

PLANS FOR PROPOSED  
IMPROVEMENTS TO  
**FRANJO ROAD**  
FROM OLD CUTLER RD to SW 184th Street  
MIAMI-DADE COUNTY PROJECT NO. 20190519  
[ROAD IMPACT FEE (RIF)]

NOTE:

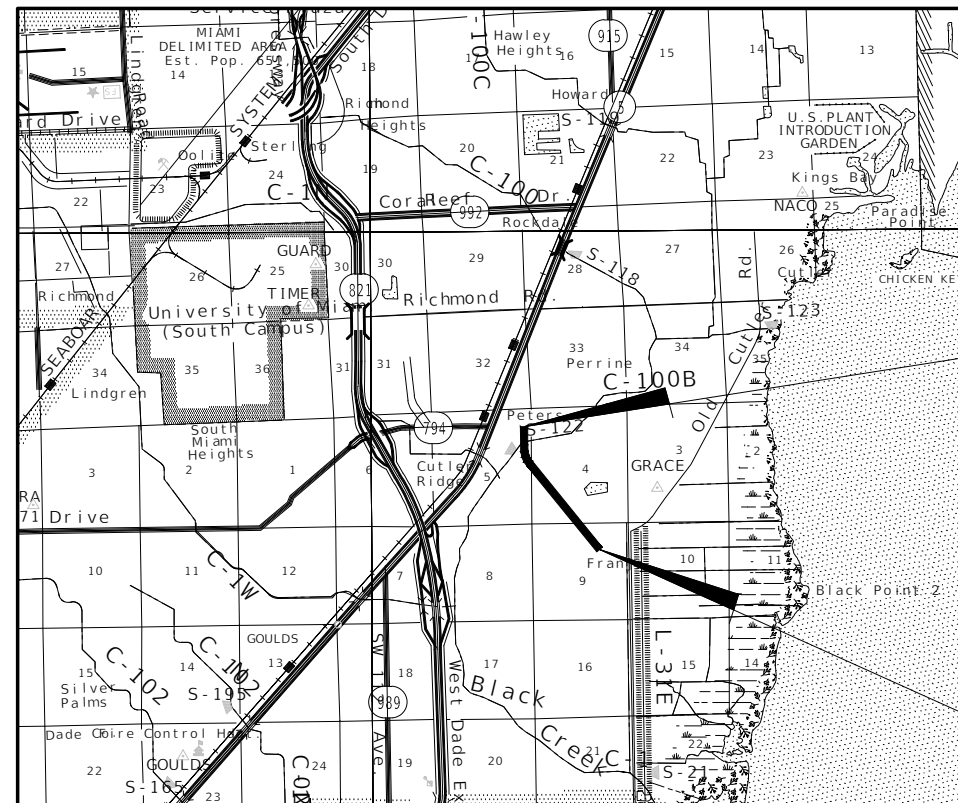
ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

**INDEX OF SHEETS**

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

**STANDARD INDEX DRAWINGS**

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



PREPARED FOR  
**TOWN OF CUTLER BAY**



BY



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

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

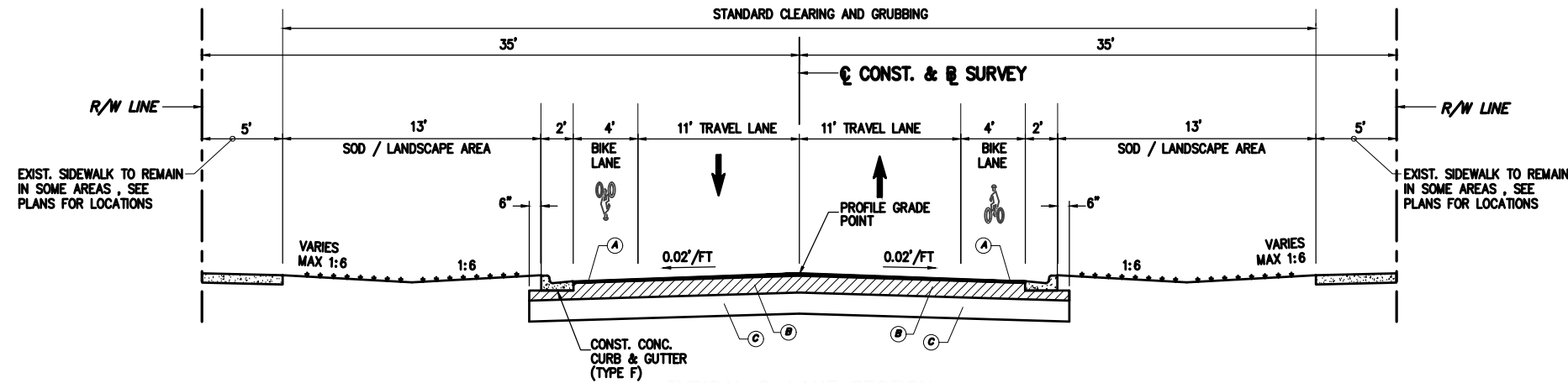
**100%  
SUBMITTAL PLAN**

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)

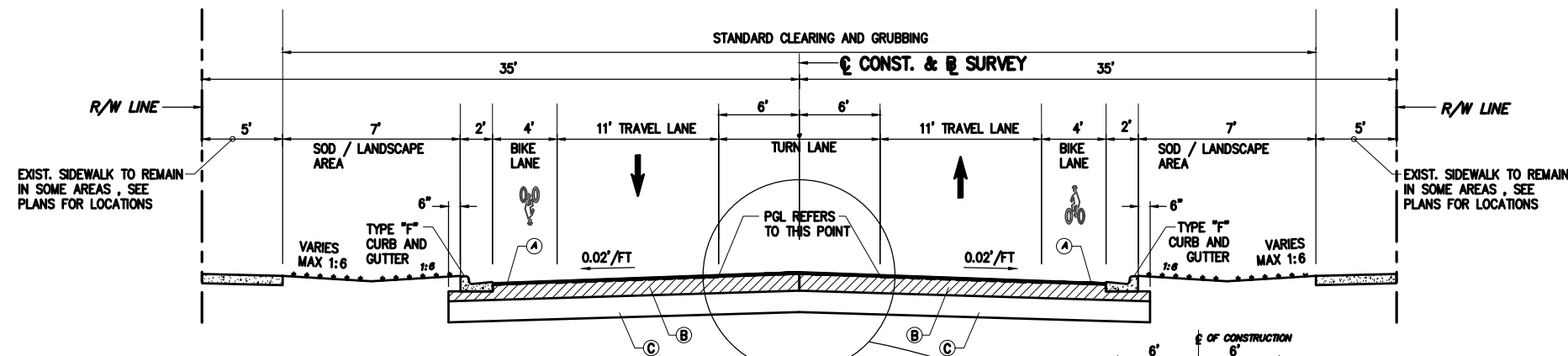
**TYPICAL SECTION FROM STA 12+20 TO STA 92+80**

N.T.S.

**NEW CONSTRUCTION**

- Ⓐ 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 35 MPH



**TYPICAL LANE SECTION FROM STA 10+96.94 TO STA 12+20**

**FROM STA 43+95 TO STA 49+75**

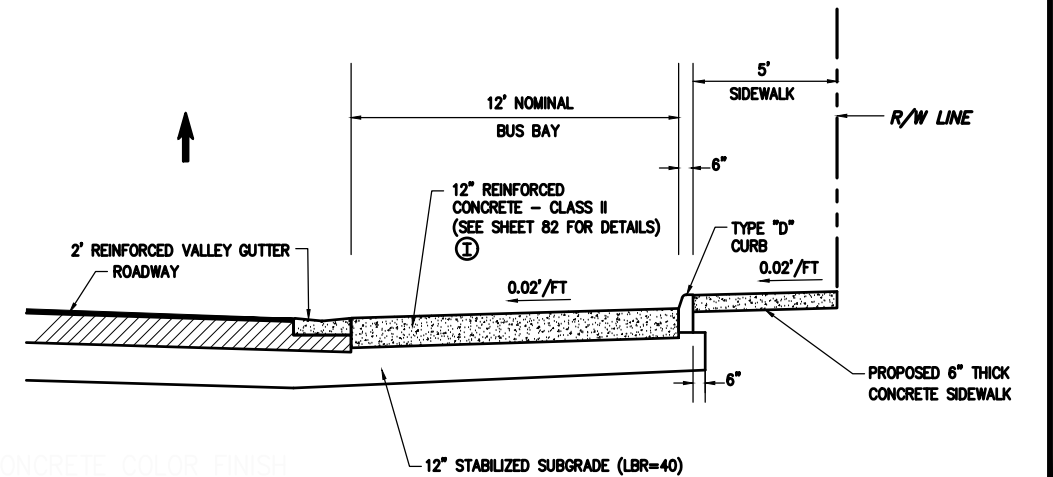
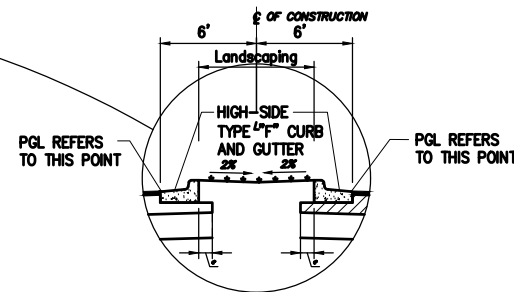
**FROM STA 84+30 TO STA 88+60**

**FROM STA 92+80 TO STA 95+80**

N.T.S.

**NEW CONSTRUCTION**

- Ⓐ 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)



- Ⓘ INTEGRALLY-COLORED CONCRETE  
LAMBERT - CORAL GABLES BEIGE

**PROPOSED BUS BAY**

(SEE PLANS FOR LOCATIONS)

N.T.S.

PLOTTED BY: MORALES, ROD DATE: 2/16/2023 4:34 PM  
CREATED: 2022-10-05 - V:\2156\ACTIVE\215615892\CIVIL\DESIGN\DRAWINGS\CIVIL PLANS\1582 TYPICAL SECTION.DWG

**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



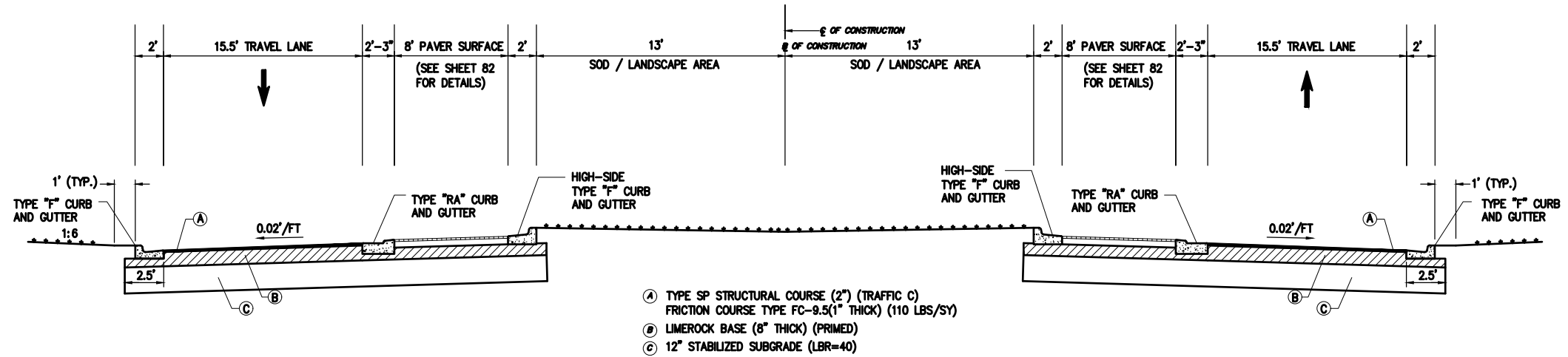
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	CMH	02/16/2021		RM	02/16/2021
CHECKED BY	CMH		CHECKED BY	CMH	
SUPERVISED BY:					



**TYPICAL SECTIONS**



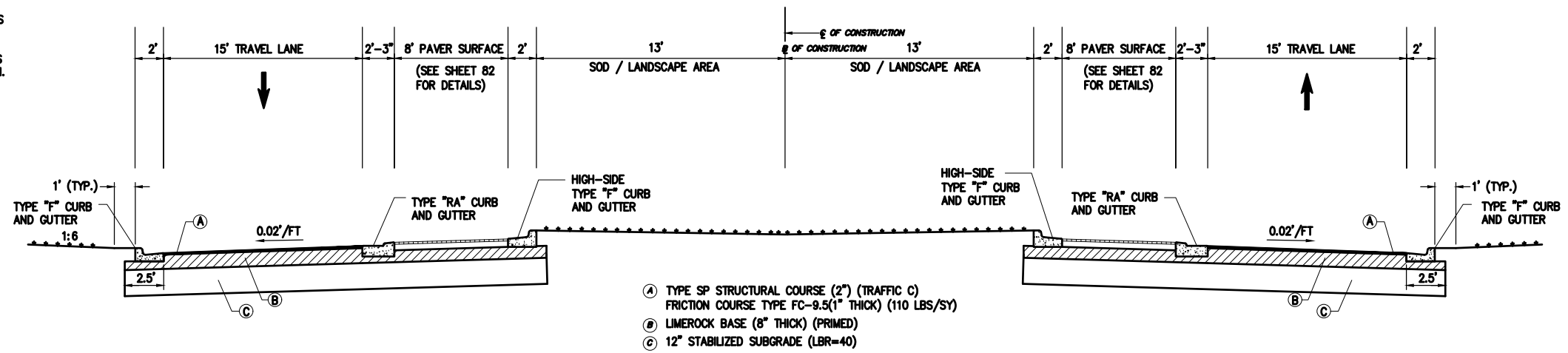


DETAIL SECTION ROUNDABOUT AT  
**GULF STREAM ROAD**  
N.T.S.

DESIGN SPEED 25 MPH

**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)



DETAIL SECTION ROUNDABOUT AT  
**SW 192 DRIVE**  
N.T.S.

DESIGN SPEED 25 MPH

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

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

SUPERVISED BY:



PLOTTED BY: MORALES, ROD. DATE: 2/16/2023 4:34 PM  
CREATED: 2022-10-05 - V:\2156\ACTIVE\215615952\CIVIL\DESIGN\DRAWING\CIVIL PLANS\15952 TYPICAL SECTION.DWG

**SUMMARY OF QUANTITIES**

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.	37,719	5,658	43,377
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	2	18
425-1-203	GUTTER INLET J-9	EACH	5	1	6
425-1-600F	INLET TYPE P-10M (ANY DIMENSION) (MAX 15' DEPTH)	EACH	25	4	29
425-1-602	INLET TYPE J-10M	EACH	3	1	4
425-1-331	GUTTER INLET TYPE P-3	EACH	6	1	7
425-1-341	GUTTER INLET TYPE P-4	EACH	5	1	6
425-1-351	INLET TYPE P-5 (<10')	EACH	10	2	12
425-1-361	INLET TYPE P-6 (<10')	EACH	25	4	29
425-1-461	INLET TYPE J-6 (<10')	EACH	2	1	3
425-1-521	INLET TYPE C	EACH	1	1	2
425-2-41	MANHOLES, TYPE P-7T	EACH	2	1	3
425-2-72	MANHOLES, TYPE J-7T (ANY DIMENSION) (MAX 15' DEPTH)	EACH	40	6	46
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 "E") & 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.

- SUMMARY OF EARTHWORK IS BASED ON THE CONSTRUCTION OF LIMEROCK BASE 8" THICK AS INDICATED ON THE CROSS SECTIONS.
- ANY EXCAVATED MATERIAL, IF UNSUITABLE, SHALL NOT BE USED IN THE CONSTRUCTION OF THE EMBANKMENT.
- 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



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.

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



**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.
13. 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. 305-668-3628. 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 MDWAS 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.
14. 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
15. 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.
16. ANY DAMAGE TO PUBLIC OR PRIVATE PROPERTY SHALL BE RESTORED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ASPHALT, CONCRETE OR PAVEMENT 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.
17. ANY ENCROACHMENT WITHIN THE LIMITS OF CONSTRUCTION SHALL BE RELOCATED OR PROTECTED BY THE ADJACENT PROPERTY OWNER AT THEIR EXPENSE.
18. CLEARING AND GRUBBING, GRADING AND OTHER INCIDENTAL WORK NECESSARY FOR HARMONIZATION OUTSIDE R/W SHALL BE INCLUDED IN RELATED BID ITEMS.
19. ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RE-SODDED. SODDING TO BE USED AT LOCATIONS WHERE EXISTING LAWNS OR SWALES ARE DISTURBED, AT CONTRACTORS EXPENSE AS DIRECTED BY THE ENGINEER.
20. 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.
21. 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.
22. 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.
23. 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.
24. 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.
25. ALL DITCH EXCAVATIONS SHALL BE PERFORMED IN FULL COMPLIANCE WITH THE PROVISIONS OF THE TRENCH SAFETY ACT.
26. 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.
27. 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.
28. 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.
29. 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.
30. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES AND UTILITIES, WHICH MAY NOT BE SHOWN ON PLANS. ANY STRUCTURE, PAVEMENT, TREES OR OTHER EXISTING IMPROVEMENT NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARILY DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
31. 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.
32. 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.
33. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS USED IN THIS PROJECT.
34. 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.
35. 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.
36. CAST IRON PRODUCTS: HEAVY-DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS OR 16,000 LBS WHEEL LOADS.
37. STEEL GRATING AND COVERS: TRAFFIC CLASSIFICATION H-20; 16,000 LBS OVER 8"x20" AREA.
38. EXISTING DRAINAGE STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED UNLESS OTHERWISE NOTED.
39. 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.
40. PRIOR TO CONSTRUCTION THE CONTRACTOR WILL INSPECT ALL EXISTING STRUCTURES WHICH ARE TO REMAIN AND NOTIFY THE ENGINEER OF ANY OBVIOUS STRUCTURAL DEFICIENCIES.
41. CONTRACTOR SHALL ADJUST ALL EXISTING CATCH BASINS, GRATES, AND STORM MANHOLE COVERS TO MEET NEW GRADES WHERE APPLICABLE. PAY ITEM No. 425-6
42. RADI ON CURB RETURNS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
43. PRIOR TO CONSTRUCTION THE CONTRACTOR WILL VERIFY INVERT ELEVATIONS OF ALL PIPES WHICH ARE TO REMAIN AND NOTIFY THE ENGINEER OF ANY ELEVATION DEVIATIONS.
44. 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.
45. 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.
46. 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.
47. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND FLUSH WITH THE EXISTING PAVEMENT.
48. THE LOCATION OF SOME EXISTING DRIVEWAYS IS APPROXIMATE. VERIFICATION OF EXACT LOCATION AND DIMENSIONS IS RECOMMENDED.
49. EXISTING DRIVEWAYS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE REPLACED AT THE SAME LOCATION AND WIDTH, UNLESS OTHERWISE SHOWN IN PLANS.
50. 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.
51. CONTRACTOR TO INSTALL 1/2" PREFORMED EXPANSION JOINT WHEN PROPOSED SIDEWALK IMPROVEMENTS IS IMMEDIATELY ADJACENT TO EXISTING CONCRETE SLAB AND/OR BUILDING.
52. 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.
53. 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.
54. 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.
55. DESIGN WATER TABLE ELEVATION: 3.00
56. MIAMI-DADE COUNTY FLOOD CRITERIA ELEVATION: 6.00
57. 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.
58. ALL PAVEMENT DIMENSIONS ARE TO LIP OF GUTTER, AS APPLICABLE, UNLESS INDICATED OTHERWISE.
59. LOCAL RESIDENTS, PROPERTY OWNERS AND TENANTS WHEN THE AREA OF CONSTRUCTION SHALL BE GIVEN ACCESS TO THEIR PROPERTY DURING ALL PHASES OF CONSTRUCTION.
60. 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.
61. PAVED ASPHALT TEMPORARY PAVEMENT AND CONNECTIONS SHALL BE PROVIDED THROUGHOUT PROJECT, AS NEEDED AND DIRECTED BY THE ENGINEER TO MAINTAIN TRAFFIC AND ACCESS.
62. 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.
63. CONTRACTOR SHALL COORDINATE WITH THE IRRIGATION AND ELECTRICAL SUB-CONTRACTORS FOR THE INSTALLATION OF ANY NECESSARY SLEEVES UNDER THE PAVEMENT.
64. 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.
65. ALL EXISTING FIRE HYDRANTS SHALL REMAIN UNDISTURBED UNLESS OTHERWISE NOTED.
66. 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.
67. CONTRACTOR SHALL MAINTAIN TRENCHING TO THE MINIMUM REQUIRED TO DO WORK TO AVOID DAMAGE TO TREES.
68. 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.
69. ALL SIDEWALK CLOSURES SHALL BE PROVIDED BY THE CONTRACTOR WITH PROPER PEDESTRIAN DIRECTIONAL DETOUR SIGNAGE, OR AS DIRECTED BY THE ENGINEER.
70. 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.
71. 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.
72. 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. TYPE "F" CURB AND GUTTER
	PROP. CONCRETE SIDEWALK		PROP. TYPE "D" CURB
	PROP. CONCRETE PAVERS		PROP. TYPE "RA" CURB AND GUTTER
	PROP. ROADWAY WIDENING		EXST. E.O.P.
	PROP. ASPHALT DRIVEWAY		EXST. SIDEWALK
	PROP. NO. OF SIDEWALK FLAGS TO BE REPLACED		EXST. LOT LINE
	PROP. LIGHT POLE		EXST. R/W LINE
			CL. OF CONSTRUCTION
			EXST. GAS LINE
			EXST. POWER POLE
			EXST. MAILBOX
			EXST. LIGHT POLE
			EXST. BUS BENCH

**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

**Stantec**  
101 Florida Oaks Blvd. Suite 700  
Coral Gables, Florida 33134  
www.stantec.com

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

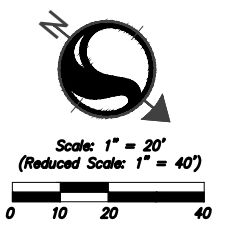
**MIAMI-DADE COUNTY**

**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\215615892\CIVIL\DESIGN\DRAWINGS\CIVIL PLANS\1592 GENERAL NOTES.DWG

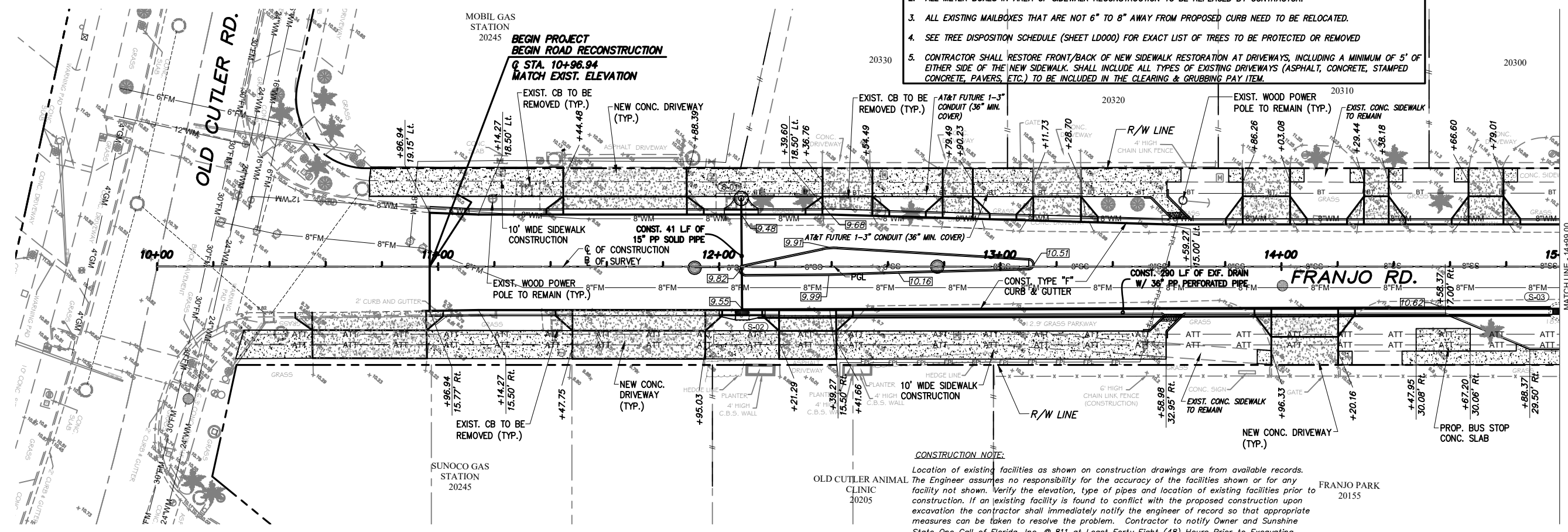




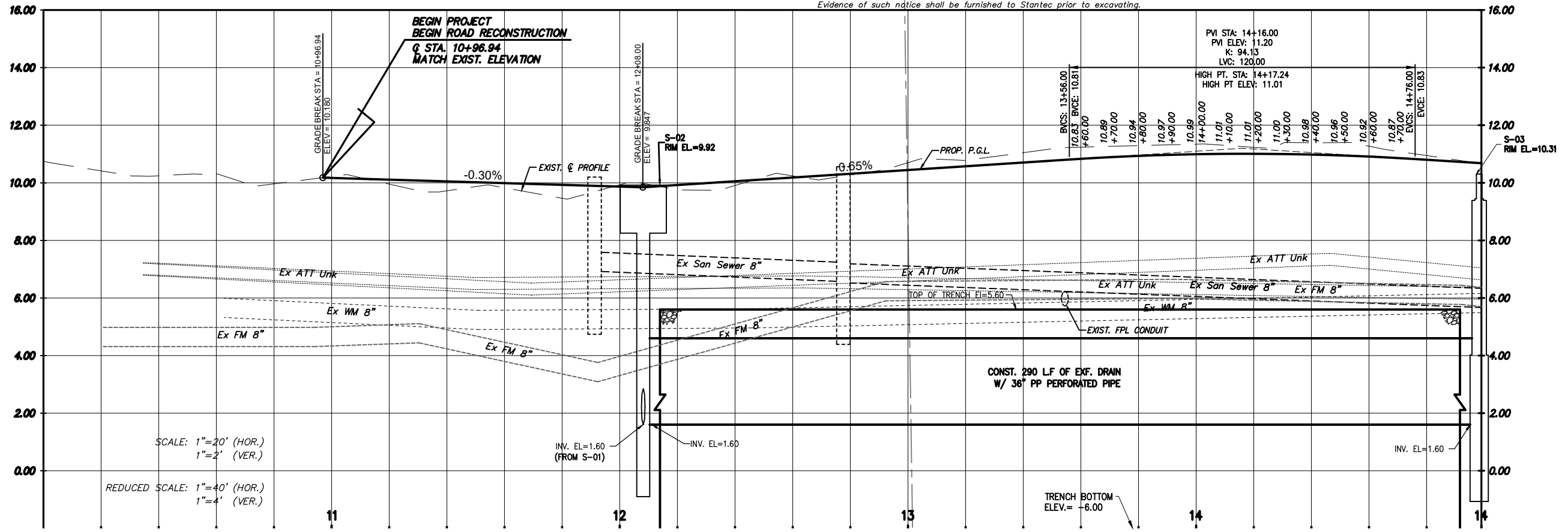
**LEGEND**  

 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 notice shall be furnished to Stantec prior to excavating.



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

PLOTTED BY: MOBILES, ROD DATE: 3/20/2023 12:44 PM  
 CREATOR: 2023-02-15 - 142156\MOBILES\15952\FRANJO\_PLAN & PROFILE\_01.DWG

**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

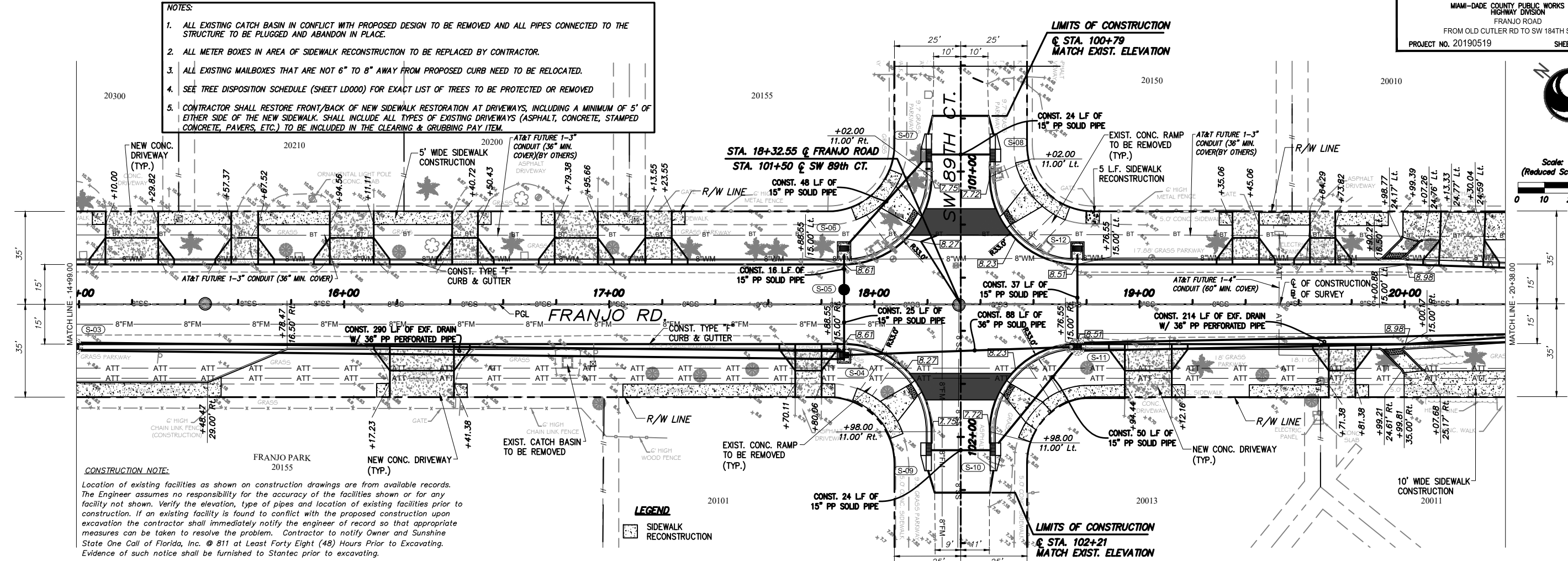
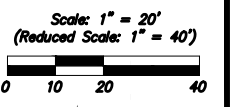
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	CMH	04-2021		RM	04-2021
CHECKED BY	CMH		CHECKED BY	CMH	
SUPERVISED BY:					



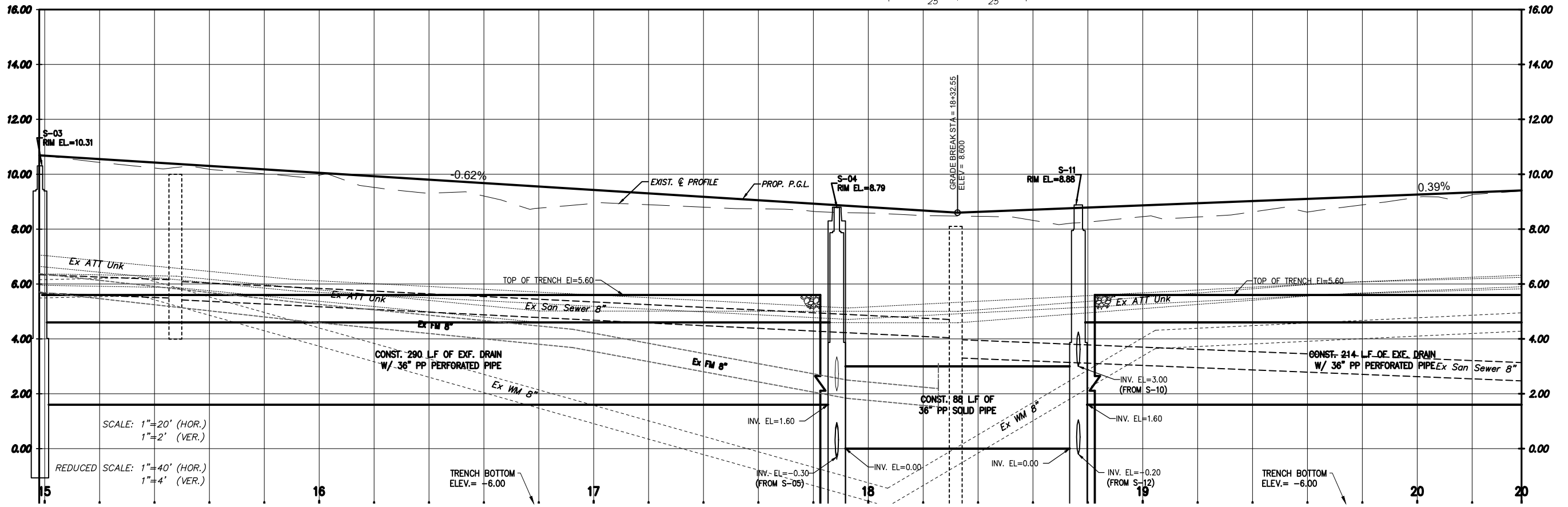
PLAN & PROFILE



- 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 notice shall be furnished to Stantec prior to excavating.



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

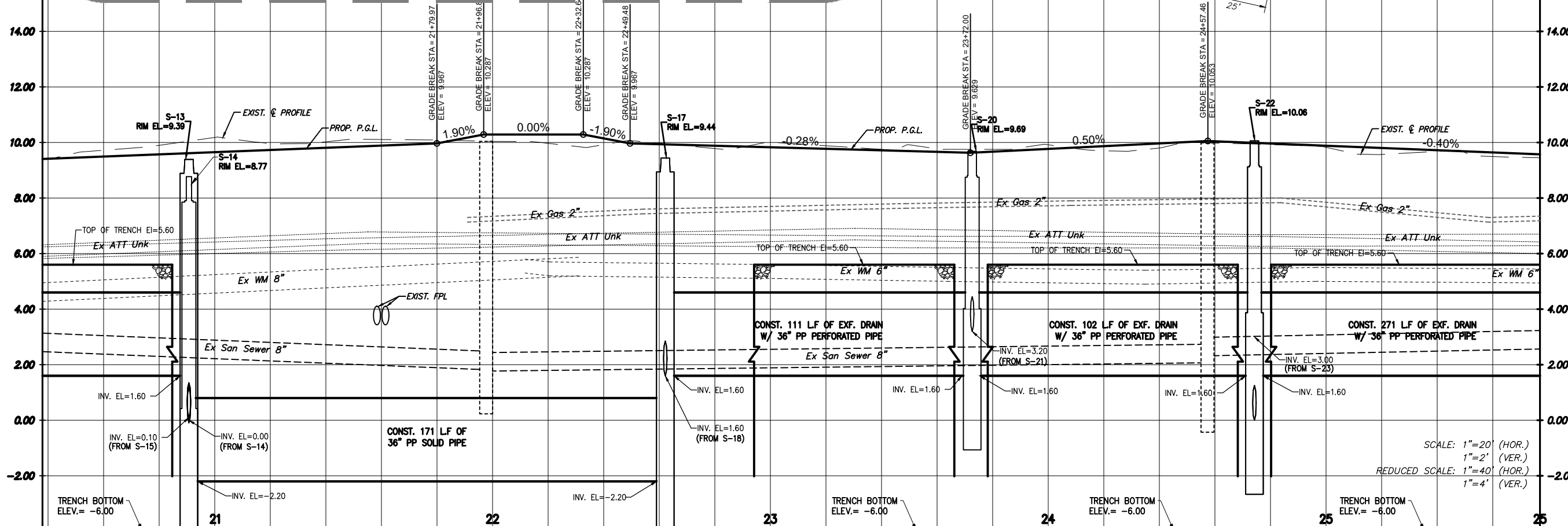
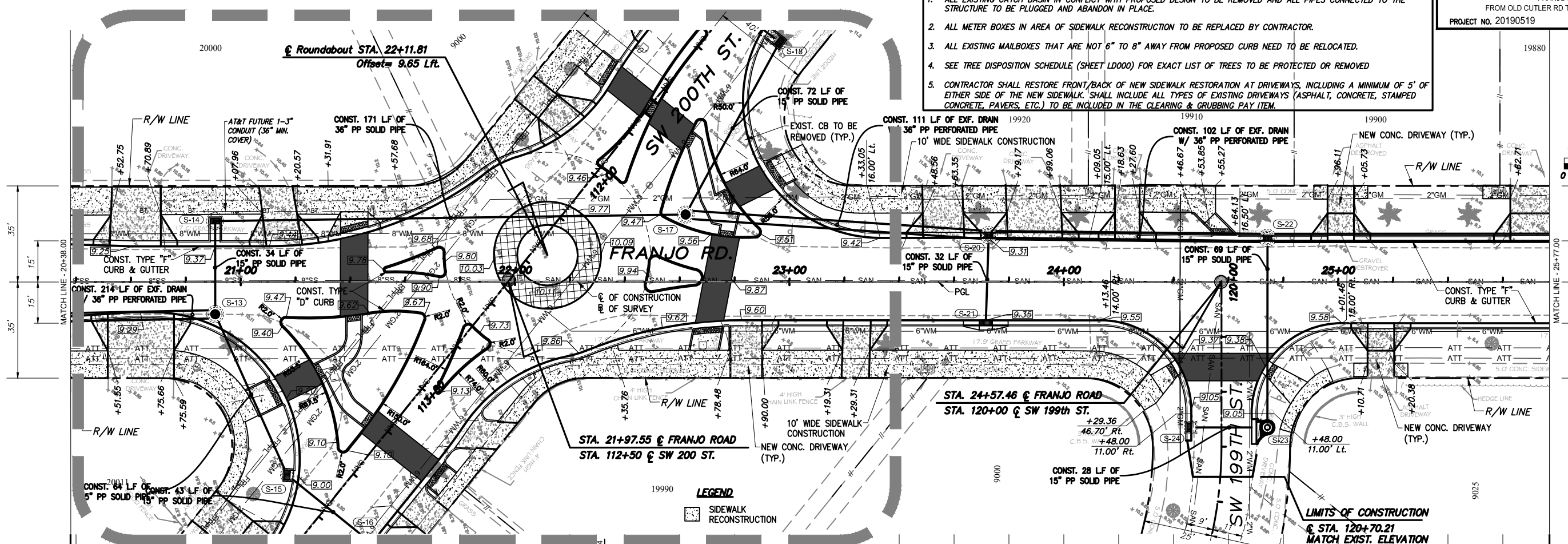
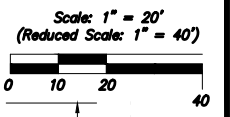
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHEKED BY	CMH	04-2021	CHEKED BY	CMH	04-2021
SUPERVISED BY					

PLAN & PROFILE

PLOTTED BY: MOBILES, R00, DATE: 3/20/2023, 12:45 PM  
CREATED: 2023-02-15 - 10:21:56 AM (V:\2156\ACTIVE\215619952\FRANJO\_PLAN & PROFILE\_01.DWG)

- 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.



REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE



PLAN & PROFILE

PLOTTED BY: MOBILES, RPD, DATE: 3/20/2023, 12:46 PM  
 CREATOR: 2023-02-15 - \\A2156\MOBILE\2156\DESIGN\DRAWING\CIVIL\DESIGN\DRAWING\FRANJO\_PLAN & PROFILE\_01.DWG

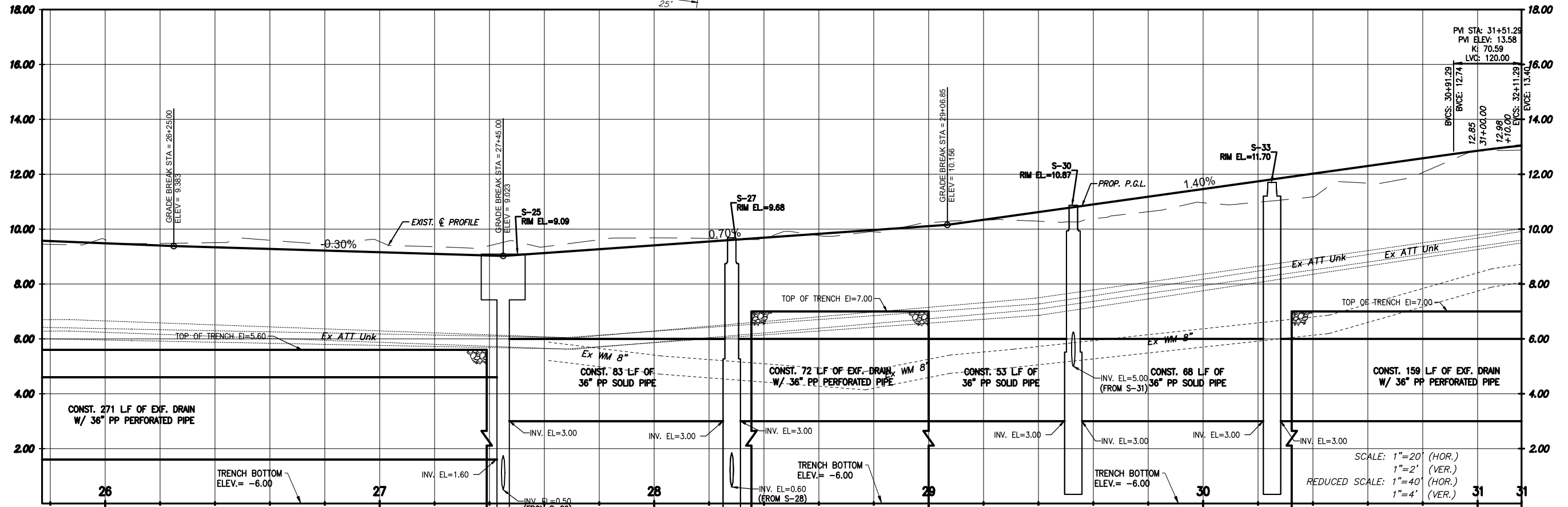
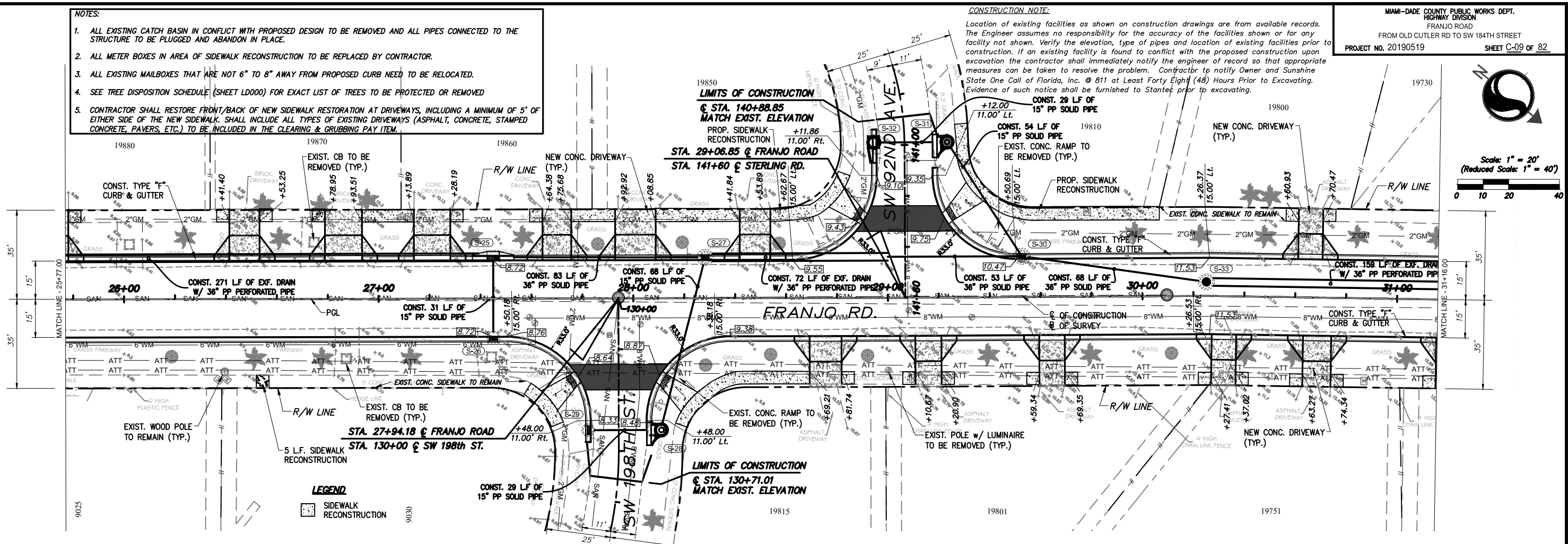


- NOTES:**
1. ALL EXISTING CATCH BASIN IN CONFLICT WITH PROPOSED DESIGN TO BE REMOVED AND ALL PIPES CONNECTED TO THE STRUCTURE TO BE PLUGGED AND ABANDON IN PLACE.
  2. ALL METER BOXES IN AREA OF SIDEWALK RECONSTRUCTION TO BE REPLACED BY CONTRACTOR.
  3. ALL EXISTING MAILBOXES THAT ARE NOT 6" TO 8" AWAY 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 notice shall be furnished to Stantec prior to excavating.



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



PLOTTED BY: MOBILES, RFD DATE: 3/20/2023 12:47 PM  
 CREATOR: 2023-02-15 - \\A2156\ACTIVE\215619952\CIVIL\DESIGN DRAWING\CIVIL PLANS\15992\_FRANJO\_PLAN & PROFILE\_01.DWG

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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

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

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

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

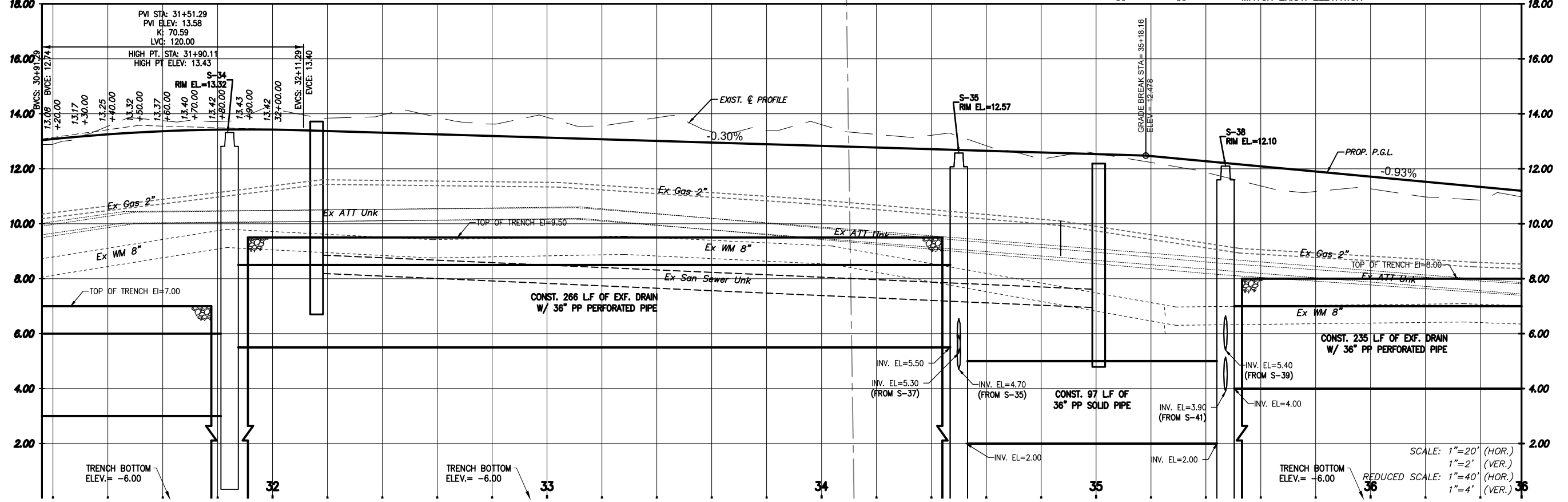
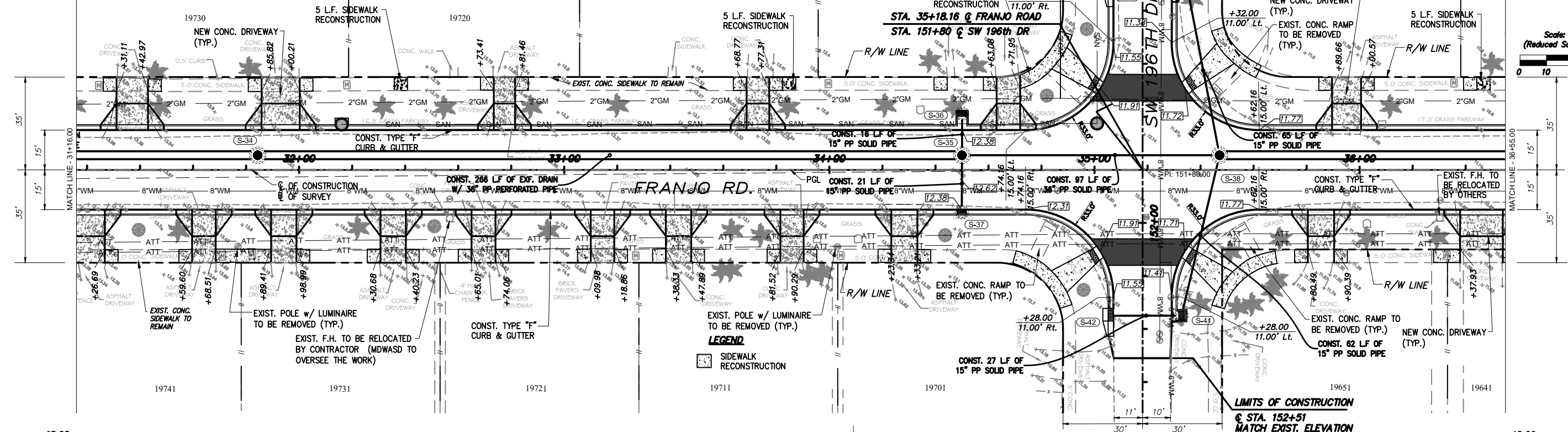
**PLAN & PROFILE**

- 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 notice shall be furnished to Stantec prior to excavating.



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



**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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



PLAN & PROFILE

PLOTTED BY: MORALES, ROD. DATE: 3/20/2023 12:48 PM  
 CREATOR: 2023-02-15 - 15/2156/MORALE/215619952/FRANJO\_PLAN & PROFILE\_01.DWG



**CONSTRUCTION NOTE:**

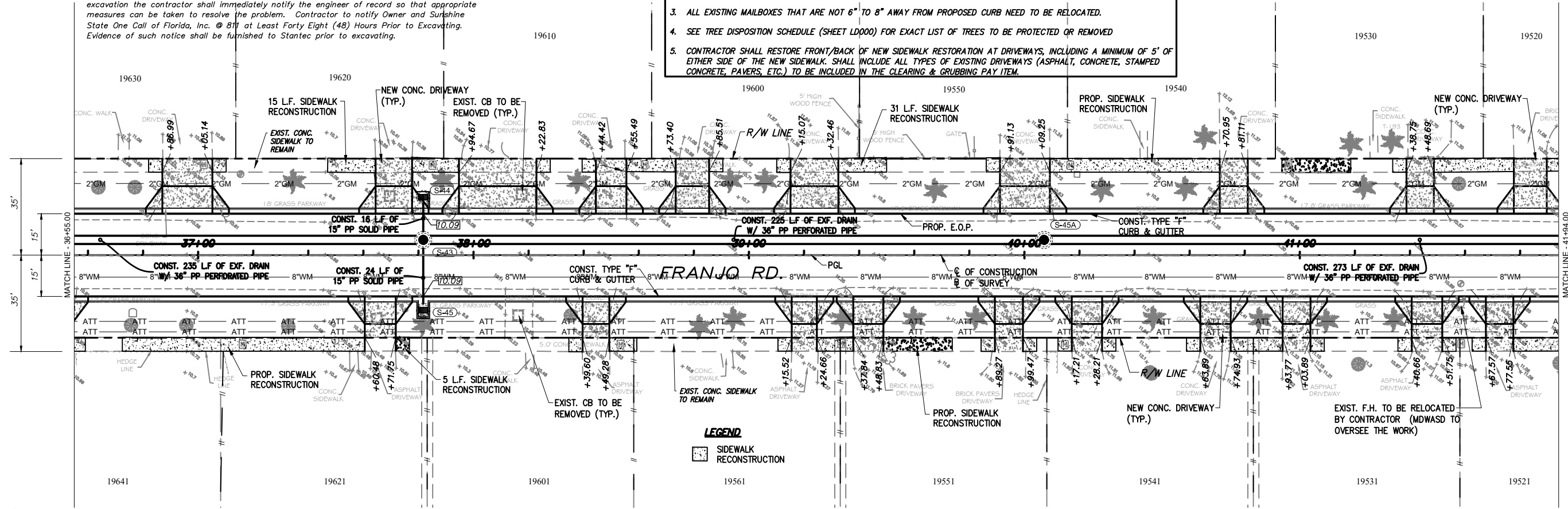
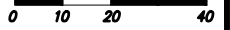
Location of existing facilities as shown on construction drawings are from available records. The Engineer assumes no responsibility for the accuracy of the facilities shown or for any facility not shown. Verify the elevation, type of pipes and location of existing facilities prior to construction. If 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 notice shall be furnished to Stantec prior to excavating.

**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.

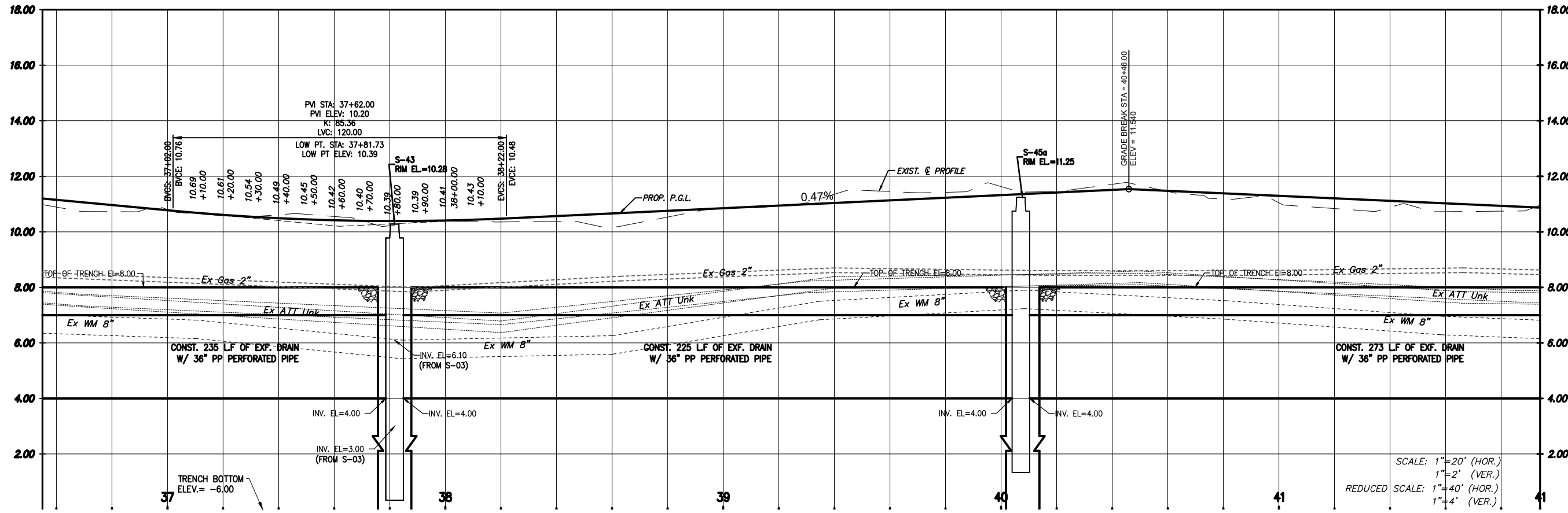


Scale: 1" = 20'  
(Reduced Scale: 1" = 40')



**LEGEND**  

 SIDEWALK RECONSTRUCTION



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



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.

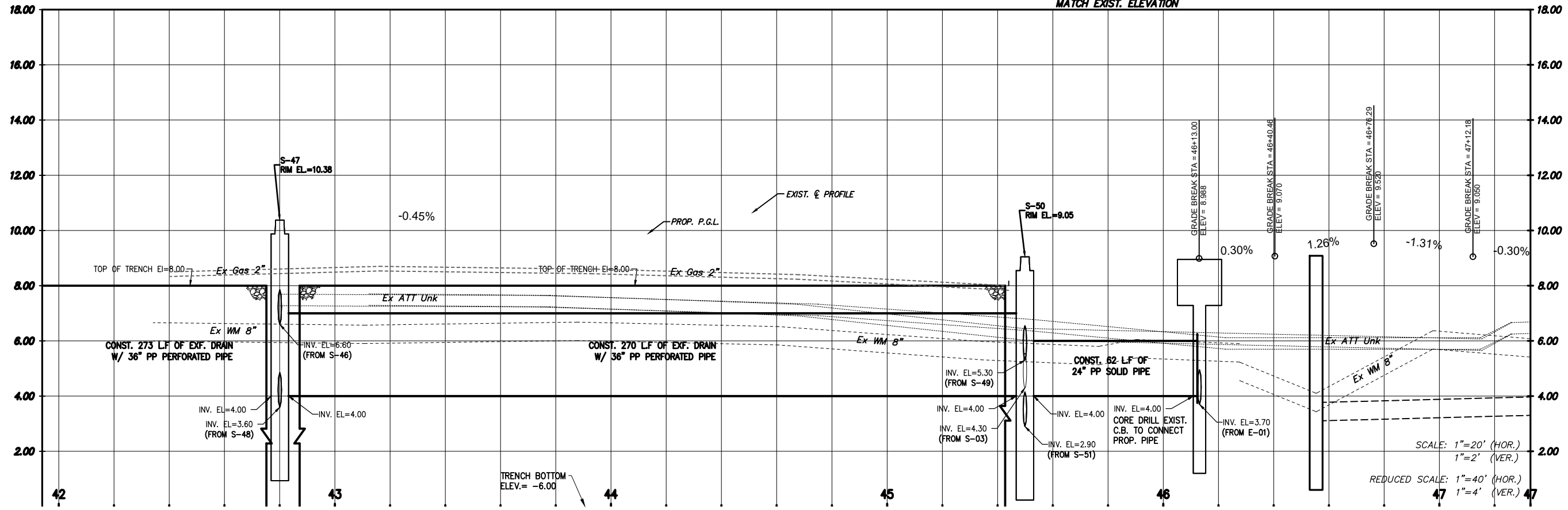
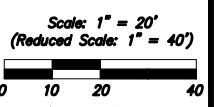
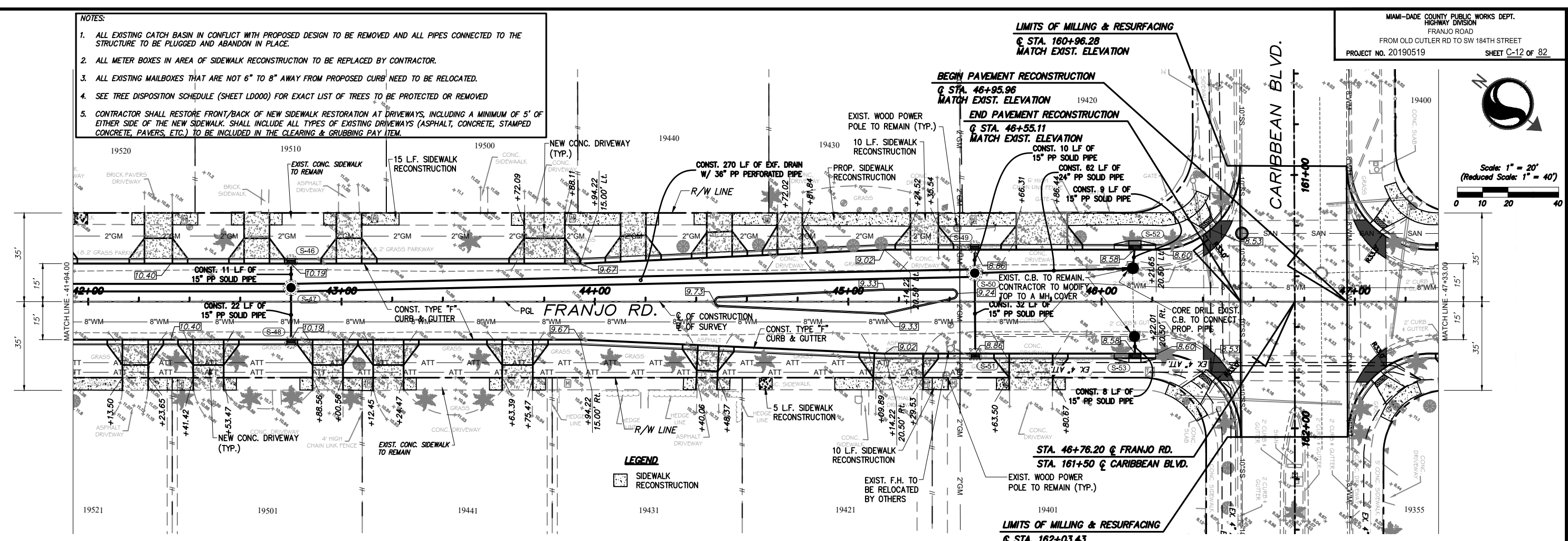
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHECKED BY	CMH	04-2021	CHECKED BY	CMH	04-2021
SUPERVISED BY					



**PLAN & PROFILE**

PLOTTED BY: MORALES, ROD. DATE: 3/20/2023 12:49 PM  
 CREATOR: 2023-02-15 - \\A2156\WORKING\215619952\FRANJO\_PLAN & PROFILE\_01.DWG

- 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.



PLOTTED BY: MOBILES, R00 DATE: 3/20/2023 12:49 PM  
 CREATOR: 2023-02-15 - \\A\2156\MOBILE\215619952\_FRANJO\_PLAN & PROFILE\_01.DWG

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE



**PLAN & PROFILE**





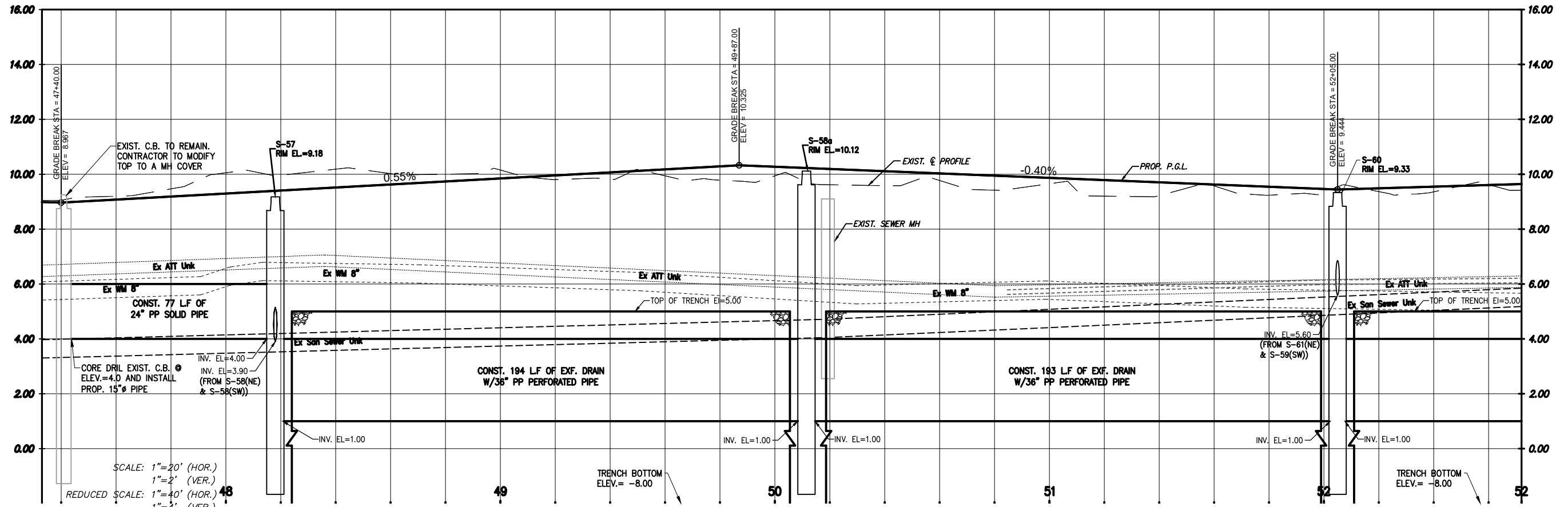
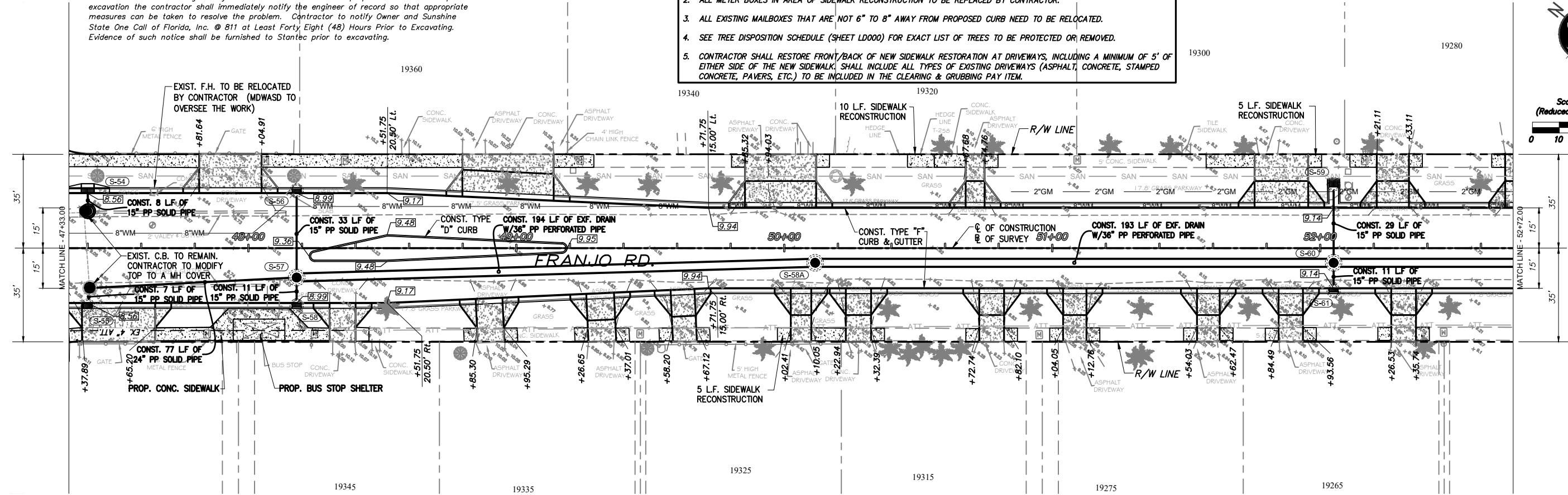
Scale: 1" = 20'  
 (Reduced Scale: 1" = 40')

**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 notice shall be furnished to Stantec prior to excavating.

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

PLOTTED BY: MORALES, ROD. DATE: 3/20/2023 12:50 PM  
 CREATOR: 2023-03-20 - \\A2156\WORK\215619952\FRANJO\_PLAN & PROFILE\_02.DWG

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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

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

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

PLAN & PROFILE



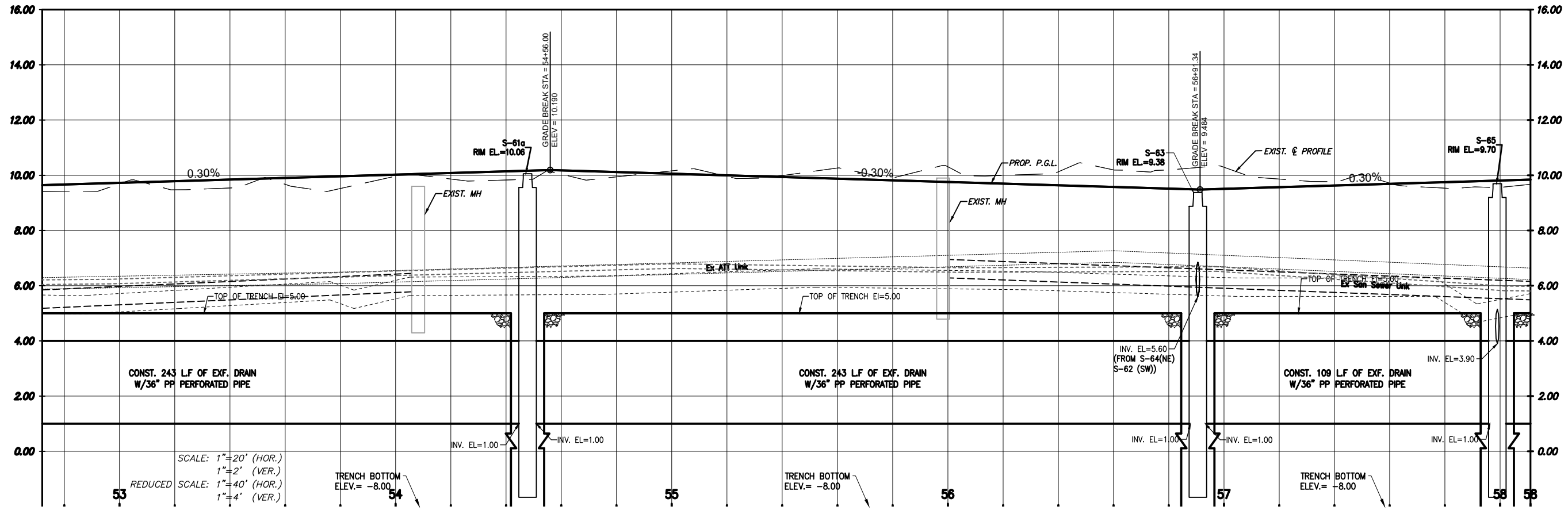
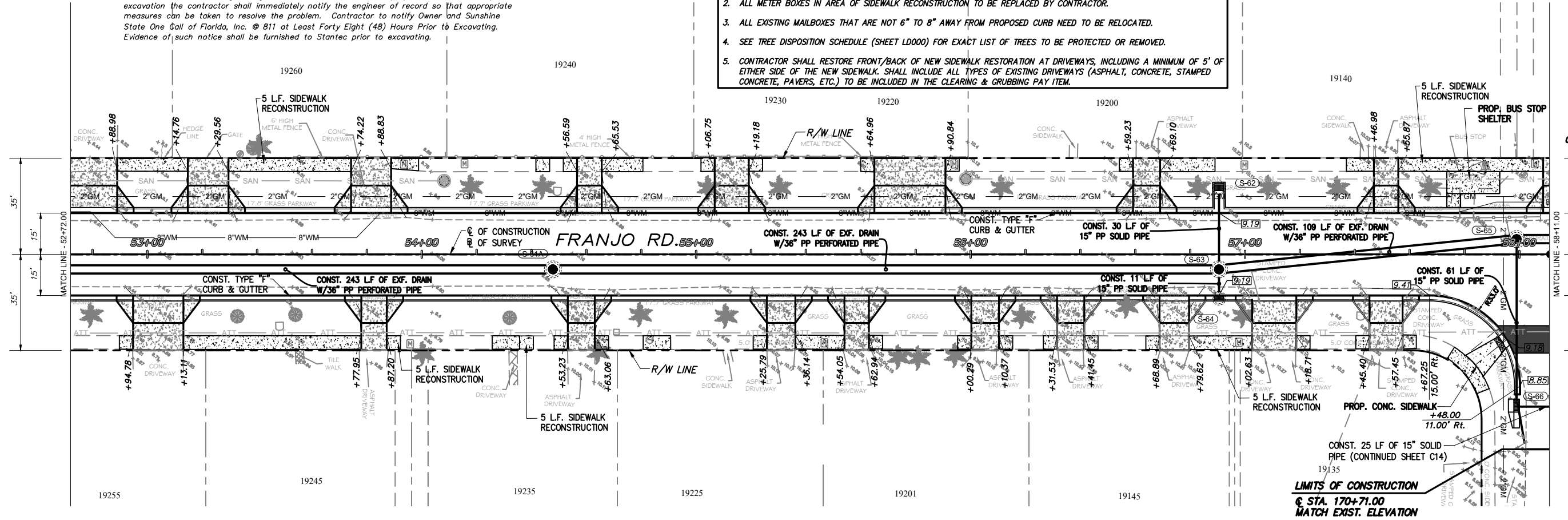
Scale: 1" = 20'  
(Reduced Scale: 1" = 40')

**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 notice shall be furnished to Stantec prior to excavating.

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

**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

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

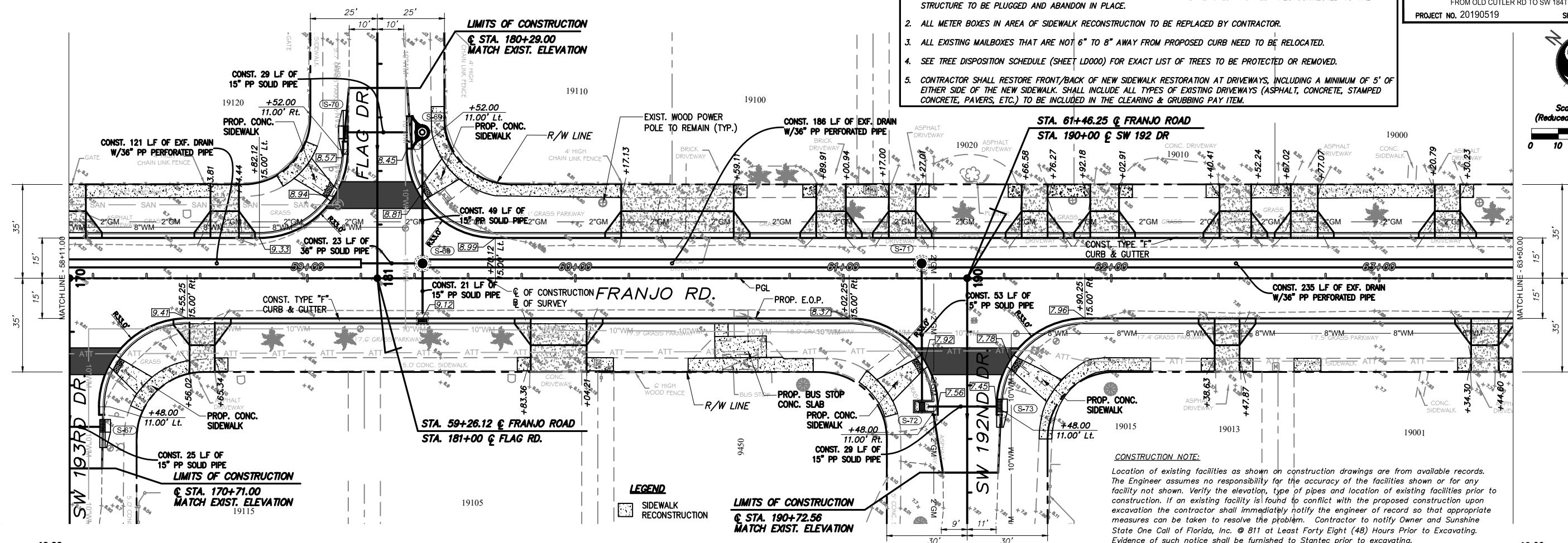
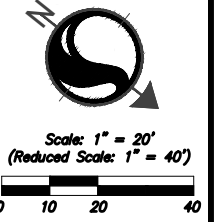


**PLAN & PROFILE**

PLOTTED BY: MORALES, ROD. DATE: 3/20/2023 12:51 PM  
CREATED: 2023-03-20 10:21:56 AM C:\PROJECTS\21919952\CIVIL\DESIGN DRAWING\CIVIL PLANS\19952\_FRANJO\_PLAN & PROFILE\_02.DWG

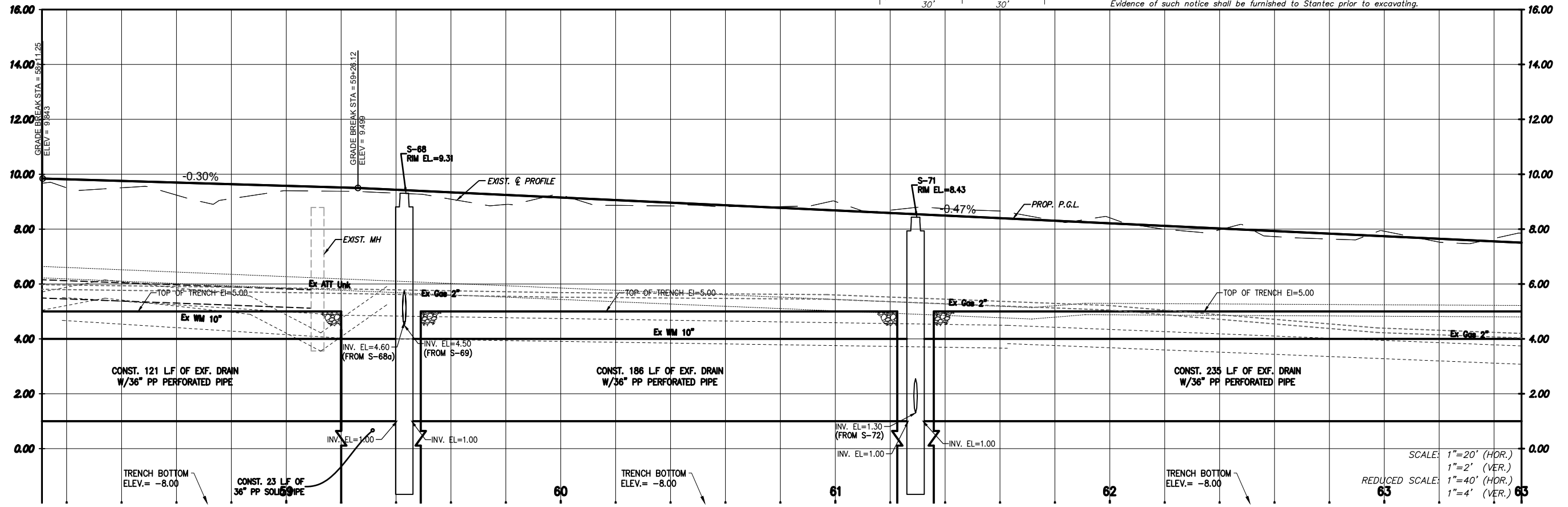


- NOTES:
1. ALL EXISTING CATCH BASIN IN CONFLICT WITH PROPOSED DESIGN TO BE REMOVED AND ALL PIPES CONNECTED TO THE STRUCTURE TO BE PLUGGED AND ABANDON IN PLACE.
  2. ALL METER BOXES IN AREA OF SIDEWALK RECONSTRUCTION TO BE REPLACED BY CONTRACTOR.
  3. ALL EXISTING MAILBOXES THAT ARE NOT 6" TO 8" AWAY 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.



**LEGEND**  
 SIDEWALK RECONSTRUCTION

**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 notice shall be furnished to Stantec prior to excavating.



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

**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

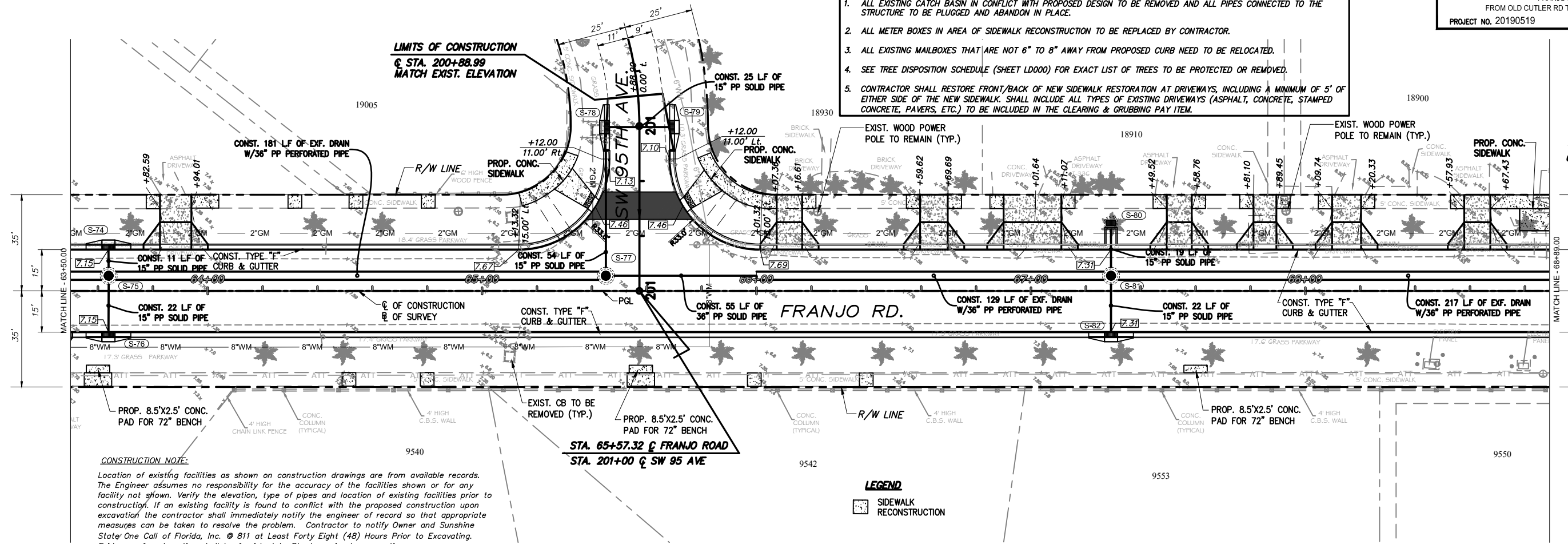
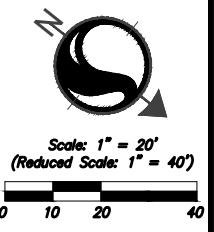
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE



**PLAN & PROFILE**

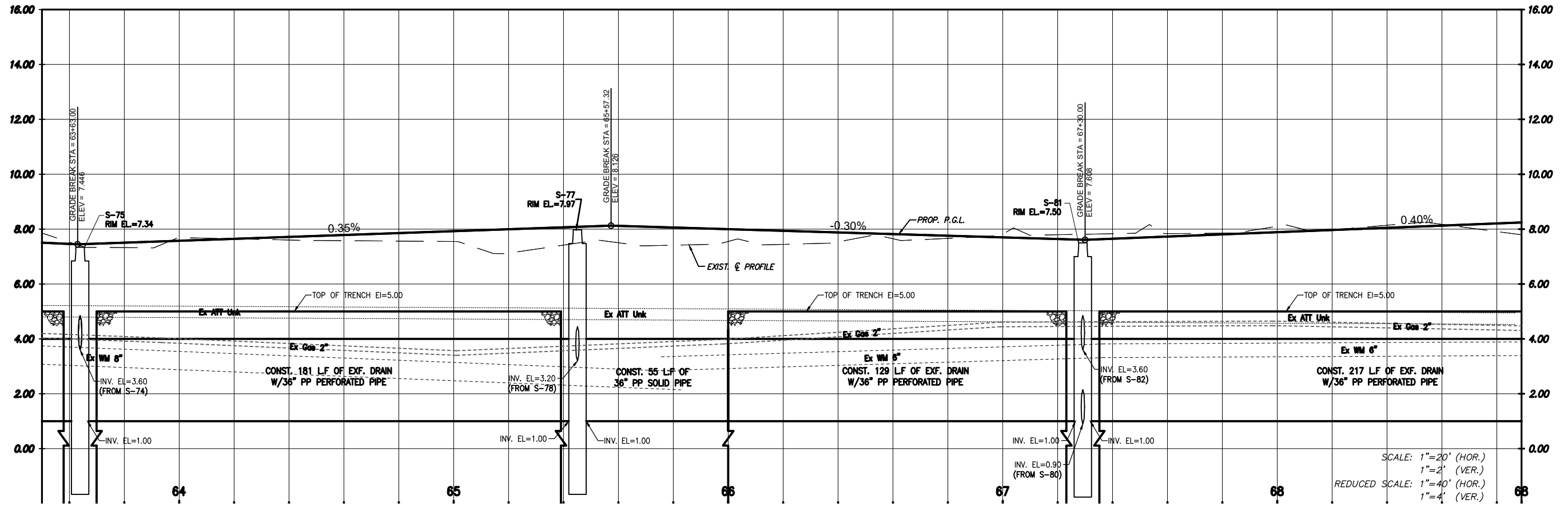
PLOTTED BY: MORALES, ROD. DATE: 3/20/2023 12:52 PM  
 CREATED: 2023-03-20 - 10:21:56 AM (V:\2156\ACTIVE\215619952\FRANJO\_PLAN & PROFILE\_02.DWG)

- NOTES:
- 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.
  - ALL METER BOXES IN AREA OF SIDEWALK RECONSTRUCTION TO BE REPLACED BY CONTRACTOR.
  - ALL EXISTING MAILBOXES THAT ARE NOT 6" TO 8" AWAY FROM PROPOSED CURB NEED TO BE RELOCATED.
  - SEE TREE DISPOSITION SCHEDULE (SHEET LD000) FOR EXACT LIST OF TREES TO BE PROTECTED OR REMOVED.
  - 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 notice shall be furnished to Stantec prior to excavating.

**LEGEND**  
[Symbol] SIDEWALK RECONSTRUCTION



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

**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

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



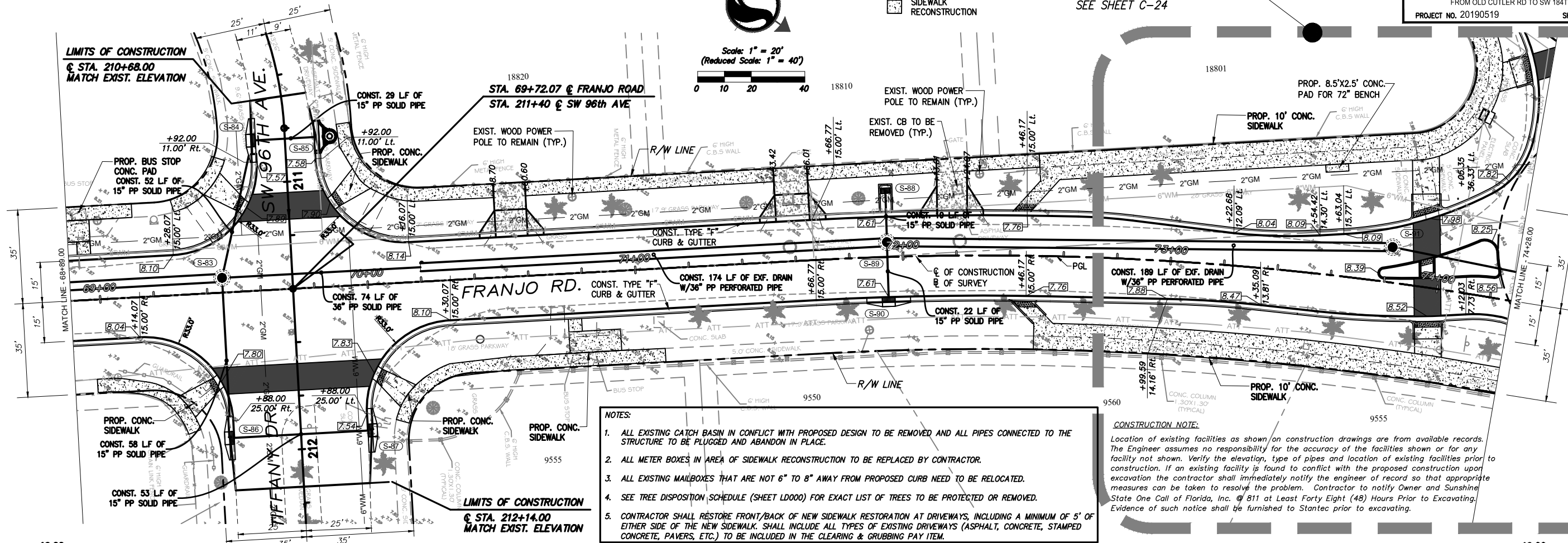
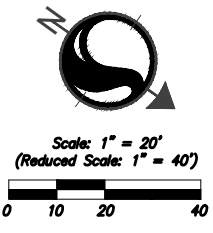
PLAN & PROFILE

PLOTTED BY: MOBILES, R00, DATE: 3/20/2023 12:53 PM  
CREATED: 2023-03-20 - N:\2156\Mobile\215619952\FRANJO\_PLAN & PROFILE\_02.DWG



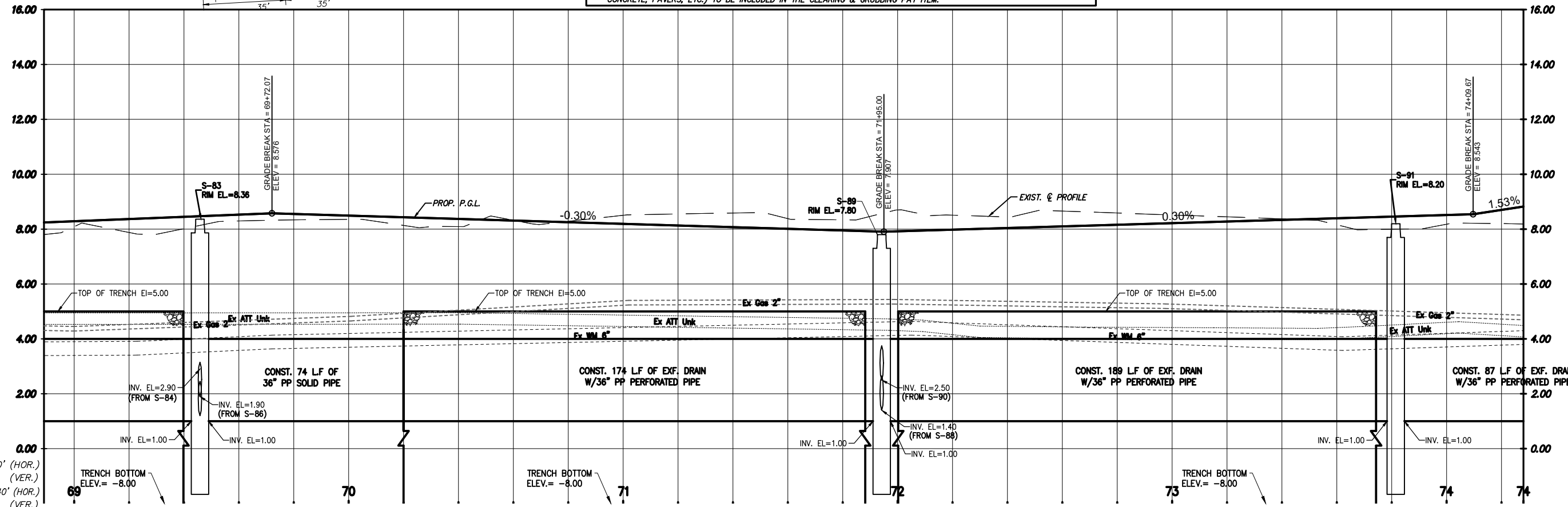
FOR ROUNDABOUT GEOMETRY  
SEE SHEET C-24

**LEGEND**  
[Symbol] 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 notice shall be furnished to Stantec prior to excavating.



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

**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

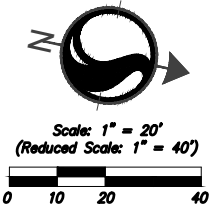
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	CMH	04-2021		RM	04-2021
CHECKED BY	CMH		CHECKED BY	CMH	
SUPERVISED BY:					



**PLAN & PROFILE**

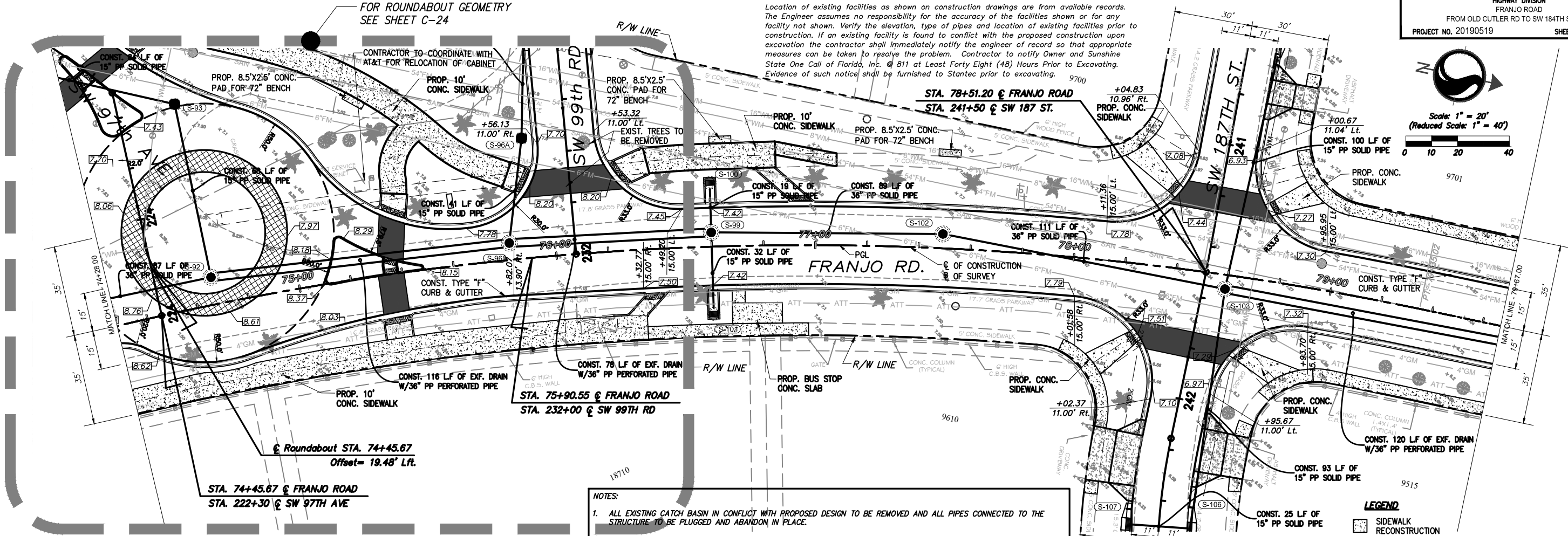
PLOTTED BY: MOBILES, R00, DATE: 3/20/2023 12:54 PM  
 CREATOR: 2023-03-20 - N:\2156\ACTIVE\215619952\CIVIL\DESIGN\DRAWING\CIVIL PLANS\15952\_FRANJO\_PLAN & PROFILE\_02.DWG



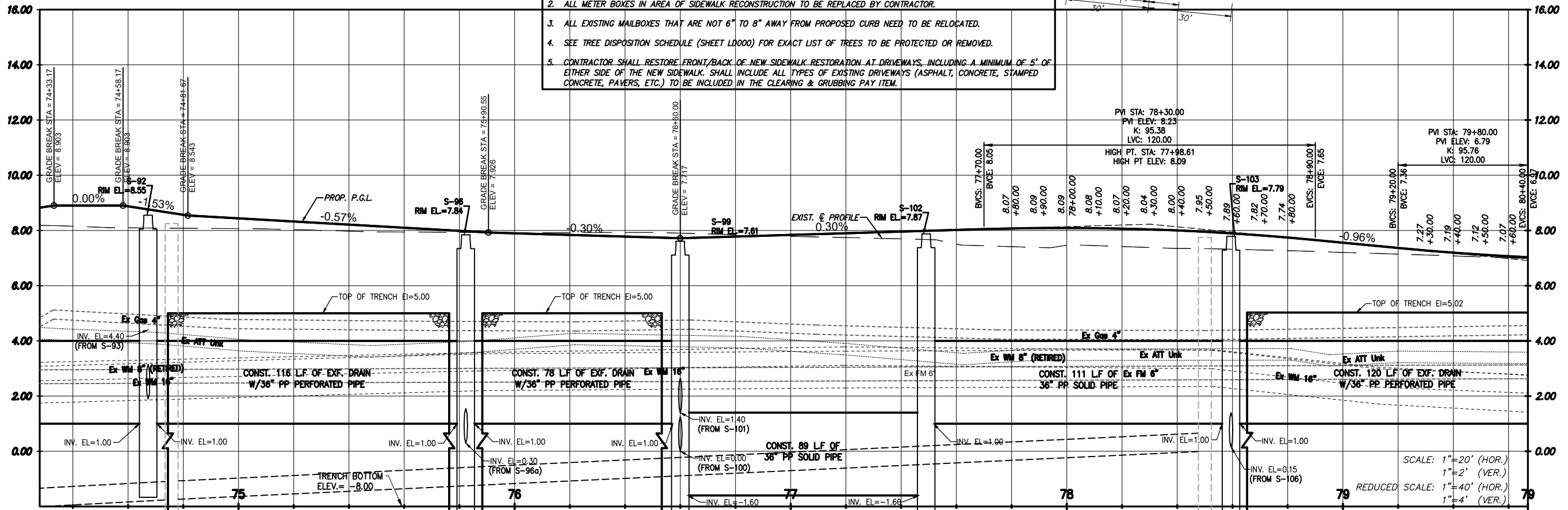


**CONSTRUCTION NOTE:**

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 notice shall be furnished to Stantec prior to excavating.



- 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 L000) 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.



**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



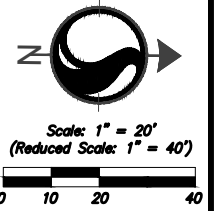
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE



PLAN & PROFILE

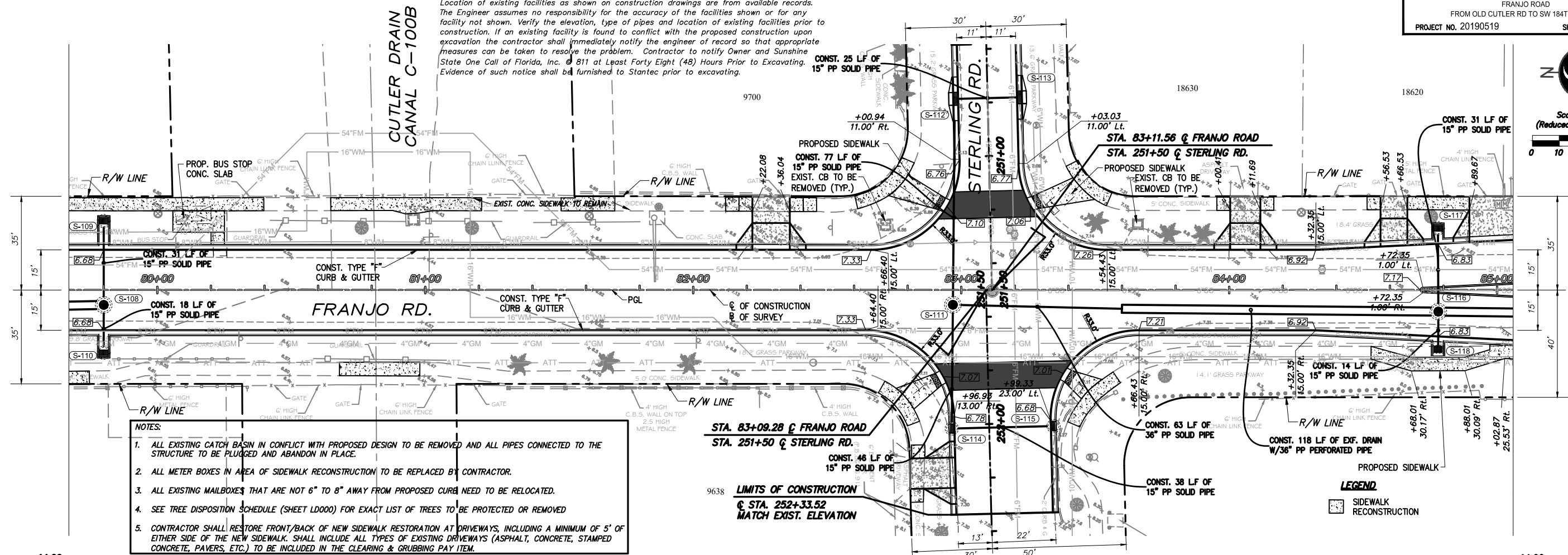
PLOTTED BY: MOBILES, R00, DATE: 3/20/2023 12:55 PM  
 CREATOR: 2023-03-20 - \\A2156\ACTIVE\215619952\CIVIL\DESIGN DRAWING\CIVIL PLANS\15952\_FRANJO\_PLAN & PROFILE\_02.DWG



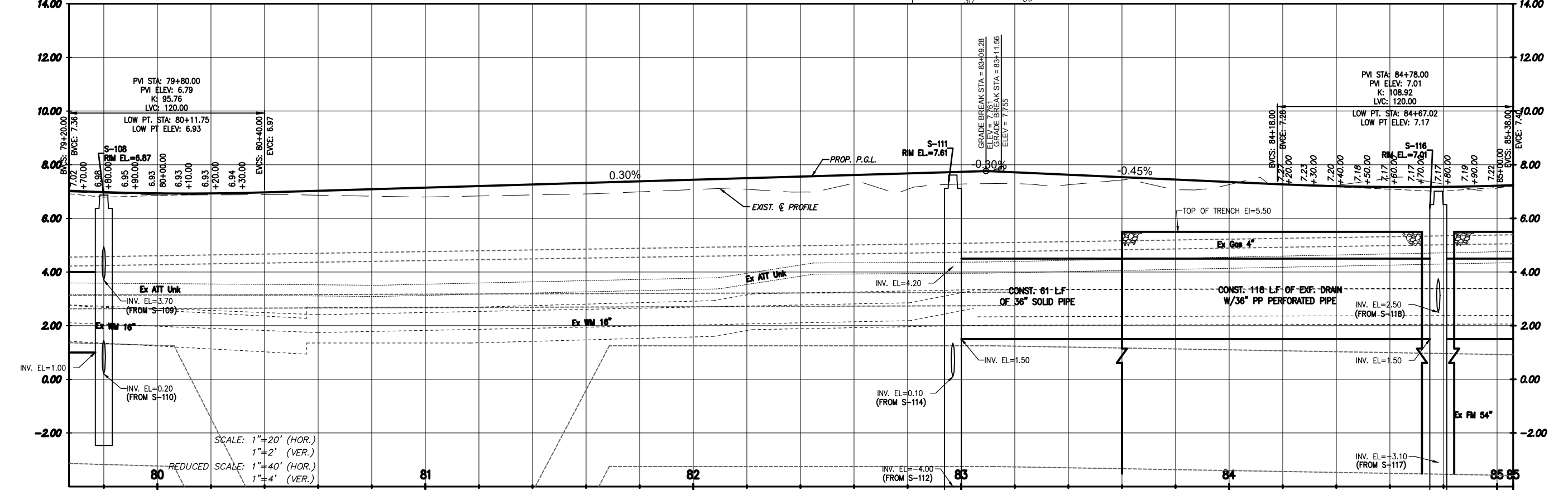


**CONSTRUCTION NOTE:**

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 notice shall be furnished to Stantec prior to excavating.



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

PLOTTED BY: MORALES, ROD. DATE: 3/20/2023 12:56 PM  
CREATED: 2022-09-29 - 10:21:56 AM C:\WORK\2022\190519\CAD\DESIGN\DRAWING\CIVIL\PLANS\190519\FRANJO\_PLAN & PROFILE\_03.DWG

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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

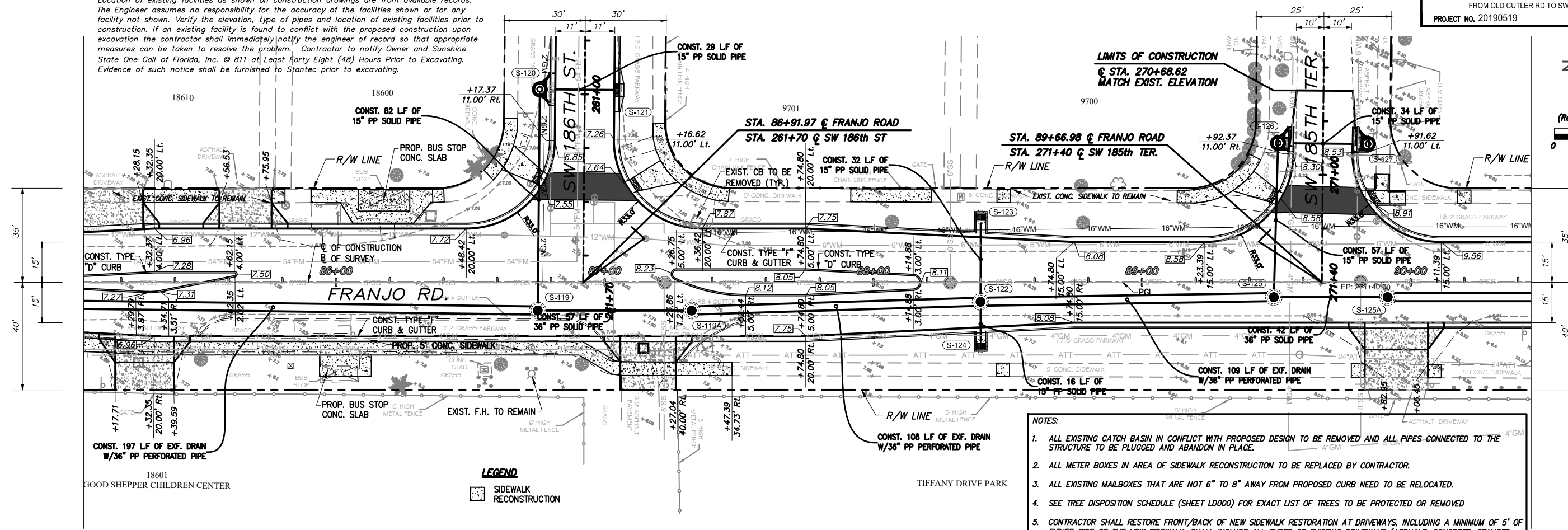
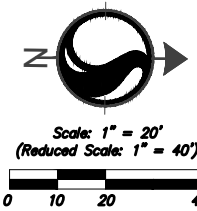
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHEKED BY	CMH	04-2021	CHEKED BY	CMH	04-2021
SUPERVISED BY:					

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

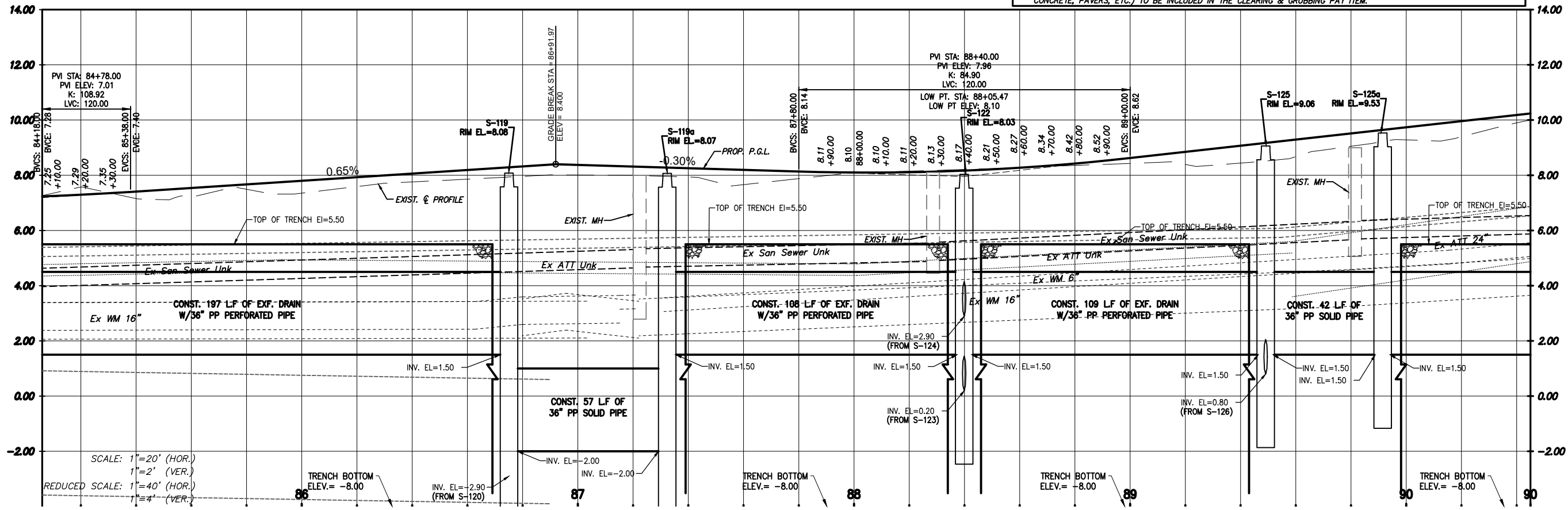
PLAN & PROFILE

**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 notice shall be furnished to Stantec prior to excavating.



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

**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

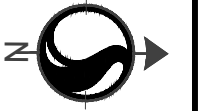
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE



**PLAN & PROFILE**

PLOTTER: BY: MOBILES, R00, DATE: 3/20/2023 12:56 PM  
CREATED: 2022-09-29 - N:\2156\ACTIVE\215619952\CIVIL\DESIGN DRAWING\CIVIL PLANS\15952\_FRANJO\_PLAN & PROFILE\_03.DWG





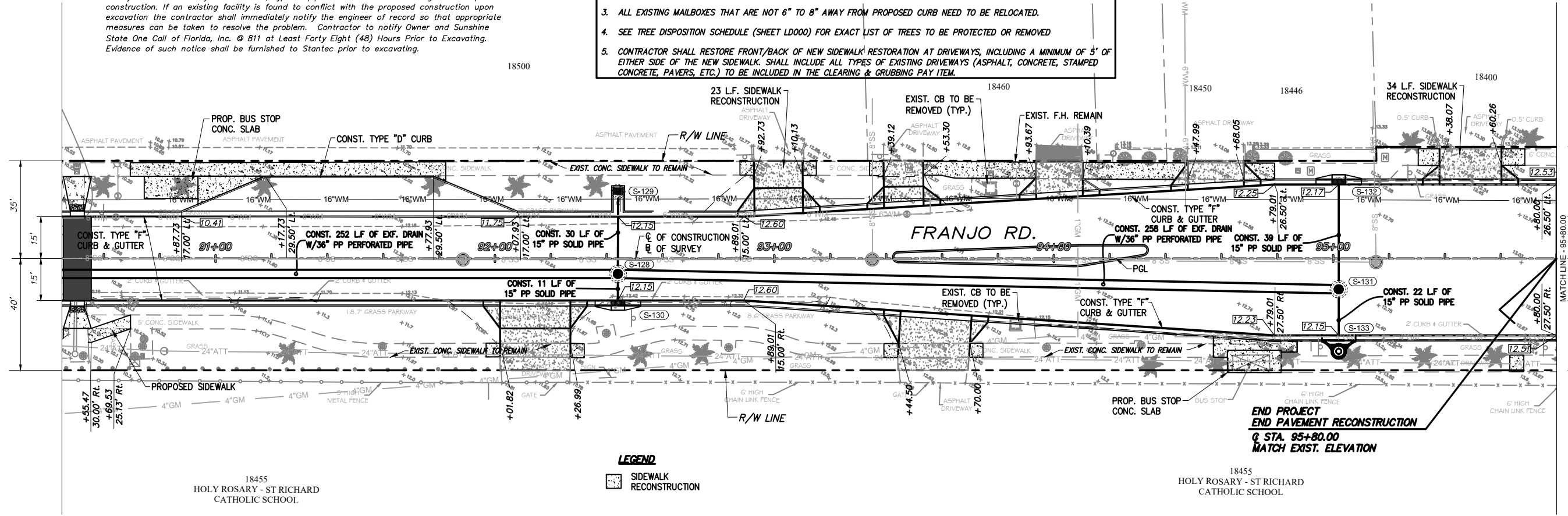
Scale: 1" = 20'  
(Reduced Scale: 1" = 40')

**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 notice shall be furnished to Stantec prior to excavating.

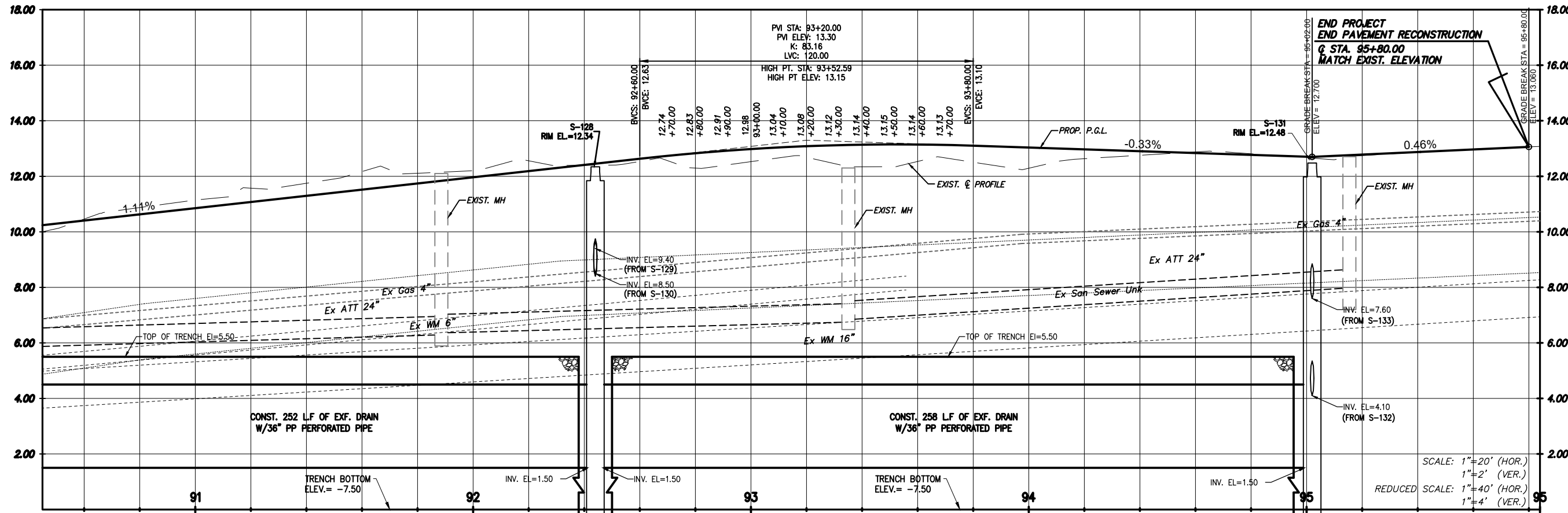
**NOTES:**

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.



**LEGEND**

☐ SIDEWALK RECONSTRUCTION



**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



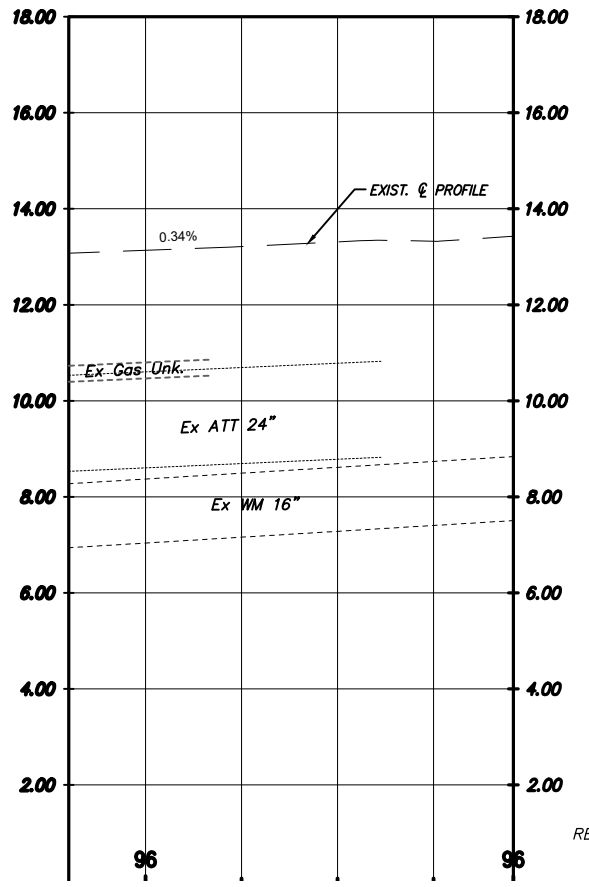
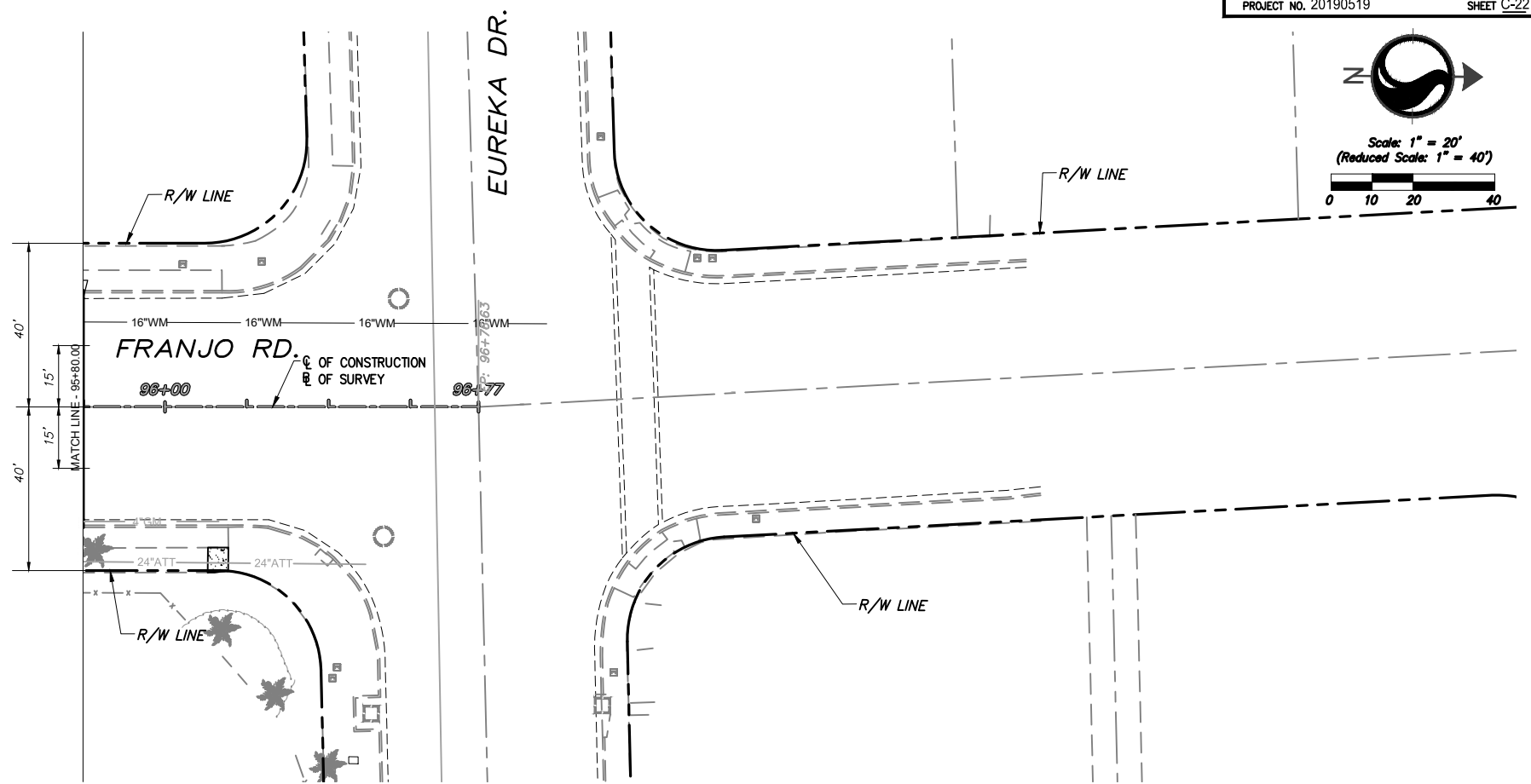
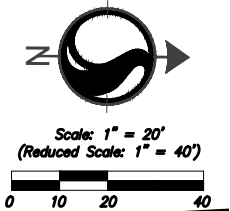
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE



**PLAN & PROFILE**

PLOTTED BY: MORALES, ROD. DATE: 3/20/2023 12:57 PM  
 CREATOR: 2022-09-29 - \\A2156\ACTIVE\215619952\FRANJO\_PLAN & PROFILE\_03.DWG



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

- 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 notice shall be furnished to Stantec prior to excavating.

