.

GENERAL NOTES

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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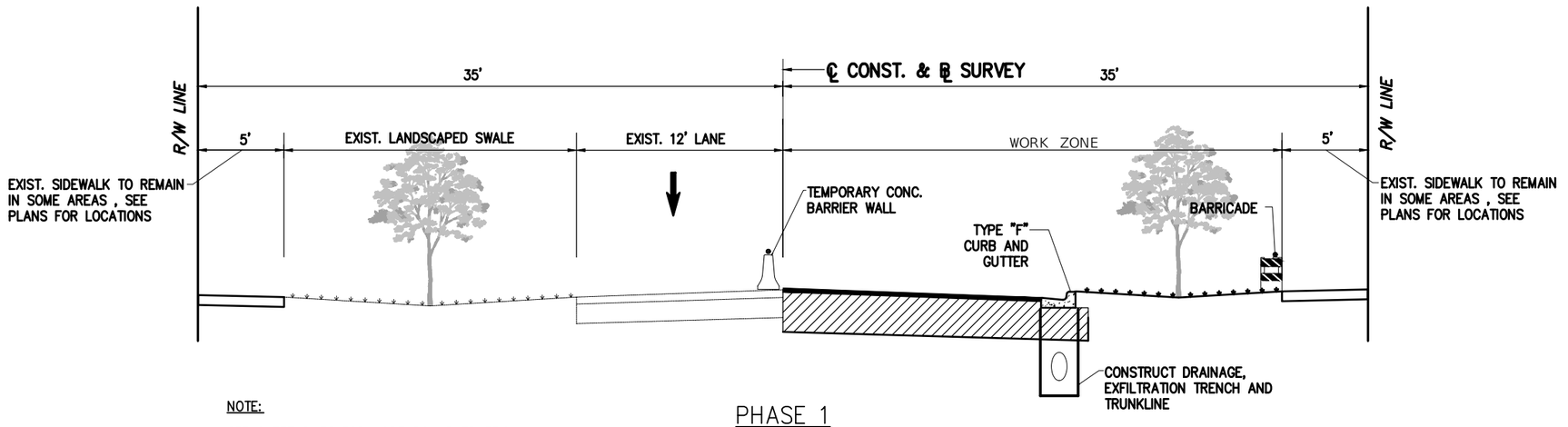
MIAMI, FLORIDA 33128

MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS



NOTE:

SEE SHEET C-78 FOR NORTHBOUND TRAFFIC DETOUR ROUTE

PHASE 1

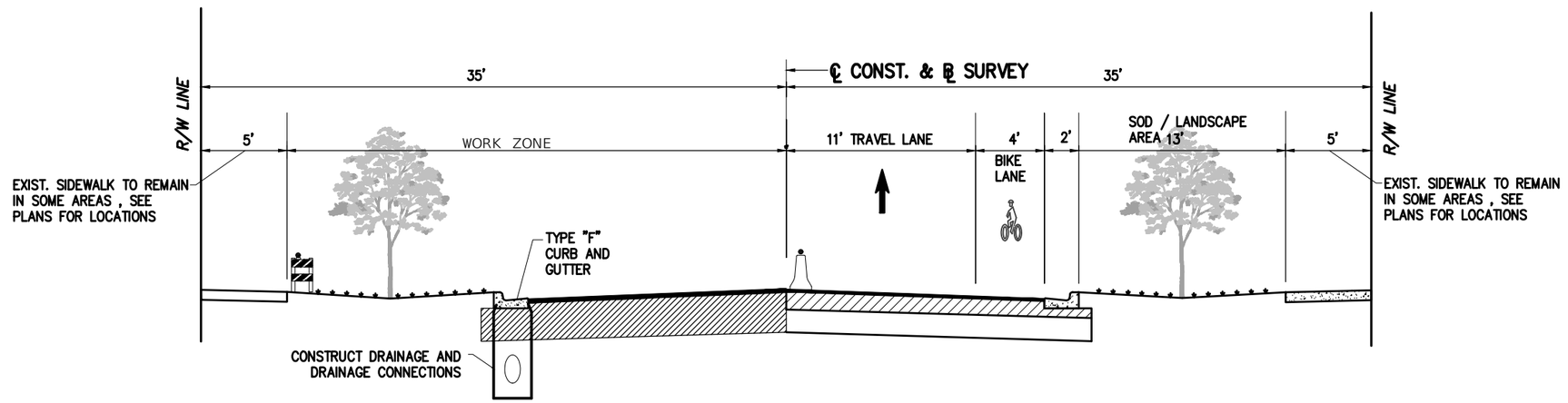
SUB-PHASE "A"

FROM STA 10+96 TO STA 27+94

N.T.S.

CONSTRUCTION SEQUENCE

PHASE 1: FROM STA 10+96 TO STA 27+94 REMOVE EXIST. PAVEMENT, CONSTRUCT EXFILTRATION TRENCH, PROPOSED PAVEMENT, SIDEWALK, CURB AND GUTTER, DRAINAGE SYSTEM AND LIGHTING. MAINTAIN 1-11' (MIN) TRAFFIC LANES IN THE EXISTING PAVEMENT AS SHOW IN TYPICAL SECTION. PROVIDE TEMPORARY SIGNAL AND PAVEMENT MARKINGS, AND BARRICADES.



NOTE:

SEE SHEET C-78 FOR SOUTHBOUND TRAFFIC DETOUR ROUTE

PHASE 1

SUB-PHASE "B"

FROM STA 10+96 TO STA 27+94

N.T.S.

PHASE 1

REVISIONS								
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HIGHWAY DIVISION
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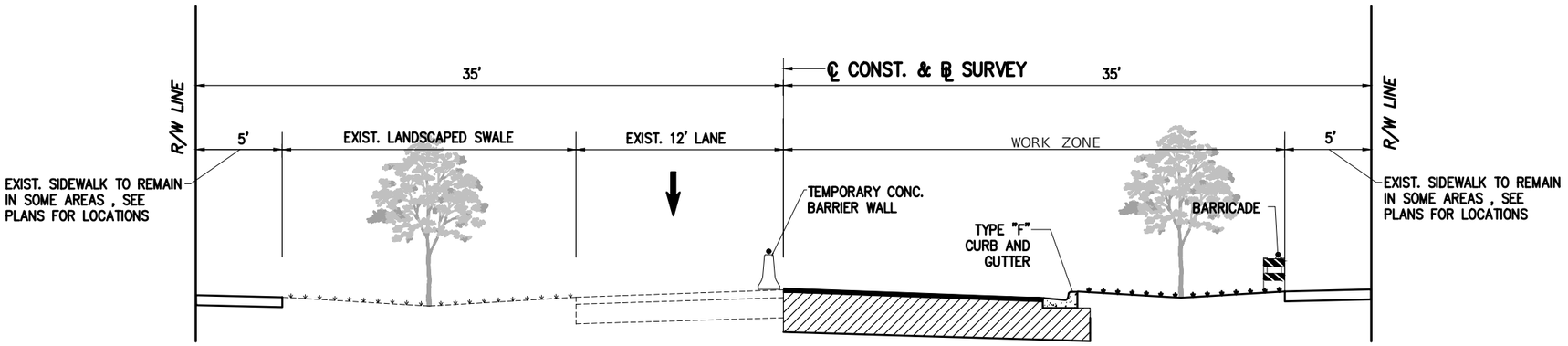
MAINTENANCE OF TRAFFIC TYPICAL SECTIONS



NOTE:

SEE SHEET C-78 FOR NORTHBOUND TRAFFIC DETOUR ROUTE

PHASE 2

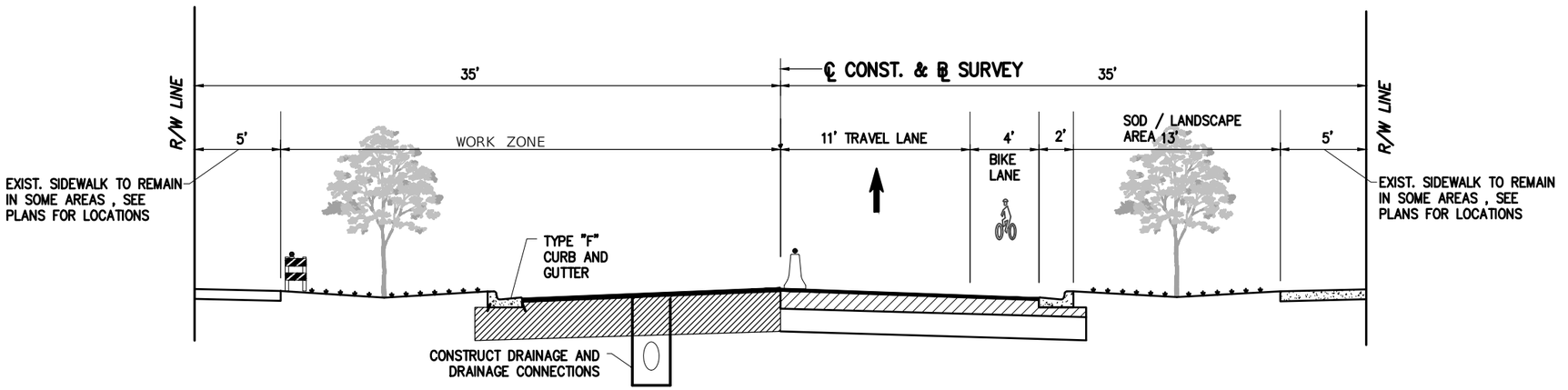
SUB-PHASE "A"

FROM STA 27+94 TO STA 46+55

N.T.S.

CONSTRUCTION SEQUENCE

PHASE 2: FROM STA 27+94 TO STA 46+55 REMOVE EXIST. PAVEMENT, CONSTRUCT EXFILTRATION TRENCH, PROPOSED PAVEMENT, SIDEWALK, CURB AND GUTTER, DRAINAGE SYSTEM AND LIGHTING. MAINTAIN 1-11' (MIN) TRAFFIC LANES IN THE EXISTING PAVEMENT AS SHOW IN TYPICAL SECTION. PROVIDE TEMPORARY SIGNAL AND PAVEMENT MARKINGS, AND BARRICADES.



NOTE:

SEE SHEET C-78 FOR SOUTHBOUND TRAFFIC DETOUR ROUTE

PHASE 2

SUB-PHASE "B"

FROM STA 27+94 TO STA 46+55

PHASE 2

REVISIONS								
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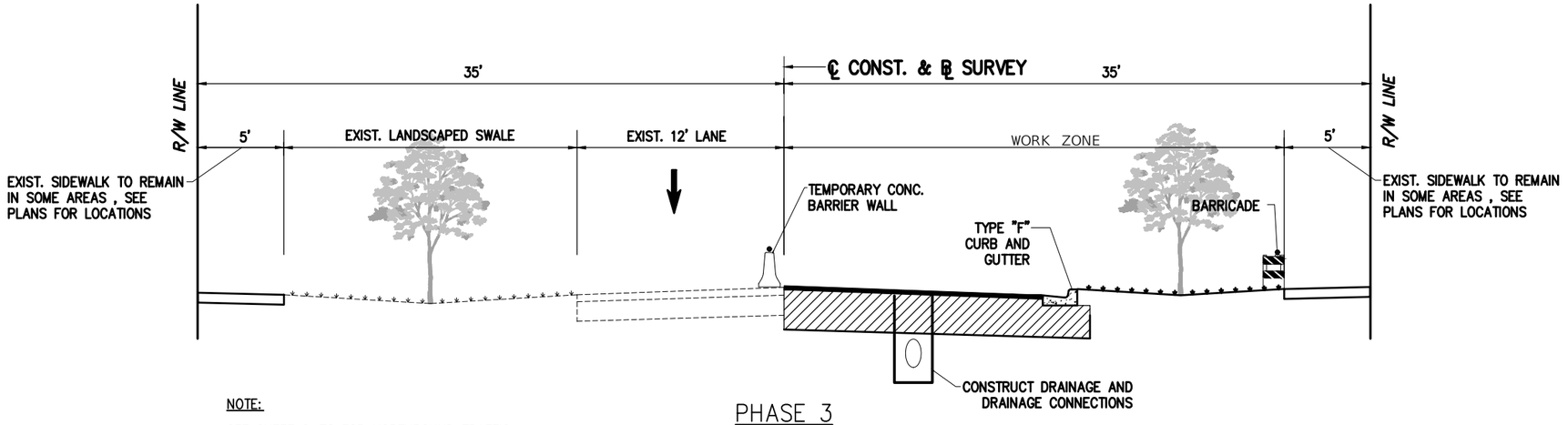
MAINTENANCE OF TRAFFIC TYPICAL SECTIONS



NOTE:

SEE SHEET C-78 FOR NORTHBOUND TRAFFIC DETOUR ROUTE

PHASE 3

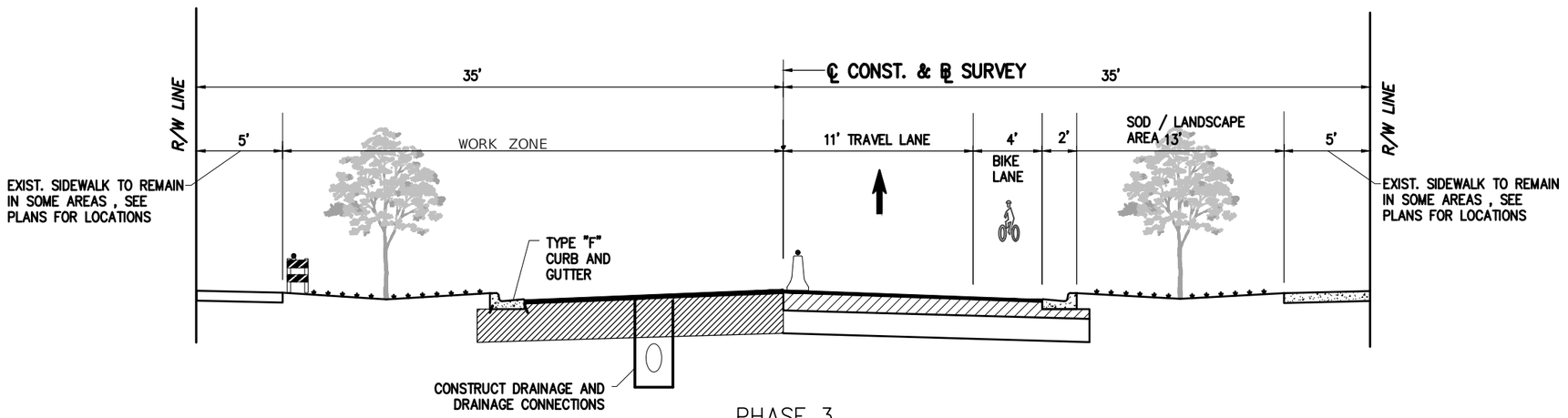
SUB-PHASE "A"

FROM STA 46+95 TO STA 69+72

N.T.S.

CONSTRUCTION SEQUENCE

PHASE 3: FROM STA 46+95 TO STA 69+72 REMOVE EXIST. PAVEMENT, CONSTRUCT EXFILTRATION TRENCH, PROPOSED PAVEMENT, SIDEWALK, CURB AND GUTTER, DRAINAGE SYSTEM AND LIGHTING. MAINTAIN 1-11' (MIN) TRAFFIC LANES IN THE EXISTING PAVEMENT AS SHOW IN TYPICAL SECTION. PROVIDE TEMPORARY SIGNAL AND PAVEMENT MARKINGS, AND BARRICADES.



NOTE:

SEE SHEET C-78 FOR SOUTHBOUND TRAFFIC DETOUR ROUTE

PHASE 3

SUB-PHASE "B"

FROM STA 46+95 TO STA 69+72

N.T.S.

PHASE 3

REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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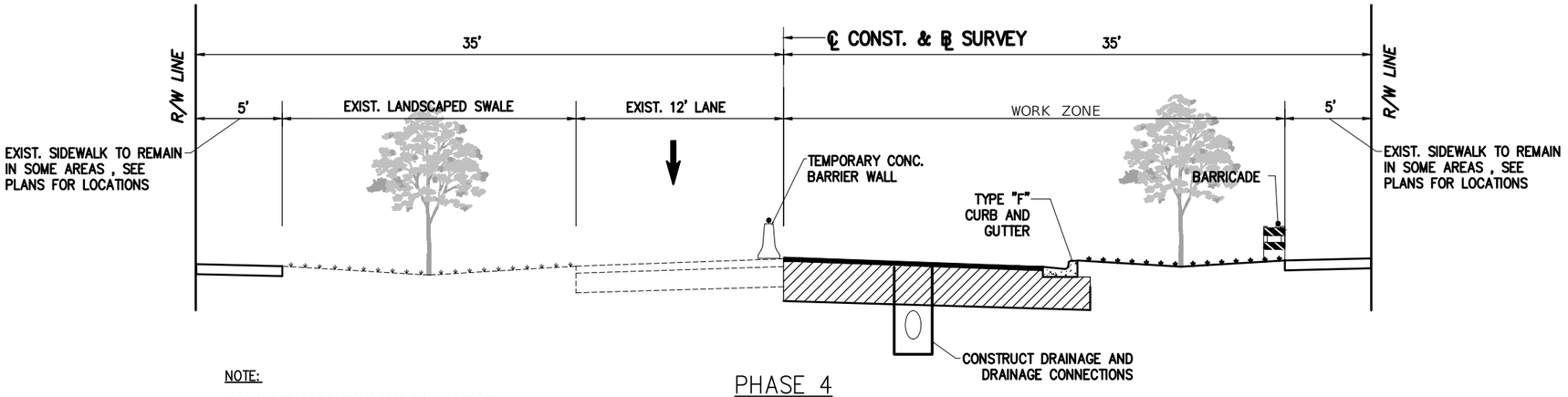
MAINTENANCE OF TRAFFIC TYPICAL SECTIONS



NOTE:

SEE SHEET C-78 FOR NORTHBOUND TRAFFIC DETOUR ROUTE

PHASE 4

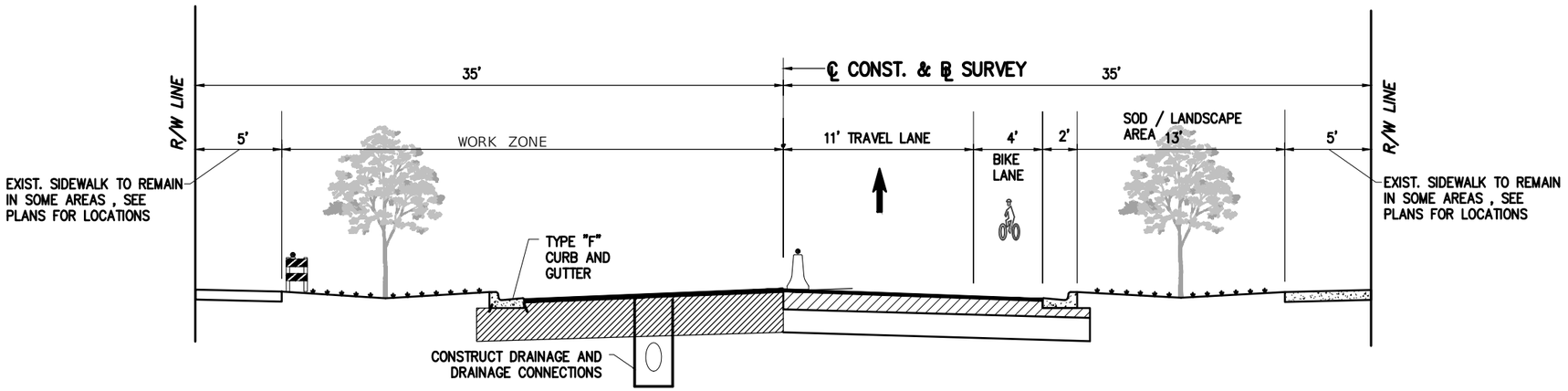
SUB-PHASE "A"

FROM STA 69+72 TO STA 95+80

N.T.S.

CONSTRUCTION SEQUENCE

PHASE 4: FROM STA 69+72 TO STA 95+80 REMOVE EXIST. PAVEMENT, CONSTRUCT EXFILTRATION TRENCH, PROPOSED PAVEMENT, SIDEWALK, CURB AND GUTTER, DRAINAGE SYSTEM AND LIGHTING. MAINTAIN 1-11' (MIN) TRAFFIC LANES IN THE EXISTING PAVEMENT AS SHOW IN TYPICAL SECTION. PROVIDE TEMPORARY SIGNAL AND PAVEMENT MARKINGS, AND BARRICADES.



NOTE:

SEE SHEET C-78 FOR SOUTHBOUND TRAFFIC DETOUR ROUTE

PHASE 4

SUB-PHASE "B"

FROM STA 69+72 TO STA 95+80

N.T.S.

PHASE 4

REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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HIGHWAY DIVISION
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MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS

LEGEND

SYMBOLS	DESCRIPTION
	LIGHT POLE COMPLETE WITH LED LUMINAIRE. ONE PULL BOX AT BASE OF POLE, SINGLE ARM, AND FRANGIBLE BASE.
	EXISTING LIGHT POLE TO BE DEMOLISHED.
	1-2" HIGH DENSITY POLYETHYLENE (HDPE) CONDUIT (UNDER PAVEMENT, DIRECTIONAL BORE), UL EPEC-80, WITH RHW-2/XLP CONDUCTORS INSIDE EACH CONDUIT: LIGHTING CIRCUIT (480V) - ONE WITH BROWN INSULATION, ONE WITH ORANGE INSULATION, AND ONE GROUND WITH GREEN INSULATION. (NUMBER AND SIZE OF CONDUCTORS AS SHOWN ON SCHEMATIC SHEETS)
	1-2" SCHEDULE 40 PVC CONDUITS WITH RHW-2/XLP CONDUCTORS INSIDE EACH CONDUIT: LIGHTING CIRCUIT (480V) - ONE WITH BROWN INSULATION, ONE WITH ORANGE INSULATION, AND ONE GROUND WITH GREEN INSULATION. (NUMBER AND SIZE OF CONDUCTORS AS SHOWN ON SCHEMATIC SHEETS) SIGN CIRCUIT - ONE WITH BLACK INSULATION, ONE NEUTRAL WITH WHITE INSULATION, AND ONE GROUND WITH GREEN INSULATION. (NUMBER AND SIZE OF CONDUCTORS AS SHOWN ON SCHEMATIC SHEETS)
■	SERVICE POINT
◪	PULL BOX

PULL BOXES REQUIRED AT EACH:

1. ONE (1) PULL BOXES AT BASE OF SERVICE POLE.
2. ONE (1) PULL BOXES AT BASE AT EACH POLE.
3. AS NECESSARY FOR COMPLETION OF THE PROJECT.

LIGHTING DESIGN CRITERIA

SOURCE: MIAMI-DADE ROADWAY LIGHTING DESIGN MANUAL 2016

DESIGN SPEED:	30 MPH
AVERAGE:	0.6fc
AVERAGE/MIN:	4:1 OR LESS
MAX/MIN:	10:1 OR LESS
VEILING LUMINANCE RATIO:	0.3:1 OR LESS
ROUNDABOUT AVERAGE:	0.78fc TO 1.2fc (1.3x TO 2x APPROACH)
ROUNDABOUT AVG/MIN:	3:1 OR LESS
MIDBLOCK CROSSWALK:	2.3fc VERTICAL
CARIBBEAN INTERSECTION:	1.7fc

FIXTURE SCHEDULE

TAG	MFGR	MODEL	DISTRIBUTION	VOLTAGE	WATTS	NOTES
A	HALOPHANE	ESL2 P20S 30K HVOLT BK TG3 LTHSS180	TYPE III	480V	83	LED LUMINAIRE, INCLUDES 180 DEGREE DEFLECTOR SHIELD AND UBICQUIA UBICELL SMART NODE MODULE IN 7-PIN RECEPTACLE AND SPARE SHORTING CAP.
B	HALOPHANE	ESL2 P40S 30K HVOLT BK TG3 LTHSS180	TYPE III	480V	140	LED LUMINAIRE, INCLUDES 180 DEGREE DEFLECTOR SHIELD AND UBICQUIA UBICELL SMART NODE MODULE IN 7-PIN RECEPTACLE AND SPARE SHORTING CAP.
C	HALOPHANE	ESL2 P10S 30K HVOLT BK SG3	TYPE III	480V	57	LED LUMINAIRE, INCLUDES UBICQUIA UBICELL SMART NODE MODULE IN 7-PIN RECEPTACLE AND SPARE SHORTING CAP.

GENERAL NOTES

1. POWER COMPANY SHALL PROVIDE INCOMING SERVICE AT LOCATION SPECIFIED IN ACCORDANCE WITH THE PLANS. THE DATE REQUIRED FOR INCOMING SERVICE TO BE COMPLETED MUST BE COORDINATED BY THE CONTRACTOR WITH THE POWER COMPANY AT THE PRE CONSTRUCTION MEETING.
2. ALL EXPOSED CONDUIT OR SURFACE MOUNTED CONDUIT SHALL BE GALVANIZED STEEL AND GROUNDED.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND STRUCTURAL CONFLICTS IN COOPERATION WITH THE UTILITY COMPANY(S).
4. STATIONING MAY BE ADJUSTED AS DIRECTED TO AVOID UTILITY OR STRUCTURAL CONFLICTS NOT INDICATED IN THE PLANS.
5. SIDEWALK SLABS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN FULL AND COLORED WHEN NECESSARY TO MATCH THE EXISTING SIDEWALK.
6. CONTRACTOR MUST MAINTAIN THE EXISTING LIGHTING SYSTEM IN OPERATION OR SUPPLY A TEMPORARY ONE UNTIL THE NEW LIGHTING SYSTEM CAN BE ACTIVATED. IF THE EXISTING LIGHTING SYSTEM IS OWNED BY F.P.&L, SEE FDOT SPECIFICATION FOR ROADWAY LIGHTING SPECIAL PROVISIONS, SECTION 715.
7. ALL MATERIAL, UNLESS OTHERWISE SPECIFIED, SHALL BE UNDERWRITERS LABORATORY APPROVED.
8. POLES, BRACKET ARMS, AND TRANSFORMER BASES SHALL BE ALUMINUM AND DESIGNED IN ACCORDANCE WITH LOCAL DESIGN CRITERIA USING THE APPLICABLE EQUATIONS FOUND IN THE AASHTO PUBLICATION "STANDARD SPECIFICATIONS FOR HIGHWAY, SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS," CURRENT EDITION.
9. THE WIRES AT THE POLE, HANDHOLE, AND PULL BOXES SHALL BE LOOPED AS INDICATED IN THE PLAN DETAIL WITH SUFFICIENT LENGTH TO COMPLETELY REMOVE CONNECTORS TO THE OUTSIDE, TO MAKE THEM ACCESSIBLE FOR CHANGING FUSES AND TROUBLE SHOOTING THE SYSTEM.
10. THE LUMINAIRE MANUFACTURER SHALL PLACE A PERMANENT TAG ON THE LUMINAIRE HOUSING ON WHICH IS IMPRINTED THE FOLLOWING INFORMATION: WATTAGE, BALLAST TYPE, LAMP SHOWN ON DESIGN PLANS, LAMP SETTING (POSITION IN LUMINAIRE), I.E.S., LIGHT DISTRIBUTION WITH THIS LAMP IN THE POSITION SPECIFIED, INPUT VOLTAGE AND POWER FACTOR, LUMINAIRE PHOTOMETRIC SUBMITTALS REQUIRED.
11. GROUND RODS SHALL HAVE A RESISTANCE TO GROUND NOT TO EXCEED 25 OHMS. WHERE THE RESISTANCE IS NOT AS LOW AS 25 OHMS, TWO OR MORE GROUND RODS CONNECTED IN PARALLEL SHALL BE USED.
12. CONTRACTOR WILL INCLUDE IN THE COST OF THE LIGHTING POLE ANY LEVELING AND GRADING REQUIRED TO INSURE THAT ALL POLES ARE INSTALLED AT THE PROPER ELEVATION.
13. ALL SALVAGEABLE MATERIALS AND ALL MATERIALS TO BE FURNISHED BY THE CONTRACTOR SHALL BE TRANSPORTED AND OFF LOADED TO THE FOLLOWING LOCATION FOR INSPECTION AND ACCEPTANCE BY THE COUNTY:
    MIAMI-DADE COUNTY MAINTENANCE YARD
    7100 NW 36th STREET
    MIAMI, FL 33166
    TELEPHONE: (305) 592-3580
14. CONTRACTOR MUST CONTACT BELL SOUTH, FP&L, AND OTHER UTILITY COMPANIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND MUST NOTIFY ENGINEER AND MIAMI-DADE COUNTY IF FIELD CONDITIONS DIFFER FROM CONDITIONS INDICATED ON THESE DRAWINGS.
15. IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (N.E.C.) OR WITH THE MIAMI-DADE COUNTY STANDARDS, THE CONTRACTOR MUST IDENTIFY ALL CIRCUITS AND EQUIPMENT INCLUDING THE PROPOSED LIGHT POLE ASSEMBLIES.
16. PULL BOXES, JUNCTION BOXES, AND ALL ELECTRICAL WORK MUST CONFORM TO N.E.C. (LATEST REQUIREMENTS), THE NATIONAL ELECTRICAL SAFETY CODE AND MIAMI-DADE COUNTY STANDARDS.
17. USE PVC SCHEDULE 40 CONDUIT THROUGHOUT THE ENTIRE UNDERGROUND SYSTEM UNLESS OTHERWISE NOTED, AT STREET CROSSINGS THE CONDUIT SHOULD BE EMBEDDED IN 1:10 CONCRETE MIXTURE.
18. ANY INCIDENTAL ITEMS OR ACCESSORIES REQUIRED TO COMPLETE THE WORK FOR A GIVEN BID ITEM, SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THAT SPECIFIC ITEM AS INDICATED IN THE BID FORM. INCIDENTAL ITEMS MAY INCLUDE, BUT ARE NOT LIMITED TO: ELBOWS, SPLIT BOLT CONNECTORS, FUSES AND FUSE HOLDERS, ELECTRICAL TAPE, SCOTCHKOTE, PVC GLUE, TRENCHING, BACKFILLING, PAVEMENT RESTORATION, CONCRETE SLAB REPLACEMENT, ETC.
19. POLES SHALL HAVE A FRANGIBLE TRANSFORMER BASE.
20. ALL GROUNDING CONNECTIONS SHALL BE EXOTHERMICALLY WELDED FOLLOWING THE MANUFACTURER'S GUIDELINES.
21. CONTRACTOR MUST MINIMIZE TRENCHING ACROSS STREETS BY COORDINATING THE LIGHT PLANS WITH THE SIGNALIZATION INTERCONNECT CONDUIT/WIRING AS DEPICTED ON THESE DRAWINGS.
22. MAINTAINING AGENCY FOR LIGHTING IS MIAMI-DADE COUNTY. CONTRACTOR MUST CONTACT/COORDINATE WITH APPLICABLE COUNTY OFFICIALS AND INSPECTORS PRIOR TO CONSTRUCTION.
23. CONTRACTOR SHALL MAINTAIN SAFE ACCESS TO SIDE STREETS, PRIVATE, AND COMMERCIAL DRIVEWAYS AT ALL TIMES DURING CONSTRUCTION.
24. ALL CONDUIT TRENCHING MUST BE PROPERLY BACKFILLED TO PROVIDE SAFE CROSSING AT THE END OF EACH WORK DAY OR WHENEVER THE WORK ONE BECOMES INACTIVE.
25. THE CONTRACTOR MUST EXERCISE EXTREME CAUTION WHEN WORKING THE VICINITY OF EXISTING AND PROPOSED UNDERGROUND AND OVERHEAD UTILITIES.
26. STREET LIGHTS MUST COMPLY WITH OSHA REQUIRED MINIMUM CLARENCE SEPARATION FROM FPL LINES AND COMMUNICATION LINES.
27. THE CONTRACTOR SHALL FURNISH SIGNED AND SEALED AS-BUILT DRAWINGS, SENT ELECTRONICALLY, WHICH ARE TO INCLUDE THE GPS COORDINATES FOR ALL INSTALLED POLES AND SERVICE POINT LOCATIONS.

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Point Number	Station	Offset	Latitude	Longitude	Description	MTG HT	Arm Length	Circuit #
1	11+00.67	21.79'	N25° 34' 44.61"	W80° 20' 08.71"	A	39 FT	6	3
2	12+12.68	21.59'	N25° 34' 45.47"	W80° 20' 09.49"	A	39 FT	6	3
3	13+20.06	21.59'	N25° 34' 46.29"	W80° 20' 10.24"	A	39 FT	6	2
4	14+19.97	-21.08'	N25° 34' 46.78"	W80° 20' 11.29"	A	39 FT	6	2
5	15+00.10	34.40'	N25° 34' 47.74"	W80° 20' 11.38"	A	39 FT	6	3
6	15+86.81	-21.42'	N25° 34' 48.05"	W80° 20' 12.45"	A	39 FT	6	2
7	16+95.08	21.09'	N25° 34' 49.15"	W80° 20' 12.85"	A	39 FT	6	3
8	17+95.27	-21.97'	N25° 34' 49.64"	W80° 20' 13.91"	A	39 FT	6	2
9	18+87.31	21.11'	N25° 34' 50.62"	W80° 20' 14.18"	A	39 FT	6	3
10	19+81.47	-21.06'	N25° 34' 51.07"	W80° 20' 15.19"	A	39 FT	6	2
11	20+44.30	18.92'	N25° 34' 51.80"	W80° 20' 15.29"	A	39 FT	6	3
12	21+31.03	-21.07'	N25° 34' 52.21"	W80° 20' 16.23"	A	39 FT	6	2
13	21+57.33	93.09'	N25° 34' 53.13"	W80° 20' 15.46"	A	39 FT	6	3
14	21+94.47	-49.74'	N25° 34' 52.52"	W80° 20' 16.92"	A	39 FT	6	2
15	22+27.75	34.33'	N25° 34' 53.30"	W80° 20' 16.44"	A	39 FT	6	3
16	22+39.86	-91.49'	N25° 34' 52.60"	W80° 20' 17.58"	A	39 FT	6	2
17	23+26.70	-23.97'	N25° 34' 53.69"	W80° 20' 17.62"	A	39 FT	6	2
18	24+11.44	-22.87'	N25° 34' 54.34"	W80° 20' 18.20"	A	39 FT	6	2
19	25+02.54	21.14'	N25° 34' 55.32"	W80° 20' 18.46"	A	39 FT	6	3
20	26+12.19	-21.18'	N25° 34' 55.89"	W80° 20' 19.58"	A	39 FT	6	2
21	27+32.19	21.62'	N25° 34' 57.08"	W80° 20' 20.05"	A	39 FT	6	3
22	28+32.26	-21.12'	N25° 34' 57.57"	W80° 20' 21.11"	A	39 FT	6	2
23	29+32.06	21.50'	N25° 34' 58.60"	W80° 20' 21.44"	A	39 FT	6	3
24	30+32.04	-21.17'	N25° 34' 59.10"	W80° 20' 22.50"	A	39 FT	6	2
25	31+47.28	21.24'	N25° 35' 00.26"	W80° 20' 22.92"	A	39 FT	6	3
26	32+46.98	-21.14'	N25° 35' 00.77"	W80° 20' 23.96"	A	39 FT	6	2
27	33+58.37	21.66'	N25° 35' 01.89"	W80° 20' 24.35"	A	39 FT	6	3
28	34+57.36	-21.37'	N25° 35' 02.40"	W80° 20' 25.39"	A	39 FT	6	2
29	35+59.35	21.34'	N25° 35' 03.45"	W80° 20' 25.72"	A	39 FT	6	3
30	36+47.05	-21.12'	N25° 35' 03.87"	W80° 20' 26.68"	A	39 FT	6	2
31	37+47.95	21.13'	N25° 35' 04.91"	W80° 20' 27.00"	A	39 FT	6	3
32	38+64.70	-21.40'	N25° 35' 05.55"	W80° 20' 28.16"	A	39 FT	6	2
33	39+74.99	21.14'	N25° 35' 06.67"	W80° 20' 28.55"	A	39 FT	6	3
34	40+94.66	-21.13'	N25° 35' 07.34"	W80° 20' 29.72"	A	39 FT	6	2
35	41+94.46	21.09'	N25° 35' 08.37"	W80° 20' 30.04"	A	39 FT	6	3
36	42+92.69	-21.12'	N25° 35' 08.87"	W80° 20' 31.07"	A	39 FT	6	2
37	43+94.54	21.13'	N25° 35' 09.92"	W80° 20' 31.40"	A	39 FT	6	3
38	44+99.75	-29.14'	N25° 35' 10.43"	W80° 20' 32.54"	A	39 FT	6	2
39	46+24.02	26.82'	N25° 35' 11.74"	W80° 20' 32.91"	B	39 FT	6	1
40	47+31.05	26.82'	N25° 35' 12.57"	W80° 20' 33.64"	B	39 FT	6	1
41	48+30.21	-29.51'	N25° 35' 12.99"	W80° 20' 34.79"	A	39 FT	6	4
42	49+14.93	23.77'	N25° 35' 13.98"	W80° 20' 34.91"	A	39 FT	6	1
43	50+16.89	-21.13'	N25° 35' 14.49"	W80° 20' 35.99"	A	39 FT	6	4
44	51+24.98	21.28'	N25° 35' 15.59"	W80° 20' 36.36"	A	39 FT	6	1
45	52+40.25	-23.16'	N25° 35' 16.21"	W80° 20' 37.52"	A	39 FT	6	4
46	53+24.63	21.09'	N25° 35' 17.14"	W80° 20' 37.72"	A	39 FT	6	1
47	54+24.65	-24.77'	N25° 35' 17.63"	W80° 20' 38.79"	A	39 FT	6	4
48	55+19.19	21.24'	N25° 35' 18.65"	W80° 20' 39.04"	A	39 FT	6	1
49	56+23.07	-33.79'	N25° 35' 19.11"	W80° 20' 40.22"	A	39 FT	6	4
50	57+26.62	21.38'	N25° 35' 20.25"	W80° 20' 40.45"	A	39 FT	6	1
51	58+26.55	-21.12'	N25° 35' 20.77"	W80° 20' 41.49"	A	39 FT	6	4

Point Number	Station	Offset	Latitude	Longitude	Description	MTG HT	Arm Length	Circuit #
52	59+26.44	22.97'	N25° 35' 21.81"	W80° 20' 41.79"	A	39 FT	6	1
53	60+05.87	-25.67'	N25° 35' 22.13"	W80° 20' 42.75"	A	39 FT	6	4
54	61+37.01	-25.46'	N25° 35' 23.15"	W80° 20' 43.64"	A	39 FT	6	4
55	62+30.77	23.61'	N25° 35' 24.18"	W80° 20' 43.86"	A	39 FT	6	1
56	63+36.51	-23.74'	N25° 35' 24.70"	W80° 20' 44.98"	A	39 FT	6	4
57	64+37.23	23.49'	N25° 35' 25.78"	W80° 20' 45.26"	A	39 FT	6	1
58	65+22.24	-24.39'	N25° 35' 26.14"	W80° 20' 46.25"	A	39 FT	6	4
59	66+26.76	21.10'	N25° 35' 27.23"	W80° 20' 46.57"	A	39 FT	6	1
60	67+22.18	-24.39'	N25° 35' 27.69"	W80° 20' 47.61"	A	39 FT	6	4
61	68+16.66	21.12'	N25° 35' 28.70"	W80° 20' 47.86"	A	39 FT	6	1
62	69+35.45	-25.11'	N25° 35' 29.34"	W80° 20' 49.06"	A	39 FT	6	4
63	70+37.01	25.87'	N25° 35' 30.44"	W80° 20' 49.32"	A	39 FT	6	1
64	71+32.23	-25.69'	N25° 35' 30.86"	W80° 20' 50.41"	A	39 FT	6	4
65	72+31.65	25.77'	N25° 35' 31.95"	W80° 20' 50.62"	A	39 FT	6	1
66	73+32.00	-18.71'	N25° 35' 32.54"	W80° 20' 51.62"	A	39 FT	6	4
67	73+83.08	18.80'	N25° 35' 33.17"	W80° 20' 51.53"	A	39 FT	6	1
68	74+18.01	-52.01'	N25° 35' 33.16"	W80° 20' 52.39"	A	39 FT	6	4
69	74+10.11	-99.57'	N25° 35' 32.88"	W80° 20' 52.82"	A	39 FT	6	4
70	74+69.87	28.35'	N25° 35' 33.97"	W80° 20' 51.83"	A	39 FT	6	1
71	75+09.03	-64.51'	N25° 35' 33.98"	W80° 20' 52.94"	A	39 FT	6	4
72	75+54.14	-21.74'	N25° 35' 34.56"	W80° 20' 52.68"	A	39 FT	6	4
73	76+43.96	25.04'	N25° 35' 35.55"	W80° 20' 52.47"	A	39 FT	6	1
74	77+32.73	-21.46'	N25° 35' 36.30"	W80° 20' 53.18"	A	39 FT	6	4
75	78+19.47	-31.19'	N25° 35' 37.16"	W80° 20' 53.42"	A	39 FT	6	4
76	79+19.72	23.77'	N25° 35' 38.19"	W80° 20' 52.89"	A	39 FT	6	1
77	80+29.54	23.87'	N25° 35' 39.27"	W80° 20' 52.89"	A	39 FT	6	1
78	81+29.23	23.87'	N25° 35' 40.26"	W80° 20' 52.90"	A	39 FT	6	1
79	82+48.22	22.37'	N25° 35' 41.44"	W80° 20' 52.92"	A	39 FT	6	1
80	83+61.14	22.40'	N25° 35' 42.56"	W80° 20' 52.92"	A	39 FT	6	1
81	84+49.77	30.10'	N25° 35' 43.43"	W80° 20' 52.84"	A	39 FT	6	1
82	85+69.74	30.10'	N25° 35' 44.62"	W80° 20' 52.85"	A	39 FT	6	1
83	86+65.92	30.10'	N25° 35' 45.58"	W80° 20' 52.85"	A	39 FT	6	1
84	87+69.87	35.81'	N25° 35' 46.61"	W80° 20' 52.79"	A	39 FT	6	1
85	88+65.30	23.70'	N25° 35' 47.55"	W80° 20' 52.93"	A	39 FT	6	1
86	89+69.13	21.46'	N25° 35' 48.58"	W80° 20' 52.96"	A	39 FT	6	1
87	90+35.19	21.08'	N25° 35' 49.23"	W80° 20' 52.97"	C	15 FT	6	1
88	90+66.87	-24.75'	N25° 35' 49.54"	W80° 20' 53.47"	C	15 FT	6	4
89	90+98.61	-26.02'	N25° 35' 49.86"	W80° 20' 53.48"	A	39 FT	6	4
90	91+69.74	21.14'	N25° 35' 50.57"	W80° 20' 52.97"	A	39 FT	6	1
91	92+69.69	-25.88'	N25° 35' 51.55"	W80° 20' 53.49"	A	39 FT	6	4
92	93+78.94	27.04'	N25° 35' 52.64"	W80° 20' 52.91"	A	39 FT	6	1
93	94+81.08	-32.67'	N25° 35' 53.65"	W80° 20' 53.57"	A	39 FT	6	4
94	95+99.46	33.68'	N25° 35' 54.82"	W80° 20' 52.85"	A	39 FT	6	1
STREET LIGHTING SERVICE POINT AND LOAD CENTER	45+52.99	33.47'	N25° 35' 10.82"	W80° 20' 32.94"				
MESSAGE BOARD SERVICE POINT	75+48.65	46.85'	N25° 35' 34.43"	W80° 20' 52.92"				

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 215615952 SHEET E-02 OF 19

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DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
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111 NW 1 ST.
MIAMI, FLORIDA 33128

POLE DATA

TABULATION OF LIGHTING QUANTITIES

			SHEET NUMBER																GRAND	
			E-04		E-05		E-06		E-07		E-08		E-09		E-10		E-11		TOTAL	
PAY ITEM NO.	DESCRIPTION	UNIT	ORIG	FINAL	ORIG	FINAL	ORIG	FINAL	ORIG	FINAL	ORIG	FINAL	ORIG	FINAL	ORIG	FINAL	ORIG	FINAL	ORIG	FINAL
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	456	x	1954	x	2215	x	2216	x	2107	x	1906	x	2057	x	510	x	13421	x
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	307	x	407	x	190	x	272	x	300	x	592	x	264	x	0	x	2332	x
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	12	x	19	x	13	x	17	x	18	x	23	x	21	x	3	x	126	x
639-1-121	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER FURNISHED BY POWER COMPANY	AS	0	x	0	x	0	x	1	x	0	x	1	x	0	x	0	x	2	x
639-2-16	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	0	x	0	x	0	x	150	x	0	x	750	x	0	x	0	x	900	x
639-3-12	ELECTRICAL SERVICE DISCONNECT, FURNISH & INSTALL	EA	0	x	0	x	0	x	1	x	0	x	1	x	0	x	0	x	2	x
641-2-11	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II PEDESTAL	EA	0	x	0	x	0	x	1	x	0	x	1	x	0	x	0	x	2	x
715-1-11	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 10 OR SMALLER	LF	0	x	0	x	0	x	0	x	0	x	0	x	0	x	0	x	0	x
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8 TO NO. 6	LF	5529	x	7947	x	7935	x	8328	x	8985	x	8502	x	7827	x	1626	x	56679	x
715-7-11G	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA	0	x	0	x	0	x	1	x	0	x	0	x	0	x	0	x	1	x
700-7-212	DYNAMIC MESSAGE SIGN, FURNISH & INSTALL- WO UPS, MONOCHROME	EA	0	x	0	x	0	x	0	x	0	x	2	x	0	x	0	x	2	x
715-500-1C	POLE CABLE DISTRIBUTION SYSTEM, FURNISH AND INSTALL	EA	11	x	15	x	11	x	11	x	12	x	16	x	14	x	3	x	93	x
715-516-115	LIGHT POLE COMPLETE, SPECIAL DESIGN (FURNISH & INSTALL, POLE TOP MOUNT, ALUMINUM AND 15 FEET MOUNTING HEIGHT)	EA	0	x	0	x	0	x	0	x	0	x	0	x	2	x	0	x	2	x
715-511-140	LIGHT POLE COMPLETE - SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 40'	EA	11	x	15	x	11	x	11	x	12	x	16	x	12	x	3	x	92	x
715-521-140	SPARE LIGHT POLE ASSEMBLY	EA		x		x		x		x		x		x		x		x	18	x

PAY ITEM NOTES:

1. INCIDENTAL ITEMS OR ACCESSORIES REQUIRED TO COMPLETE THE WORK FOR EACH ITEM BID SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THAT SPECIFIC ITEM AS INDICATED IN THE BID FORM; SUCH AS, BUT NOT LIMITED TO: ELBOWS, SPLIT BOLT CONNECTORS, FUSES & FUSE HOLDER, ELECTRICAL TAPE, SCOTCHKOTE, P.V.C. GLUE, TRENCHING, BACKFILLING, PAVEMENT RESTORATION, CONCRETE SLAB REPLACEMENT, ETC.

2. PAY ITEM NO. 630-2-11 AND 630-2-12 FOR CONDUIT SHALL BE BASED ON THE HORIZONTAL PATH OF THE INSTALLED CONDUIT AS MEASURED BETWEEN THE CENTER OF PULL BOXES, CABINETS, ETC.. NO ALLOWANCE SHALL BE MADE FOR SWEEPS OR VERTICAL DISTANCES ABOVE OR BELOW GROUND. INCLUDES CONDUIT, ELBOWS, SWEEPS, CONNECTING HARDWARE, TRENCHING AND BACKFILLING AS PER THE PLANS AND STANDARD INDEXES. ALSO INCLUDES THE COST OR RESTORING CUT PAVEMENT, SIDEWALKS, SOD, AND ETC. TO ITS ORIGINAL CONDITION.

3. PAY ITEM 639-1-121 INCLUDES THE COST OF FURNISHING AND INSTALLING NEW SERVICE. INCLUDES THE COST ESTABLISHING NEW SERVICE WITH LOCAL ELECTRIC UTILITY.

4. PAY ITEM 639-2-16 INCLUDES THE COST OF FURNISHING AND INSTALLING THE SERVICE CONDUCTOR BETWEEN THE SERVICE CONNECTION POINT, UTILITY METER, AND SERVICE DISCONNECT SWITCH.

5. PAY ITEM 639-3-12 INCLUDES THE COST OF FURNISHING AND INSTALLING NEW SERVICE EQUIPMENT. INCLUDES THE COST OF FURNISHING AND INSTALLING A NEMA 4X S.S. SERVICE DISCONNECT, SPD, METER SOCKET, AND MOUNTING HARDWARE.

6. PAY ITEM NO. 715-1-## FOR CONDUCTOR SHALL BE BASED ON THE LINEAR FEET OF EACH CONDUCTOR IN HORIZONTAL MEASUREMENT. NO ALLOWANCE SHALL BE MADE FOR CONNECTION IN PULL BOXES AND CABINETS. ALL CONDUCTOR USE/ RHW-XLP AS SPECIFIED IN FDOT SECTION 992 AND AS PER MIAMI-DADE COUNTY MAINTENANCE AGENCY SPECIFICATIONS. OTHER TYPE OF CABLE SHALL NOT BE ALLOWED (EXCEPT GROUND WIRE WHICH SHALL BE THWN).

7. PAY ITEM 715-7-11G PAYMENT FOR LOAD CENTER SHALL INCLUDE FURNISHING AND INSTALLING ALL ITEMS AS DEPICTED ON MIAMI-DADE COUNTY SERVICE POINT DETAILS. TRANSFORMER CONNECTION AND ALL WORK RELATED TO ELECTRICAL POWER SERVICE SHALL BE COORDINATED WITH THE F.P.&L. REPRESENTATIVE. INCLUDES THE COST OF THE GROUNDING ELECTRODE AND GROUND RODS, INCIDENTAL TO NEW SERVICE

7' PAY ITEM 700-7-212 INCLUDES THE COST OF FURNISHING AND INSTALLING THE MESSAGE BOARD, INCLUDING MOUNTING HARDWARE AND OPTIONAL FEATURES AS DESCRIBED ON PLAN. INCLUDE FEES TO SETUP REMOTE COMMUNICATION INCLUDING ACTIVATION OF CELLULAR RADIO.

8. PAY ITEM 715-500-1C INCLUDES THE SURGE PROTECTOR, FUSE HOLDERS WITH FUSES, WATERPROOF CONNECTORS AND WATERPROOF WIRING CONNECTION TO THE THE LUMINAIRE, GROUNDING ELECTRODE, AND GROUND ROD. (MG SQUARE LIGHT POLE DISTRIBUTION SYSTEM)

9. PAY ITEM NO. 715-516-115 AND 715-511-140 INCLUDES THE COST OF FURNISHING AND INSTALLING 20 FT. OF GROUND ROD AT EACH PULL BOX, EACH LIGHT POLE PULL BOX, AND AT EACH SERVICE POINT PER MIAMI-DADE COUNTY DESIGN REQUIREMENTS, INCLUDING GROUND ROD, GROUND WIRE, ROCKS AND CLAMPS. INCLUDES THE COST OF FURNISHING AND INSTALLING THE POLE, POLE BRACKET ARM, LUMINAIRE WITH UBICQUIA UBICELL SMART NODE MODULE AND SPARE SHORTING CAP, FOUNDATION AND ALL MOUNTING HARDWARE. CONTRACTOR TO INCLUDE IN BID PRICE THE COST FOR TRIMMING TREES AS REQUIRED.

10. PAY ITEM NO. 715-521-140 INDICATES THE COST OF FURNISHING 20% ADDITIONAL SPARE POLE ASSEMBLIES TO TSS.

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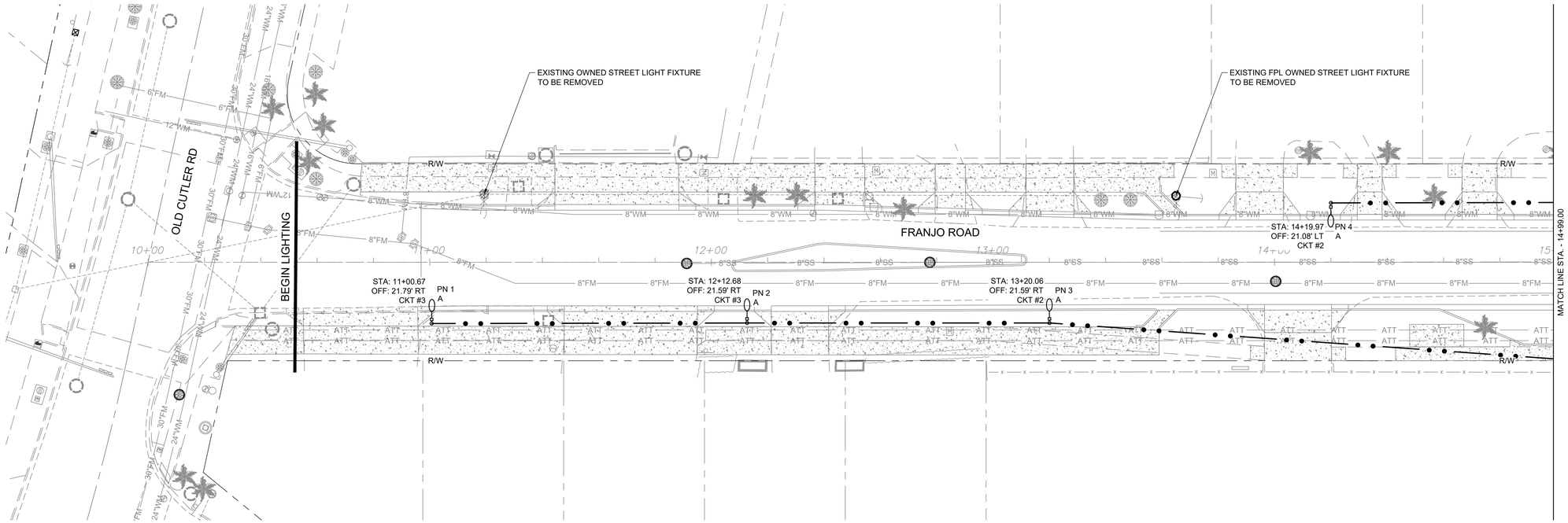
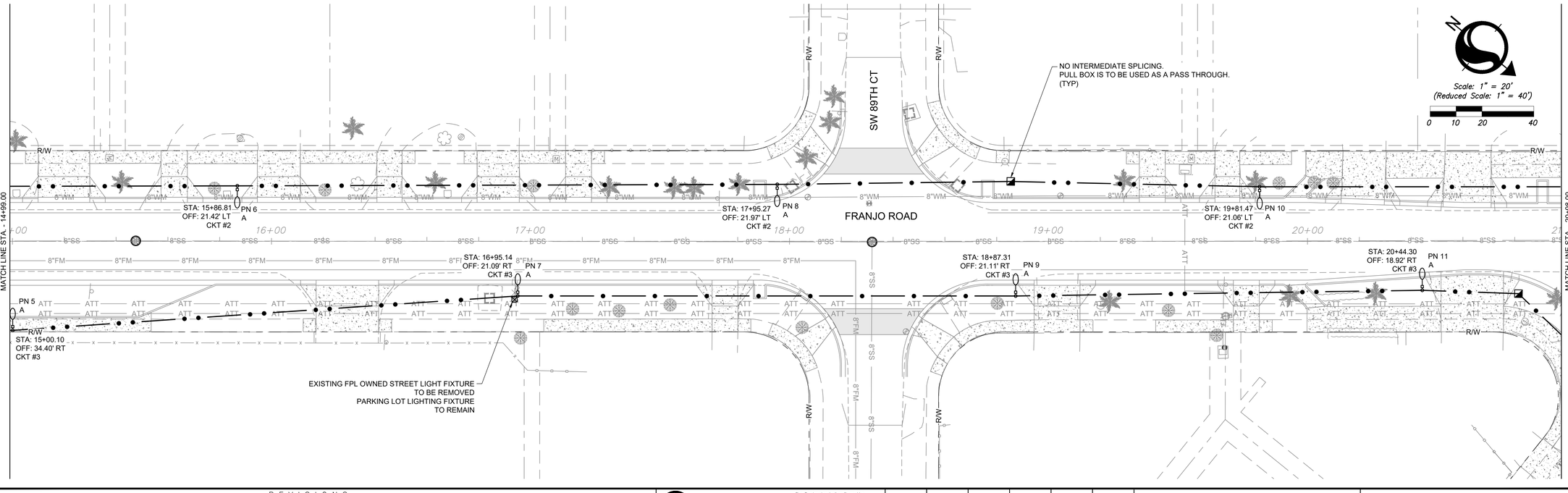
TABULATION OF LIGHTING QUANTITIES

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 215615952 SHEET E-04 OF 19





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(Reduced Scale: 1" = 40')
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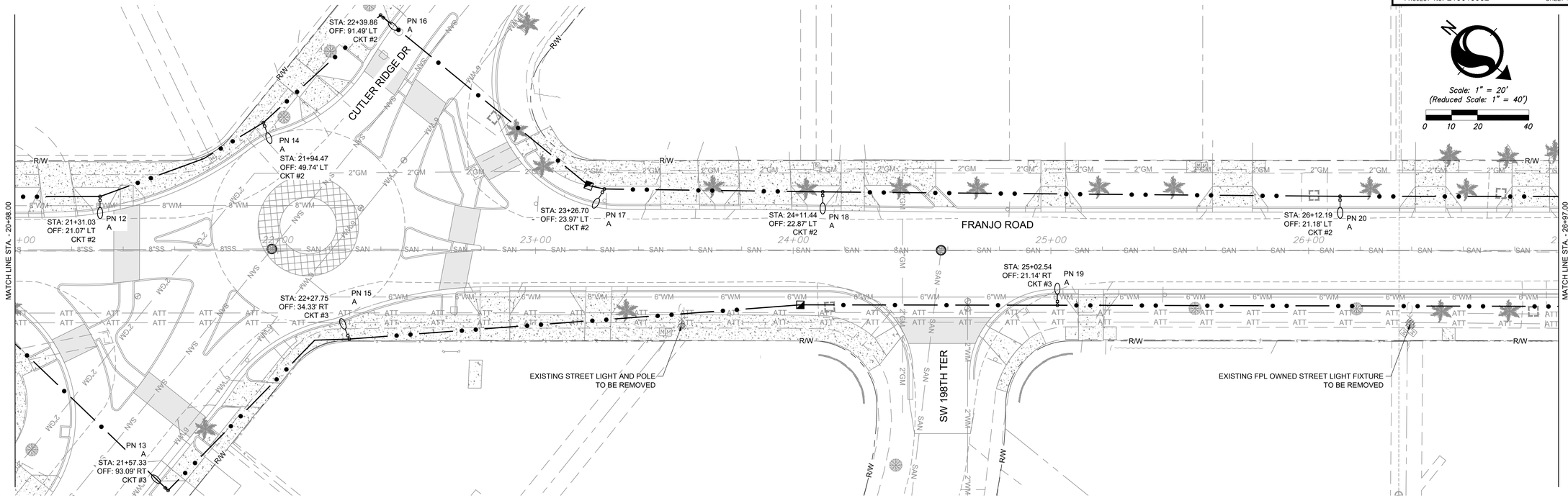
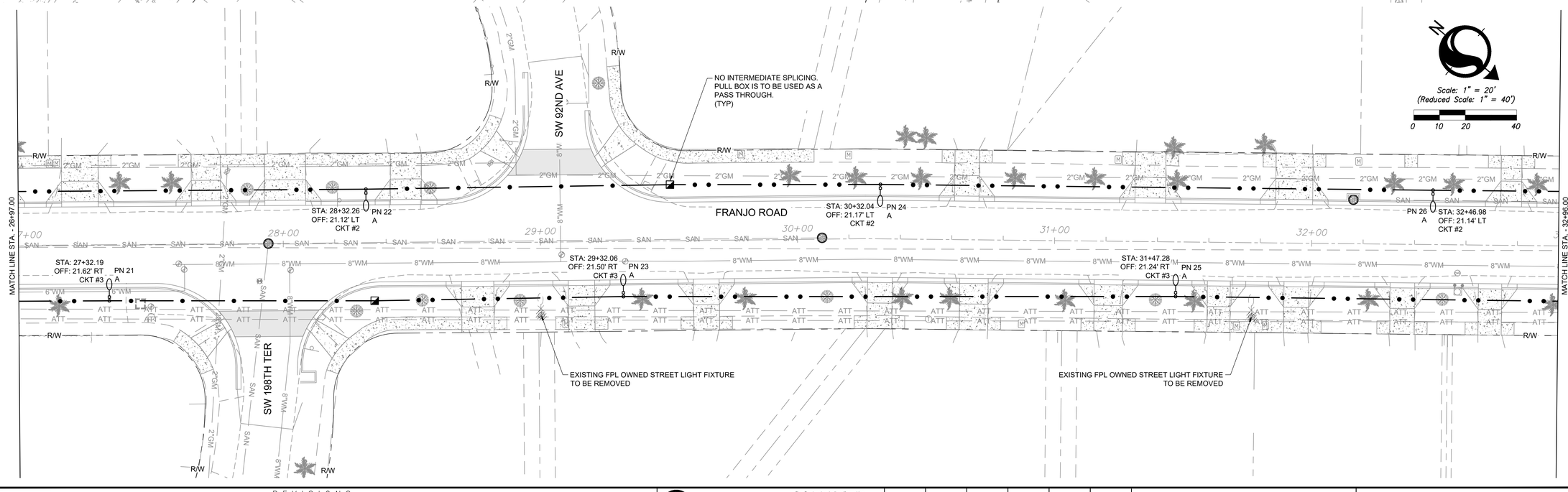
STREET LIGHTING PLAN 1

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 215615952 SHEET E-05 OF 19





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STREET LIGHTING PLAN 2

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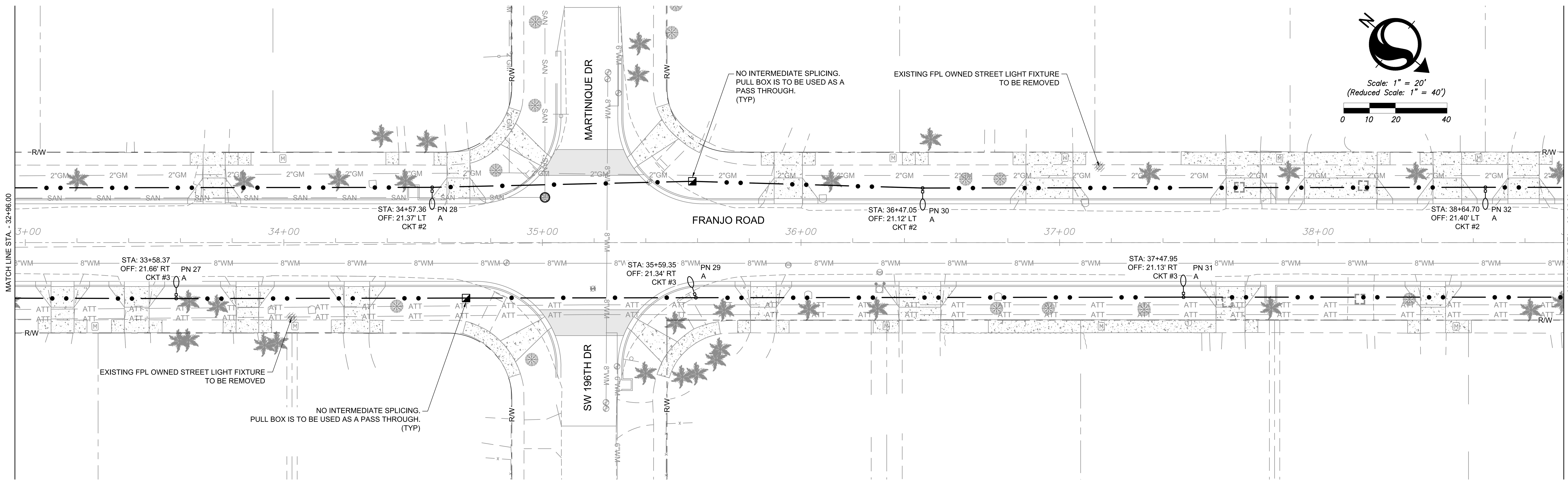

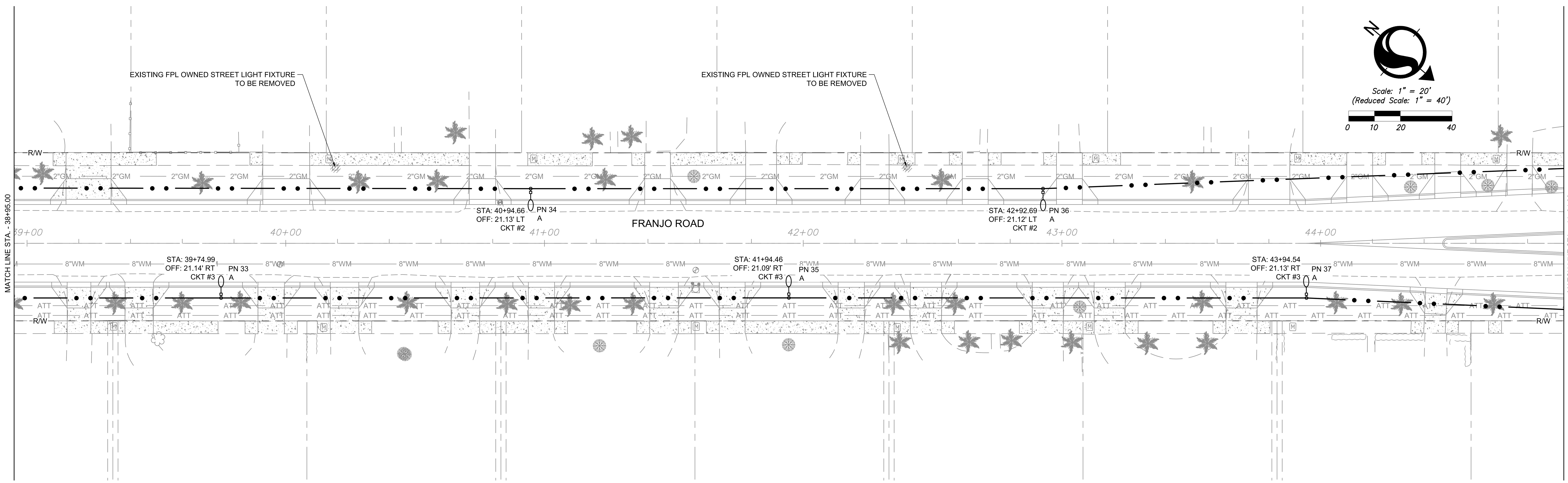

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STREET LIGHTING PLAN 3

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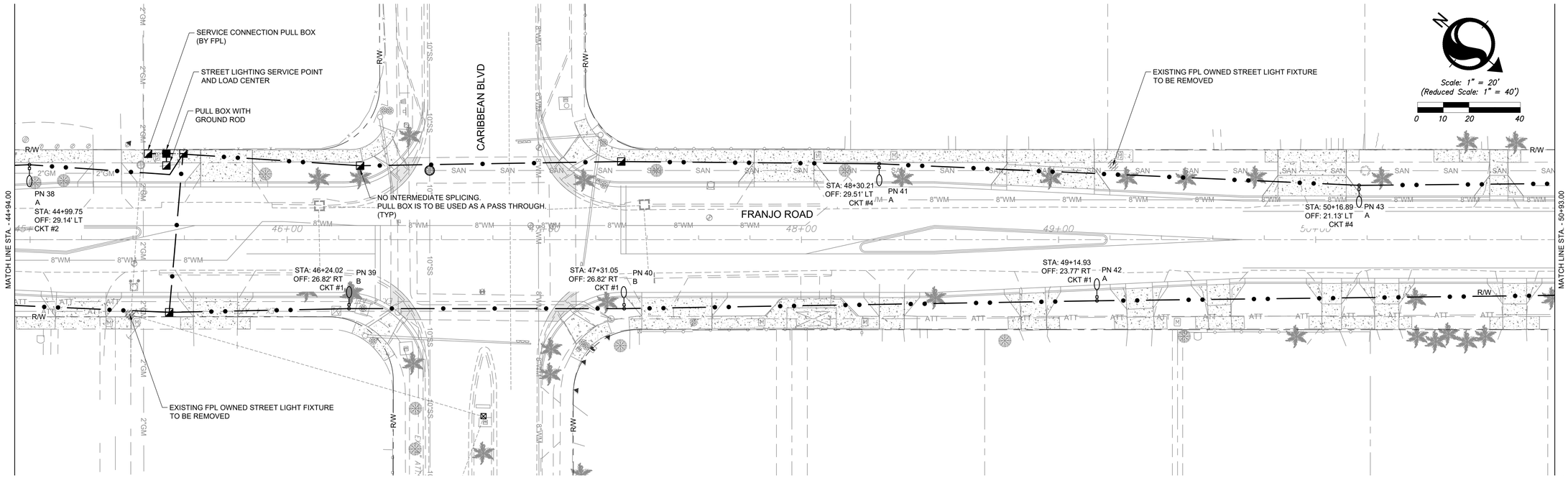
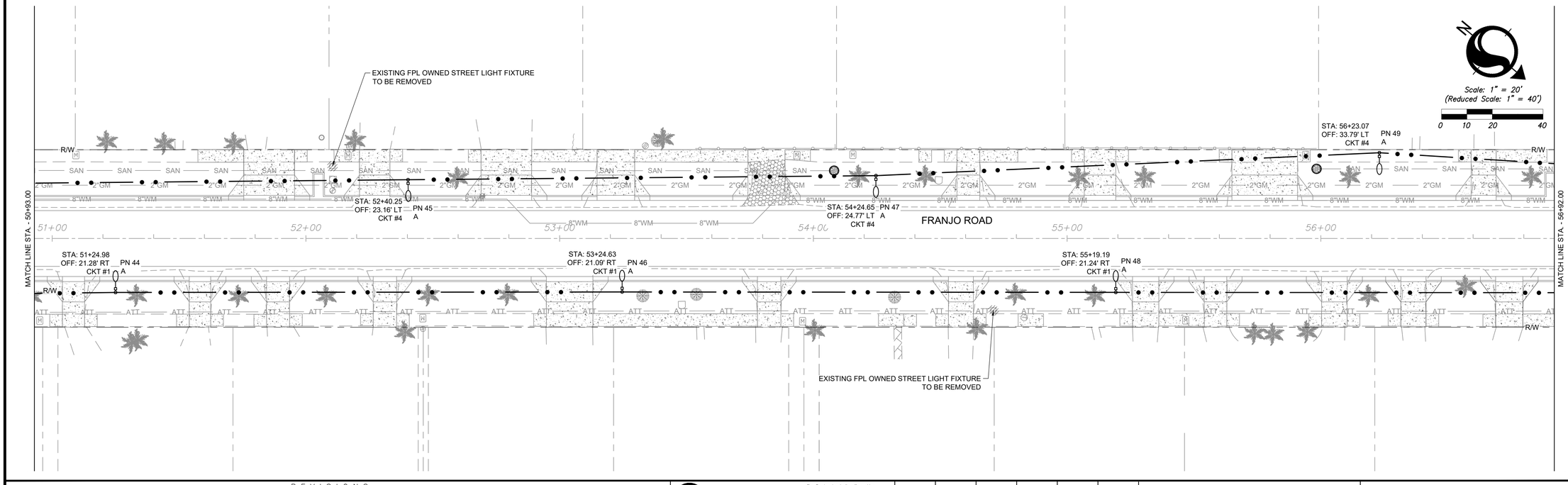
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 215615952 SHEET E-07 OF 19





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MIAMI-DADE COUNTY

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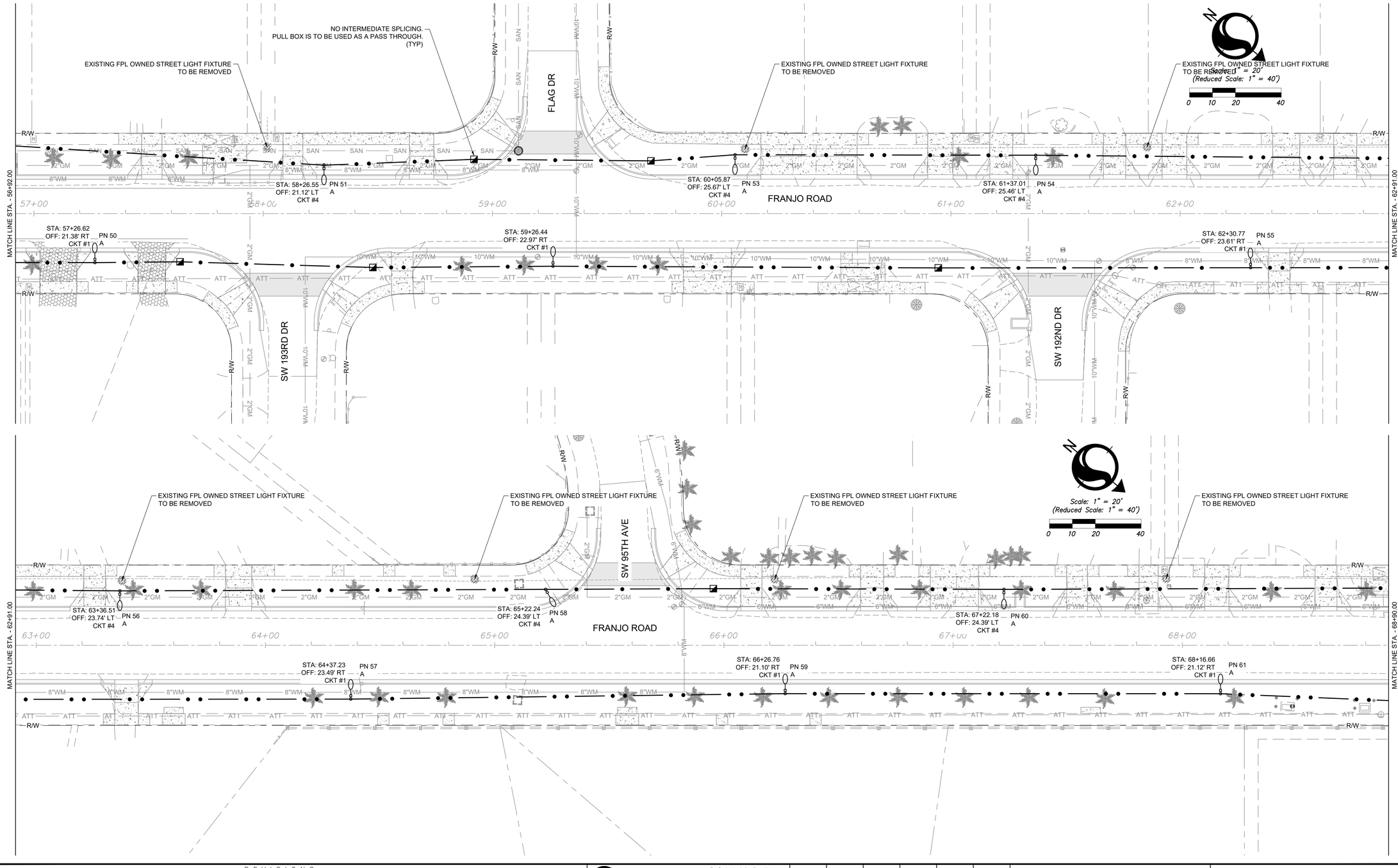
STREET LIGHTING PLAN 4

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 215615952 SHEET E-08 OF 19



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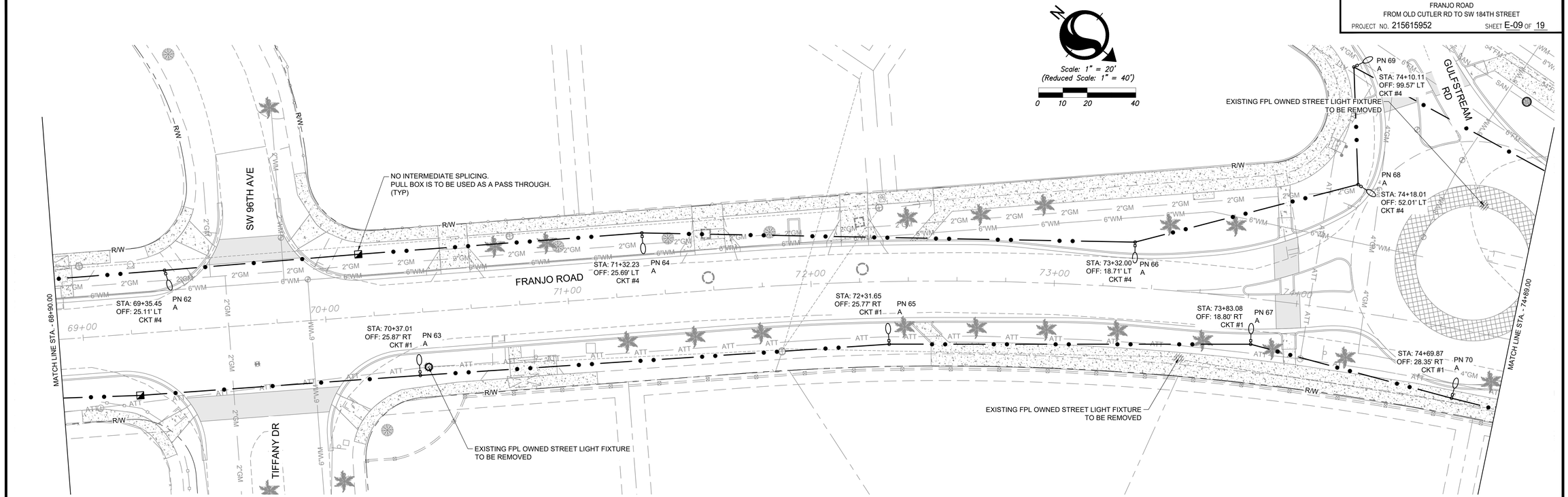
STREET LIGHTING PLAN 5

PLOTTED BY: LINDER, FRANCINE DATE: 12/13/2022 2:43 PM
CREATED: 2022-12-09 - \\S0231-FPFS001\WORKGROUP\21565\ACTIVE\215615952\ELECTRICAL\DRAWING\004-011_STRT-UTIL.DWG

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 215615952 SHEET E-09 OF 19



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STREET LIGHTING PLAN 6

PLOTTED BY: LINSER, FRANCINE DATE: 12/12/2022 2:43 PM
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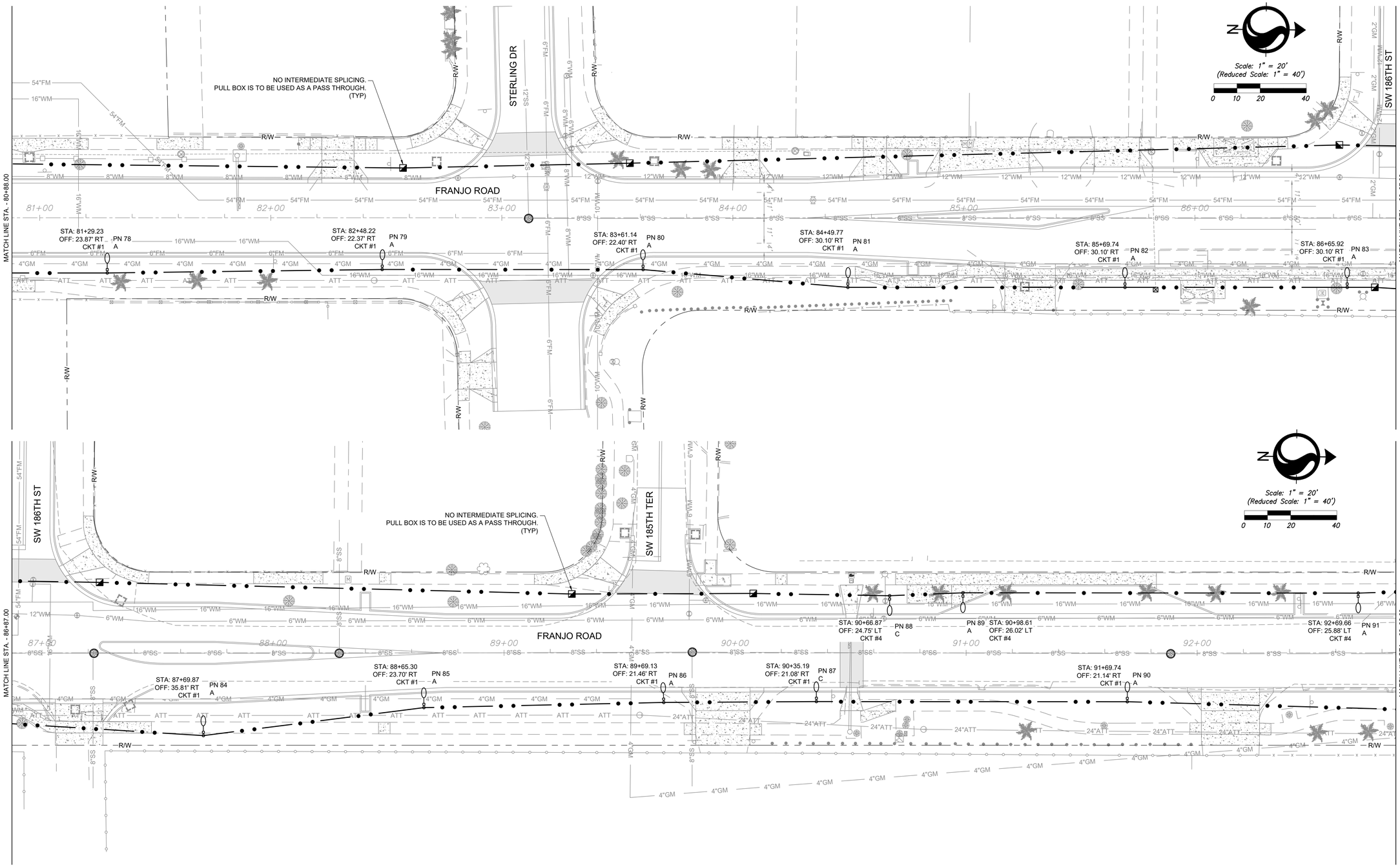
MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 215615952 SHEET E-10 OF 19



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STREET LIGHTING PLAN 7

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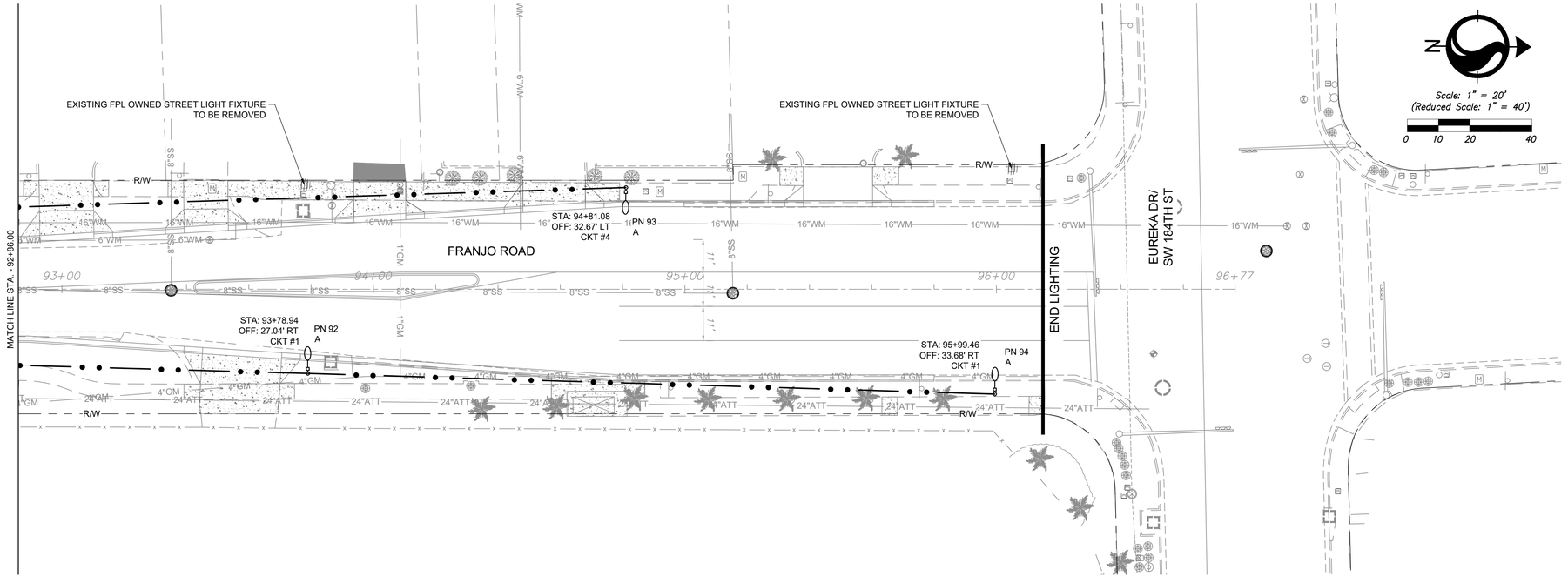
MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER RD TO SW 184TH STREET
PROJECT NO. 215615952 SHEET E-11 OF 19



N

Scale: 1" = 20'
(Reduced Scale: 1" = 40')

0 10 20 40

PLOTTED BY: LINDER, FRANCINE DATE: 12/13/2022 2:44 PM
CREATED: 2022-12-09 - \\SI0231-FPFS001\WORKGROUP\215615952\ACTIVE\215615952\ELECTRICAL\DRAWING\004-011_STRT-LTG.DWG

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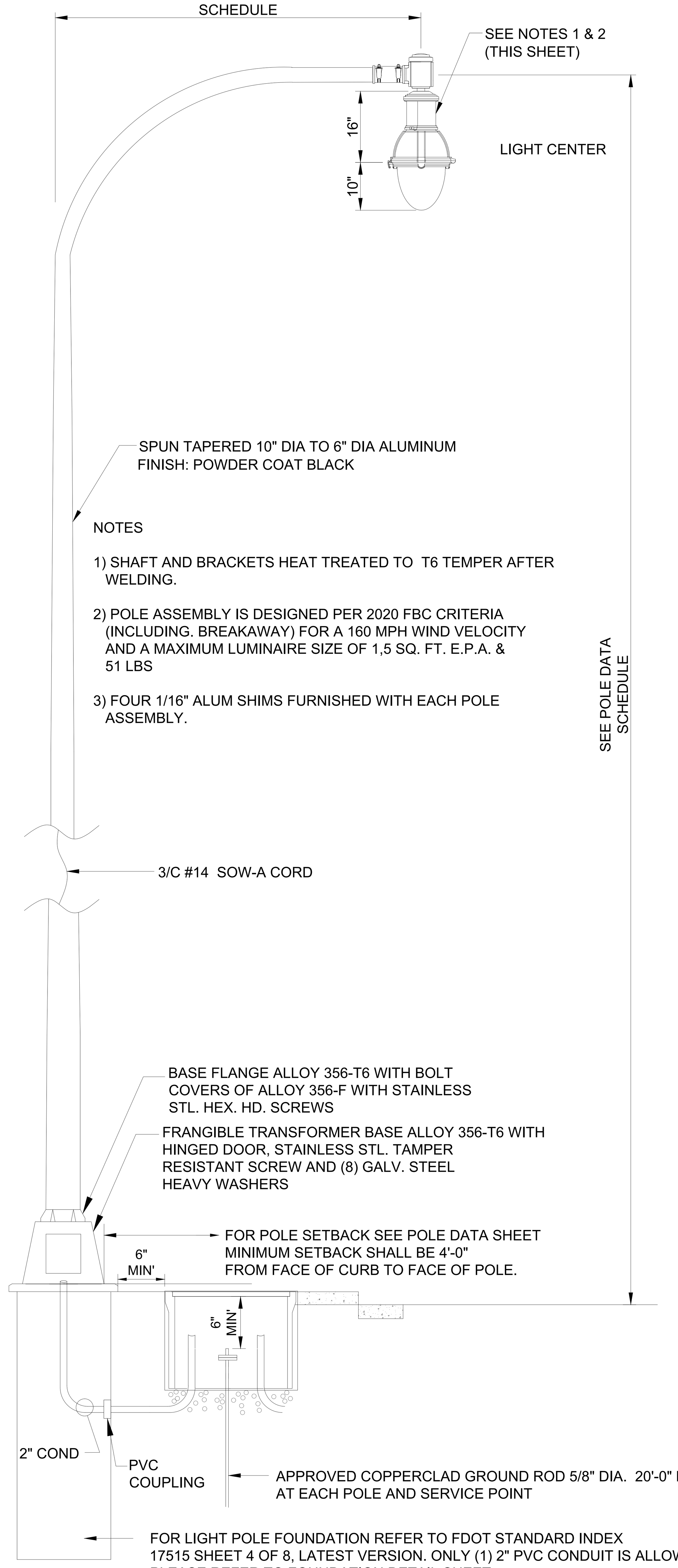
STREET LIGHTING PLAN 8



NOTES

1) SHAFT AND BRACKETS HEAT TREATED TO T6 TEMPER AFTER WELDING.

