

ROADWAY CONTRACT PLANS

69th STREET FROM 66th AVENUE TO SR5/US-1, RESURFACING

INDEX OF ROADWAY PLANS

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IRC PROJ No. - 1639
FDOT PROJ. No. - 438073-1-54-01

ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:
INDIAN RIVER COUNTY ENGINEERING DEPT.
1801 27TH STREET
VERO BEACH, FL 32960

PLANS PREPARED BY:

Kimley»Horn

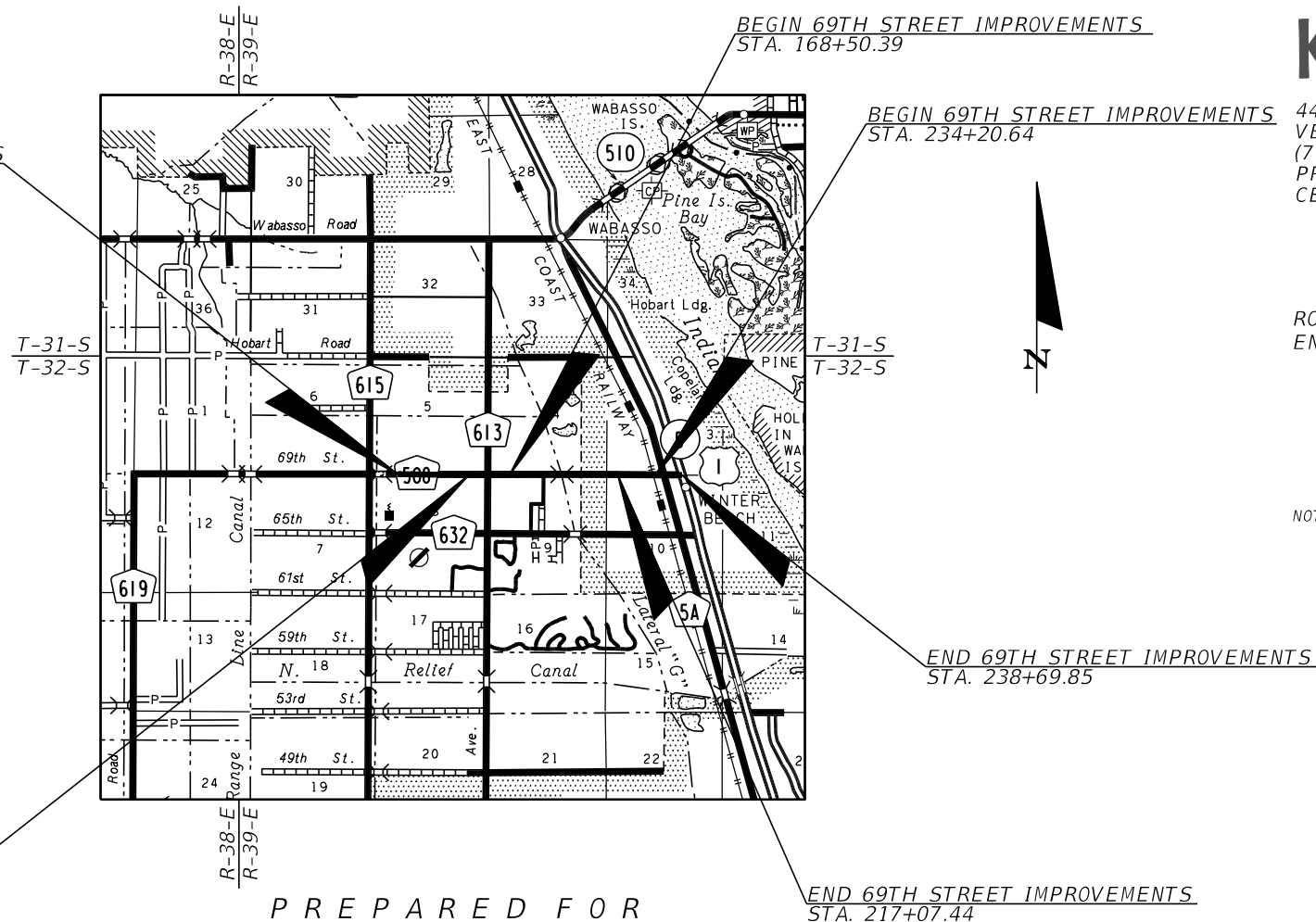
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
PROJECT NUMBER: 047035105
CERTIFICATE OF AUTHORIZATION: 00000696

ROADWAY PLANS
ENGINEER OF RECORD: BRIAN GOOD

P.E. NO.: 56939

NOTE: THE SCALE OF THESE PLANS MAY HAVE
CHANGED DUE TO REPRODUCTION.