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY



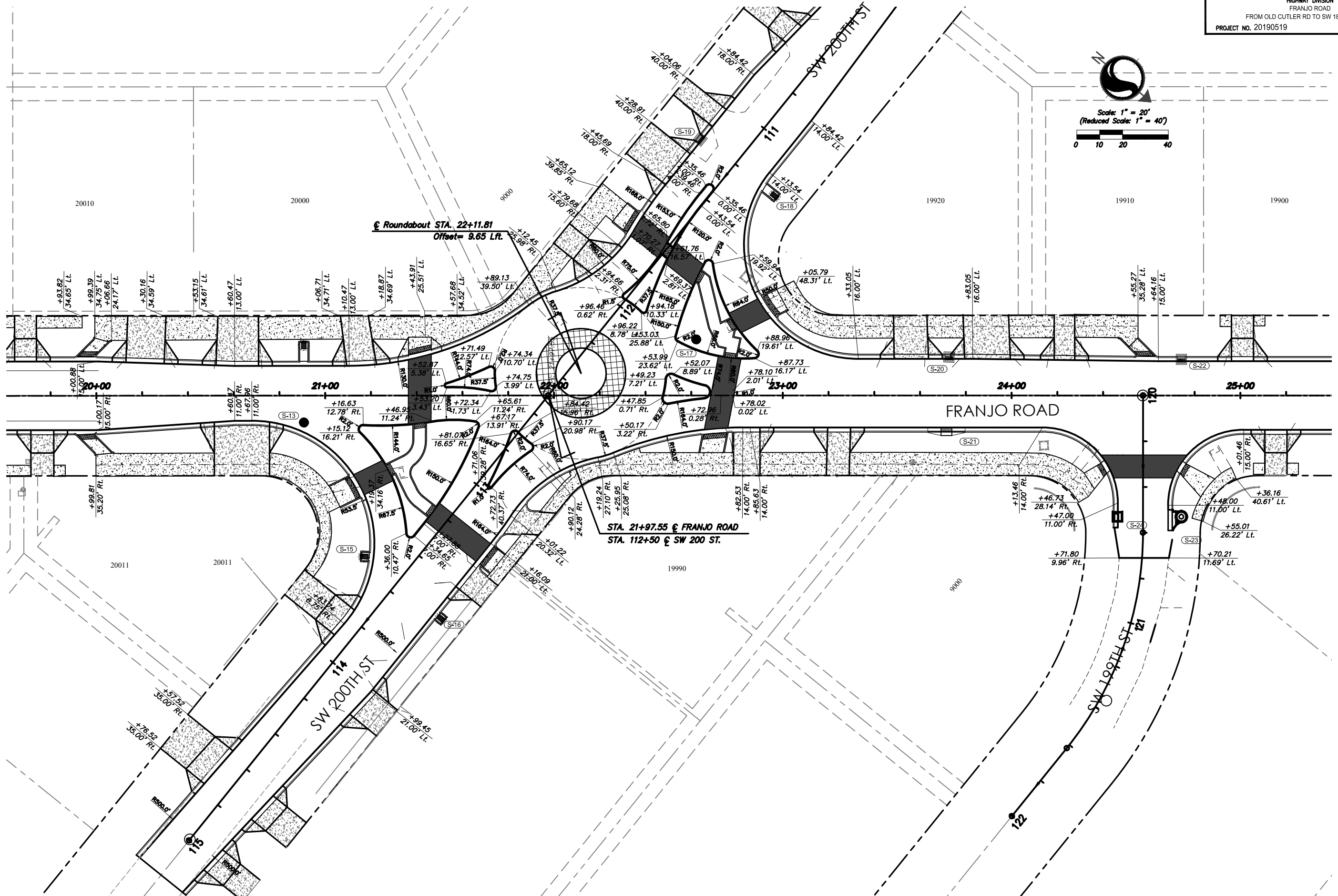
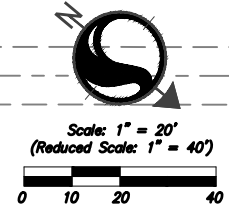
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

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



PLOTTED BY: MOBILES, R00, DATE: 3/20/2023, 12:58 PM  
 CREATED: 2022-09-29 - 10:21:56 AM C:\M\191992\CIVIL\DESIGN\DRAWING\CIVIL PLANS\191992\_FRANJO\_PLAN & PROFILE 03.DWG





REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



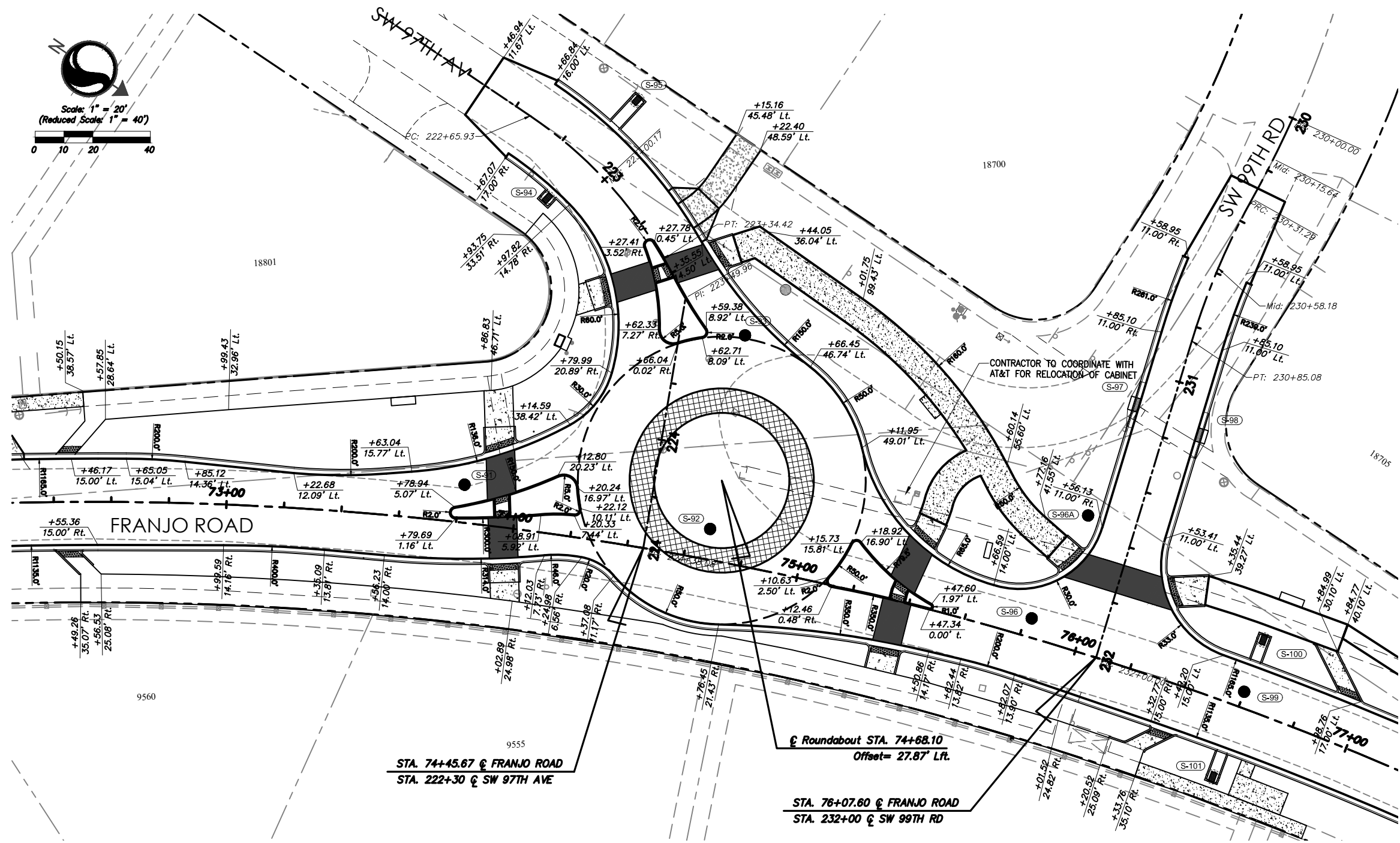
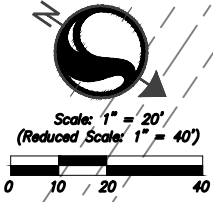
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

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



ROUNDABOUT GEOMETRY

PLOTTED BY: MORALES, ROD. DATE: 2/16/2023 4:53 PM  
 CREATED: 2022-02-04 - 10:21:56 AM (TIME: 21919952) CIVIL DESIGN DRAWING: CIVIL PLANS\19952\_FRANJO\_ROUNDABOUT\_GEOMETRY.DWG



PLOTTED BY: MORALES, ROD. DATE: 2/16/2023 4:54 PM  
 CREATED: 2022-02-04 - 10:21:56 AM C:\PROJECTS\20190519\20190519\DESIGN\DRAWING\CIVIL\PLANS\190519\FRANJO\_ROUNDABOUT\_GEOMETRY.DWG

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions will be reported to Stantec without delay. The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

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

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

**ROUNDABOUT GEOMETRY**

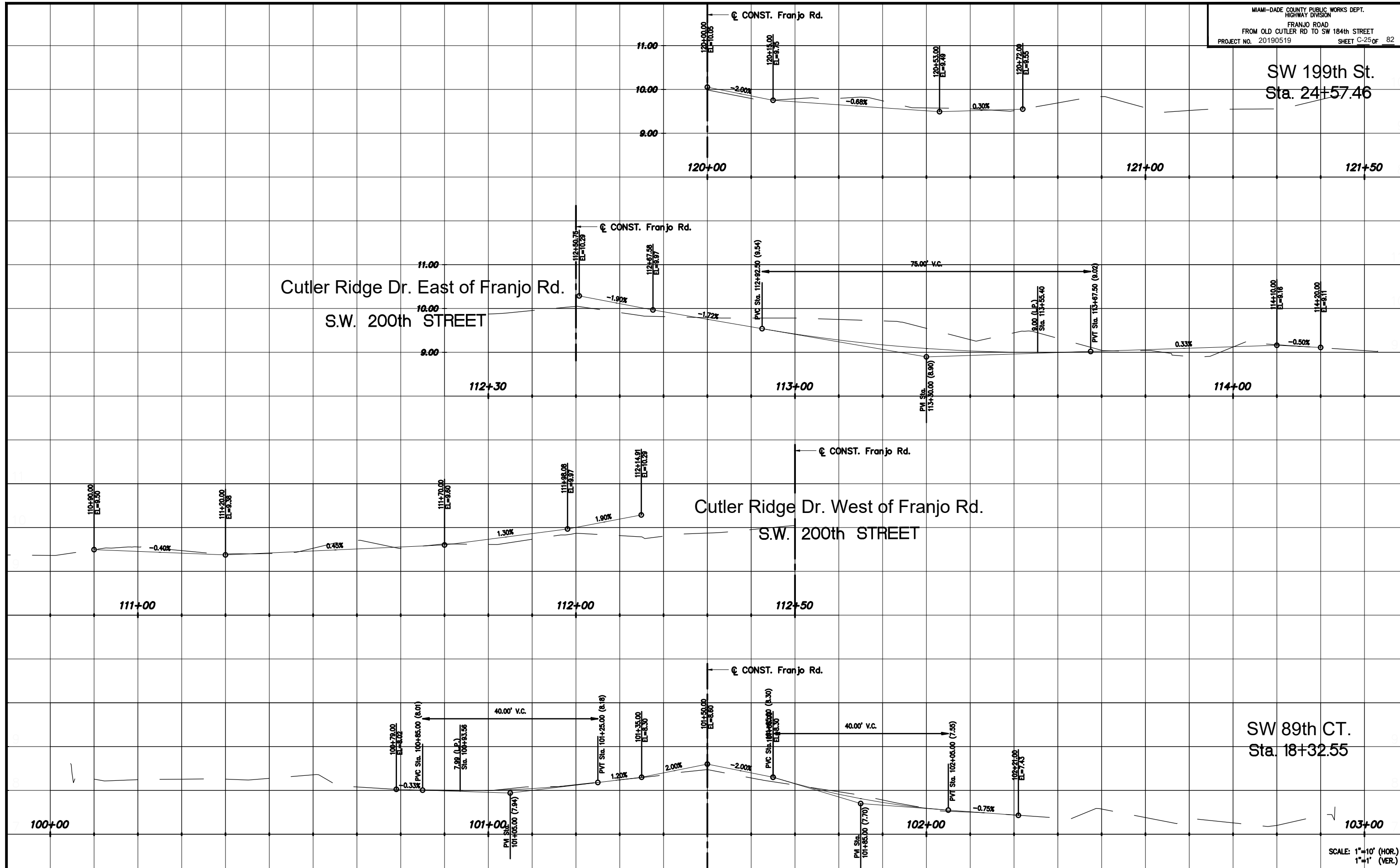


SW 199th St.  
Sta. 24+57.46

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

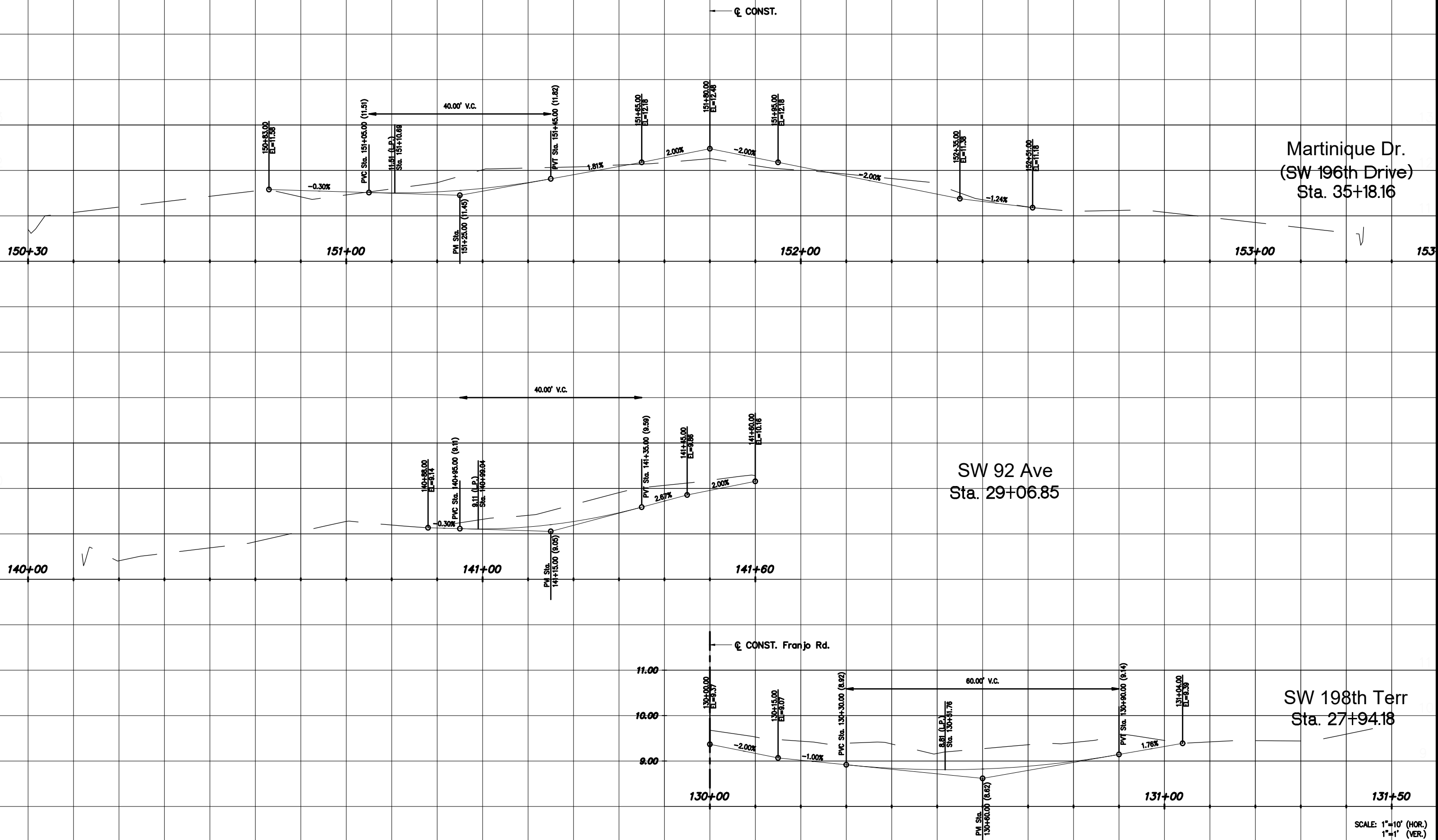


The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	CMH	04/27/21		RM	04/27/21
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

INTERSECTING STREET PROFILES



Martinique Dr.  
(SW 196th Drive)  
Sta. 35+18.16

SW 92 Ave  
Sta. 29+06.85

SW 198th Terr  
Sta. 27+94.18

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

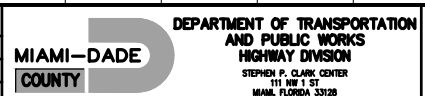
REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



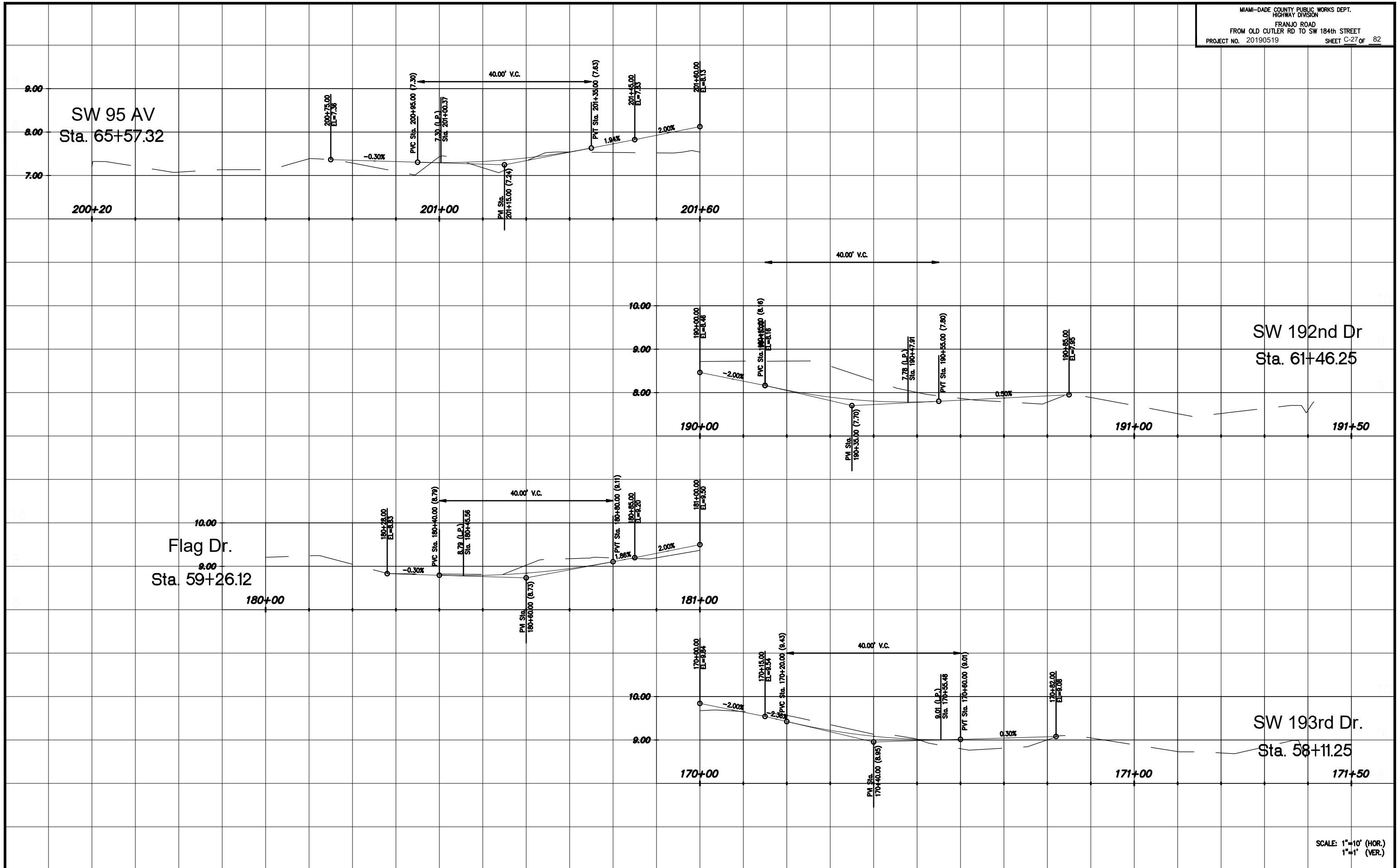
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CMH	CMH	04/27/21	RM	RM	04/27/21
CHECKED BY	CMH		CHECKED BY	CMH	
SUPERVISED BY					



INTERSECTING STREET PROFILES





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

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

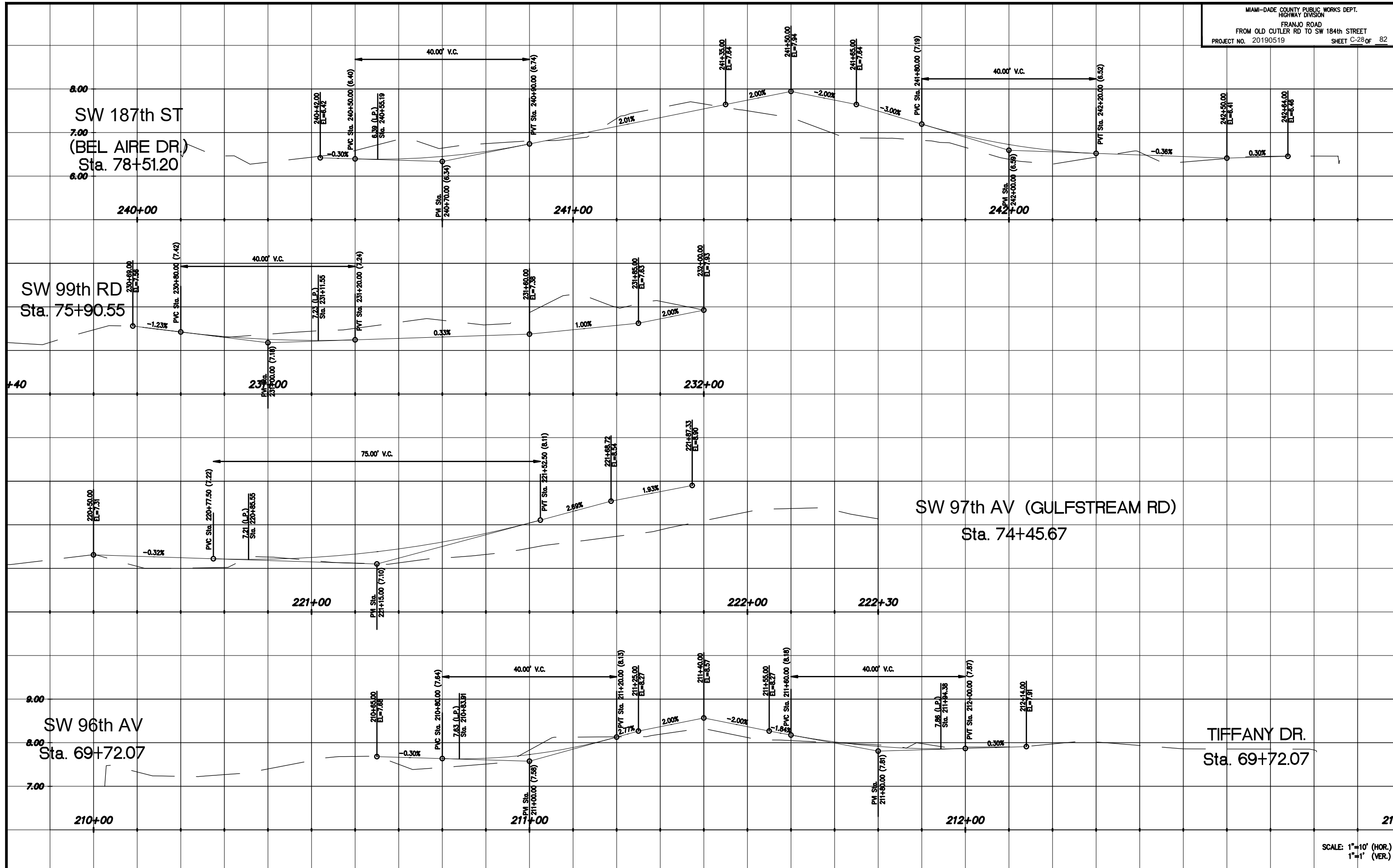


The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CMH	CMH	04/27/21	RM	RM	04/27/21
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

INTERSECTING STREET PROFILES



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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

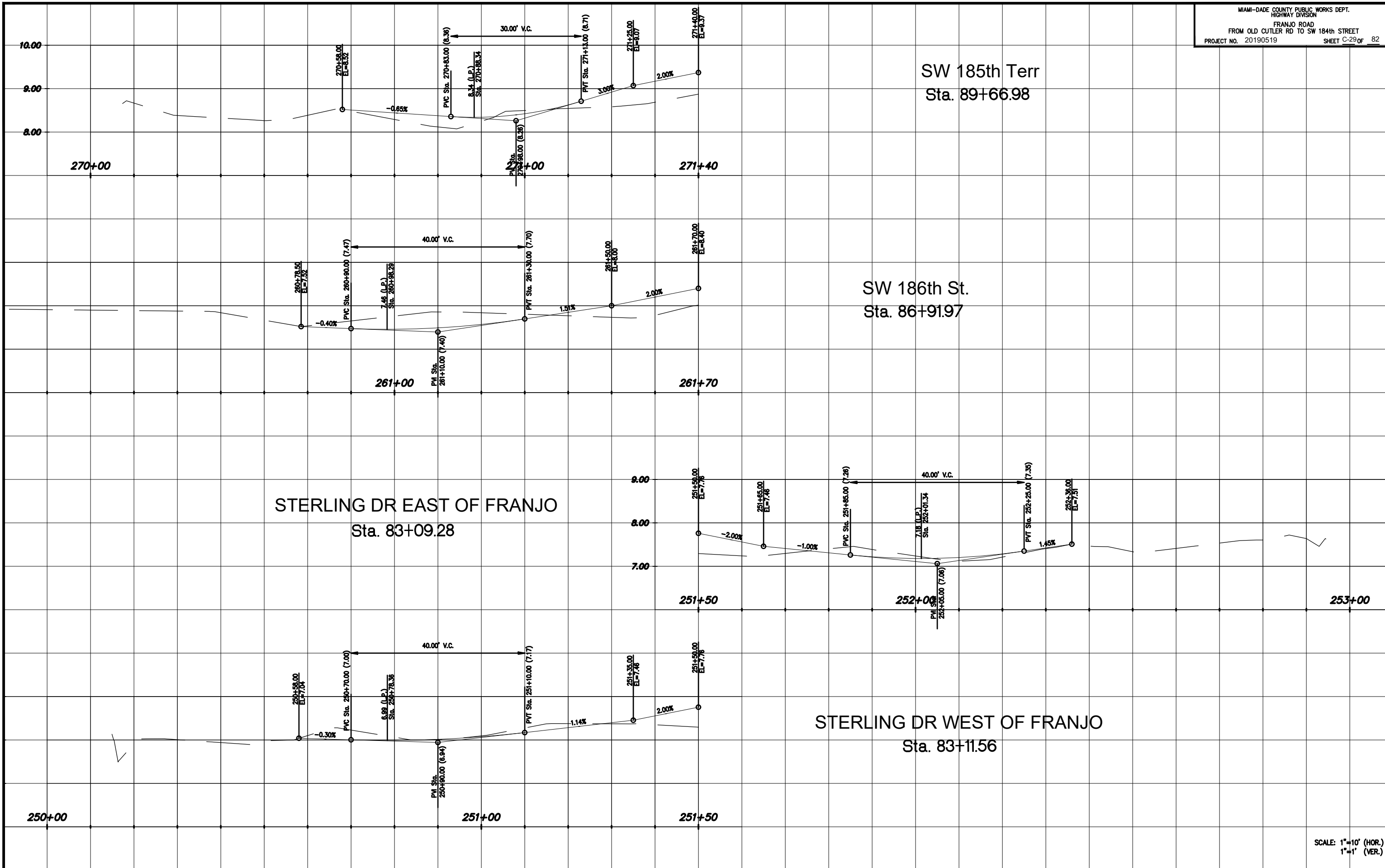


DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHECKED BY	NAME	DATE	CHECKED BY	NAME	DATE
SUPERVISED BY:					

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





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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

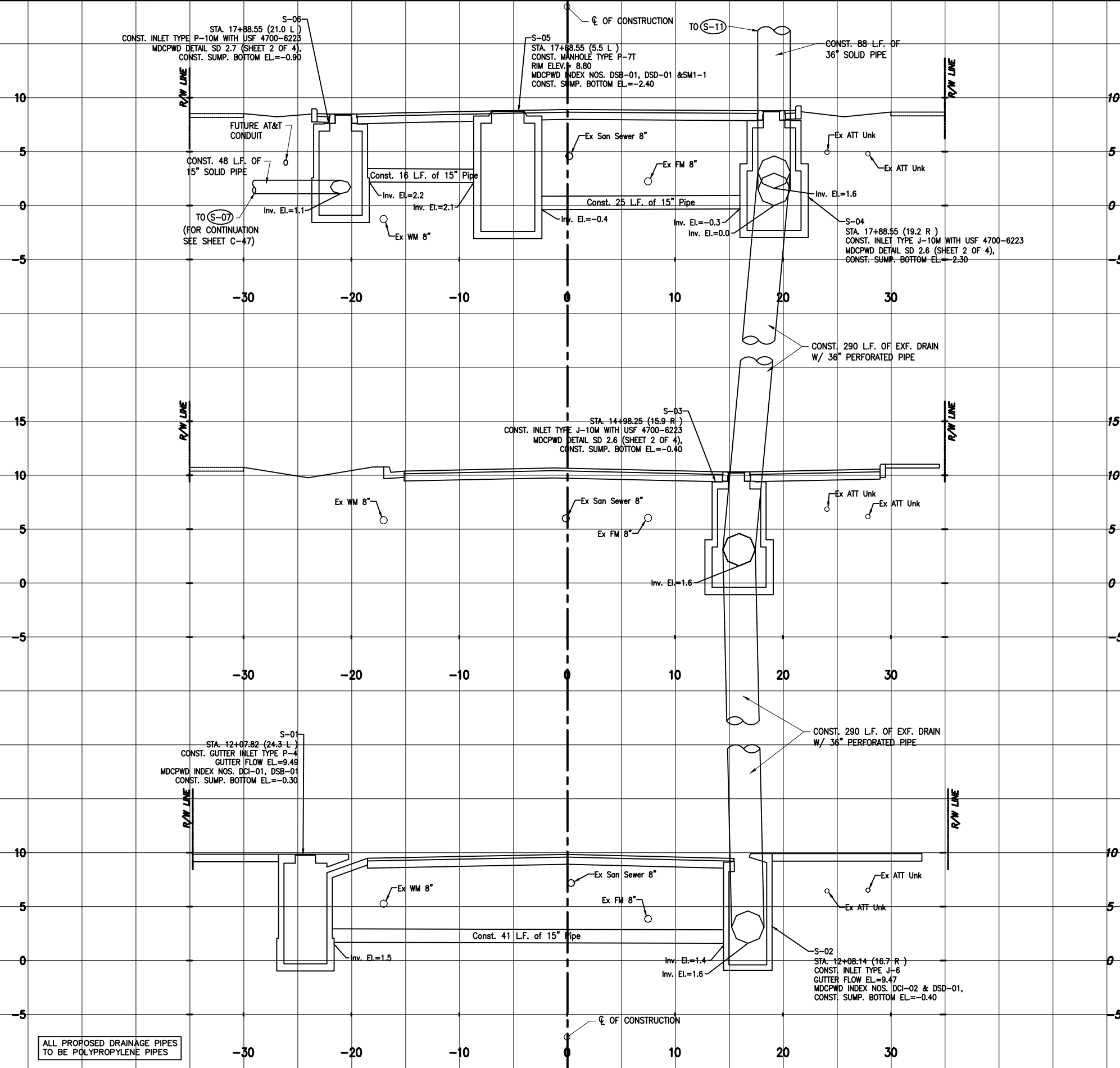


DESIGNED BY	CMH	DATE	04/27/21	DRAWN BY	RM	DATE	04/27/21
CHECKED BY	CMH	CHECKED BY	CMH	SUPERVISOR BY:			

**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**



S-04 S-05 S-06

17+88.5

S-03

14+98.2

S-01 S-02

12+08.0

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



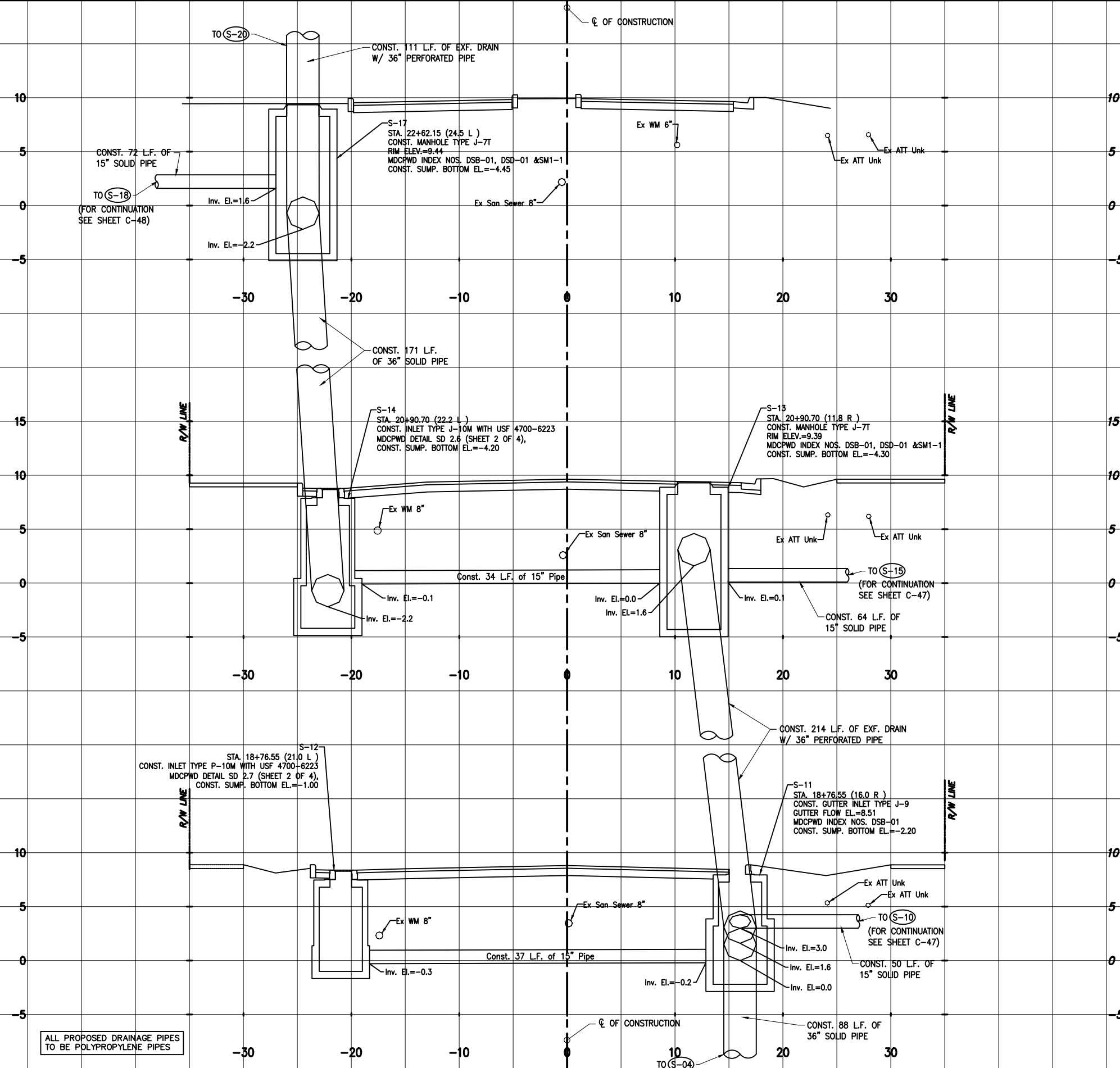
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE

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

DRAINAGE STRUCTURES





(S-17)  
22+62.0

(S-13) (S-14)  
20+90.7

(S-11) (S-12)  
18+76.6

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

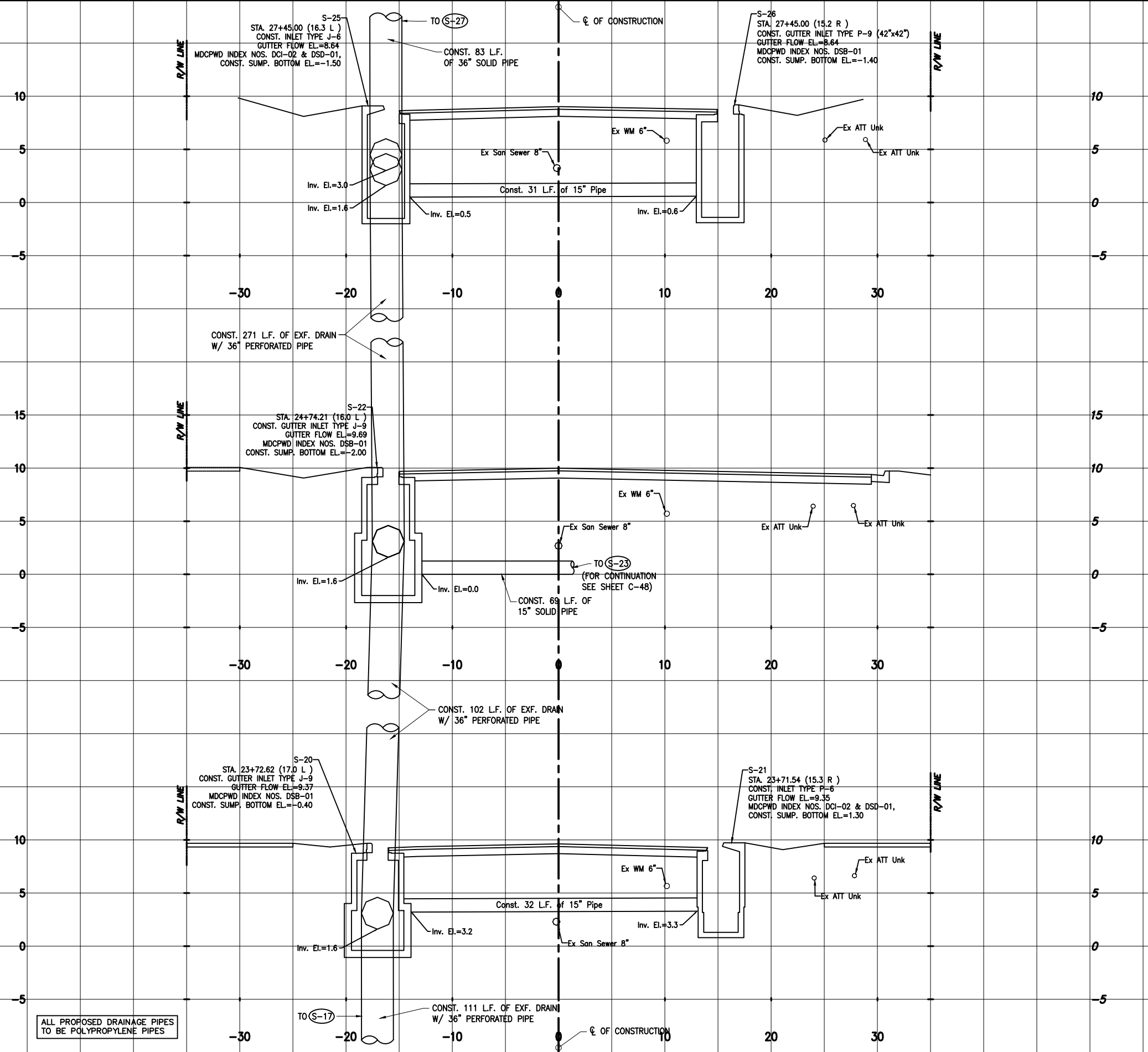


The Contractor shall verify and be responsible for all dimensions, DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE

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

DRAINAGE STRUCTURES



S-25 S-26  
27+45.0

S-22  
24+74.2

S-20 S-21  
23+72.2

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



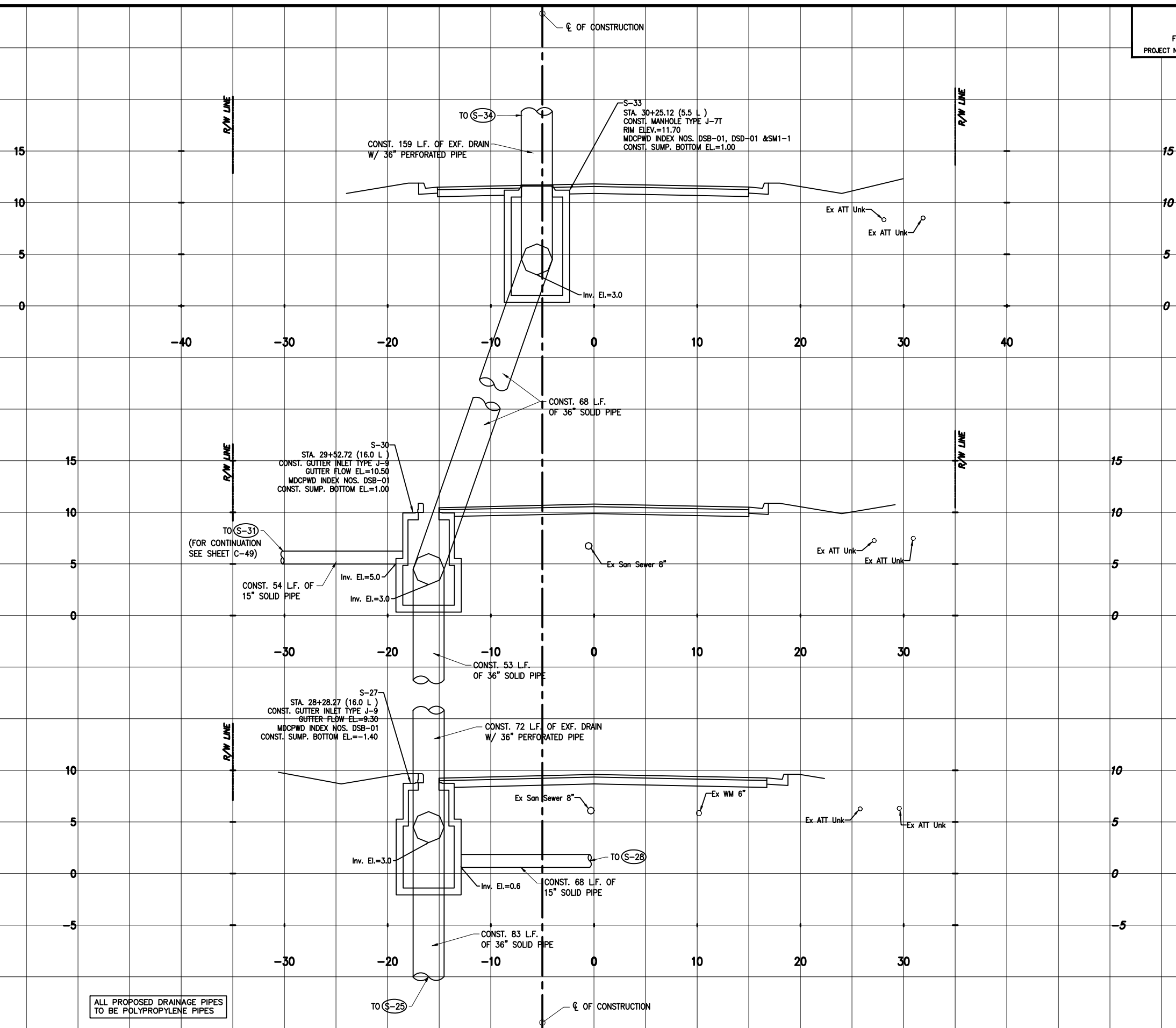
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE

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.)

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

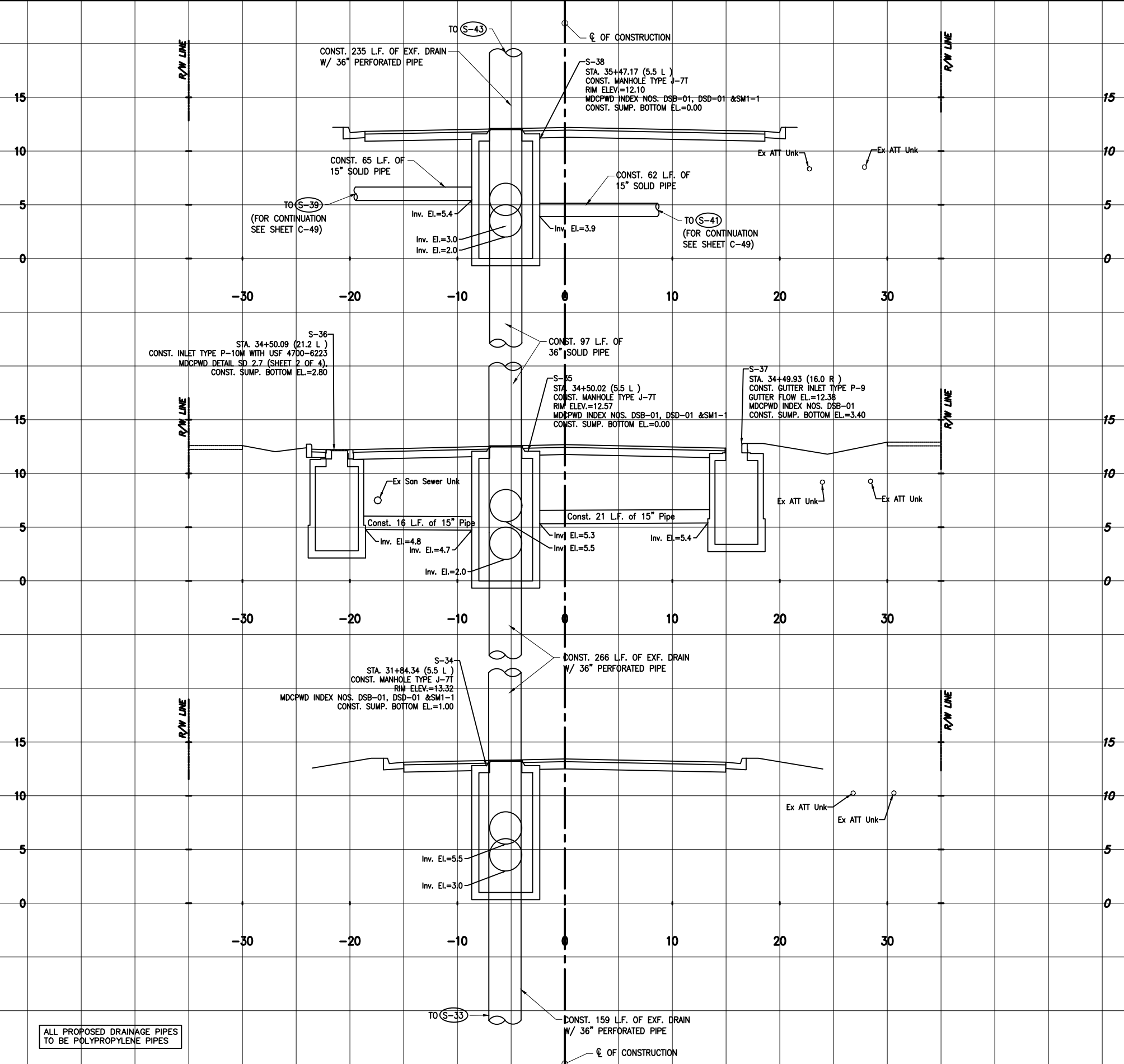


The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE

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

DRAINAGE STRUCTURES



(S-38)  
35+47.2

(S-35) (S-36) (S-37)  
34+50.0

(S-34)  
31+84.3

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

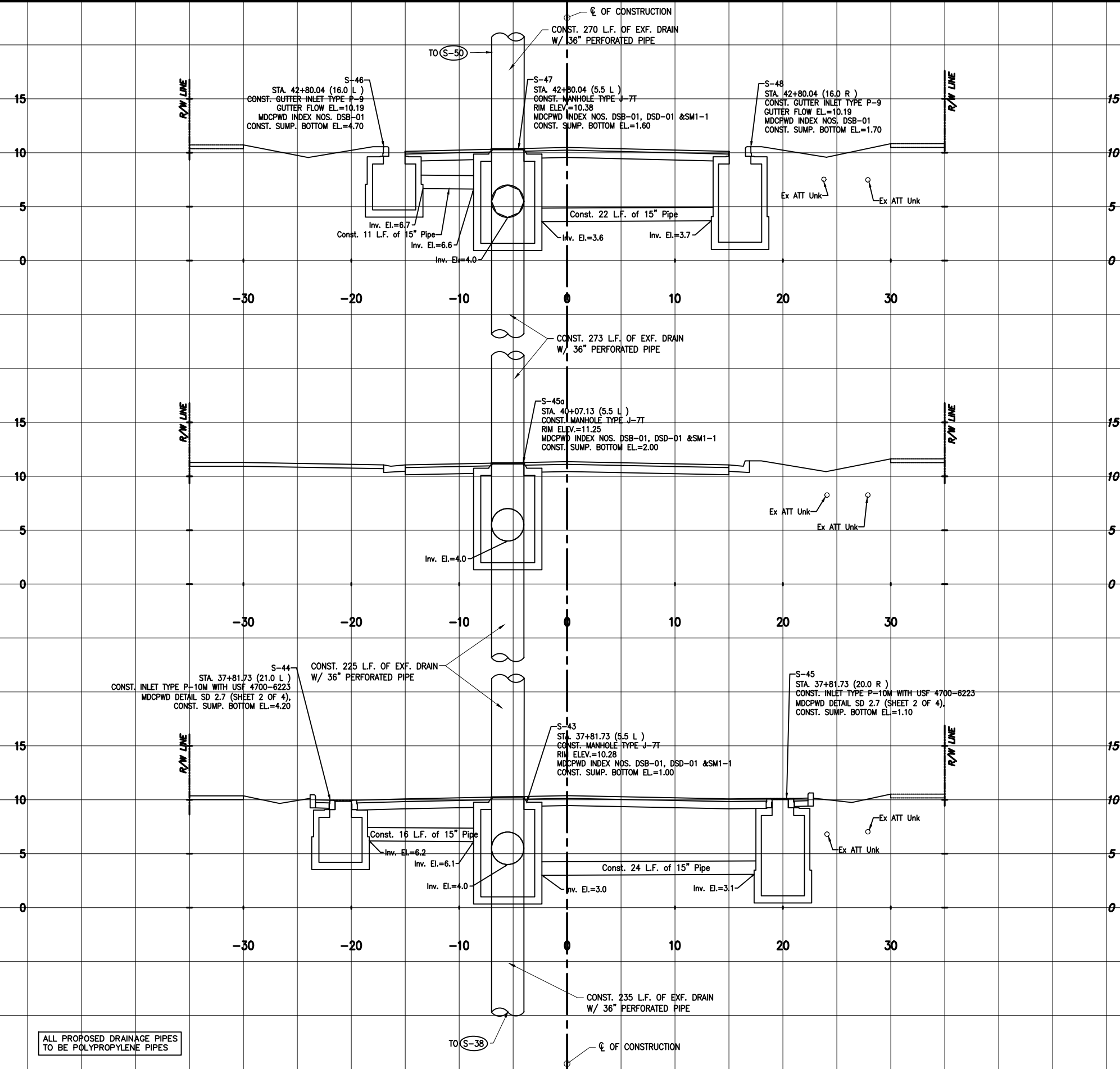


The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE

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

DRAINAGE STRUCTURES



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



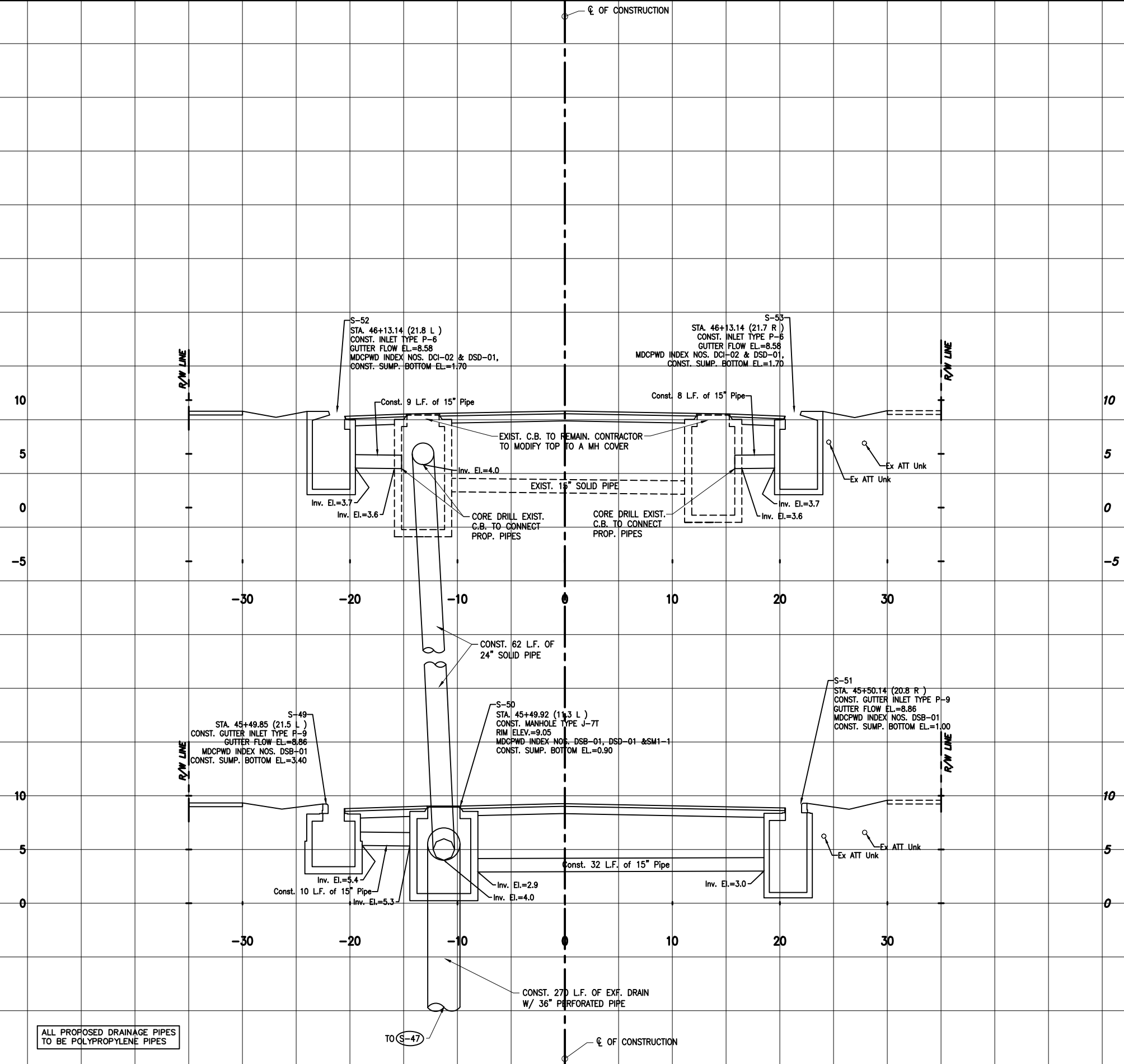
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

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



DRAINAGE STRUCTURES





S-52 S-53  
46+13.1

S-49 S-50 S-51  
45+49.9

ALL PROPOSED DRAINAGE PIPES  
TO BE POLYPROPYLENE PIPES

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

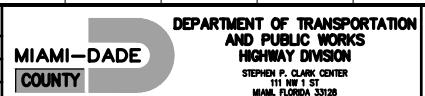
REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



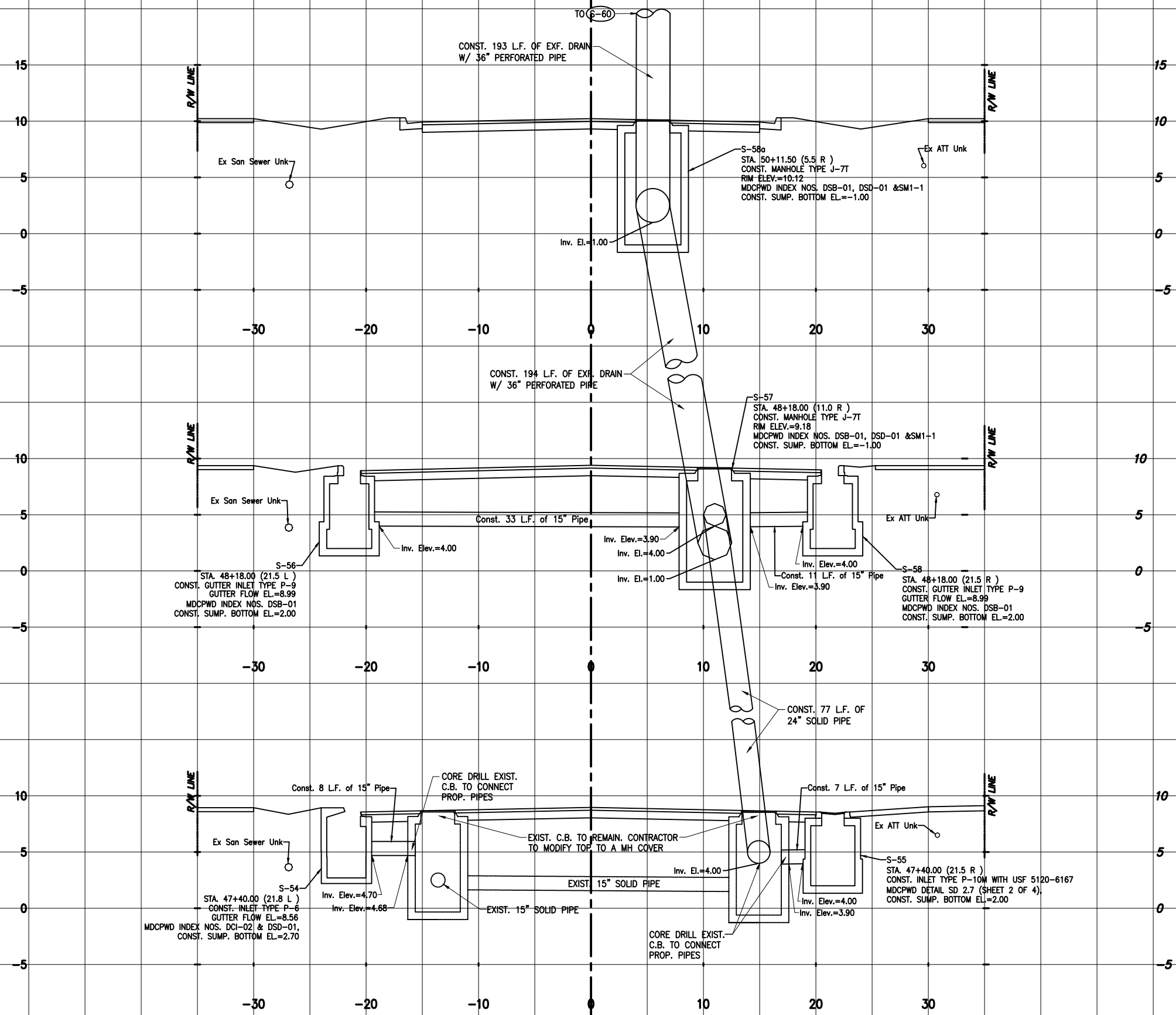
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

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



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

# DRAINAGE STRUCTURES



S-58A  
50+11.6

S-56 S-57 S-58  
48+18.0

S-54 S-55  
47+40.3

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

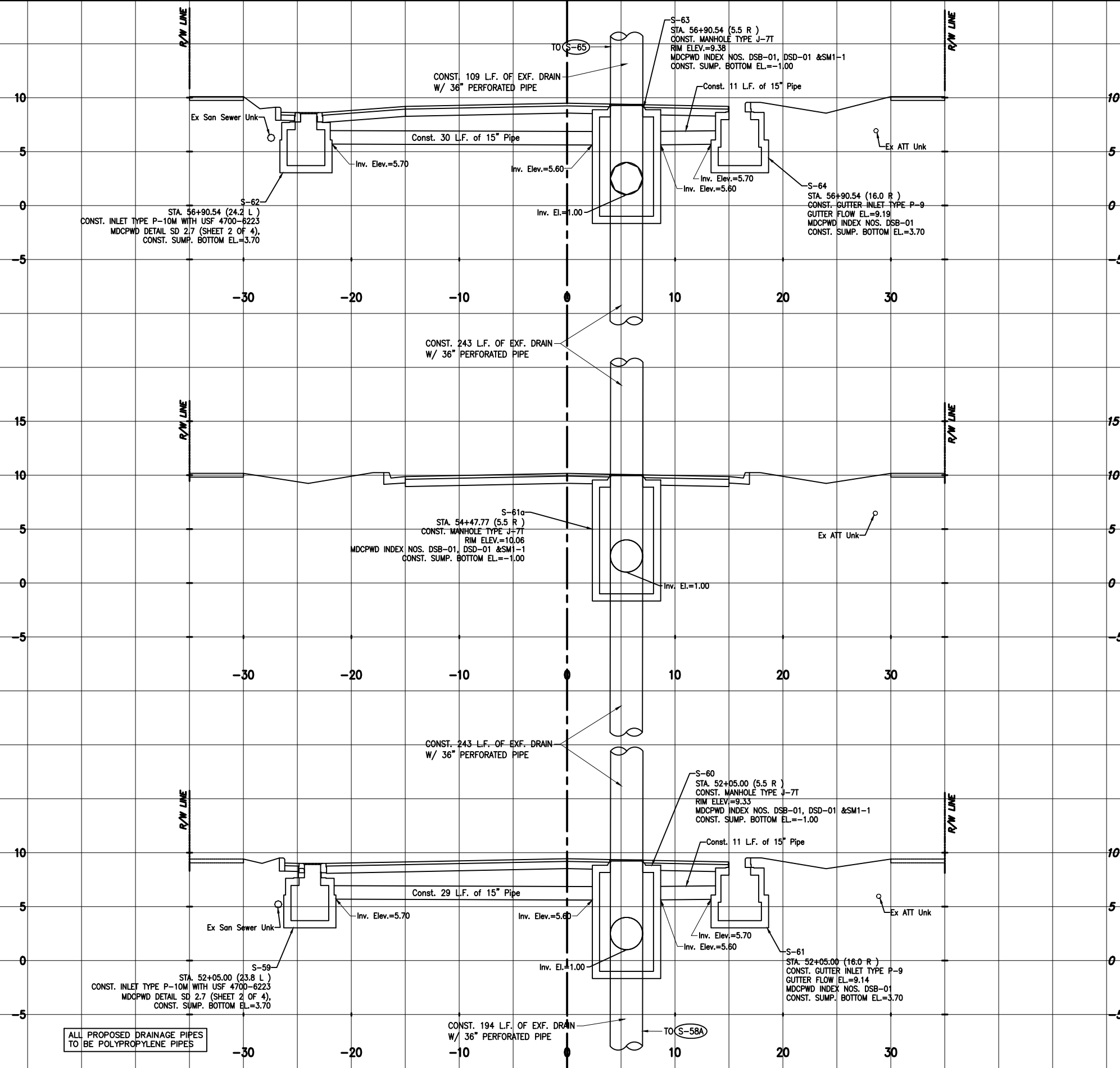


The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE

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

DRAINAGE STRUCTURES



S-62 S-63 S-64  
56+90.5

S-61A  
54+47.8

S-59 S-60 S-61  
52+05.0

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



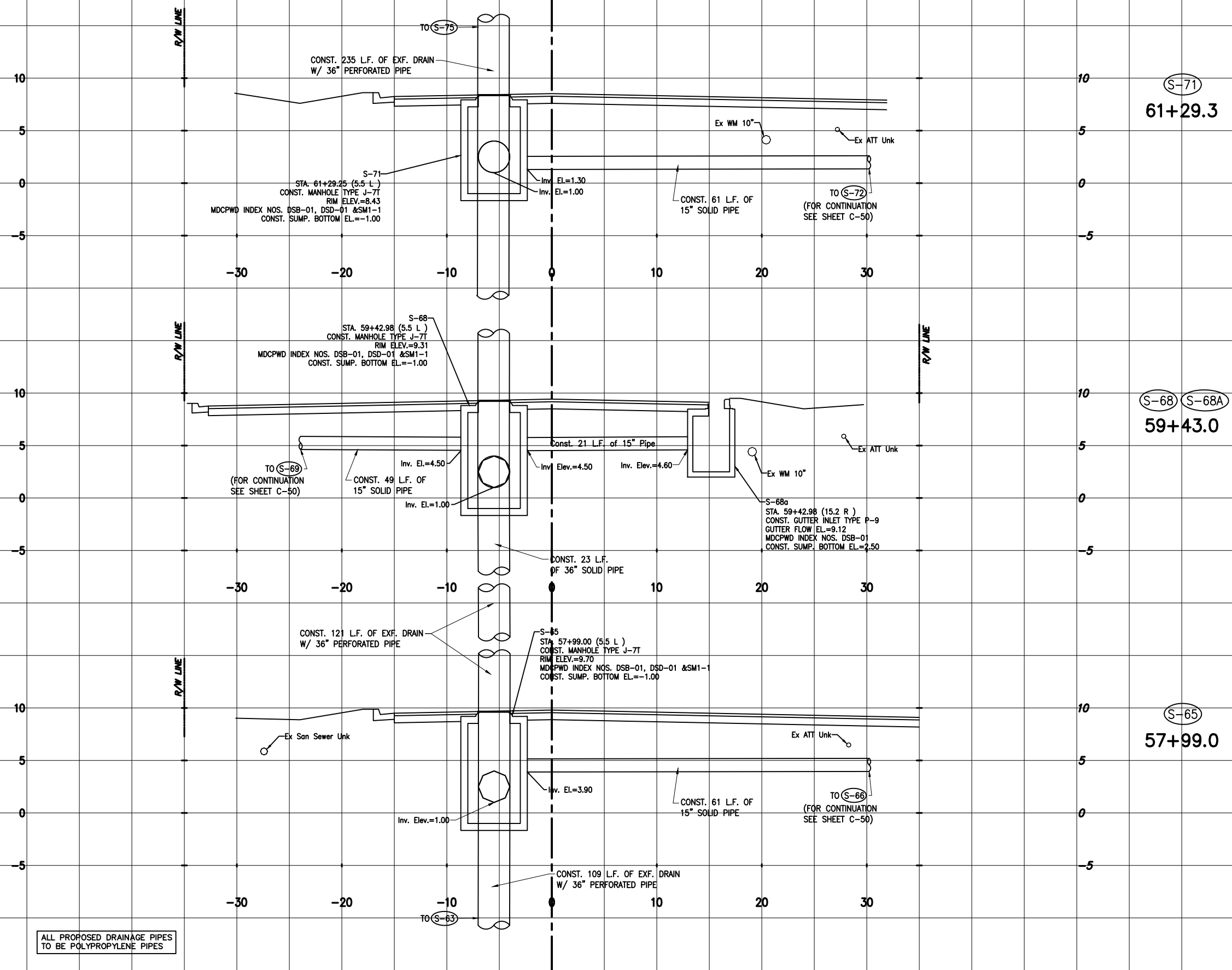
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE



DRAINAGE STRUCTURES





ALL PROPOSED DRAINAGE PIPES  
TO BE POLYPROPYLENE PIPES

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

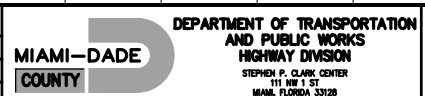
REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

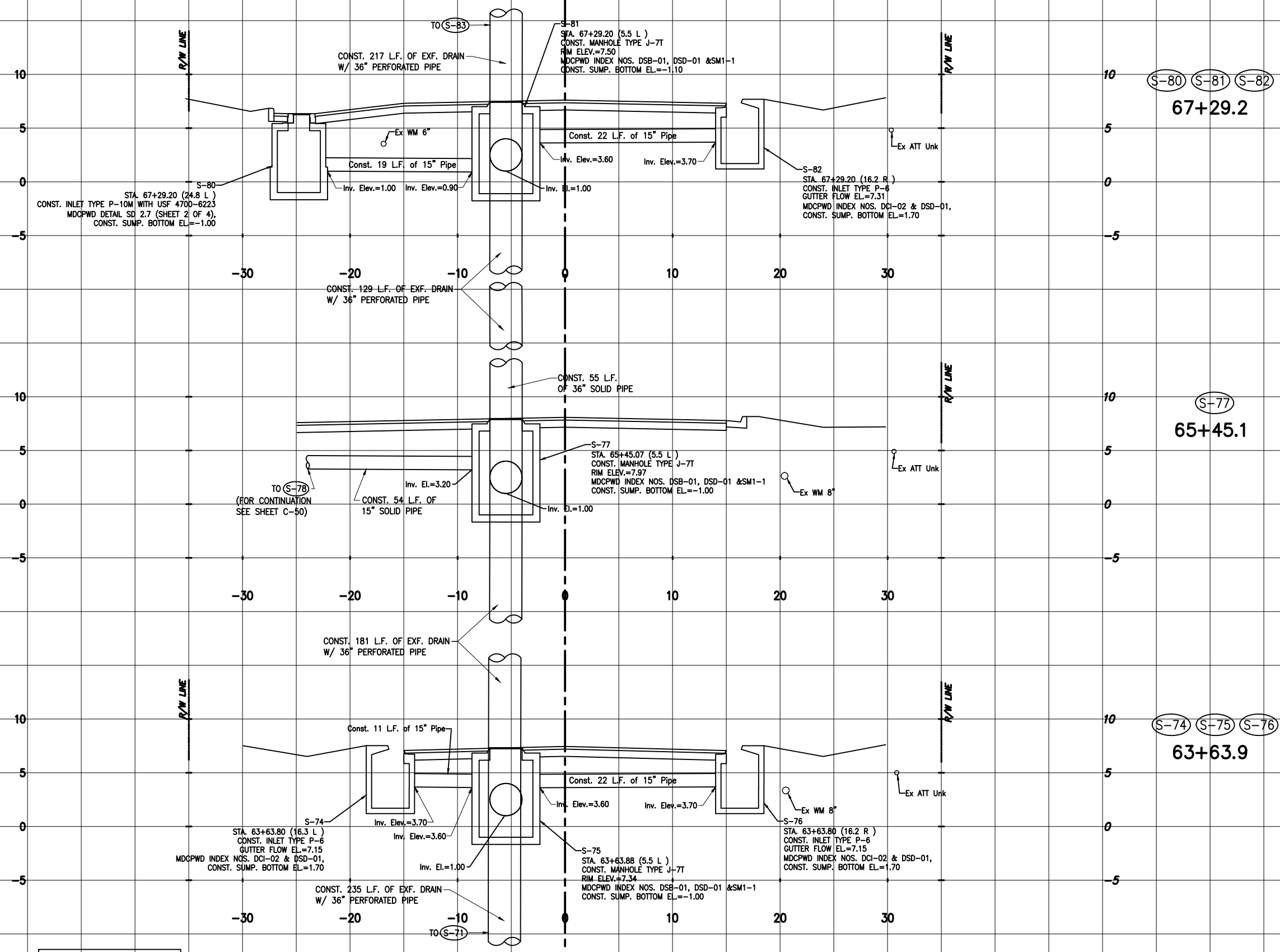


The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

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



DRAINAGE STRUCTURES



ALL PROPOSED DRAINAGE PIPES  
 TO BE POLYPROPYLENE PIPES

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

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

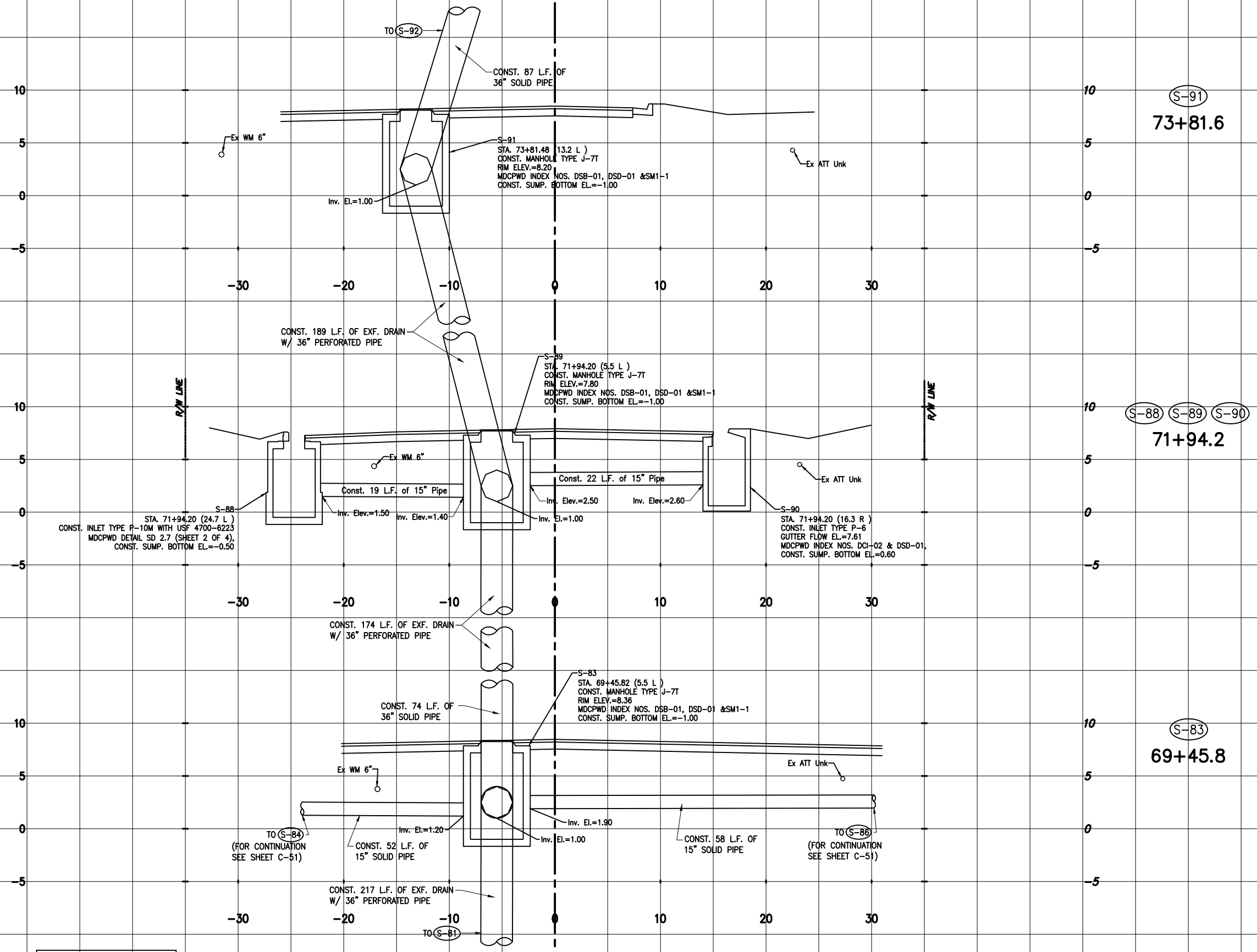


The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE



DRAINAGE STRUCTURES



ALL PROPOSED DRAINAGE PIPES  
TO BE POLYPROPYLENE PIPES

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

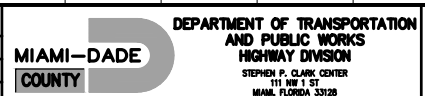
REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



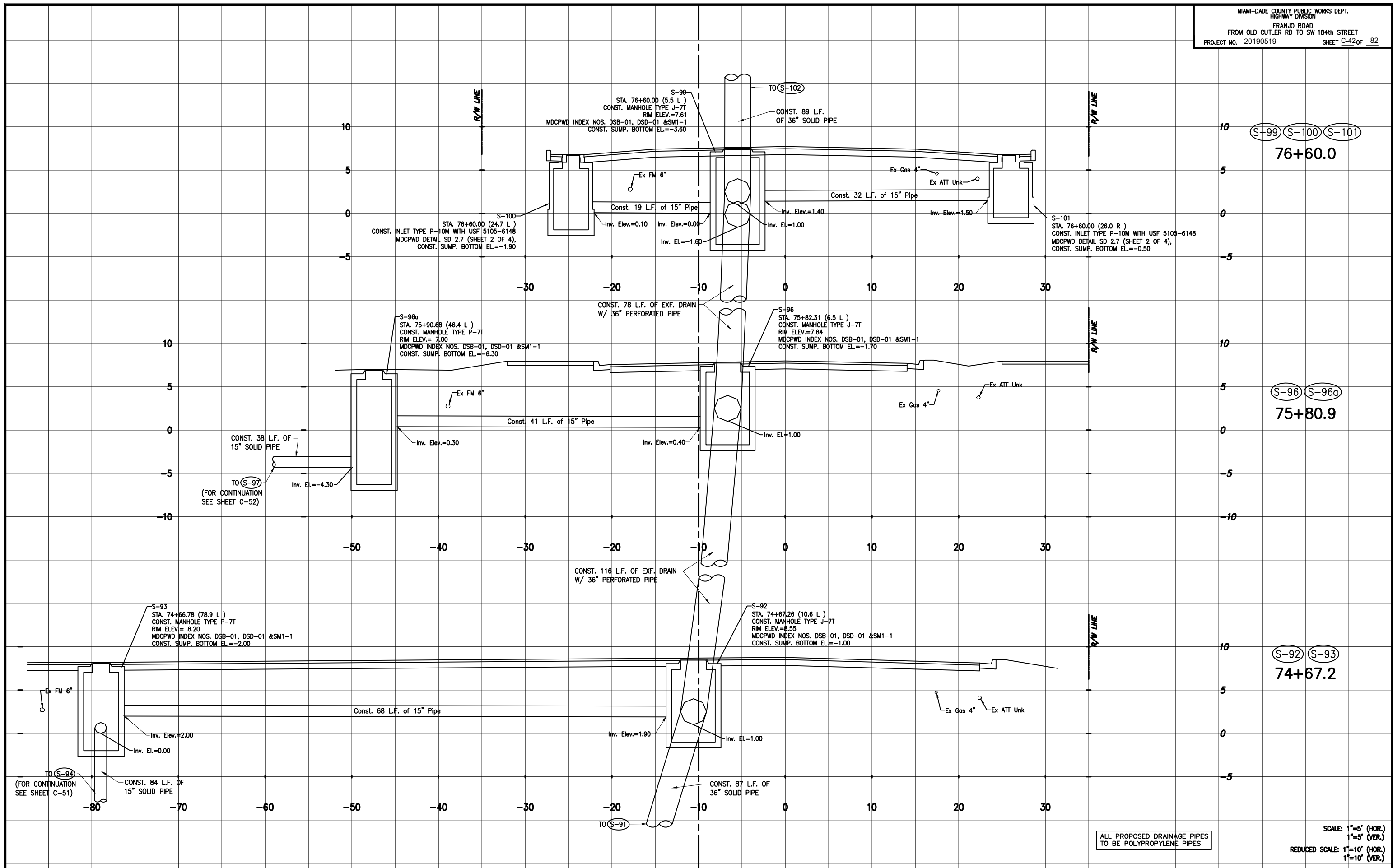
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE



DRAINAGE STRUCTURES

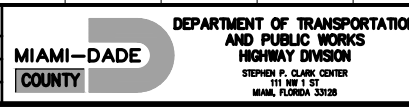




REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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

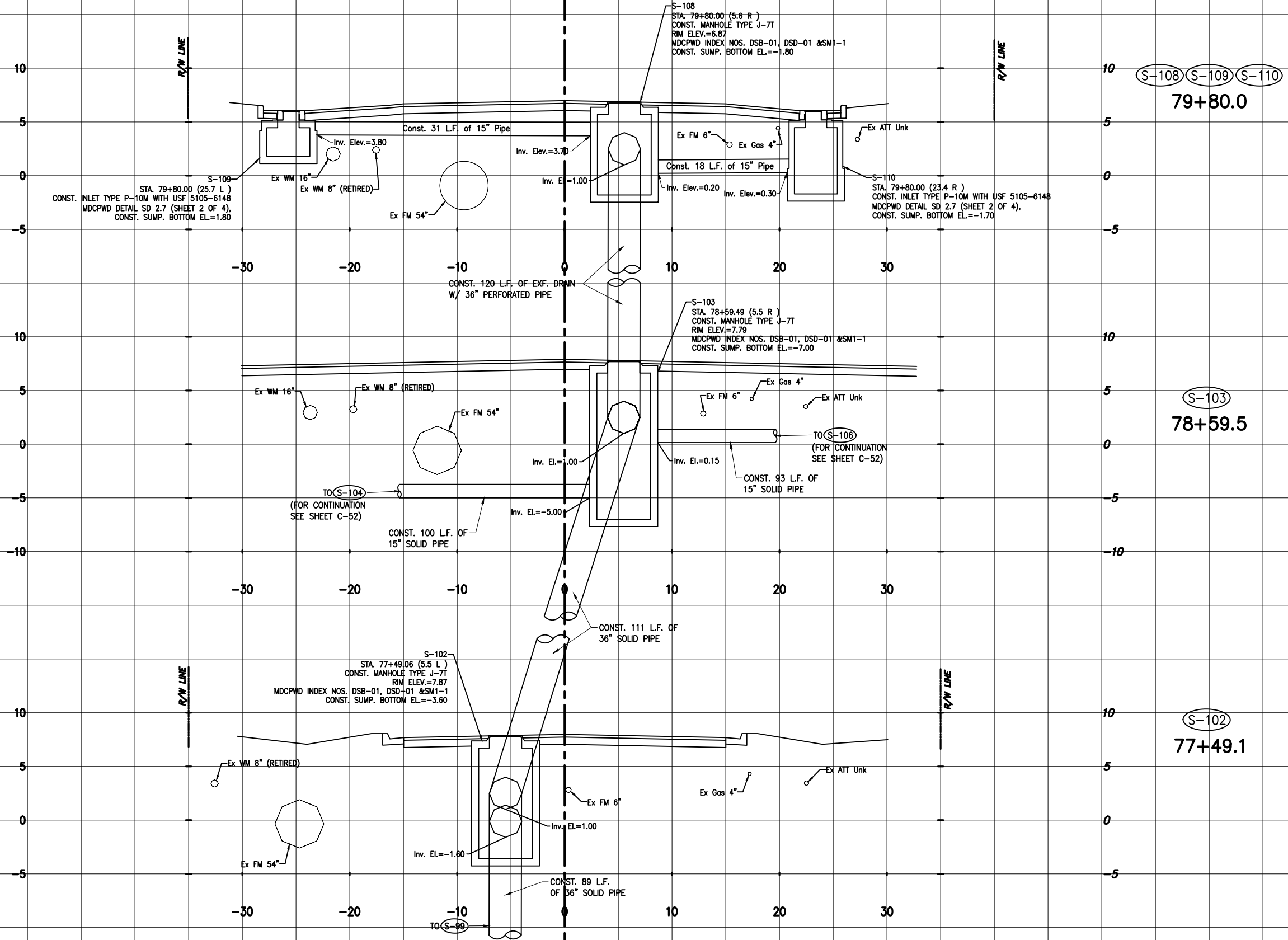


STEPHEN P. CLARK CENTER  
111 NW 1 ST  
MIAMI, FLORIDA 33128

**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.)



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

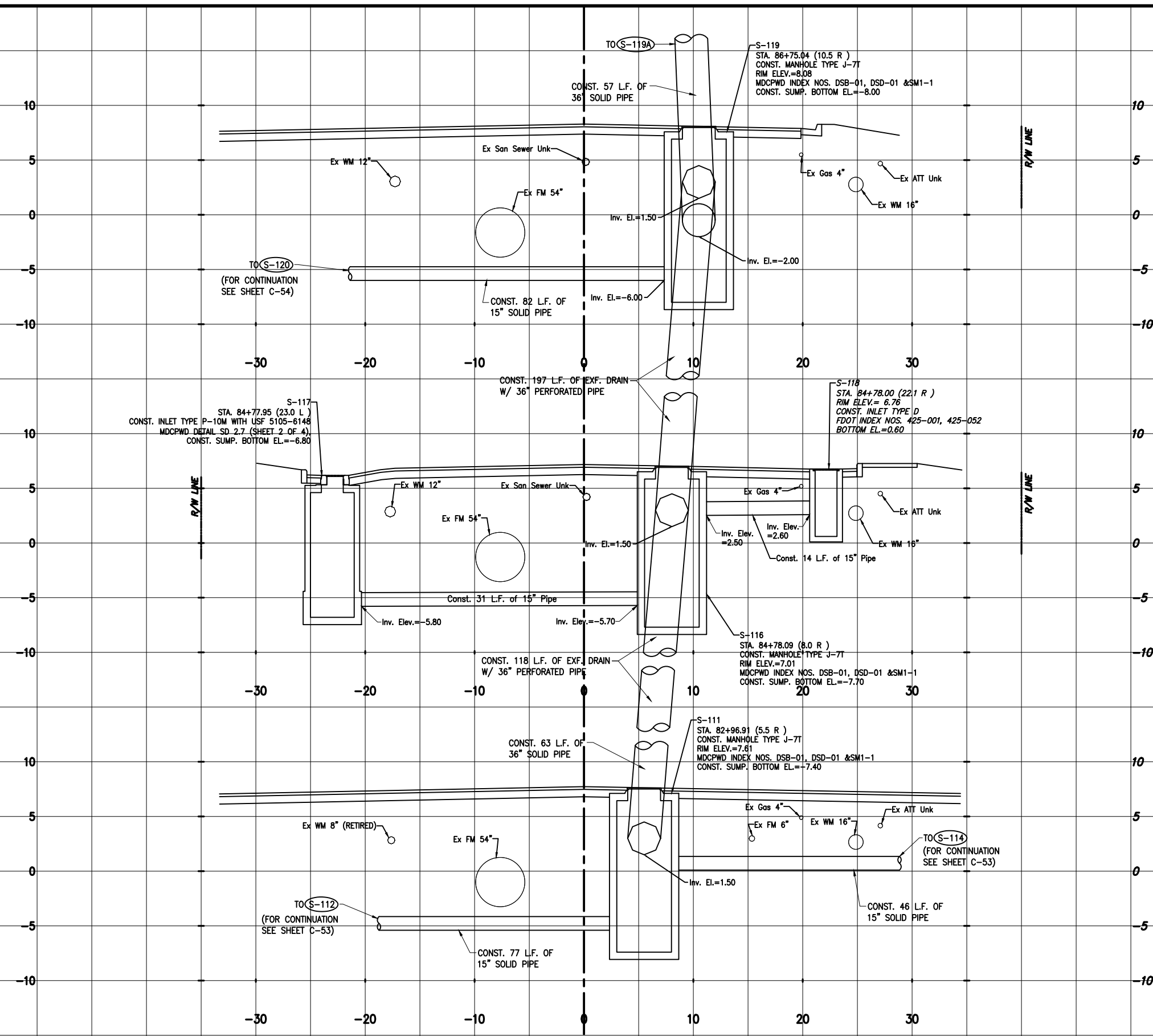


The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE

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

DRAINAGE STRUCTURES



S-119  
86+75.0

S-116 S-117 S-118  
84+78.0

S-111  
82+96.9

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



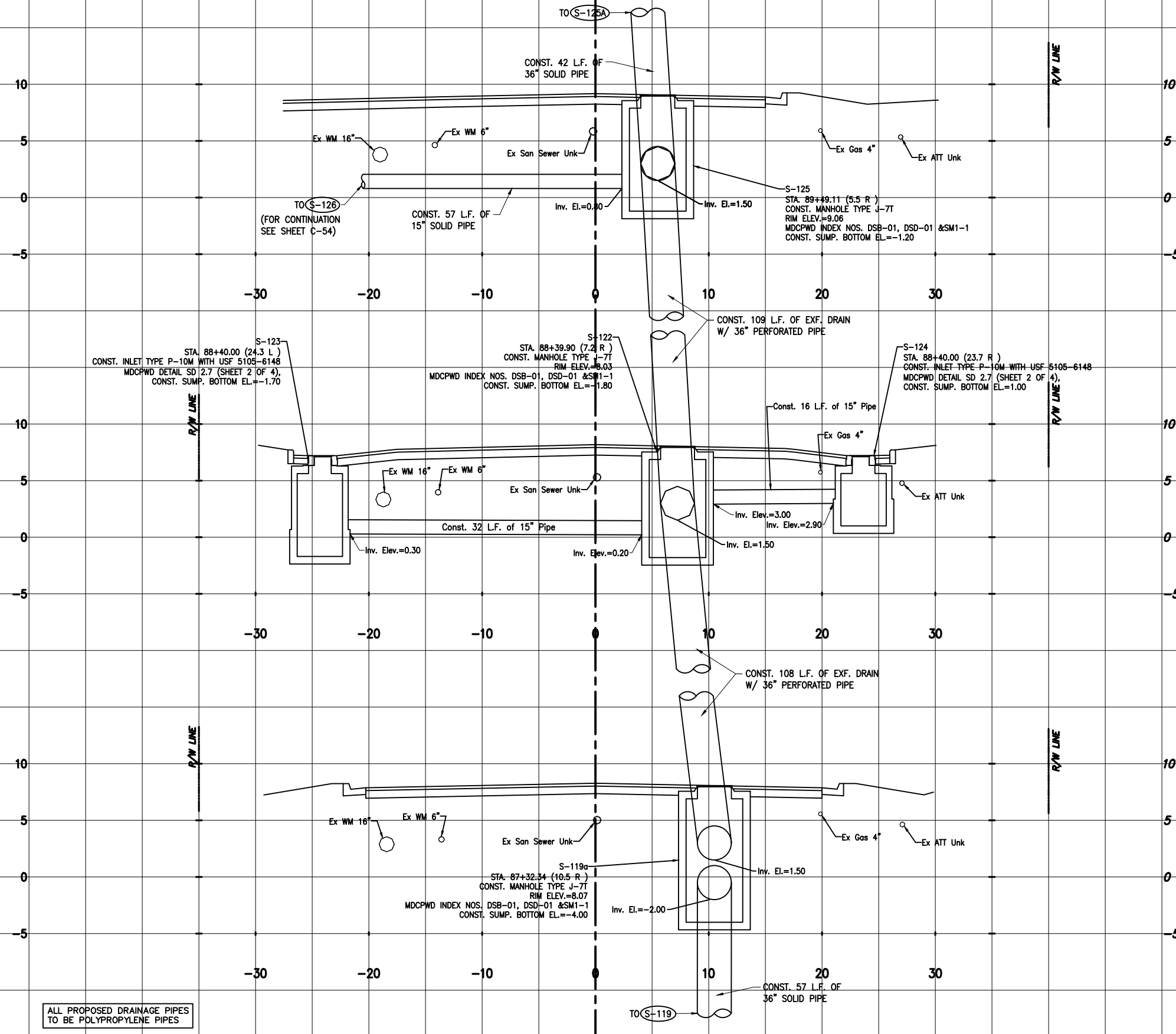
The Contractor shall verify and be responsible for all dimensions, DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

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



DRAINAGE STRUCTURES





ALL PROPOSED DRAINAGE PIPES  
TO BE POLYPROPYLENE PIPES

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

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

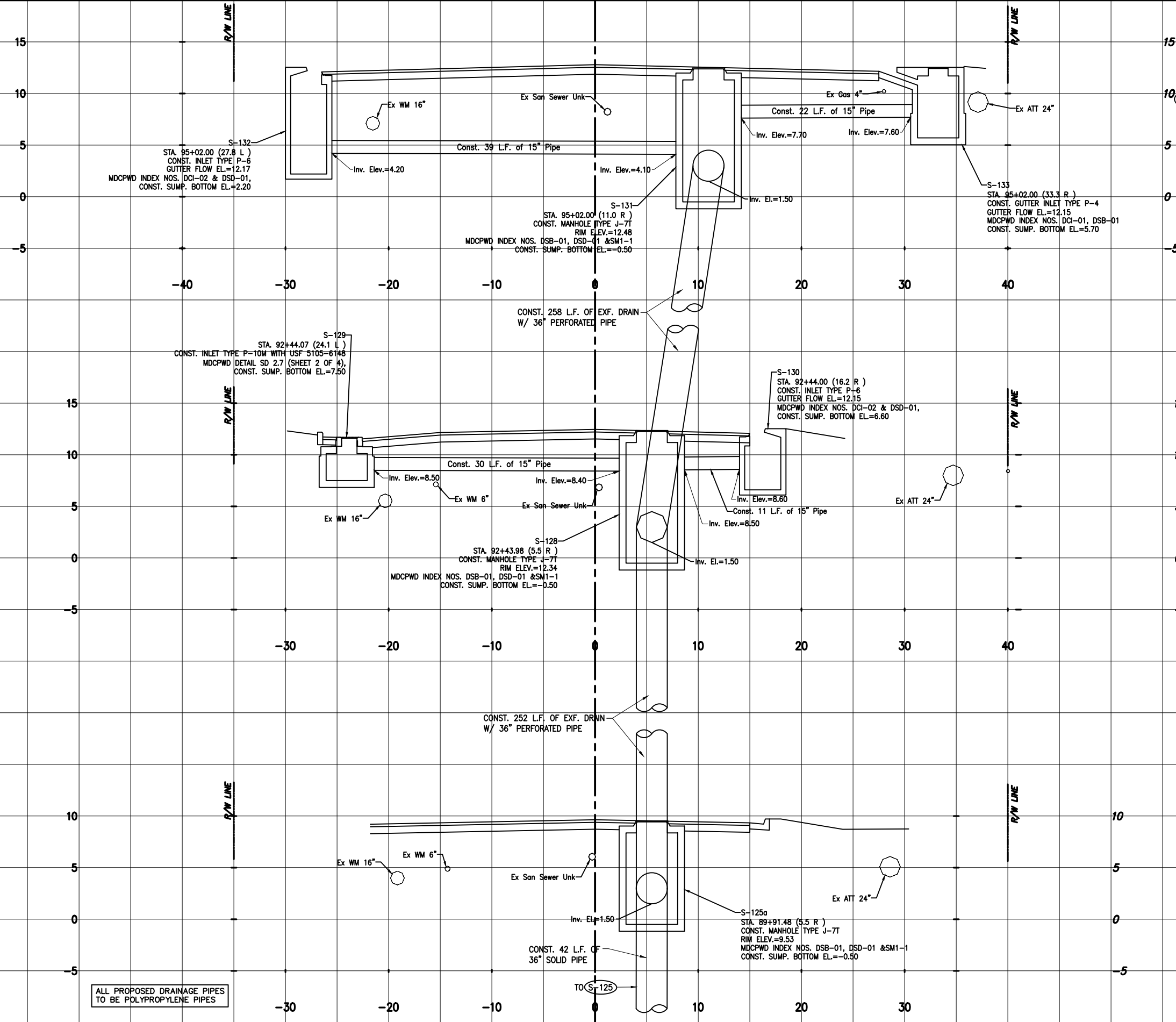


The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE

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

DRAINAGE STRUCTURES



S-131 S-132 S-133  
95+02.0

S-128 S-129 S-130  
92+44.0

S-125A  
89+91.5

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

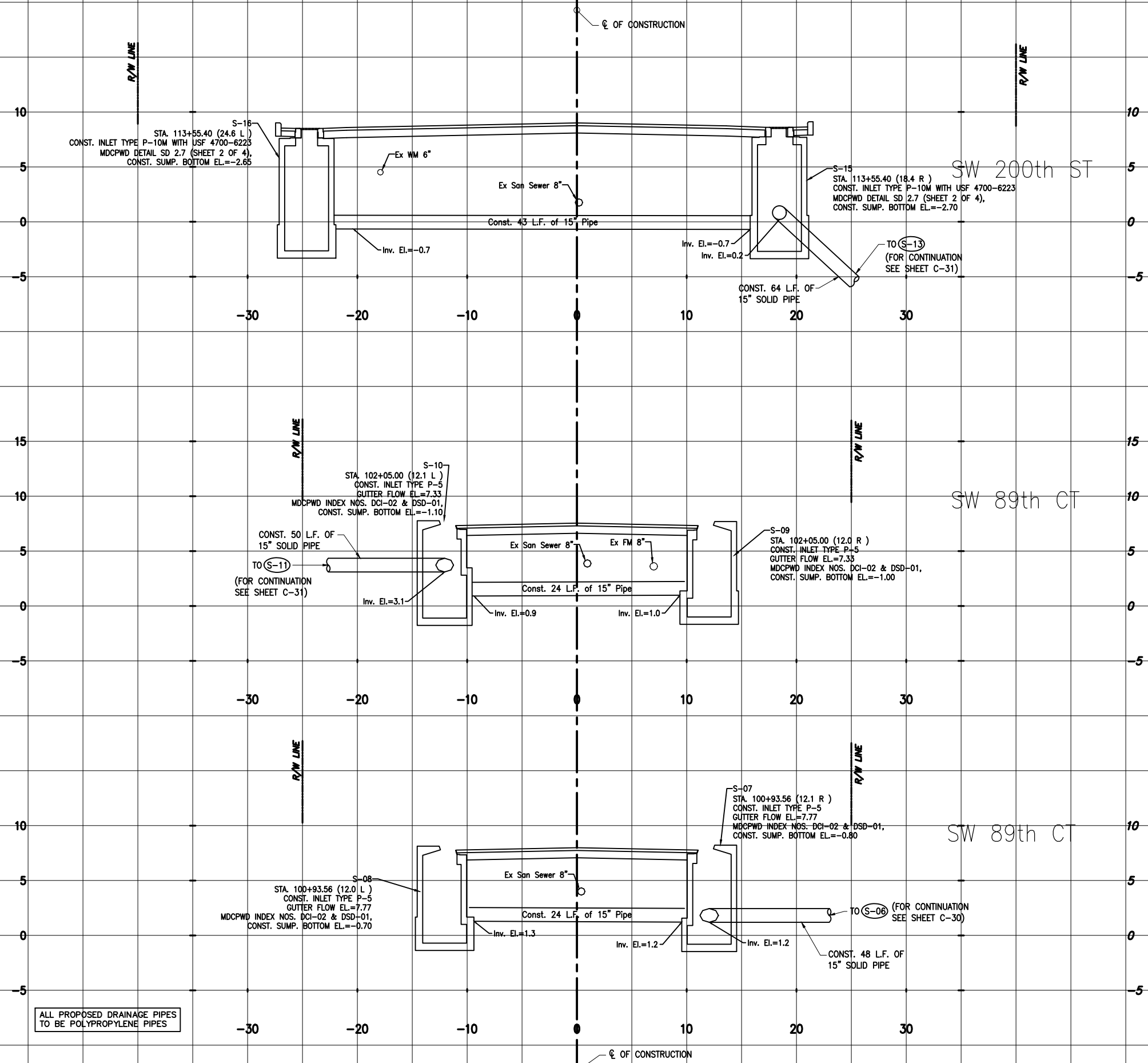


The Contractor shall verify and be responsible for all dimensions, DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE

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

DRAINAGE STRUCTURES



(S-15) (S-16)  
113+55.4

(S-09) (S-10)  
102+05.0

(S-07) (S-08)  
100+93.6

ALL PROPOSED DRAINAGE PIPES  
TO BE POLYPROPYLENE PIPES

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

REVISIONS

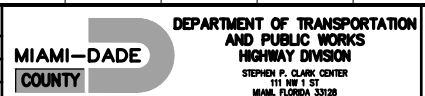
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

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

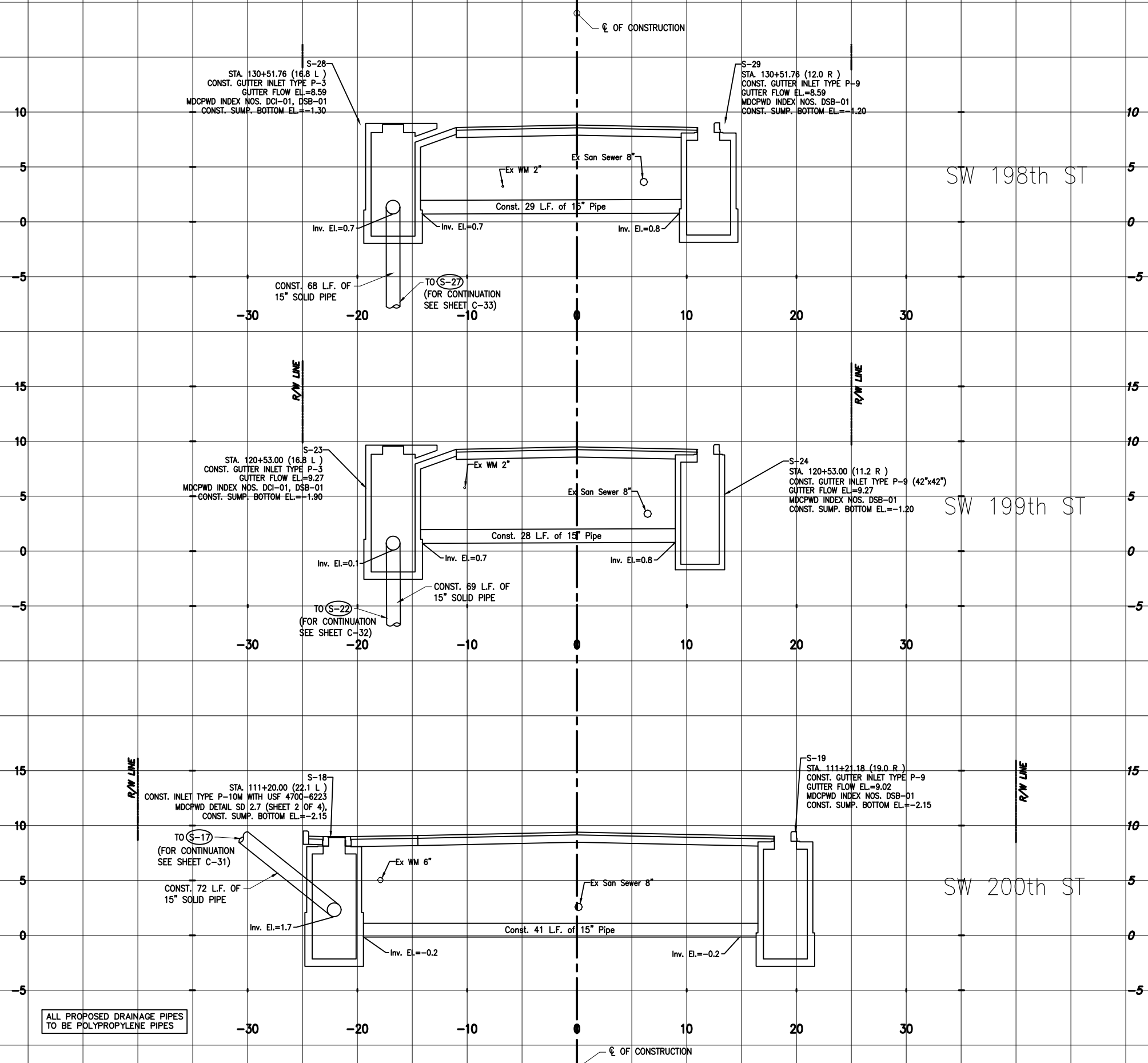
SUPERVISED BY:



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

# DRAINAGE STRUCTURES





S-28 S-29  
130+51.8

S-23 S-24  
120+53.0

S-18 S-19  
111+20.6

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

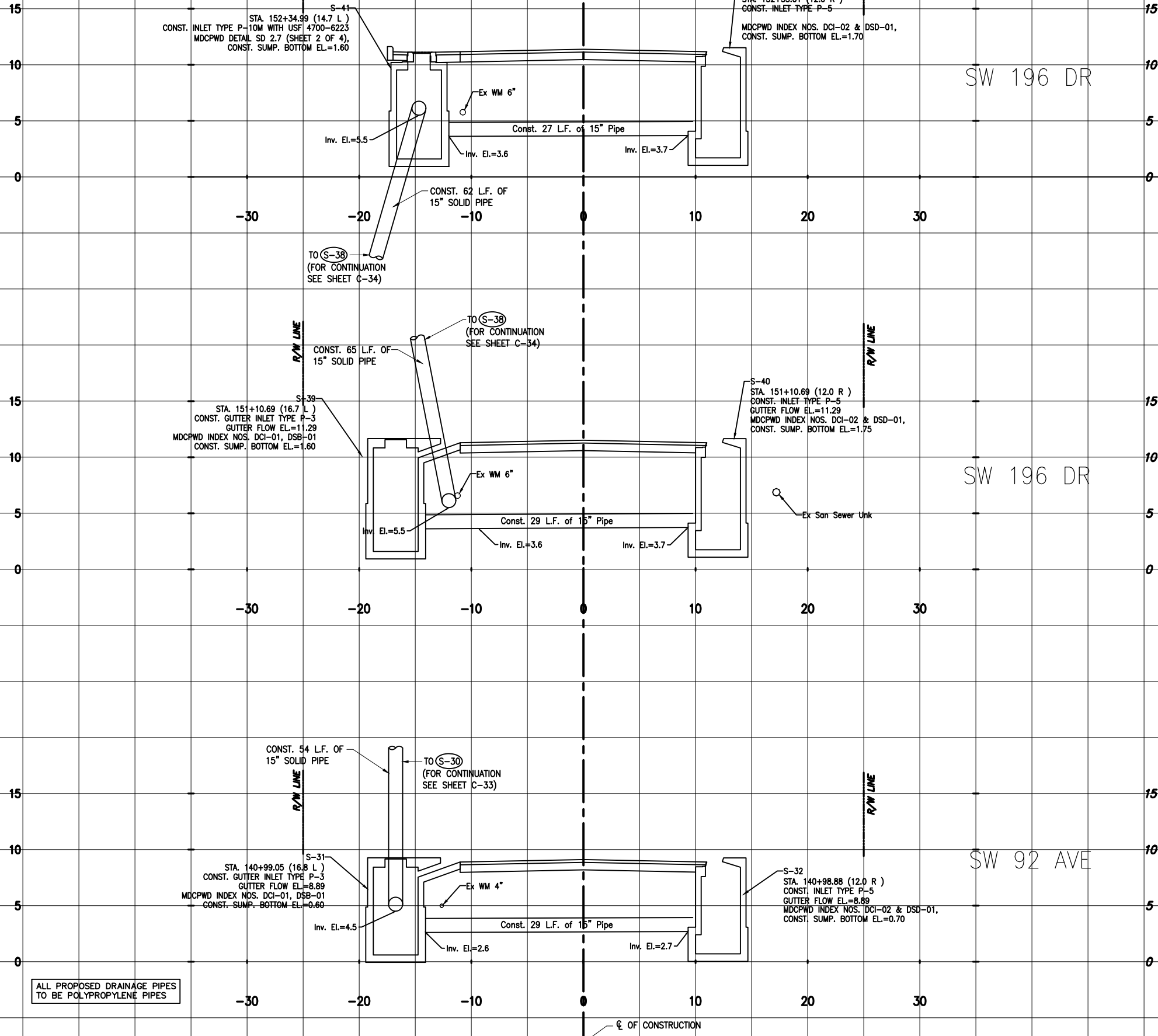


The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE

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

DRAINAGE STRUCTURES



(S-41) (S-42)  
152+35.0

(S-39) (S-40)  
151+10.7

(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



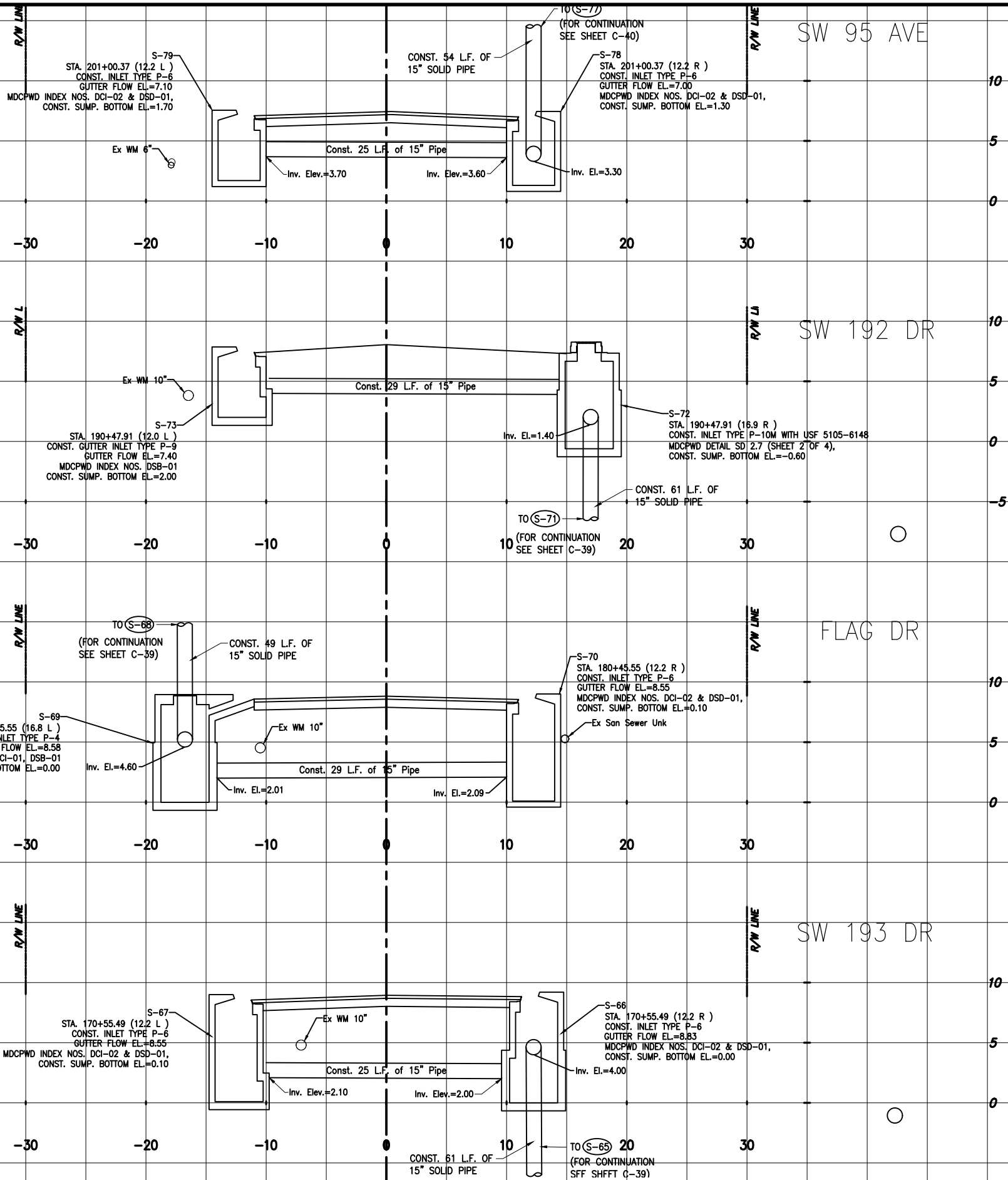
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE



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.)

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



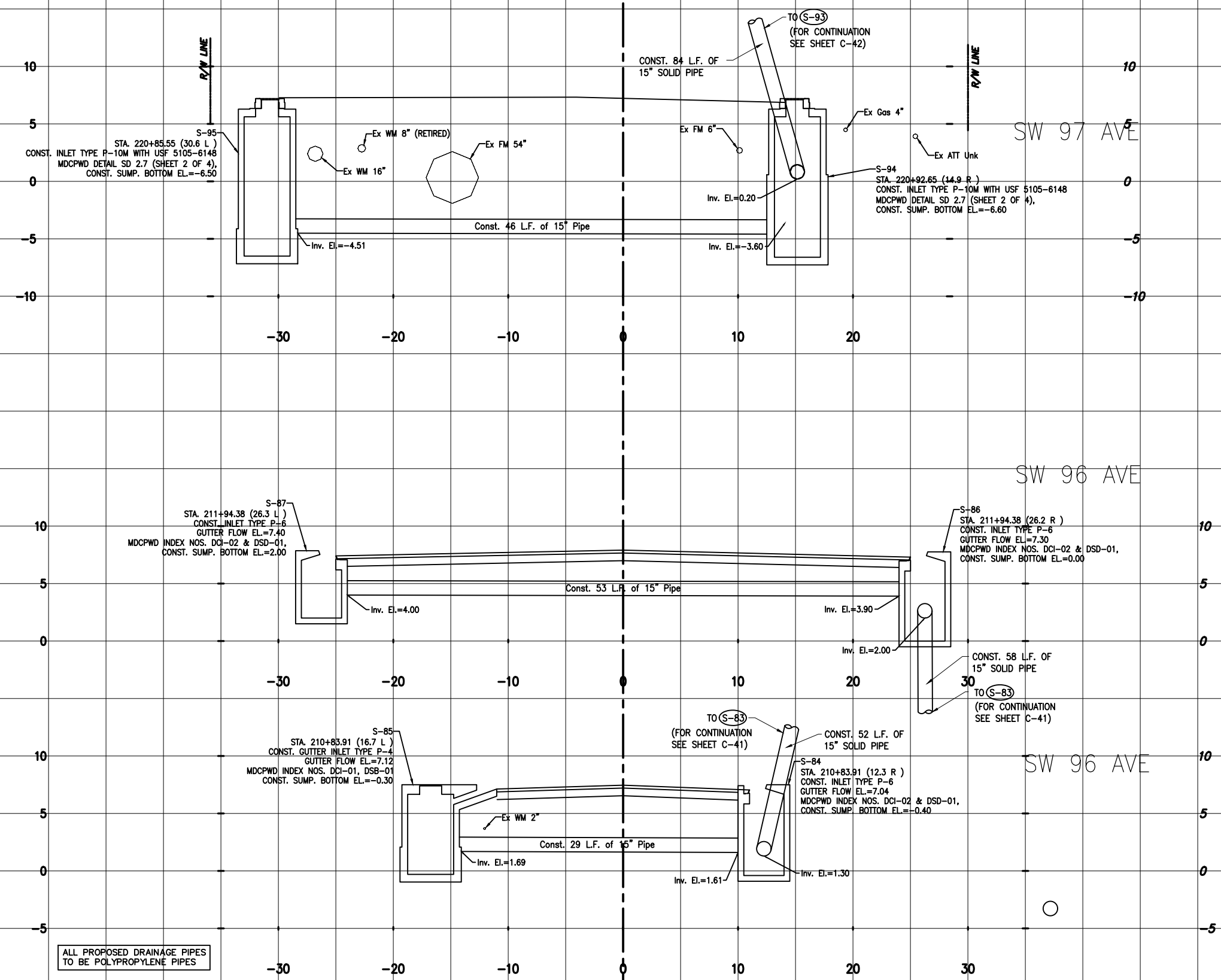
The Contractor shall verify and be responsible for all dimensions, DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

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



DRAINAGE STRUCTURES





ALL PROPOSED DRAINAGE PIPES  
TO BE POLYPROPYLENE PIPES

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

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

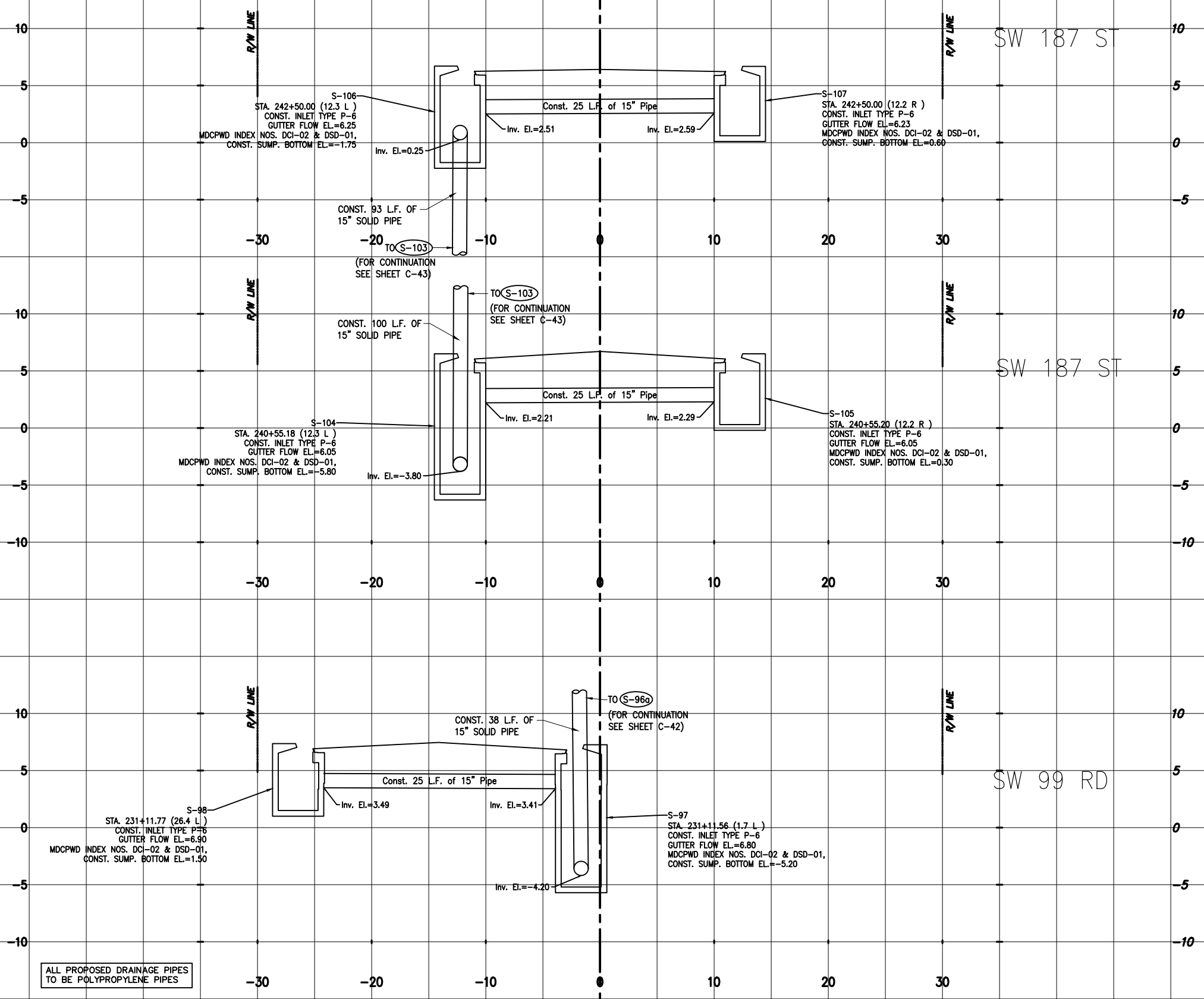


The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE

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.)

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

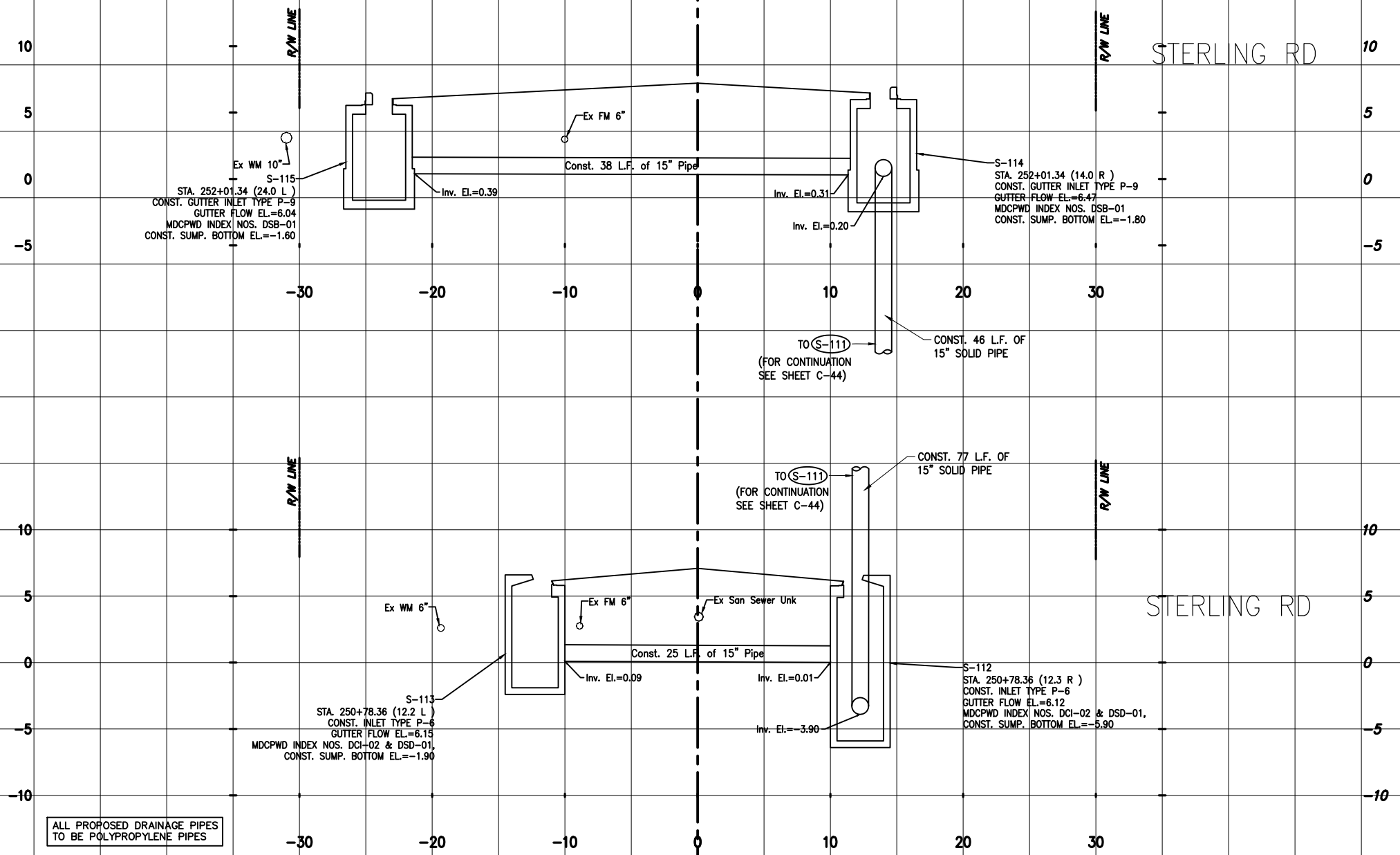


The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE

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.)