2) POLE ASSEMBLY IS DESIGNED PER 2020 FBC CRITERIA (INCLUDING. BREAKAWAY) FOR A 160 MPH WIND VELOCITY AND A MAXIMUM LUMINAIRE SIZE OF 1,5 SQ. FT. E.P.A. & 51 LBS

3) FOUR 1/16" ALUM SHIMS FURNISHED WITH EACH POLE ASSEMBLY.

TYPICAL METAL POLE INSTALLATION DETAIL

N.T.S.

SHOP DRAWINGS

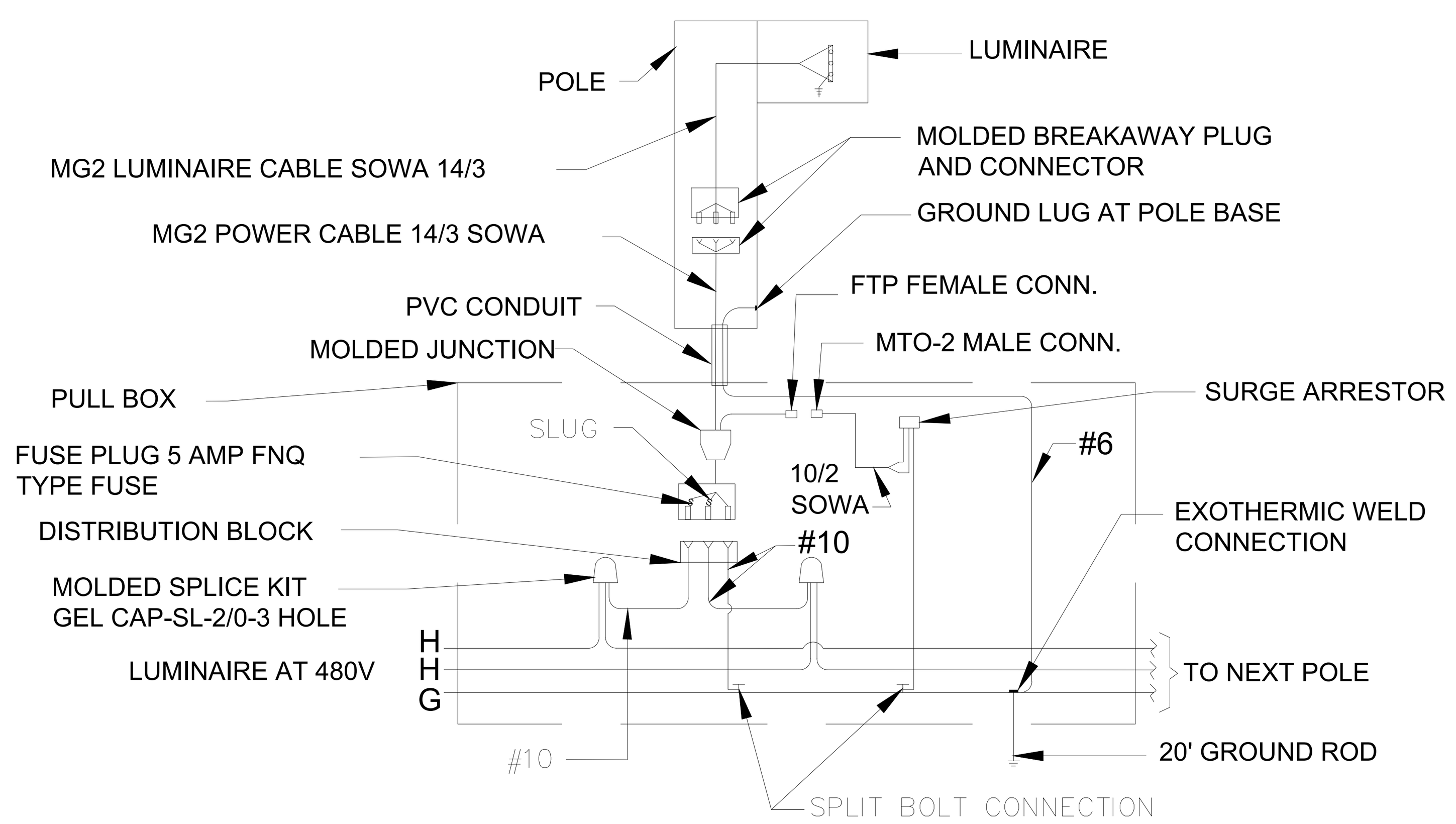
A. DESIGN CRITERIA/PARAMETERS/POLE SHOP DRAWINGS
   1. MUST COMPLY WITH CURRENT AASHTO SPECIFICATIONS IN REGARD TO GROUP LOADING,WIND VELOCITY,HEIGHT & DRAG COEFFICIENT ETC.
   2. LIST: AREA OF WIND EXPOSURE,COMPONENT DEAD WEIGHTS, APPLICABLE COEFFICIENT FOR EACH
   3. IDENTIFY ANY EXCEPTIONS TO AASHTO (LOADING/AND OR ANALYSIS)
   4. PROVIDE MATERIALS SPECIFICATIONS,ALLOWABLE STRESSES, METHODS OF ANALYSIS.

B. POLE SHAFT COMPUTATIONS
   1. CONSIDER WIND AND DEAD LOAD ON ALL COMPONENTS
   2. ANALYSE EFFECTS OF COMBINED STRESS
      A) MOMENT
      B) SHEAR
      C) TORSION
      D) COMPUTE CSR PER AASHTO
   3. CRITICAL AREAS OF STRESS
      A) BASE OF POLE
      B) MANHOLE
      C) POLE CROSS-SECTION

C. ARM STRESS COMPUTATIONS
   1. CONSIDER WIND AND DEAD LOAD ON ALL COMPONENTS.
   2. ANALYZE EFFECTS OF COMBINED STRESS.
      A) MOMENT
      B) SHEAR
      C) COMPUTE CSR PER AASHTO
   3. CRITICAL AREAS OF STRESS
      A) TUBE COMPONENTS AT POLE CONNECTION
      B) ACTUAL CONNECTION/FASTENERS

D. MISCELLANEOUS COMPUTATIONS / ANALYSIS
   1. SECTION PROPERTIES
   2. WELD ANALYSIS (IF APPLICABLE)
   3. LOADING DIAGRAM (POLE AND ARM)
   4. CONNECTION DETAILS
   5. TEST REFERENCES,EQUATIONS

E. THE TEST REPORT SHALL BE CERTIFIED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.



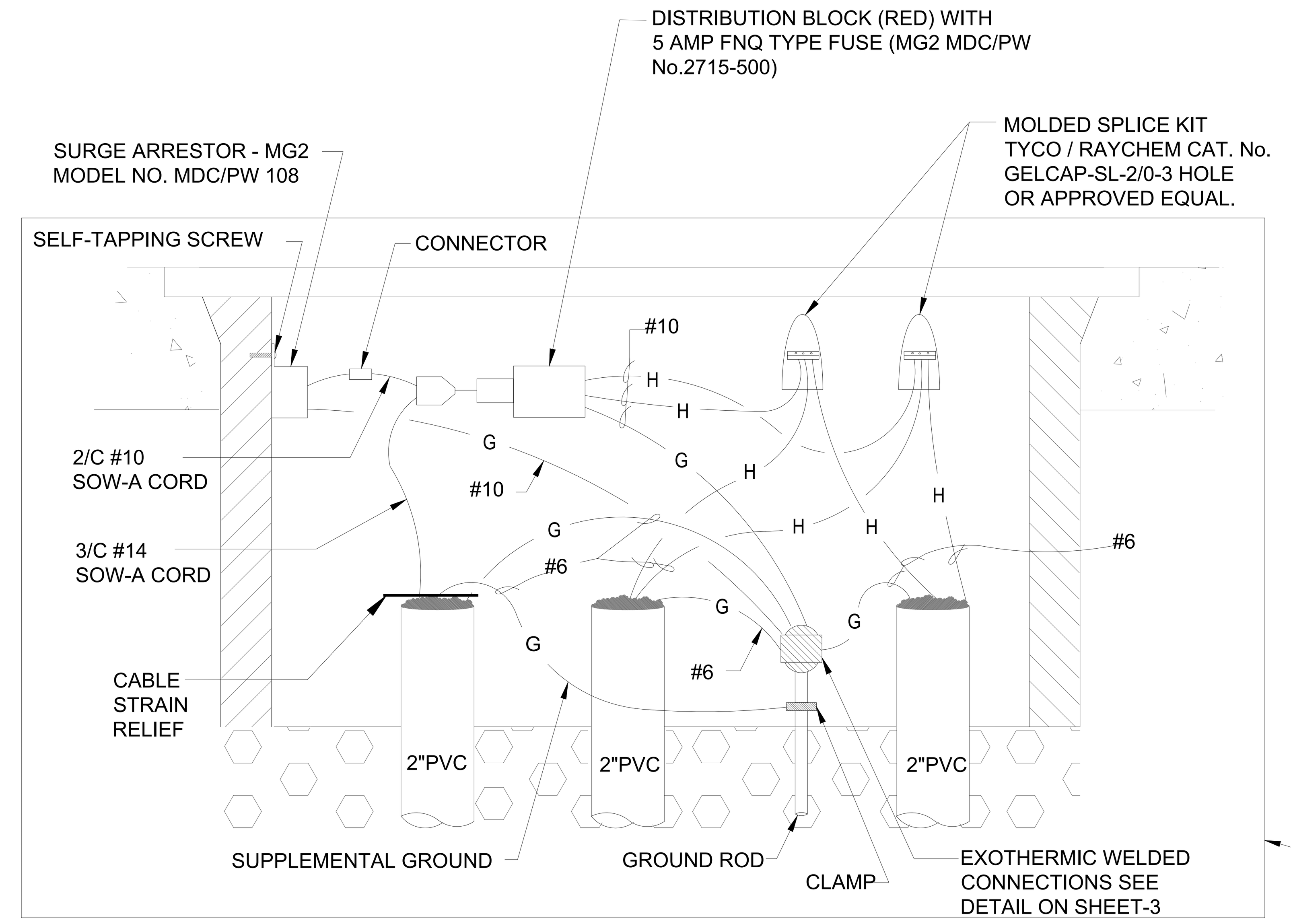
WIRING DIAGRAM (MG SQUARE LIGHT POLE CABLE DISTRIBUTION SYSTEM)

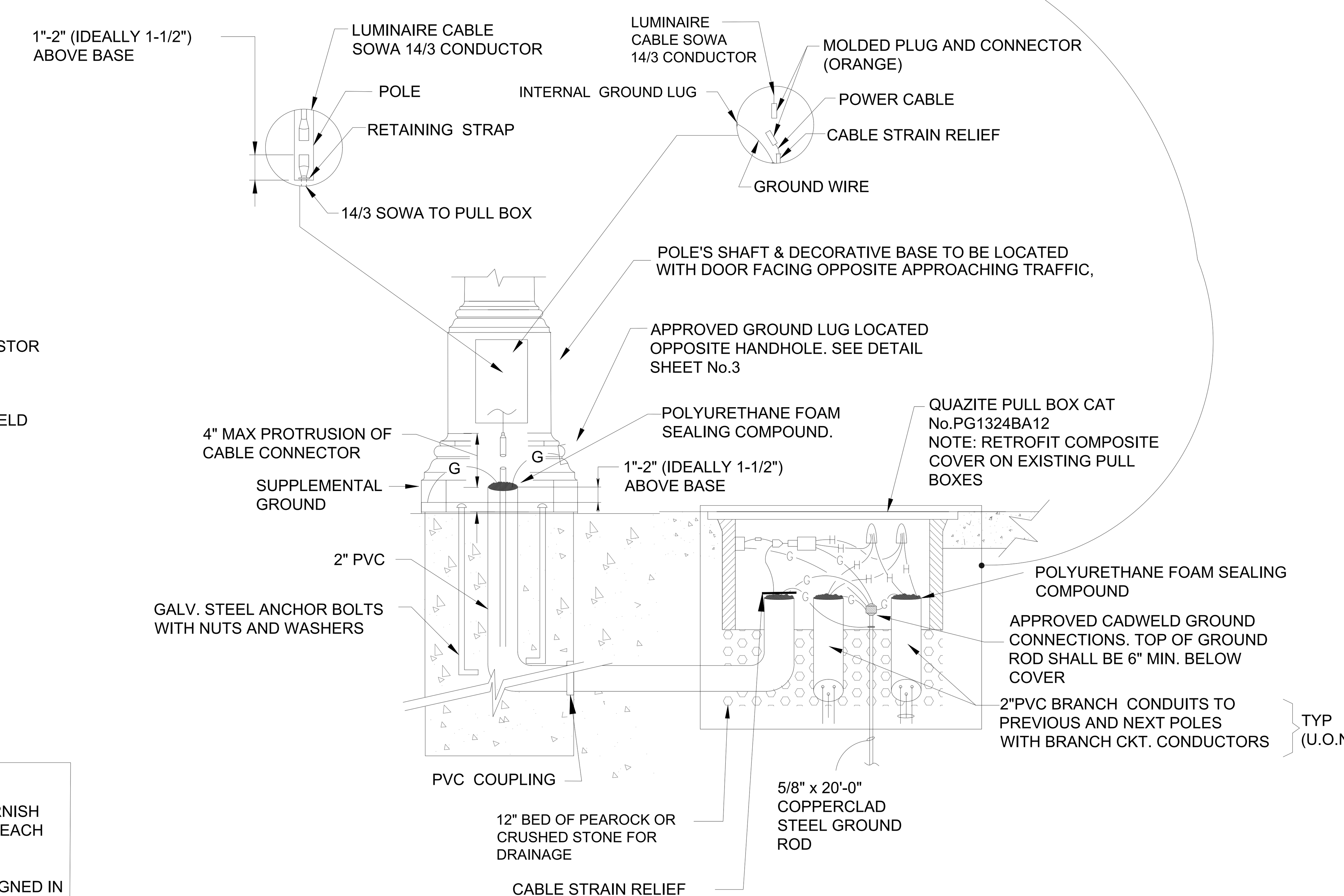
N.T.S.

NOTES:

1) REFER TO THE FIXTURE SCHEDULE ON THE LEGEND SHEET FOR FIXTURE TYPE. FURNISH AND INSTALL A UBICQUIA UBICELL SMART NODE MODULE IN 7-PIN RECEPTACLE FOR EACH FIXTURE.

2) POLES, BRACKETS ARMS AND TRANSFORMER BASES SHALL BE ALUMINUM AND DESIGNED IN ACCORDANCE WITH LOCAL DESIGN CRITERIA USING THE APPLICABLE EQUATIONS FOUND IN "STANDARD SPECIFICATIONS FOR HIGHWAY SIGNS, LUMINAIRE AND TRAFFIC SIGNALS" PUBLISHED BY CURRENT A.A.S.H.T.O. THE CONTRACTOR (SUPPLIER) SHALL SUBMIT EVIDENCE OF DEMONSTRATED COMPLIANCE WITH THE REQUIREMENTS OF THIS SPECIFICATION ALONG WITH HIS EQUIPMENT SUBMITTAL DATA. NO POLES ARE TO BE INSTALLED PRIOR TO DEPARTMENT APPROVAL.





POLE WIRING DETAIL WITH PULL BOX

N.T.S.

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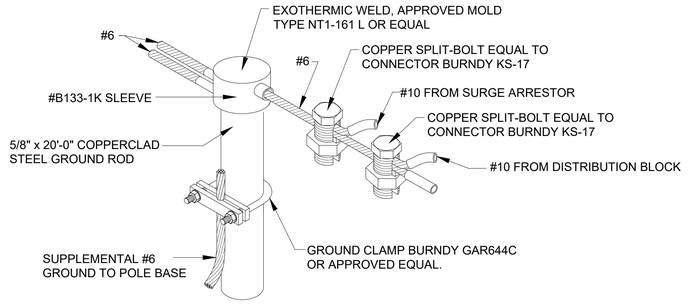
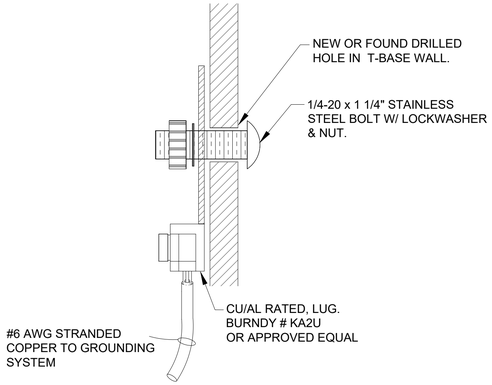
DECORATIVE POLE DETAIL



CABLE TO GROUND ROD DETAIL
(COPPER WIRE FOR GROUNDING)

N.T.S.

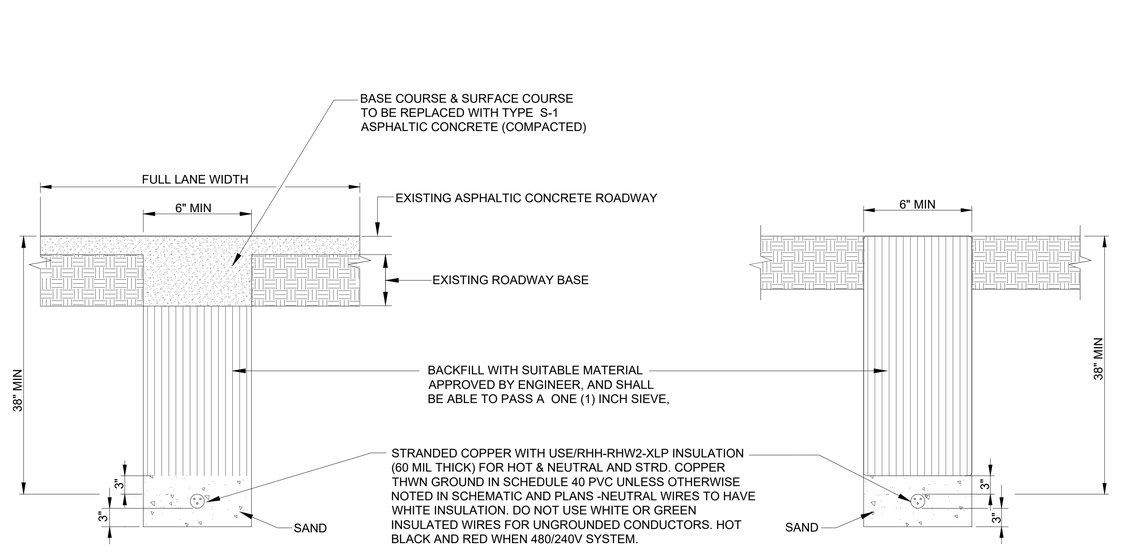


GROUND LUG DETAIL
(COPPER WIRE FOR GROUNDING)

N.T.S.

PULL BOX SPECIFICATION

1. ALL STREET LIGHT PULL BOXES SHALL HAVE AN OPEN-BOTTOM, QUAZITE POLYMER CONCRETE DESIGN OR PRECAST CONCRETE DESIGN CONSTRUCTED OF CLASS I CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT TWENTY- EIGHT (28) DAYS. POLYMER CONCRETE PULL BOX SHALL BE QUAZITE PRODUCT NO. PG1324BA12 OR APPROVED EQUIVALENT. CONCRETE PULL BOX SHALL BE BROOKS 38 SERIES OR APPROVED EQUIVALENT. IN EITHER CASE, BOTH PULL BOXES SHALL BE CONSTRUCTED PER ABOVE SPECIFIED MANUFACTURERS SIZE, MATERIALS AND PERFORMANCE SPECIFICATIONS. THEREFORE, BELOW SPECIFIED PULL BOX COVER SHALL BE FULLY INTER- CHANGEABLE WITH EITHER PULL BOX. ALL PULL BOX COVERS FURNISHED AND INSTALLED SHALL BE POLYMER CONCRETE QUAZITE PRODUCT NO. PG1324HA00 OR APPROVED EQUIVALENT. NO OTHER DESIGN, SIZE, MODIFICATION OR MATERIALS SHALL BE ACCEPTABLE. PULL BOX COVERS SHALL BE MARKED "STREET LIGHTING" OR "ELECTRIC/ MIAMI-DADE HD".
2. IN SITUATIONS WHERE PULL BOX IS LOCATED OUTSIDE OF SIDEWALK, i.e. SWALE AREA. THE PULL BOX IS TO HAVE A 6'x5' MIN CONCRETE APRON (6" THICK) PLACED AROUND IT. COST OF CONCRETE APRON IS TO BE INCLUDED IN THE PULL BOX INSTALLATION COST.



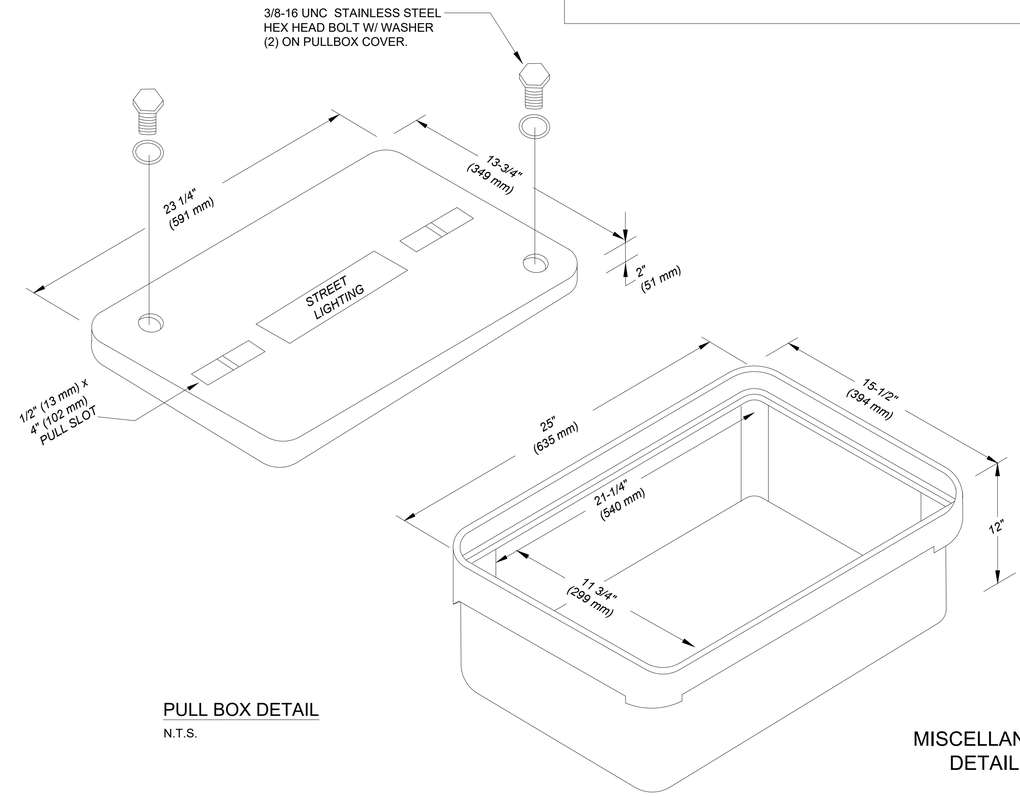
TRENCH DETAIL (ROAD)

N.T.S.

TRENCH DETAIL (SWALE)

N.T.S.

* IF IN THE OPINION OF THE ENGINEER, APPRECIABLE SETTLEMENT OCCURS DURING THE ONE YEAR GUARANTEE PERIOD, THE CONTRACTOR WILL BE REQUIRED TO RESTORE THE AREA OF CUT TO ADJACENT ROADWAY ELEVATION. SEE "TRAFFIC CONTROL EQUIPMENT SPECIFICATIONS AND STANDARDS FOR THE MTCSMDC".



PULL BOX DETAIL

N.T.S.

MISCELLANEOUS
DETAILS 1

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MISCELLANEOUS DETAILS

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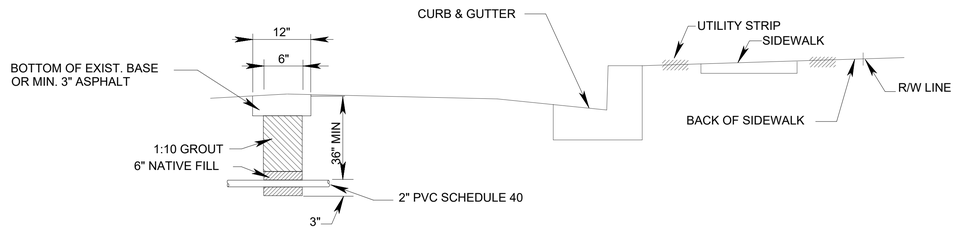
1 OPTION

CONDUIT BURIED WHEN CROSSING ROAD

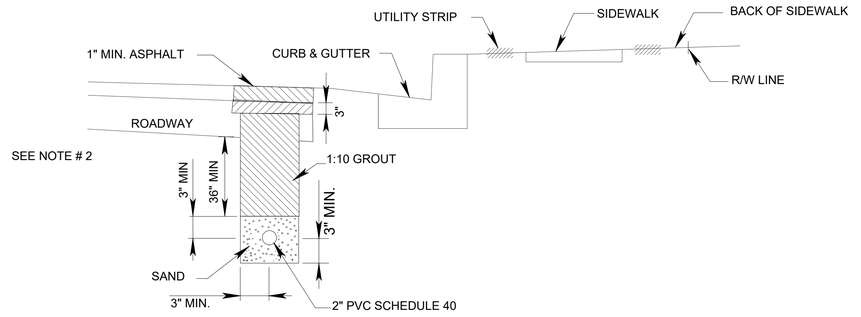


NOTE:
TRENCH NOT TO BE OPENED MORE THAN 250' AT A TIME

* MAY BE ADJUSTED IN FIELD DUE TO FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

2 OPTION

CONDUIT BURIAL IN ROADWAY



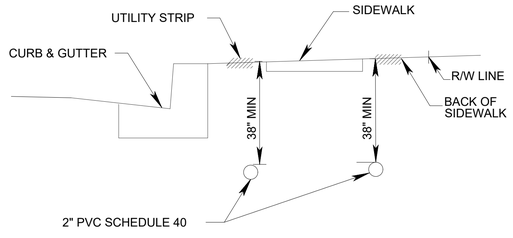
NOTE:

1. TRENCH NOT TO BE OPENED MORE THAN 250' AT A TIME.
2. THIS AREA SHALL BE BACKFILLED WITH TYPE S-1 ASPHALTIC CONCRETE TO WITHIN 1 INCH OF FINISHED GRADE.

* MAY BE ADJUSTED IN FIELD DUE TO FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

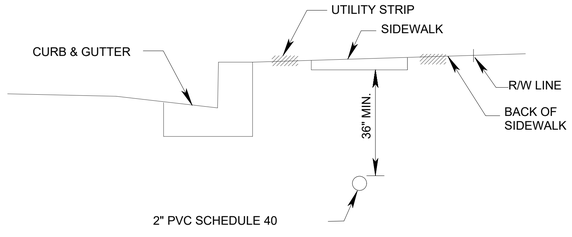
3 OPTION

CONDUIT IN UTILITY AND BACK OF SIDEWALK



4 OPTION

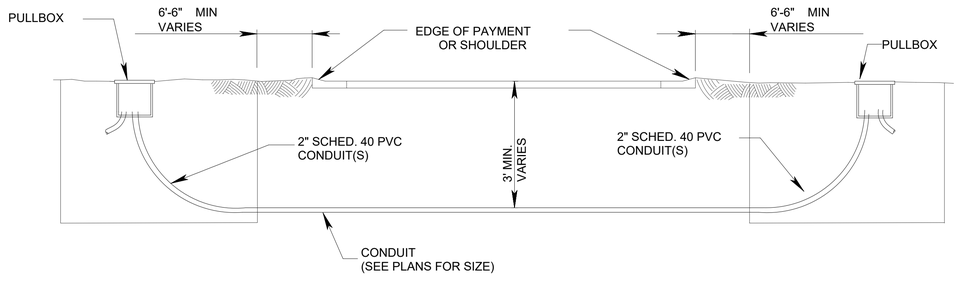
CONDUIT UNDER SIDEWALK



NOTE:
IN PLACING CONDUIT UNDER SIDEWALK REPLACEMENT OF ENTIRE SIDEWALK SECTION SHALL BE NECESSARY.

5 OPTION

CONDUIT DIRECTIONAL BORE



NOTES:

1. DIRECTIONAL BORING OPERATIONS SHALL BE DONE IN ACCORDANCE WITH THE F.D.O.T. UTILITY ACCOMODATION MANUAL.

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CONDUIT BURIAL DETAILS

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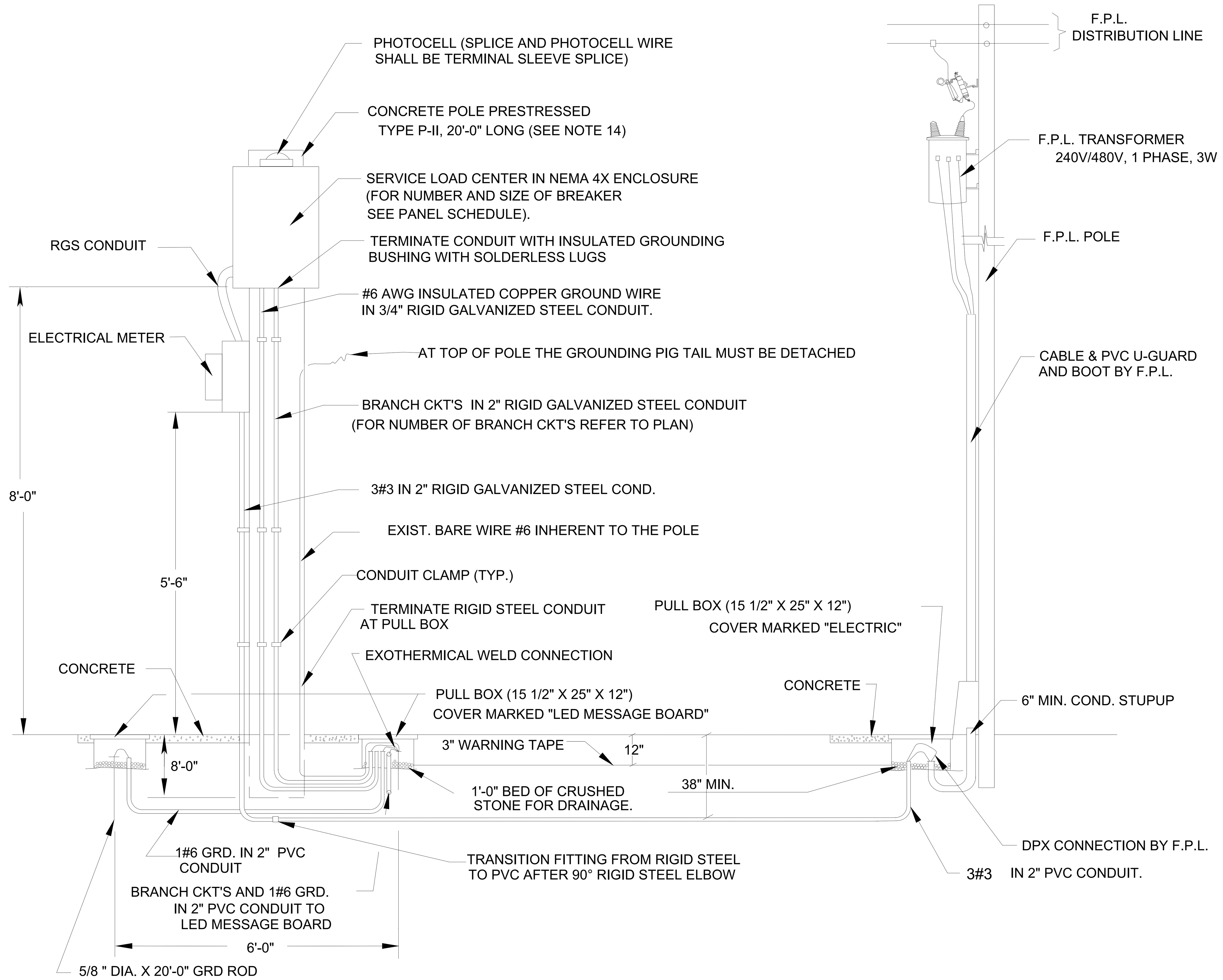
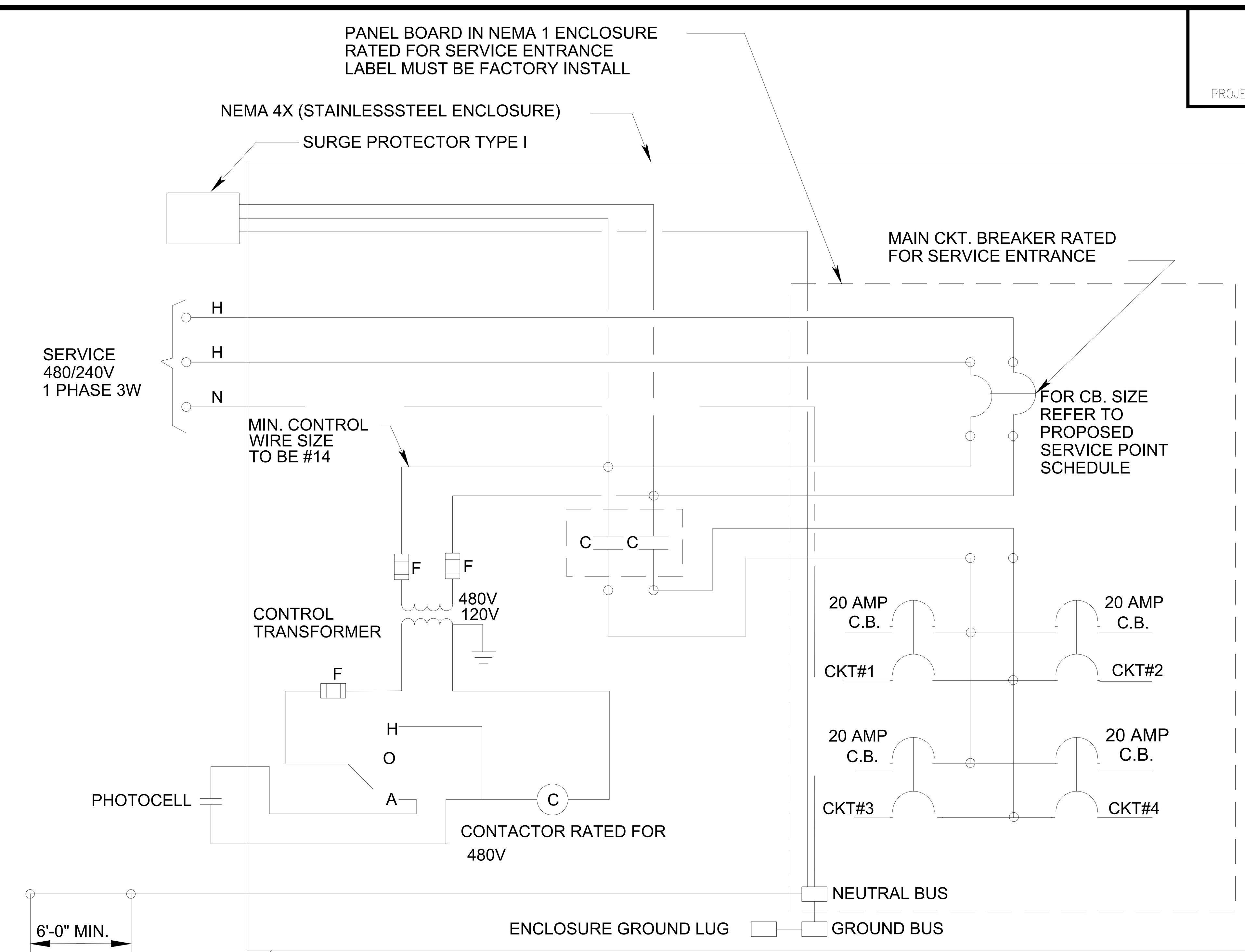


SERVICE POINT DETAIL
N.T.S

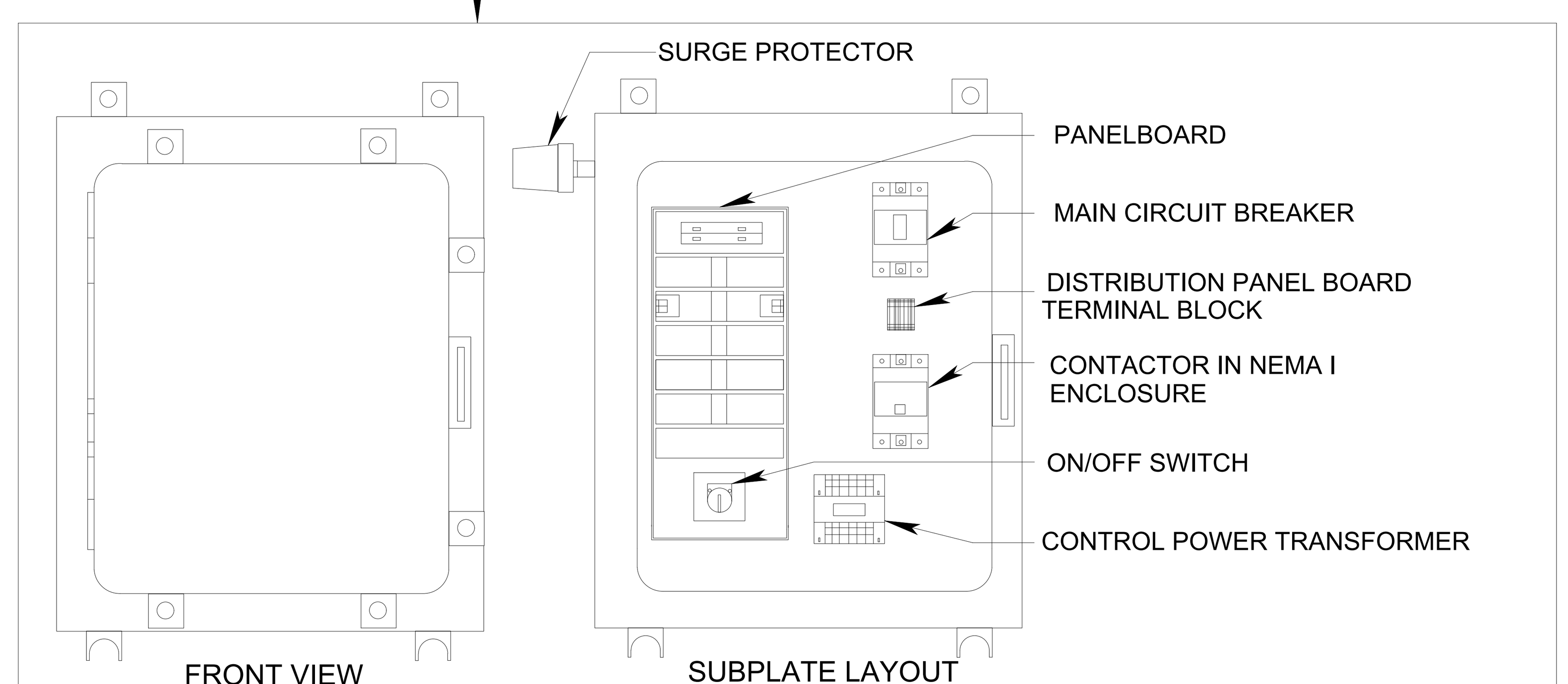


NOTES (CONT.)

12. CONDUCTORS BETWEEN THE LOAD CENTER AND FIRST POLE HAVE NO SPLICES. SPLICES ARE NOT PERMITTED AT THE LOAD CENTER PULL BOX.
13. ALL GROUND ROD SHALL BE INTERCONNECTED (USING #6 GROUND WIRE).
14. PROVIDE SUPPLEMENTARY GROUND ELECTRODE SPACED AT LEAST 6FT APART (AS PER N.E.C. REQUIREMENT).
15. ALL CONDUCTOR SHALL BE TYPE RHH-RHW-2-XLP. (OTHER TYPE OF CONDUCTOR IS NOT ALLOWED. EXCEPT GROUND WIRE WHICH SHALL BE TYPE THWN.)
16. CONTRACTOR SHALL SUBMIT STRUCTURAL CALCULATIONS OF THE POLE, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER.
17. AFTER OPENING THE PANEL, THE PANEL BOARD SHALL HAVE A DEAD FRONT COVER FOR THE PURPOSE OF COVERING ALL THE WIRING AND EXPOSING ONLY THE BUTTONS OF THE BREAKERS; IN COMPLIANCE WITH THE N.E.C.
18. ALL WIRES EXTERNAL TO CONTROL CABINET TO BE TERMINATED TO A TERMINAL.
19. WIRES END WITHIN CABINET TO BE IDENTIFIED WITH WIRE MARKERS.
20. DESIGNATES TERMINAL FOR CUSTOMER CONNECTIONS.

NOTES:

1. THE ENCLOSURE SHALL BE NEMA 4X (STAINLESS STEEL), POLE MOUNTED, RIGIDLY ATTACHED TO THE POLE FACE.
2. THE ENCLOSURE DOOR SHALL BE SECURED BY LOCKABLE LATCH. THE DOOR SHALL HAVE A MINIMUM OF THREE HINGES AND BE LATCHABLE. NO SCREWS TO BE USED TO ATTACH DOOR.
3. 250V MINIMUM RATING BOLT TYPE BREAKERS SHALL BE USED.
4. A 600V SURGE PROTECTOR TYPE I SHALL BE WIRED OUTSIDE THE ENCLOSURE. NO SPLICING IN ENCLOSURE.
5. A MAIN BREAKER IS REQUIRED IN ALL SERVICE PANELS WITH 2 OR MORE FEEDER BREAKERS.
6. ALL SERVICE EQUIPMENT SHALL BE U.L. APPROVED.
7. BUS BAR TO BE COPPER COATED AND HAVE A MINIMUM RATING OF 60 AMP. WHEN MAIN BREAKER EXCEEDS 60 AMPS BUS BAR TO MATCH MAIN BREAKER AMPERAGE
8. LOCATE CONTACTOR, TRANSFORMER, AND H.O.A. SWITCH INSIDE ENCLOSURE. THE ENCLOSURE TO BE SIZED TO ACCOMMODATE AS MANY BREAKERS AS CALLED FOR AND ALL OTHER SERVICE EQUIPMENT.
9. THE ENCLOSURE TO BE RIGIDLY ATTACHED TO THE POLE FACE.
10. CONTRACTOR SHALL COORDINATE WITH F.P.L. ENGINEERS FOR THE INSTALLATION OF THE F.P.L. RISER WHICH INCLUDES A CONNECTION FEE. (THIS FEE SHALL BE INCLUDED IN BID ITEM 715-7-11)
11. THE CONTRACTOR SHALL FURNISH ARC FLASH PROTECTION LABEL ON THE SERVICE DISCONNECTING MEANS. THE LABEL SHALL BE BASED OFF THE AVAILABLE FAULT CURRENT PROVIDED BY THE ELECTRIC UTILITY AND FURNISHED EQUIPMENT. THE LABEL SHALL INCLUDE INCIDENT ENERGY, ARC FLASH PROTECTION BOUNDARIES AND PERSONAL PROTECTIVE EQUIPMENT (PPE).



LIGHTING CONTROL CENTER

PANEL BOARD SCHEDULE

NEMA-1 1O,3W,240/480V, (2P - 60 A MCB)
35,000 RMS SYMETRICAL SURF-MTD

CKT NO	SERVING	KVA	AMPS	C. BKR	WIRE/CONDUCT
1	SEE VDROP SCHEDULE	1.9	4.0	20A	SEE VDROP SCHEDULE
2	SEE VDROP SCHEDULE	2.8	5.8	20A	SEE VDROP SCHEDULE
3	SEE VDROP SCHEDULE	1.6	3.5	20A	SEE VDROP SCHEDULE
4	SEE VDROP SCHEDULE	1.8	3.7	20A	SEE VDROP SCHEDULE

DISCONNECT SWITCH LOAD CALCULATION:

CONTINUOUS LOADS= 8,166VA 25%
CONT. LOAD = 2,042VA TOTAL
= 10,208VA

$AMP = \frac{10{,}028VA}{480V} = 21A$

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
		REVISIONS						

Stantec
901 Ponce de Leon Blvd, Suite 900
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DESIGNED BY	BB	3/26/2021	DRAWN BY		
CHECKED BY	JN		CHECKED BY		
SUPERVISED BY:					

MIAMI-DADE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

SERVICE POINT DETAIL FOR STREET LIGHTING

NOTES:

1. METER INSTALLATION CONNECTION AND ALL WORK RELATED TO ELECTRICAL POWER SERVICE SHALL BE COORDINATED WITH FPL UTILITY REPRESENTATIVE. COORDINATE EXACT LOCATION, EQUIPMENT DIMENSIONS, AND SERVICE INSTALLATION.
2. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ELECTRICAL INSTALLATIONS WITH ALL OTHER TRADES TO AVOID ANY CONFLICTS.
3. ALL NEW WIRING SHALL BE INSTALLED IN CONDUIT WITHOUT EXCEPTION. MINIMUM SIZE CONDUIT SHALL BE 3/4".
4. ALL NEW CONDUCTORS SHALL BE TYPE THHN/THWN-2 90C COPPER FOR #10 AND SMALLER AND XHHW-2 FOR #8 AND LARGER.
5. THE USE OF NO. 14 AWG COPPER CONDUCTORS SHALL BE RESTRICTED TO CONTROL AND INSTRUMENT WIRING.
6. ALL ELECTRICAL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE N.E.C.
7. ALL CUTTING AND PATCHING REQUIRED FOR THE INSTALLATION OF NEW RACEWAYS OR EQUIPMENT SHALL BE PERFORMED BY A TRADESMAN EXPERIENCED IN THE WORK REQUIRED. ALL FINISHES SHALL MATCH EXISTING ADJACENT SURFACES.
8. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY LOSS OR DAMAGE CAUSED BY HIM OR HIS WORKMAN TO THE LOCATION DURING THE COURSE OF CONSTRUCTION. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING SUCH LOSS OR DAMAGE AT NO ADDITIONAL COST TO THE OWNER.
9. THE ELECTRICAL WORK SHALL COMPLY WITH ALL APPLICABLE CITY, COUNTY, STATE AND SERVING ELECTRICAL UTILITY CODES, ORDINANCES, RULES AND REGULATIONS. THE ENTIRE ELECTRICAL INSTALLATION SHALL COMPLY WITH OR SURPASS THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
10. THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL MATERIALS, TOOLS, LABOR, PLAN CHECK FEES, ETC., FOR A COMPLETE ELECTRICAL INSTALLATION UNLESS OTHERWISE NOTED ON PLANS.
11. ALL MATERIALS FURNISHED BY THE ELECTRICAL CONTRACTOR SHALL BE NEW AND OF FIRST CLASS QUALITY, SHALL BE U.L. LISTED AND FREE OF ANY DEFECTS UNLESS OTHERWISE NOTED ON PLANS.
12. ALL EQUIPMENT SHALL BE RATED FOR USE INTENDED - VOLTAGE, H.P., ETC. ALL DISCONNECT SWITCHES FURNISHED SHALL BE LOAD BREAK RATED.
13. ALL NECESSARY PERMITS REQUIRED FOR ELECTRICAL INSTALLATIONS ARE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND SHALL BE CONSIDERED TO BE PART OF HIS CONTRACT FEE.
14. THE ELECTRICAL CONTRACTOR SHALL FULLY GUARANTEE THE INSTALLATION FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER AGAINST IMPERFECT WORKMANSHIP AND MALFUNCTION OF EQUIPMENT. ANY WORK FOUND TO BE DEFECTIVE WITHIN THIS PERIOD SHALL BE REPAIRED OR REPLACED PROMPTLY AT NO ADDITIONAL COST TO THE OWNER.
15. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND CANNOT SHOW EVERY CONNECTION, JUNCTION BOX, WIRE, CONDUIT, ETC. THE EXACT LOCATION AND ARRANGEMENT OF ALL PARTS SHALL BE DETERMINED AS THE WORK PROGRESSES. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEM.
16. ALL SERVICE EQUIPMENT SHALL BE U.L. LISTED..
17. ELECTRICAL CONTRACTOR TO VERIFY AND PROVIDE EQUIPMENT GROUNDING CONDUCTOR AS PER NEC 250. ALL EXPOSED METAL PARTS ARE TO BE BONDED TO THE GROUND SYSTEM.

KEYED NOTES

(1) THE ENCLOSURE SHALL BE NEMA 4X POLE MOUNTED, RIGIDLY ATTACHED TO THE POLE FACE. THE ENCLOSURE DOOR SHALL BE LOCKABLE BY PADLOCK AND FOUR KEYS PROVIDED. NO SCREWS TO BE USED TO ATTACH DOOR.

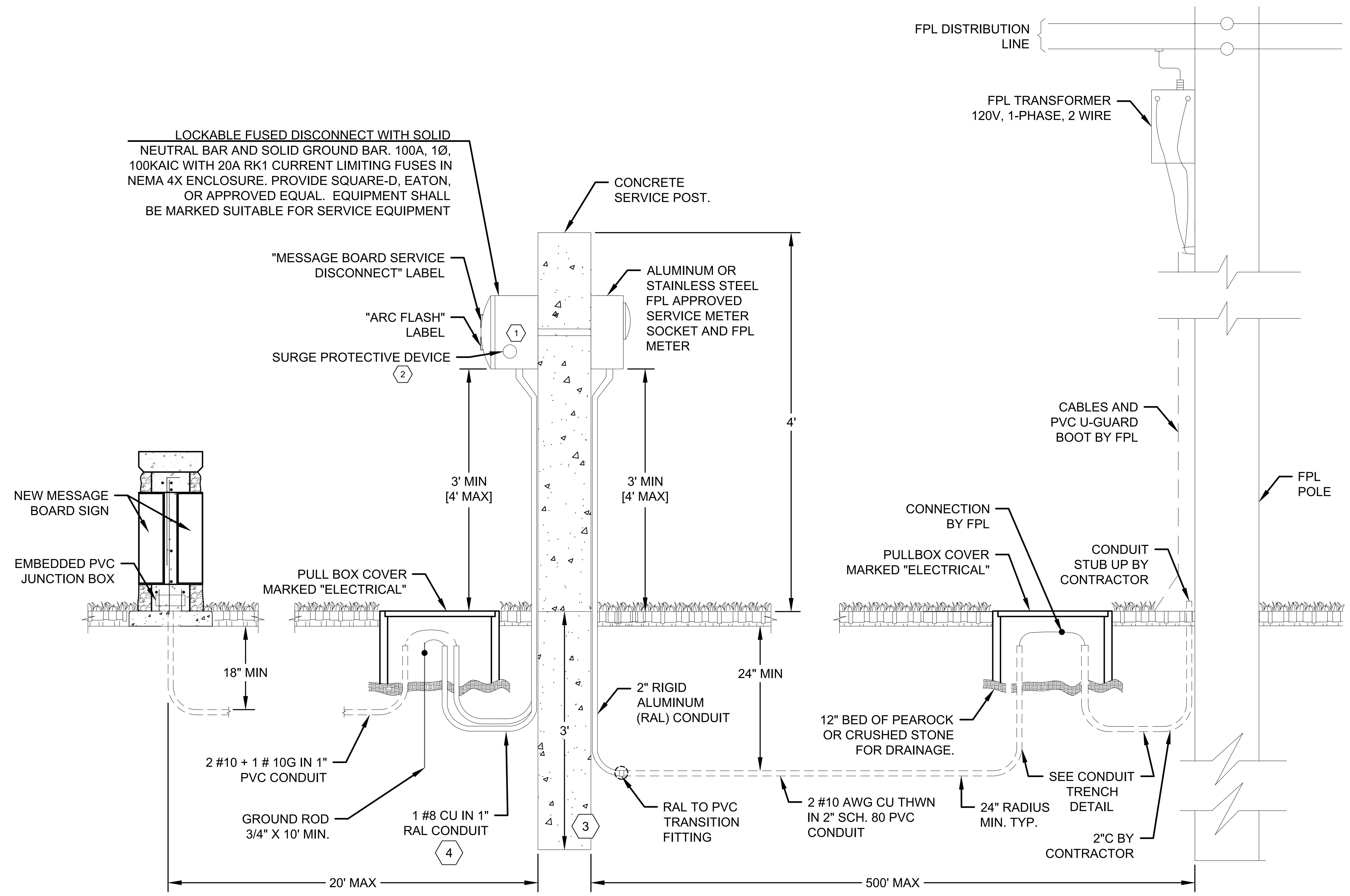
(2) SPD SHALL BE WIRED INSIDE THE ENCLOSURE. PROVIDE SQUARE D SDSA1175 OR APPROVED EQUIVALENT. CONNECT PER MANUFACTURER INSTRUCTIONS.

(3) MODIFY EMBEDMENT DEPTH AS REQUIRED BY FIELD CONDITIONS.

(4) BOND RGS CONDUIT TO GROUNDING ELECTRODE CONDUCTOR AT BOTH ENDS.

(5) NEW SIGN WITH TWO MESSAGE BOARDS (ONE ON EACH SIDE). ALPHA ECLIPSE STREET SMART 48X64 AMBER, 17MM, WITH CELLULAR RADIO.

(6) THE CONTRACTOR SHALL FURNISH ARC FLASH PROTECTION LABEL ON THE MESSAGE BOARD SERVICE DISCONNECTING MEANS. THE LABEL SHALL BE BASED OFF THE AVAILABLE FAULT CURRENT PROVIDED BY THE ELECTRIC UTILITY AND FURNISHED EQUIPMENT. THE LABEL SHALL INCLUDED INCIDENT ENERGY, ARCH FLASH PROTECTION BOUNDARIES AND PERSONAL PROTECTIVE EQUIPMENT (PPE).



SECTION
N.T.S.

PIPING LEGEND:

PVC SCHEDULE 40 CONDUIT (UNLESS OTHERWISE NOTED). REFER TO PLANS FOR SIZING.

RGS CONDUIT. REFER TO PLANS FOR SIZING AND QUANTITY.

TYPICAL SERVICE POINT DETAILS
N.T.S.

DESCRIPTION	VA
MESSAGE BOARD SIDE 1	626.4
MESSAGE BOARD SIDE 2	626.4
25% OF CONTINUOUS LOADS	313.2
TOTAL LOAD	1,566.0
AMPS@120V=13A	

SERVICE 1 LOAD CALCULATION
N.T.S.

PLOTTED BY: LINZER, FRANCINE DATE: 12/12/2022 2:45 PM
CREATED: 2022-10-04 - \\US0231-PPFSS01\WORKGROUP\2156\ACTIVE\215615952\ELECTRICAL\DRAWING\016_SVC-PNT-DETL-DISC-SMTC.DWG

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SERVICE POINT DETAIL FOR MESSAGE BOARD

Circuit Number	Source	Servicing	Feeder Voltage (V)	Power Factor	Segment Length (ft)	Wire Size (AWG or kcmil)	Conductor Material	Conduit Material	Parallel Sets	Load (VA)	Total Load (VA)	Total Amperage (A)	Conductor Impedance ZC (Ω/1000ft)	Segment Voltage Drop (V)	Total Voltage Drop (%)
	Utility XFMR	LC-A	240/480V, 1Ø	0.9	50	3	Cu	PVC	1	50	8788	18.31	0.2455	0.45	0.09%
1	LC-A	POLE 39	480V, 1Ø	0.9	139	6	Cu	PVC	1	156	3049	6.35	0.4632	0.82	0.26%
	POLE 39	POLE 40	480V, 1Ø	0.9	108	6	Cu	PVC	1	156	2893	6.03	0.4632	0.60	0.39%
	POLE 40	POLE 42	480V, 1Ø	0.9	184	6	Cu	PVC	1	92	2737	5.70	0.4632	0.97	0.59%
	POLE 42	POLE 44	480V, 1Ø	0.9	211	6	Cu	PVC	1	92	2645	5.51	0.4632	1.08	0.82%
	POLE 44	POLE 46	480V, 1Ø	0.9	200	6	Cu	PVC	1	92	2553	5.32	0.4632	0.99	1.02%
	POLE 46	POLE 48	480V, 1Ø	0.9	195	6	Cu	PVC	1	92	2461	5.13	0.4632	0.93	1.21%
	POLE 48	POLE 50	480V, 1Ø	0.9	208	6	Cu	PVC	1	92	2369	4.93	0.4632	0.95	1.41%
	POLE 50	POLE 52	480V, 1Ø	0.9	200	6	Cu	PVC	1	92	2276	4.74	0.4632	0.88	1.60%
	POLE 52	POLE 55	480V, 1Ø	0.9	305	6	Cu	PVC	1	92	2184	4.55	0.4632	1.29	1.86%
	POLE 55	POLE 57	480V, 1Ø	0.9	207	6	Cu	PVC	1	92	2092	4.36	0.4632	0.84	2.04%
	POLE 57	POLE 59	480V, 1Ø	0.9	190	6	Cu	PVC	1	92	2000	4.17	0.4632	0.73	2.19%
	POLE 59	POLE 61	480V, 1Ø	0.9	190	6	Cu	PVC	1	92	1907	3.97	0.4632	0.70	2.34%
	POLE 61	POLE 63	480V, 1Ø	0.9	221	6	Cu	PVC	1	92	1815	3.78	0.4632	0.77	2.50%
	POLE 63	POLE 65	480V, 1Ø	0.9	194	6	Cu	PVC	1	92	1723	3.59	0.4632	0.65	2.63%
	POLE 65	POLE 67	480V, 1Ø	0.9	149	6	Cu	PVC	1	92	1631	3.40	0.4632	0.47	2.73%
	POLE 67	POLE 70	480V, 1Ø	0.9	86	6	Cu	PVC	1	92	1539	3.21	0.4632	0.26	2.78%
	POLE 70	POLE 73	480V, 1Ø	0.9	170	6	Cu	PVC	1	92	1446	3.01	0.4632	0.47	2.88%
	POLE 73	POLE 76	480V, 1Ø	0.9	270	6	Cu	PVC	1	92	1354	2.82	0.4632	0.71	3.03%
	POLE 76	POLE 77	480V, 1Ø	0.9	110	6	Cu	PVC	1	92	1262	2.63	0.4632	0.27	3.08%
	POLE 77	POLE 78	480V, 1Ø	0.9	100	6	Cu	PVC	1	92	1170	2.44	0.4632	0.23	3.13%
	POLE 78	POLE 79	480V, 1Ø	0.9	120	6	Cu	PVC	1	92	1077	2.24	0.4632	0.25	3.18%
	POLE 79	POLE 80	480V, 1Ø	0.9	113	6	Cu	PVC	1	92	985	2.05	0.4632	0.21	3.23%
	POLE 80	POLE 81	480V, 1Ø	0.9	89	6	Cu	PVC	1	92	893	1.86	0.4632	0.15	3.26%
	POLE 81	POLE 82	480V, 1Ø	0.9	120	6	Cu	PVC	1	92	801	1.67	0.4632	0.19	3.30%
	POLE 82	POLE 83	480V, 1Ø	0.9	109	6	Cu	PVC	1	92	709	1.48	0.4632	0.15	3.33%
	POLE 83	POLE 84	480V, 1Ø	0.9	93	6	Cu	PVC	1	92	616	1.28	0.4632	0.11	3.35%
	POLE 84	POLE 85	480V, 1Ø	0.9	97	6	Cu	PVC	1	92	524	1.09	0.4632	0.10	3.37%
	POLE 85	POLE 86	480V, 1Ø	0.9	104	6	Cu	PVC	1	92	432	0.90	0.4632	0.09	3.39%
	POLE 86	POLE 87	480V, 1Ø	0.9	67	6	Cu	PVC	1	63	340	0.71	0.4632	0.04	3.40%
	POLE 87	POLE 90	480V, 1Ø	0.9	135	6	Cu	PVC	1	92	277	0.58	0.4632	0.07	3.42%
	POLE 90	POLE 92	480V, 1Ø	0.9	210	6	Cu	PVC	1	92	184	0.38	0.4632	0.07	3.43%
	POLE 92	POLE 94	480V, 1Ø	0.9	221	6	Cu	PVC	1	92	92	0.19	0.4632	0.04	3.44%
2	LC-A	POLE 38	480V, 1Ø	0.9	72	6	Cu	PVC	1	92	1752	3.65	0.4632	0.24	0.14%
	POLE 38	POLE 36	480V, 1Ø	0.9	208	6	Cu	PVC	1	92	1660	3.46	0.4632	0.67	0.28%
	POLE 36	POLE 34	480V, 1Ø	0.9	199	6	Cu	PVC	1	92	1568	3.27	0.4632	0.60	0.41%
	POLE 34	POLE 32	480V, 1Ø	0.9	230	6	Cu	PVC	1	92	1476	3.07	0.4632	0.66	0.55%
	POLE 32	POLE 30	480V, 1Ø	0.9	218	6	Cu	PVC	1	92	1383	2.88	0.4632	0.58	0.67%
	POLE 30	POLE 28	480V, 1Ø	0.9	190	6	Cu	PVC	1	92	1291	2.69	0.4632	0.47	0.77%
	POLE 28	POLE 26	480V, 1Ø	0.9	211	6	Cu	PVC	1	92	1199	2.50	0.4632	0.49	0.87%
	POLE 26	POLE 24	480V, 1Ø	0.9	215	6	Cu	PVC	1	92	1107	2.31	0.4632	0.46	0.96%
	POLE 24	POLE 22	480V, 1Ø	0.9	201	6	Cu	PVC	1	92	1014	2.11	0.4632	0.39	1.04%
	POLE 22	POLE 20	480V, 1Ø	0.9	221	6	Cu	PVC	1	92	922	1.92	0.4632	0.39	1.13%
	POLE 20	POLE 18	480V, 1Ø	0.9	201	6	Cu	PVC	1	92	830	1.73	0.4632	0.32	1.19%
	POLE 18	POLE 17	480V, 1Ø	0.9	85	6	Cu	PVC	1	92	738	1.54	0.4632	0.12	1.22%
	POLE 17	POLE 16	480V, 1Ø	0.9	105	6	Cu	PVC	1	92	646	1.34	0.4632	0.13	1.25%
	POLE 16	POLE 14	480V, 1Ø	0.9	62	6	Cu	PVC	1	92	553	1.15	0.4632	0.07	1.26%
	POLE 14	POLE 12	480V, 1Ø	0.9	70	6	Cu	PVC	1	92	461	0.96	0.4632	0.06	1.27%
	POLE 12	POLE 10	480V, 1Ø	0.9	117	6	Cu	PVC	1	92	369	0.77	0.4632	0.08	1.29%
	POLE 10	POLE 8	480V, 1Ø	0.9	187	6	Cu	PVC	1	92	277	0.58	0.4632	0.10	1.31%
	POLE 8	POLE 6	480V, 1Ø	0.9	209	6	Cu	PVC	1	92	184	0.38	0.4632	0.07	1.33%
	POLE 6	POLE 4	480V, 1Ø	0.9	167	6	Cu	PVC	1	92	92	0.19	0.4632	0.03	1.33%

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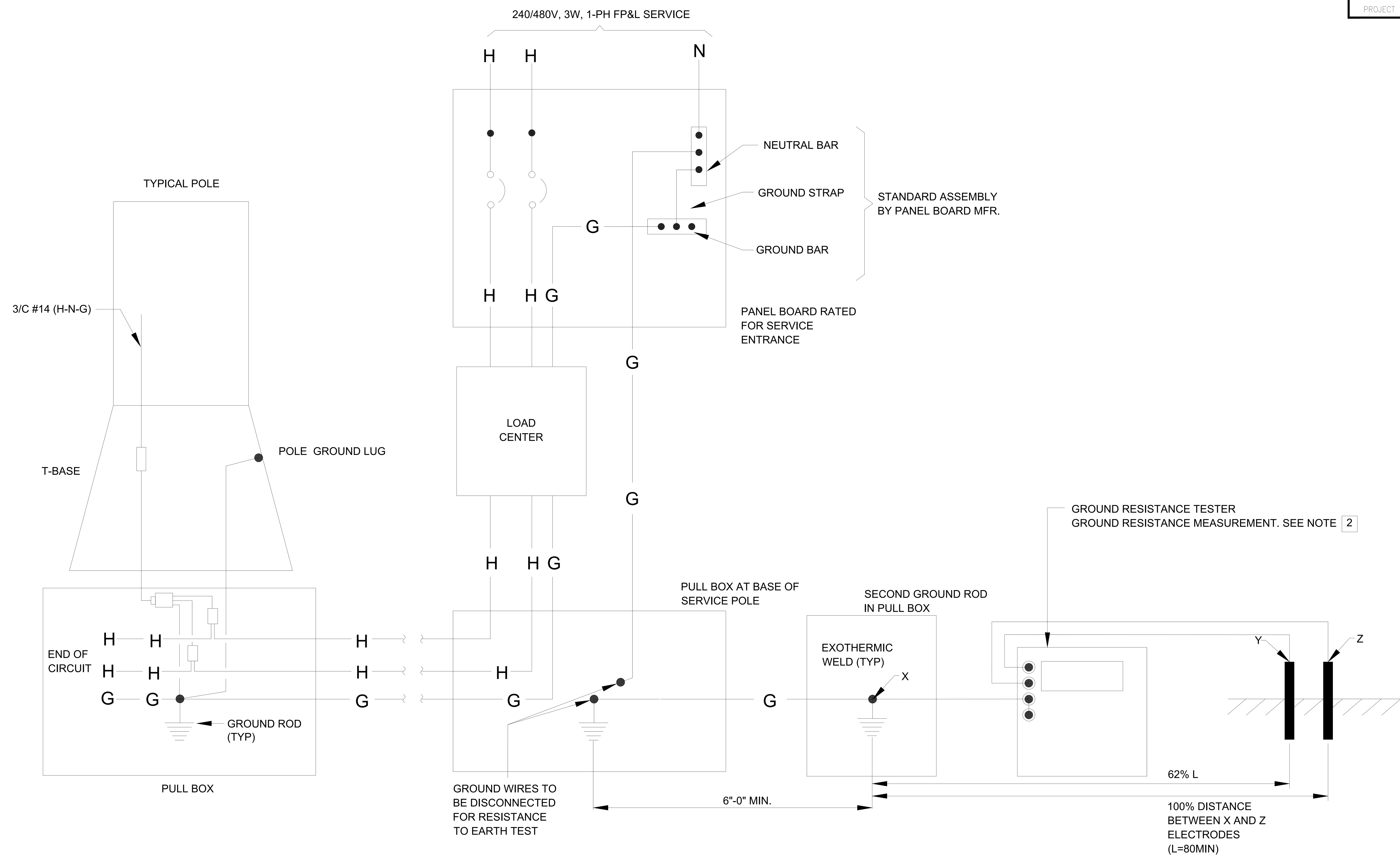
VOLTAGE DROP CALCULATIONS 1

Circuit Number	Source	Servicing	Feeder Voltage (V)	Power Factor	Segment Length (ft)	Wire Size (AWG or kcmil)	Conductor Material	Conduit Material	Parallel Sets	Load (VA)	Total Load (VA)	Total Amperage (A)	Conductor Impedance ZC (Ω/1000ft)	Segment Voltage Drop (V)	Total Voltage Drop (%)
3	LC-A	POLE 37	480V, 1Ø	0.9	229	6	Cu	PVC	1	92	1752	3.65	0.4632	0.77	0.25%
	POLE 37	POLE 35	480V, 1Ø	0.9	220	6	Cu	PVC	1	92	1660	3.46	0.4632	0.70	0.40%
	POLE 35	POLE 33	480V, 1Ø	0.9	220	6	Cu	PVC	1	92	1568	3.27	0.4632	0.67	0.54%
	POLE 33	POLE 31	480V, 1Ø	0.9	228	6	Cu	PVC	1	92	1476	3.07	0.4632	0.65	0.68%
	POLE 31	POLE 29	480V, 1Ø	0.9	189	6	Cu	PVC	1	92	1383	2.88	0.4632	0.50	0.78%
	POLE 29	POLE 27	480V, 1Ø	0.9	201	6	Cu	PVC	1	92	1291	2.69	0.4632	0.50	0.89%
	POLE 27	POLE 25	480V, 1Ø	0.9	220	6	Cu	PVC	1	92	1199	2.50	0.4632	0.51	0.99%
	POLE 25	POLE 23	480V, 1Ø	0.9	215	6	Cu	PVC	1	92	1107	2.31	0.4632	0.46	1.09%
	POLE 23	POLE 21	480V, 1Ø	0.9	200	6	Cu	PVC	1	92	1014	2.11	0.4632	0.39	1.17%
	POLE 21	POLE 19	480V, 1Ø	0.9	195	6	Cu	PVC	1	92	922	1.92	0.4632	0.35	1.24%
	POLE 19	POLE 15	480V, 1Ø	0.9	276	6	Cu	PVC	1	92	830	1.73	0.4632	0.44	1.33%
	POLE 15	POLE 13	480V, 1Ø	0.9	95	6	Cu	PVC	1	92	738	1.54	0.4632	0.14	1.36%
	POLE 13	POLE 11	480V, 1Ø	0.9	143	6	Cu	PVC	1	92	646	1.34	0.4632	0.18	1.40%
	POLE 11	POLE 9	480V, 1Ø	0.9	158	6	Cu	PVC	1	92	553	1.15	0.4632	0.17	1.43%
	POLE 9	POLE 7	480V, 1Ø	0.9	193	6	Cu	PVC	1	92	461	0.96	0.4632	0.17	1.47%
	POLE 7	POLE 5	480V, 1Ø	0.9	196	6	Cu	PVC	1	92	369	0.77	0.4632	0.14	1.50%
	POLE 5	POLE 3	480V, 1Ø	0.9	181	6	Cu	PVC	1	92	277	0.58	0.4632	0.10	1.52%
	POLE 3	POLE 2	480V, 1Ø	0.9	108	6	Cu	PVC	1	92	184	0.38	0.4632	0.04	1.53%
	POLE 2	POLE 1	480V, 1Ø	0.9	113	6	Cu	PVC	1	92	92	0.19	0.4632	0.02	1.53%
4	LC-A	POLE 41	480V, 1Ø	0.9	278	6	Cu	PVC	1	92	2184	4.55	0.4632	1.17	0.34%
	POLE 41	POLE 43	480V, 1Ø	0.9	187	6	Cu	PVC	1	92	2092	4.36	0.4632	0.76	0.50%
	POLE 43	POLE 45	480V, 1Ø	0.9	224	6	Cu	PVC	1	92	2000	4.17	0.4632	0.86	0.68%
	POLE 45	POLE 47	480V, 1Ø	0.9	185	6	Cu	PVC	1	92	1907	3.97	0.4632	0.68	0.82%
	POLE 47	POLE 49	480V, 1Ø	0.9	199	6	Cu	PVC	1	92	1815	3.78	0.4632	0.70	0.96%
	POLE 49	POLE 51	480V, 1Ø	0.9	204	6	Cu	PVC	1	92	1723	3.59	0.4632	0.68	1.10%
	POLE 51	POLE 53	480V, 1Ø	0.9	180	6	Cu	PVC	1	92	1631	3.40	0.4632	0.57	1.22%
	POLE 53	POLE 54	480V, 1Ø	0.9	132	6	Cu	PVC	1	92	1539	3.21	0.4632	0.39	1.30%
	POLE 54	POLE 56	480V, 1Ø	0.9	200	6	Cu	PVC	1	92	1446	3.01	0.4632	0.56	1.42%
	POLE 56	POLE 58	480V, 1Ø	0.9	186	6	Cu	PVC	1	92	1354	2.82	0.4632	0.49	1.52%
	POLE 58	POLE 60	480V, 1Ø	0.9	200	6	Cu	PVC	1	92	1262	2.63	0.4632	0.49	1.62%
	POLE 60	POLE 62	480V, 1Ø	0.9	214	6	Cu	PVC	1	92	1170	2.44	0.4632	0.48	1.72%
	POLE 62	POLE 64	480V, 1Ø	0.9	197	6	Cu	PVC	1	92	1077	2.24	0.4632	0.41	1.81%
	POLE 64	POLE 66	480V, 1Ø	0.9	203	6	Cu	PVC	1	92	985	2.05	0.4632	0.39	1.89%
	POLE 66	POLE 68	480V, 1Ø	0.9	95	6	Cu	PVC	1	92	893	1.86	0.4632	0.16	1.92%
	POLE 68	POLE 69	480V, 1Ø	0.9	49	6	Cu	PVC	1	92	801	1.67	0.4632	0.08	1.94%
	POLE 69	POLE 71	480V, 1Ø	0.9	112	6	Cu	PVC	1	92	709	1.48	0.4632	0.15	1.97%
	POLE 71	POLE 72	480V, 1Ø	0.9	64	6	Cu	PVC	1	92	616	1.28	0.4632	0.08	1.99%
	POLE 72	POLE 74	480V, 1Ø	0.9	183	6	Cu	PVC	1	92	524	1.09	0.4632	0.19	2.03%
	POLE 74	POLE 75	480V, 1Ø	0.9	90	6	Cu	PVC	1	92	432	0.90	0.4632	0.08	2.04%
	POLE 75	POLE 88	480V, 1Ø	0.9	1251	6	Cu	PVC	1	63	340	0.71	0.4632	0.82	2.21%
	POLE 88	POLE 89	480V, 1Ø	0.9	32	6	Cu	PVC	1	92	277	0.58	0.4632	0.02	2.22%
	POLE 89	POLE 91	480V, 1Ø	0.9	172	6	Cu	PVC	1	92	184	0.38	0.4632	0.06	2.23%
	POLE 91	POLE 93	480V, 1Ø	0.9	212	6	Cu	PVC	1	92	92	0.19	0.4632	0.04	2.24%

VOLTAGE DROP CALCULATIONS 2



RESISTANCE TO EARTH (FALL OF POTENTIAL TEST (62% METHOD)) & CONTINUITY TESTS SCHEMATIC

GROUND TEST NOTES

1. THE INTENTION OF THIS TEST IS TO DETERMINE THE RESISTANCE TO EARTH OF THE SERVICE POINT. THIS IS MORE ACCURATE THAN THE "CLAMP-ON" METHOD AND THEREFORE IT IS THE METHOD THAT SHALL BE USED UNLESS THERE IS A LACK OF SUFFICIENT REAL ESTATE.
2. USE GROUND RESISTANCE TESTER, AEMC MODEL 4620, 4630 OR APPROVED EQUAL, CALIBRATED WITHIN THE PAST 180 DAYS. RESISTANCE-TO-GROUND MEASUREMENT ABOVE 25 OHMS SHALL BE CONSIDERED INADEQUATE.
3. ELECTRICAL CONTRACTOR SHALL SUBMIT CERTIFICATION LETTER CONFIRMING 1,2 & 3 INCLUDING READING, CALCULATION AND RESULTS.