BID PLANS
JANUARY 2022



PREPARED FOR



Department of Public Works

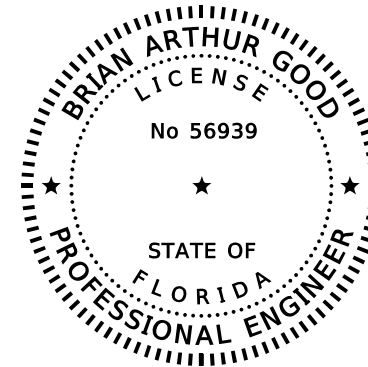
RICHARD B. SZPYRKA, P.E., DIRECTOR

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
FY 2018-19 STANDARD PLANS AND STANDARD
SPECIFICATIONS FOR ROAD AND BRIDGE
CONSTRUCTION DATED 2019, AS AMENDED
BY CONTRACT DOCUMENTS.

SHEET
NO.

1

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C. IRCO. Proj. No. 1639



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
 445 24th STREET, SUITE 200
 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

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

69th STREET ROADWAY IMPROVEMENT PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
1A	SIGNATURE SHEET
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111-121	SIGNING & MARKING
122-123	EROSION CONTROL GENERAL NOTES
128-138	EROSION CONTROL
139-150	UTILITY IMPROVEMENT PLAN & PROFILE
151	IRFWCD CANAL 'G' CROSSING PROFILE DETAIL

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1639

IRCO Proj. No.

REVISIONS							INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 69TH STREET FROM 66TH AVENUE TO SR5/US-1, RESURFACING	SIGNATURE SHEET	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				1A
						<small>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696</small>			

GENERAL NOTES


- 1) GOVERNING SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION, "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" DATED JANUARY 2019 AND INDIAN RIVER COUNTY STANDARD SPECIFICATIONS.
- 2) CONSTRUCTION DETAILS SHALL BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FY 2018-19.
- 3) ALL STATIONS AND OFFSETS ARE REFERENCED TO BASELINE OF CONSTRUCTION.
- 4) THE FINISHED ROADWAY SECTION SHALL BE SMOOTH AND SET TO DRAIN.
- 5) ANY MAILBOX WITHIN THE LIMITS OF CONSTRUCTION IS TO BE TAKEN DOWN AND RESET IN ACCORDANCE WITH POSTAL REQUIREMENTS BY THE CONTRACTOR.
- 6) THE EXACT LOCATIONS OF PROPOSED SWALES, BACK SLOPE LINES AND LIMITS OF CONSTRUCTION WILL BE IN ACCORDANCE WITH THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 7) ALL EXISTING DRAINAGE STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION SHALL REMAIN UNLESS OTHERWISE NOTED. ALL DRAINAGE GRATES ARE TO BE CAST IRON, UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL SUBMIT TO THE COUNTY A VIDEO RECORDING OF THE NEWLY INSTALLED CULVERTS AS PER SPECIFICATION 430-4.8 PIPE INSPECTIONS. THE CONTRACTOR SHALL DEWATER INSTALLED PIPE, REMOVE ALL SILT, DEBRI, ETC. AND SCHEDULE VISUAL INSPECTION TO BE PERFORMED BY THE COUNTY.
- 8) ALL DISTURBED R/W SHALL BE SODDED WITHIN THREE DAYS OF FINAL GRADING.
- 9) THE CONTRACTOR WILL RESTORE ALL AREAS DISTURBED BY THIS CONSTRUCTION TO A CONDITION EQUAL TO, OR BETTER THAN THAT NOW EXISTING.
- 10) ITEMS IN CONFLICT WITH CONSTRUCTION SUCH AS EXISTING CURBS AND GUTTERS, SIDEWALKS, DRAINAGE STRUCTURES, PAVEMENT AND BASE AND EXCESS EXCAVATIONS ARE TO BE REMOVED BY CONTRACTOR AND DISPOSED OF IN A LEGAL AND PROPER MANNER AWAY FROM THE JOB SITE AT THE CONTRACTOR'S EXPENSE UNLESS THE ITEMS ARE SPECIFIED TO BE REUSED ON THE PROJECT.
- 11) EXISTING TREES WITHIN THE PROJECT LIMITS ARE INTENDED TO REMAIN, UNLESS THEY ARE IN DIRECT CONFLICT WITH THE PROPOSED IMPROVEMENTS OR INDICATED TO BE REMOVED. CONTRACTOR SHALL TAKE DUE CARE AS TO PROTECT EXISTING TREES WITHIN THE PROJECT LIMITS THAT ARE NOT IN DIRECT CONFLICT WITH THE IMPROVEMENTS. THE CONTRACTOR SHALL REMOVE ALL EXOTIC VEGETATION LOCATED WITHIN THE PROJECT LIMITS WITHIN PUBLIC RIGHT OF WAY. COST OF TREE PRESERVATION AND EXOTIC VEGETATION REMOVAL SHALL BE INCLUDED WITHIN PAY ITEM 110-1-1.
- 12) DRIVEWAYS THAT ARE DISTURBED ARE TO BE RECONSTRUCTED TO THEIR ORIGINAL OR BETTER CONDITION, UNLESS OTHERWISE STATED ON PLANS.
- 13) STAGING AND MATERIAL STORAGE SHALL NOT BE CONDUCTED ON ABUTTING PRIVATE PROPERTY WITHOUT APPROVAL FROM THE OWNER.
- 14) TURNOUTS (DRIVEWAYS) TO BE CONSTRUCTED AS PER FDOT INDEX 000-515.
- 15) SIDEWALK JOINTS TO BE INSTALLED PER DETAILS ON FDOT INDEX 522-001 FOR ALL SIDEWALKS. ALL JOINTS SHALL BE SAWCUT AS PER FDOT STANDARDS.
- 16) DETECTABLE WARNING SURFACES SHALL CONSIST OF CAST-IN-PLACE COMPOSITE TACTILE UNITS MANUFACTURED BY ADA SOLUTIONS, INC. (1-800-372-0519) OR APPROVED EQUIVALENT. DETECTABLE WARNING SURFACES SHALL EXTEND TWO FEET FROM BACK OF CURB AND SPAN THE ENTIRE RAMP RUN WIDTH. DETECTABLE WARNING SURFACE COLOR SHALL BE "FEDERAL YELLOW."
- 17) NO EXISTING BASE MATERIAL REMOVED IN EXCAVATION SHALL BE REUSED AS PROPOSED BASE MATERIAL.
- 18) THE CONTRACTOR SHALL MAINTAIN ALL GRASSED AND LANDSCAPED AREAS WITHIN THE PROJECT LIMITS IN A SATISFACTORY CONDITION UNTIL FINAL ACCEPTANCE OF THE PROJECT MAINTENANCE SHALL INCLUDE MOWING OF ALL EXISTING GRASSED AREA WITHIN THE RIGHT-OF-WAY. REMOVAL OF ALL TRASH AND DEBRIS ON A WEEKLY BASIS. GRASS HEIGHT SHALL NOT EXCEED 6".