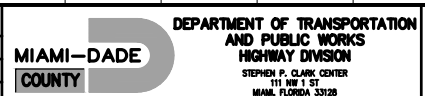
REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

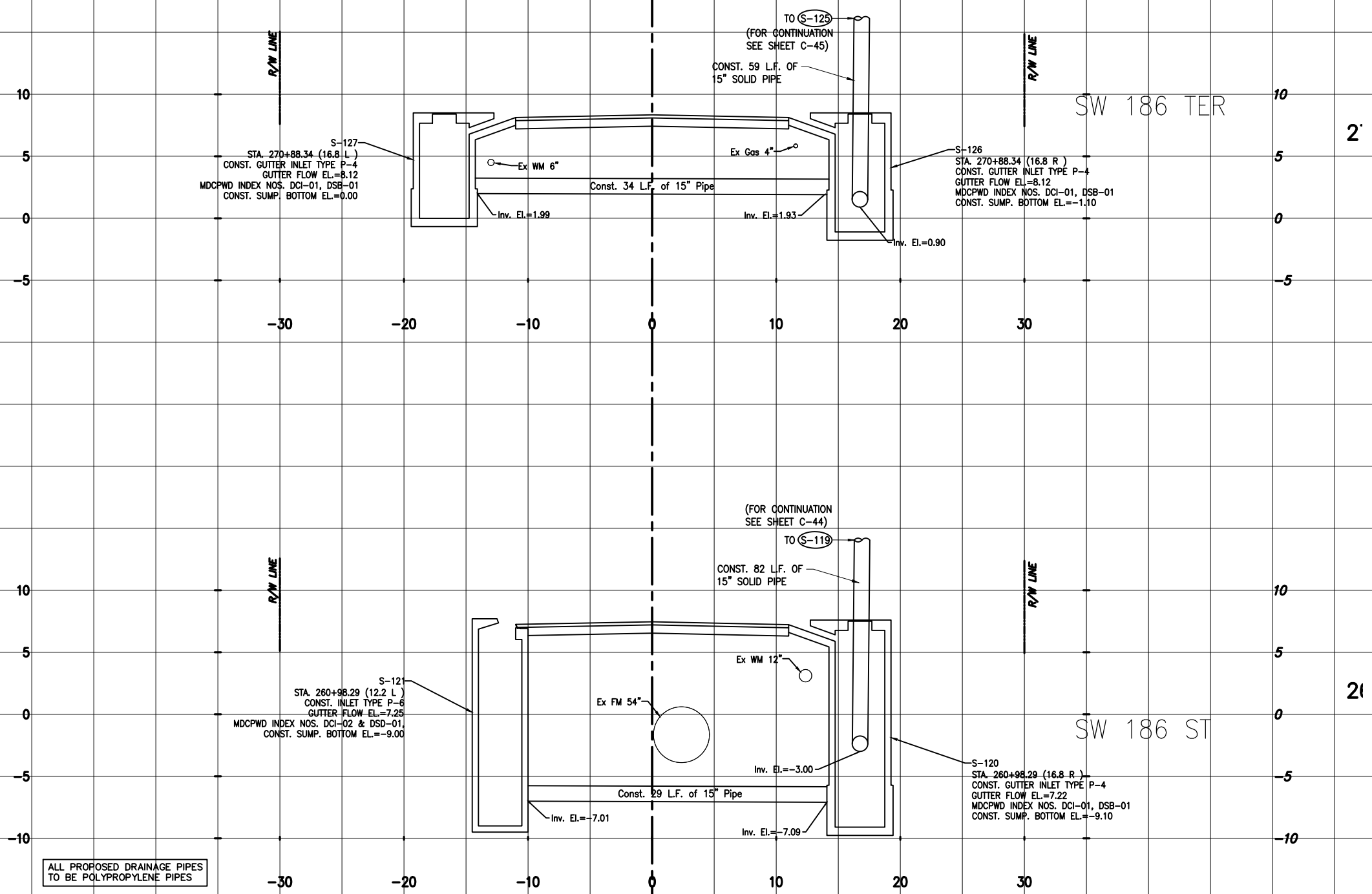


The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

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



DRAINAGE STRUCTURES



ALL PROPOSED DRAINAGE PIPES  
 TO BE POLYPROPYLENE PIPES

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

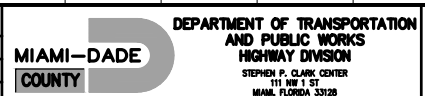
REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

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

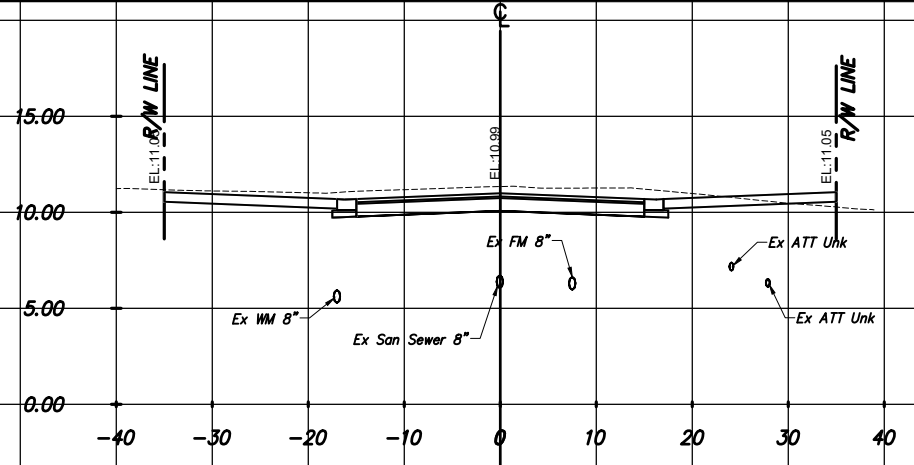


STEPHEN P. CLARK, CENTER  
 111 NW 1 ST  
 MIAMI, FLORIDA 33128

DRAINAGE STRUCTURES

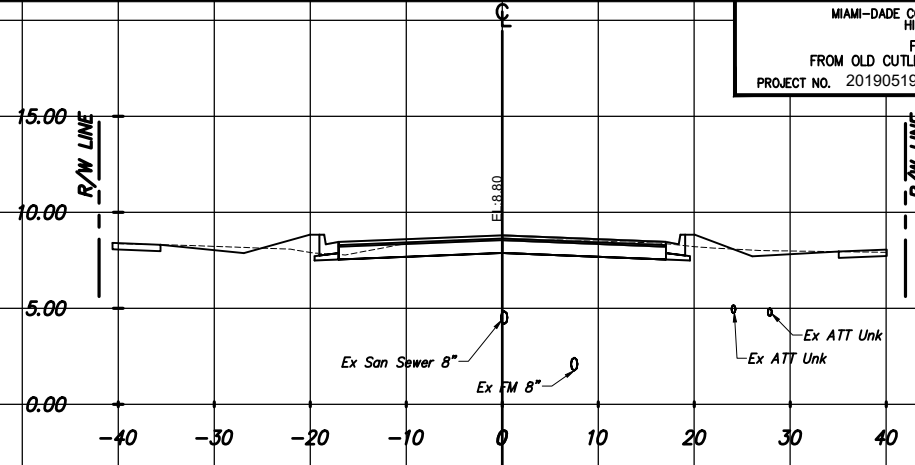


EXC.		FILL	
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
64.9	218.1	0.1	3.5



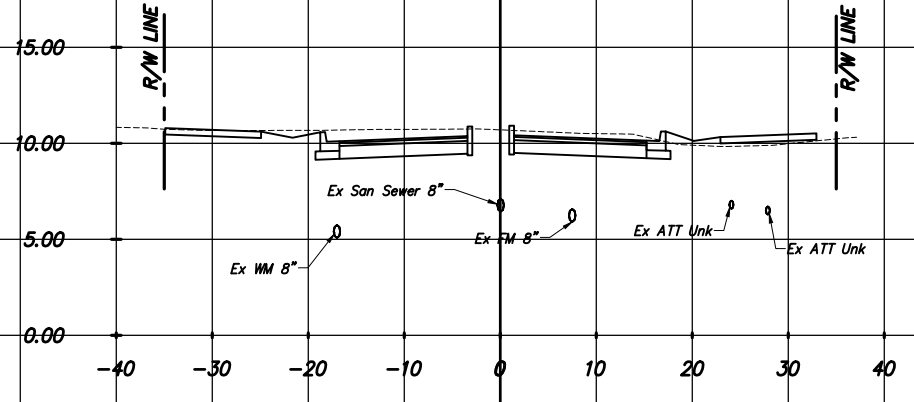
14+00.0

EXC.		FILL	
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
23.7	72.8	33.7	110.2



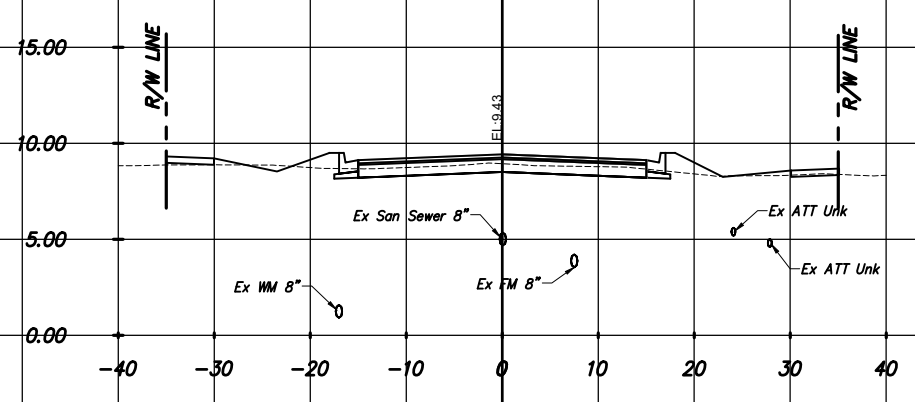
18+00.0

EXC.		FILL	
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
52.9	185.0	1.8	6.4



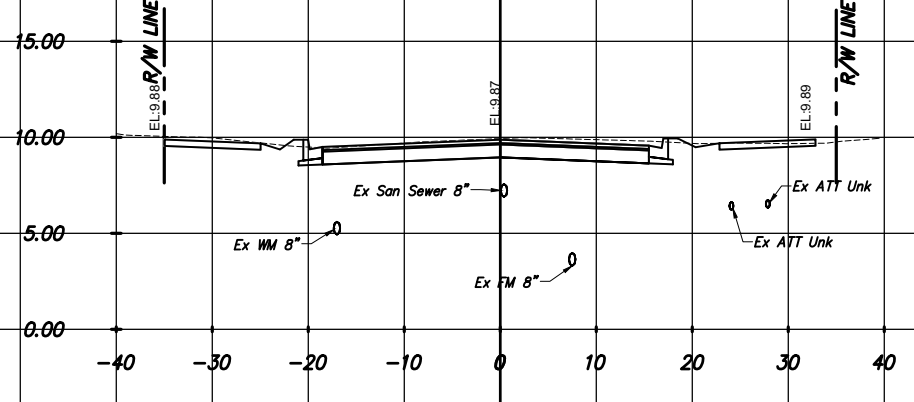
13+00.0

EXC.		FILL	
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
15.7	105.1	25.8	58.3



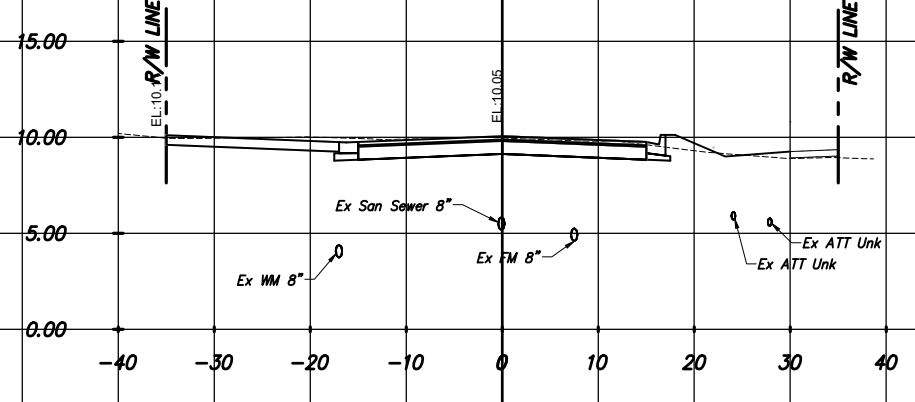
17+00.0

EXC.		FILL	
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
47.0	179.5	1.6	5.1



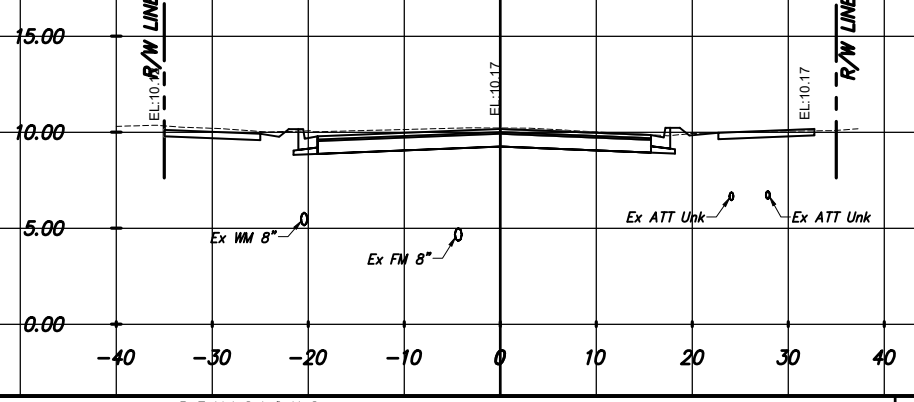
12+00.0

EXC.		FILL	
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
41.1	145.3	5.6	16.6



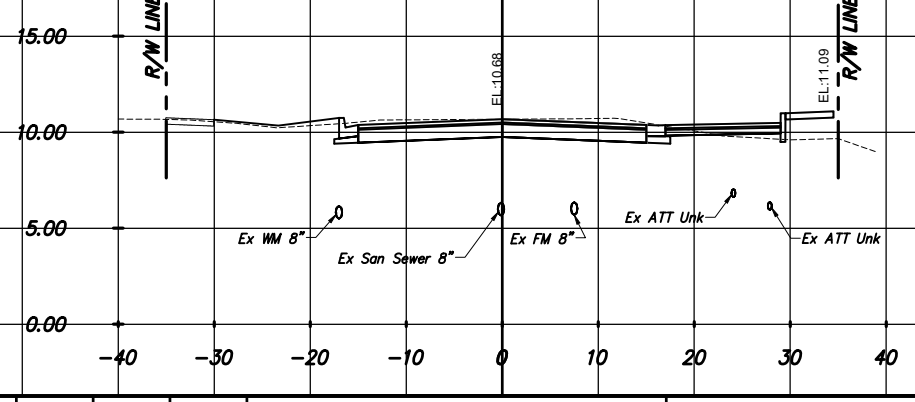
16+00.0

0.0
-----



11+00.0

37.4	189.3	3.3	6.3
------	-------	-----	-----



15+00.0

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

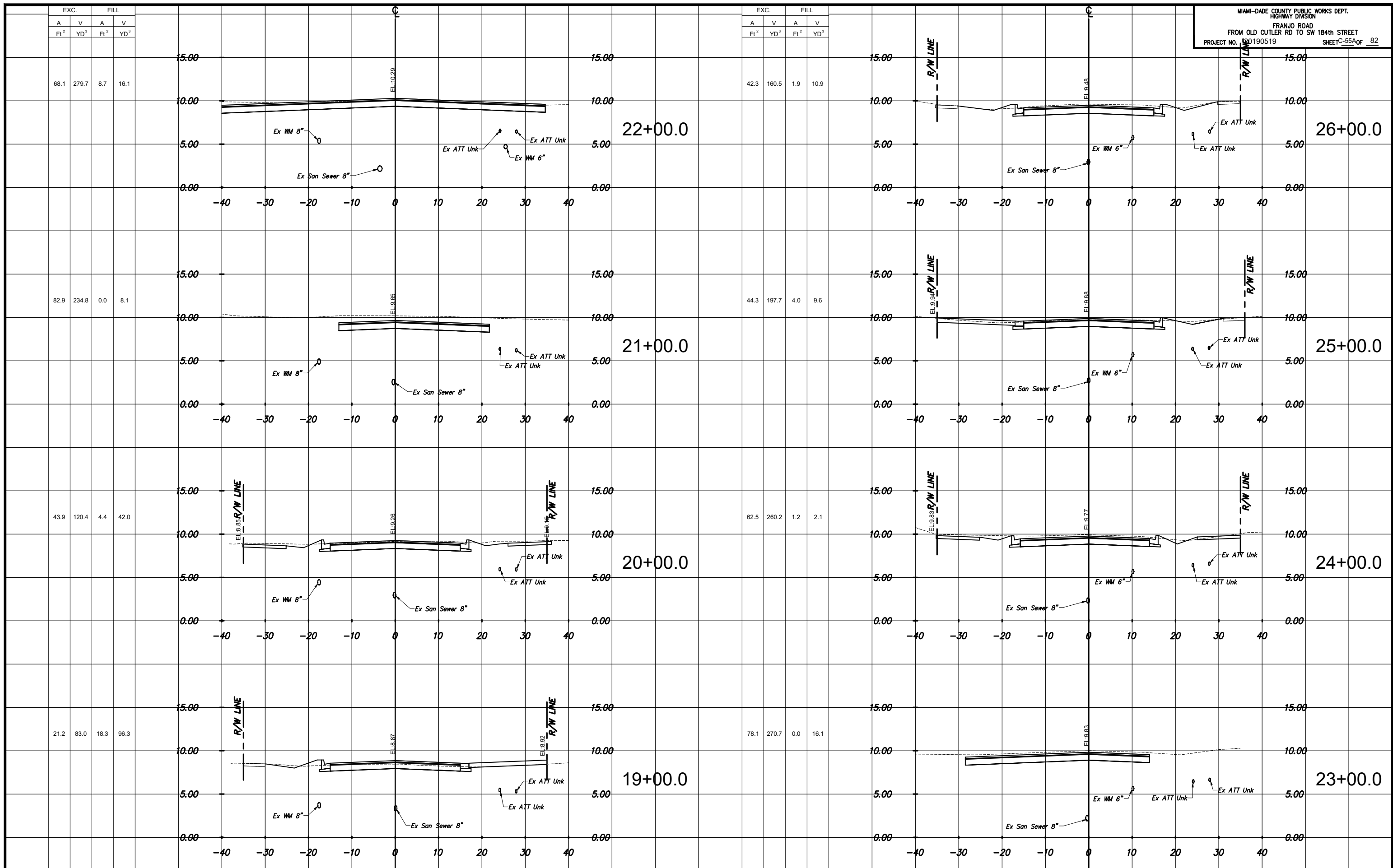


The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

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



CROSS SECTIONS



REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

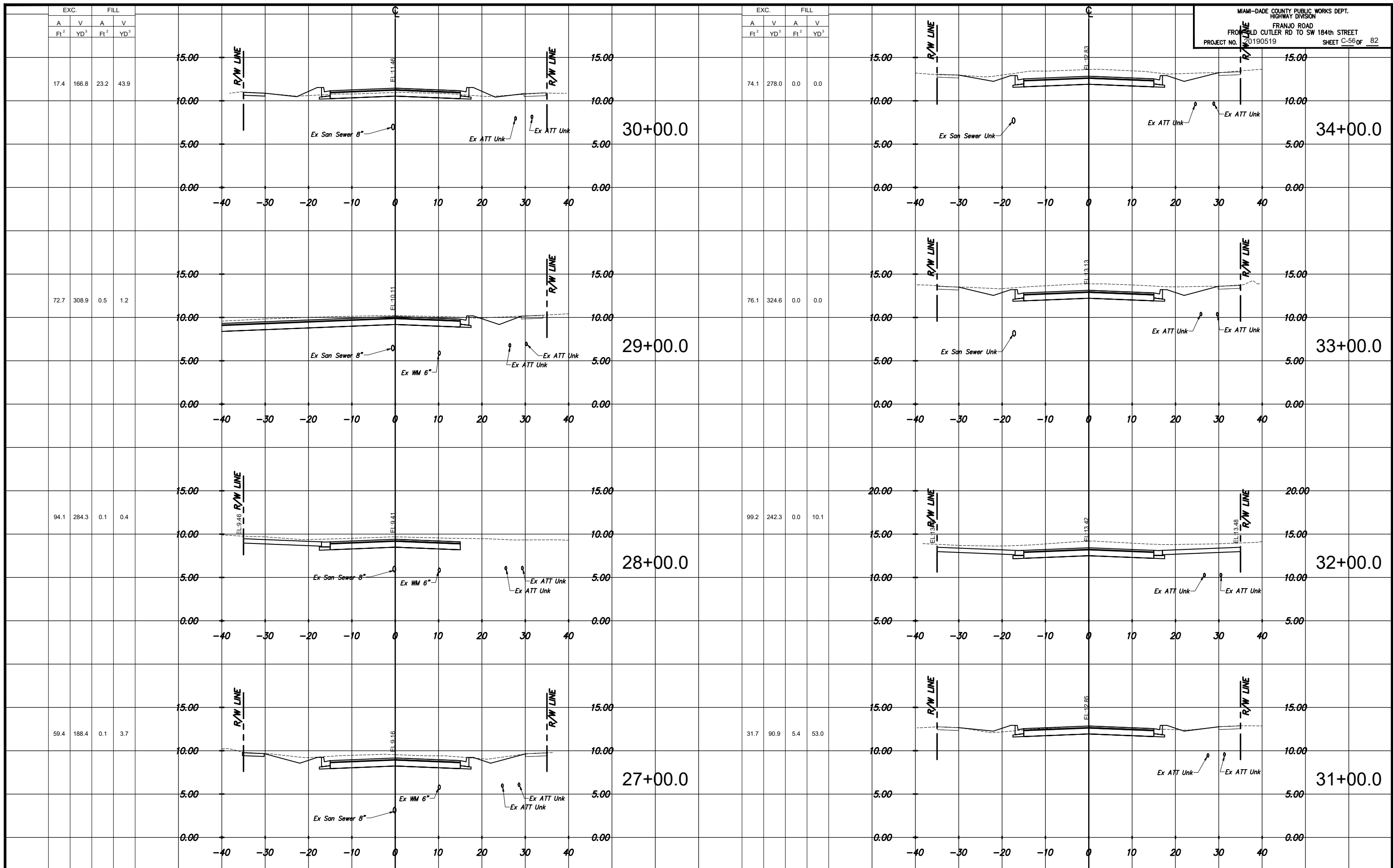
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	CMH	04/11/2021		RM	04/11/2021

CHECKED BY	NAME	DATE	CHECKED BY	NAME	DATE
	CMH			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 <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
17.4	166.8	23.2	43.9

EXC.		FILL	
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
74.1	278.0	0.0	0.0

72.7	308.9	0.5	1.2
------	-------	-----	-----

76.1	324.6	0.0	0.0
------	-------	-----	-----

94.1	284.3	0.1	0.4
------	-------	-----	-----

99.2	242.3	0.0	10.1
------	-------	-----	------

59.4	188.4	0.1	3.7
------	-------	-----	-----

31.7	90.9	5.4	53.0
------	------	-----	------

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

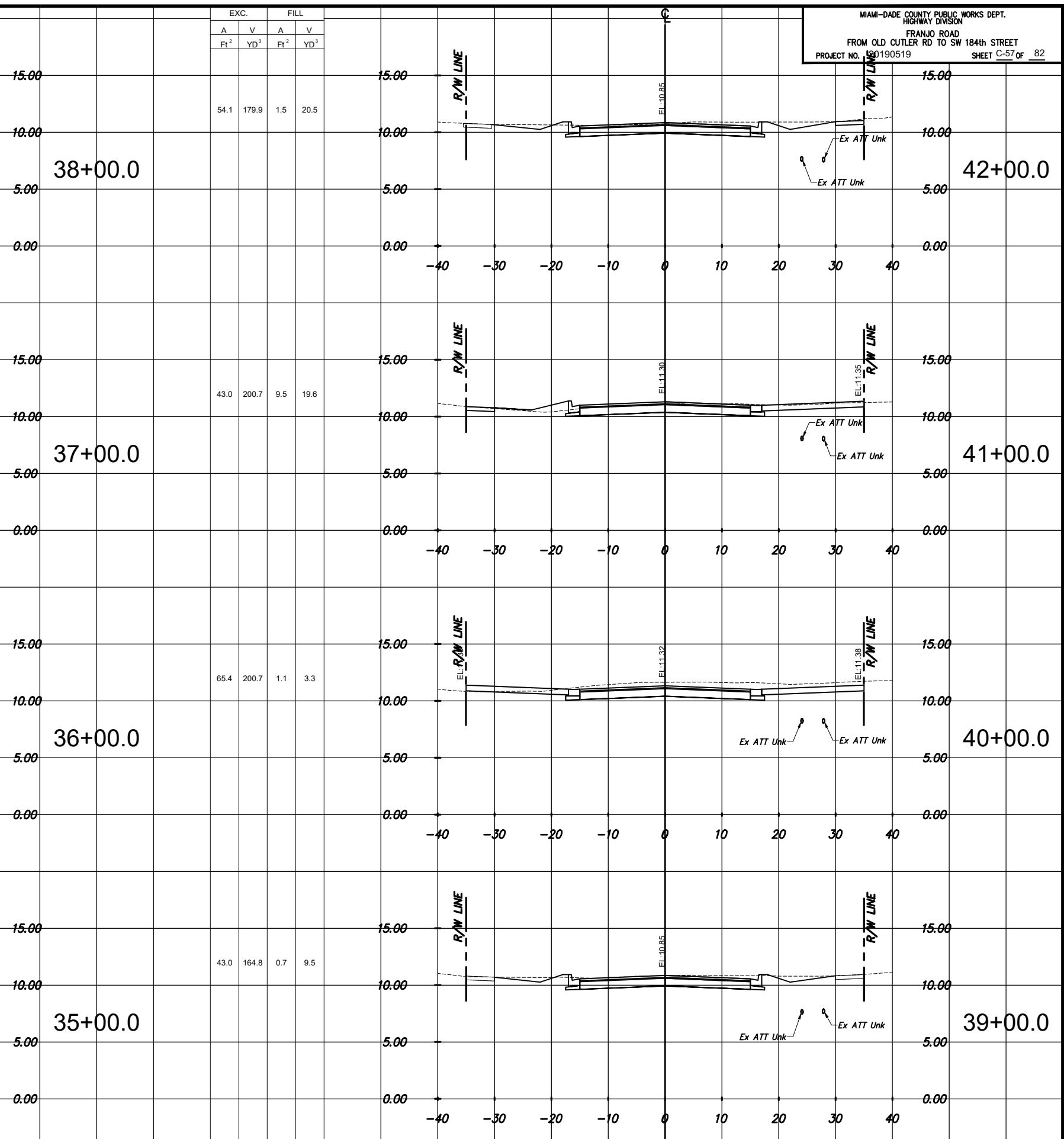
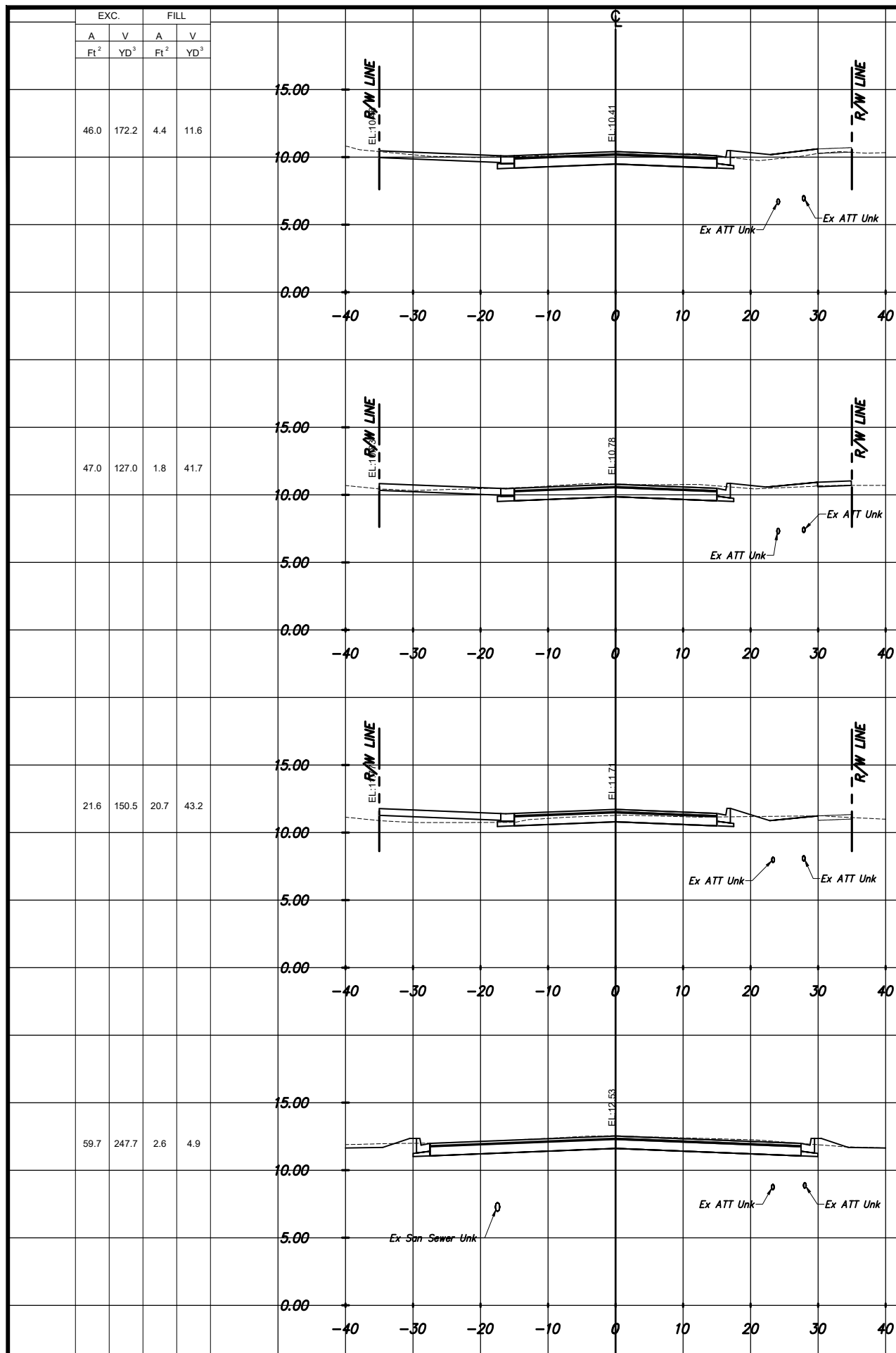


The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

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

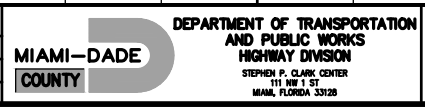


REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



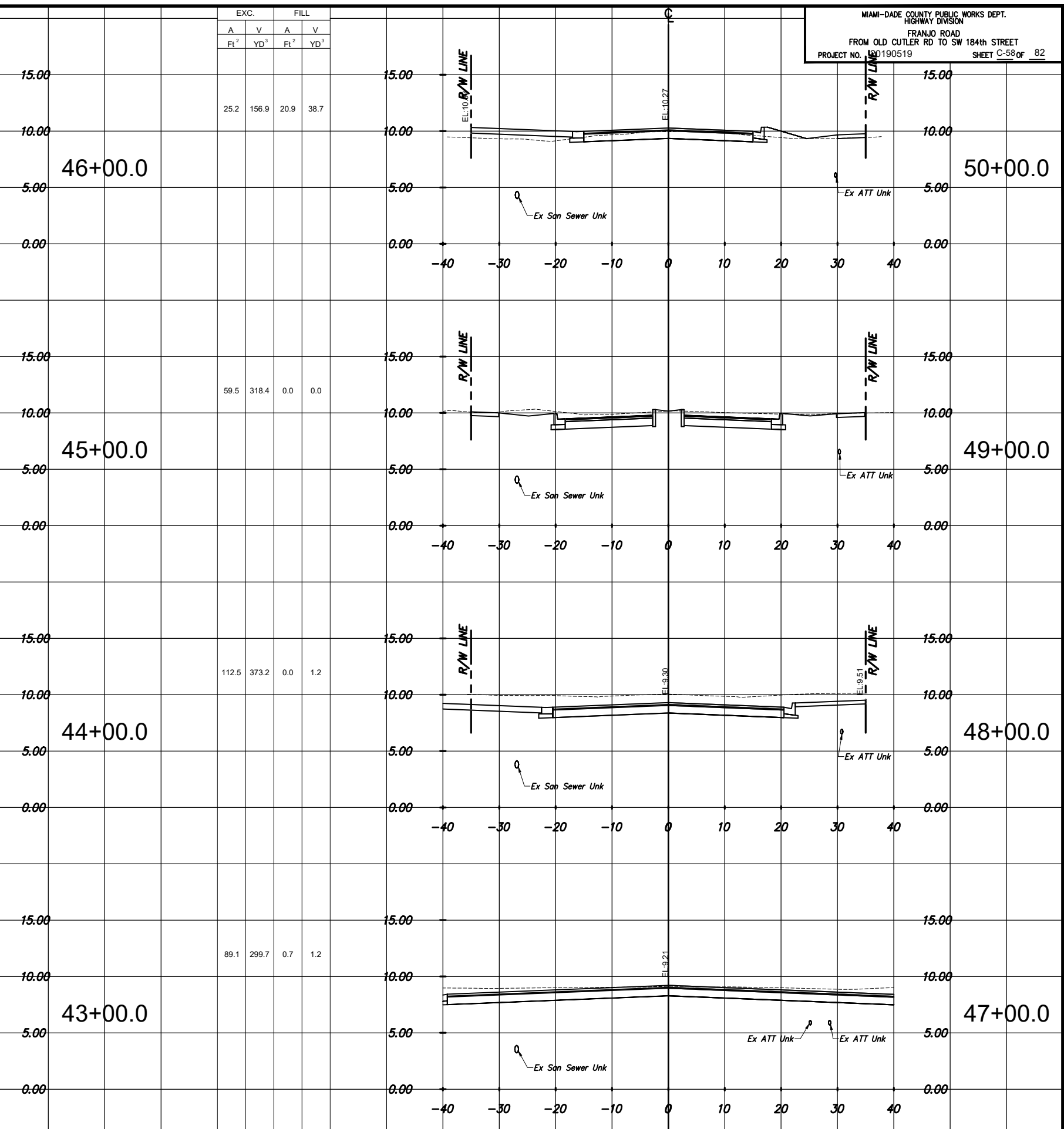
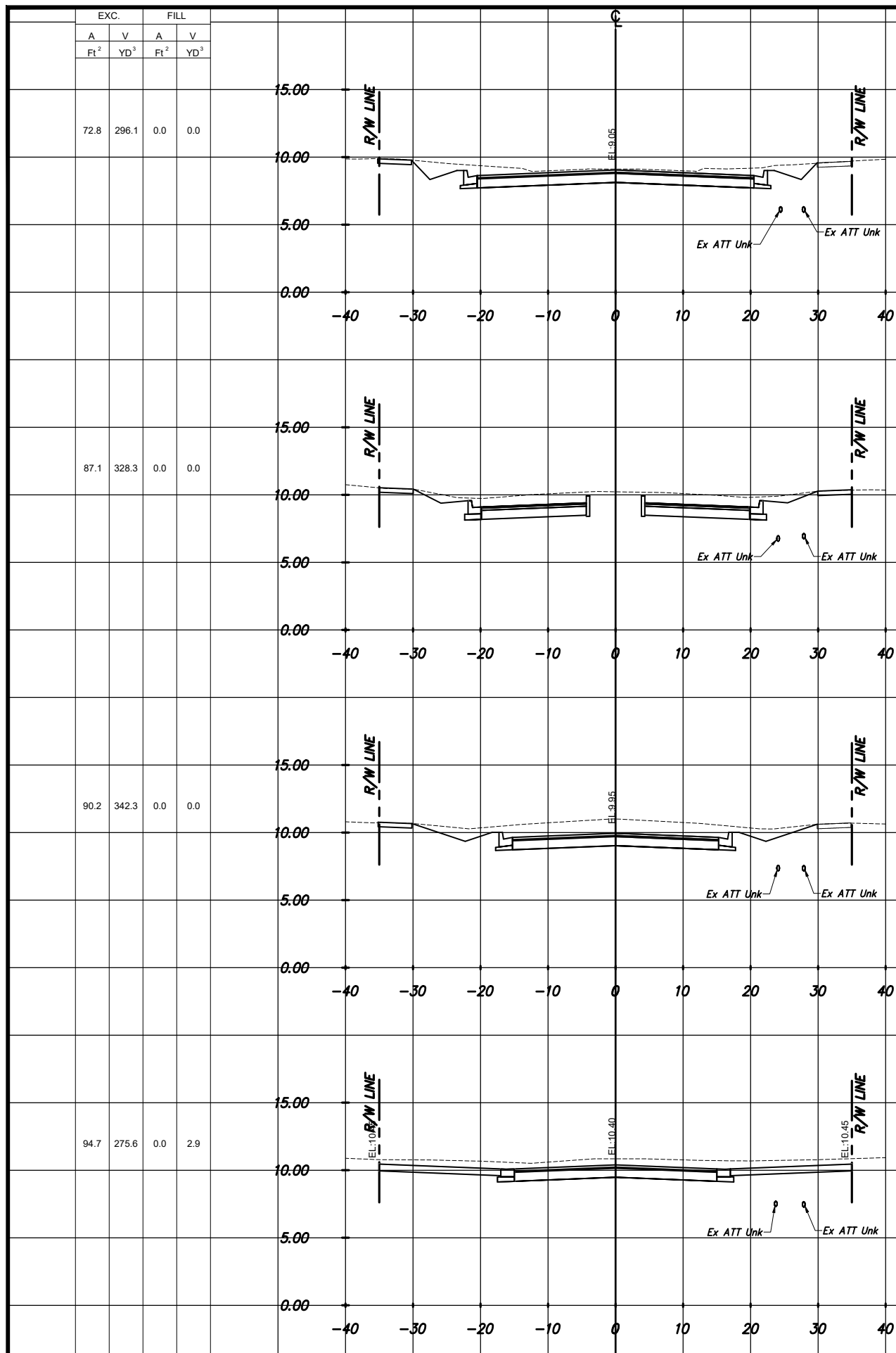
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

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



CROSS SECTIONS





EXC.		FILL	
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
72.8	296.1	0.0	0.0

EXC.		FILL	
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
25.2	156.9	20.9	38.7

EXC.		FILL	
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
87.1	328.3	0.0	0.0

EXC.		FILL	
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
59.5	318.4	0.0	0.0

EXC.		FILL	
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
90.2	342.3	0.0	0.0

EXC.		FILL	
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
112.5	373.2	0.0	1.2

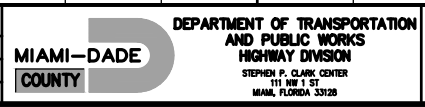
EXC.		FILL	
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
94.7	275.6	0.0	2.9

EXC.		FILL	
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
89.1	299.7	0.7	1.2

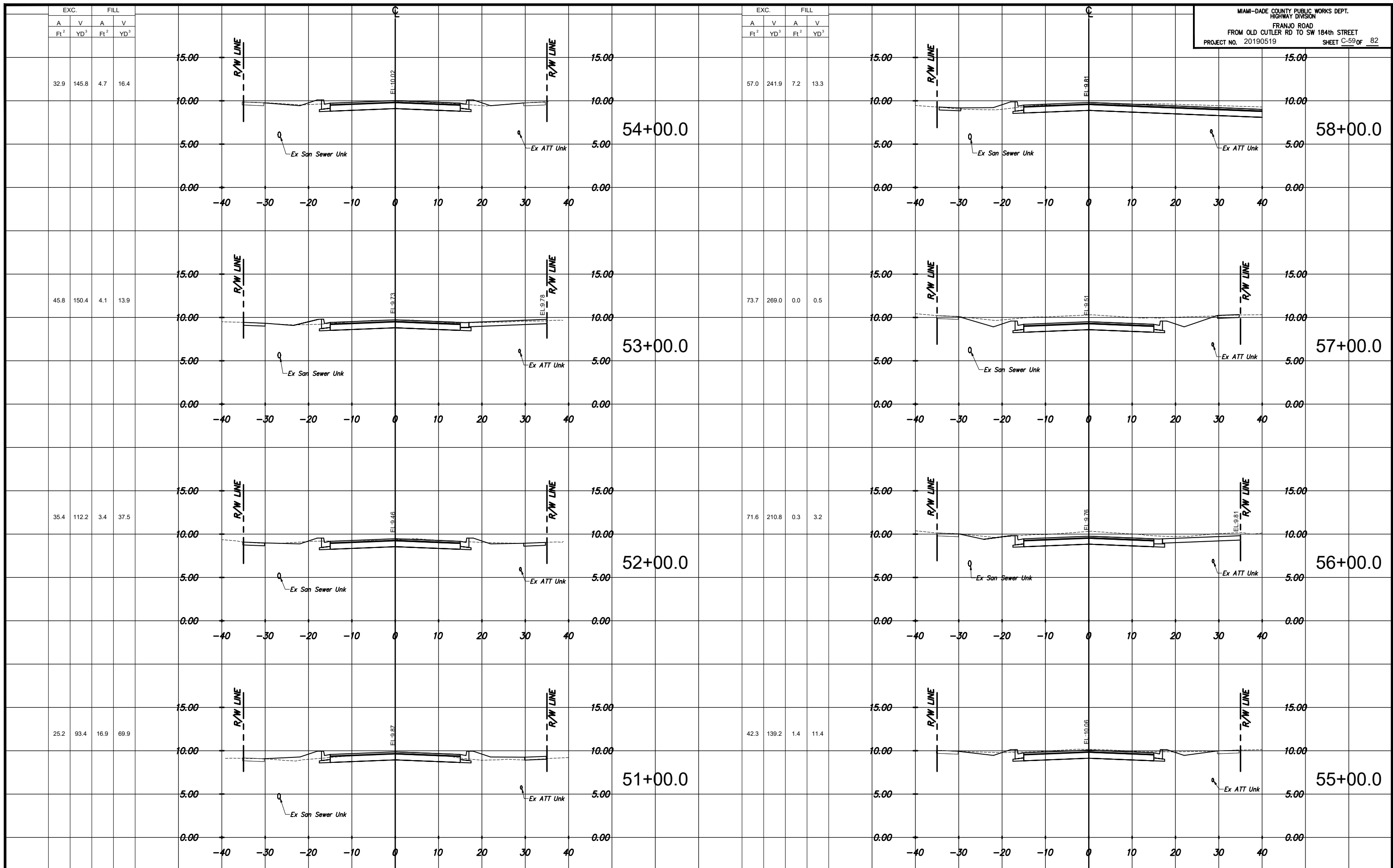
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHECKED BY	CMH	04/11/2021	CHECKED BY	CMH	04/11/2021
SUPERVISED BY:					



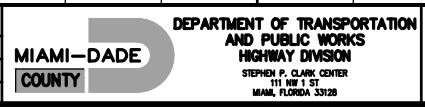
CROSS SECTIONS



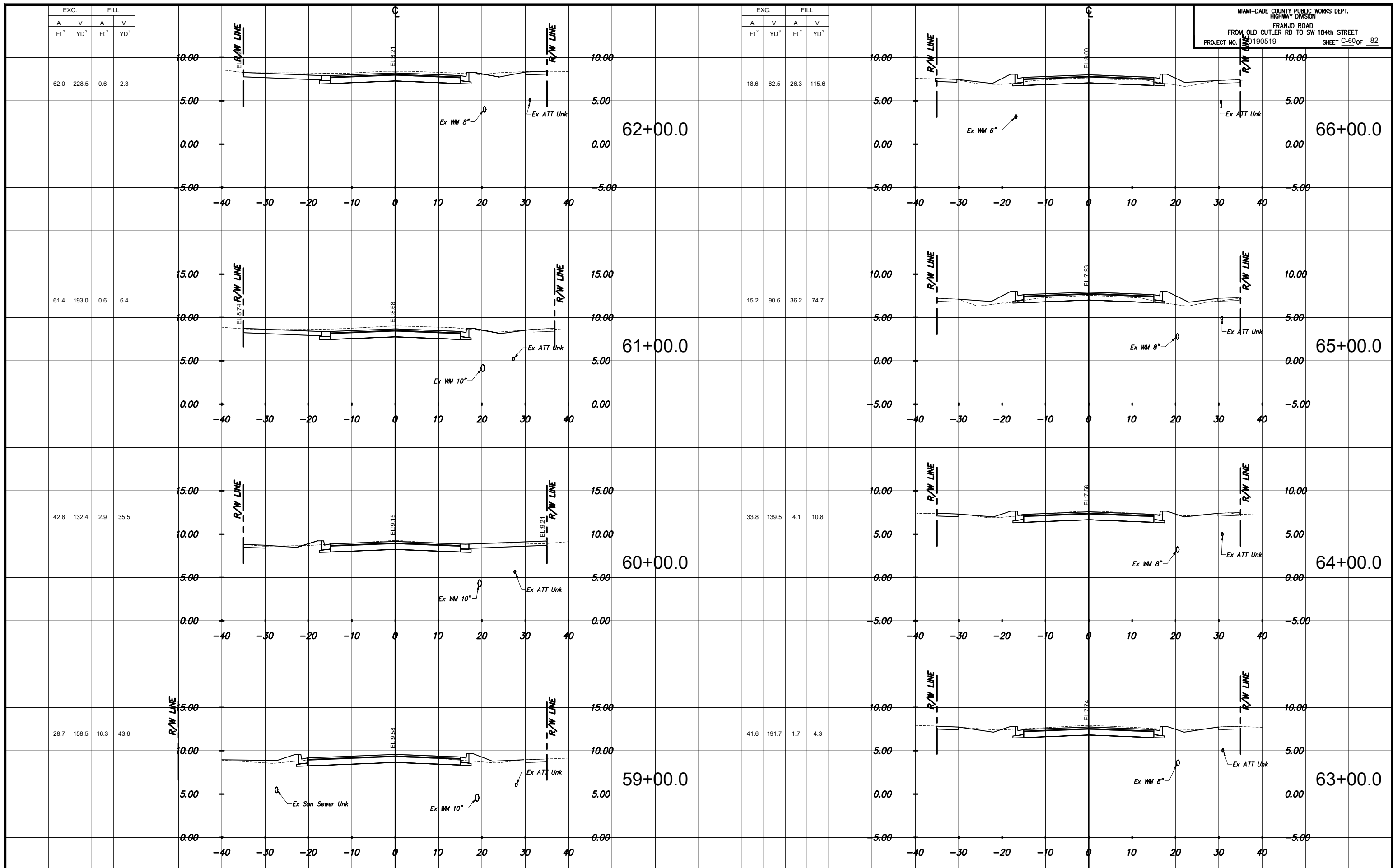
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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



CROSS SECTIONS



REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

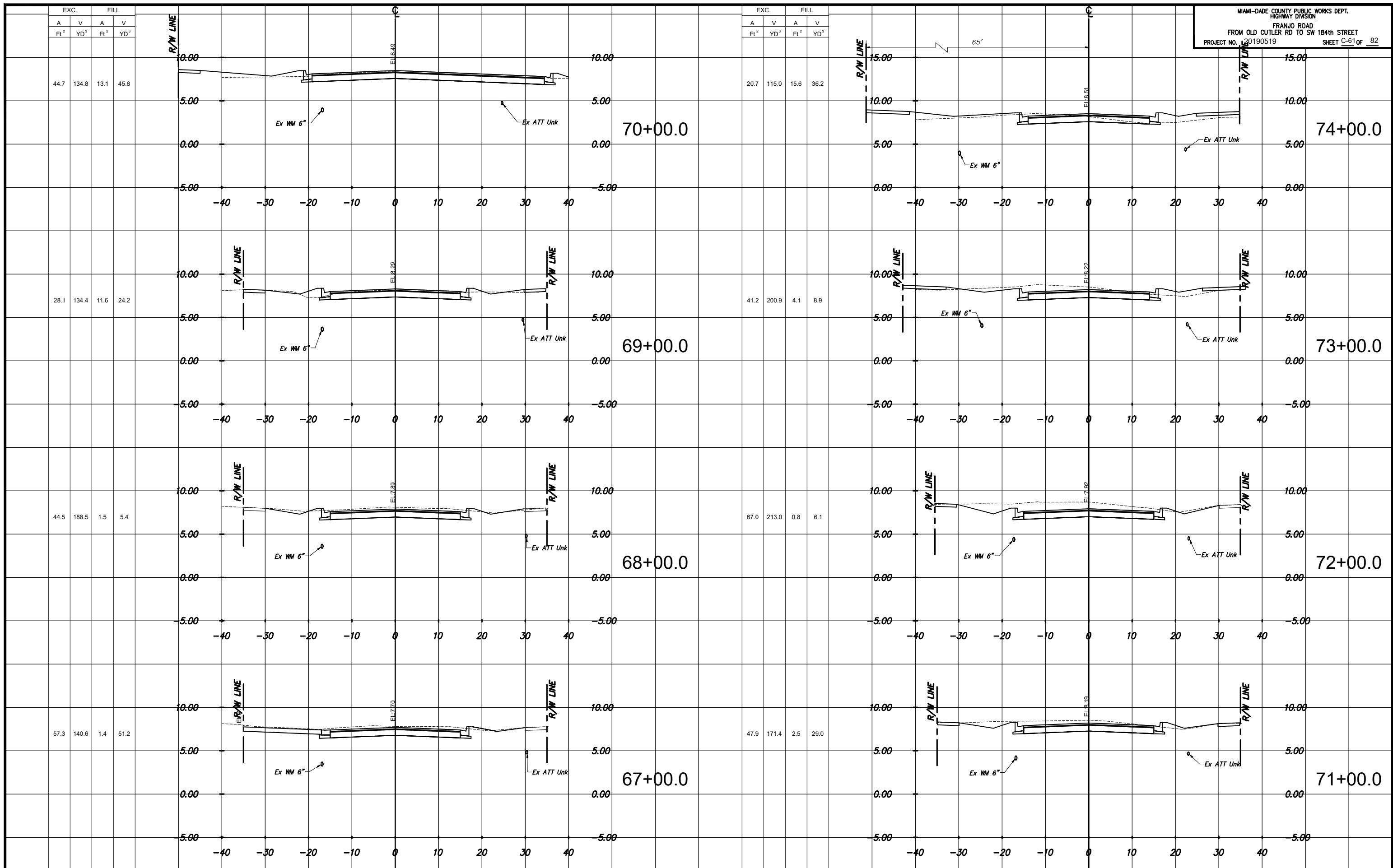


The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

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

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 <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
44.7	134.8	13.1	45.8

EXC.		FILL	
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
20.7	115.0	15.6	36.2

EXC.		FILL	
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
28.1	134.4	11.6	24.2

EXC.		FILL	
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
41.2	200.9	4.1	8.9

EXC.		FILL	
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
44.5	188.5	1.5	5.4

EXC.		FILL	
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
67.0	213.0	0.8	6.1

EXC.		FILL	
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
57.3	140.6	1.4	51.2

EXC.		FILL	
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
47.9	171.4	2.5	29.0

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



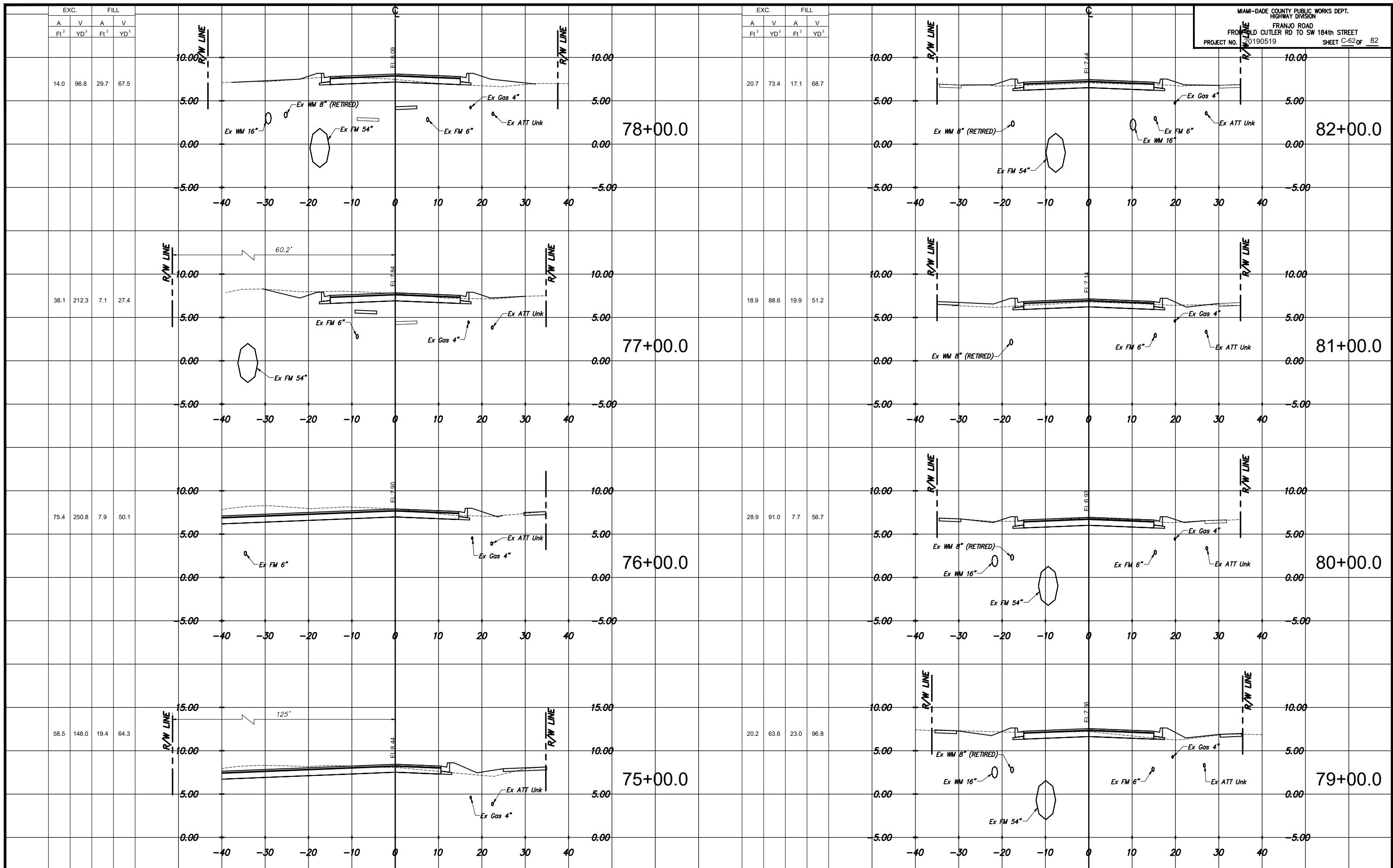
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	CMH	04/11/2021		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
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
14.0	96.8	29.7	67.5
38.1	212.3	7.1	27.4
75.4	250.8	7.9	50.1
58.5	148.0	19.4	64.3

EXC.		FILL	
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
20.7	73.4	17.1	68.7
18.9	88.6	19.9	51.2
28.9	91.0	7.7	56.7
20.2	63.6	23.0	96.8

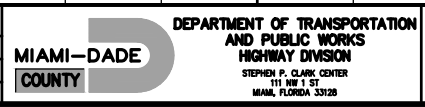
REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

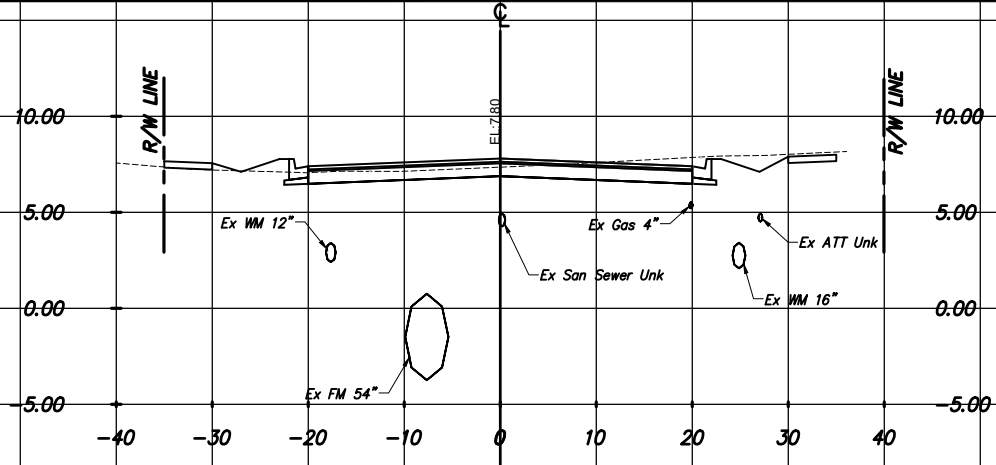
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	CMH	04/11/2021		RM	04/11/2021
CHECKED BY	NAME	DATE	CHECKED BY	NAME	DATE
	CMH			CMH	
SUPERVISED BY:	NAME	DATE			



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

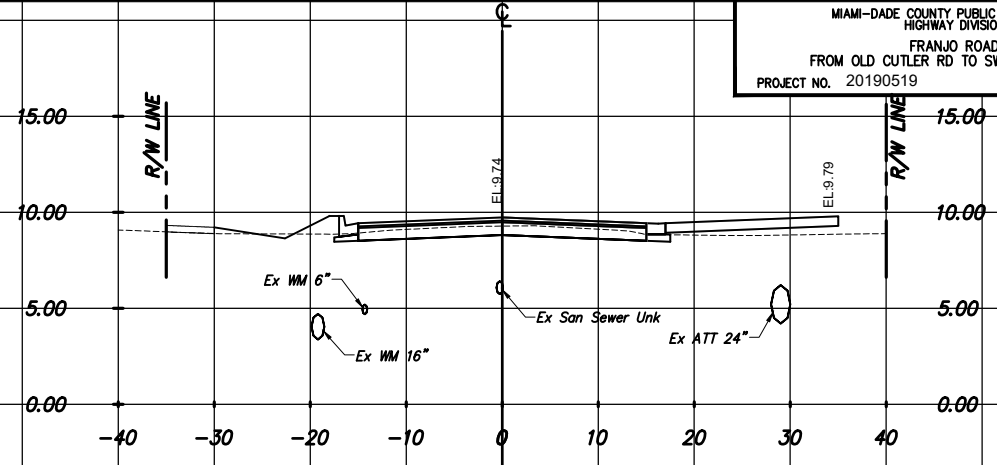
CROSS SECTIONS

EXC.		FILL	
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
45.9	225.5	13.4	26.7



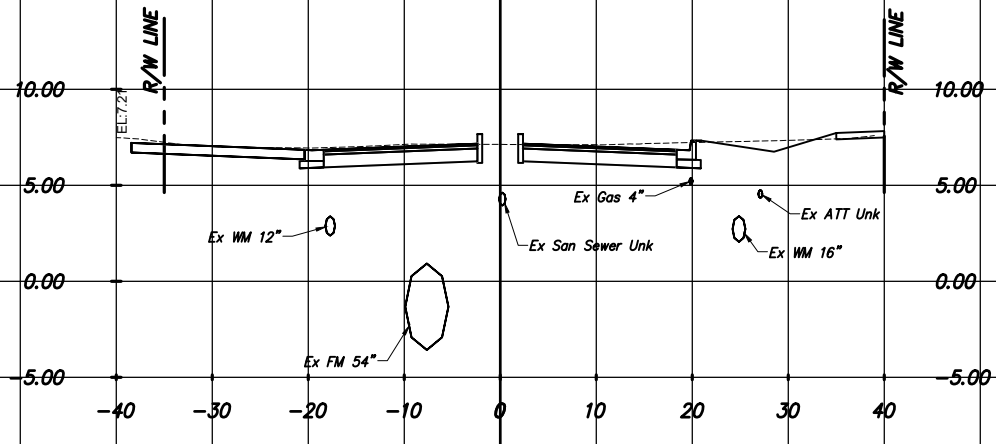
86+00.0

EXC.		FILL	
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>
19.1	84.7	23.8	63.4



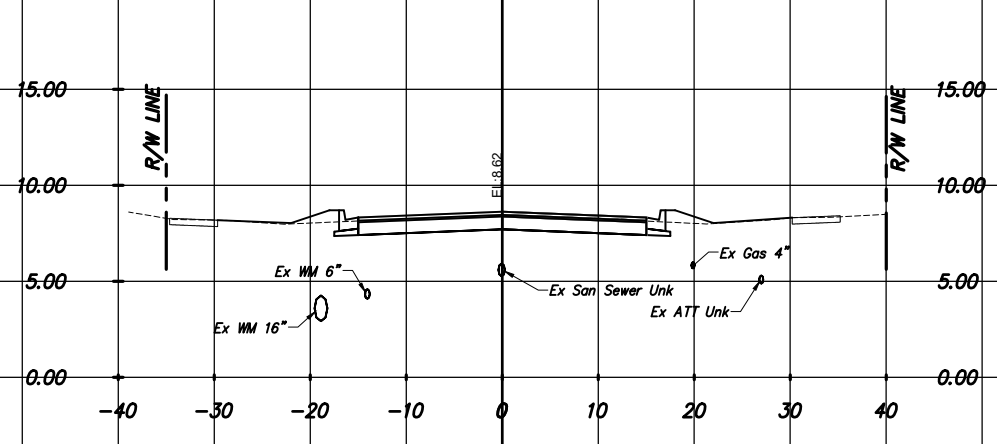
90+00.0

75.9	241.1	1.1	9.1
------	-------	-----	-----



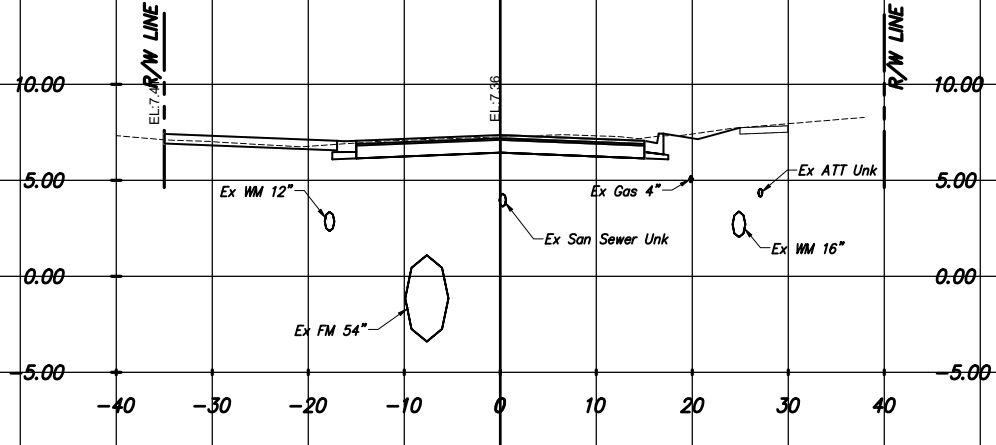
85+00.0

26.7	124.7	10.4	26.4
------	-------	------	------



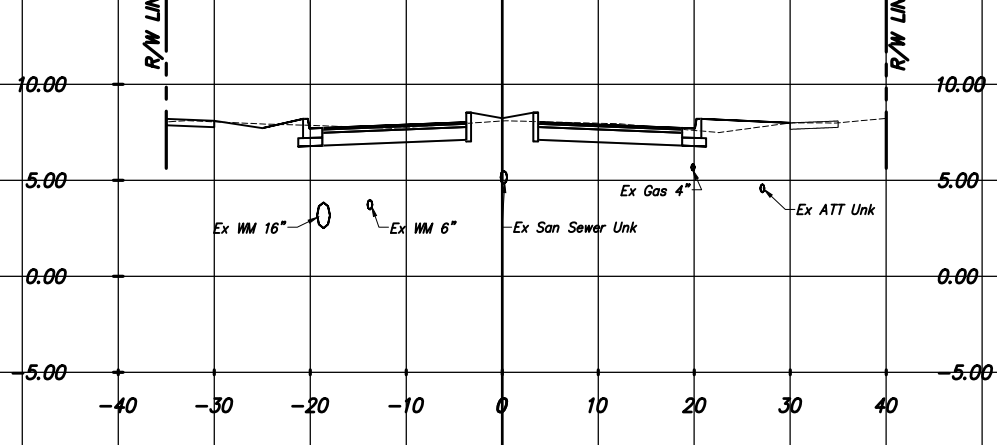
89+00.0

54.3	231.0	3.9	26.5
------	-------	-----	------



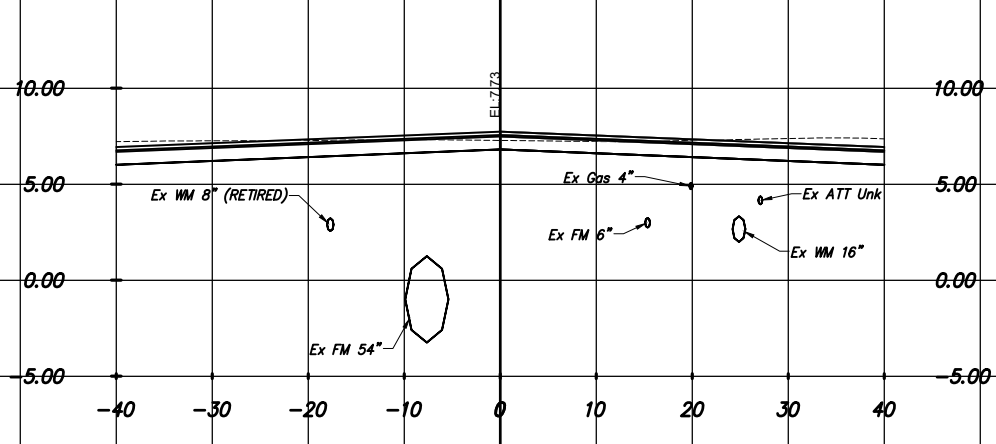
84+00.0

40.7	166.2	3.8	44.7
------	-------	-----	------



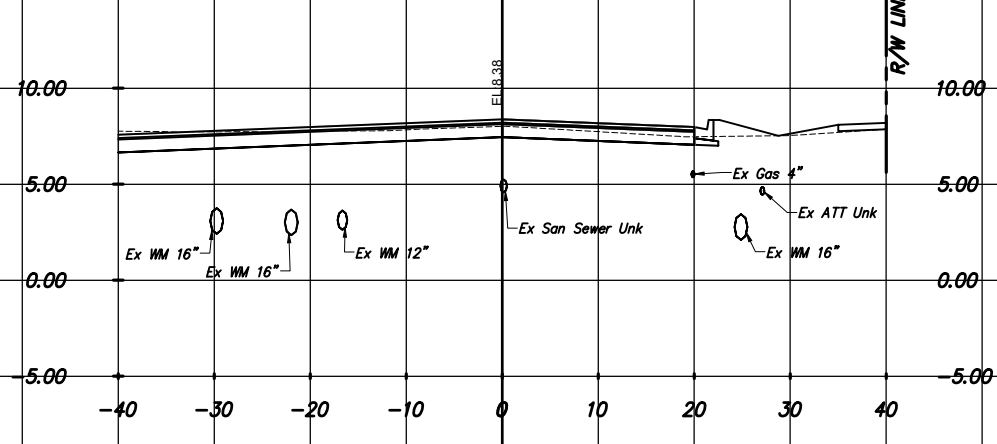
88+00.0

70.4	168.7	10.4	51.1
------	-------	------	------



83+00.0

49.1	175.8	20.3	62.4
------	-------	------	------



87+00.0

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

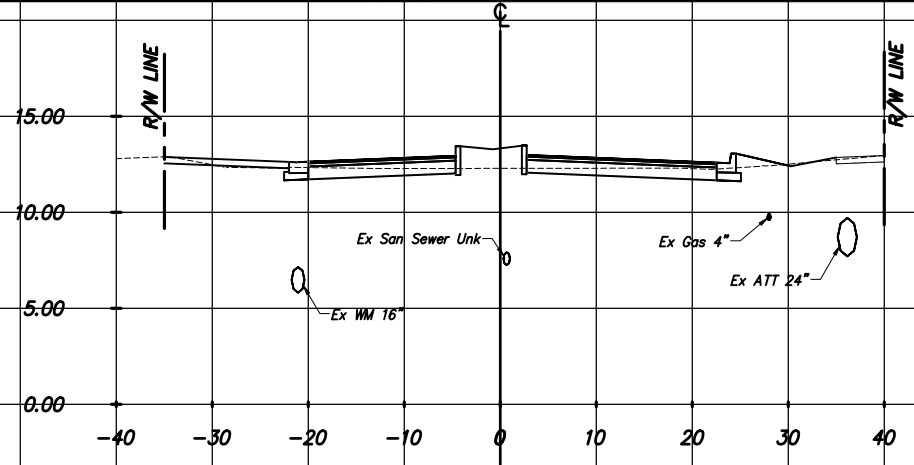
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	CMH	04/11/2021		RM	04/11/2021
CHECKED BY	NAME	DATE	CHECKED BY	NAME	DATE
	CMH			CMH	
SUPERVISED BY	NAME	DATE			

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

CROSS SECTIONS

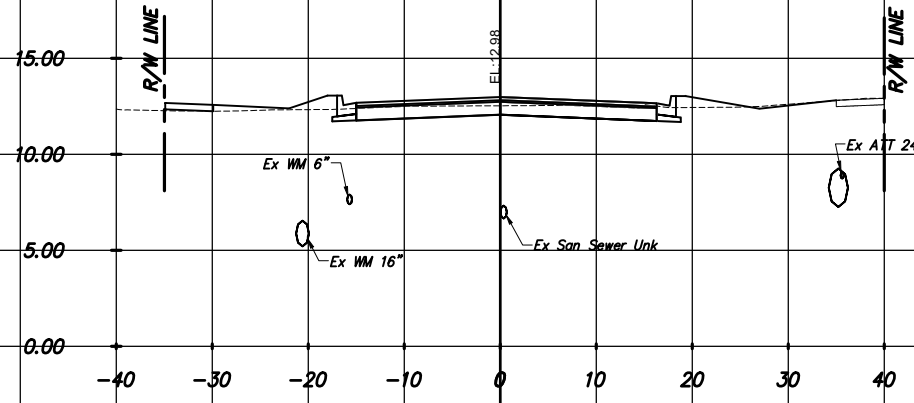
EXC.		FILL	
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>

20.6 79.3 27.7 79.8



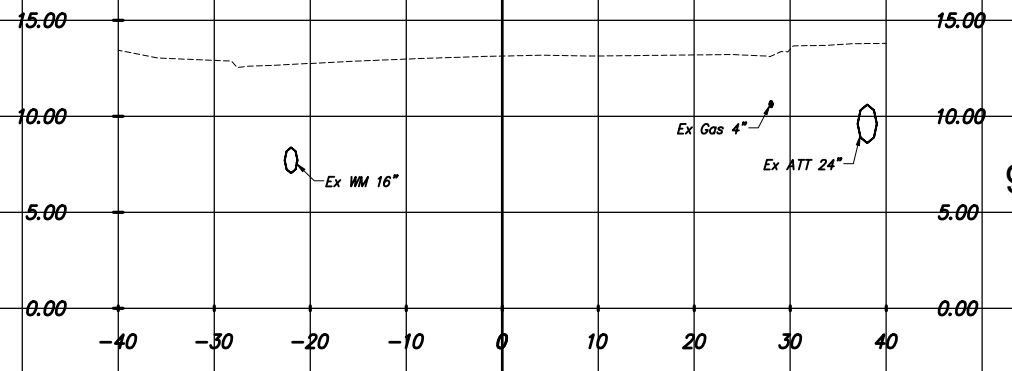
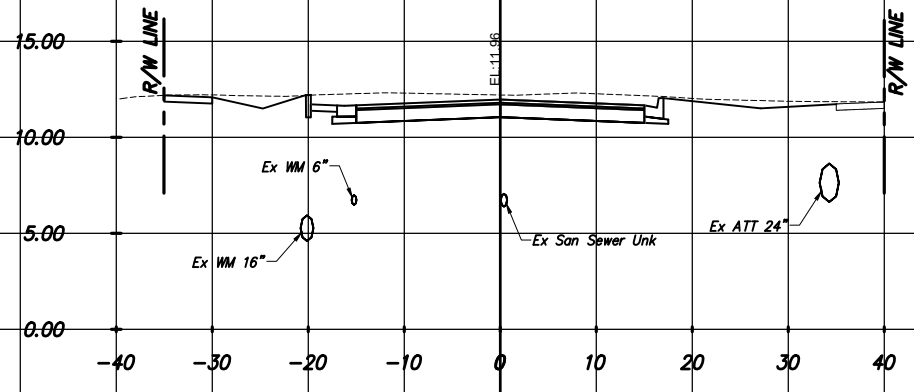
EXC.		FILL	
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>

22.2 147.1 15.4 28.5

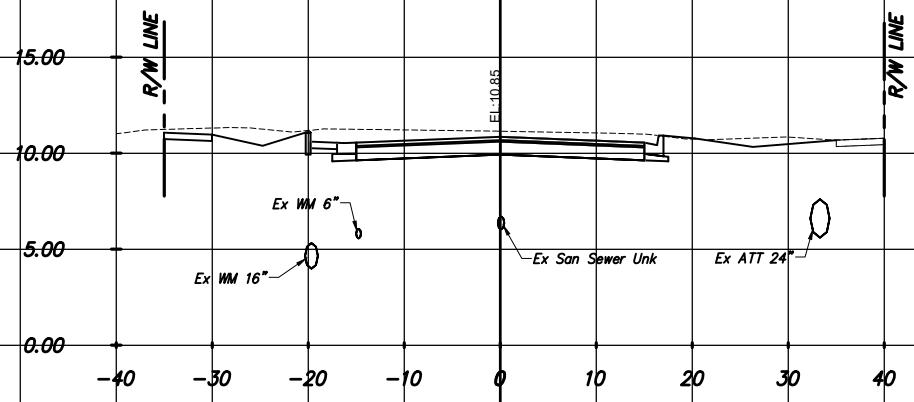


EXC.	FILL		
A	V	A	V
Ft <sup>2</sup>	YD <sup>3</sup>	Ft <sup>2</sup>	YD <sup>3</sup>

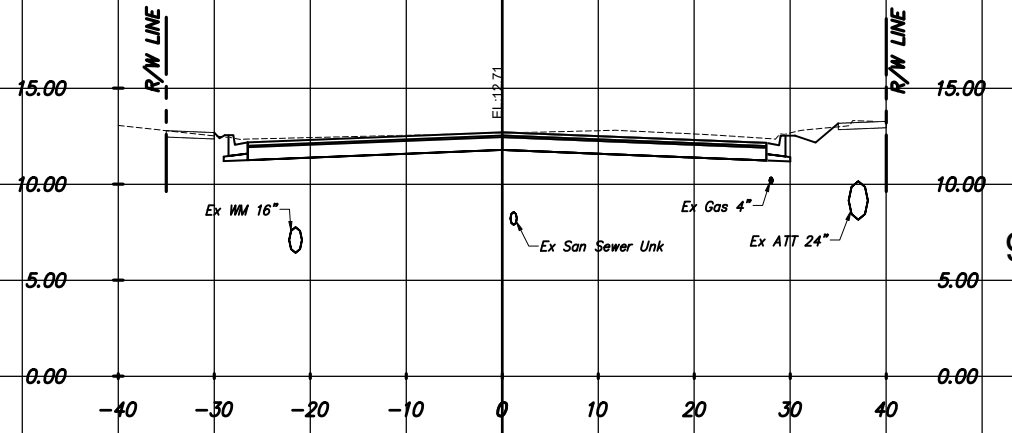
57.3 219.3 0.0 0.3



61.1 148.5 0.1 44.4



69.2 166.4 0.3 51.9



REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
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

CROSS SECTIONS

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBER																				GRAND TOTAL	
			C-66		C-67		C-68		C-69		C-70		C-71		C-72		C-73		C-74		C-75		ORIG.	FINAL
			ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	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 (ROUNDAABOUT 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			784
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**

- 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.
- 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.
- ALL PAVEMENT MARKINGS, MESSAGES, AND ARROWS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
- REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED ALONG THE ENTIRE LENGTH OF THE PROJECT.
- MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND AT THE END OF THE PROJECT AND AT ALL SIDE STREETS WITHOUT JOGS OR OFFSETS.
- THE CONTRACTOR SHALL REMOVE EXISTING MARKINGS BY FDOT APPROVED METHOD WITHOUT DAMAGE TO THE FRICTION COURSE.
- 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.
- 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.
- 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.
- 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.
- SCHOOL CROSSING SIGNAGE AND SCHOOL SPEED ZONE SIGNAGE TO CONFORM WITH MUTCD/FDOT STANDARDS (FLUORESCENT YELLOW-GREEN BACKGROUNDS).
- REFLECTIVE PAVEMENT MARKERS AS PER FDOT STANDARD INDEX NO 17352.

**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



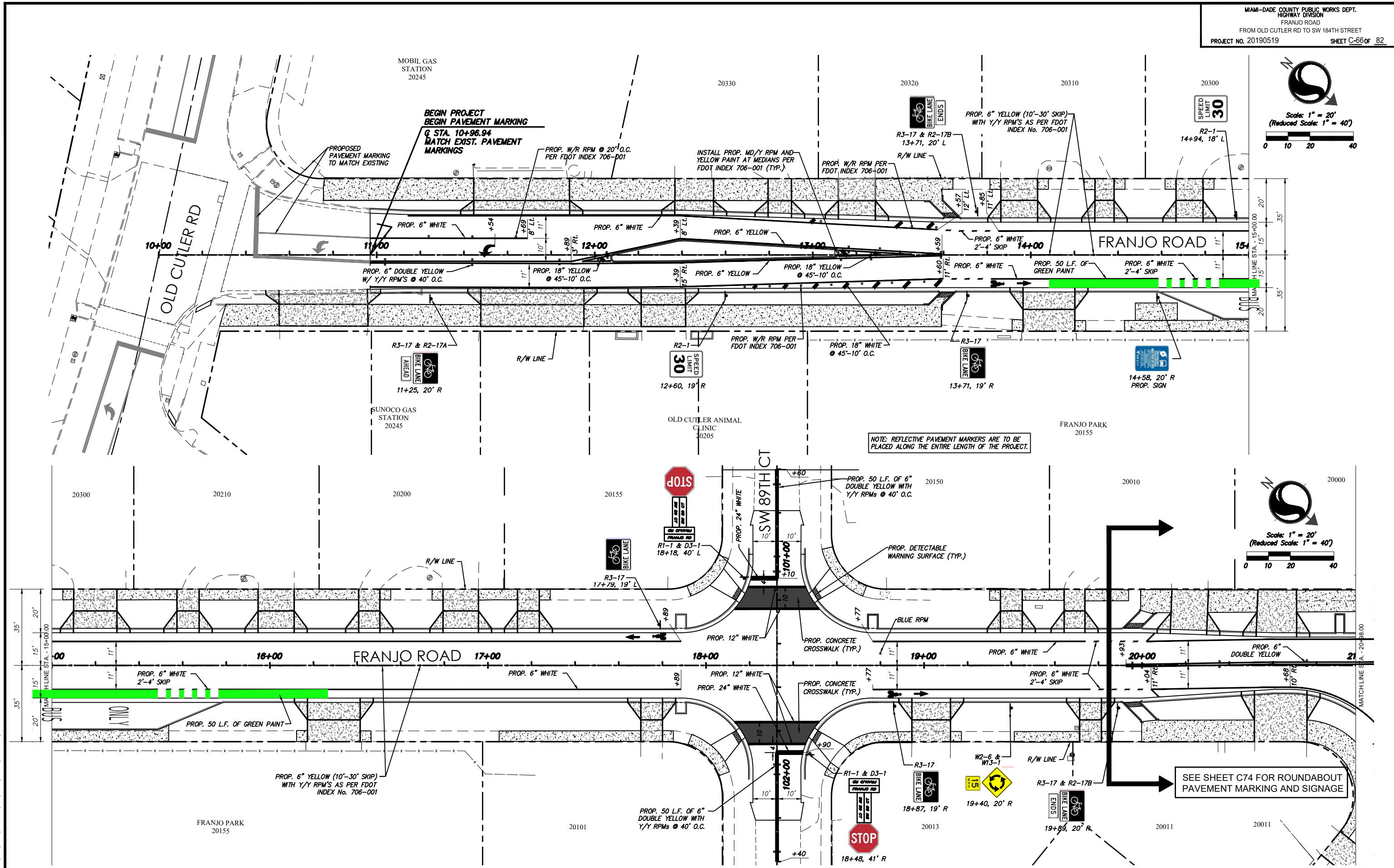
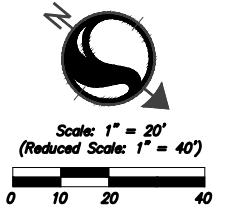
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

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



**PAVEMENT MARKINGS**





PLOTTED BY: MOBILES, ROD DATE: 2/16/2023 5:12 PM  
 CREATOR: 2022-12-14 - 1A/2156/MC/1919952/CIVIL/DESIGN DRAWING/CIVIL PLANS/19952 PAVEMENT MARKINGS

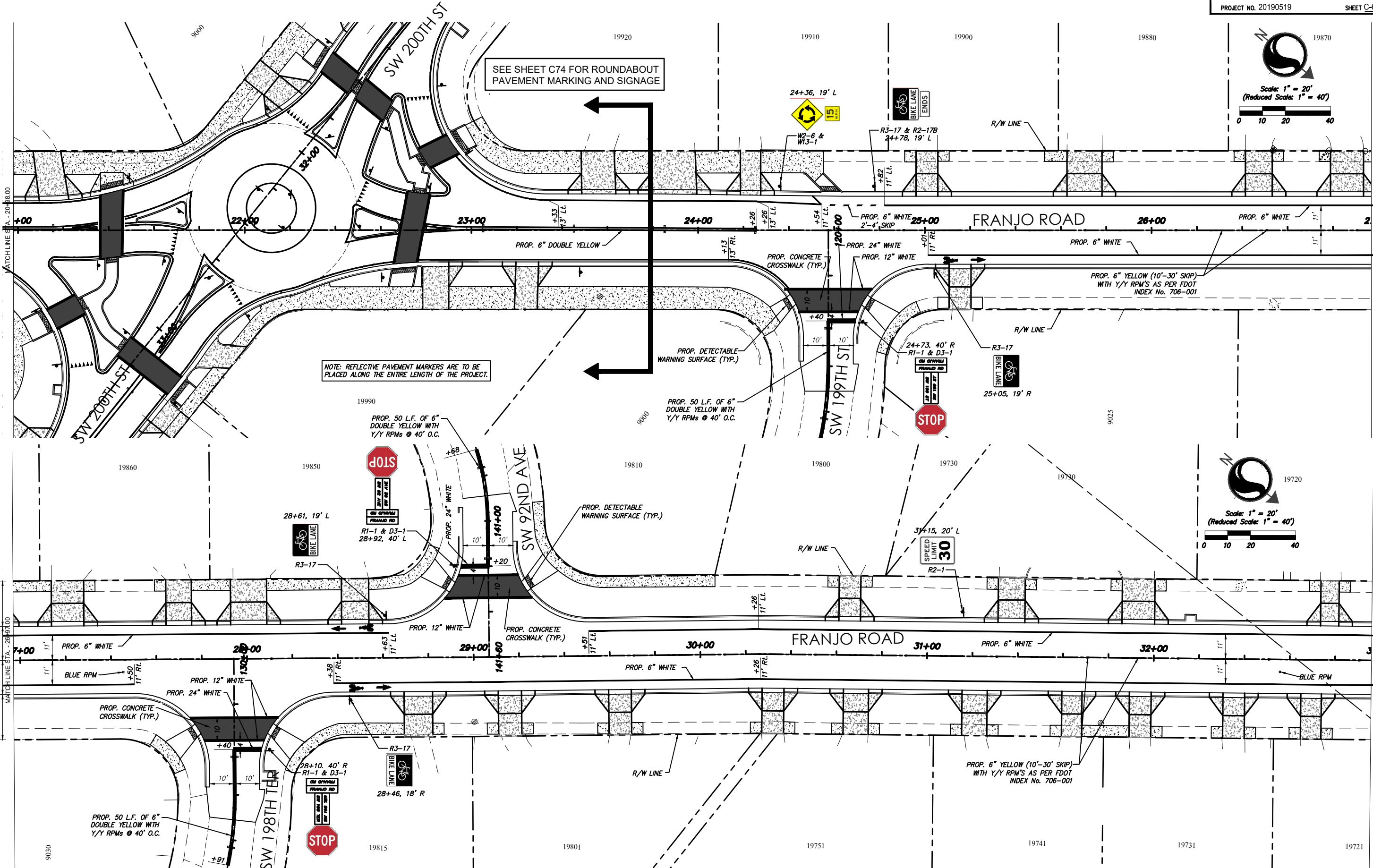
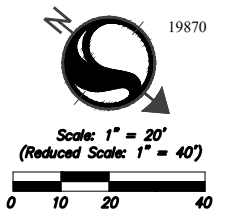
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	CMH	07/29/2020		MS	07/29/2020
CHECKED BY	NAME	DATE	CHECKED BY	NAME	DATE
	CMH			CMH	
SUPERVISED BY	NAME	DATE	SUPERVISED BY	NAME	DATE

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

**PAVEMENT MARKINGS**



SEE SHEET C74 FOR ROUNDABOUT PAVEMENT MARKING AND SIGNAGE

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

PROP. 50 L.F. OF 6" DOUBLE YELLOW WITH Y/Y RPM'S @ 40' O.C.

PROP. 50 L.F. OF 6" DOUBLE YELLOW WITH Y/Y RPM'S @ 40' O.C.

PROP. 6" YELLOW (10'-30' SKIP) WITH Y/Y RPM'S AS PER FDOT INDEX No. 706-001

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

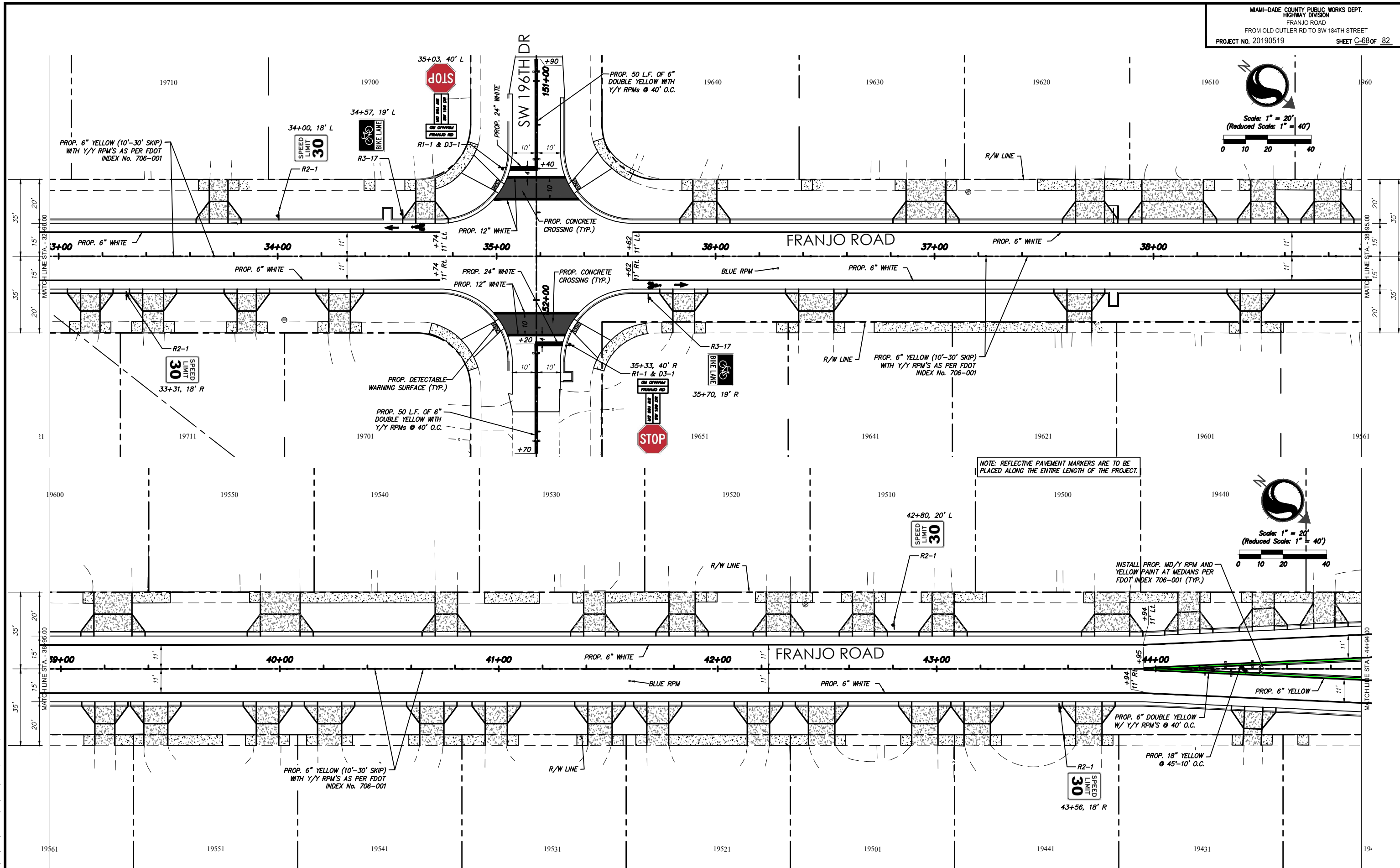
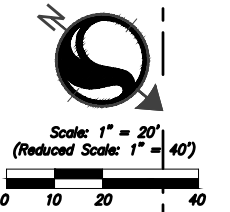
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	CMH	07/29/2020		MS	07/29/2020
CHECKED BY	NAME	DATE	CHECKED BY	NAME	DATE
	CMH			CMH	
SUPERVISED BY	NAME	DATE	SUPERVISED BY	NAME	DATE



PAVEMENT MARKINGS

PLOTTED BY: MOBILES, RID, DATE: 2/16/2023 5:12 PM  
CREATED: 2022-12-14 - 10:21:56 AM (C:\M\DESIGN\DRAWING\CIVIL\PLANS\19952\_PAVEMENT MARKINGS.DWG)





REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

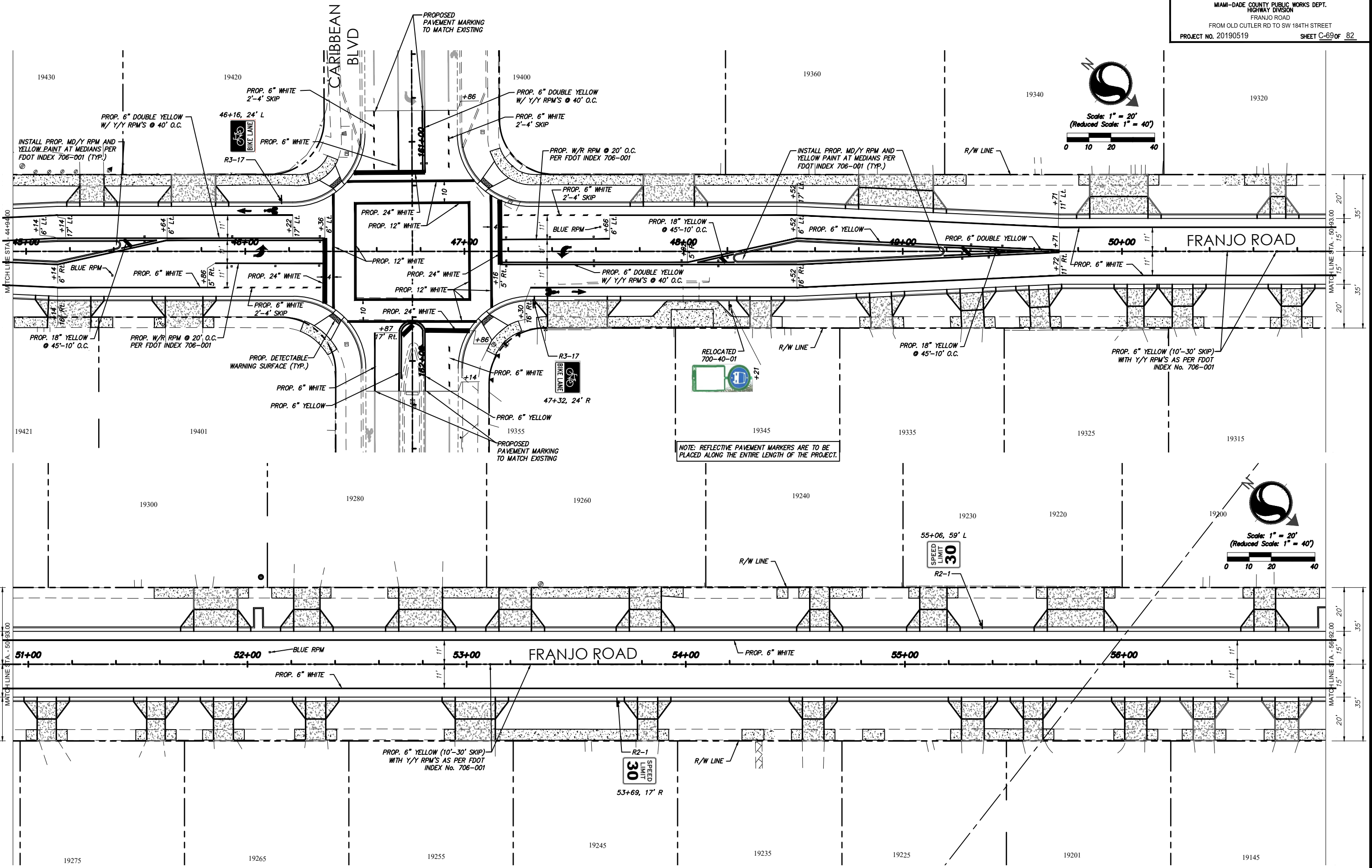
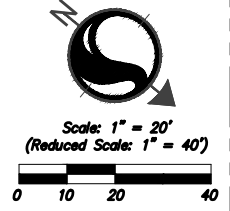
301 Ponce de Leon Blvd, Suite 900  
Coral Gables, Florida 33134  
www.stantec.com

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

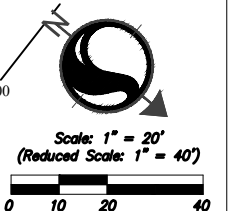
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC WORKS  
HIGHWAY DIVISION  
STEPHEN P. CLARK CENTER  
111 NW 1 ST  
MIAMI, FLORIDA 33128

PAVEMENT MARKINGS

PLOTTED BY: MOBILES, R00, DATE: 2/16/2023, 5:12 PM  
 CREATOR: 2022-12-14 - N:\2156\ACTIVE\215619952\CIVIL\DESIGN\DRAWING\CIVIL PLANS\19562\_PAVEMENT MARKINGS.DWG



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



PLOTTED BY: MOBILES, RFD, DATE: 2/16/2023 5:13 PM  
 CREATED: 2022-12-14 - 10:21:56 AM (TIME: 12/16/2022) CIVIL DESIGN DRAWING (CIVIL) PLAN: 19592 PAVEMENT MARKINGS

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



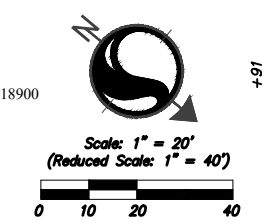
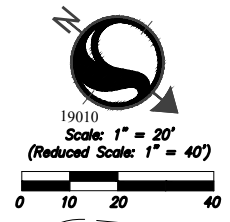
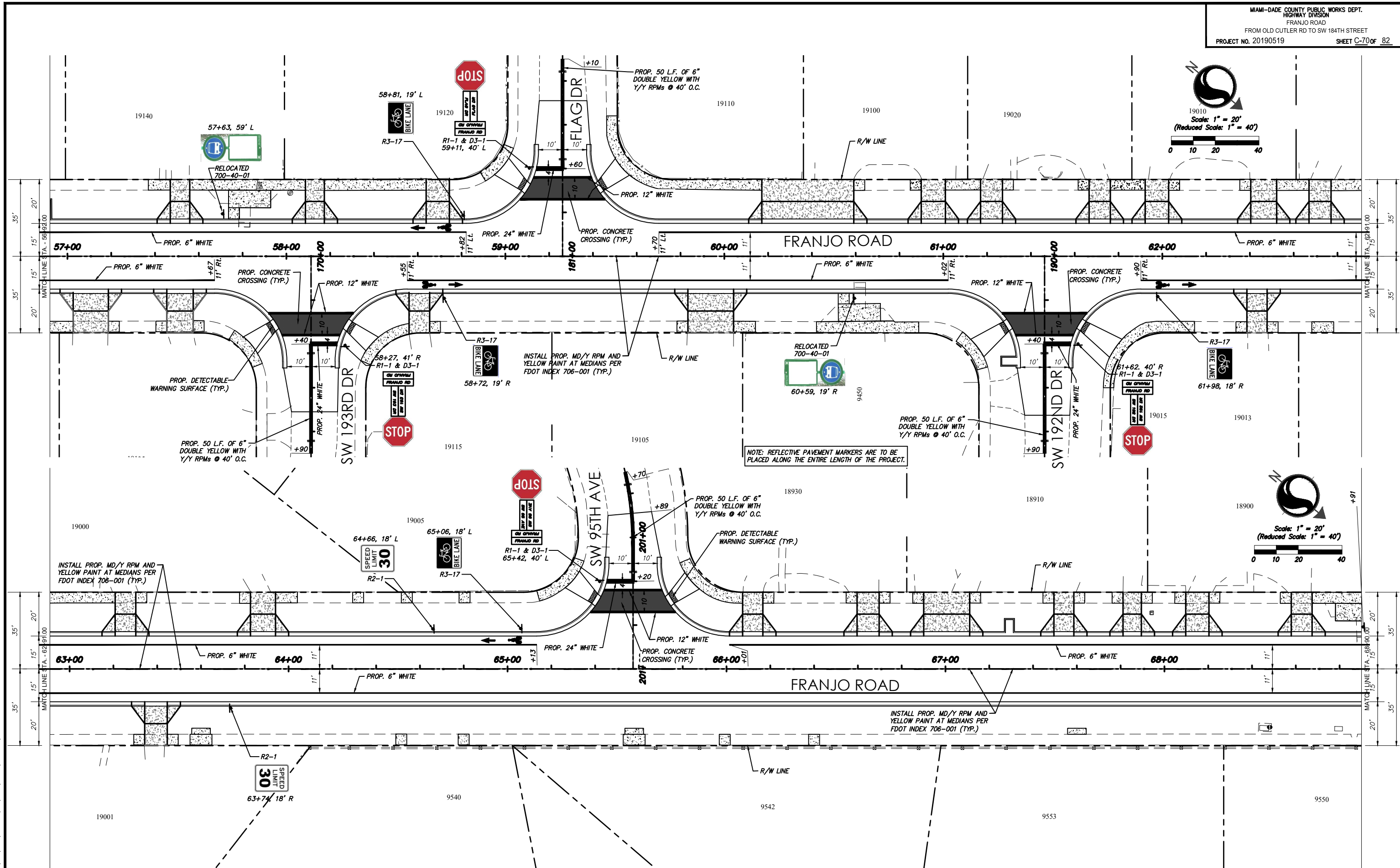
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

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



PAVEMENT MARKINGS



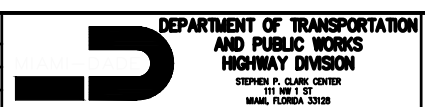


REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



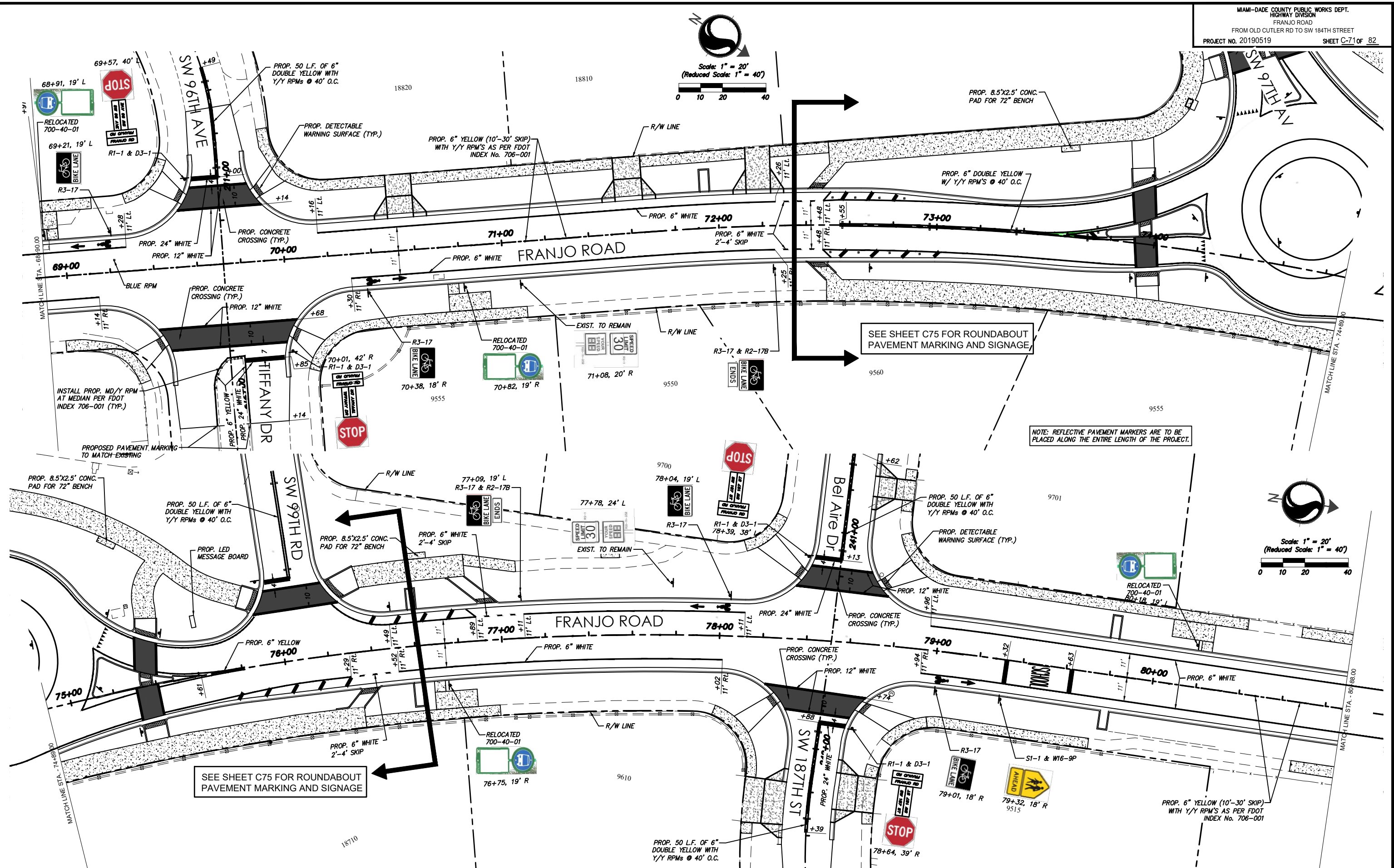
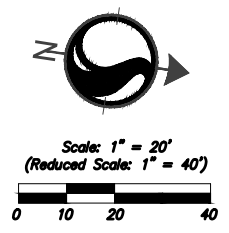
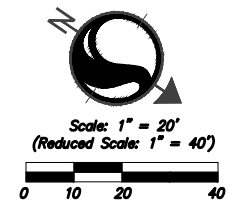
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

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



PAVEMENT MARKINGS

PLOTTED BY: MOBILES, RFD, DATE: 2/16/2023 5:13 PM  
 CREATED: 2022-12-14 - 10:21:56 AM (C:\PROJECTS\20190519\9502\_PAVEMENT MARKINGS\CIVIL\DESIGN DRAWING\CIVIL\DESIGN DRAWING)



SEE SHEET C75 FOR ROUNDABOUT PAVEMENT MARKING AND SIGNAGE

SEE SHEET C75 FOR ROUNDABOUT PAVEMENT MARKING AND SIGNAGE

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

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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

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.