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SUPERVISED BY:					

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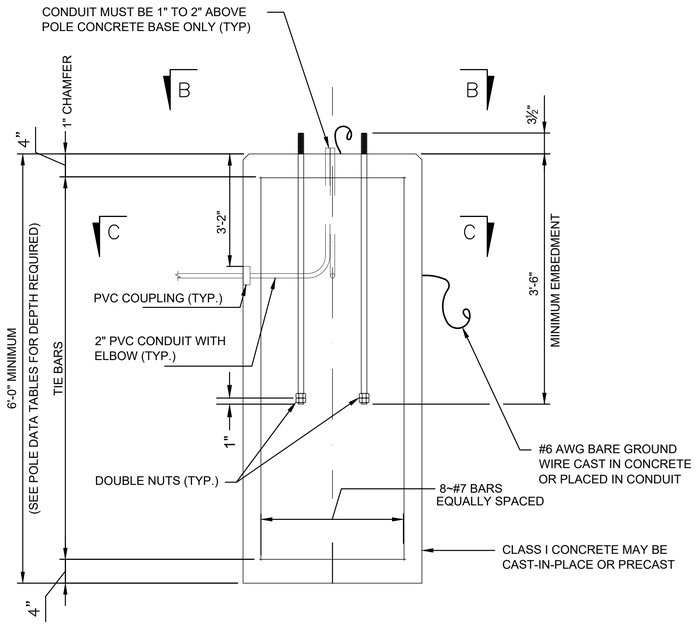
MIAMI, FLORIDA 33128

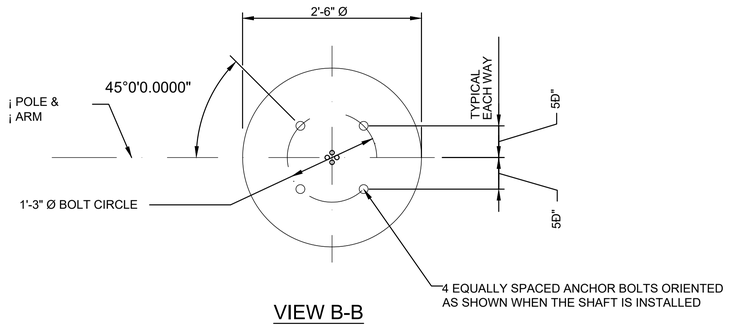
GROUND TEST 62% METHOD



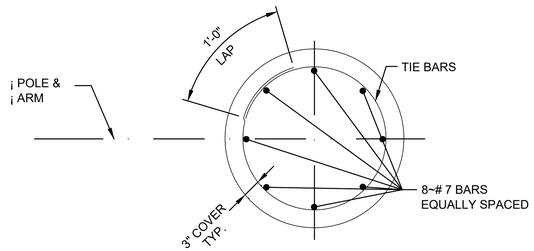
FOUNDATION

DRILLED SHAFT FOUNDATION DETAILS

#4 TIE BARS @ 12" CENTERS (MAX.) OR D10 (OR W10) SPIRAL @ 6" PITCH, 3 FLAT TURNS TOP AND 1 FLAT TURN BOTTOM.



VIEW B-B



SECTION C-C

FOUNDATION TABLE W/ARM		
WIND SPEED (MPH)	DESIGN MOUNTING HEIGHT (FT)	TOTAL DEPTH (FT)
160	15	*
160	40	*

*THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, WITH DETAILS AND CALCULATIONS SIGNED AND SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF FLORIDA. THE LIGHT POLES AND FOUNDATIONS SHALL MEET FLORIDA BUILDING CODE REQUIREMENTS AND THE WIND LOAD REQUIREMENTS PROVIDED HEREIN.

PLOTTED BY: LINDER, FRANCINE DATE: 12/12/2022 2:47 PM
CREATED: 2022-10-04 - \\US0231-PPSSS01\WORKGROUP\215615952\ACTIVE\215615952\ELECTRICAL\DRAWING\000_FDTN-DETL.DWG

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CHECKED BY	JN		CHECKED BY		
SUPERVISED BY:					

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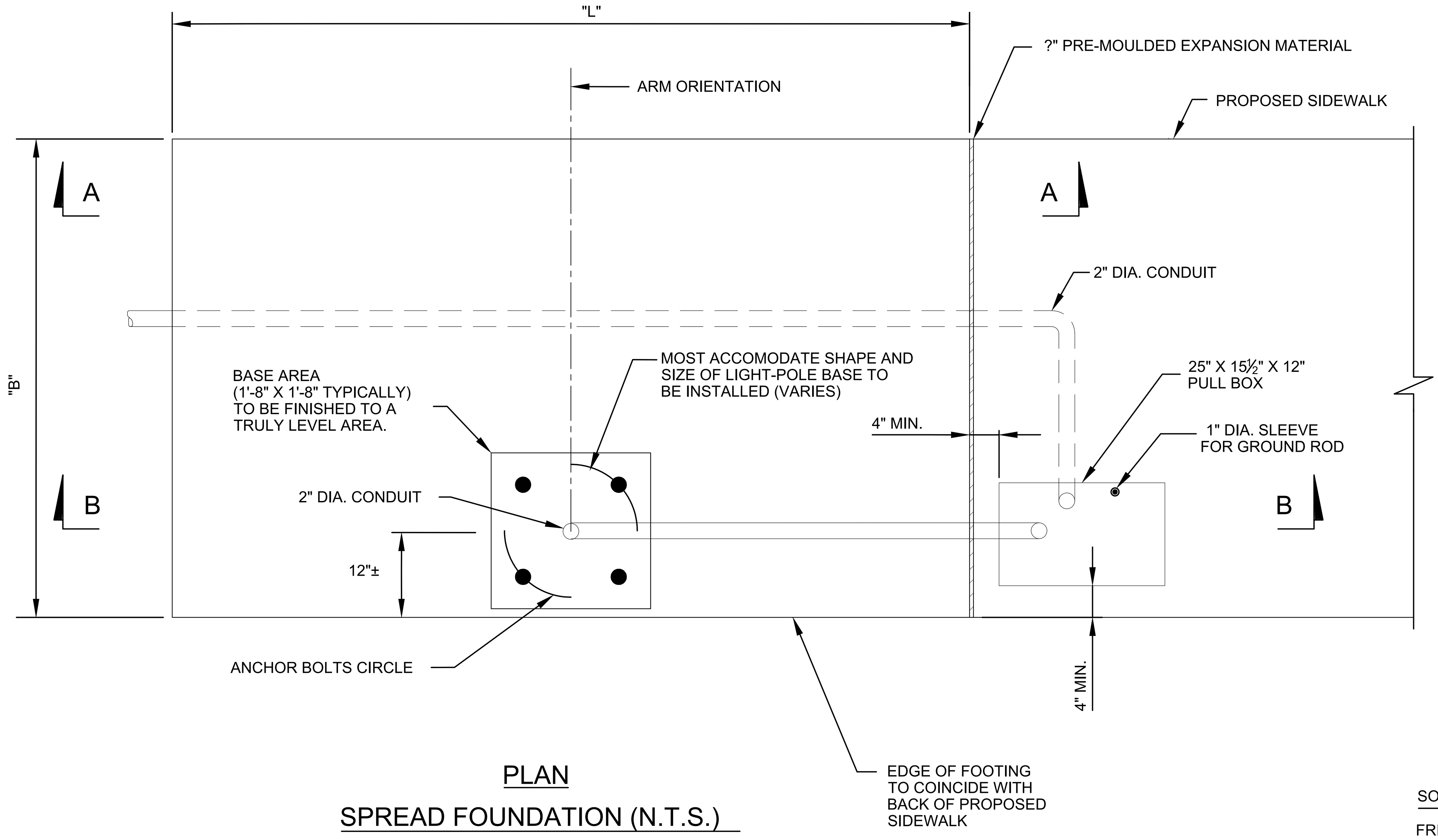
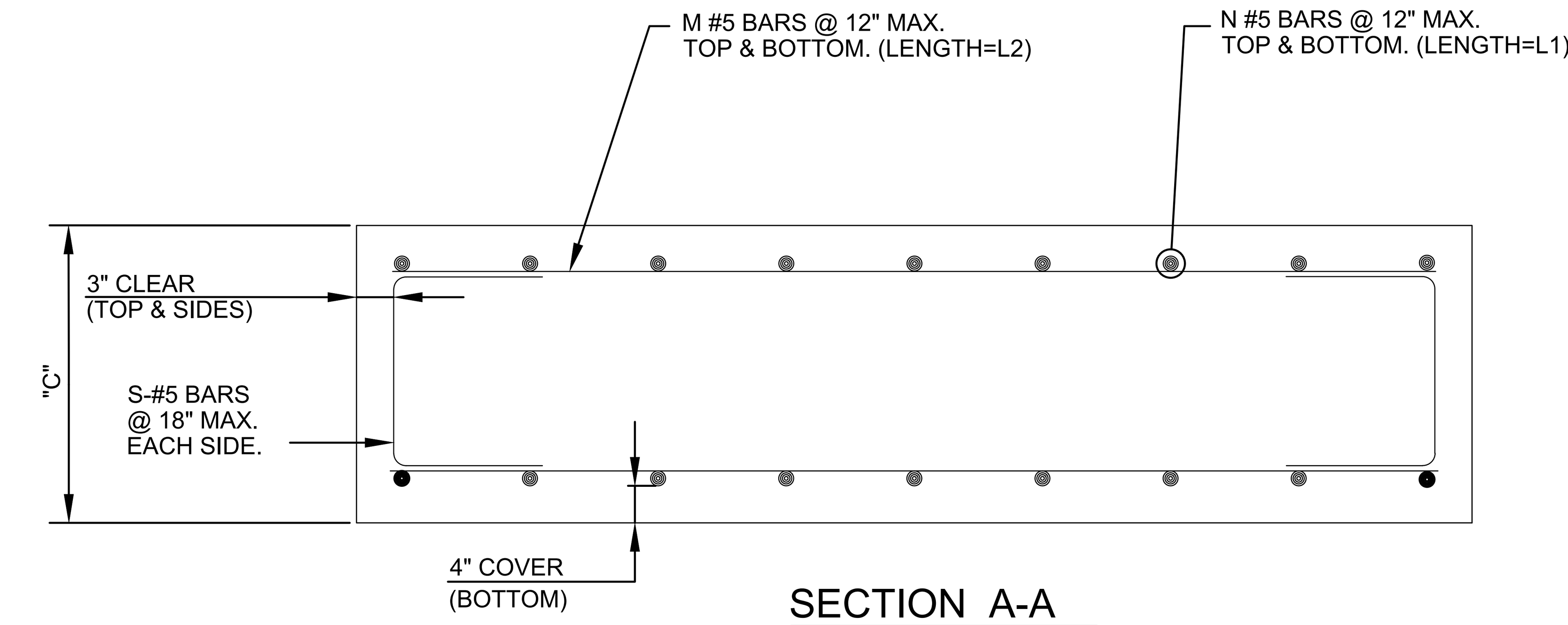
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST.
MIAMI, FLORIDA 33128

FOUNDATION DETAIL

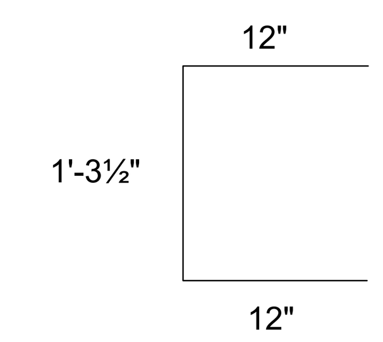
NOTE:
SPREAD FOUNDATION SHALL BE ENGRAVED WITH THIS WARNING: "FOUNDATION".



PLAN
SPREAD FOUNDATION (N.T.S.)



SECTION A-A

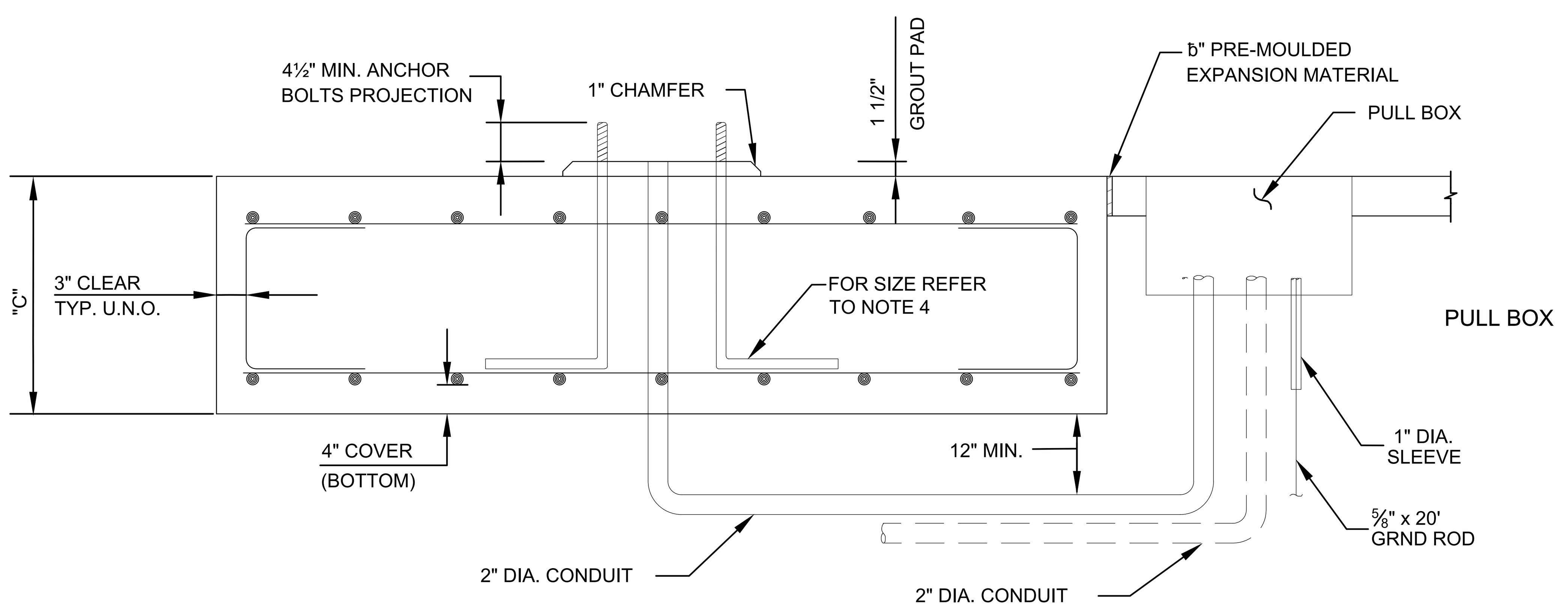


S #5 BAR

SOIL DESIGN PARAMETERS:

FRICTION ANGLE : *
SOIL DRY UNIT WEIGHT : *
SOIL SUBMERGED UNIT WEIGHT : *
ALLOWABLE BEARING CAPACITY: *
ULTIMATE BEARING CAPACITY : *
PERFORMANCE FACTOR: *

* TO BE PROVIDED BY GEOTECHNICAL ENGINNER



SECTION B-B
(CONTRACTOR MAY ADJUST BARS AS REQUIRED TO AVOID CONFLICT WITH CONDUITS)

TABLE OF SPREAD FOOTING PARAMETERS

POLE NO.	STATION	FOOTING TYPE	DIM. L	DIM. B	DIM. C	N	M	L1	L2	S
XX-X	XX+XX	1	*	*	*	*	*	*	*	*

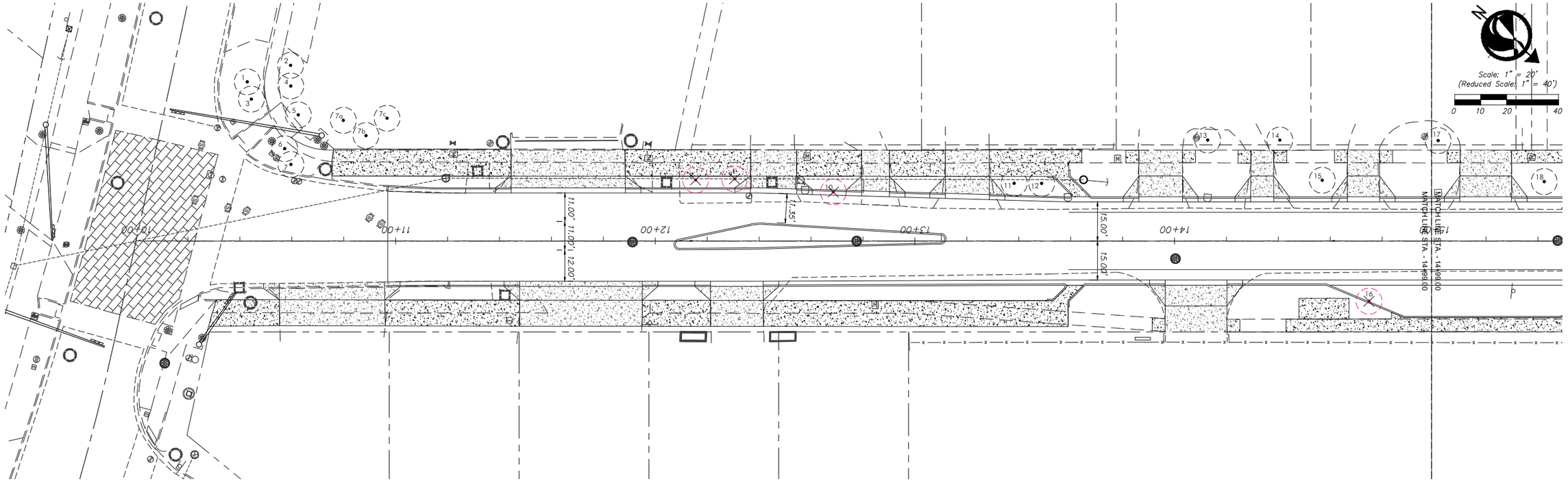
NOTE: N & M INCLUDE TOP AND BOTTOM STEEL MATS

* THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, WITH DETAILS AND CALCULATIONS SIGNED AND SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF FLORIDA. THE LIGHT POLES AND FOUNDATIONS SHALL MEET FLORIDA BUILDING CODE REQUIREMENTS AND THE WIND LOAD REQUIREMENTS PROVIDED HEREIN.

NOTES:

1. USE SPREAD FOUNDATION ONLY IF/WHERE REQUIRED TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES.
2. DESIGN SPECIFICATIONS:
   - 160 MPH WIND SPEED
   - FDOT STRUCTURES MANUAL, JANUARY 2023
   - AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS (6TH ED)
   - WITH INTERIM REVISIONS AND AS MODIFIED BY FDOT
3. CONCRETE: CLASS II CONCRETE F'C=3400 PSI 28 DAYS MINIMUM COMP. STRENGTH.
4. SOIL SHALL BE CAPABLE OF WITHSTANDING BEARING PRESSURE.
5. ALL CONDUITS SHALL BE P.V.C. SCHEDULE 40.
6. WORK THIS SHEET IN CONJUNCTION WITH LIGHTING PLANS.
7. CONDUIT SHALL NOT BE EMBEDDED IN FOOTING EXCEPT AS SHOWN IN SECTION B-B.

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER ROAD TO SW 184TH STREET
PROJECT NO. 215615952 SHEET LA-1 OF 35



EXISTING TREE DISPOSITION LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE HT.(ft.)	SIZE SPD.(ft	SIZE DBH.(in.)	DISPOSITION REMAIN	DISPOSITION REMOVE	DISPOSITION TRANSPL.	MITIGATION S.F. CANOPY
1	Jatropha integerrima	Jatropha	6	6	3	X			
2	Jatropha integerrima	Jatropha	6	6	3	X			
3	Sabal palmetto	Sabal Palm	10	10	10	X			
4	Sabal palmetto	Sabal Palm	15	10	10	X			
5	Sabal palmetto	Sabal Palm	15	10	10	X			
6	Sabal palmetto	Sabal Palm	10	10	10	X			
7	Jatropha integerrima	Jatropha	6	6	3	X			
7A	Roystonea regia	Royal Palm	20	10	10	X			
7B	Roystonea regia	Royal Palm	20	10	10	X			
7C	Roystonea regia	Royal Palm	20	10	10	X			
8	Syagrus romanzoffiana	Queen Palm	10	10	10		X		N/A
9	Syagrus romanzoffiana	Queen Palm	15	10	10		X		N/A
10	Syagrus romanzoffiana	Queen Palm	15	10	10		X		N/A
11	Eriobotrya japonica	Loquat	10	8	4	X			
12	Eriobotrya japonica	Loquat	10	8	4	X			
13	DEAD						X		N/A
14	Sabal palmetto	Sabal Palm	12	12	Multi	X			
15	Cocos nucifera	Coconut Palm	15	10	10	X			
16	Roystonea regia	Royal Palm	20	10	10		X		79

LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE TRANSPLANTED
- NEW LOCATION OF TRANSPLANTED TREE

PLOTTED BY: KEHL SEMER DATE: 12/14/2022 1:51 PM
CREATED: 2022-12-14 - D:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\DSLA SHEETS.DWG

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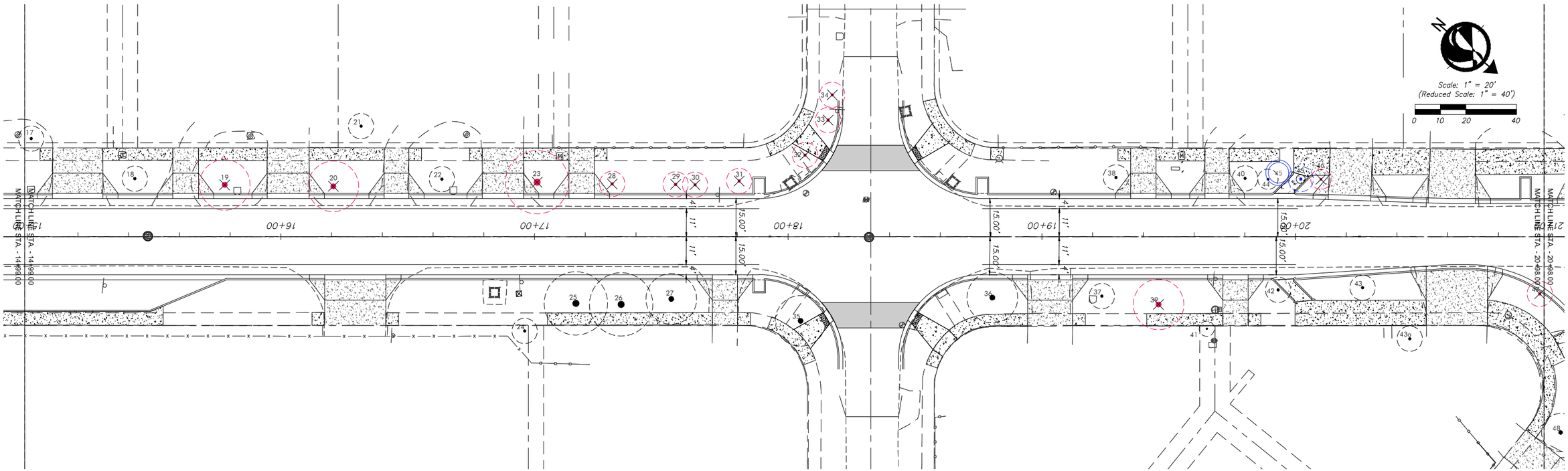
CHECKED BY	K.S.	2-10-2022	CHECKED BY		

SUPERVISED BY:

MIAMI-DADE
PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

EXISTING TREE DISPOSITION PLAN -FRANJO ROAD - 100% CDs-

MIAMI–DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER ROAD TO SW 184TH STREET
PROJECT NO. 215615952 SHEET LA-2 OF 35



EXISTING TREE DISPOSITION LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE HT.(ft.)	SIZE SPD.(ft.)	SIZE DBH.(in.)	DISPOSITION REMAIN	DISPOSITION REMOVE	DISPOSITION TRANSPL.	MITIGATION S.F. CANOPY
17	Adonidia merrillii	Christmas Palm	8	10	Multi	X			
18	Roystonea regia	Royal Palm	35	10	10	X			
19	Bucida buceras	Black Olive	30	20	31		X		628
20	Swietenia mahagoni	Mahogany	30	20	32		X		628
21	Phoenix canariensis	Canary Island Date Palm	6	10	10	X			
22	Cocos nucifera	Coconut Palm	35	10	10	X			
23	Swietenia mahagoni	Mahogany	25	25	25.2		X		982
24	Filicium decipiens	Japanese Fern Tree	20	15	Multi	X			
25	Swietenia mahagoni	Mahogany	30	30	29	X			
26	Swietenia mahagoni	Mahogany	30	25	26.5	X			
27	Swietenia mahagoni	Mahogany	20	20	20+18	X			
28	Syagrus romanzoffiana	Queen Palm	20	10	10		X		N/A
29	Syagrus romanzoffiana	Queen Palm	12	10	10		X		N/A
30	Syagrus romanzoffiana	Queen Palm	10	10	10		X		N/A
31	Syagrus romanzoffiana	Queen Palm	15	10	10		X		N/A
32	Syagrus romanzoffiana	Queen Palm	12	10	10		X		N/A
33	Syagrus romanzoffiana	Queen Palm	8	10	10		X		N/A
34	Syagrus romanzoffiana	Queen Palm	15	10	10		X		N/A
35	Swietenia mahagoni	Mahogany	30	20	26.5	X			
36	Swietenia mahagoni	Mahogany	30	20	26	X			
37	Roystonea regia	Royal Palm	35	10	10	X			
38	Roystonea regia	Royal Palm	35	10	10	X			
39	Bauhinia blakeana	Hong Kong Orchid	30	25	20+21+21		X		N/A
40	Roystonea regia	Royal Palm	40	10	10	X			
41	Bursera simaruba	Gumbo Limbo	12	6	6	X			
42	Ptychosperma elegans	Solitaire Palm	12	10	Multi	X			
43	Ptychosperma elegans	Solitaire Palm	12	10	10	X			
43A	Cocos nucifera	Coconut Palm	20	10	10	X			
44	Coccoloba uvifera	Sea Grape	10	4	Multi	X			
45	Plumeria speciosa	Franji Pani	12	6	Multi			X	
46	Coccoloba uvifera	Sea Grape	10	5	Multi		X		20
47	Roystonea regia	Royal Palm	40	10	10		X		79

LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE TRANSPLANTED
- NEW LOCATION OF TRANSPLANTED TREE

PLOTTED BY: KEHL SEMER DATE: 12/14/2022 1:51 PM
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HIGHWAY DIVISION
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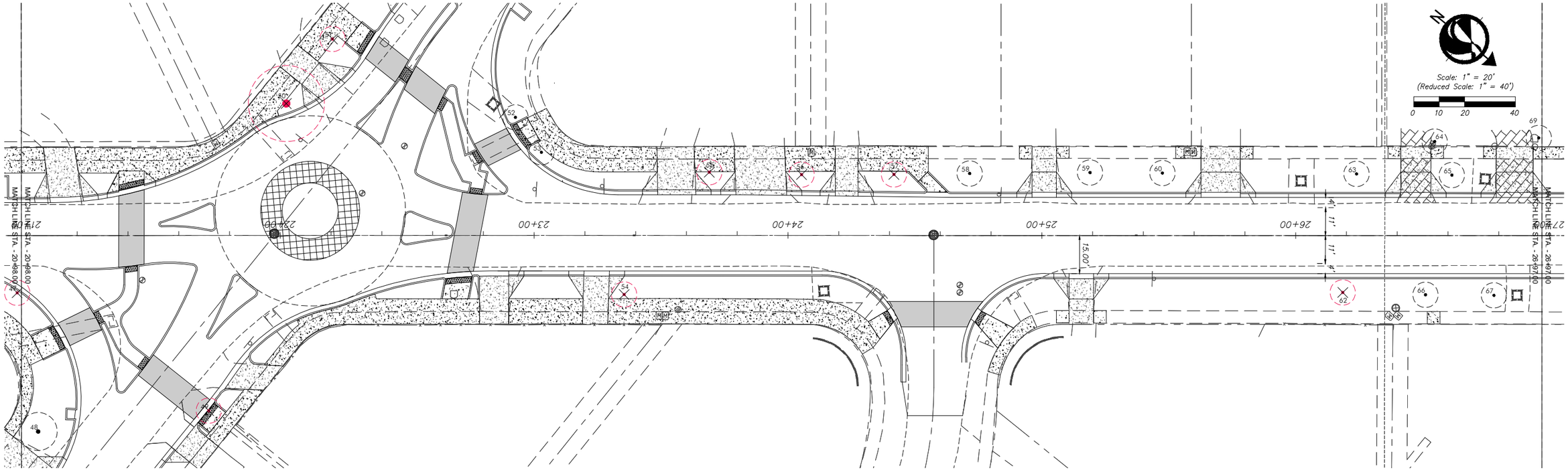
MIAMI, FLORIDA 33128

EXISTING TREE DISPOSITION PLAN -FRANJO ROAD - 100% CDs-

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER ROAD TO SW 184TH STREET
PROJECT NO. 215615952 SHEET LA-3 OF 35



EXISTING TREE DISPOSITION LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE HT.(ft.)	SIZE SPD.(ft.)	SIZE DBH.(in.)	DISPOSITION REMAIN	DISPOSITION REMOVE	DISPOSITION TRANSPL.	MITIGATION S.F. CANOPY
48	Ficus benjamina	Benjamin Fig	20	15	Multi	X			
49	Dypsis decaryi	Triangle Palm	15	10	10		X		79
50	Swietenia mahagoni	Mahogany	35	35	25		X		1924
51	Swietenia mahagoni	Mahogany	20	8	6		X		50
52	Cocos nucifera	Coconut Palm	15	10	10	X			
53	Cocos nucifera	Coconut Palm	15	10	10	X			
54	Roystonea regia	Royal Palm	35	10	10		X		79
55	Phoenix canariensis	Canary Island Date Palm	10	15	14		X		177
56	Roystonea regia	Royal Palm	35	10	10		X		79
57	Roystonea regia	Royal Palm	35	10	10		X		79
58	Roystonea regia	Royal Palm	35	10	10	X			
59	Roystonea regia	Royal Palm	30	10	10	X			
60	Roystonea regia	Royal Palm	40	10	10	X			
61	Intentionally omitted								
62	Ficus benjamina	Benjamin Fig	25	15	Multi		X		N/A
63	Roystonea regia	Royal Palm	35	10	10	X			
64	Adonidia merrillii	Christmas Palm	10	10	3	X			
65	Roystonea regia	Royal Palm	30	10	10	X			
66	Roystonea regia	Royal Palm	45	10	10	X			
67	Roystonea regia	Royal Palm	30	10	10	X			
68	Intentionally omitted								
69	Adonidia merrillii	Christmas Palm	10	10	3	X			

LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE TRANSPLANTED
- NEW LOCATION OF TRANSPLANTED TREE

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MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
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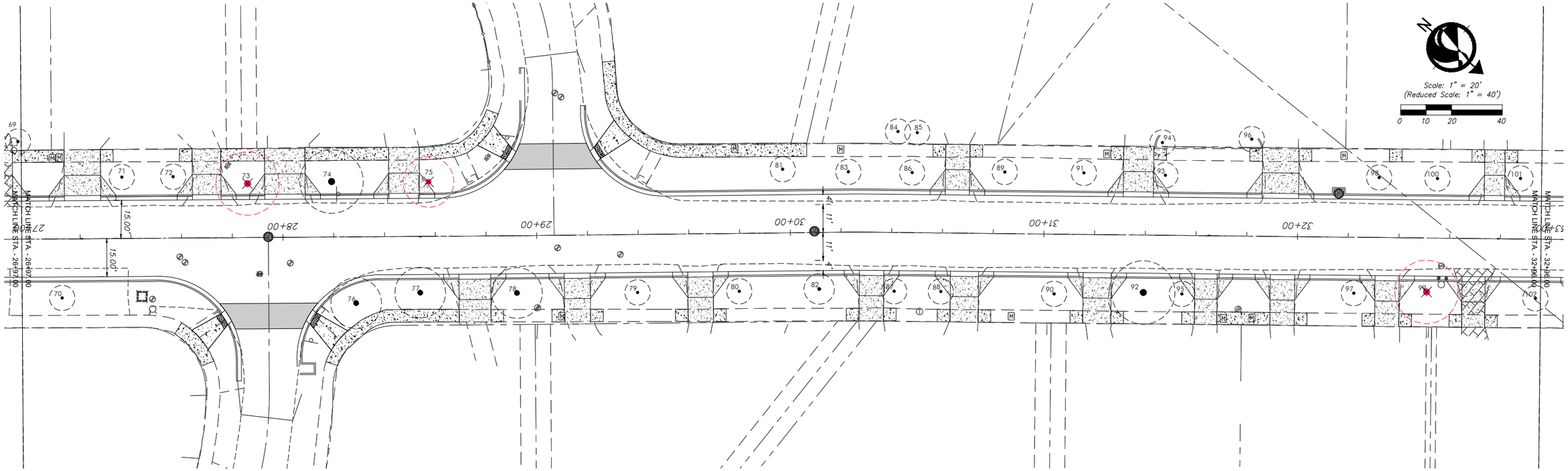
FRANJO ROAD
FROM OLD CUTLER ROAD TO SW 184TH STREET
PROJECT NO. 215615952 SHEET L-4 OF 35



EXISTING TREE DISPOSITION LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE HT.(ft.)	SPD.(ft.)	DBH.(in.)	DISPOSITION REMAIN	REMOVE	TRANSPL.	MITIGATION S.F. CANOPY
70	Roystonea regia	Royal Palm	35	10	10	X			
71	Roystonea regia	Royal Palm	30	10	10	X			
72	Roystonea regia	Royal Palm	35	10	10	X			
73	Bucida buceras	Black Olive	25	30	22		X		1414
74	Bucida buceras	Black Olive	25	30	21.6	X			
75	Bucida buceras	Black Olive	25	25	18		X		980
76	Bucida buceras	Black Olive	30	20	27	X			
77	Bucida buceras	Black Olive	25	20	20+15+7	X			
78	Bucida buceras	Black Olive	25	20	26	X			
79	Roystonea regia	Royal Palm	35	10	10	X			
80	Roystonea regia	Royal Palm	35	10	10	X			
81	Roystonea regia	Royal Palm	30	10	10	X			
82	Persea americana	Avocado	12	10	14	X			
83	Roystonea regia	Royal Palm	35	10	10	X			
84	Syagrus romanzoffiana	Queen Palm	12	10	10	X			
85	Syagrus romanzoffiana	Queen Palm	12	10	10	X			
86	Roystonea regia	Royal Palm	35	10	10	X			
87	Roystonea regia	Royal Palm	35	10	10	X			
88	Roystonea regia	Royal Palm	35	10	10	X			
89	Roystonea regia	Royal Palm	40	10	10	X			
90	Roystonea regia	Royal Palm	40	10	10	X			
91	Roystonea regia	Royal Palm	35	10	10	X			
92	Delonix Regia	Royal Poinciana	20	25	20	X			
93	Roystonea regia	Royal Palm	35	10	10	X			
94	Adonidia merrillii	Christmas Palm	12	10	Multi	X			
95	Roystonea regia	Royal Palm	25	10	10	X			
96	Adonidia merrillii	Christmas Palm	15	10	Multi	X			
97	Cocos nucifera	Coconut Palm	25	10	10	X			
98	Roystonea regia	Royal Palm	25	10	10	X			
99	Quercus virginiana	Live Oak	30	25	22		X		980
100	Roystonea regia	Royal Palm	30	10	10	X			
101	Roystonea regia	Royal Palm	30	10	10	X			
102	Roystonea regia	Royal Palm	30	10	10	X			

LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE TRANSPLANTED
- NEW LOCATION OF TRANSPLANTED TREE

PLOTTED BY: KEHL SEMER DATE: 12/14/2022 1:51 PM
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CHECKED BY	K.S.	2-10-2022	CHECKED BY		

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PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
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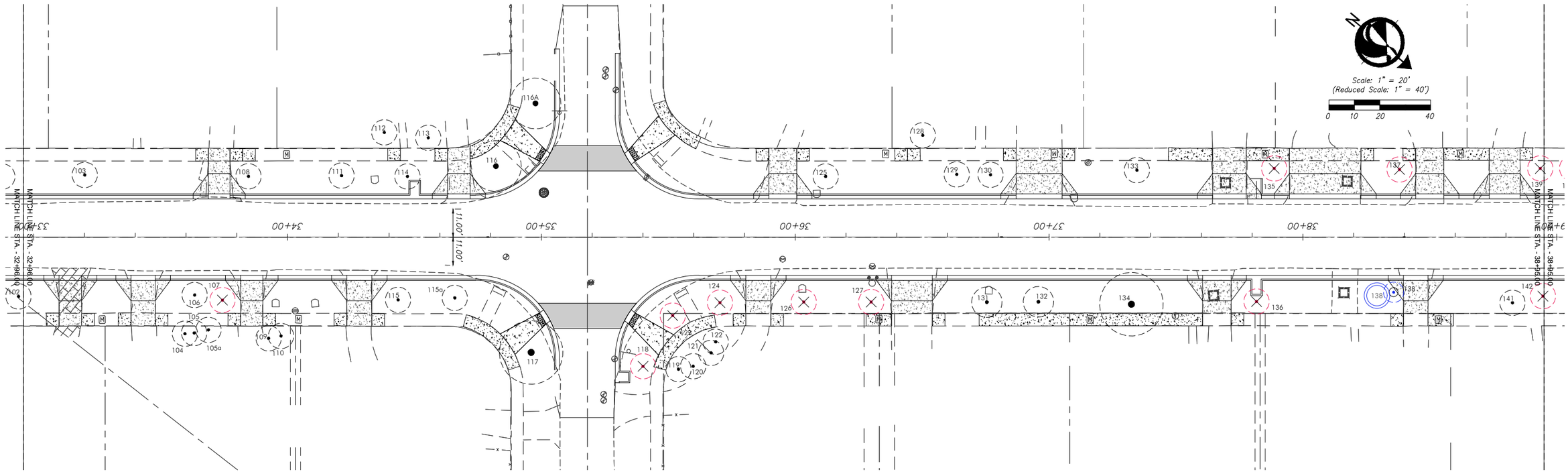
EXISTING TREE DISPOSITION PLAN -FRANJO ROAD - 100% CDs-

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER ROAD TO SW 184TH STREET
PROJECT NO. 215615952 SHEET LA-5 OF 35



EXISTING TREE DISPOSITION LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE HT.(ft.)	SIZE SPD.(ft.)	SIZE DBH.(in.)	DISPOSITION REMAIN	DISPOSITION REMOVE	DISPOSITION TRANSPL.	MITIGATION S.F. CANOPY
103	Roystonea regia	Royal Palm	30	10	10	X			
104	Washingtonia robusta	Mexican Fan Palm	4	10	10	X			
105	Phoenix canariensis	Canary Island Date Palm	20	10	10	X			
105a	Washingtonia robusta	Mexican Fan Palm	4	10	10	X			
106	Cocos nucifera	Coconut Palm	20	10	10	X			
107	Syagrus romanzoffiana	Queen Palm	8	10	10		X		N/A
108	Roystonea regia	Royal Palm	25	10	10	X			
109	Dypsis lutescens	Areca Palm	20	10	Multi	X			
110	Dypsis lutescens	Areca Palm	20	10	Multi	X			
111	Roystonea regia	Royal Palm	40	10	10	X			
112	Cocos nucifera	Coconut Palm	40	10	10	X			
113	Cocos nucifera	Coconut Palm	40	10	10	X			
114	Roystonea regia	Royal Palm	30	10	10	X			
115	Cocos nucifera	Coconut Palm	12	10	10	X			
115a	Cocos nucifera	Coconut Palm	10	10	10	X			
116	Quercus virginiana	Live Oak	20	20	17	X			
116A	Quercus virginiana	Live Oak	20	20	12	X			
117	Delonix Regia	Royal Poinciana	25	25	27	X			
118	Syagrus romanzoffiana	Queen Palm	20	10	10		X		N/A
119	Sabal palmetto	Sabal Palm	40	10	10	X			
120	Sabal palmetto	Sabal Palm	12	10	10	X			
121	Sabal palmetto	Sabal Palm	12	10	10	X			
122	Sabal palmetto	Sabal Palm	40	10	10	X			
123	Syagrus romanzoffiana	Queen Palm	15	10	10		X		N/A
124	Syagrus romanzoffiana	Queen Palm	15	10	10		X		N/A
125	Roystonea regia	Royal Palm	45	10	10	X			
126	Syagrus romanzoffiana	Queen Palm	12	10	10		X		N/A
127	Syagrus romanzoffiana	Queen Palm	12	10	10		X		N/A
128	Roystonea regia	Royal Palm	40	10	10	X			
129	Tabebuia heptaphylla	Pink Trumpet Tree	20	10	13.5	X			
130	Tabebuia heptaphylla	Pink Trumpet Tree	15	10	5.6+6	X			
131	Quercus virginiana	Live Oak	15	12	15.4	X			
132	Quercus virginiana	Live Oak	15	12	16.5	X			
133	Sabal palmetto	Sabal Palm	15	10	10	X			
134	Bursera simaruba	Gumbo limbo	15	30	Multi	X			
135	Syagrus romanzoffiana	Queen Palm	15	10	10		X		N/A
136	Syagrus romanzoffiana	Queen Palm	15	10	10		X		N/A
137	Syagrus romanzoffiana	Queen Palm	15	10	10		X		N/A
138	Bulnesia arborea	Verawood	8	6	2+2+3+3.2+4			X	
139	Syagrus romanzoffiana	Queen Palm	20	10	10		X		N/A
140	Syagrus romanzoffiana	Queen Palm	20	10	10		X		N/A
141	Adonidia merrillii	Christmas Palm	12	10	Multi	X			
142	Syagrus romanzoffiana	Queen Palm	20	10	10		X		N/A

LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE TRANSPLANTED
- NEW LOCATION OF TRANSPLANTED TREE

REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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DESIGNED BY	C.G.	2-10-2022	DRAWN BY		
CHECKED BY	K.S.	2-10-2022	CHECKED BY		

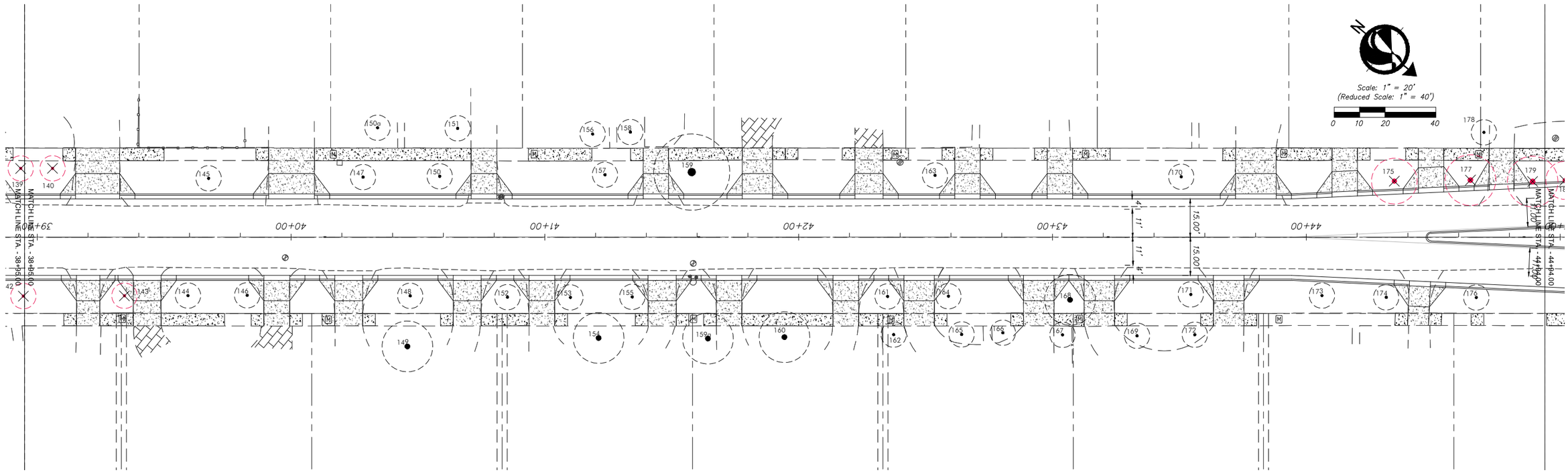
SUPERVISED BY:

MIAMI-DADE
PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

EXISTING TREE DISPOSITION PLAN -FRANJO ROAD - 100% CDs-

PLOTTED BY: KENL SEMER DATE: 12/14/2022 1:51 PM
CREATED: 2022-12-14 - D:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\DSK\ SHEETS.DWG

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER ROAD TO SW 184TH STREET
PROJECT NO. 215615952 SHEET LA-6 OF 35



EXISTING TREE DISPOSITION LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE			DISPOSITION			MITIGATION
			HT.(ft.)	SPD.(ft.)	DBH.(in.)	REMAIN	REMOVE	TRANSPL.	S.F. CANOPY
143	Roystonea regia	Royal Palm	30	10	10		X		79
144	Roystonea regia	Royal Palm	35	10	10	X			
145	Roystonea regia	Royal Palm	30	10	10	X			
146	Roystonea regia	Royal Palm	35	10	10	X			
147	Roystonea regia	Royal Palm	25	10	10	X			
148	Roystonea regia	Royal Palm	35	10	10	X			
149	Bucida buceras	Black Olive	35	20	27	X			
150	Roystonea regia	Royal Palm	35	10	10	X			
150A	Cocos nucifera	Coconut Palm	20	10	10	X			
151	Syagrus romanzoffiana	Queen Palm	15	10	10	X			
152	Roystonea regia	Royal Palm	35	10	10	X			
153	Roystonea regia	Royal Palm	40	10	10	X			
154	Delonix Regia	Royal Poinciana	25	25	20	X			
155	Roystonea regia	Royal Palm	30	10	10	X			
156	Adonidia merrillii	Christmas Palm	12	10	10	X			
157	Roystonea regia	Royal Palm	40	10	10	X			
158	Adonidia merrillii	Christmas Palm	12	10	10	X			
159	Schefflera actinophylla	Umbrella Tree	30	20	25.2	X			
159	Ficus aurea	Strangler Fig	35	25	49.8	X			
160	Bischofia javanica	Bishopwood	30	20	35	X			
161	Roystonea regia	Royal Palm	30	10	10	X			
162	Ficus aurea	Strangler Fig	35	25	49.8	X			
163	Roystonea regia	Royal Palm	25	10	10	X			
164	Roystonea regia	Royal Palm	25	10	10	X			
165	Adonidia merrillii	Christmas Palm	8	10	5	X			
166	Adonidia merrillii	Christmas Palm	6	10	5	X			
167	Adonidia merrillii	Christmas Palm	15	10	Multi	X			
168	Swietenia mahagoni	Mahogany	25	20	22.7	X			
169	Adonidia merrillii	Christmas Palm	7	10	Multi	X			
170	Roystonea regia	Royal Palm	35	10	10	X			
171	Roystonea regia	Royal Palm	30	10	10	X			
172	Adonidia merrillii	Christmas Palm	7	10	Multi	X			
173	Roystonea regia	Royal Palm	30	10	10	X			
174	Roystonea regia	Royal Palm	30	10	10	X			
175	Bucida buceras	Black Olive	20	18	16.7		X		254
176	Roystonea regia	Royal Palm	25	10	10	X			
177	Bucida buceras	Black Olive	20	18	16.7		X		254
178	Cocos nucifera	Coconut Palm	25	10	10	X			
179	Bucida buceras	Black Olive	20	20	18		X		628

LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE TRANSPLANTED
- NEW LOCATION OF TRANSPLANTED TREE

PLOTTED BY: KIEHL SEMLER DATE: 12/14/2022 1:51 PM
CREATED: 2022-12-14 - D:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\CSLA SHEETS.DWG

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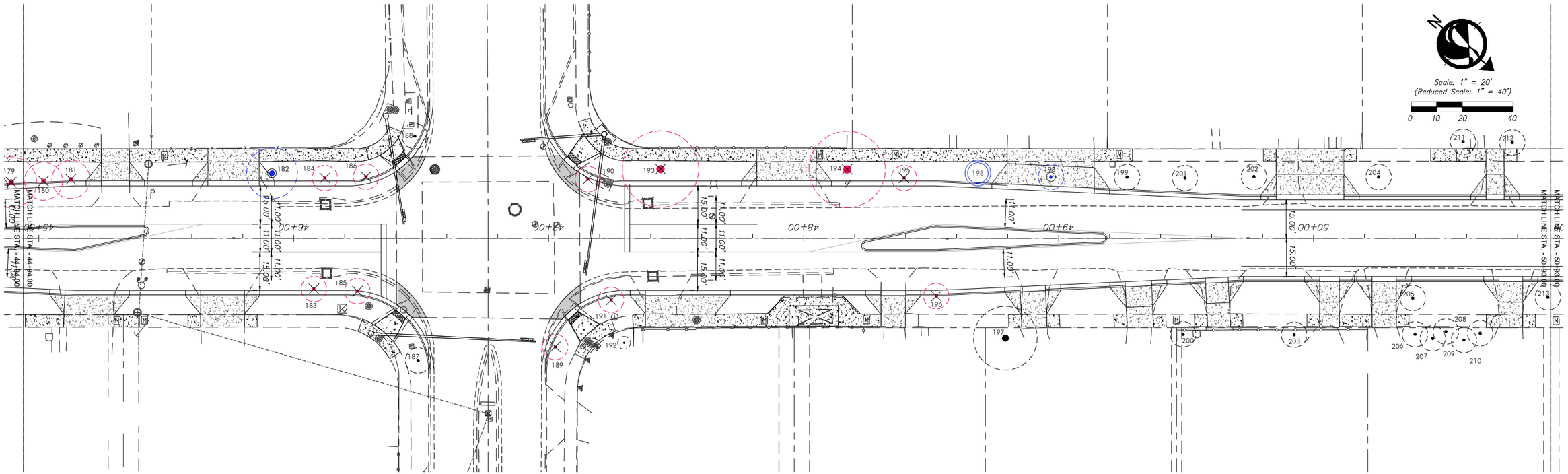
DESIGNED BY	C.G.	2-10-2022	DRAWN BY		
CHECKED BY	K.S.	2-10-2022	CHECKED BY		

SUPERVISED BY:

MIAMI-DADE
PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

EXISTING TREE DISPOSITION PLAN -FRANJO ROAD - 100% CDs-

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER ROAD TO SW 184TH STREET
PROJECT NO. 215615952 SHEET LA-7 OF 35



EXISTING TREE DISPOSITION LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE HT.(ft.)	SIZE SPD.(ft.)	SIZE DBH.(in.)	DISPOSITION REMAIN	DISPOSITION REMOVE	DISPOSITION TRANSPL.	MITIGATION S.F. CANOPY
180	Manilkara zapota	Sapodilla	15	12	8		X		113
181	Swietenia mahagoni	Mahogany	20	15	16.4		X		177
182	Swietenia mahagoni	Mahogany	20	20	10			X	
183	Livistonia chinensis	Chinese Fan Palm	12	10	10		X		79
184	Livistonia chinensis	Chinese Fan Palm	12	10	10		X		79
185	Livistonia chinensis	Chinese Fan Palm	15	10	10		X		79
186	Livistonia chinensis	Chinese Fan Palm	10	10	10		X		79
187	Livistonia chinensis	Chinese Fan Palm	7	10	10	X			
188	Livistonia chinensis	Chinese Fan Palm	12	10	10	X			
189	Livistonia chinensis	Chinese Fan Palm	12	10	10		X		79
190	Livistonia chinensis	Chinese Fan Palm	15	10	10		X		79
191	Livistonia chinensis	Chinese Fan Palm	15	10	10		X		79
192	Conocarpus erectus	Silver Buttonwood	8	4	2	X			
193	Swietenia mahagoni	Mahogany	30	35	16+20+55		X		1924
194	Swietenia mahagoni	Mahogany	30	30	35		X		1414
195	Roystonea regia	Royal Palm	40	10	10		X		79
196	Roystonea regia	Royal Palm	40	10	10		X		79
197	Pithecellobium unguis-cati	Cat's Claw	30	25	25+20	X			
198	Roystonea regia	Royal Palm	35	10	10			X	
199	Roystonea regia	Royal Palm	35	10	10	X			
200	Adonidia merrillii	Christmas Palm	15	10	Multi	X			
201	Roystonea regia	Royal Palm	40	10	10	X			
202	Roystonea regia	Royal Palm	40	10	10	X			
203	Roystonea regia	Royal Palm	35	10	10	X			
204	Roystonea regia	Royal Palm	35	10	10	X			
205	Roystonea regia	Royal Palm	35	10	10	X			
206	Syagrus romanzoffiana	Queen Palm	15	10	10	X			
207	Syagrus romanzoffiana	Queen Palm	15	10	10	X			
208	Syagrus romanzoffiana	Queen Palm	15	10	10	X			
209	Syagrus romanzoffiana	Queen Palm	15	10	10	X			
210	Syagrus romanzoffiana	Queen Palm	15	10	10	X			
211	Adonidia merrillii	Christmas Palm	12	10	Multi	X			
212	Adonidia merrillii	Christmas Palm	12	10	Multi	X			
213	Roystonea regia	Royal Palm	35	10	10	X			

LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE TRANSPLANTED
- NEW LOCATION OF TRANSPLANTED TREE

PLOTTED BY: KEIKL SEMLER DATE: 12/14/2022 1:51 PM
CREATED: 2022-12-14 - D:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\CSLA SHEETS.DWG

REVISIONS

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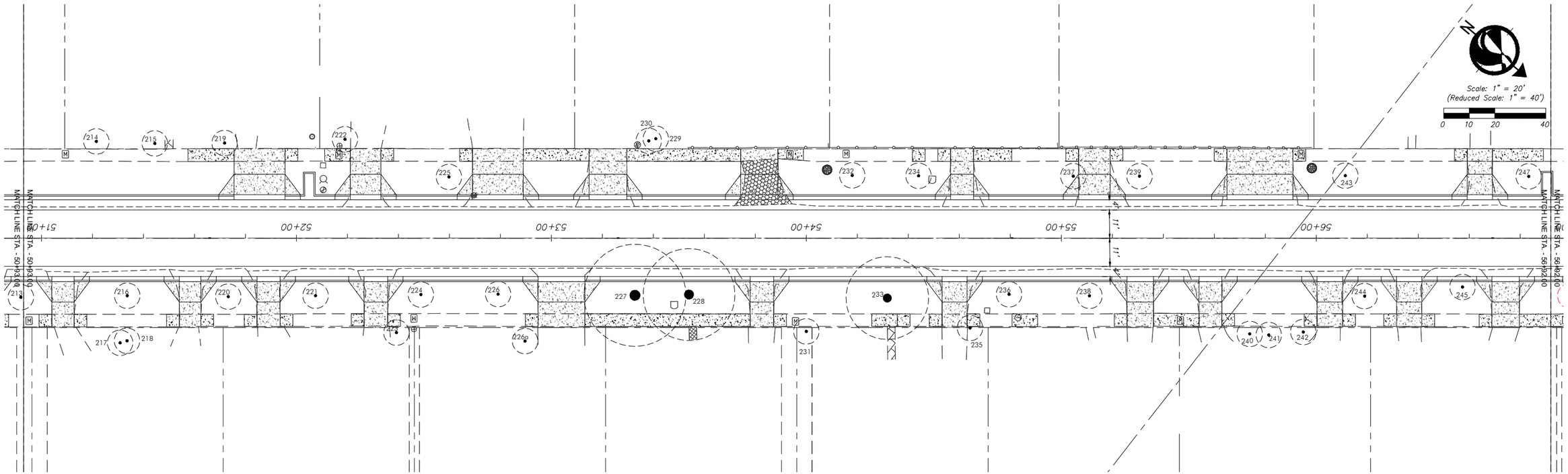
DESIGNED BY	C.G.	2-10-2022	DRAWN BY		
CHECKED BY	K.S.	2-10-2022	CHECKED BY		

SUPERVISED BY:

MIAMI-DADE
PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

EXISTING TREE DISPOSITION PLAN -FRANJO ROAD - 100% CDs-

MIAMI–DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER ROAD TO SW 184TH STREET
PROJECT NO. 215615952 SHEET LA-8 OF 35



Scale: 1" = 20'
(Reduced Scale: 1" = 40')
0 10 20 40

EXISTING TREE DISPOSITION LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE HT.(Ft.)	SIZE SPD.(Ft.)	SIZE DBH.(in.)	DISPOSITION REMAIN	DISPOSITION REMOVE	DISPOSITION TRANSPL.	MITIGATION S.F. CANOPY
214	Cocos nucifera	Coconut Palm	12	10	10	X			
215	Roystonea regia	Royal Palm	30	10	10	X			
216	Cocos nucifera	Coconut Palm	20	10	10	X			
217	Cocos nucifera	Coconut Palm	15	10	10	X			
218	Cocos nucifera	Coconut Palm	15	10	10	X			
219	Adonidia merrillii	Christmas Palm	20	10	10	X			
220	Roystonea regia	Royal Palm	32	10	10	X			
221	Roystonea regia	Royal Palm	35	10	10	X			
222	Adonidia merrillii	Christmas Palm	40	10	10	X			
223	Cocos nucifera	Coconut Palm	15	10	10	X			
224	Cocos nucifera	Coconut Palm	35	10	10	X			
225	Roystonea regia	Royal Palm	40	10	10	X			
226	Roystonea regia	Royal Palm	30	10	10	X			
226A	Cocos nucifera	Coconut Palm	12	10	10	X			
227	Bucida buceras	Black Olive	30	40	16.7	X			
228	Bucida buceras	Black Olive	35	40	10	X			
229	Ptychosperma elegans	Solitaire Palm	10	10	10	X			
230	Bucida buceras	Black Olive	20	18	26	X			
231	Cocos nucifera	Coconut Palm	15	10	10	X			
232	Roystonea regia	Royal Palm	30	10	10	X			
233	Bucida buceras	Black Olive	28	36	25	X			
234	Roystonea regia	Royal Palm	30	10	10	X			
235	Cocos nucifera	Coconut Palm	15	10	10	X			
236	Roystonea regia	Royal Palm	35	10	10	X			
237	Roystonea regia	Royal Palm	35	10	10	X			
238	Roystonea regia	Royal Palm	35	10	10	X			
239	Roystonea regia	Royal Palm	35	10	10	X			
240	Adonidia merrillii	Christmas Palm	12	10	10	X			
241	Adonidia merrillii	Christmas Palm	12	10	10	X			
242	Dreitzia nicolai	White Bird of Paradise	12	10	10	X			
243	Roystonea regia	Royal Palm	35	10	10	X			
244	Roystonea regia	Royal Palm	40	10	10	X			
245	Roystonea regia	Royal Palm	40	10	10	X			
246	Roystonea regia	Royal Palm	30	10	10		X		79
247	Roystonea regia	Royal Palm	35	10	10	X			

LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE TRANSPLANTED
- NEW LOCATION OF TRANSPLANTED TREE

REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CHECKED BY	K.S.	2-10-2022	CHECKED BY		

SUPERVISED BY:

MIAMI–DADE
PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

EXISTING TREE DISPOSITION PLAN -FRANJO ROAD - 100% CDs-

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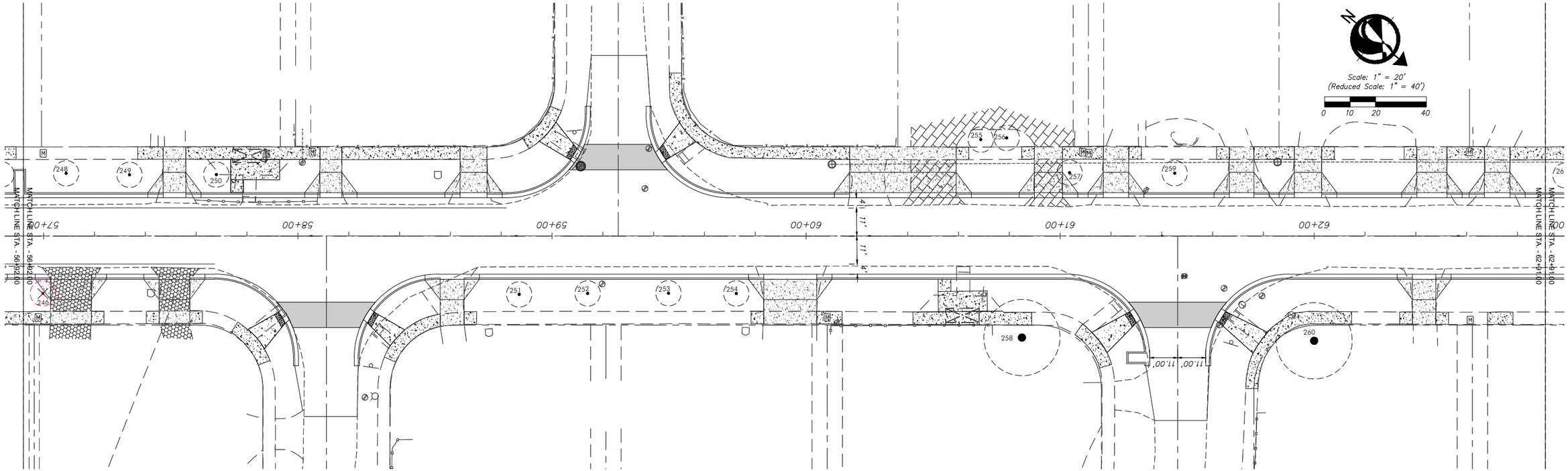
MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER ROAD TO SW 184TH STREET
PROJECT NO. 215615952 SHEET LA-9 OF 35



EXISTING TREE DISPOSITION LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE			DISPOSITION			MITIGATION
			HT.(ft.)	SPD.(ft	DBH.(in.)	REMAIN	REMOVE	TRANSPL.	S.F. CANOPY
248	Roystonea regia	Royal Palm	30	10	10	X			
249	Roystonea regia	Royal Palm	30	10	10	X			
250	Roystonea regia	Royal Palm	30	10	10	X			
251	Roystonea regia	Royal Palm	35	10	10	X			
252	Roystonea regia	Royal Palm	35	10	10	X			
253	Roystonea regia	Royal Palm	35	10	10	X			
254	Roystonea regia	Royal Palm	30	10	10	X			
255	Phoenix canariensis	Canary Island Date Palm	12	10	10	X			
256	Phoenix canariensis	Canary Island Date Palm	12	10	10	X			
257	Roystonea regia	Royal Palm	30	10	10	X			
258	Roystonea regia	Royal Palm	35	10	10	X			
259	Delonix Regia	Royal Ponciana	20	30	31	X			
260	Ficus aurea	Strangler Fig	30	30	50	X			

LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE TRANSPLANTED
- NEW LOCATION OF TRANSPLANTED TREE

REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CHECKED BY	K.S.	2-10-2022	CHECKED BY		

SUPERVISED BY:

MIAMI-DADE
PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

EXISTING TREE DISPOSITION PLAN -FRANJO ROAD - 100% CDs-

PLOTTED BY: KEHL SEMLER DATE: 12/14/2022 1:52 PM
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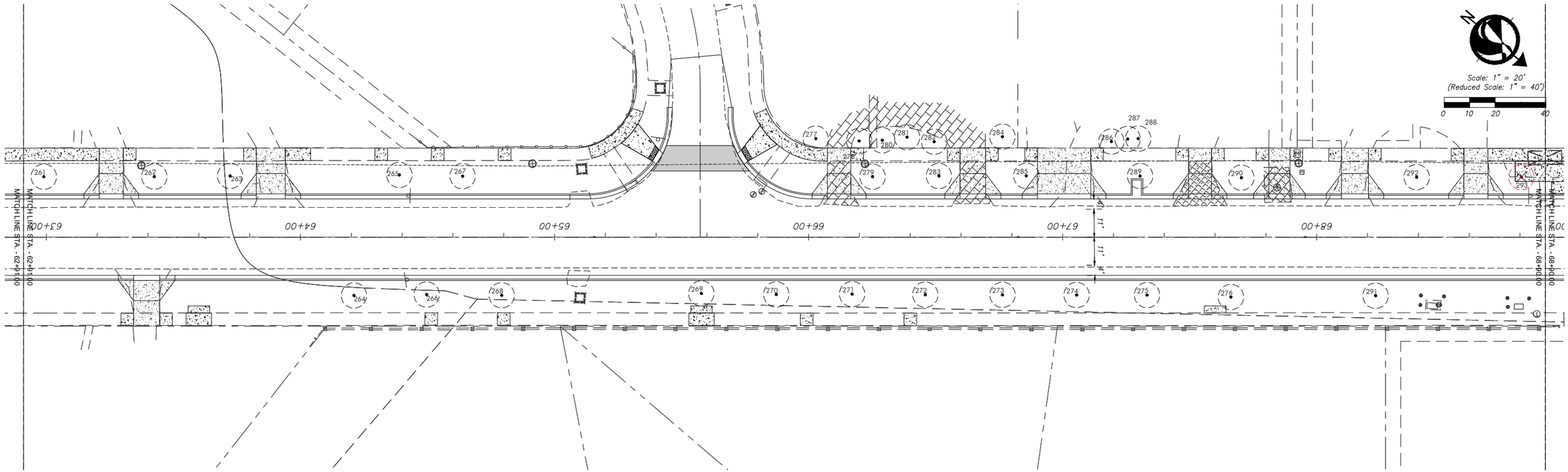
MIAMI–DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER ROAD TO SW 184TH STREET
PROJECT NO. 215615952 SHEET LA-10 OF 35



EXISTING TREE DISPOSITION LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE HT.(ft.)	SIZE SPD.(ft.)	SIZE DBH.(in.)	DISPOSITION REMAIN	DISPOSITION REMOVE	DISPOSITION TRANSPL.	MITIGATION S.F. CANOPY
261	Roystonea regia	Royal Palm	40	10	10	X			
262	Roystonea regia	Royal Palm	35	10	10	X			
263	Roystonea regia	Royal Palm	35	10	10	X			
264	Roystonea regia	Royal Palm	35	10	10	X			
265	Roystonea regia	Royal Palm	35	10	10	X			
266	Roystonea regia	Royal Palm	40	10	10	X			
267	Roystonea regia	Royal Palm	35	10	10	X			
268	Roystonea regia	Royal Palm	35	10	10	X			
269	Roystonea regia	Royal Palm	35	10	10	X			
270	Roystonea regia	Royal Palm	35	10	10	X			
271	Roystonea regia	Royal Palm	35	10	10	X			
272	Roystonea regia	Royal Palm	35	10	10	X			
273	Roystonea regia	Royal Palm	35	10	10	X			
274	Roystonea regia	Royal Palm	35	10	10	X			
275	Roystonea regia	Royal Palm	35	10	10	X			
276	Roystonea regia	Royal Palm	35	10	10	X			
277	Syagrus romanzoffiana	Queen Palm	20	10	10	X			
278	Phoenix roebelenii	Pigmy Date Palm	15	10	10	X			
279	Roystonea regia	Royal Palm	35	10	10	X			
280	Phoenix roebelenii	Pigmy Date Palm	35	10	10	X			
281	Veitchia merrillii	Christmas Palm	18	12	double	X			
282	Phoenix roebelenii	Pigmy Date Palm	15	10	Multi	X			
283	Roystonea regia	Royal Palm	35	10	10	X			
284	Syagrus romanzoffiana	Queen Palm	25	10	10	X			
285	Roystonea regia	Royal Palm	25	10	10	X			
286	Veitchia merrillii	Christmas Palm	15	10	10	X			
287	Dypsis lutescens	Areca Palm	12	10	10	X			
288	Veitchia merrillii	Christmas Palm	15	10	10	X			
289	Roystonea regia	Royal Palm	25	10	10	X			
290	Roystonea regia	Royal Palm	25	10	10	X			
291	Roystonea regia	Royal Palm	30	10	10	X			
292	Roystonea regia	Royal Palm	30	10	10	X			
293	Roystonea regia	Royal Palm	30	10	10		X		79

LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO BE TRANSPLANTED
- NEW LOCATION OF TRANSPLANTED TREE

PLOTTED BY: KENL SEMLER DATE: 12/14/2022 1:52 PM
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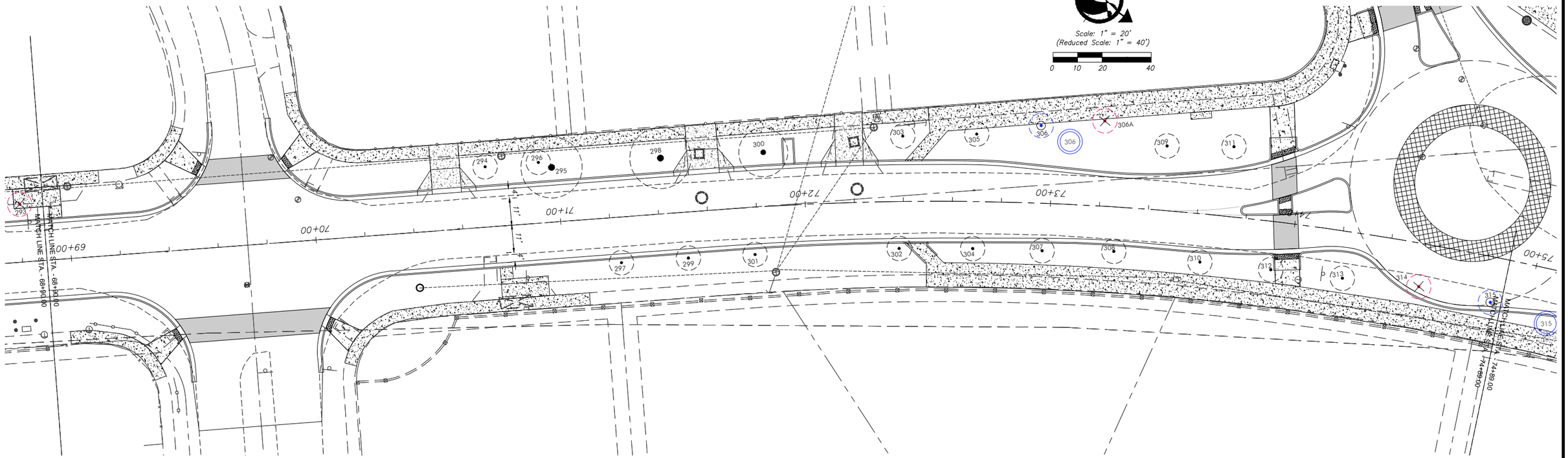
CHECKED BY	K.S.	2-10-2022	CHECKED BY		

SUPERVISED BY:

MIAMI–DADE
PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

EXISTING TREE DISPOSITION PLAN -FRANJO ROAD - 100% CDs-

MIAMI–DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER ROAD TO SW 184TH STREET
PROJECT NO. 215615952 SHEET LA-11 OF 35



EXISTING TREE DISPOSITION LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE HT.(ft.)	SIZE SPD.(ft)	SIZE DBH.(in.)	DISPOSITION REMAIN	DISPOSITION REMOVE	DISPOSITION TRANSPL.	MITIGATION S.F. CANOPY
294	Roystonea regia	Royal Palm	40	10	10	X			
295	Swietenia mahagoni	Mahogany	35	35	30	X			
296	Sabal palmetto	Sabal Palm	35	10	10	X			
297	Roystonea regia	Royal Palm	35	10	10	X			
298	Swietenia mahagoni	Mahogany	25	25	47	X			
299	Roystonea regia	Royal Palm	35	10	10	X			
300	Swietenia mahagoni	Mahogany	20	20	28	X			
301	Roystonea regia	Royal Palm	30	10	10	X			
302	Roystonea regia	Royal Palm	35	10	10	X			
303	Sabal palmetto	Sabal Palm	15	10	10	X			
304	Roystonea regia	Royal Palm	35	10	10	X			
305	Roystonea regia	Royal Palm	30	10	10	X			
306	Roystonea regia	Royal Palm	30	10	10			X	
306A	Sabal palmetto/Schefflera spp.	Sabal/Umbrella Tree	20	12	10		X		113
307	Roystonea regia	Royal Palm	30	10	10	X			
308	Roystonea regia	Royal Palm	35	10	10	X			
309	Roystonea regia	Royal Palm	30	10	10	X			
310	Roystonea regia	Royal Palm	30	10	10	X			
312	Roystonea regia	Royal Palm	30	10	10	X			
313	Roystonea regia	Royal Palm	25	10	10	X			
314	Roystonea regia	Royal Palm	30	10	10		X		79
315	Roystonea regia	Royal Palm	25	10	10			X	

LEGEND

- # — EXISTING TREE TO REMAIN
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- # — EXISTING TREE TO BE TRANSPLANTED
- # — NEW LOCATION OF TRANSPLANTED TREE

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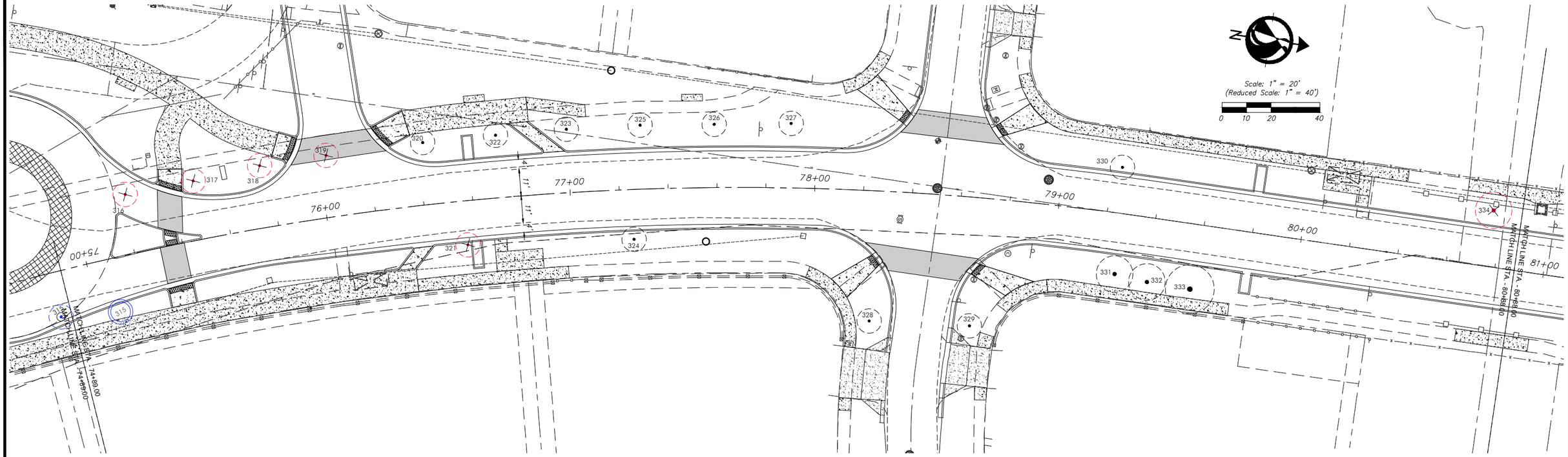

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KEY	BOTANICAL NAME	COMMON NAME	SIZE HT.(ft.)	SIZE SPD.(ft	SIZE DBH.(in.)	DISPOSITION REMAIN	DISPOSITION REMOVE	DISPOSITION TRANSPL.	MITIGATION S.F. CANOPY
316	Roystonea regia	Royal Palm	30	10	10		X		79
317	Roystonea regia	Royal Palm	30	10	10		X		79
318	Roystonea regia	Royal Palm	30	10	10		X		79
319	Roystonea regia	Royal Palm	25	10	10		X		79
320	Roystonea regia	Royal Palm	35	10	10	X			
321	Roystonea regia	Royal Palm	35	10	10		X		79
322	Roystonea regia	Royal Palm	25	10	10	X			
323	Roystonea regia	Royal Palm	40	10	10	X			
324	Roystonea regia	Royal Palm	35	10	10	X			
325	Roystonea regia	Royal Palm	35	10	10	X			
326	Roystonea regia	Royal Palm	25	10	10	X			
327	Roystonea regia	Royal Palm	25	10	10	X			
328	Phoenix roebelenii	Pygmy Date Palm	12	10	Multi	X			
329	Phoenix roebelenii	Pygmy Date Palm	12	10	Multi	X			
330	Roystonea regia	Royal Palm	35	10	10	X			
331	Callistemon viminales	Bottle Brush	15	10	15	X			
332	Callistemon viminales	Bottle Brush	15	15	38	X			
333	Callistemon viminales	Bottle Brush	15	20	38.8	X			
334	Bauhinia blakeana	Hong Kong Orchid	20	15	Multi		X		N/A

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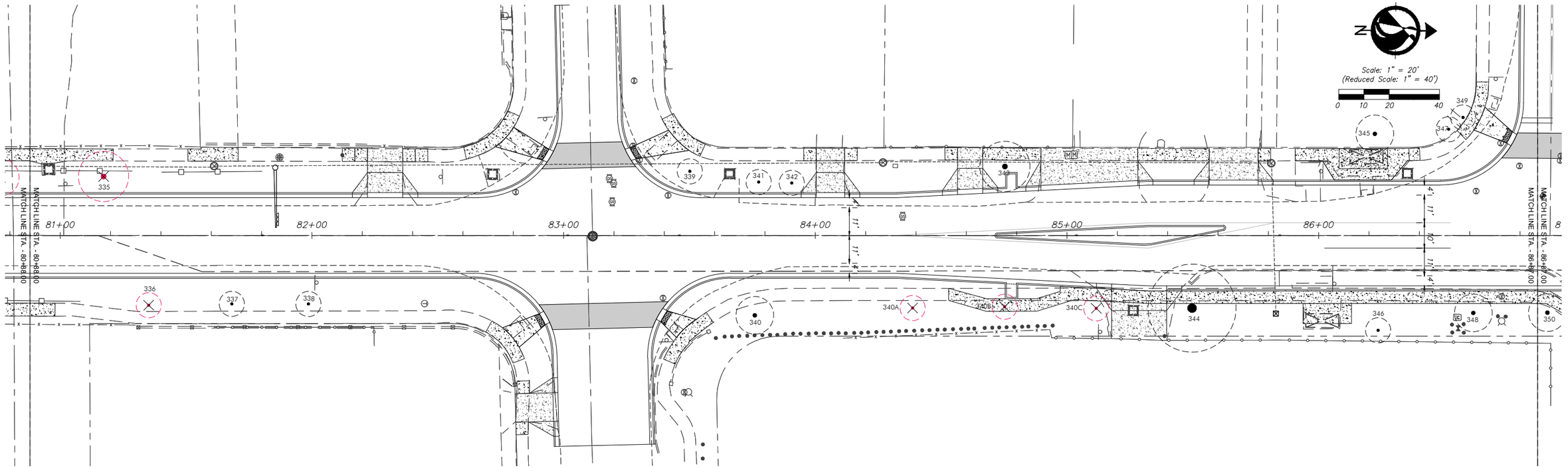

EXISTING TREE DISPOSITION LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE HT.(ft.)	SIZE SPD.(ft	SIZE DBH.(in.)	DISPOSITION REMAIN	DISPOSITION REMOVE	DISPOSITION TRANSPL.	MITIGATION S.F. CANOPY
335	Bauhinia blakeana	Hong Kong Orchid	20	20	Multi		X		N/A
336	DEAD						X		N/A
337	Roystonea regia	Royal Palm	35	10	10	X			
338	Roystonea regia	Royal Palm	40	10	10	X			
339	Phoenix roebelenii	Pygmy Date Palm	5	10	10	X			
340	Quercus virginiana	Live Oak	15	15	13	X			
340a	Quercus laurifolia	Laurel Oak	10	5	3	X			
340b	Quercus laurifolia	Laurel Oak	10	3	2	X			
340c	Quercus laurifolia	Laurel Oak	8	3	2	X			
341	Phoenix roebelenii	Pygmy Date Palm	5	10	10	X			
342	Phoenix roebelenii	Pygmy Date Palm	5	10	10	X			
343	Ficus aurea	Strangler Fig	20	20	42	X			
344	Quercus virginiana	Live Oak	24	30	14	X			
345	Tabebuia heptaphylla	Pink Trumpet Tree	15	20	14+13	X			
346	Tabebuia caraiba	Golden Trumpet Tree	15	6	13	X			
347	Cocos nucifera	Coconut Palm	20	10	10	X			
348	Quercus virginiana	Live Oak	25	25	13.8	X			
349	Cocos nucifera	Coconut Palm	20	15	10	X			

LEGEND

- EXISTING TREE TO REMAIN
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EXISTING TREE DISPOSITION PLAN -FRANJO ROAD - 100% CDs-

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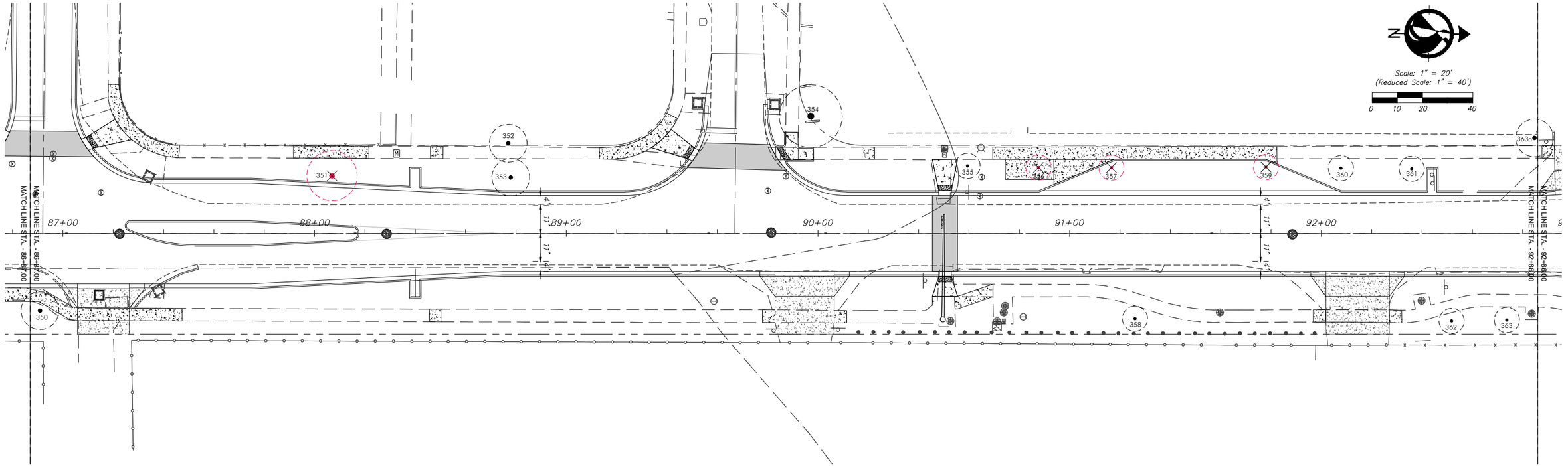

EXISTING TREE DISPOSITION LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE			DISPOSITION			MITIGATION
			HT.(ft.)	SPD.(ft)	DBH.(in.)	REMAIN	REMOVE	TRANSPL.	S.F. CANOPY
350	Quercus virginiana	Live Oak	25	25	15	X			
351	Bursera simaruba	Gumbo Limbo	20	20	Multi		X		314
352	Bursera simaruba	Gumbo Limbo	25	15	15+13	X			
353	Bursera simaruba	Gumbo Limbo	25	15	Multi	X			
354	Bucida buceras	Black Olive	35	25	24.3	X			
355	Roystonea regia	Royal Palm	20	10	10	X			
356	Roystonea regia	Royal Palm	30	10	10		X		79
357	Roystonea regia	Royal Palm	35	10	10		X		79
358	Roystonea regia	Royal Palm	25	10	10	X			
359	Roystonea regia	Royal Palm	40	10	10		X		79
360	Roystonea regia	Royal Palm	25	10	10	X			
361	Roystonea regia	Royal Palm	35	10	10	X			
362	Roystonea regia	Royal Palm	20	10	10	X			
363	Roystonea regia	Royal Palm	35	10	10	X			
363a	Bucida buceras	Black Olive	25	20	18.8	X			

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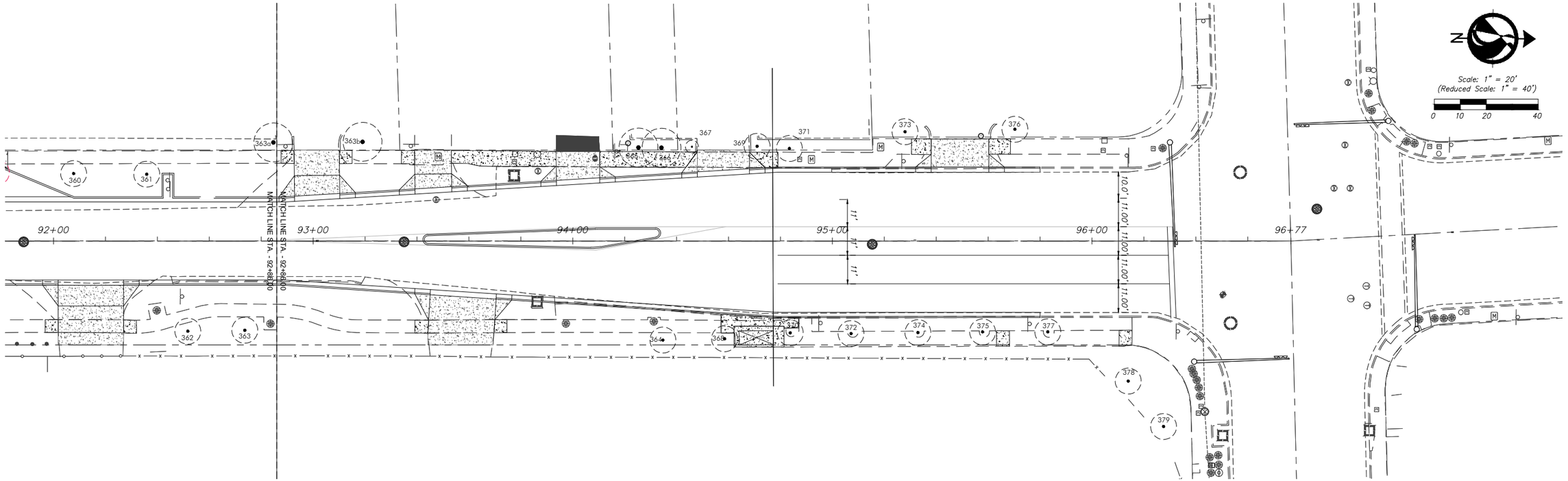

EXISTING TREE DISPOSITION LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE			DISPOSITION			MITIGATION
			HT.(ft.)	SPD.(ft	DBH.(in.)	REMAIN	REMOVE	TRANSPL.	S.F. CANOPY
363b	Bucida buceras	Black Olive	30	25	22.8	X			
364	Roystonea regia	Royal Palm	30	10	10	X			
365	Quercus virginiana	Live Oak	15	15	11	X			
366	Quercus virginiana	Live Oak	15	15	10	X			
367	Quercus virginiana	Live Oak	15	8	3+2	X			
368	Roystonea regia	Royal Palm	35	10	10	X			
369	Quercus virginiana	Live Oak	15	8	5.5	X			
370	Roystonea regia	Royal Palm	22	10	10	X			
371	Quercus virginiana	Live Oak	15	10	6	X			
372	Roystonea regia	Royal Palm	20	10	10	X			
373	Ptychosperma elegans	Solitaire Palm	15	10	Multi	X			
374	Roystonea regia	Royal Palm	35	10	10	X			
375	Roystonea regia	Royal Palm	30	10	10	X			
376	Ptychosperma elegans	Solitaire Palm	15	10	Multi	X			
377	Roystonea regia	Royal Palm	20	10	10	X			
378	Phoenix canariensis	Canary Island Date Palm	16	10	10	X			
379	Phoenix canariensis	Canary Island Date Palm	16	10	10	X			

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EXISTING TREE DISPOSITION PLAN -FRANJO ROAD - 100% CDs-

TOTAL CANOPY S.F. TO BE REPLACED			15,099
*Mitigation provided (see plant list for species):			
MITIGATION TYPE	QTY.	MITIGATION EA. (S.F.)	TOTAL MITIGATION (S.F.)
Shade Tree 1	201	500	100500
Shade Tree 2	107	300	32100
Palm Tree 1	0	300	0
Palm Tree 2	187	100	18700
Small Tree	0	200	0
GRAND TOTAL S.F. MITIGATION CANOPY PROVIDED*			151300

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MITIGATION CALCULATIONS
-FRANJO ROAD - 100% CDs-

TREE TRANSPLANTING SPECIFICATIONS

1.01 Root Pruning, Watering Before Transplanting

A. Prior to root pruning and before excavating holes for transplanted trees, check with all local utilities to locate existing underground utilities. If any unknown utilities or sprinkler pipes are in advertently broken, do not cover them up. Immediately notify the utility and/or the Client, and take all necessary steps to repair the break.