ABBREVIATIONS:

ADJ.	ADJUST	AH	AHEAD
BK	BACK	C&G	CURB & GUTTER
CONC.	CONCRETE	CONST.	CONSTRUCT
DIR.	DIRECTIONAL	ESMT.	EASEMENT
EOP	EDGE OF PAVEMENT	EXIST.	EXISTING
LT	LEFT	PC	POINT OF CURVATURE
PT	POINT OF TANGENCY	PAVT.	PAVEMENT
PGL	PROFILE GRADE LINE	PROP.	PROPOSED
RT	RIGHT	R/R	RAIL ROAD
R/W	RIGHT OF WAY	SHLDR.	SHOULDER
SWK.	SIDEWALK	TRANS.	TRANSITION
TYP.	TYPICAL	VAR.	VARIES
X-SLOPE	CROSS-SLOPE		

DEWATERING NOTES

- 19) ALL TEMPORARY COFFER DAMS CONSTRUCTED WITHIN IRFWCD RIGHTS-OF-WAY SHALL CONSIST OF TEMPORARY STEEL SHEETING. EARTHEN EMBANKMENT DAMS WILL NOT BE PERMITTED. THE CONTRACTOR SHALL COORDINATE WITH THE IRFWCD SUPERINTENDENT PRIOR TO TEMPORARY SHEETING INSTALLATION AS TO DETERMINE MAXIMUM SHEETING TIP ELEVATION PERMITTED. COST OF TEMPORARY SHEETING SHALL BE INCLUDED IN THE ASSOCIATED PAY ITEM REQUIRING THE TEMPORARY SHEETING TO BE INSTALLED. THE COUNTY IS NOT RESPONSIBLE FOR DAMAGE CAUSED BY FLOOD STAGES EXCEEDING THE MAXIMUM SHEET TIP ELEVATION DURING CONSTRUCTION.
- 20) THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM IRFWCD AND THE COUNTY FOR ANY COFFER DAMS, EARTHEN BERMS, ETC. PLACED WITHIN THE IRFWCD CANAL SYSTEM PRIOR TO INSTALLATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL AND STABILIZATION OF ANY SEDIMENT TRANSPORT OUTSIDE OF THE PROJECT LIMITS.