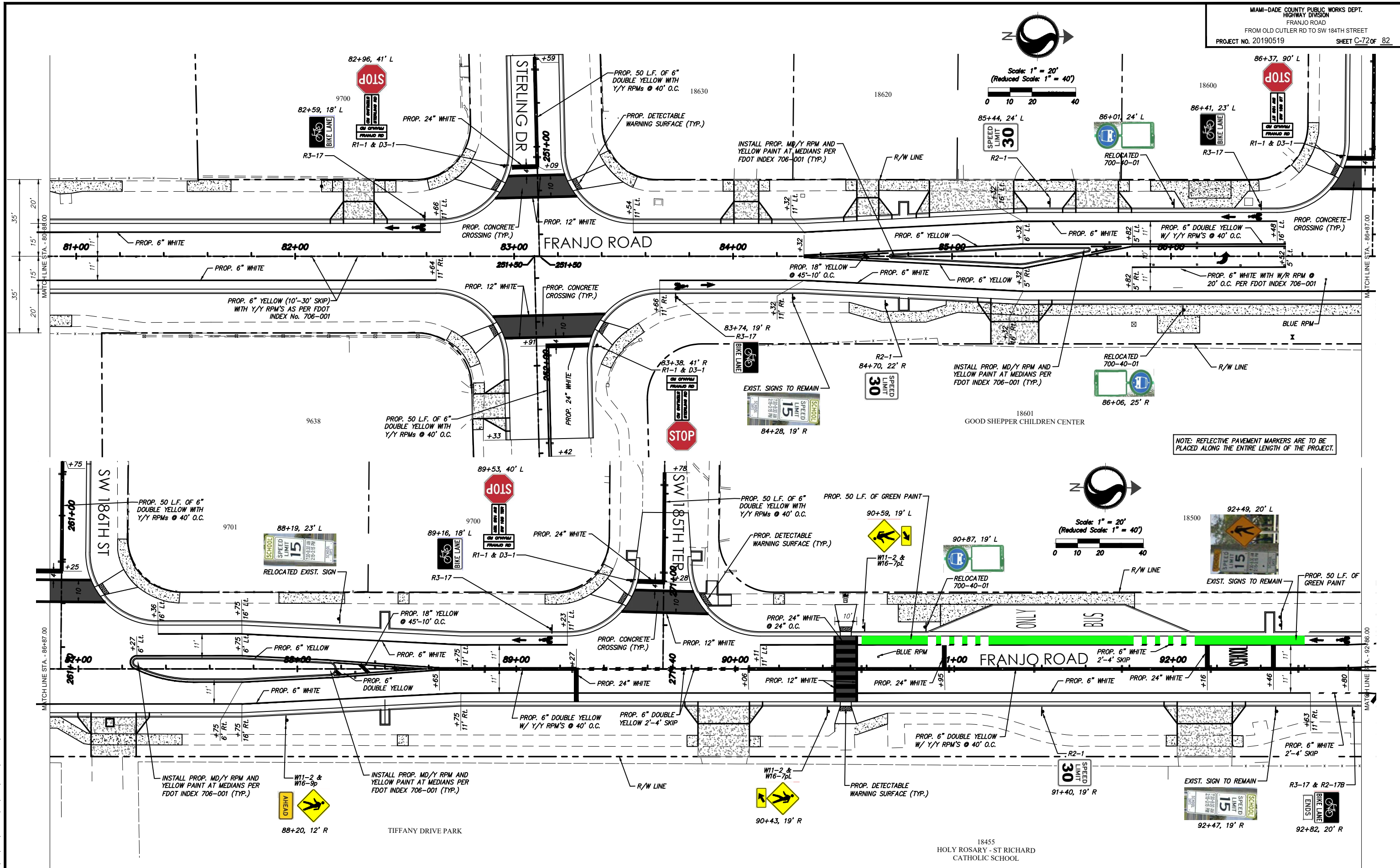
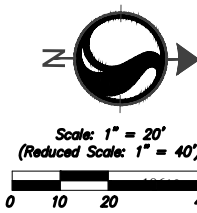
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE

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

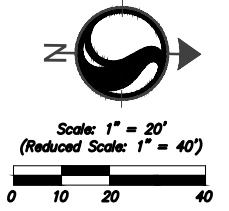
PAVEMENT MARKINGS

PLOTTED BY: MOBILES, RWD DATE: 2/16/2023 5:13 PM  
 CREATOR: 2022-12-14 - 18/2156/MC/121919952/CIVIL DESIGN DRAWING/CIVIL PLANS/15962 PAVEMENT MARKINGS





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



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

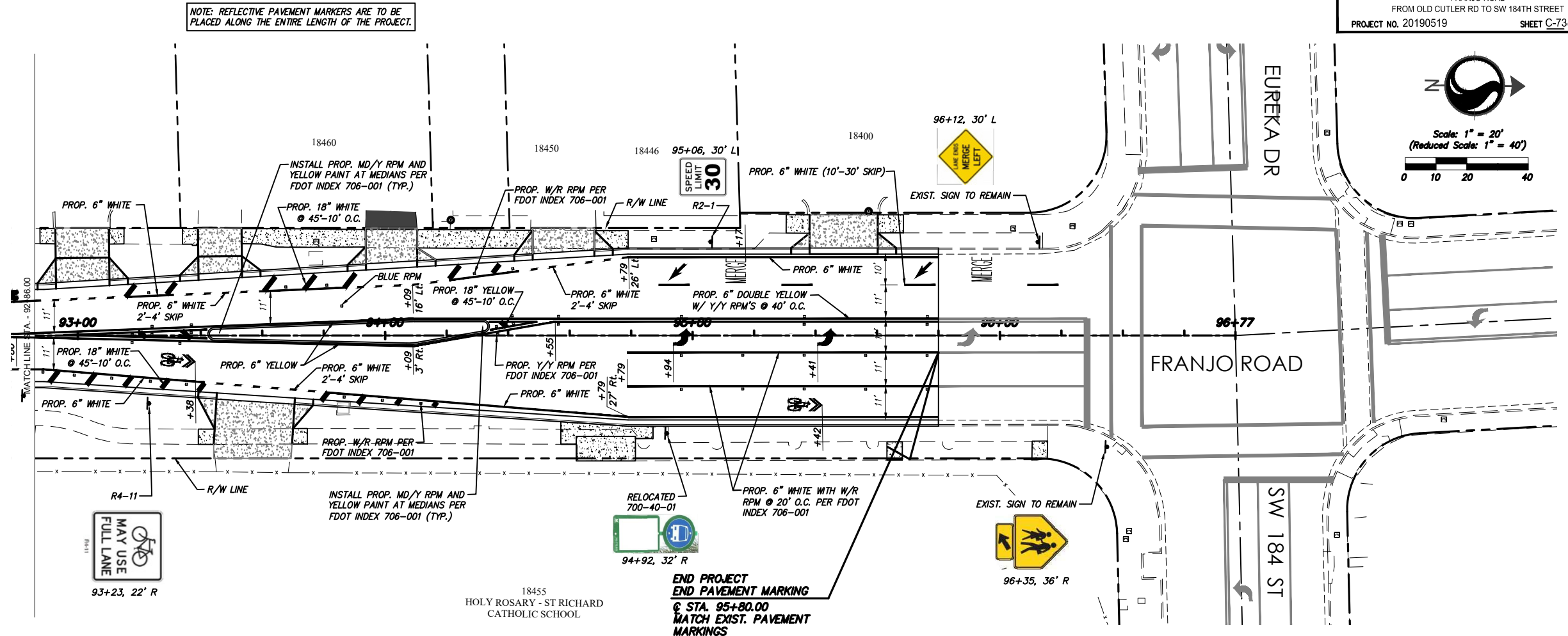
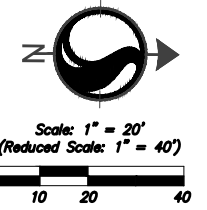


DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHECKED BY			CHECKED BY		
SUPERVISED BY					



PAVEMENT MARKINGS

PLOTTED BY: MOBILES, ROD DATE: 2/16/2023 5:13 PM  
 CREATOR: 2022-12-14 - \\A2156\ACTIVE\215619952\CIVIL\DESIGN\DRAWING\CIVIL\DESIGN\PAVEMENT MARKINGS.DWG



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

**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 BOOK.
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).

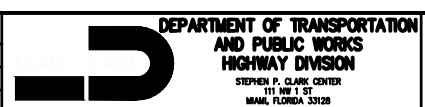
**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

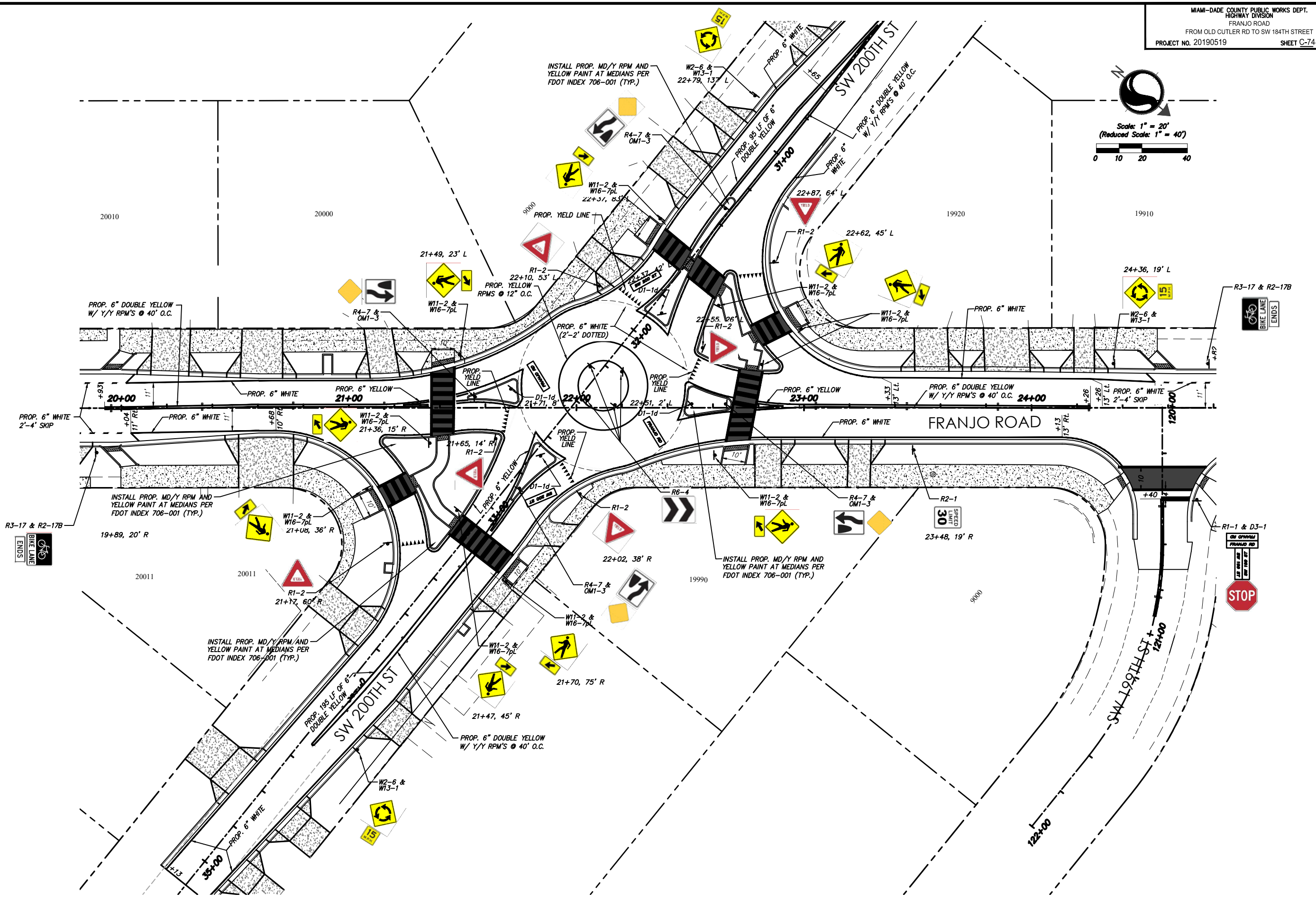
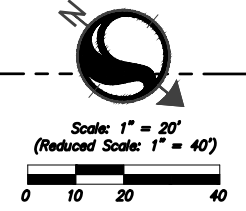
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHECKED BY			CHECKED BY		
SUPERVISED BY					



**PAVEMENT MARKINGS**

PLOTTED BY: MOBILES, RPD, DATE: 2/16/2023 5:14 PM  
 CREATED: 2022-12-14 - 10:21:56 AM (TIME: 21:56:52) CIVIL DESIGN DRAWING: CIVIL PLANS\15952\_PAVEMENT MARKINGS.DWG



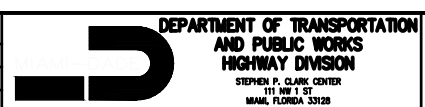


REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



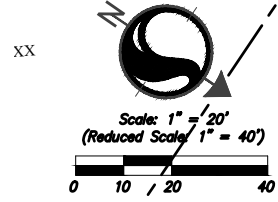
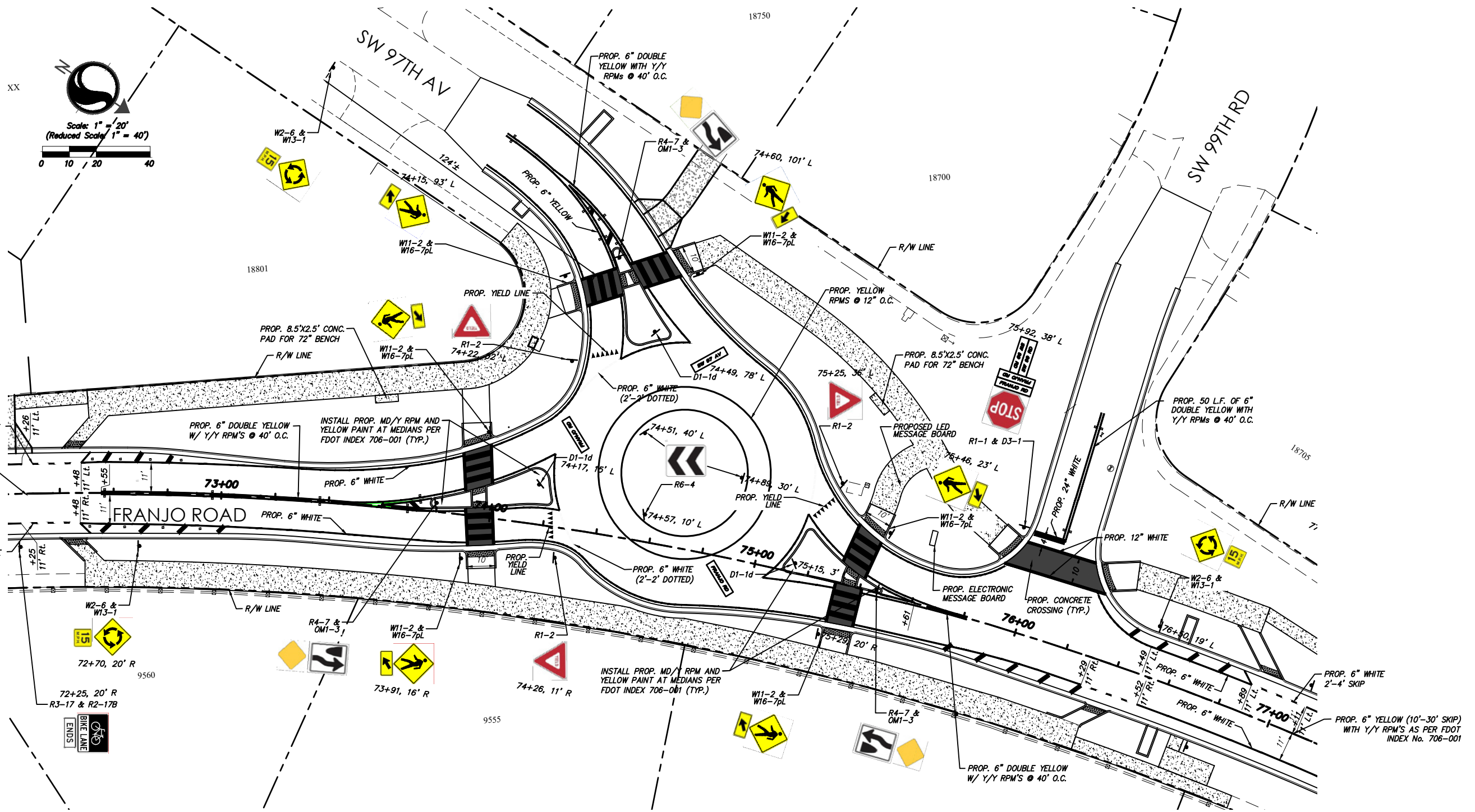
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE



PAVEMENT MARKINGS

PLOTTED BY: MOBILES, RPD, DATE: 2/16/2023, 5:14 PM  
 CREATED: 2023-12-14 - 10:21:56 AM, FILE: 21919952, CIVIL DESIGN DRAWING, CIVIL PLANS\19952\_PAVEMENT MARKINGS.DWG



PLOTTED BY: MOBILES, ROD, DATE: 2/16/2023, 5:14 PM  
 CREATED: 2022-12-14 - 10:21:56 AM, PROJECT: 20190519, CIVIL DESIGN DRAWING: CIVIL PLANS/15952, PAVEMENT MARKINGS/52

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



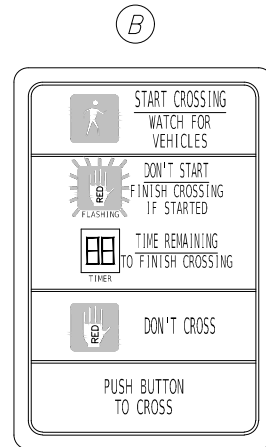
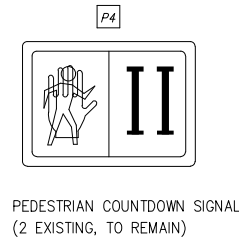
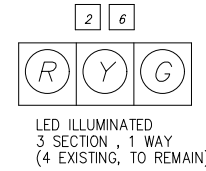
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHECKED BY	CMH	07/29/2020	CHECKED BY	CMH	07/29/2020
SUPERVISED BY:					

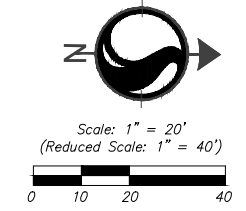
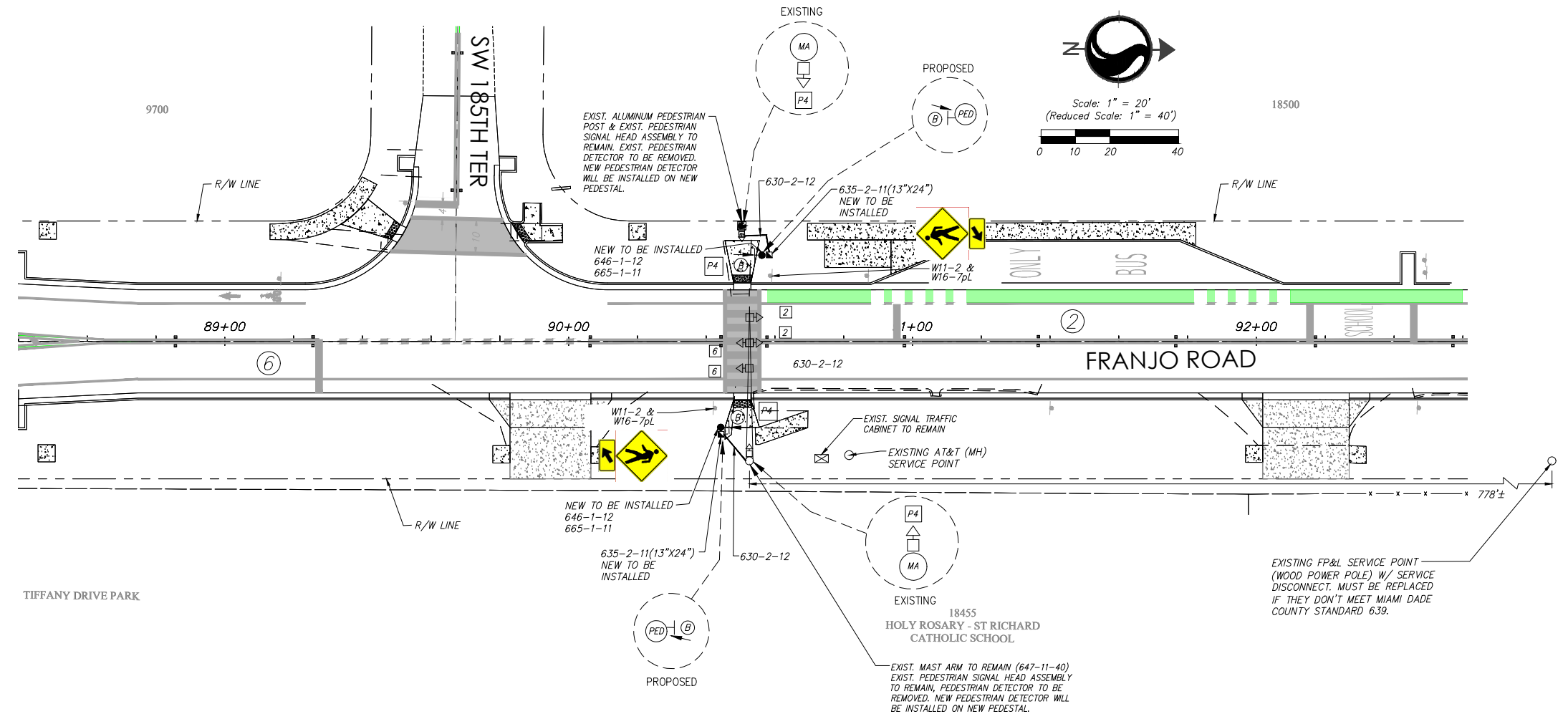


PAVEMENT MARKINGS

DETAIL OF SIGNAL HEADS



R10-3N  
TO BE INCLUDED IN THE COST  
OF ITEM NO. 665-11  
(2 REQ'D)



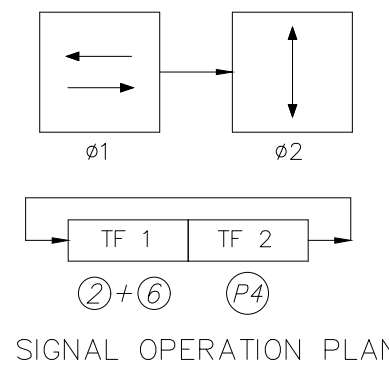
CONTROLLER OPERATIONS

- MAJOR STREET IS : FRANJO RD, PHASE 1 (MOVEMENTS 2 & 6 )  
MINOR STREET: PEDESTRIAN MOVEMENT PHASE 2 (P4)
- 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

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	-	-
FUNCTION					P2	P4	P6		
	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

PLOTTED BY: MORALES, ROD. DATE: 2/17/2023 2:23 PM  
CREATED: 2023-02-17 - 11:21:56 AM (ACTIVE) 219619892 (CIVIL DESIGN DRAWING) CIVIL PLANS\15952 SIGNALIZATION.DWG

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CMH	CMH	07/29/2020	RM	RM	07/29/2020
CHECKED BY	CMH		CHECKED BY	CMH	
SUPERVISED BY:					

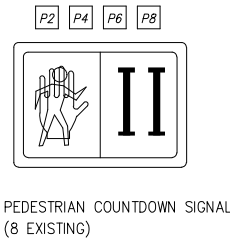
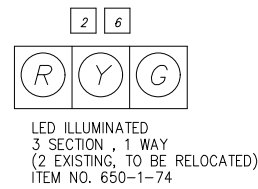
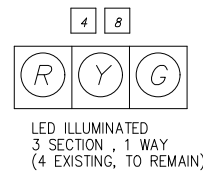
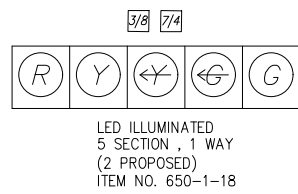


DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
HIGHWAY DIVISION  
STEPHEN P. CLARK, CENTER  
111 NW 1 ST  
MIAMI, FLORIDA 33128

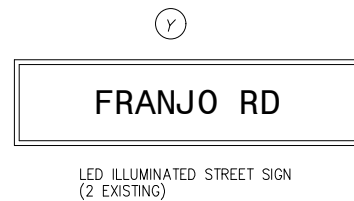
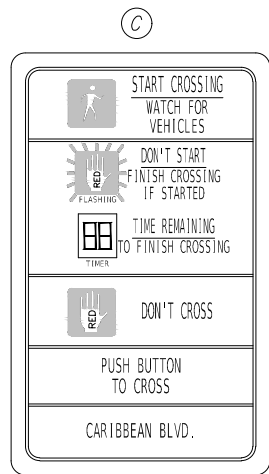
**SIGNALIZATION PLANS**



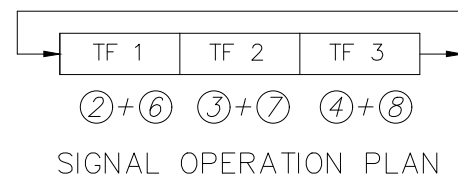
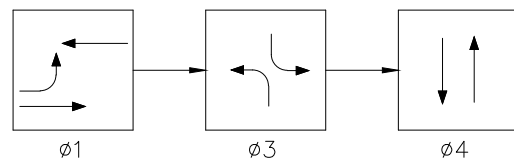
DETAIL OF SIGNAL HEADS



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

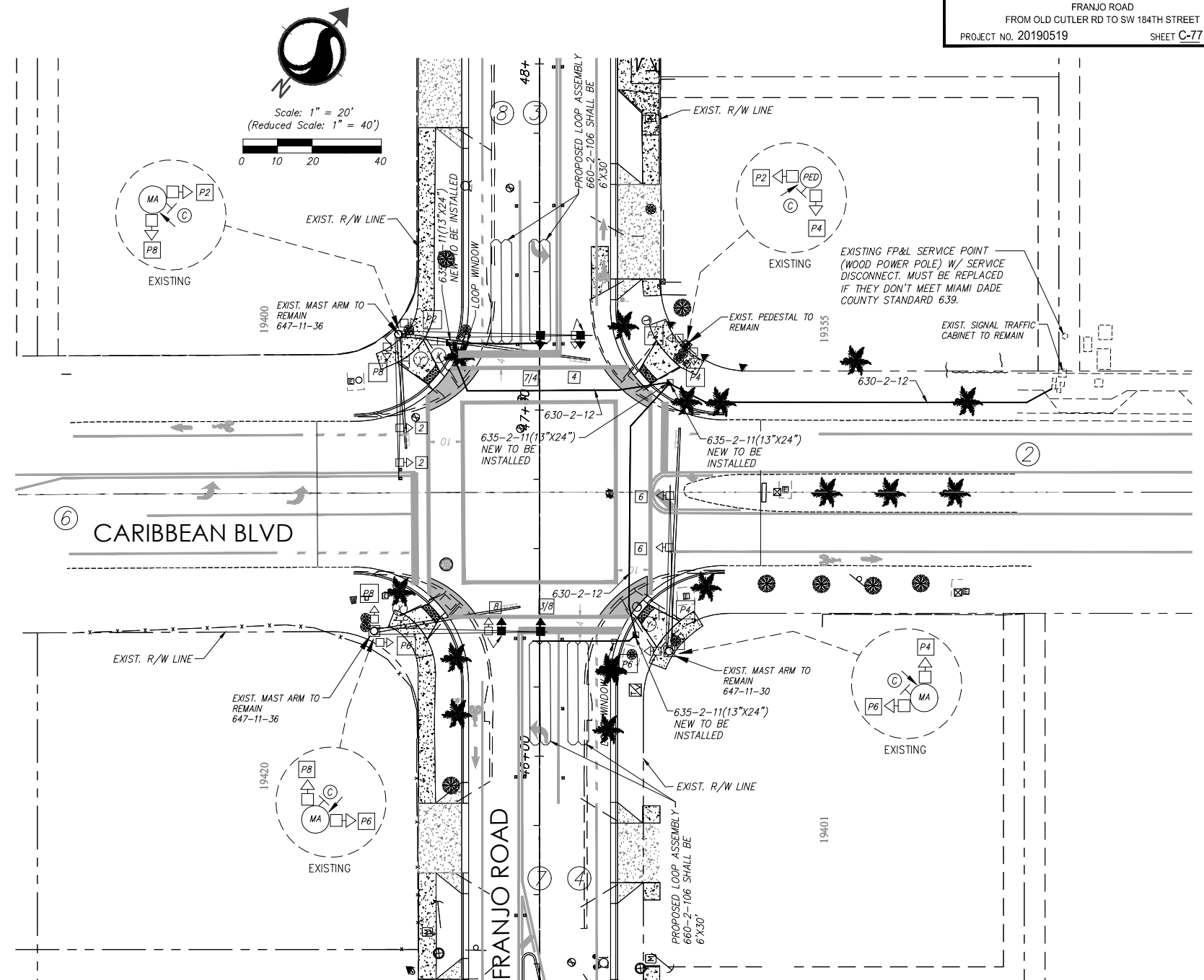


DETECTORS FOR LOOPS		
MVMT NO.	NO. OF LOOPS	NO. OF DETS.
L-3	1	1
L-4	1	1
L-7	1	1
L-8	1	1



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
FUNCTION	PED. CROSSING DISTANCE	-	57	-	65	-	57	-	64
	PEDESTRIAN WALK	-	7	-	7	-	7	-	7
	PEDESTRIAN CLEARANCE	-	14	-	16	-	14	-	16
				P2		P4		P6	

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



CONTROLLER OPERATIONS

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

NOTES:

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

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

PLOTTED BY: MORALES, ROD. DATE: 2/17/2023 2:24 PM  
CREATED: 2023-02-17 - 11:21:56 AM (V:\2156\ACTIVE\215619852\CIVIL\DESIGN\DRAWING\CIVIL PLANS\19852\_SIGNALIZATION.DWG)

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



The Contractor shall verify and be responsible for all dimensions. DO NOT scale this 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.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CMH	CMH	07/29/2020	RM	RM	07/29/2020
CHECKED BY	CMH		CHECKED BY	CMH	
SUPERVISED BY:					

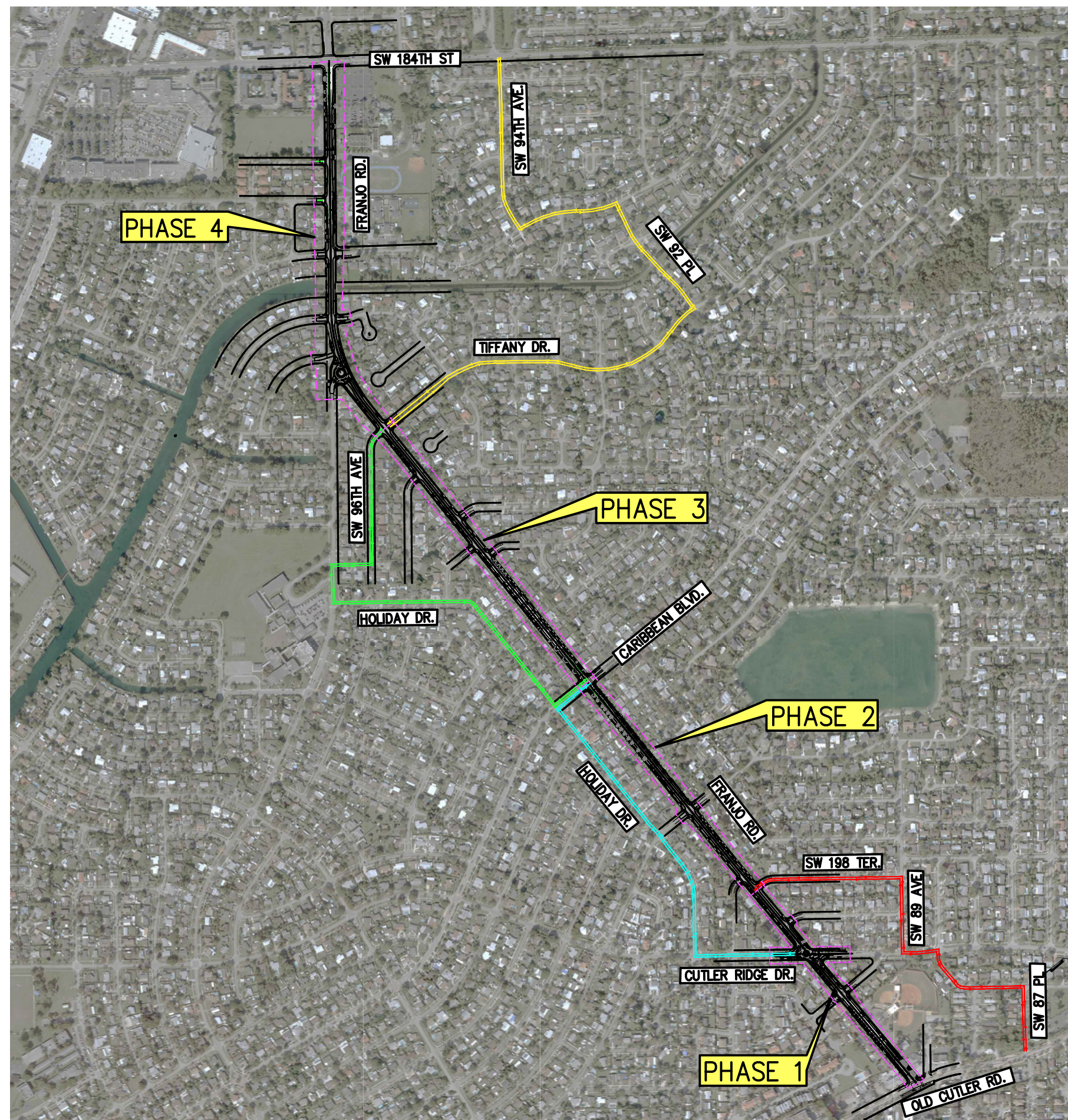
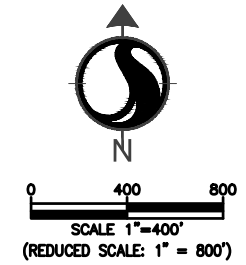


SIGNALIZATION PLANS









**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.



**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.

PLOTTED BY: MORALES, ROD. DATE: 2/16/2023 5:21 PM  
CREATED: 2022-09-27 - N:\2156\MORALE, ROD\DESIGN DRAWING\MO PLAN\15952.MOT.DWG

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	CMH	07/29/2020		MS	07/29/2020
CHECKED BY	NAME	DATE	CHECKED BY	NAME	DATE
	CMH			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



**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 1/4" 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

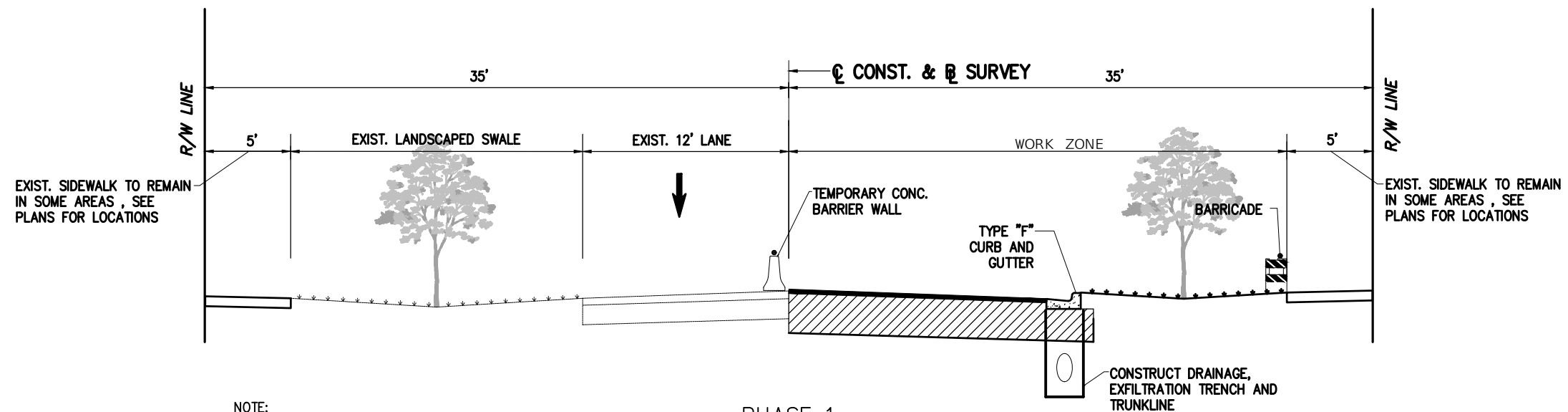


The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

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



MAINTENANCE OF TRAFFIC TYPICAL SECTIONS

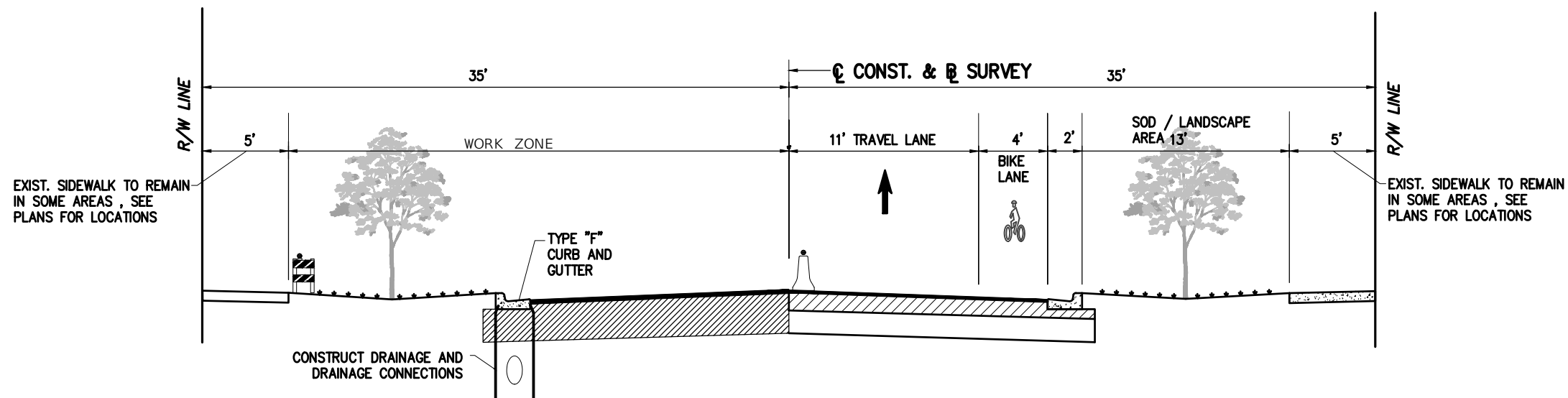


NOTE:  
SEE SHEET C-78 FOR NORTHBOUND TRAFFIC  
DETOUR ROUTE

**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					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



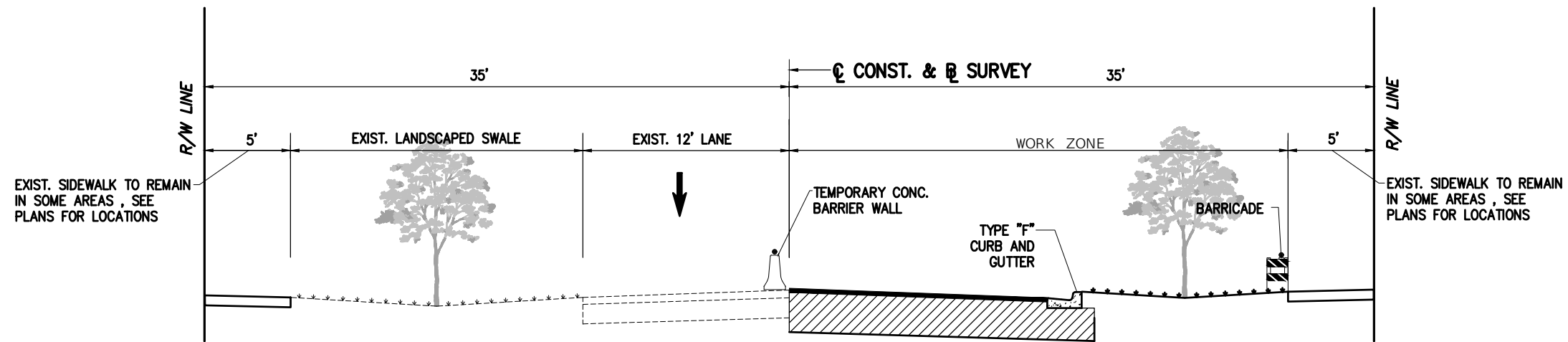
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

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



MAINTENANCE OF TRAFFIC  
TYPICAL SECTIONS



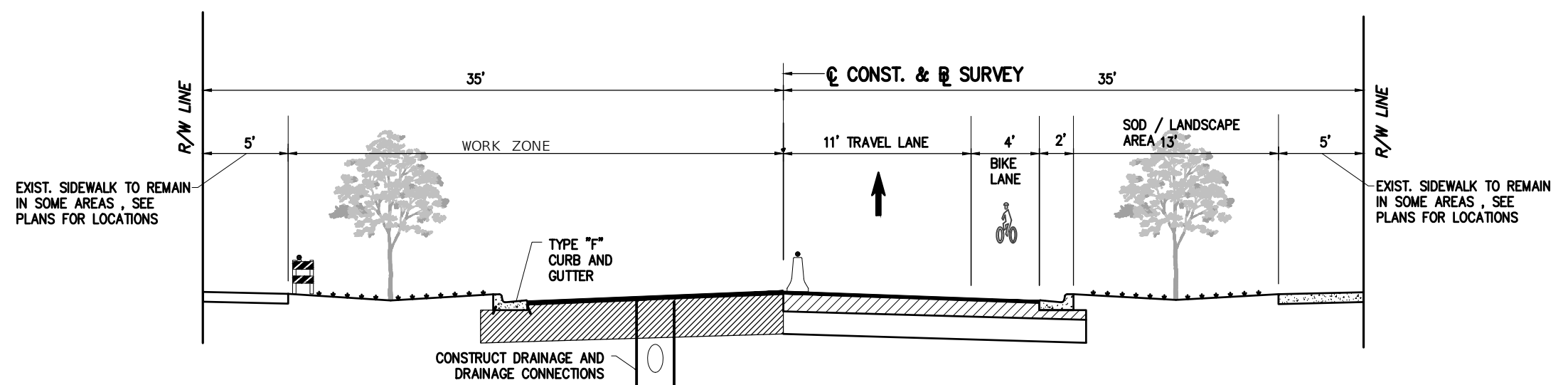


NOTE:  
SEE SHEET C-78 FOR NORTHBOUND TRAFFIC  
DETOUR ROUTE

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

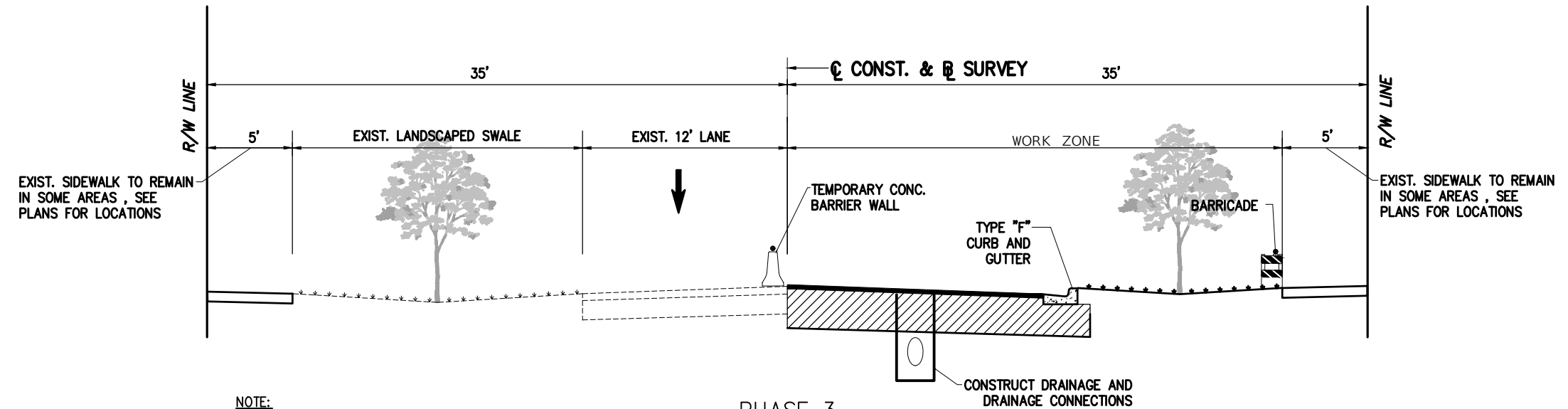
REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY



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



MAINTENANCE OF TRAFFIC  
TYPICAL SECTIONS

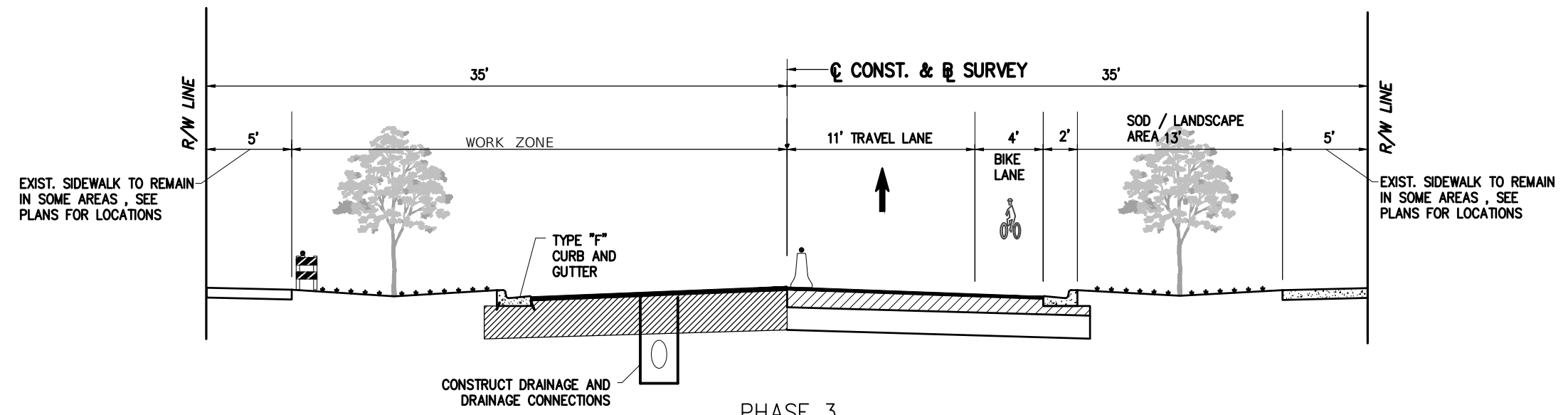


NOTE:  
 SEE SHEET C-78 FOR NORTHBOUND TRAFFIC  
 DETOUR ROUTE

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

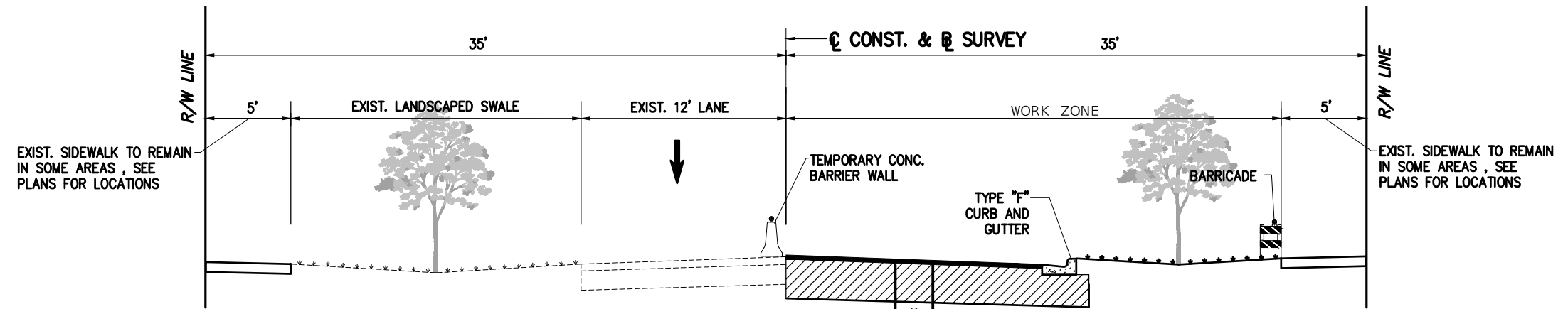
REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY



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



MAINTENANCE OF TRAFFIC  
 TYPICAL SECTIONS

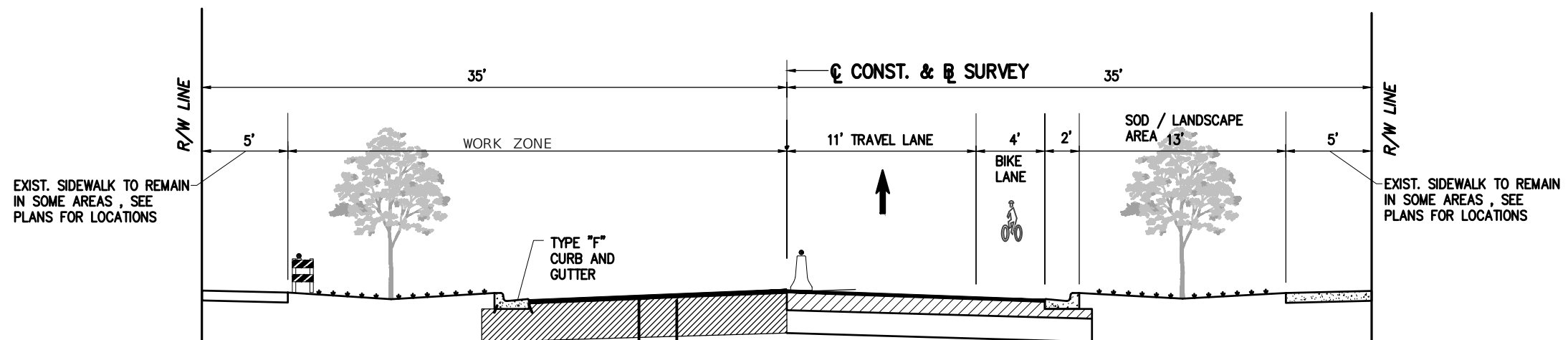


NOTE:  
SEE SHEET C-78 FOR NORTHBOUND TRAFFIC  
DETOUR ROUTE

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 SHOWN 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



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.

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



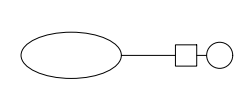
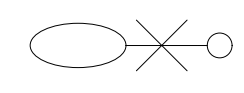
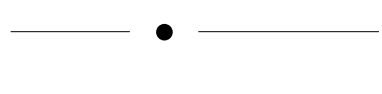



MAINTENANCE OF TRAFFIC  
TYPICAL SECTIONS



**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  
ROUNDBOUT AVERAGE: 0.78fc TO 1.2fc (1.3x TO 2x APPROACH)  
ROUNDBOUT 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.

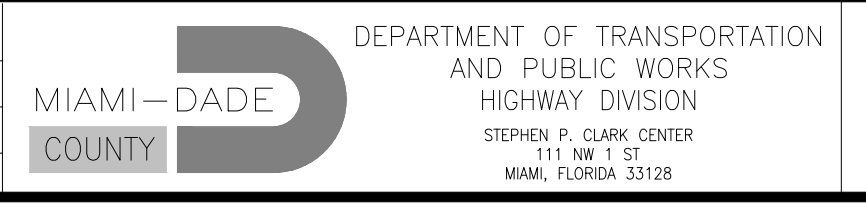
**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - only 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.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	BB	3/26/2021			
CHECKED BY	JIN		CHECKED BY		
SUPERVISED BY:					



**LEGEND, DESIGN CRITERIA, & GENERAL NOTES**

PLOTTED BY: UNEXER, FRANCOE DATE: 12/12/2022 2:41 PM  
 CREATED: 2022-12-06 - \\US0231-PRSS01\WORKGROUP\215615952\ELECTRICAL\DRAWING\01-002\_POLE-09R-09R-DA.DWG



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"				

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - only 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.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHECKED BY	BB	3/26/2021	CHECKED BY		
SUPERVISED BY	JIN				



POLE DATA

TABULATION OF LIGHTING QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBER		E-04		E-05		E-06		E-07		E-08		E-09		E-10		E-11		GRAND TOTAL	
			ORIG	FINAL	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:

- 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.
- 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.
- PAY ITEM 639-1-121 INCLUDES THE COST OF FURNISHING AND INSTALLING NEW SERVICE. INCLUDES THE COST ESTABLISHING NEW SERVICE WITH LOCAL ELECTRIC UTILITY.
- 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.
- 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.
- 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 FOOT 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).
- 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
- 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.
- 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)
- 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 UBICQUA 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.
- PAY ITEM NO. 715-521-140 INDICATES THE COST OF FURNISHING 20% ADDITIONAL SPARE POLE ASSEMBLIES TO TSS.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



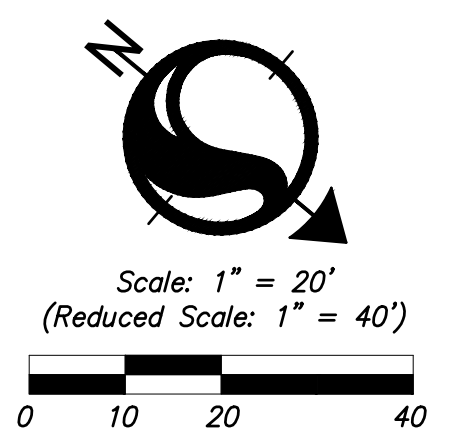
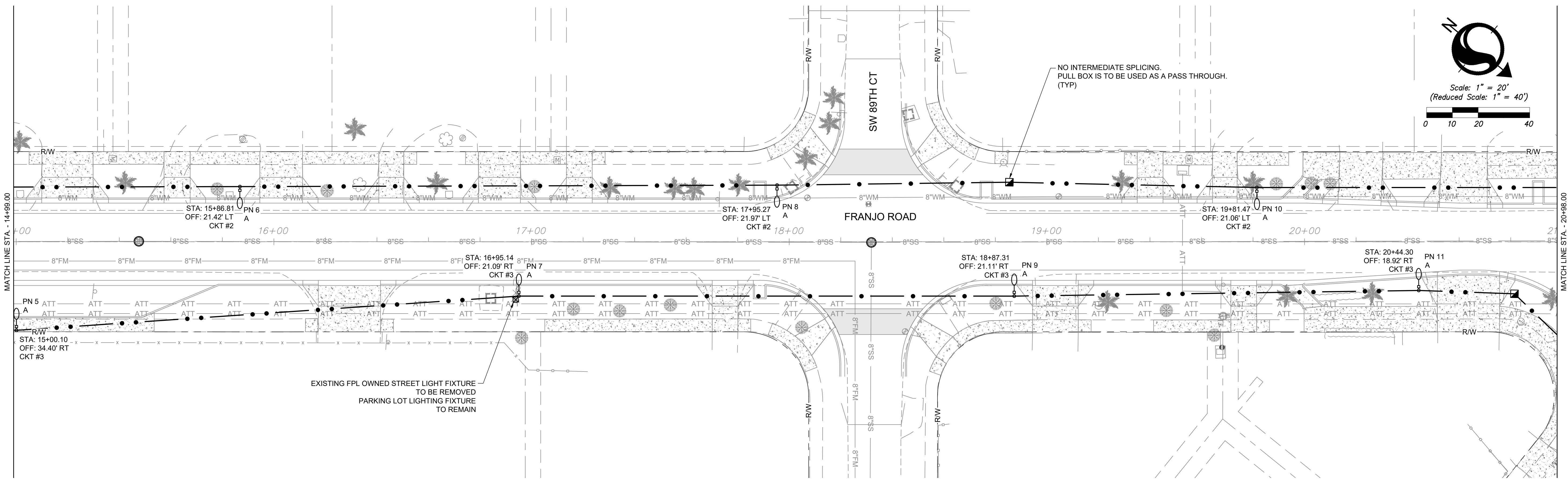
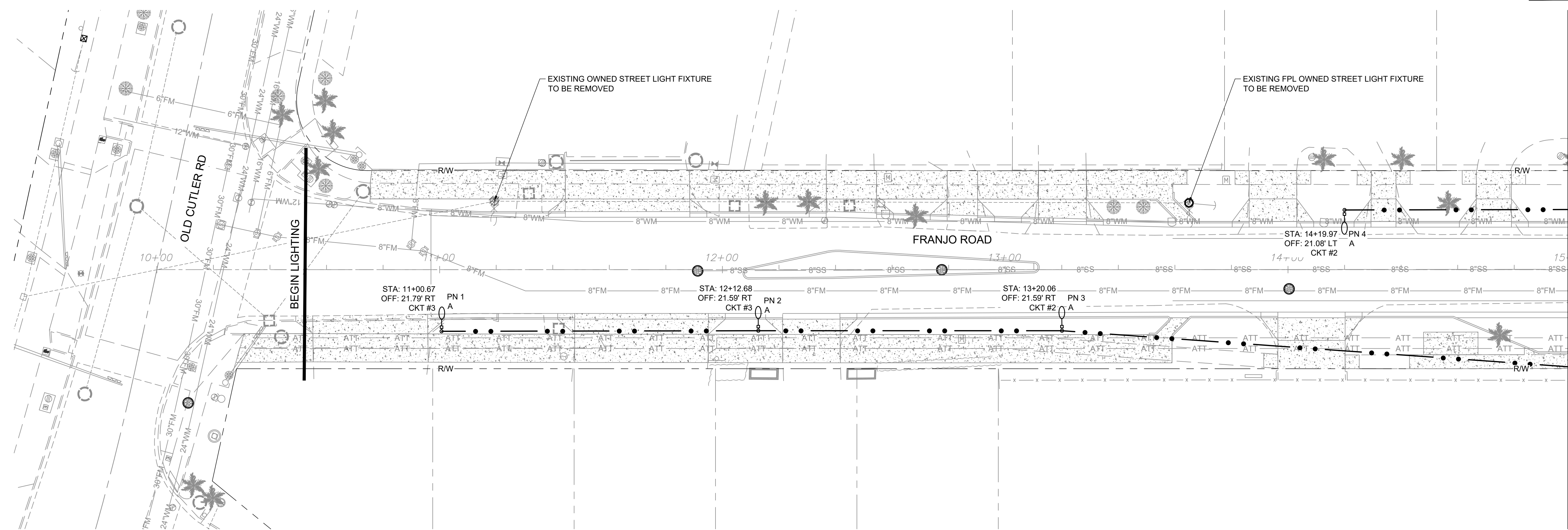
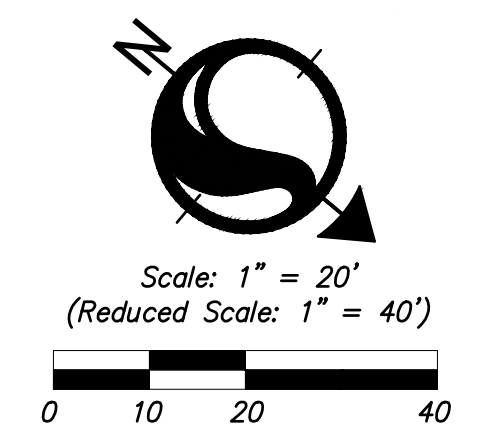
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - only errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
BB		3/26/2021			
CHECKED BY	JIN		CHECKED BY		
SUPERVISED BY:					



TABULATION OF LIGHTING QUANTITIES





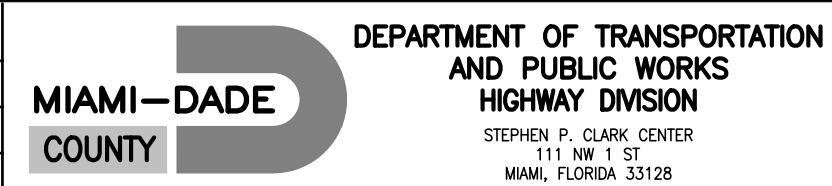
REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - only 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.

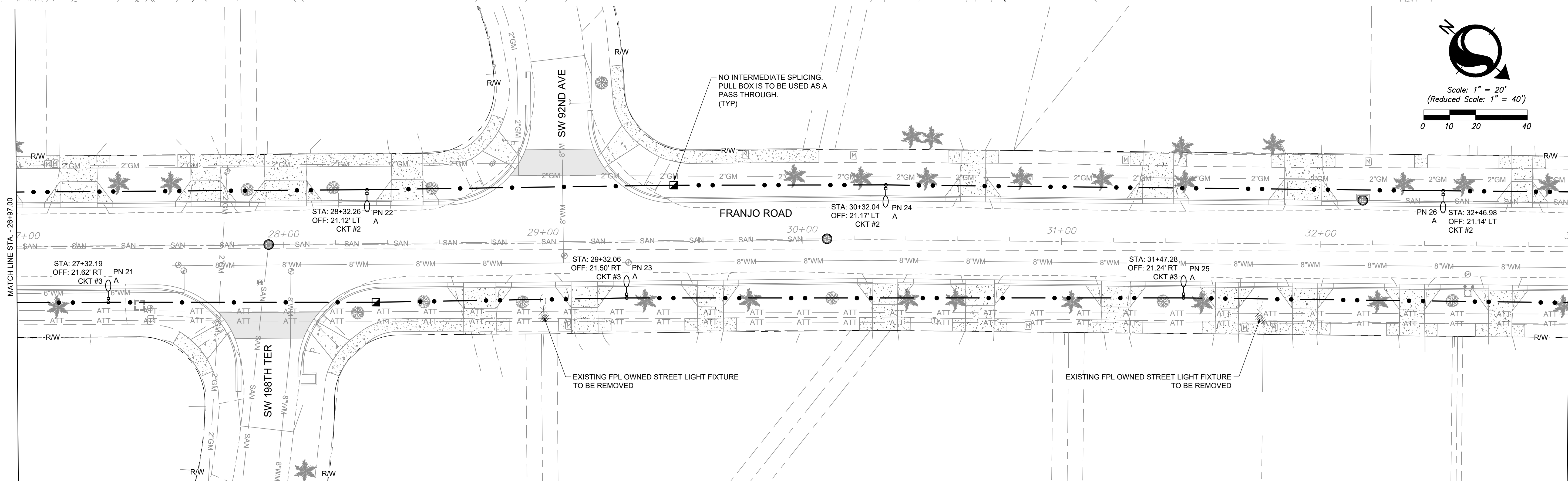
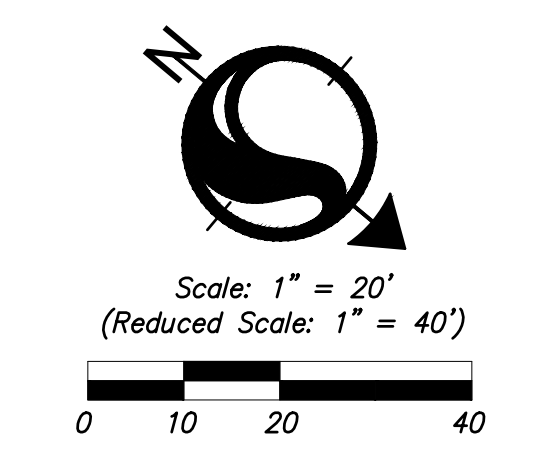
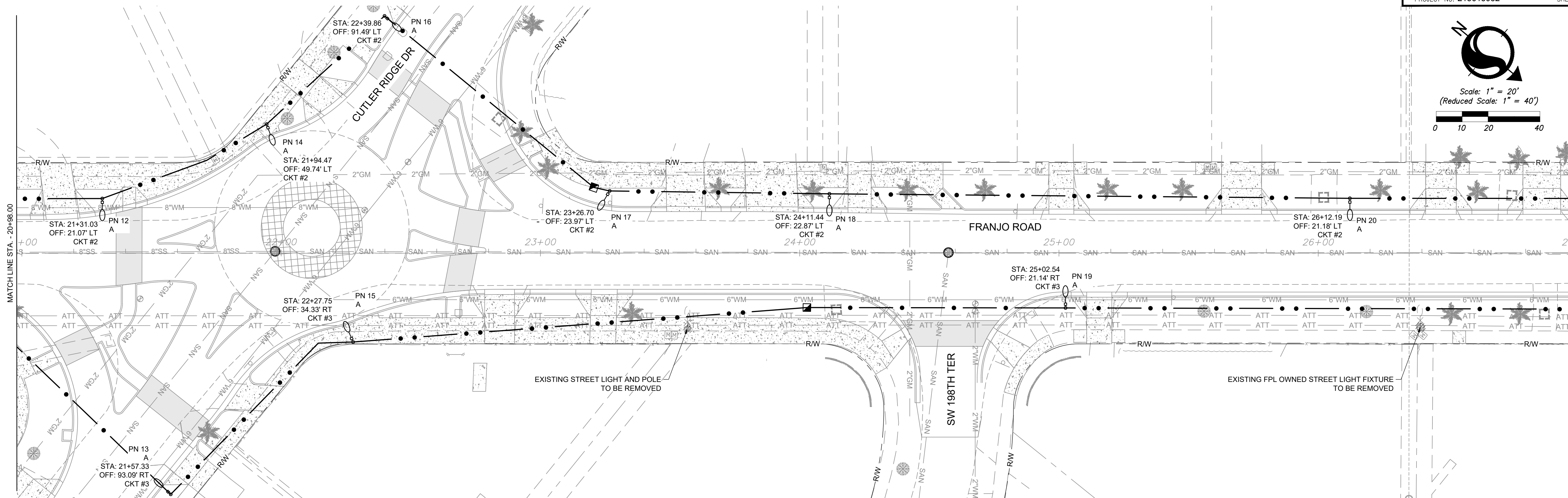
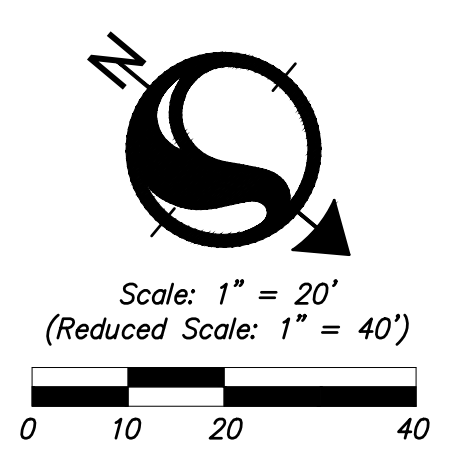
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	BB	3/26/2021			
CHECKED BY	JIN		CHECKED BY		
SUPERVISED BY:					



STREET LIGHTING PLAN 1

PLOTTED BY: LINEAR, FRANJO DATE: 12/12/2022 2:42 PM  
 CREATED: 2022-12-09 - \\US0231-PRSS01\WORKGROUP\215615952\ELECTRICAL\DRAWING\04-01\_STRF-UTDRWG





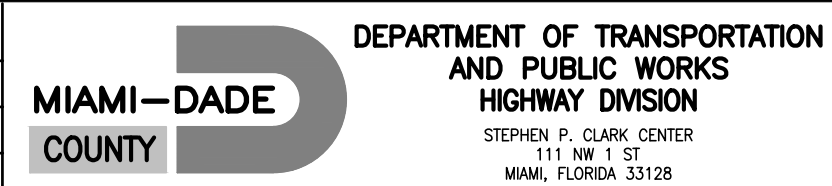
REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - only 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.

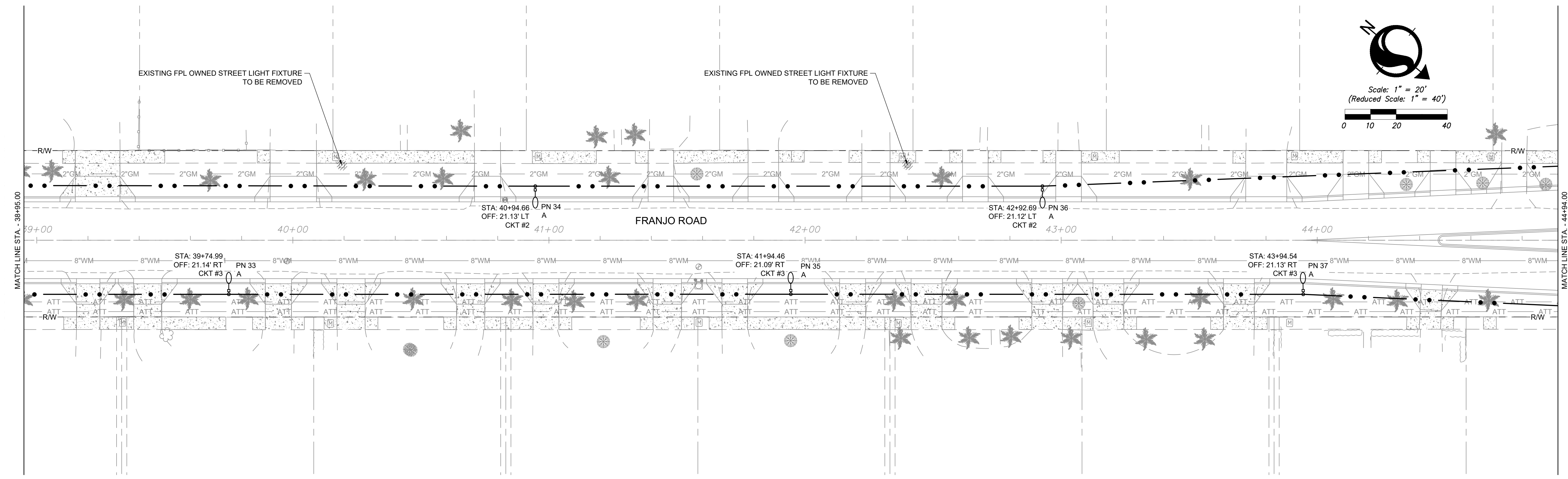
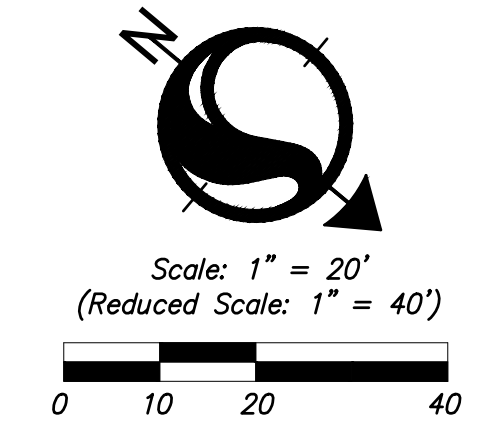
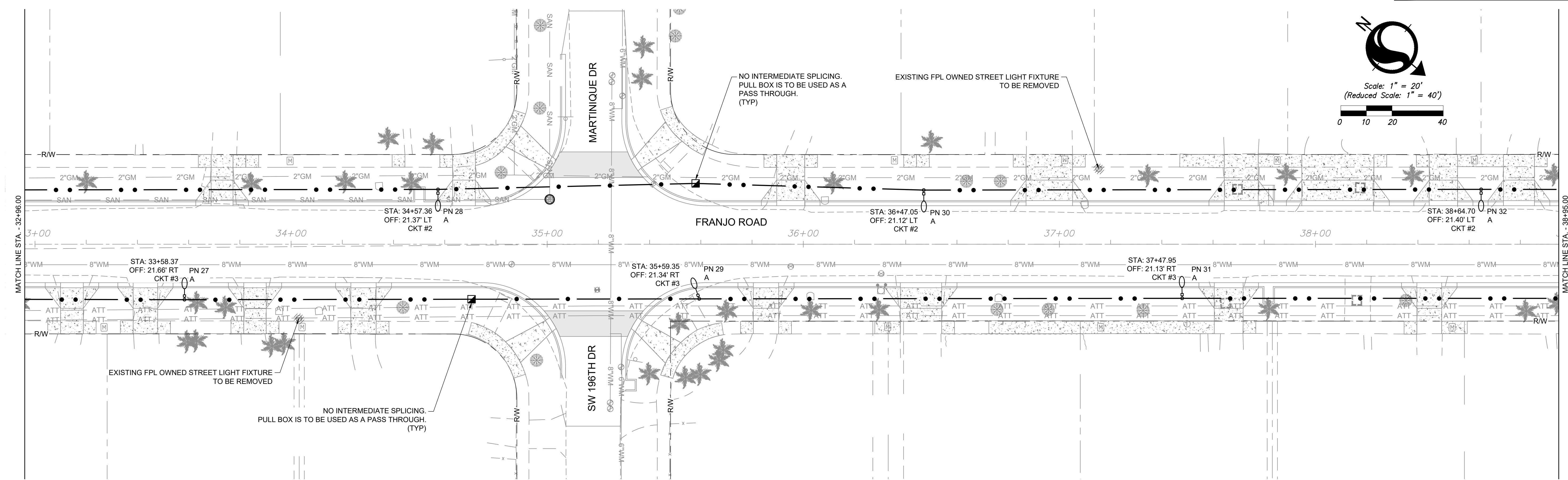
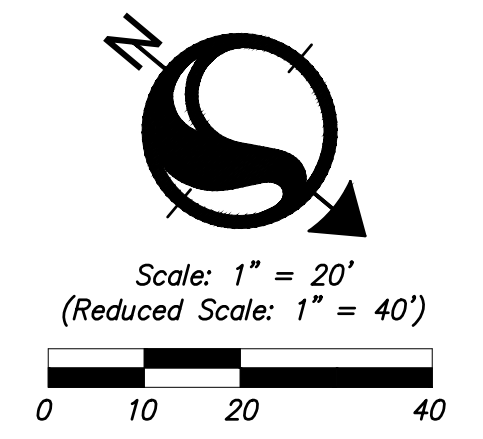
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	BB	3/26/2021			
CHECKED BY	JIN		CHECKED BY		
SUPERVISED BY:					



STREET LIGHTING PLAN 2

PLOTTED BY: LINEAR, FRANCO DATE: 12/12/2022 2:42 PM  
 CREATED: 2022-12-09 - \\US0231-PRSS01\WORKGROUP\215615952\ELECTRICAL\DRAWING\04-011\_STR-UTCDWG





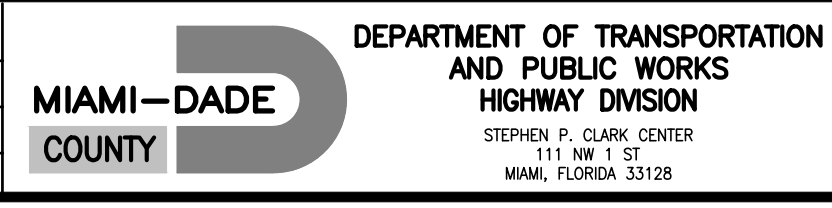
REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - only 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.

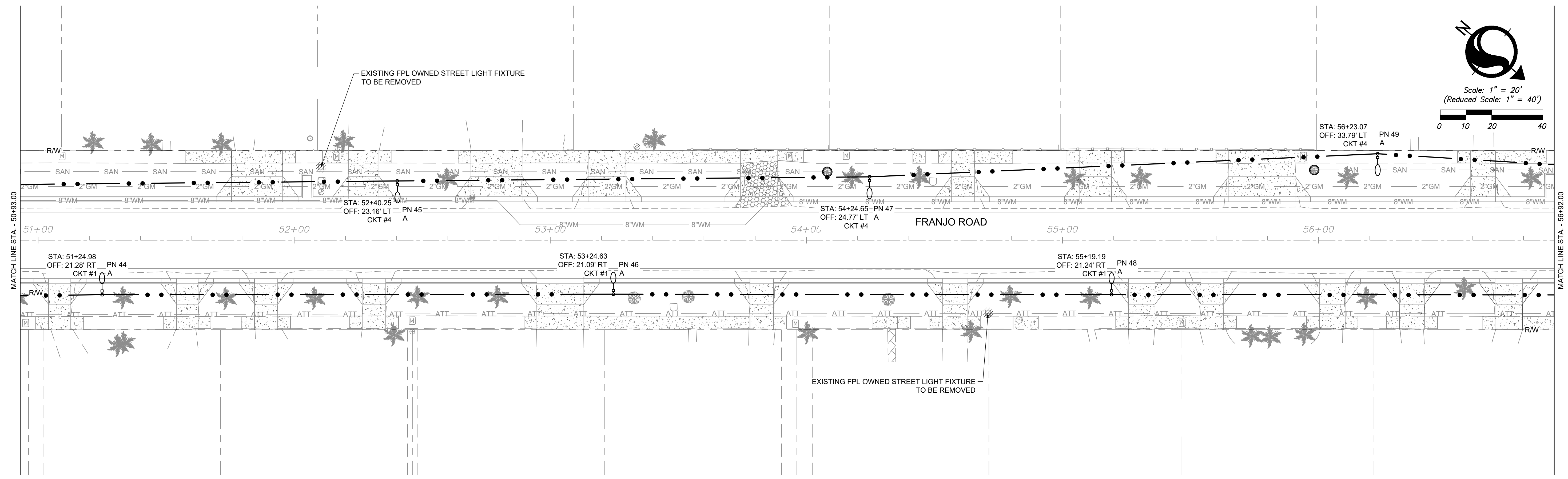
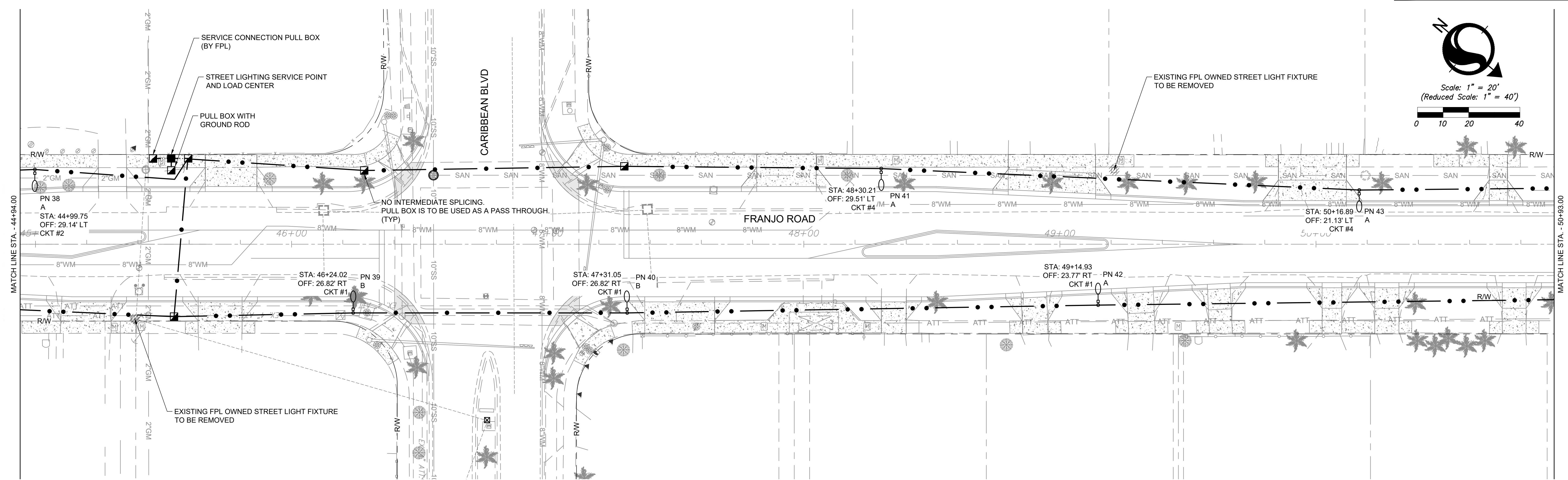
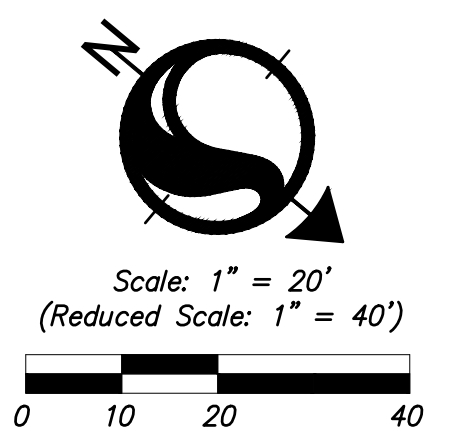
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	BB	3/26/2021			
CHECKED BY	JIN		CHECKED BY		
SUPERVISED BY:					



STREET LIGHTING PLAN 3

PLOTTED BY: LINEER, FRANJO DATE: 12/12/2022 2:43 PM  
 CREATED: 2022-12-09 - \\US0231-PRSS01\WORKGROUP\215615952\ELECTRICAL\DRAWING\04-01\_STP-UTDRWG





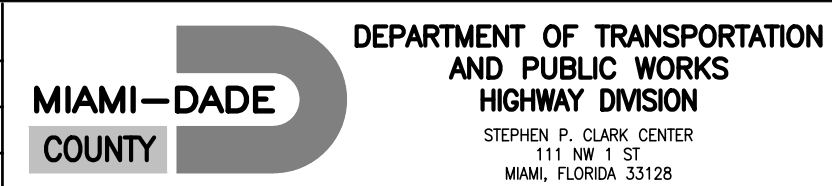
REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - only 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.

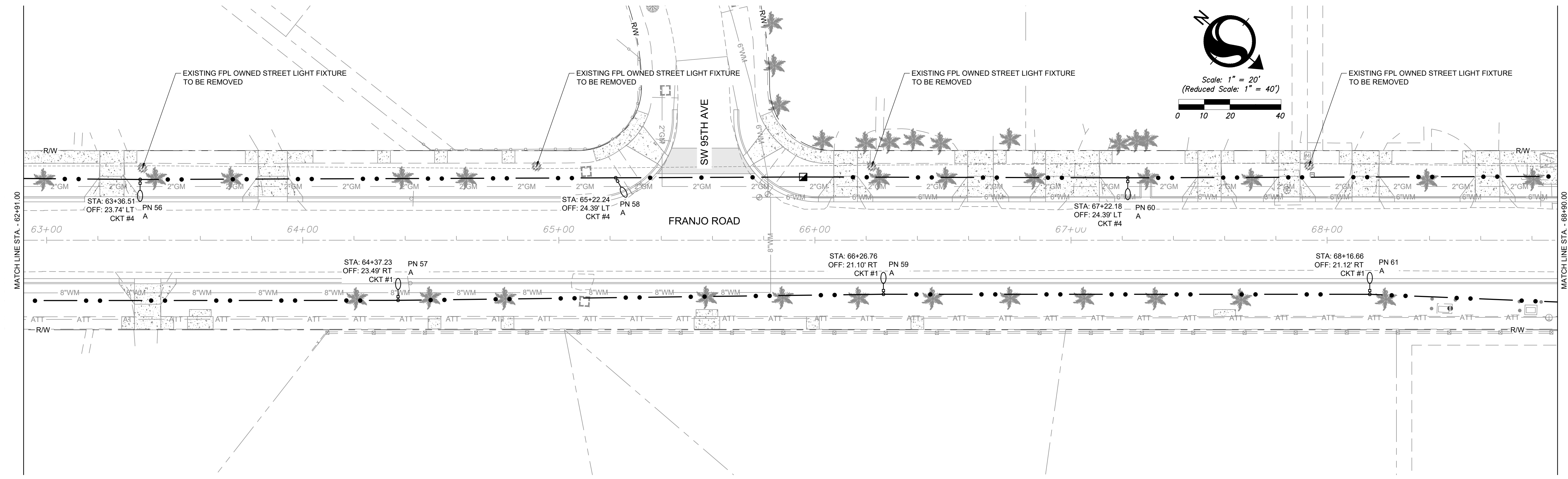
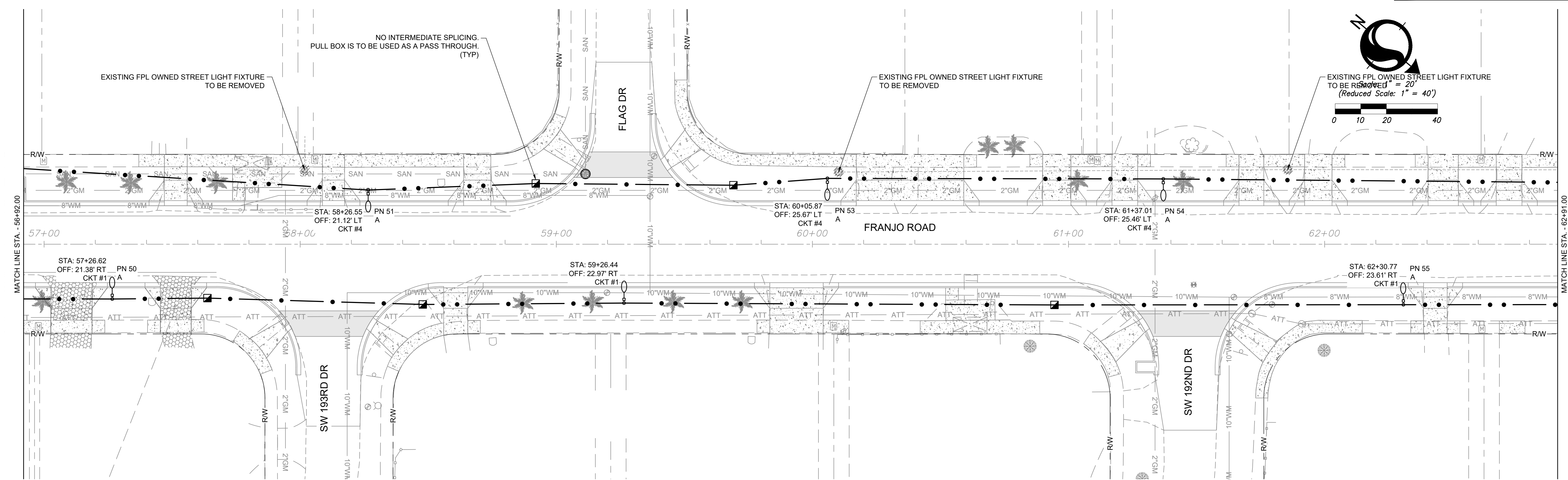
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	BB	3/26/2021			
CHECKED BY	JIN		CHECKED BY		
SUPERVISED BY:					



STREET LIGHTING PLAN 4

PLOTTED BY: LINEAR, FRANJO DATE: 12/12/2022 2:43 PM  
 CREATED: 2022-12-09 - \\US0231-PRSS01\WORKGROUP\215615952\ELECTRICAL\DRAWING\04-01\_STLF-UTCRING





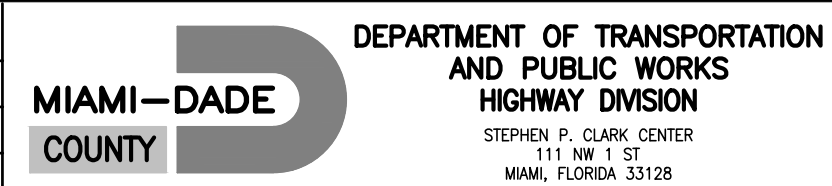
REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - only 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.

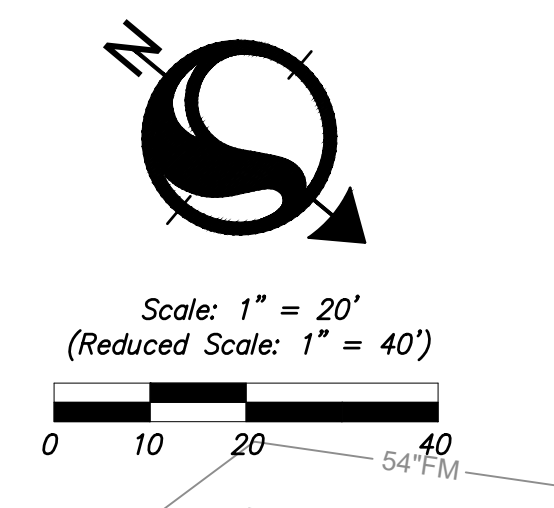
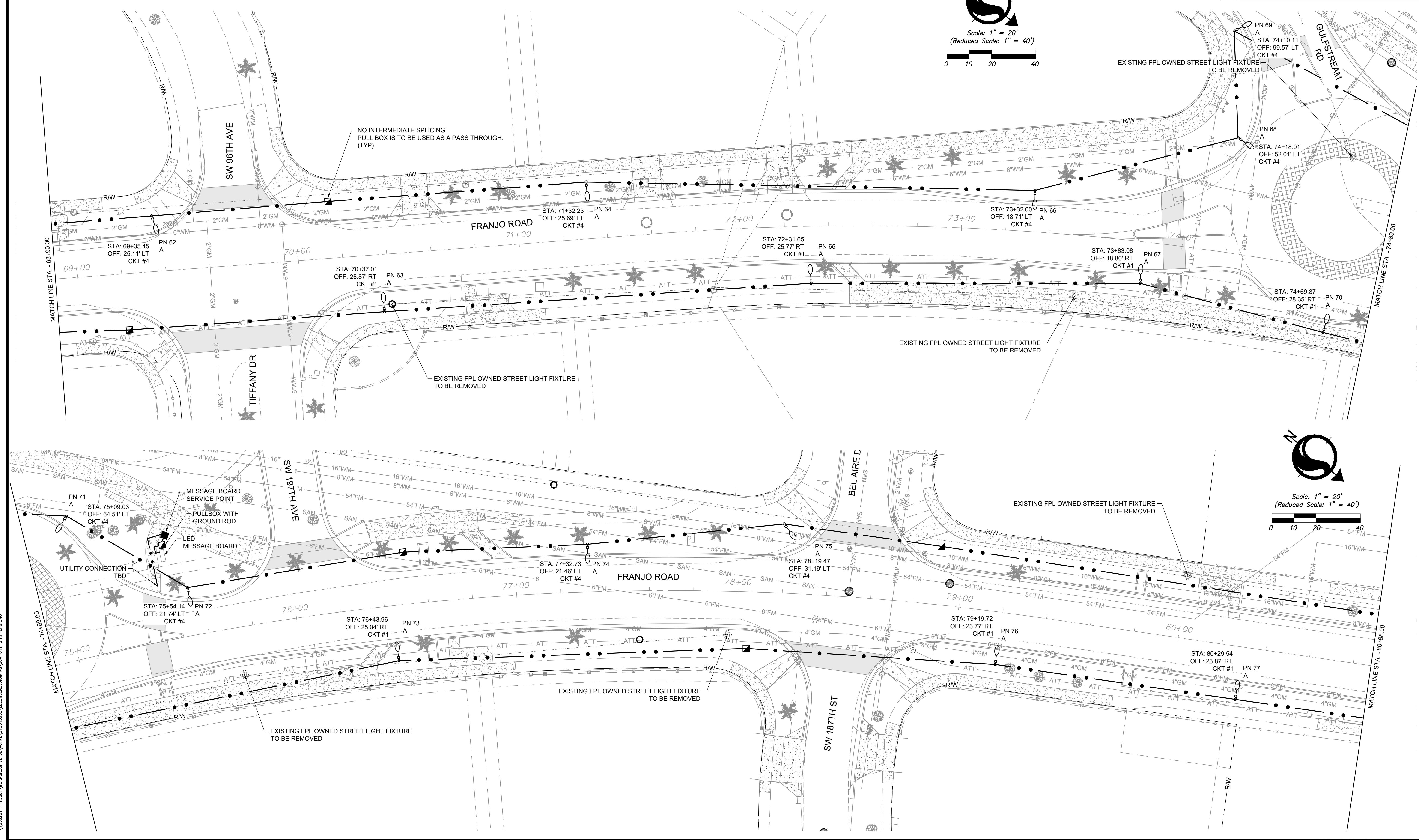
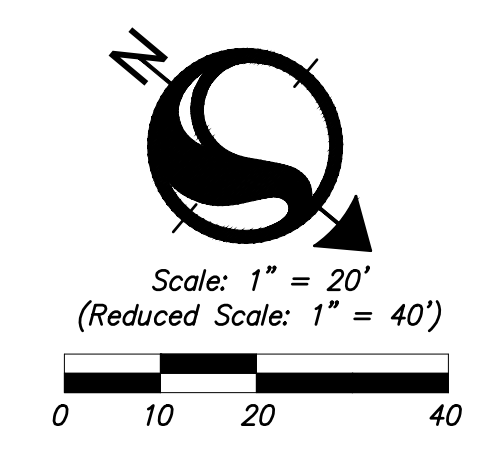
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
BB	BB	3/26/2021			
CHECKED BY	JIN		CHECKED BY		
SUPERVISED BY:					



STREET LIGHTING PLAN 5

PLOTTED BY: LINEAR, FRANCO DATE: 12/12/2022 2:43 PM  
CREATED: 2022-12-09 - \\US0231-PRFSS01\WORKGROUP\215615952\ELECTRICAL\DRAWING\04-01\_SLP-UTR.DWG





PLOTTED BY: LINEAR, FRANJO.DWG, 12/12/2022, 2:43 PM  
 CREATED: 2022-12-09 - \\US0231-PPFSS01\WORKGROUP\215615952\ELECTRICAL\DRAWING\04-01\_STRF-UTRCDWG

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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

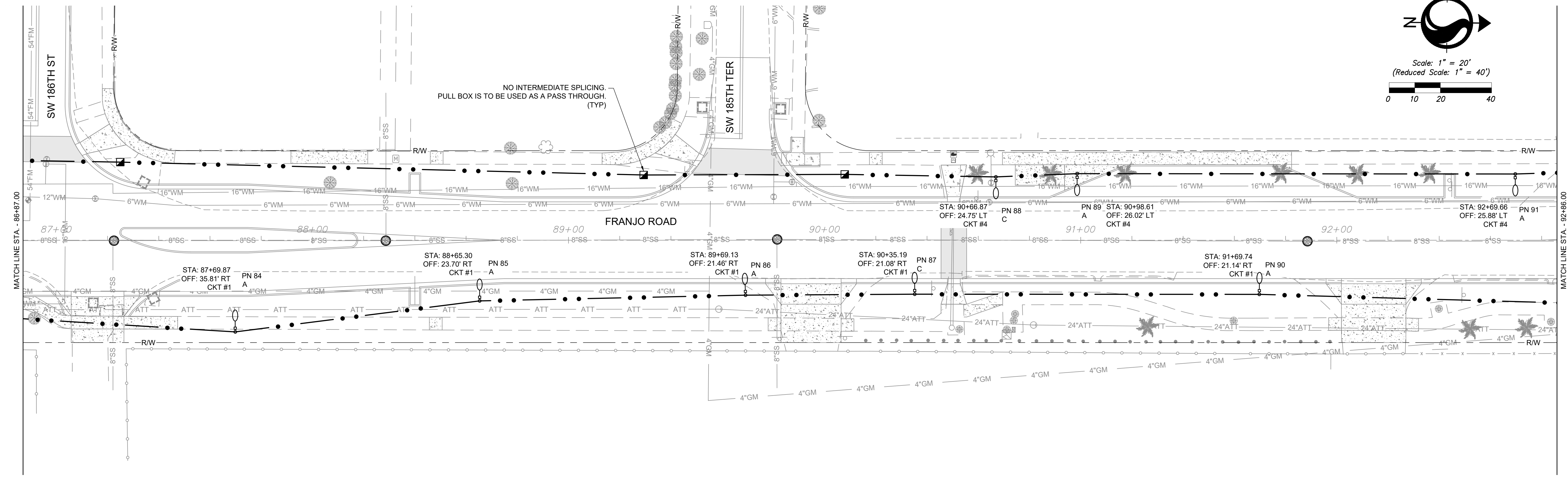
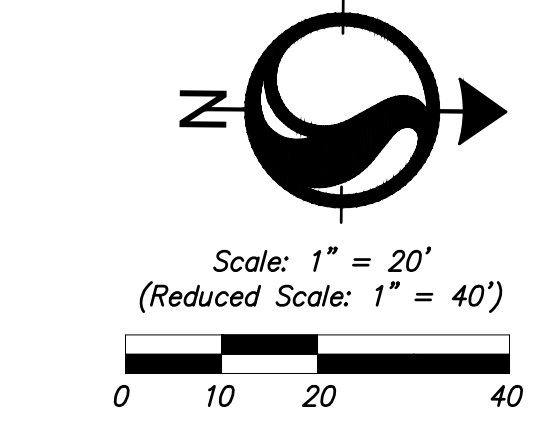
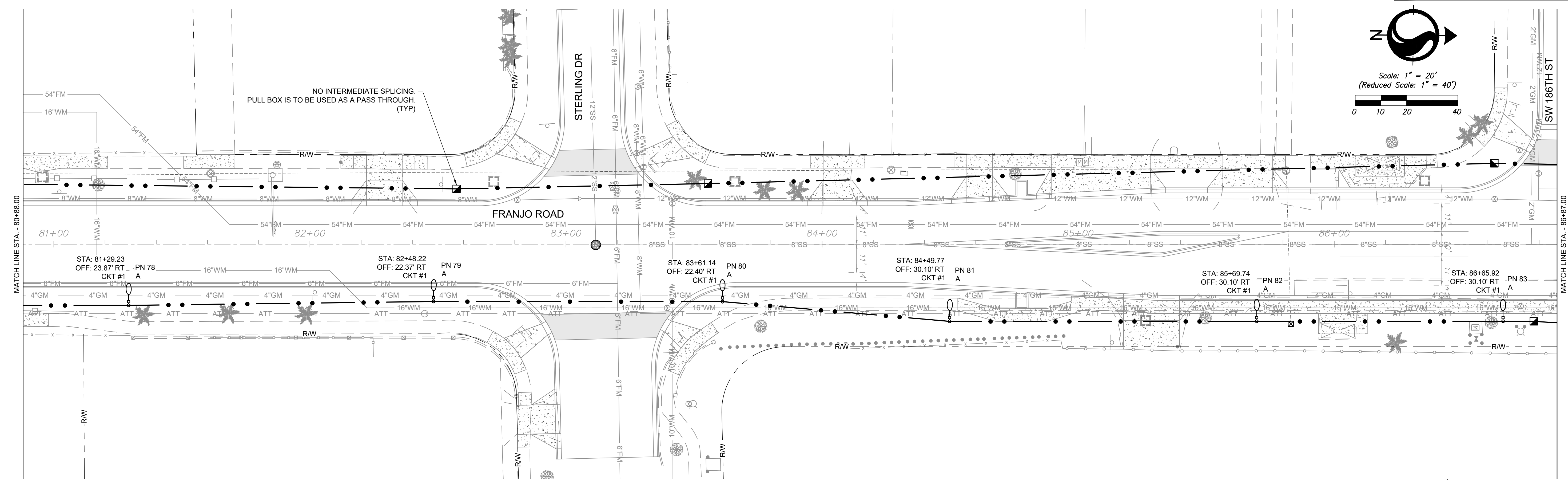
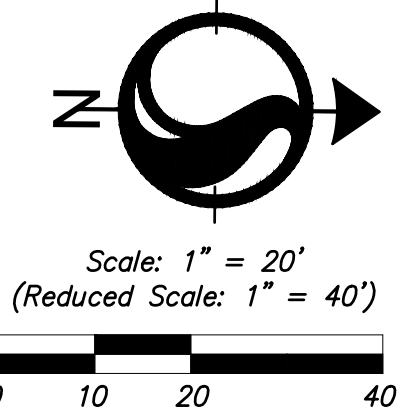
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - only errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
BB	BB	3/26/2021			
CHECKED BY	JIN		CHECKED BY		
SUPERVISED BY:					

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

**STREET LIGHTING PLAN 6**





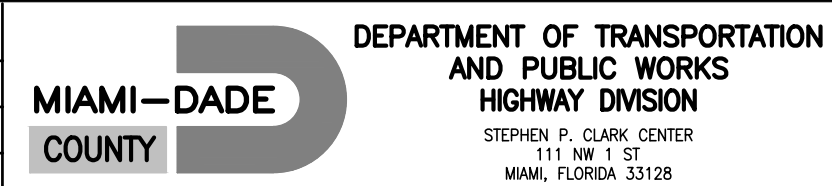
REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - only 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.

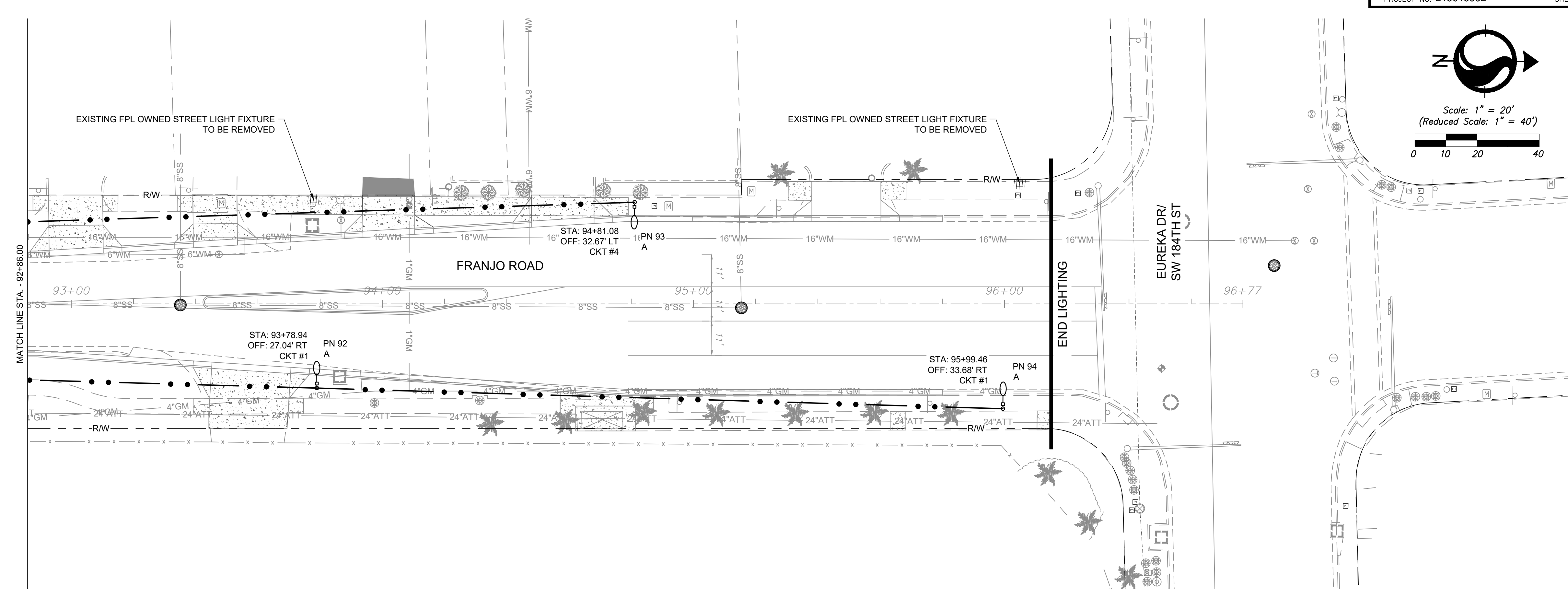
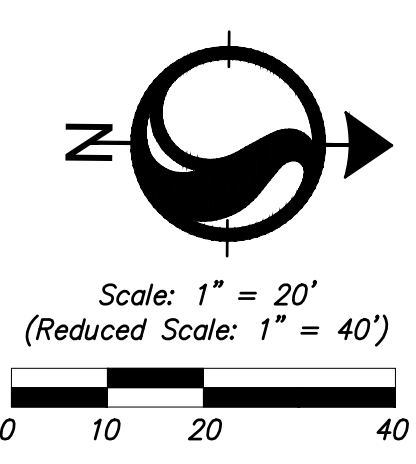
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	BB	3/26/2021			
CHECKED BY	JIN		CHECKED BY		
SUPERVISED BY:					



STREET LIGHTING PLAN 7

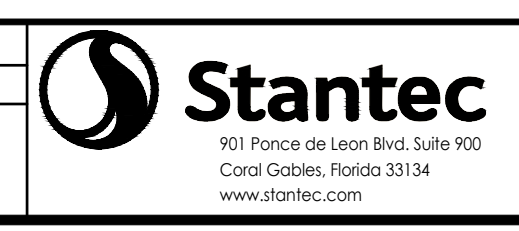
PLOTTED BY: LINEAR, FRANJO DATE: 12/12/2022 2:44 PM  
 CREATED: 2022-12-09 - \\US0231-PRSS01\WORKGROUP\215615952\ELECTRICAL\DRAWING\04-011\_STR-UTDRING





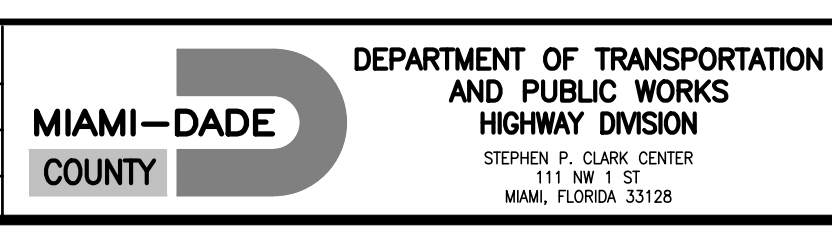
PLOTTED BY: LINER, FRANCO DATE: 12/12/2022 2:44 PM  
 CREATED: 2022-12-09 - \\US0231-PFSS01\WORKGROUP\215615952\ELECTRICAL\DRAWING\04-011\_STRF-UTR.DWG

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY



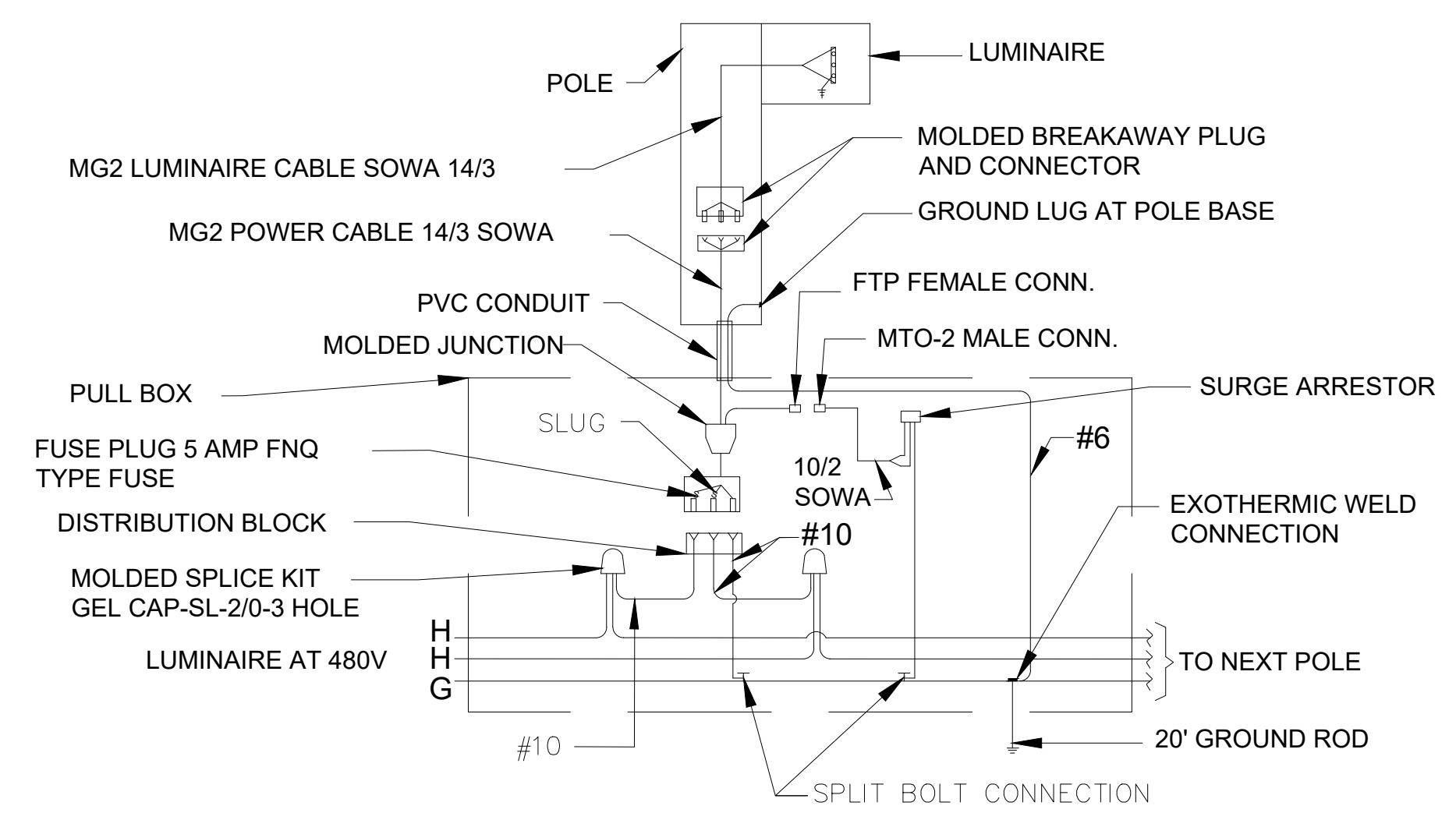
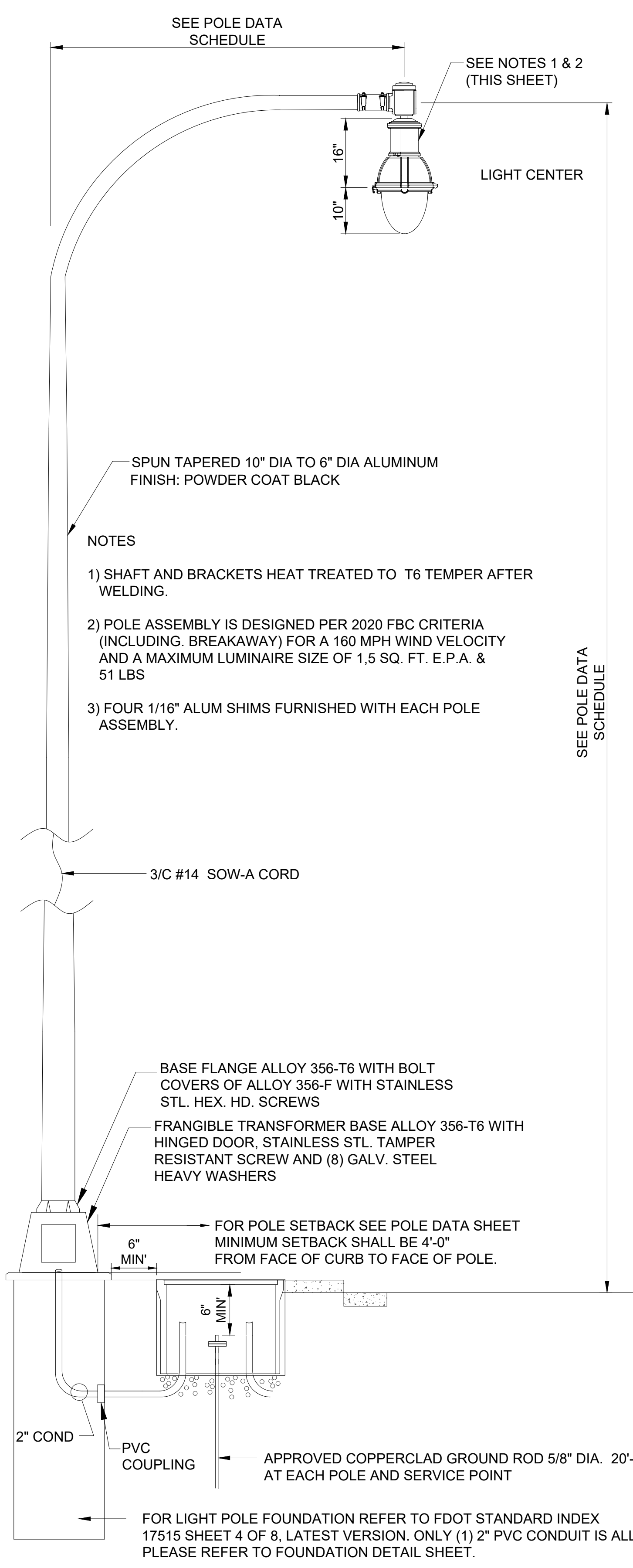
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - only errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

	NAME	DATE	NAME	DATE
DESIGNED BY	BB	3/26/2021	DRAWN BY	
CHECKED BY	JN		CHECKED BY	
SUPERVISED BY:				

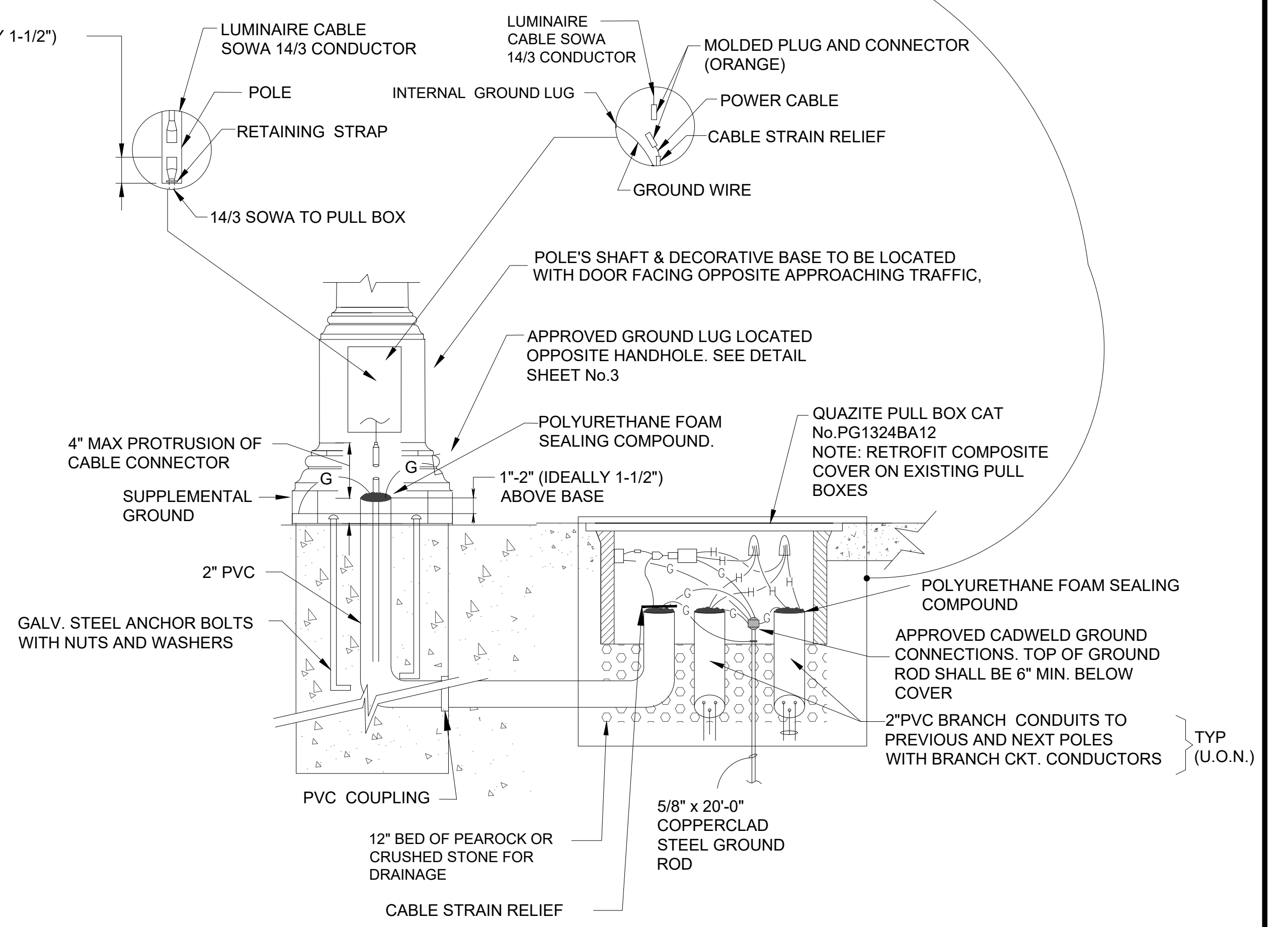
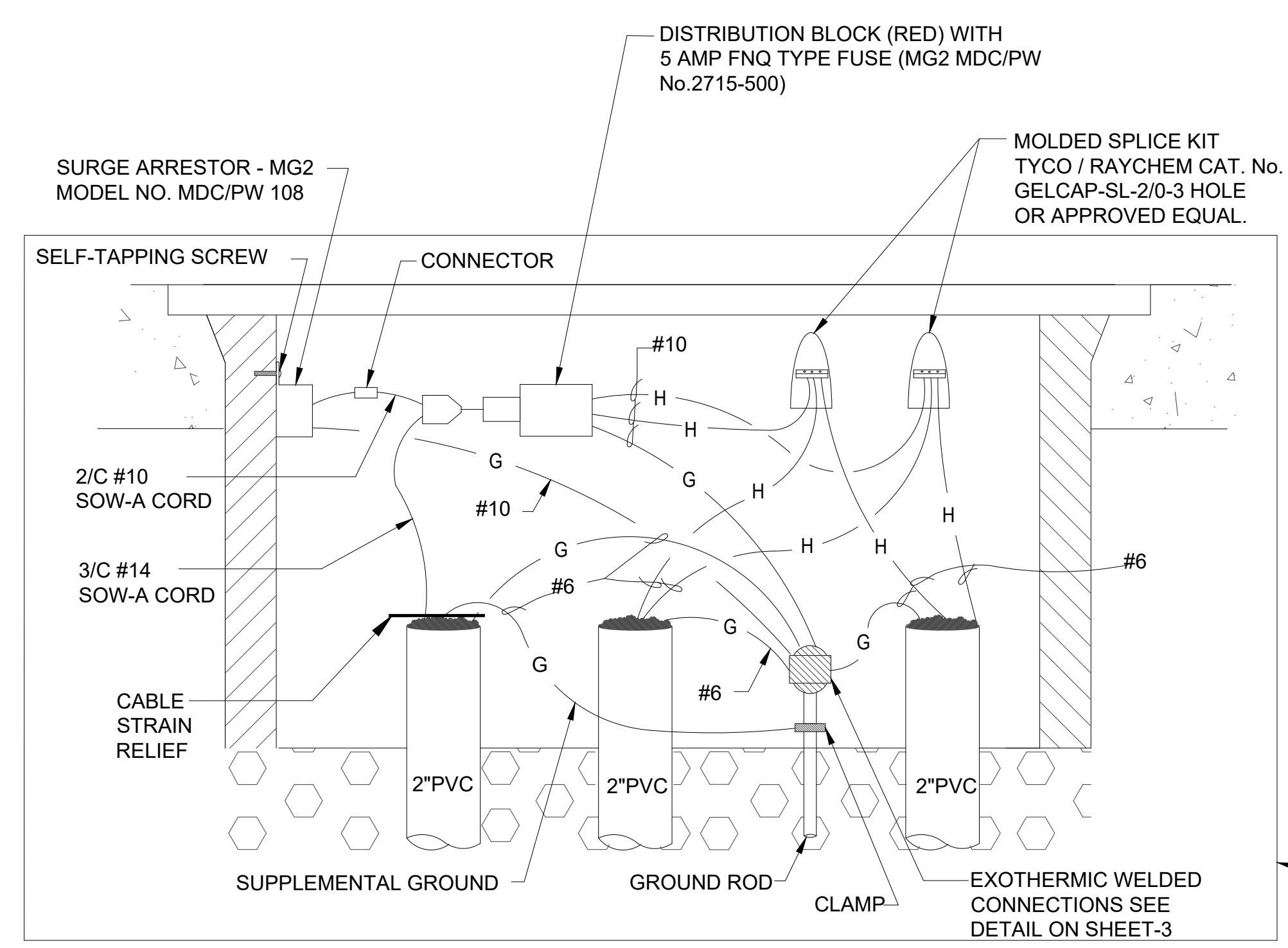


## STREET LIGHTING PLAN 8

- SHOP DRAWINGS**
- A. DESIGN CRITERIA/PARAMETERS/POLE SHOP DRAWINGS**
- MUST COMPLY WITH CURRENT AASHTO SPECIFICATIONS IN REGARD TO GROUP LOADING, WIND VELOCITY, HEIGHT & DRAG COEFFICIENT ETC.
  - LIST: AREA OF WIND EXPOSURE, COMPONENT DEAD WEIGHTS, APPLICABLE COEFFICIENT FOR EACH
  - IDENTIFY ANY EXCEPTIONS TO AASHTO (LOADING/AND OR ANALYSIS)
  - PROVIDE MATERIALS SPECIFICATIONS, ALLOWABLE STRESSES, METHODS OF ANALYSIS.
- B. POLE SHAFT COMPUTATIONS**
- CONSIDER WIND AND DEAD LOAD ON ALL COMPONENTS
  - ANALYZE EFFECTS OF COMBINED STRESS
    - MOMENT
    - SHEAR
    - TORSION
    - COMPUTE CSR PER AASHTO
  - CRITICAL AREAS OF STRESS
    - BASE OF POLE
    - MANHOLE
    - POLE CROSS-SECTION
- C. ARM STRESS COMPUTATIONS**
- CONSIDER WIND AND DEAD LOAD ON ALL COMPONENTS.
  - ANALYZE EFFECTS OF COMBINED STRESS.
    - MOMENT
    - SHEAR
    - COMPUTE CSR PER AASHTO
  - CRITICAL AREAS OF STRESS
    - TUBE COMPONENTS AT POLE CONNECTION
    - ACTUAL CONNECTION/FASTENERS
- D. MISCELLANEOUS COMPUTATIONS / ANALYSIS**
- SECTION PROPERTIES
  - WELD ANALYSIS (IF APPLICABLE)
  - LOADING DIAGRAM (POLE AND ARM)
  - CONNECTION DETAILS
  - TEST REFERENCES, EQUATIONS
- E. THE TEST REPORT SHALL BE CERTIFIED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.**



- NOTES:**
- 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.
  - 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.

PLOTTED BY: UNKER, FRANCO DATE: 12/17/2022 2:44 PM  
 CREATED: 2022-10-04 - \\US0231-PPSS01\WORKGROUP\215615952\ELECTRICAL\DRAWING\012-014\_DETALS.DWG

DATE		BY		DESCRIPTION		DATE		BY		DESCRIPTION	



DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
BB	BB	3/26/2021			
CHECKED BY	JIN		CHECKED BY		
SUPERVISED BY					



**DECORATIVE POLE DETAIL**

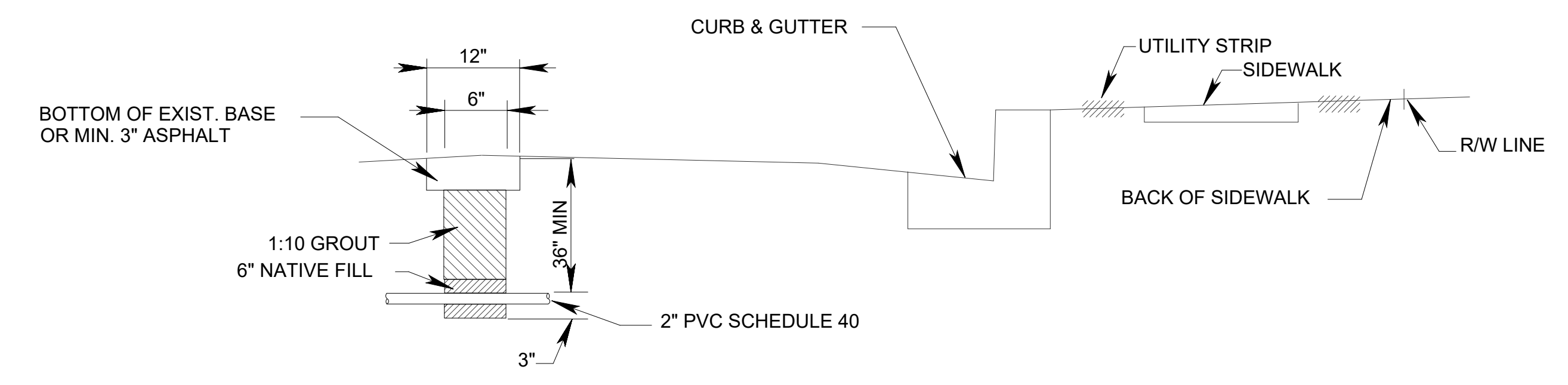






1 OPTION

CONDUIT BURIED WHEN CROSSING ROAD

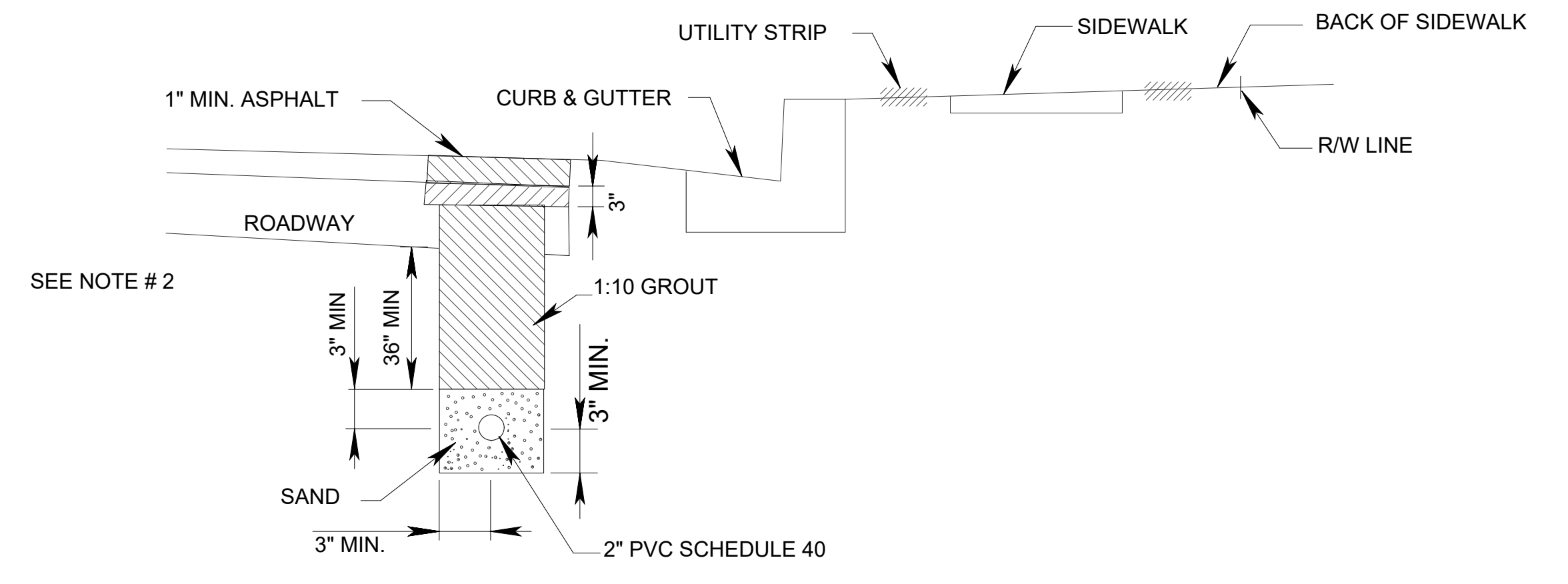


NOTE:  
TRENCH NOT TO BE OPENED MORE THAN 250' AT A TIME

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

2 OPTION

CONDUIT BURIAL IN ROADWAY



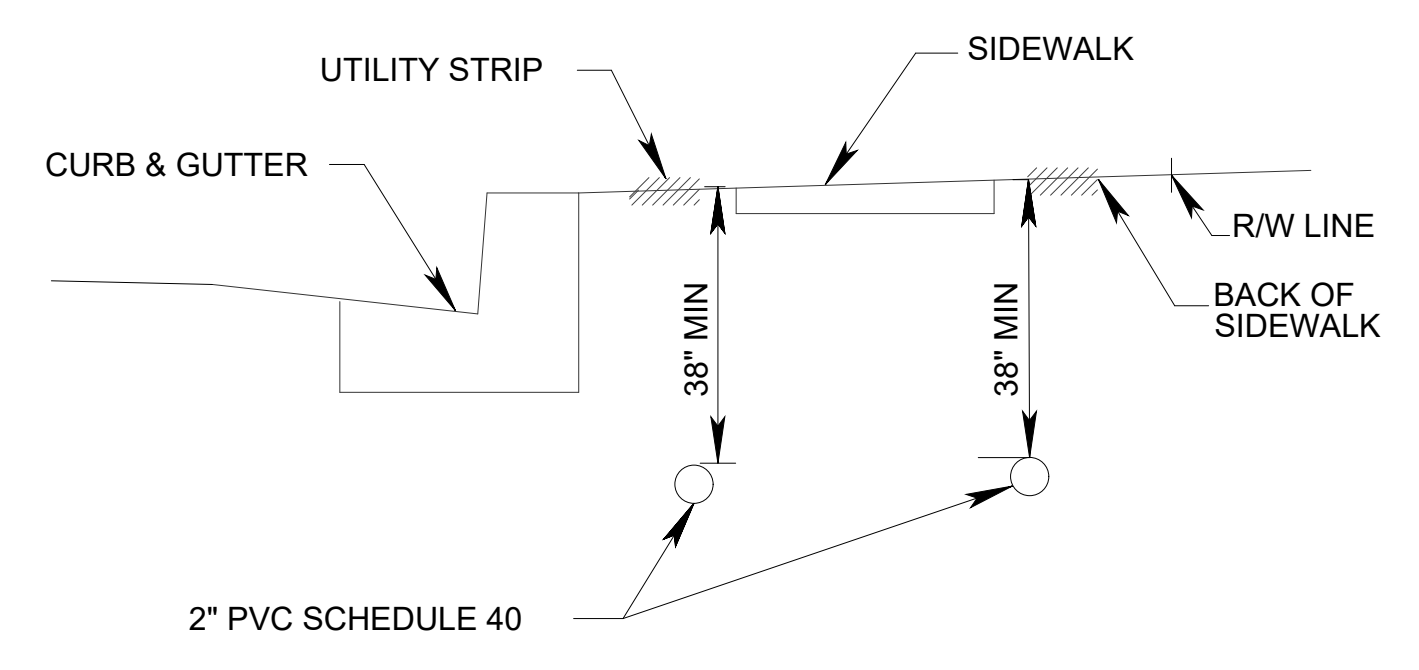
NOTE:

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.