B. Root prune trees a minimum of eight (8) weeks prior to moving them. It is not necessary to root prune palms prior to transplanting unless specifically instructed to do so by the Landscape Architect. Prior to root pruning, thoroughly water the root zone with at least 2"-3" of water.

C. Root pruning shall be accomplished by digging a trench two-thirds (2/3) of the way around the tree at a minimum of twenty four (24) inches deep. Root prune only with a mechanical root-pruning saw or a trencher with a maximum trench width of 8 inches. This trench shall form a rootball of the minimum following sizes:

Up to 5" caliper	5' diameter
6"-8" caliper	6'-7' diameter
9"-12" caliper	9'-10' diameter
Over 12" caliper	12' diameter

D. All exposed roots shall be cut off smoothly, with sharp instruments. Backfill trenches with soil consisting of 30% silica sand and 70% mulch. Water them thoroughly immediately after root pruning, and once weekly during the root regeneration period. Every 2 weeks add a soluble fertilizer that has a 20.20.20 analysis at manufacturer's recommended rate, to the watering mix.

E. It may be necessary to remove curbing and/or paving to complete the root pruning operation. Where this is required, the Contractor shall first cut cleanly with a concrete saw, any section of curb or pavement before cutting the roots. This material shall be removed from the site by the Contractor and the area of pavement cut and removed by the root pruning shall be filled to flush with adjacent pavement.

1.02 Top Pruning and Thinning

A. The amount of general pruning and thinning shall be limited to the minimum necessary to remove dead or injured twigs or branches and to compensate for the loss of roots as a result of transplanting operations. Approximately 1/3 of the mass of the canopy shall be removed unless otherwise instructed by the Landscape Architect. Pruning and thinning shall be done in such a manner as not to change the natural habit or shape of a plant. For very large trees that must be transported on public R.O.W.'s or where obstacles require it, additional pruning may be allowed at time of transport; cut back trees to the maximum size which can be transported after limbs are tied in as much as possible. The Landscape Architect shall be contacted prior to performing any major pruning or thinning.

1.03 Bracing and Guying of Trees After Root Pruning

A. Bracing and Guying shall be provided to assure the trees' stability during the root regeneration period, if required by the Landscape Architect.

1.04 Balling and Burlapping

A. Plant material which is in a soil of a loose texture, which does not readily adhere to the root system, especially in the case of large plants or trees, shall have the rootball wrapped in burlap and then wire, if directed by the Landscape Architect.

1.05 Transplanting Plant Material

A. Movement of plants on public R.O.W.'s shall comply with all ordinances, codes and safety requirements, etc.

B. Transport materials on vehicles large enough to allow plants to not be crowded and damaged. Plants shall be covered to prevent wind damage during transit.

C. Protect plant material during transporting to prevent damage to the root system and desiccation of leaves. Trees shall be protected by tying in the branches and covering all exposed branches as necessary. Do not bend or bind-tie plant material in such a manner as to damage bark, break branches or alter the natural shape.

D. The Contractor shall exercise care in handling, loading, unloading, storing, and transporting material to prevent damage. The Contractor shall assume full responsibility for protection and safekeeping of materials stored.

E. Transplanting must be done within 24 hours after being dug. Store plants in shade and keep the root ball and canopy moist.

1.06 Installation

A. Excavation of Holes: Plant holes shall be roughly cylindrical in shape with sides approximately vertical. The depth of the hole shall be equal to the rootball depth plus 12" unless further depth is required to provide adequate drainage. The diameter of the hole shall be a minimum of 24" larger than the rootball diameter.

B. Setting of Plants

1) Plant material shall be planted at their natural and original planting level prior to their placement on this project or job. When lowered into the hole, the plants shall rest on the prepared hole bottom such that the surface roots at the top of the rootball are level or slightly above the level of the top of the hole. Create a saucer, approximately 6" deep to help hold water. The practice of plunging, burying or planting and plant material such that the surface roots at the top of the rootball are below the level of the surrounding final grade will not be permitted unless it is indicated otherwise in these specifications. The plants shall be set straight or plumb or normal to the relationship of their growth prior to transplanting. The Landscape Architect reserves the right to realign any plant material after it has been set.

C. Backfilling

1) Use planting soil consisting of 40% silica sand, 40% muck, and 20% well-rotted compost derived from yard wastes.

2) Backfill the bottom two-thirds of the planting hole and firmly tamp and settle by watering as backfilling progresses. After having tamped and settled the bottom two-thirds of the hole, thoroughly puddle with water and fill remaining one-third of the hole with planting soil, tamping and watering to eliminate air pockets.

3) Add Diehard" transplant innoculant supplied by Horticultural Alliance, Inc. (800-628-6373) or equal. Mix into top 8-10 inches of planting hole, making sure it is contact with the root ball. Add at a rate of one (1) 8oz. bag per 2 inches of trunk caliper.

1.07 Watering Transplanted Trees:

A. Once trees have been relocated and well-watered in during the transplanting, provide water for a period of 60 days after transplanting.

B. Rootball Watering: Maintain a soil moisture in the root zone at an optimum level for growth, by deep watering of the entire rootball area according to the following schedule:

When	Frequency	Amount
first week	once daily	3" per tree
second week	every other day	2" per tree
following month	twice a week	1" per tree
last 2 weeks	once per week	1" per tree

C. In addition to the rootball watering, the canopy of the large shade trees (over 12" caliper) shall be watered with an automatic irrigation system spraying the canopy. Spray heads shall be installed near the top of the canopy and spaced so that the entire canopy shall be sprayed. This system shall remain in place until directed by the Landscape Architect to be removed.

D. If there is no source for water available at the project, such as a hose bib(s) or fire hydrants(s) if approved for use, then the Contractor shall be responsible for supplying water by means of a truck or tank. It is the Contractor's responsibility to pay any fees for water use.

1.08 Mulching of Plant Saucer

A. Spread 3" thick layer of shredded Eucalyptus or Melaleuca mulch over entire area of the rootball.

1.09 Application of Fertilizer

A. At time of watering root-pruned trees prior to transplanting, drench rootball once per week during the course of watering with a soluble fertilizer that has a 20.20.20 analysis at manufacturer's recommended rate.

B. Three (3) weeks after transplanting, and after mulching, apply on the surface, evenly spread over the area of the entire rootball, FEC (Florida East Coast Fertilizer Co) #5231 (12-6-8) or equal at the rate of one (1) pound per inch of trunk diameter.

1.10 Staking Trees

A. Stake all trees and palms at the new site with new timbers with a minimum 2" x 4" dimension as per the details enclosed, or in the case of obstacle, in another manner which will support the trees.

1.11 Clean-Up

A. Disposal of Waste: All waste and other objectionable material created through planting operations and landscape construction shall be removed completely on a daily basis from the job or as directed by the Landscape Architect. Any paved areas, including curbs and sidewalks which have been strewn with soil, sod waste, fertilizer or other waste shall be thoroughly swept. The Client is not required to supply areas or facilities for storage or removal of waste on-site.

B. The Contractor shall remove and dispose of stakes and battens and untie any tied-up canopies when it is determined by the Landscape Architect that sufficient time has elapsed for the plants to root stabilizing the plant. This shall be done even if the project has been completed and given final acceptance.

C. Backfilling shall be done immediately after tree removal, or suitable barricades shall be provided to prevent injuries. The Contractor shall backfill holes with clean fill to a level flush with adjacent grade.

1.12 Maintenance of Traffic

A. During all transplanting operations, the Contractor is responsible to maintain the safe flow of vehicular and pedestrian traffic around hazardous areas. The Contractor shall provide barricades, cones, signal boards, etc. as necessary to adequately warn traffic and maintain flow of traffic around or through construction zones. Work shall be performed in such a manner that minimizes the amount of time traffic is impeded by construction activities. Coordinate with Landscape Architect.

1.13 Guarantee and Replacement

A. Plant material which is on the site and scheduled to be transplanted is not covered by the guarantee, except in the case of Contractor's negligence or work that has been done in an unworkmanlike manner. If it is determined by the Landscape Architect that the Contractor's negligence or unworkmanlike operations has severely damaged or poses a threat to the health of material to be transplanted or already transplanted, then the Contractor shall be required to replace the tree at a size equal to the transplanted tree, at his cost, and water it as per 1.07.

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CHECKED BY	K.S.	2-10-2022	CHECKED BY		

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MIAMI–DADE

PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT
HIGHWAY DIVISION
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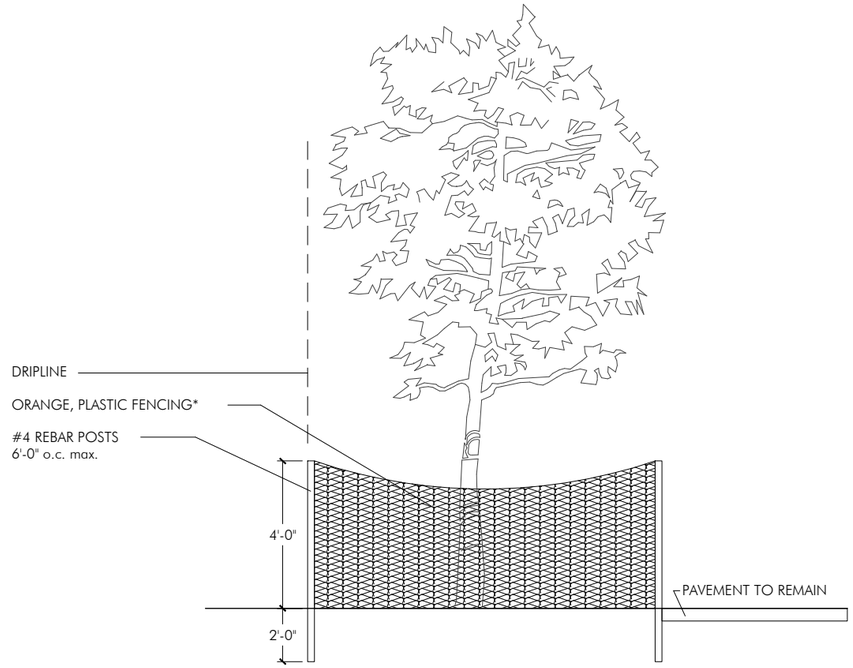
MIAMI, FLORIDA 33128

TREE TRANSPLANT SPECS
-FRANJO ROAD - 100% CDs-



*LIMITS OF TREE PROPECTION ARE TO BE ESTABLISHED BASED ON ANSI A300 ROOT MANAGEMENT STANDARDS. AS A GENERAL RULE THE TREE PROTECTION ZONE MUST EXTEND 10" PER 1" OF TREE DBH.
-PLACE ORANGE, PLASTIC FENCING (BY TENSAR OR OTHER APPROVED EQUAL) AROUND INDIVIDUAL TREES AND TREE CLUMPS TO REMAIN ON SITE IN ANY AREAS WITHIN THE LIMITS OF CONSTRUCTION. BARRIER SHALL BE MAINTAINED IN AN UPRIGHT POSITION AT ALL TIMES.

TREE PROTECTION DETAIL

N.T.S.

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TREE PROTECTION DETAIL
-FRANJO ROAD - 100% CDs-

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PLANT LIST

TREES

KEY	PLANT NAME	QTY.	UT.	SIZE
BUAR	Bulnesia arborea ...Verawood	25	ea.	12' tall x 5' spread, 2 1/2" cal., 4' CT min
BUSI	Bursera simaruba ...Gumbo Limbo	30	ea.	12' tall x 5' spread, 2 1/2" cal., 4' CT min
CESP	Ceiba speciosa ...Silf Floss Tree	1	ea.	12' tall x 5' spread, 2 1/2" cal., 4' CT min
COES	Conocarpus erectus "Sericeus" ...Silver Buttonwood	18	ea.	12' tall x 5' spread, 2 1/2" cal., 4' CT min
ILCA	Ilex cassine ...Dahoon Holly	73	ea.	12' tall x 5' spread, 2 1/2" cal., 4' CT min
LAIN	Lagerstroemia indica "Muscogee" ...Crepe Myrtle	20	ea.	12' tall x 5' spread, 2 1/2" cal., 4' CT min, Purple Flowers
LYLA	Lysiloma latisiliquum ...Wild Tamarind	79	ea.	12' tall x 5' spread, 2 1/2" cal., 4' CT min
QUVI	Quercus virginiana ...Live Oak	68	ea.	12' tall x 5' spread, 2 1/2" cal., 4' CT min

PALMS

KEY	PLANT NAME	QTY.	UT.	SIZE
PSSA	Pseudophoenix sargentii ...Buccaneer Palm	27	ea.	4' CW
SAPA	Sabal palmetto ...Sabal Palm	79	ea.	22' tall OA, smooth trunks, hurricane cut
THRA	Thrinax radiata ...Thatch Palm	86	ea.	7' tall OA

SHRUBS AND GROUNDCOVERS

KEY	PLANT NAME	QTY.	UT.	SIZE
AEBL	Aechmea blanchetiana "Orange Form" ...Orange Bromeliad	60	ea.	24"x18", install 24" o.c.
CHIH	Chrysobalanus icaco "Horizontalis" ...Horizontal Cocoplum	1943	ea.	12"x18", install 24" o.c.
FIGI	Ficus microcarpa "Green Island" ...Green Island Ficus	2688	ea.	18"x18", install 24" o.c.
LADE	Lantana depressa ...Pineland Lantana	152	ea.	18"x18", install 18" o.c.
LOCH	Loropetalum chinensis "Rubrum" ...Fringeflower	486	ea.	18"x18", install 24" o.c.
MUCA	Muhlenbergia cappilaris ...Muhly Grass	2653	ea.	3 gal cans, full, install 24" o.c.
RHIN	Rhaphiolepis indica ...Indian Hawthorne	1115	ea.	18"x18", install 24" o.c.
ZAPU	Zamia pumila ...Coontie	1265	ea.	18"x18", install 24" o.c.

MISCELLANEOUS

sod	St. Augustine "Citrablue"	as req.	s.f.	solid sod, patch as required
	Planting Soil 70% Silica Sand 20% Everglades Muck 10% Shredded Pinebark	as req.	c.y.	excavate and backfill 12" in all shrub beds
	Shredded Melaleuca Mulch	as req.	c.y.	2" layer in all shrub beds

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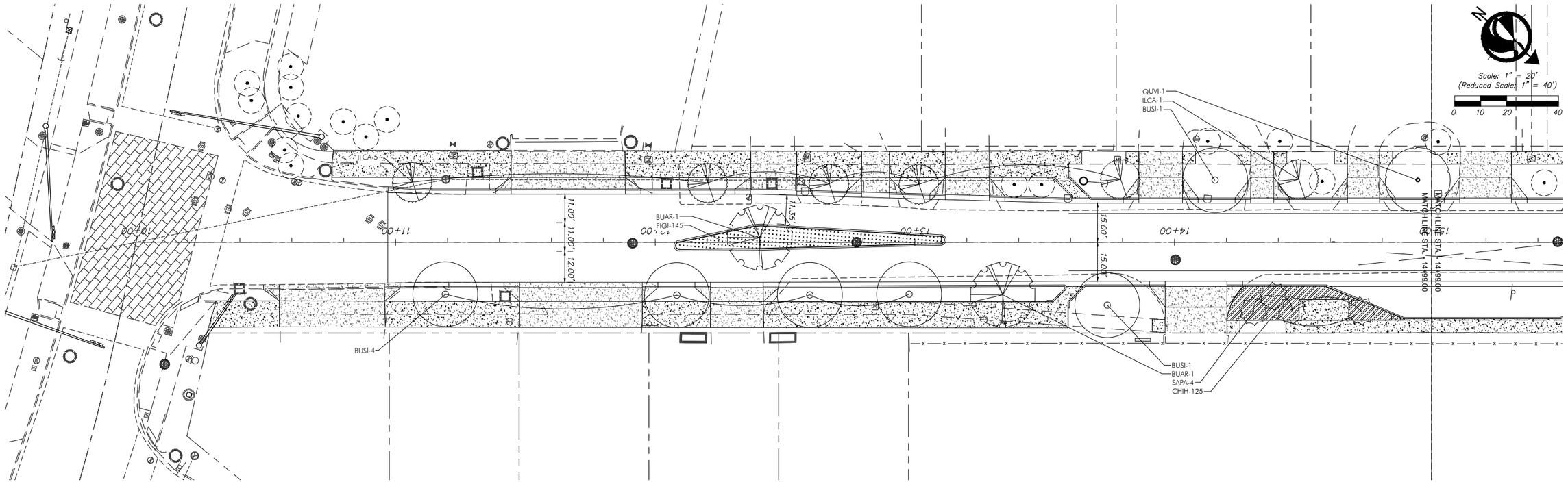
PROPOSED PLANT LIST
-FRANJO ROAD - 100% CDs-

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER ROAD TO SW 184TH STREET
PROJECT NO. 215615952 SHEET LA-20 OF 35



PLANT LIST

KEY	PLANT NAME		SIZE
TREES			
BUAR	Bulnesia arborea	...Verawood	12' tall x 5' spread, 2 1/2" cal., 4' CT min
BUSI	Bursera simaruba	...Gumbo Limbo	12' tall x 5' spread, 2 1/2" cal., 4' CT min
CESP	Ceiba speciosa	...Silf Floss Tree	12' tall x 5' spread, 2 1/2" cal., 4' CT min
COES	Conocarpus erectus "Sericeus"	...Silver Buttonwood	12' tall x 5' spread, 2 1/2" cal., 4' CT min
ILCA	Ilex cassine	...Dahoon Holly	12' tall x 5' spread, 2 1/2" cal., 4' CT min
LAIN	Lagerstroemia indica "Muscogee"	...Crepe Myrtle	12' tall x 5' spread, 2 1/2" cal., 4' CT min, Purple Flowers
LYLA	Lysiloma latisiliquum	...Wild Tamarind	12' tall x 5' spread, 2 1/2" cal., 4' CT min
QUVI	Quercus virginiana	...Live Oak	12' tall x 5' spread, 2 1/2" cal., 4' CT min
PALMS			
KEY	**PLANT NAME**		**SIZE**
PSSA	Pseudophoenix sargentii	...Buccaneer Palm	4' CW
SAPA	Sabal palmetto	...Sabal Palm	22' tall OA, smooth trunks, hurricane cut
THRA	Thrinax radiata	...Thatch Palm	7' tall OA
SHRUBS AND GROUNDCOVERS			
KEY	**PLANT NAME**		**SIZE**
AEBL	Aechmea blanchetiana "Orange Form"	...Orange Bromeliad	24"x18", install 24" o.c.
CHIH	Chrysobalanus icaco "Horizontalis"	...Horizontal Cocoplum	12"x18", install 24" o.c.
FIGI	Ficus microcarpa "Green Island"	...Green Island Ficus	18"x18", install 24" o.c.
LADE	Lantana depressa	...Pineland Lantana	18"x18", install 18" o.c.
LOCH	Loropetalum chinensis "Rubrum"	...Fringeflower	18"x18", install 24" o.c.
MUCA	Muhlenbergia cappilaris	...Muhly Grass	3 gal cans, full, install 24" o.c.
RHIN	Rhaphiolepis indica	...Indian Hawthorne	18"x18", install 24" o.c.
ZAPU	Zamia pumila	...Coontie	18"x18", install 24" o.c.

LEGEND

EXISTING TREE TO REMAIN

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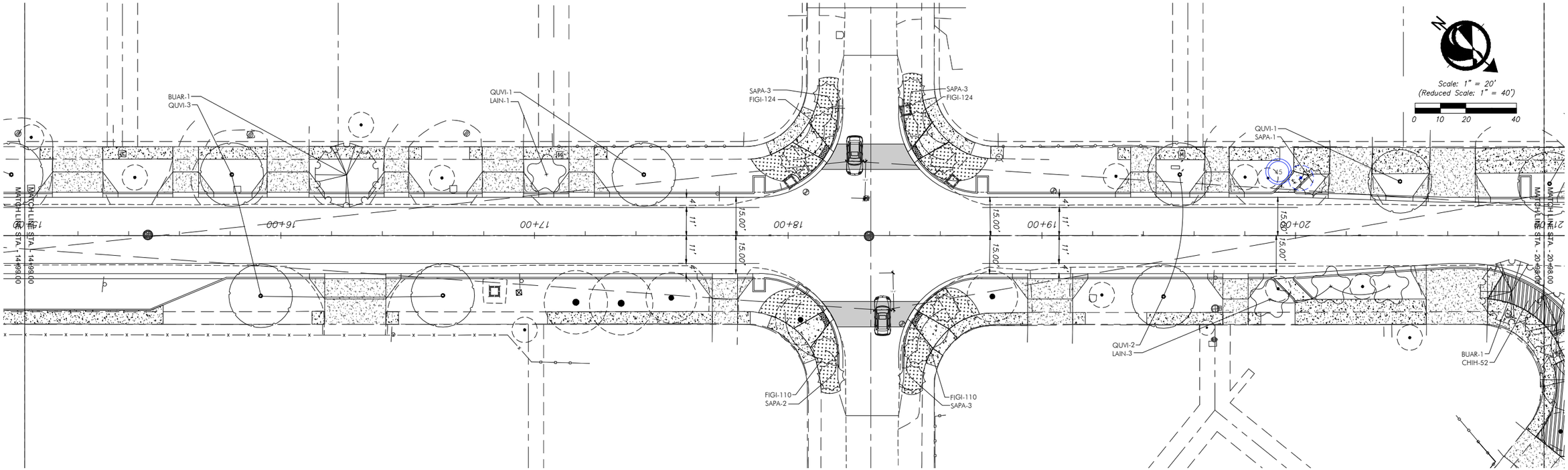
PLANTING PLAN
-FRANJO ROAD - 100% CDs-



PLANT LIST

KEY	PLANT NAME		SIZE
TREES			
BUAR	Bulnesia arborea	...Verawood	12' tall x 5' spread, 2 1/2" cal., 4' CT min
BUSI	Bursera simaruba	...Gumbo Limbo	12' tall x 5' spread, 2 1/2" cal., 4' CT min
CESP	Ceiba speciosa	...Silf Floss Tree	12' tall x 5' spread, 2 1/2" cal., 4' CT min
COES	Conocarpus erectus "Sericeus"	...Silver Buttonwood	12' tall x 5' spread, 2 1/2" cal., 4' CT min
ILCA	Ilex cassine	...Dahoon Holly	12' tall x 5' spread, 2 1/2" cal., 4' CT min
LAIN	Lagerstroemia indica "Muscogee"	...Crepe Myrtle	12' tall x 5' spread, 2 1/2" cal., 4' CT min, Purple Flowers
LYLA	Lysiloma latisiliquum	...Wild Tamarind	12' tall x 5' spread, 2 1/2" cal., 4' CT min
QUVI	Quercus virginiana	...Live Oak	12' tall x 5' spread, 2 1/2" cal., 4' CT min
PALMS			
KEY	**PLANT NAME**		**SIZE**
PSSA	Pseudophoenix sargentii	...Buccaneer Palm	4' CW
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KEY	**PLANT NAME**		**SIZE**
AEBL	Aechmea blanchetiana "Orange Form"	...Orange Bromeliad	24"x18", install 24" o.c.
CHIH	Chrysobalanus icaco "Horizontalis"	...Horizontal Cocoplum	12"x18", install 24" o.c.
FIGI	Ficus microcarpa "Green Island"	...Green Island Ficus	18"x18", install 24" o.c.
LADE	Lantana depressa	...Pineland Lantana	18"x18", install 18" o.c.
LOCH	Loropetalum chinensis "Rubrum"	...Fringeflower	18"x18", install 24" o.c.
MUCA	Muhlenbergia cappilaris	...Muhly Grass	3 gal cans, full, install 24" o.c.
RHIN	Rhaphiolepis indica	...Indian Hawthorne	18"x18", install 24" o.c.
ZAPU	Zamia pumila	...Coontie	18"x18", install 24" o.c.

LEGEND

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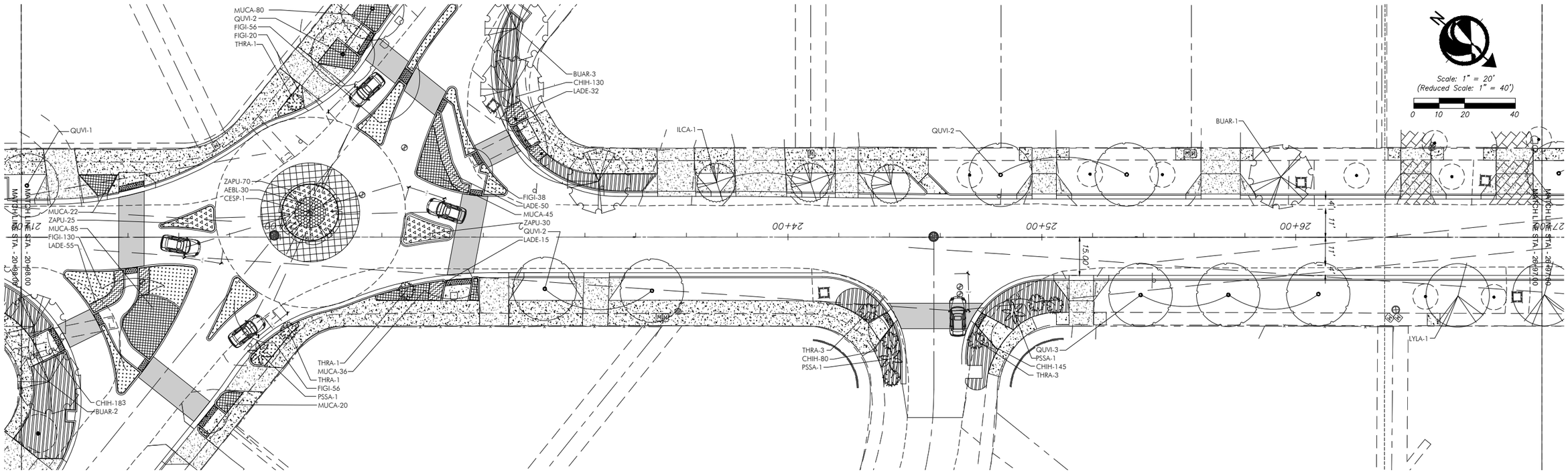
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER ROAD TO SW 184TH STREET
PROJECT NO. 215615952 SHEET LA-22 OF 35



PLANT LIST

KEY	PLANT NAME		SIZE
TREES			
BUAR	Bulnesia arborea	...Verawood	12' tall x 5' spread, 2 1/2" cal., 4' CT min
BUSI	Bursera simaruba	...Gumbo Limbo	12' tall x 5' spread, 2 1/2" cal., 4' CT min
CESP	Ceiba speciosa	...Silf Floss Tree	12' tall x 5' spread, 2 1/2" cal., 4' CT min
COES	Conocarpus erectus "Sericeus"	...Silver Buttonwood	12' tall x 5' spread, 2 1/2" cal., 4' CT min
ILCA	Ilex cassine	...Dahoon Holly	12' tall x 5' spread, 2 1/2" cal., 4' CT min
LAIN	Lagerstroemia indica "Muscogee"	...Crepe Myrtle	12' tall x 5' spread, 2 1/2" cal., 4' CT min, Purple Flowers
LYLA	Lysiloma latisiliquum	...Wild Tamarind	12' tall x 5' spread, 2 1/2" cal., 4' CT min
QUVI	Quercus virginiana	...Live Oak	12' tall x 5' spread, 2 1/2" cal., 4' CT min
PALMS			
KEY	**PLANT NAME**		**SIZE**
PSSA	Pseudophoenix sargentii	...Buccaneer Palm	4' CW
SAPA	Sabal palmetto	...Sabal Palm	22' tall OA, smooth trunks, hurricane cut
THRA	Thrinax radiata	...Thatch Palm	7' tall OA
SHRUBS AND GROUNDCOVERS			
KEY	**PLANT NAME**		**SIZE**
AEBL	Aechmea blanchetiana "Orange Form"	...Orange Bromeliad	24"x18", install 24" o.c.
CHIH	Chrysobalanus icaco "Horizontalis"	...Horizontal Cocoplum	12"x18", install 24" o.c.
FIGI	Ficus microcarpa "Green Island"	...Green Island Ficus	18"x18", install 24" o.c.
LADE	Lantana depressa	...Pineland Lantana	18"x18", install 18" o.c.
LOCH	Loropetalum chinensis "Rubrum"	...Fringeflower	18"x18", install 24" o.c.
MUCA	Muhlenbergia cappilaris	...Muhly Grass	3 gal cans, full, install 24" o.c.
RHIN	Rhaphiolepis indica	...Indian Hawthorne	18"x18", install 24" o.c.
ZAPU	Zamia pumila	...Coontie	18"x18", install 24" o.c.

LEGEND

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PLANTING PLAN
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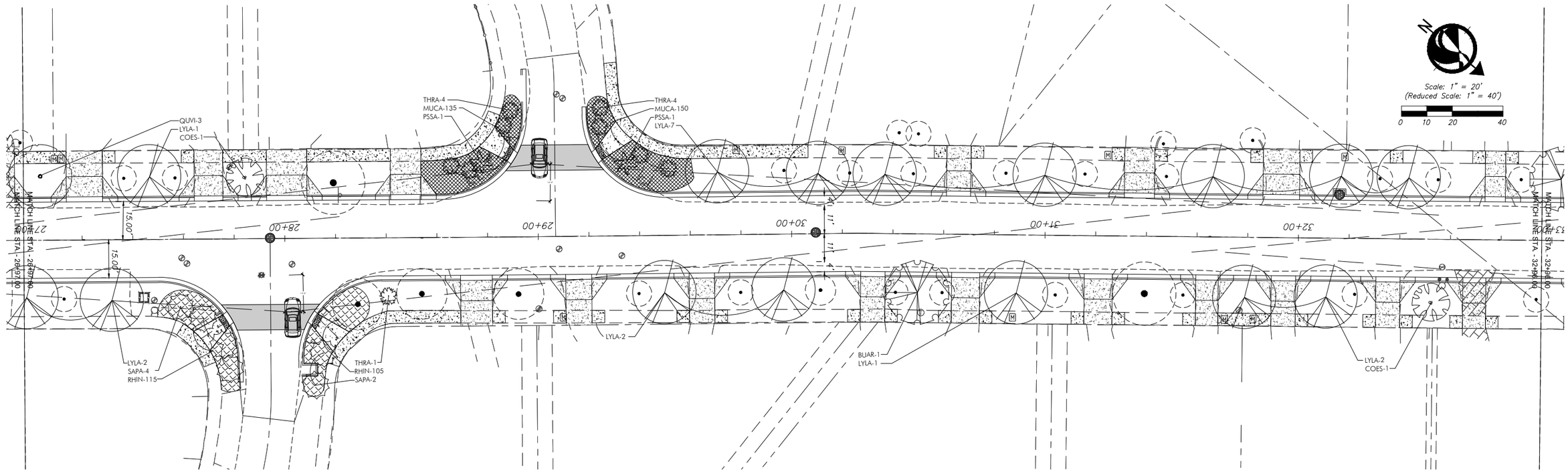

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MUCA	Muhlenbergia cappilaris	...Muhly Grass	3 gal cans, full, install 24" o.c.
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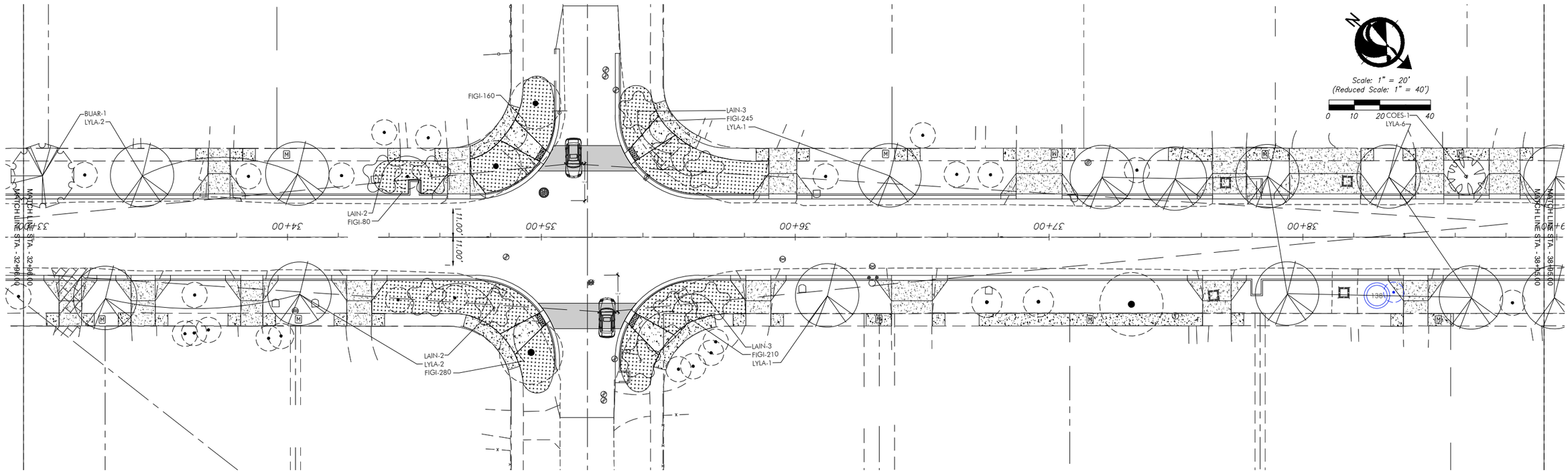
PROJECT NO. 215615952 SHEET LA-24 OF 35



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TREES

KEY	PLANT NAME		SIZE
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LAIN	Lagerstroemia indica "Muscogee"	...Crepe Myrtle	12' tall x 5' spread, 2 1/2" cal., 4' CT min, Purple Flowers
LYLA	Lysiloma latisiliquum	...Wild Tamarind	12' tall x 5' spread, 2 1/2" cal., 4' CT min
QUVI	Quercus virginiana	...Live Oak	12' tall x 5' spread, 2 1/2" cal., 4' CT min

PALMS

KEY	PLANT NAME		SIZE
PSSA	Pseudophoenix sargentii	...Buccaneer Palm	4' CW
SAPA	Sabal palmetto	...Sabal Palm	22' tall OA, smooth trunks, hurricane cut
THRA	Thrinax radiata	...Thatch Palm	7' tall OA

SHRUBS AND GROUNDCOVERS

KEY	PLANT NAME		SIZE
AEBL	Aechmea blanchetiana "Orange Form"	...Orange Bromeliad	24"x18", install 24" o.c.
CHIH	Chrysobalanus icaco "Horizontalis"	...Horizontal Cocoplum	12"x18", install 24" o.c.
FIGI	Ficus microcarpa "Green Island"	...Green Island Ficus	18"x18", install 24" o.c.
LADE	Lantana depressa	...Pineland Lantana	18"x18", install 18" o.c.
LOCH	Loropetalum chinensis "Rubrum"	...Fringeflower	18"x18", install 24" o.c.
MUCA	Muhlenbergia cappilaris	...Muhly Grass	3 gal cans, full, install 24" o.c.
RHIN	Rhaphiolepis indica	...Indian Hawthorne	18"x18", install 24" o.c.
ZAPU	Zamia pumila	...Coontie	18"x18", install 24" o.c.

LEGEND

EXISTING TREE TO REMAIN

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DESIGNED BY	C.G.	2-10-2022	DRAWN BY		
CHECKED BY	K.S.	2-10-2022	CHECKED BY		

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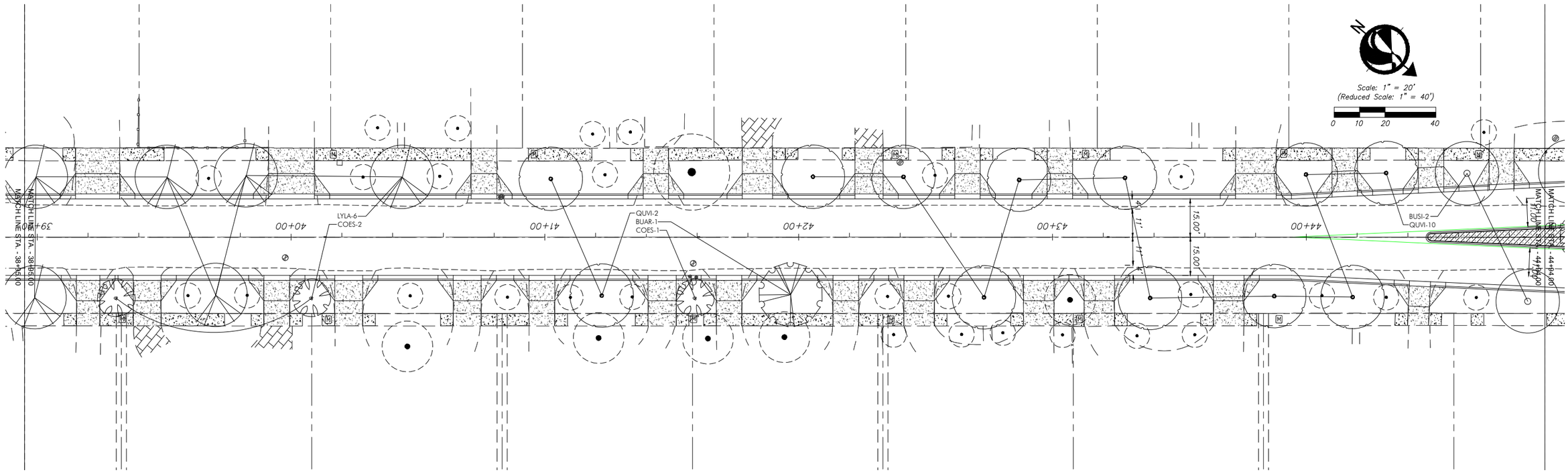
MIAMI-DADE
PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

PLANTING PLAN
-FRANJO ROAD - 100% CDs-



PLANT LIST

KEY	PLANT NAME		SIZE
TREES			
BUAR	Bulnesia arborea	...Verawood	12' tall x 5' spread, 2 1/2" cal., 4' CT min
BUSI	Bursera simaruba	...Gumbo Limbo	12' tall x 5' spread, 2 1/2" cal., 4' CT min
CESP	Ceiba speciosa	...Silf Floss Tree	12' tall x 5' spread, 2 1/2" cal., 4' CT min
COES	Conocarpus erectus "Sericeus"	...Silver Buttonwood	12' tall x 5' spread, 2 1/2" cal., 4' CT min
ILCA	Ilex cassine	...Dahoon Holly	12' tall x 5' spread, 2 1/2" cal., 4' CT min
LAIN	Lagerstroemia indica "Muscogee"	...Crepe Myrtle	12' tall x 5' spread, 2 1/2" cal., 4' CT min, Purple Flowers
LYLA	Lysiloma latisiliquum	...Wild Tamarind	12' tall x 5' spread, 2 1/2" cal., 4' CT min
QUVI	Quercus virginiana	...Live Oak	12' tall x 5' spread, 2 1/2" cal., 4' CT min
PALMS			
KEY	**PLANT NAME**		**SIZE**
PSSA	Pseudophoenix sargentii	...Buccaneer Palm	4' CW
SAPA	Sabal palmetto	...Sabal Palm	22' tall OA, smooth trunks, hurricane cut
THRA	Thrinax radiata	...Thatch Palm	7' tall OA
SHRUBS AND GROUNDCOVERS			
KEY	**PLANT NAME**		**SIZE**
AEBL	Aechmea blanchetiana "Orange Form"	...Orange Bromeliad	24"x18", install 24" o.c.
CHIH	Chrysobalanus icaco "Horizontalis"	...Horizontal Cocoplum	12"x18", install 24" o.c.
FIGI	Ficus microcarpa "Green Island"	...Green Island Ficus	18"x18", install 24" o.c.
LADE	Lantana depressa	...Pineland Lantana	18"x18", install 18" o.c.
LOCH	Loropetalum chinensis "Rubrum"	...Fringeflower	18"x18", install 24" o.c.
MUCA	Muhlenbergia cappilaris	...Muhly Grass	3 gal cans, full, install 24" o.c.
RHIN	Rhaphiolepis indica	...Indian Hawthorne	18"x18", install 24" o.c.
ZAPU	Zamia pumila	...Coontie	18"x18", install 24" o.c.

LEGEND

EXISTING TREE TO REMAIN

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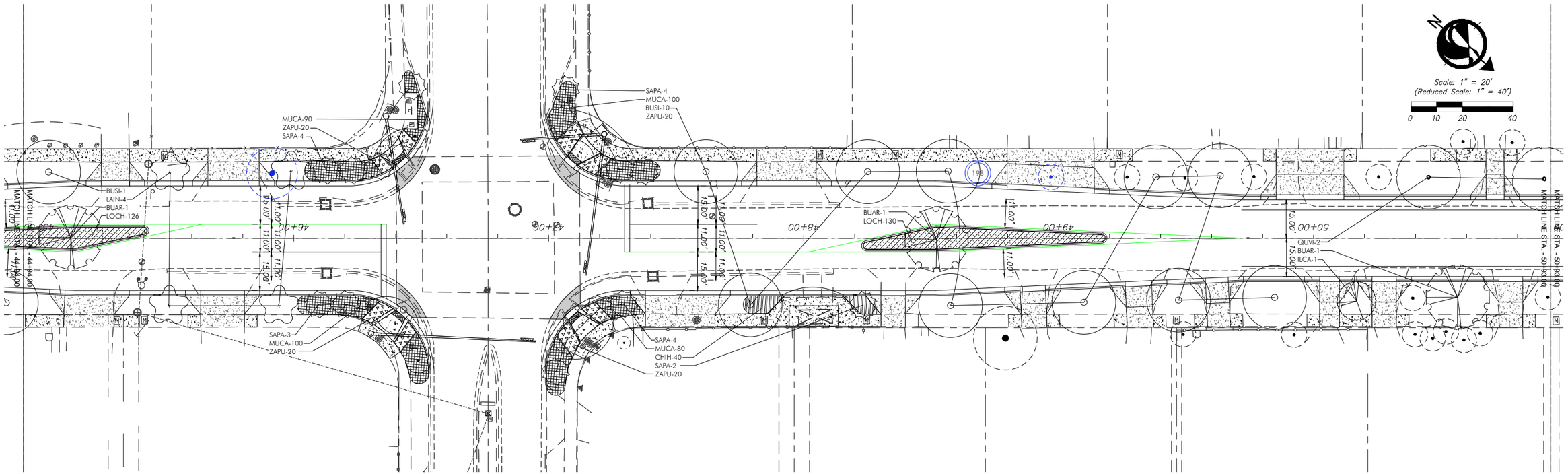
PLANTING PLAN
-FRANJO ROAD - 100% CDs-

MIAMI-DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER ROAD TO SW 184TH STREET
PROJECT NO. 215615952 SHEET LA-26 OF 35



PLANT LIST

KEY	PLANT NAME		SIZE
TREES			
BUAR	Bulnesia arborea	...Verawood	12' tall x 5' spread, 2 1/2" cal., 4' CT min
BUSI	Bursera simaruba	...Gumbo Limbo	12' tall x 5' spread, 2 1/2" cal., 4' CT min
CESP	Ceiba speciosa	...Silf Floss Tree	12' tall x 5' spread, 2 1/2" cal., 4' CT min
COES	Conocarpus erectus "Sericeus"	...Silver Buttonwood	12' tall x 5' spread, 2 1/2" cal., 4' CT min
ILCA	Ilex cassine	...Dahoon Holly	12' tall x 5' spread, 2 1/2" cal., 4' CT min
LAIN	Lagerstroemia indica "Muscogee"	...Crepe Myrtle	12' tall x 5' spread, 2 1/2" cal., 4' CT min, Purple Flowers
LYLA	Lysiloma latisiliquum	...Wild Tamarind	12' tall x 5' spread, 2 1/2" cal., 4' CT min
QUVI	Quercus virginiana	...Live Oak	12' tall x 5' spread, 2 1/2" cal., 4' CT min
PALMS			
KEY	**PLANT NAME**		**SIZE**
PSSA	Pseudophoenix sargentii	...Buccaneer Palm	4' CW
SAPA	Sabal palmetto	...Sabal Palm	22' tall OA, smooth trunks, hurricane cut
THRA	Thrinax radiata	...Thatch Palm	7' tall OA
SHRUBS AND GROUNDCOVERS			
KEY	**PLANT NAME**		**SIZE**
AEBL	Aechmea blanchetiana "Orange Form"	...Orange Bromeliad	24"x18", install 24" o.c.
CHIH	Chrysobalanus icaco "Horizontalis"	...Horizontal Cocoplum	12"x18", install 24" o.c.
FIGI	Ficus microcarpa "Green Island"	...Green Island Ficus	18"x18", install 24" o.c.
LADE	Lantana depressa	...Pineland Lantana	18"x18", install 18" o.c.
LOCH	Loropetalum chinensis "Rubrum"	...Fringeflower	18"x18", install 24" o.c.
MUCA	Muhlenbergia cappilaris	...Muhly Grass	3 gal cans, full, install 24" o.c.
RHIN	Rhaphiolepis indica	...Indian Hawthorne	18"x18", install 24" o.c.
ZAPU	Zamia pumila	...Coontie	18"x18", install 24" o.c.

LEGEND

EXISTING TREE TO REMAIN

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PLANTING PLAN
-FRANJO ROAD - 100% CDs-

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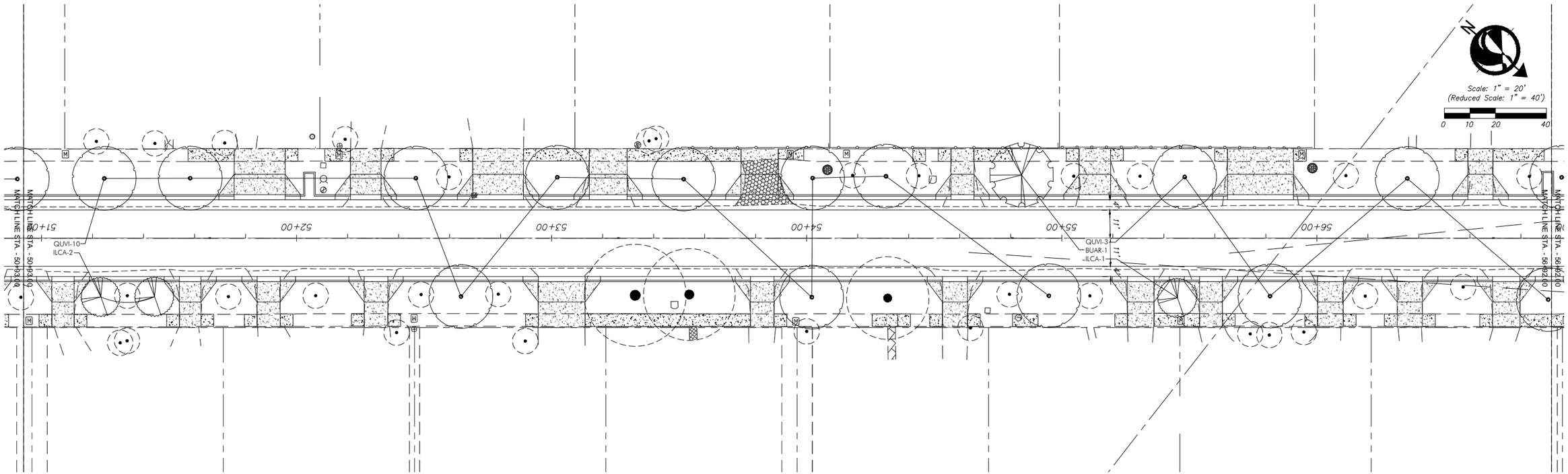
CREATED: 2022-12-14 - O:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\DSLA SHEETS.DWG

MIAMI–DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER ROAD TO SW 184TH STREET
PROJECT NO. 215615952 SHEET LA-27 OF 35



PLANT LIST

KEY	PLANT NAME		SIZE
TREES			
BUAR	Bulnesia arborea	...Verawood	12' tall x 5' spread, 2 1/2" cal., 4' CT min
BUSI	Bursera simaruba	...Gumbo Limbo	12' tall x 5' spread, 2 1/2" cal., 4' CT min
CESP	Ceiba speciosa	...Silf Floss Tree	12' tall x 5' spread, 2 1/2" cal., 4' CT min
COES	Conocarpus erectus "Sericeus"	...Silver Buttonwood	12' tall x 5' spread, 2 1/2" cal., 4' CT min
ILCA	Ilex cassine	...Dahoon Holly	12' tall x 5' spread, 2 1/2" cal., 4' CT min
LAIN	Lagerstroemia indica "Muscogee"	...Crepe Myrtle	12' tall x 5' spread, 2 1/2" cal., 4' CT min, Purple Flowers
LYLA	Lysiloma latisiliquum	...Wild Tamarind	12' tall x 5' spread, 2 1/2" cal., 4' CT min
QUVI	Quercus virginiana	...Live Oak	12' tall x 5' spread, 2 1/2" cal., 4' CT min
PALMS			
KEY	**PLANT NAME**		**SIZE**
PSSA	Pseudophoenix sargentii	...Buccaneer Palm	4' CW
SAPA	Sabal palmetto	...Sabal Palm	22' tall OA, smooth trunks, hurricane cut
THRA	Thrinax radiata	...Thatch Palm	7' tall OA
SHRUBS AND GROUNDCOVERS			
KEY	**PLANT NAME**		**SIZE**
AEBL	Aechmea blanchetiana "Orange Form"	...Orange Bromeliad	24"x18", install 24" o.c.
CHIH	Chrysobalanus icaco "Horizontalis"	...Horizontal Cocoplum	12"x18", install 24" o.c.
FIGI	Ficus microcarpa "Green Island"	...Green Island Ficus	18"x18", install 24" o.c.
LADE	Lantana depressa	...Pineland Lantana	18"x18", install 18" o.c.
LOCH	Loropetalum chinensis "Rubrum"	...Fringeflower	18"x18", install 24" o.c.
MUCA	Muhlenbergia cappilaris	...Muhly Grass	3 gal cans, full, install 24" o.c.
RHIN	Rhaphiolepis indica	...Indian Hawthorne	18"x18", install 24" o.c.
ZAPU	Zamia pumila	...Coontie	18"x18", install 24" o.c.

LEGEND

EXISTING TREE TO REMAIN

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PLANTING PLAN
-FRANJO ROAD - 100% CDs-

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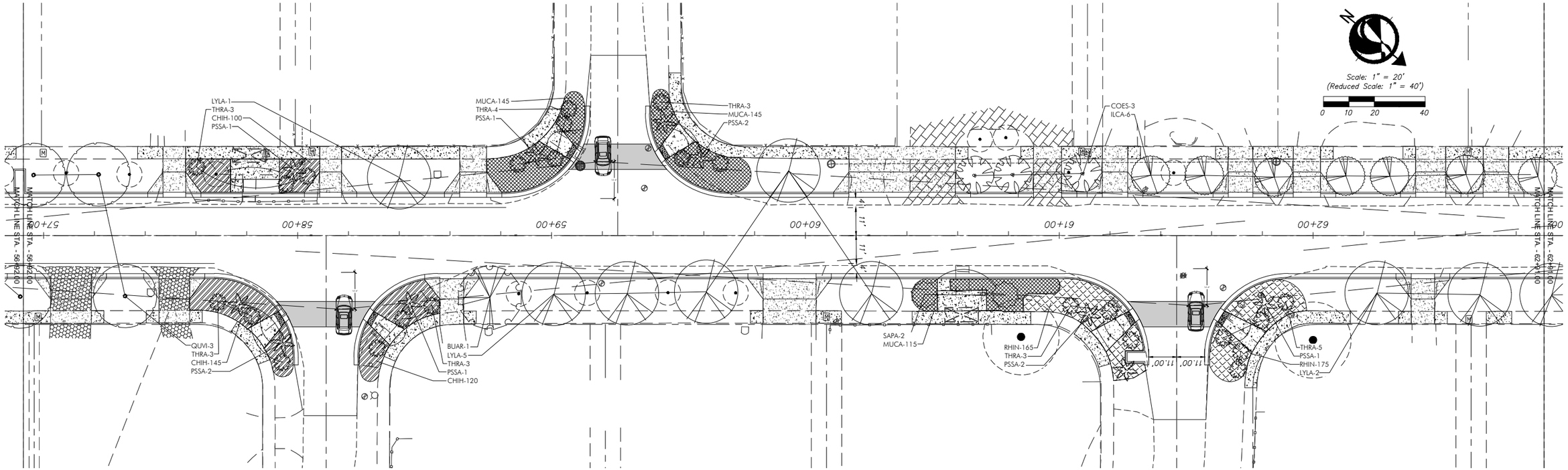

PLANT LIST

KEY	PLANT NAME		SIZE
TREES			
BUAR	Bulnesia arborea	...Verawood	12' tall x 5' spread, 2 1/2" cal., 4' CT min
BUSI	Bursera simaruba	...Gumbo Limbo	12' tall x 5' spread, 2 1/2" cal., 4' CT min
CESP	Ceiba speciosa	...Silf Floss Tree	12' tall x 5' spread, 2 1/2" cal., 4' CT min
COES	Conocarpus erectus "Sericeus"	...Silver Buttonwood	12' tall x 5' spread, 2 1/2" cal., 4' CT min
ILCA	Ilex cassine	...Dahoon Holly	12' tall x 5' spread, 2 1/2" cal., 4' CT min
LAIN	Lagerstroemia indica "Muscogee"	...Crepe Myrtle	12' tall x 5' spread, 2 1/2" cal., 4' CT min, Purple Flowers
LYLA	Lysiloma latisiliquum	...Wild Tamarind	12' tall x 5' spread, 2 1/2" cal., 4' CT min
QUVI	Quercus virginiana	...Live Oak	12' tall x 5' spread, 2 1/2" cal., 4' CT min
PALMS			
KEY	**PLANT NAME**		**SIZE**
PSSA	Pseudophoenix sargentii	...Buccaneer Palm	4' CW
SAPA	Sabal palmetto	...Sabal Palm	22' tall OA, smooth trunks, hurricane cut
THRA	Thrinax radiata	...Thatch Palm	7' tall OA
SHRUBS AND GROUNDCOVERS			
KEY	**PLANT NAME**		**SIZE**
AEBL	Aechmea blanchetiana "Orange Form"	...Orange Bromeliad	24"x18", install 24" o.c.
CHIH	Chrysobalanus icaco "Horizontalis"	...Horizontal Cocoplum	12"x18", install 24" o.c.
FIGI	Ficus microcarpa "Green Island"	...Green Island Ficus	18"x18", install 24" o.c.
LADE	Lantana depressa	...Pineland Lantana	18"x18", install 18" o.c.
LOCH	Loropetalum chinensis "Rubrum"	...Fringeflower	18"x18", install 24" o.c.
MUCA	Muhlenbergia cappilaris	...Muhly Grass	3 gal cans, full, install 24" o.c.
RHIN	Rhaphiolepis indica	...Indian Hawthorne	18"x18", install 24" o.c.
ZAPU	Zamia pumila	...Coontie	18"x18", install 24" o.c.

LEGEND

EXISTING TREE TO REMAIN

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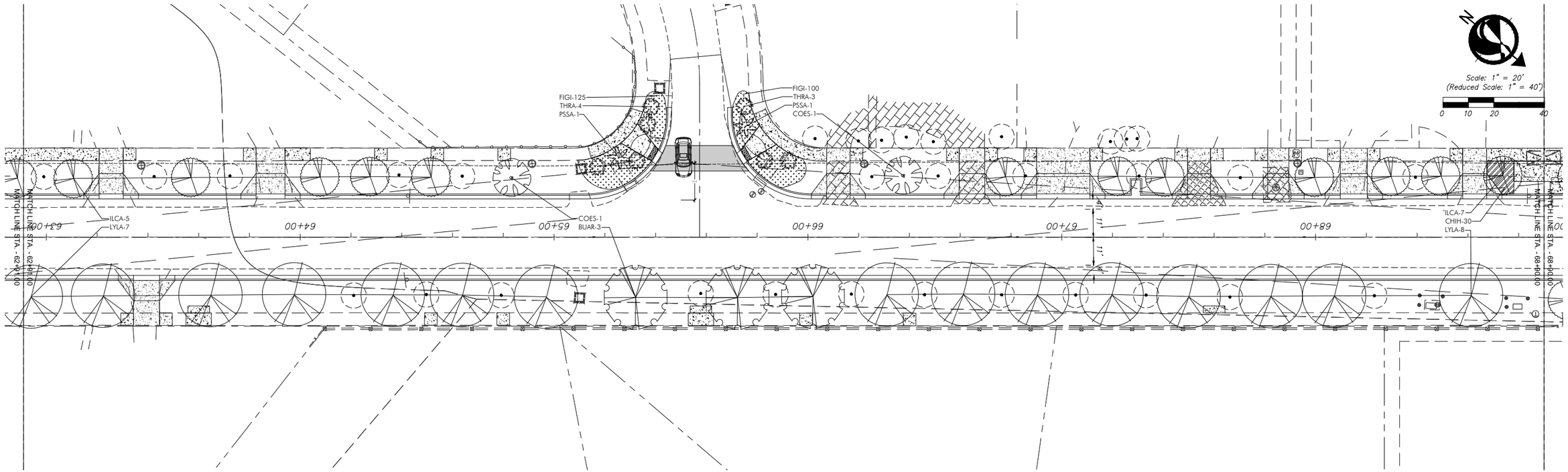
PLANTING PLAN
-FRANJO ROAD - 100% CDs-



PLANT LIST

TREES

KEY	PLANT NAME	SIZE
BUAR	Bulnesia arborea ...Verawood	12' tall x 5' spread, 2 1/2" cal., 4' CT min
BUSI	Bursera simaruba ...Gumbo Limbo	12' tall x 5' spread, 2 1/2" cal., 4' CT min
CESP	Ceiba speciosa ...Silf Floss Tree	12' tall x 5' spread, 2 1/2" cal., 4' CT min
COES	Conocarpus erectus "Sericeus" ...Silver Buttonwood	12' tall x 5' spread, 2 1/2" cal., 4' CT min
ILCA	Ilex cassine ...Dahoon Holly	12' tall x 5' spread, 2 1/2" cal., 4' CT min
LAIN	Lagerstroemia indica "Muscogee" ...Crepe Myrtle	12' tall x 5' spread, 2 1/2" cal., 4' CT min, Purple Flowers
LYLA	Lysiloma latisiliquum ...Wild Tamarind	12' tall x 5' spread, 2 1/2" cal., 4' CT min
QUVI	Quercus virginiana ...Live Oak	12' tall x 5' spread, 2 1/2" cal., 4' CT min

PALMS

KEY	PLANT NAME	SIZE
PSSA	Pseudophoenix sargentii ...Buccaneer Palm	4' CW
SAPA	Sabal palmetto ...Sabal Palm	22' tall OA, smooth trunks, hurricane cut
THRA	Thrinax radiata ...Thatch Palm	7' tall OA

SHRUBS AND GROUNDCOVERS

KEY	PLANT NAME	SIZE
AEBL	Aechmea blanchetiana "Orange Form" ...Orange Bromeliad	24"x18", install 24" o.c.
CHIH	Chrysobalanus icaco "Horizontalis" ...Horizontal Cocoplum	12"x18", install 24" o.c.
FIGI	Ficus microcarpa "Green Island" ...Green Island Ficus	18"x18", install 24" o.c.
LADE	Lantana depressa ...Pineland Lantana	18"x18", install 18" o.c.
LOCH	Loropetalum chinensis "Rubrum" ...Fringeflower	18"x18", install 24" o.c.
MUCA	Muhlenbergia cappilaris ...Muhly Grass	3 gal cans, full, install 24" o.c.
RHIN	Rhaphiolepis indica ...Indian Hawthorne	18"x18", install 24" o.c.
ZAPU	Zamia pumila ...Coontie	18"x18", install 24" o.c.

LEGEND

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PLANTING PLAN
-FRANJO ROAD - 100% CDs-

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MIAMI–DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER ROAD TO SW 184TH STREET
PROJECT NO. 215615952 SHEET LA-30 OF 35

PVF - (11)

Scale: 1" = 20'
(Reduced Scale: 1" = 40')
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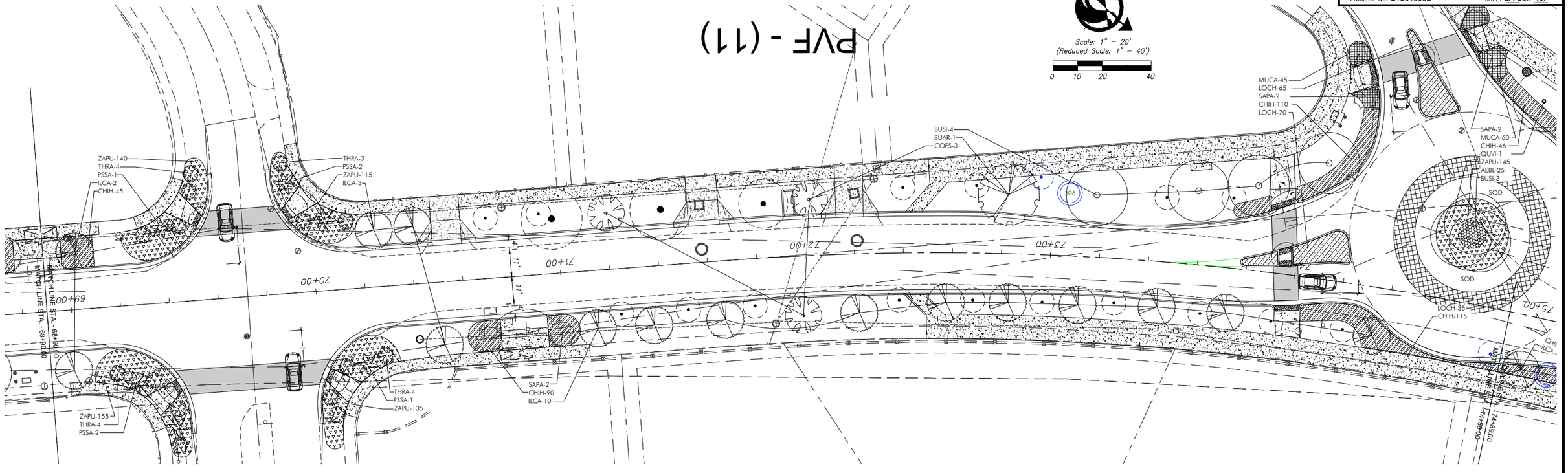

PLANT LIST

KEY	PLANT NAME		SIZE
TREES			
BUAR	Bulnesia arborea	...Verawood	12' tall x 5' spread, 2 1/2" cal., 4' CT min
BUSI	Bursera simaruba	...Gumbo Limbo	12' tall x 5' spread, 2 1/2" cal., 4' CT min
CESP	Ceiba speciosa	...Silf Floss Tree	12' tall x 5' spread, 2 1/2" cal., 4' CT min
COES	Conocarpus erectus "Sericeus"	...Silver Buttonwood	12' tall x 5' spread, 2 1/2" cal., 4' CT min
ILCA	Ilex cassine	...Dahoon Holly	12' tall x 5' spread, 2 1/2" cal., 4' CT min
LAIN	Lagerstroemia indica "Muscogee"	...Crepe Myrtle	12' tall x 5' spread, 2 1/2" cal., 4' CT min, Purple Flowers
LYLA	Lysiloma latisiliquum	...Wild Tamarind	12' tall x 5' spread, 2 1/2" cal., 4' CT min
QUVI	Quercus virginiana	...Live Oak	12' tall x 5' spread, 2 1/2" cal., 4' CT min
PALMS			
KEY	**PLANT NAME**		**SIZE**
PSSA	Pseudophoenix sargentii	...Buccaneer Palm	4' CW
SAPA	Sabal palmetto	...Sabal Palm	22' tall OA, smooth trunks, hurricane cut
THRA	Thrinax radiata	...Thatch Palm	7' tall OA
SHRUBS AND GROUNDCOVERS			
KEY	**PLANT NAME**		**SIZE**
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CHIH	Chrysobalanus icaco "Horizontalis"	...Horizontal Cocoplum	12"x18", install 24" o.c.
FIGI	Ficus microcarpa "Green Island"	...Green Island Ficus	18"x18", install 24" o.c.
LADE	Lantana depressa	...Pineland Lantana	18"x18", install 18" o.c.
LOCH	Loropetalum chinensis "Rubrum"	...Fringeflower	18"x18", install 24" o.c.
MUCA	Muhlenbergia cappilaris	...Muhly Grass	3 gal cans, full, install 24" o.c.
RHIN	Rhaphiolepis indica	...Indian Hawthorne	18"x18", install 24" o.c.
ZAPU	Zamia pumila	...Coontie	18"x18", install 24" o.c.

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MIAMI, FLORIDA 33128

PLANTING PLAN
-FRANJO ROAD - 100% CDs-

PLOTTED BY: KERIL SEMLER DATE: 12/14/2022 1:53 PM
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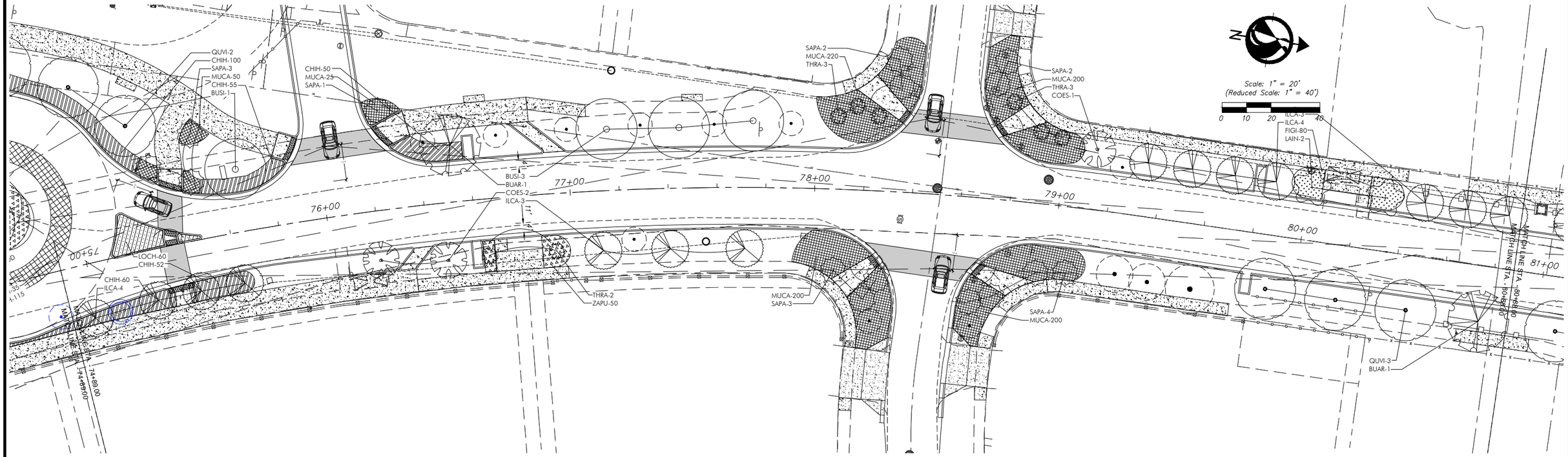
MIAMI–DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER ROAD TO SW 184TH STREET
PROJECT NO. 215615952 SHEET LA-31 OF 35



PLANT LIST

KEY	PLANT NAME		SIZE
TREES			
BUAR	Bulnesia arborea	...Verawood	12' tall x 5' spread, 2 1/2" cal., 4' CT min
BUSI	Bursera simaruba	...Gumbo Limbo	12' tall x 5' spread, 2 1/2" cal., 4' CT min
CESP	Ceiba speciosa	...Silf Floss Tree	12' tall x 5' spread, 2 1/2" cal., 4' CT min
COES	Conocarpus erectus "Sericeus"	...Silver Buttonwood	12' tall x 5' spread, 2 1/2" cal., 4' CT min
ILCA	Ilex cassine	...Dahoon Holly	12' tall x 5' spread, 2 1/2" cal., 4' CT min
LAIN	Lagerstroemia indica "Muscogee"	...Crepe Myrtle	12' tall x 5' spread, 2 1/2" cal., 4' CT min, Purple Flowers
LYLA	Lysiloma latisiliquum	...Wild Tamarind	12' tall x 5' spread, 2 1/2" cal., 4' CT min
QUVI	Quercus virginiana	...Live Oak	12' tall x 5' spread, 2 1/2" cal., 4' CT min
PALMS			
KEY	**PLANT NAME**		**SIZE**
PSSA	Pseudophoenix sargentii	...Buccaneer Palm	4' CW
SAPA	Sabal palmetto	...Sabal Palm	22' tall OA, smooth trunks, hurricane cut
THRA	Thrinax radiata	...Thatch Palm	7' tall OA
SHRUBS AND GROUNDCOVERS			
KEY	**PLANT NAME**		**SIZE**
AEBL	Aechmea blanchetiana "Orange Form"	...Orange Bromeliad	24"x18", install 24" o.c.
CHIH	Chrysobalanus icaco "Horizontalis"	...Horizontal Cocoplum	12"x18", install 24" o.c.
FIGI	Ficus microcarpa "Green Island"	...Green Island Ficus	18"x18", install 24" o.c.
LADE	Lantana depressa	...Pineland Lantana	18"x18", install 18" o.c.
LOCH	Loropetalum chinensis "Rubrum"	...Fringeflower	18"x18", install 24" o.c.
MUCA	Muhlenbergia cappilaris	...Muhly Grass	3 gal cans, full, install 24" o.c.
RHIN	Rhaphiolepis indica	...Indian Hawthorne	18"x18", install 24" o.c.
ZAPU	Zamia pumila	...Coontie	18"x18", install 24" o.c.

LEGEND

EXISTING TREE TO REMAIN

REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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DESIGNED BY	C.G.	2-10-2022	DRAWN BY		
CHECKED BY	K.S.	2-10-2022	CHECKED BY		

SUPERVISED BY:

MIAMI–DADE
PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT
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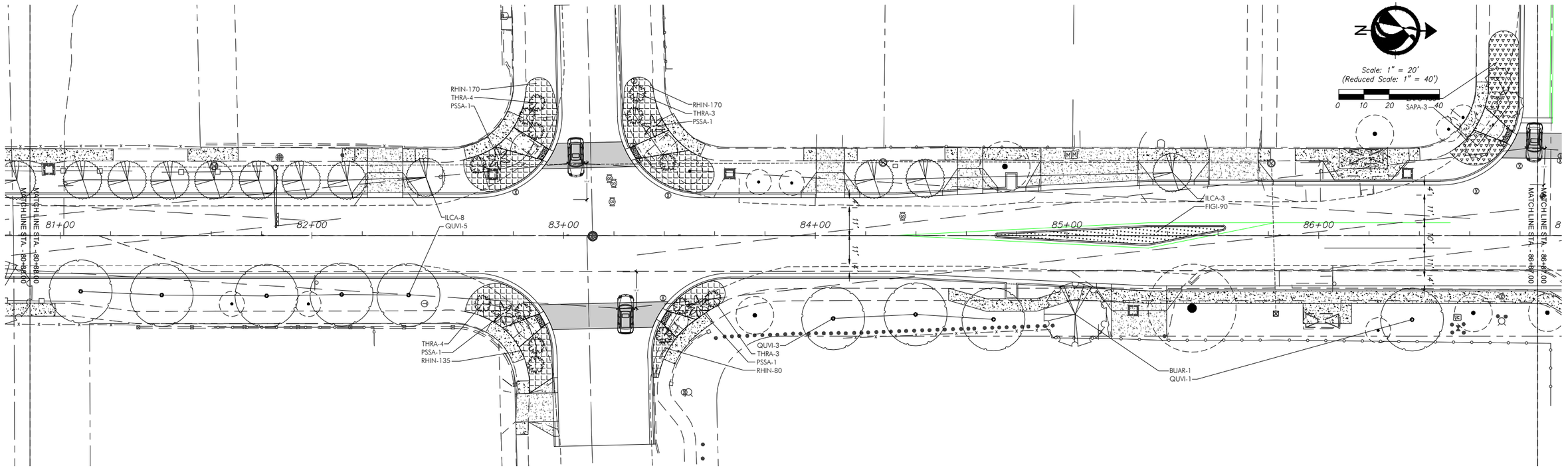

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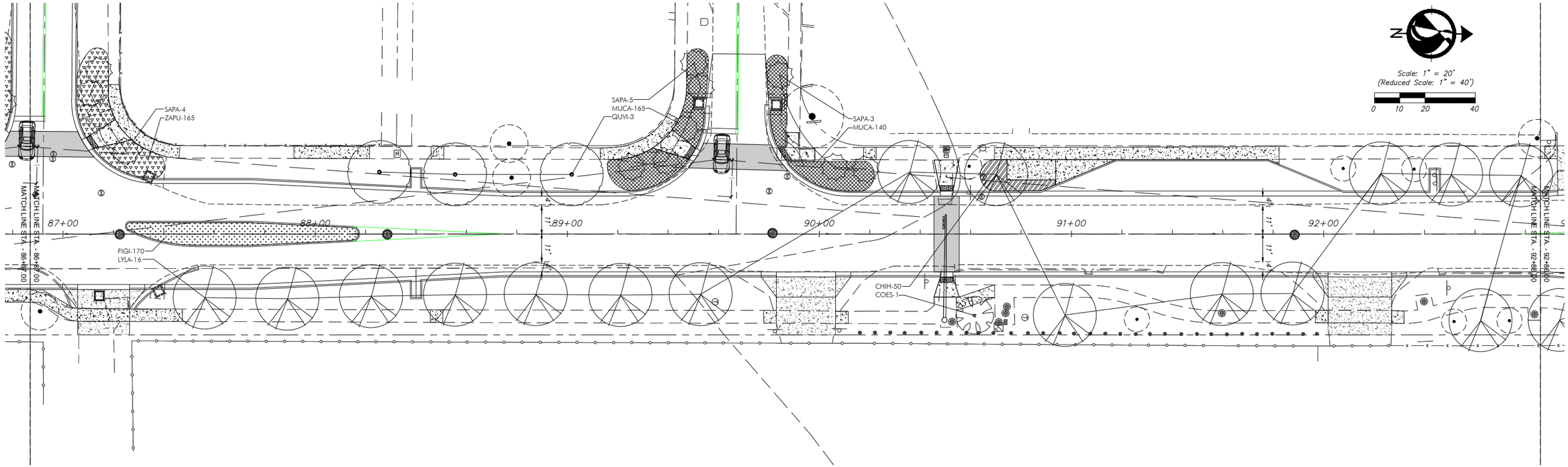
PROJECT NO. 215615952 SHEET LA-33 OF 35



Scale: 1" = 20'
(Reduced Scale: 1" = 40')
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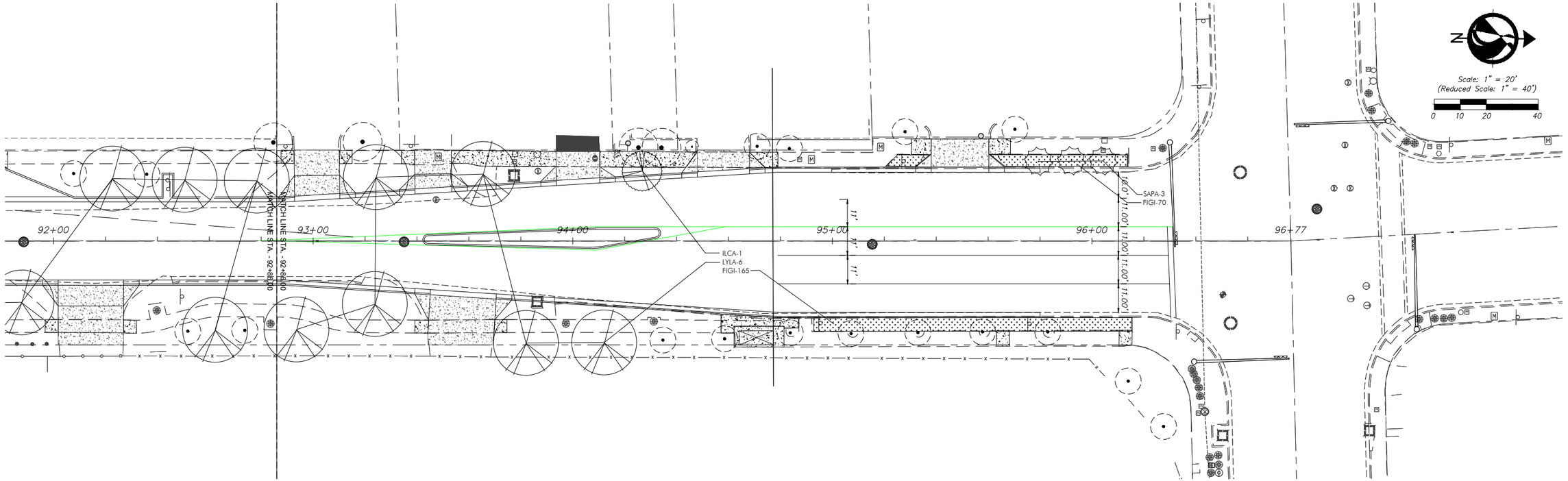

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LANDSCAPE SPECIFICATIONS
PART 1 - GENERAL

1.1 SCOPE
A. Contractor shall provide all labor, materials, equipment, supervision, and related work necessary to complete the landscape work in accordance with the intent of the landscape plans, schedules and these specifications. The extent of work is shown on the drawings which are a part of this document.