REVISIONS						 <small>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696</small>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 69TH STREET FROM 66TH AVENUE TO SR5/US-1, RESURFACING	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		GENERAL NOTES	2

UTILITY NOTES

- 21) CONTRACTOR SHALL ADJUST ALL UTILITY LIDS AND COVERS TO FINISHED GRADE AS REQUIRED.
- 22) THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES, UNDERGROUND UTILITIES, OR NEAR CANAL BANKS.
- 23) EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
- 24) THE LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY; THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. RELOCATION OF UTILITIES SHALL BE COORDINATED WITH UTILITY COMPANIES AFTER IDENTIFICATION OF CONFLICT BY CONTRACTOR. CONTRACTOR SHALL NOTIFY ENGINEER IN ADVANCE BEFORE ANY RELOCATION AND ALL NON-PREDETERMINED UTILITY RELOCATIONS TO BE COORDINATED WITH UTILITY OWNERS.
- 25) THE UTILITY COMPANIES SHALL BE NOTIFIED BY THE CONTRACTOR TWO (2) BUSINESS DAYS IN ADVANCE OF ANY EXCAVATION INVOLVING THEIR UTILITIES SO THAT COMPANY REPRESENTATIVE CAN BE PRESENT.
- 26) PRIOR TO COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE 556, UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY.
- 27) THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES TO REMAIN IN PLACE.
- 28) THE CONTRACTOR SHALL CALL SUNSHINE (1-800-432-4770) FOR FIELD LOCATIONS THREE (3) BUSINESS DAYS BEFORE DIGGING NEAR UNDERGROUND UTILITIES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE TO CONTACT ANY UTILITY OWNER(S) THAT MAY NOT BE A "SUNSHINE" MEMBER.
- 29) KNOWN UTILITIES:

<u>COMPANY</u>	<u>CONTACT</u>	<u>PHONE</u>
AT&T	LUKE FOLKERTS	321-953-6172
COMCAST CABLE	TONY SPRINGSTEEL	561-804-0973
FPL DISTRIBUTION	ROB MORRIS	772-223-4215
FPL TRANSMISSION	TRICIA D'ANNUNZIO	561-904-3560
INDIAN RIVER COUNTY (UTILITIES)	JOHN BOYER	772-226-1823
INDIAN RIVER COUNTY (TRAFFIC)	JOHN ANKENY	772-226-1563
- 30) INDIAN RIVER COUNTY TRAFFIC ENGINEERING HAS UNDERGROUND CONDUIT FOR TRAFFIC SIGNAL INTERCONNECTIONS IN THIS AREA AS WELL AS OTHER TRAFFIC SIGNAL EQUIPMENT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT SUNSHINE STATE ONE CALL SYSTEM AT 1-800-432-4770 FOR LOCATIONS OF THIS EQUIPMENT AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION.

SURVEY NOTES

- 31) B.M. DATA IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD -88).
- 32) ANY GEODETIC MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, NOTIFY:

GEODETIC INFORMATION CENTER
ATTN: MARK MAINTENANCE SECTION N/CG-162
6001 EXECUTIVE BLVD.
ROCKVILLE, MARYLAND 20852
TELEPHONE NO. (301) 443-8319
- 33) EXISTING SECTION CORNERS AND ¼ SECTION CORNERS, AND OTHER LAND MARKERS OR MONUMENTS LOCATED WITHIN PROPOSED CONSTRUCTION ARE TO BE REFERENCED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND RESET AFTER CONSTRUCTION USING A REGISTERED LAND SURVEYOR LICENSED IN THE STATE OF FLORIDA.