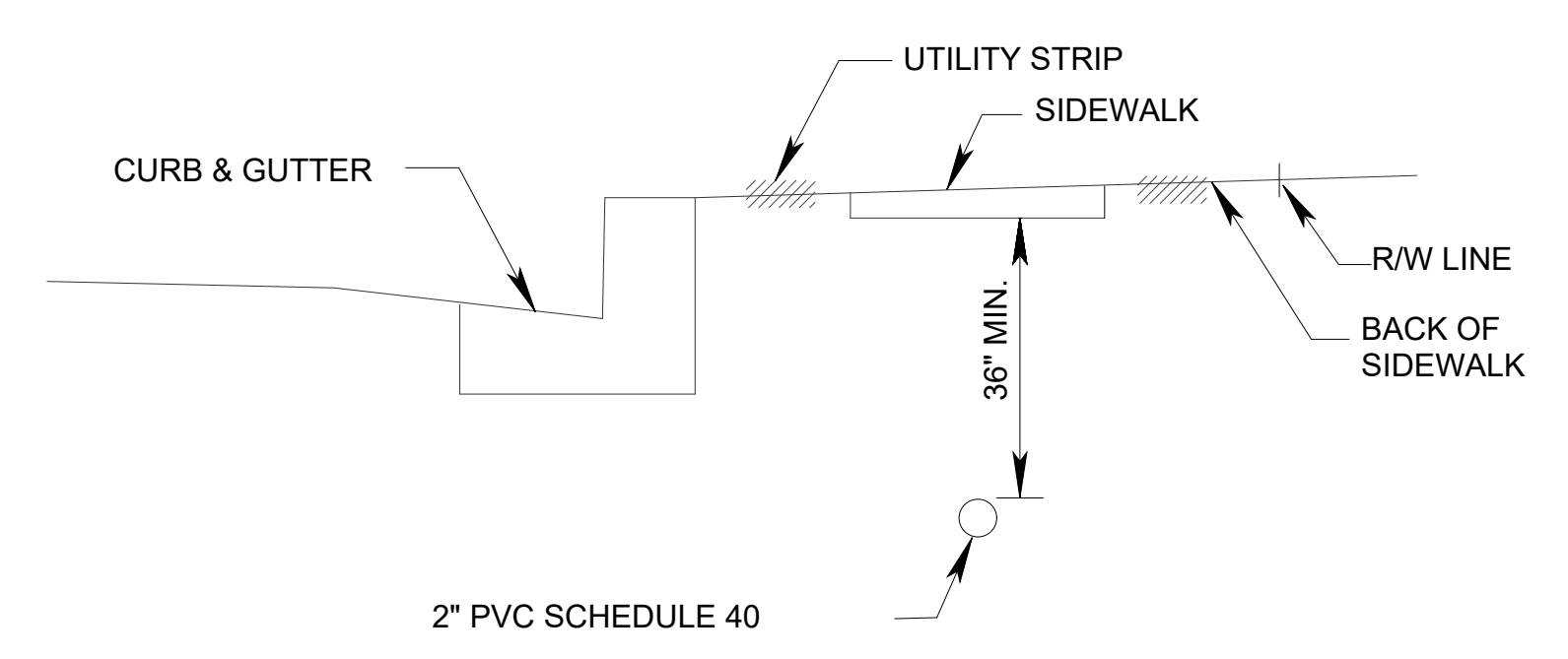
3 OPTION

CONDUIT IN UTILITY AND BACK OF SIDEWALK



4 OPTION

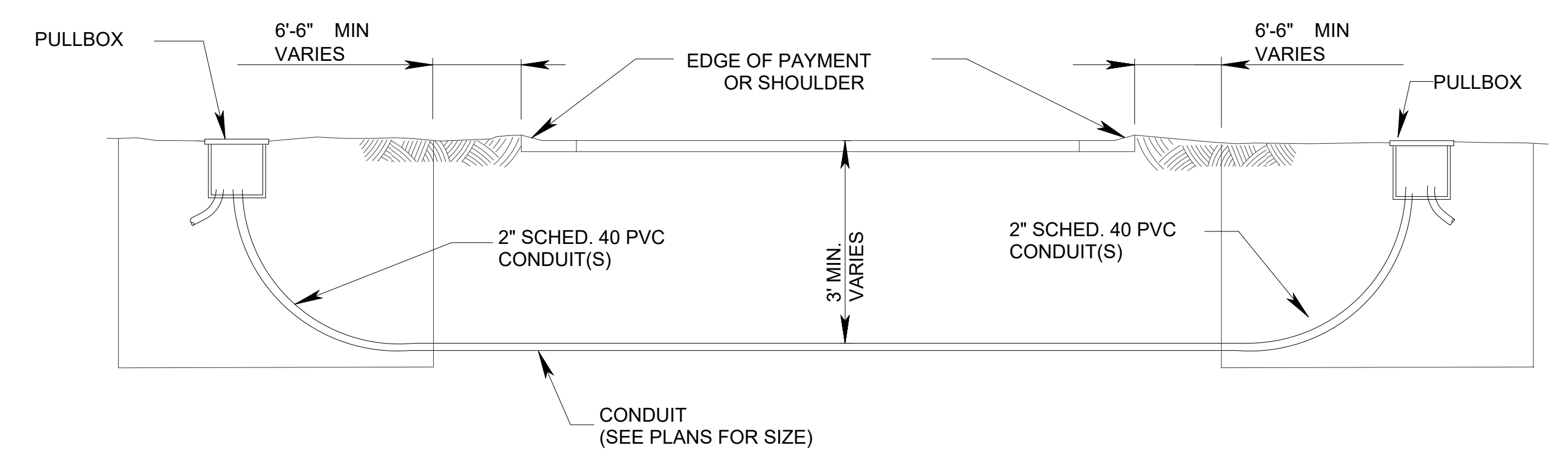
CONDUIT UNDER SIDEWALK



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 ACCOMMODATION MANUAL.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



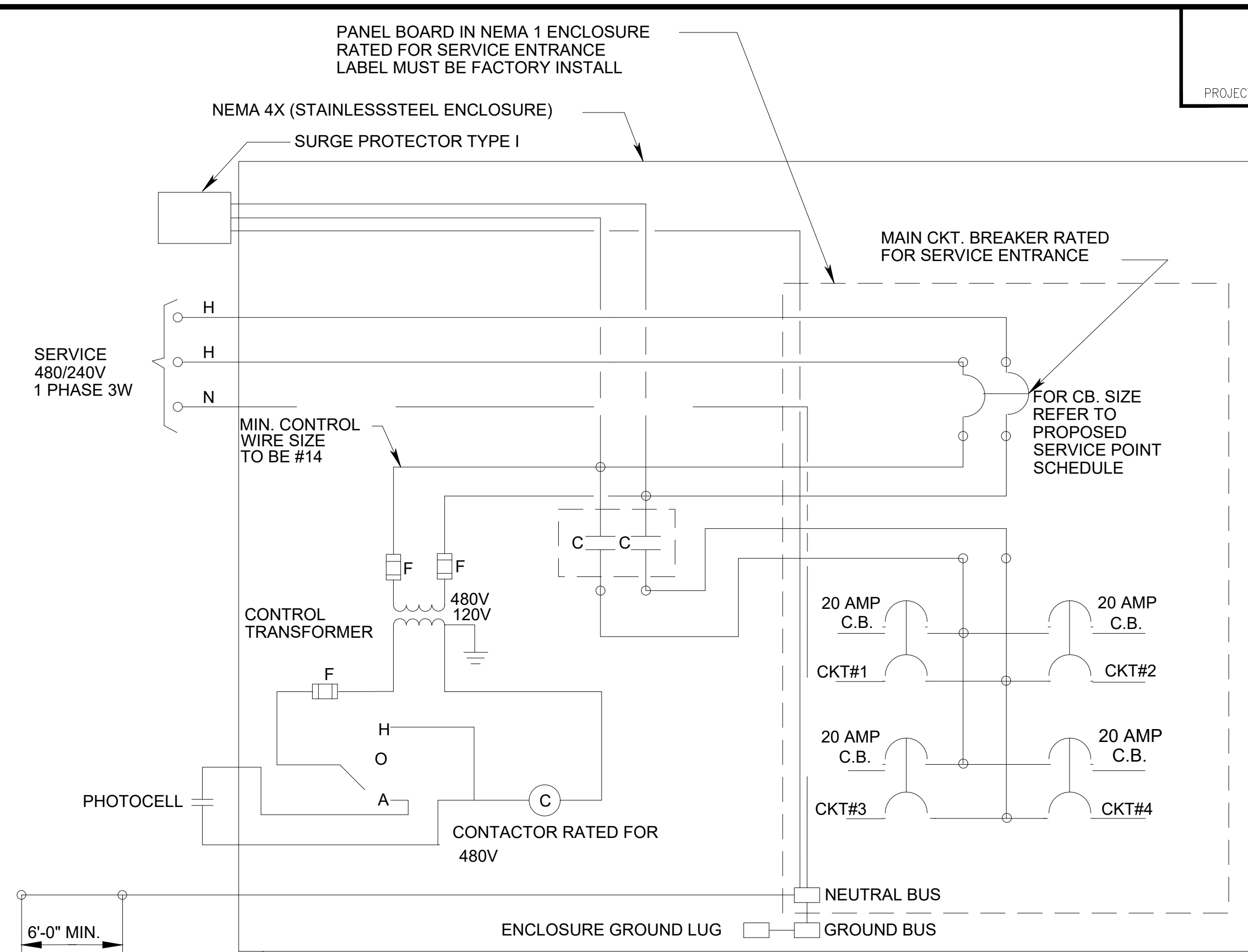
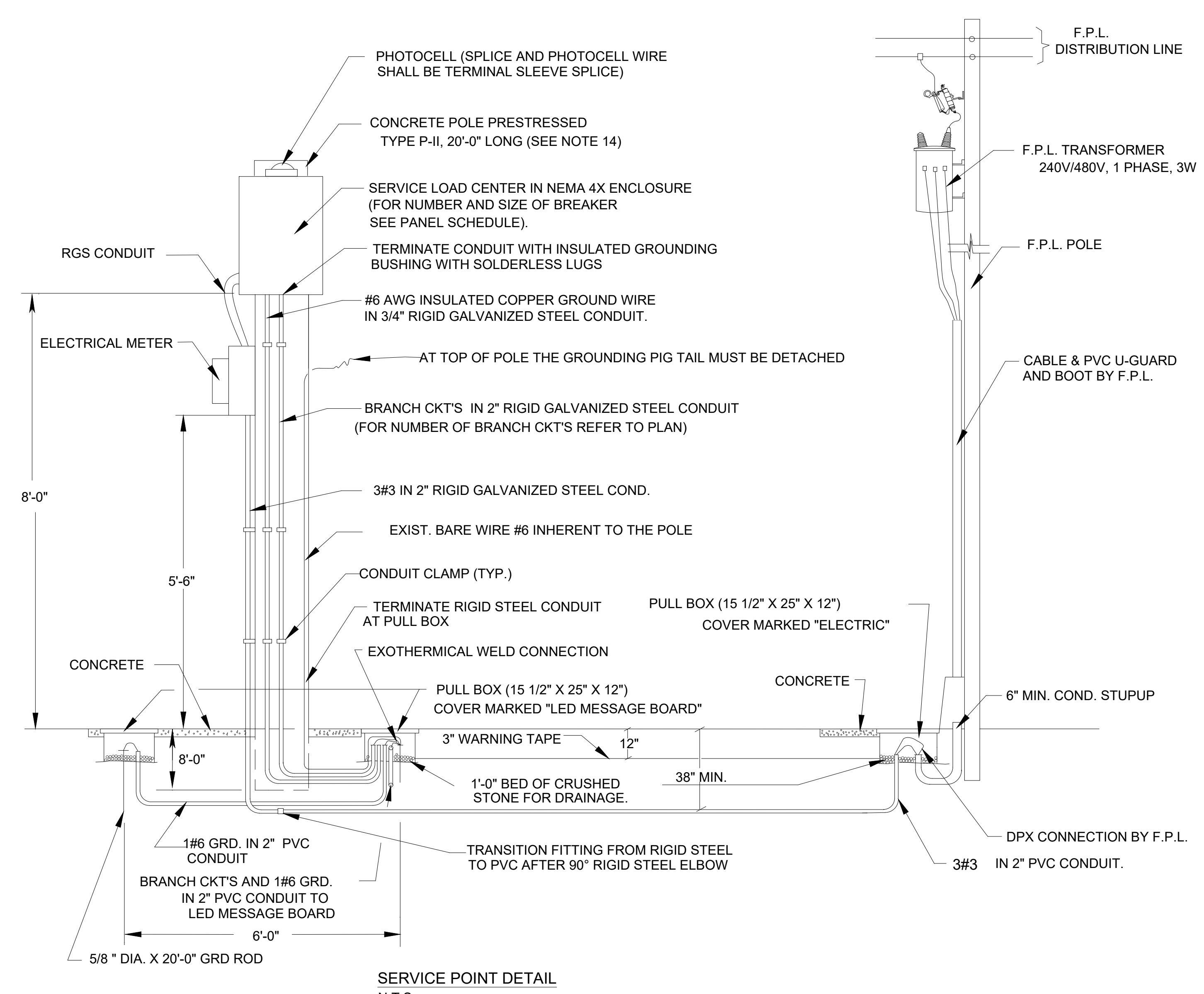
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - only errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE



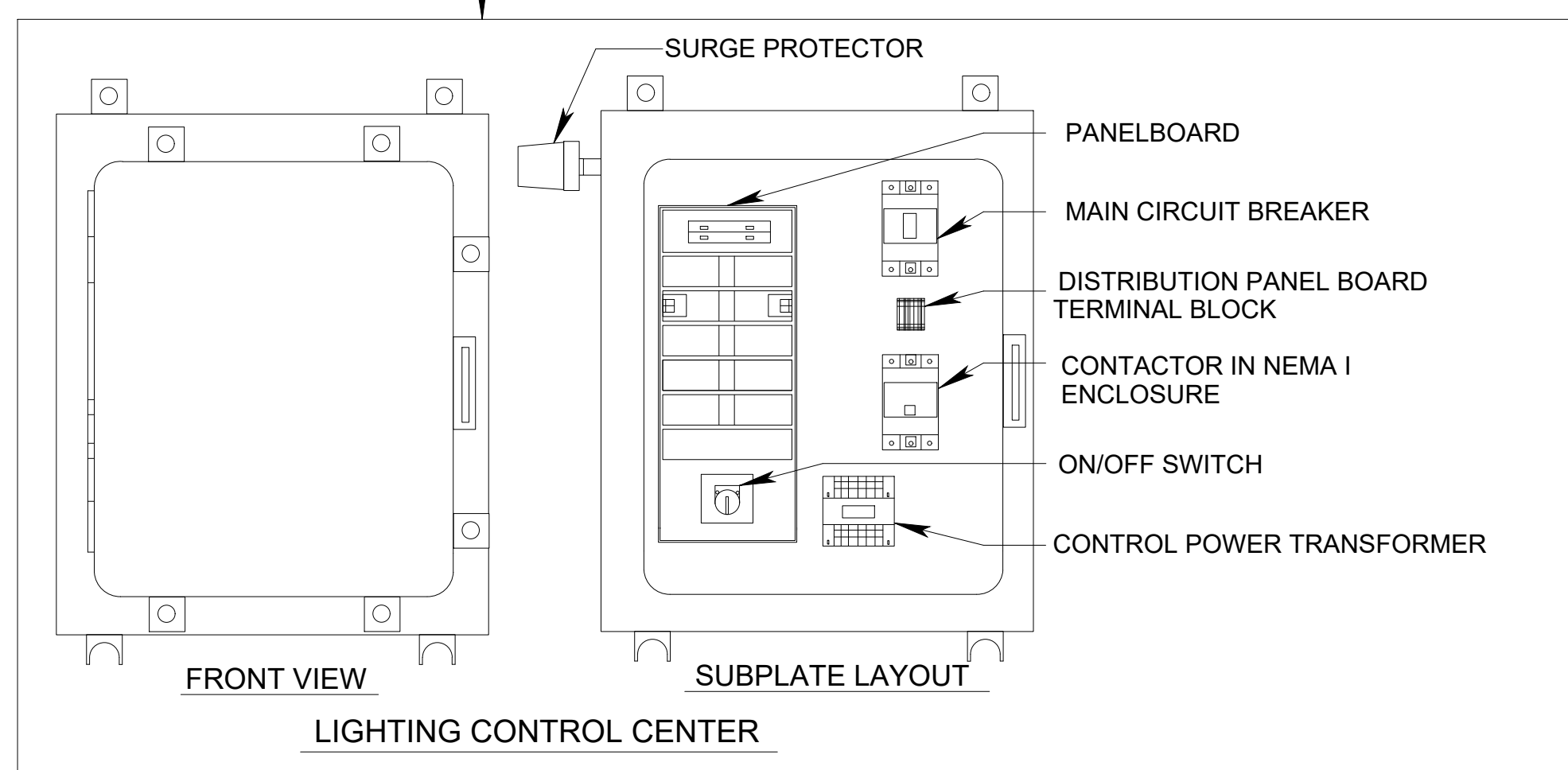
CONDUIT BURIAL DETAILS

PLOTTED BY: UNKER, FRANCOE DATE: 12/12/2022 2:44 PM  
CREATED: 2022-10-04 - \\US0231-PRSS01\WORKGROUP\215615952\ELECTRICAL\DRAWINGS\012-014\_DETALS.DWG



- NOTES (CONT.)
- CONDUCTORS BETWEEN THE LOAD CENTER AND FIRST POLE HAVE NO SPLICES. SPLICES ARE NOT PERMITTED AT THE LOAD CENTER PULL BOX.
  - ALL GROUND ROD SHALL BE INTERCONNECTED (USING #6 GROUND WIRE).
  - PROVIDE SUPPLEMENTARY GROUND ELECTRODE SPACED AT LEAST 6FT APART (AS PER N.E.C. REQUIREMENT).
  - ALL CONDUCTOR SHALL BE TYPE RHH-RHW-2-XLP. (OTHER TYPE OF CONDUCTOR IS NOT ALLOWED, EXCEPT GROUND WIRE WHICH SHALL BE TYPE THWN.)
  - CONTRACTOR SHALL SUBMIT STRUCTURAL CALCULATIONS OF THE POLE, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER.
  - 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.
  - ALL WIRES EXTERNAL TO CONTROL CABINET TO BE TERMINATED TO A TERMINAL.
  - WIRES END WITHIN CABINET TO BE IDENTIFIED WITH WIRE MARKERS.
  - DESIGNATES TERMINAL FOR CUSTOMER CONNECTIONS.

- NOTES:
- THE ENCLOSURE SHALL BE NEMA 4X (STAINLESS STEEL), POLE MOUNTED, RIGIDLY ATTACHED TO THE POLE FACE.
  - 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.
  - 250V MINIMUM RATING BOLT TYPE BREAKERS SHALL BE USED.
  - A 600V SURGE PROTECTOR TYPE I SHALL BE WIRED OUTSIDE THE ENCLOSURE. NO SPLICING IN ENCLOSURE.
  - A MAIN BREAKER IS REQUIRED IN ALL SERVICE PANELS WITH 2 OR MORE FEEDER BREAKERS.
  - ALL SERVICE EQUIPMENT SHALL BE U.L. APPROVED.
  - 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
  - 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.
  - THE ENCLOSURE TO BE RIGIDLY ATTACHED TO THE POLE FACE.
  - 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)
  - 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).



PANEL BOARD SCHEDULE					
NEMA-1 10,3W,240/480V, (2P - 60 A MCB) 35,000 RMS SYMMETRICAL SURF-MTD					
CKT NO	SERVING	KVA	AMPS	C. BKR	WIRE/CONDUCT
1	SEE VDROPS SCHEDULE	1.9	4.0	20A	SEE VDROPS SCHEDULE
2	SEE VDROPS SCHEDULE	2.8	5.8	20A	SEE VDROPS SCHEDULE
3	SEE VDROPS SCHEDULE	1.6	3.5	20A	SEE VDROPS SCHEDULE
4	SEE VDROPS SCHEDULE	1.8	3.7	20A	SEE VDROPS SCHEDULE

DISCONNECT SWITCH LOAD CALCULATION:

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

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

PLOTTED BY: UNKER, FRANCINE DATE: 12/17/2022 2:45 PM  
 CREATED: 2022-12-08 - \\US0231-PPFSS01\WORKGROUP\215615952\ELECTRICAL\DRAWING\015\_SPC-PHY-DEL-HESS-BIRD.DWG

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY



DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
BB	BB	3/26/2021			
CHECKED BY	JIN		CHECKED BY		
SUPERVISED BY					



SERVICE POINT DETAIL FOR STREET LIGHTING

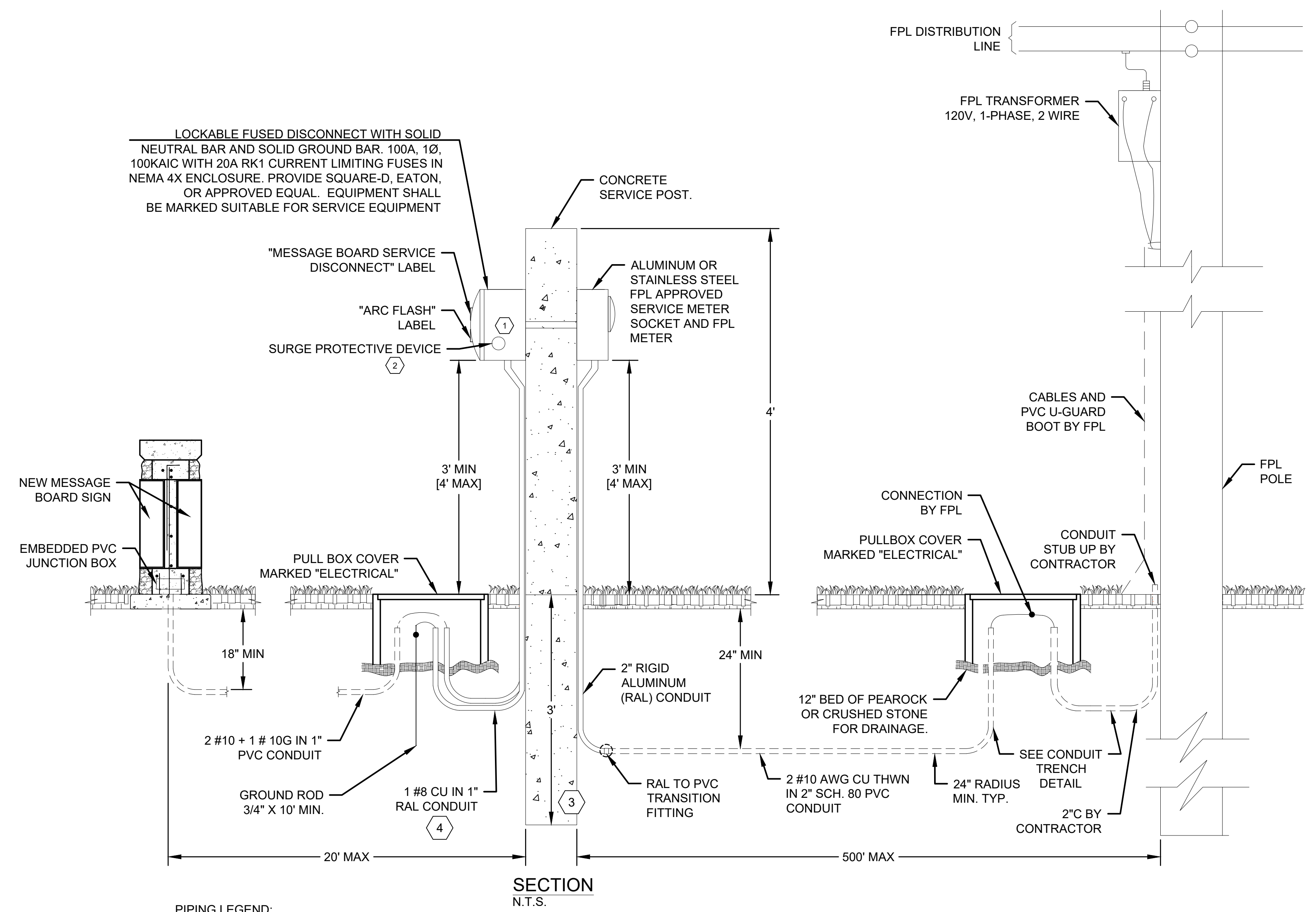


**NOTES:**

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 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 INCLUDE INCIDENT ENERGY, ARCH FLASH PROTECTION BOUNDARIES AND PERSONAL PROTECTIVE EQUIPMENT (PPE).



**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
<b>TOTAL LOAD</b>	<b>1,566.0</b>
AMPS@120V=13A	

**SERVICE 1 LOAD CALCULATION**  
N.T.S.

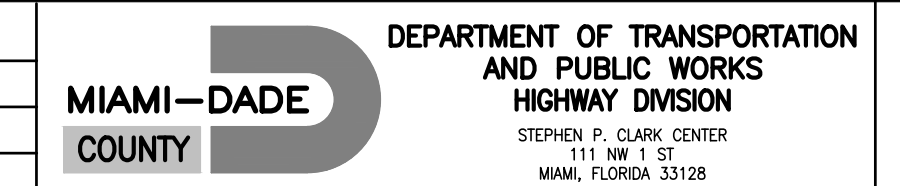
**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - only 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.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
BB	BB	3/26/2021			
CHECKED BY	JN		CHECKED BY		
SUPERVISED BY:					



**SERVICE POINT DETAIL FOR MESSAGE BOARD**

PLOTTED BY: LINEAR, FRANCO DATE: 12/12/2022 2:45 PM  
 CREATED: 2022-10-04 - \\US0231-PRSS01\WORKGROUP\215615952\ELECTRICAL\DRAWING\016\_SVC-PHY-DEL-08C-SWING.DWG



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 (%)	
1	Utility XFMR	LC-A	240/480V, 1Ø	0.9	50	3	Cu	PVC	1	50	8788	18.31	0.2455	0.45	0.09%	
	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%	

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - only 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.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	BB	3/26/2021			
CHECKED BY	JIN		CHECKED BY		
SUPERVISED BY					



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%	

PLOTTED BY: UNKER, FRANCOE DATE: 12/12/2022 2:46 PM  
 CREATED: 2022-10-07 - \\US0231-PRSS01\WORKGROUP\215615952\ELECTRICAL\DRAWING\017-018-VOL-1-DRP-CALC.DWG

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



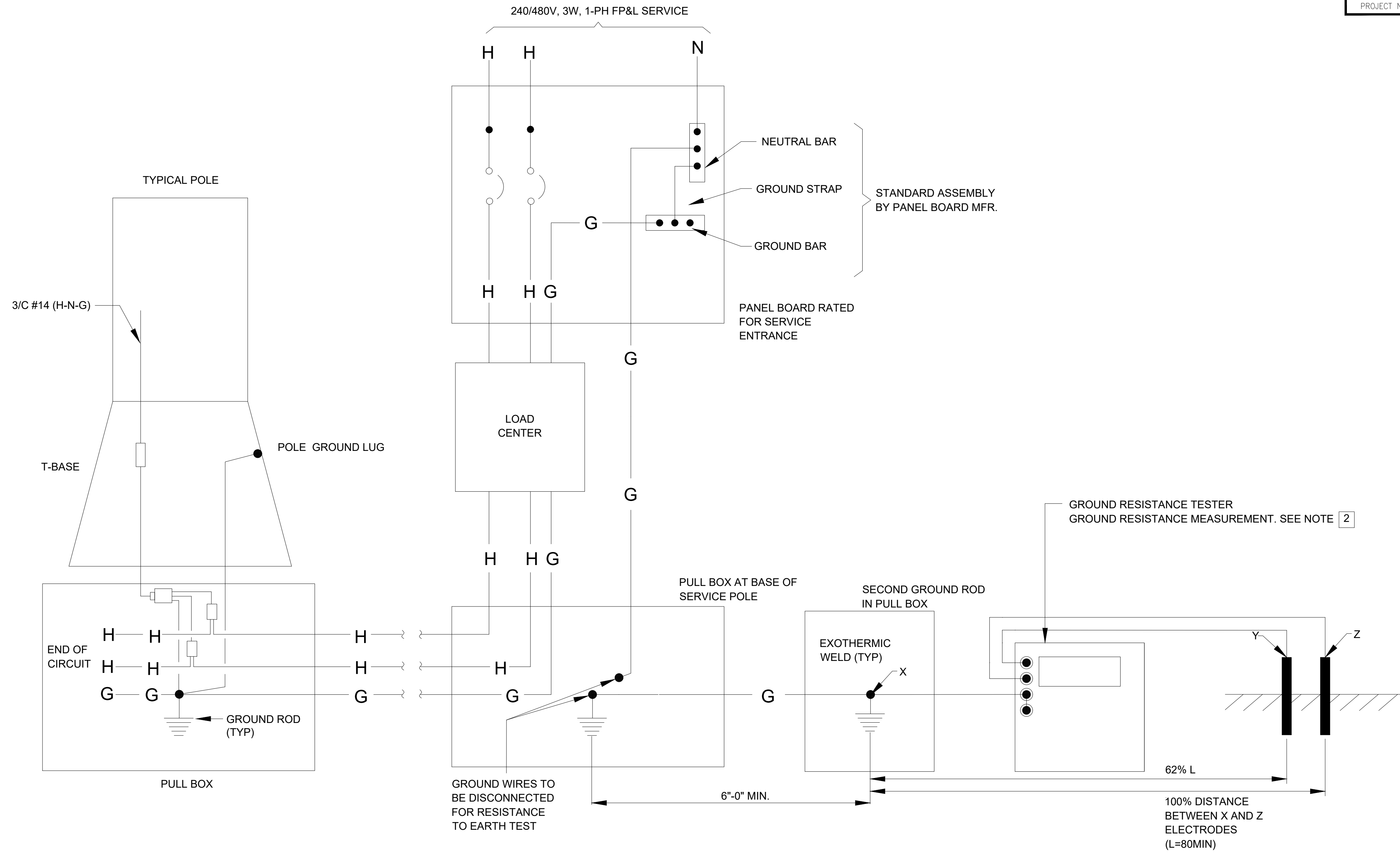
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - only errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	BB	3/26/2021			
CHECKED BY	JIN		CHECKED BY		
SUPERVISED BY:					



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.

PLOTTED BY: UNDEK, FRANCINE DATE: 12/12/2022 2:46 PM  
 CREATED: 2022-12-09 - \\US0231-PROJGROUP\215615952\ELECTRICAL\DRAWING\019\_0910-TEST-62%-METHOD.DWG

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY



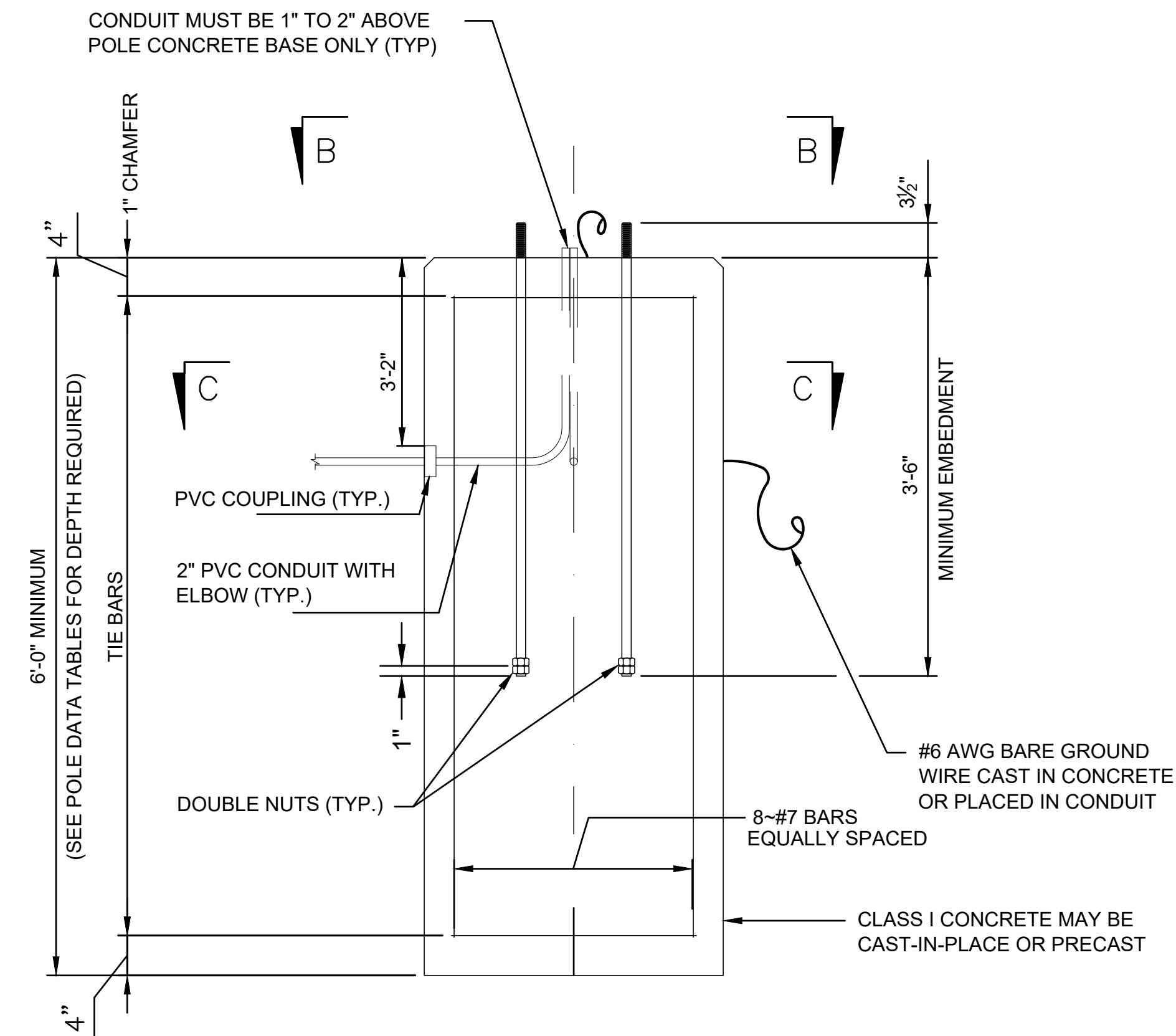
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - only errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

NAME	DATE	NAME	DATE
DESIGNED BY: BB	3/26/2021	DRAWN BY:	
CHECKED BY: JIN		CHECKED BY:	
SUPERVISED BY:			



GROUND TEST 62% METHOD

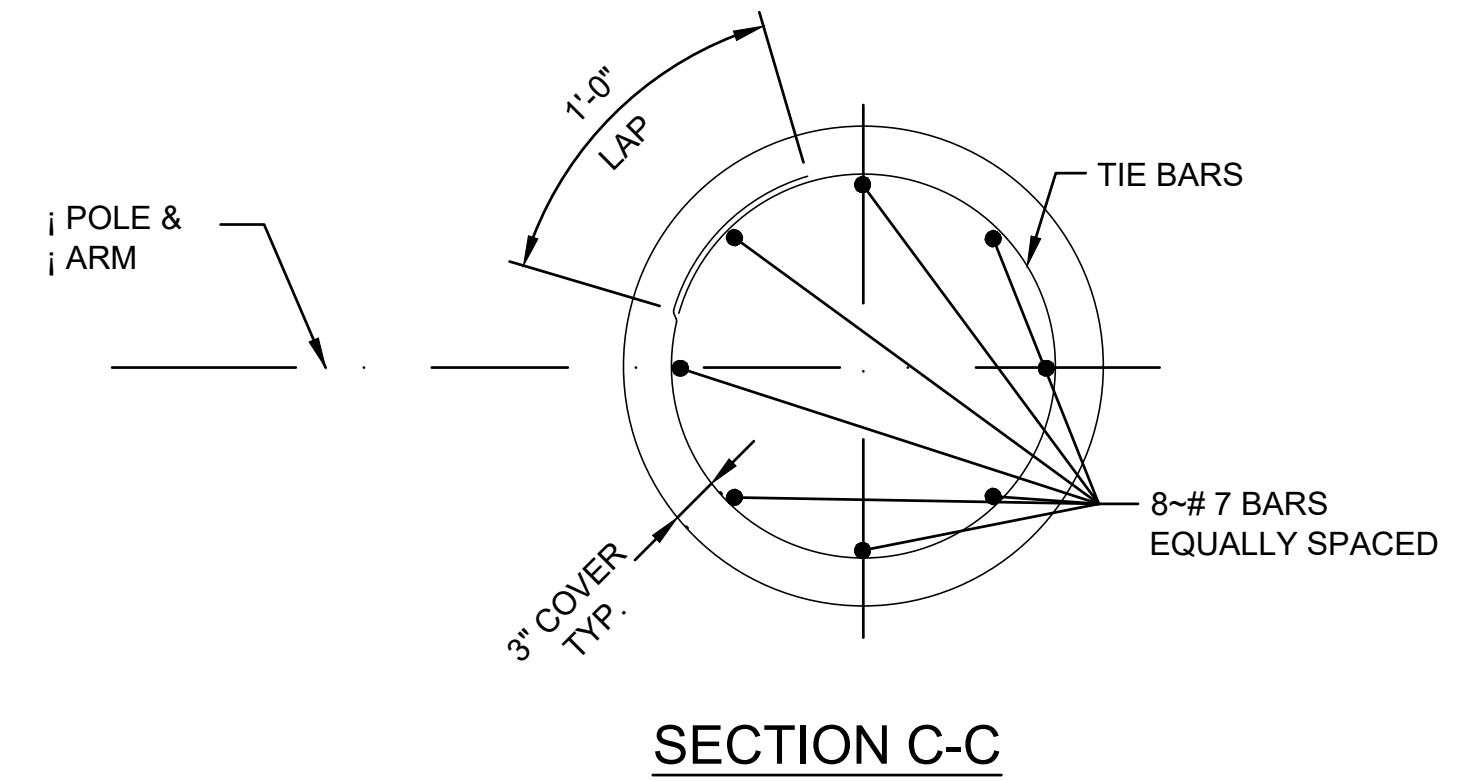
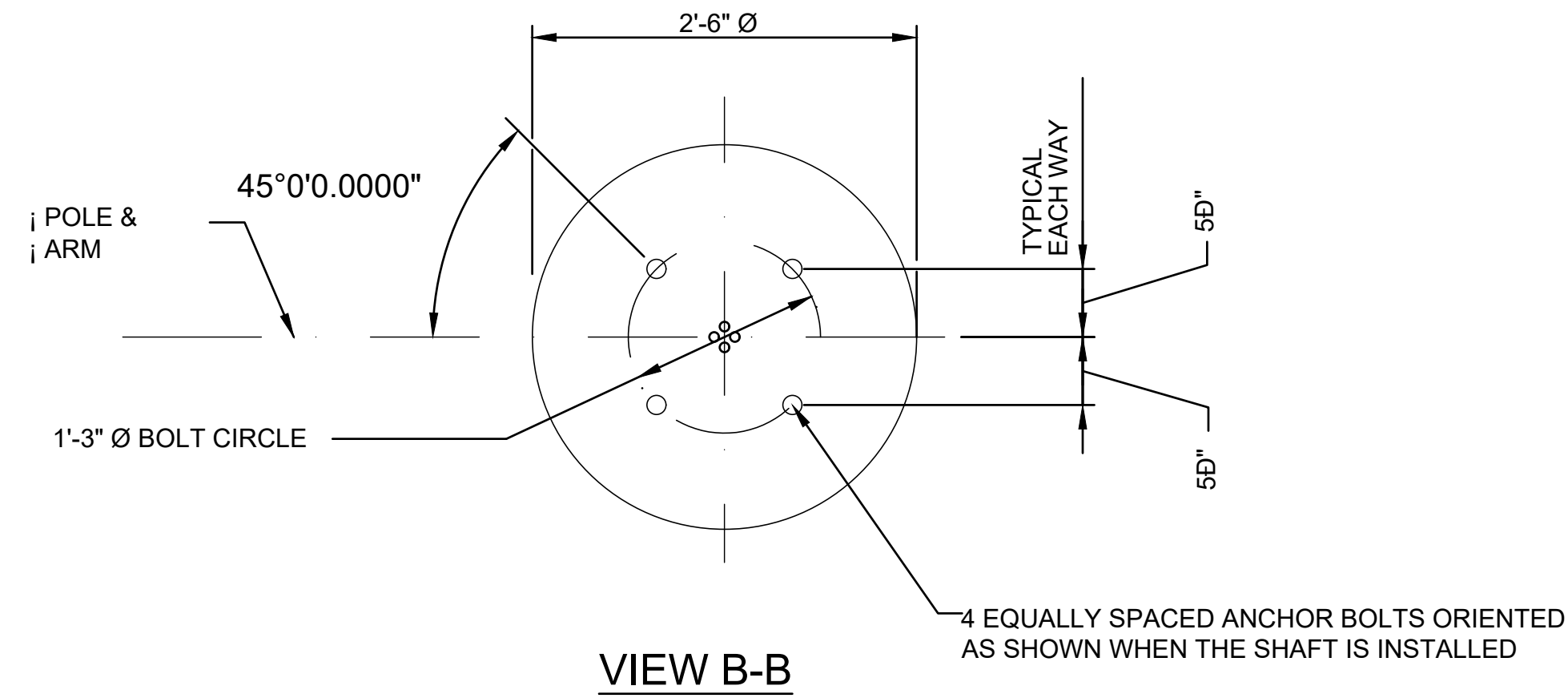




**FOUNDATION**

**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.



**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: LINER, FRANCIS DATE: 12/12/2022 2:47 PM  
CREATED: 2022-10-04 - \\US0231-PRSS01\WORKGROUP\215615952\ELECTRICAL\DRAWING\DRN-DEL.DWG

**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



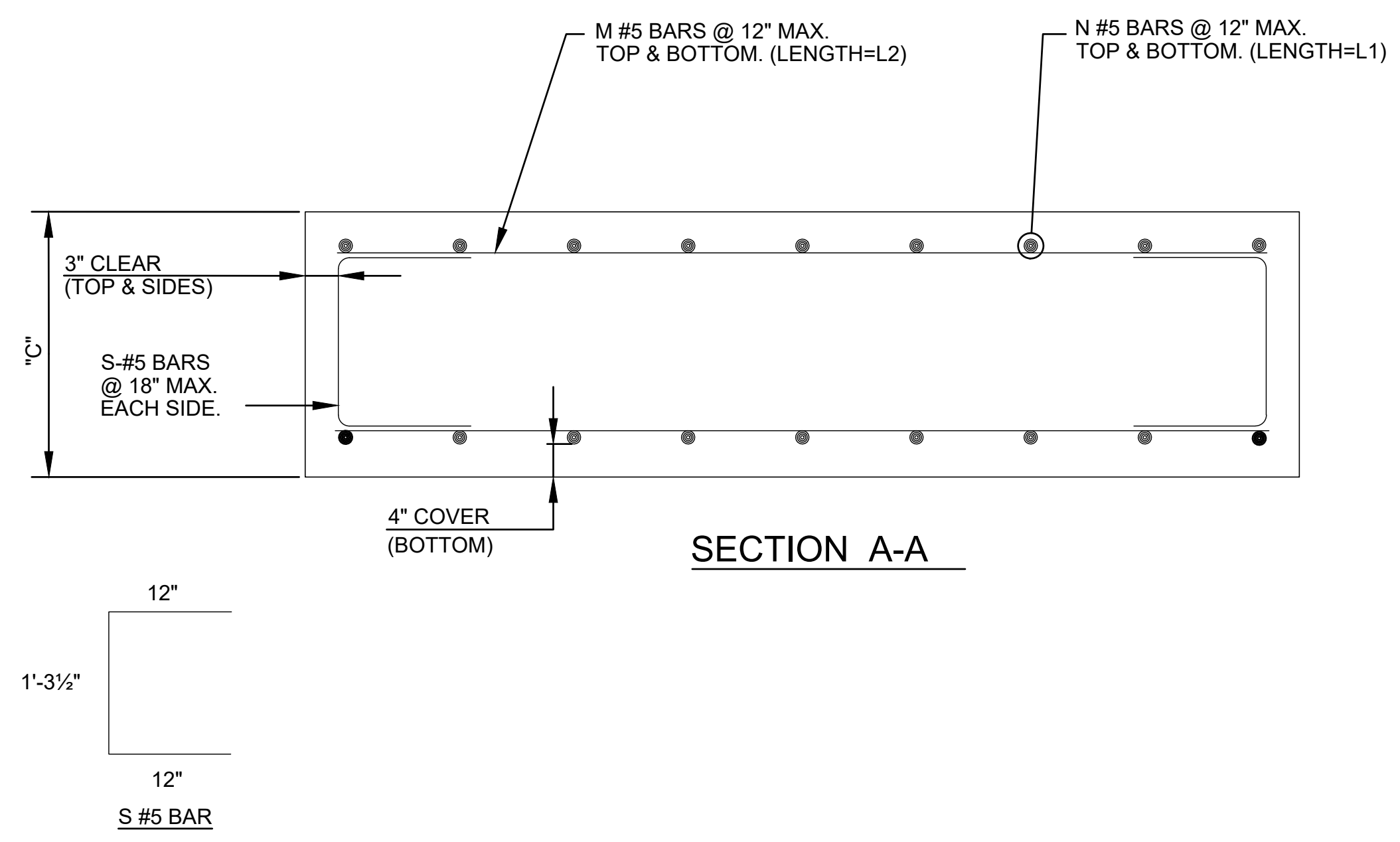
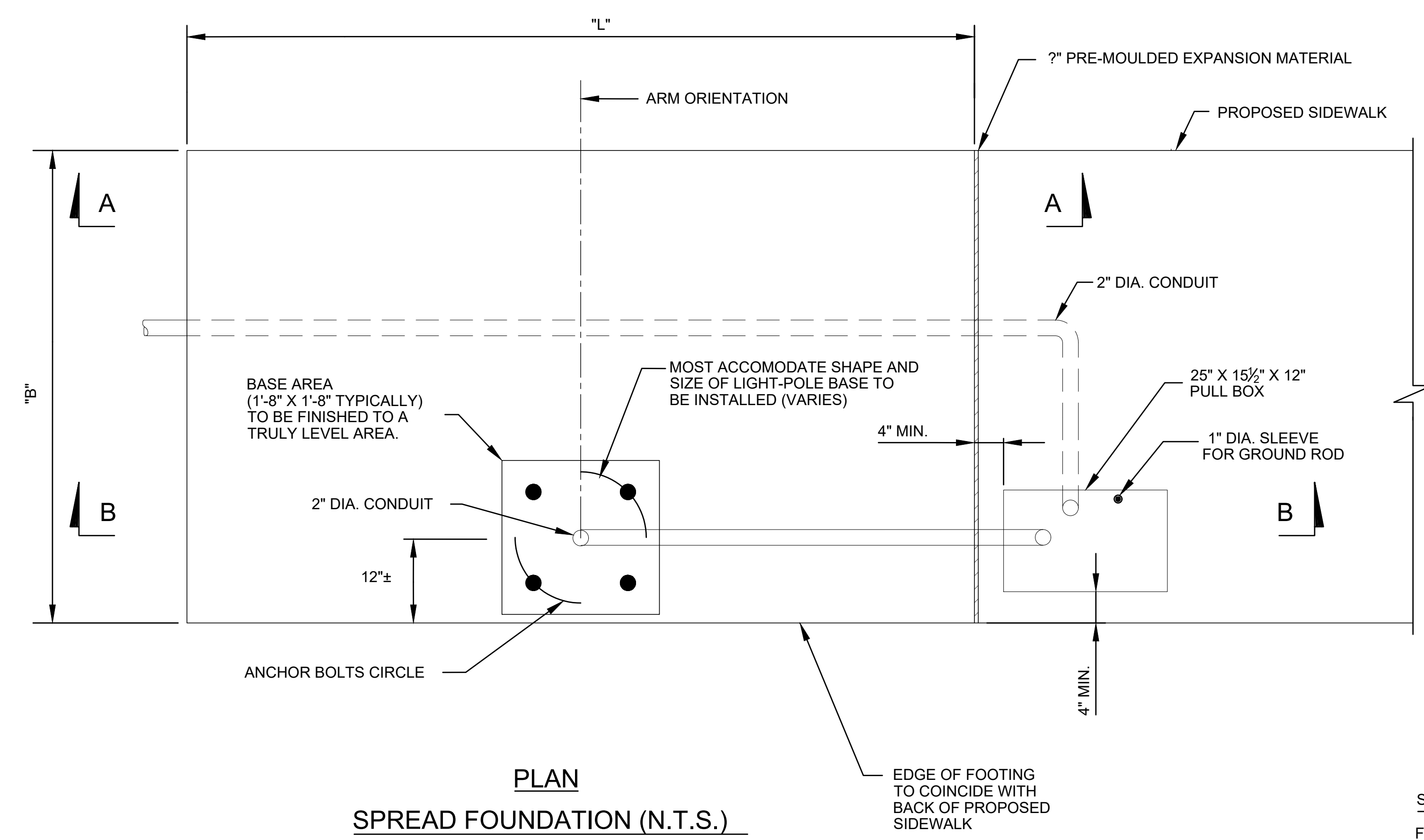
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - only errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
BB	BB	3/26/2021			
CHECKED BY	JN		CHECKED BY		
SUPERVISED BY:					



**FOUNDATION DETAIL**

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



SOIL DESIGN PARAMETERS:

- FRICITION ANGLE : \*
- SOIL DRY UNIT WEIGHT : \*
- SOIL SUBMERGED UNIT WEIGHT : \*
- ALLOWABLE BEARING CAPACITY : \*
- ULTIMATE BEARING CAPACITY : \*
- PERFORMANCE FACTOR : \*

\* TO BE PROVIDED BY GEOTECHNICAL ENGINNER

TABLE OF SPREAD FOOTING PARAMETERS

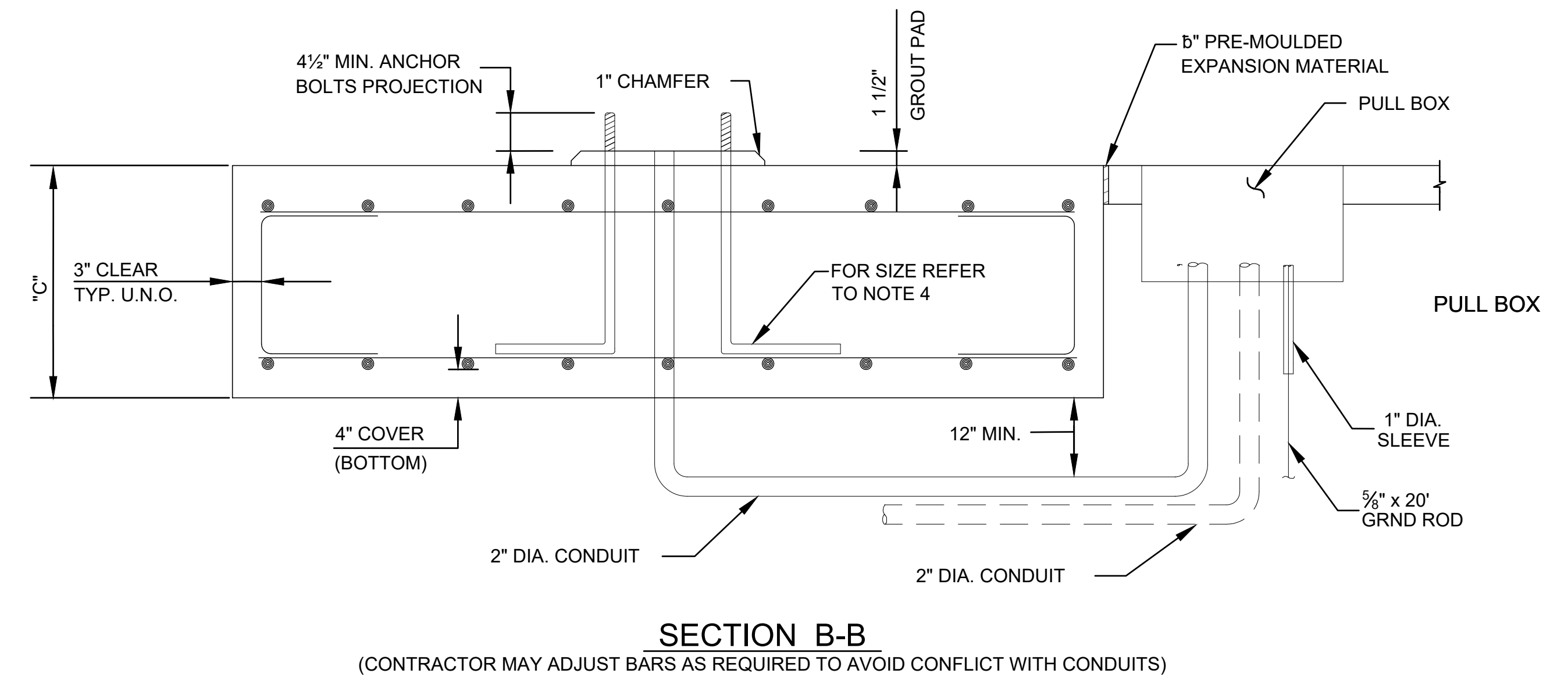
POLE NO.	STATION	FOOTING TYPE	DIM. L	DIM. B	DIM. C	N	M	L1	L2	S
XX-X	XX+XX	1	*	*	*	*	*	*	*	*

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 FC=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.



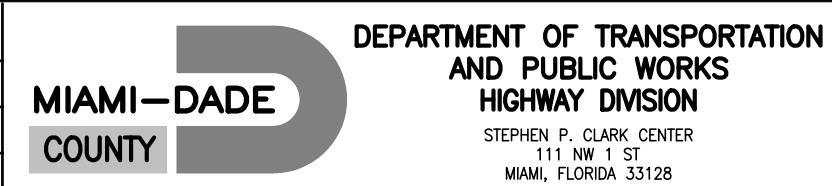
PLOTTED BY: LINEAR, FRANCO DATE: 12/12/2022 2:47 PM  
 CREATED: 2022-12-08 - \\US0231-PPFSS01\WORKGROUP\215615952\ELECTRICAL\DRAWING\SPR-FE-LINE

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



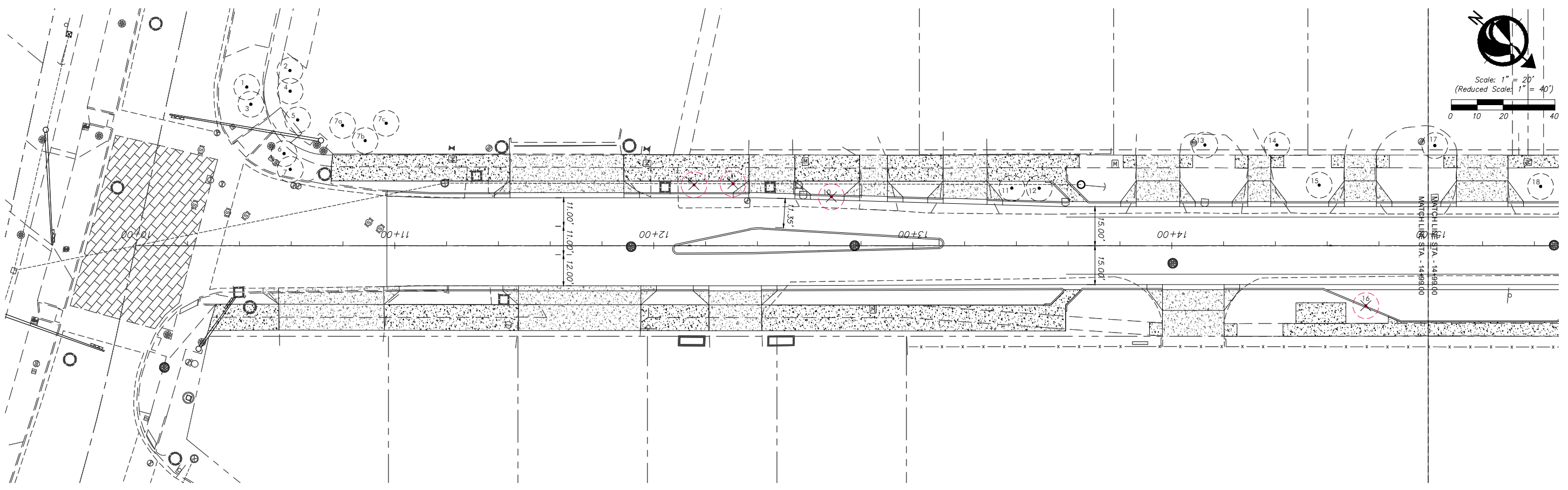
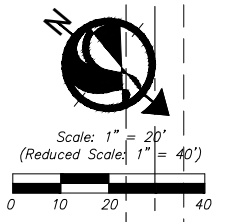
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - only errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
BB	BB	3/26/2021			
CHECKED BY	JIN		CHECKED BY		
SUPERVISED BY:					

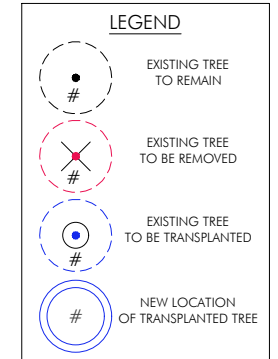


STEPHEN P. CLARK, CENTER  
111 NW 1 ST.  
MIAMI, FLORIDA 33128

SPREAD FOUNDATION



EXISTING TREE DISPOSITION LIST								
KEY	BOTANICAL NAME	COMMON NAME	SIZE		DISPOSITION			MITIGATION
			HT. (ft.)	SPD. (ft.)	DBH. (in.)	REMAIN	REMOVE	
1	Jatropha integerrima	Jatropha	5	6	3		X	
2	Jatropha integerrima	Jatropha	5	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	Eniclatryx japonica	Leaves	10	8	4		X	
12	Eniclatryx japonica	Leaves	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



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

REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

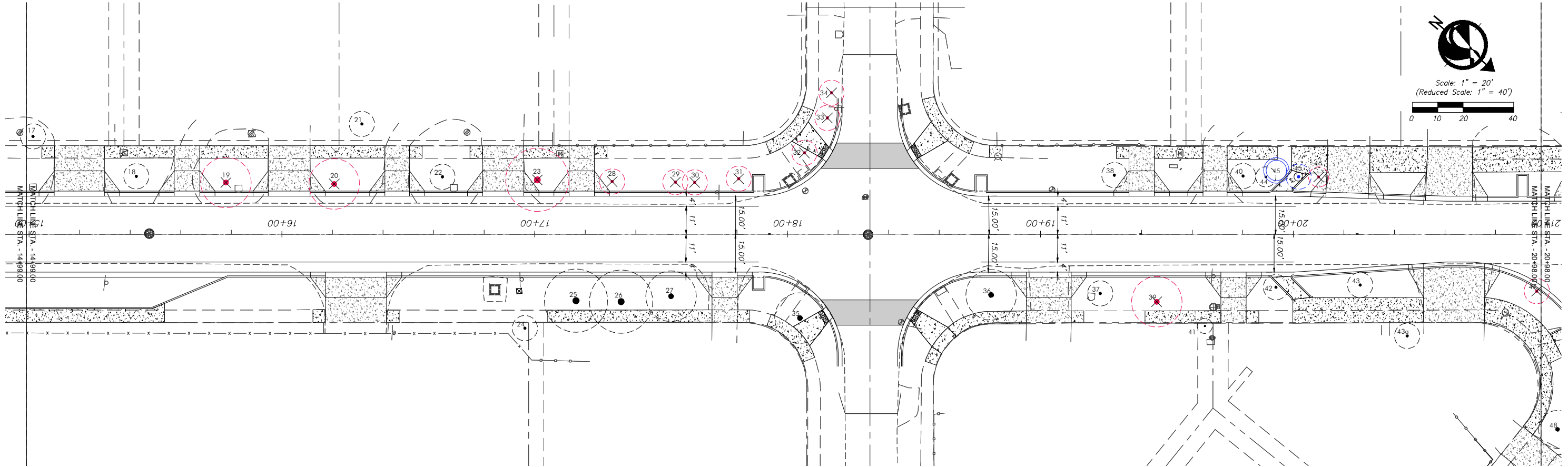
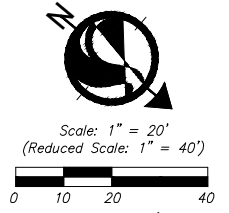
901 Ponce de Leon Blvd, Suite 900  
 Coral Gables, Florida 33134  
 www.stantec.com

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

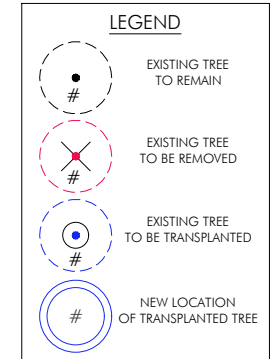
MIAMI-DADE  
 PUBLIC WORKS AND WASTE  
 MANAGEMENT DEPARTMENT  
 HIGHWAY DIVISION  
 STEPHEN P. CLARK CENTER  
 111 NW 1 ST  
 MIAMI, FLORIDA 33128

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





EXISTING TREE DISPOSITION LIST								
KEY	BOTANICAL NAME	COMMON NAME	SIZE		DISPOSITION			MITIGATION
			HT. (ft.)	SPD. (ft.)	DBH. (in.)	REMAIN	REMOVE	
17	Adonidia merrillii	Christmas Palm	8	10	Multi		X	
18	Roystonia regia	Royal Palm	35	10	10		X	
19	Bucida buceras	Black Olive	30	20	31			628
20	Swietenia mahagoni	Mahogany	30	20	32		X	628
21	Phoenix canariensis	Canary Island Date Palm	8	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
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	Roystonia regia	Royal Palm	35	10	10		X	
38	Roystonia regia	Royal Palm	35	10	10		X	
39	Bauhinia blakeana	Hong Kong Orchid	30	25	20+21+21		X	N/A
40	Roystonia regia	Royal Palm	40	10	10		X	
41	Bursera simarouba	Gumbo Limbo	12	6	6		X	
42	Phycosperma elegans	Salttair Palm	12	10	Multi		X	
43	Phycosperma elegans	Salttair Palm	12	10	10		X	
43A	Cocos nucifera	Coconut Palm	20	10	10		X	
44	Coccoloba uvifera	Sea Grape	10	4	Multi		X	
45	Flumeria speciosa	Franji Pani	12	6	Multi			X
46	Coccoloba uvifera	Sea Grape	10	5	Multi		X	20
47	Roystonia regia	Royal Palm	40	10	10		X	79



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

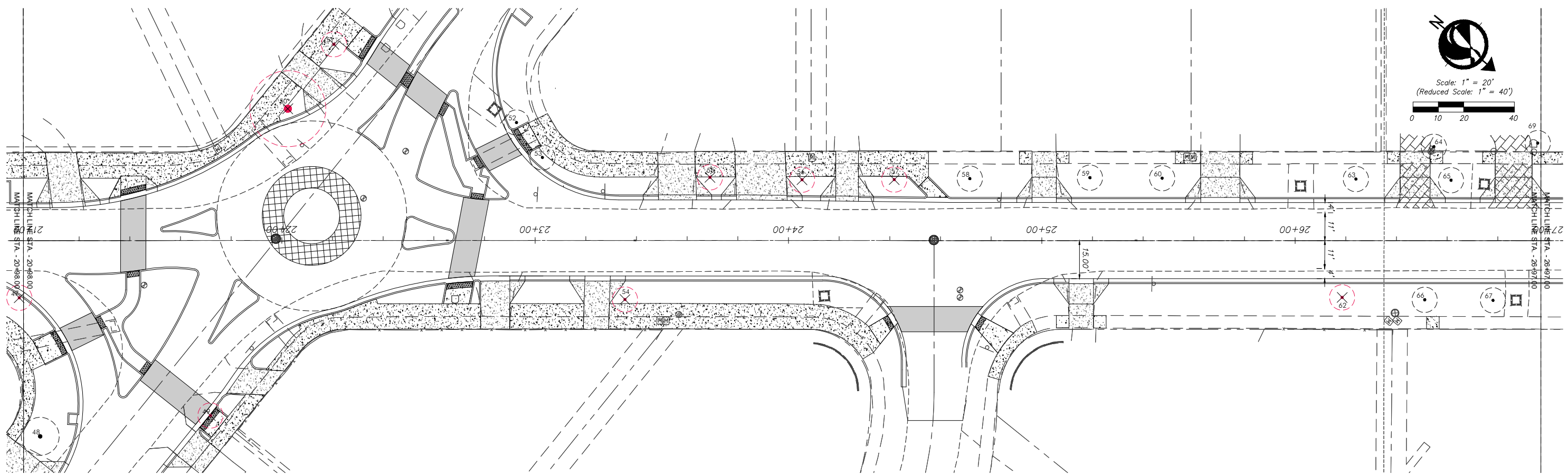
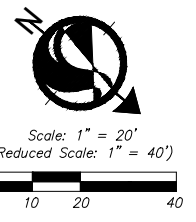
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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 Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

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

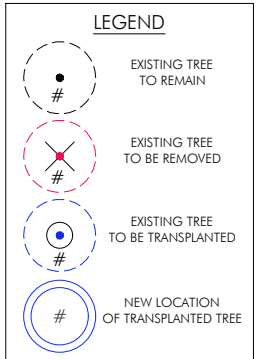
PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT  
 HIGHWAY DIVISION  
 STEPHEN P. CLARK CENTER  
 111 NW 1 ST  
 MIAMI, FLORIDA 33128

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



EXISTING TREE DISPOSITION LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE			DISPOSITION			MITIGATION
			HT. (ft.)	SPD. (ft.)	DBH. (in.)	REMAIN	REMOVE	TRANSPL.	
48	Ficus beniamina	Benjamin Fig	20	15	Multi		X		
49	Dyopsis decaryi	Triangle Palm	15	10	10		X		79
50	Suriana maritima	Mahogany	35	35	25			X	1924
51	Suriana maritima	Mahogany	20	8	8			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 beniamina	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		



REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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 Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

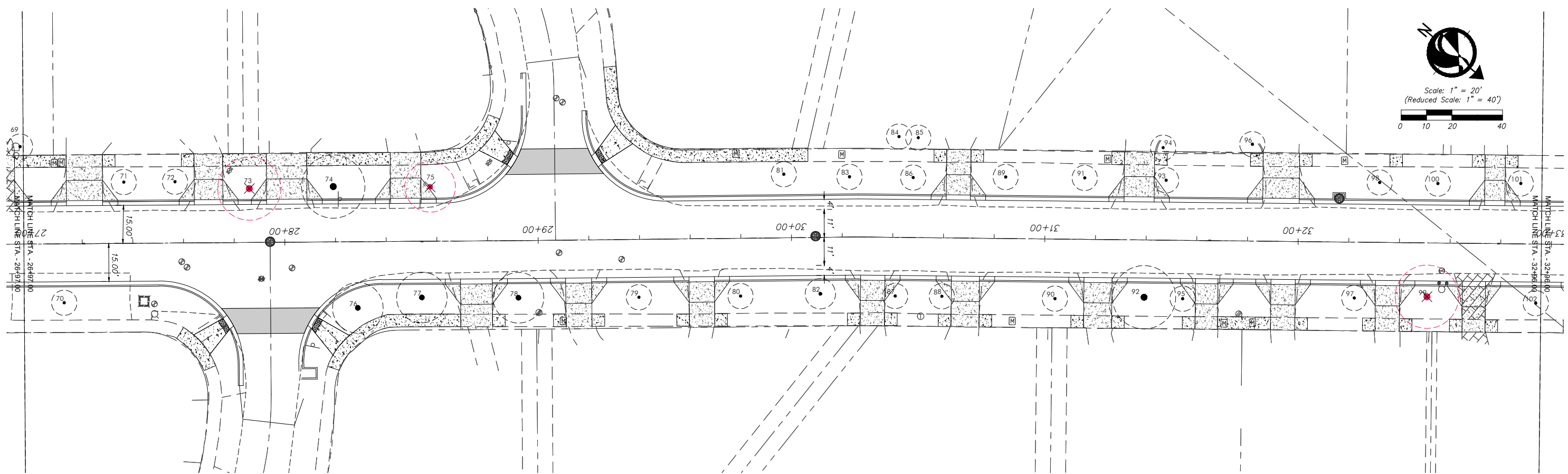
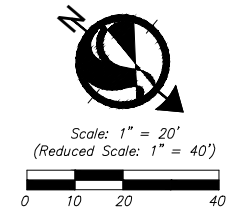
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	C.G.	2-10-2022			
CHECKED BY	K.S.	2-10-2022	CHECKED BY		
SUPERVISED BY:					



PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT  
STEPHEN P. CLARK CENTER  
111 NW 1st St  
MIAMI, FLORIDA 33128

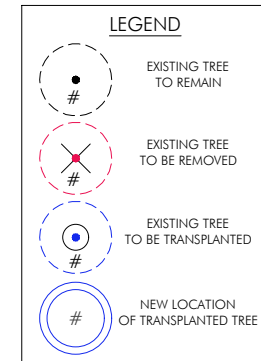
EXISTING TREE DISPOSITION PLAN  
-FRANJO ROAD - 100% CDs-

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



EXISTING TREE DISPOSITION LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE			DISPOSITION			MITIGATION
			HT. (ft)	SPD. (ft)	DBH. (in.)	REMAIN	REMOVE	TRANSPL.	
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 buceros	Black Olive	25	30	22		X		1414
74	Bucida buceros	Black Olive	25	30	21.6	X			
75	Bucida buceros	Black Olive	25	25	18		X		982
76	Bucida buceros	Black Olive	30	20	27	X			
77	Bucida buceros	Black Olive	25	20	20+15+7	X			
78	Bucida buceros	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	Ficus americana	Avocado	12	10	14	X			
83	Roystonea regia	Royal Palm	35	10	10	X			
84	Spathoglaucois romanzoffiana	Queen Palm	12	10	10	X			
85	Spathoglaucois 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	Dalmanella regia	Royal Franciana	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	Coccothrinax palmetto	Coconut Palm	25	10	10	X			
98	Roystonea regia	Royal Palm	25	10	10	X			
99	Quercus virginiana	Live Oak	30	25	22		X		982
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			



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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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 Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

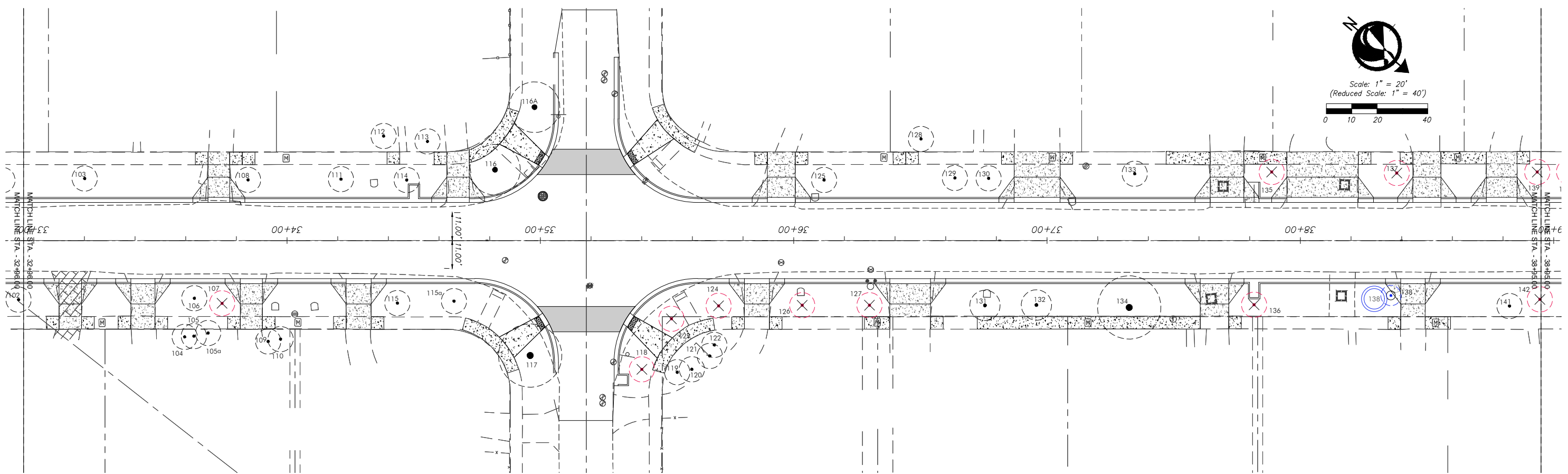
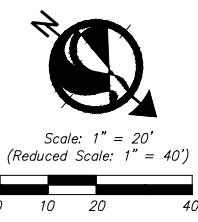
DESIGNED BY	C.G.	DATE	2-10-2022	DRAWN BY		DATE	
CHECKED BY	K.S.	DATE	2-10-2022	CHECKED BY		DATE	
SUPERVISED BY:							



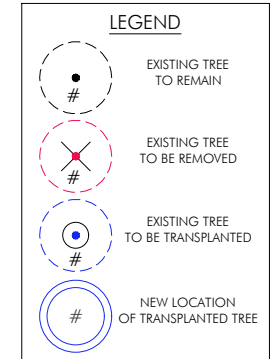
PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT  
 HIGHWAY DIVISION  
 STEPHEN P. CLARK CENTER  
 111 NW 1st St  
 MIAMI, FLORIDA 33128

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





EXISTING TREE DISPOSITION LIST								
KEY	BOTANICAL NAME	COMMON NAME	SIZE		DISPOSITION			MITIGATION
			HT. (ft)	SPD. (ft)	REMAIN	REMOVE	TRANSPL.	
103	Roystonea regia	Royal Palm	30	10		X		
104	Washingtonia robusta	Mexican Fan Palm	4	10		X		
105	Phoenix canariensis	Canary Island Date Palm	20	10		X		
105a	Washingtonia robusta	Mexican Fan Palm	4	10		X		
106	Cocos nucifera	Coconut Palm	20	10		X		
107	Sigatuna romanzoffiana	Queen Palm	8	10		X	X	N/A
108	Roystonea regia	Royal Palm	25	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		X		
112	Cocos nucifera	Coconut Palm	40	10		X		
113	Cocos nucifera	Coconut Palm	40	10		X		
114	Roystonea regia	Royal Palm	30	10		X		
115	Cocos nucifera	Coconut Palm	12	10		X		
115a	Cocos nucifera	Coconut Palm	10	10		X		
116	Quercus virginiana	Live Oak	20	20		17	X	
116A	Quercus virginiana	Live Oak	20	20		12	X	
117	Dalmania Regia	Royal Poinciana	25	25		27	X	
118	Sigatuna 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	Sigatuna romanzoffiana	Queen Palm	15	10		10	X	N/A
124	Sigatuna romanzoffiana	Queen Palm	15	10		10	X	N/A
125	Roystonea regia	Royal Palm	45	10		10	X	
126	Sigatuna romanzoffiana	Queen Palm	12	10		10	X	N/A
127	Sigatuna 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	Sigatuna romanzoffiana	Queen Palm	15	10		10	X	N/A
136	Sigatuna romanzoffiana	Queen Palm	15	10		10	X	N/A
137	Sigatuna romanzoffiana	Queen Palm	15	10		10	X	N/A
138	Bulnesia arborea	Yarwood	8	6		2+2+3+3 2+4	X	
139	Sigatuna romanzoffiana	Queen Palm	20	10		10	X	N/A
140	Sigatuna romanzoffiana	Queen Palm	20	10		10	X	N/A
141	Azadirachta indica	Christmas Palm	12	10		Multi	X	
142	Sigatuna romanzoffiana	Queen Palm	20	10		10	X	N/A



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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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 Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

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

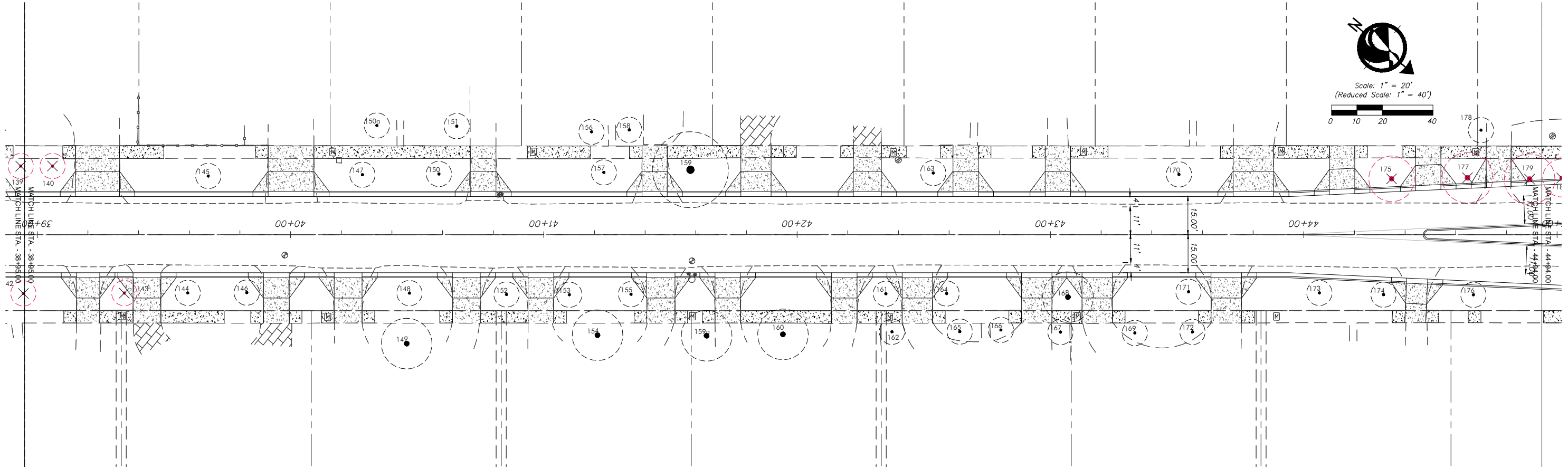
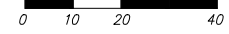
SUPERVISED BY:

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

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

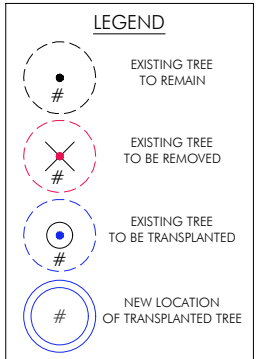


Scale: 1" = 20'  
(Reduced Scale: 1" = 40')



EXISTING TREE DISPOSITION LIST

KEY	BOTANICAL NAME	COMMON NAME	SIZE		DISPOSITION			MITIGATION
			HT. (ft.)	SPD. (ft.)	REMAIN	REMOVE	TRANSPL.	
143	Roystonia regia	Royal Palm	30	10	10			79
144	Roystonia regia	Royal Palm	35	10	10	X		
145	Roystonia regia	Royal Palm	30	10	10		X	
146	Roystonia regia	Royal Palm	35	10	10	X		
147	Roystonia regia	Royal Palm	25	10	10	X		
148	Roystonia regia	Royal Palm	35	10	10	X		
149	Bucida buceras	Black Olive	35	20	27	X		
150	Roystonia 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	Roystonia regia	Royal Palm	35	10	10	X		
153	Roystonia regia	Royal Palm	40	10	10	X		
154	Delonix Regia	Royal Poinciana	25	25	20	X		
155	Roystonia regia	Royal Palm	30	10	10	X		
156	Adonidia merrillii	Christmas Palm	12	10	10	X		
157	Roystonia regia	Royal Palm	40	10	10	X		
158	Adonidia merrillii	Christmas Palm	12	10	10	X		
159a	Schefflera octinophylla	Umbrella Tree	30	20	25.2	X		
159	Ficus aurea	Strangler Fig	35	25	49.8	X		
160	Brachyia javanica	Bishopwood	30	20	35	X		
161	Roystonia regia	Royal Palm	30	10	10	X		
162	Ficus aurea	Strangler Fig	35	25	49.8	X		
163	Roystonia regia	Royal Palm	25	10	10	X		
164	Roystonia 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	Sweetenia mahagoni	Mahogany	25	20	22.7	X		
169	Adonidia merrillii	Christmas Palm	7	10	Multi	X		
170	Roystonia regia	Royal Palm	35	10	10	X		
171	Roystonia regia	Royal Palm	30	10	10	X		
172	Adonidia merrillii	Christmas Palm	7	10	Multi	X		
173	Roystonia regia	Royal Palm	30	10	10	X		
174	Roystonia regia	Royal Palm	30	10	10	X		
175	Bucida buceras	Black Olive	20	18	16.7		X	254
176	Roystonia 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



REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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 Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

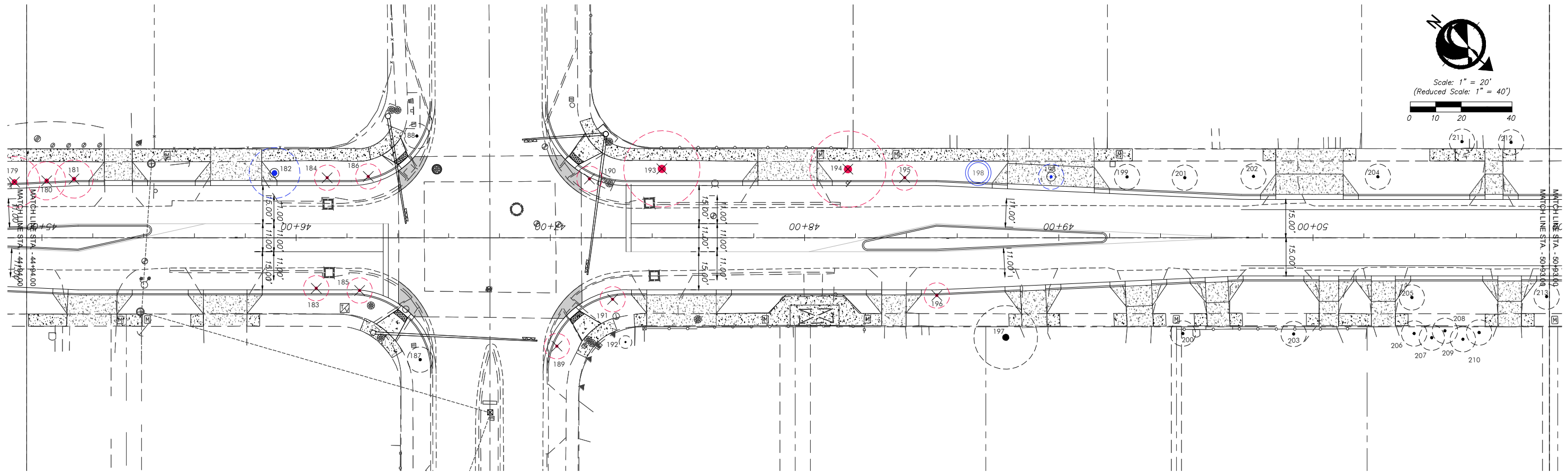
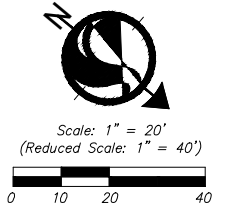
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	C.G.	2-10-2022			
CHECKED BY	K.S.	2-10-2022	CHECKED BY		
SUPERVISED BY:					



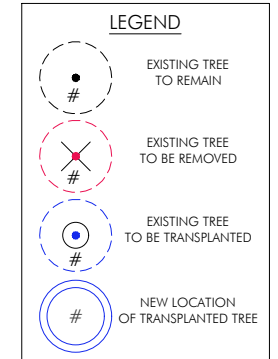
PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT  
HIGHWAY DIVISION  
STEPHEN P. CLARK CENTER  
111 NW 1st St  
MIAMI, FLORIDA 33128

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

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



EXISTING TREE DISPOSITION LIST								
KEY	BOTANICAL NAME	COMMON NAME	SIZE		DISPOSITION			MITIGATION
			HT. (ft.)	SPD. (ft.)	REMAIN	REMOVE	TRANSPL.	
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	Roystonia regia	Royal Palm	40	10	10		X	79
196	Roystonia regia	Royal Palm	40	10	10		X	79
197	Pithecellobium unguis-cati	Cat's Claw	30	25	25+20	X		
198	Roystonia regia	Royal Palm	35	10	10		X	
199	Roystonia regia	Royal Palm	35	10	10	X		
200	Adonisla Merrillii	Christmas Palm	15	10	10		X	
201	Roystonia regia	Royal Palm	40	10	10		X	
202	Roystonia regia	Royal Palm	40	10	10		X	
203	Roystonia regia	Royal Palm	35	10	10		X	
204	Roystonia regia	Royal Palm	35	10	10		X	
205	Roystonia regia	Royal Palm	35	10	10		X	
206	Syagus romanzoffiana	Queen Palm	15	10	10		X	
207	Syagus romanzoffiana	Queen Palm	15	10	10		X	
208	Syagus romanzoffiana	Queen Palm	15	10	10		X	
209	Syagus romanzoffiana	Queen Palm	15	10	10		X	
210	Syagus romanzoffiana	Queen Palm	15	10	10		X	
211	Adonisla Merrillii	Christmas Palm	12	10	Multi		X	
212	Adonisla Merrillii	Christmas Palm	12	10	Multi		X	
213	Roystonia regia	Royal Palm	35	10	10		X	



REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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 Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

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

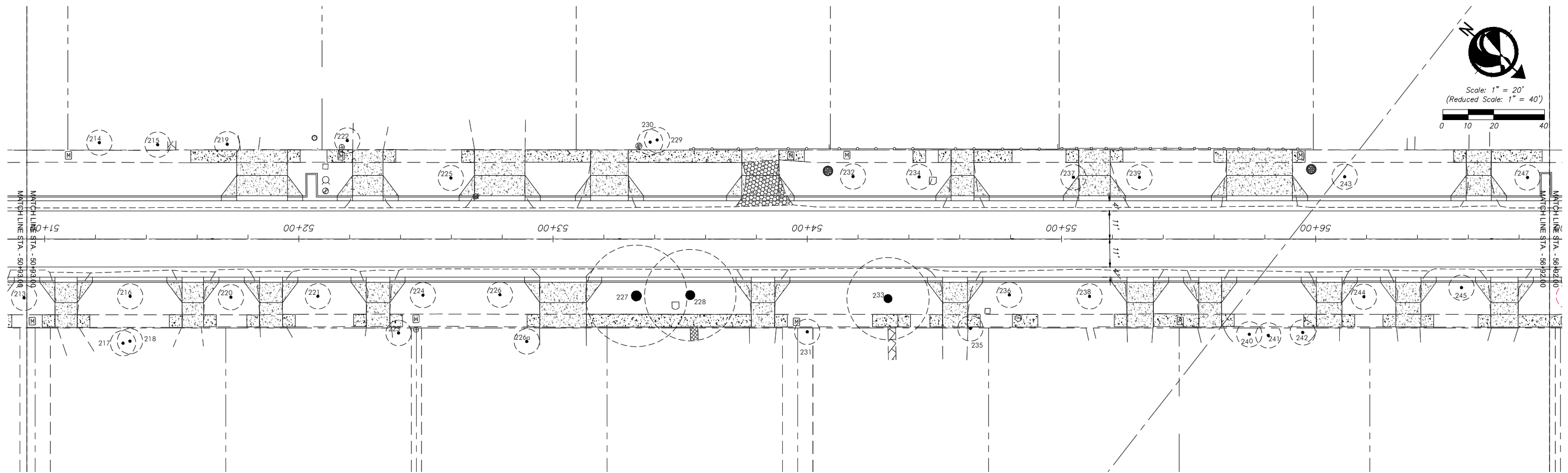
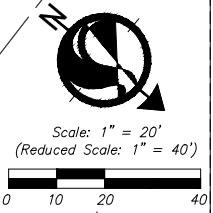


PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT  
 STEPHEN P. CLARK CENTER  
 111 NW 1st St  
 MIAMI, FLORIDA 33128

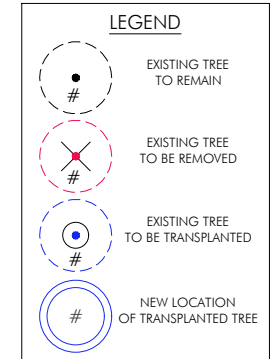
EXISTING TREE DISPOSITION PLAN  
 -FRANJO ROAD - 100% CDs-

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





EXISTING TREE DISPOSITION LIST								
KEY	BOTANICAL NAME	COMMON NAME	SIZE		DISPOSITION			MITIGATION
			HT. (ft.)	SPD. (ft.)	DBH. (in.)	REMAIN	REMOVE	
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		
227	Bucida bucerus	Black Olive	30	40	16.7	X		
228	Bucida bucerus	Black Olive	35	40	10	X		
229	Phycospermum elegans	Saltwater Palm	10	10	10	X		
230	Bucida bucerus	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 bucerus	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	Smilax nivalis	White Star 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		



PLOTTED BY: KIEHL SEMLER DATE: 12/14/2022 1:52 PM  
 CREATED: 2022-12-14 - C:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\USA SHEETS.DWG

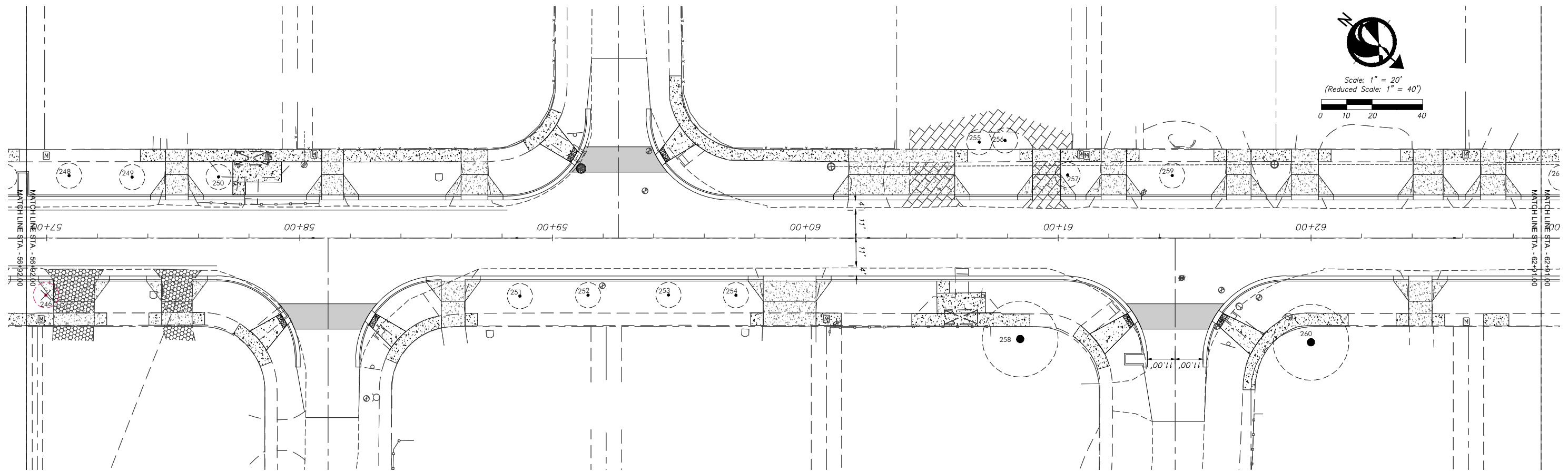
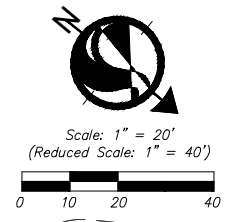
REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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

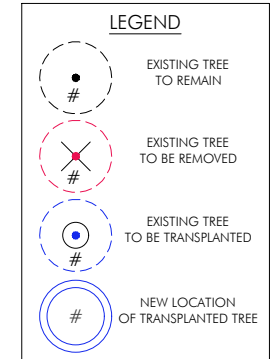
DESIGNED BY	C.G.	DATE	2-10-2022	DRAWN BY	
CHECKED BY	K.S.	DATE	2-10-2022	CHECKED BY	
SUPERVISED BY					

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

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



KEY	BOTANICAL NAME	COMMON NAME	SIZE			DISPOSITION			MITIGATION S.F. CANOPY
			HT. (ft)	SPD. (ft)	DBH. (in.)	REMAIN	REMOVE	TRANSPL.	
248	Roystonia regia	Royal Palm	30	10	10		X		
249	Roystonia regia	Royal Palm	30	10	10		X		
250	Roystonia regia	Royal Palm	30	10	10		X		
251	Roystonia regia	Royal Palm	35	10	10		X		
252	Roystonia regia	Royal Palm	35	10	10		X		
253	Roystonia regia	Royal Palm	35	10	10		X		
254	Roystonia 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	Roystonia regia	Royal Palm	30	10	10		X		
258	Roystonia regia	Royal Palm	35	10	10		X		
259	Dalmania Regia	Royal Palmetto	20	30	31		X		
260	Ficus aurea	Strangler Fig	30	30	50		X		



**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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 Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

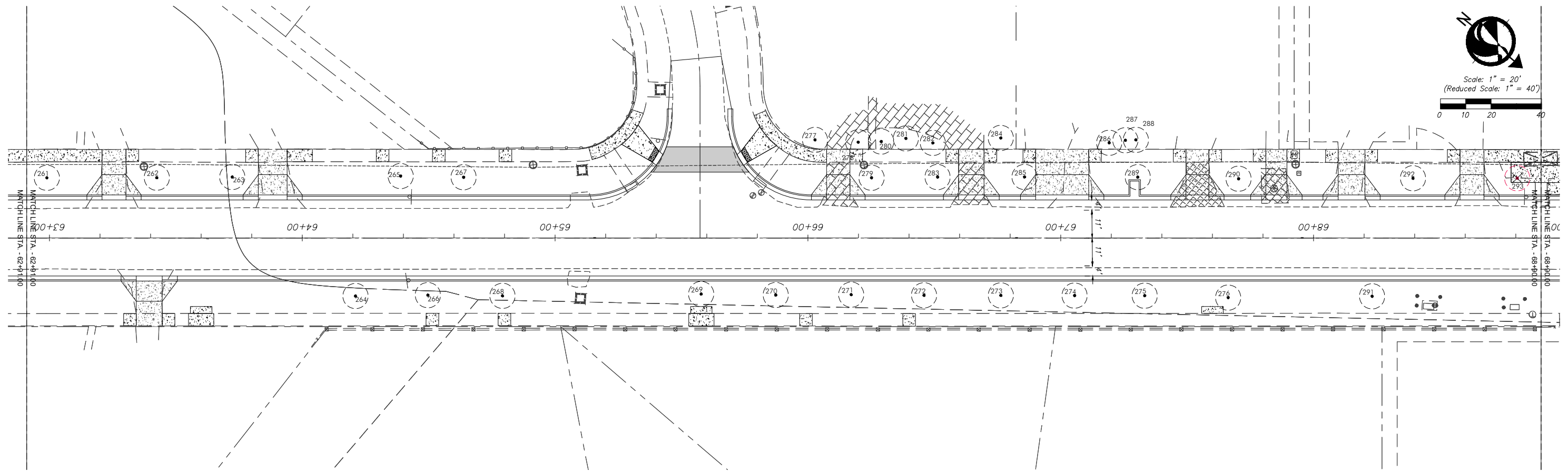
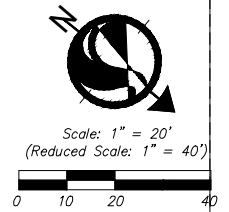
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	C.G.	2-10-2022			
CHECKED BY	K.S.	2-10-2022	CHECKED BY		
SUPERVISED BY:					



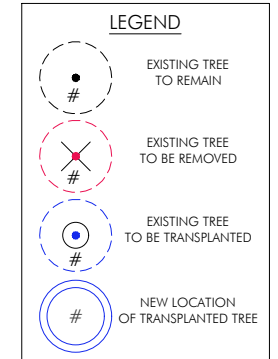
PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT  
HIGHWAY DIVISION  
STEPHEN P. CLARK CENTER  
111 NW 1st St  
MIAMI, FLORIDA 33128

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

PLOTTED BY: KIEHL SEMLER DATE: 12/14/2022 1:52 PM  
CREATED: 2022-12-14 - C:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\USA SHEETS.DWG



EXISTING TREE DISPOSITION LIST								
KEY	BOTANICAL NAME	COMMON NAME	SIZE		DISPOSITION			MITIGATION
			HT. (ft.)	SPD. (ft.)	REMAIN	REMOVE	TRANSPL.	
261	Roystonia regia	Royal Palm	40	10	10	X		
262	Roystonia regia	Royal Palm	35	10	10	X		
263	Roystonia regia	Royal Palm	35	10	10	X		
264	Roystonia regia	Royal Palm	35	10	10	X		
265	Roystonia regia	Royal Palm	35	10	10	X		
266	Roystonia regia	Royal Palm	40	10	10	X		
267	Roystonia regia	Royal Palm	35	10	10	X		
268	Roystonia regia	Royal Palm	35	10	10	X		
269	Roystonia regia	Royal Palm	35	10	10	X		
270	Roystonia regia	Royal Palm	35	10	10	X		
271	Roystonia regia	Royal Palm	35	10	10	X		
272	Roystonia regia	Royal Palm	35	10	10	X		
273	Roystonia regia	Royal Palm	35	10	10	X		
274	Roystonia regia	Royal Palm	35	10	10	X		
275	Roystonia regia	Royal Palm	35	10	10	X		
276	Roystonia regia	Royal Palm	35	10	10	X		
277	Syagus romanzoffiana	Queen Palm	20	10	10	X		
278	Phoenix roebelenii	Pigmy Date Palm	15	10	10	X		
279	Roystonia 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	Roystonia regia	Royal Palm	35	10	10	X		
284	Syagus romanzoffiana	Queen Palm	25	10	10	X		
285	Roystonia 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	Roystonia regia	Royal Palm	25	10	10	X		
290	Roystonia regia	Royal Palm	25	10	10	X		
291	Roystonia regia	Royal Palm	30	10	10	X		
292	Roystonia regia	Royal Palm	30	10	10	X		
293	Roystonia regia	Royal Palm	30	10	10	X	X	79



PLOTTED BY: KIEHL SEMLER DATE: 12/14/2022 1:52 PM  
 CREATOR: 2022-12-14 - C:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\USA SHEETS.DWG

REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

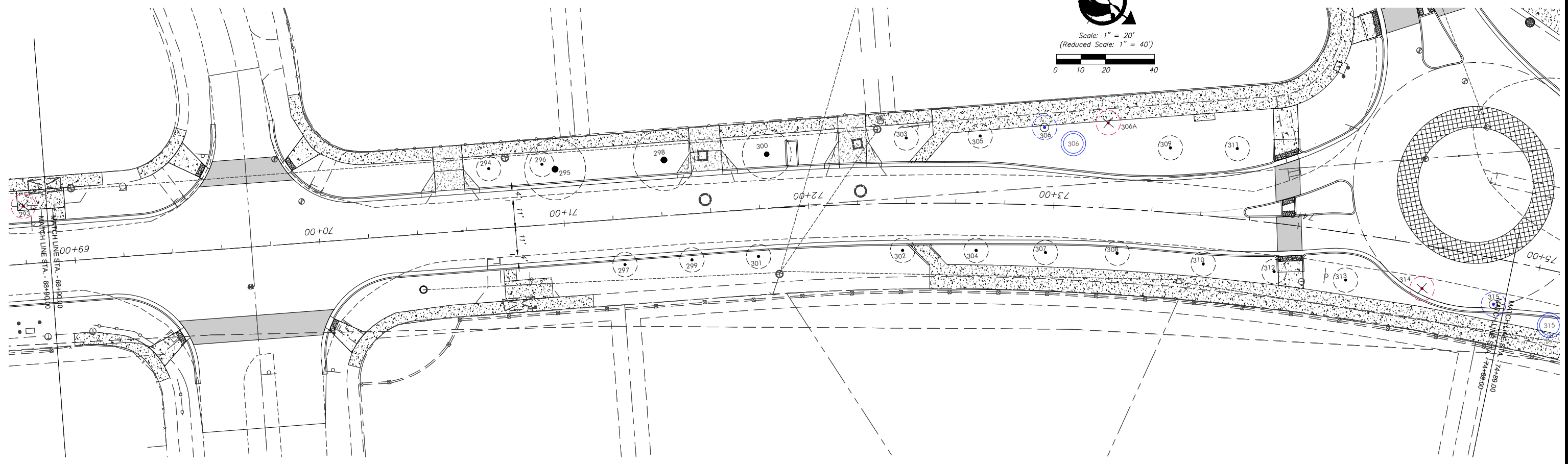
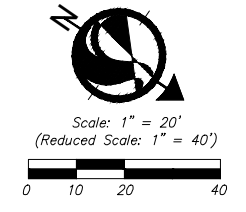
901 Ponce de Leon Blvd, Suite 900  
 Coral Gables, Florida 33134  
 www.stantec.com

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

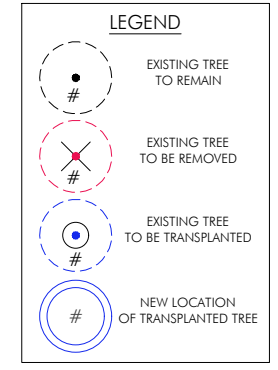
PUBLIC WORKS AND WASTE  
 MANAGEMENT DEPARTMENT  
 HIGHWAY DIVISION  
 STEPHEN P. CLARK CENTER  
 111 NW 1st St  
 MIAMI, FLORIDA 33128

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





EXISTING TREE DISPOSITION LIST								
KEY	BOTANICAL NAME	COMMON NAME	SIZE		DISPOSITION			MITIGATION
			HT. (ft.)	SPD. (ft.)	REMAIN	REMOVE	TRANSPL.	
294	Roystonea regia	Royal Palm	40	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	



PLOTTED BY: KIEHL SEMLER DATE: 12/14/2022 1:52 PM  
 CREATOR: 2022-12-14 - C:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\USA SHEETS.DWG

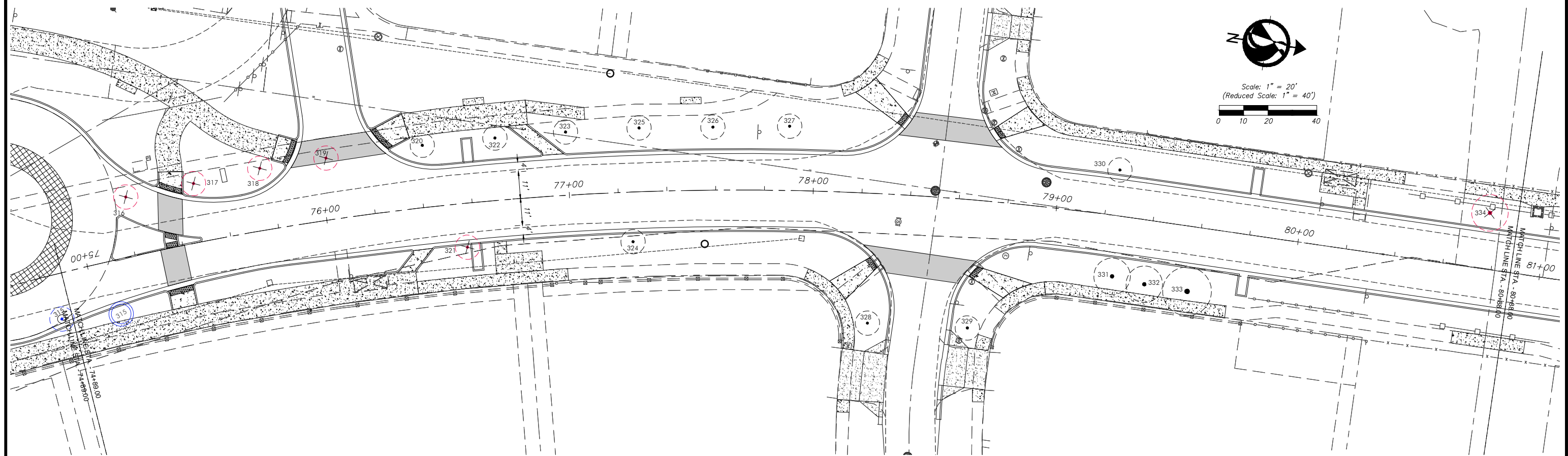
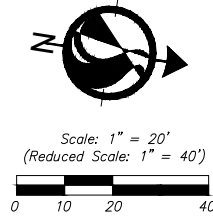
REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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.

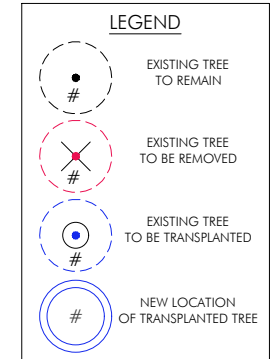
DESIGNED BY	C.G.	DATE	2-10-2022	DRAWN BY		DATE	
CHECKED BY	K.S.	DATE	2-10-2022	CHECKED BY		DATE	
SUPERVISED BY:							

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

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



EXISTING TREE DISPOSITION LIST								
KEY	BOTANICAL NAME	COMMON NAME	SIZE			DISPOSITION		MITIGATION
			HT. (ft.)	SPD. (ft.)	DBH. (in.)	REMAIN	REMOVE	
316	Roystonea regia	Royal Palm	30	10	10		X	75
317	Roystonea regia	Royal Palm	30	10	10		X	75
318	Roystonea regia	Royal Palm	30	10	10		X	75
319	Roystonea regia	Royal Palm	25	10	10		X	75
320	Roystonea regia	Royal Palm	35	10	10	X	X	
321	Roystonea regia	Royal Palm	35	10	10		X	75
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 robelanii	Pigmy Date Palm	12	10	Multi	X		
329	Phoenix robelanii	Pigmy Date Palm	12	10	Multi	X		
330	Roystonea regia	Royal Palm	35	10	10	X		
331	Callistemon viminalis	Bottle Brush	15	10	15	X		
332	Callistemon viminalis	Bottle Brush	15	15	38	X		
333	Callistemon viminalis	Bottle Brush	15	20	38.8	X		
334	Bauhinia blakeana	Hong Kong Orchid	20	15	Multi		X	N/A



PLOTTED BY: KIEHL SEMLER DATE: 12/14/2022 1:52 PM  
 CREATED: 2022-12-14 - C:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\USA SHEETS.DWG

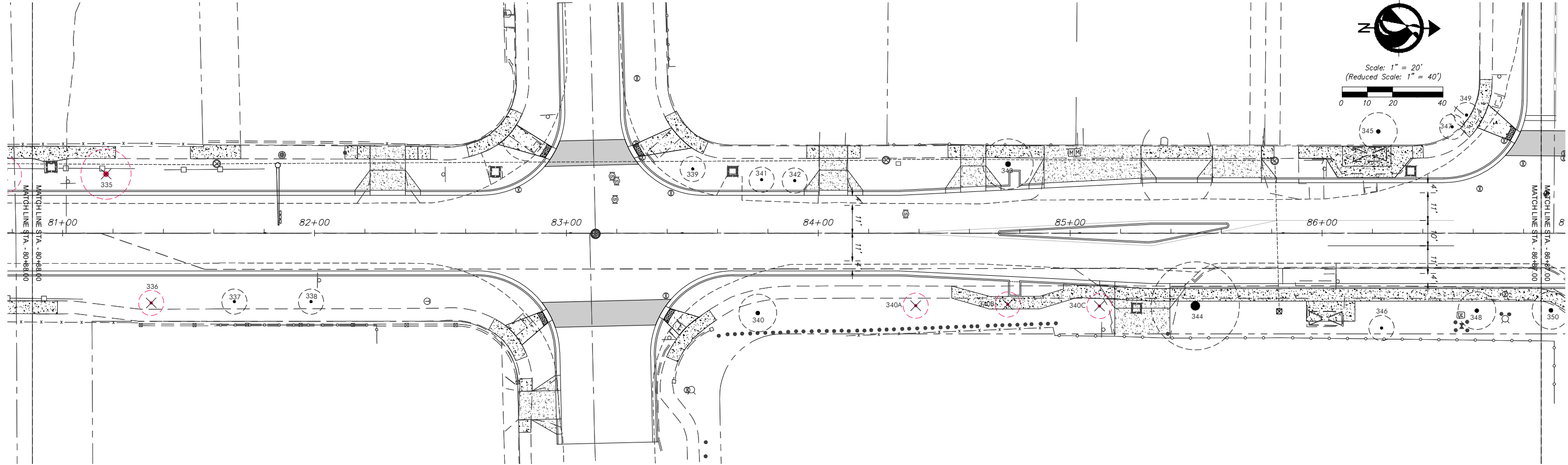
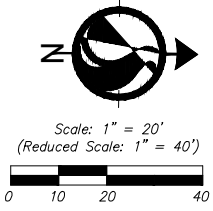
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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

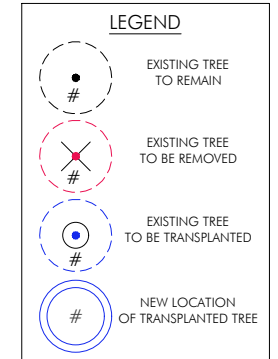
DESIGNED BY	C.G.	DATE	2-10-2022	DRAWN BY	
CHECKED BY	K.S.	DATE	2-10-2022	CHECKED BY	
SUPERVISED BY:					

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

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



EXISTING TREE DISPOSITION LIST								
KEY	BOTANICAL NAME	COMMON NAME	SIZE		DISPOSITION			MITIGATION
			HT. (ft.)	SPD. (ft)	DBH. (in.)	REMAIN	REMOVE	
335	Bauhinia blakeana	Hong Kong Orchid	20	20	Multi		X	N/A
336	DEAD						X	N/A
337	Roystonia regia	Royal Palm	35	10	10		X	
338	Roystonia regia	Royal Palm	40	10	10		X	
339	Phoenix roebelenii	Pigmy 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	Pigmy Date Palm	5	10	10		X	
342	Phoenix roebelenii	Pigmy 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 caribba	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	



**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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 Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

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

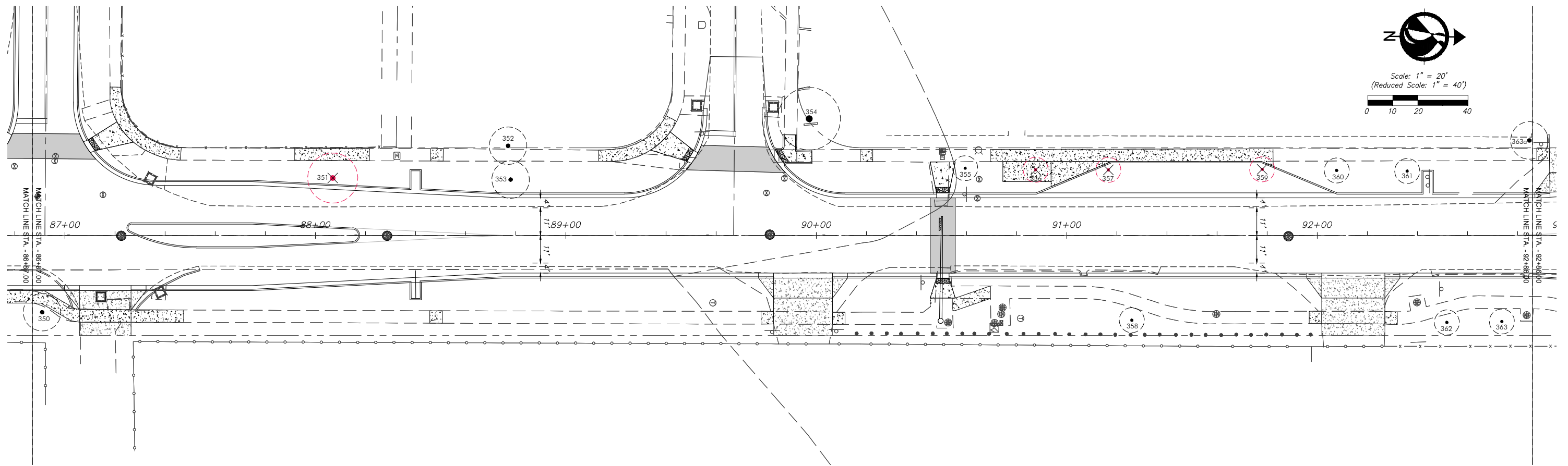
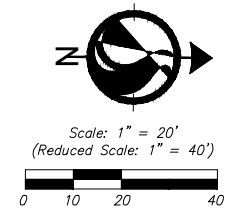


PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT  
HIGHWAY DIVISION  
STEPHEN P. CLARK CENTER  
111 NW 1<sup>ST</sup> ST  
MIAMI, FLORIDA 33128

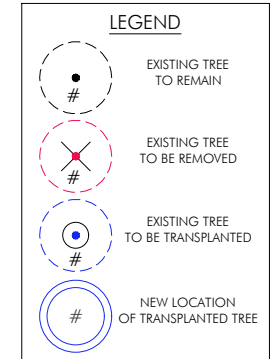
**EXISTING TREE DISPOSITION PLAN  
-FRANJO ROAD - 100% CDs-**

PLOTTED BY: KIEHL SEMLER DATE: 12/14/2022 1:52 PM  
CREATED: 2022-12-14 - C:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\USA SHEETS.DWG





EXISTING TREE DISPOSITION LIST									
KEY	BOTANICAL NAME	COMMON NAME	SIZE			DISPOSITION			MITIGATION
			HT. (ft.)	SPD. (ft.)	DBH. (in.)	REMAIN	REMOVE	TRANSPL.	
350	Quercus virginiana	Live Oak	25	25	15		X		
351	Bursera simaruba	Gumbo Limbo	20	20	Multi		X		31.4
352	Bursera simaruba	Gumbo Limbo	25	15	1.5+1.3	X			
353	Bursera simaruba	Gumbo Limbo	25	15	Multi	X			
354	Bucida buceras	Black Olive	35	25	24.3		X		
355	Roystonia regia	Royal Palm	20	10	10			X	79
356	Roystonia regia	Royal Palm	30	10	10			X	79
357	Roystonia regia	Royal Palm	35	10	10			X	
358	Roystonia regia	Royal Palm	25	10	10	X			
359	Roystonia regia	Royal Palm	40	10	10		X		79
360	Roystonia regia	Royal Palm	25	10	10	X			
361	Roystonia regia	Royal Palm	35	10	10	X			
362	Roystonia regia	Royal Palm	20	10	10	X			
363	Roystonia regia	Royal Palm	35	10	10	X			
363a	Bucida buceras	Black Olive	25	20	18.8		X		



PLOTTED BY: KIEHL SEMLER DATE: 12/14/2022 1:52 PM  
 CREATED: 2022-12-14 - C:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\USA SHEETS.DWG

REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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

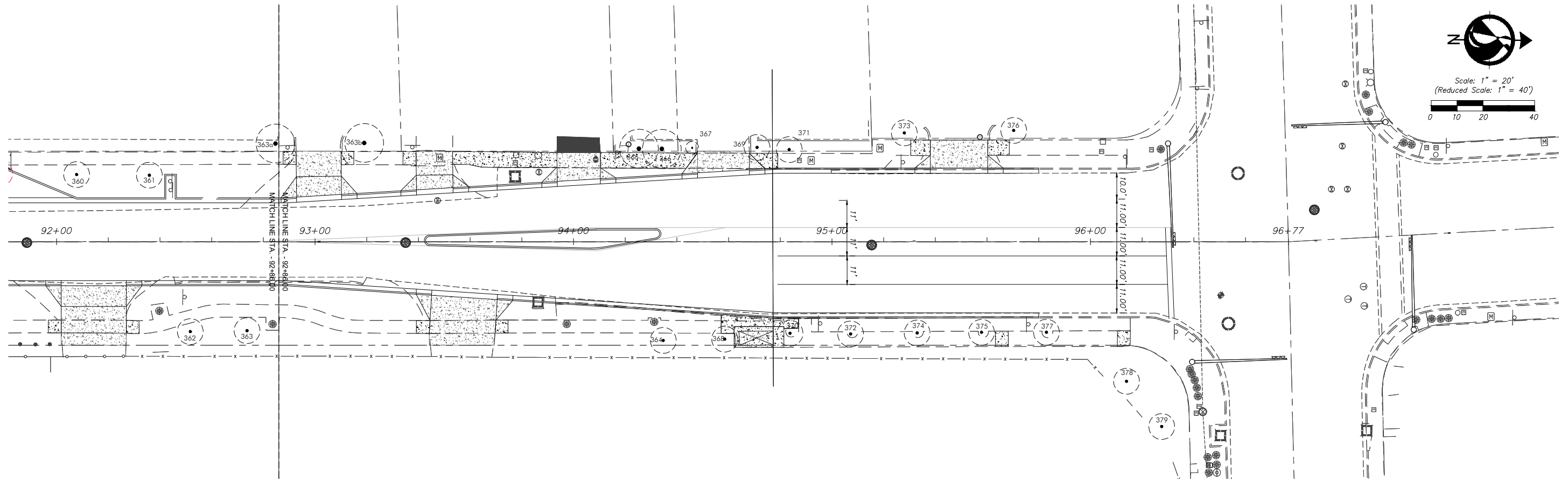
DESIGNED BY	C.G.	DATE	2-10-2022	DRAWN BY	
CHECKED BY	K.S.	DATE	2-10-2022	CHECKED BY	
SUPERVISED BY:					

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

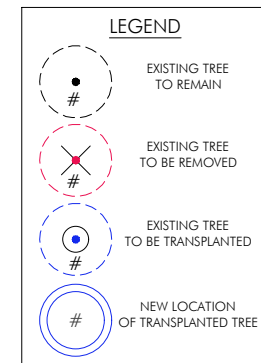
**EXISTING TREE DISPOSITION PLAN**  
**-FRANJO ROAD - 100% CDs-**



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



KEY	BOTANICAL NAME	COMMON NAME	SIZE			DISPOSITION			MITIGATION
			HT. (ft.)	SPD. (ft.)	DBH. (in.)	REMAIN	REMOVE	TRANSPL.	
363b	<i>Bucida buceros</i>	Black Olive	30	25	22.8		X		
364	<i>Roystonia regia</i>	Royal Palm	30	10	10		X		
365	<i>Quercus virginiana</i>	Live Oak	18	15	11		X		
366	<i>Quercus virginiana</i>	Live Oak	15	15	10		X		
367	<i>Quercus virginiana</i>	Live Oak	15	5	3-2		X		
368	<i>Roystonia regia</i>	Royal Palm	35	10	10		X		
369	<i>Quercus virginiana</i>	Live Oak	15	8	5.5		X		
370	<i>Roystonia regia</i>	Royal Palm	22	10	10		X		
371	<i>Quercus virginiana</i>	Live Oak	15	10	6		X		
372	<i>Roystonia regia</i>	Royal Palm	20	10	10		X		
373	<i>Psychosperma elegans</i>	Saltire Palm	15	10	Multi		X		
374	<i>Roystonia regia</i>	Royal Palm	35	10	10		X		
375	<i>Roystonia regia</i>	Royal Palm	30	10	10		X		
376	<i>Psychosperma elegans</i>	Saltire Palm	15	10	Multi		X		
377	<i>Roystonia regia</i>	Royal Palm	20	10	10		X		
378	<i>Phoenix canariensis</i>	Canary Island Date Palm	16	10	10		X		
379	<i>Phoenix canariensis</i>	Canary Island Date Palm	16	10	10		X		



PLOTTED BY: KIEHL SEMLER DATE: 12/14/2022 1:52 PM  
 CREATED: 2022-12-14 - C:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\USA SHEETS.DWG

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

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



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

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

TOTAL CANOPY S.F. TO BE REPLACED			15,099
<b>*Mitigation provided (see plant list for species):</b>			
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

PLOTTED BY: KIEHL SEMLER DATE: 12/14/2022 1:52 PM  
CREATED: 2022-12-14 - C:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\USA SHEETS.DWG

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY



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.

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



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.

PLOTTED BY: KEHL SEMLER DATE: 12/14/2022 1:52 PM  
CREATED: 2022-12-14 - C:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\USA SHEETS.DWG

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



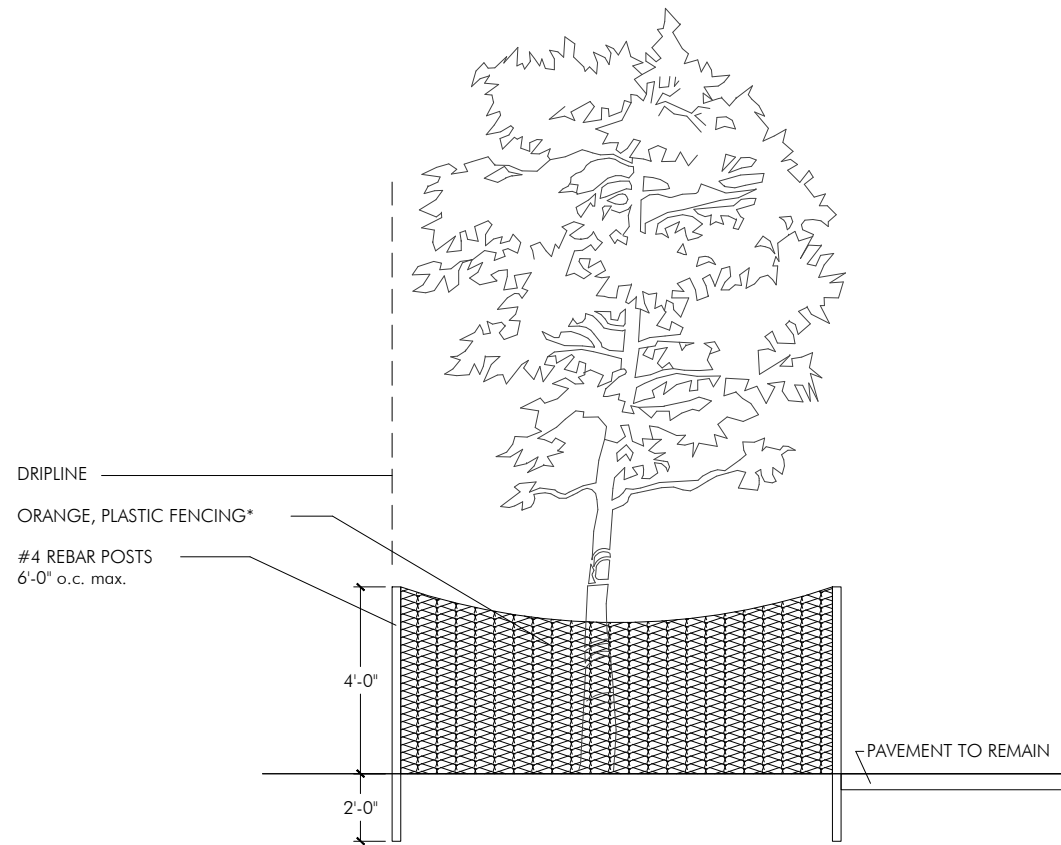
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

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



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

TREE TRANSPLANT SPECS  
-FRANJO ROAD - 100% CDs-



\*LIMITS OF TREE PROTECTION 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.

PLOTTED BY: KIEHL SEMLER DATE: 12/14/2022 1:52 PM  
CREATED: 2022-12-14 - C:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\USA SHEETS.DWG

REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

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



PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT  
HIGHWAY DIVISION  
STEPHEN P. CLARK CENTER  
111 NW 1<sup>ST</sup> ST  
MIAMI, FLORIDA 33128

TREE PROTECTION DETAIL  
-FRANJO ROAD - 100% CDs-

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

PLOTTED BY: KEHL SEMLER DATE: 12/14/2022 1:52 PM  
CREATED: 2022-12-14 - C:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\USA SHEETS.DWG

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY



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.

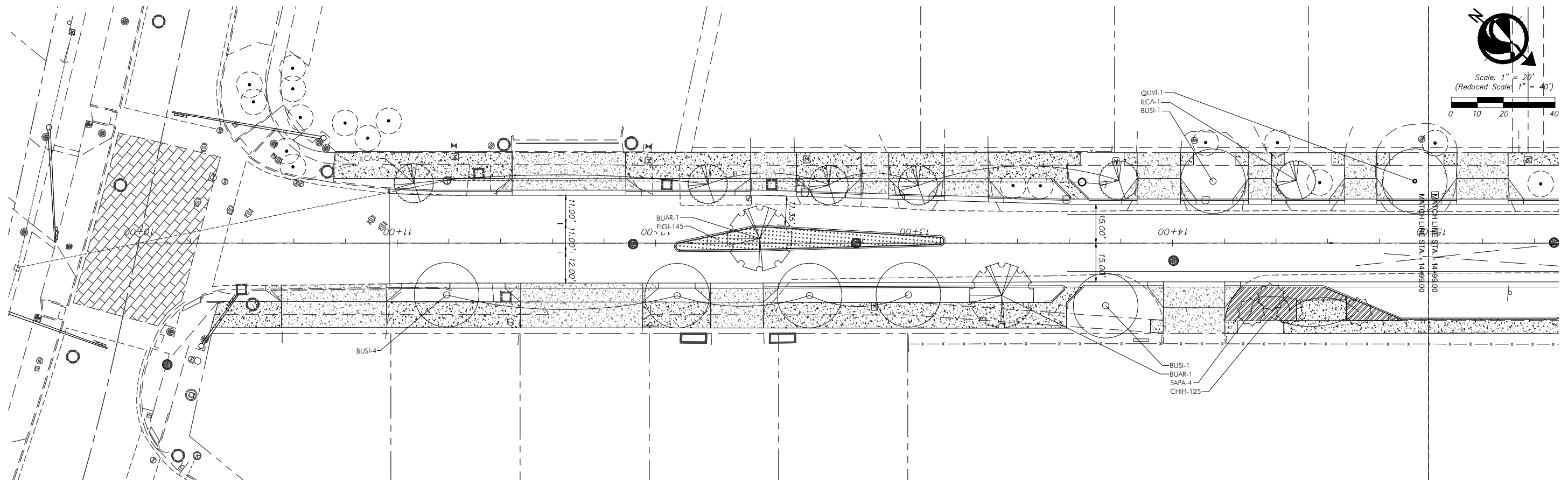
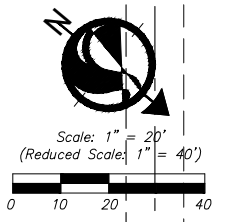
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHECKED BY	C.G.	2-10-2022	CHECKED BY	K.S.	2-10-2022
SUPERVISED BY:					



PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT  
HIGHWAY DIVISION  
STEPHEN P. CLARK CENTER  
111 NW 1<sup>ST</sup> ST  
MIAMI, FLORIDA 33128

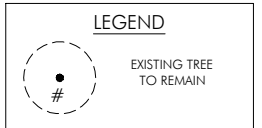
PROPOSED PLANT LIST  
-FRANJO ROAD - 100% CDs-





**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
QUMI	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 capillaris	...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.



**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

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

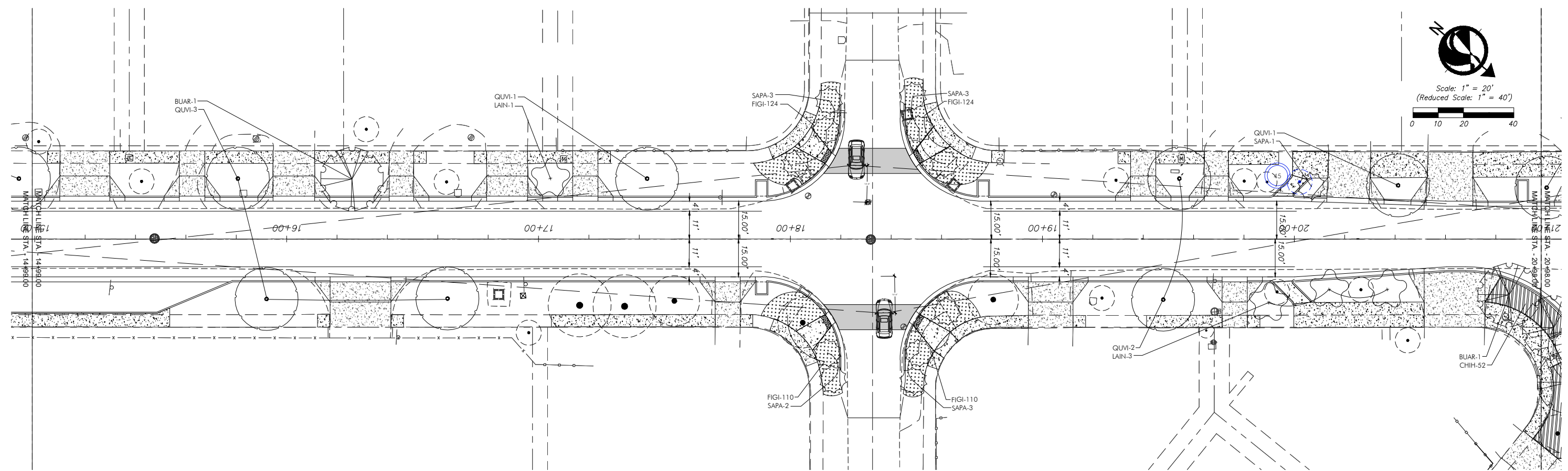
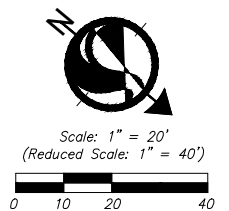
SUPERVISED BY:



PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT  
 STEPHEN P. CLARK CENTER  
 111 NW 1st ST  
 MIAMI, FLORIDA 33128

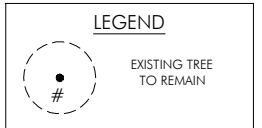
**PLANTING PLAN  
 -FRANJO ROAD - 100% CDs-**

PLOTTED BY: KIEHL SEMLER DATE: 12/14/2022 1:53 PM  
 CREATOR: 2022-12-14 - C:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\SSA SHEETS.DWG



**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 latifolium	...Wild Tamarind	12' tall x 5' spread, 2 1/2" cal., 4' CT min
QUM	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.