1.2 CONTRACTOR QUALIFICATIONS
A. Landscape installation work to be performed by a Contractor Certified by the Florida Nurserymen, Growers and Landscape Association (FNGLA) as a Certified Landscape Contractor. Any pruning to be supervised by an Arborist, certified by the International Society of Arboriculture (ISA) and licensed in County where work is performed.

1.3 INVESTIGATION OF UTILITIES
A. Prior to beginning work, the Contractor shall be responsible to locate existing underground utilities. Check with all utility companies and Sunshine State, call (811).

1.4 SUBSTITUTIONS
A. Only materials specified will be accepted, unless approved in writing by the Landscape Architect in advance.

1.5 PLANT SIZES
A. All plant sizes shall equal or exceed the minimum sizes as specified in the plant list. When plant sizes are specified as a range of size, installed materials shall average the mean of the range specified. Plants shall be measured following pruning, with branches in normal position. All necessary pruning shall be done at the time of planting.

1.6 PLANT QUALITY
A. All plant material shall be equal to or better than Florida No. 1 as classified by "Grades and Standards for Nursery Plants" by the Division of Plant Industry, Florida Department of Agriculture. They shall have a growth habit that is normal for the species; healthy, vigorous, free from insects, disease and injury.

B. The Owner or Landscape Architect reserves the right to refuse any plant material which does not conform to the intent of the written specifications or design.

C. CIRCLING ROOTS FOUND ON CONTAINER-GROWN MATERIAL WILL NOT BE ACCEPTED UNLESS REMEDIAL ROOT PRUNING, APPROVED BY THE LANDSCAPE ARCHITECT IS DONE BEFORE PLANTING.

1.7 PLANT QUANTITY
A. The plant quantities shown on the plant list are to be used only as an aid to bidders. In the case of discrepancy between the plant list and the plan, the quantity on the plan shall override the plant list.

1.8 UNIT PRICES
A. The successful bidder shall furnish to the Owner and the Landscape Architect, a unit price breakdown for all materials. The Owner may, at his discretion, add to or delete from the materials utilizing the unit price breakdown submitted to and accepted by the Owner.

1.9 SUBMITTALS
A. Fertilizer: The Contractor shall submit to the Owner and Landscape Architect documentation that all the fertilizer used for the project is of the analysis specified and placed at the rates specified in section 2.2 FERTILIZER.

B. Planting soil: The Contractor shall submit a sample of the planting soil (approximately 1 cu. Ft.) for approval by the Landscape Architect prior to delivery to the site.

1.10 CLEAN-UP & MAINTENANCE OF TRAFFIC
A. Follow procedures in FDOT Index 600 for maintenance of traffic during construction.

B. At the end of each work day, the Contractor shall remove debris and shall barricade the un-filled holes in a manner appropriate in the path of pedestrians and motorists.

C. Upon completion of the work or any major portion of the work or as directed by the Landscape Architect, all debris and surplus material from his work shall be removed from the job site.

1.11 MAINTENANCE PRIOR TO ACCEPTANCE
A. The Contractor is responsible to maintain the plantings until they are accepted under the provisions of 1.12 "ACCEPTANCE OF INSTALLATION".

1. Plants: Begin maintenance immediately following the final plant installation operation for each plant and continue until all plant installation is complete and accepted. Maintenance shall include watering all plants, weeding, mulching, pest and disease control, tightening and repairing of guys, repair of braces, removal of dead growth, resetting of plants to proper grade or up-right position, restoration of plant saucer, litter pick-up in plant beds and other necessary operations to assure specified minimum grade of Florida No. 1.

2. Turf Areas: Begin maintenance of turf immediately following the placement of sod and continue until sod installation is complete and accepted. Maintenance shall include but not be limited to, watering, leveling, mowing, weed and pest control, fungus and disease control and other necessary operations as determined by the Landscape Architect and good nursery practice.

3. Re-setting or straightening trees and palms:
The Contractor shall re-set and/or straighten trees and palms as required at no additional cost to the Owner unless caused by sustained winds of 75 mph or more. Then, the costs of the operations may be charged to the owner. Re-set trees within 48 hours.

1.12 ACCEPTANCE OF INSTALLATION
A. Inspection: Inspection of the work, to determine completion of contract work, exclusive of the possible replacement of plants and turf, will be made by the Landscape Architect at the conclusion of the maintenance period. Written notice requesting such an inspection and submitted by the Contractor at least ten (10) days prior to the anticipated date.

1.13 GUARANTEE
A. Guarantee all plants for a period of one year (CCD). Guarantee shall commence from the date of written acceptance. Plant material which is on the site and scheduled to be relocated is not covered by the guarantee except in the case of Contractor's negligence or work that has been done in an unworkman-like manner. The Contractor is not responsible for loss due to acts of god, (i.e.) sustained winds of 75 mph or more, floods, frost, lightning, vandalism or theft.

1.14 REPLACEMENT
A. Replacement shall be made during the guarantee period as directed by the Landscape Architect within ten (10) days from time of notification. For all replacement plant material, the guarantee period shall extend for an additional forty-five (45) days beyond the original guarantee period. The Contractor shall be responsible to provide water to the replacement plants in sufficient quantity to aid in their establishment. At the end of the guarantee period, inspection will be made by the Landscape Architect, upon written notice requesting such inspection and submitted by the Contractor at least five (5) days before the anticipated date. Replacement plants must meet the requirements of Florida No. 1 at time of inspection. Remove from the site all plants that are dead or in a state of unsatisfactory growth, as determined by the Landscape Architect. Replace these and any plants missing due to the Contractor's negligence as soon as conditions permit.

1. Materials and Operations: All replacement plants shall be of the same kind and size as indicated on the plant list. The Contractor shall supply and plant the plants as specified under planting operations.

2. Cost of Replacements: A sum sufficient to cover the estimated cost of possible replacements, including material and labor will be retained by the Owner and paid to the Contractor after all replacements have been satisfactorily made and approved by the Landscape Architect.

PART 2 - MATERIALS

2.1 PLANTING SOIL
A. Planting soil for trees, shrubs and ground covers shall be of the composition noted on the plans, measured by volume.

B. Soil for Sodded Areas: shall be coarse lawn sand.

2.2 FERTILIZER
A. Fertilizer for trees, palms, shrubs, and groundcovers shall be as follows: LESCO Palm Special 13-3-13 or equal, Sulfur coated with iron and other minor elements and maximum of 2% chlorine, or brand with equal analysis. The fertilizer shall be uniform in composition, dry and free flowing and shall be delivered to the site in the original unopened containers, bearing the manufacturer's guaranteed analysis. Fertilizer for sod and seeded areas shall be 8-6-8, 50% organically derived nitrogen, or equal.

2.3 WATER
A. The Contractor shall provide potable water on site, available from the start of planting. The Contractor is responsible to ascertain the location and accessibility of the water source. The Contractor is responsible to provide the means of distribution (i.e. water truck, hoses, etc.) for distribution of water to the planting areas.

2.4 MULCH
A. Mulch shall be as specified on the Plant List.

2.5 ROOT BARRIER MATERIAL
A. Root barrier material shall be 24" deep polypropolylene panels by DeepRoot or approved equal.

B. Install per details in the plans.

PART 3 - INSTALLATION PROCEDURES

3.1 LAYOUT
A. Verify location of all underground utilities and obstructions prior to excavation.

3.2 HERBICIDE TREATMENT
A. In all areas infected with weed and/or grass growth, a systemic herbicide shall be applied per manufacturer's rates. When it has been established where work will be done, the systemic herbicide shall be applied in accordance with manufacturer's labeling to kill all noxious growth. Contractor shall schedule his work to allow more than one application to obtain at least 95% kill of undesirable growth. If necessary, Contractor shall conduct a test to establish suitability of product and applicator to be used on this project, prior to execution of the full application.

3.3 PLANT PIT EXCAVATION AND BACKFILLING
A. Trees: See the Planting and Bracing Details and notes.

B. All planting holes shall be hand dug where machine dug holes may adversely affect utilities or improvements.

C. Shrubs and Groundcover: Shrubs and groundcover shall be planted in a soil bed as described in the notes and details. Space shrubs and provide setback from curb and pavements as shown in the plans.

D. Watering of field-grown plants: Thoroughly puddle in water to remove any air pockets in the plant hole.

3.4 WATERING
A. The Contractor is responsible to provide the water for all new plants and transplants and means of distribution (i.e. hand watering or water truck) during the maintenance period and extending into the period after acceptance until the full schedule as listed below is complete. Water for trees and other large field grown plants shall be supplemented by hand or water truck, in addition to the irrigation system, (if one is provided). Contractor can adjust watering schedule during heavy rain season upon approval of the Landscape Architect.

AMOUNT OF WATER PER APPLICATION
For trees up to 5 inch caliper - 5 gallons
From 5 to 8 inch caliper - 25 gallons
9 inch and up caliper - 50 gallons

FREQUENCY OF WATER
Daily for the first week
3 times per week for weeks 2 - 5
2 times per week for weeks 6 - 8
1 time per week for weeks 9 - 12

B. Water in plants by thoroughly soaking of the entire root ball immediately after planting. For large trees and shrubs, add water while backfilling hole to eliminate any air pockets in the soil around the root ball.

C. Water shrubs, sod and groundcover a minimum of once daily for a week or until an irrigation system is fully operational. If no irrigation system is to be installed, the Contractor shall be responsible for watering the shrub, sod, and groundcover for the time specified above, after installation of each section of the planting installed.

3.5 FERTILIZING
A. Add fertilizer on top of the surface of shrubs beds and tree and palms root balls two (2) months after installation. Fertilize sod within two (2) days after installing after planting of each segment of the job. Fertilizer shall be applied after soil has been well moistened. Fertilizer shall be washed off of plant leaves and stems immediately after application. Apply at the following rates:

1. Trees and Large Shrubs: One (1) pound per inch of trunk diameter, spread evenly over the root ball area.

2. Shrubs: One half (1/2) handful per shrub, spread evenly over the root ball area.

3. Groundcover: Twelve (12) pounds per 100 sq. ft. of bed area.

4. Sod: Twelve (12) pounds per 1,000 sq. ft. Wash fertilizer off blades immediately after spreading.

3.6 MULCHING
A. Spread mulch two (2) inches thick uniformly over the entire surface of shrubs and groundcover beds, depth measured after settling, unless otherwise specified in the plans. Provide 36" diameter bed of mulch, measured from outer edge of the trunk, for all trees and palms planted in sod areas. Keep mulch away from contact with the trunk. Create a 6" high ring of mulch at the outer edge of tree and palm holes.

3.7 GUYING AND BRACING
A. See the details bound herewith or made part of the plans.

3.8 SODDING
A. Provide a blanket of lawn sand as described in the notes in these plans. Prior to planting, remove stones, sticks, etc. from the sub-soil surface. Excavate existing non-conforming soil as required so that the finish grade of sod is flush with adjacent pavement or top of curb as well as adjacent sod in the case of sod patching.

B. Place sod on moistened soil, with edges tightly butted, in staggered rows at right angles to slopes. The sod shall be rolled with a 500 pound hand roller immediately after placing.

C. Keep edge of sod bed a minimum of 18" away from groundcover beds and 24" away from edge of shrub beds and 36" from trees, measured from the edge of plant or tree trunk.

D. Sod shall be watered immediately after installation to uniformly wet the soil to at least two inches below the bottom of sod strips.

E. Apply fertilizer to the sod as specified in Section 3.5.

F. Excavate and remove excess soil so top of sod is flush w/top of curb or adjacent pavement, or adjacent existing sod.

PLANT BED PREPARATION NOTES

1. In all areas where new sod and shrub and groundcover masses are to be planted, kill all existing weeds by treating with systemic herbicide prior to beginning soil preparation.

2. In all shrub and groundcover beds, excavate and backfill soil as described in "Plant List(s)". If no specific preparation is noted, prepare soil as described below for either condition, over the entire area to be planted:

Condition A:
If any compacted road base or asphalt or rocky soil is encountered, remove compacted material entirely to allow an 18" depth of planting soil per plant list unless otherwise stated. Backfill the entire area of the shrub and groundcover beds with 18" planting soil (as specified in Plans) to within 2 inches of the adjacent pavement or top of curb. Remove all debris and rocks and pebbles larger than 2 inches in size and level the grade before planting.

Condition B:
Where no compacted soil is encountered, thoroughly mix 6 inches of planting soil per plant list into the existing soil to a depth of 18 inches unless otherwise stated. If required, excavate and remove the existing soil to lower the grade, so that the prepared mix is finished to a minimum of 2 inches below top of curb or adjacent walkway. Remove all debris and rocks and pebbles larger than 2 inches in size and level the grade before planting.

For all sod areas, spread a 2" deep layer of lawn sand prior to sodding. Remove all debris and rocks and pebbles larger than 2 inchs in size and level the grade before sodding. Remove, if required, existing soil so that top of sod is flush with and adjacent top of curb or pavement.

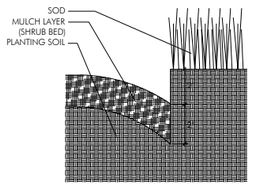
For Trees and shrubs larger than 7 gallon, Add Diehard® transplant innoculant supplied by Horticultural Alliance, Inc. (800-628-6373) or equal. Mix into top 8-10 inches of planting hole, making sure it is contact with the root ball. Add at a rate specified by manufacturer (typically 4oz. per 1 inches of trunk caliper or 7 gallon can).

SPACING OF PLANTS (SEE PLANT SPACING DETAIL)

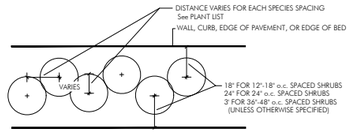
1. Plants shall be planted sufficiently away from edges of pavements or curbs, to allow for growth toward the edges of the bed.

PROTECTION OF PLANTS

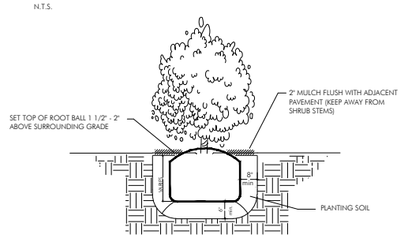
1. The Contractor shall be responsible to protect existing trees and shrubs in and adjacent to the area of work. Erect barriers as necessary to keep equipment and materials, any toxic material, away from the canopy drip line of trees and shrubs. DO NOT PILE SOIL OR DEBRIS AGAINST TREE TRUNKS OR DEPOSIT NOXIOUS BUILDING SUPPLIES OR CHEMICALS WITHIN THE DRIP LINE.



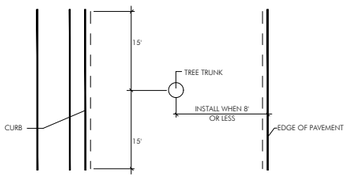
PLANT BED EDGING DETAIL
N.T.S.



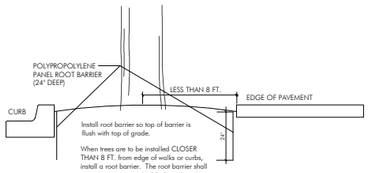
SHRUB SPACING DIAGRAM
N.T.S.



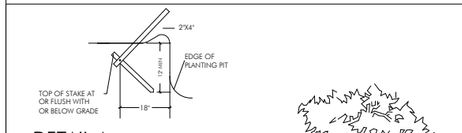
SHRUB INSTALLATION DETAIL
N.T.S.



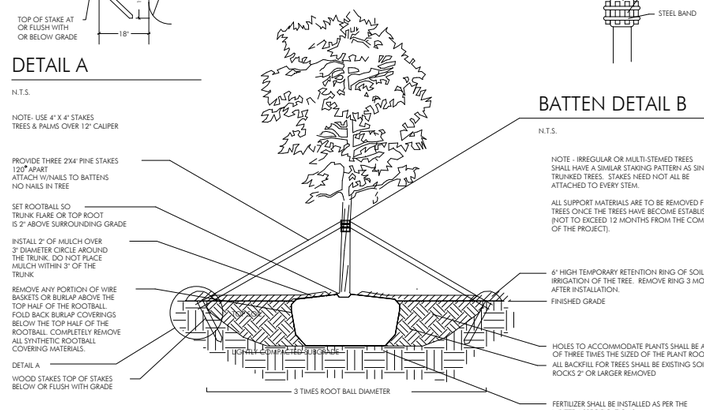
PLAN VIEW



ROOT BARRIER INSTALLATION DETAIL
N.T.S.



DETAIL A
N.T.S.

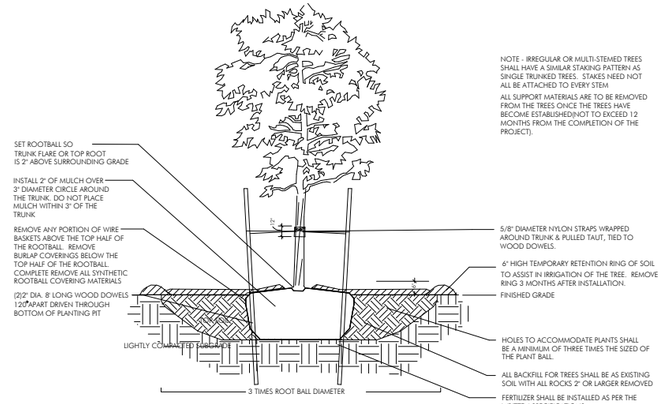


PLANTING & BRACING DETAIL OVER 3 1/2" CALIPER
N.T.S.

BATTEN DETAIL B
N.T.S.

NOTE - IRREGULAR OR MULTI-STEMED TREES SHALL HAVE A SIMILAR STAKING PATTERN AS SINGLE TRUNKED TREES. STAKES NEED NOT ALL BE ATTACHED TO EVERY STEM.

ALL SUPPORT MATERIALS ARE TO BE REMOVED FROM THE TREES ONCE THE TREES HAVE BECOME ESTABLISHED(NOT TO EXCEED 12 MONTHS FROM THE COMPLETION OF THE PROJECT).



NOTE - IRREGULAR OR MULTI-STEMED TREES SHALL HAVE A SIMILAR STAKING PATTERN AS SINGLE TRUNKED TREES. STAKES NEED NOT ALL BE ATTACHED TO EVERY STEM
ALL SUPPORT MATERIALS ARE TO BE REMOVED FROM THE TREES ONCE THE TREES HAVE BECOME ESTABLISHED(NOT TO EXCEED 12 MONTHS FROM THE COMPLETION OF THE PROJECT).

PLANTING & BRACING DETAIL UNDER 3 1/2" CALIPER
N.T.S.

MIAMI–DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
FRANJO ROAD
FROM OLD CUTLER ROAD TO SW 184TH STREET
PROJECT NO. 215615952 SHEET LA-34 OF 35

PLOTTED BY: KERL SEMLER DATE: 12/14/2022 1:54 PM
CREATED: 2022-12-14 - G:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\DGLA SHEETS.DWG

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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Coral Gables, Florida 33134
www.stantec.com

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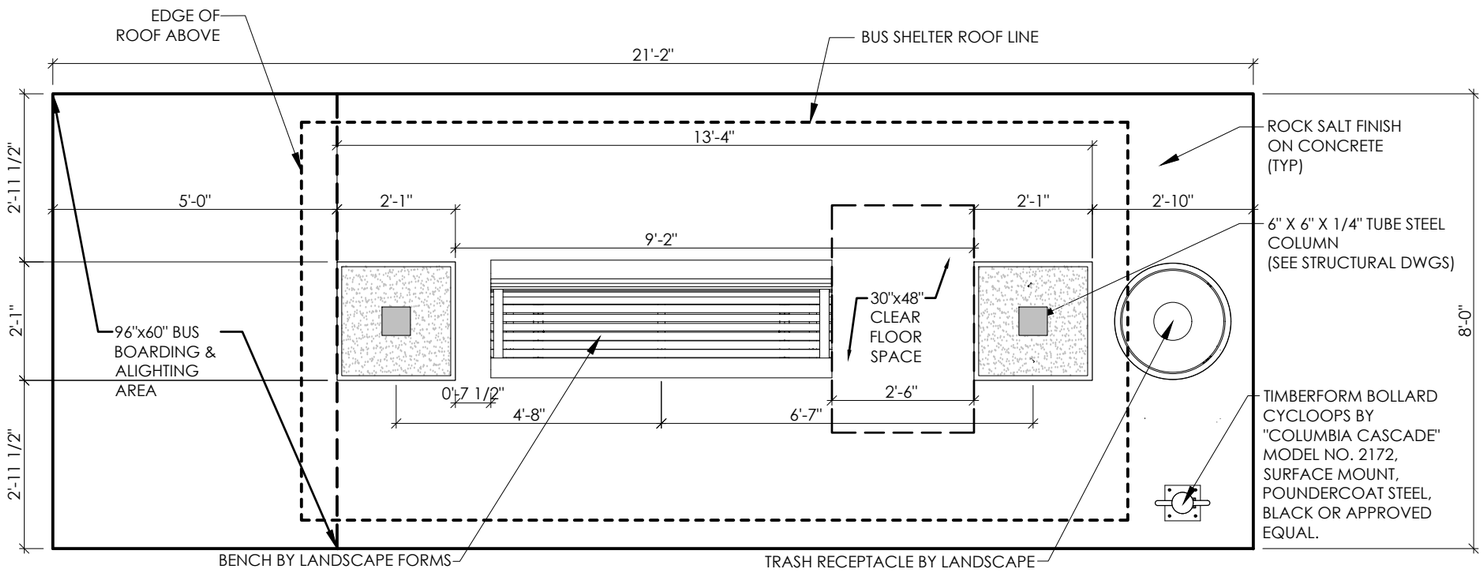
	NAME	DATE		NAME	DATE
DESIGNED BY	C.G.	2-10-2022	DRAWN BY		
CHECKED BY	K.S.	2-10-2022	CHECKED BY		

SUPERVISED BY:

MIAMI–DADE
PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

PLANTING SPECS & DETAILS
-FRANJO ROAD - 100% CDs-

NOTE:
FOR CONNECTIONS TO EXISTING SIDEWALKS, REFER TO CIVIL DRAWINGS



1 BUS SHELTER FLOOR PLAN
3/4" = 1'-0"

REVISIONS								
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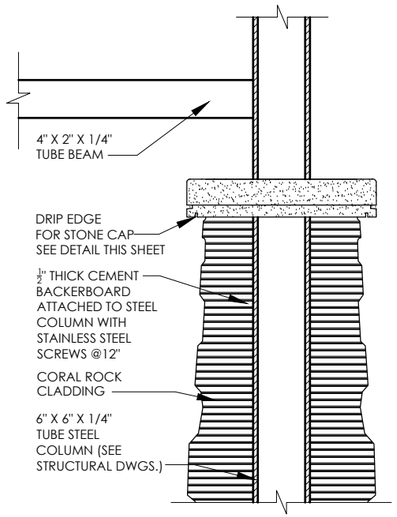
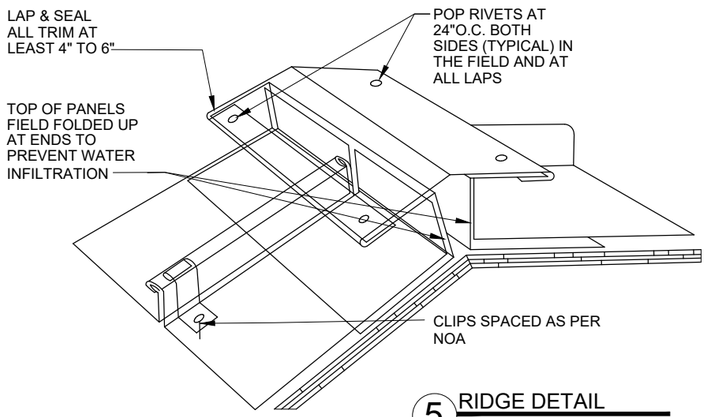
MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST.
MIAMI, FLORIDA 33128

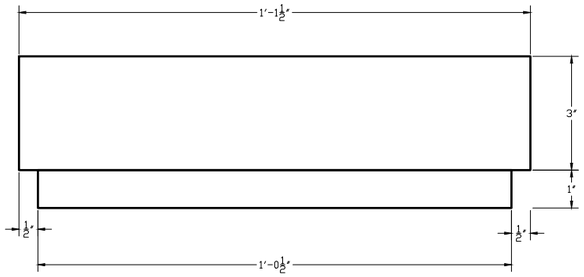
ARCHITECTURAL DETAILS



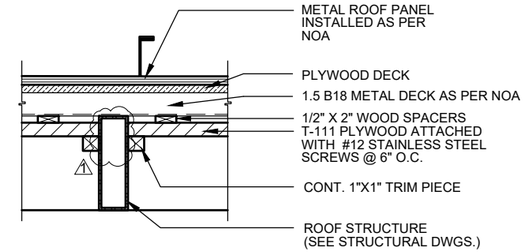
1 COLUMN DETAIL
1 1/2" = 1'-0"



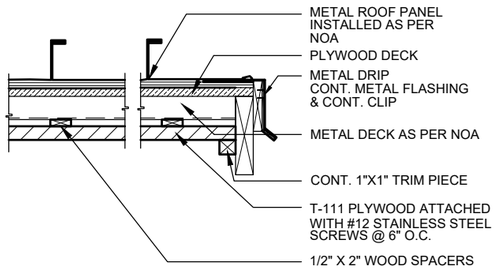
5 RIDGE DETAIL
NTS



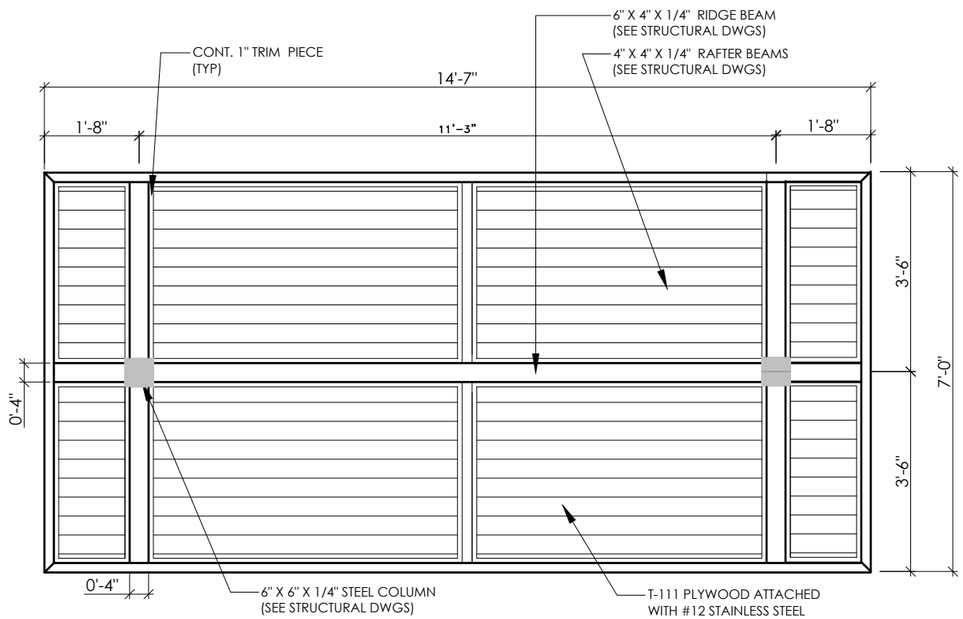
6 STONE CAP DETAIL
NTS



2 ROOF DETAIL
1/2" = 1'-0"



4 ROOF EDGE DETAIL
1/2" = 1'-0"



3 FRAMING PLAN
3/4" = 1'-0"

⚠ MDCPS COMMENTS RHF SC 18.06.21

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HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
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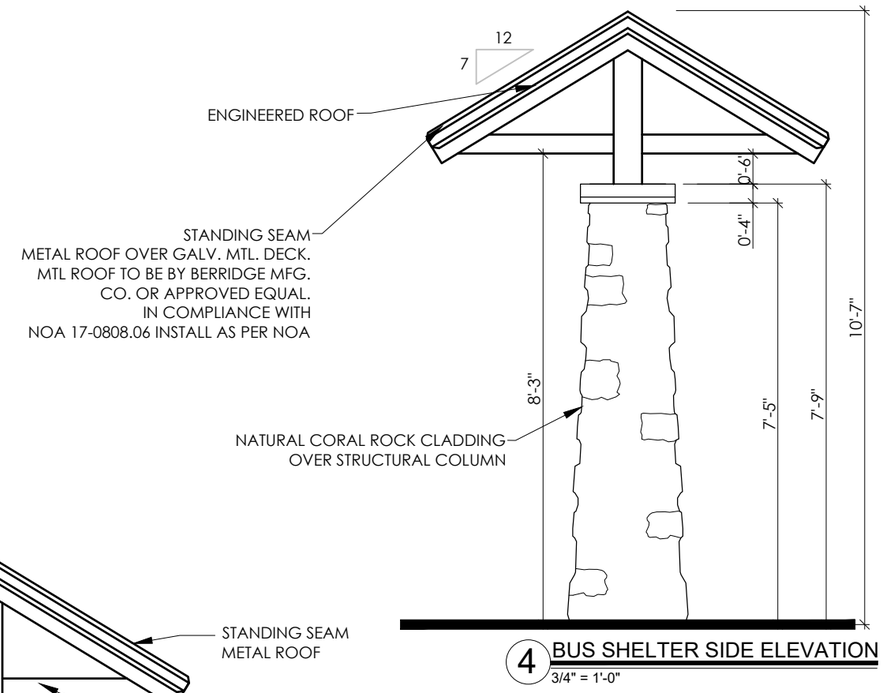
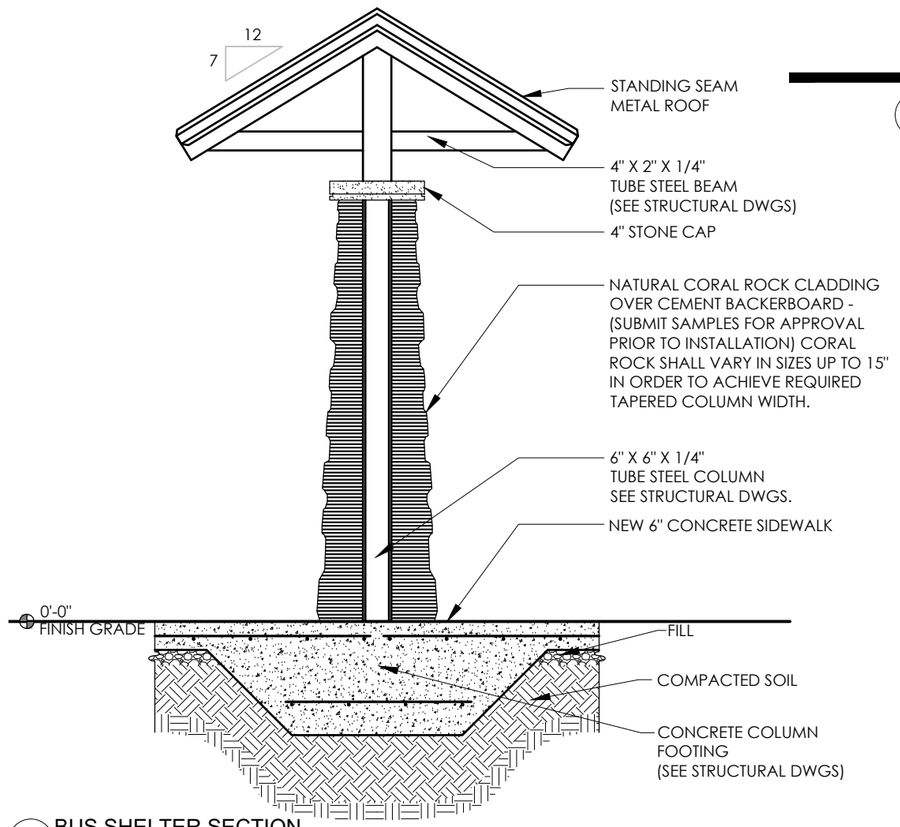
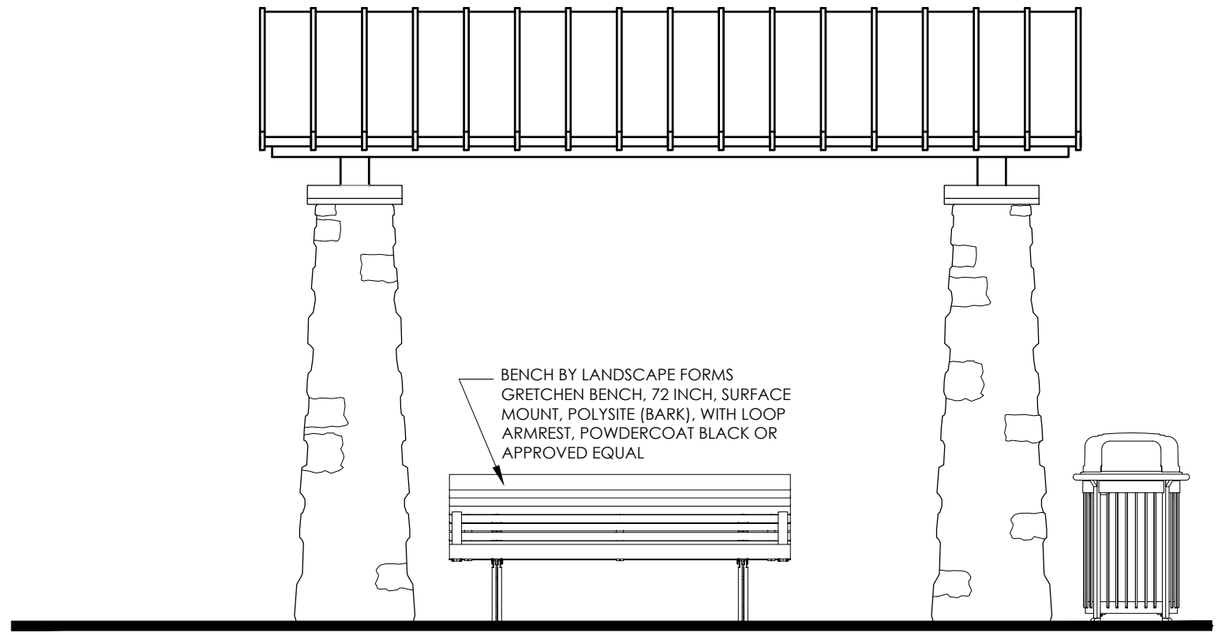


4 BUS SHELTER SIDE ELEVATION
3/4" = 1'-0"



3 BUS SHELTER SECTION
3/4" = 1'-0"



5 BUS SHELTER FRONT ELEVATION
3/4" = 1'-0"

REVISIONS

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DESIGNED BY			DRAWN BY		
CHECKED BY			CHECKED BY		
SUPERVISED BY:					

MIAMI-DADE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

ARCHITECTURAL DETAILS

GENERAL NOTES

1. THE GOVERNING CODE FOR THIS PROJECT IS THE **FLORIDA BUILDING CODE, 2020 EDITION**. THIS CODE PRESCRIBES WHICH EDITION OF EACH REFERENCED STANDARD APPLIES TO THIS PROJECT.

2. TO THE BEST OF OUR KNOWLEDGE, THE STRUCTURAL DRAWINGS COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE GOVERNING BUILDING CODE.

3. CONSTRUCTION IS TO COMPLY WITH THE REQUIREMENTS OF THE GOVERNING BUILDING CODE AND ALL OTHER APPLICABLE FEDERAL, STATE, AND LOCAL CODES, STANDARDS, REGULATIONS AND LAWS.

4. THE STRUCTURAL DOCUMENTS ARE TO BE USED IN CONJUNCTION WITH THE CIVIL DOCUMENTS. IF A CONFLICT EXISTS, THE MORE STRINGENT GOVERNS.

5. DETAILS LABELED "TYPICAL" APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED, WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION. QUESTIONS REGARDING THE APPLICABILITY OF TYPICAL DETAILS SHALL BE RESOLVED BY THE ENGINEER.

6. CONTRACTORS WHO DISCOVER DISCREPANCIES, OMISSIONS OR VARIATIONS IN THE CONTRACT DOCUMENTS DURING BIDDING SHALL IMMEDIATELY NOTIFY THE ENGINEER. THE ENGINEER WILL RESOLVE THE CONDITION AND ISSUE A WRITTEN CLARIFICATION.

7. THE GENERAL CONTRACTOR SHALL COORDINATE ALL CONTRACT DOCUMENTS WITH FIELD CONDITIONS AND DIMENSIONS AND PROJECT SHOP DRAWINGS PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWINGS; USE ONLY PRINTED DIMENSIONS. REPORT ANY DISCREPANCIES IN WRITING TO THE ENGINEER PRIOR TO PROCEEDING WITH WORK. DO NOT CHANGE SIZE OR LOCATION OF STRUCTURAL MEMBERS WITHOUT WRITTEN INSTRUCTIONS FROM THE STRUCTURAL ENGINEER OF RECORD.

8. THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTY, HIS OWN WORK AND THE PUBLIC FROM HARM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, AND JOBSITE SAFETY INCLUDING ALL OSHA REQUIREMENTS.

9. THE STRUCTURE IS DESIGNED TO BE STRUCTURALLY SOUND WHEN COMPLETED. PRIOR TO COMPLETION, THE CONTRACTOR IS RESPONSIBLE FOR STABILITY AND TEMPORARY BRACING, INCLUDING, BUT NOT LIMITED TO, MASONRY WALLS. WHEREVER THE CONTRACTOR IS UNSURE OF THESE REQUIREMENTS, THE CONTRACTOR SHALL RETAIN AN ENGINEER LICENSED IN THE STATE WHERE THIS PROJECT IS LOCATED TO DESIGN AND INSPECT THE TEMPORARY BRACING AND STABILITY OF THE STRUCTURE.

10. DESIGN WIND LOADS

a. GOVERNING CODE	ASCE 7-16
b. BUILDING RISK CATEGORY	**II**
c. ULTIMATE DESIGN WIND SPEED	VULT = **175 MPH** (3 SECOND GUST)
d. NOMINAL DESIGN WIND SPEED	VASD = **136 MPH** (3 SECOND GUST)
e. MEAN ROOF HEIGHT	**5** FEET
f. DIRECTIONALITY FACTOR	KD = **0.85**
g. TOPOGRAPHIC FACTOR	KZT = **1.0**
h. EXPOSURE	**C**
i. ENCLOSURE CLASSIFICATION	**OPEN**
INTERNAL PRESSURE COEFFICIENT	GCPI = **0**

SHOP DRAWINGS

1. TWENTY WORKING DAYS PRIOR TO SUBMITTING SHOP DRAWINGS, THE CONTRACTOR SHALL SUBMIT FOR EOR'S REVIEW A SCHEDULE WHICH DETAILS THE ESTIMATED QUANTITY OF SHOP DRAWINGS AND THE DATE THE SHOP DRAWINGS WILL BE RECEIVED BY THE ARCHITECT. THE EOR SHALL HAVE THE OPPORTUNITY TO REVIEW THE PROPOSED SCHEDULE AND SUBMIT COMMENTS TO THE CONTRACTOR. THE FINAL SHOP DRAWING SCHEDULE SHALL BE DEVELOPED AND SUBMITTED TO THE EOR. IN ACCORDANCE WITH THE SHOP DRAWING SCHEDULE, THE EOR WILL RETURN THE SHOP DRAWING ITEMS WITHIN **TEN** WORKING DAYS, UNLESS OTHERWISE NEGOTIATED BETWEEN STANTEC AND THE CLIENT, AFTER HAVING RECEIVED THE ELECTRONIC SHOP DRAWING.

2. SUBMIT SPECIFIC COMPONENTS, SUCH AS COLUMNS, FOOTINGS, ETC., IN A SINGLE PACKAGE. SUBMIT SIMILAR FLOORS TOGETHER.

3. ON FIRST SUBMITTAL, CLEARLY FLAG AND CLOUD ALL DIFFERENCES FROM THE CONTRACT DOCUMENTS. ON RESUBMITTALS, FLAG AND CLOUD ALL CHANGES AND ADDITIONS TO PREVIOUS SUBMITTAL; ONLY CLOUDED ITEMS WILL BE REVIEWED.

4. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING DIMENSIONS AT THE JOB SITES, FOR TOLERANCES, CLEARANCES, QUANTITIES, FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATION OF THE WORK WITH OTHER TRADES AND FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS.

5. THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER SHALL REVIEW AND APPROVE SUBMITTALS AND SHALL SIGN AND DATE EACH DRAWING PRIOR TO SUBMITTING TO THE ARCHITECT. THIS APPROVAL IS TO CONFIRM THAT THE SUBMITTAL IS COMPLETE, COMPLIES WITH THE SUBMITTAL REQUIREMENTS AND IS COORDINATED WITH FIELD DIMENSIONS, OTHER TRADES, ERECTION SEQUENCING AND CONSTRUCTABILITY.

6. THE STRUCTURAL ENGINEER REVIEWS SUBMITTALS TO CONFIRM THAT THE SUBMITTAL IS IN GENERAL CONFORMANCE WITH THE DESIGN CONCEPT PRESENTED IN THE CONTRACT DOCUMENTS. QUANTITIES AND DIMENSIONS ARE NOT CHECKED. NOTATIONS ON SUBMITTALS DO NOT AUTHORIZE CHANGES TO THE CONTRACT SUM. CHECKING OF THE SUBMITTAL BY THE STRUCTURAL ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DEVIATIONS FROM THE CONTRACT DOCUMENTS AND FROM ERRORS OR OMISSIONS IN THE SUBMITTAL.

A. THE CONTRACTOR MAY REQUEST CAD FILES OF THE STRUCTURAL DRAWINGS, WHICH MAY BE PROVIDED - AT THE STRUCTURAL ENGINEER'S DISCRETION - UPON A WRITTEN AGREEMENT BETWEEN THE STRUCTURAL ENGINEER AND THE GENERAL CONTRACTOR.

8. THE FOLLOWING ITEMS ARE SHOP DRAWINGS THAT SHALL BE SUBMITTED FOR REVIEW:

a. REINFORCING STEEL
b. CONCRETE/GROUT MIXES
c. COMPACTION REPORTS
d. PRODUCT DATA/ACCESSORIES
e. EMBEDDED ITEMS
f. UTILITY PENETRATIONS THROUGH STRUCTURAL MEMBERS
g. EMBEDDED UTILITIES IN STRUCTURAL MEMBERS

SHALLOW FOUNDATIONS

1. FOOTING SIZES AND REINFORCING ARE BASES ON AN ASSUMED ALLOWABLE SOIL BEARING CAPACITY OF **2,000 PSF**. ALL FOOTINGS SHALL BEAR ON NATURAL SOIL OR ROCK COMPACTED TO 98% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR ASTM D-1557.

2. SUBGRADE PREPARATION SHALL BE FIELD CONTROLLED AND TESTED. PROVIDE COMPACTION REPORTS TO THE ENGINEER FOR RECORD.

3. CENTER ALL FOOTINGS UNDER THEIR RESPECTIVE COLUMNS OR WALLS, UNO.

EXCAVATION, BACKFILL AND DEWATERING

1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT AND OSHA REGULATIONS. DO NOT EXCAVATE WITHIN ONE FOOT OF THE ANGLE OF REPOSE OF ANY SOIL BEARING FOUNDATION UNLESS THE FOUNDATION IS PROPERLY AGAINST SETTLEMENT.

2. DO NOT BACKFILL AGAINST WALLS UNTIL 7 DAYS AFTER THE WALLS ARE BRACED BY THE STRUCTURE OR ARE TEMPORARY BRACED. DO NOT BACKFILL CANTILEVERED RETAINING WALLS UNTIL CONCRETE IS 3 DAYS OLD. DO NOT BACKFILL UNTIL AFTER COMPLETION AND INSPECTION OF ANY WATERPROOFING.

3. THE CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ALL ACCUMULATED WATER IN A MANNER THAT DOES NOT INCONVENIENCE OR DAMAGE THE WORK.

REINFORCED CONCRETE

1. COMPLY WITH ACI 301 AND 318.

2. PROVIDE STRUCTURAL CONCRETE WITH A MINIMUM ULTIMATE COMPRESSIVE DESIGN STRENGTH OF 4000 PSI IN 28 DAYS.

3. USE NORMAL WEIGHT CONCRETE FOR ALL STRUCTURAL MEMBERS UNO.

4. THE USE OF CALCIUM CHLORIDE AND/OR OTHER CHLORIDE CONTAINING AGENTS IN CONCRETE IS PROHIBITED.

5. CONCRETE MIXES SHALL USE LARGEST COARSE AGGREGATE PRACTICAL FOR MEMBERS BEING CAST.

6. PROVIDE ASTM A-615 GRADE 60 REINFORCING STEEL. REINFORCING SHALL BE ACCURATELY PLACED, RIGIDLY SUPPORTED AND FIRMLY TIED IN PLACE, WITH APPROPRIATE BAR SUPPORTS AND SPACERS. LAP CONTINUOUS REINFORCING 48 BAR DIA. PROVIDE COVER OVER REINFORCING AS FOLLOWS:

ELEMENT	BOTTOM	TOP	SIDES
FOOTINGS AND PILE CAPS	3"	2"	3"
BEAMS ABOVE GRADE	1 1/2"	1 1/2"	1 1/2"
COLUMNS	-	-	1 1/2"
SLABS ON GRADE	2"	1"	2"
SLABS ABOVE GRADE	3/4"	3/4"	1"
SLABS EXPOSED TO WEATHER	1 1/2"	1 1/2"	1 1/2"
WALLS RETAINING FILL	-	-	2"
WALLS EXPOSED TO WEATHER	-	-	1 1/2"
WALLS - ALL OTHERS	-	-	1"

7. UTILITIES SHALL NOT PENETRATE BEAMS OR COLUMNS BUT MAY PASS THROUGH SLABS AND WALLS INDIVIDUALLY, UNO. FOR OPENINGS 24" LONG OR LESS, CUT REINFORCING AND REPLACE ALONGSIDE OPENING WITH SPLICE BARS OF EQUIVALENT AREA WITH 48 BAR DIA. LAP. PREPARE AND SUBMIT SHOP DRAWINGS FOR OPENINGS LONGER THAN 24". FOR RECTANGULAR OPENINGS 12" LONG OR LONGER, ADD 1#5 X 6' MID DEPTH DIAGONAL AT ALL 4 CORNERS.

8. WHERE REINFORCING STEEL CONGESTION PERMITS, CONDUIT AND PIPES UP TO 1" DIAMETER MAY BE EMBEDDED IN CONCRETE PER ACI 318, SECTIONS 20.7 AND 26.8. SPACE AT 3 DIAMETERS O/C. PLACE BETWEEN OUTER LAYERS OF REINFORCING. IF CONDUITS ARE SIGNIFICANTLY CONGESTED, ADDITIONAL REINFORCING PERPENDICULAR TO PIPING MAY BE REQUIRED. REQUESTS TO EMBED LARGER PIPES SHOULD BE ACCOMPANIED BY A DETAILED DESCRIPTION AND BE SUBMITTED TO THE ARCHITECT FOR EVALUATION.

9. PROVIDE 3/4" CHAMFER FOR ALL EXPOSED CORNERS.

10. PROVIDE REINFORCING STEEL PLACER WITH A SET OF STRUCTURAL DRAWINGS FOR FIELD REFERENCE. INSPECT REINFORCING STEEL PLACING FROM STRUCTURAL DRAWINGS.

11. SUBMIT SHOP DRAWINGS FOR ALL CONCRETE MIXES INDICATING CONCRETE STRENGTH, SPECIFICATIONS FOR ADMIXTURES, PROPOSED LOCATIONS OF USE AND AMOUNTS OF MIXING WATER TO BE WITHHELD FOR LATER ADDITION AT PROJECT SITE. DO NOT ADD AIR ENTRAINING ADMIXTURES FOR SLABS ON GRADE.

12. SUBMIT STEEL REINFORCEMENT SHOP DRAWINGS THAT DETAIL FABRICATION, BENDING AND PLACEMENT. INCLUDE BAR SIZES, LENGTHS, SPACING, MATERIAL GRADE, BAR SCHEDULES, BENT BAR DIAGRAMS, BAR ARRANGEMENT, SPLICES AND LAPS, MECHANICAL CONNECTIONS AND SUPPORTS FOR CONCRETE REINFORCEMENT.

13. TEST COMPOSITE SAMPLES OF FRESH CONCRETE OBTAINED ACCORDING TO ASTM C172:

a. OBTAIN AT LEAST ONE COMPOSITE SAMPLE FOR EACH 100 CU. YD. OR FRACTION THEREOF OF EACH CONCRETE MIXTURE PLACED EACH DAY.
b. OBTAIN ONE SLUMP TEST AT POINT OF PLACEMENT FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE. COMPLY WITH ASTM C143.
c. CAST AND LABORATORY CURE TWO SETS OF TWO STANDARD SPECIMENS FOR EACH COMPOSITE SAMPLE.
d. CAST AND FIELD CURE TWO SETS OF TWO STANDARD CYLINDER SPECIMENS FOR EACH COMPOSITE SAMPLE.
e. TEST ONE LABORATORY-CURED SPECIMEN AT 7 DAYS AND THREE AT 28 DAYS. IF ONE OF THE FIRST TWO 28 DAY TESTS FALLS BELOW SPECIFIED STRENGTH, TEST THE REMAINING SPECIMEN AT 56 DAYS.
f. WHEN STRENGTH OF FIELD-CURED CYLINDERS IS LESS THAN 85 PERCENT OF COMPANION LABORATORY-CURED CYLINDERS, CONTRACTOR SHALL EVALUATE OPERATIONS AND PROVIDE CORRECTIVE PROCEDURES FOR PROTECTING AND CURING IN-PLACE CONCRETE.
g. TEST RESULTS SHALL BE REPORTED IN WRITING TO ARCHITECT, CONCRETE MANUFACTURER, AND CONTRACTOR WITHIN 48 HOURS OF TESTING.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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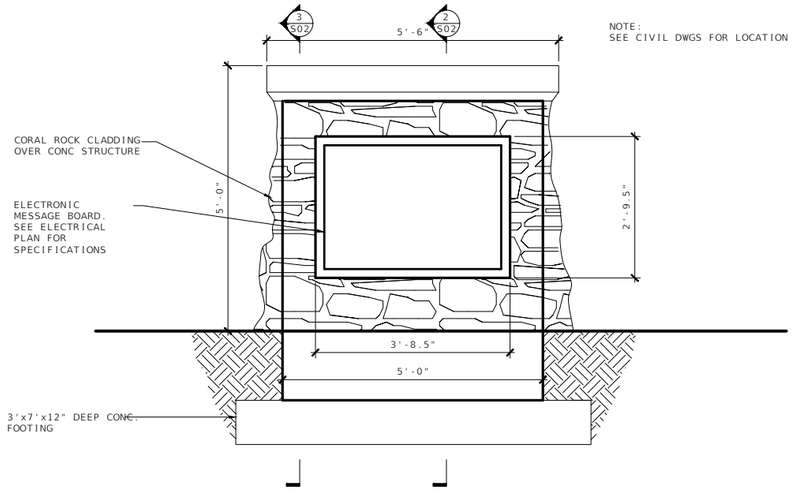
CHECKED BY	PG	09/27/21	CHECKED BY	PG	09/27/21
SUPERVISED BY:	PG				

MIAMI-DADE COUNTY

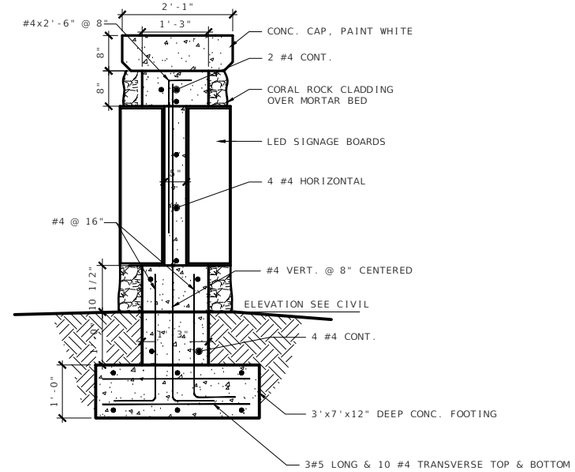
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

STRUCTURAL DETAILS

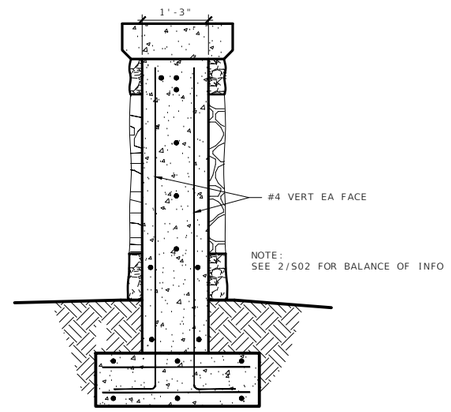


1 MESSAGE BOARD ELEVATIONS
SCALE: 3/4" = 1'-0"

NOTES:
1. THICKNESS OF MORTAR VARIES DUE TO SIZE OF ROCKS. MORTAR SHOULD BE STRUCK AND SHALL BE NO MORE THAN 1" AND NO LESS THAN 1/2".
2. ROCK SIZES SHALL VARY AND BE NO MORE THAN 18" AND NO LESS THAN 4" (MAXIMUM DIMENSIONS).
3. CONTRACTOR TO COORDINATE THIS WORK WITH ELECTRICAL & TELEPHONE PROVISIONS AS SHOWN ON ELECTRICAL LIGHTING PLANS.



2 MESSAGE BOARD SECTION AT MIDDLE
SCALE: 3/4" = 1'-0"



3 MESSAGE BOARD SECTION AT ENDS
SCALE: 3/4" = 1'-0"

REVISIONS								
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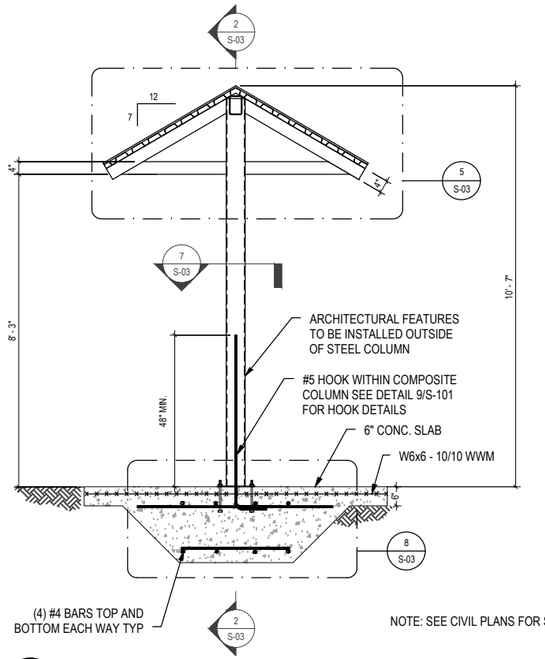
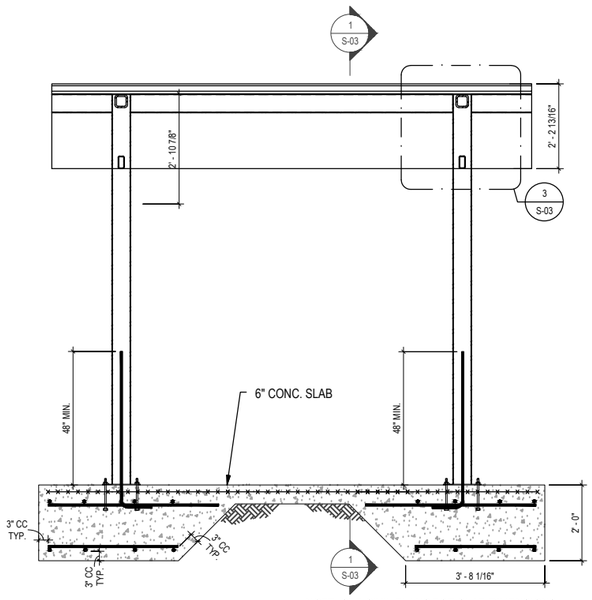
STRUCTURAL DETAILS



NOTE: CONCRETE SLAB / SIDEWALK AND FOOTING SHALL BE POURED MONOLITHICALLY

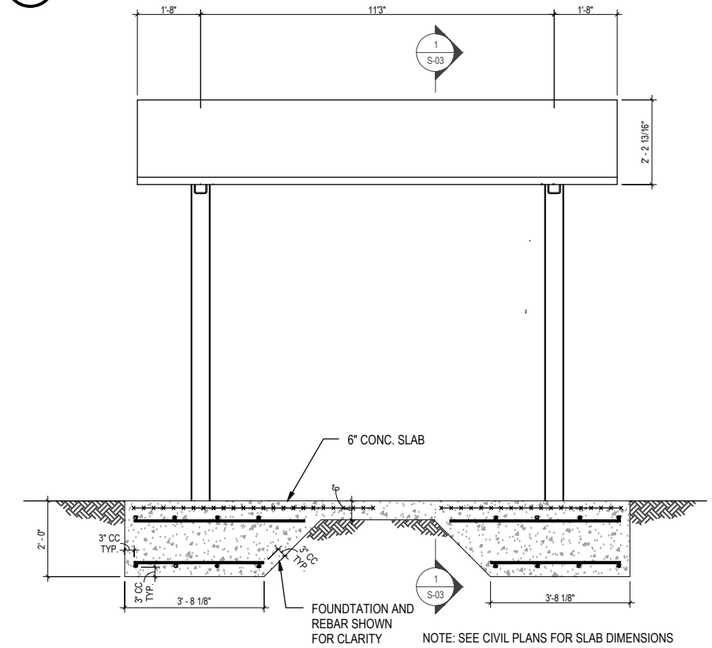
NOTE: SEE CIVIL PLANS FOR SLAB DIMENSIONS

1 S-03 SIDE - SECTION CUT
1/2" = 1'-0"



NOTE: SEE CIVIL PLANS FOR SLAB DIMENSIONS

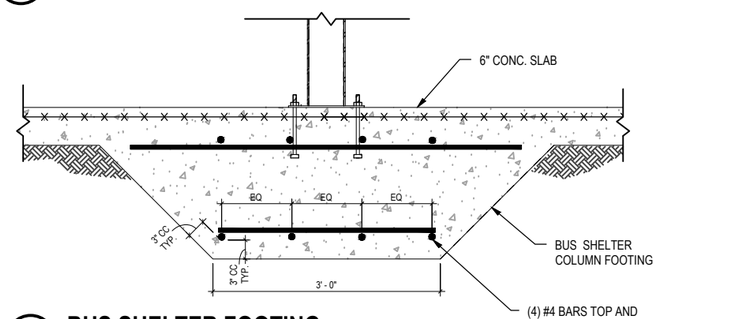
2 S-03 SOUTH SECTION CUT
1/2" = 1'-0"



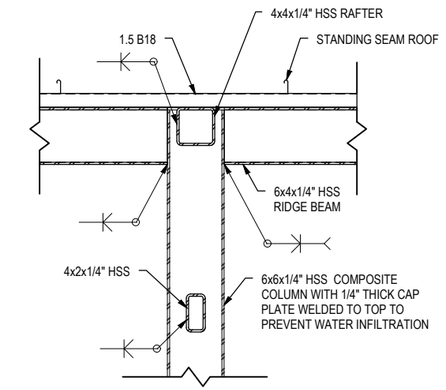
NOTE: SEE CIVIL PLANS FOR SLAB DIMENSIONS

4 S-03 SOUTH ELEVATION
1/2" = 1'-0"

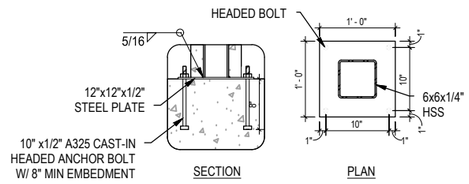
5 S-03 ENLARGED SECTION
1" = 1'-0"



8 S-03 BUS SHELTER FOOTING
1" = 1'-0"

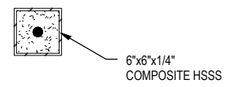


3 S-03 ENLARGED SECTION CUT
1 1/2" = 1'-0"

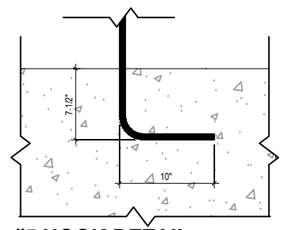


6 S-03 ANCHOR PLATE
1" = 1'-0"

NOTE: STEEL PLATES FOR LARGE BUS SHELTER SHALL BE 12" x 12" x 3/4"



7 S-03 COMPOSITE COLUMN
1 1/2" = 1'-0"



9 S-03 #5 HOOK DETAIL
1 1/2" = 1'-0"

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HIGHWAY DIVISION
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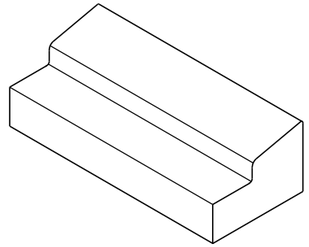
STRUCTURAL DETAILS

GENERAL NOTES:

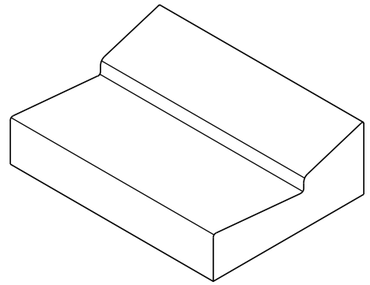
1. For curb, gutter and curb & gutter provide ⅛" – ¼" contraction joints at 10' centers (max.). Contraction joints adjacent to concrete pavement on tangents and flat curves are to match the pavement joints, with intermediate joints not to exceed 10' centers.

2. Locate expansion joints for curb, gutter and curb & gutter in accordance with Specification 520.

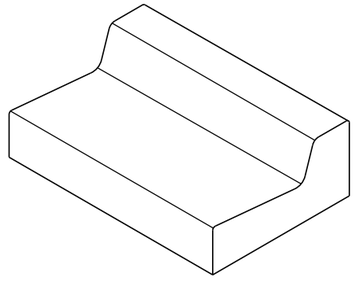
TABLE OF CONTENTS:



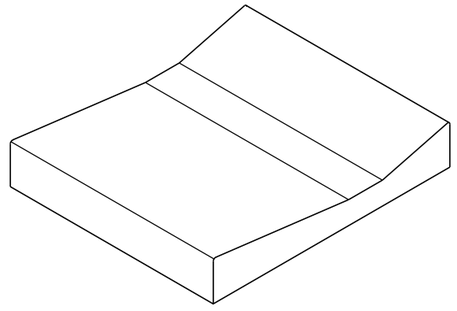
TYPE A



TYPE E

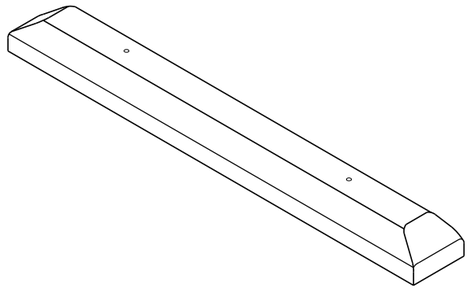


TYPE F



SHOULDER GUTTER

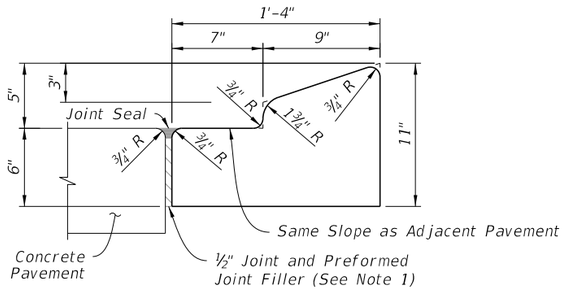
TYPE A, TYPE E, TYPE F, AND SHOULDER GUTTER
(Other Types Similar)



CONCRETE BUMPER GUARD

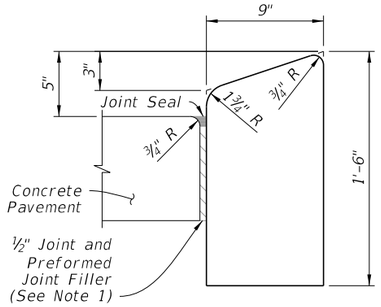
9/21/2021 2:33:06 PM

LAST REVISION	REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	CURB AND GUTTER	INDEX	SHEET
11/01/21						520-001	1 of 3



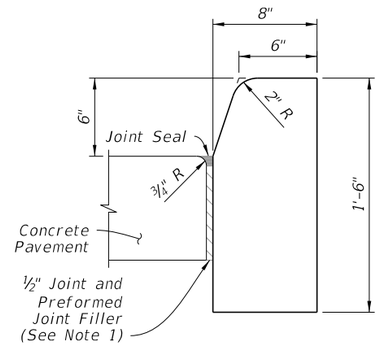
NOTE: For use adjacent to concrete or flexible pavement, concrete shown (See Note 4).

TYPE A



NOTE: For use adjacent to concrete or flexible pavement, concrete shown.

TYPE B

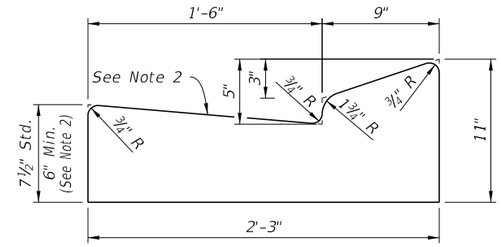


NOTE: For use adjacent to concrete or flexible pavement, concrete shown.

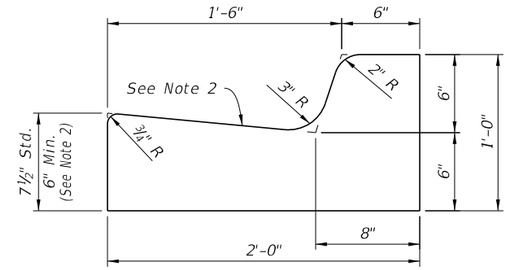
TYPE D

NOTES:

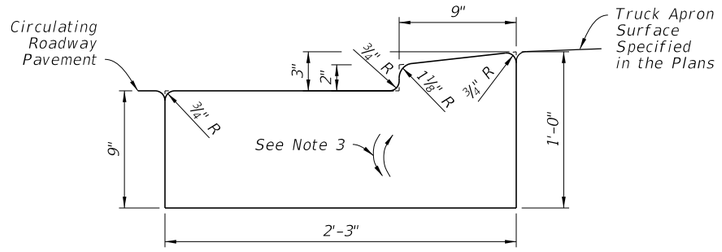
1. For Type A, Type B, and Type D Curb: Expansion joint, preformed joint filler and joint seal are required between curbs and concrete pavement only, see Sheet 3.
2. For Type E, Type F, Drop Curb, and Valley Gutter: When used on high side of roadways, match the cross slope of the gutter to the cross slope of the adjacent pavement. The thickness of the lip is 6", unless otherwise shown on Plans.
3. For Type RA, rotate entire section so that gutter cross slope matches slope of adjacent circulating roadway pavement.
4. For details depicting usage of Type A Curb adjacent to flexible pavement see Sheet 3.



TYPE E

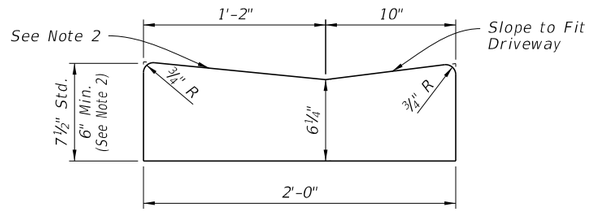


TYPE F

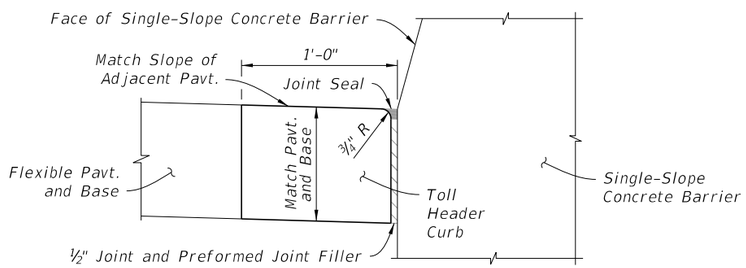


NOTE: Traffic Bearing Sections for use in Roundabout Central Island Construction.

TYPE RA

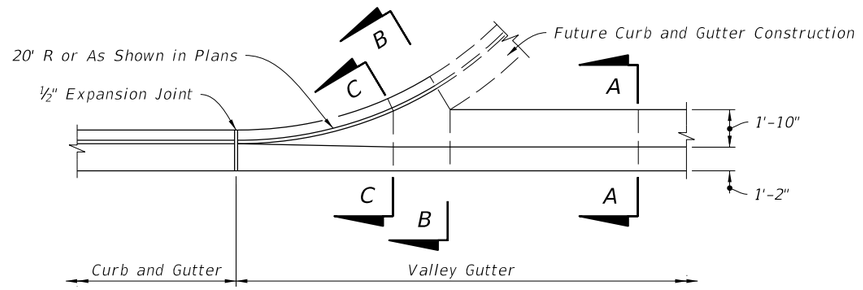


DROP CURB

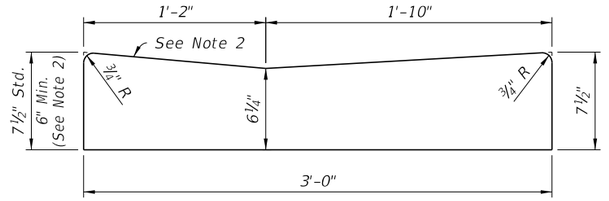


NOTE: See the toll site details for conduit requirements.

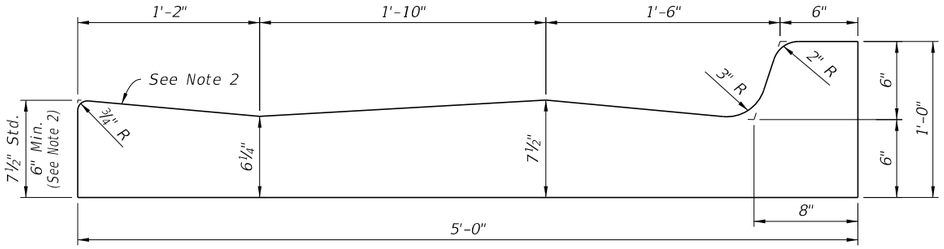
TOLL HEADER CURB



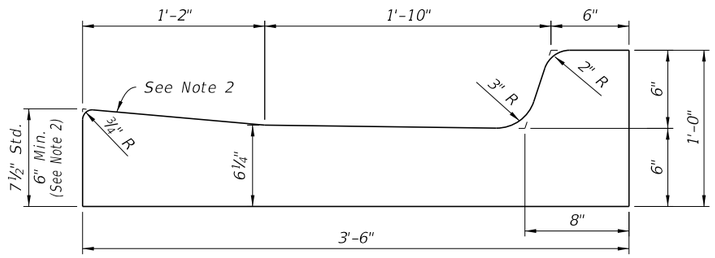
PLAN VIEW



SECTION A-A

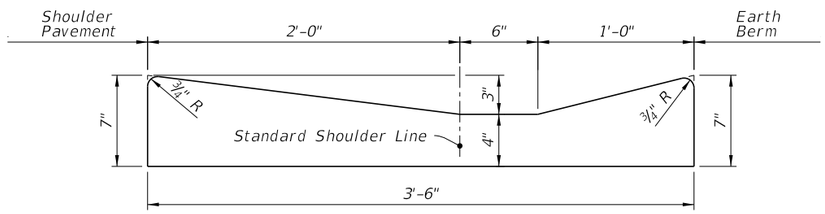


SECTION B-B



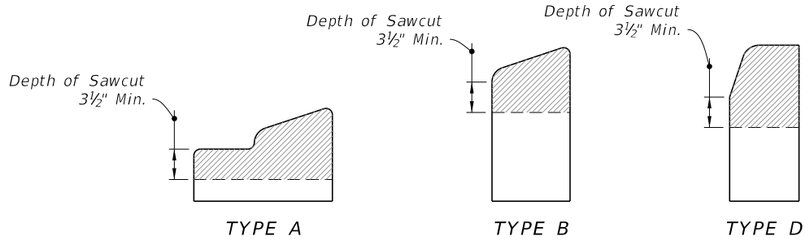
SECTION C-C

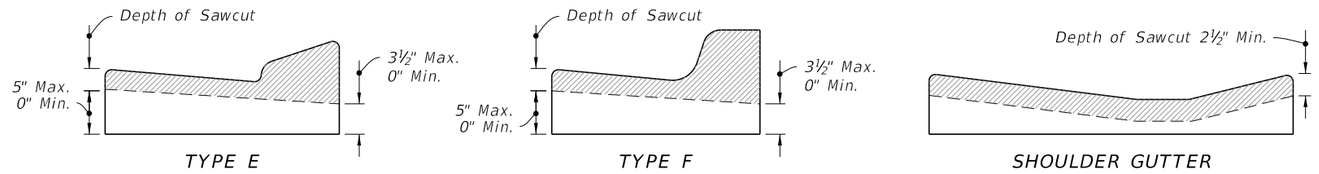
VALLEY GUTTER



SHOULDER GUTTER

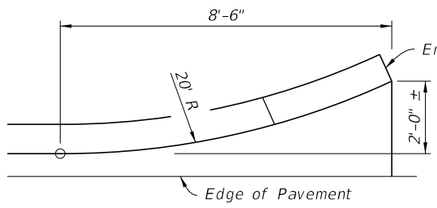
CONCRETE CURB AND GUTTER

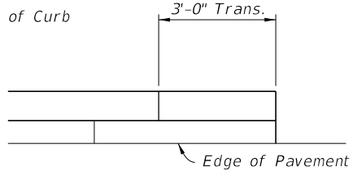


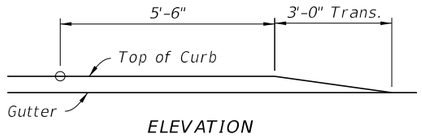


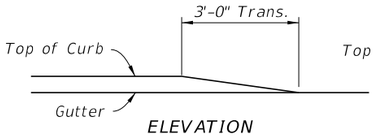
NOTE: Sawcuts should be avoided within valley gutter and within curb and gutter endings.

CONTRACTION JOINTS IN CURB



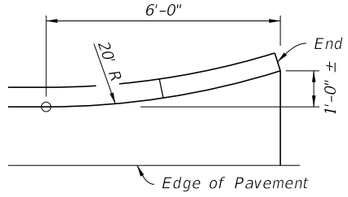


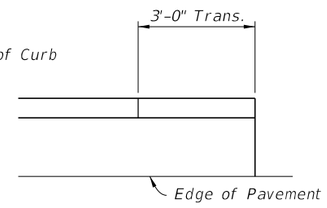


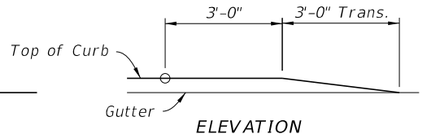


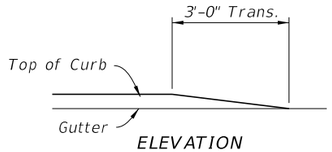
CURB TYPE A

CONTRACTION JOINTS IN CURB & GUTTER





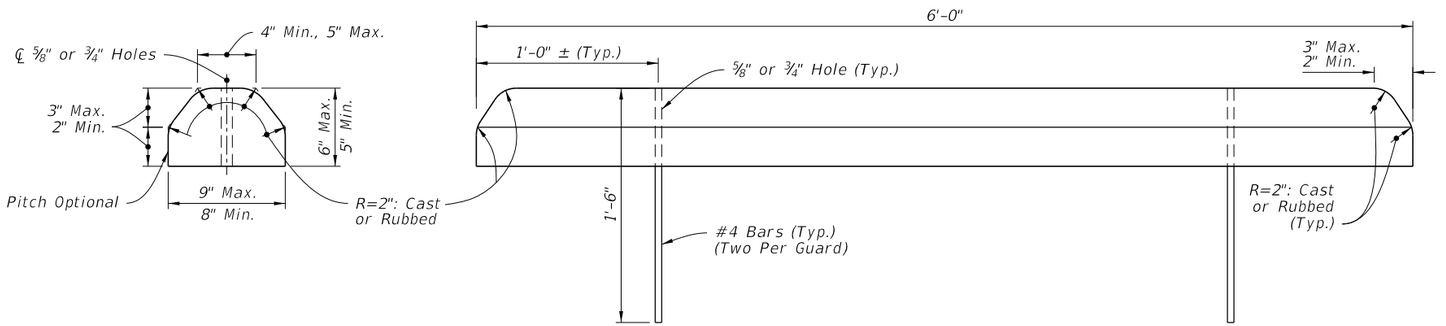




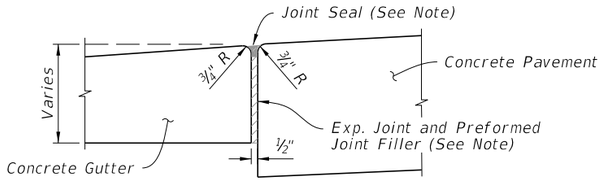
CURB AND GUTTER TYPE E AND TYPE F

NOTE: Ends of Type B and D Curb transition from full to zero heights in 3 ft.

CURB AND CURB & GUTTER ENDINGS

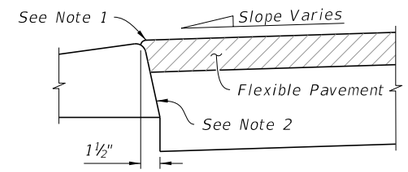


CONCRETE BUMPER GUARD



NOTE: Joint Seal application applies to both high and low sides of pavement, low side shown.

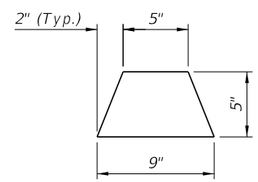
EXPANSION JOINT BETWEEN GUTTER AND CONCRETE PAVEMENT



NOTES:

1. Surface on Low Side of Pavement to be ¼" Above Lip of Gutter. Surface on High Side to be Flush With Lip of Curb or Curb & Gutter.
2. Applies to both high and low sides of pavement, low side shown. Applies to shoulder gutter only where adjoining traffic lanes.