MAINTENANCE OF TRAFFIC NOTES

- 34) THE MAINTENANCE OF TRAFFIC FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE APPLICABLE FDOT INDEX NUMBERS (102-600 SERIES) AND THESE DOCUMENTS; THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (U.S. DEPARTMENT OF TRANSPORTATION, FHWA), SHALL BE FOLLOWED IN THE DESIGN, APPLICATION, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND WORKMEN FROM HAZARDS WITHIN THE PROJECT LIMITS. PEDESTRIAN TRAFFIC SHALL BE MAINTAINED AND PROTECTED AT ALL TIMES.
- 35) ANY TEMPORARY LANE CLOSURES PROPOSED BY THE CONTRACTOR SHALL BE INITIATED NO EARLIER THAN 9:00 AM AND MUST BE REMOVED NO LATER THAN 4:00 PM. TRAFFIC ENGINEERING SHALL BE NOTIFIED A MINIMUM OF 72 HOURS IN ADVANCE OF ANY LANE CLOSURES.
- 36) CONTRACTOR SHALL SUBMIT SIGNED AND SEALED DETAILED MOT PLANS BY A LICENSED FLORIDA PROFESSIONAL ENGINEER AT THE PRE-CONSTRUCTION MEETING TO THE INDIAN RIVER COUNTY TRAFFIC DIVISION FOR APPROVAL.

STORM SEWER CULVERT INSPECTION NOTES

- 37) ALL NEWLY CONSTRUCTED STORM SEWER CULVERTS SHALL BE VIDEO INSPECTED IN ACCORDANCE WITH THE FDOT SPECIFICATION 430-4.8 PIPE INSPECTIONS. THE COST OF VIDEO INSPECTION SHALL BE INCLUDED WITHIN THE UNIT COST OF THE ASSOCIATED CULVERT.
- 38) ALL PROPOSED CONCRETE PIPE COLLARS ARE TO INCLUDE PIPE CONNECTORS AS DETAILED IN FDOT INDEX 430-021 SHEET 6 OF 6. PIPE CONNECTOR MATERIALS ARE TO BE STAINLESS STEEL IN LIEU OF GALVANIZED. COST OF PIPE CONNECTORS TO BE INCLUDED IN THE UNIT PRICE OF ASSOCIATED PIPE.

REVISIONS							INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 69TH STREET FROM 66TH AVENUE TO SR5/US-1, RESURFACING	GENERAL NOTES	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				3
						<small> BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696 </small>			