**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

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

SUPERVISED BY:



PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT  
 STEPHEN P. CLARK CENTER  
 111 NW 1st St  
 MIAMI, FLORIDA 33128

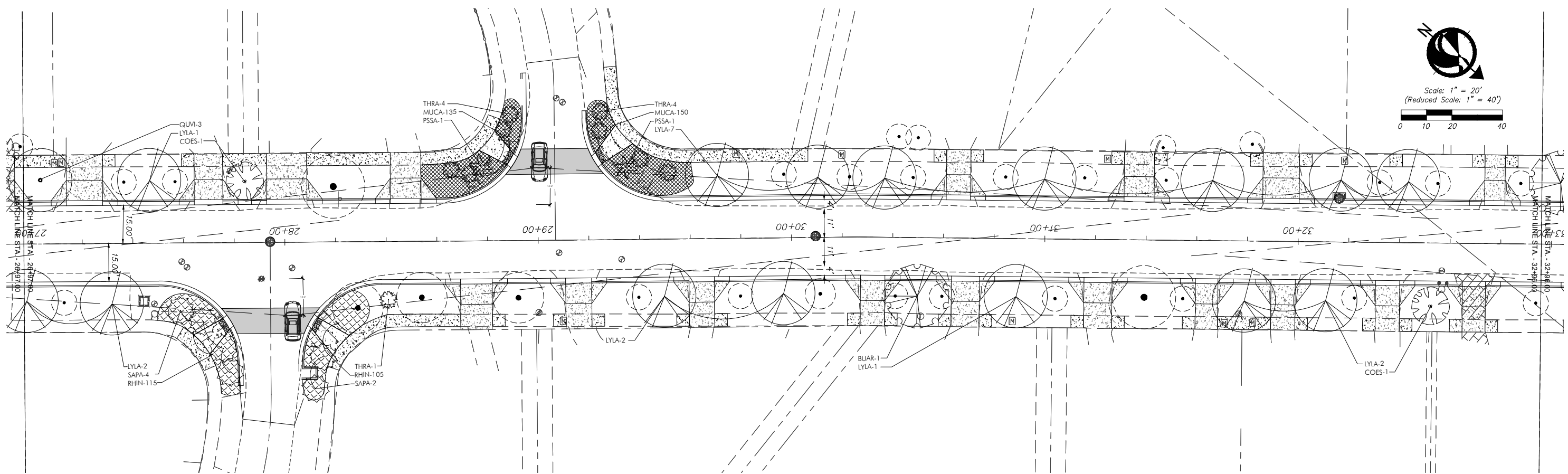
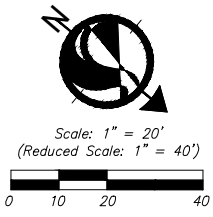
**PLANTING PLAN**  
**-FRANJO ROAD - 100% CDs-**

PLOTTED BY: KEHL SEMLER DATE: 12/14/2022 1:53 PM  
 CREATED: 2022-12-14 - C:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\SSA SHEETS.DWG



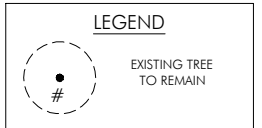






**PLANT LIST**

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
IAIN	Lagerstroemia indica "Muscogee"	...Crepe Myrtle	12' tall x 5' spread, 2 1/2" cal., 4' CT min, Purple Flowers
LYLA	Lysiloma latifolium	...Wild Tamarind	12' tall x 5' spread, 2 1/2" cal., 4' CT min
QUM	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.



**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

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

SUPERVISED BY:

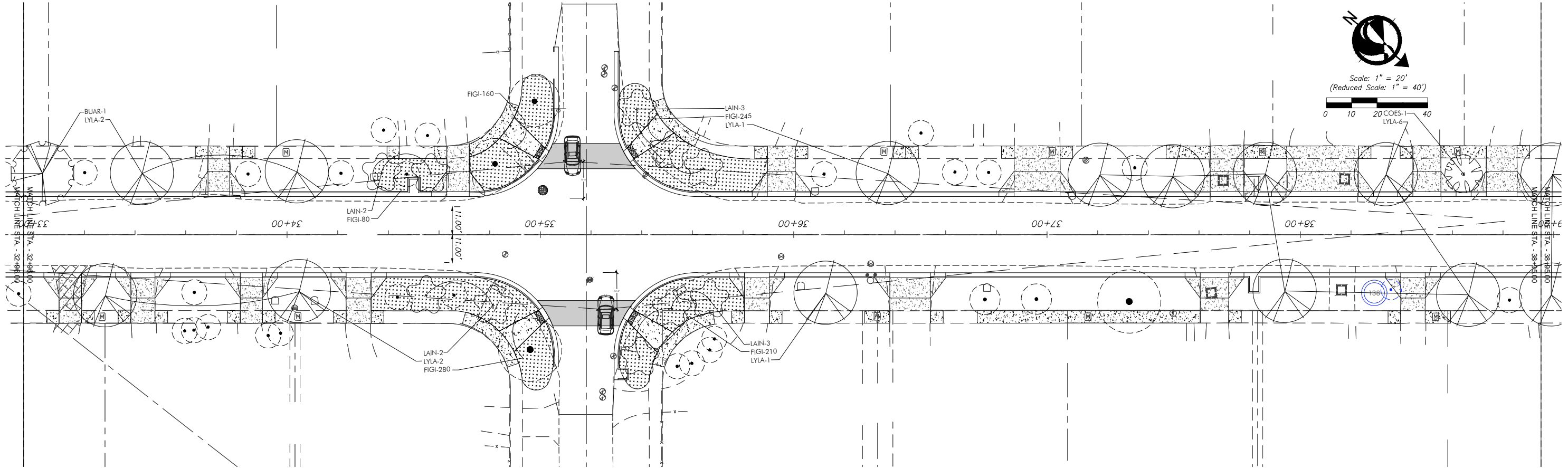
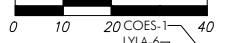


**PLANTING PLAN**  
**-FRANJO ROAD - 100% CDs-**

PLOTTED BY: KIEHL SEMLER DATE: 12/14/2022 1:53 PM  
 CREATED: 2022-12-14 - C:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\SSA SHEETS.DWG

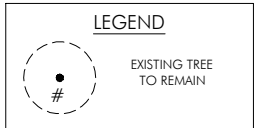


Scale: 1" = 20'  
 (Reduced Scale: 1" = 40')



**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 latifolium	...Wild Tamarind	12' tall x 5' spread, 2 1/2" cal., 4' CT min
QUM	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.



**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

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

SUPERVISED BY:



PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT  
 HIGHWAY DIVISION  
 STEPHEN P. CLARK CENTER  
 111 NW 1<sup>ST</sup> ST  
 MIAMI, FLORIDA 33128

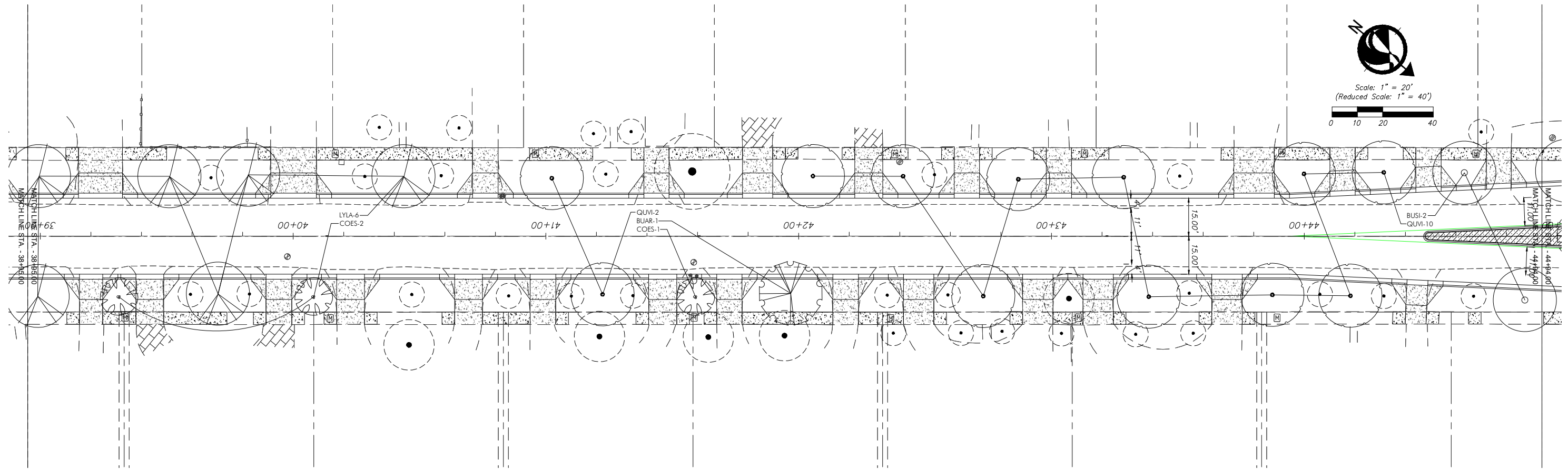
**PLANTING PLAN**  
**-FRANJO ROAD - 100% CDs-**

PLOTTED BY: KEHL SEMLER DATE: 12/14/2022 1:53 PM  
 CREATED: 2022-12-14 - C:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\SSA SHEETS.DWG



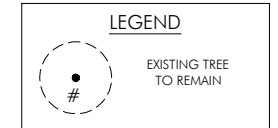


Scale: 1" = 20'  
 (Reduced Scale: 1" = 40')



**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
QUMI	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.



**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

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

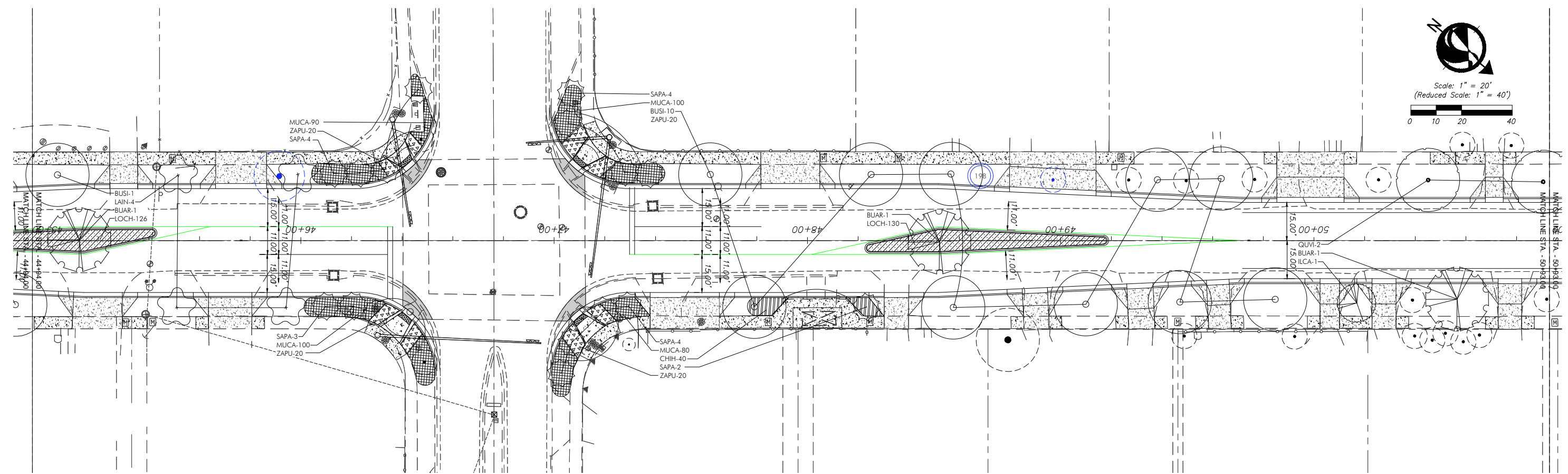
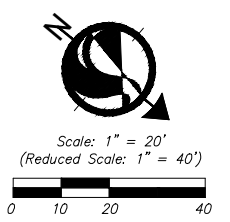
SUPERVISED BY:



**PLANTING PLAN**  
 -FRANJO ROAD - 100% CDs-

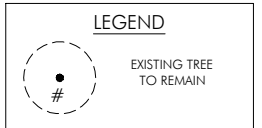
PLOTTED BY: KIEHL SEMLER DATE: 12/14/2022 1:53 PM  
 CREATED: 2022-12-14 - C:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\USA SHEETS.DWG





**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 latifolium	...Wild Tamarind	12' tall x 5' spread, 2 1/2" cal., 4' CT min
QUM	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.



**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

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

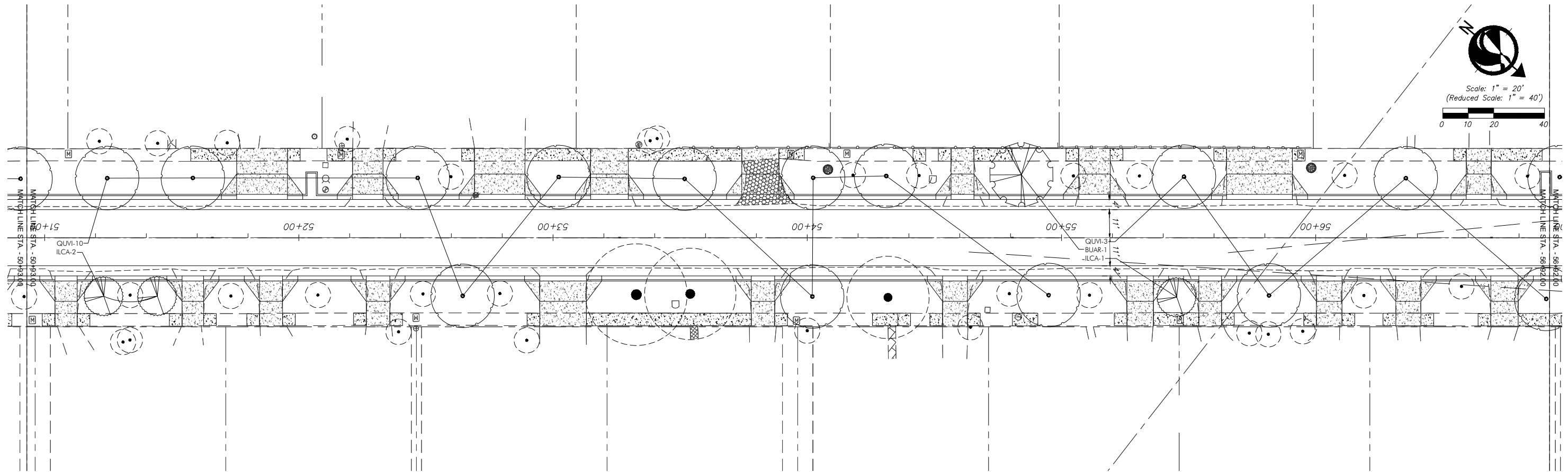
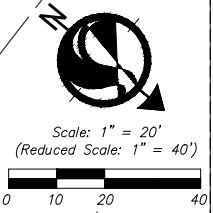
SUPERVISED BY:  



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

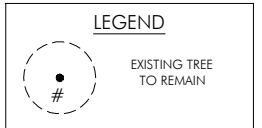
**PLANTING PLAN**  
**-FRANJO ROAD - 100% CDs-**

PLOTTED BY: KIEHL SEMLER DATE: 12/14/2022 1:53 PM  
 CREATOR: 2022-12-14 - C:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\USA SHEETS.DWG



**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 latifolium	...Wild Tamarind	12' tall x 5' spread, 2 1/2" cal., 4' CT min
QUM	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.



**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

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

SUPERVISED BY:

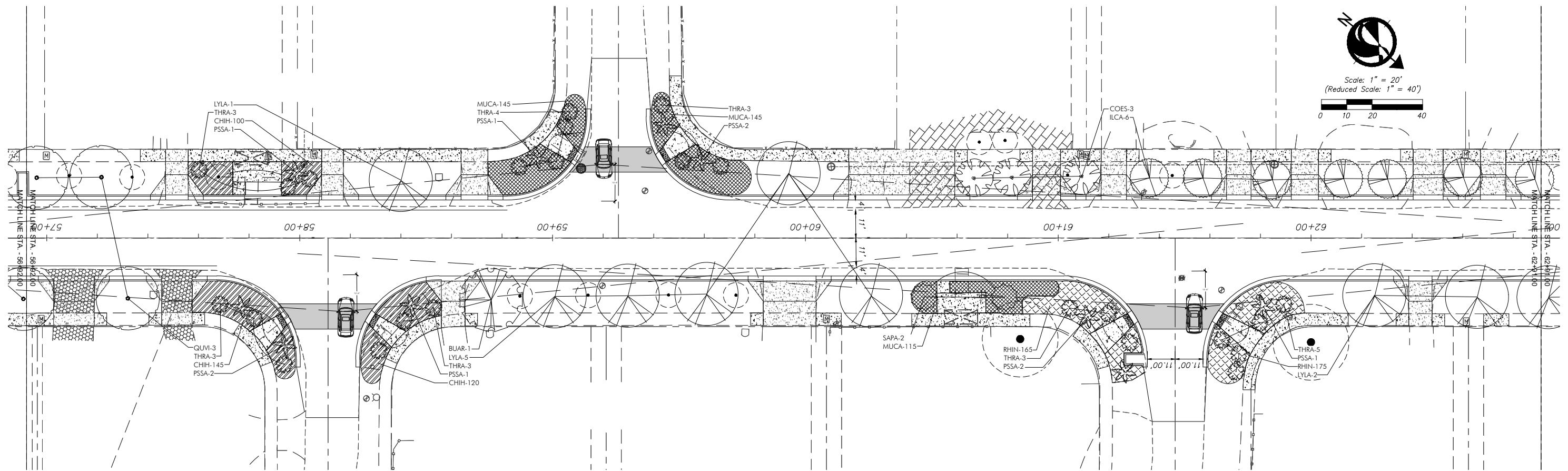
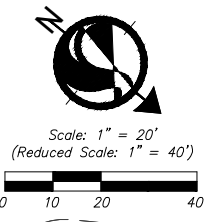


PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT  
 HIGHWAY DIVISION  
 STEPHEN P. CLARK CENTER  
 111 NW 1<sup>ST</sup> ST  
 MIAMI, FLORIDA 33128

**PLANTING PLAN**  
**-FRANJO ROAD - 100% CDs-**

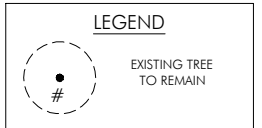
PLOTTED BY: KEHL SEMLER DATE: 12/14/2022 1:53 PM  
 CREATED: 2022-12-14 - C:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\SSA SHEETS.DWG





**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 latifolium	...Wild Tamarind	12' tall x 5' spread, 2 1/2" cal., 4' CT min
QUM	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.



**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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

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.

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

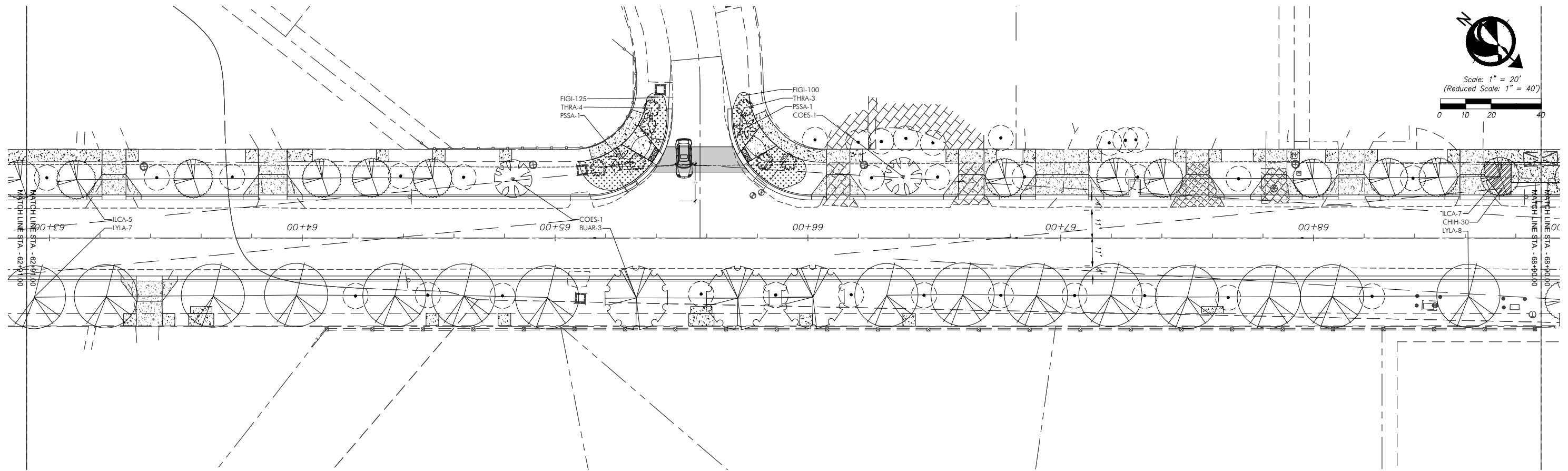
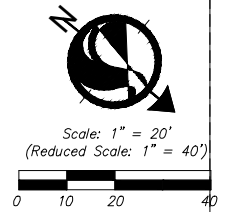
SUPERVISED BY:

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

**PLANTING PLAN**  
 -FRANJO ROAD - 100% CDs-

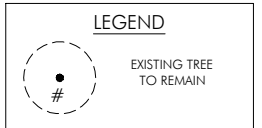
PLOTTED BY: KEHL SEMLER DATE: 12/14/2022 1:53 PM  
 CREATED: 2022-12-14 - C:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\SSA SHEETS.DWG





**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 latifolium	...Wild Tamarind	12' tall x 5' spread, 2 1/2" cal., 4' CT min
QUM	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.



**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

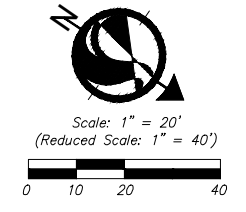
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	C.G.	2-10-2022			
CHECKED BY	K.S.	2-10-2022	CHECKED BY		

SUPERVISED BY:

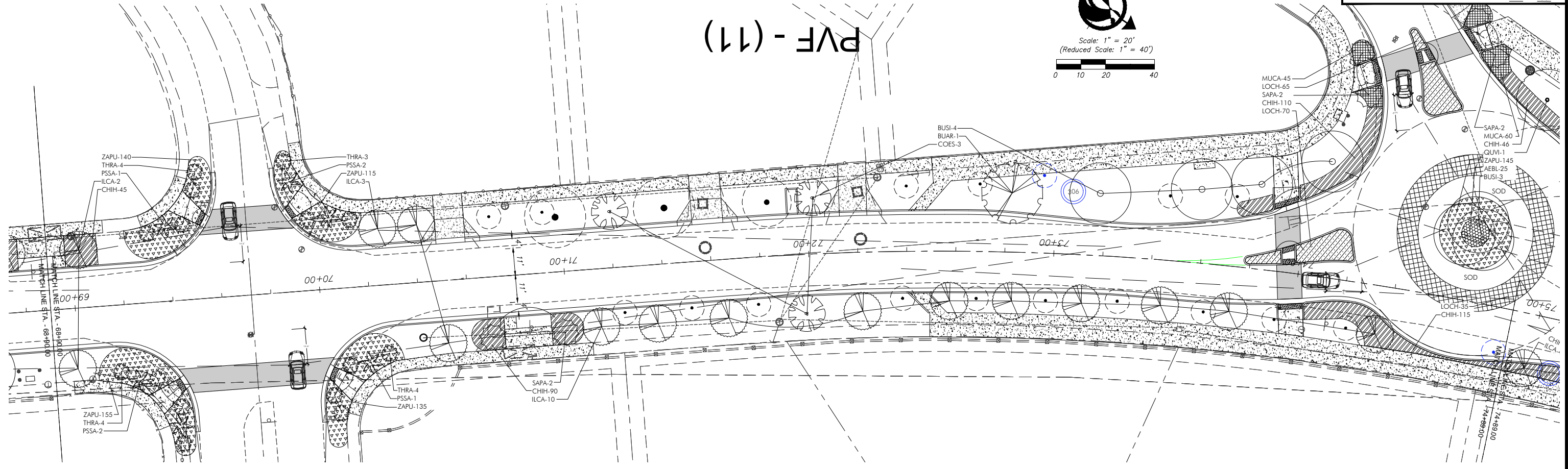


**PLANTING PLAN**  
**-FRANJO ROAD - 100% CDs-**

PLOTTED BY: KIEHL SEMLER DATE: 12/14/2022 1:53 PM  
 CREATED: 2022-12-14 - C:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\USA SHEETS.DWG

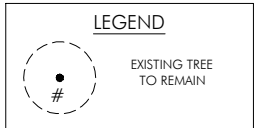


PVF - (11)



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
IAIN	Lagerstroemia indica "Muscogee"	...Crepe Myrtle	12' tall x 5' spread, 2 1/2" cal., 4' CT min, Purple Flowers
LYLA	Lysiloma latifolium	...Wild Tamarind	12' tall x 5' spread, 2 1/2" cal., 4' CT min
QUM	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 coppilaris	...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.



REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

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

SUPERVISED BY:

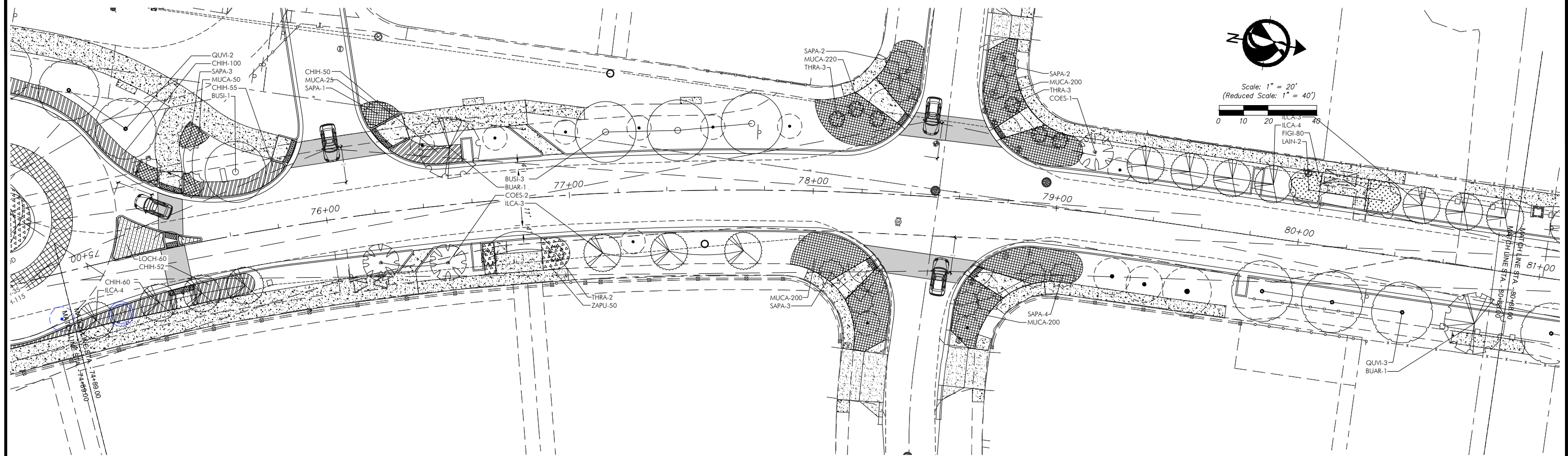


PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT  
HIGHWAY DIVISION  
STEPHEN P. CLARK CENTER  
111 NW 1<sup>ST</sup> ST  
MIAMI, FLORIDA 33128

PLANTING PLAN  
-FRANJO ROAD - 100% CDs-

PLOTTED BY: KIEHL SEMLER DATE: 12/14/2022 1:53 PM  
CREATED: 2022-12-14 - C:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\USA SHEETS.DWG





**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 latifolium	...Wild Tamarind	12' tall x 5' spread, 2 1/2" cal., 4' CT min
QUM	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

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

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

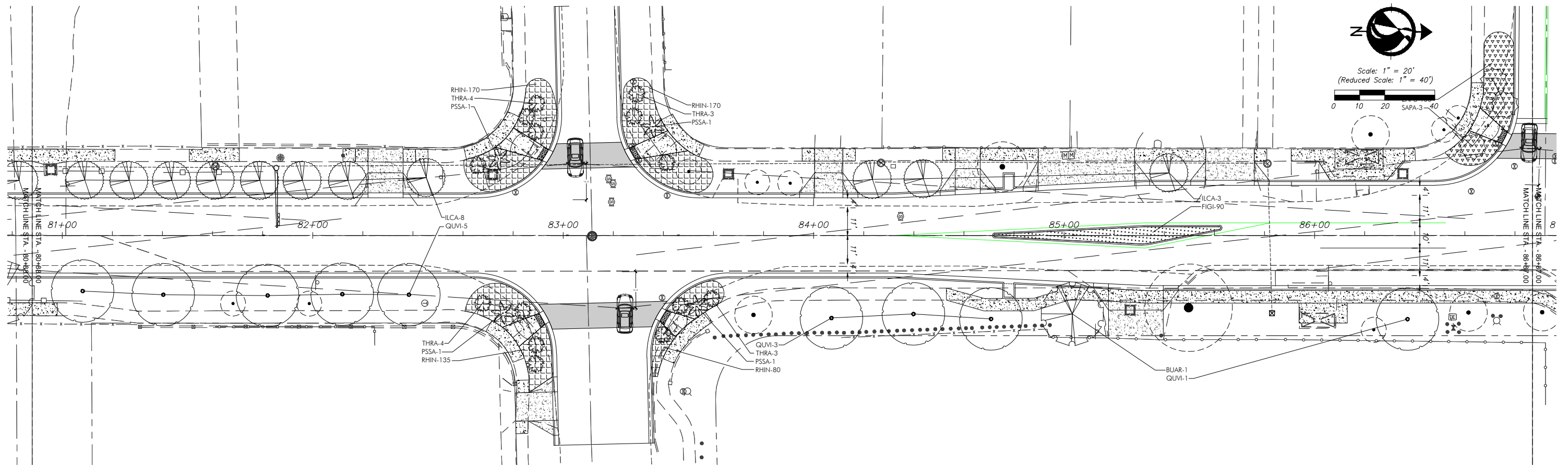
SUPERVISED BY:

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

**PLANTING PLAN**  
**-FRANJO ROAD - 100% CDs-**

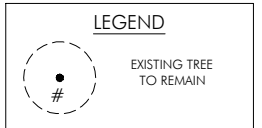
PLOTTED BY: KIEHL SEMLER DATE: 12/14/2022 1:53 PM  
 CREATOR: 2022-12-14 - C:\FRANJO ROAD SOUTH (STANTEC)\2022-12-9\USA SHEETS.DWG





**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
IAIN	Lagerstroemia indica "Muscogee"	...Crepe Myrtle	12' tall x 5' spread, 2 1/2" cal., 4' CT min, Purple Flowers
LYLA	Lysiloma latifolium	...Wild Tamarind	12' tall x 5' spread, 2 1/2" cal., 4' CT min
QUM	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.

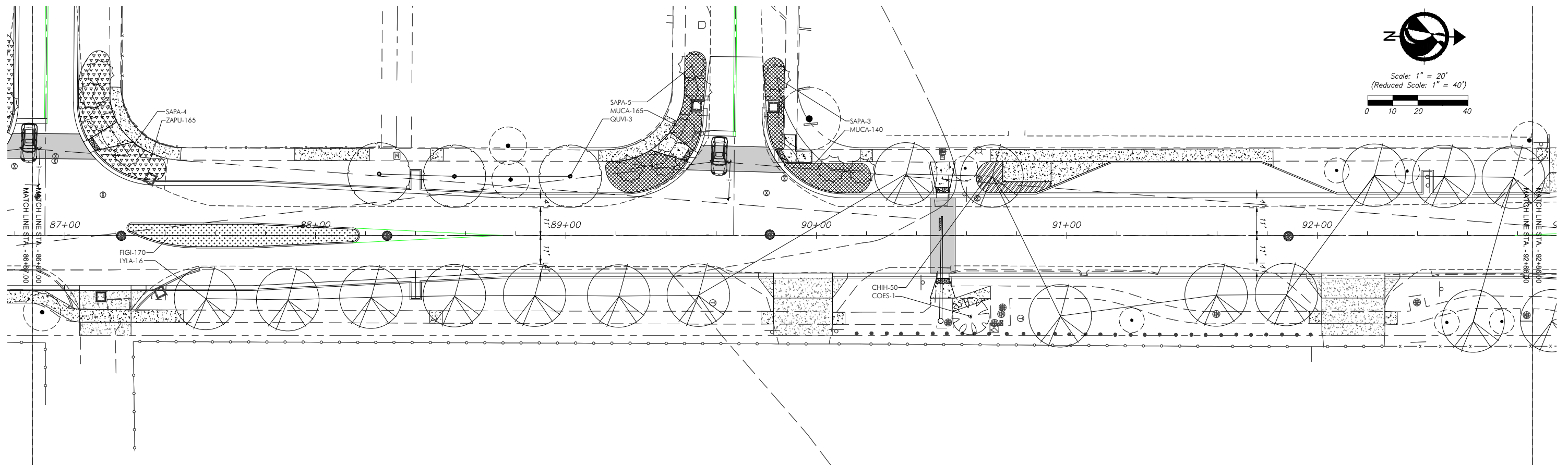
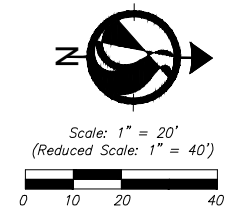


REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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

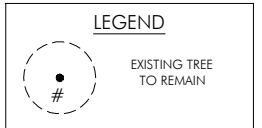
**PLANTING PLAN**  
 -FRANJO ROAD - 100% CDs-

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



**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 latifolium	...Wild Tamarind	12' tall x 5' spread, 2 1/2" cal., 4' CT min
QUM	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.



**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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.

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

SUPERVISED BY:



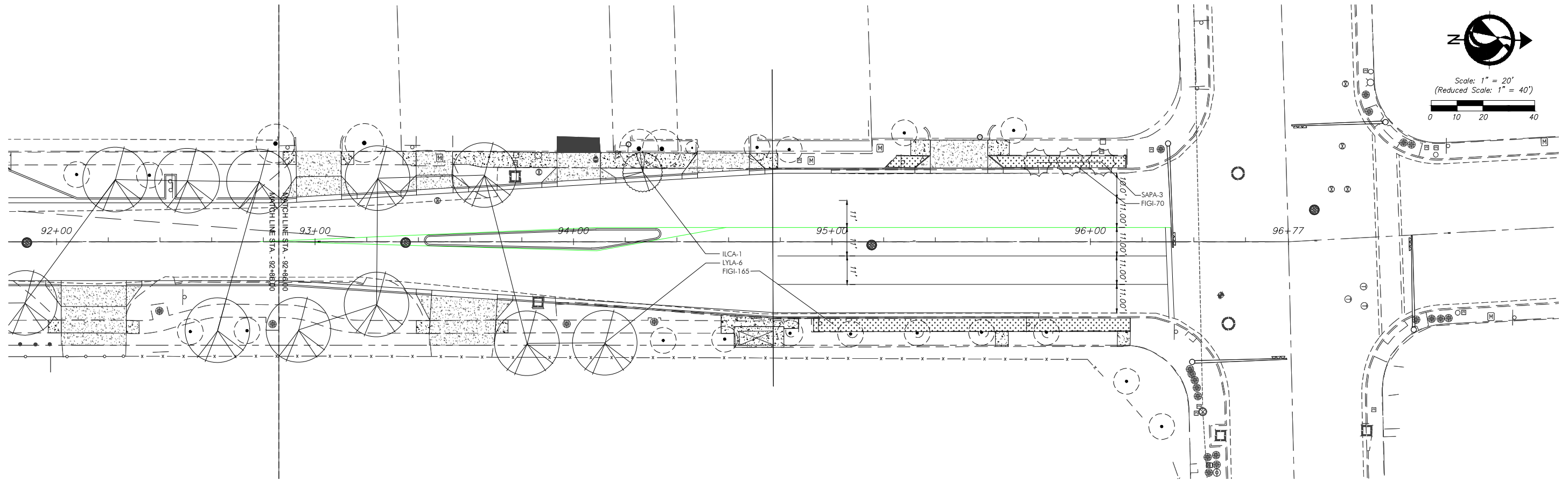
**PLANTING PLAN**  
 -FRANJO ROAD - 100% CDs-

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





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



**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
IAIN	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
QUM	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 coppilaris	...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



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.

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



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

**PLANTING PLAN  
 -FRANJO ROAD - 100% CDs-**



**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.  
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.
- 1.10 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 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 source, 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 Soddied 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 polypropylene 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

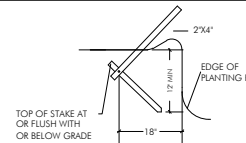
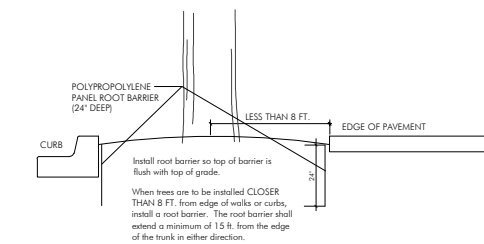
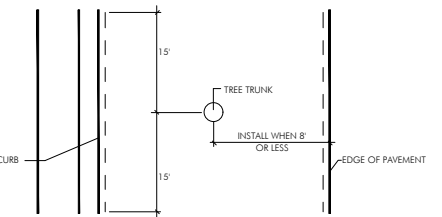
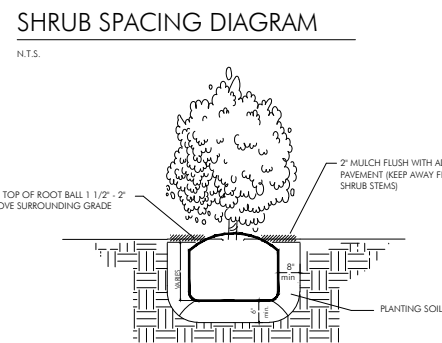
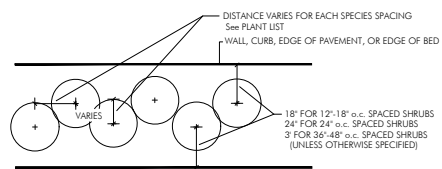
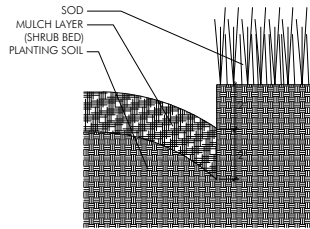
- B. Water in plants by thoroughly soaking of the entire root ball immediately after planting. For large trees and shrubs, add water while backfilling hole to eliminate any air pockets in the soil around the root ball.  
C. Water shrubs, sod and groundcover a minimum of once daily for a week or until 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 setting, 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 curb or 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.

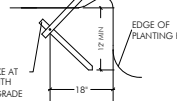
- For all sod areas, spread a 2" deep layer of lawn sand prior to sodding. Remove all debris and rocks and pebbles larger than 2 inches in size and level the grade before sodding. Remove, if required, existing soil so that top of sod is flush with and adjacent top of curb or pavement.  
For Trees and shrubs larger than 7 gallon, Add Diehard<sup>®</sup> transplant inoculant 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 inch 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.



**DETAIL A**

N.T.S.  
NOTE: USE 4" X 4" STAKES  
TREES & PALMS OVER 12" CALIPER

- PROVIDE THREE 2X4 PINE STAKES 12" APART ATTACH W/NAELS TO BATTENS NO HOLS IN TREE  
SET ROOTBALL SO TRUNK FLARE OR TOP ROOT IS 2" ABOVE SURROUNDING GRADE  
INSTALL 2" OF MULCH OVER 3" DIAMETER CIRCLE AROUND THE TRUNK. DO NOT PLACE MULCH WITHIN 2" OF THE TRUNK  
REMOVE ANY PORTION OF WIRE BASKETS OR BURLAP ABOVE THE TOP HALF OF THE ROOTBALL. COMPLETELY REMOVE BURLAP COVERINGS BELOW THE TOP HALF OF THE ROOTBALL. COMPLETELY REMOVE ALL SYNTHETIC ROOTBALL COVERING MATERIALS.  
DETAIL A  
WOOD STAKES TOP OF STAKES BELOW OR FLUSH WITH GRADE

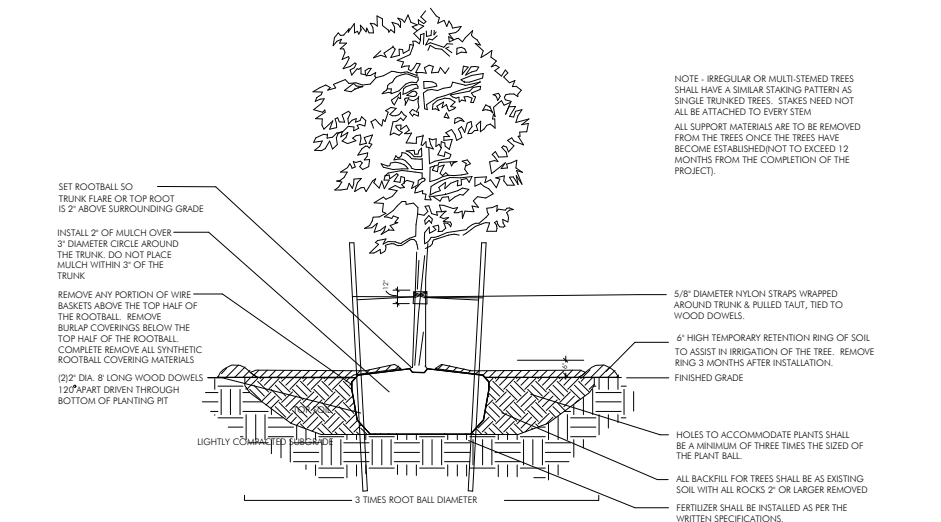


**BATTEN DETAIL B**

- 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).  
6" HIGH TEMPORARY RETENTION RING OF SOIL TO ASSIST IN IRRIGATION OF THE TREE. REMOVE RING 3 MONTHS AFTER INSTALLATION.  
HOLES TO ACCOMMODATE PLANTS SHALL BE A MINIMUM OF THREE TIMES THE SIZE OF THE PLANT ROOTBALL.  
ALL BACKFILL FOR TREES SHALL BE EXISTING SOIL WITH ALL ROCKS 2" OR LARGER REMOVED.  
FERTILIZER SHALL BE INSTALLED AS PER THE WRITTEN SPECIFICATIONS.

**PLANTING & BRACING DETAIL OVER 3 1/2" CALIPER**

N.T.S.



**PLANTING & BRACING DETAIL UNDER 3 1/2" CALIPER**

N.T.S.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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

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.

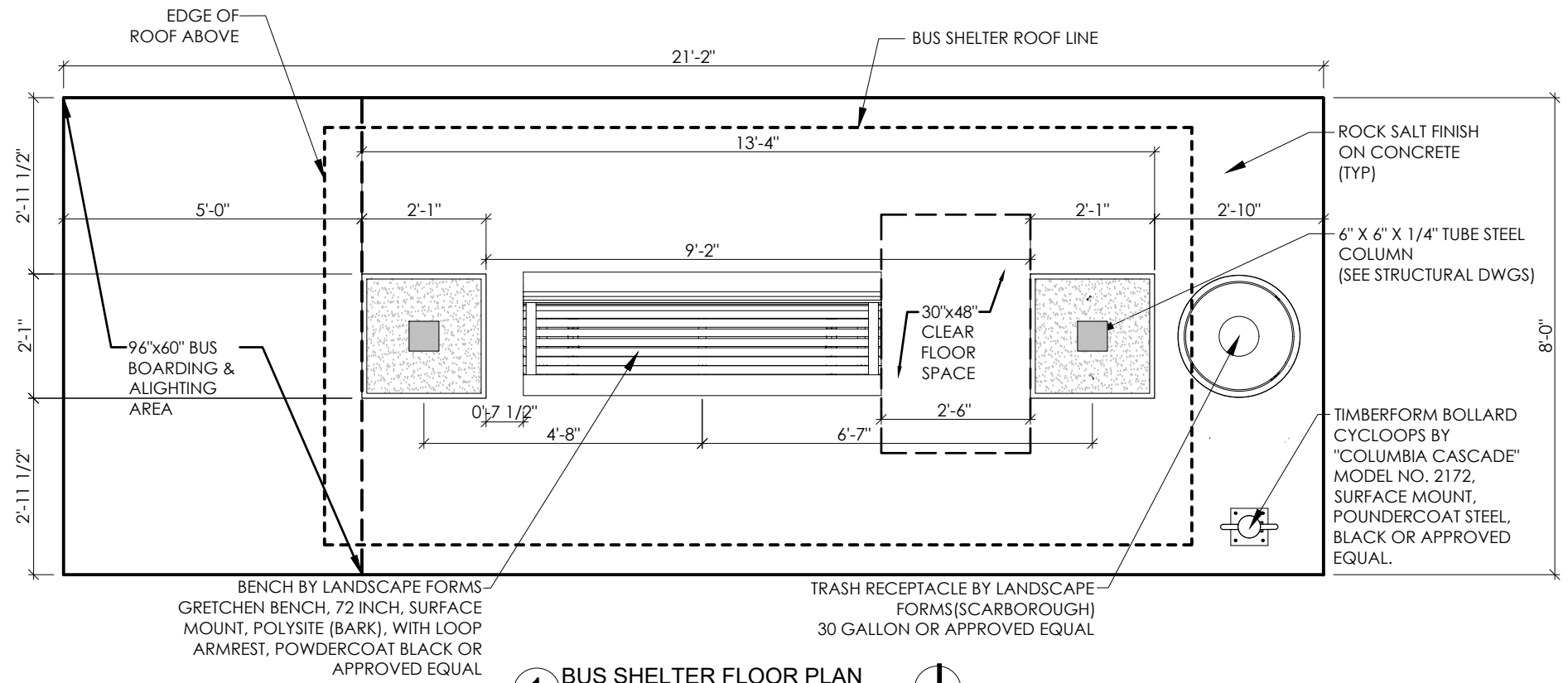
NAME	DATE	NAME	DATE
DESIGNED BY C.G.	2-10-2022	DRAWN BY K.S.	2-10-2022
CHECKED BY		CHECKED BY	
SUPERVISED BY			

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

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

PLOTED BY: KEHL SEMLER DATE: 12/14/2022 1:54 PM  
CREATOR: 2022-12-14 - C:\FRANJO ROAD SOUTH (STANTEC)\2022-12-13 (USA) SHEETS.DWG

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



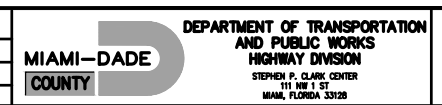
**1 BUS SHELTER FLOOR PLAN**  
3/4" = 1'-0"

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

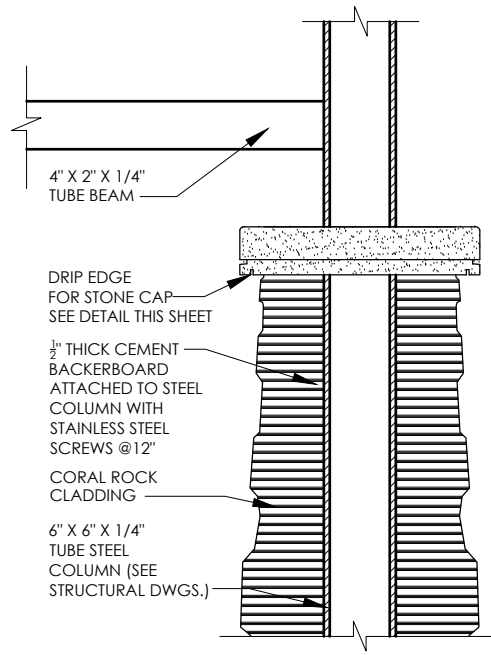


The Contractor shall verify and be responsible for all dimensions. DO NOT scale this drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

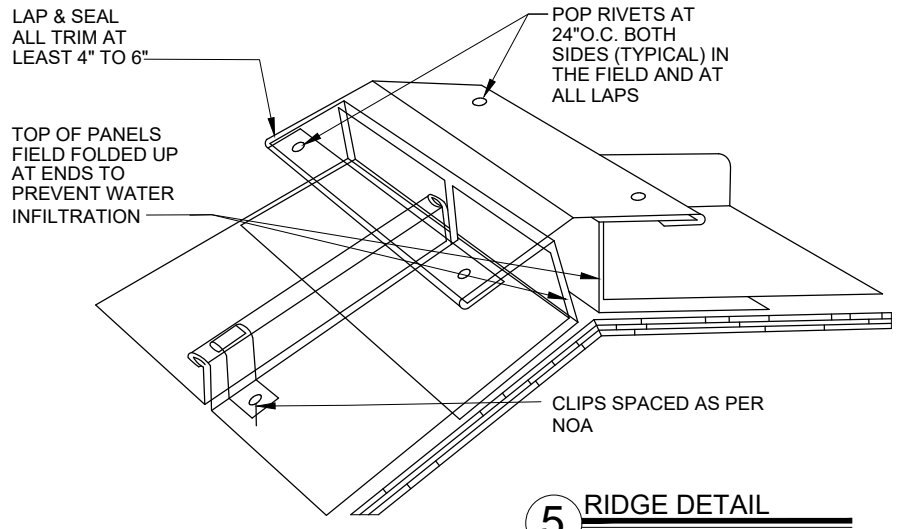
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHECKED BY			CHECKED BY		
SUPERVISED BY:					



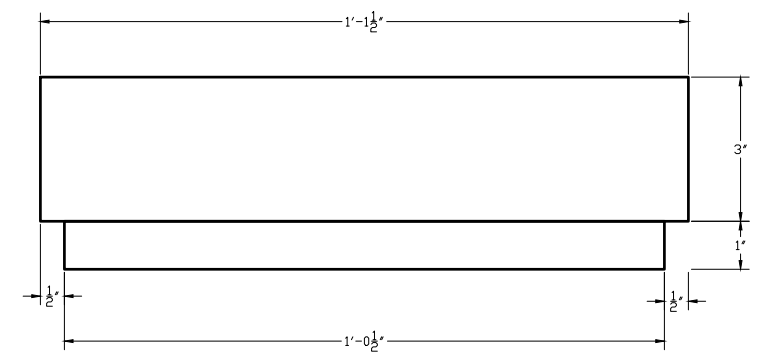
ARCHITECTURAL DETAILS



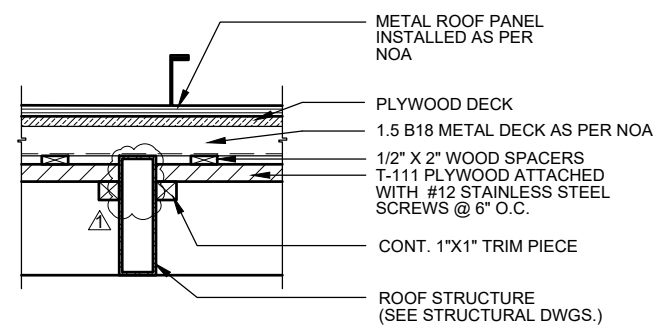
**1 COLUMN DETAIL**  
1 1/2" = 1'-0"



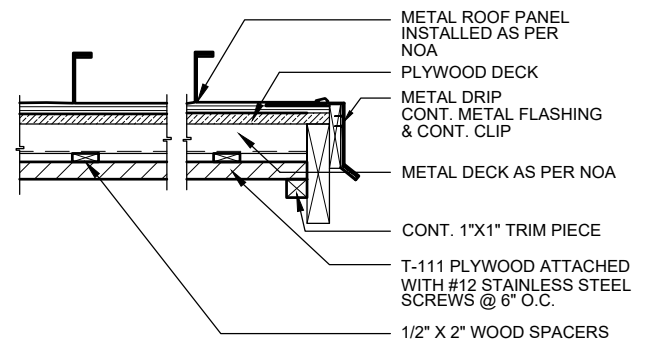
**5 RIDGE DETAIL**  
NTS



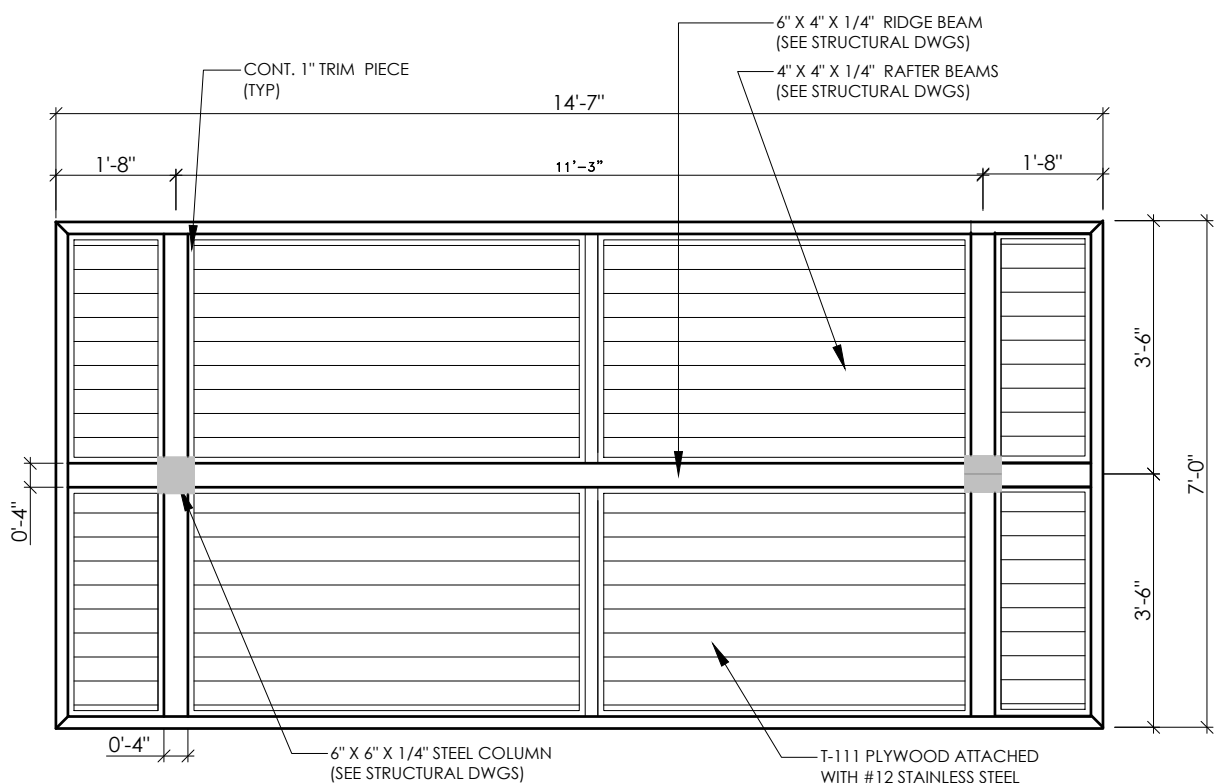
**6 STONE CAP DETAIL**  
NTS



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



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



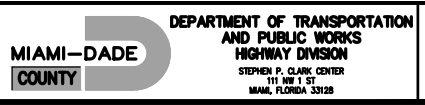
**3 FRAMING PLAN**  
3/4" = 1'-0"

DATE		BY	COMMENTS	DATE		BY	DESCRIPTION



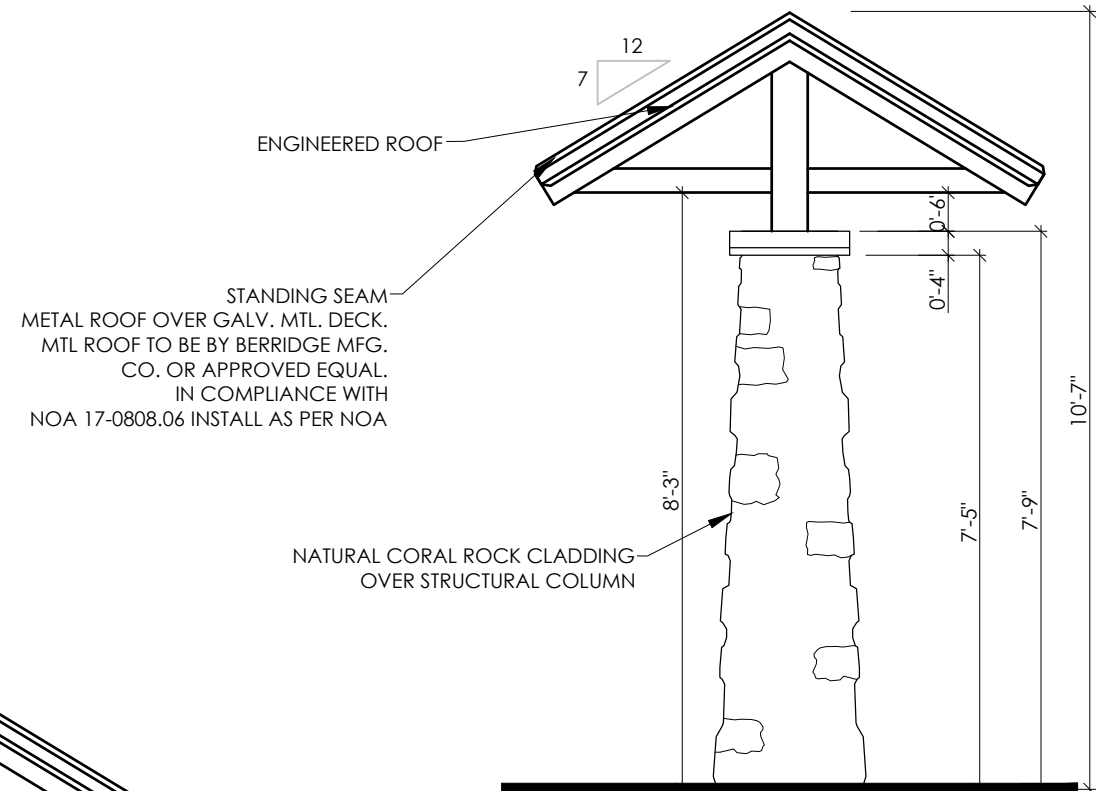
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

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

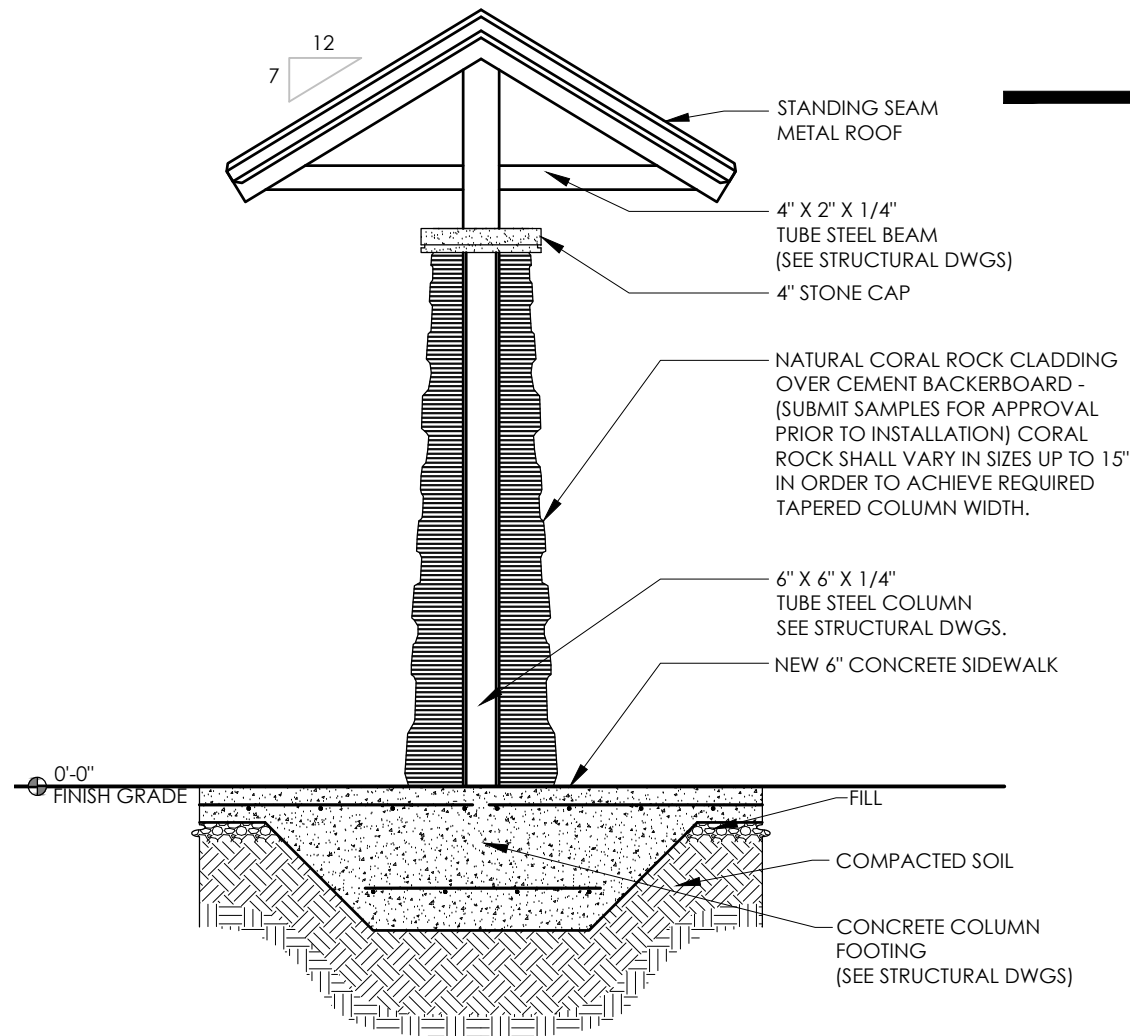


ARCHITECTURAL DETAILS

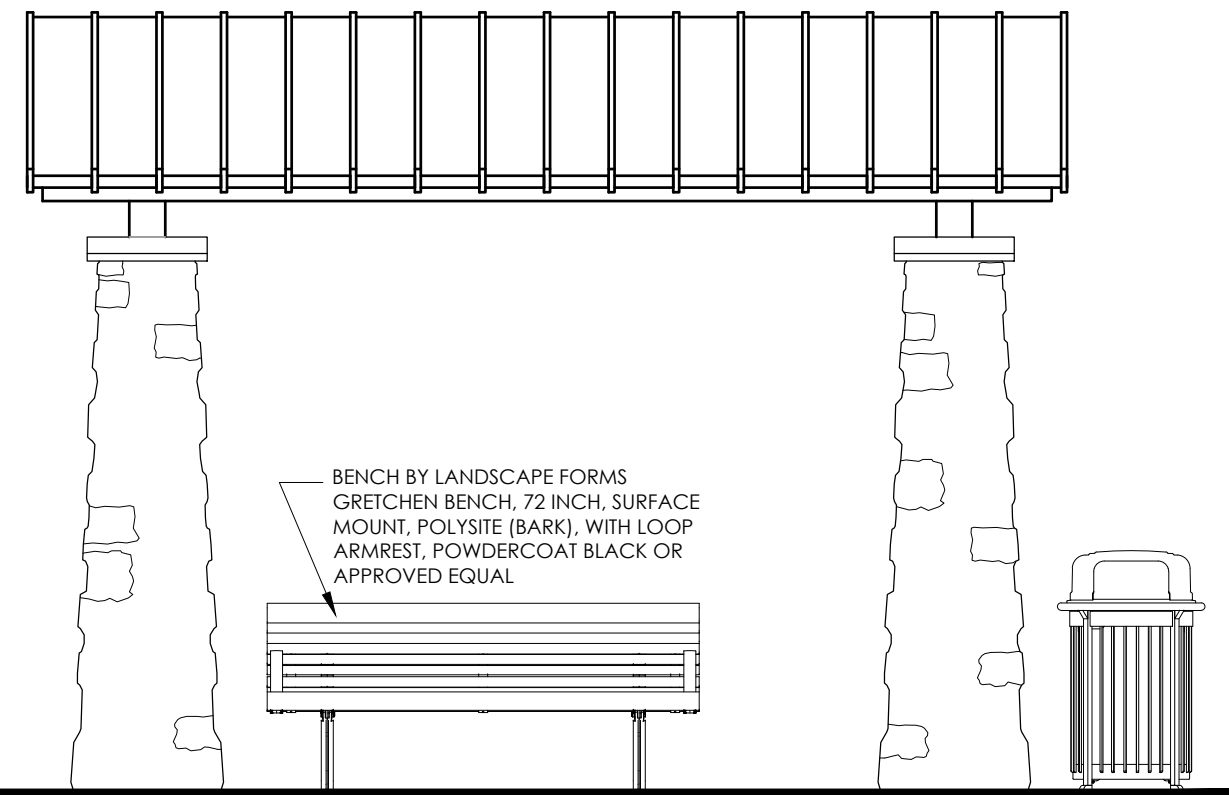




**4 BUS SHELTER SIDE ELEVATION**  
 3/4" = 1'-0"



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



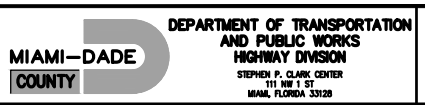
**5 BUS SHELTER FRONT ELEVATION**  
 3/4" = 1'-0"

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY



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.

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



ARCHITECTURAL DETAILS

**GENERAL NOTES**

- 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.
- TO THE BEST OF OUR KNOWLEDGE, THE STRUCTURAL DRAWINGS COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE GOVERNING BUILDING CODE.
- 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.
- THE STRUCTURAL DOCUMENTS ARE TO BE USED IN CONJUNCTION WITH THE CIVIL DOCUMENTS. IF A CONFLICT EXISTS, THE MORE STRINGENT GOVERNS.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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	GCFI = 0

**SHOP DRAWINGS**

- 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.
- SUBMIT SPECIFIC COMPONENTS, SUCH AS COLUMNS, FOOTINGS, ETC., IN A SINGLE PACKAGE. SUBMIT SIMILAR FLOORS TOGETHER.
- 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.
- 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.
- 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.
- 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.
  - 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.
- THE FOLLOWING ITEMS ARE SHOP DRAWINGS THAT SHALL BE SUBMITTED FOR REVIEW:
  - REINFORCING STEEL
  - CONCRETE/GROUT MIXES
  - COMPACTION REPORTS
  - PRODUCT DATA/ACCESSORIES
  - EMBEDDED ITEMS
  - UTILITY PENETRATIONS THROUGH STRUCTURAL MEMBERS
  - EMBEDDED UTILITIES IN STRUCTURAL MEMBERS

**SHALLOW FOUNDATIONS**

- 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.
- SUBGRADE PREPARATION SHALL BE FIELD CONTROLLED AND TESTED. PROVIDE COMPACTION REPORTS TO THE ENGINEER FOR RECORD.
- CENTER ALL FOOTINGS UNDER THEIR RESPECTIVE COLUMNS OR WALLS, UNO.

**EXCAVATION, BACKFILL AND DEWATERING**

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

**REINFORCED CONCRETE**

- COMPLY WITH ACI 301 AND 318.
- PROVIDE STRUCTURAL CONCRETE WITH A MINIMUM ULTIMATE COMPRESSIVE DESIGN STRENGTH OF 4000 PSI IN 28 DAYS.
- USE NORMAL WEIGHT CONCRETE FOR ALL STRUCTURAL MEMBERS UNO.
- THE USE OF CALCIUM CHLORIDE AND/OR OTHER CHLORIDE CONTAINING AGENTS IN CONCRETE IS PROHIBITED.
- CONCRETE MIXES SHALL USE LARGEST COARSE AGGREGATE PRACTICAL FOR MEMBERS BEING CAST.
- 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 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 1/8" 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:

- OBTAIN AT LEAST ONE COMPOSITE SAMPLE FOR EACH 100 CU. YD. OR FRACTION THEREOF OF EACH CONCRETE MIXTURE PLACED EACH DAY.
- 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.
- CAST AND LABORATORY CURE TWO SETS OF TWO STANDARD SPECIMENS FOR EACH COMPOSITE SAMPLE.
- CAST AND FIELD CURE TWO SETS OF TWO STANDARD CYLINDER SPECIMENS FOR EACH COMPOSITE SAMPLE.
- 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.
- 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.
- 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

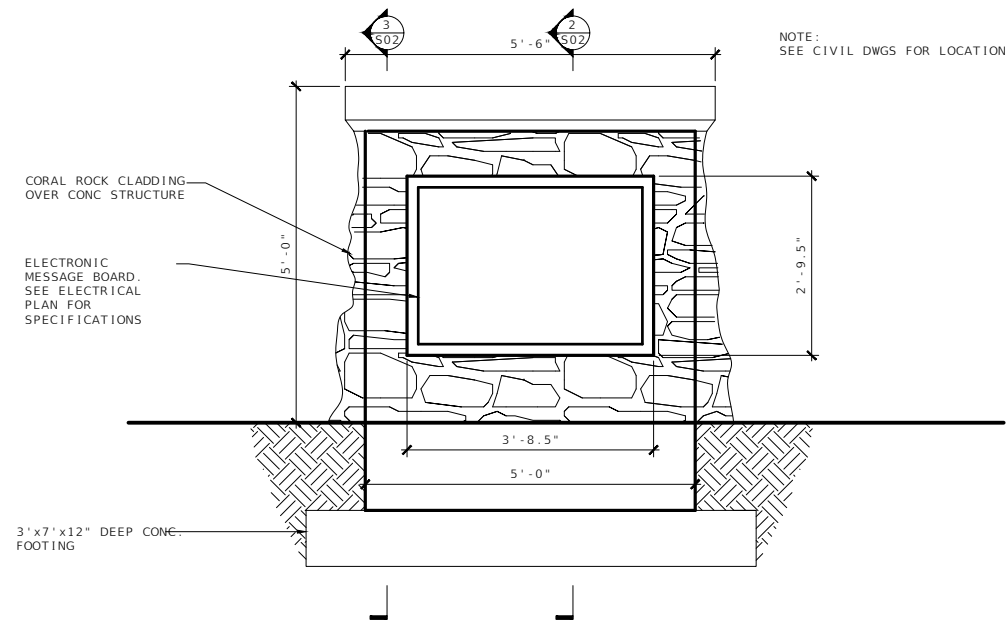


The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
PG	PG	09/27/21	SB	PG	09/27/21
CHECKED BY	PG	09/27/21	CHECKED BY	PG	09/27/21
SUPERVISED BY: PG					

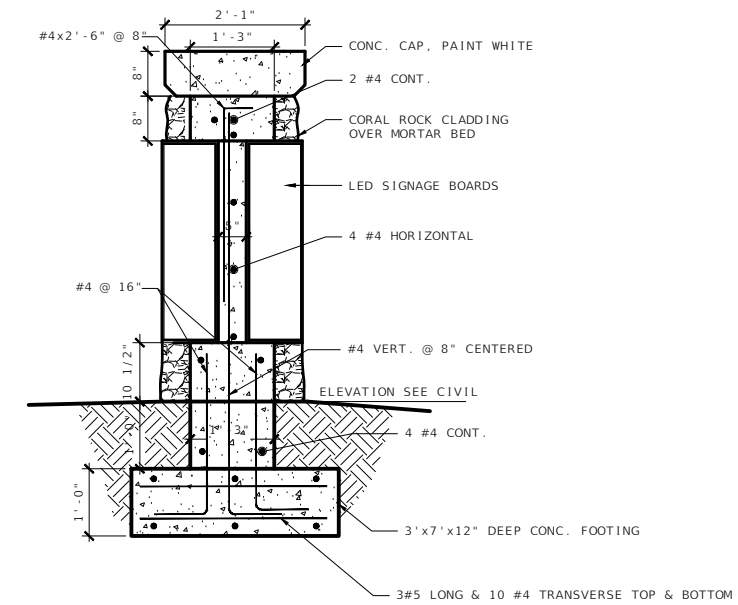


**STRUCTURAL DETAILS**

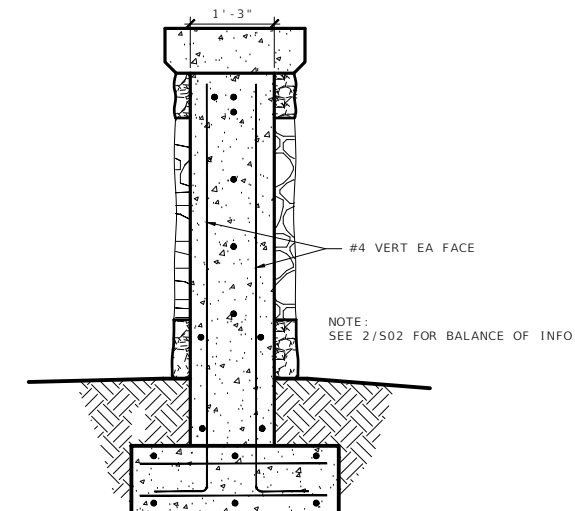


1 MESSAGE BOARD ELEVATIONS  
SCALE: 3/4" = 1'-0"

- 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

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

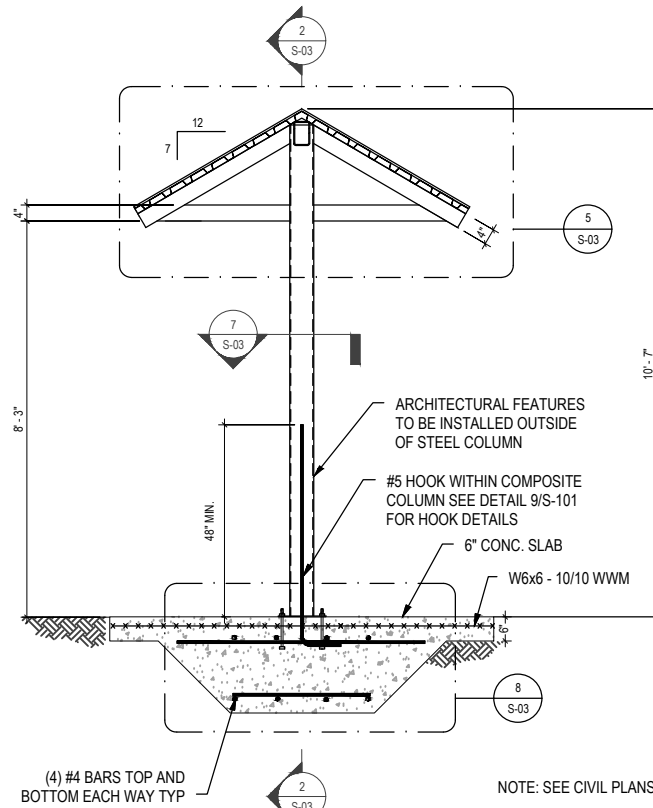


The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
PG	PG	09/27/21	SB	SB	09/27/21
CHECKED BY	NAME	DATE	CHECKED BY	NAME	DATE
PG	PG	09/27/21	PG	PG	09/27/21
SUPERVISED BY:	PG				

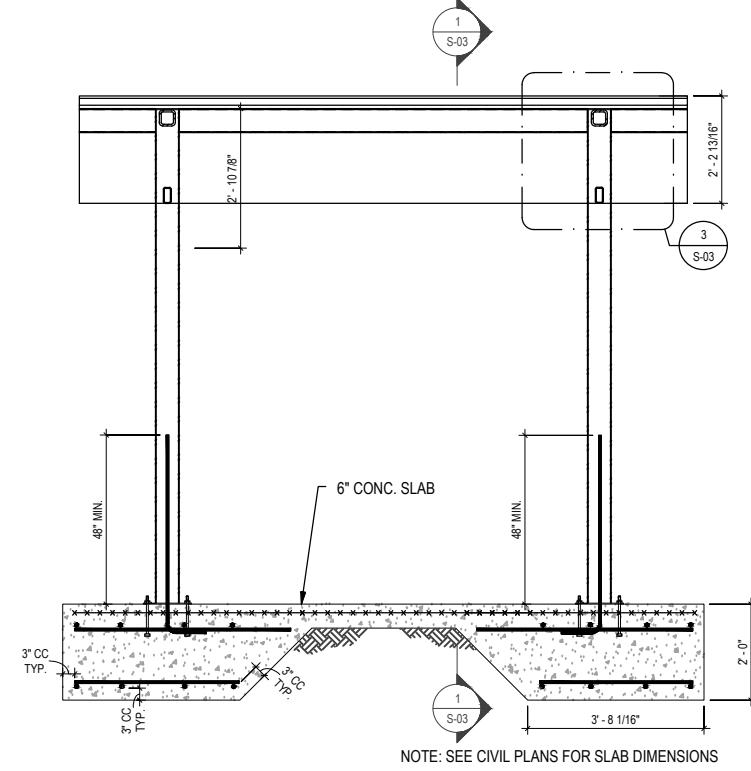




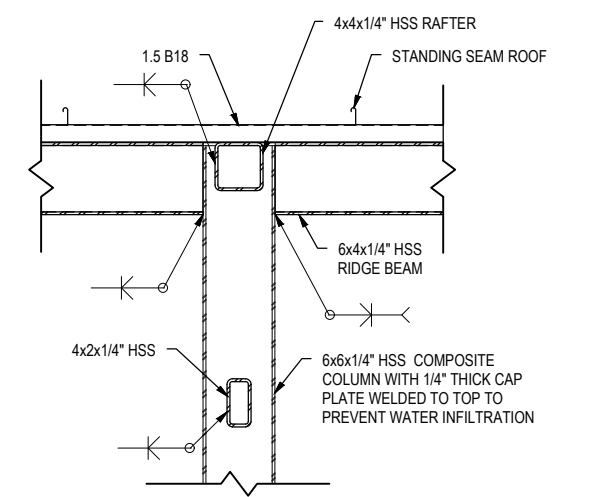


**1 SIDE - SECTION CUT**  
S-03 1/2" = 1'-0"

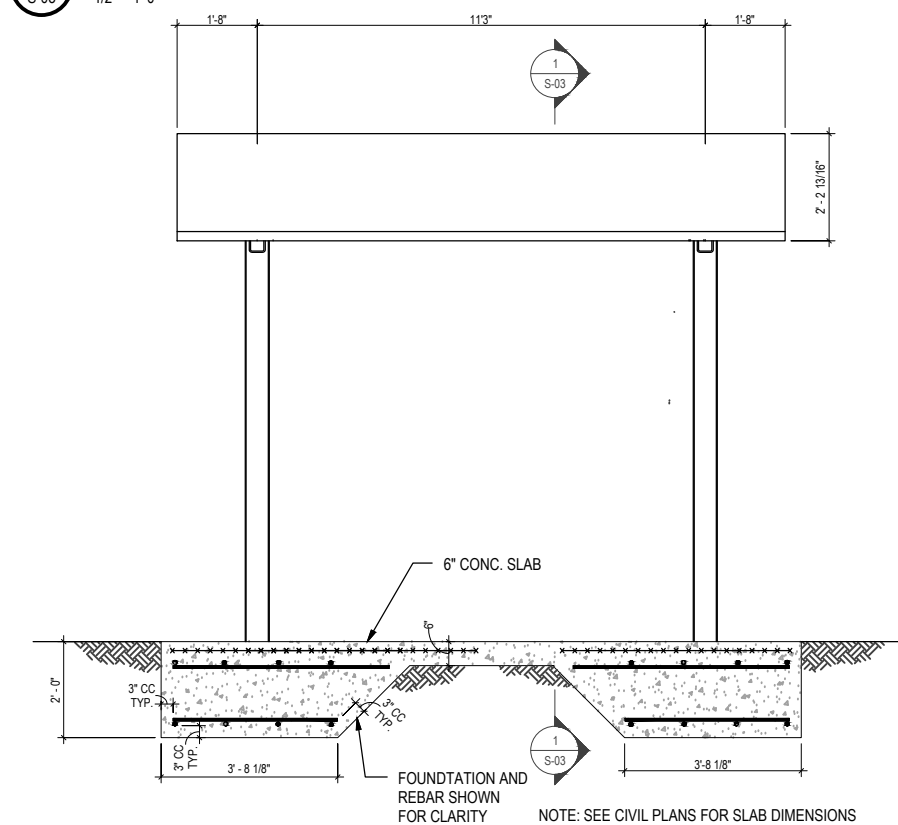
NOTE: CONCRETE SLAB / SIDEWALK AND FOOTING SHALL BE POURED MONOLITHICALLY



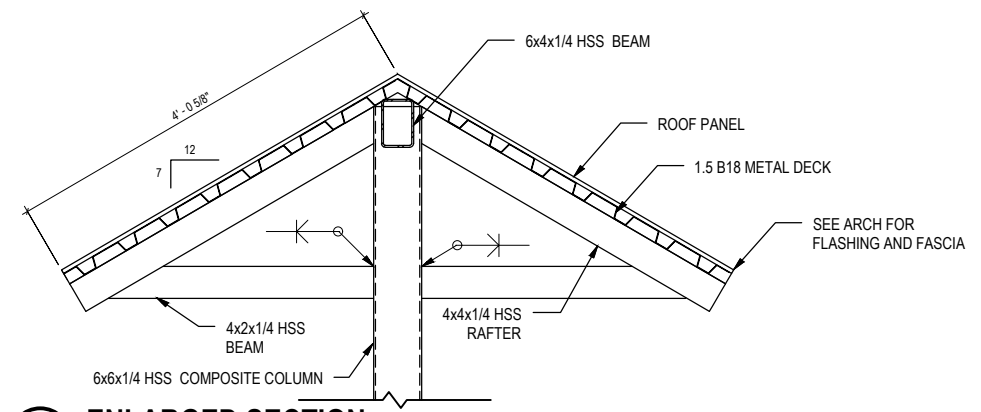
**2 SOUTH SECTION CUT**  
S-03 1/2" = 1'-0"



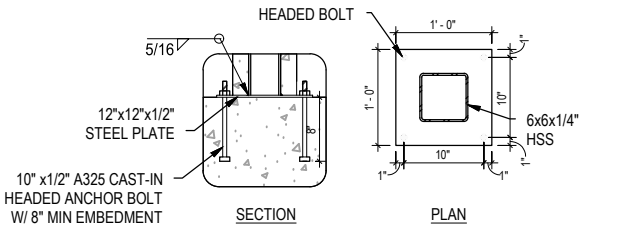
**3 ENLARGED SECTION CUT**  
S-03 1 1/2" = 1'-0"



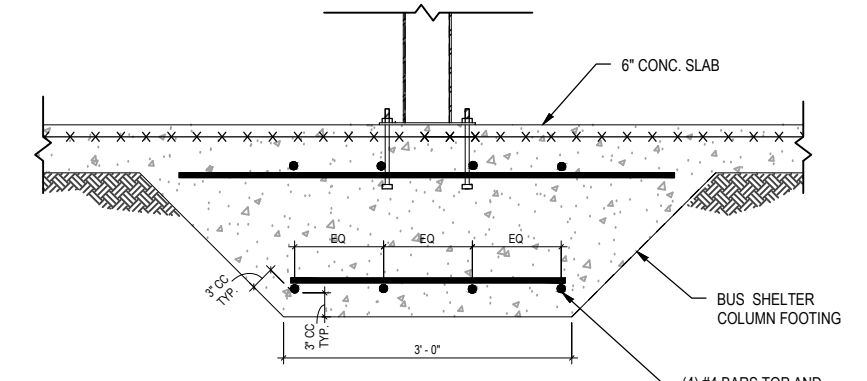
**4 SOUTH ELEVATION**  
S-03 1/2" = 1'-0"



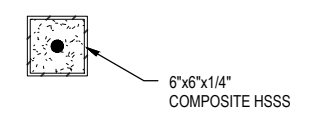
**5 ENLARGED SECTION**  
S-03 1" = 1'-0"



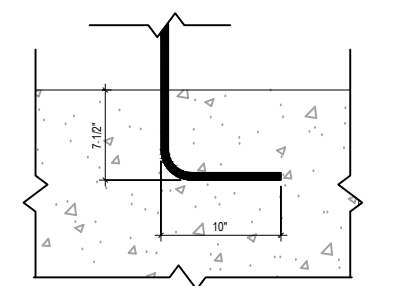
**6 ANCHOR PLATE**  
S-03 1" = 1'-0"  
NOTE: STEEL PLATES FOR LARGE BUS SHELTER SHALL BE 12" x 12" x 3/4"



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



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



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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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

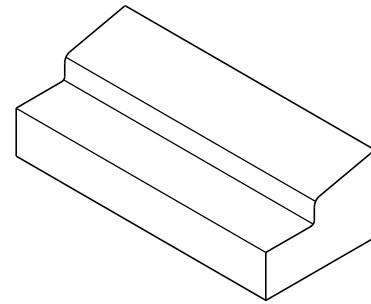


STRUCTURAL DETAILS

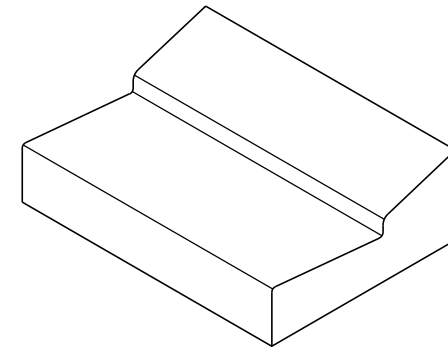
**GENERAL NOTES:**

1. For curb, gutter and curb & gutter provide  $\frac{1}{8}$ " -  $\frac{1}{4}$ " 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.

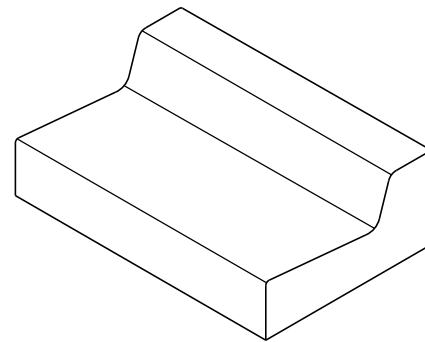
TABLE OF CONTENTS:	
Sheet	Description
1	General Notes and Contents
2	Concrete Curb and Gutter
3	Curb and Gutter Joints and Endings, Concrete Bumper Guard, and Asphaltic Concrete Curb



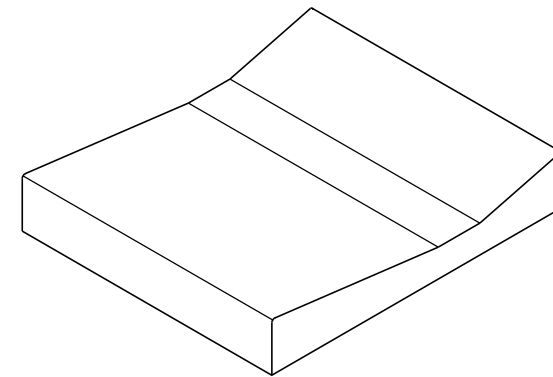
TYPE A



TYPE E

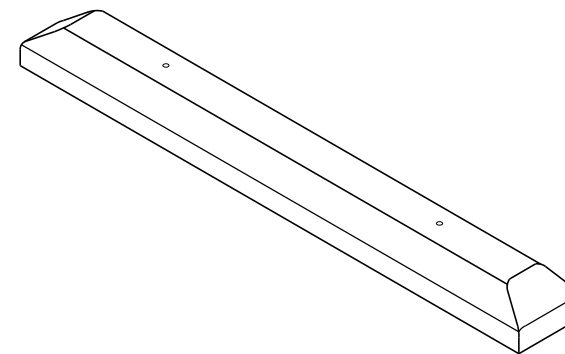


TYPE F



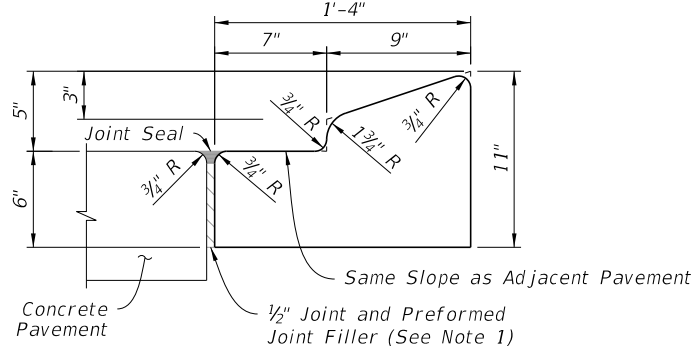
SHOULDER GUTTER

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



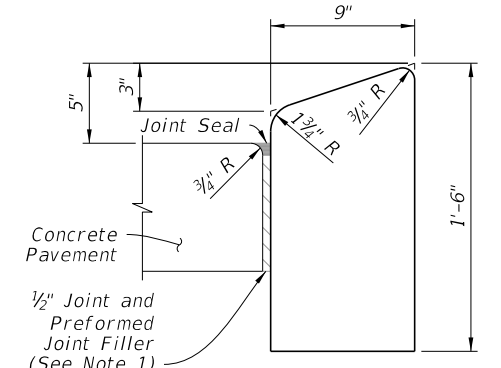
===== CONCRETE BUMPER GUARD =====

9/21/2021 2:33:06 PM



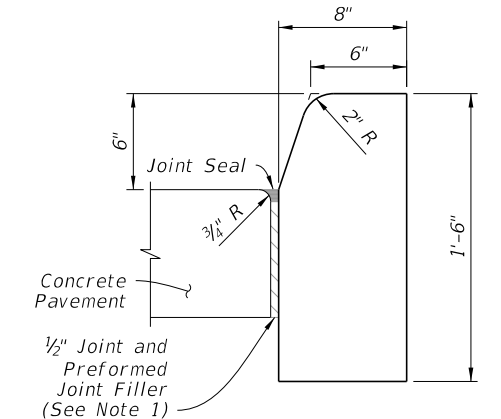
NOTE: For use adjacent to concrete or flexible pavement, concrete shown (See Note 4).

TYPE A



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

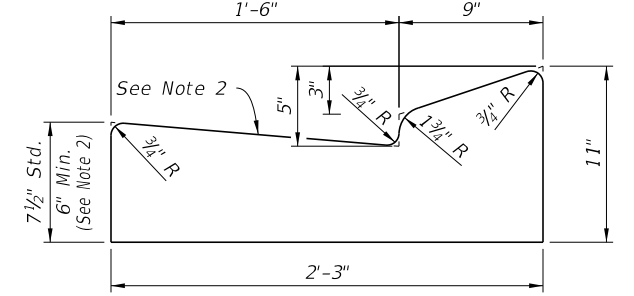
TYPE B



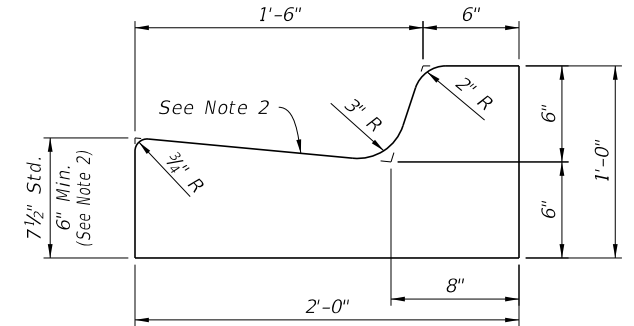
NOTE: For use adjacent to concrete or flexible pavement, concrete shown.

TYPE D

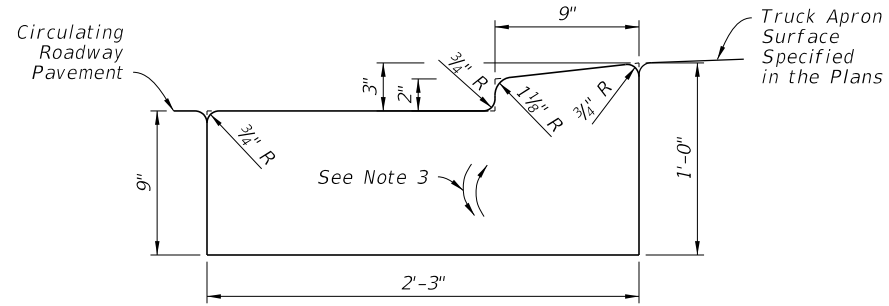
- NOTES:**
- For Type A, Type B, and Type D Curb: Expansion joint, preformed joint filler and joint seal are required between curbs and concrete pavement only, see Sheet 3.
  - For Type E, Type F, Drop Curb, and Valley Gutter: When used on high side of roadways, match the cross slope of the gutter to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



TYPE E

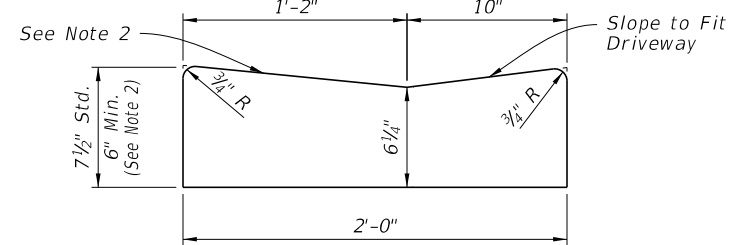


TYPE F

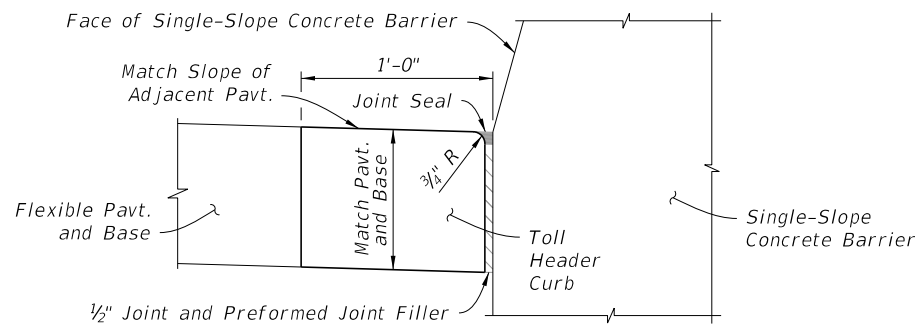


NOTE: Traffic Bearing Sections for use in Roundabout Central Island Construction.

TYPE RA

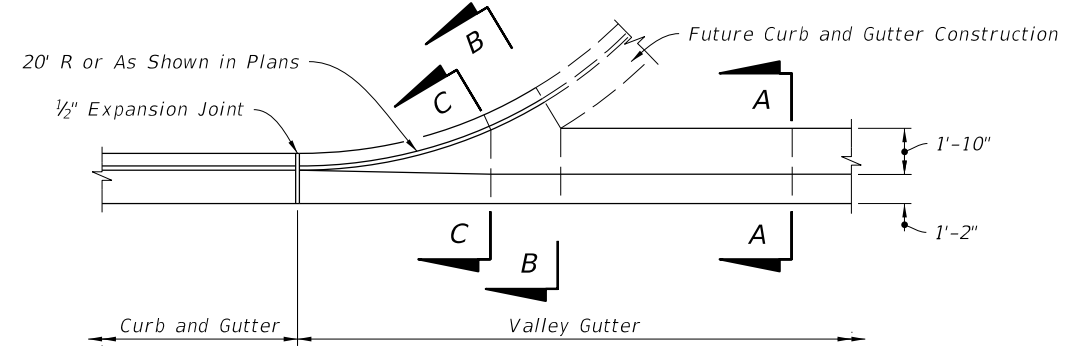


DROP CURB

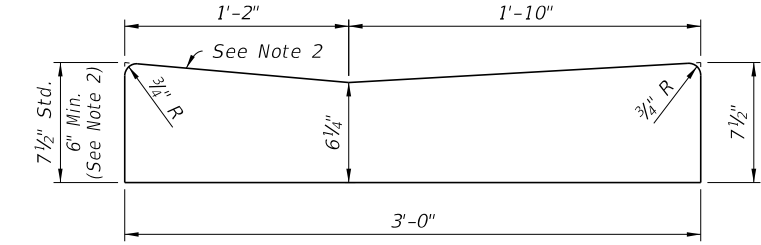


NOTE: See the toll site details for conduit requirements.

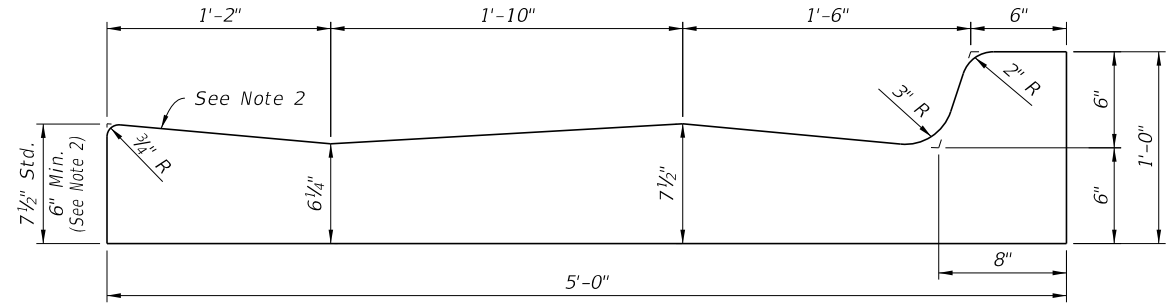
TOLL HEADER CURB



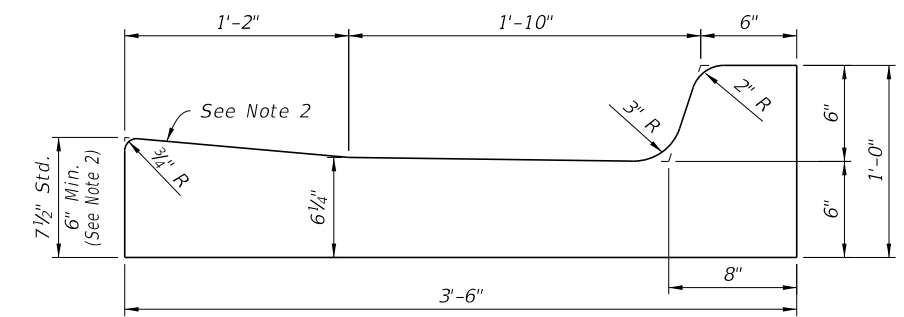
PLAN VIEW



SECTION A-A

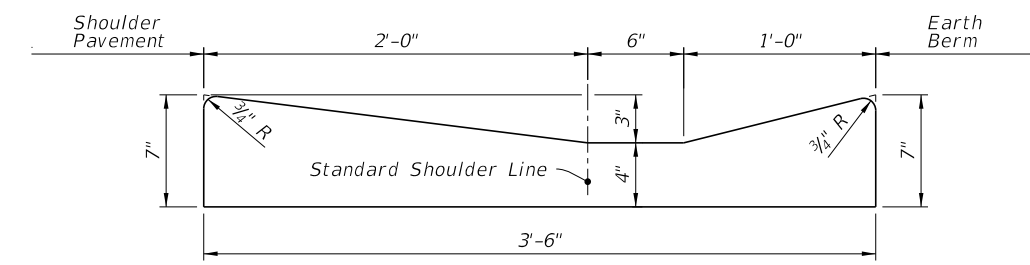


SECTION B-B



SECTION C-C

VALLEY GUTTER



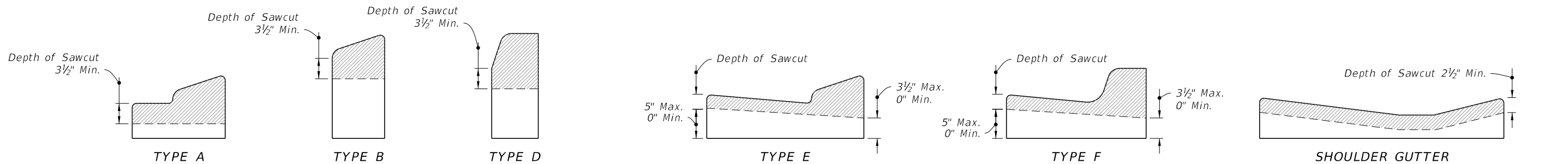
SHOULDER GUTTER

CONCRETE CURB AND GUTTER

9/21/2021 2:33:07 PM

LAST REVISION 11/01/21	REVISION	DESCRIPTION:	 FY 2022-23 STANDARD PLANS	CURB AND GUTTER	INDEX 520-001	SHEET 2 of 3
---------------------------	----------	--------------	--	-----------------	------------------	-----------------

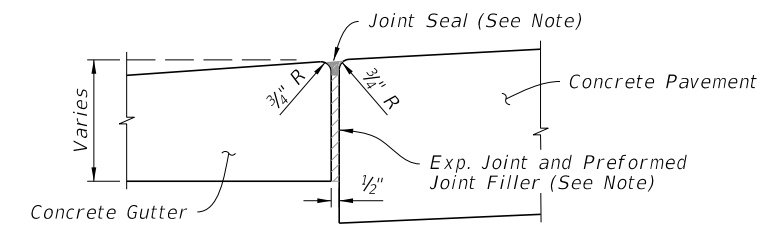
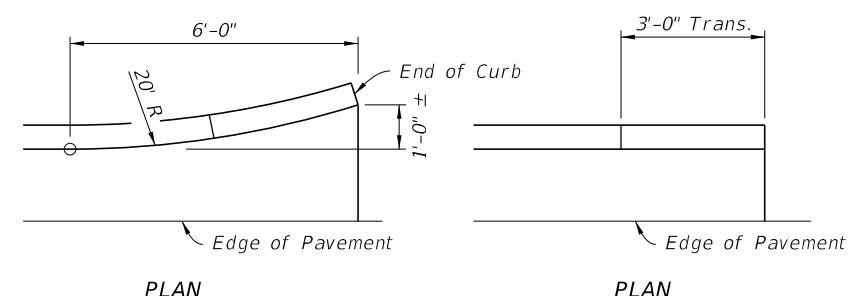
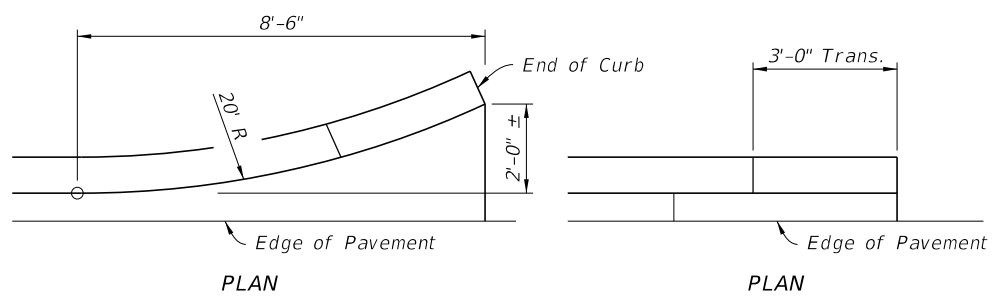




NOTE: Sawcuts should be avoided within valley gutter and within curb and gutter endings.

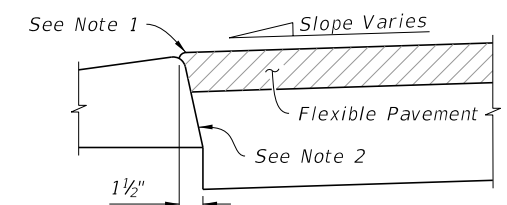
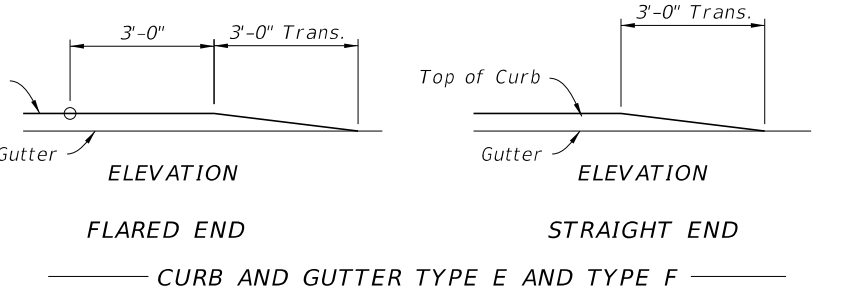
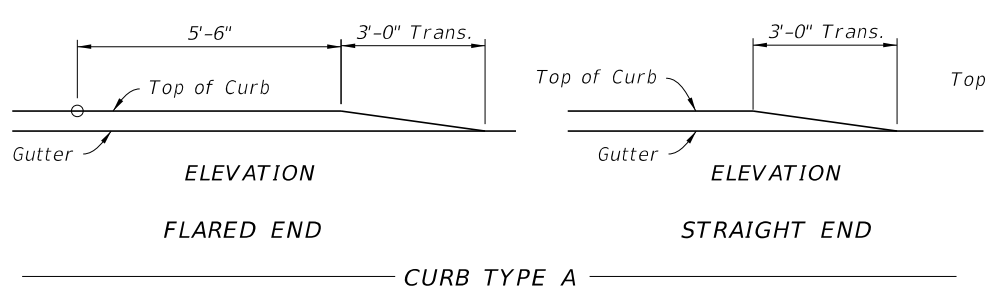
CONTRACTION JOINTS IN CURB

CONTRACTION JOINTS IN CURB & GUTTER



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

EXPANSION JOINT BETWEEN GUTTER AND CONCRETE PAVEMENT

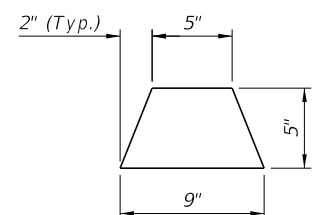
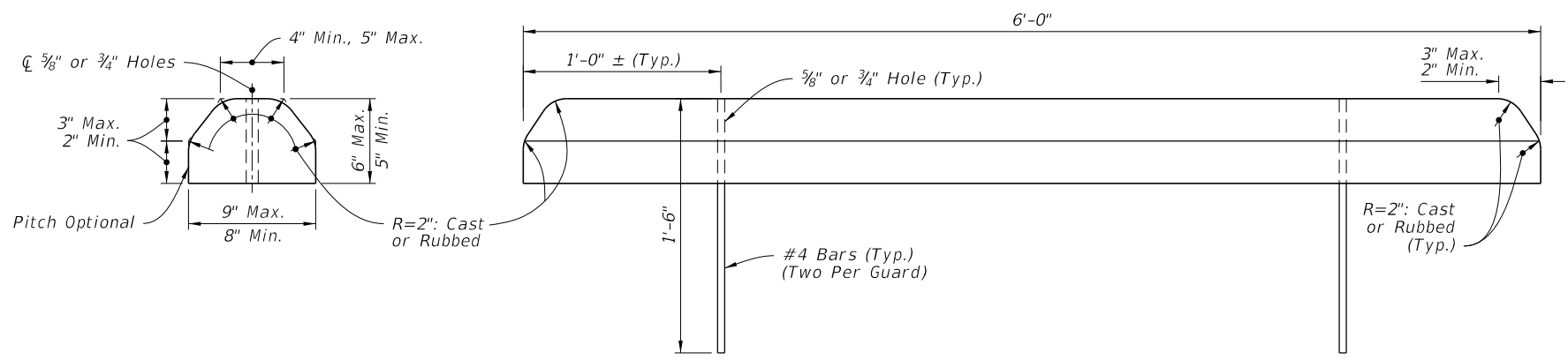


NOTES:  
 1. Surface on Low Side of Pavement to be 1/4" Above Lip of Gutter. Surface on High Side to be Flush With Lip of Curb or Curb & Gutter.  
 2. Applies to both high and low sides of pavement, low side shown. Applies to shoulder gutter only where adjoining traffic lanes.

CURB AND CURB & GUTTER ENDINGS

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

CURB AND GUTTER AND TYPE A CURB ADJACENT TO FLEXIBLE PAVEMENT



CONCRETE BUMPER GUARD

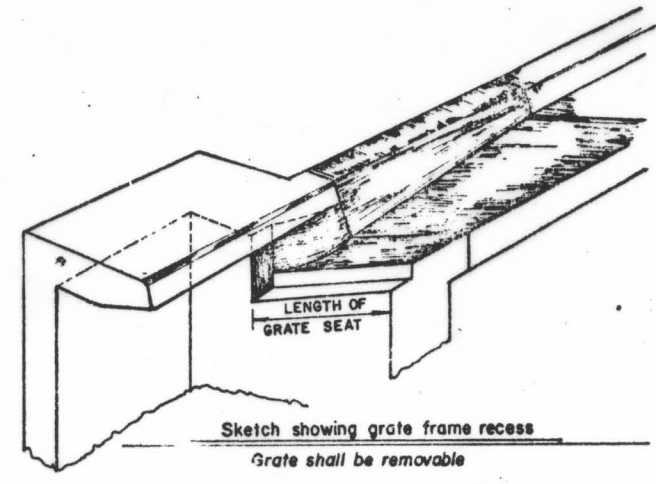
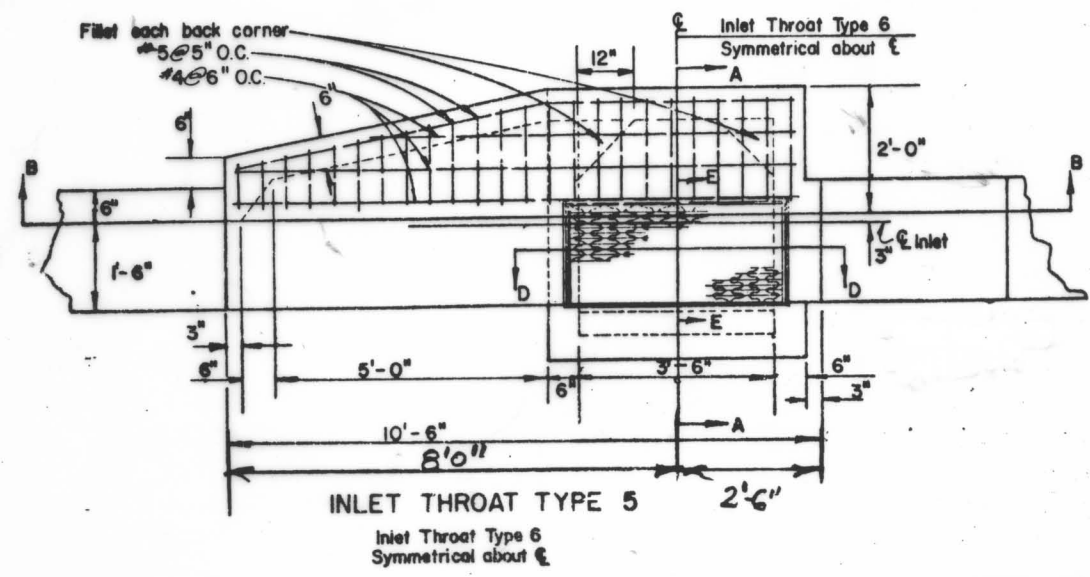
ASPHALTIC CONCRETE CURB

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

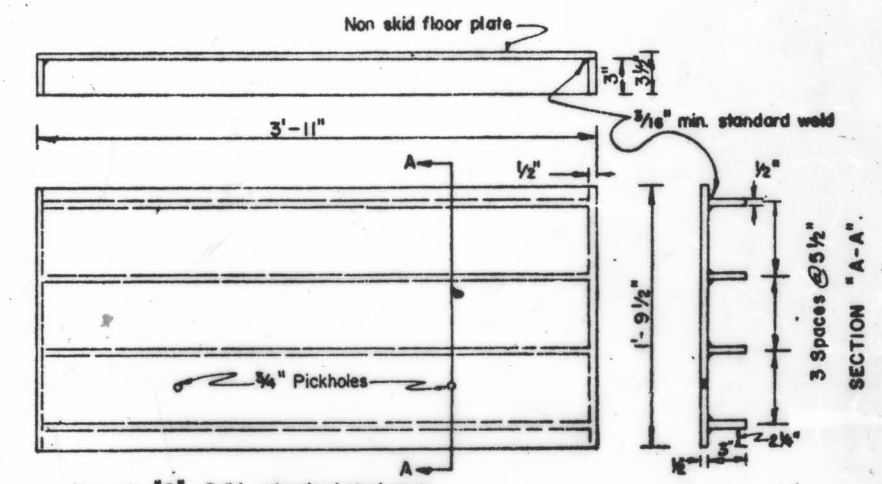
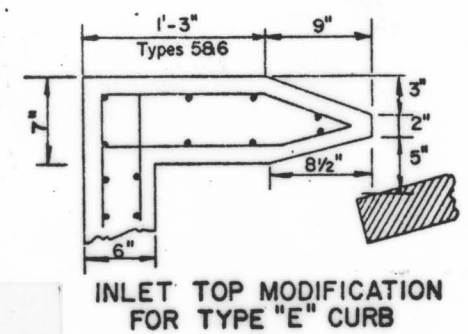
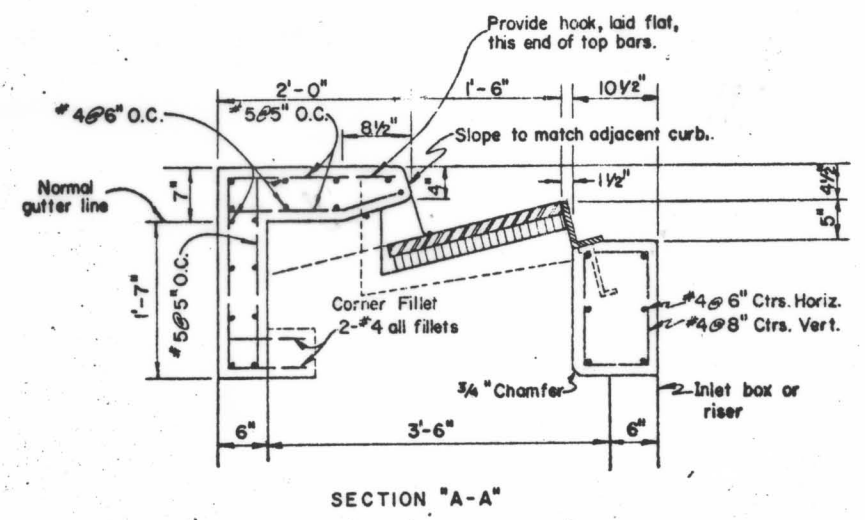
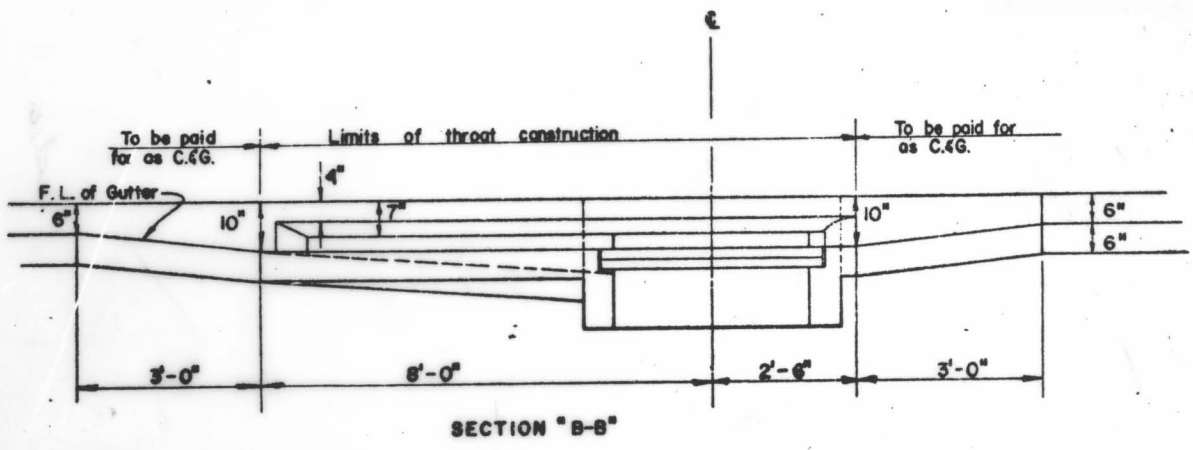
9/21/2021 2:33:07 PM

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

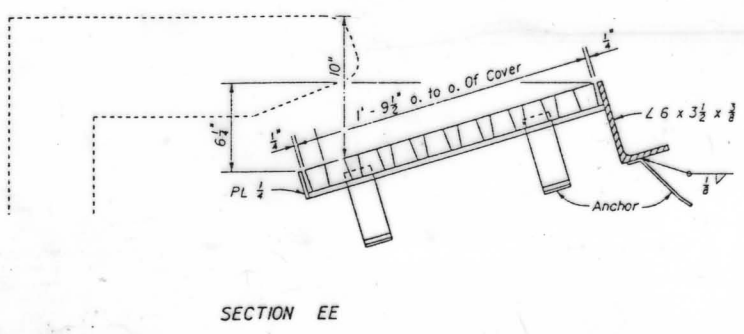
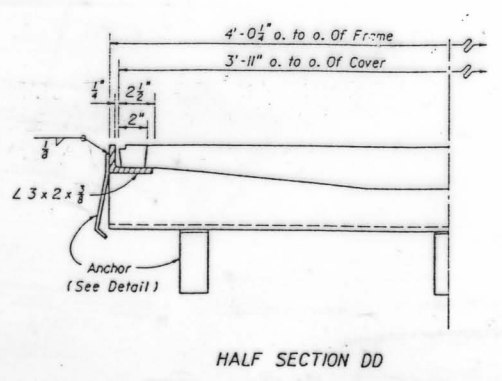
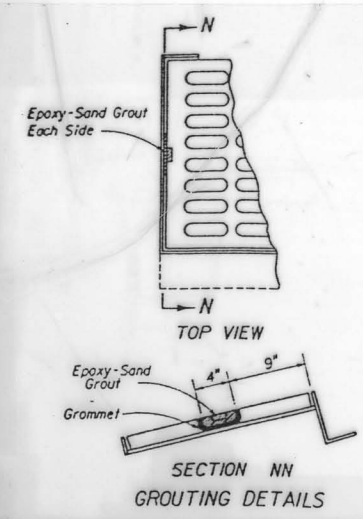




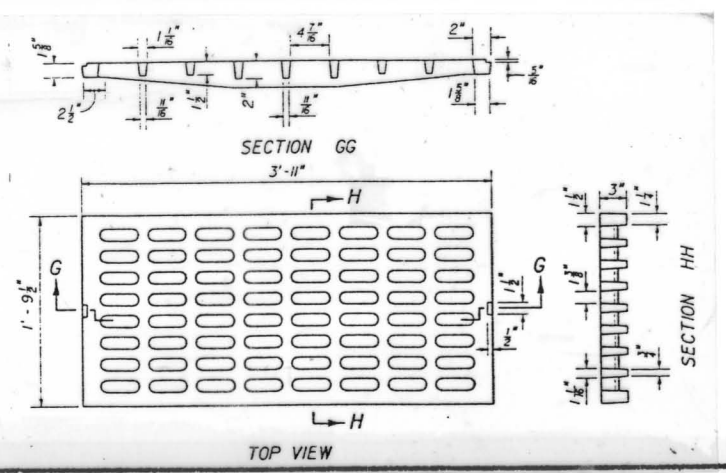
- GENERAL NOTES**
- The finished grade and slope of the inlet tops are to conform with the finished cross slope and grade of the proposed sidewalk and/or parkway.
  - When inlets are to be constructed on a curve, refer to the plans to determine the radius and, where necessary, modify the inlet details accordingly. Bend steel when necessary.
  - All steel in throats shall have 1/4" minimum cover unless otherwise shown. Inlet throats shall be either cast-in-place or precast concrete.
  - 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.
  - See Index DSD-CI for means of locking grate or cover to inlet.
  - These inlet throats were designed for use with std. curb & gutter and Type E curb. Locate outside of pedestrian cross traffic if possible.



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.



**CAST IRON COVER**



REVISIONS	
Date	Description
5-74	Redrawing - Check Index N1

FHWA Approved: 5-1-75

**DADE COUNTY PUBLIC WORKS DEPARTMENT**  
HIGHWAY DIVISION

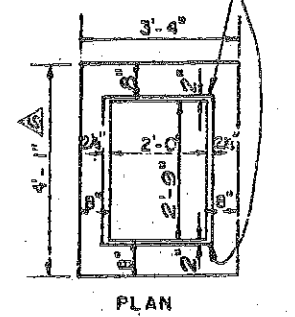
DCI - 02  
CURB INLET  
TYPES "5" & "6"

DESIGN	DRAWN	CHECK	PROPOSED
SUBMITTED	RECOMMENDED	APPROVED	
DATE	PROJ.	SHEET	OF 1

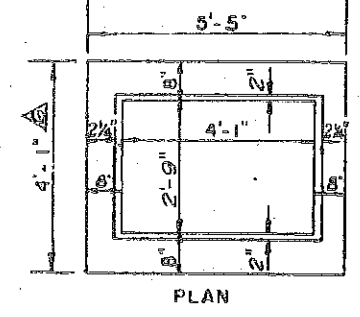
PLEASE RETAIN THIS SHEET FOR STANDARD TYPAR SHEET YOUR PERMANENT FILES.



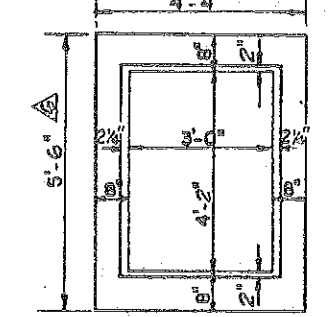
NOTE: Recess Sill to receive and provide support for 2 1/2" deep portion of Cast Iron Grate (Types C & E).