CURB AND GUTTER AND TYPE A CURB ADJACENT TO FLEXIBLE PAVEMENT



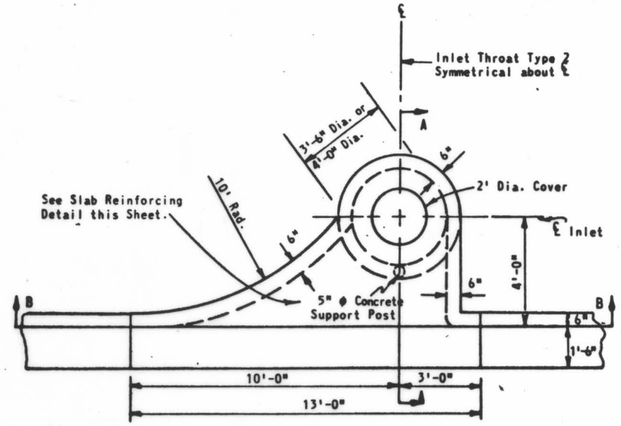
ASPHALTIC CONCRETE CURB

CURB AND GUTTER JOINTS AND ENDINGS, CONCRETE BUMPER GUARD, AND ASPHALTIC CONCRETE CURB

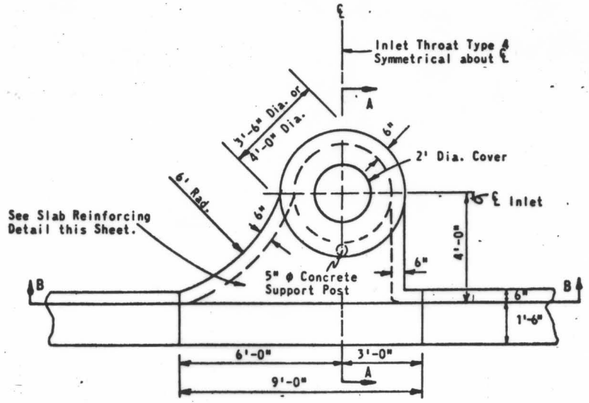
LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/21			FDOT FY 2022-23 STANDARD PLANS	CURB AND GUTTER	520-001	3 of 3

9/21/2021 2:33:07 PM

FED. ROAD DIV. No.	STATE	PROJECT No.	FISCAL YEAR	SHEET No.
9	FLA.			

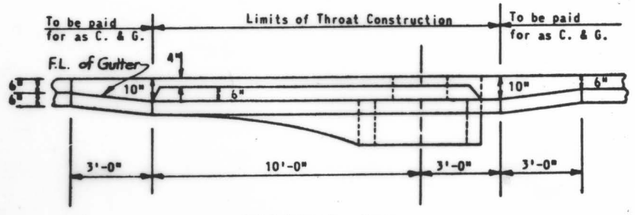


INLET THROAT TYPE 1

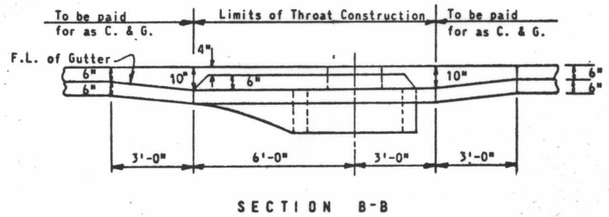


INLET THROAT TYPE 3

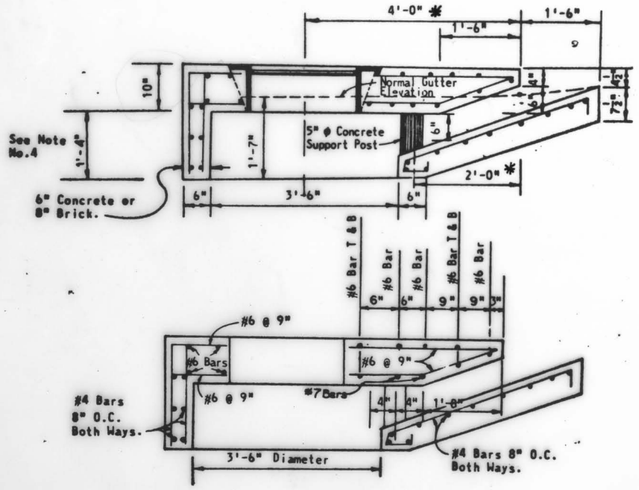
Inlet Throat Type 3
Symmetrical about ℄



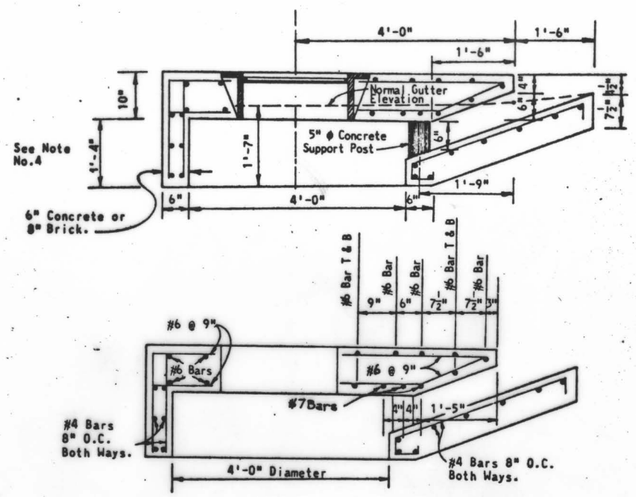
SECTION B-B



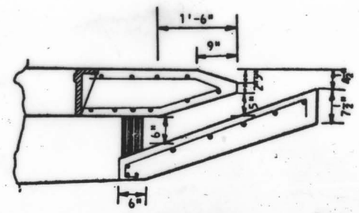
SECTION B-B



3'-6" DIAMETER



4'-0" DIAMETER



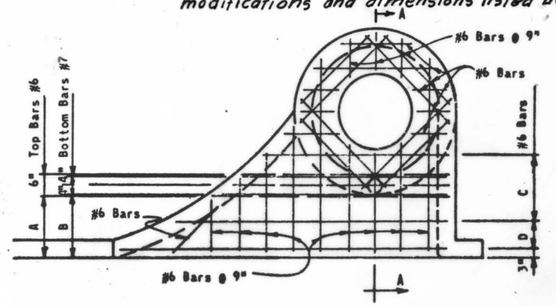
* INLET TOP MODIFICATION
FOR TYPE "E" CURB

* For 5' Sidewalks change 4'-0" To 3'-3" and 2'-0" To 1'-3"

SECTION A-A FOR INLETS TYPE 1, 2, 3 & 4

GENERAL NOTES

1. The finished grade and slope of the inlet tops are to conform with the finished cross slope and grade of the proposed sidewalk and/or parkway.
2. When inlets are to be constructed on a curve, refer to the plans to determine the radius and, where necessary, modify the inlet details accordingly. Bend steel when necessary.
3. All steel in throats shall have 1½" minimum cover unless otherwise shown. Inlet throats shall be either cast-in-place or precast concrete.
4. The rear wall portion of throat Types 1, 2, 3 & 4 may be constructed with brick. Dowels to top slab required.
5. Only round concrete support post will be acceptable.
6. For supplemental details see index no. DSD-01.
7. These inlet throats were designed for use with std. curb & gutter and Type E curb. Locate outside of pedestrian cross traffic if possible.
8. For 5' sidewalks the contractor must utilize a 3'-6", See modifications and dimensions listed below.



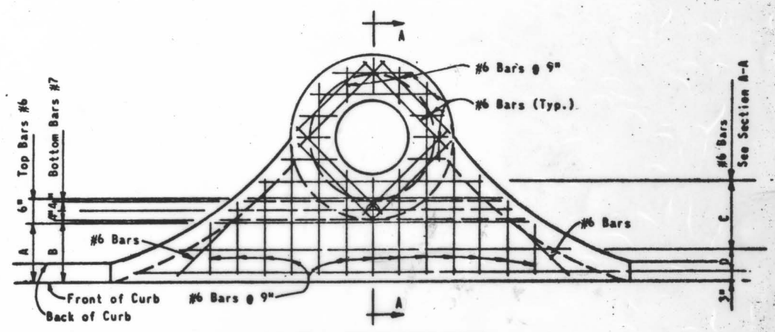


TABLE OF VARIABLE DIMENSIONS		
DIMENSION	3'-6"	4'-0"
A	1'-9"	1'-6"
B	1'-8"	1'-5"
C	1'-0"	1'-10⅝"
D	9"	7½"

SLAB REINFORCING DETAILS
INLETS 1, 2, 3 & 4

FHWA Approved: 5-1-75

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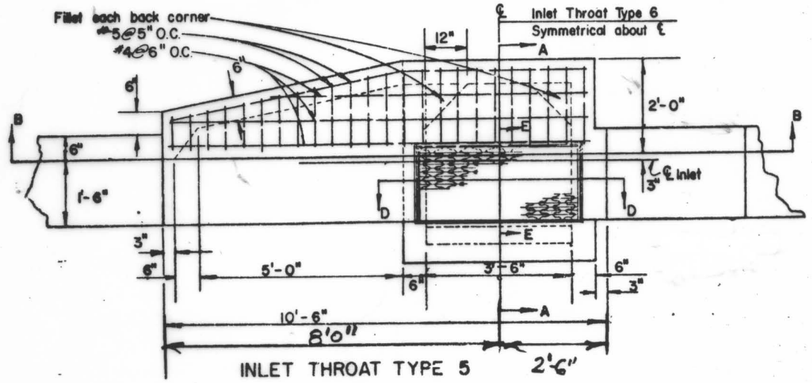
DADE COUNTY PUBLIC WORKS DEPARTMENT
HIGHWAY DIVISION

REVISIONS	
Dates	Descriptions
5-76	Redrawn-Chg'd Index No.

DESIGN	DCI-01
DRAWN	
CHECK	CURB INLET
PROPOSED	TYPES 1,2,3 & 4

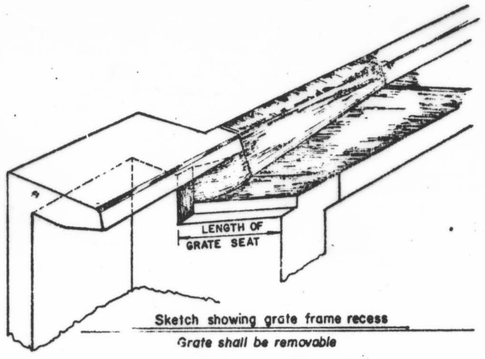
SUBMITTED	RECOMMENDED	APPROVED
HIGHWAY ENGINEER	CHIEF ENGINEER	DIRECTOR
DATE	PROJ	SHEET 1 OF 1

STATE PROJ. NO.	SHEET NO.
66215	



INLET THROAT TYPE 5

Inlet Throat Type 6
Symmetrical about ℄

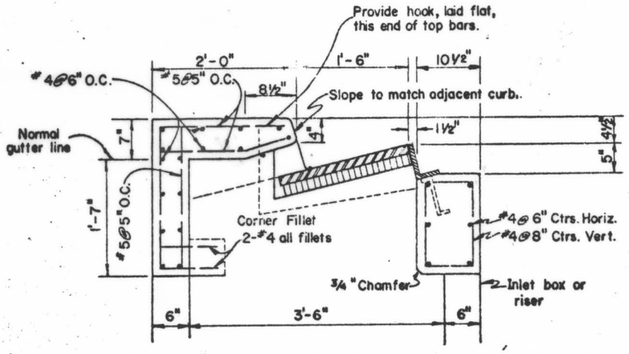


Sketch showing grate frame recess

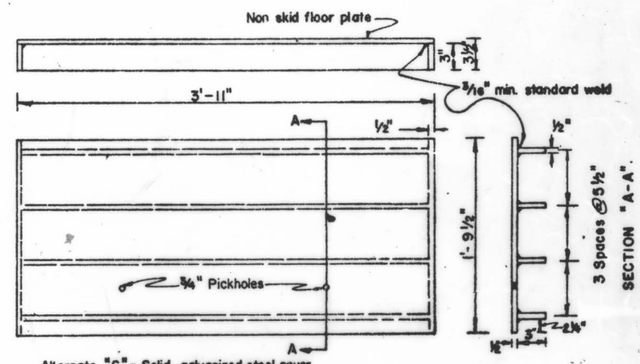
Grate shall be removable

GENERAL NOTES:

1. The finished grade and slope of the inlet tops are to conform with the finished cross slope and grade of the proposed sidewalk and / or parkway.
2. When inlets are to be constructed on a curve, refer to the plans to determine the radius and, where necessary, modify the inlet details accordingly. Bend steel when necessary.
3. All steel in throats shall have 1¼" minimum cover unless otherwise shown. Inlet throats shall be either cast-in-place or precast concrete.
4. The corner fillets shown for rectangular throats (Type 5&6) are necessary only when throats are to be used in conjunction with circular inlet boxes or when used on skew with rectangular inlet boxes.
5. See Index DSD-01 for means of locking grate or cover to inlet.
6. These inlet throats were designed for use with std. curb & gutter and Type E curb. Locate outside of pedestrian cross traffic if possible.

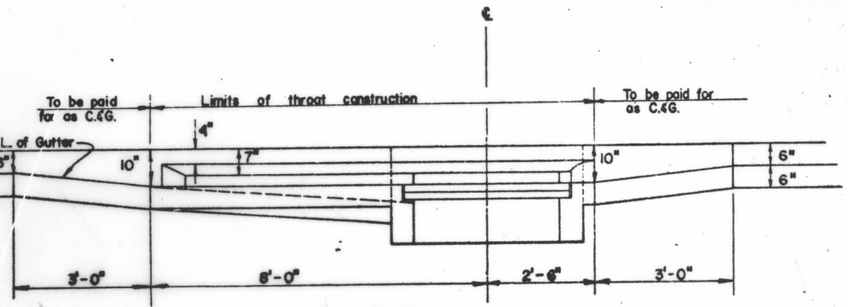


SECTION "A-A"

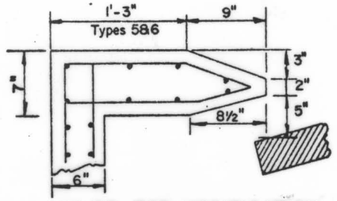


SECTION "A-A"

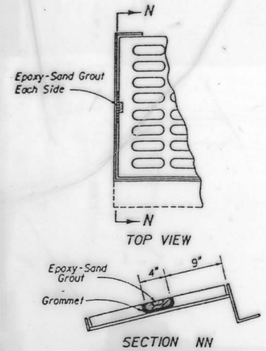
Alternate "G" - Solid, galvanized steel cover for Type 5&6 inlets. Cover to be hot dip galvanized after fabrication. To be used where specified on the plans.



SECTION "B-B"

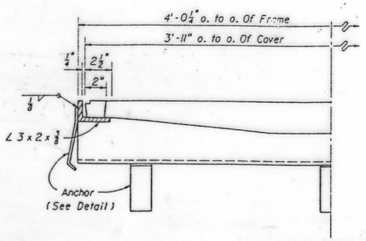


INLET TOP MODIFICATION
FOR TYPE "E" CURB

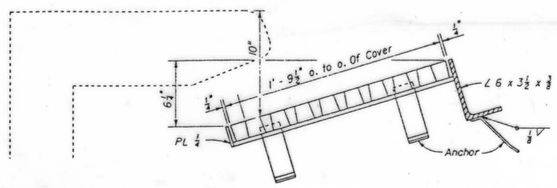


SECTION NN

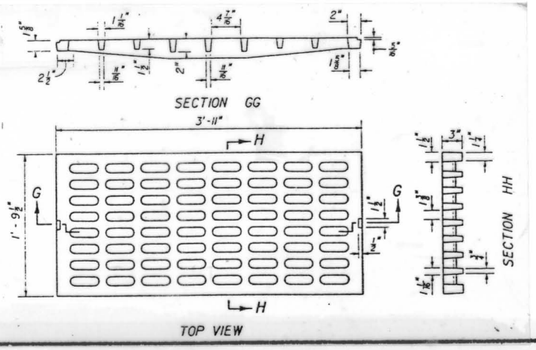
GROUTING DETAILS



HALF SECTION DD



SECTION EE



CAST IRON COVER

FHWA Approved: 5-1-75

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REVISIONS	
Dates	Descriptions
8-74	Redrawn - Chgd Index No

DADE COUNTY PUBLIC WORKS DEPARTMENT
HIGHWAY DIVISION

DESIGN
DRAWN
CHECK
PROPOSED

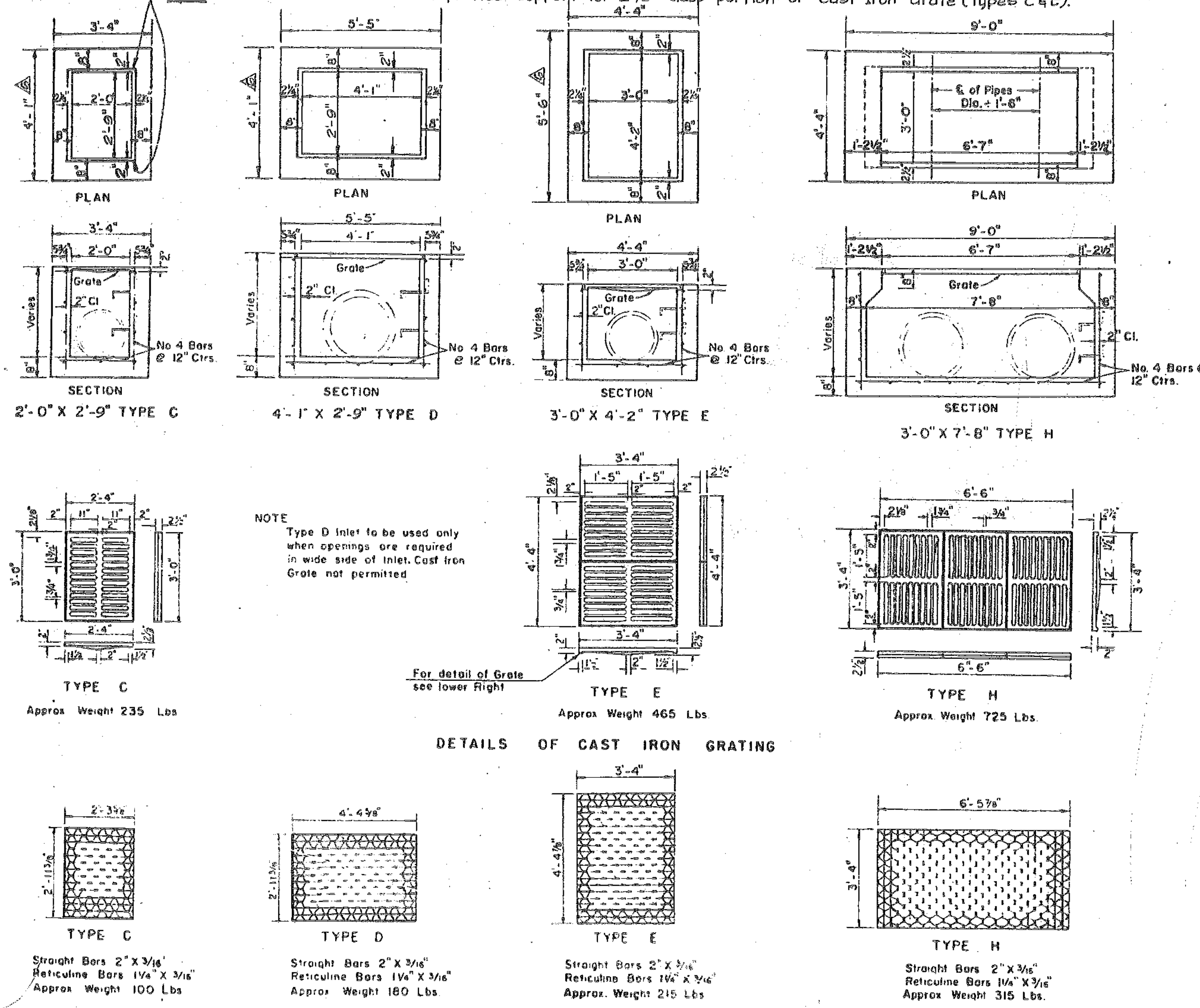
DCI - 02

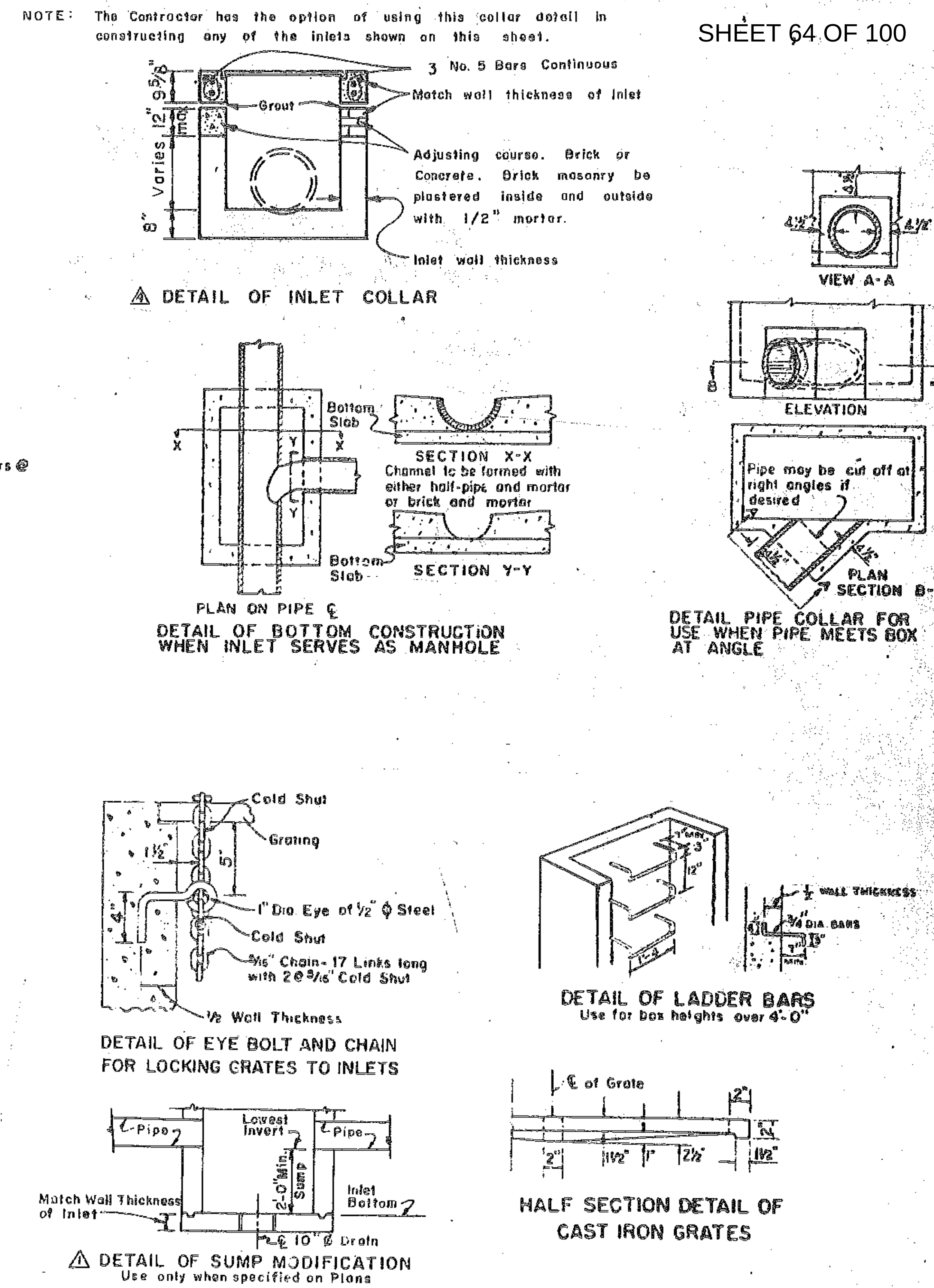
CURB INLET
TYPES "5" & "6"

SUBMITTED	RECOMMENDED	APPROVED
HIGHWAY ENGINEER	CHIEF ENGINEER	DIRECTOR
DATE	PROJ	SHEET 1 OF X

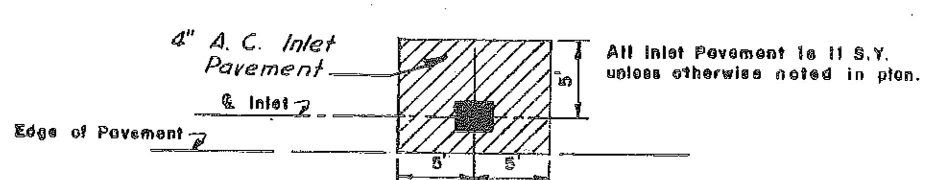
PLEASE RETAIN THIS SHEET FOR STANDARD MYLAR SHEET YOUR PERMANENT FILES.

⚠ NOTE: Recess Sill to receive and provide support for 2½" deep portion of Cast Iron Grate (Types C & E).


PLAN
SECTION
2'-0" X 2'-9" TYPE C
4'-1" X 2'-9" TYPE D
3'-0" X 4'-2" TYPE E
3'-0" X 7'-8" TYPE H
Grate
2" Cl
No 4 Bars @ 12" Ctrs.
Varies
℄ of Pipes Dia. + 1'-6"
NOTE
Type D Inlet to be used only when openings are required in wide side of Inlet. Cast Iron Grate not permitted
TYPE C
Approx Weight 235 Lbs
TYPE E
Approx Weight 465 Lbs
TYPE H
Approx Weight 725 Lbs
For detail of Grate see lower Right
DETAILS OF CAST IRON GRATING
TYPE C
Straight Bars 2" X 3/16"
Reticuline Bars 1¼" X 3/16"
Approx Weight 100 Lbs
TYPE D
Straight Bars 2" X 3/16"
Reticuline Bars 1¼" X 3/16"
Approx Weight 180 Lbs
TYPE E
Straight Bars 2" X 3/16"
Reticuline Bars 1¼" X 3/16"
Approx. Weight 215 Lbs
TYPE H
Straight Bars 2" X 3/16"
Reticuline Bars 1¼" X 3/16"
Approx Weight 315 Lbs.
DETAILS OF STEEL GRATING


NOTE: The Contractor has the option of using this collar detail in constructing any of the inlets shown on this sheet.
3 No. 5 Bars Continuous
Match wall thickness of Inlet
Grout
Adjusting course. Brick or Concrete. Brick masonry be plastered inside and outside with 1/2" mortar.
Inlet wall thickness
⚠ DETAIL OF INLET COLLAR
VIEW A-A
ELEVATION
Pipe may be cut off at right angles if desired
PLAN SECTION B-B
DETAIL PIPE COLLAR FOR USE WHEN PIPE MEETS BOX AT ANGLE
Bottom Slab
SECTION X-X
Channel to be formed with either half-pipe and mortar or brick and mortar
SECTION Y-Y
PLAN ON PIPE ℄
DETAIL OF BOTTOM CONSTRUCTION WHEN INLET SERVES AS MANHOLE
Cold Shut
Grating
1" Dia. Eye of ½" ϕ Steel
Cold Shut
5/16" Chain- 17 Links long with 2 @ 5/16" Cold Shut
½ Wall Thickness
DETAIL OF EYE BOLT AND CHAIN FOR LOCKING GRATES TO INLETS
Wall Thickness
3/4" DIA. BARS
DETAIL OF LADDER BARS
Use for box heights over 4'-0"
Pipe
Lowest Invert
2'-0" Min. Sump
Inlet Bottom
Match Wall Thickness of Inlet
6" - 10" ϕ Drain
⚠ DETAIL OF SUMP MODIFICATION
Use only when specified on Plans
℄ of Grate
HALF SECTION DETAIL OF CAST IRON GRATES

⚠NOTE: Cast iron grates shall be used unless otherwise noted and shall be chain locked to inlet.



⚠ DETAILS OF INLET PAVING

GENERAL NOTES:

BEVELED EDGES: All exposed corners and edges to be chamfered 3/4"

FOUNDATION MATERIAL: Where material unsatisfactory for foundation is encountered at FL. EL. and floor and carry walls down to satisfactory foundation. Backfill to FL. with clean sand.

CAST IRON: In accordance with Florida State Road Department Specifications

STEEL DECKING: Manufactured by Borden, Florida Steel, Irving, Reliance, Greulich, (or Equal).

REVISION	DATE	DESCRIPTION	BY	REVISION	DATE	DESCRIPTION	BY
				⚠	10-68	Detail of Inlet Collar	OGB
				⚠	12-67	Detail of Inlet Paving	A.R.
⚠	7-71	Dimensions of Box	JWB	⚠	9-67	Note, Re: Cast Iron Grates	R.J.S.
⚠	7-71	Note, Re: Recess in Box	JWB	⚠	4-66	Detail of Sump Modification	H.W.

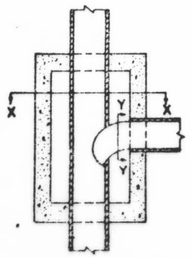
DADE COUNTY PUBLIC WORKS DEPARTMENT
HIGHWAY DIVISION 20

DESIGN S. R. D.
DRAWN
CHECK
PROPOSED
SUBMITTED
RECOMMENDED
APPROVED
DATE 3-63

STANDARD DITCH BOTTOM INLETS, TYPE C, D, E, & H

DDI - 03

FED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.			



PLAN ON PIPE ℄

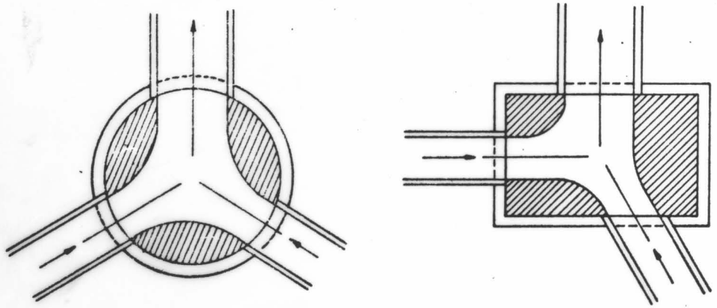
SECTION X-X

Channel to be formed with either half-pipe and mortar or brick and mortar.

SECTION Y-Y

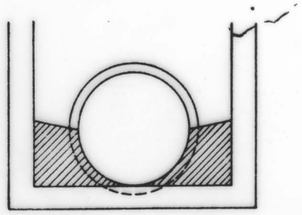
DETAIL OF BOTTOM CONSTRUCTION WHEN INLET SERVES AS MANHOLE

GENERAL NOTE:
Mortar used to seal the pipe into the walls of precast units will be of such a mix that shrinkage will not cause leakage into or out of the units. Maximum opening for pipe shall be the O.D. of the pipe required plus 6".

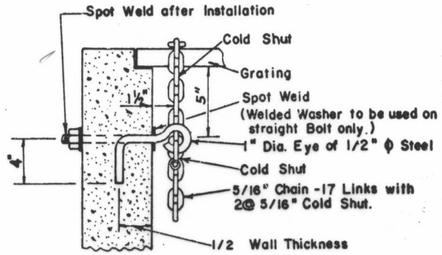


DETAIL OF CHANNELIZATION

Note: Channelization required at all drainage structures with two or more pipes.

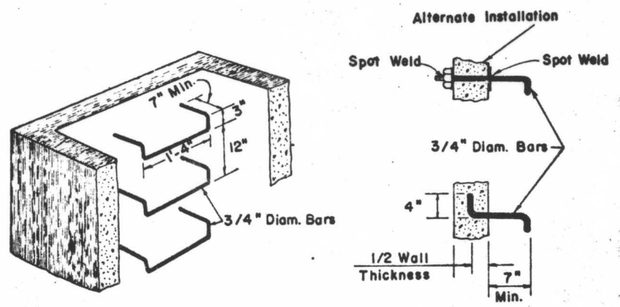


Smooth flow channels composed of concrete, or brick and mortar shall be constructed in the bottoms of all structures to a depth equal to half the diameter of the largest pipe.



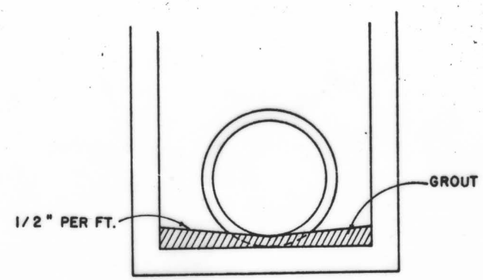
DETAIL OF EYE BOLT AND CHAIN FOR LOCKING GRATES TO INLETS

Note: One required per inlet grate.



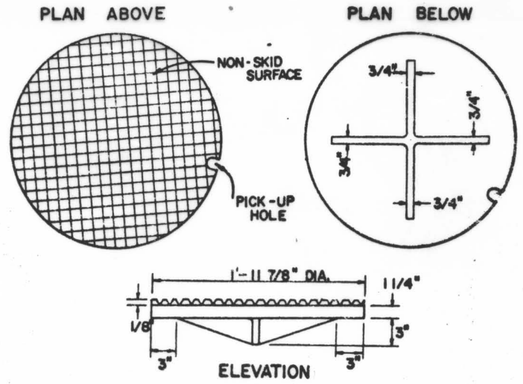
DETAIL OF LADDER BARS

Use for box heights over 10'-0"

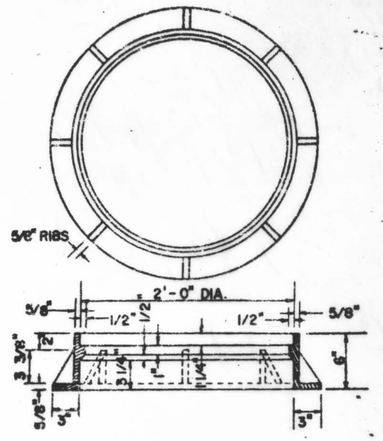


ALTERNATE LOCATION OF PIPE IN STRUCTURE WHEN PREFABRICATED FLOOR SLAB IS USED

COMPLETE FLOW CHANNEL IS REQUIRED WHEN THERE IS FLOW THROUGH THE STRUCTURE

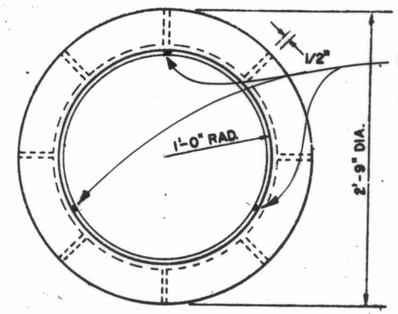


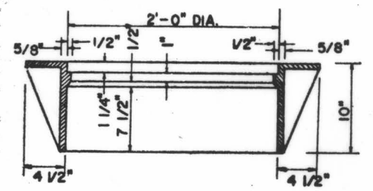
COVER FOR ALL FRAMES
(WHEEL LOADS H-20)



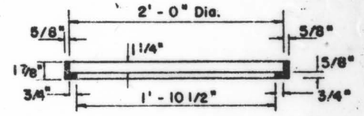
TYPE I FRAME FOR MANHOLES
AS SHOWN ON INDEX DSB-01

PROVIDE 3- 1/4" TACK WELDS ON MANHOLE TOPS IN SIDEWALK





TYPE II FRAME
For Type 1, 2, 3 & 4 Inlets



TYPE III FRAME
For Type 7 & 8 Inlets

CAST IRON

FRAME AND COVER DETAILS

Note: Tack Weld all Covers to Frames (3 places) as directed by the Engineer.

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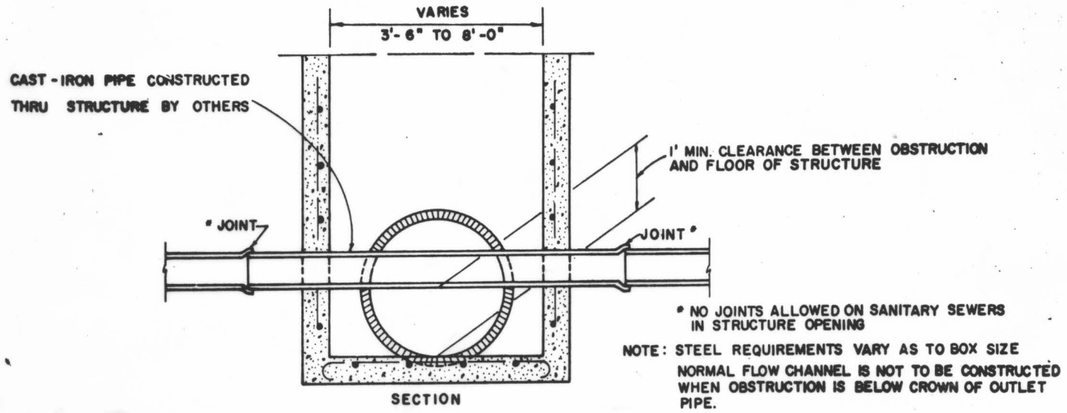
FHWA Approved: 5-1-75

REVISIONS	
Date	Description

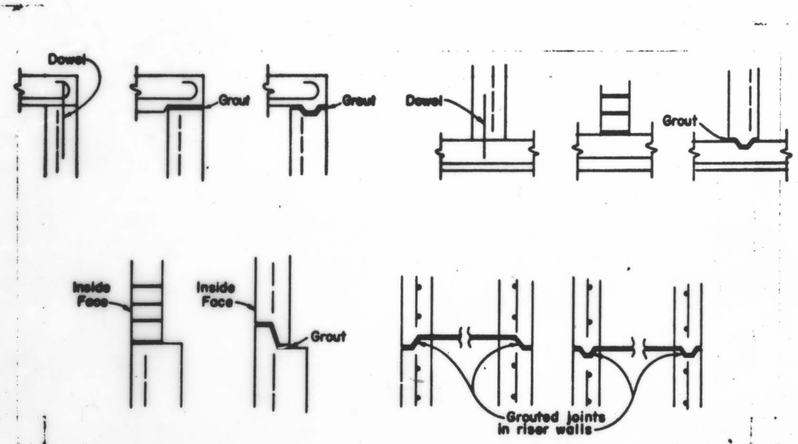
DADE COUNTY PUBLIC WORKS DEPARTMENT
HIGHWAY DIVISION

DESIGN	DSD-01
DRAWN	
CHECK	SUPPLEMENTARY DET. FOR MANHOLE & INLET STRUCT.
PROPOSED	

SUBMITTED	RECOMMENDED	APPROVED
HIGHWAY ENGINEER	CHIEF ENGINEER	DIRECTOR
DATE	PROJ.	SHEET 1 OF 2



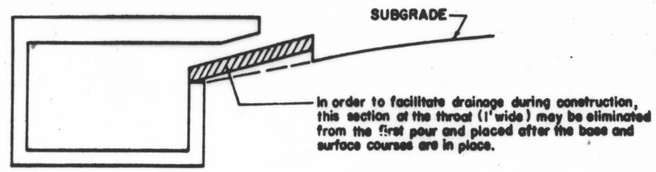
DETAIL SHOWING PIPE CONSTRUCTED THRU STORM SEWER STRUCTURE



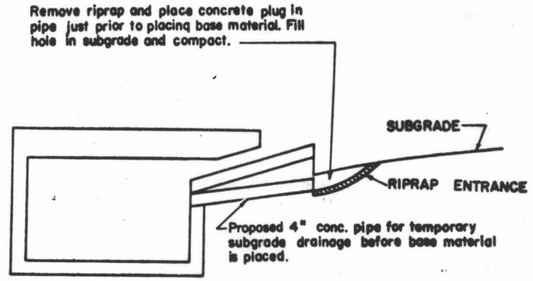
NOTES -

1. Any type joint may be used in conjunction with any other type joint.
2. All grouted joints are to have a maximum thickness of 1".
3. Keyways are to be a minimum of 1 1/2" deep.
4. Joint dowels are to be #4 bars, 12" long with a minimum of 6 bars per joint evenly spaced.
5. Minimum cover on reinforcing bars is 1 1/4".

OPTIONAL CONSTRUCTION JOINTS



ALTERNATE A



ALTERNATE B

(Cost to be included in the unit price bid for inlets.)

DETAIL OF TEMPORARY SUBGRADE DRAINS

(Optional with Contractor)

NOTE:

For all manhole, inlet and junction box structures the mortar used to seal the pipe into the walls of the precast units will be of such a mix that shrinkage will not cause leakage into or out of the units. Maximum opening for pipe shall be max. req'd O.D.+6".

FHWA Approved: 5-1-75

28

REVISIONS	
Date	Description
2-75	REDRAWN

DADE COUNTY PUBLIC WORKS DEPARTMENT
HIGHWAY DIVISION

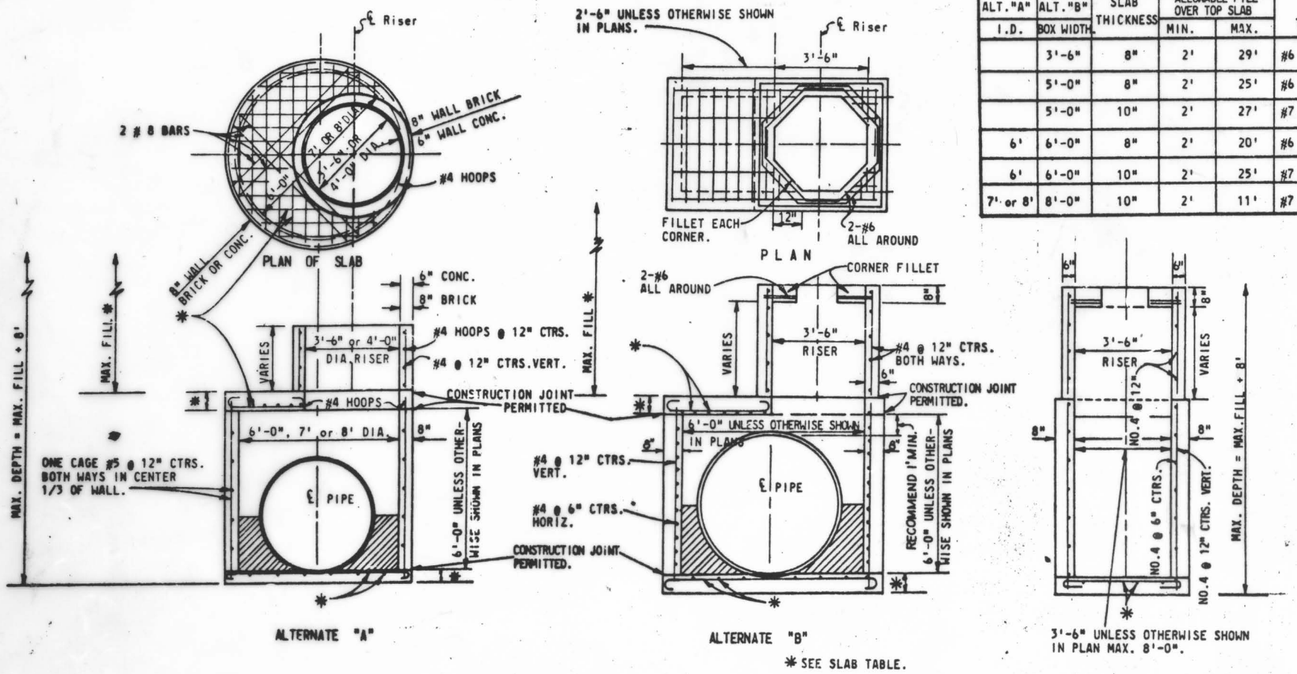
DESIGN	DSD-01
DRAWN	
CHECK	SUPPLEMENTARY DET. FOR
PROPOSED	MANHOLE & INLET STRUCTURES

SUBMITTED	RECOMMENDED	APPROVED
HIGHWAY ENGINEER	CHIEF ENGINEER	DIRECTOR

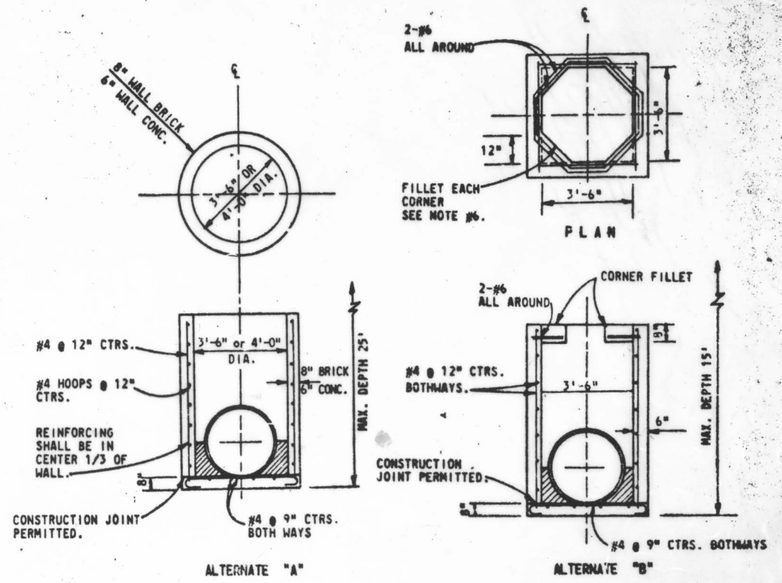
DATE _____ PROJ. _____ SHEET 2 OF 2

FED. ROAD DIV. No.	STATE	PROJECT No.	FISCAL YEAR	SHEET No.
9	FLA.			

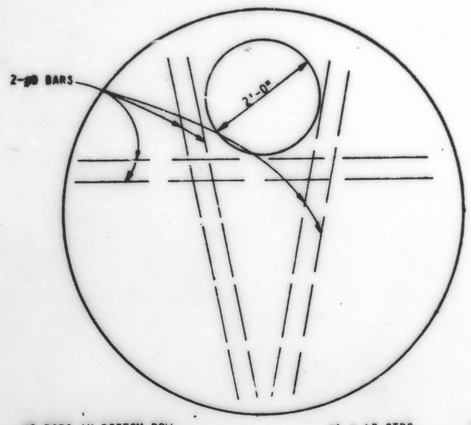
TOP AND FLOOR SLAB TABLE TYPE "J"					
ALT."A" I.D.	ALT."B" BOX WIDTH	SLAB THICKNESS	ALLOWABLE FILL OVER TOP SLAB MIN.	ALLOWABLE FILL OVER TOP SLAB MAX.	REINFORCING TOP & FLOOR SLABS
	3'-6"	8"	2'	29'	#6 @ 6" CTRS. B.W.
	5'-0"	8"	2'	25'	#6 @ 6" CTRS. B.W.
	5'-0"	10"	2'	27'	#7 @ 6" CTRS. B.W.
6'	6'-0"	8"	2'	20'	#6 @ 6" CTRS. B.W.
6'	6'-0"	10"	2'	25'	#7 @ 6" CTRS. B.W.
7' or 8'	8'-0"	10"	2'	11'	#7 @ 6" CTRS. B.W.

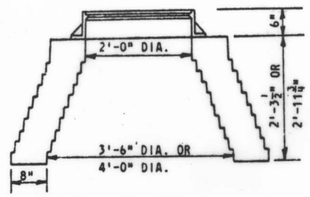


INLET, MANHOLE, JUNCTION BOX TYPE J



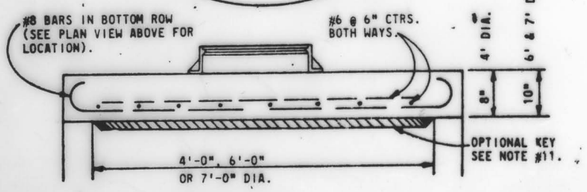
INLET, MANHOLE, JUNCTION BOX TYPE P





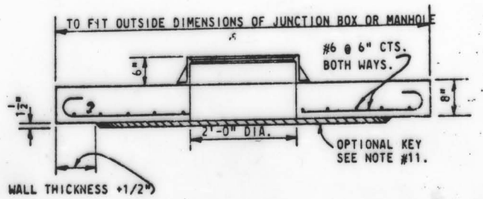
MANHOLE TOP TYPE 8

NOTE: DETAIL SHOWN IS FOR BRICK CONSTRUCTION.



JUNCTION BOX OR MANHOLE TOP TYPE 7-T

FOR USE WHEN TOP SLAB IS SUBJECTED TO WHEEL LOADS (H-20) (TRAFFIC)



JUNCTION BOX OR MANHOLE TOP TYPE 7-NT

FOR USE WHEN TOP SLAB IS NOT SUBJECTED TO WHEEL LOADS (NON-TRAFFIC)

GENERAL NOTES

1. WALLS OF CIRCULAR STRUCTURES (ALTERNATE "A") MAY BE CONSTRUCTED OF CONCRETE OR BRICK, BUT RECTANGULAR STRUCTURES (ALTERNATE "B") SHALL BE CONSTRUCTED OF CONCRETE ONLY. THE CONCRETE MAY BE CAST-IN-PLACE OR PRECAST.
2. WALL REINFORCEMENT AND THICKNESS ARE FOR EITHER CAST-IN-PLACE OR PRECAST CONCRETE UNITS EXCEPT THAT THE MANUFACTURER MAY FURNISH PRECAST CIRCULAR UNITS IN ACCORDANCE WITH A.S.T.M. SPECIFICATION C-478 UP TO 72" IN DIA. OR PRECAST CIRCULAR UNITS A.S.T.M. SPECIFICATION C-76, TABLE III, FOR "B" WALL CONCRETE PIPE. TOP AND FLOOR SLAB THICKNESS AND REINFORCEMENT ARE FOR ALL TYPES OF CONSTRUCTION.
3. ELLIPTICAL STEEL, ASTM SPECIFICATION C-76, TABLE III, "B" WALL, IS MODIFIED TO USE A CIRCULAR CAGE OF STEEL AREA EQUAL TO THAT OF THE ELLIPTICAL CAGE AND PLACED IN THE CENTER ONE-THIRD OF THE WALL. THIS MODIFICATION IS FOR PRECAST CIRCULAR UNITS PRODUCED IN ACCORDANCE WITH ASTM C-76.
4. TOP AND FLOOR SLABS FOR TYPE J UNITS AND TYPE 7 MANHOLE TOPS SHALL BE OF CLASS II CONCRETE. CONCRETE AS SPECIFIED IN ASTM C-478 MAY BE USED FOR PRECAST UNITS.
5. ANY INLET, MANHOLE OR JUNCTION BOX MAY BE USED IN CONJUNCTION WITH ANY INLET THROAT OR MANHOLE TOP. FOR EXAMPLE, AN INLET WITH A TYPE J BOX AND A TYPE 2 THROAT WOULD BE CALLED AN INLET TYPE J-2 IN THE PLANS. THE CONTRACTOR MAY AT HIS OPTION USE EITHER ALTERNATE A OR B STRUCTURES, UNLESS OTHERWISE SHOWN IN THE PLANS.
6. RECTANGULAR STRUCTURES MAY BE ROTATED AS DIRECTED BY THE ENGINEER IN ORDER TO FACILITATE CONNECTIONS BETWEEN THE STRUCTURE WALLS AND STORM SEWER PIPES.
7. THE CORNER FILLETS SHOWN FOR RECTANGULAR STRUCTURES ARE NECESSARY ONLY WHEN STRUCTURES ARE USED IN CONJUNCTION WITH CIRCULAR INLET THROATS (TYPES 1, 2, 3 & 4) OR WHEN USED ON SKEW WITH RECTANGULAR INLET THROATS (TYPES 5 & 6).
8. INLET THROATS, RISERS OR MANHOLE TOPS SHALL BE SECURED TO STRUCTURES WITH A MINIMUM OF 6 - NO. 4 BARS 12" LONG OR AS SHOWN ON INDEX NO.DSD-01.
9. STRUCTURES WITH DEPTHS OVER 14' ARE TO BE CHECKED FOR FLOTATION BY DESIGNER OF PROJECT DRAINAGE.
10. ALL STEEL BARS SHALL HAVE 1½" MINIMUM COVER UNLESS OTHERWISE SHOWN AND SHALL BE HOOKED WHERE INDICATED. HORIZONTAL STEEL IN RECTANGULAR STRUCTURES SHALL BE LAPPED A MINIMUM OF 24 BAR DIAMETERS AT CORNERS. ON PRECAST UNITS, FLOOR SLABS MAY BE SECURED TO STRUCTURE WALLS BY NO. 4 DOWEL BARS (A MINIMUM OF 6 DOWELS) PUSHED INTO THE WET CONCRETE AFTER THE FLOOR SLAB IS PLACED.
11. TYPE 7 TOP SLABS MAY BE OF CAST-IN-PLACE OR PRECAST CONSTRUCTION. THE OPTIONAL KEY IS FOR PRECAST TOPS AND IS IN LIEU OF DOWELS. FRAME AND SLAB OPENINGS ARE TO BE OMITTED WHEN TOP IS USED OVER A JUNCTION BOX. FRAME CAN BE ADJUSTED WITH FROM ONE TO SIX COURSES OF BRICK.
12. MANHOLE TOP TYPE 8 MAY BE OF CAST-IN-PLACE OR PRECAST CONCRETE CONSTRUCTION OR BRICK CONSTRUCTION. FOR CONCRETE CONSTRUCTION, THE CONCRETE AND STEEL REINFORCEMENT SHALL BE THE SAME AS THE SUPPORTING WALL UNIT. AN ECCENTRIC CONE MAY BE USED.
13. LARGER THAN SPECIFIED STANDARD UNITS MAY BE SUBSTITUTED AT THE CONTRACTOR'S OPTION WHEN THESE UNITS WILL NOT CAUSE OR INCREASE THE SEVERITY OF UTILITY CONFLICTS. SUCH LARGER UNITS SHALL BE FURNISHED AT NO ADDITIONAL COST TO THE DEPARTMENT. LARGER ALTERNATE "A" UNITS CANNOT REPLACE ALTERNATE "B" UNITS WITHOUT APPROVAL OF THE ENGINEER. THIS NOTE APPLIES TO THIS INDEX ONLY.
14. FOR SUPPLEMENTARY DETAILS SEE INDEX NO.DSD-01 AND 3-E OR 3-E-1.

FHWA Approved: 5-1-75

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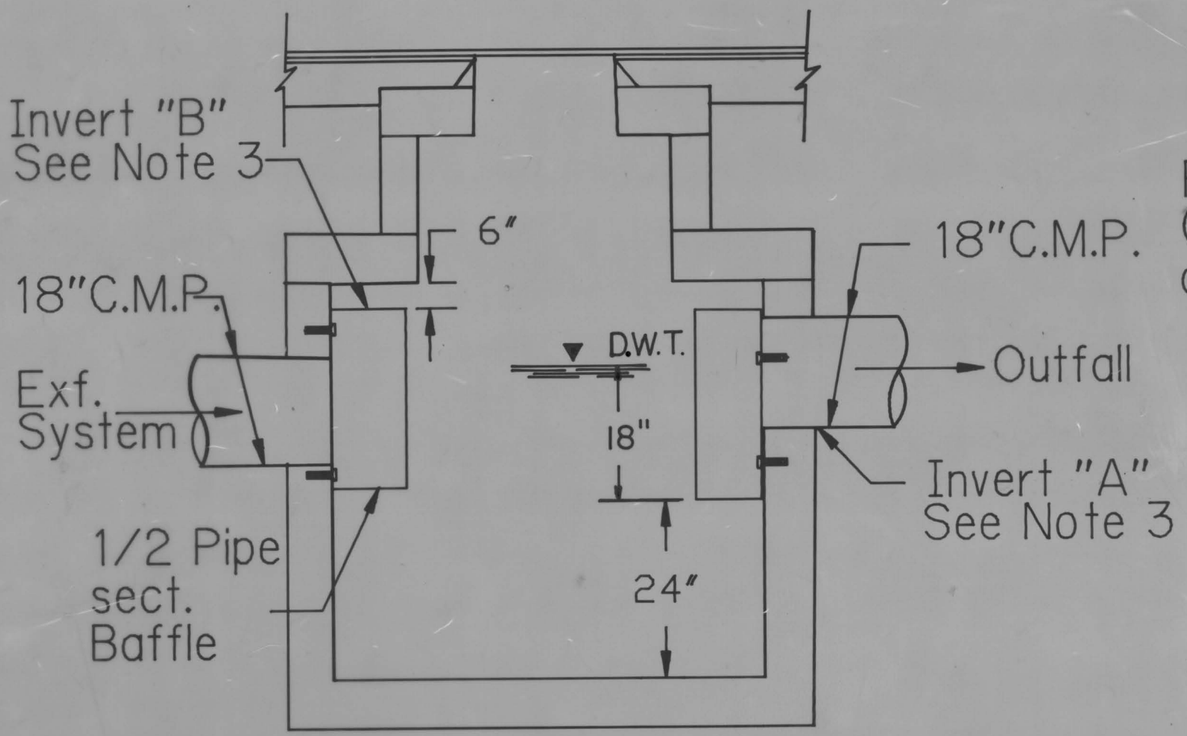
REVISIONS	
Dates	Descriptions
10-74	Changed Index No.

DADE COUNTY PUBLIC WORKS DEPARTMENT
HIGHWAY DIVISION

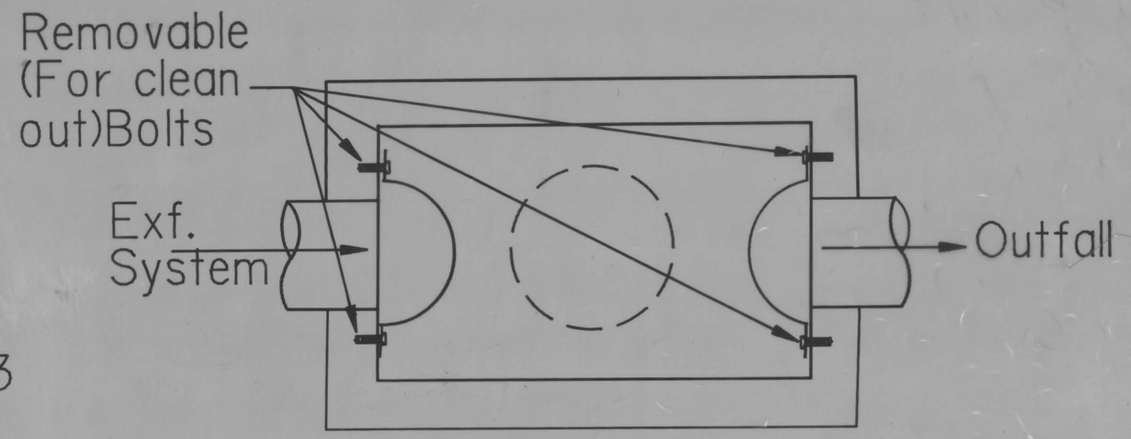
DESIGN	DSB-01
DRAWN	INLET, MANHOLE, JUNCTION BOX TYPES J & P
CHECK	
PROPOSED	

SUBMITTED	RECOMMENDED	APPROVED
HIGHWAY ENGINEER	CHIEF ENGINEER	DIRECTOR
DATE	PROJ.	SHEET 1 OF 1

POLLUTION CONTROL STRUCTURE



SIDE VIEW



TOP VIEW

NOTES:

1. All dimensions are minimum.
2. Standard 3'-6" x6' "J" Box. See Index DSB-01 for details.
3. Invert "A" to be set at weir elevation. Where not possible, invert "B" to be weir elevation with bottom of 1/2 pipe closed. If neither possible, next box into exfiltration system to have weir.
4. There will be a neoprene seal between the structure wall and 1/2 pipe.

29.2

DADE COUNTY PUBLIC WORKS DEPARTMENT
HIGHWAY DIVISION 29.2

DESIGN
DRAWN
CHECK
PROPOSED

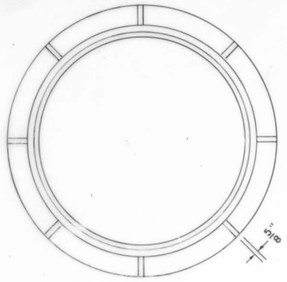
P. C. S. - 1

SUBMITTED | RECOMMENDED | APPROVED

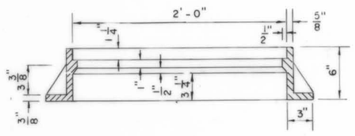
DATE July, 1989 PROJ SHEET OF

DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION

PROJECT NO. _____ SHEET ___ OF ___



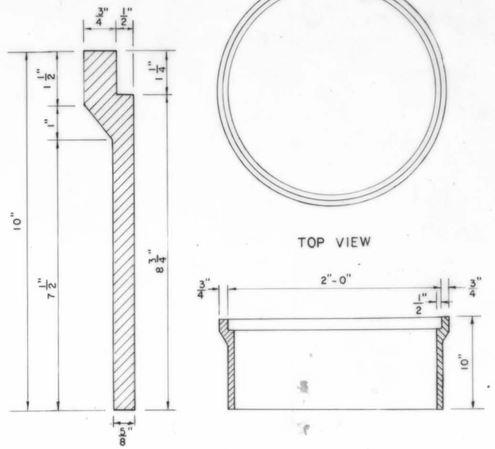
TOP VIEW



SECTION

TYPE I

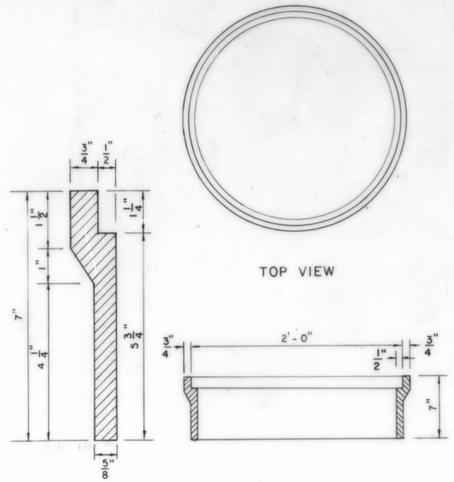
FOR MANHOLES



WALL SECTION SECTION

TYPE II

FOR CURB INLETS TYPES 1, 2, 3, & 4

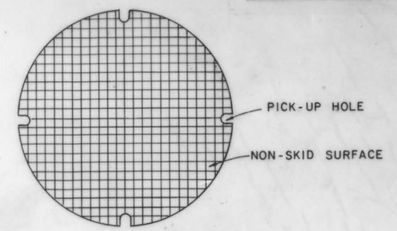


WALL SECTION SECTION

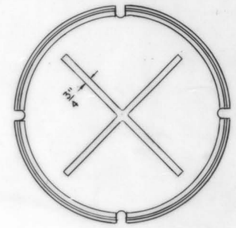
TYPE III

FOR CURB INLETS TYPES 7 & 8

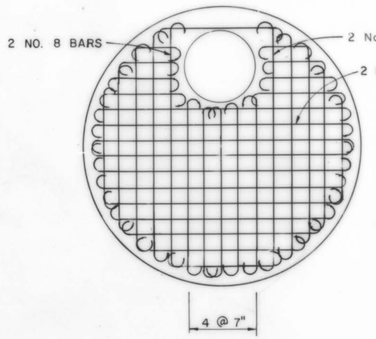
CAST IRON FRAMES



TOP VIEW

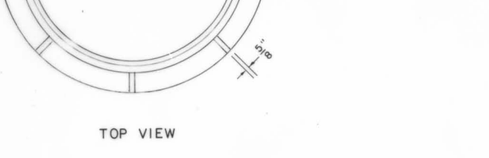


BOTTOM VIEW



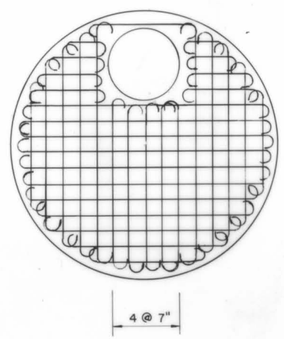
REINFORCEMENT PLAN

ALL REINFORCEMENT No. 6 BARS EXCEPT 6 No. 8 BARS SHOWN. BARS SPACED @ 6" CENTERS BOTH WAYS EXCEPT MIDDLE BARS SHOWN @ 7" CENTERS. ALL BARS WITH ACI STANDARD HOOKS CANTED APPROX. 45°, OR EMBEDDED IN ACCORDANCE WITH THE SLAB REINFORCEMENT DETAIL SHOWN UNDER OPTIONAL CONSTRUCTION JOINTS, SHEET NO. 2 of 2 EXCEPT ALL NO. 8 BARS AND NO. 6 BARS AROUND MANHOLE OPENING SHALL BE HOOKED.



SECTION

TYPE 7-T (TRAFFIC) (H-20)



REINFORCEMENT PLAN

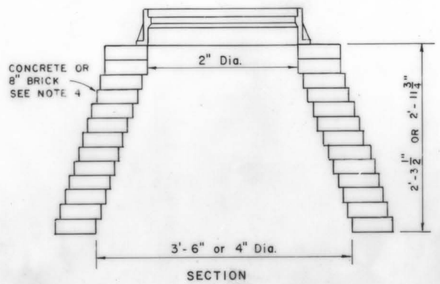
SECTION

TYPE 7-NT (NON-TRAFFIC)

MANHOLES OR JUNCTION BOXES

REINFORCING BARS @ 6" CENTERS BOTH WAYS EXCEPT MIDDLE BARS SHOWN @ 7" CENTERS. ALL BARS WITH ACI STANDARD HOOKS CANTED APPROX. 45°, OR EMBEDDED IN ACCORDANCE WITH THE SLAB. REINFORCEMENT DETAIL SHOWN UNDER OPTIONAL CONSTRUCTION JOINTS, SHEET 3 OF 3, EXCEPT BARS AROUND MANHOLE OPENING SHALL BE HOOKED.

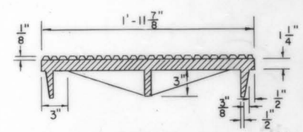
BAR SIZE	TOP DIAMETER
No. 4	3'-6" & 4'
No. 5	6'
No. 6	7'



SECTION

TYPE 8

MANHOLES



SECTION

COVER FOR ALL FRAMES

NOTES (TOPS, FRAMES AND COVER):

1. ALL STEEL BARS SHALL BE NEW BARS IN ACCORDANCE WITH ASTM A 615, GRADE 60 AND HAVE 1 1/4" MINIMUM COVER UNLESS OTHERWISE SHOWN AND SHALL BE HOOKED WHERE INDICATED.
2. MANHOLE TOP TYPE 7 SLABS SHALL BE OF CLASS II CONCRETE (fc' = 3400 P.S.I.).
3. MANHOLE TOP TYPE 7 SLABS MAY BE OF CAST-IN-PLACE OR PRECAST CONSTRUCTION. THE OPTIONAL KEY IS FOR PRECAST TOPS AND IN LIEU OF DOWELS. FRAME AND SLAB OPENINGS ARE TO BE OMITTED WHEN TOP IS USED OVER A JUNCTION BOX. FRAMES CAN BE ADJUSTED WITH FROM ONE TO SIX COURSES OF BRICK.
4. MANHOLE TOP TYPE 8 MAY BE OF CAST-IN-PLACE OR PRECAST CONCRETE CONSTRUCTION OR BRICK CONSTRUCTION. FOR CONCRETE CONSTRUCTION, THE CONCRETE AND STEEL REINFORCEMENT SHALL BE THE SAME AS THE SUPPORTING WALL UNIT. AN ECCENTRIC CONE MAY BE USED.
5. MANHOLE TOPS SHALL BE SECURED TO STRUCTURES BY OPTIONAL CONSTRUCTION JOINTS AS SHOWN ON SHEET NO. 2 OF THIS DETAIL.
6. ALL COVERS TO BE TACK WELDED TO FRAMES AT THIRD POINTS OR GROUTED AT THIRD POINTS WITH EXPOXY. (TOTAL ELEVEN (11) OUNCES OF MIXED EPOXY).
7. THE 212 LB. COVER IS THE REPLACEMENT FOR ALL PREVIOUS 1 1/4" DEEP FRAMES (TRAFFIC TYPE). THE 185 LB. COVER IS THE REPLACEMENT FOR ALL PREVIOUS 1/2" DEEP FRAMES (NON-TRAFFIC TYPE).

WEIGHT OF CASTINGS	
TYPE I	126 Lbs.
TYPE II	134 Lbs.
TYPE III	98 Lbs.
COVER	212 Lbs.

STRUCTURE TOPS

32

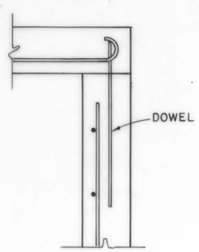
DADE COUNTY PUBLIC WORKS DEPARTMENT
HIGHWAY DIVISION

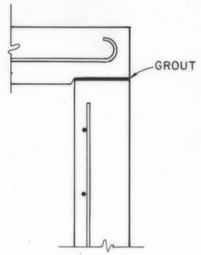
DESIGN S.R.D.	SUPPLEMENTARY DETAILS FOR MANHOLES AND INLETS
DRAWN F. B.	
CHECK W. Stevens	SMI-1
PROPOSED	

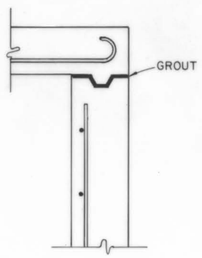
SUBMITTED HIGHWAY ENGINEER — RECOMMENDED CHIEF ENGINEER — APPROVED DIRECTOR

DATE NOV. 1983 PROJ. ___ SHEET 1 OF 2

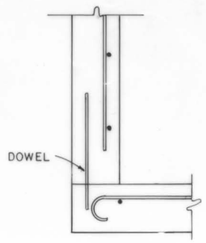
DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION
PROJECT NO. _____ SHEET ___ OF ___

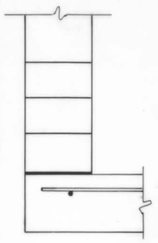


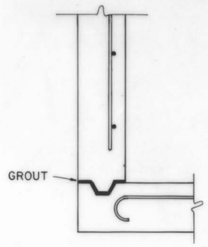


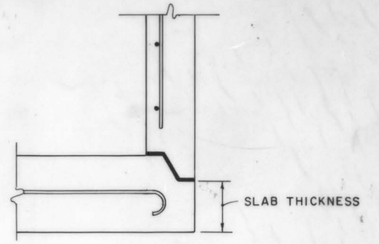


TOP SLABS TO WALLS

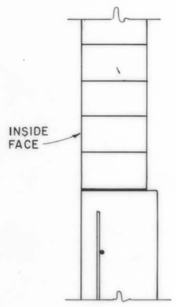


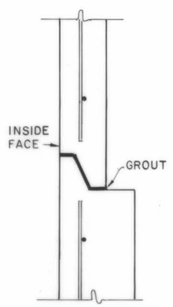


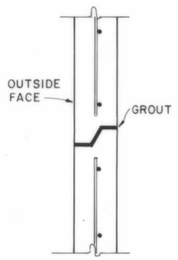


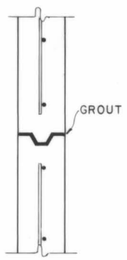


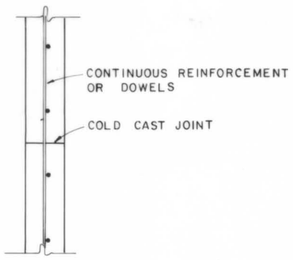
BOTTOM SLABS TO WALLS



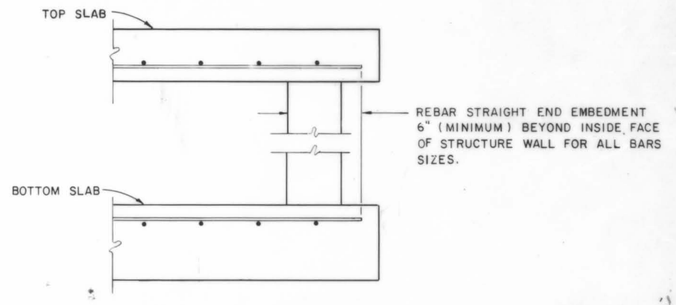








WALL JOINTS



REBAR STRAIGHT END EMBEDMENT IN LIEU OF ACI
STANDARD HOOKS FOR TOP AND BOTTOM SLABS

1. ONE OR MORE TYPES OF JOINTS MAY BE USED IN A SINGLE STRUCTURE, EXCEPT BRICK WALL STRUCTURE. BRICK WALL CONSTRUCTION IS PERMITTED ON CIRCULAR UNITS ONLY.
2. ALL GROUTED JOINTS ARE TO HAVE A MAXIMUM THICKNESS OF 1".
3. KEYWAYS ARE TO BE A MINIMUM OF $1\frac{1}{2}$" DEEP.
4. JOINT DOWELS ARE TO BE #4 BARS, 12" LONG WITH A MINIMUM OF 6 BARS PER JOINT, APPROXIMATELY EVENLY SPACED.
5. MINIMUM COVER ON REINFORCING BARS IS $1\frac{1}{4}$".
6. REBAR STRAIGHT AND EMBEDMENT MAY BE USED IN LIEU OF ACI STANDARD HOOKS FOR TOP AND BOTTOM SLABS EXCEPT WHEN HOOKS ARE SPECIFICALLY CALLED FOR IN PLANS OR STANDARD DRAWINGS.

OPTIONAL CONSTRUCTION JOINTS

GENERAL NOTES

1. FOR SQUARE OR RECTANGULAR PRECAST DRAINAGE STRUCTURES EITHER DEFORMED OR SMOOTH WELDED WIRE FABRIC MAY BE USED BASED ON SUBSTITUTION OF EQUAL STEEL AREAS PROVIDED:
   a) THE SMOOTH WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A-185, AND DEFORMED WELDED WIRE FABRIC SHALL COMPLY WITH ASTM A-497.
   b) WIDTH AND LENGTH OF THE UNIT IS FOUR TIMES THE SPACING OF THE CROSS WIRES.
   c) WIRE FABRIC SHALL BE CONTINUOUS AROUND THE BOX, SPLICED AT QUARTER POINT (S) WITH OVERLAP OF NOT LESS THAN THE SPACING OF CROSS WIRES PLUS TWO INCHES.
2. WELDING OF SPLICES AND LAPS IS PERMITTED. THE REQUIREMENTS AND RESTRICTIONS PLACED ON WELDING IN AASHTO M-259 SHALL APPLY.
3. HORIZONTAL STEEL IN RECTANGULAR STRUCTURES SHALL BE LAPPED A MINIMUN OF 24 BAR DIAMETER AT CORNERS.

33

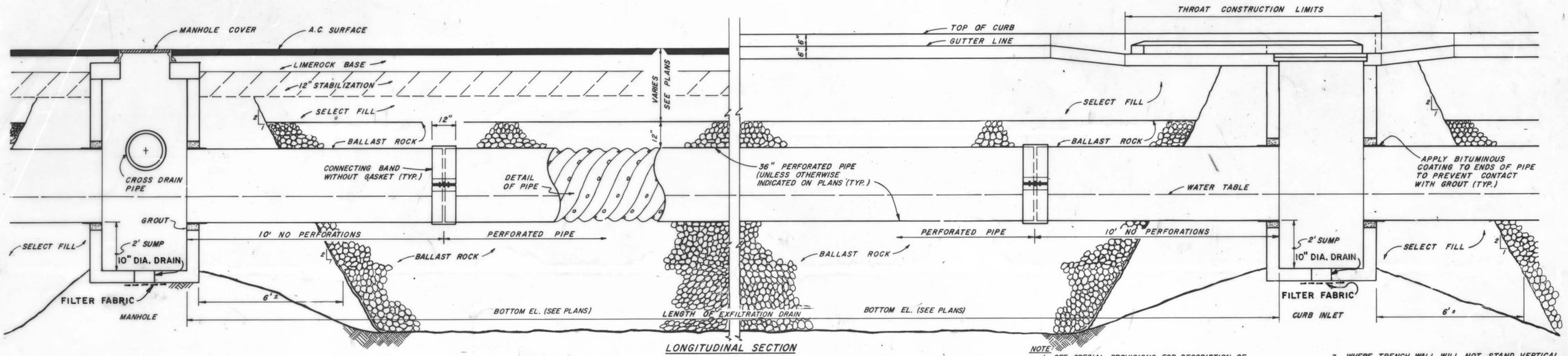
DADE COUNTY PUBLIC WORKS DEPARTMENT
HIGHWAY DIVISION

DESIGN	SUPPLEMENTARY DETAILS FOR MANHOLES AND INLETS
S.R.D.	
DRAWN F.B.	
CHECK W Stevens	SMI-02
PROPOSED	

SUBMITTED	RECOMMENDED	APPROVED
HIGHWAY ENGINEER	CHIEF ENGINEER	DIRECTOR
DATE NOV. 1983	PROJ.	SHEET 2 OF 2

DADE COUNTY PUBLIC WORKS DEPT.
HIGHWAY DIVISION

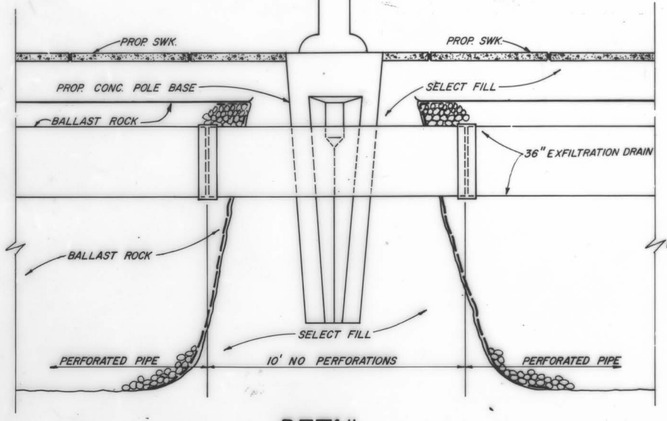
PROJECT NO. _____ SHEET ___ OF ___



LONGITUDINAL SECTION

NOTE

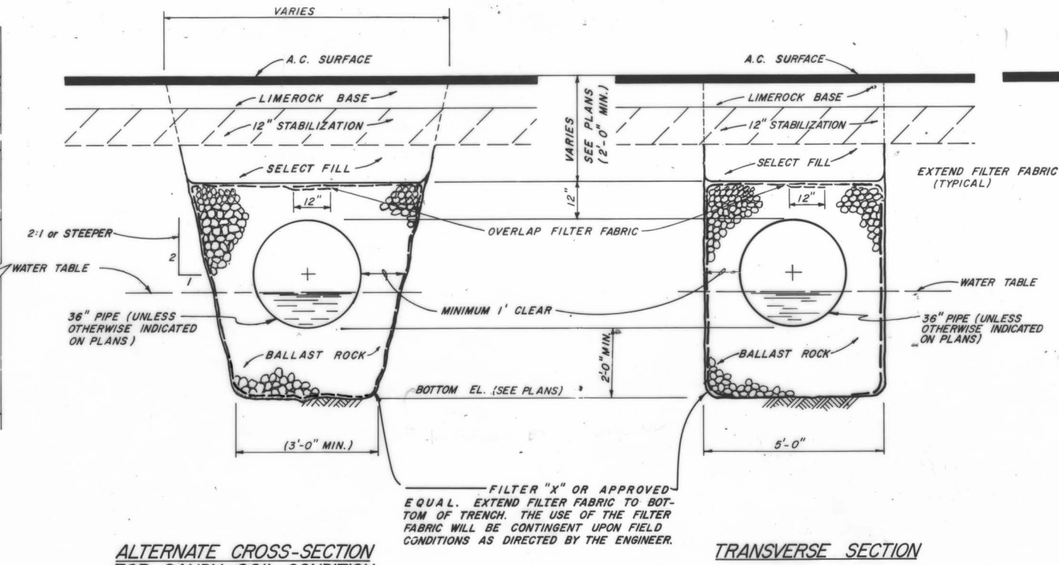
1. SEE SPECIAL PROVISIONS FOR DESCRIPTION OF SELECT FILL, BALLAST ROCK, PERFORATED PIPE AND POLYPROPYLENE FILTER FABRIC.
2. THE COST OF CONSTRUCTION OF THE EXFILTRATION DRAIN (ITEM NO. 443-70, PER LINEAR FOOT) SHALL INCLUDE THE COST OF EXCAVATION, BOTH PERFORATED AND NON-PERFORATED PIPE, BALLAST ROCK, AND BACKFILLING WITH SELECT FILL.
3. WHERE TRENCH WALL WILL NOT STAND VERTICAL OR WHERE CAVE-IN BELOW THE WATER TABLE IS LIKELY, ALTERNATE SECTION IS TO BE USED AT THE DISCRETION OF THE ENGINEER. THERE WILL BE NO ADDITIONAL PAYMENT FOR THIS CROSS SECTION.