SUMMARY OF PAY ITEMS

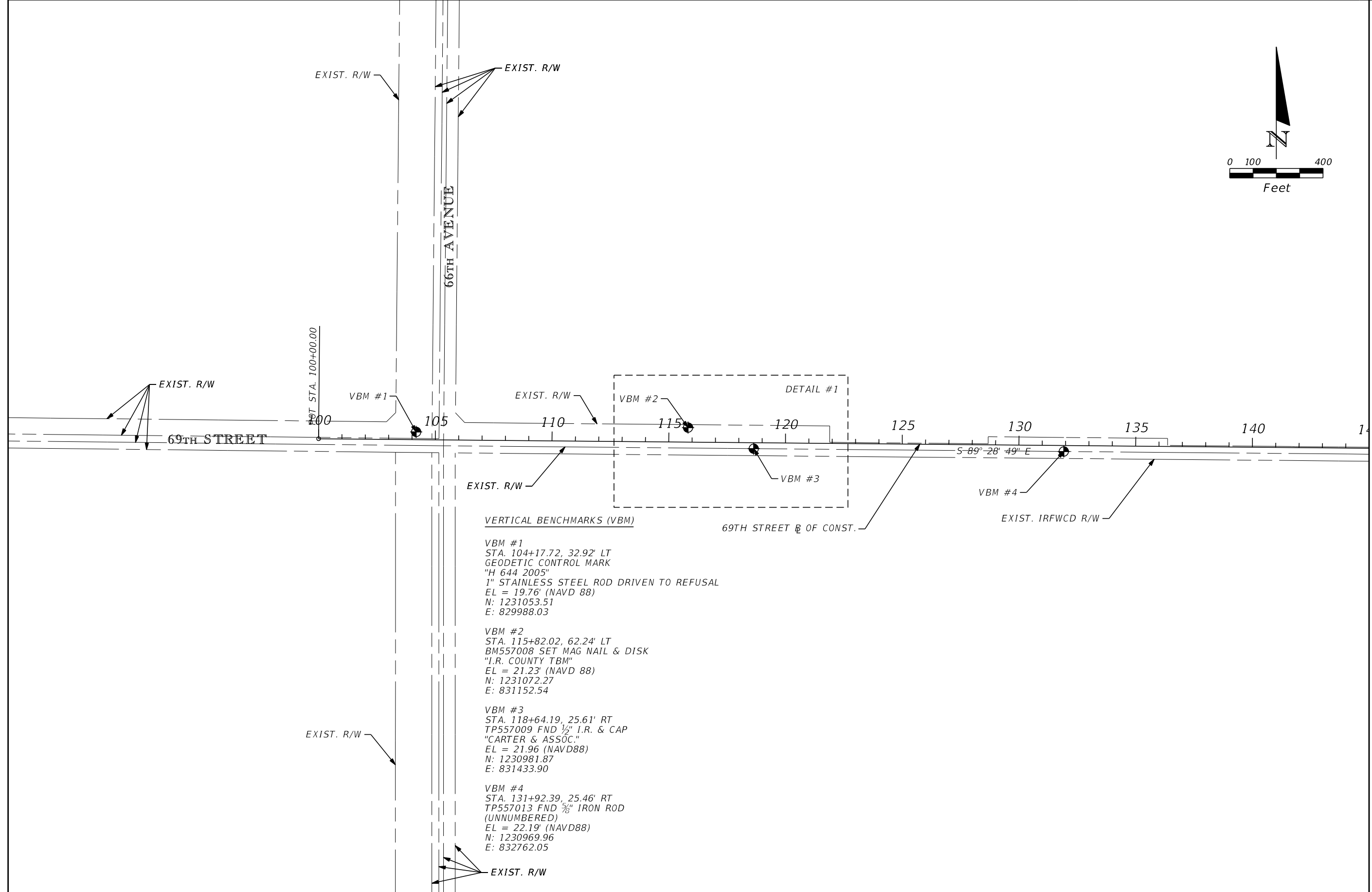
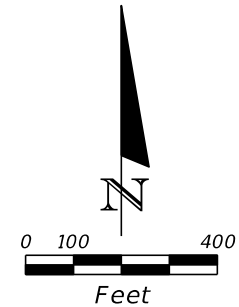
PAY ITEM NO.	DESCRIPTION	UNIT	PROJECT QUANTITY
ROADWAY PAY ITEMS			
101-1	MOBILIZATION/ DEMOBILIZATION	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
104-2	PREVENTION, CONTROL & ABATEMENT OF EROSION AND WATER POLLUTION	LS	1
110-1-1	CLEARING & GRUBBING	AC	14.0
110-7-1	MAIL BOX (F&I)	EA	31
120-1	REGULAR EXCAVATION	CY	8,628
120-6	EMBANKMENT	CY	1,753
160-4	TYPE "B" STABILIZATION	SY	16,808
283-7	FULL DEPTH BASE RECLAMATION (10" MIXING DEPTH)	SY	19,942
285-706	OPTIONAL BASE GROUP 04 (CEMENTED COQUINA, LBR 100, 6")	SY	13,111
285-716	OPTIONAL BASE GROUP 18 (CEMENTED COQUINA, LBR 100, 16")	SY	1,781
334-1-13A	SUPERPAVE ASPHALT CONCRETE (SP-12.5) (TRAFFIC C) (1.5")	TN	2,674
334-1-13B	SUPERPAVE ASPHALT CONCRETE (SP-12.5) (TRAFFIC C) (2")	TN	141
337-7-82	ASPHALTIC CONCRETE FRICTION COURSE (FC-9.5) (TRAFFIC C) (1")	TN	1,781
400-1-2	CONCRETE CLASS 1, ENDWALLS	CY	4.1
425-1-521	INLETS, DT BOT, TYPE C, <10'	EA	12
425-1-551	INLETS, DT BOT, TYPE E, < 10' (W/ CONC. APRON)	EA	1
425-2-41	MANHOLE (TYPE 7) (P-BOTTOM) (<10') (W/ 36" DIA. RING & COVER)	EA	1
430-175-115	CONCRETE PIPE CULVERT (15") (S/CD) (CL III)	LF	133
430-175-118A	CONCRETE PIPE CULVERT (18") (S/CD) (CL III)	LF	438
430-175-118B	CORRUGATED ALUMINUM PIPE CULVERT (18") (S/CD)	LF	50
430-175-124A	CONCRETE PIPE CULVERT (24") (S/CD) (CL III)	LF	23
430-964-4	PVC PIPE FOR NON-STANDARD DRAINAGE (10") (SCH 80)	LF	25
430-984-119	MITERED END SECTION (ROUND) (10") (SD)	EA	1
430-984-123	MITERED END SECTION (ROUND) (15") (SD)	EA	3
430-984-125	MITERED END SECTION (ROUND) (18") (SD)	EA	1
520-1-10	CONCRETE CURB AND GUTTER (TYPE F) (3000 PSI MIN. CONCRETE MIX)	LF	412
520-2-4	CONCRETE CURB (TYPE D)	LF	21
520-3	VALLEY GUTTER - CONCRETE (2' WIDE) (3000 PSI MIN. CONCRETE MIX)	LF	110
522-2	CONCRETE SIDEWALK AND DRIVEWAYS (6" THICK) (FIBER REINFORCED)	SY	334
530-3-4	RIPRAP - RUBBLE (F&I) (DITCH LINING)	TN	50.0
570-1-1	PERFORMANCE TURF (SOD) (BAHIA)	SY	35,000
999-1	ASBUILT SURVEYING AND RECORD DRAWING PREPARATION (BY REGISTERED SURVEYOR)	LS	1
SIGNING AND MARKING PAY ITEMS			
700-1-11	SINGLE POST SIGN, F&I, GROUND MOUNT, UP TO 12 SF	AS	18
700-1-13	SINGLE POST SIGN, F&I, GOUND MOUNT, 20-30 SF	AS	1
700-1-50	SINGLE POST SIGN (RELOCATE)	AS	1
700-13-15	RETROREFLECTIVE SIGN STRIP- F&I, 5'	EA	1
706-3	RETRO-REFLECTIVE MARKERS	EA	362
711-11-121	THERMOPLASTIC, STD, WHITE, SOLID, 6"	LF	16,480
711-11-125	THERMOPLASTIC, STD, WHITE, SOLID, 24"	LF	111
711-11-141A	THERMOPLASTIC, STD, WHITE, SKIP (6'-10'), 6"	LF	107
711-11-141B	THERMOPLASTIC, STD, WHITE, SKIP (2'-4'), 6"	LF	200
711-11-160	THERMOPLASTIC, STD, WHITE, MESSAGE	EA	1
711-11-221	THERMOPLASTIC, STD, YELLOW, SOLID, 6"	LF	10,696
711-11-224	THERMOPLASTIC, STD, YELLOW, SOLID, 18"	LF	38
711-11-231	THERMOPLASTIC, STD, YELLOW, SKIP (10'-30'), 6"	LF	4,020