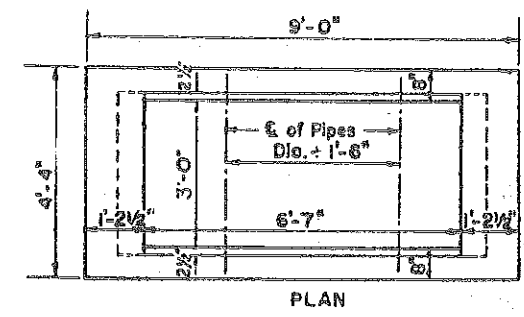
PLAN



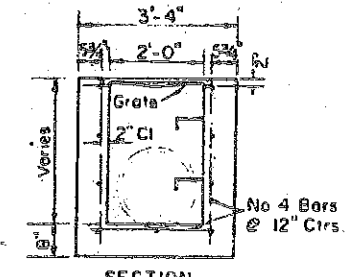
PLAN



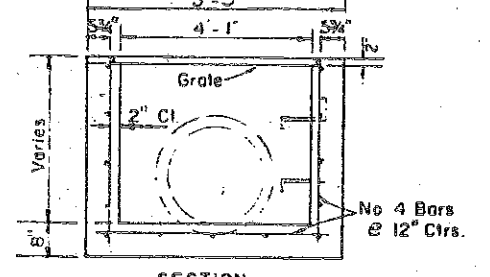
PLAN



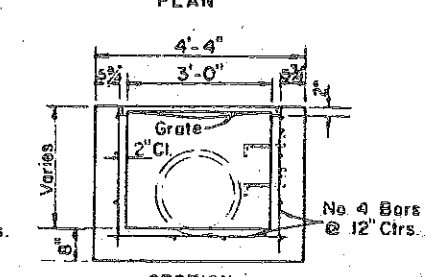
PLAN



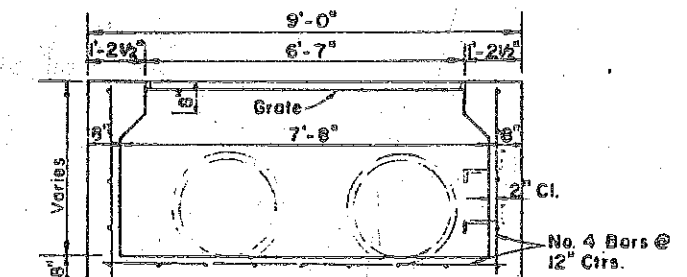
SECTION  
2'-0" X 2'-9" TYPE C



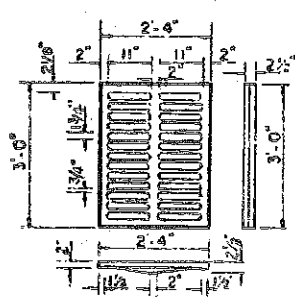
SECTION  
4'-1" X 2'-9" TYPE D



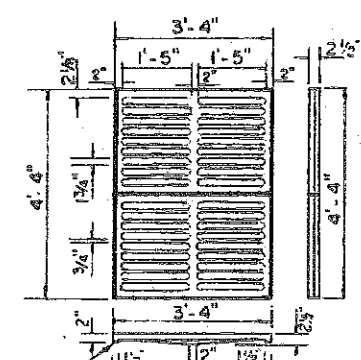
SECTION  
3'-0" X 4'-2" TYPE E



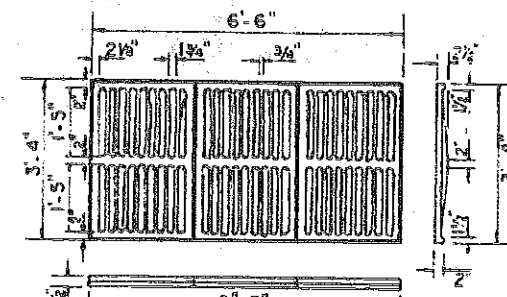
SECTION  
3'-0" X 7'-8" TYPE H



TYPE C  
Approx Weight 235 Lbs

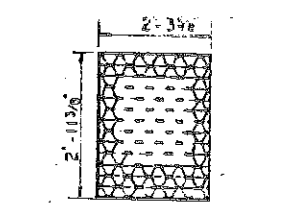


TYPE E  
Approx Weight 465 Lbs

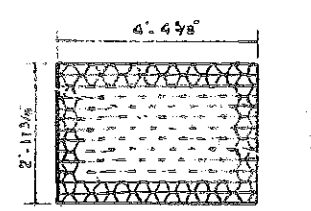


TYPE H  
Approx Weight 725 Lbs

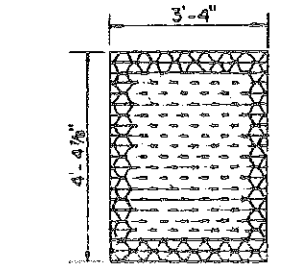
DETAILS OF CAST IRON GRATING



TYPE C  
Straight Bars 2" X 3/16"  
Reticulate Bars 1 1/4" X 3/16"  
Approx Weight 100 Lbs



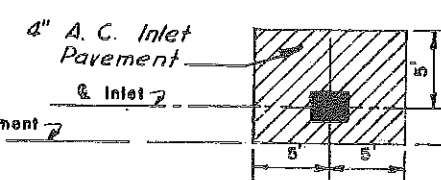
TYPE D  
Straight Bars 2" X 3/16"  
Reticulate Bars 1 1/4" X 3/16"  
Approx Weight 180 Lbs



TYPE E  
Straight Bars 2" X 3/16"  
Reticulate Bars 1 1/4" X 3/16"  
Approx. Weight 215 Lbs

DETAILS OF STEEL GRATING

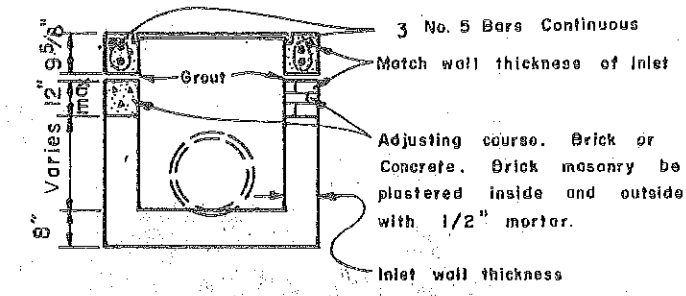
NOTE: Cast iron grates shall be used unless otherwise noted and shall be chain locked to inlet.



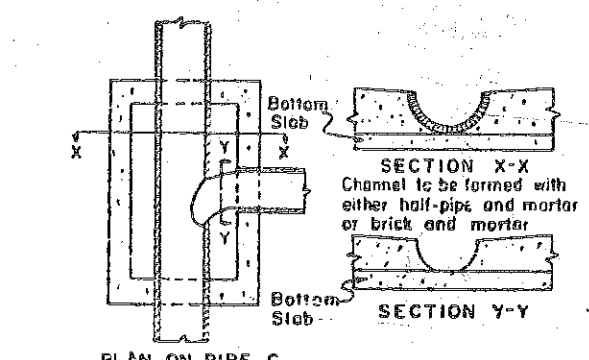
DETAILS OF INLET PAVING

All Inlet Pavement to 11 S.Y. unless otherwise noted in plan.

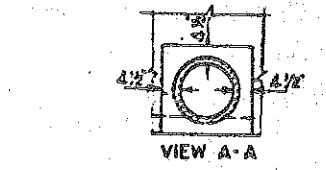
NOTE: The Contractor has the option of using this collar detail in constructing any of the inlets shown on this sheet.



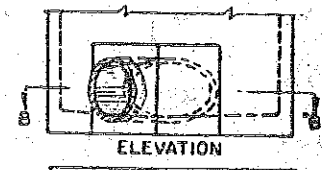
DETAIL OF INLET COLLAR



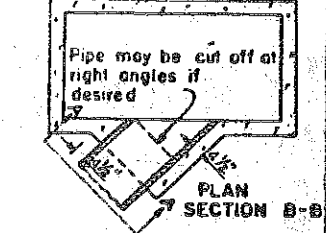
DETAIL OF BOTTOM CONSTRUCTION WHEN INLET SERVES AS MANHOLE



VIEW A-A

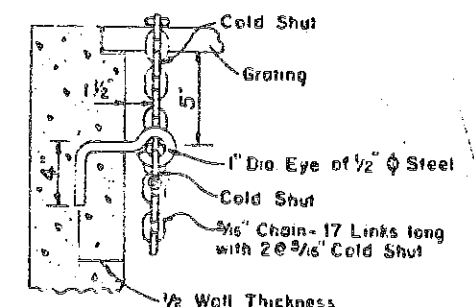


ELEVATION

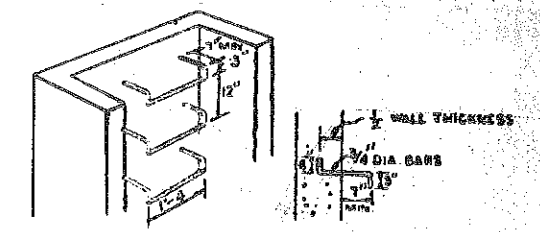


PLAN SECTION B-B

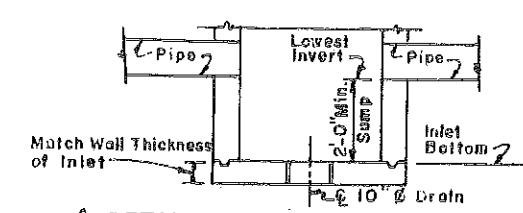
DETAIL PIPE COLLAR FOR USE WHEN PIPE MEETS BOX AT ANGLE



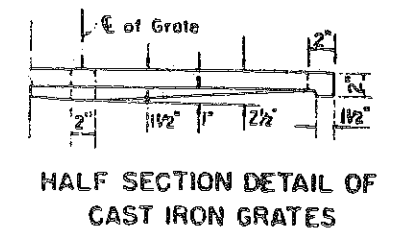
DETAIL OF EYE BOLT AND CHAIN FOR LOCKING GRATES TO INLETS



DETAIL OF LADDER BARS  
Use for box heights over 4'-0"



DETAIL OF SUMP MODIFICATION  
Use only when specified on Plans



HALF SECTION DETAIL OF CAST IRON GRATES

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. cut floor and carry walls down to satisfactory foundation. Backfill to FL. with clear sand.
- CAST IRON: In accordance with Florida State Road Department Specifications
- STEEL DECKING: Manufactured by Borden, Florida Steel, Irving, Reliance, Groulich, (or Equal).

REVISION	DATE	DESCRIPTION	BY	REVISION	DATE	DESCRIPTION	BY
				10-58		Detail of Inlet Collar	OGB
				12-67		Detail of Inlet Paving	A.R.
				9-67		Note, Re: Cast Iron Grates	R.J.S.
				4-68		Detail of Sump Modification	H.W.

**DADE COUNTY PUBLIC WORKS DEPARTMENT**  
HIGHWAY DIVISION 20

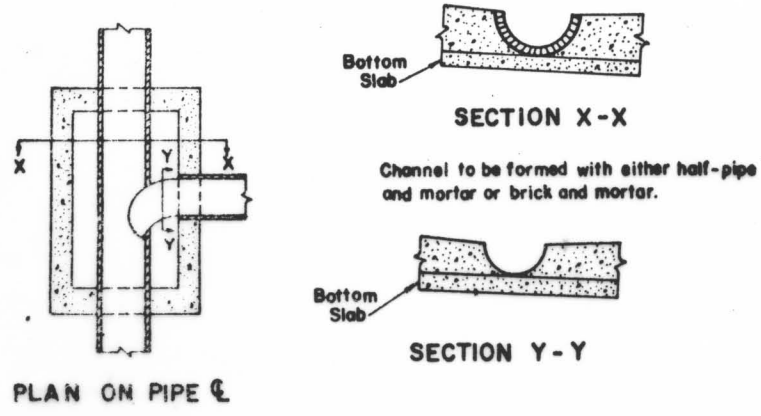
DESIGN S.R.D. STANDARD DITCH BOTTOM INLETS, TYPE C, D, E, & H  
DRAWN

CHECKED P.F. Kanner  
APPROVED J.A. Hendon

SUBMITTED by *W. J. ...*  
RECOMMENDED by *H. ...*  
APPROVED by *...*

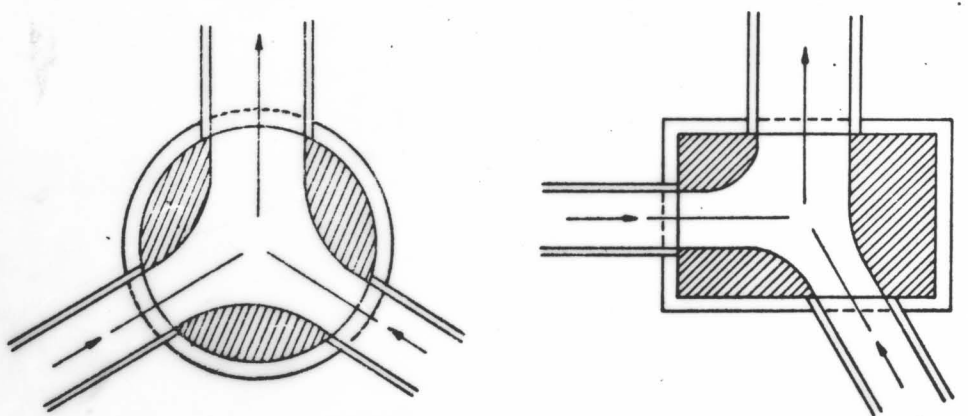
DDI - 03

DATE 3-68 7201 SHEET 64 OF 100



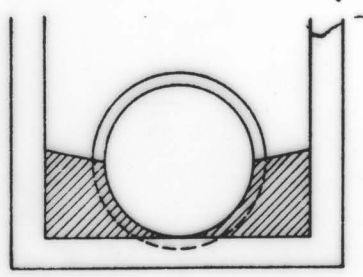
**DETAIL OF BOTTOM CONSTRUCTION WHEN INLET SERVES AS MANHOLE**

**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".

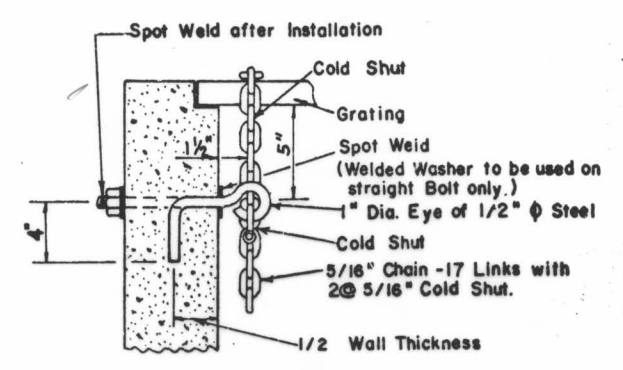


**DETAIL OF CHANNELIZATION**

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

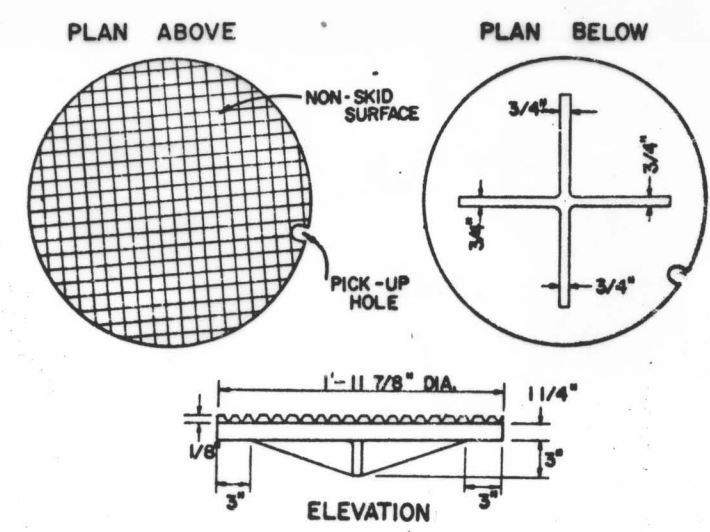


Smooth flow channels composed of concrete, or brick and mortar shall be constructed in the bottoms of all structures to a depth equal to half the diameter of the largest pipe.

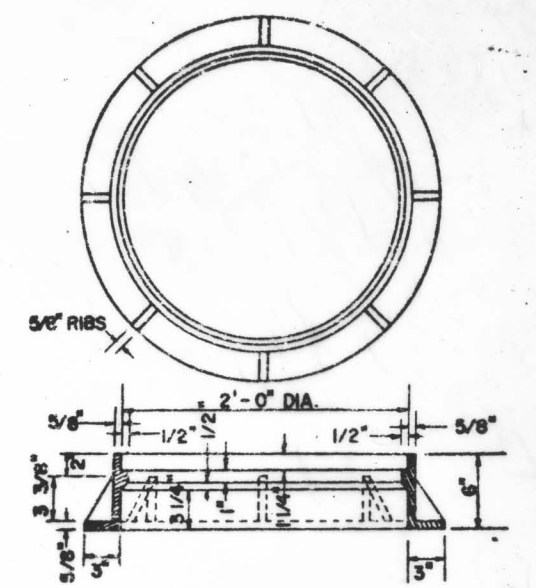


**DETAIL OF EYE BOLT AND CHAIN FOR LOCKING GRATES TO INLETS**

Note: One required per inlet grate.

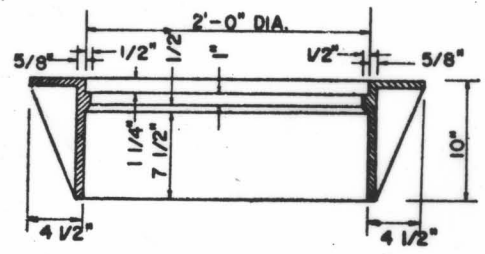
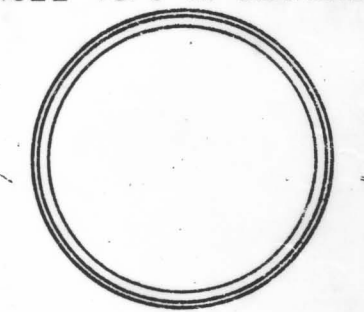


**COVER FOR ALL FRAMES (WHEEL LOADS H-20)**

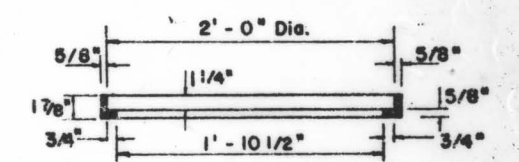


**TYPE I FRAME FOR MANHOLES AS SHOWN ON INDEX DSB-01**

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



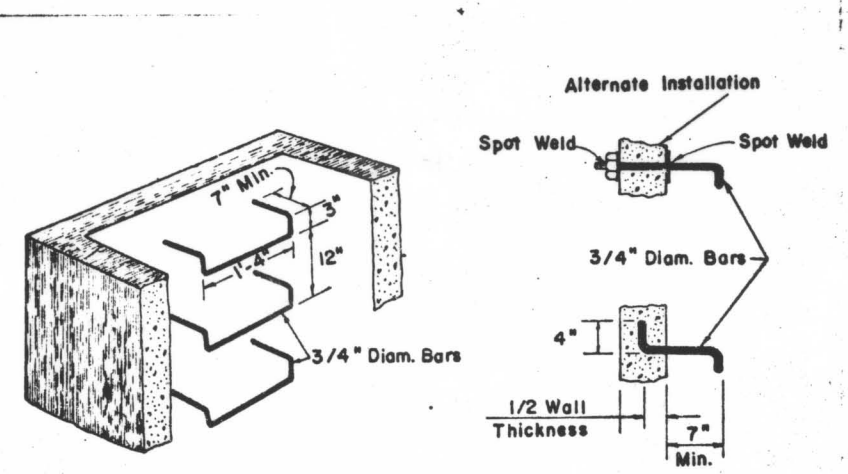
**TYPE II FRAME For Type 1, 2, 3 & 4 Inlets CAST IRON**



**TYPE III FRAME For Type 7 & 8 Inlets**

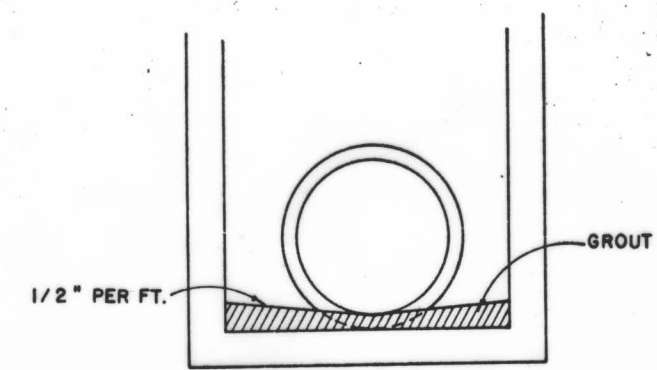
**FRAME AND COVER DETAILS**

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



**DETAIL OF LADDER BARS**

Use for box heights over 10'-0"



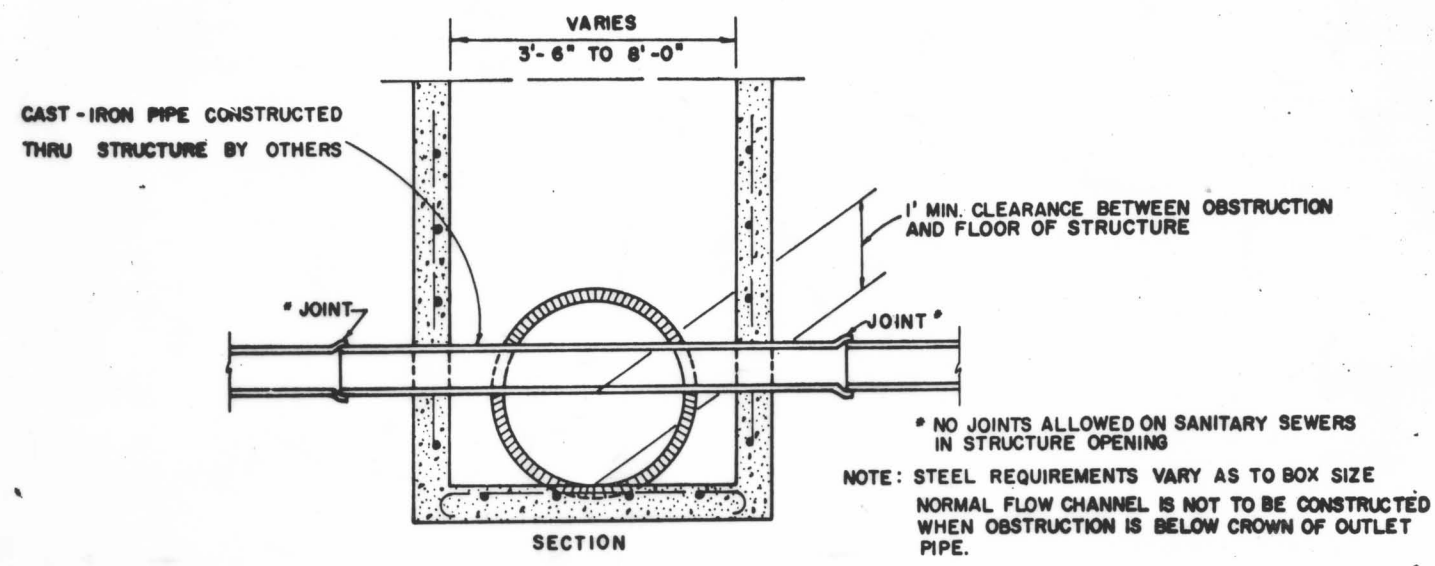
**ALTERNATE LOCATION OF PIPE IN STRUCTURE WHEN PREFABRICATED FLOOR SLAB IS USED**

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

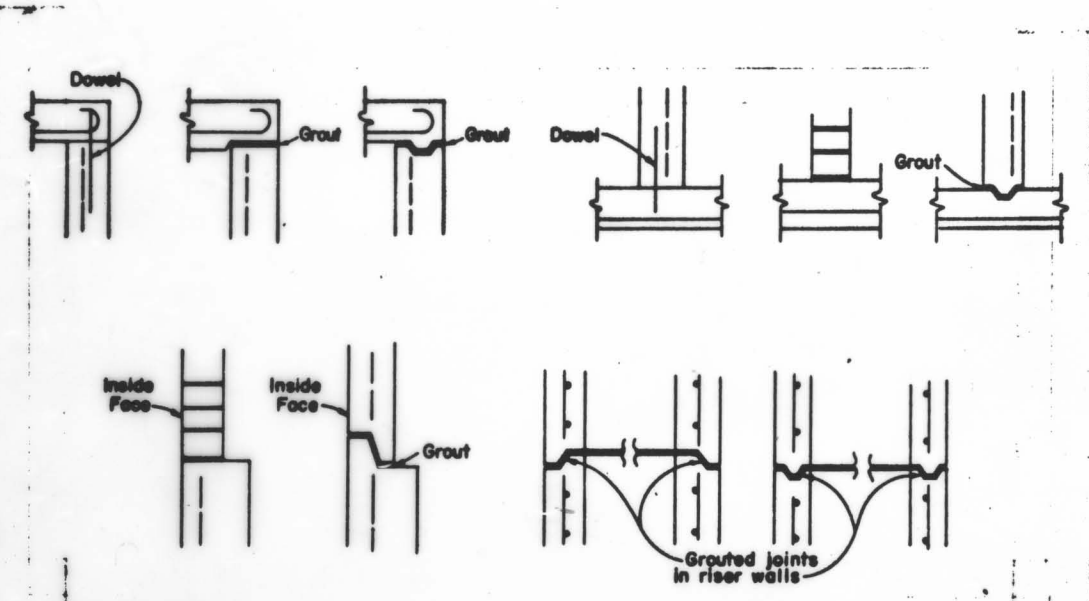
FHWA Approved: 5-1-75

27

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	

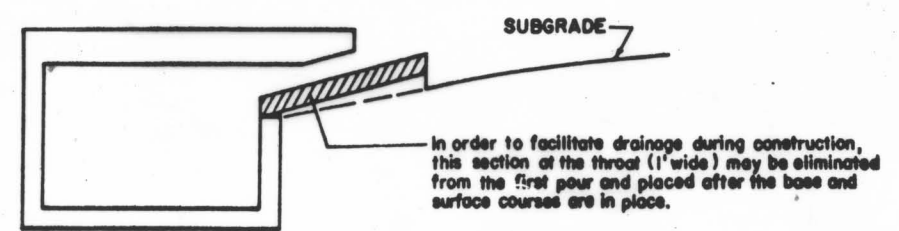


**DETAIL SHOWING PIPE CONSTRUCTED THRU STORM SEWER STRUCTURE**

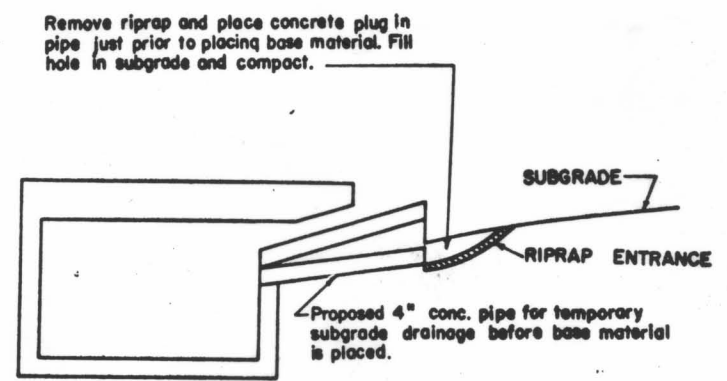


- NOTES -**
1. Any type joint may be used in conjunction with any other type joint.
  2. All grouted joints are to have a maximum thickness of 1".
  3. Keyways are to be a minimum of 1 1/2" deep.
  4. Joint dowels are to be #4 bars, 12" long with a minimum of 6 bars per joint evenly spaced.
  5. Minimum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

**OPTIONAL CONSTRUCTION JOINTS**



**ALTERNATE A**



**ALTERNATE B**

**DETAIL OF TEMPORARY SUBGRADE DRAINS**  
(Cost to be included in the unit price bid for inlets.)  
(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.

28

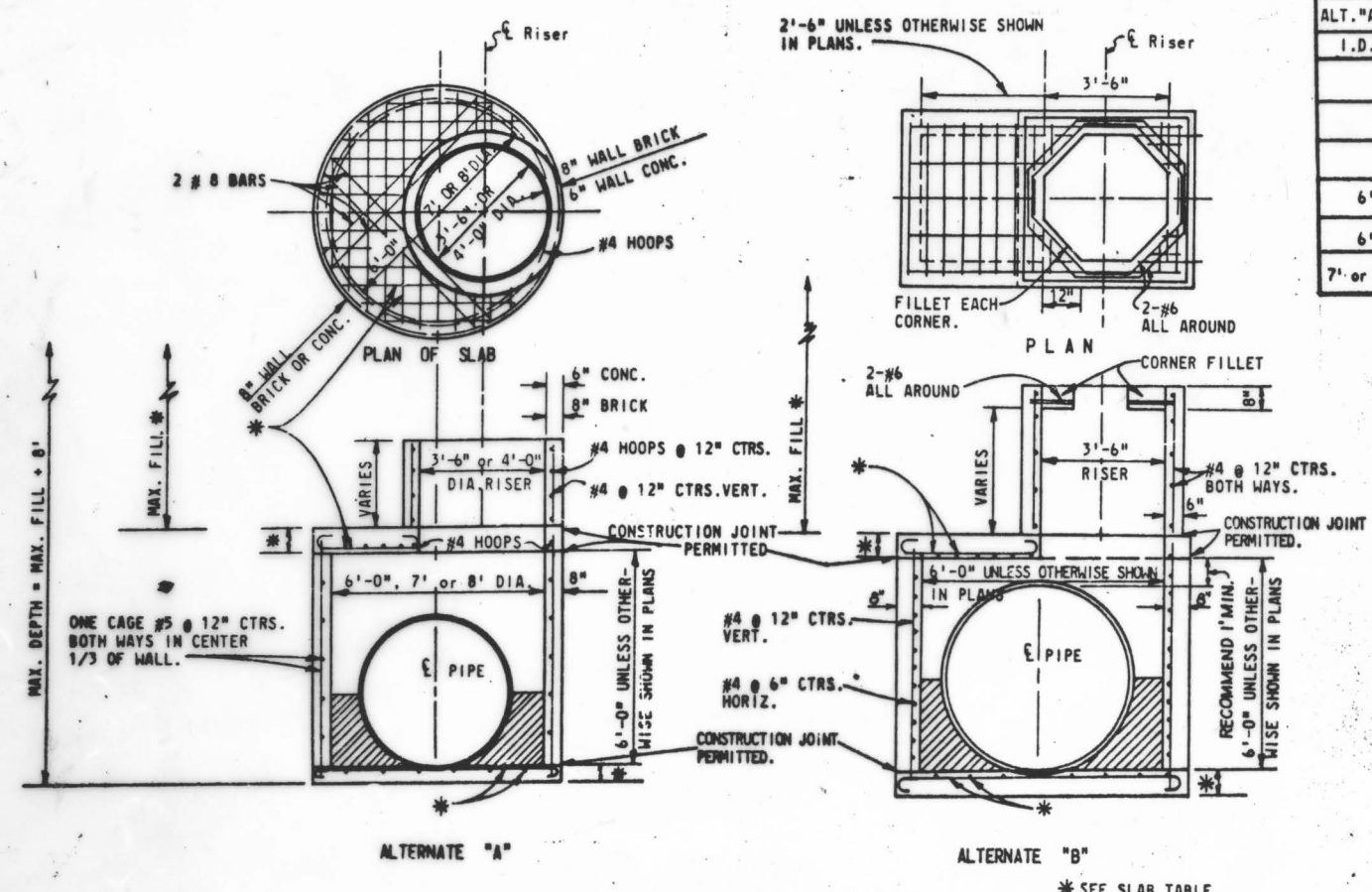
FHWA Approved: 5-1-75

**DADE COUNTY PUBLIC WORKS DEPARTMENT**  
HIGHWAY DIVISION

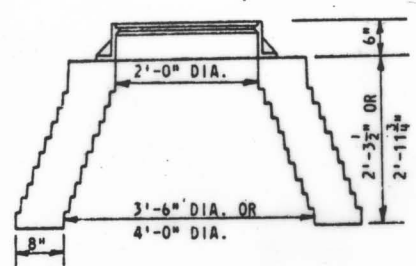
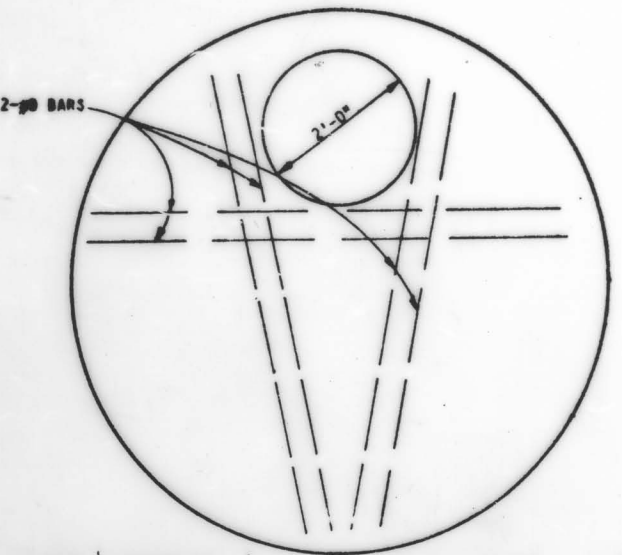
DESIGN	DSD-01	
DRAWN		
CHECK	SUPPLEMENTARY DET. FOR MANHOLE & INLET STRUCTURES	
PROPOSED		
SUBMITTED	RECOMMENDED	APPROVED
HIGHWAY ENGINEER	CHIEF ENGINEER	DIRECTOR
DATE	PROJ.	SHEET 2 OF 2



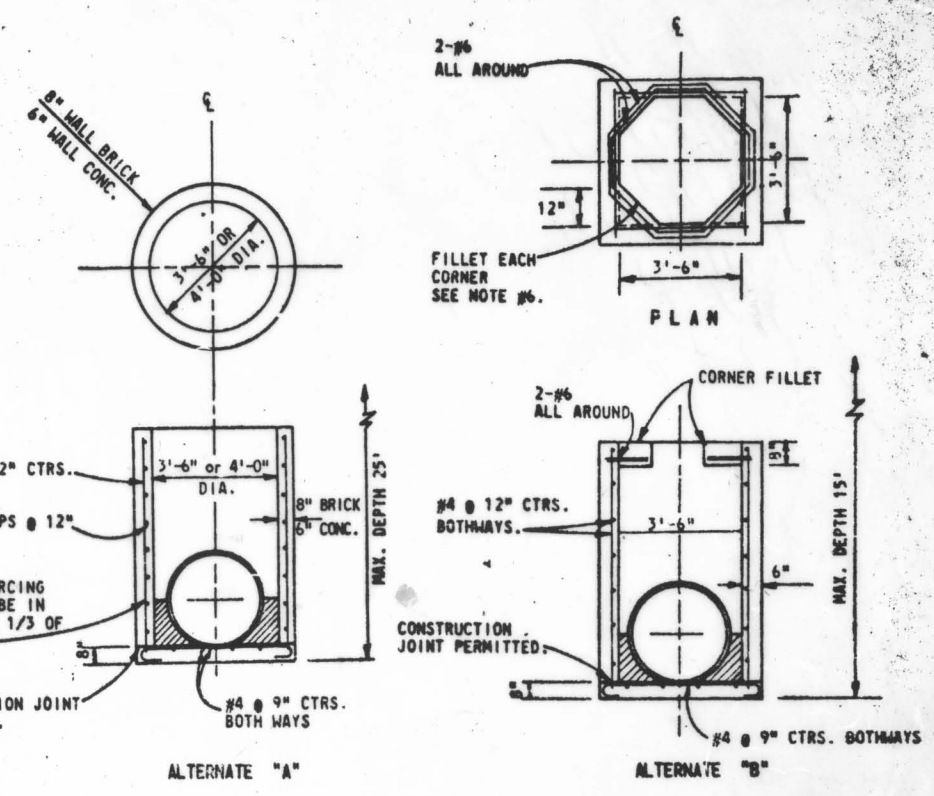
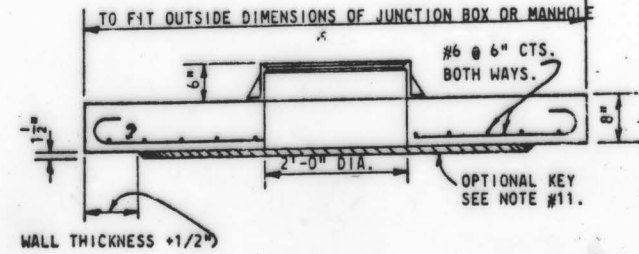
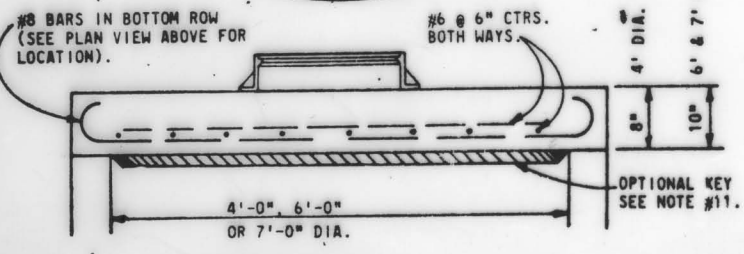
TOP AND FLOOR SLAB TABLE TYPE "J"					
ALT. "A" I.D.	ALT. "B" BOX WIDTH	SLAB THICKNESS	ALLOWABLE FILL OVER TOP SLAB		REINFORCING TOP & FLOOR SLABS
			MIN.	MAX.	
3'-6"	8"	8"	2'	29'	#6 @ 6" CTRS. B.W.
5'-0"	8"	8"	2'	25'	#6 @ 6" CTRS. B.W.
5'-0"	10"	10"	2'	27'	#7 @ 6" CTRS. B.W.
6'-0"	8"	8"	2'	20'	#6 @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



NOTE: DETAIL SHOWN IS FOR BRICK CONSTRUCTION.



GENERAL NOTES

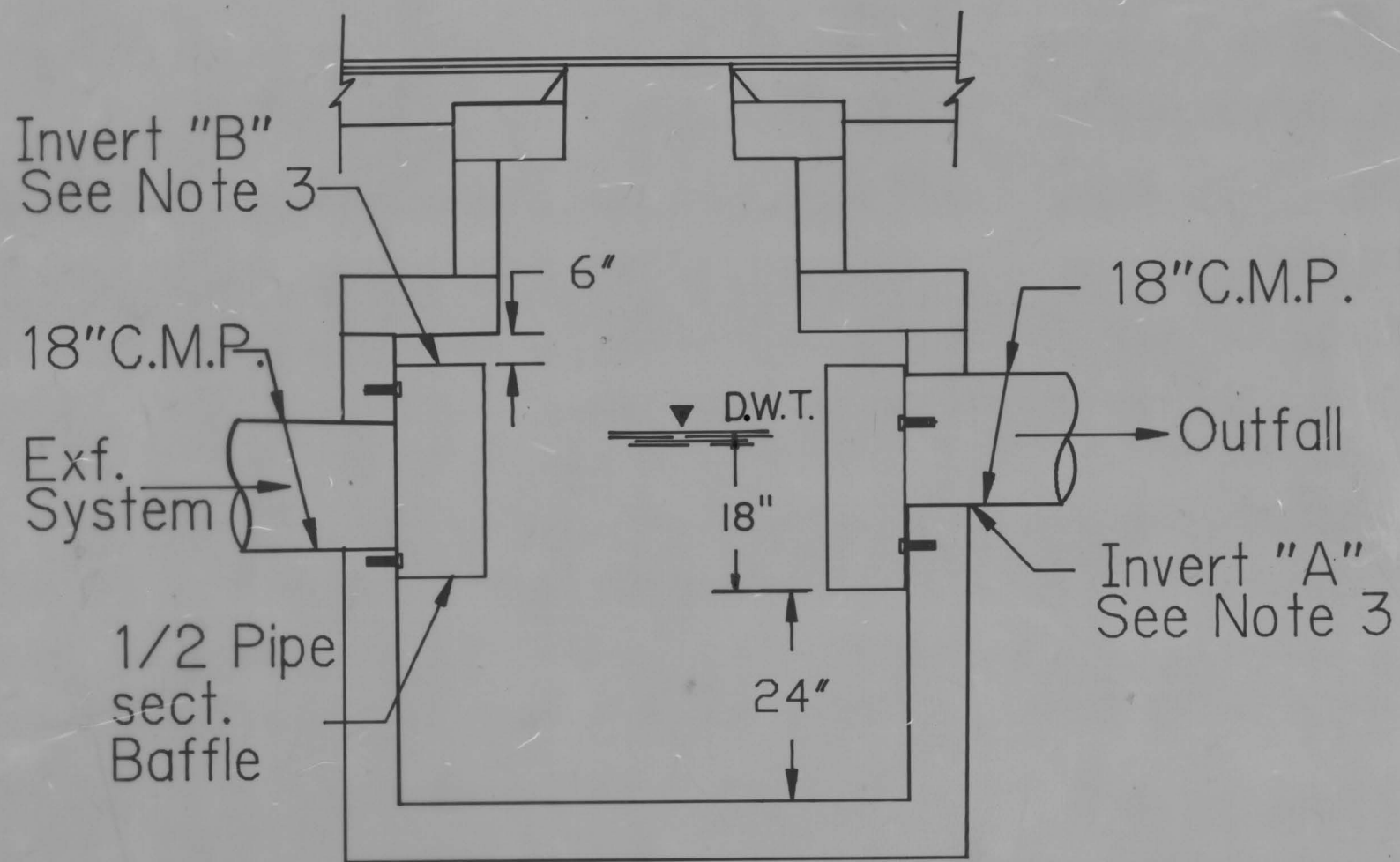
- WALLS OF CIRCULAR STRUCTURES (ALTERNATE "A") MAY BE CONSTRUCTED OF CONCRETE OR BRICK, BUT RECTANGULAR STRUCTURES (ALTERNATE "B") SHALL BE CONSTRUCTED OF CONCRETE ONLY. THE CONCRETE MAY BE CAST-IN-PLACE OR PRECAST.
- WALL REINFORCEMENT AND THICKNESS ARE FOR EITHER CAST-IN-PLACE OR PRECAST CONCRETE UNITS 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.
- 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.
- 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.
- 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.
- RECTANGULAR STRUCTURES MAY BE ROTATED AS DIRECTED BY THE ENGINEER IN ORDER TO FACILITATE CONNECTIONS BETWEEN THE STRUCTURE WALLS AND STORM SEWER PIPES.
- 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).
- 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.
- STRUCTURES WITH DEPTHS OVER 14' ARE TO BE CHECKED FOR FLotation BY DESIGNER OF PROJECT DRAINAGE.
- ALL STEEL BARS SHALL HAVE 1 1/2" 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 DWEL BARS (A MINIMUM OF 6 DWELS) PUSHED INTO THE WET CONCRETE AFTER THE FLOOR SLAB IS PLACED.
- 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 DWELS. 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.
- 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.
- 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.
- FOR SUPPLEMENTARY DETAILS SEE INDEX NO.DSD-01 AND 3-E OR 3-E-1.

FHWA Approved: 5-1-75

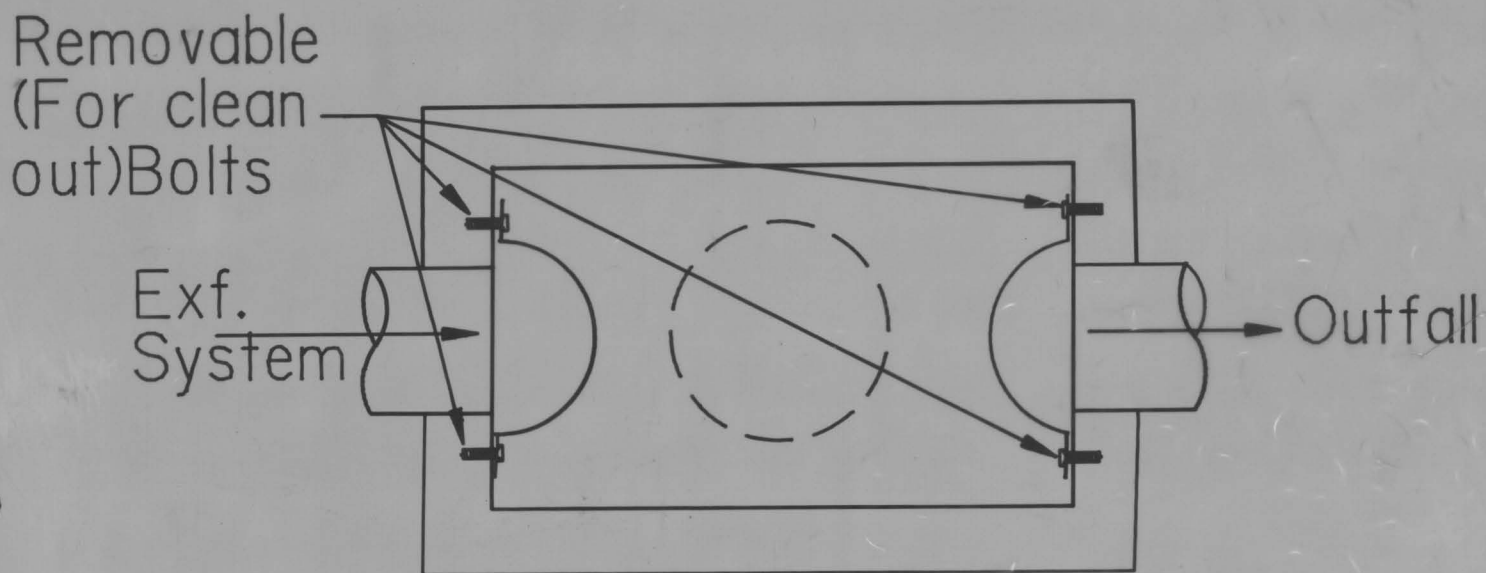
DADE COUNTY PUBLIC WORKS DEPARTMENT  
HIGHWAY DIVISION

DESIGN		DSB-01	
DRAWN		INLET, MANHOLE, JUNCTION BOX TYPES J & P	
CHECK			
PROPOSED			
SUBMITTED	RECOMMENDED	APPROVED	
DATE	PROJ.	DATE	SHEET 1 OF 1

# POLLUTION CONTROL STRUCTURE



SIDE VIEW



TOP VIEW

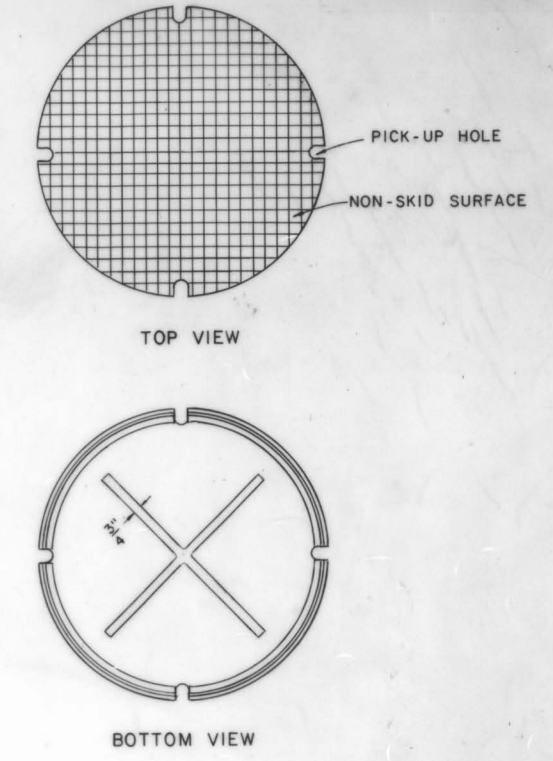
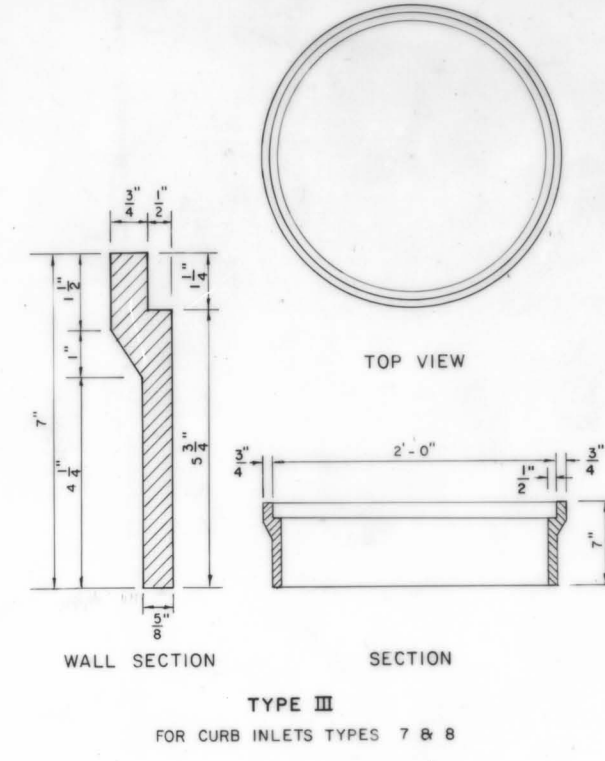
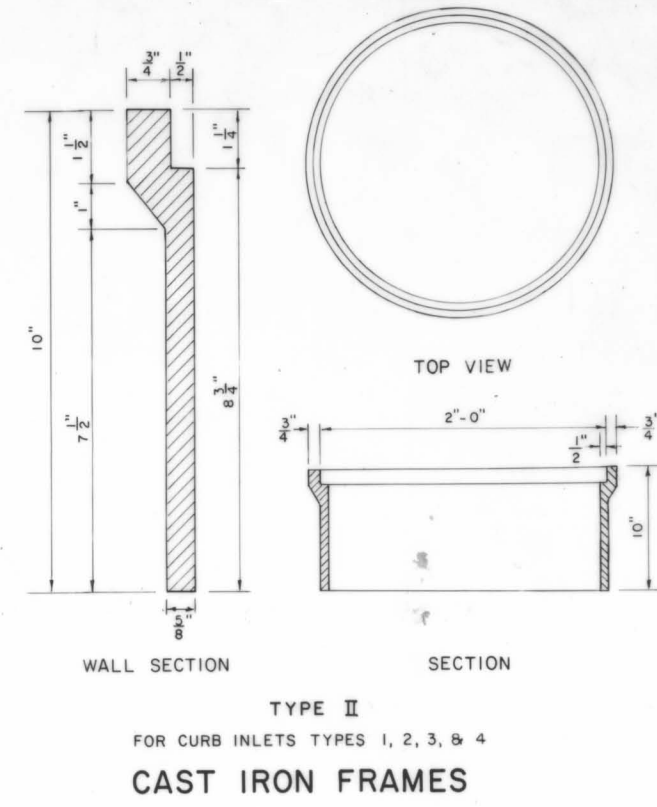
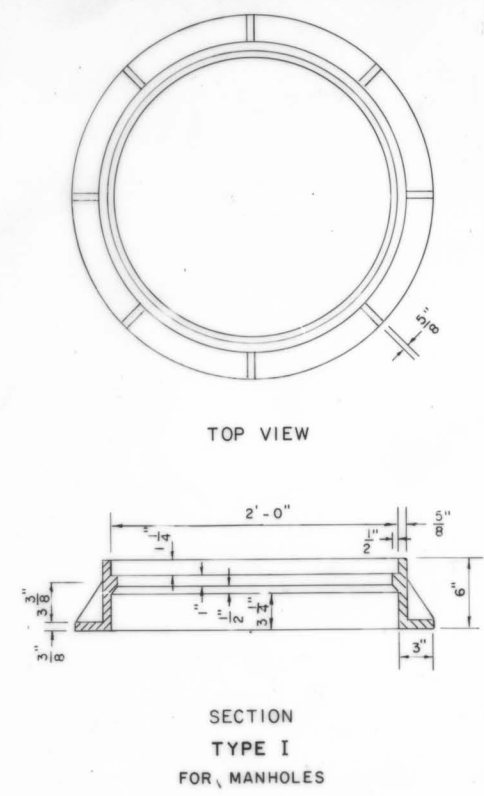
**NOTES:**

1. All dimensions are minimum.
2. Standard 3'-6" x 6" "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.

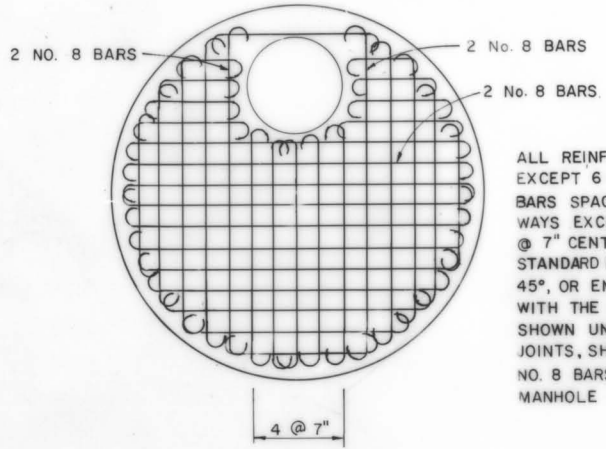
29.2

DADE COUNTY PUBLIC WORKS DEPARTMENT		
HIGHWAY DIVISION		29.2
DESIGN	P. C. S. - 1	
DRAWN		
CHECK		
PROPOSED		
SUBMITTED	RECOMMENDED	APPROVED
DATE <b>July, 1989</b>	PROJ	SHEET OF

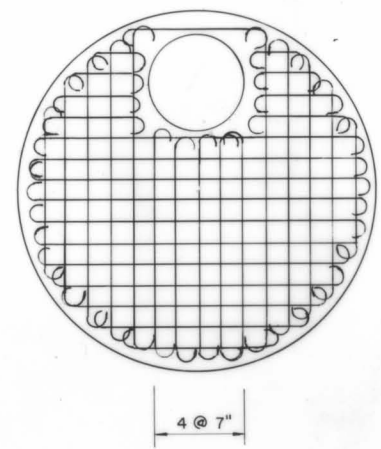




**CAST IRON FRAMES**

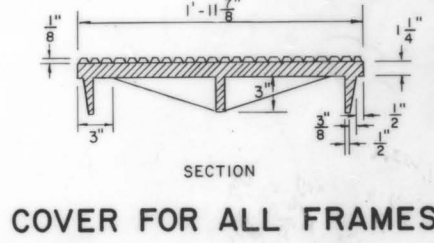


ALL REINFORCEMENT No. 6 BARS EXCEPT 6 No. 8 BARS SHOWN. BARS SPACED @ 6" CENTERS BOTH WAYS EXCEPT MIDDLE BARS SHOWN @ 7" CENTERS. ALL BARS WITH ACI STANDARD HOOKS CANTED APPROX. 45°, OR EMBEDDED IN ACCORDANCE WITH THE SLAB REINFORCEMENT DETAIL SHOWN UNDER OPTIONAL CONSTRUCTION JOINTS, SHEET NO. 2 OF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

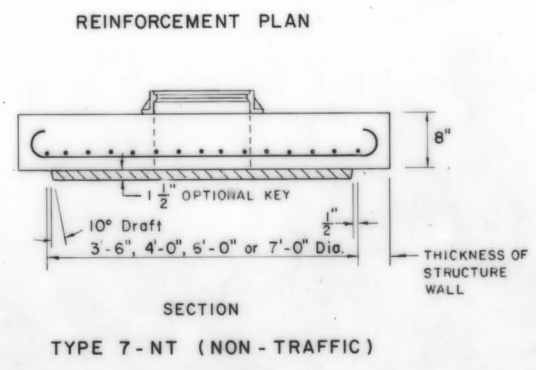
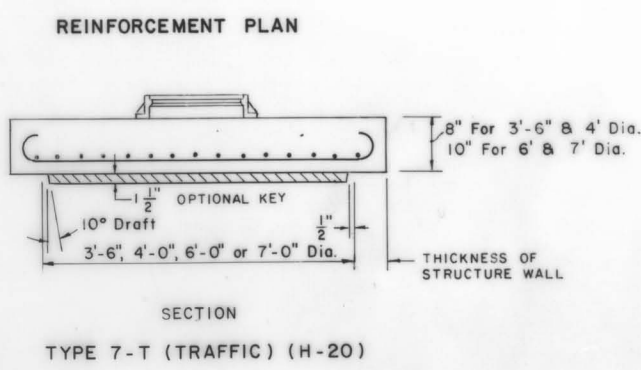


REINFORCING BARS @ 6" CENTERS BOTH WAYS EXCEPT MIDDLE BARS SHOWN @ 7" CENTERS. ALL BARS WITH ACI STANDARD HOOKS CANTED APPROX. 45°, OR EMBEDDED IN ACCORDANCE WITH THE SLAB. REINFORCEMENT DETAIL SHOWN UNDER OPTIONAL CONSTRUCTION JOINTS. SHEET 3 OF 3, EXCEPT BARS AROUND MANHOLE OPENING SHALL BE HOOKED.

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

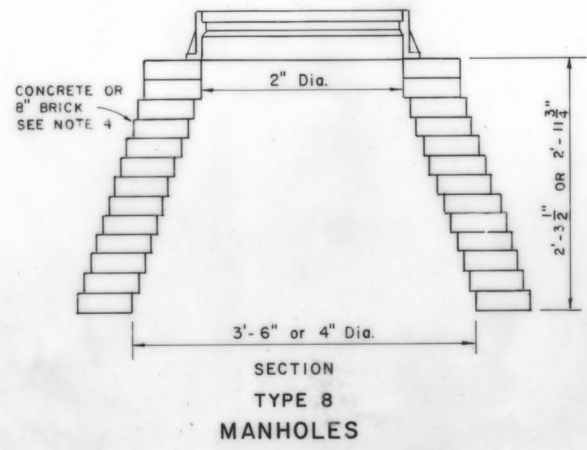


- NOTES (TOPS, FRAMES AND COVER):**
- ALL STEEL BARS SHALL BE NEW BARS IN ACCORDANCE WITH ASTM A615, GRADE 60 AND HAVE 1/4" MINIMUM COVER UNLESS OTHERWISE SHOWN AND SHALL BE HOOKED WHERE INDICATED.
  - MANHOLE TOP TYPE 7 SLABS SHALL BE OF CLASS II CONCRETE (f'c = 3400 P.S.I.).
  - MANHOLE TOP TYPE 7 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.
  - 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.
  - MANHOLE TOPS SHALL BE SECURED TO STRUCTURES BY OPTIONAL CONSTRUCTION JOINTS AS SHOWN ON SHEET NO. 2 OF THIS DETAIL.
  - ALL COVERS TO BE TACK WELDED TO FRAMES AT THIRD POINTS OR GROUTED AT THIRD POINTS WITH EPOXY (TOTAL ELEVEN (11) OUNCES OF MIXED EPOXY).
  - 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).



**MANHOLES OR JUNCTION BOXES**

**STRUCTURE TOPS**



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

32

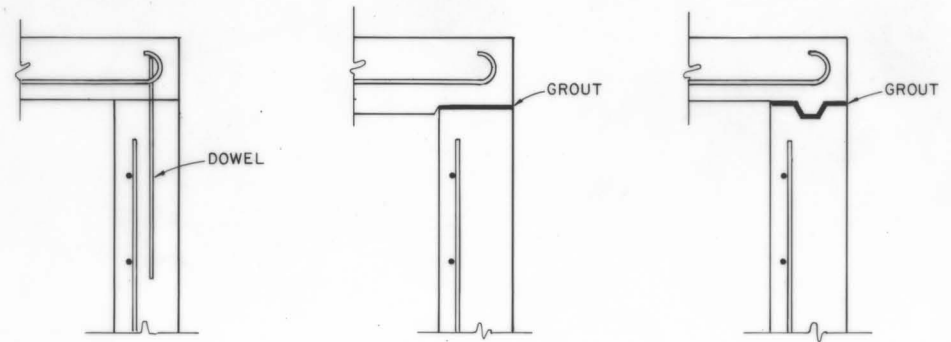
**DADE COUNTY PUBLIC WORKS DEPARTMENT**  
HIGHWAY DIVISION

**SUPPLEMENTARY DETAILS FOR MANHOLES AND INLETS**

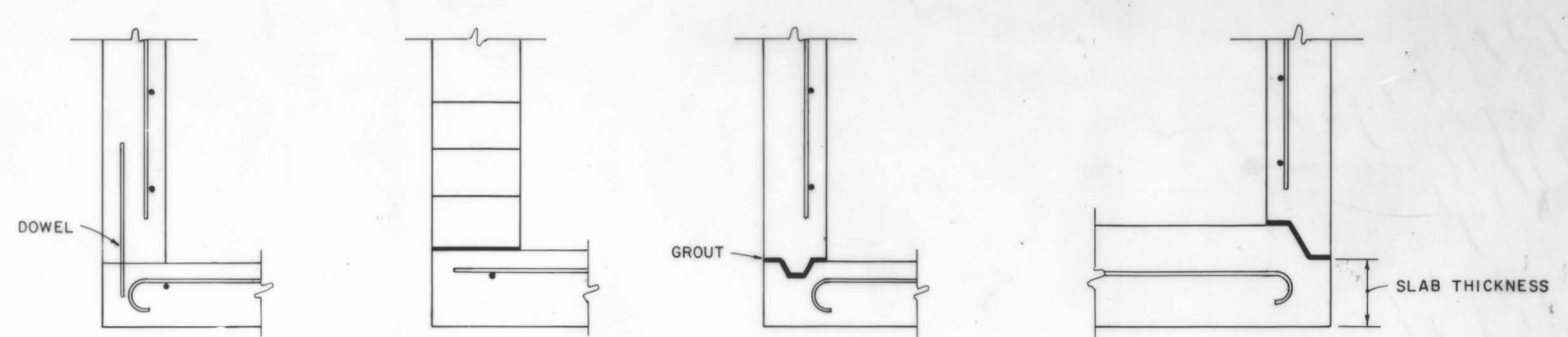
**SMI-1**

DESIGN S.R.D.	<b>SMI-1</b>	RECOMMENDED	APPROVED
DRAWN F.B.		CONTRACT ENGINEER	DIRECTOR
CHECK W. Bliven			
PROPOSED DATE NOV 1983	PROJECT	SHEET 1 OF 2	

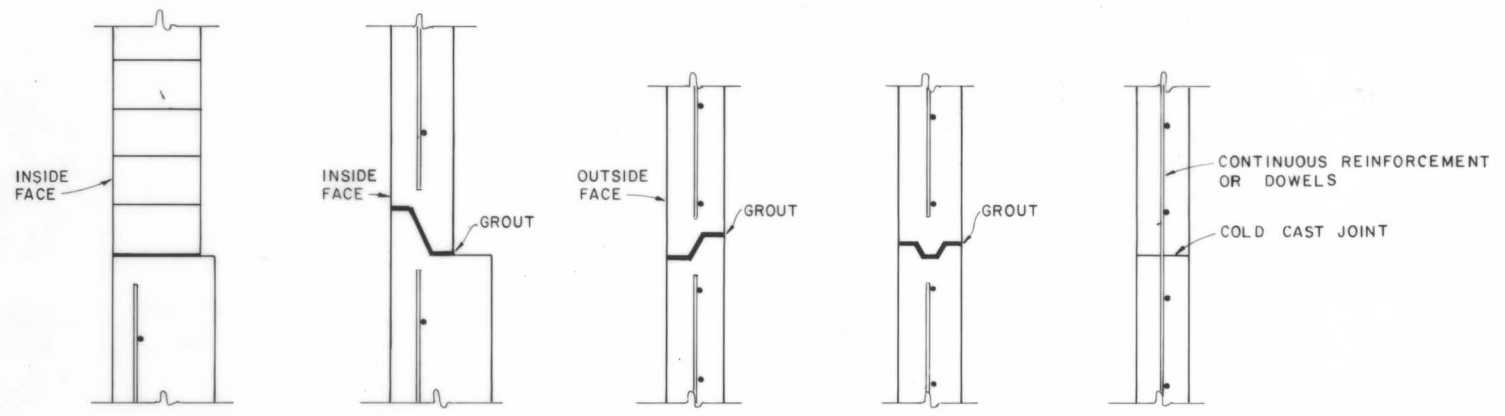




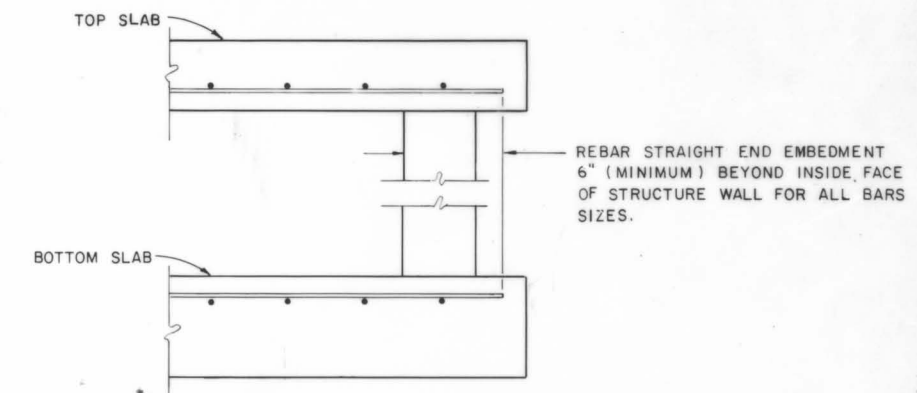
TOP SLABS TO WALLS



BOTTOM SLABS TO WALLS



WALL JOINTS



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

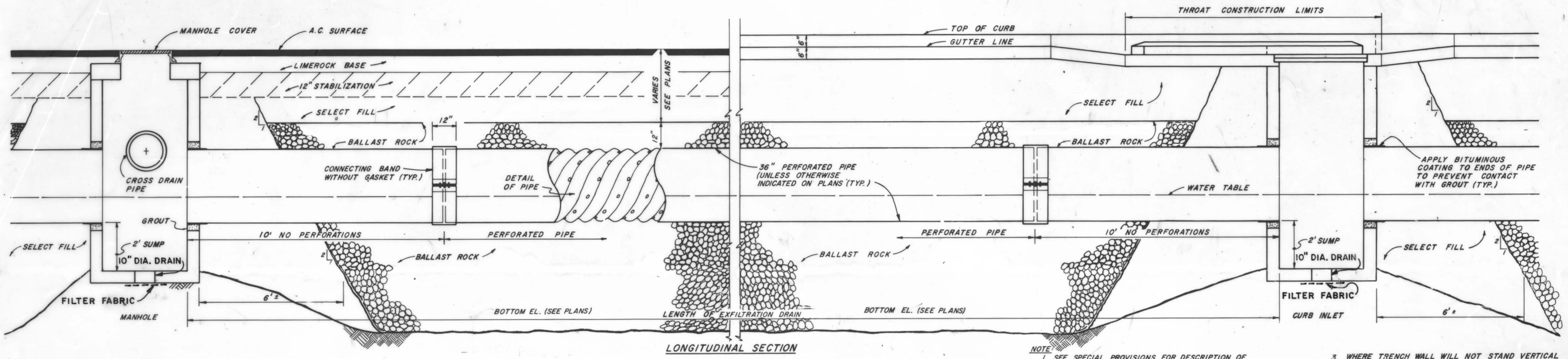
1. ONE OR MORE TYPES OF JOINTS MAY BE USED IN A SINGLE STRUCTURE, EXCEPT BRICK WALL STRUCTURE. BRICK WALL CONSTRUCTION IS PERMITTED ON CIRCULAR UNITS ONLY.
2. ALL GROUTED JOINTS ARE TO HAVE A MAXIMUM THICKNESS OF 1".
3. KEYWAYS ARE TO BE A MINIMUM OF  $1\frac{1}{2}$ " DEEP.
4. JOINT DOWELS ARE TO BE #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

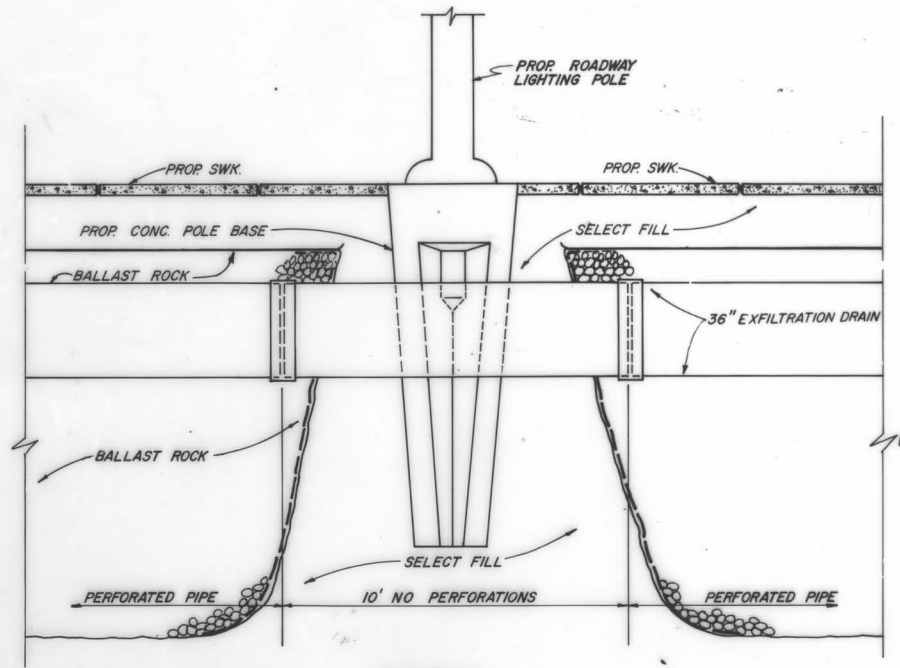
GENERAL NOTES

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 MINIMUM OF 24 BAR DIAMETER AT CORNERS.

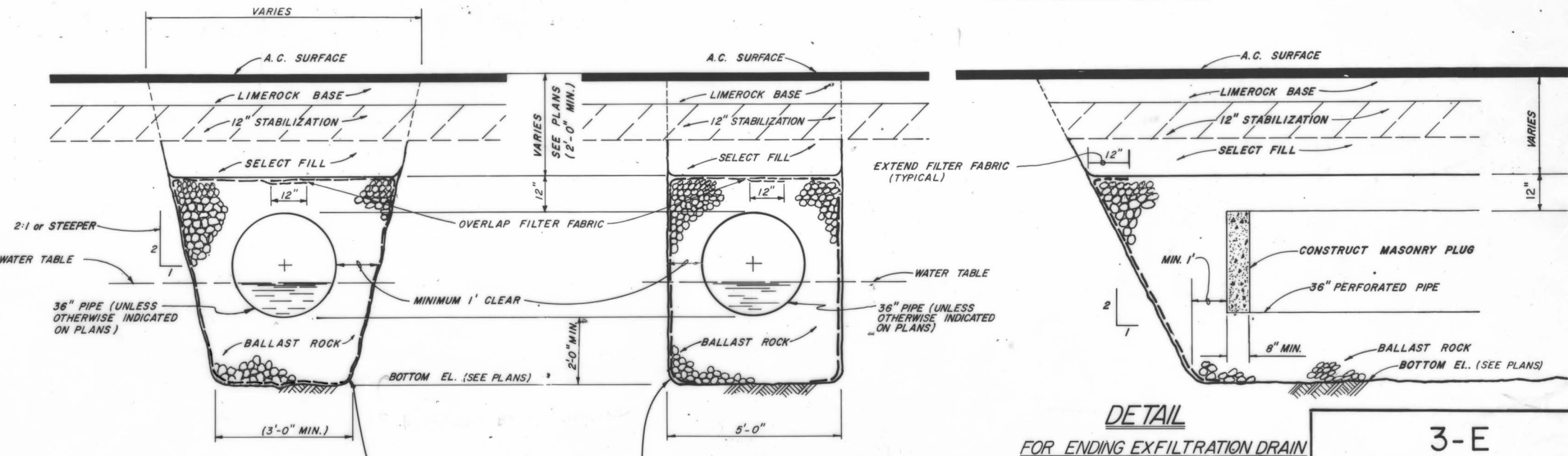
DADE COUNTY PUBLIC WORKS DEPARTMENT HIGHWAY DIVISION		
SUPPLEMENTARY DETAILS FOR MANHOLES AND INLETS		
SMI-02		
DESIGN S.R.D.		
DRAWN F.B.		
CHECK W. Blum		
PROPOSED Date 11/18/83		
SUBMITTED W. Blum	RECOMMENDED W. Blum	APPROVED W. Blum
DATE NOV 1983	PROJ.	SHEET 2 OF 2



- NOTE:**
- SEE SPECIAL PROVISIONS FOR DESCRIPTION OF SELECT FILL, BALLAST ROCK, PERFORATED PIPE AND POLYPROPYLENE FILTER FABRIC.
  - 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.
  - 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.



**CONSTRUCTION OF EXFILTRATION DRAIN ADJACENT TO PROPOSED ROADWAY LIGHTING POLES**  
(FOR USE WHEN  $\varnothing$  PIPE IS 7 FT. OR LESS FROM  $\varnothing$  OF POLE BASE)



**ALTERNATE CROSS-SECTION FOR SANDY SOIL CONDITION**

FILTER "X" OR APPROVED EQUAL. EXTEND FILTER FABRIC TO BOTTOM OF TRENCH. THE USE OF THE FILTER FABRIC WILL BE CONTINGENT UPON FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

**DETAIL FOR ENDING EXFILTRATION DRAIN WITHOUT A DRAINAGE STRUCTURE.**

**36**

**3-E**

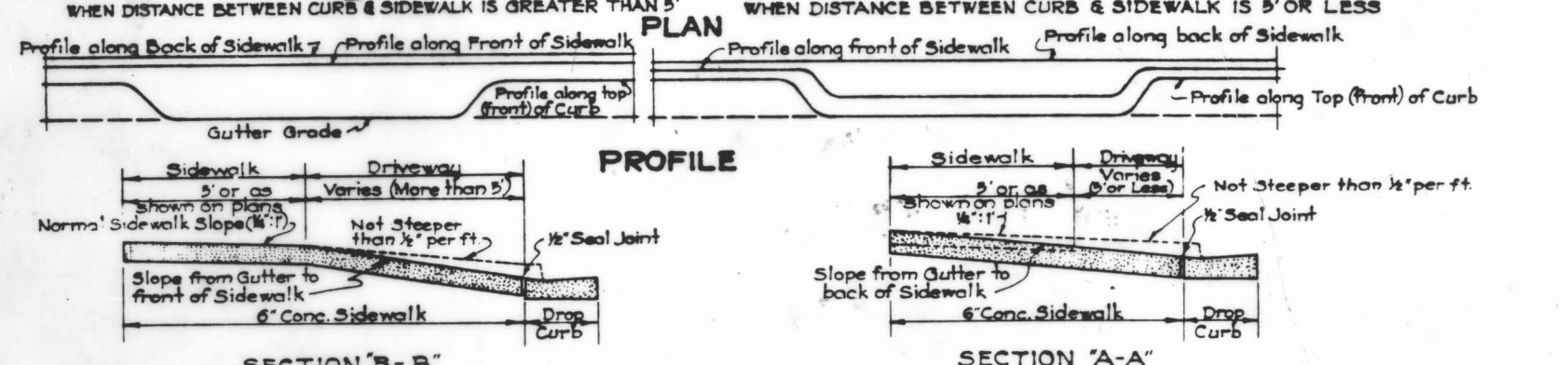
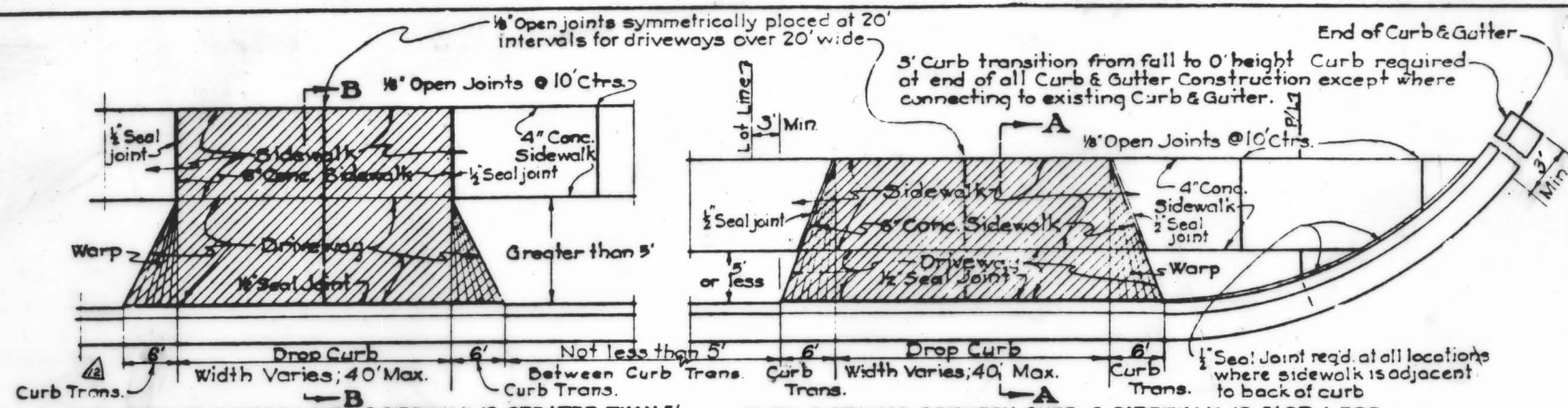
**DETAIL OF EXFILTRATION DRAIN WITH PERFORATED PIPE**

REV. 11/89	G.M. DRAWN BY	J.D.L. CHECKED BY	1-79 DATE
------------	------------------	----------------------	--------------



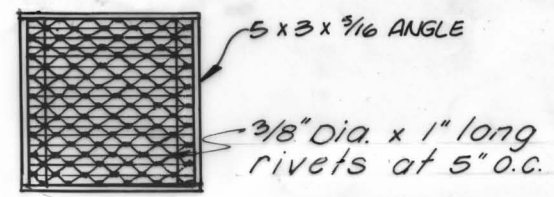
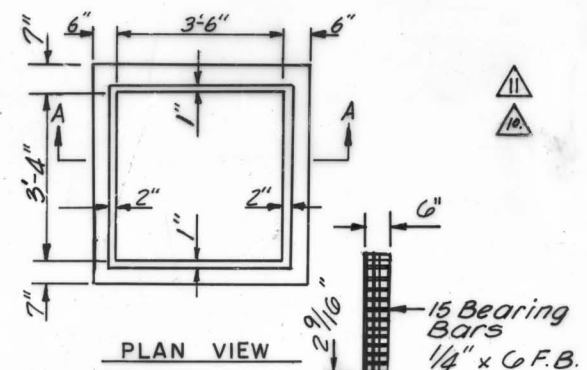




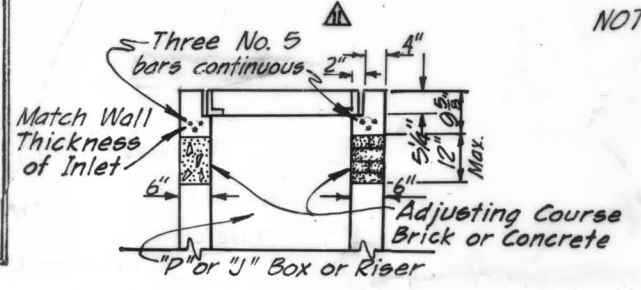


**DETAIL OF SIDEWALK AND PAVED DRIVEWAY CONSTRUCTION**

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 of a particular location. All new or reconstructed driveways must conform to the size limits as indicated above.

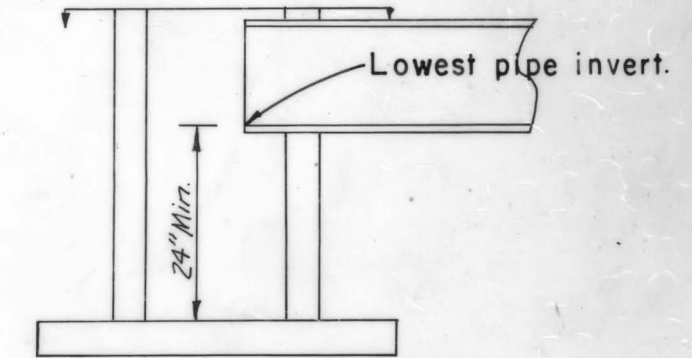
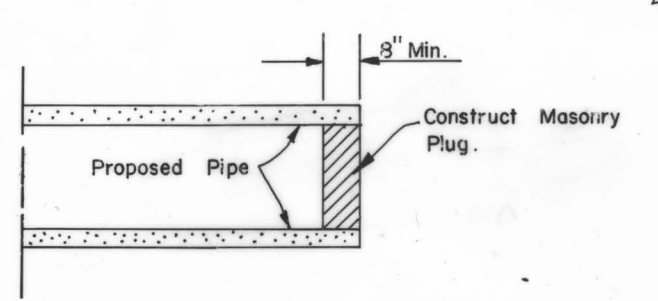
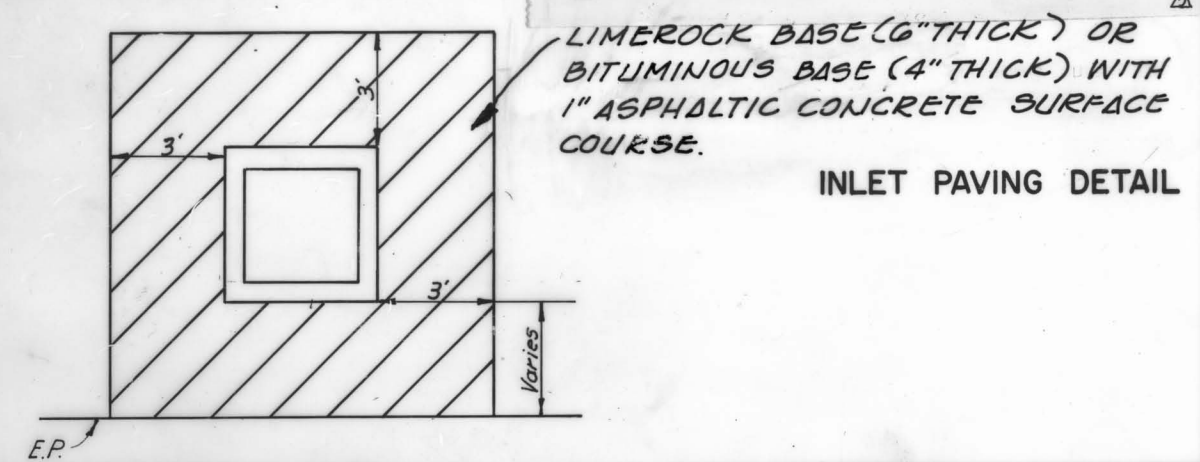


STEEL GRATING DETAIL  
Grate steel USF No. 6646 41 1/4" x 45 1/4"  
(Or Equal)

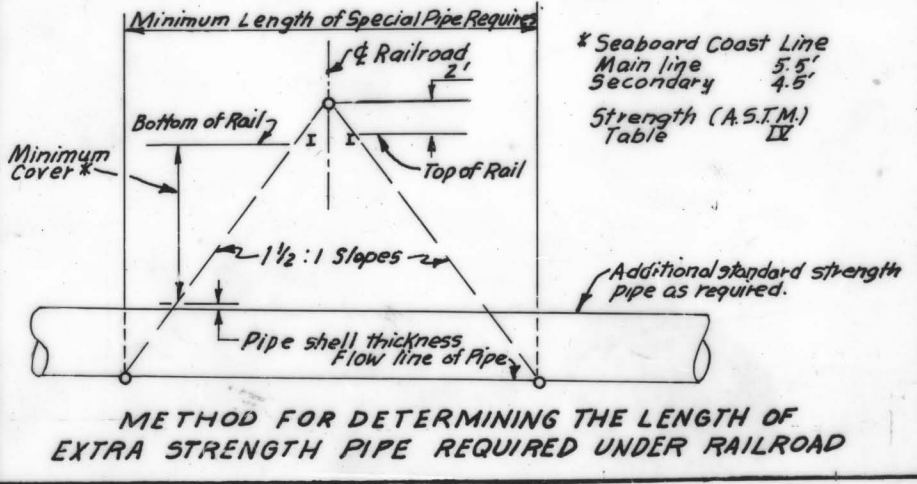
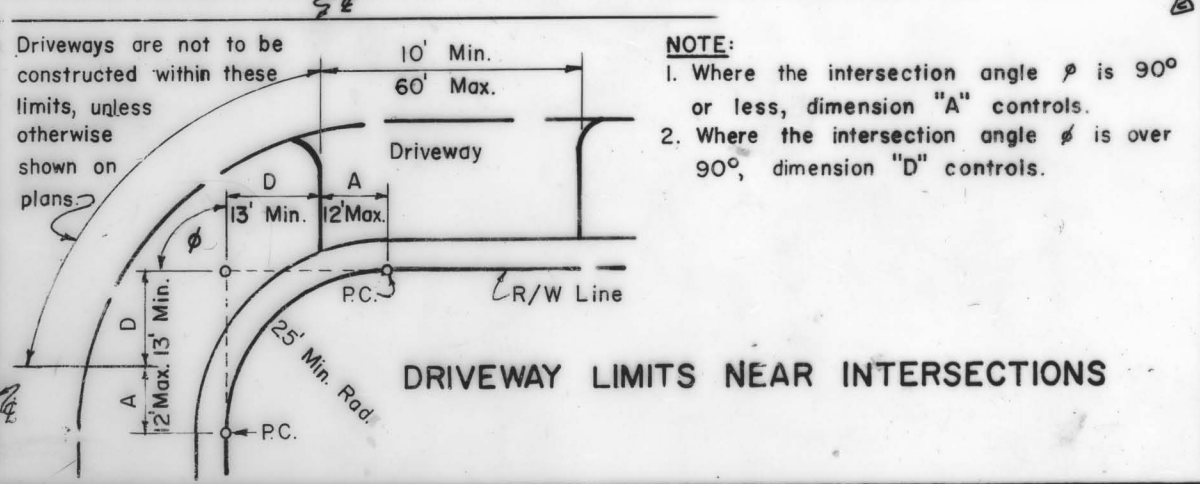


NOTE: 1. This inlet top to be used in conjunction with Index No. P & J Type Inlet Boxes  
2. The Contractor may use a precast top collar and an adjusting course (12" max.) concrete or brick masonry. If brick is used, stucco inside and outside surface. (1/2" plaster)

**INLET TOP TYPE 10**



**FOR DRAINAGE STRUCTURES**



REVISION	DATE	DESCRIPTION	BY	DATE	PROJ.	SHEET OF
1	12/73	Add 6' Curb Transition	R.M.			
2	9-15	Dimensions of Grating and Box	JWB			
3	5-71	Dimensions of Grating	R.S.D.			
4	11-68	2' Sump Detail	C.G.			
5	10-68	Special Pipe Detail	A.R.			
6	10-68	Added Pipe Plug	C.G.			
7	9-68	Added Inlet Top Type #10	C.G.			
8	9-68	Added Inlet Paving Detail	C.G.			
9	8-68	Remove A & B	C.G.			
10	2-67	Adjust for Flexible Pavement	M.J.A.			
11	3-65	Added Driveway Limits Near Intersect	JAN			
12	10-64	Added Detail of 9" Curb and Gutter	R.C.			

DADE COUNTY PUBLIC WORKS DEPARTMENT  
HIGHWAY DIVISION

MISCELLANEOUS DETAILS

14-A

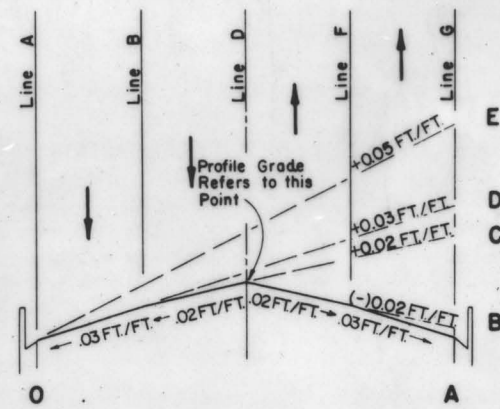
61

DATE 6-6-1961



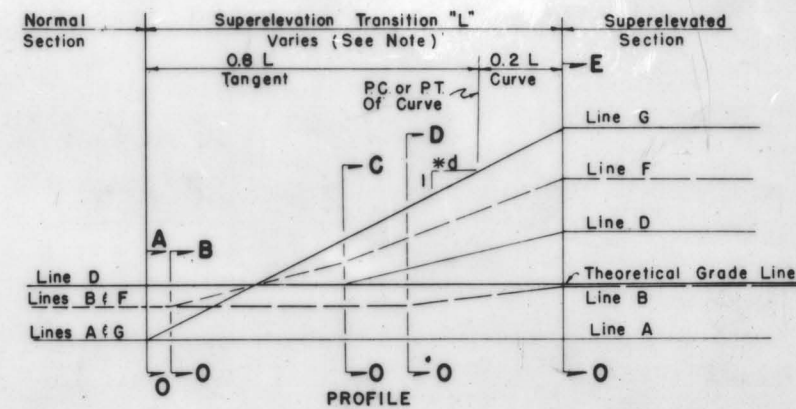




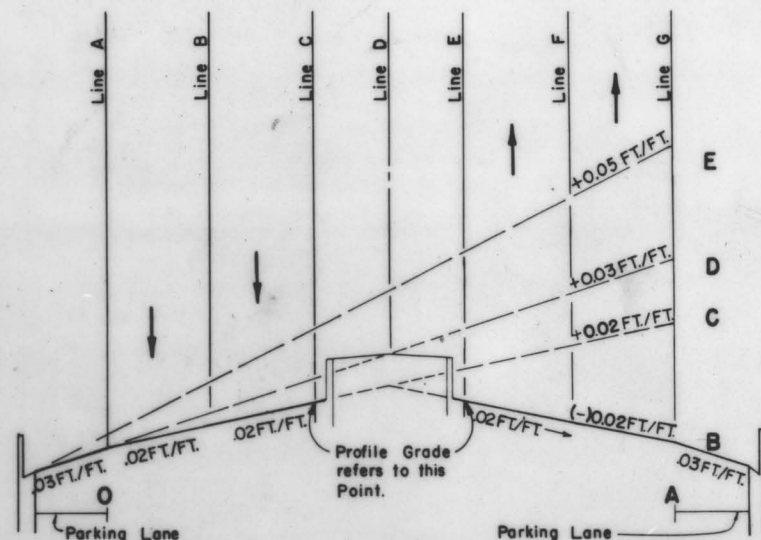


SECTION O-A TO O-E

DETAIL OF SUPERELEVATION TRANSITION FOR TWO TRAFFIC LANES EACH DIRECTION

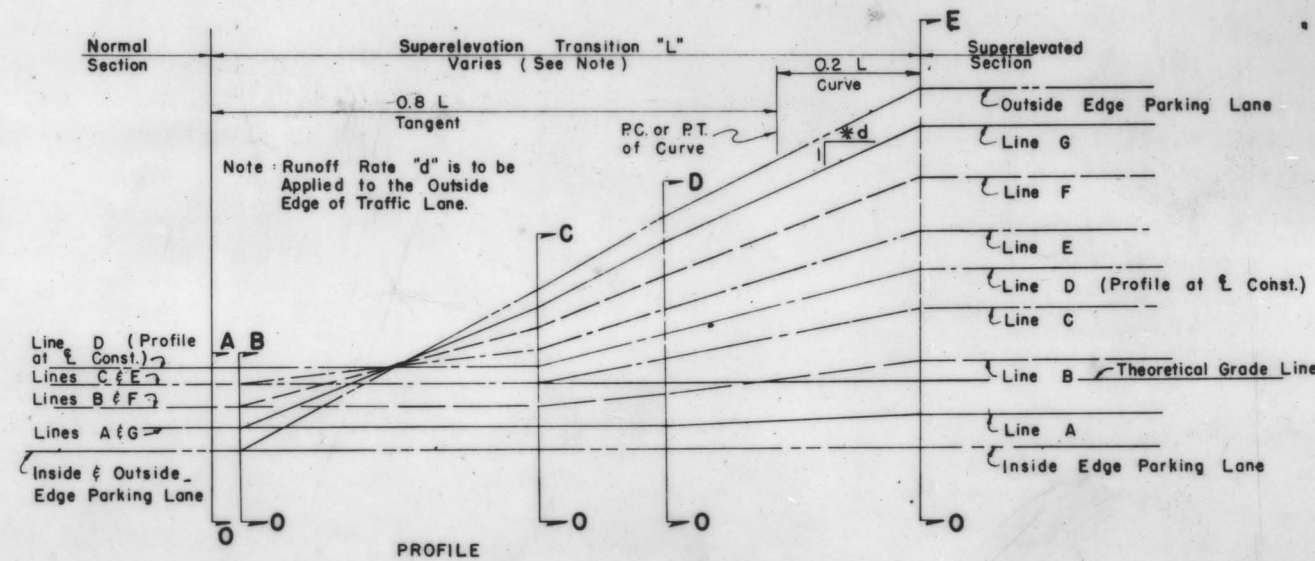


LINE	DESCRIPTION
A	INSIDE TRAFFIC LANE
B	INSIDE LANE LINE
C	INSIDE MEDIAN EDGE PAVEMENT
D	ℓ CONSTRUCTION
E	OUTSIDE MEDIAN EDGE PAVEMENT
F	OUTSIDE LANE LINE
G	OUTSIDE TRAFFIC LANE



SECTION O-A TO O-E

DETAIL OF SUPERELEVATION TRANSITION FOR TWO TRAFFIC LANES EACH DIRECTION WITH MEDIAN AND PARKING



*d (SLOPE RATIO)	
30 MPH	1 : 100
40 MPH	1 : 125
50 MPH	1 : 150

D	R	V=30mph V=40mph V=50mph		
		e	e	e
0° 15'	229 18'	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'	.025	.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		
16° 00'	358'	.045		
18° 00'	318'	.047		
20° 00'	286'	.050		

e Max.=0.05

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.

66

FHWA APPROVED: 5-20-77  
**FLORIDA DEPARTMENT OF TRANSPORTATION**  
 ROADWAY PLANS SECTION  
**SUPERELEVATION DETAILS FOR MUNICIPAL CONSTRUCTION**

REVISIONS	ROAD NO.	COUNTY	PROJECT NO.
1-75 Changed all fractions to decimals			
10-74 Changed Index N* LMF Up added part slope to current policy			
5-77 Added S.E. chart for e Max 0.05			

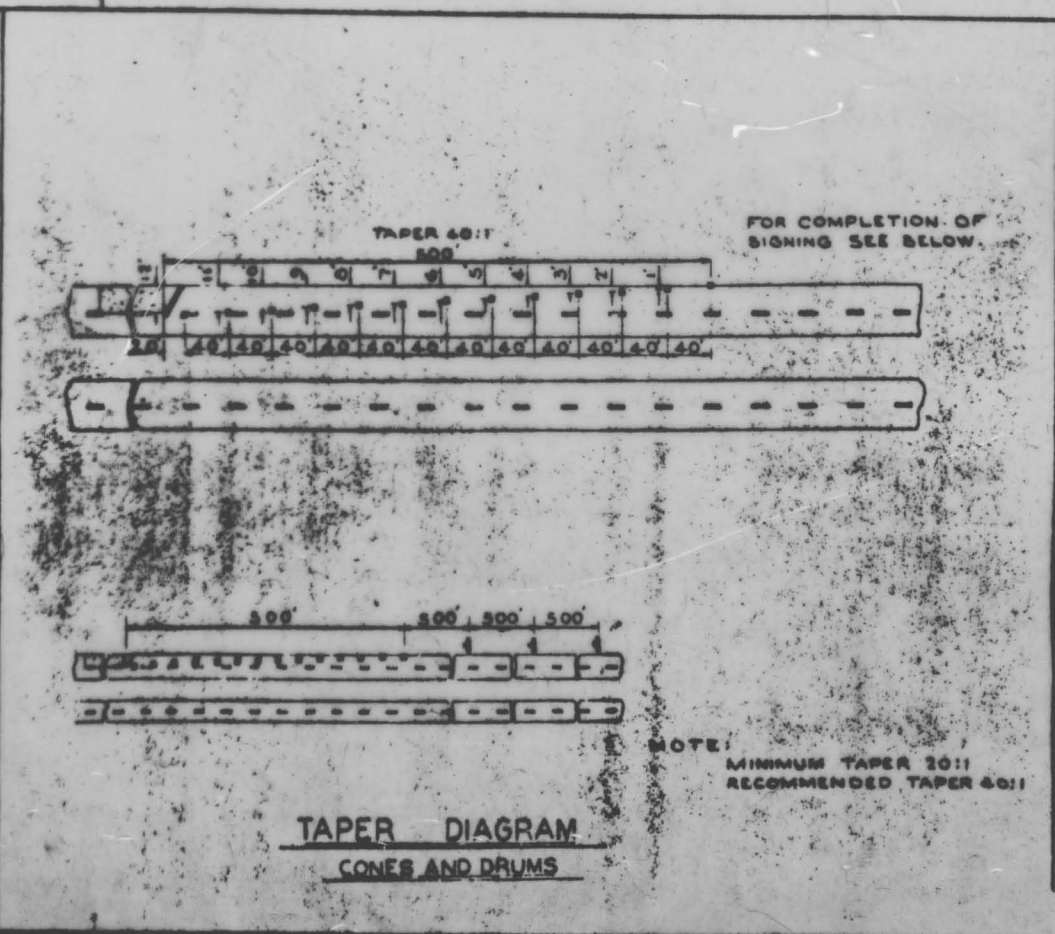
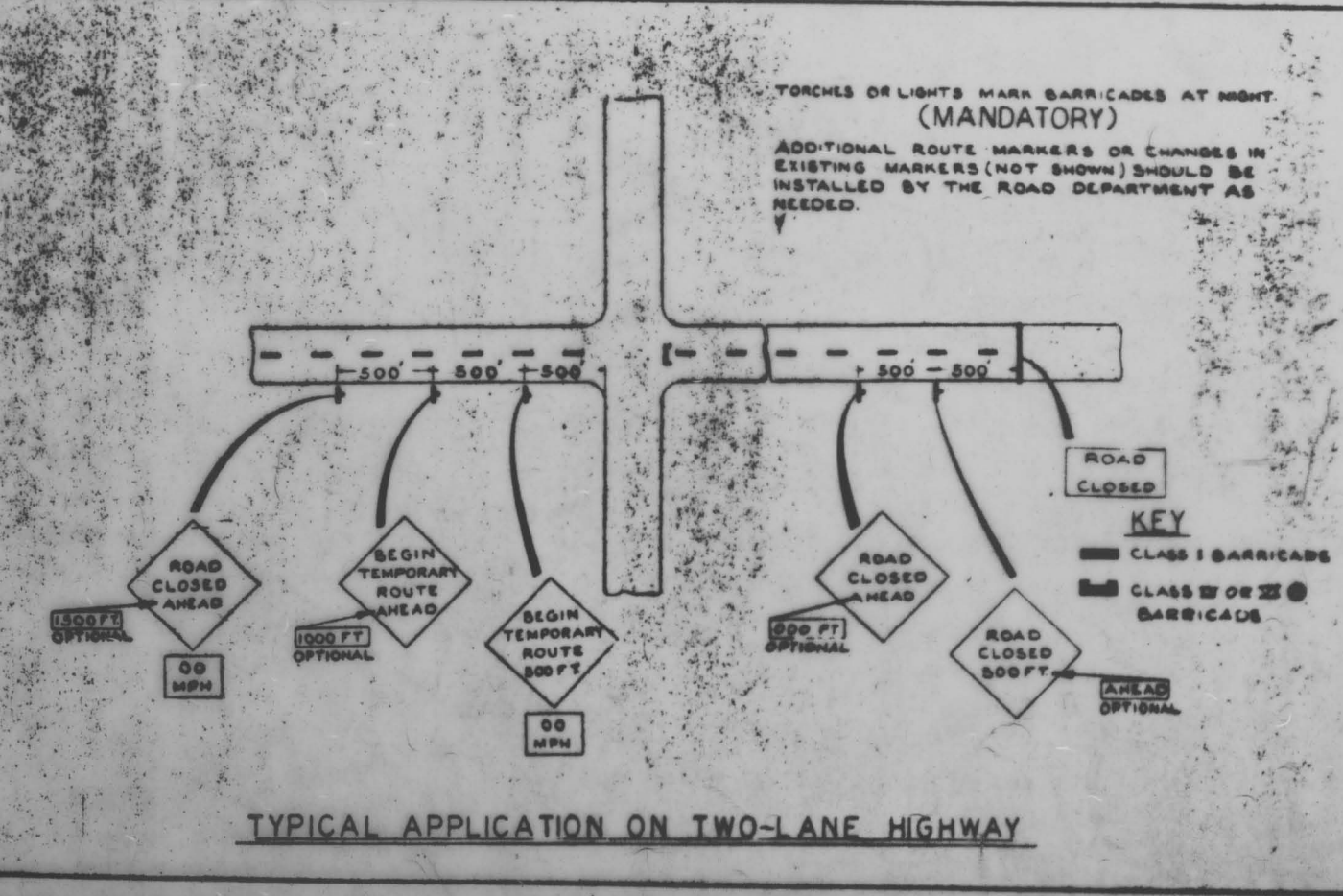
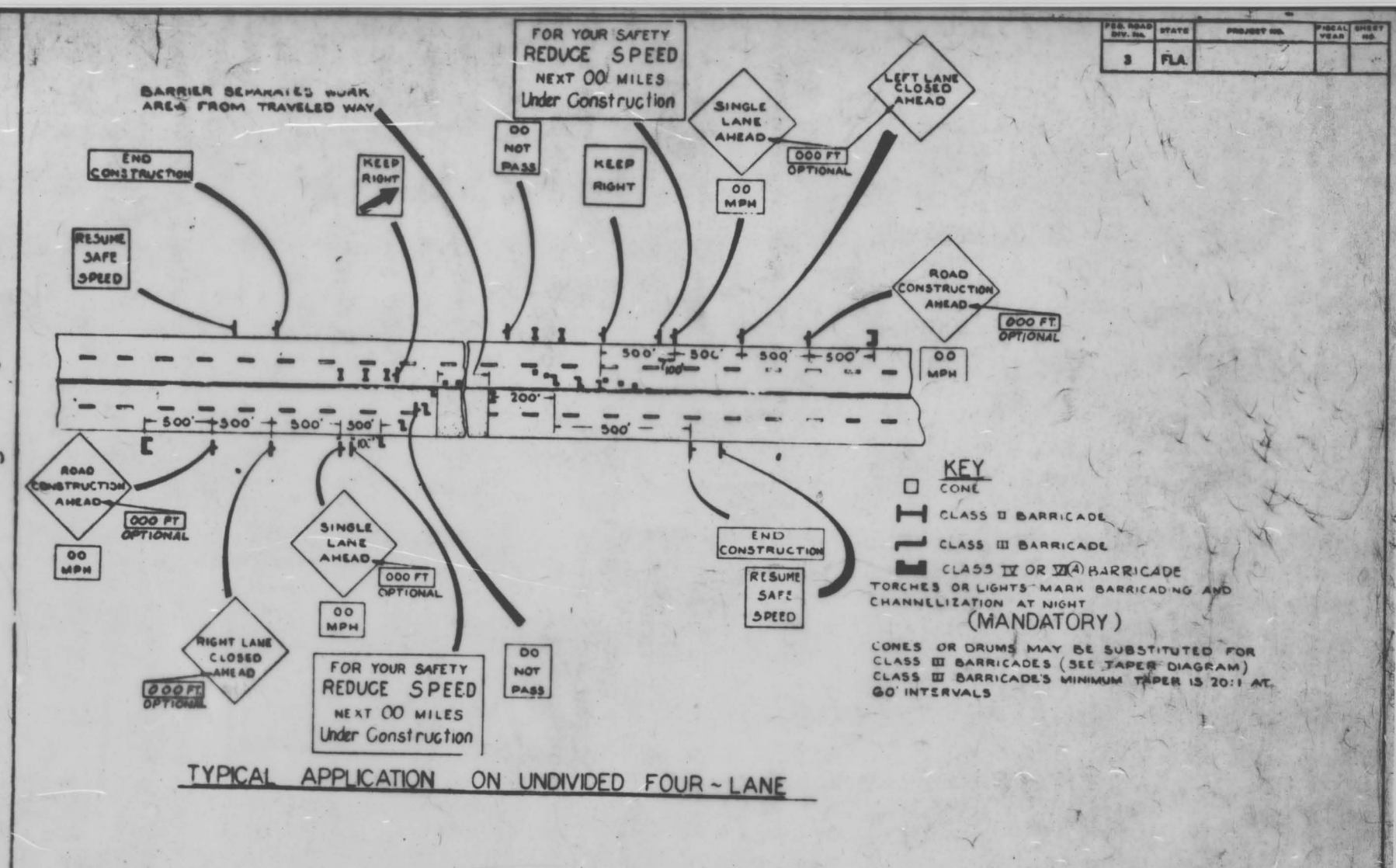
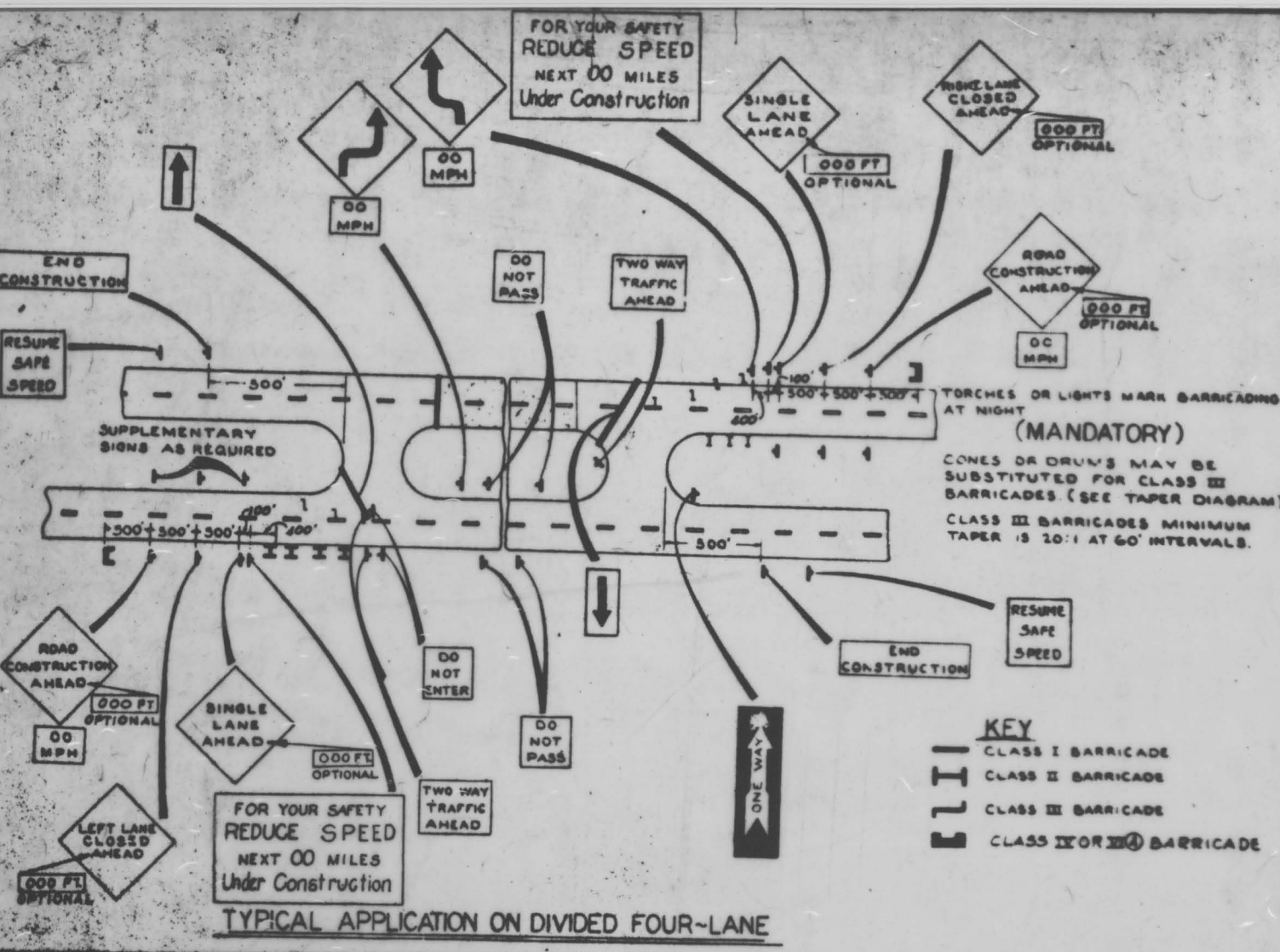
  

Checked by	W.L.B.	2-66	Recommended For Approval by
Checked by	R.L.O.	12-66	APPROVED BY
Checked by			APPROVED BY
Checked by			APPROVED BY
Traced by	C.D.P.	1-67	2 OF 2

INDEX No. GSE-02-1

The super-elevation 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.





- GENERAL NOTES**
- ANY SIGNING REQUIREMENTS NOT COVERED BY THIS INDEX WILL BE IN ACCORDANCE WITH THE "UNIFORM TRAFFIC CONTROL DEVICES MANUAL".
  - STATE ROAD DEPARTMENT TO FURNISH SIGNS AND MARKERS
  - OTHER TRAFFIC CONTROL SIGNS AS DETERMINED BY THE PROJECT ENGINEER AND THE CONTRACTOR'S SUPERINTENDENT SHALL BE FURNISHED BY THE STATE ROAD DEPARTMENT.
  - OTHER SPECIAL SIGNS MAY BE FURNISHED BY THE CONTRACTOR WITH THE APPROVAL OF THE STATE HIGHWAY ENGINEER.
  - SIGNS SHOWN INDICATE LOCATIONS AND TYPES OF SIGN ONLY.
  - EXACT MESSAGE, ARROW DIRECTIONS AND SUPPLEMENTARY SIGNS TO BE DETERMINED BY THE ENGINEER.
  - SPEED SIGNS TO INDICATE 20 OR 30 MPH AS DIRECTED BY THE ENGINEER.
  - DRIVE WITH CAUTION SIGNS TO BE PLACED AT INTERVALS THROUGH CONSTRUCTION AREA AS DIRECTED BY THE ENGINEER.
  - THE CLASS II AND CLASS III BARRICADES ARE INTERCHANGEABLE UNLESS ONE TYPE OR THE OTHER IS SPECIFICALLY CALLED FOR ELSEWHERE IN THE PLANS.
  - THE STRIPES ON THE BARRICADES SHALL POINT DOWNWARDS TOWARDS THE DIRECTION OF FLOW OF TRAFFIC AROUND THE BARRICADE, ON THE SIDE FACING APPROACHING TRAFFIC.

**STANDARD WARNING SIGN DETAILS**

REVISION	DESCRIPTION	DATE	BY	APPROVED BY
5-65	ADDITIONAL SIGNS & NOTES ADDED SHEET 1 & 2			
12-65	REVISED SIGN			
1-66	NOTES 7 & 8			
6-66	MAX. BELM ADDED			

APPROVED BY: [Signature]

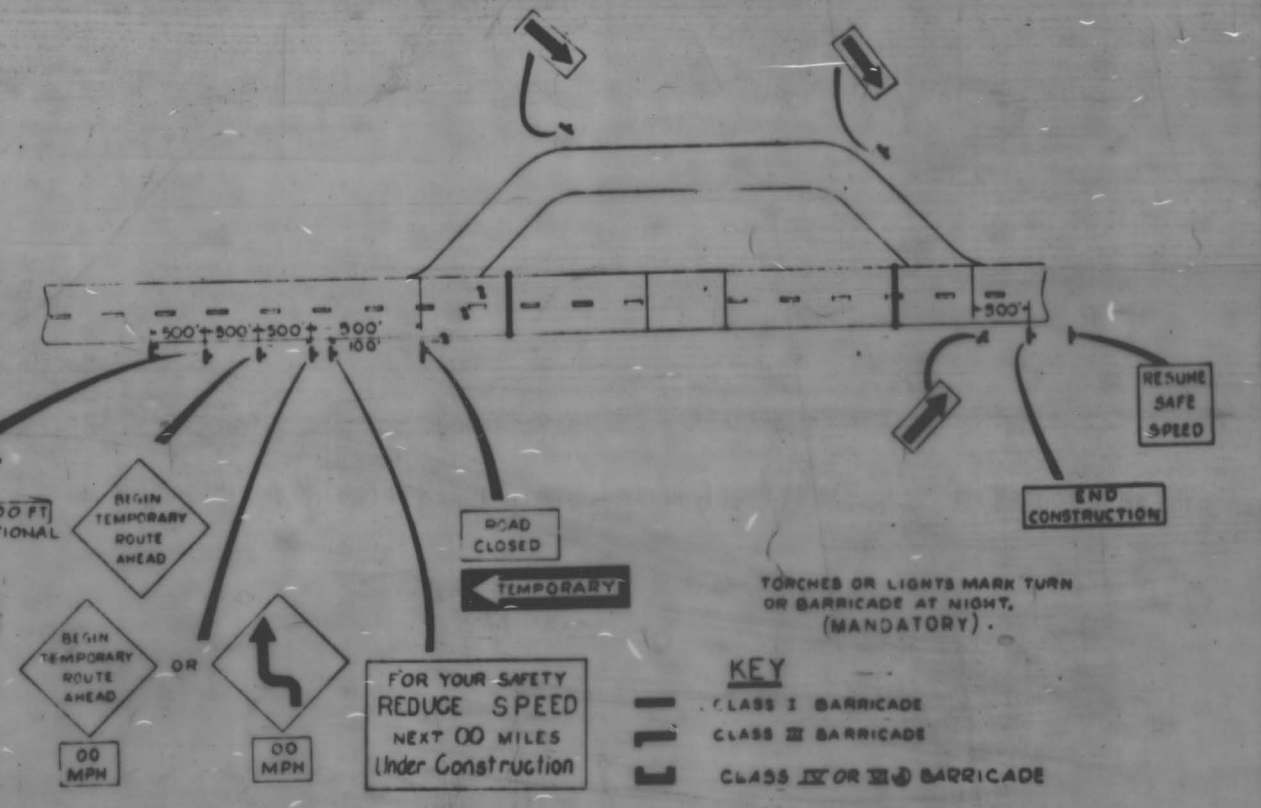
DATE: 3-65

1 of 2

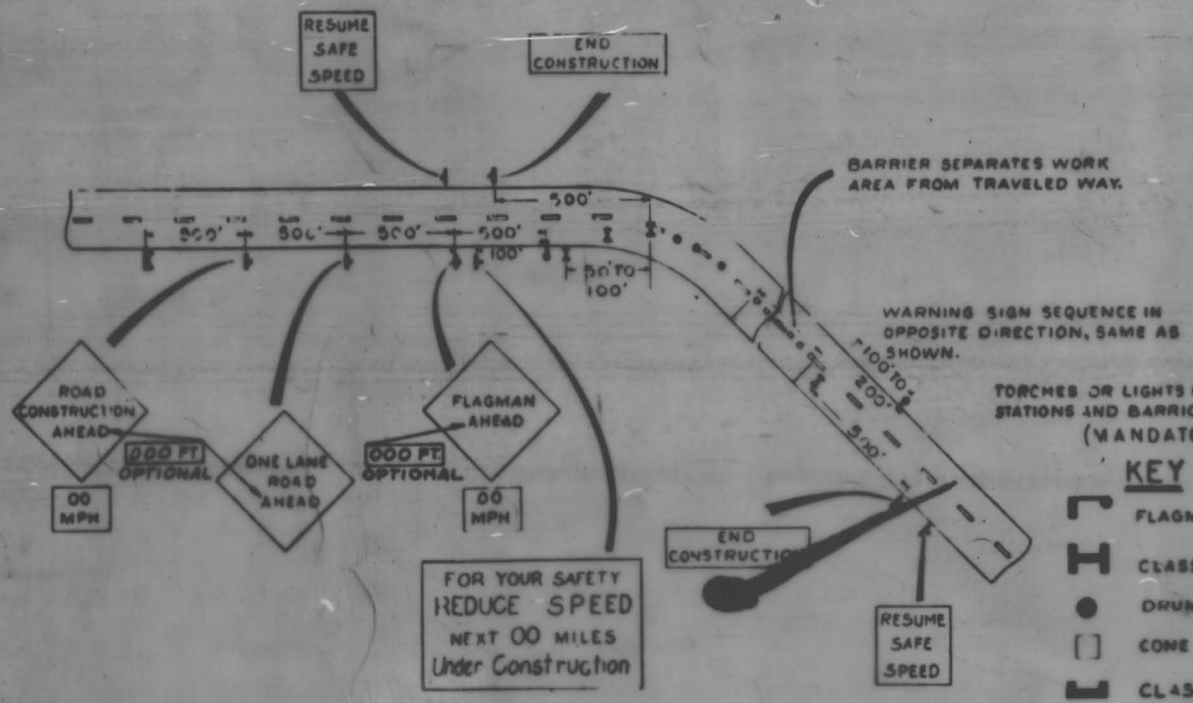
2613-M



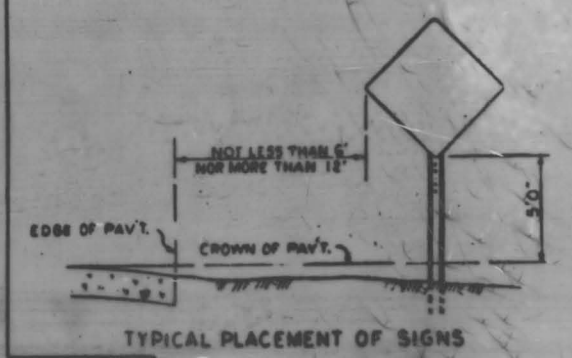
WARNING SIGN SEQUENCE IN OPPOSITE DIRECTION, SAME AS BELOW.  
 DELINEATORS ON BYPASS WHERE NEEDED.



TYPICAL APPLICATION ON TWO-LANE HIGHWAY



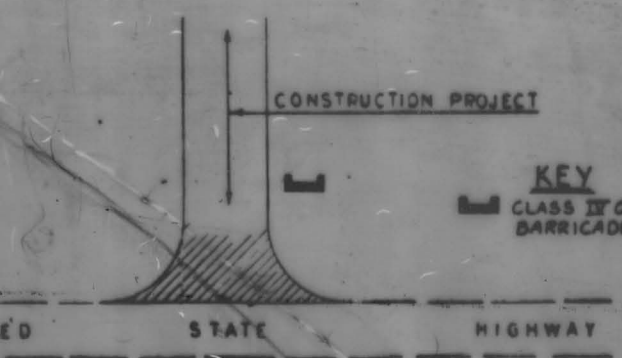
TYPICAL APPLICATION ON TWO LANE HIGHWAY



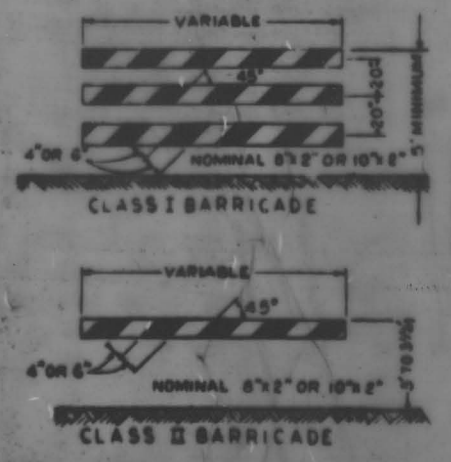
TORCHES OR LIGHTS MARK FLAGMAN STATIONS AND BARRICADING AT NIGHT. (MANDATORY)

**KEY**

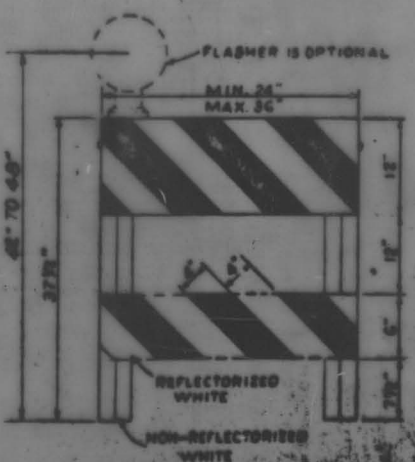
- FLAGMAN
- CLASS II
- DRUM
- CONE
- CLASS IV OR IVA BARRICADE



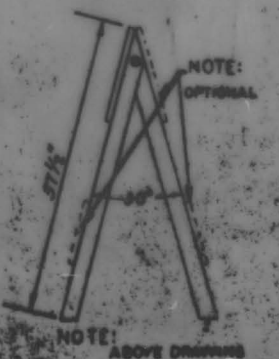
AT THE JUNCTION OF A CONSTRUCTION PROJECT AND A PAVED STATE HIGHWAY, APPROPRIATE SIGNS AND MARKERS SHALL BE PLACED ALONG THE STATE HIGHWAY ONLY DURING THE TIMES WHEN CONSTRUCTION IS IMMEDIATELY ADJACENT TO, OR WHEN CONSTRUCTION EQUIPMENT IS BEING OPERATED ON THE STATE HIGHWAY.



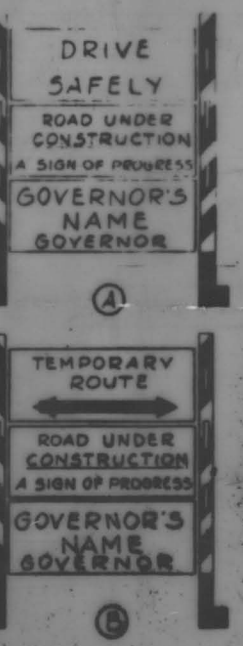
CLASS I AND II



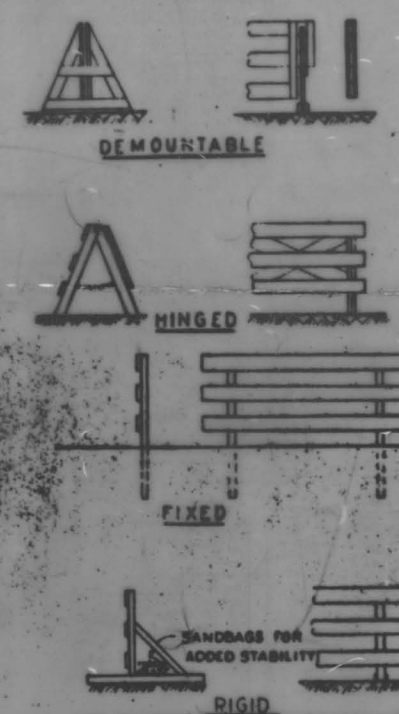
CLASS III



CLASS IV



CLASS VI



CLASS II AND III INTERCHANGEABLE UNLESS OTHERWISE NOTED

NOTE: THE NON-REFLECTORIZED CLASS I & II BARRICADE IS OPTIONAL. THE BOTTOM PANEL ON CLASS II & IIIA BARRICADE IS OPTIONAL.

BARRICADE DETAILS

NOTES: SIGNS FOR CLASS V & VI TO BE FURNISHED BY ROAD DEPARTMENT. CLASS III & IV BARRICADES USED ON STATE JOBS.