DETAIL

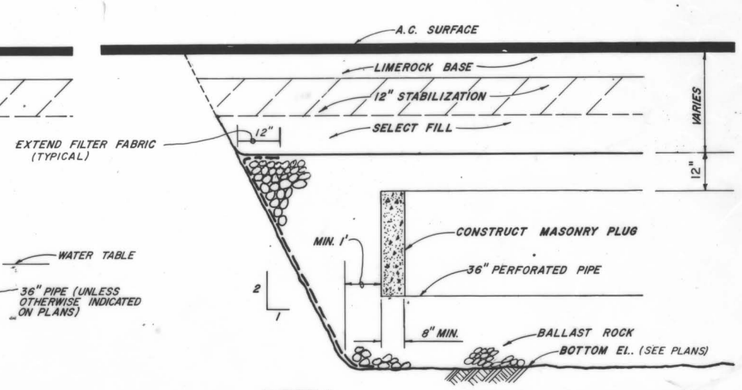
CONSTRUCTION OF EXFILTRATION DRAIN ADJACENT TO PROPOSED ROADWAY LIGHTING POLES

(FOR USE WHEN ℄ PIPE IS 7FT. OR LESS FROM ℄ OF POLE BASE)



ALTERNATE CROSS-SECTION FOR SANDY SOIL CONDITION

TRANSVERSE SECTION



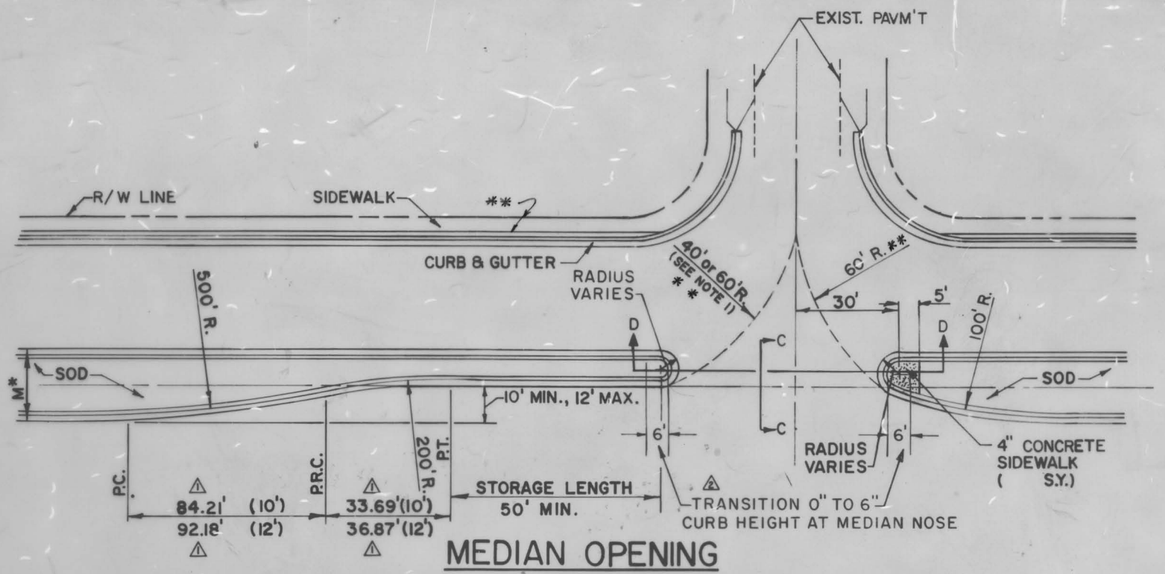
DETAIL

FOR ENDING EXFILTRATION DRAIN WITHOUT A DRAINAGE STRUCTURE.

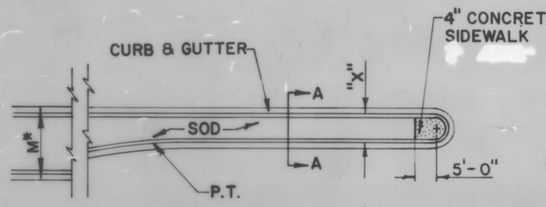
36

3-E		
DETAIL OF EXFILTRATION DRAIN WITH PERFORATED PIPE		
G.M. DRAWN BY	J.D.L. CHECKED BY	1-79 DATE

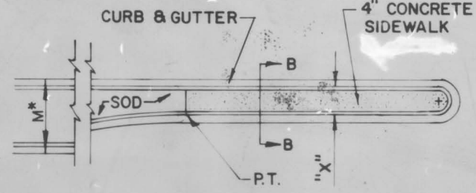
REV. 11/89



MEDIAN OPENING



DETAIL 'A'



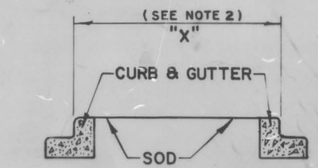
DETAIL 'B'

NOTES:

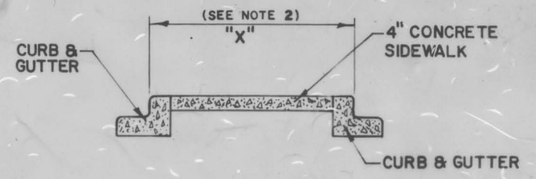
1. MINOR INTERSECTIONS 40' R. (LOCAL STREETS)
   MAJOR INTERSECTIONS 60' R. (ARTERIAL STREETS)
2. WHEN DIMENSION "X" IS MORE THAN 6'-0"
   USE DETAIL A; WHEN LESS THAN 6'-0" USE DETAIL B

* M=TOTAL EFFECTIVE MEDIAN WIDTH

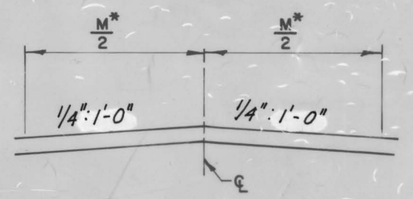
*** THESE ITEMS MAY NOT BE TYPICAL; SEE CONSTRUCTION PLANS FOR PROPER DETAILING.*



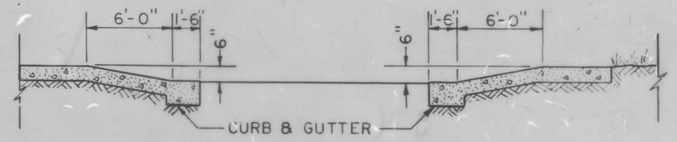
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

REVISION	DATE	DESCRIPTION	BY
2	2-27-75	Curb Height Transition	L.C.
1	3-15-74	Distance, P.C., P.R.C. & P.T.	S.L.

DADE COUNTY PUBLIC WORKS DEPARTMENT
HIGHWAY DIVISION

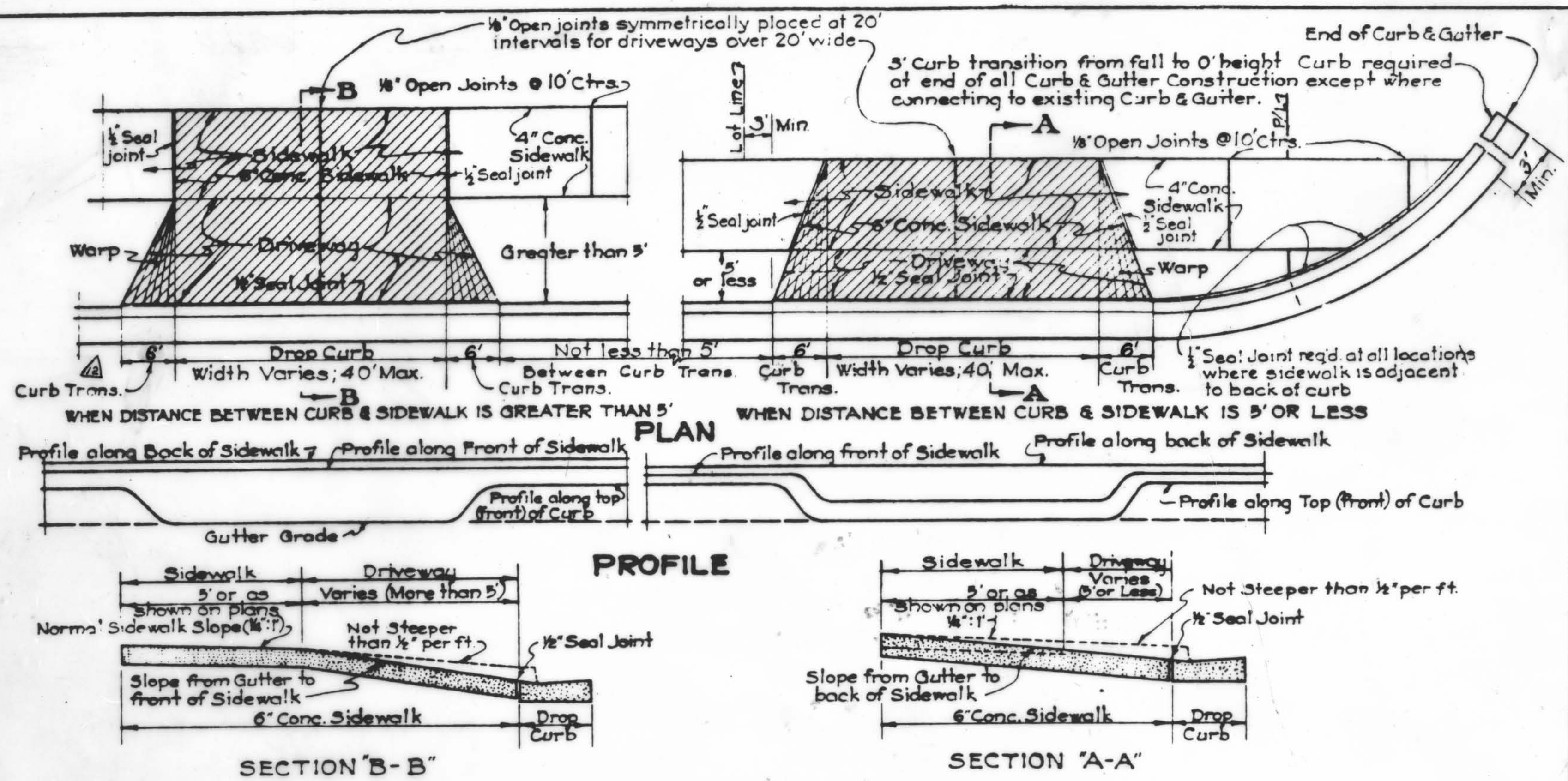
DESIGN: KERWIN
DRAWN: S.L.
CHECK: R. Young
PROPOSED:

MEDIAN OPENING ON DIVIDED ROADWAYS

15-B

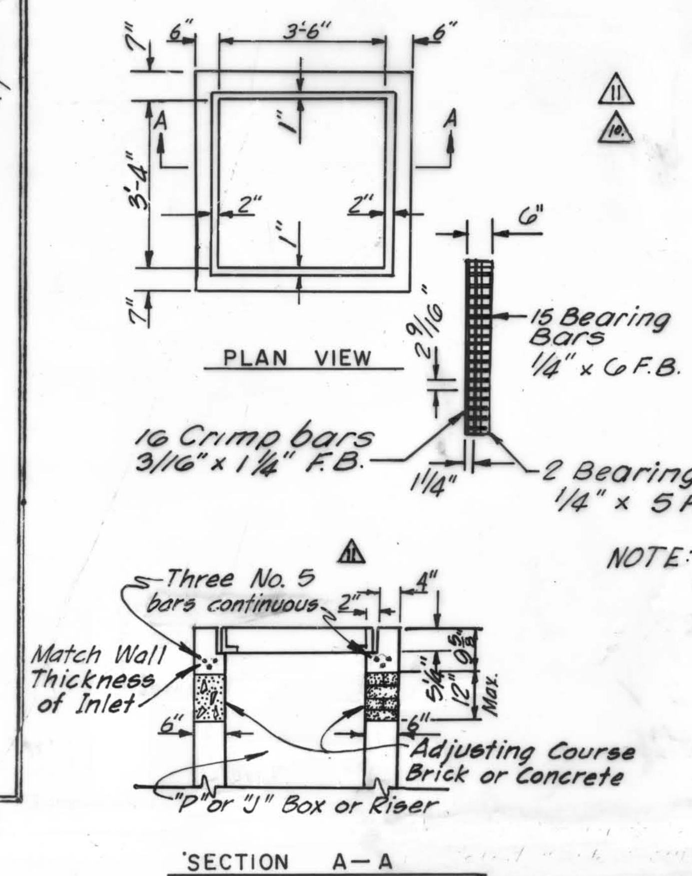
SUBMITTED RECOMMENDED APPROVED

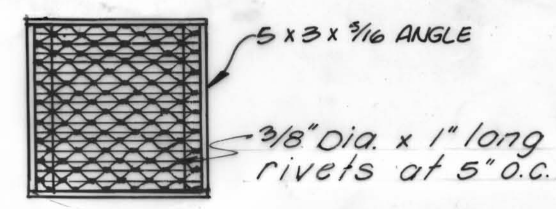
DATE PROJECT SHEET 92



DETAIL OF SIDEWALK AND PAVED DRIVEWAY CONSTRUCTION

No paved driveways are to be constructed without compensation for materials from the owner except for replacement of driveways existing at the time of beginning of construction of the project and if desired by the owner, and at all other locations where the need becomes evident prior to the completion of the construction of the curb and gutter and sidewalk at a particular location. All new or reconstructed driveways must conform to the size limits as indicated above.





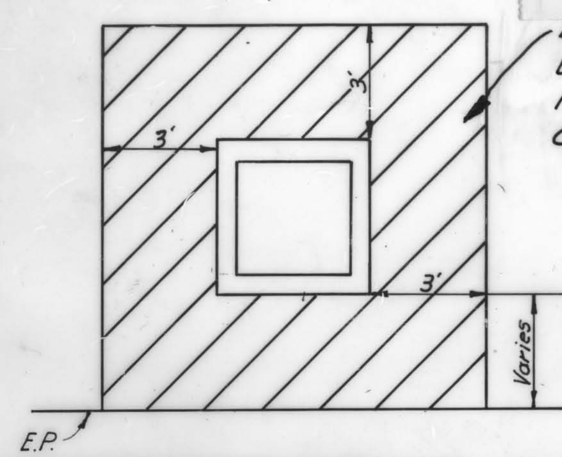
STEEL GRATING DETAIL

Grate Steel USF No. 6646 41 1/4" x 45 1/4" (Or Equal)

NOTE: 1. This inlet top to be used in conjunction with Index No. P & J Type Inlet Boxes

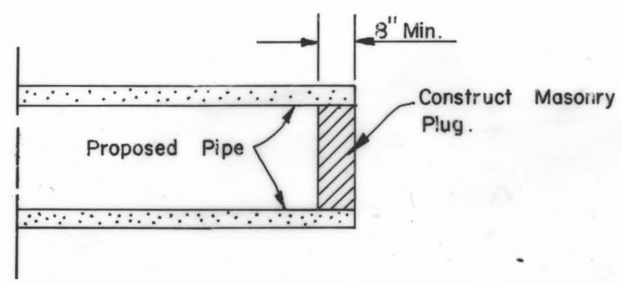
2. The Contractor may use a precast top collar and an adjusting course (12" max.) concrete or brick masonry. If brick is used, stucco inside and outside surface. (1/2" plaster)

INLET TOP TYPE 10

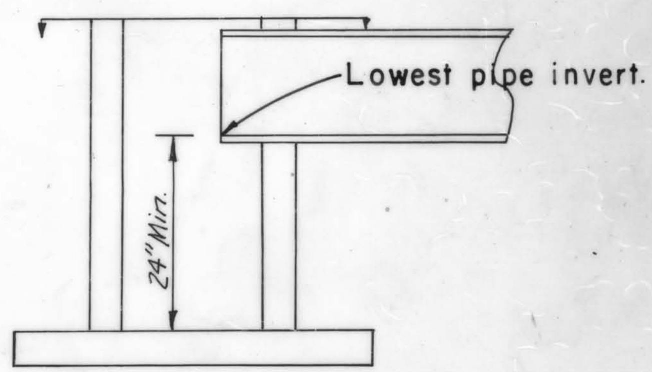


LIMEROCK BASE (6" THICK) OR BITUMINOUS BASE (4" THICK) WITH 1" ASPHALTIC CONCRETE SURFACE COURSE.

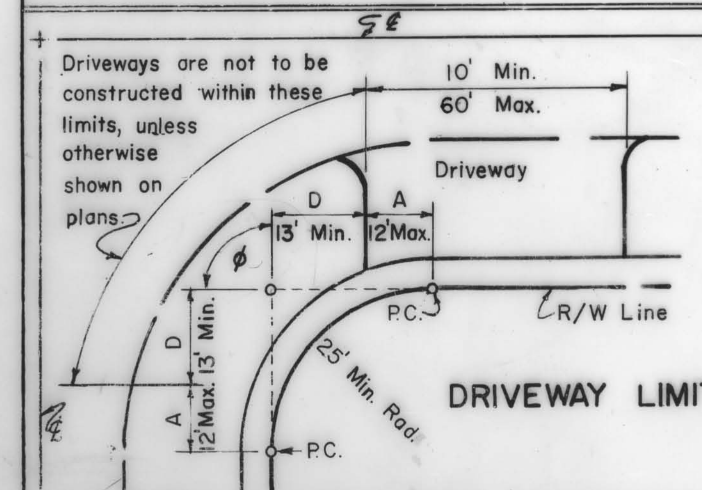
INLET PAVING DETAIL



DETAIL OF PIPE PLUG

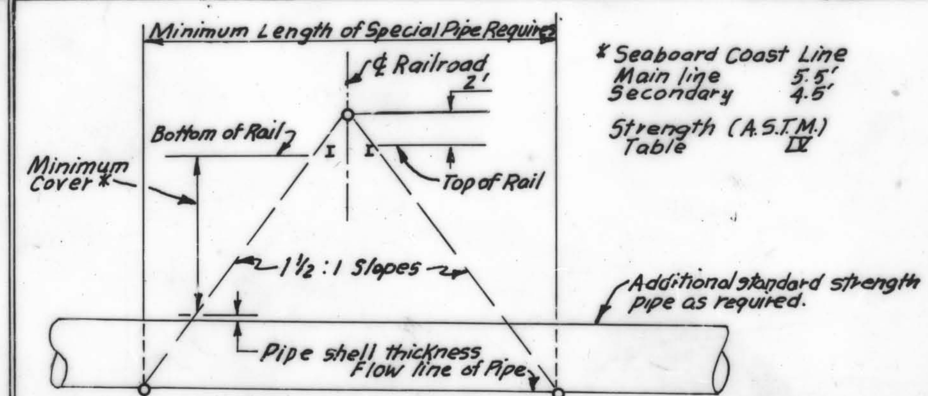


SUMP DETAIL FOR DRAINAGE STRUCTURES



NOTE:
1. Where the intersection angle φ is 90° or less, dimension "A" controls.
2. Where the intersection angle φ is over 90°, dimension "D" controls.

DRIVEWAY LIMITS NEAR INTERSECTIONS



METHOD FOR DETERMINING THE LENGTH OF EXTRA STRENGTH PIPE REQUIRED UNDER RAILROAD

REVISION	DATE	DESCRIPTION	BY
12	12/73	Add 6' Curb Transition	R.M.
11	9-15	Dimensions of Grating and Box	JWB
10	5-71	Dimensions of Grating	RS
9	11-68	2' Sump Detail	C.G.
8	10-68	Special Pipe Detail	A.R.
7	10-68	Added Pipe Plug	C.G.
6	9-68	Added Inlet Top Type #10	C.G.
5	9-68	Added Inlet Paving Detail	C.G.
4	8-68	Remove 1 & 3	CG
3	2-67	Adjust for Flexible Pavement	M.J.A.
2	3-65	Added Driveway Limits Near Intersect.	JRD
1	10-61	Added Detail of 9" Curb and Gutter	RC

61

DADE COUNTY PUBLIC WORKS DEPARTMENT
HIGHWAY DIVISION

DESIGN S.R.D.
DRAWN —
CHECK Herndon
PROPOSED

MISCELLANEOUS DETAILS

14-A

SUBMITTED | RECOMMENDED | APPROVED

DATE 6-6-1961 PROJ.______ SHEET___ OF___

FED. ROAD DIV No	STATE	PROJECT No.	FISCAL YEAR	SHEET No
3	FLA			

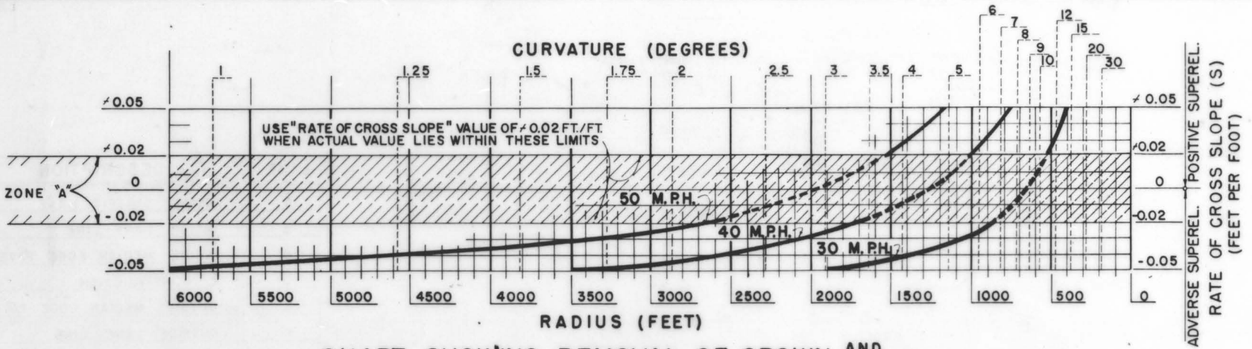
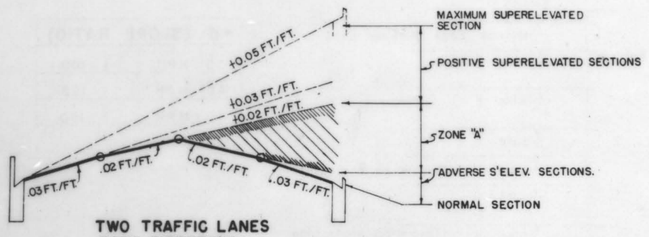
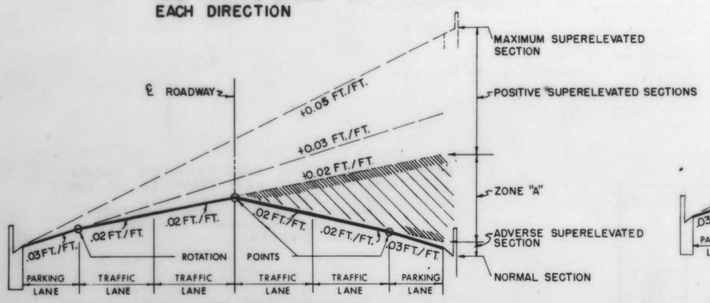


CHART SHOWING REMOVAL OF CROWN AND OR SUPERELEVATON NECESSARY FOR CURVATURE AT VARIOUS DESIGN SPEEDS

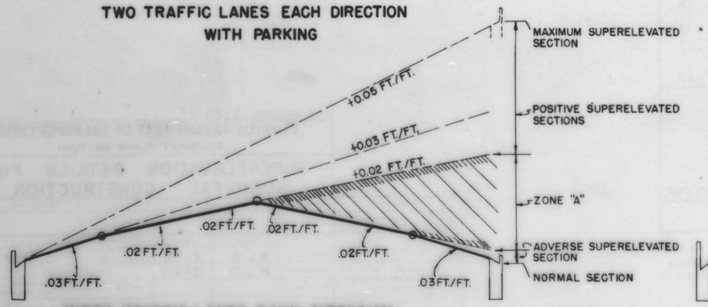
NOTE: WHEN THE ACTUAL SUPERELEVATION VALUE LIES WITHIN ZONE "A", USE A POSITIVE RATE OF 0.02 FT./FT. THE SUPERELEVATION RATES SHOWN ABOVE ARE TO BE USED FOR URBAN (CURB & GUTTER) CONSTRUCTION IN BUILT UP AREAS.



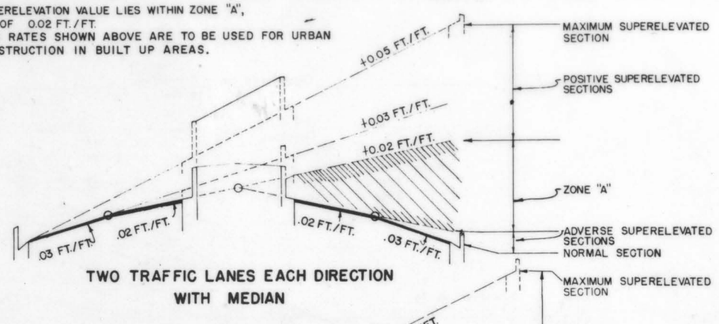
TWO TRAFFIC LANES EACH DIRECTION



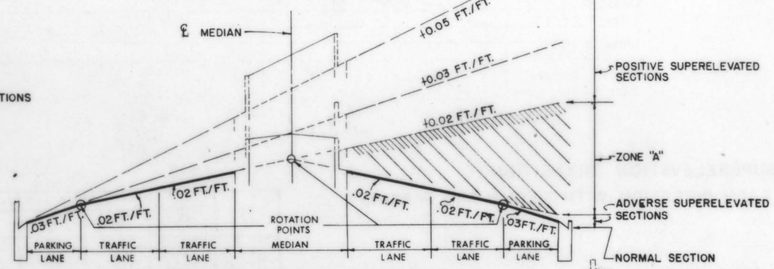
TWO TRAFFIC LANES EACH DIRECTION WITH PARKING



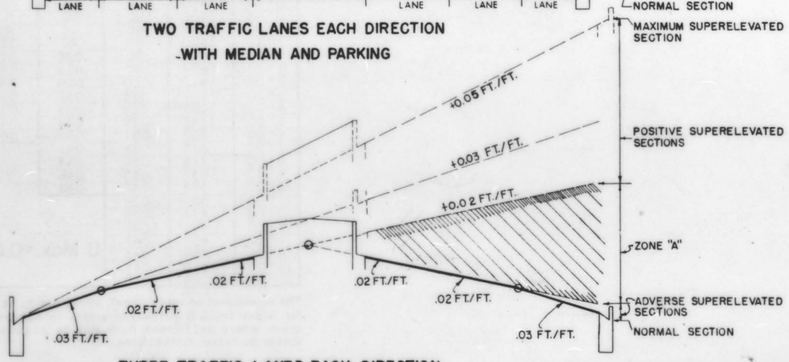
THREE TRAFFIC LANES EACH DIRECTION



TWO TRAFFIC LANES EACH DIRECTION WITH MEDIAN



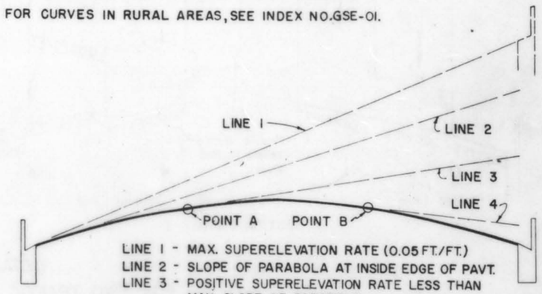
TWO TRAFFIC LANES EACH DIRECTION WITH MEDIAN AND PARKING



THREE TRAFFIC LANES EACH DIRECTION WITH MEDIAN

GENERAL NOTES FOR SUPERELEVATION

1. MAXIMUM RATE OF SUPERELEVATION (IN MUNICIPAL CONSTRUCTION) SHALL BE 0.05 FT./FT.
2. SUPERELEVATION SHALL BE OBTAINED BY ROTATING THE PLANE SUCCESSIVELY ABOUT THE BREAK POINTS OF THE SECTION UNTIL THE PLANE HAS ATTAINED A SLOPE EQUAL TO THAT REQUIRED BY THE CHART. SHOULD THE ROTATION TRAVERSE THE ENTIRE SECTION AND FURTHER SUPERELEVATION BE REQUIRED, THE REMAINING ROTATION OF THE PLANE SHALL BE ABOUT THE LOW EDGE OF THE INSIDE TRAVEL LANE.
   ADVERSE SUPERELEVATION OF SECTIONS WITH PARKING LANES. NO SUPERELEVATION WILL BE REQUIRED WHEN THE MAXIMUM ADVERSE SUPERELEVATION RATE IS GREATER THAN THE NORMAL SLOPE OF THE TRAFFIC LANE ADJACENT TO THE PARKING LANE.
3. WHEN POSITIVE SUPERELEVATION IS REQUIRED, THE SLOPE OF THE GUTTER ON THE HIGH SIDE SHALL BE A CONTINUATION OF THE SLOPE OF THE SUPERELEVATED PAVEMENT.
4. IN CONSTRUCTION, SHORT VERTICAL CURVES SHALL BE PLACED AT ALL ANGULAR PROFILE BREAKS WITHIN THE LIMITS OF THE SUPERELEVATION TRANSITION.
5. MINIMUM GUTTER GRADES WITHIN THE LIMITS OF THE SUPERELEVATION TRANSITION SHALL BE 0.2%.
6. THE VARIABLE SUPERELEVATION TRANSITION LENGTH "L" SHALL HAVE A MINIMUM VALUE OF 50 FEET FOR DESIGN SPEEDS UNDER 40 M.P.H. AND 75 FEET FOR DESIGN SPEEDS OF 40 M.P.H. OR GREATER.
7. MUNICIPAL SECTIONS HAVING LANE ARRANGEMENTS DIFFERENT FROM THOSE SHOWN, BUT COMPOSED OF A SERIES OF PLANES, SHALL BE SUPERELEVATED IN A SIMILAR MANNER.
8. FOR CURVES IN RURAL AREAS, SEE INDEX NO. GSE-01.



LINE 1 - MAX. SUPERELEVATION RATE (0.05 FT./FT.)
LINE 2 - SLOPE OF PARABOLA AT INSIDE EDGE OF PAVT.
LINE 3 - POSITIVE SUPERELEVATION RATE LESS THAN MAX. SLOPE OF PARABOLA.
LINE 4 - ADVERSE SUPERELEVATION.

VALUES OBTAINED FROM THE CHART ARE ALSO APPLICABLE TO A PARABOLIC CROWN SECTION. WHEN THIS TYPE SECTION IS USED, SUPERELEVATION IS ESTABLISHED BY ROTATING A TANGENT ABOUT THE ARC OF THE PARABOLIC CROWN UNTIL THE DESIRED SLOPE IS ATTAINED (POINTS A & B ON SKETCH). THE NORMAL PARABOLIC CROWN WILL BE MAINTAINED OUTSIDE THE LIMITS OF THE PLANE THUS FORMED.

SUPERELEVATION OF PARABOLIC SECTION

65

FHWA APPROVED: 5-20-77

FLORIDA DEPARTMENT OF TRANSPORTATION
ROADWAY PLANS SECTION - 65

SUPERELEVATION DETAILS FOR MUNICIPAL CONSTRUCTION

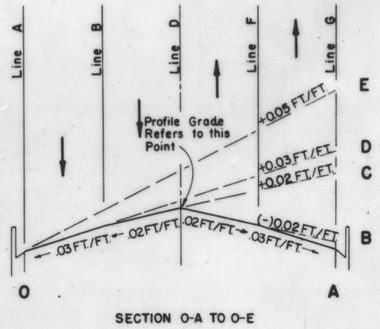
REVISIONS		REVISIONS	
Dates	Descriptions	Dates	Descriptions
5-77 LMF	Added note under S.E. Chart	3-67 M.J.T.	REVISED FOR PLANE SECTION
		1-73 BWS	Changed all fractions to decimals.
		10-74 LMF	Changed Index No. Updated pav't slope to current policy

ROAD NO.	COUNTY	PROJECT NO.

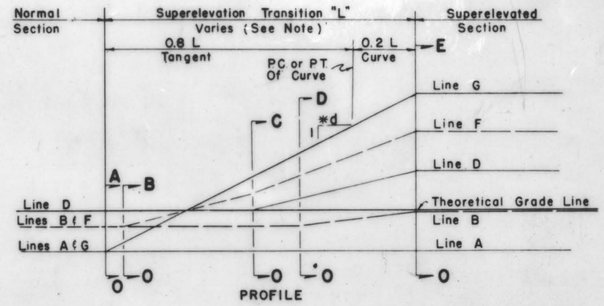
	Names	Dates
Detailed by	W. L. B	2-66
Checked by	R. L. O.	12-66
Quantities by		
Checked by		
Traced by	C. D. R.	1-67

Recommended For Approval by: Engineer of Road Design
APPROVED BY: Asst. State Highway Engineer

Drawing No. 1 OF 2 | Index No. GSE-02-1



SECTION O-A TO O-E



PROFILE

DETAIL OF SUPERELEVATION TRANSITION FOR TWO TRAFFIC LANES EACH DIRECTION

LINE	DESCRIPTION
A	INSIDE TRAFFIC LANE
B	INSIDE LANE LINE
C	INSIDE MEDIAN EDGE PAVEMENT
D	℄ CONSTRUCTION
E	OUTSIDE MEDIAN EDGE PAVEMENT
F	OUTSIDE LANE LINE
G	OUTSIDE TRAFFIC LANE

SECTION O-A TO O-E

PROFILE

*d (SLOPE RATIO)	
30 MPH	1 : 100
40 MPH	1 : 125
50 MPH	1 : 150

DETAIL OF SUPERELEVATION TRANSITION FOR TWO TRAFFIC LANES EACH DIRECTION WITH MEDIAN AND PARKING

D	R	V=30mph e	V=40mph e	V=50mph e
0° 15'	22918'	NC	NC	NC
0° 30'	11459'	NC	NC	NC
0° 45'	7639'	NC	NC	RC
1° 00'	5730'	NC	RC	RC
1° 30'	3820'	RC	RC	.024
2° 00'	2865'	RC	.022	.028
2° 30'	2292'	RC	.026	.031
3° 00'	1910'	.020	.029	.033
3° 30'	1637'	.023	.032	.036
4° 00'	1432'	.026	.033	.038
5° 00'	1146'	.028	.036	.043
6° 00'	955'	.031	.039	.047
7° 00'	819'	.032	.041	
8° 00'	716'	.034	.044	
9° 00'	637'	.035	.046	
10° 00'	573'	.037	.048	
11° 00'	521'	.038		
12° 00'	477'	.039		
13° 00'	441'	.040		
14° 00'	409'	.043	e Max.=0.05	
16° 00'	358'	.045		
18° 00'	318'	.047		
20° 00'	286'	.050		

The superelevation rates shown above are to be used for urban (curb & gutter) arterials in suburban areas where sufficient R/W may be acquired to make suitable connections.

NOTE: THE SECTIONS AND PROFILES SHOWN ON THIS SHEET ARE EXAMPLES OF THE SUPERELEVATION TRANSITIONS. SIMILAR SCHEMES SHOULD BE USED FOR ROADWAYS HAVING DIFFERENT SECTION DESIGNS.

FED. ROAD DIST. No.	STATE	PROJECT No.	FISCAL YEAR	SHEET No.
3	FLA.			

FHWA APPROVED: 5-20-77

66

FLORIDA DEPARTMENT OF TRANSPORTATION
ROADWAY PLANS SECTION

SUPERELEVATION DETAILS FOR MUNICIPAL CONSTRUCTION

REVISIONS		ROAD NO.	COUNTY	PROJECT NO.
Dates	Descriptions			
1-73	Changed all fractions to decimals.			
10-74 LMF	Changed Index No. Up-dated pavt slope to current policy			
5-77 LMF	Added S.E. chart for e Max 0.05			

	Names	Dates
Detailed by	W. L. B.	2-66
Checked by	R. L. O.	12-66
Quantities by		
Checked by		
Traced by	C. D. P.	1-67

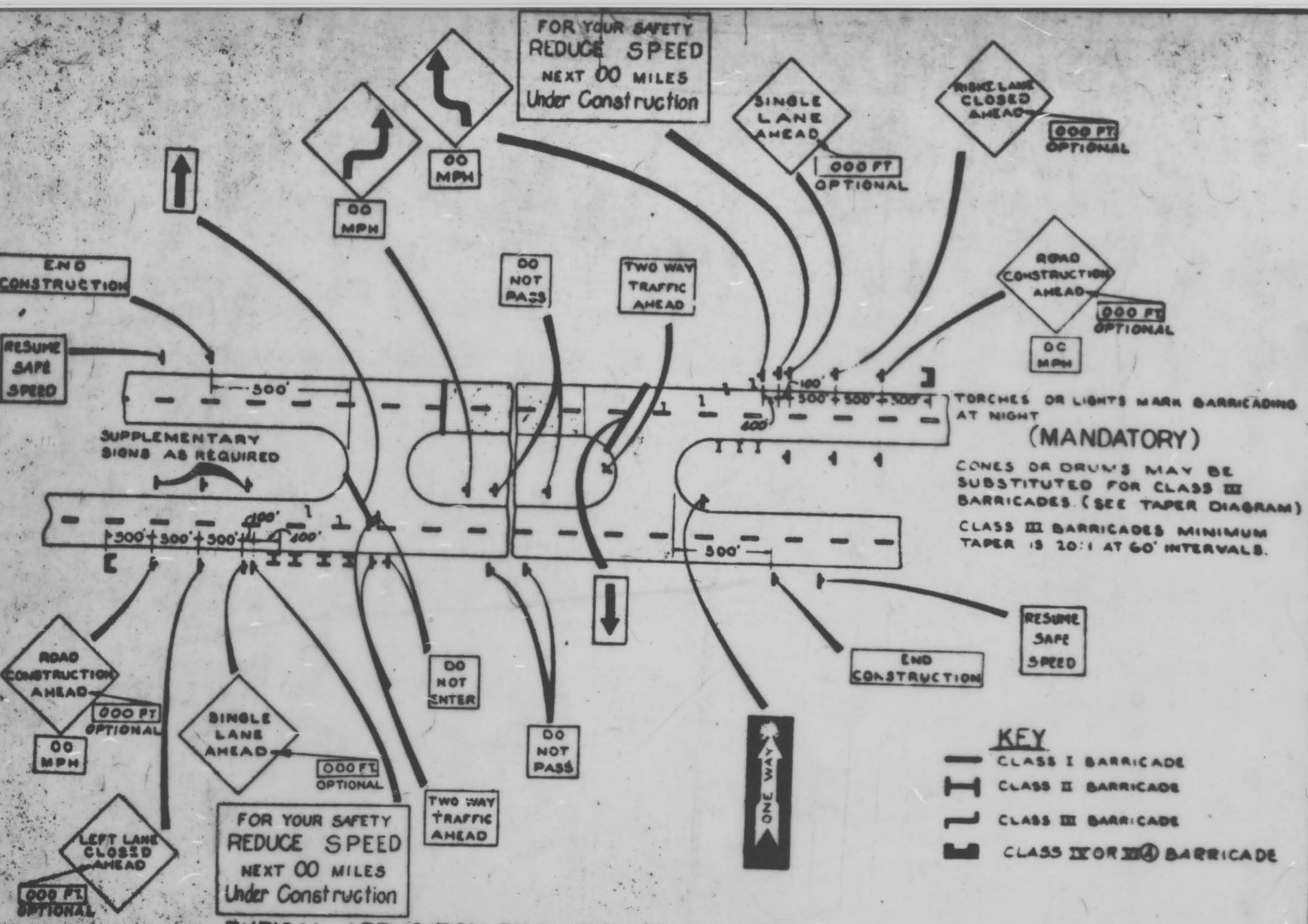
Recommended For Approval by: [illegible] Engineer of Road Design

APPROVED BY: [signature] Asst. State Highway Engineer

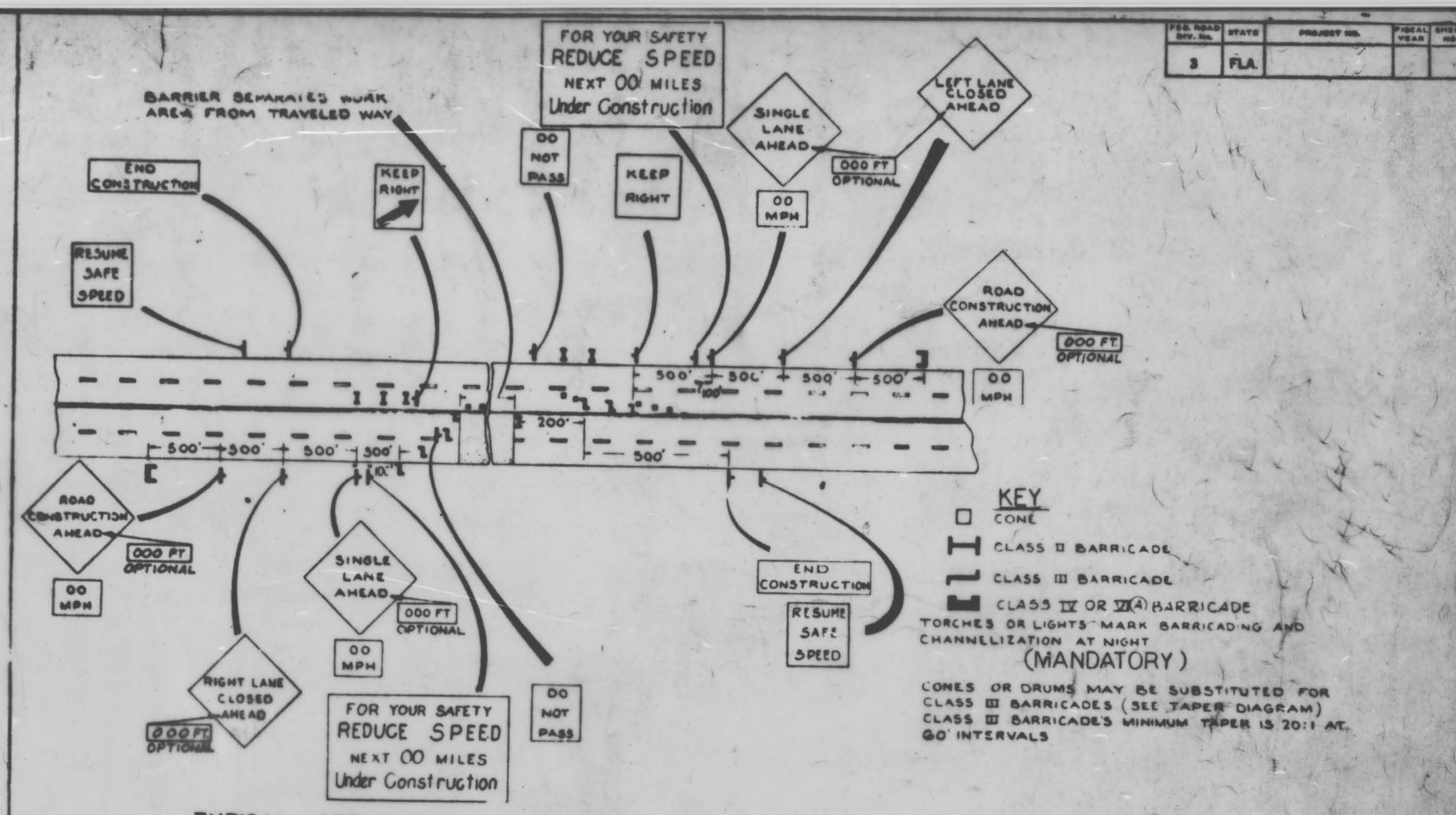
Drawing No. 2 OF 2

Index No. GSE-02-1

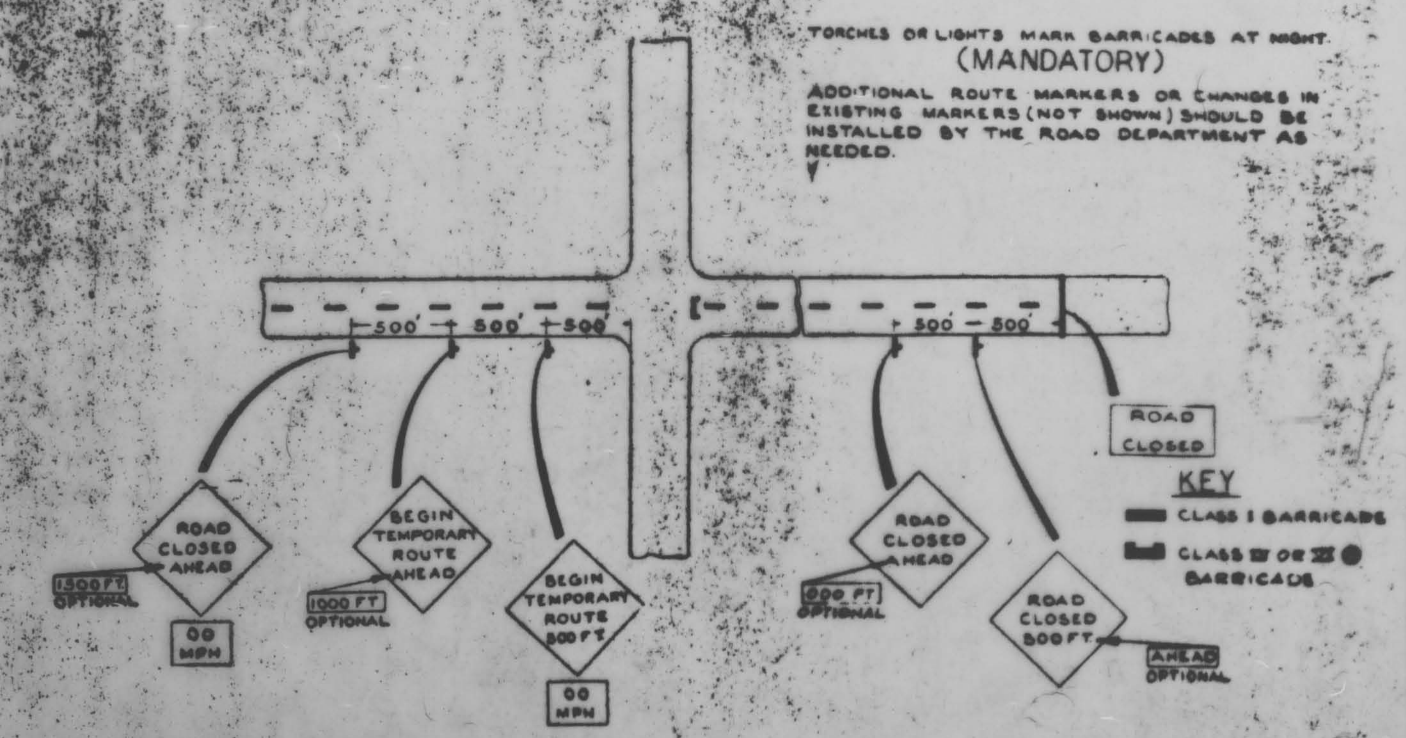
FED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.			



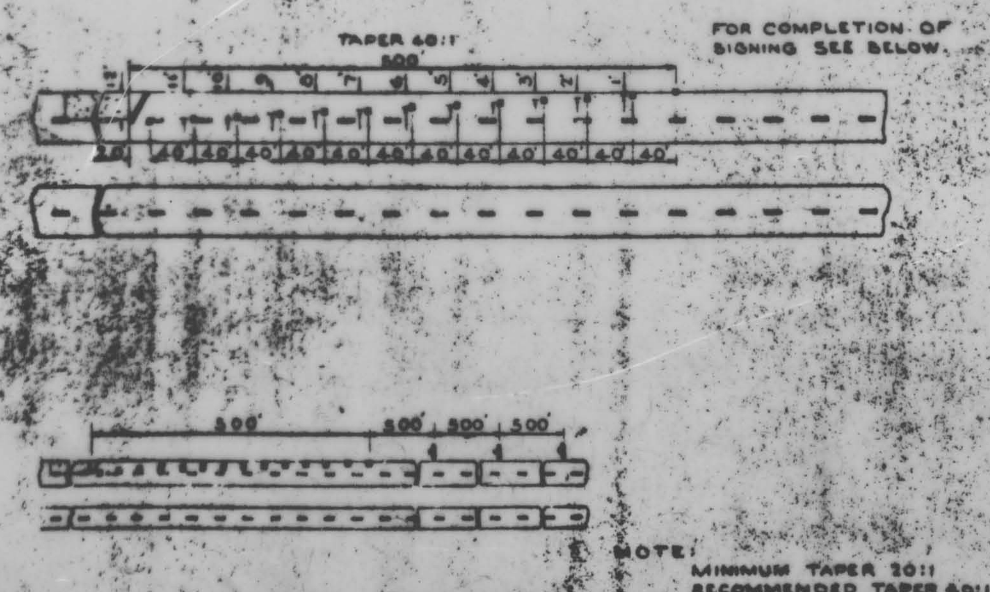
TYPICAL APPLICATION ON DIVIDED FOUR-LANE



TYPICAL APPLICATION ON UNDIVIDED FOUR-LANE



TYPICAL APPLICATION ON TWO-LANE HIGHWAY



TAPER DIAGRAM

CONES AND DRUMS

-GENERAL NOTES-

1. ANY SIGNING REQUIREMENTS NOT COVERED BY THIS INDEX WILL BE IN ACCORDANCE WITH THE "UNIFORM TRAFFIC CONTROL DEVICES MANUAL".
2. STATE ROAD DEPARTMENT TO FURNISH SIGNS AND MARKERS
3. OTHER TRAFFIC CONTROL SIGNS AS DETERMINED BY THE PROJECT ENGINEER AND THE CONTRACTORS SUPERINTENDENT SHALL BE FURNISHED BY THE STATE ROAD DEPARTMENT.
4. OTHER SPECIAL SIGNS MAY BE FURNISHED BY THE CONTRACTOR WITH THE APPROVAL OF THE STATE HIGHWAY ENGINEER.
5. SIGNS SHOWN INDICATE LOCATIONS AND TYPES OF SIGN ONLY.
6. EXACT MESSAGE, ARROW DIRECTIONS AND SUPPLEMENTARY SIGNS TO BE DETERMINED BY THE ENGINEER.
7. SPEED SIGNS TO INDICATE 20 OR 30 MPH AS DIRECTED BY THE ENGINEER.
8. DRIVE WITH CAUTION SIGNS TO BE PLACED AT INTERVALS THROUGH CONSTRUCTION AREA AS DIRECTED BY THE ENGINEER.
9. THE CLASS II AND CLASS III BARRICADES ARE INTERCHANGEABLE UNLESS ONE TYPE OR THE OTHER IS SPECIFICALLY CALLED FOR ELSEWHERE IN THE PLANS.
10. THE STRIPES ON THE BARRICADES SHALL POINT DOWNWARDS TOWARDS THE DIRECTION OF FLOW OF TRAFFIC AROUND THE BARRICADE, ON THE SIDE FACING APPROACHING TRAFFIC.

[redacted]

STANDARD WARNING SIGN DETAILS

Revisions: Dates	Revisions: Descriptions		Names	Dates
9-63 J5	ADDITIONAL SIGNS & NOTES ADDED SHEET 1 & 2	Detailed by		
12 65 WLB	[illegible]	Checked by		
5-4-66 GCB	NOTES 7 & 8 HAVE BEEN ADDED	Quantities by		
		Checked by		
		Traced by	n.f.w	3-65

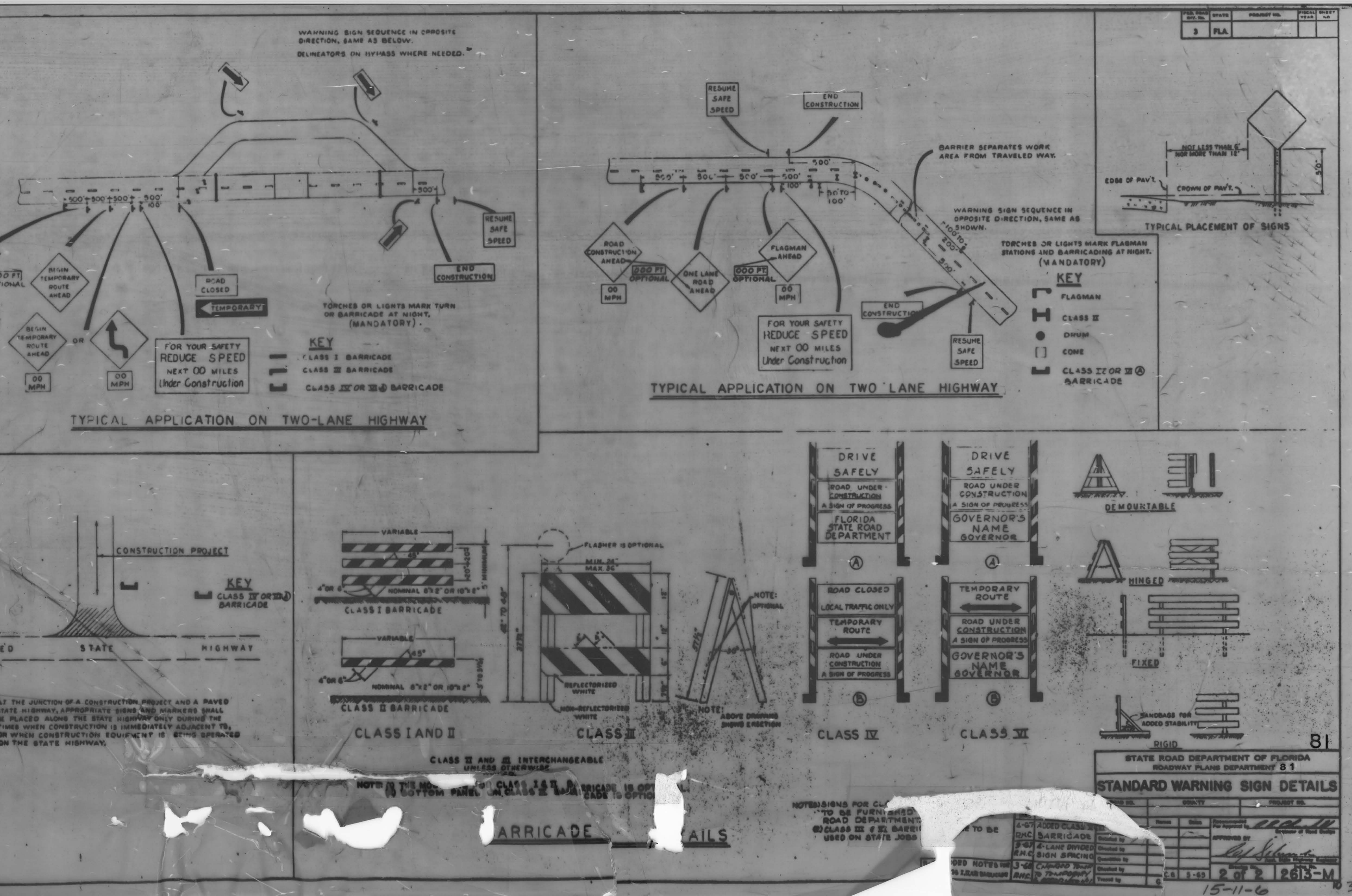
ROAD NO. | COUNTY | PROJECT NO.

Recommended For Approval by [signature] Engineer of Road Design

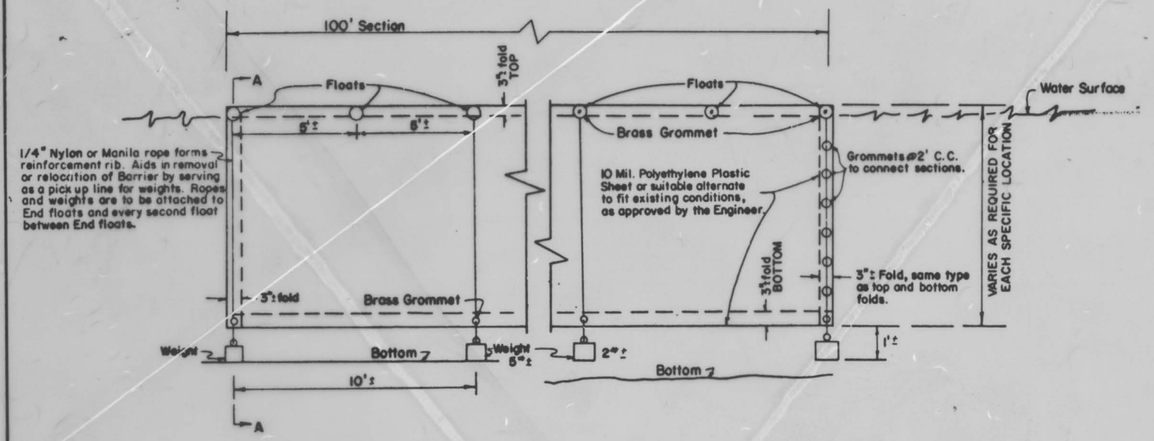
APPROVED BY [signature] Asst. State Highway Engineer

Drawing No. 1 of 2

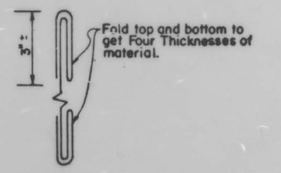
Index No. 2613-M



FED. ROAD DIV. NO. | STATE | PROJECT NO. | FISCAL YEAR | SHEET NO.
3 FLA.
WARNING SIGN SEQUENCE IN OPPOSITE DIRECTION, SAME AS BELOW.
DELINEATORS ON BYPASS WHERE NEEDED.
RESUME SAFE SPEED
END CONSTRUCTION
ROAD CLOSED
TEMPORARY
BEGIN TEMPORARY ROUTE AHEAD
00 MPH
FOR YOUR SAFETY REDUCE SPEED NEXT 00 MILES Under Construction
TORCHES OR LIGHTS MARK TURN OR BARRICADE AT NIGHT. (MANDATORY).
KEY
CLASS I BARRICADE
CLASS III BARRICADE
CLASS IV OR VI Ⓐ BARRICADE
TYPICAL APPLICATION ON TWO-LANE HIGHWAY
BARRIER SEPARATES WORK AREA FROM TRAVELED WAY.
WARNING SIGN SEQUENCE IN OPPOSITE DIRECTION, SAME AS SHOWN.
TORCHES OR LIGHTS MARK FLAGMAN STATIONS AND BARRICADING AT NIGHT. (MANDATORY)
ROAD CONSTRUCTION AHEAD
000 FT OPTIONAL
ONE LANE ROAD AHEAD
FLAGMAN AHEAD
KEY
FLAGMAN
CLASS II
DRUM
CONE
CLASS IV OR VI Ⓐ BARRICADE
TYPICAL APPLICATION ON TWO LANE HIGHWAY
NOT LESS THAN 6', NOR MORE THAN 12'
EDGE OF PAV'T.
CROWN OF PAV'T.
TYPICAL PLACEMENT OF SIGNS
CONSTRUCTION PROJECT
KEY
CLASS IV OR VI Ⓐ BARRICADE
STATE HIGHWAY
AT THE JUNCTION OF A CONSTRUCTION PROJECT AND A PAVED STATE HIGHWAY, APPROPRIATE SIGNS AND MARKERS SHALL BE PLACED ALONG THE STATE HIGHWAY ONLY DURING THE TIMES WHEN CONSTRUCTION IS IMMEDIATELY ADJACENT TO, OR WHEN CONSTRUCTION EQUIPMENT IS BEING OPERATED ON THE STATE HIGHWAY.
VARIABLE
NOMINAL 8"x2" OR 10"x8"
CLASS I BARRICADE
CLASS II BARRICADE
CLASS I AND II
FLASHER IS OPTIONAL
MIN. 24" MAX. 36"
REFLECTORIZED WHITE
NON-REFLECTORIZED WHITE
CLASS III
NOTE: OPTIONAL
NOTE: ABOVE DRAWING SHOWS ERECTION
DRIVE SAFELY
ROAD UNDER CONSTRUCTION A SIGN OF PROGRESS
FLORIDA STATE ROAD DEPARTMENT
GOVERNOR'S NAME GOVERNOR
ROAD CLOSED
LOCAL TRAFFIC ONLY
TEMPORARY ROUTE
CLASS IV
CLASS VI
DEMOUNTABLE
HINGED
FIXED
SANDBAGS FOR ADDED STABILITY
RIGID
CLASS II AND III INTERCHANGEABLE UNLESS OTHERWISE
BARRICADE DETAILS
STATE ROAD DEPARTMENT OF FLORIDA
ROADWAY PLANS DEPARTMENT 81
STANDARD WARNING SIGN DETAILS
81
2 of 2
2613-M
15-11-6

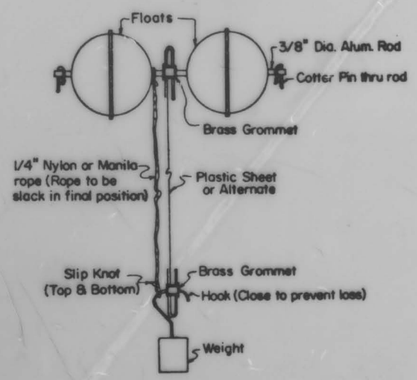


FRONT VIEW



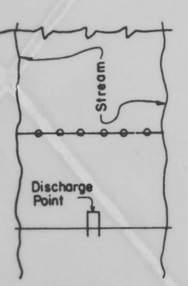
SIDE VIEW

FOLDING DETAIL

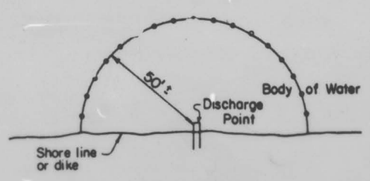


SECTION A-A

NOTE: At shallow water locations the plastic sheet or suitable alternate may be fastened to stakes driven into the bottom in lieu of floats and weights.



TYPICAL APPLICATION



TYPICAL APPLICATION

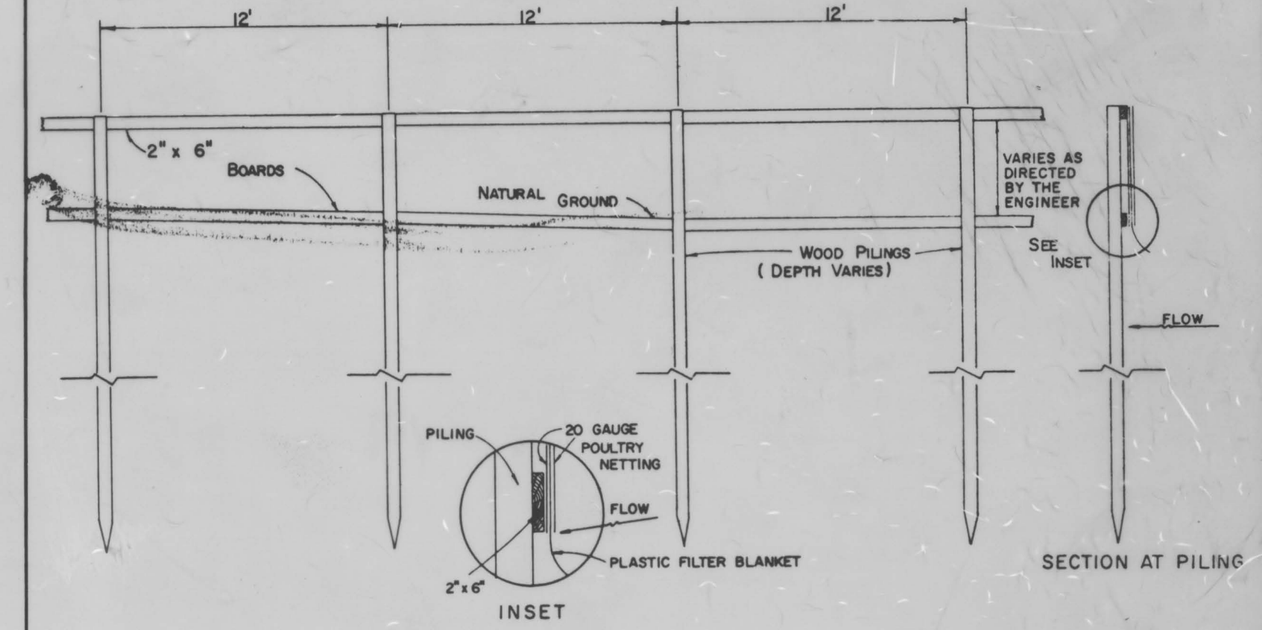
GENERAL NOTES

Silt Barrier to Prevent drifting of Silt caused by discharge of Storm Sewers during Construction, dredging or filling Operations.

Exact placement of silt barrier shall be so as to effectively control silt dispersion under the conditions present on a particular project.

The details shown on this sheet are suggested methods only. Alternate solutions and usage of materials may be used as approved by the Engineer.

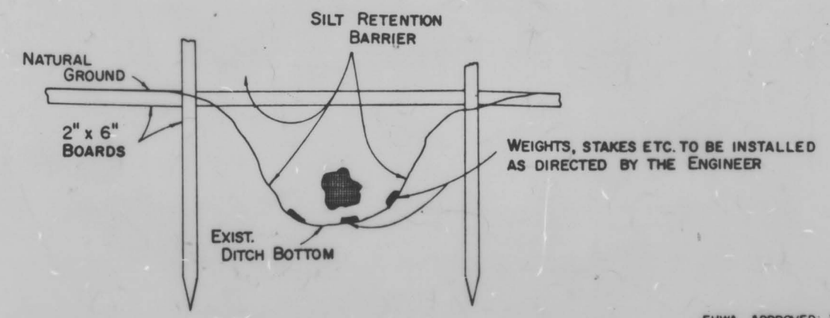
DETAIL OF FLOATING SILT BARRIER



DETAIL OF STAKED SILT BARRIER

NOTES

THE FRAME WILL BE CONSTRUCTED WITH 2" x 6" BOARDS. PILINGS WILL BE A MINIMUM OF 6" IN DIAMETER AT THE BUTT END. THE DEPTH OF PILINGS WILL BE AT THE DISCRETION OF THE PROJECT ENGINEER. ATTACHED TO THE FRAME WILL BE 20 GAUGE POULTRY NETTING WITH 1" NET. THE SILT RETAINER WILL BE PLASTIC FILTER BLANKET, EXTENDING FROM THE TOP 2" X 6" BOARD TO 4' BEYOND THE BOTTOM 2" X 6" BOARD. IN THE DITCH BOTTOM, THE BLANKET AND POULTRY NETTING SHOULD EXTEND TO THE DITCH BOTTOM AND BE ANCHORED IN PLACE BY MEANS AVAILABLE TO THE CONTRACTOR TO EFFECTIVELY PREVENT SILT FROM ESCAPING FROM UNDER THE BOTTOM OF THE BARRIER. (SEE DETAIL BELOW)



DETAIL SHOWING PLACEMENT OF STAKED SILT BARRIER AT EXISTING DITCH LOCATIONS

STATE PROJ. NO.	SHEET NO.
	82

FHWA APPROVED: 3-13-75

FLORIDA DEPARTMENT OF TRANSPORTATION
Road Design Section

ERROSION CONTROL DEVICES
SILT BARRIERS

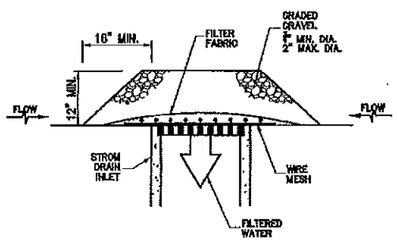
REVISIONS			INITIALS	DATES
Dates	Descriptions	Designed by	WJR	5/74
		Checked by	HLB	6/74
		Quantities by		
		Checked by		
		Supervised by	DCB	

Recommended for approval
by _____
Deputy Design Engineer - Roadways

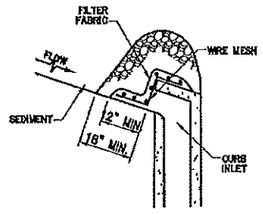
Approved
by _____
State Design Engineer

DRAWING NO.	INDEX NO.
1 OF 1	GEC-04

STANDARD MYLAR SHEET
YOUR PERMANENT FILES



DROP INLET PROTECTION-GRAVEL



CURB INLET PROTECTION-GRAVEL

GRAVEL APPLICATIONS (TYP.) OR APPROVED ALTERNATIVE

NOTES FOR INLET PROTECTION GRAVEL:

1- INSTALLATION/APPLICATION CRITERIA:

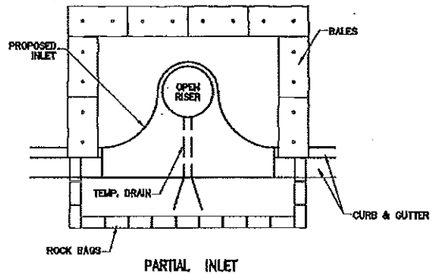
- PLACE WIRE MESH (WITH ½ INCH OPENINGS) OVER THE INLET GRATE EXTENDING ONE FOOT PAST THE GRATE IN ALL DIRECTIONS.
- PLACE FILTER FABRIC OVER THE MESH. FILTER FABRIC SHOULD BE SELECTED BASED ON SOIL TYPE.
- PLACE GRADED GRAVEL, TO A MINIMUM DEPTH OF 12 INCHES, OVER THE FILTER FABRIC AND EXTENDING 18 INCHES PAST THE GRATE IN ALL DIRECTIONS.

2- MAINTENANCE:

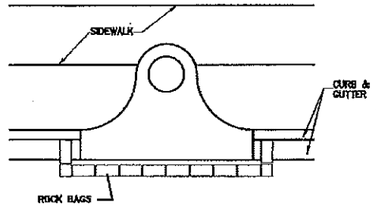
- INSPECT INLET PROTECTION AFTER EVERY LARGE STORM EVENT AND AT A MINIMUM OF ONCE MONTHLY.
- REMOVE SEDIMENT ACCUMULATED WHEN IT REACHES 4 INCHES IN DEPTH.
- REPLACE FILTER FABRIC AND CLEAN OR REPLACE GRAVEL IF CLOGGING IS APPARENT.

3- LIMITATIONS:

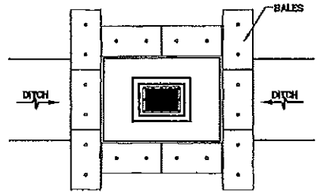
- RECOMMENDED FOR MAXIMUM DRAINAGE AREA OF ONE ACRE.
- EXCESS FLOWS MAY BYPASS THE INLET REQUIRING DOWN GRADIENT CONTROLS.
- PONDING WILL OCCUR AT INLET.



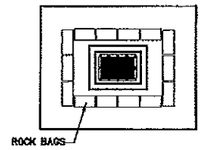
PARTIAL INLET



COMPLETED INLET



DITCH BOTTOM INLET



SWALE 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.

6-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

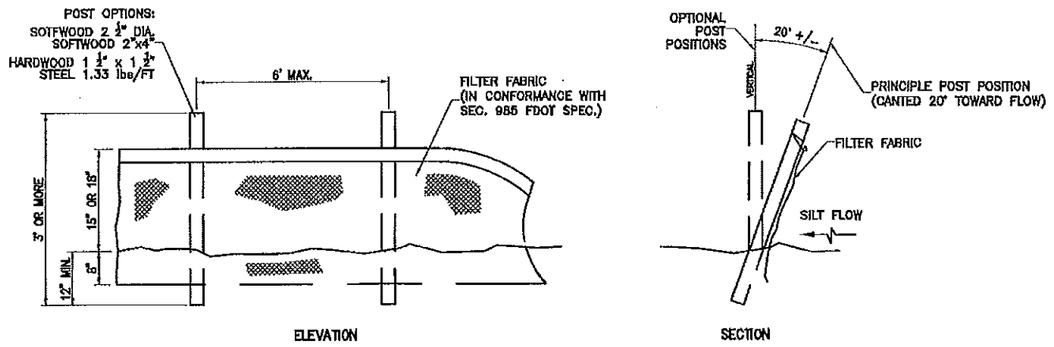
REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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

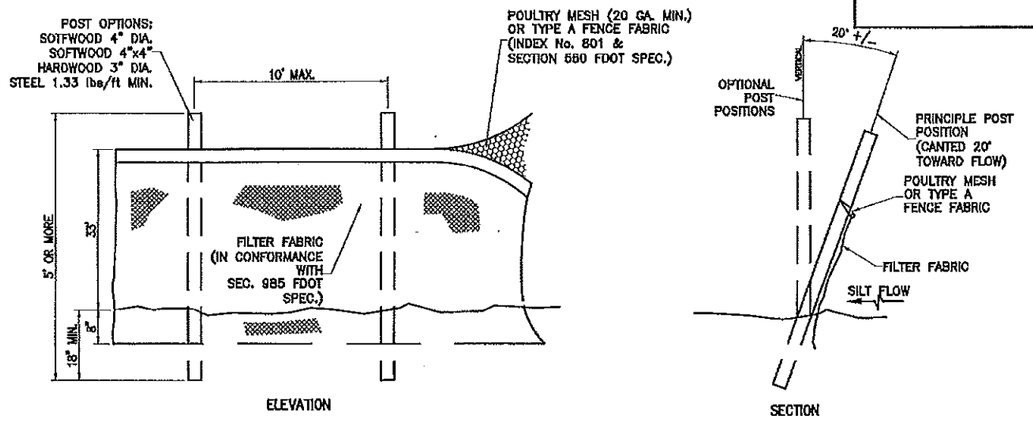
MIAMI-DADE COUNTY

PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

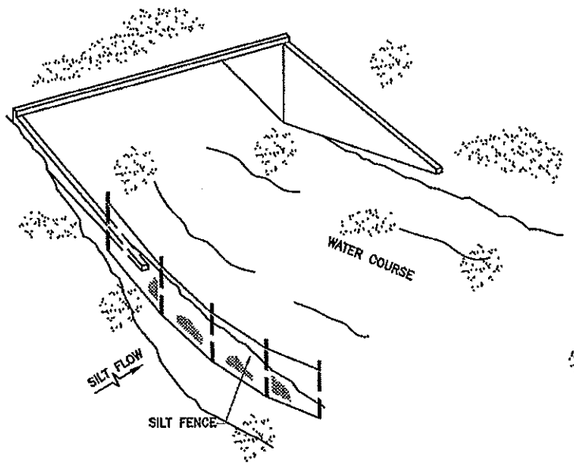
INLET PROTECTION SYSTEMS DETAILS

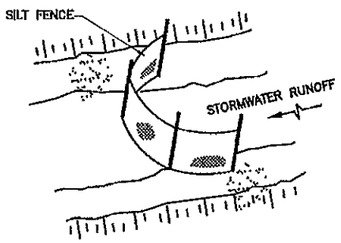


TYPE III SILT FENCE (TYP.)

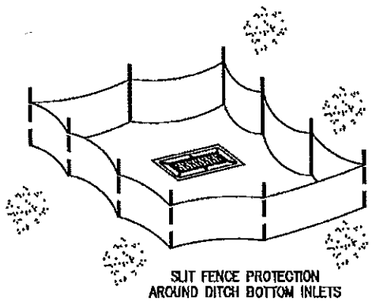


TYPE IV SILT FENCE (TYP.)



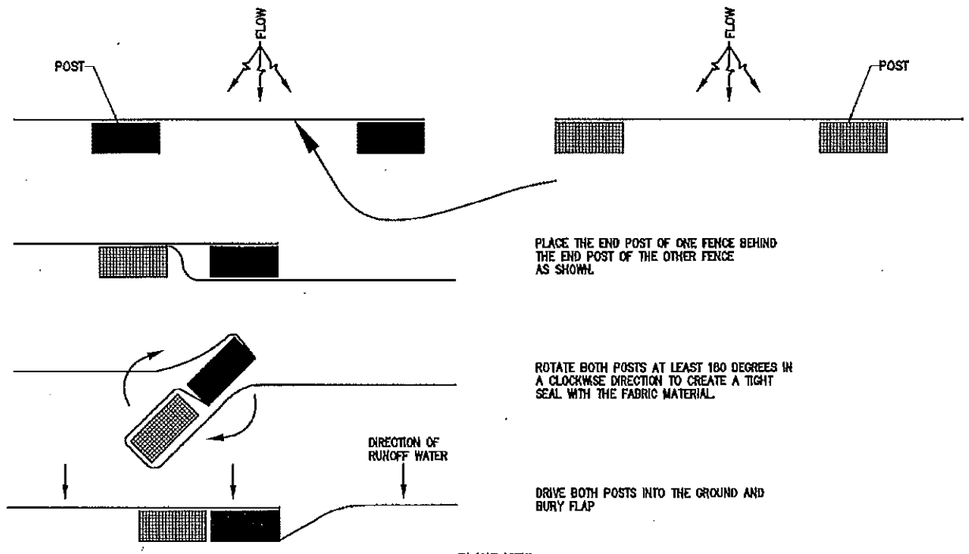


SILT FENCE PROTECTION IN
DITCHES WITH INTERMITTENT FLOW



SILT FENCE PROTECTION
AROUND DITCH BOTTOM INLETS

SILT FENCE APPLICATIONS (TYP.)



JOINING TWO SILT FENCES (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.

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

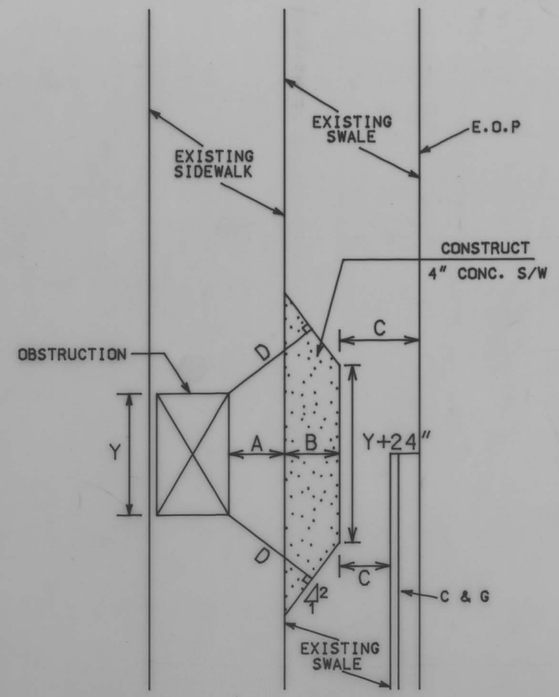
REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

	NAME	DATE		NAME	DATE
DESIGNED BY			QUALITY BY		
CHECKED BY			CHECKED BY		
SUPERVISED BY					

MIAMI-DADE COUNTY

PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT
HIGHWAY DIVISION
STEPHEN P. CLARK CENTER
111 NW 1 ST
MIAMI, FLORIDA 33128

SEDIMENT BARRIERS DETAILS



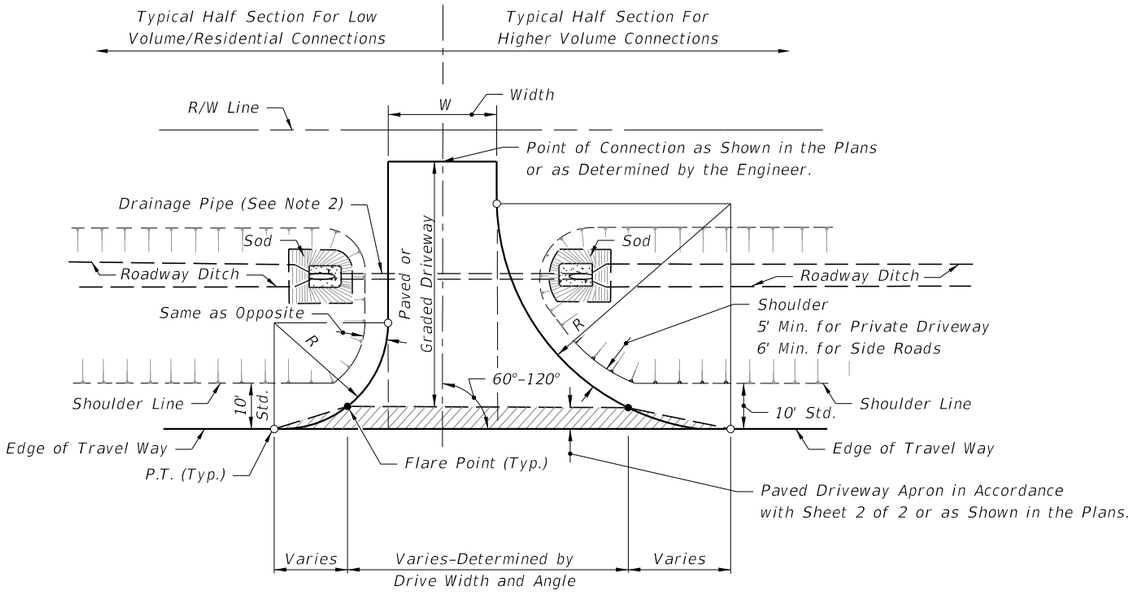
SIDEWALK WIDENING DETAIL

CRITERIA TO BE USED TO AVOID RELOCATING EXISTING OBSTRUCTIONS WHERE SWALE AREA IS AVAILABLE:

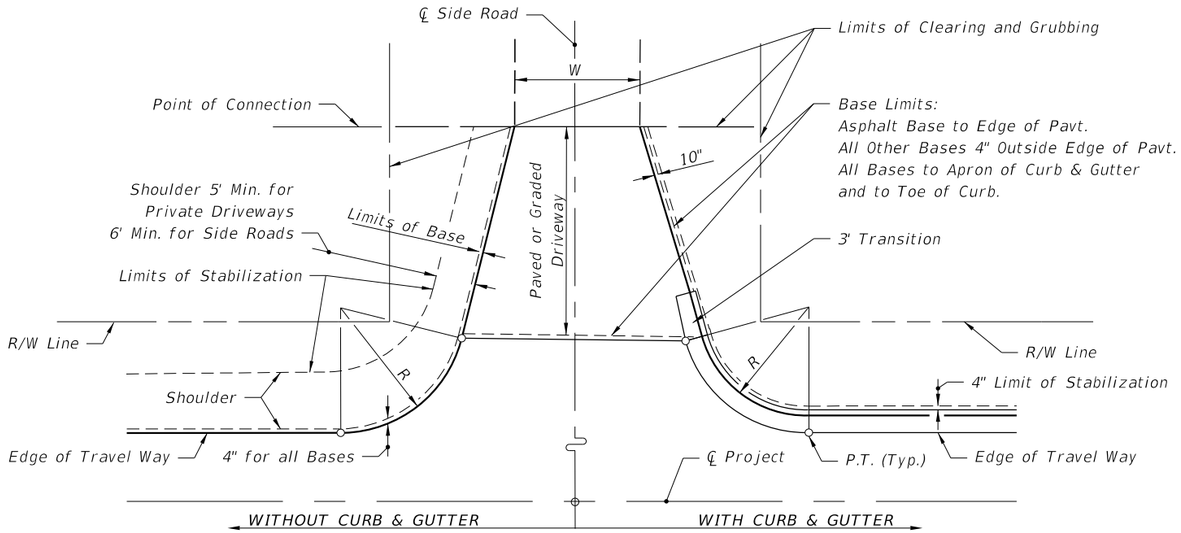
$Y \leqslant 24"$ AND $A < 32"$ OR $Y > 24"$ AND $A < 36"$

THEN: A+B= 36" MIN.
B= 24" MIN.
FOR C&G SECTIONS, IF $C \leqslant 24"$ THEN "B" SHALL EXTEND TO BACK OF CURB.
$C \geqslant 4'$ FOR SECTIONS WITHOUT CURB & GUTTER
D= 36" MIN.