PAY ITEM NO.	DESCRIPTION	UNIT	PROJECT QUANTITY
UTILITY PAY ITEMS			
999-1A	UTILITY ASBUILT SURVEYING AND RECORD DRAWING PREPARATION (BY REGISTERED SURVEYOR)	LS	1
1050-31-206	UTILITY PIPE (F&I) (PVC) (WATER MAIN) (6")	LF	20
1050-31-208	UTILITY PIPE (F&I) (PVC) (WATER MAIN) (8")	LF	31
1050-31-212	UTILITY PIPE (F&I) (PVC) (WATER MAIN) (12")	LF	5,919
1050-42-214	UTILITY PIPE (F&I) (HDPE, DR 11) (WATER MAIN) (14")	LF	250
1055-51-112	UTILITY FITTING (F&I) (45 DEGREE BEND) (WATER MAIN) (12")	EA	20
1055-51-206	UTILITY FITTING (F&I) (TEE) (DI) (WATER MAIN) (6"X6")	EA	1
1055-51-208	UTILITY FITTING (F&I) (TEE) (DI) (WATER MAIN) (8"X8")	EA	2
1055-51-208A	UTILITY FITTING (F&I) (TEE) (DI) (WATER MAIN) (6"X8")	EA	2
1055-51-212	UTILITY FITTING (F&I) (TEE) (DI) (WATER MAIN) (6"X12")	EA	2
1055-51-212A	UTILITY FITTING (F&I) (TEE) (DI) (WATER MAIN) (8"X12")	EA	4
1055-51-308	UTILITY FITTING (F&I) (REDUCER) (DI) (WATER MAIN) (6"X8")	EA	2
1055-51-410	UTILITY FITTING - 12"x14" PVC/HDPE TRANSITION COUPLING	EA	2
1055-51-508	UTILITY FITTING (F&I) (CAP) (DI) (8") (WATER MAIN)	EA	4
1060-11-222A	UTILITY STRUCTURE AND MANHOLE - BELOW GROUND W/ ARV (<80 CF) (9.1'-12')	EA	1
1080-11-499	UTILITY FIXTURE (F&I) (TEMPORARY JUMPER CONNECTION) (2")	EA	1
1080-24-406	UTILITY FIXTURE (RELOCATE) (VALVE ASSEMBLY) (WATER MAIN) (6")	EA	1
1080-24-108	UTILITY FIXTURE (F&I) (VALVE ASSEMBLY) (WATER MAIN) (8")	EA	4
1080-24-112	UTILITY FIXTURE (F&I) (VALVE ASSEMBLY) (WATER MAIN) (12")	EA	7
1080-32-106	UTILITY FIXTURE (F&I) (SAMPLE POINT) (WATER MAIN) (6")	EA	2
1080-32-108	UTILITY FIXTURE (F&I) (SAMPLE POINT) (WATER MAIN) (8")	EA	4
1080-32-112	UTILITY FIXTURE (F&I) (SAMPLE POINT) (WATER MAIN) (12")	EA	3
1644-136-08	FIRE HYDRANT (F&I) (3 WAY) (2 HOSE, 1 PUMPER) (6")	EA	5