STATE ROAD DEPARTMENT OF FLORIDA  
 ROADWAY PLANS DEPARTMENT 81

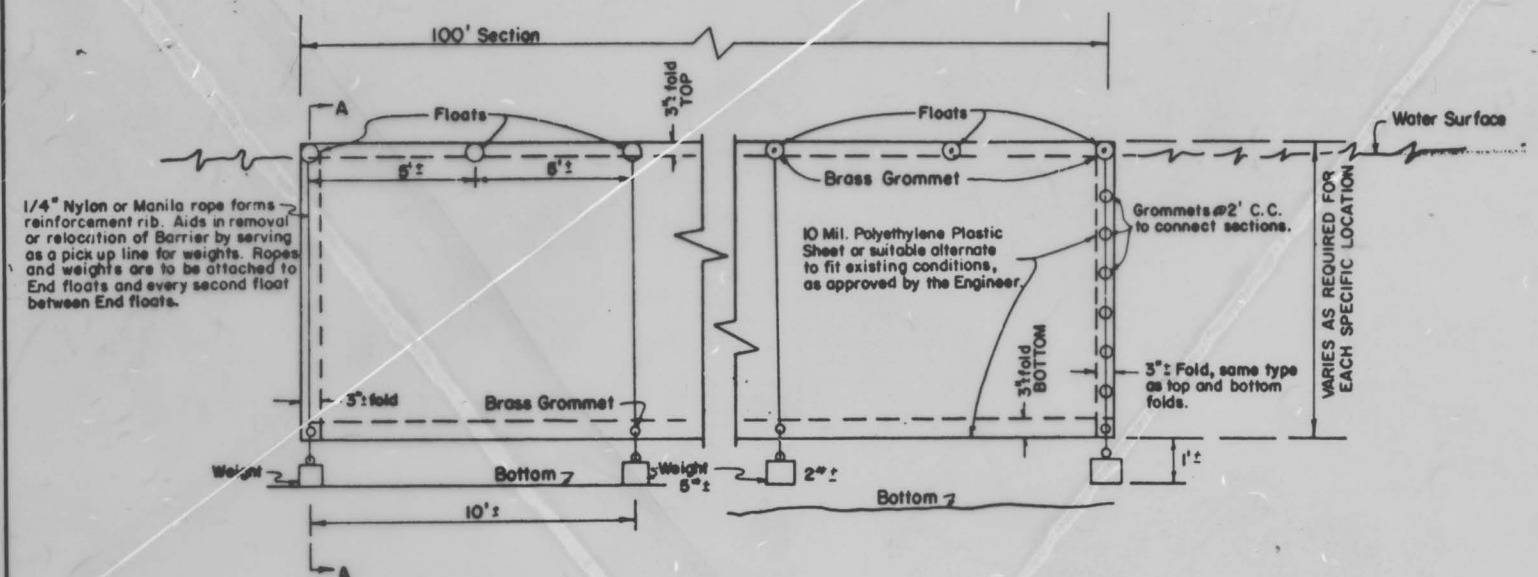
**STANDARD WARNING SIGN DETAILS**

ITEM NO.	QUANTITY	PROJECT NO.
4-57 ADDED CLASS II BARRICADE		
2-67 4-LANE DIVIDED R.M.C. SIGN SPACING		
3-68 CHANGED 7500 TO 75000000		

APPROVED BY: *[Signature]*

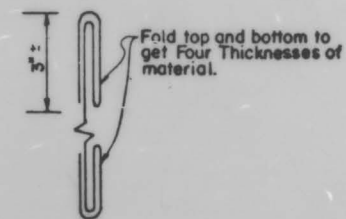
DATE: 2 of 2 2613-M

15-11-6



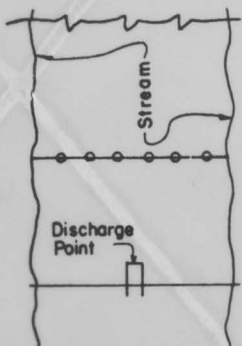
1/4" Nylon or Manila rope forms reinforcement rib. Aids in removal or relocation of Barrier by serving as a pick up line for weights. Ropes and weights are to be attached to End floats and every second float between End floats.

FRONT VIEW

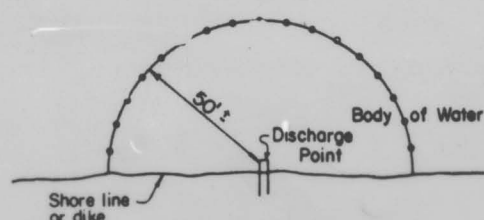


SIDE VIEW

FOLDING DETAIL



TYPICAL APPLICATION



TYPICAL APPLICATION

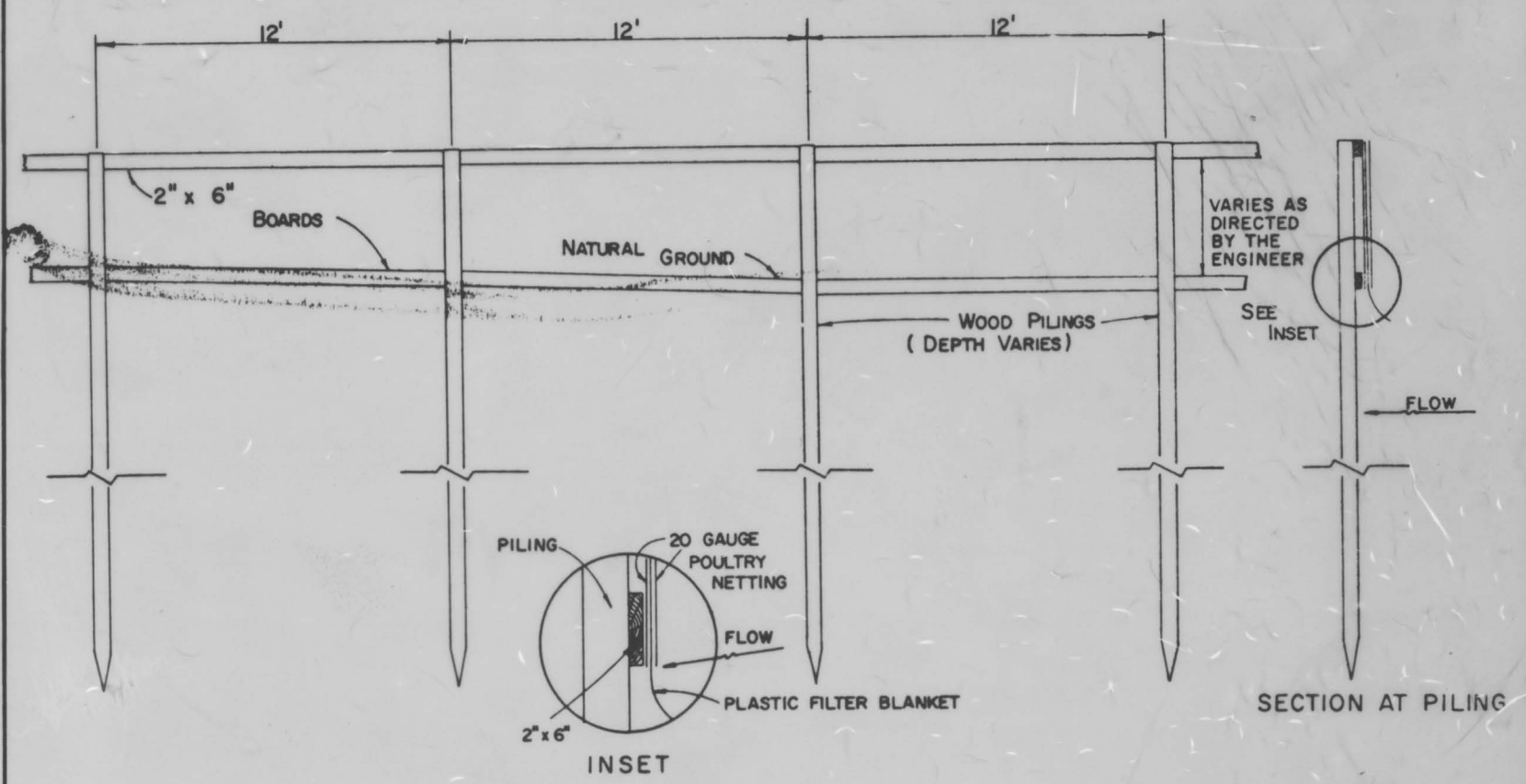
GENERAL NOTES

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.

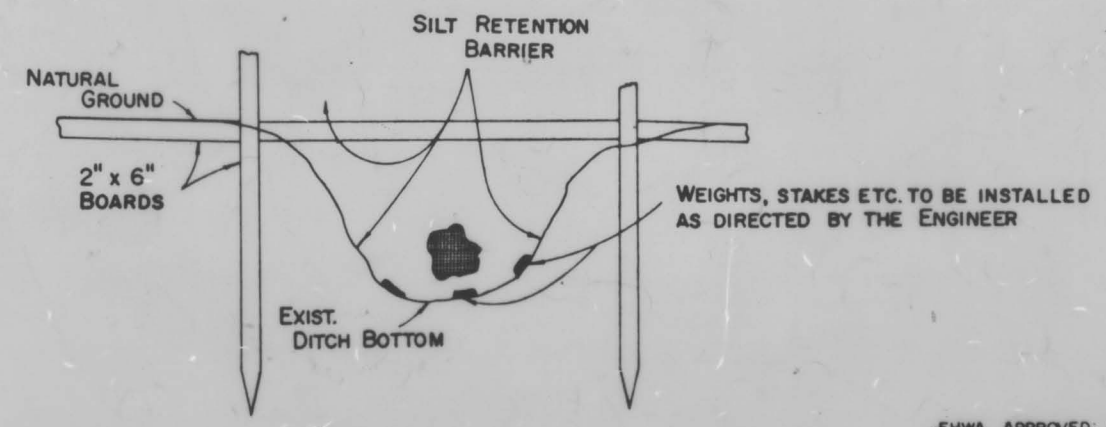
DETAIL OF FLOATING SILT BARRIER



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

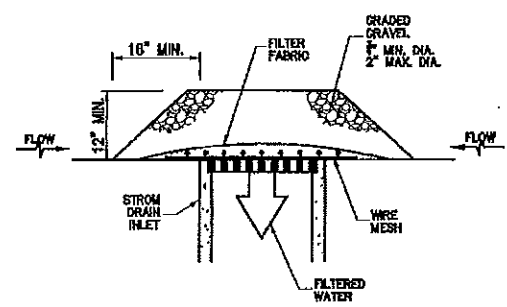
FHWA APPROVED: 3-13-75

FLORIDA DEPARTMENT OF TRANSPORTATION Road Design Section			
ERROSION CONTROL DEVICES SILT BARRIERS			
REVISIONS	INITIALS	DATES	Recommended for approval
by	WJR	5/74	by <i>E.A. Hoot</i> Deputy Design Engineer - Roadways
Checked by	HLB	6/74	Approved
Quantities by			by <i>[Signature]</i>
Checked by			State Design Engineer
Supervised by	DCB		DRAWING NO. INDEX NO.
			1 OF 1 GEC-04

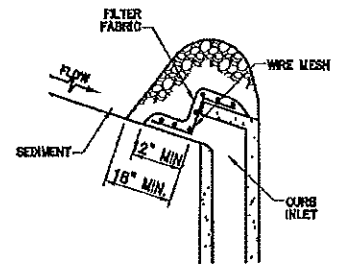
NOTE: At shallow water locations the plastic sheet or suitable alternate may be fastened to stakes driven into the bottom in lieu of floats and weights.

STANDARD NYLON 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:

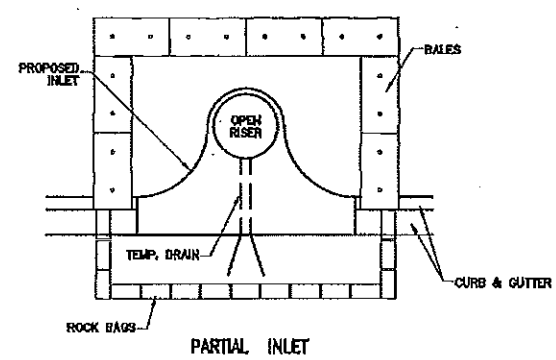
- PLACE WIRE MESH (WITH 1/2 INCH OPENINGS) OVER THE INLET GRATE EXTENDING ONE FOOT PAST THE GRATE IN ALL DIRECTIONS.
- PLACE FILTER FABRIC OVER THE MESH. FILTER FABRIC SHOULD BE SELECTED BASED ON SOIL TYPE.
- PLACE GRADED GRAVEL, TO A MINIMUM DEPTH OF 12 INCHES, OVER THE FILTER FABRIC AND EXTENDING 16 INCHES PAST THE GRATE IN ALL DIRECTIONS.

2- MAINTENANCE:

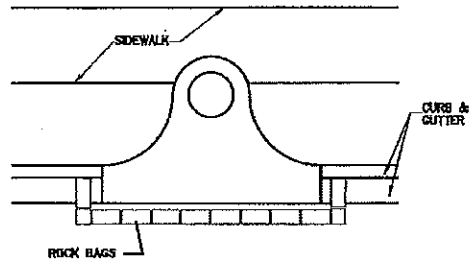
- INSPECT INLET PROTECTION AFTER EVERY LARGE STORM EVENT AND AT A MINIMUM OF ONCE MONTHLY.
- REMOVE SEDIMENT ACCUMULATED WHEN IT REACHES 4 INCHES IN DEPTH.
- REPLACE FILTER FABRIC AND CLEAN OR REPLACE GRAVEL IF CLOGGING IS APPARENT.

3- LIMITATIONS:

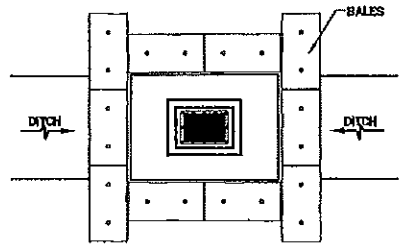
- RECOMMENDED FOR MAXIMUM DRAINAGE AREA OF ONE ACRE.
- EXCESS FLOWS MAY BYPASS THE INLET REQUIRING DOWN GRADIENT CONTROLS.
- PONDING WILL OCCUR AT INLET.



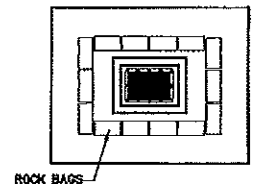
PARTIAL INLET



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 1/2\"/>

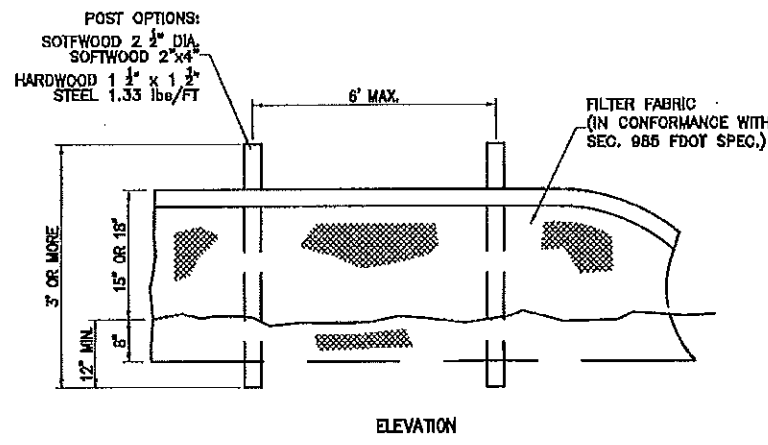
INLET PROTECTION SYSTEM (TYP.)  
OR APPROVED ALTERNATIVE

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

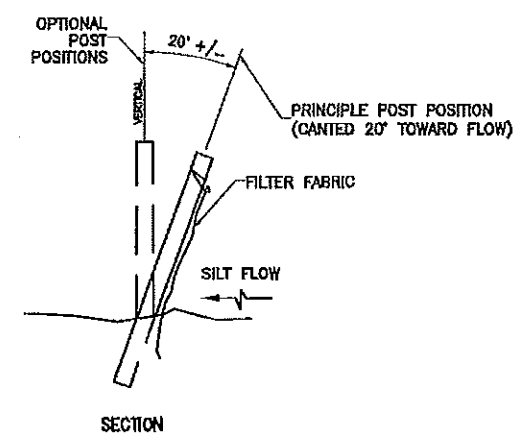
DESIGNED BY	NAME	DATE	CHECKED BY	NAME	DATE

MIAMI-DADE COUNTY  
PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT  
HIGHWAY DIVISION  
STEVEN P. BLANK, ENGINEER  
FL REG. NO. 12128  
MIAMI, FLORIDA 33128

INLET PROTECTION SYSTEMS  
DETAILS

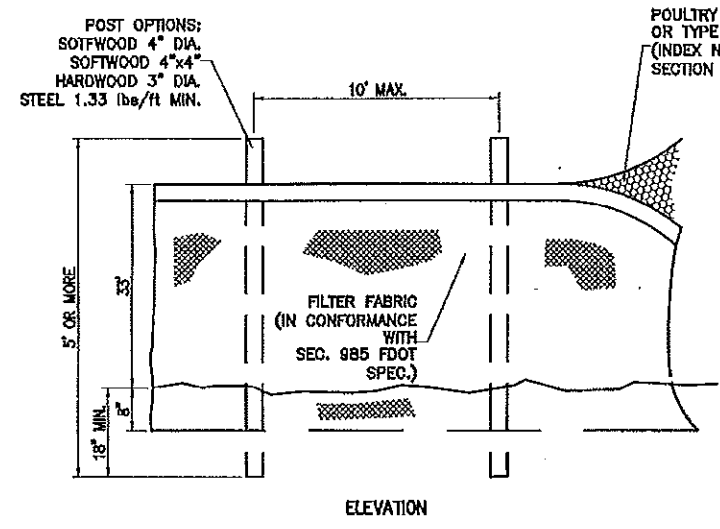


ELEVATION

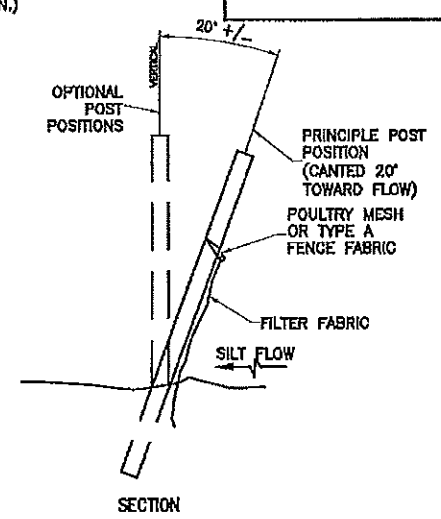


SECTION

TYPE III SILT FENCE (TYP.)

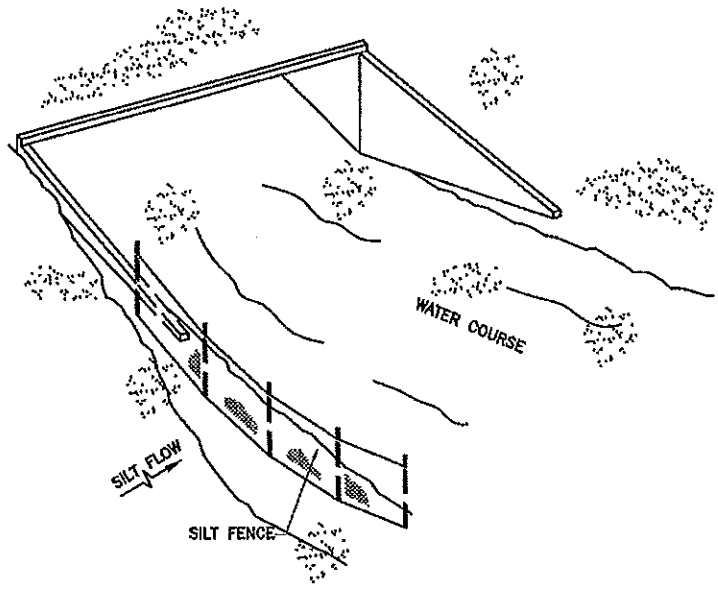


ELEVATION

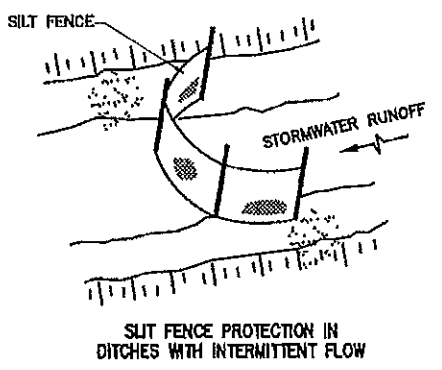


SECTION

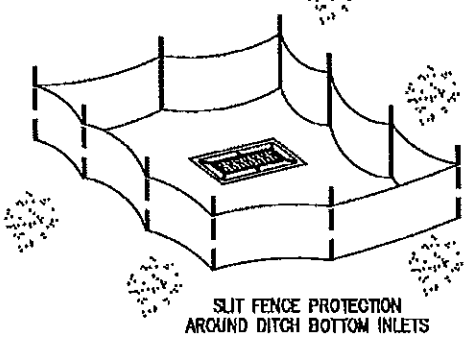
TYPE IV SILT FENCE (TYP.)



WATER COURSE



SILT FENCE PROTECTION IN DITCHES WITH INTERMITTENT FLOW

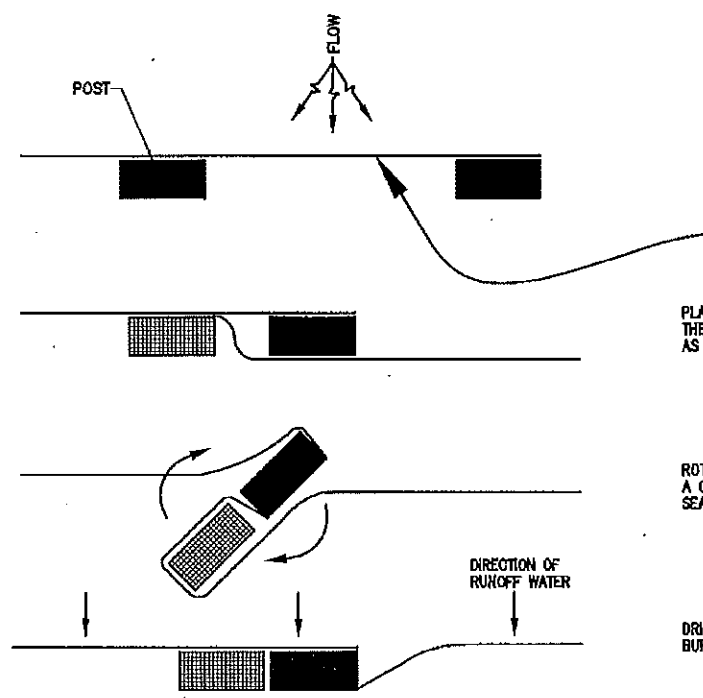


SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS

SILT FENCE APPLICATIONS (TYP.)

NOTES FOR SILT FENCES:

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



PLACE THE END POST OF ONE FENCE BEHIND THE END POST OF THE OTHER FENCE AS SHOWN.

ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL.

DRIVE BOTH POSTS INTO THE GROUND AND BURY FLAP

PLANT VIEW  
JOINING TWO SILT FENCES (TYP.)

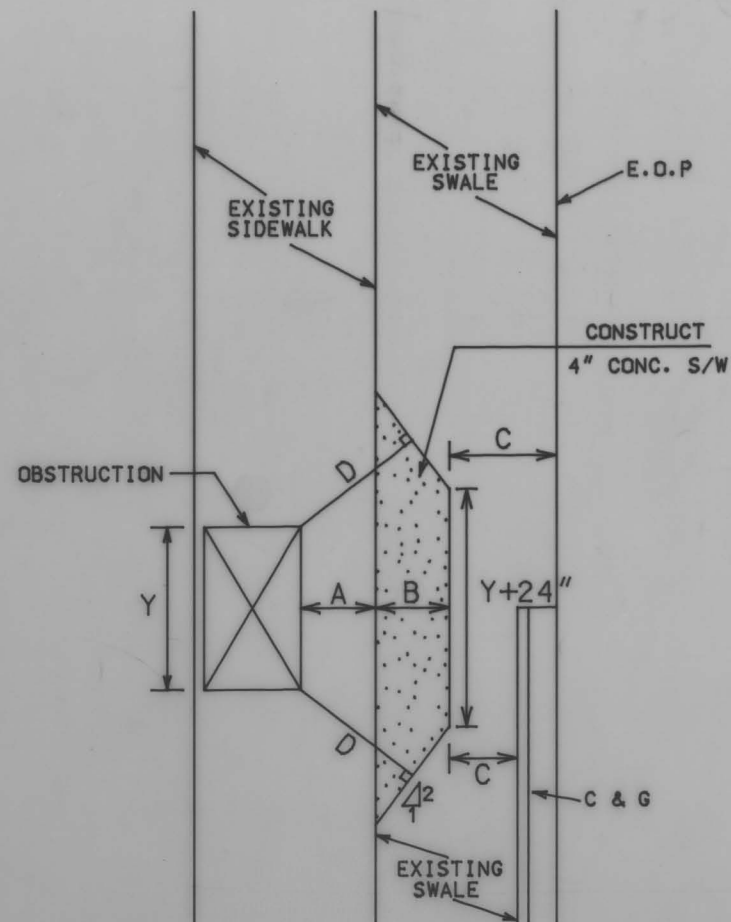
- 3- DO NOT CONSTRUCT SILT FENCES ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.
- 4- WHERE USED AS SLOPE PROTECTION, SILT FENCE IS TO BE CONSTRUCTED ON 0% LONGITUDINAL GRADE TO AVOID CHANNELIZING RUNOFF ALONG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

SEDIMENT BARRIERS (TYP.)  
OR APPROVED ALTERNATIVE

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

DESIGNED BY	NAME	DATE	CHECKED BY	NAME	DATE

MIAMI-DADE COUNTY  
PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT  
HIGHWAY DIVISION  
STEPHEN P. CLARK, COUNTY ENGINEER  
100 N.W. 25th ST.  
MIAMI, FLORIDA 33125



## SIDEWALK WIDENING DETAIL

CRITERIA TO BE USED TO AVOID RELOCATING  
EXISTING OBSTRUCTIONS WHERE  
SWALE AREA IS AVAILABLE:

$Y \leq 24''$  AND  $A < 32''$  OR  $Y > 24''$  AND  $A < 36''$

THEN:  $A+B = 36''$  MIN.

$B = 24''$  MIN.

FOR C&G SECTIONS, IF  $C \leq 24''$  THEN "B" SHALL EXTEND TO BACK OF CURB.

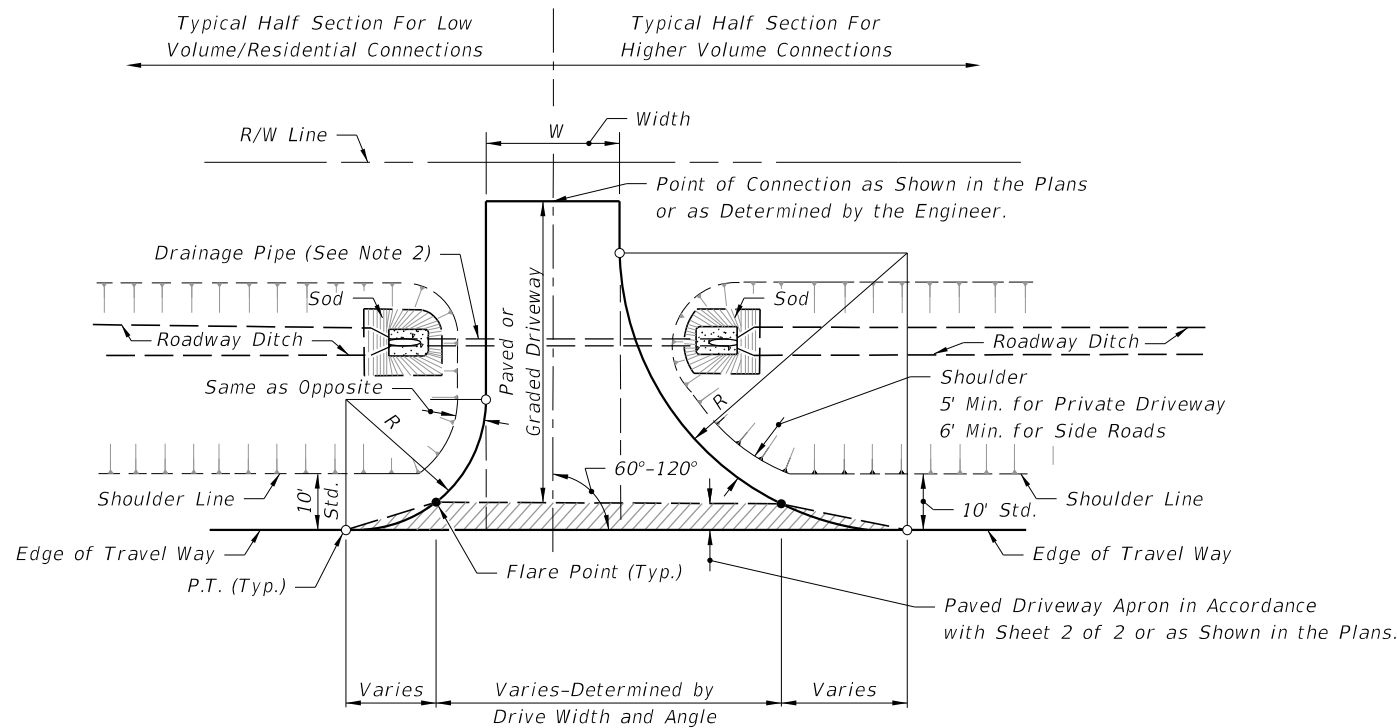
$C \geq 4'$  FOR SECTIONS WITHOUT CURB & GUTTER

$D = 36''$  MIN.

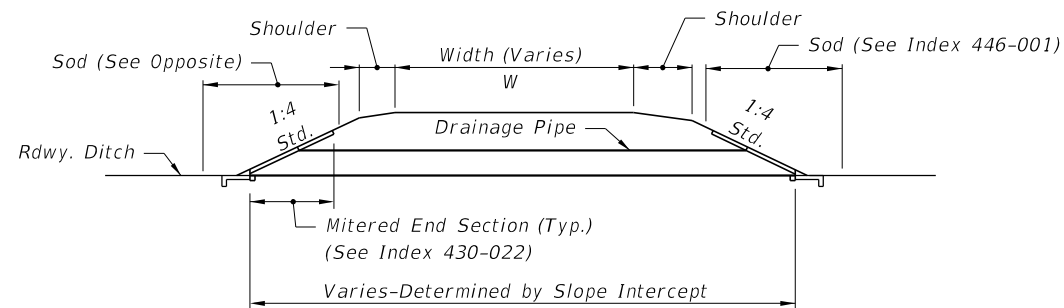
93

DADE COUNTY PUBLIC WORKS DEPT. HIGHWAY DIVISION		
SIDEWALK WIDENING DETAIL		
DESIGN	<b>I-PR-A</b>	
DRAWN		
CHECK		
PROPOSED		
DATE		
SUBMITTED	RECOMMENDED	APPROVED
HIGHWAY ENGINEER	CHIEF ENGINEER	DIRECTOR
DATE	PROJ.	SHEET 1 OF 1

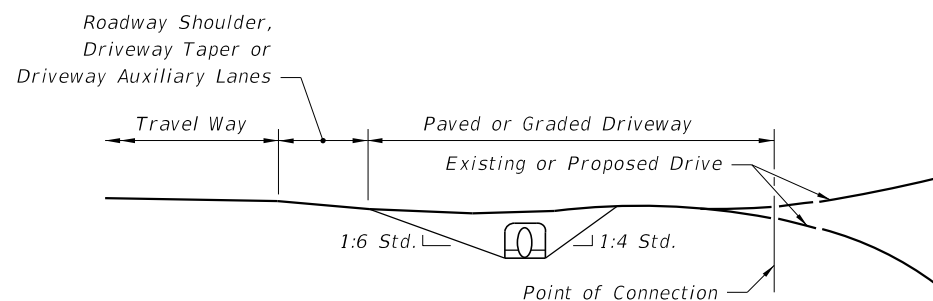




PLAN

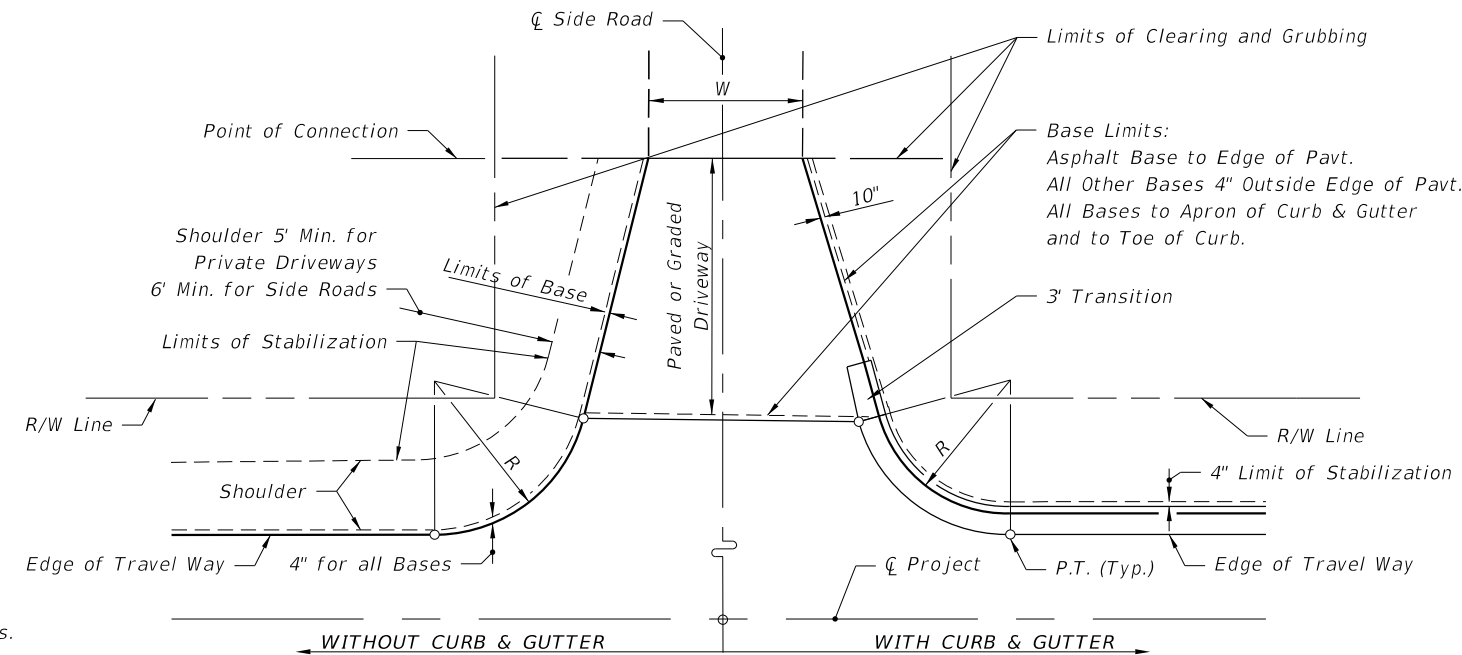


DRAINAGE SECTION



DRIVEWAY PROFILE AND END VIEW

FLUSH SHOULDER ROADWAY - DRIVEWAY CONSTRUCTION



PLAN

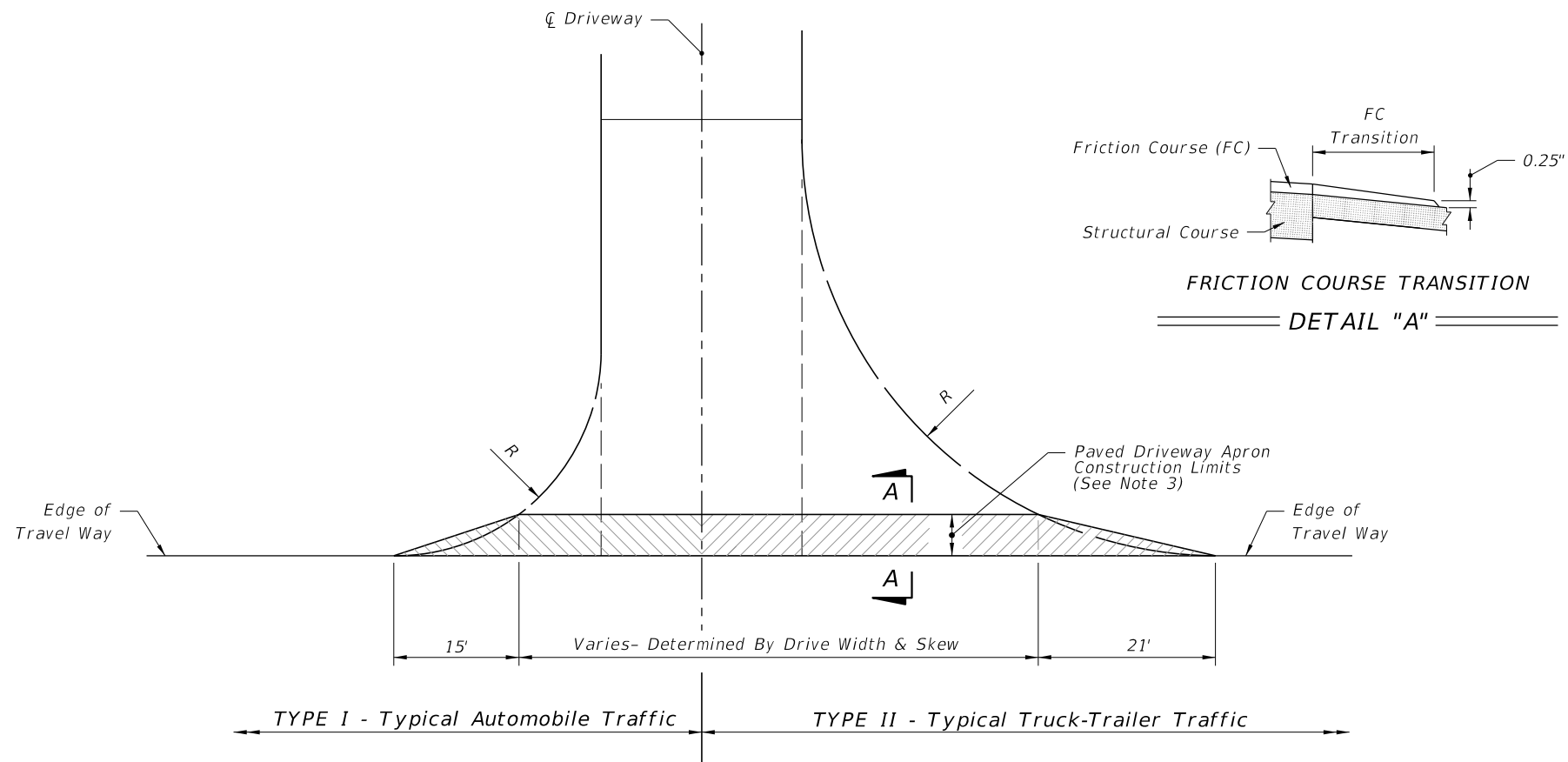
LIMITS OF CLEARING & GRUBBING, STABILIZING AND BASE AT DRIVEWAYS

DRIVEWAY ENTRANCES NOTES:

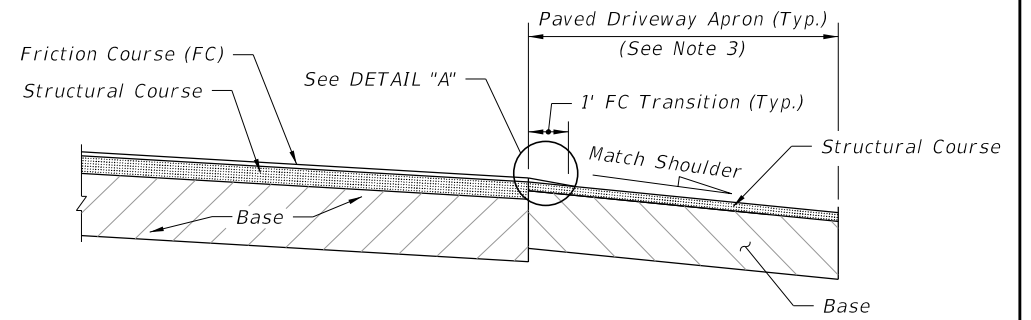
1. See Plans for Driveway Width (W) and Return Radius (R).
2. See the Plans for drainage pipe size and length or as determined by the Engineer. The size will be no less than 15" diameter or equivalent.
3. Stable material may be required for graded driveways to private property as directed by the Engineer 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.

9/21/2021 1:00:38 PM

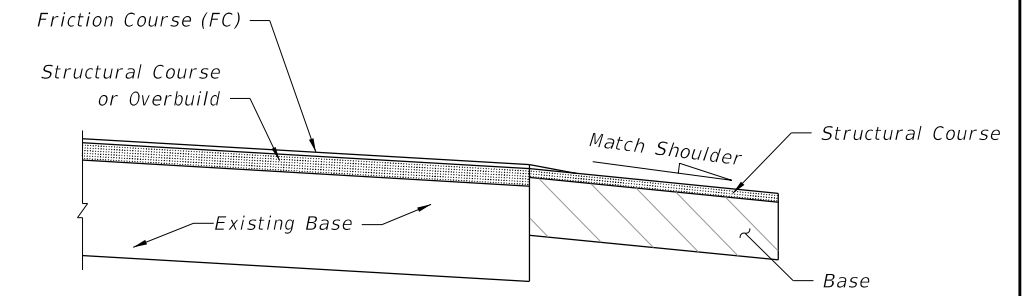
LAST REVISION 11/01/18	REVISION	DESCRIPTION:	 FY 2022-23 STANDARD PLANS	PAVED AND GRADED DRIVEWAYS	INDEX 330-001	SHEET 1 of 2
---------------------------	----------	--------------	---	----------------------------	------------------	-----------------



FRICITION COURSE TRANSITION  
DETAIL "A"



SECTION AA - NEW CONSTRUCTION



SECTION AA - RESURFACING

NEW DRIVEWAY

DRIVEWAY TYPES

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

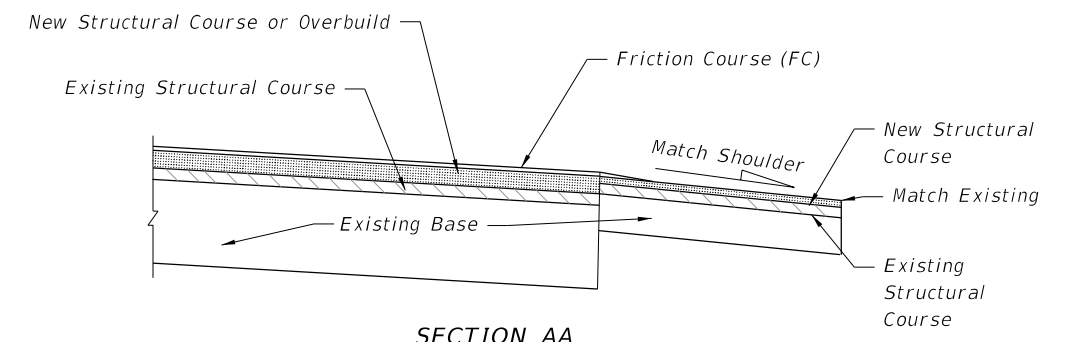
MATERIAL TYPES AND THICKNESSES FOR PAVED CONNECTIONS

Course	Materials	Minimum Thickness (in.)	
		Connections	Roadway*
Structural	Asphaltic Concrete	1 1/2"	1 1/2"
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

- 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.
- 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.
- 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.
- A structural course is required for flexible pavements when they are used for auxiliary lanes serving more than a single connection.
- Use Class NS concrete at least 6" thick for driveways paved with Portland Cement Concrete. Construct in accordance with Specifications 347, 350, and 522.
- The Department may require other pavement criteria where local conditions warrant.



SECTION AA

RESURFACING EXISTING DRIVEWAY

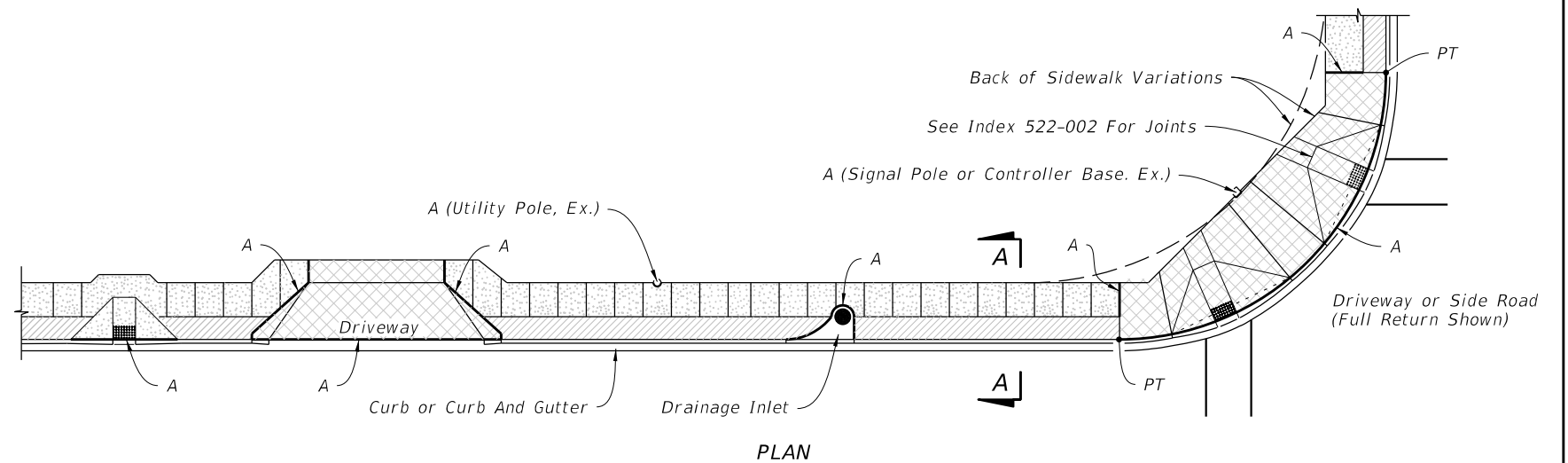
GENERAL NOTES:

- Driveways are to be constructed or resurfaced for low volume (single family, duplex, farm, etc.) residential connections as directed by the Engineer.
- Driveways construction is not required for low volume residential connections where roadway shoulders are paved.
- Match existing paved shoulder widths ≥ 4'. For all other shoulders conditions, construct at 5' wide.
- Connections beyond the shoulder width are to be constructed as directed by the Engineer.
- Construct Driveway Base in accordance with Specification 286.
- Payment for structural course and friction course is to be included in roadway pavement pay item.

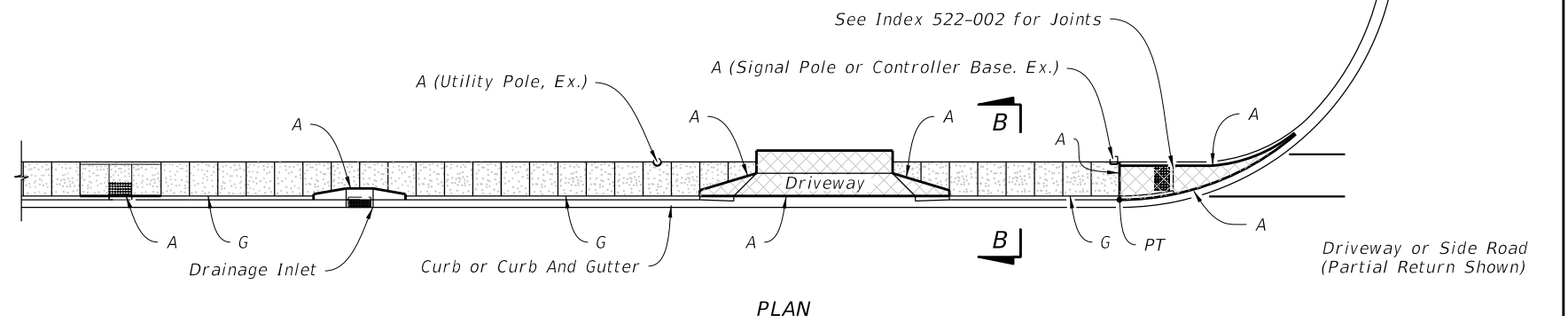
9/21/2021 1:00:39 PM

**GENERAL NOTES:**

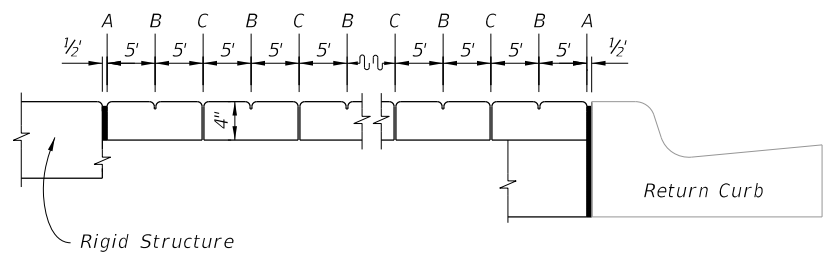
1. Construct sidewalks in accordance with Specification 522. Use 6" concrete for Sidewalks and Curb Ramps Located within Curb Returns (See Plan View). Install all other concrete with thickness as shown, unless otherwise detailed in the Plans.
2. Include detectable warnings on sidewalk curb ramps in accordance 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 1/2".
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)



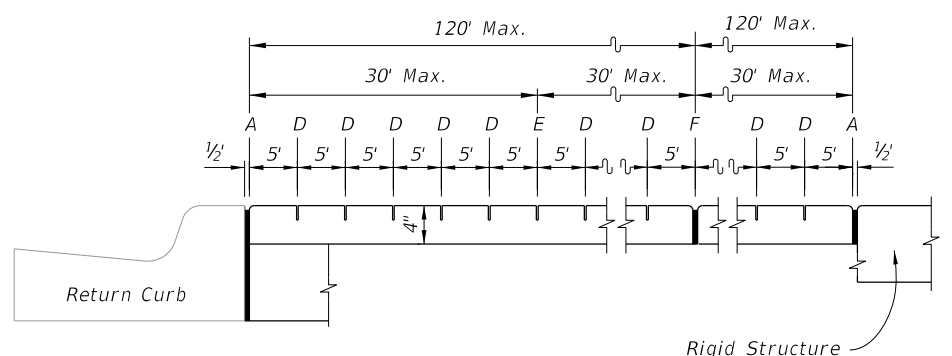
**PLAN**  
**SIDEWALK WITH UTILITY STRIP**



**PLAN**  
**SIDEWALK WITHOUT UTILITY STRIP**



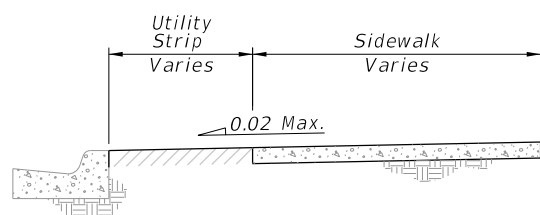
**OPEN JOINTS**



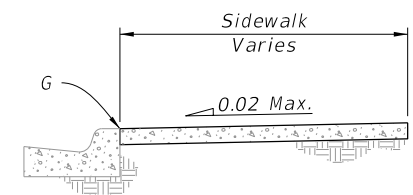
**SAWED JOINTS**

**LONGITUDINAL SECTION**

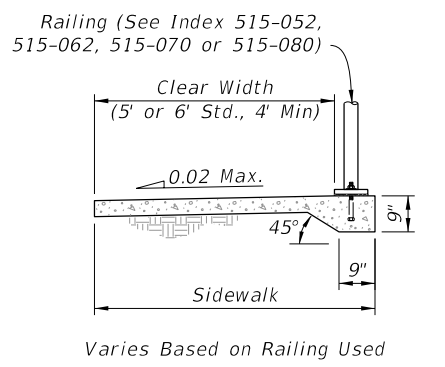
- LEGEND:**
- A- 1/2" Expansion Joints (Preformed Joint Filler) between the sidewalk and; driveways, sidewalk-intersections, and all other fixed objects (e.g. drainage inlets and utility poles).
  - B- 1/8" Dummy Joints, Tooled
  - C- 1/8" Formed Open Joints
  - D- 3/16" Saw Cut Joints, 1 1/2" Deep (within 96 hours) Max. 5' Centers
  - E- 3/16" Saw Cut Joints, 1 1/2" Deep (within 12 hours) Max. 30' Centers Joint(s) Required When Length Exceeds 30'
  - F- 1/2" 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



**SECTION A-A**



**SECTION B-B**



**RAILING DETAIL**

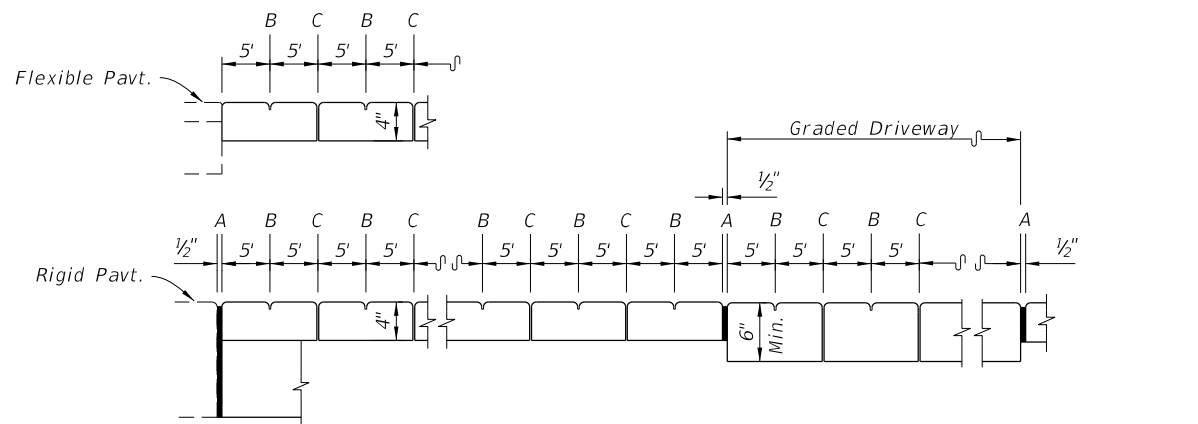
**SIDEWALK JOINTS**

**GENERAL NOTES AND CONCRETE SIDEWALK ON CURBED ROADWAYS**

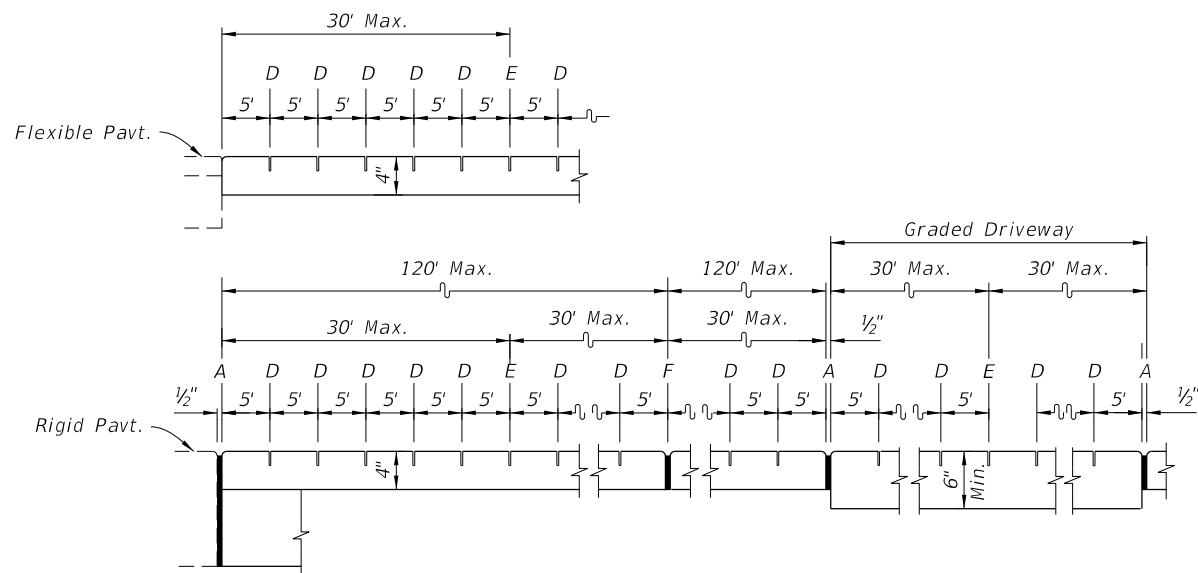
9/22/2021 8:49:04 AM

LAST REVISION 11/01/18	REVISION	DESCRIPTION:		FY 2022-23 STANDARD PLANS	CONCRETE SIDEWALK	INDEX 522-001	SHEET 1 of 2
---------------------------	----------	--------------	--	------------------------------	-------------------	------------------	-----------------

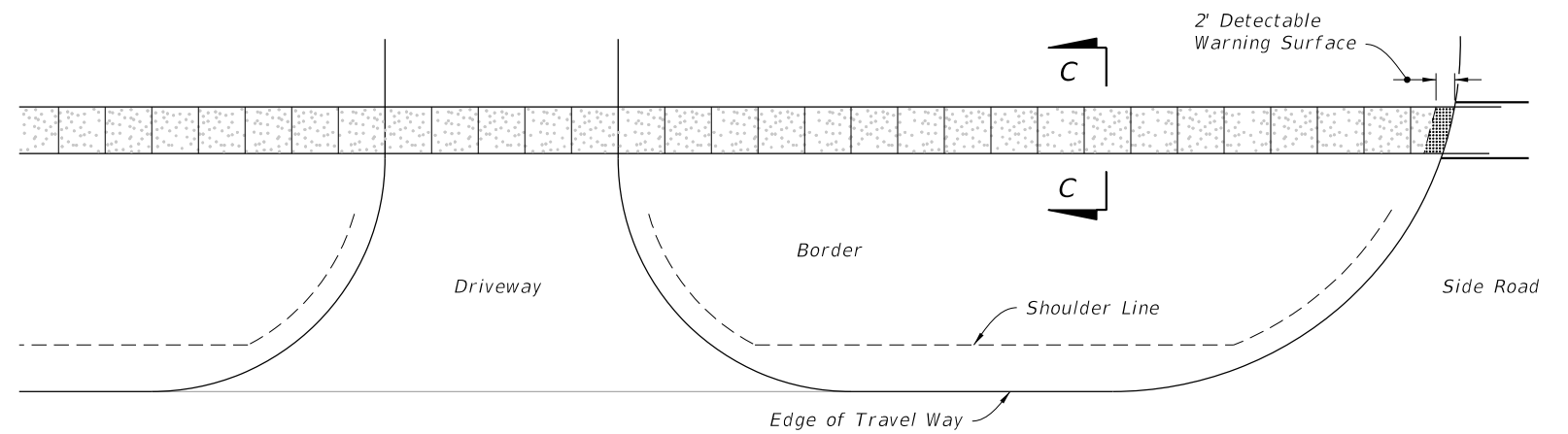




OPEN JOINTS



SAWED JOINTS  
LONGITUDINAL SECTION

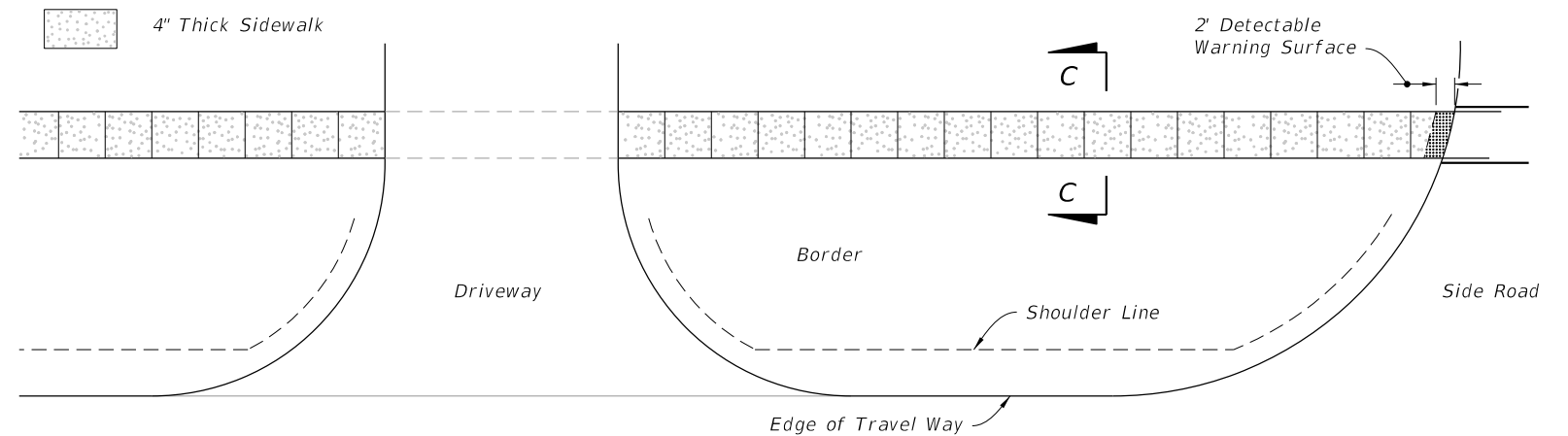


PLAN

CONTINUOUS SIDEWALK

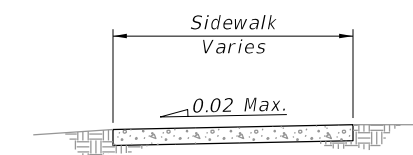
LEGEND:

4" Thick Sidewalk



PLAN

DISCONTINUOUS SIDEWALK



SECTION C-C

LEGEND:

- A- 1/2" 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- 1/8" Dummy Joints, Tooled
- C- 1/8" Formed Open Joints
- D- 3/16" Saw Cut Joints, 1 1/2" Deep (within 96 hours) Max. 5' Centers
- E- 3/16" Saw Cut Joints, 1 1/2" Deep (within 12 hours) Max. 30' Centers Joint(s) Required When Length Exceeds 30'
- F- 1/2" 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

CONCRETE SIDEWALK ON FLUSH SHOULDER ROADWAYS

9/22/2021 8:49:07 AM

LAST REVISION 11/01/18	DESCRIPTION:
---------------------------	--------------



FY 2022-23  
STANDARD PLANS

CONCRETE SIDEWALK

INDEX  
522-001

SHEET  
2 of 2

**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:**

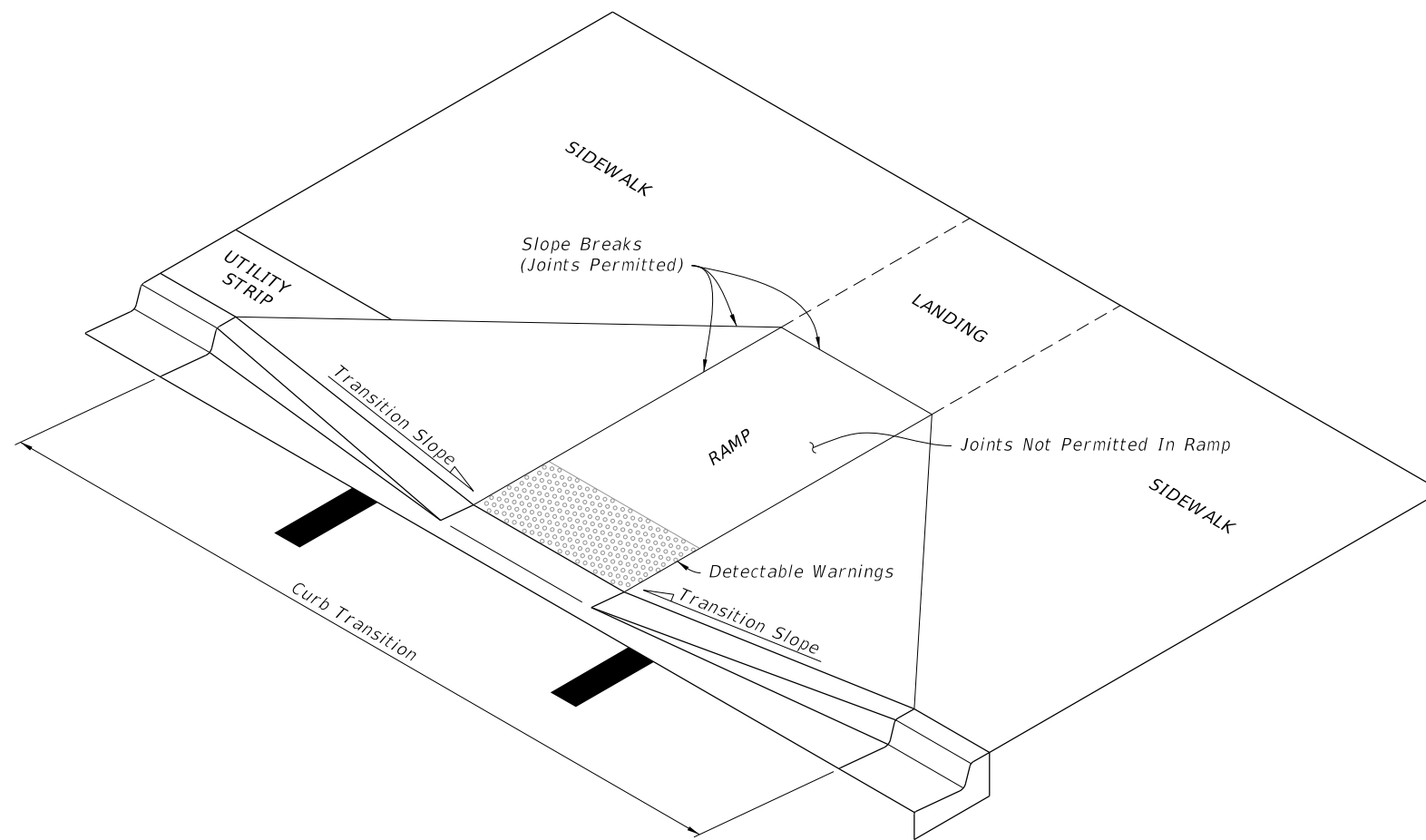
- A. Refer to Index 522-001 for concrete thickness and sidewalk details.
- B. Remove any existing curb, curb and gutter, or sidewalk to the nearest joint beyond the curb transition or to the extent that no remaining section is less than 5 feet long.
- C. Width of Curb Ramp is 4'-0" minimum. Match sidewalk 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:**

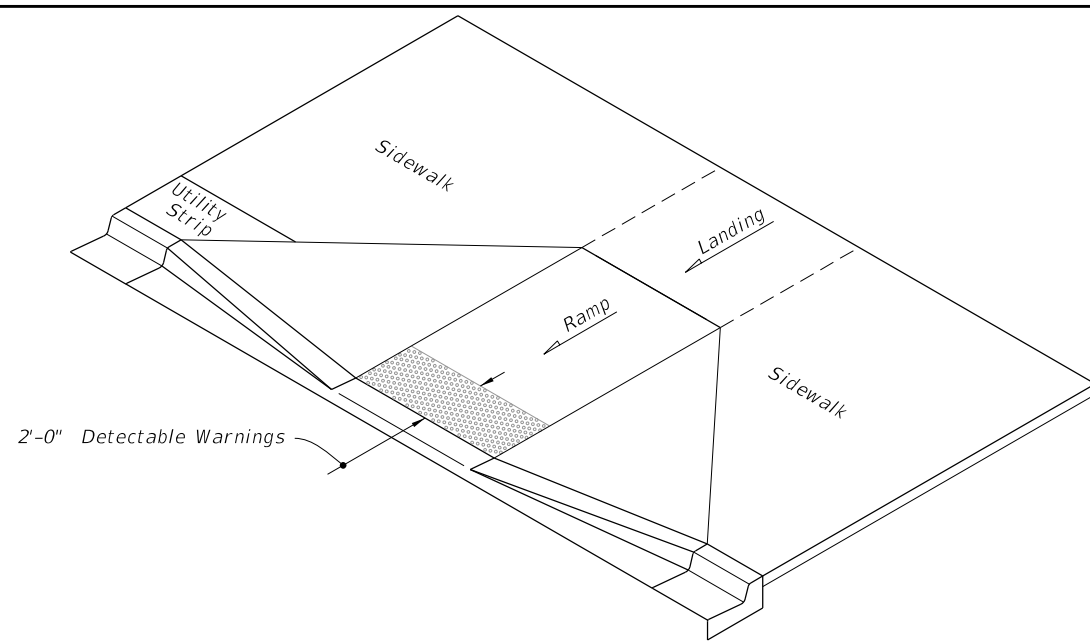
- A. Install detectable warnings in accordance with Specification 527.
- B. Place detectable warnings across the full width of the ramp or landing, to a minimum depth of 2 feet measured perpendicular to the curb line and no greater than 5 feet from the back of the curb or edge of pavement.
- C. If detectable 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.



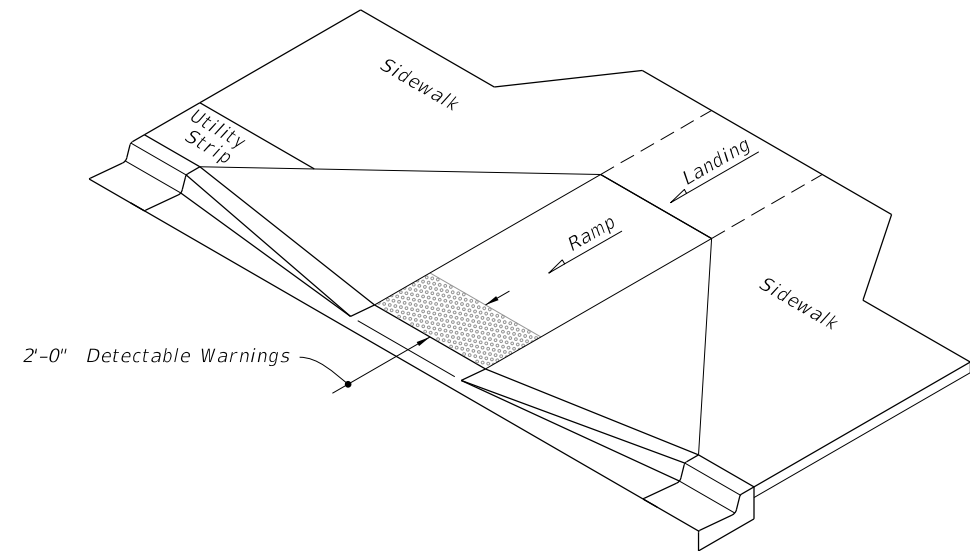
**CURB RAMP NOMENCLATURE**

9/22/2021 8:50:28 AM

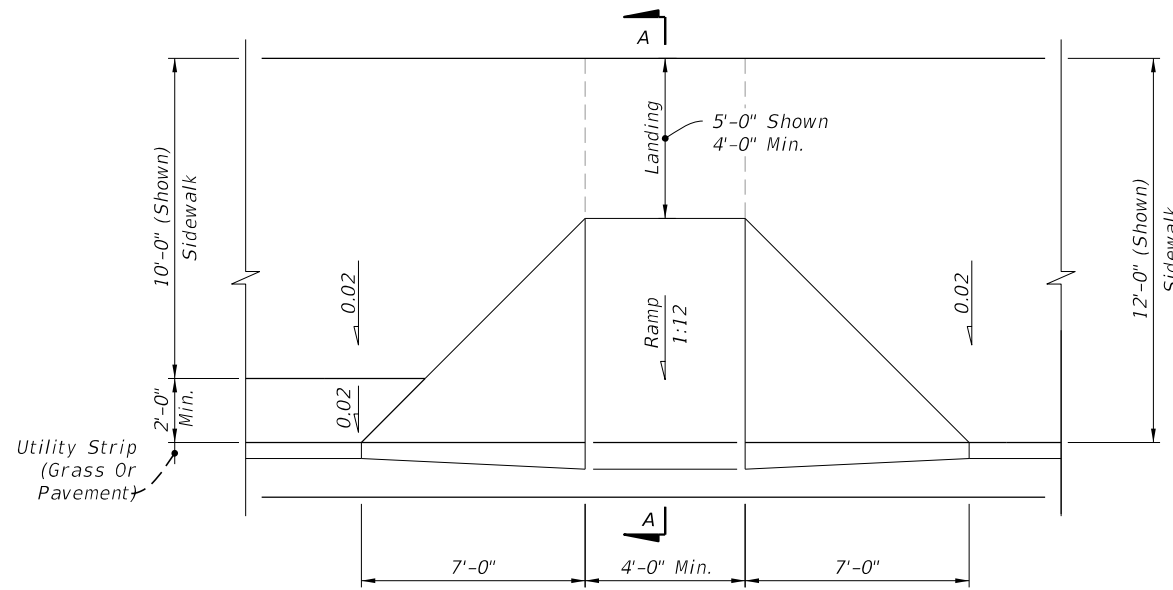
LAST REVISION 11/01/21	REVISION	DESCRIPTION:	 <b>FY 2022-23 STANDARD PLANS</b>	<b>DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS</b>	INDEX <b>522-002</b>	SHEET <b>1 of 7</b>
---------------------------	----------	--------------	---	--	-------------------------	------------------------



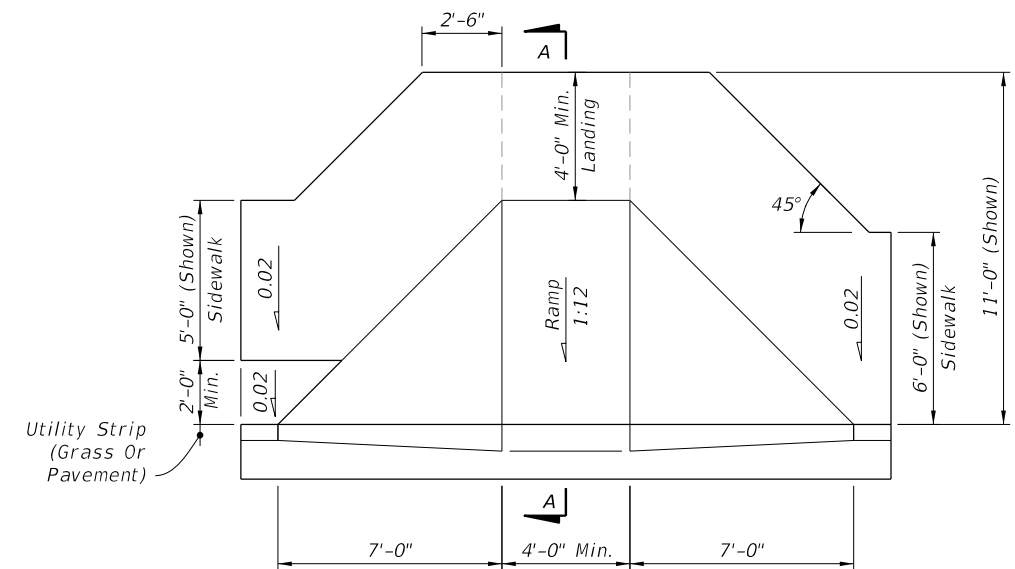
ISOMETRIC VIEW



ISOMETRIC VIEW



PLAN VIEW

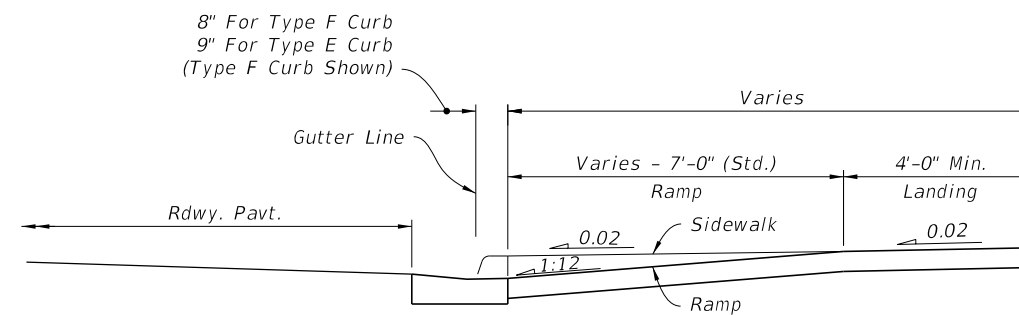


PLAN VIEW

NOTE: For Example of CR-A used in Radial Curb Returns, See Sheet 8.

CR-A

CR-B



SECTION A-A

SIDEWALK CURB RAMPS CR-A AND CR-B

9/22/2021 8:50:30 AM

LAST REVISION 11/01/20	DESCRIPTION:
---------------------------	--------------



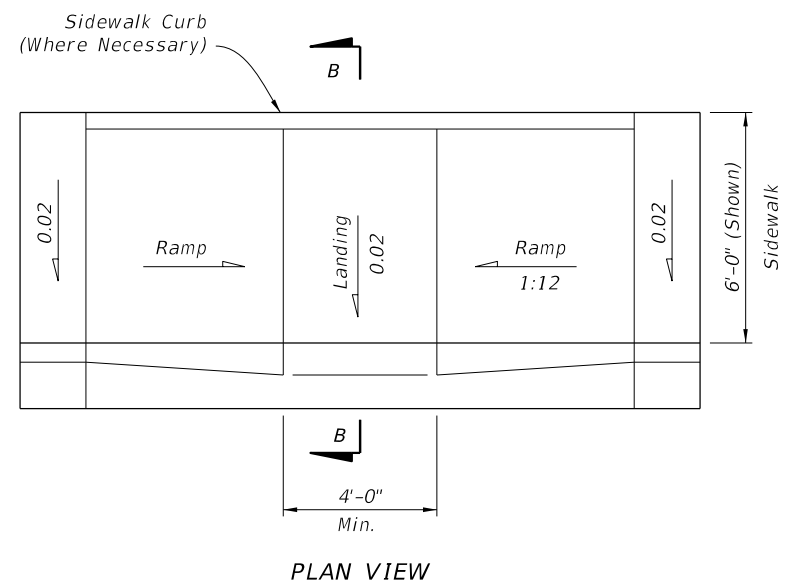
FY 2022-23  
STANDARD PLANS

DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS

INDEX  
522-002

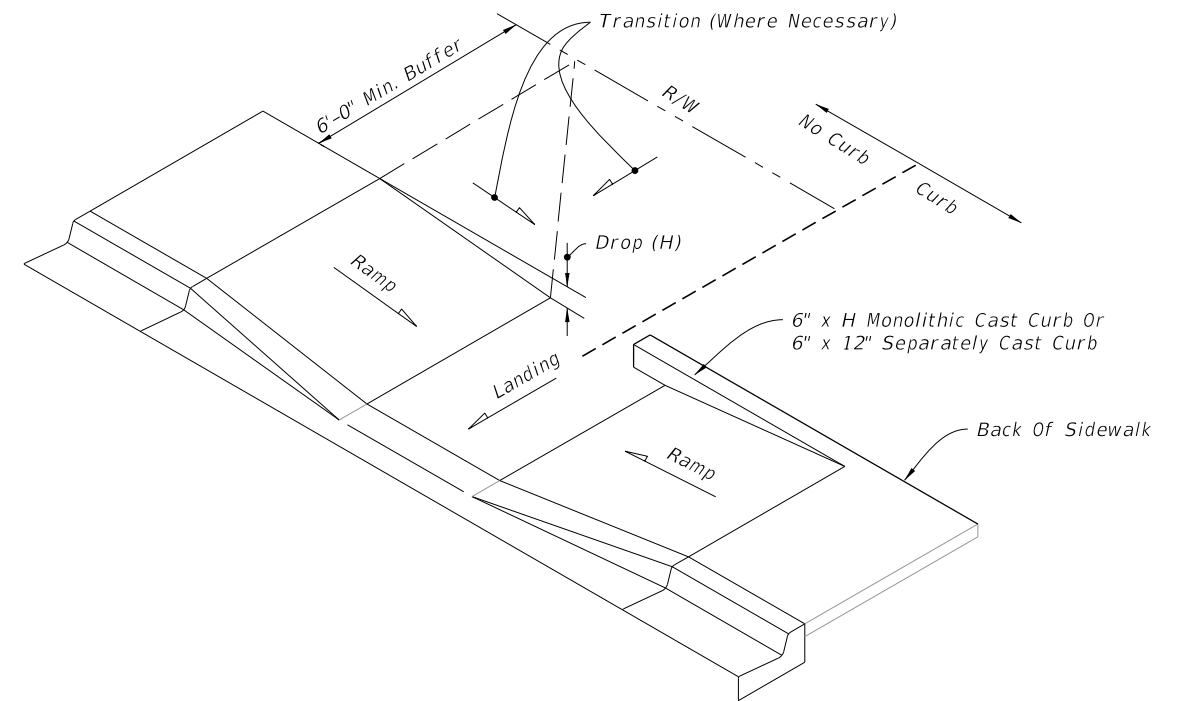
SHEET  
2 of 7



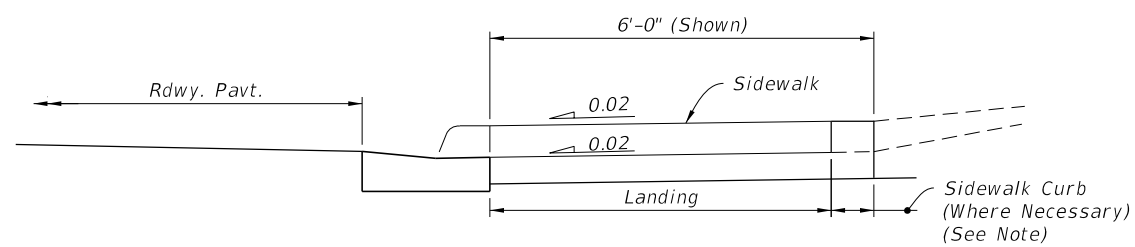


PLAN VIEW

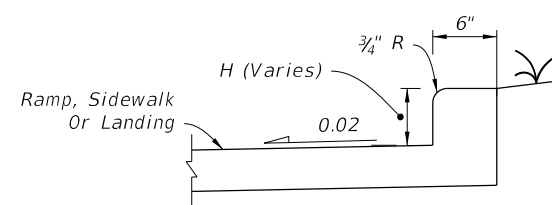
CR-C



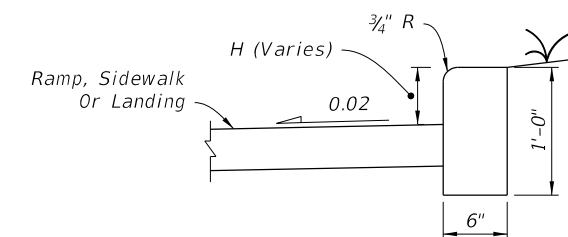
CONSTRUCTION OF SIDEWALK CURB IN CUT SECTIONS



SECTION B-B



MONOLITHIC CAST CURB




SEPARATELY CAST CURB

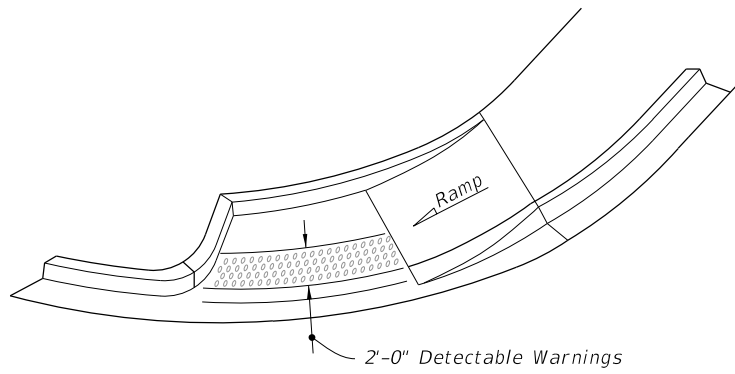
SIDEWALK CURB OPTIONS

NOTE: For additional information on sidewalk curb construction, see SIDEWALK CURB OPTIONS details.

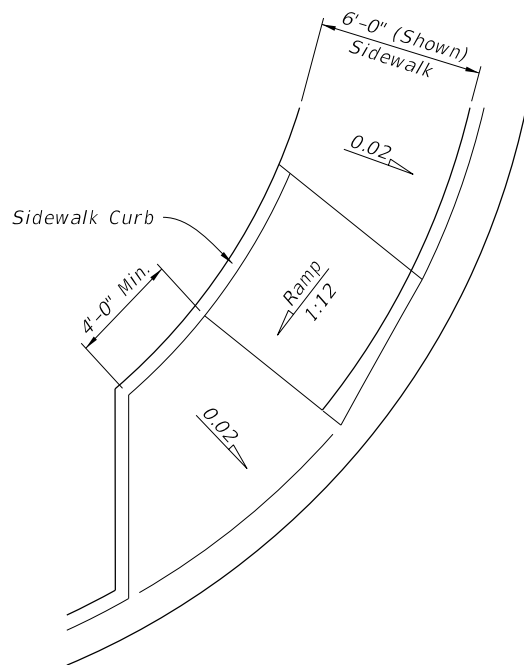
SIDEWALK CURB RAMPS CR-C AND SIDEWALK CURB

9/22/2021 8:50:34 AM

LAST REVISION 11/01/20	REVISION	DESCRIPTION:	 FY 2022-23 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX 522-002	SHEET 3 of 7
---------------------------	----------	--------------	--	---	------------------	-----------------

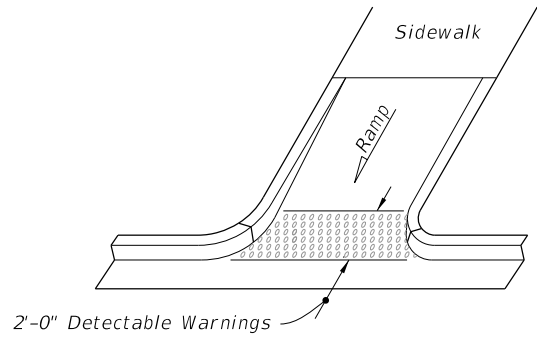


ISOMETRIC VIEW

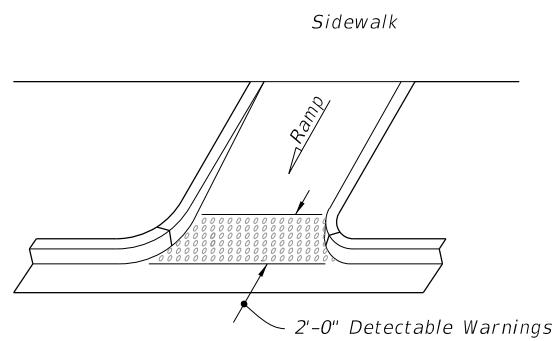


PLAN VIEW

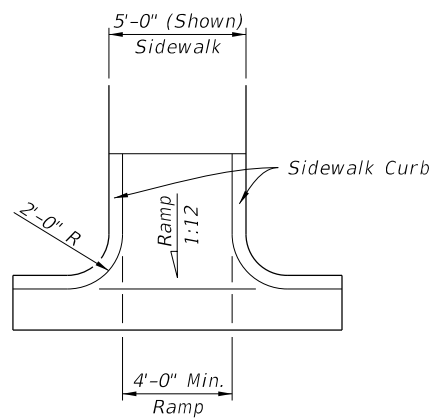
CR-D



OPTION A

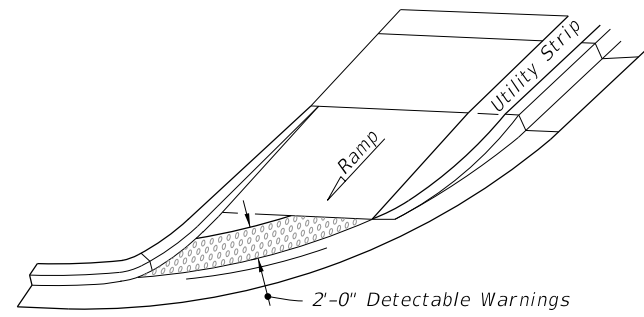


OPTION B  
ISOMETRIC VIEW

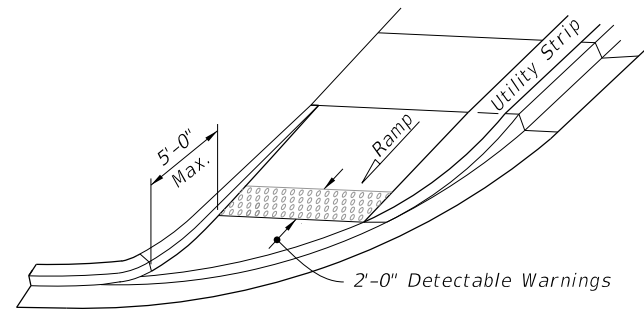


PLAN VIEW

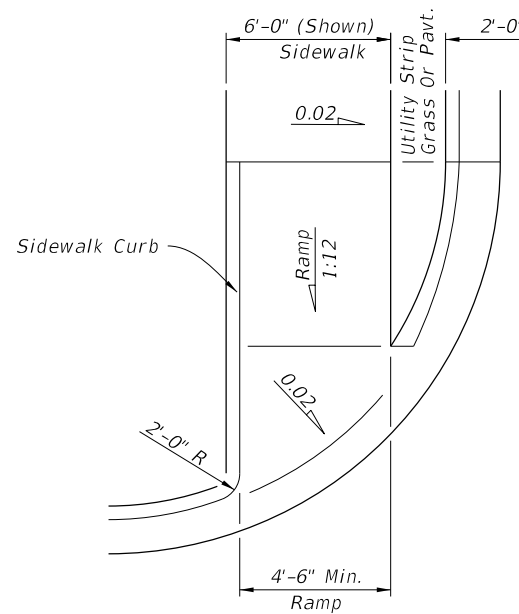
CR-E



OPTION A

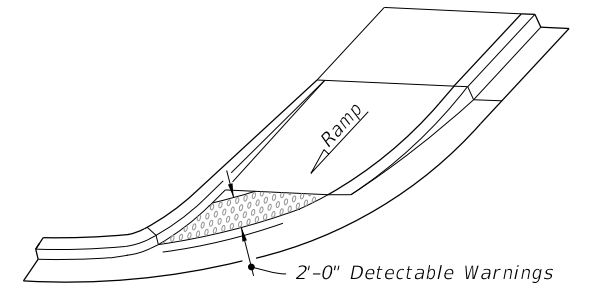


OPTION B  
ISOMETRIC VIEW

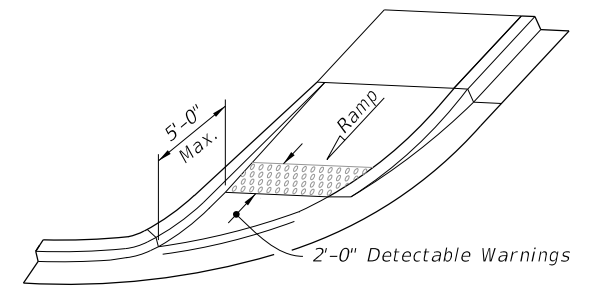


PLAN VIEW

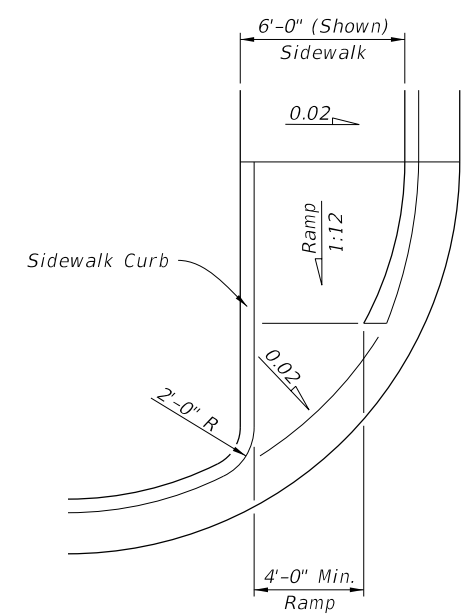
CR-F



OPTION A



OPTION B  
ISOMETRIC VIEW



PLAN VIEW

CR-G

SIDEWALK CURB RAMPS CR-D, CR-E, CR-F & CR-G

9/22/2021 8:50:35 AM

LAST REVISION 11/01/21	DESCRIPTION:
---------------------------	--------------

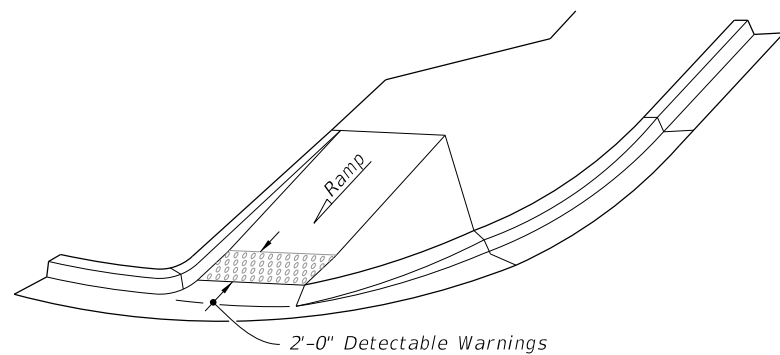


FY 2022-23  
STANDARD PLANS

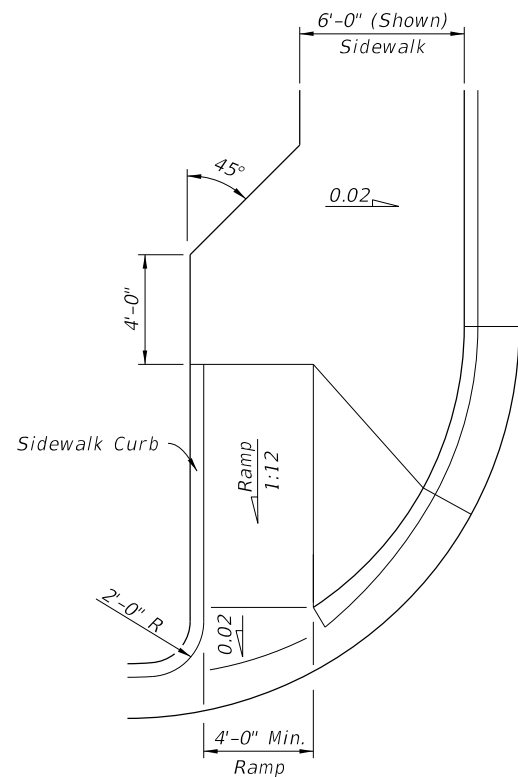
DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS

INDEX  
522-002

SHEET  
4 of 7

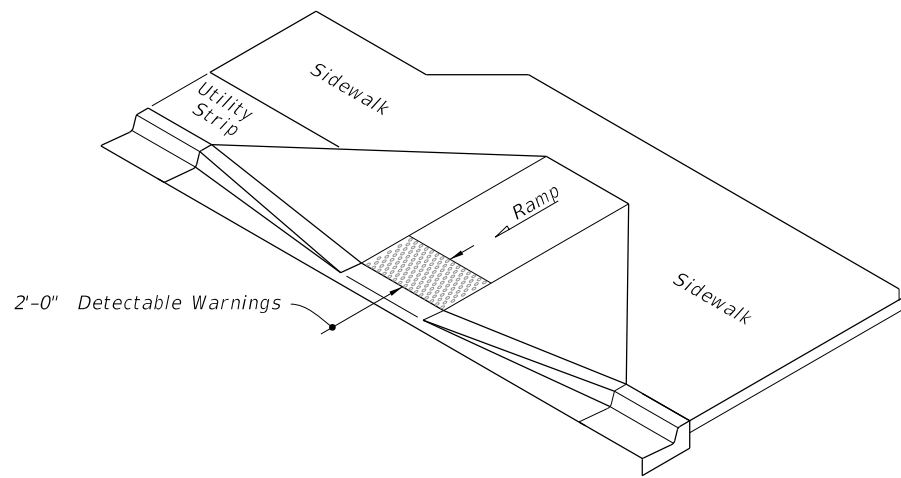


ISOMETRIC VIEW

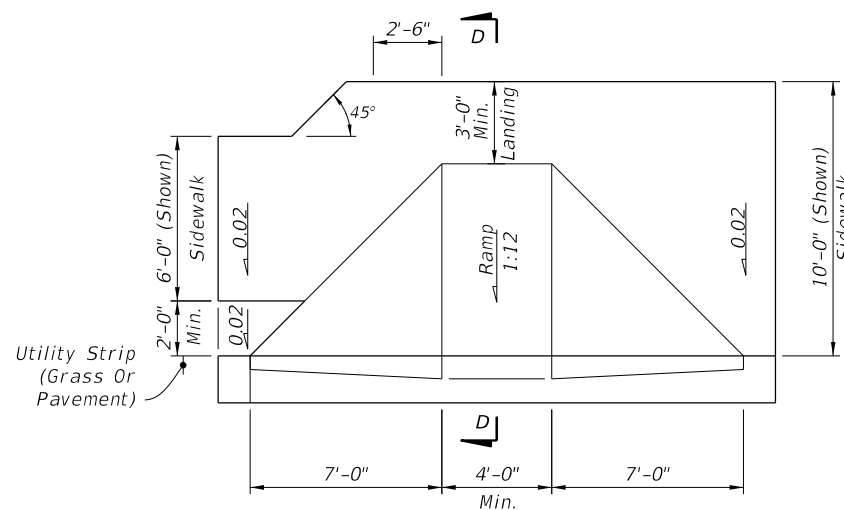


PLAN VIEW

CR-H

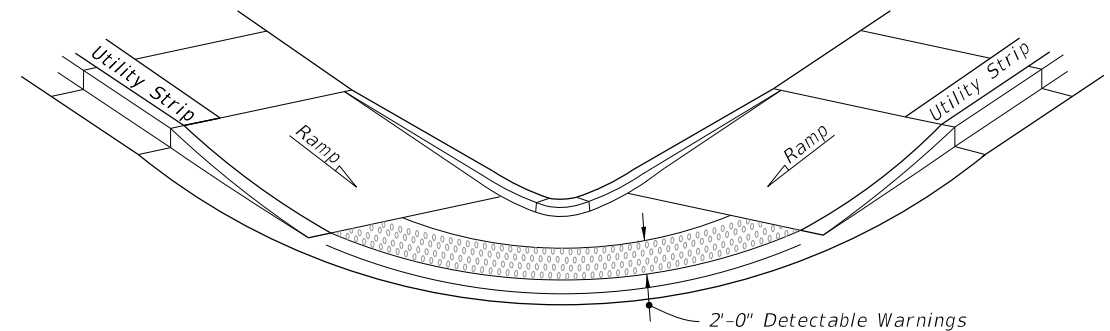


ISOMETRIC VIEW

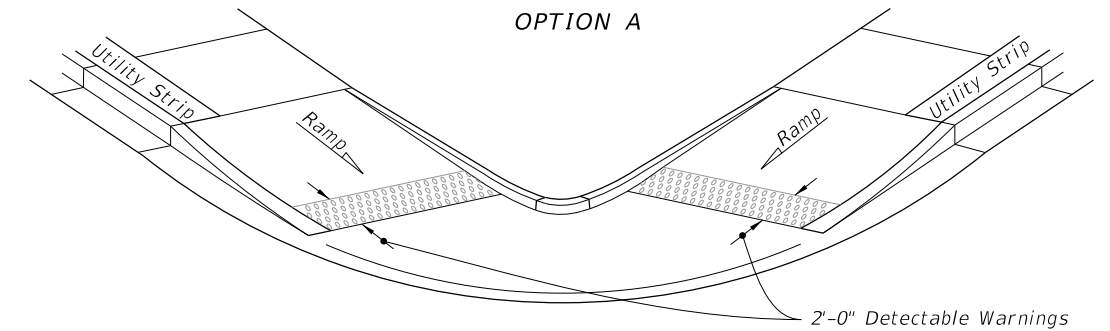


PLAN VIEW

CR-K

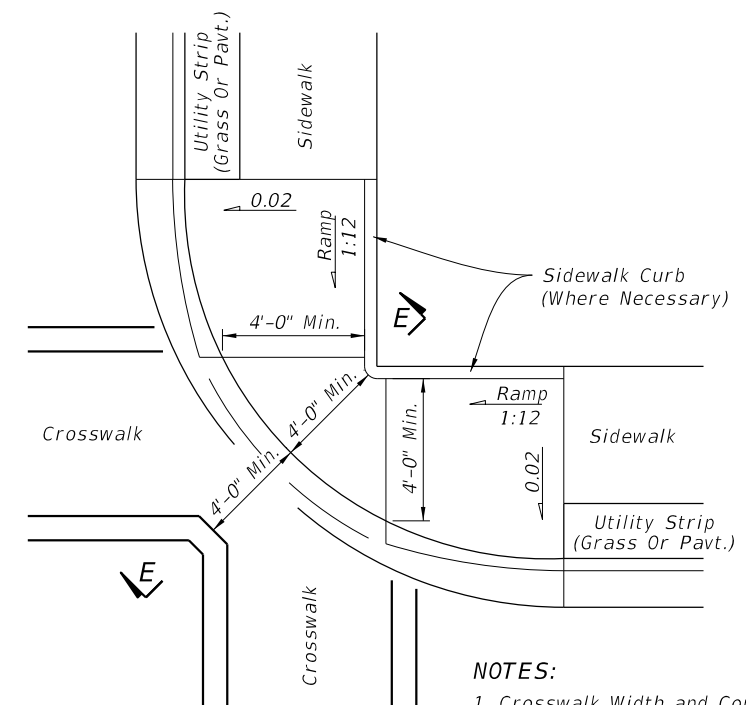


OPTION A



OPTION B

ISOMETRIC VIEW

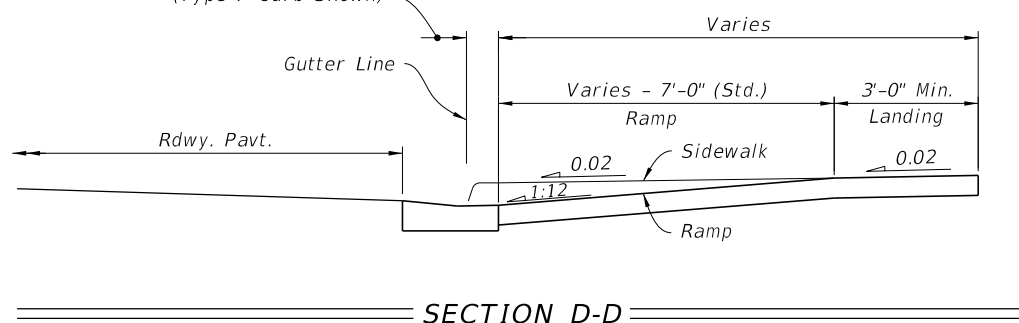


PLAN VIEW

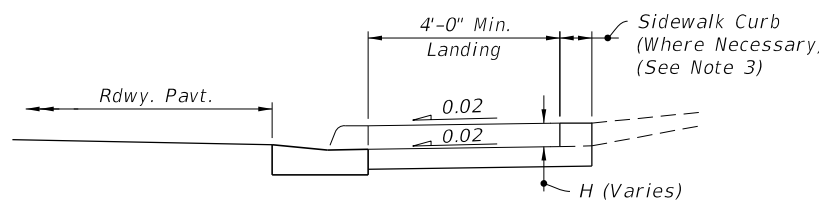
CR-L

- 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.

8" For Type F Curb  
9" For Type E Curb  
(Type F Curb Shown)



SECTION D-D



SECTION E-E

SIDEWALK CURB RAMPS CR-H, CR-K & CR-L

9/22/2021 8:50:38 AM

LAST REVISION	DESCRIPTION:
11/01/20	



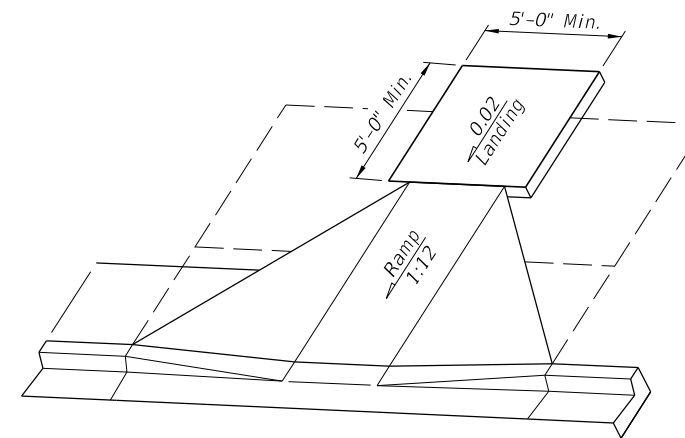
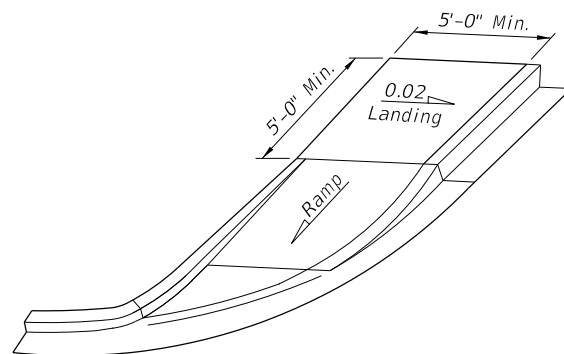
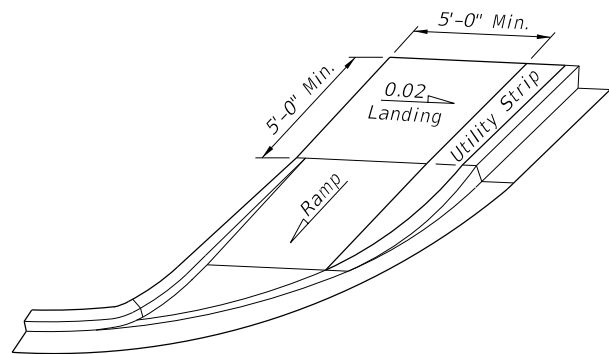
FY 2022-23  
STANDARD PLANS

DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS

INDEX  
522-002

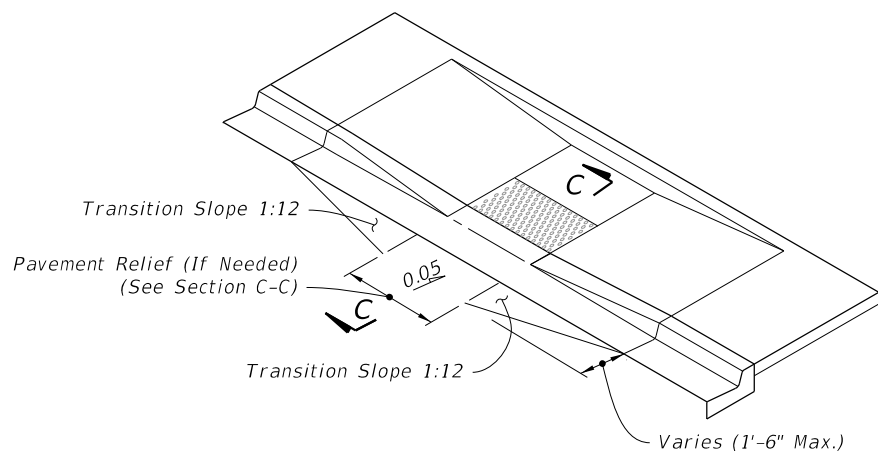
SHEET  
5 of 7



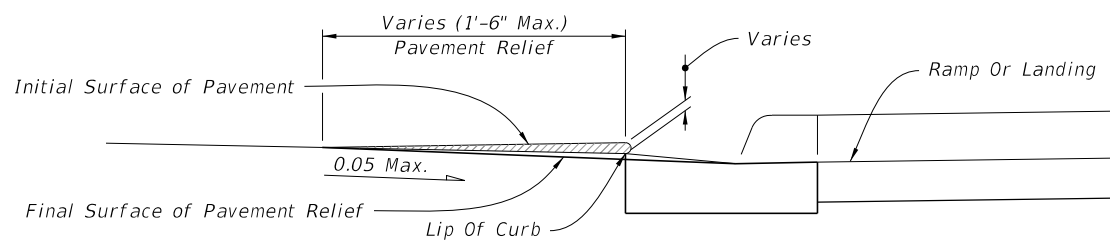


**LANDINGS FOR CURB RAMPS WITHOUT SIDEWALKS**

(See CR-F, CR-G & CR-K Respectively For Detectable Warning Details/Options)



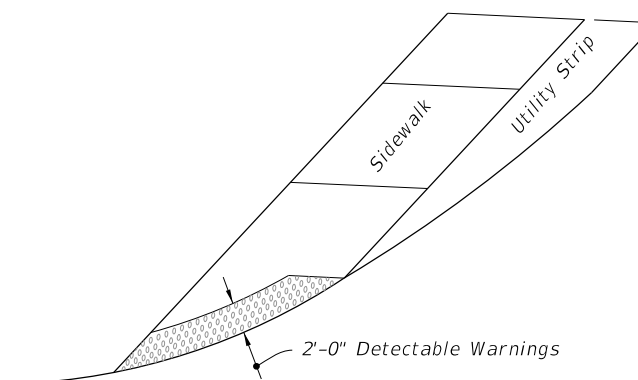
**ISOMETRIC VIEW**  
(CR-C Shown, Other Similar)



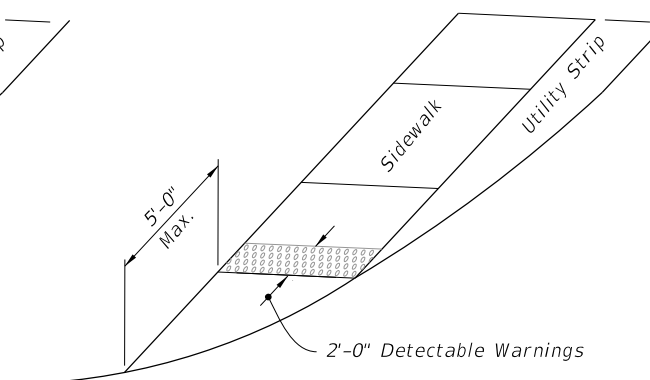
NOTE: Remove Elevated Pavement By Spading And Rolling, Smooth Milling, or Grinding.

**SECTION C-C**

**PAVEMENT RELIEF DETAILS**



**OPTION A**



**OPTION B**

**DETECTABLE WARNING ON FLUSH SHOULDER SIDEWALKS**

**CURB RAMPS WITHOUT SIDEWALKS AND FLUSH SHOULDER SIDEWALKS**

9/22/2021 8:50:40 AM

LAST REVISION 11/01/20	DESCRIPTION:
---------------------------	--------------



FY 2022-23  
STANDARD PLANS

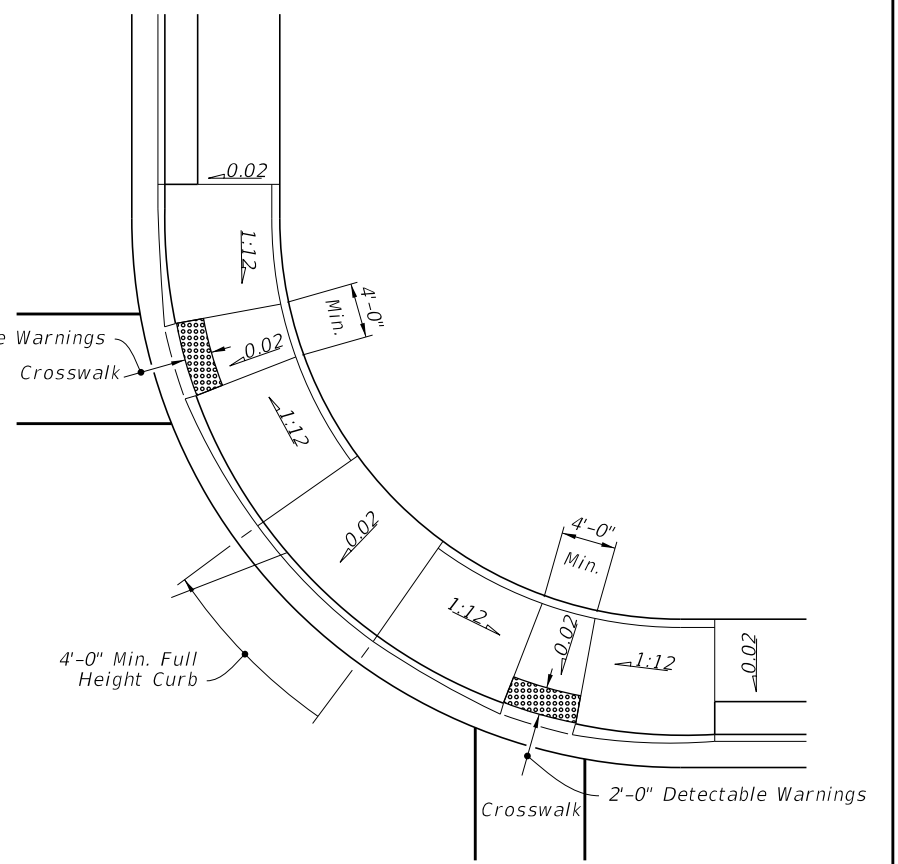
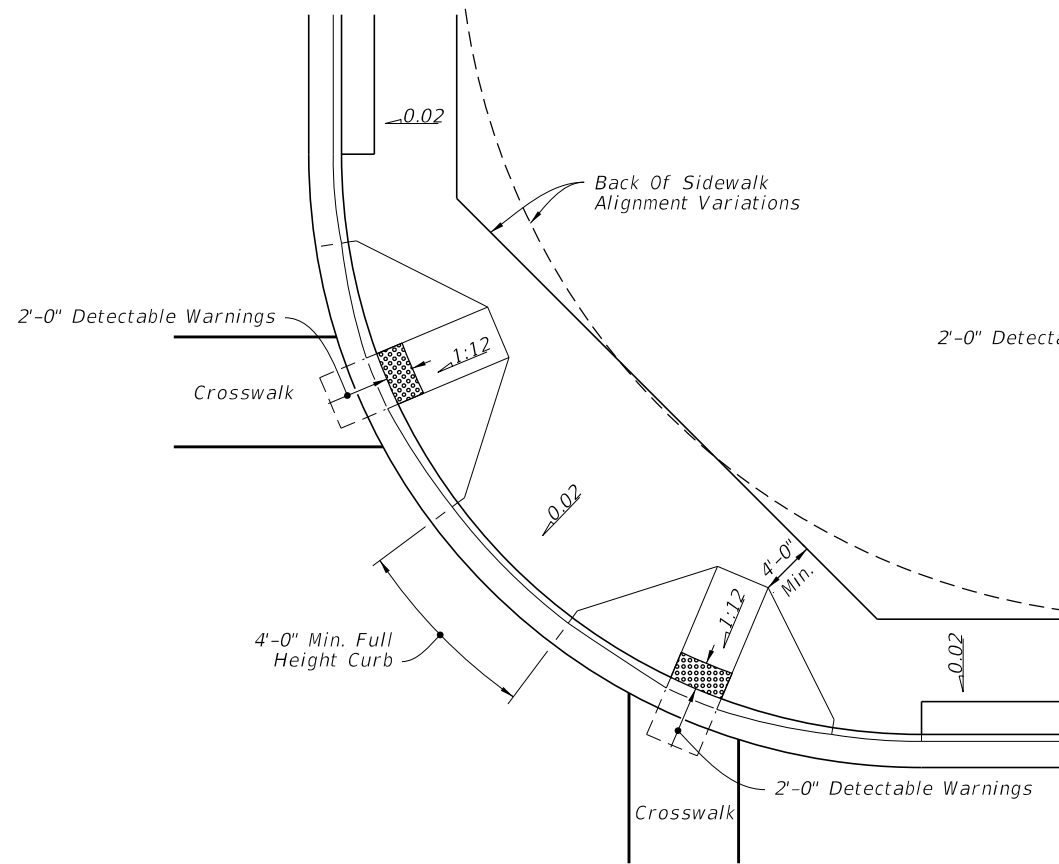
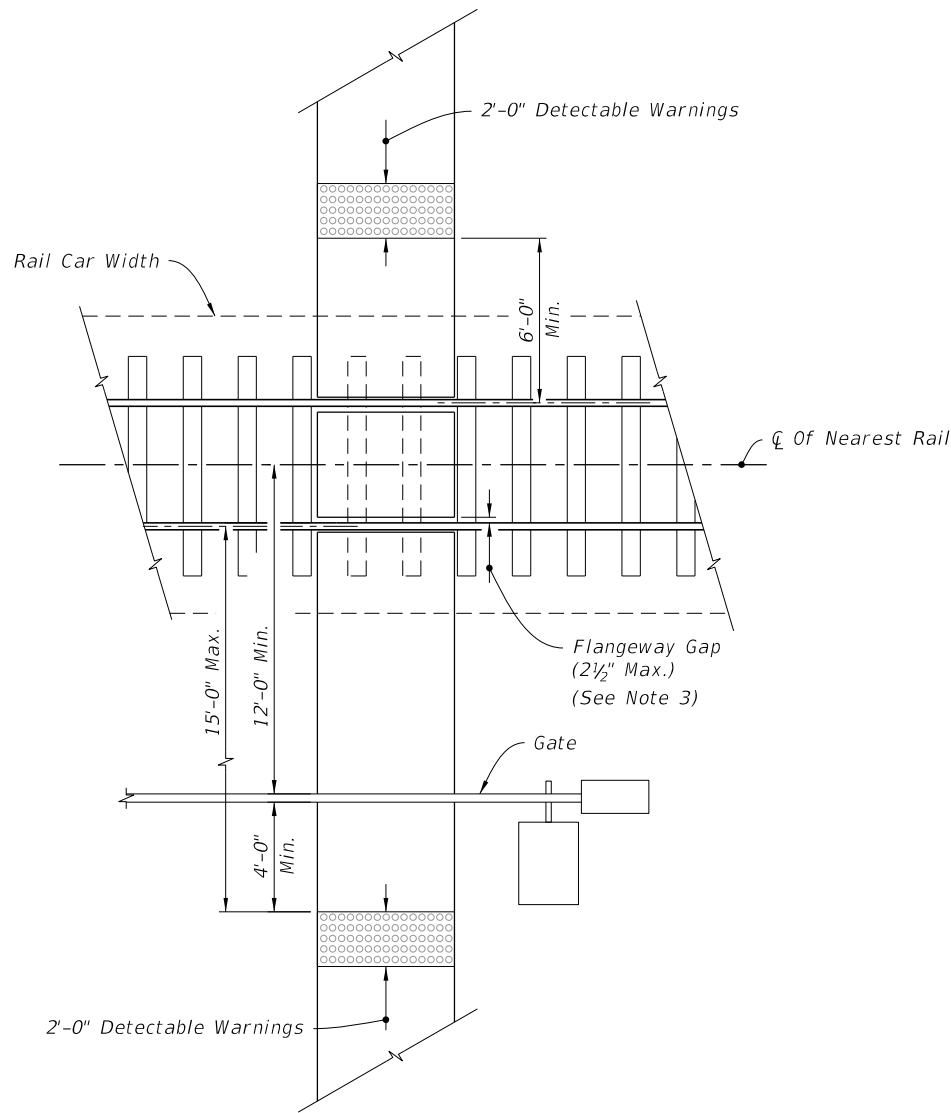
DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS

INDEX  
522-002

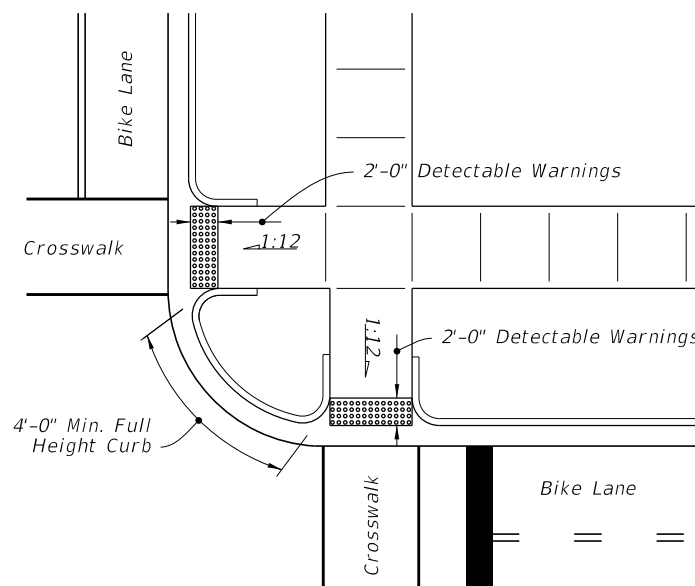
SHEET  
6 of 7

**NOTES:**

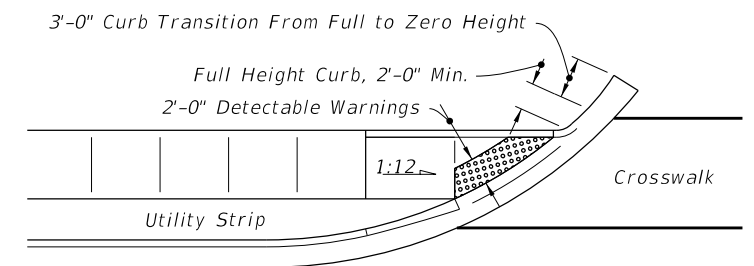
1. Where crosswalk markings are used, ramps must fall within the crosswalk limits. A clear space of 48" minimum is required at the bottom of the ramp within a marked crosswalk. If crosswalk markings are not present, a clear space of 48" minimum is required at the bottom of the ramp outside of active 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.



**CURB RAMPS WITHIN RADIAL RETURN**



**CURB RAMPS OUTSIDE RADIAL RETURN**




**LINEAR SIDEWALK RAMPS**

RAILROAD CROSSING

PLACEMENT OF SIDEWALK CURB RAMPS AT CURBED RETURNS (TYP.)

**RAILROAD CROSSING AND CURB RAMPS AT CURBED RETURNS**

9/22/2021 8:50:43 AM

LAST REVISION 11/01/20	REVISION	DESCRIPTION:	 FY 2022-23 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX 522-002	SHEET 7 of 7
---------------------------	----------	--------------	--	---	------------------	-----------------