DADE COUNTY PUBLIC WORKS DEPT. HIGHWAY DIVISION		
DESIGN DM / DRAWN DM / CHECK M.T / PROPOSED M.T	SIDEWALK WIDENING DETAIL I-PR-A	
SUBMITTED HIGHWAY ENGINEER DATE	RECOMMENDED CHIEF ENGINEER PROJ.	APPROVED DIRECTOR SHEET 1 OF 1

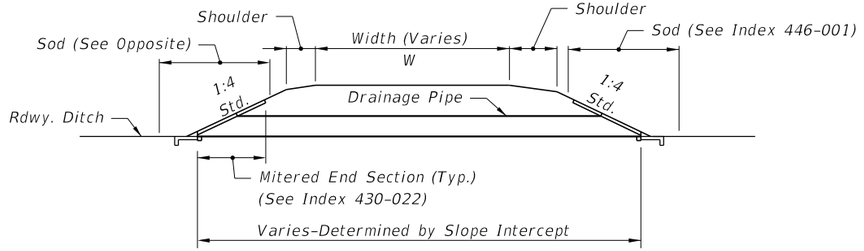


PLAN

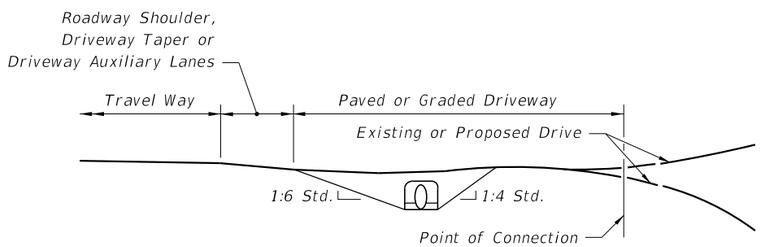


PLAN

LIMITS OF CLEARING & GRUBBING, STABILIZING AND BASE AT DRIVEWAYS



DRAINAGE SECTION



DRIVEWAY PROFILE AND END VIEW

FLUSH SHOULDER ROADWAY - DRIVEWAY CONSTRUCTION

DRIVEWAY ENTRANCES NOTES:

1. See Plans for Driveway Width (W) and Return Radius (R).

2. See the Plans for drainage pipe size and length or as determined by the Engineer. The size will be no less than 15" diameter or equivalent.

3. Stable material may be required for graded driveways to private property as directed by the Engineer in accordance with Specification 102-8.

4. The driveway pavement requirement at graded connections may be waived for connections serving one or two homes or field entrances with less than 20 trips per day, or 5 trips per hour as approved by the Engineer, or when not shown in the Plans.

5. Point of Connection:

   a. Construct paved driveways for all paved connecting facilities. The connecting point will be determined by the Engineer.

   b. Construct paved driveways for all business, commercial, industrial or high volume residential graded connecting facilities. Construct the connecting point 30'-0' from edge of travel way or at R/W line, whichever is less.

   c. Construct paved driveways for all side road connections. The R/W is the connecting point.

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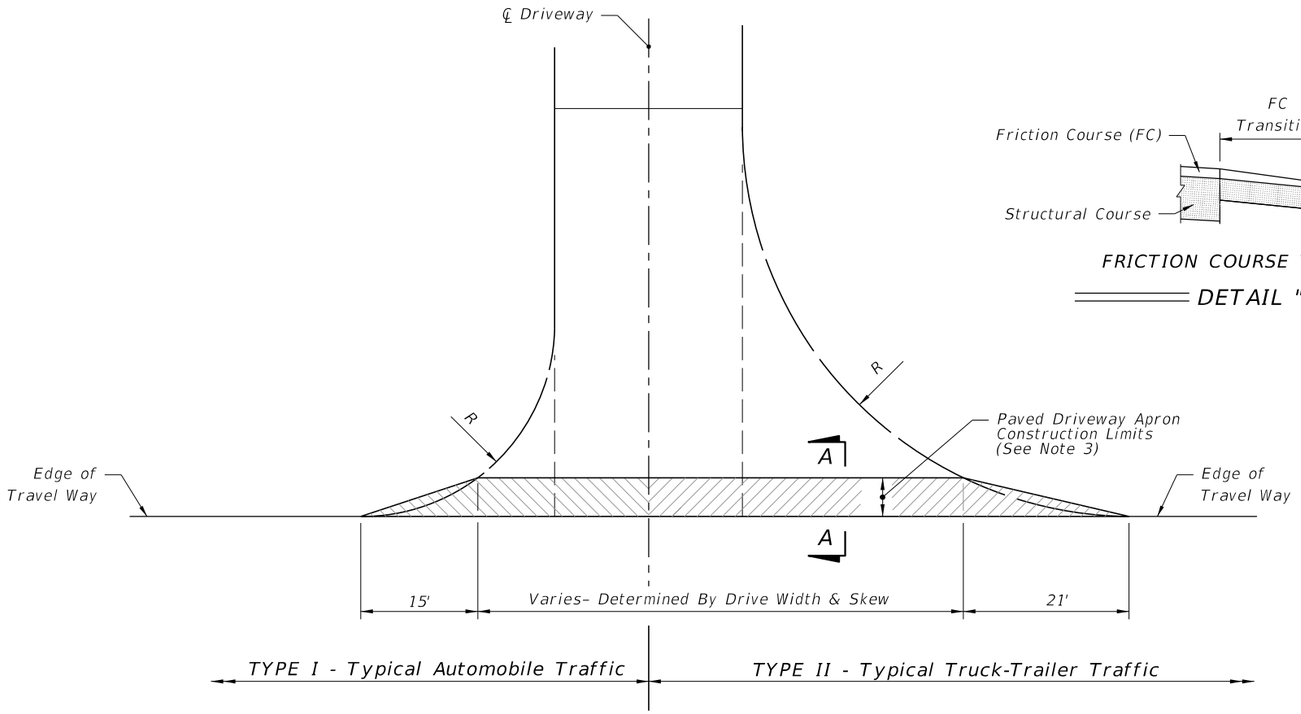
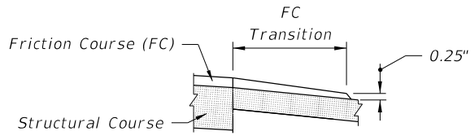
LAST REVISION	REVISION	DESCRIPTION:				
11/01/18			FY 2022-23 STANDARD PLANS	PAVED AND GRADED DRIVEWAYS	INDEX 330-001	SHEET 1 of 2

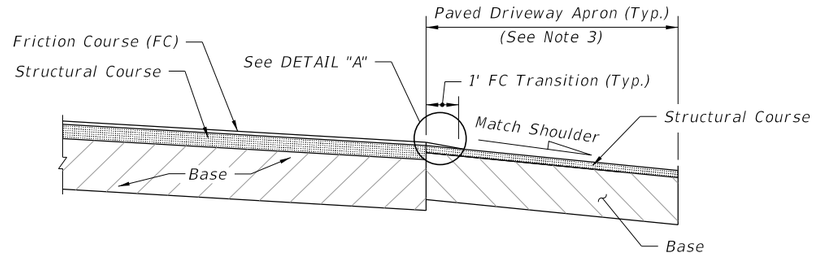


DRIVEWAY TYPES

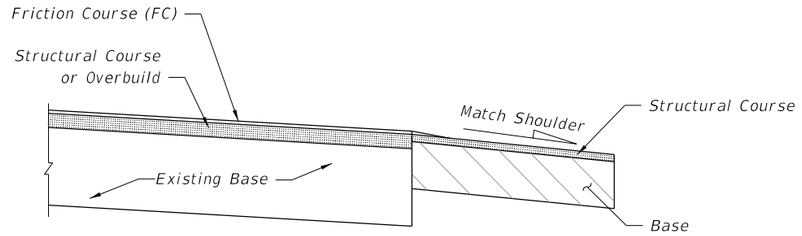


FRICTION COURSE TRANSITION

DETAIL "A"



SECTION AA - NEW CONSTRUCTION



SECTION AA - RESURFACING

NEW DRIVEWAY

AREAS FOR ONE 5' DEEP DRIVEWAY APRON (SY)

Drive Width (Ft.)	Intersection			
	Normal		Skewed	
	Type I	Type II	Type I	Type II
12	26	51	31	60
14	27	52	33	61
16	28	53	34	63
18	29	54	35	64
20	31	55	37	65
22	32	56	38	67
24	33	57	39	68
26	34	58	40	69
28	35	59	42	70
30	36	61	43	72
32	37	62	44	73
34	38	63	46	74
36	39	64	47	76
38	41	65	48	77
40	42	66	49	78
42	43	67	51	79
44	44	68	52	81
46	45	69	53	82
48	46	71	55	83
50	47	72	56	85
52	48	73	57	86
54	49	74	58	87
56	51	75	60	88
58	52	76	61	90
60	53	77	62	91

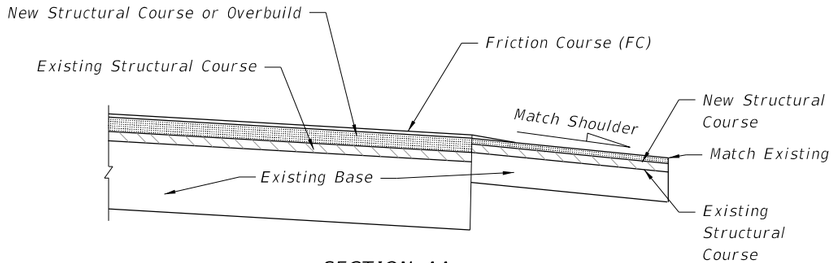
MATERIAL TYPES AND THICKNESSES FOR PAVED CONNECTIONS

Course	Materials	Minimum Thickness (in.)	
		Connections	Roadway*
Structural	Asphaltic Concrete	1½"	1½"
Bases	Optional Base (See Specification 285)	O.B.G. 2	O.B.G. 3

* Travel way flares (bypass lanes), auxiliary lanes serving more than a single connection, and all median crossovers including their auxiliary lanes and/or transition tapers.

NOTES

1. Use same material for driveway structural course and roadway overbuild or structural course, except as approved by the Engineer for graded connections. Other Department–approved equivalent pavements may be used at the discretion of the Engineer.
2. Auxiliary lanes and their transition tapers shall be the same structure as the abutting travel way pavement thickness or any of the roadway structures tabulated above, whichever is thicker.
3. If an asphalt base course is used for a driveway, its thickness may be increased to match the edge of travel way pavement thickness in lieu of a separate structural course. 6" of Portland cement concrete will be acceptable in lieu of the asphalt base and structural courses. See Notes 4 and 5 below.
4. A structural course is required for flexible pavements when they are used for auxiliary lanes serving more than a single connection.
5. Use Class NS concrete at least 6" thick for driveways paved with Portland Cement Concrete. Construct in accordance with Specifications 347, 350, and 522.
6. The Department may require other pavement criteria where local conditions warrant.



SECTION AA

RESURFACING EXISTING DRIVEWAY

GENERAL NOTES:

1. Driveways are to be constructed or resurfaced for low volume (single family, duplex, farm, etc.) residential connections as directed by the Engineer.
2. Driveways construction is not required for low volume residential connections where roadway shoulders are paved.
3. Match existing paved shoulder widths ≥ 4'. For all other shoulders conditions, construct at 5' wide.
4. Connections beyond the shoulder width are to be constructed as directed by the Engineer.
5. Construct Driveway Base in accordance with Specification 286.
6. Payment for structural course and friction course is to be included in roadway pavement pay item.

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LAST REVISION	REVISION	DESCRIPTION:			
11/01/18			FY 2022-23 STANDARD PLANS	PAVED AND GRADED DRIVEWAYS	INDEX 330-001 / SHEET 2 of 2

GENERAL NOTES:

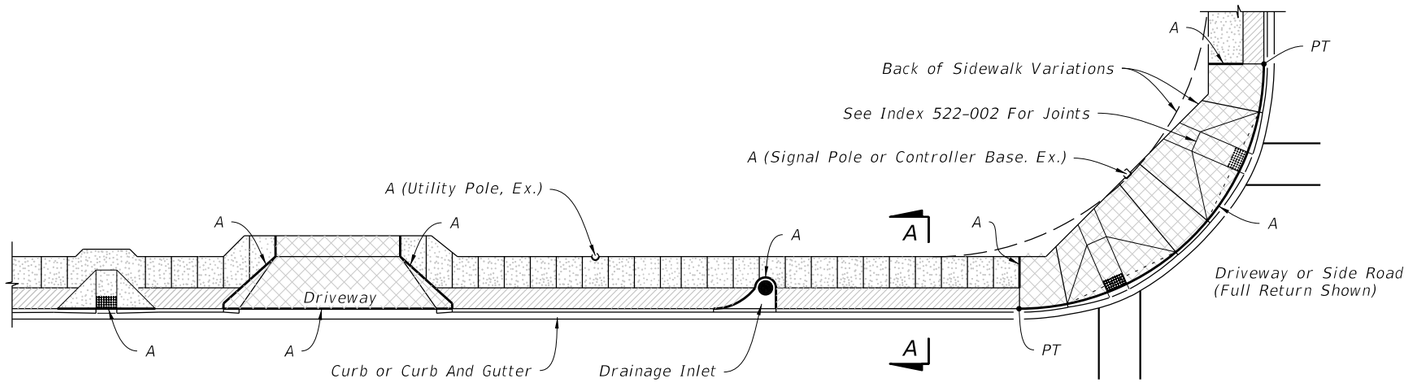
1. Construct sidewalks in accordance with Specification 522. Use 6" concrete for Sidewalks and Curb Ramps Located within Curb Returns (See Plan View). Install all other concrete with thickness as shown, unless otherwise detailed in the Plans.

2. Include detectable warnings on sidewalk curb ramps in accordance with Index 522-002.

3. For Driveways see Index 522-003.

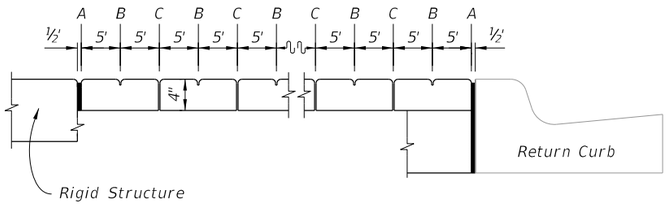
4. Bond breaker material can be any impermeable coated or sheet membrane or preformed material having a thickness of not less than 6 mils and not more than ½".

5. Construct sidewalks with Edge Beam through the limits of any surface mounted Pedestrian/Bicycle Railing or Pipe Guiderail shown in the plans. (See RAILING DETAIL)

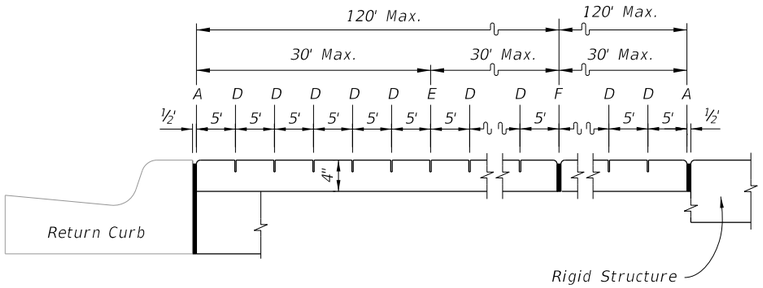


PLAN

SIDEWALK WITH UTILITY STRIP



OPEN JOINTS



SAWED JOINTS

LONGITUDINAL SECTION

LEGEND:

A- ½" Expansion Joints (Preformed Joint Filler) between the sidewalk and; driveways, sidewalk-intersections, and all other fixed objects (e.g. drainage inlets and utility poles).

B- ⅛" Dummy Joints, Tooled

C- ⅛" Formed Open Joints

D- 3/16" Saw Cut Joints, 1½" Deep (within 96 hours) Max. 5' Centers

E- 3/16" Saw Cut Joints, 1½" Deep (within 12 hours) Max. 30' Centers Joint(s) Required When Length Exceeds 30'

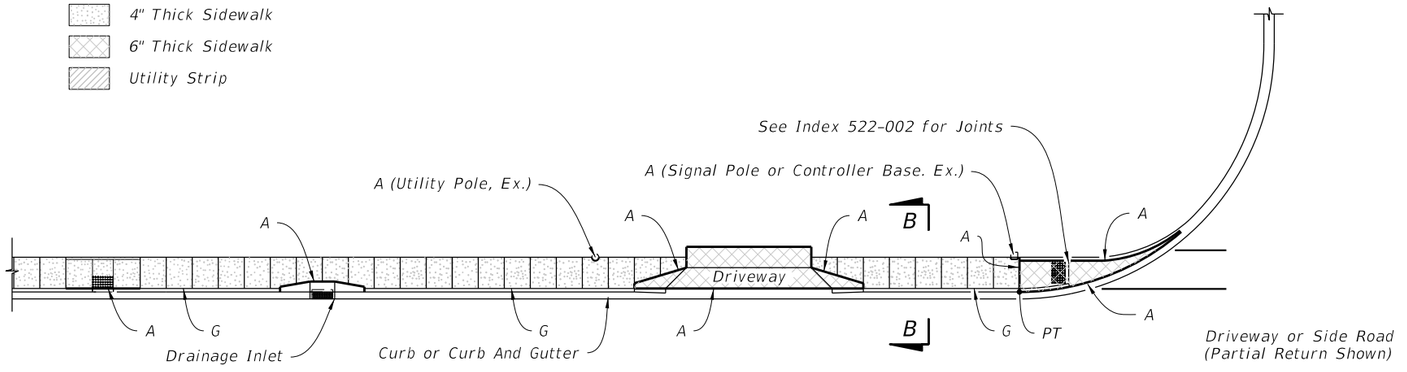
F- ½" Expansion Joint When Run Of Sidewalk Exceeds 120'. Intermediate locations when called for in the plans or at locations as directed by the Engineer.

G- Cold Joint With Bond Breaker, Tooled

SIDEWALK JOINTS

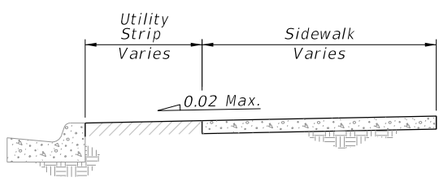
LEGEND:

- 4" Thick Sidewalk
- 6" Thick Sidewalk
- Utility Strip

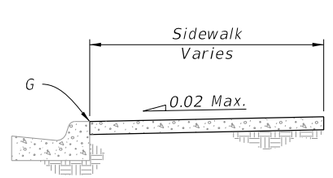


PLAN

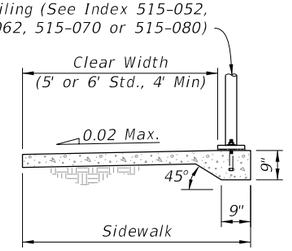
SIDEWALK WITHOUT UTILITY STRIP



SECTION A-A



SECTION B-B



Varies Based on Railing Used

RAILING DETAIL

GENERAL NOTES AND CONCRETE SIDEWALK ON CURBED ROADWAYS

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/18			FY 2022-23 STANDARD PLANS	CONCRETE SIDEWALK	522-001	1 of 2

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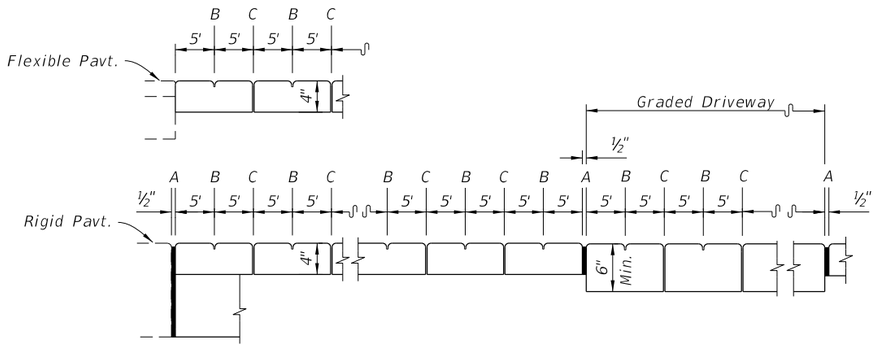
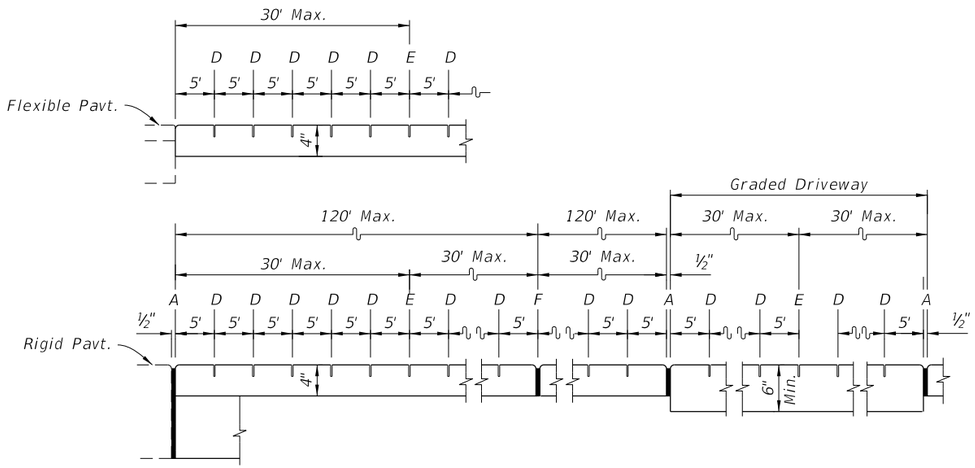


OPEN JOINTS



SAWED JOINTS

LONGITUDINAL SECTION

LEGEND:

A– ½" Expansion Joints (Preformed Joint Filler) between the sidewalk and driveways, sidewalk-intersections, and all other fixed objects (e.g. drainage inlets and utility poles).

B– ⅛" Dummy Joints, Tooled

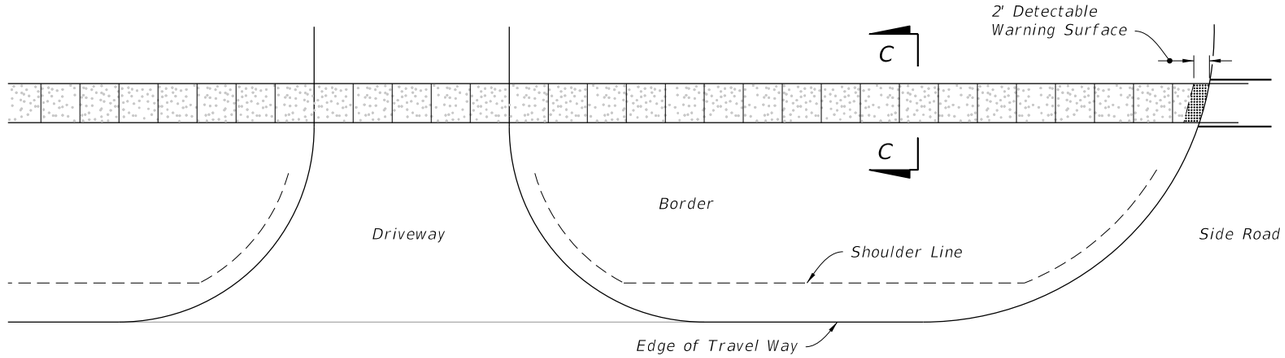
C– ⅛" Formed Open Joints

D– 3/16" Saw Cut Joints, 1½" Deep (within 96 hours) Max. 5' Centers

E– 3/16" Saw Cut Joints, 1½" Deep (within 12 hours) Max. 30' Centers Joint(s) Required When Length Exceeds 30'

F– ½" Expansion Joint When Run Of Sidewalk Exceeds 120'. Intermediate locations when called for in the plans or at locations as directed by the Engineer.

SIDEWALK JOINTS

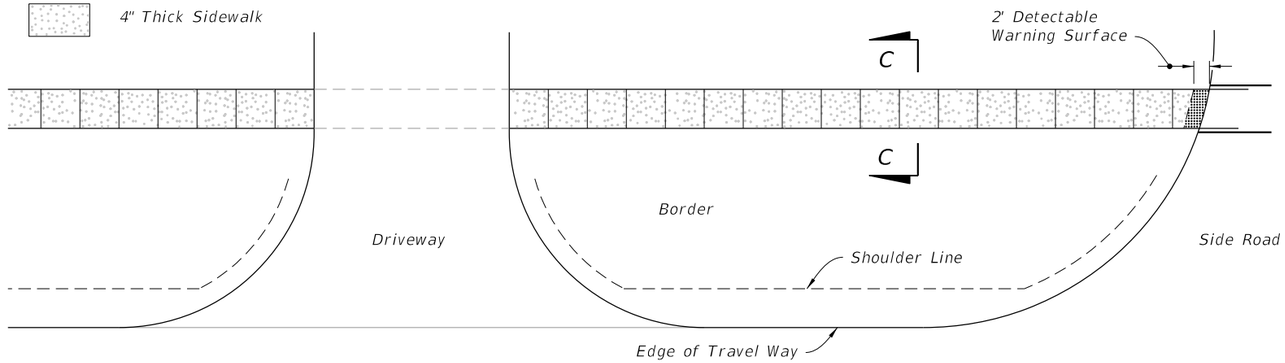


PLAN

CONTINUOUS SIDEWALK

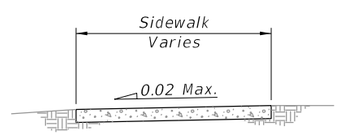
LEGEND:

4" Thick Sidewalk



PLAN

DISCONTINUOUS SIDEWALK



SECTION C-C

CONCRETE SIDEWALK ON FLUSH SHOULDER ROADWAYS

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/18			FDOT FY 2022-23 STANDARD PLANS	CONCRETE SIDEWALK	522-001	2 of 2

9/22/2021 8:49:07 AM

GENERAL NOTES:

1. Cross Slopes and Grades:

   A. Sidewalk, ramp, and landing slopes (i.e. 0.02, 0.05, and 1:12) shown in this Index are maximums. With approval of the Engineer, provide the minimum feasible slope where the requirements cannot be met.

   B. Landings must have cross-slopes less than or equal to 0.02 in any direction.

   C. Maintain a single longitudinal slope along each side of the curb ramp. Ramp slopes are not required to exceed 15 feet in length.

   D. Joints permitted at the location of Slope Breaks. Otherwise locate joints in accordance with Index 522-001. No joints are permitted within the ramp portion of the Curb Ramp.

2. Curb, Curb and Gutter and/or Sidewalk:

   A. Refer to Index 522-001 for concrete thickness and sidewalk details.

   B. Remove any existing curb, curb and gutter, or sidewalk to the nearest joint beyond the curb transition or to the extent that no remaining section is less than 5 feet long.

   C. Width of Curb Ramp is 4'-0" minimum. Match sidewalk or Shared Use Path width as shown in the Plans.

3. Curb Ramp Alpha-Identification:

   A. Sidewalk curb ramp alpha-identifications (e.g. CR-A) are provided for reference purposes in the Plans.

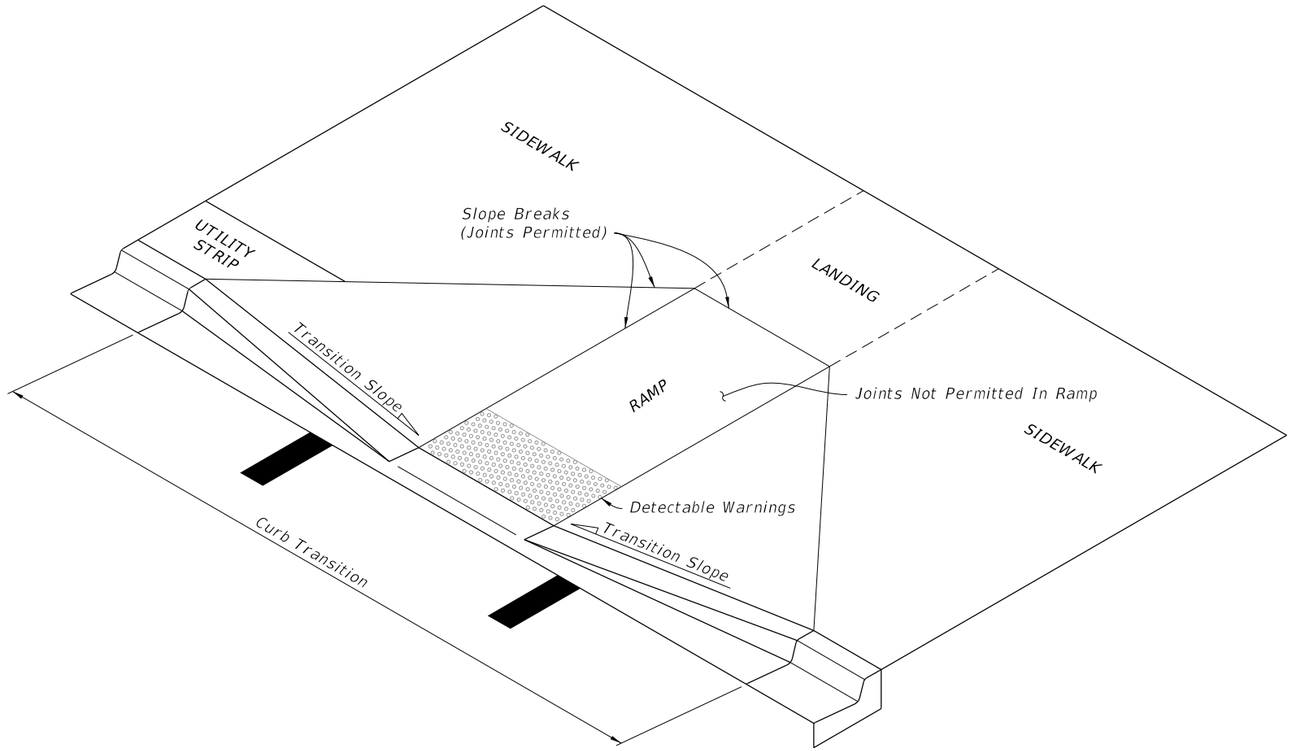
   B. Alpha-identifications CR-I and CR-J are intentionally omitted.

4. Detectable Warnings:

   A. Install detectable warnings in accordance with Specification 527.

   B. Place detectable warnings across the full width of the ramp or landing, to a minimum depth of 2 feet measured perpendicular to the curb line and no greater than 5 feet from the back of the curb or edge of pavement.

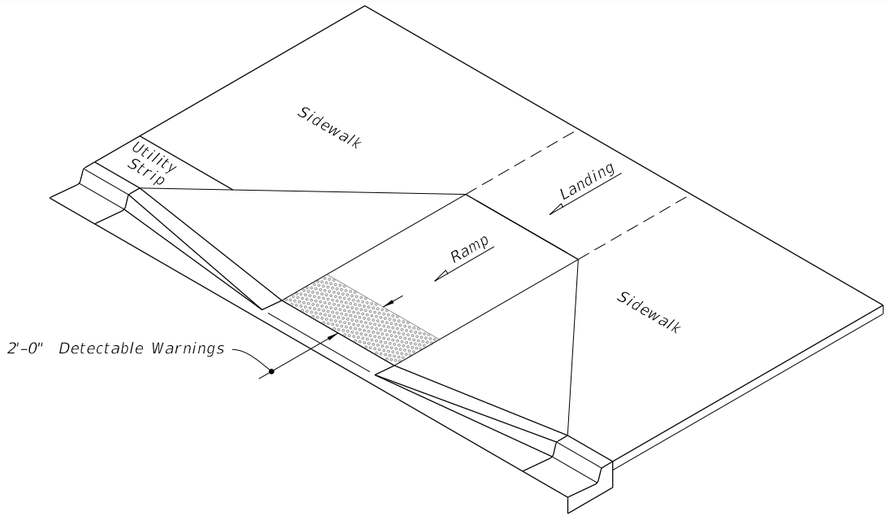
   C. If detectable warnings are shown in the Plans on slopes greater than 5%, align the truncated domes with the centerline of the ramp; otherwise, the truncated domes are not required to be aligned.



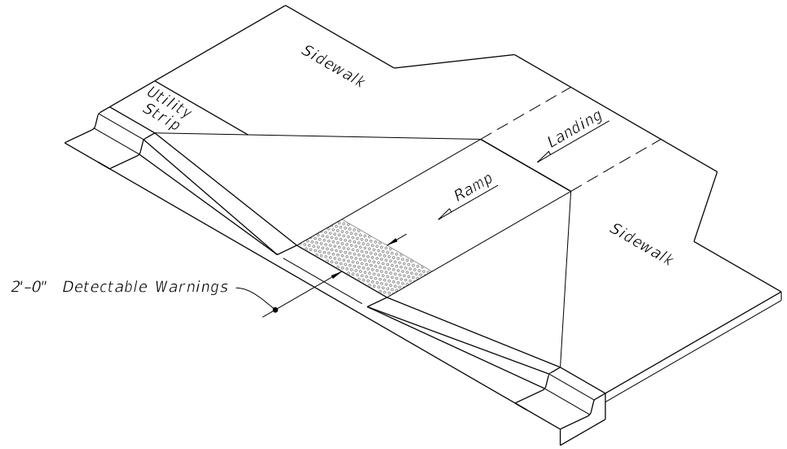
CURB RAMP NOMENCLATURE

9/22/2021 8:50:28 AM

LAST REVISION	REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX	SHEET
11/01/21						522-002	1 of 7



ISOMETRIC VIEW



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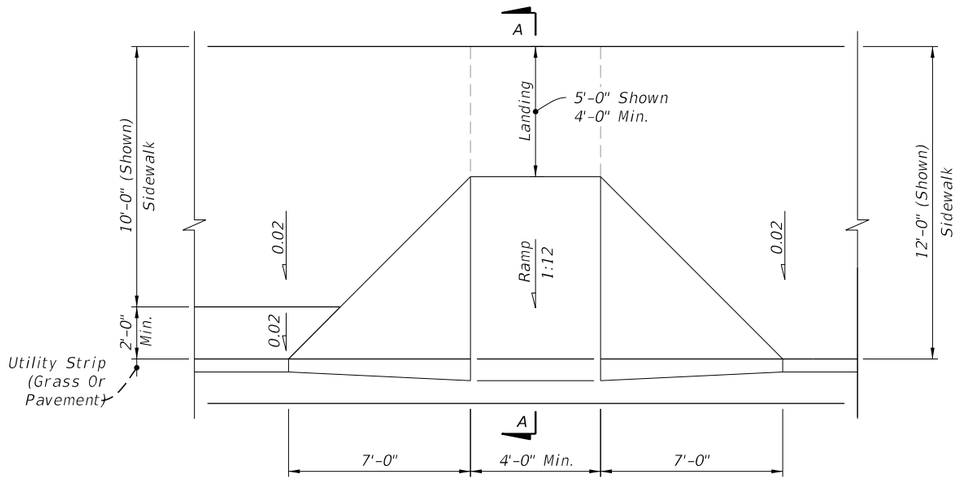
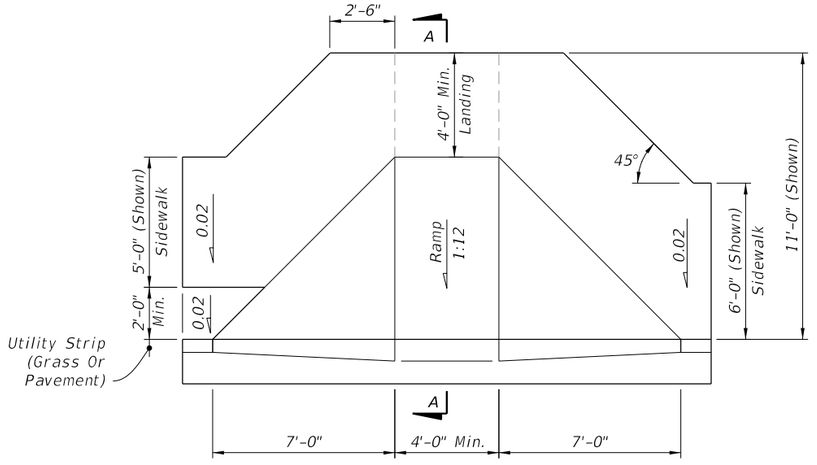


PLAN VIEW

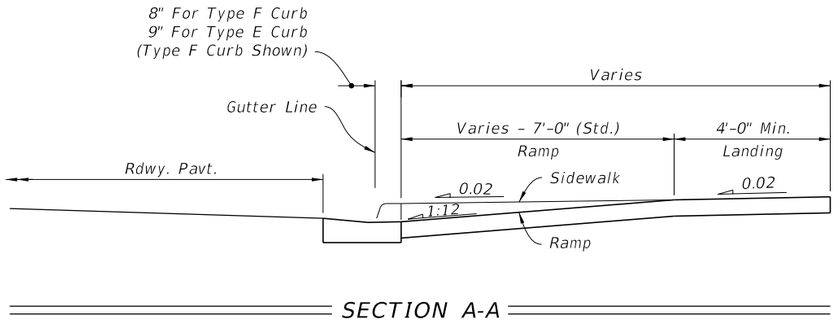
NOTE: For Example of CR-A used in Radial Curb Returns, See Sheet 8.

CR-A



PLAN VIEW

CR-B

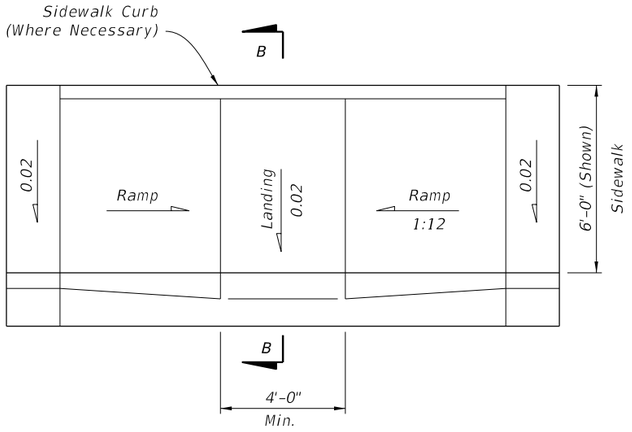


SECTION A-A

SIDEWALK CURB RAMPS CR-A AND CR-B

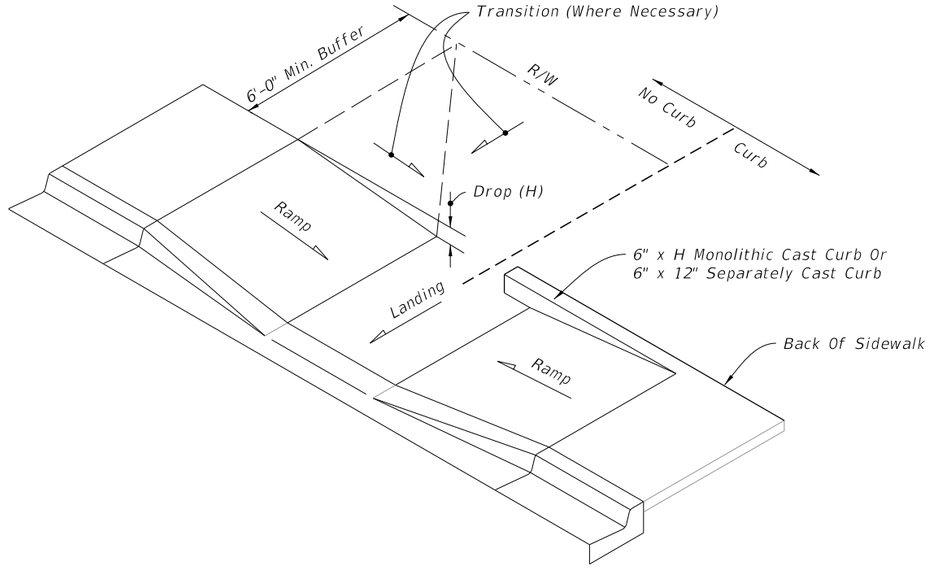
9/22/2021 8:50:30 AM

LAST REVISION	REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX	SHEET
11/01/20						522-002	2 of 7

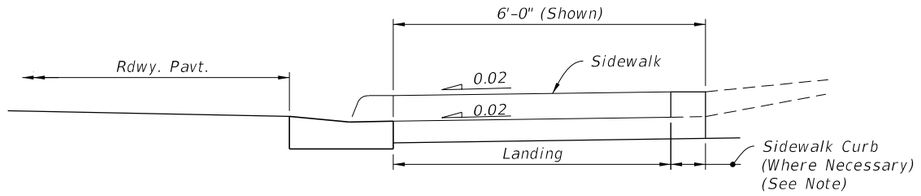


PLAN VIEW

CR-C

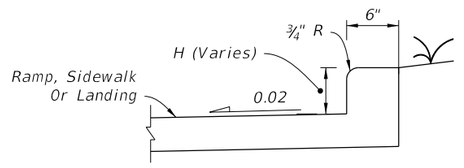


CONSTRUCTION OF SIDEWALK CURB IN CUT SECTIONS

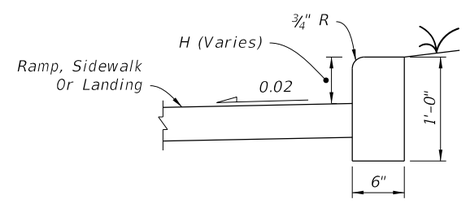


NOTE: For additional information on sidewalk curb construction, see SIDEWALK CURB OPTIONS details.

SECTION B-B



MONOLITHIC CAST CURB



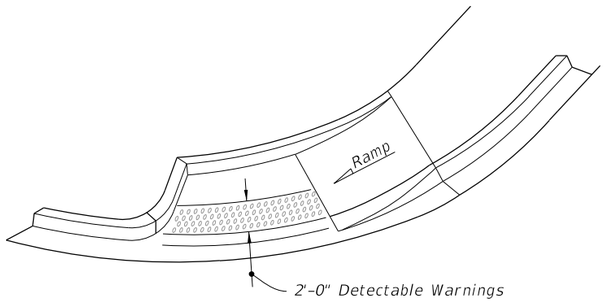
SEPARATELY CAST CURB

SIDEWALK CURB OPTIONS

SIDEWALK CURB RAMPS CR-C AND SIDEWALK CURB

LAST REVISION	REVISION	DESCRIPTION:			INDEX	SHEET
11/01/20			FDOT FY 2022-23 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	522-002	3 of 7

9/22/2021 8:50:34 AM



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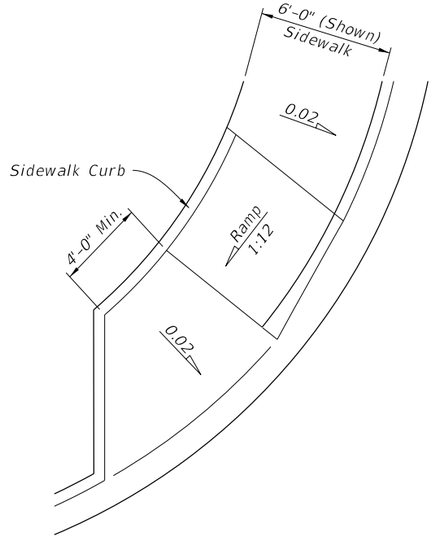
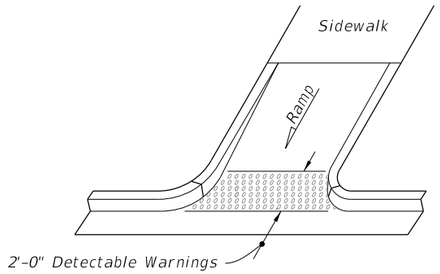
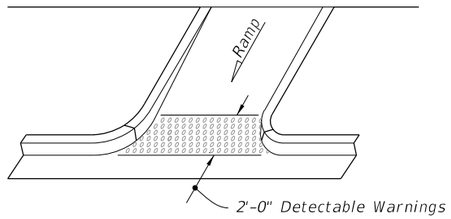


PLAN VIEW

CR-D

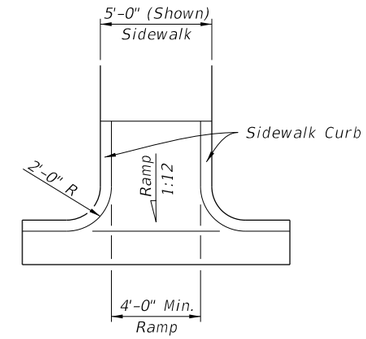


OPTION A



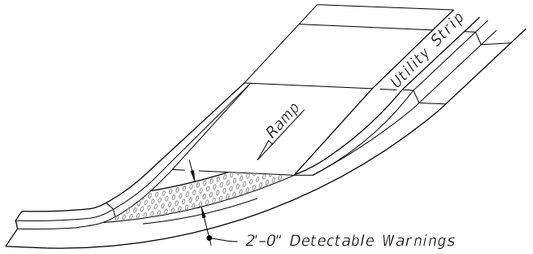
OPTION B

ISOMETRIC VIEW



PLAN VIEW

CR-E



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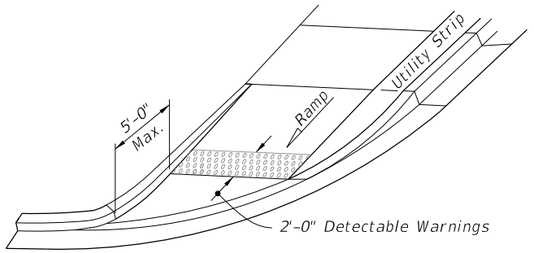
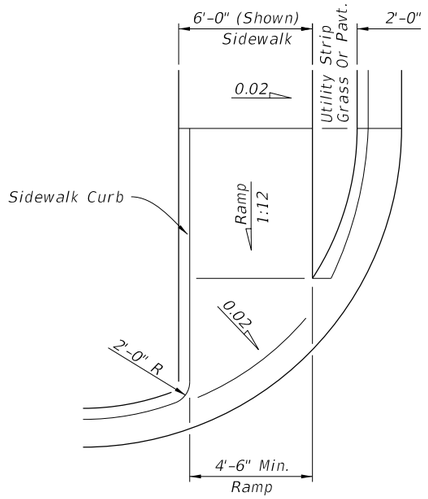


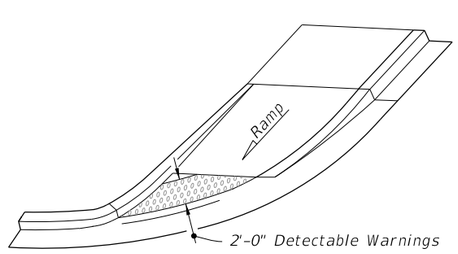
OPTION B

ISOMETRIC VIEW

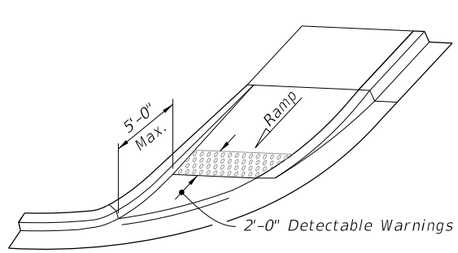


PLAN VIEW

CR-F

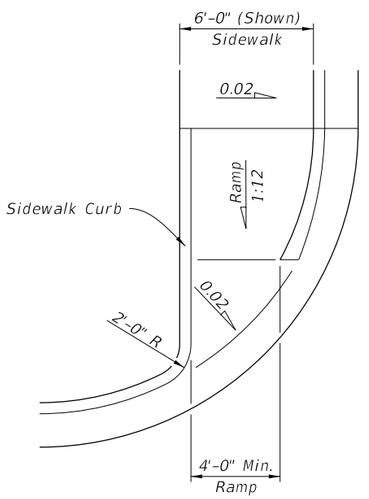


OPTION A



OPTION B

ISOMETRIC VIEW



PLAN VIEW

CR-G

SIDEWALK CURB RAMPS CR-D, CR-E, CR-F & CR-G

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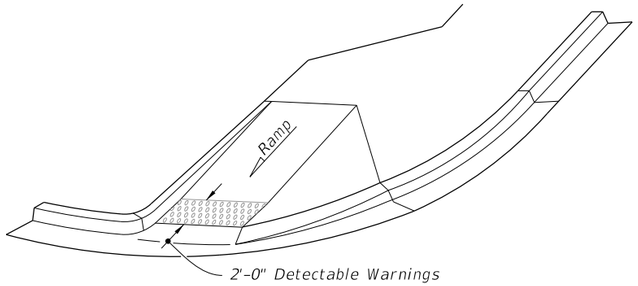

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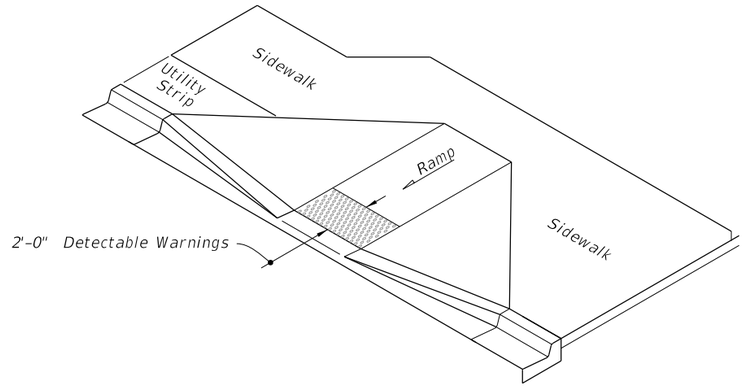

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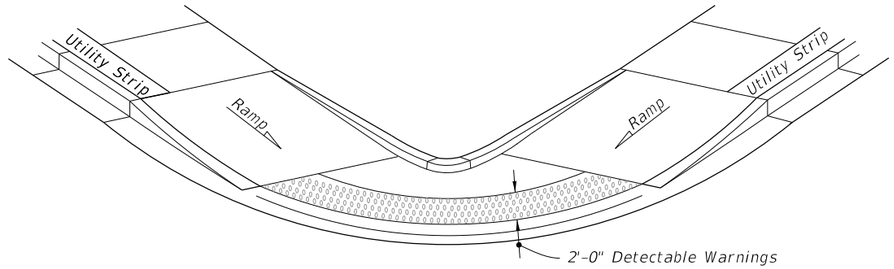

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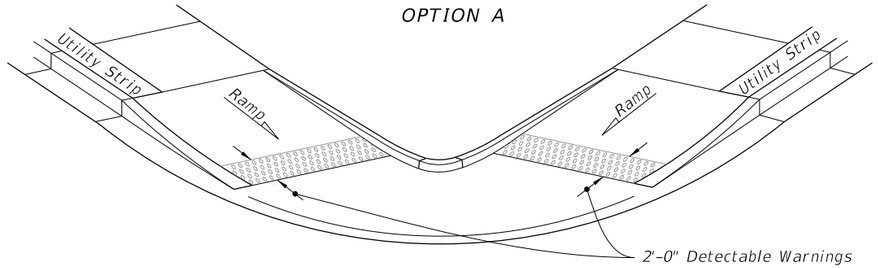

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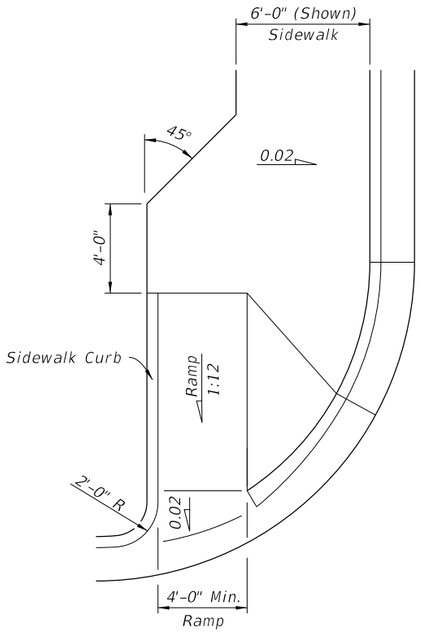
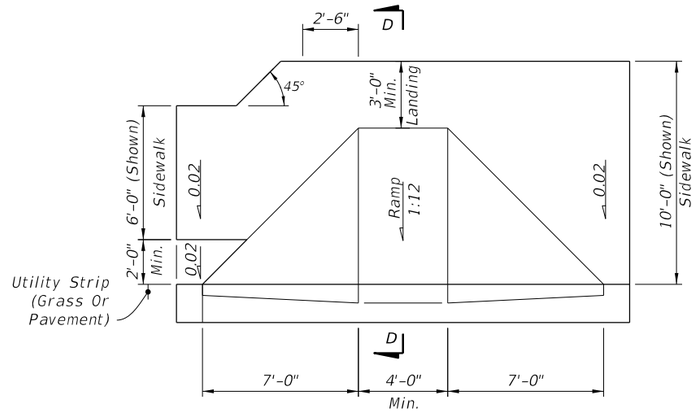


PLAN VIEW

CR-H



PLAN VIEW

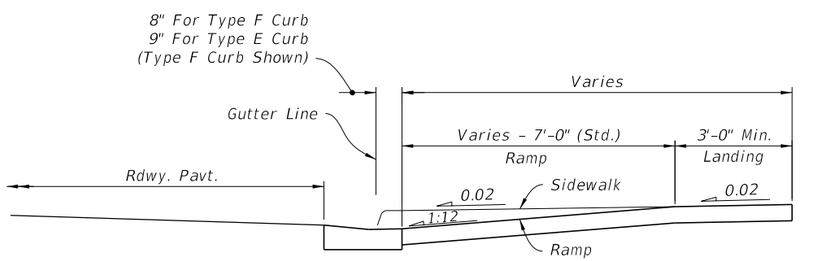
CR-K

PLAN VIEW

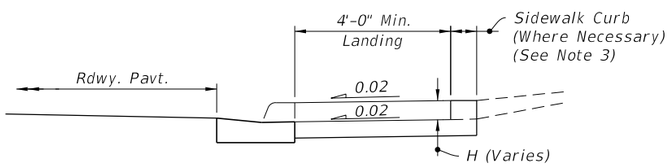
CR-L

NOTES:

1. Crosswalk Width and Configuration Vary; Must Conform to Index 711-001.
2. 15' Radius Curve Shown for CR-L.
3. For additional information on sidewalk curb construction, see SIDEWALK CURB OPTIONS details, on Sheet 3.



SECTION D-D



SECTION E-E

SIDEWALK CURB RAMPS CR-H, CR-K & CR-L

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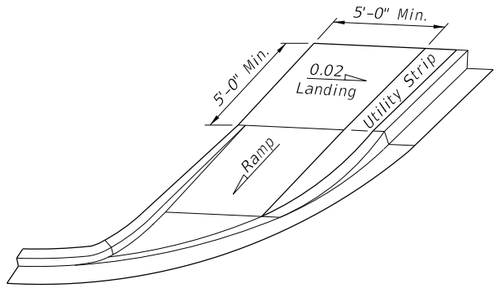
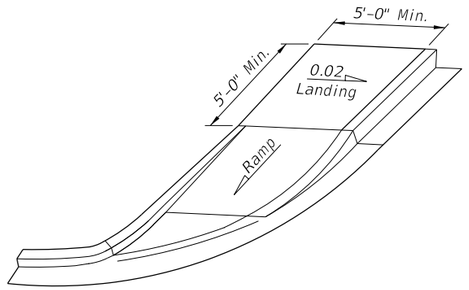
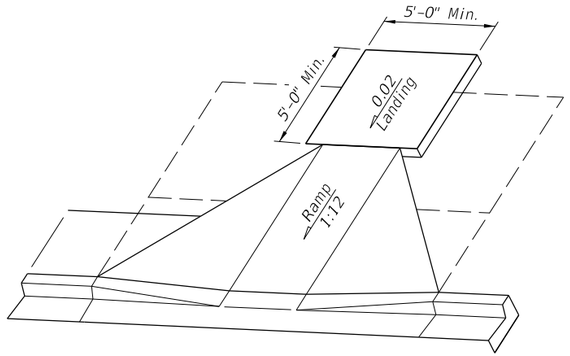
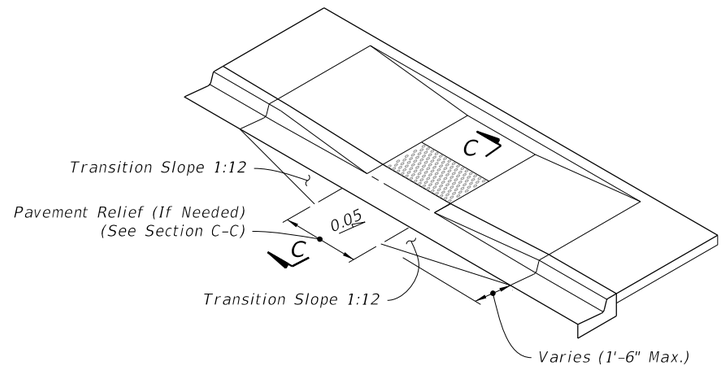






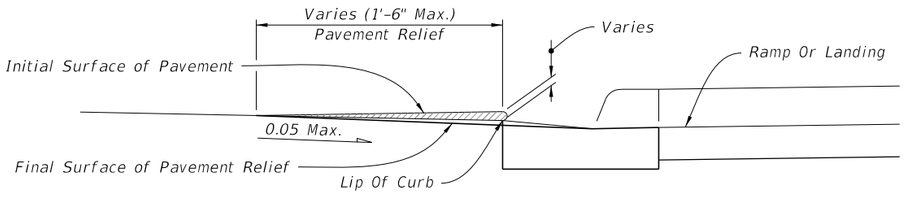
LANDINGS FOR CURB RAMPS WITHOUT SIDEWALKS

(See CR-F, CR-G & CR-K Respectively For Detectable Warning Details/Options)



ISOMETRIC VIEW

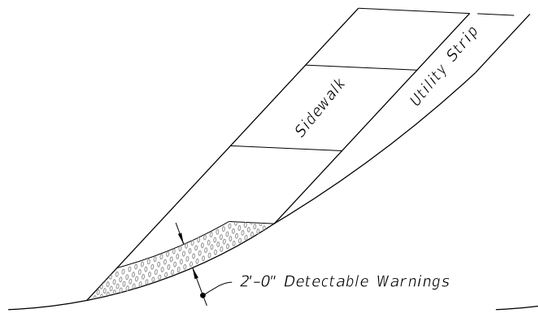
(CR-C Shown, Other Similar)



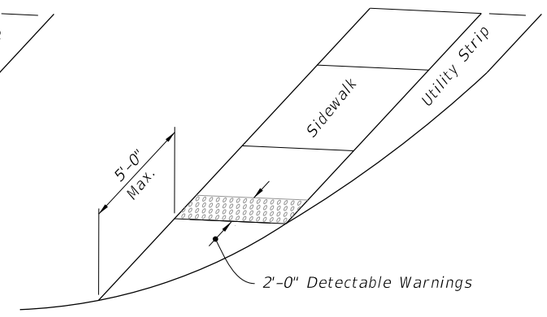
NOTE: Remove Elevated Pavement By Spading And Rolling, Smooth Milling, or Grinding.

SECTION C-C

PAVEMENT RELIEF DETAILS



OPTION A



OPTION B

DETECTABLE WARNING ON FLUSH SHOULDER SIDEWALKS

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CURB RAMPS WITHOUT SIDEWALKS AND FLUSH SHOULDER SIDEWALKS

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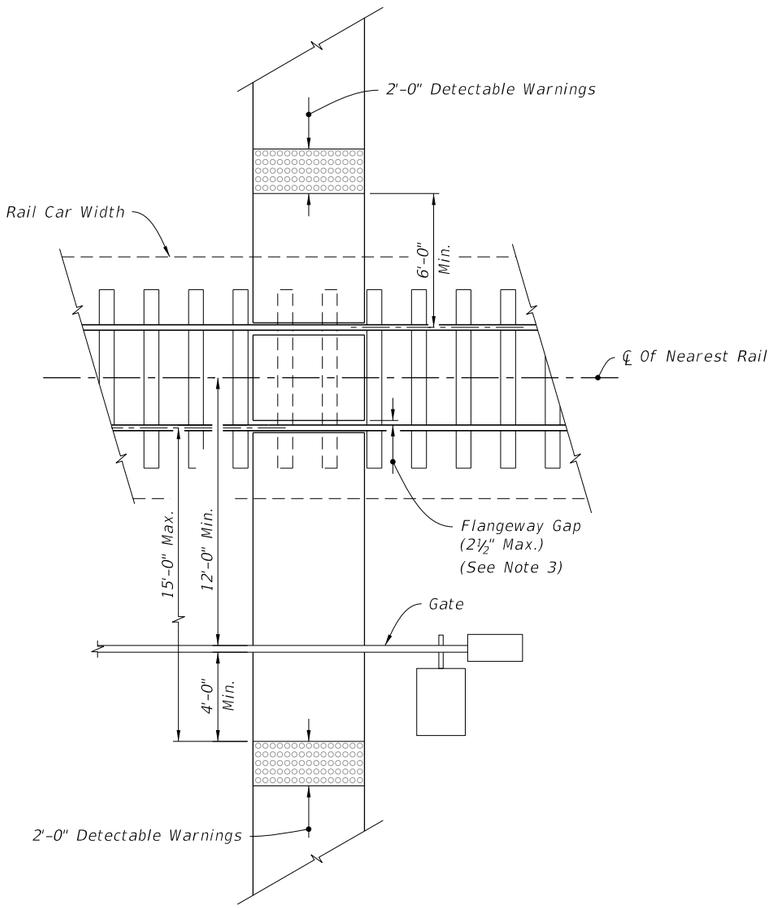
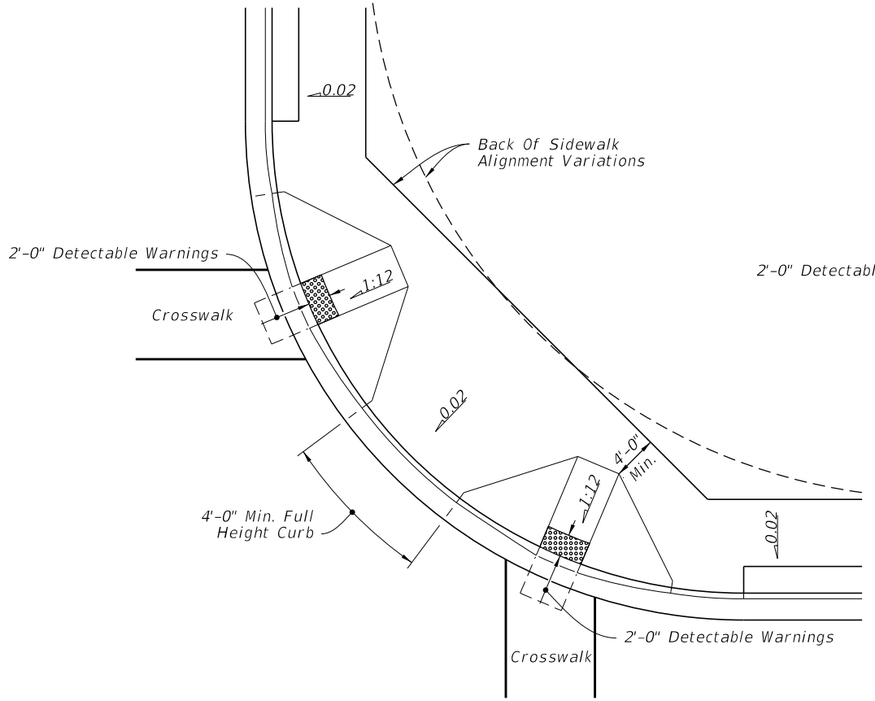
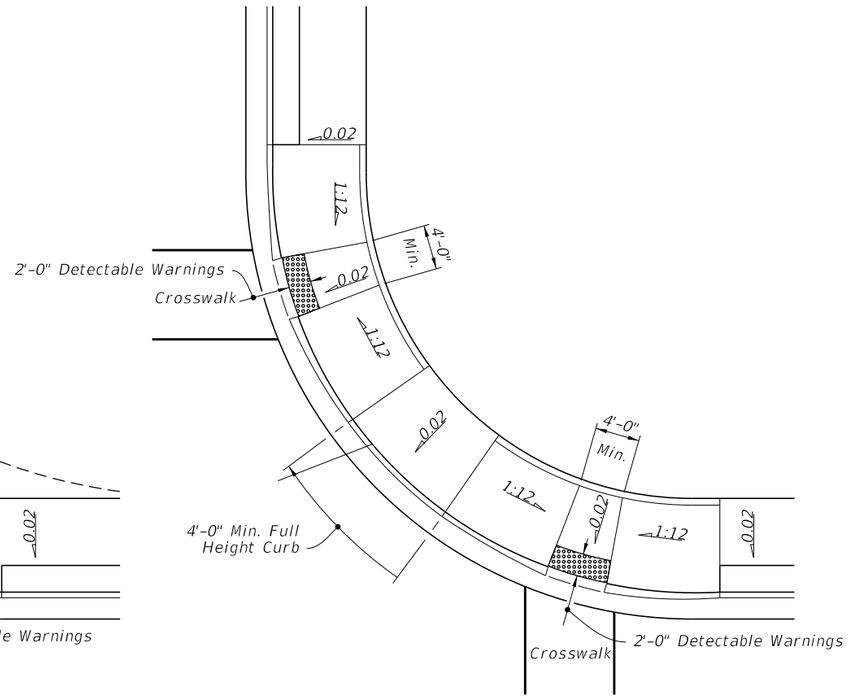
NOTES:

1. Where crosswalk markings are used, ramps must fall within the crosswalk limits. A clear space of 48" minimum is required at the bottom of the ramp within a marked crosswalk. If crosswalk markings are not present, a clear space of 48" minimum is required at the bottom of the ramp outside of active travel lanes.
2. Crosswalk widths and configurations vary; must conform to Index 711-001.
3. Flangeway Gap may be up to 3" for Freight-only Railways.

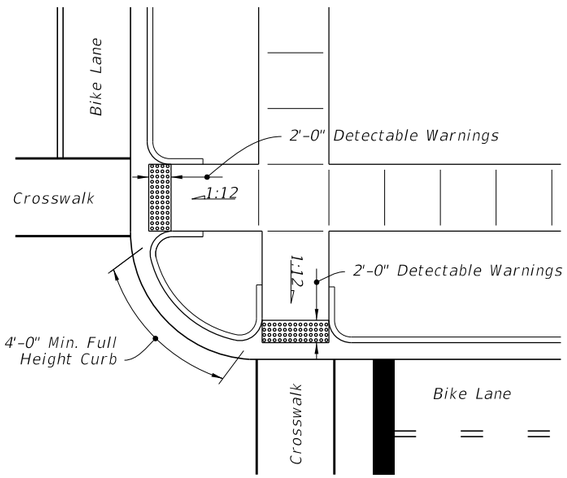


RAILROAD CROSSING

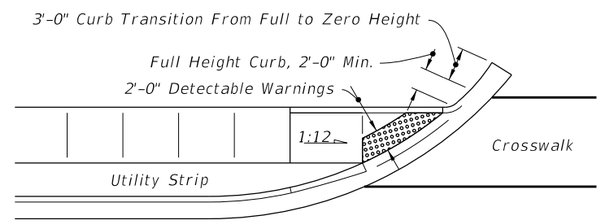




CURB RAMPS WITHIN RADIAL RETURN



CURB RAMPS OUTSIDE RADIAL RETURN



LINEAR SIDEWALK RAMPS

PLACEMENT OF SIDEWALK CURB RAMPS AT CURBED RETURNS (TYP.)

RAILROAD CROSSING AND CURB RAMPS AT CURBED RETURNS

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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 acrylonitrite 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.

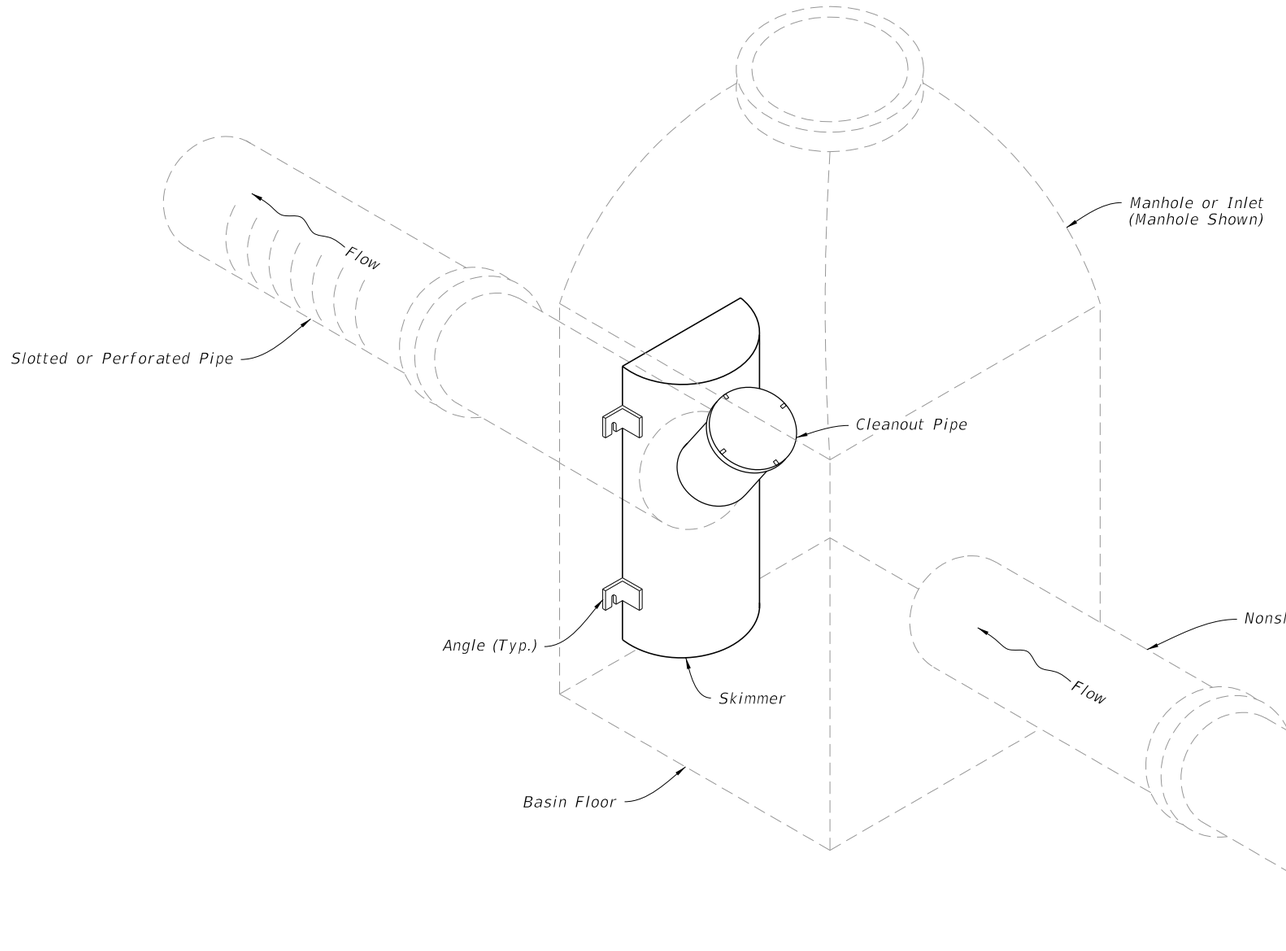

TABLE OF CONTENTS:	
Sheet	Description

SKIMMER FOR FRENCH DRAIN OUTLETS ASSEMBLY

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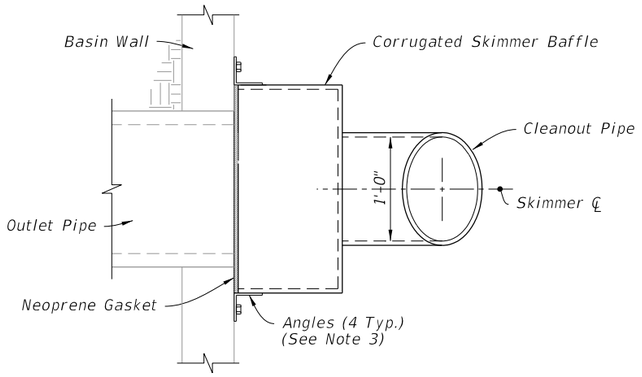
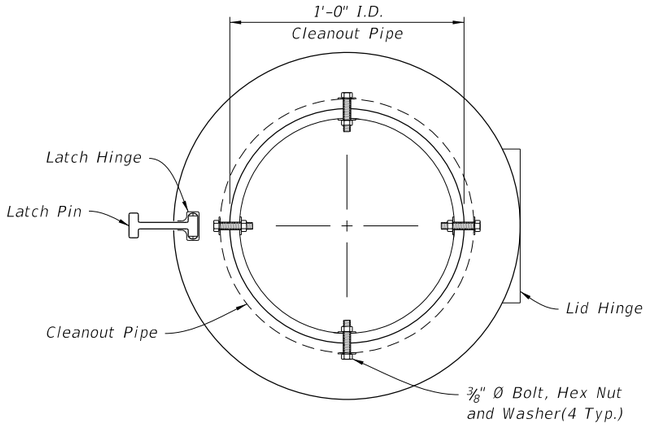


PLAN

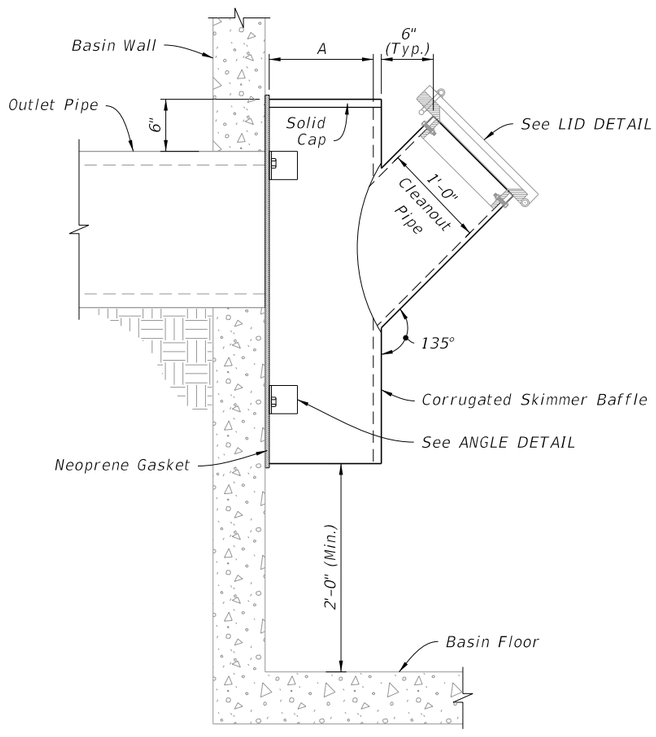
NOTES:

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.

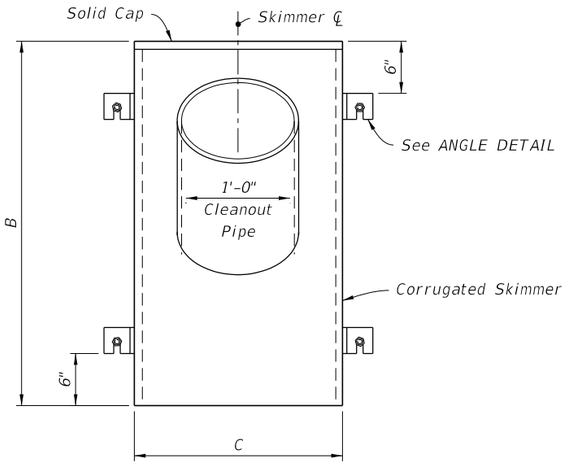
DIMENSION TABLE			
OUTLET PIPE	A	B	C
18"	12"	42"	24"
24"	15"	48"	30"
30"	18"	54"	36"
36"	21"	60"	42"



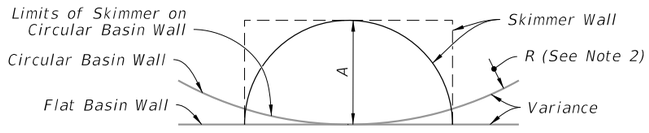
PLAN



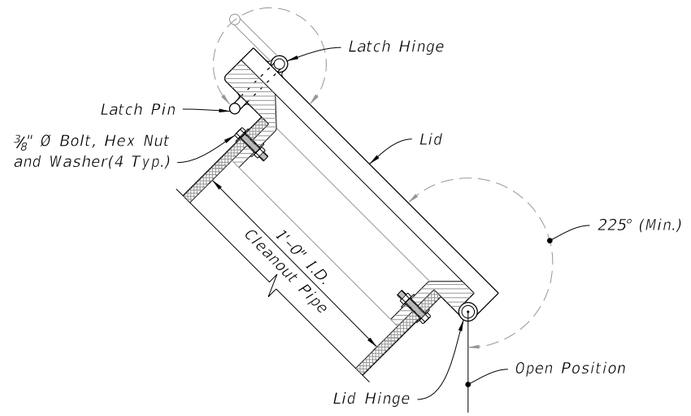
SIDE ELEVATION



FRONT ELEVATION

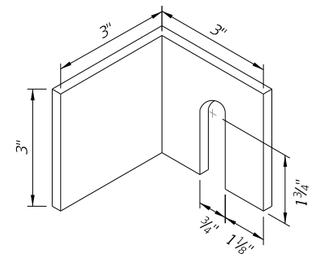


SCHEMATIC VIEW



SIDE ELEVATION

LID DETAIL



ANGLE DETAIL

TYPE I DETAILS

TYPE I SKIMMERS

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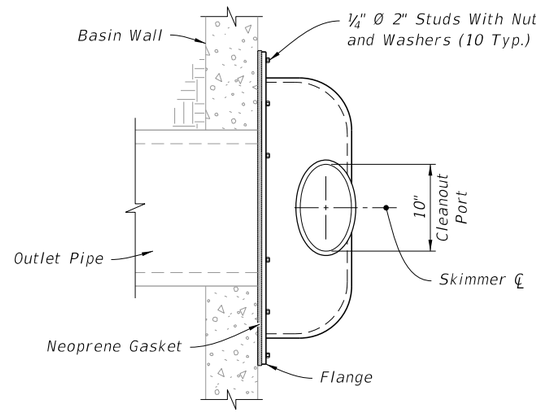
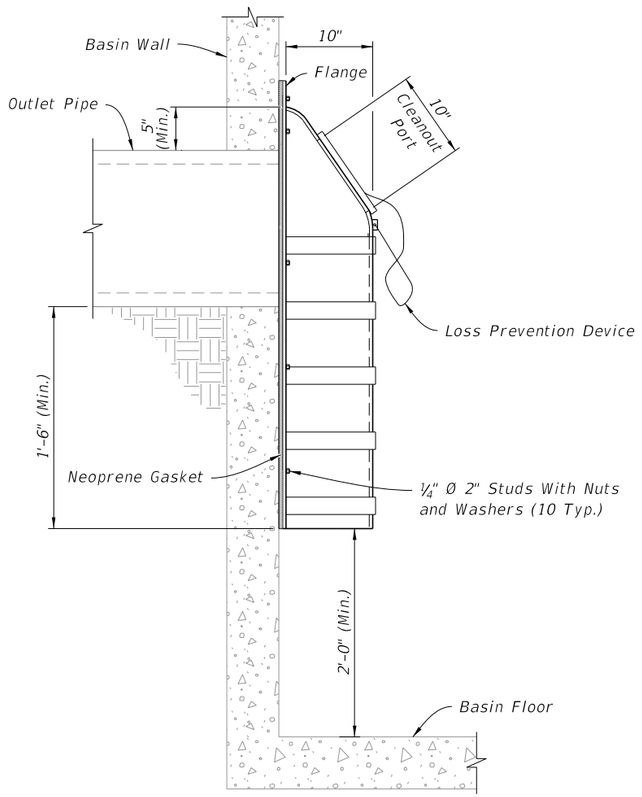
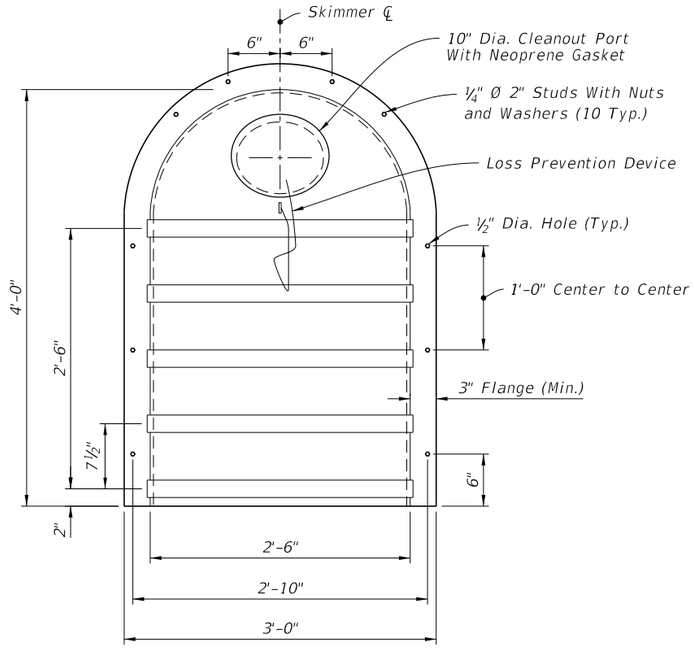


PLAN



SIDE ELEVATION



FRONT 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.

TYPE II DETAILS

TYPE II SKIMMERS

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