PAY ITEM FOOTNOTES

- 101-1 COST TO INCLUDE CONSTRUCTION LAYOUT SURVEY
- 102-1 MAINTENANCE OF TRAFFIC COSTS SHALL INCLUDE BUT NOT LIMITED TO CONSTRUCTION SIGNS, BUSINESS SIGNS, TEMPORARY BARRICADES, VARIABLE MESSAGE SIGNS, TEMPORARY REFLECTIVE MARKERS, TEMPORARY PAVEMENT MARKINGS, INCIDENTAL TEMPORARY PAVEMENT, DUST CONTROL, ANY TEMPORARY DRAINAGE ELEMENTS BEYOND WHAT IS SPECIFIED IN THE CONTRACT DOCUMENTS, AND ALL ITEMS NECESSARY TO MEET THE MAINTENANCE OF TRAFFIC REQUIREMENTS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION AS PRESCRIBED IN SECTION 102-XXXOF THE FDOT STANDARD PLANS.
- 283-7 COST TO INCLUDE, BUT NOT LIMITED TO, ALL MIXING, ASPHALT EMULSION, FOAMED ASPHALT, SAMPLING, CERTIFICATION, TESTING, WATER AND PORTLAND CEMENT NECESSARY TO DEMONSTRATE COMPLIANCE WITH THE SPECIFICATION STANDARDS.
- 285-7XX THE COST OF PRIME COAT SHALL BE INCLUDED IN THE PRICE OF THE BASE MATERIAL.
- 334-1-13X THE COST OF THE TACK COAT SHALL BE INCLUDED IN THE PRICE OF ASPHALT.
- 425-1-551 COST TO INCLUDE CONCRETE APRON.
- 430-964-4 COST TO INCLUDE ALL FITTINGS, REDUCERS AND BENDS.
- 522-2 COST TO INCLUDE, BUT NOT LIMITED TO, SYNTHETIC FIBER REINFORCEMENT AT 1.5 LB PER CY.
- 530-3-4 COST TO INCLUDE FILTER FABRIC.
- 570-1-1 COST OF PERFORMANCE TURF TO INCLUDE SOD, FERTILIZER, MOWING, WATERING, TOOLS, EQUIPMENT, PEGGING, LABOR AND ALL INCIDENTAL ITEMS NECESSARY. ALL SOD PLACED ON A EMBANKMENT SLOPE STEEPER THAN 3:1 SHALL BE PEGGED.
- 1050-31-XX COST TO INCLUDE, BUT NOT LIMITED TO, ALL RESTRAINTS, CLEANING AND TESTING.
- 1644-136-08 COST TO INCLUDE ALL PIPING, FITTINGS, RESTRAINTS AND TESTING NECESSARY TO INSTALL HYDRANT.

REVISIONS						 BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 69TH STREET FROM 66TH AVENUE TO SR5/US-1, RESURFACING	SUMMARY OF PAY ITEMS	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				4



VERTICAL BENCHMARKS (VBM)

VBM #1
 STA. 104+17.72, 32.92' LT
 GEODETIC CONTROL MARK
 "H 644 2005"
 1" STAINLESS STEEL ROD DRIVEN TO REFUSAL
 EL = 19.76' (NAVD 88)
 N: 1231053.51
 E: 829988.03

VBM #2
 STA. 115+82.02, 62.24' LT
 BM557008 SET MAG NAIL & DISK
 "I.R. COUNTY TBM"
 EL = 21.23' (NAVD 88)
 N: 1231072.27
 E: 831152.54

VBM #3
 STA. 118+64.19, 25.61' RT
 TP557009 FND 1/2" I.R. & CAP
 "CARTER & ASSOC."
 EL = 21.96 (NAVD88)
 N: 1230981.87
 E: 831433.90

VBM #4
 STA. 131+92.39, 25.46' RT
 TP557013 FND 5/8" IRON ROD
 (UNNUMBERED)
 EL = 22.19' (NAVD88)
 N: 1230969.96
 E: 832762.05

MATCHLINE STA. 145+00.00

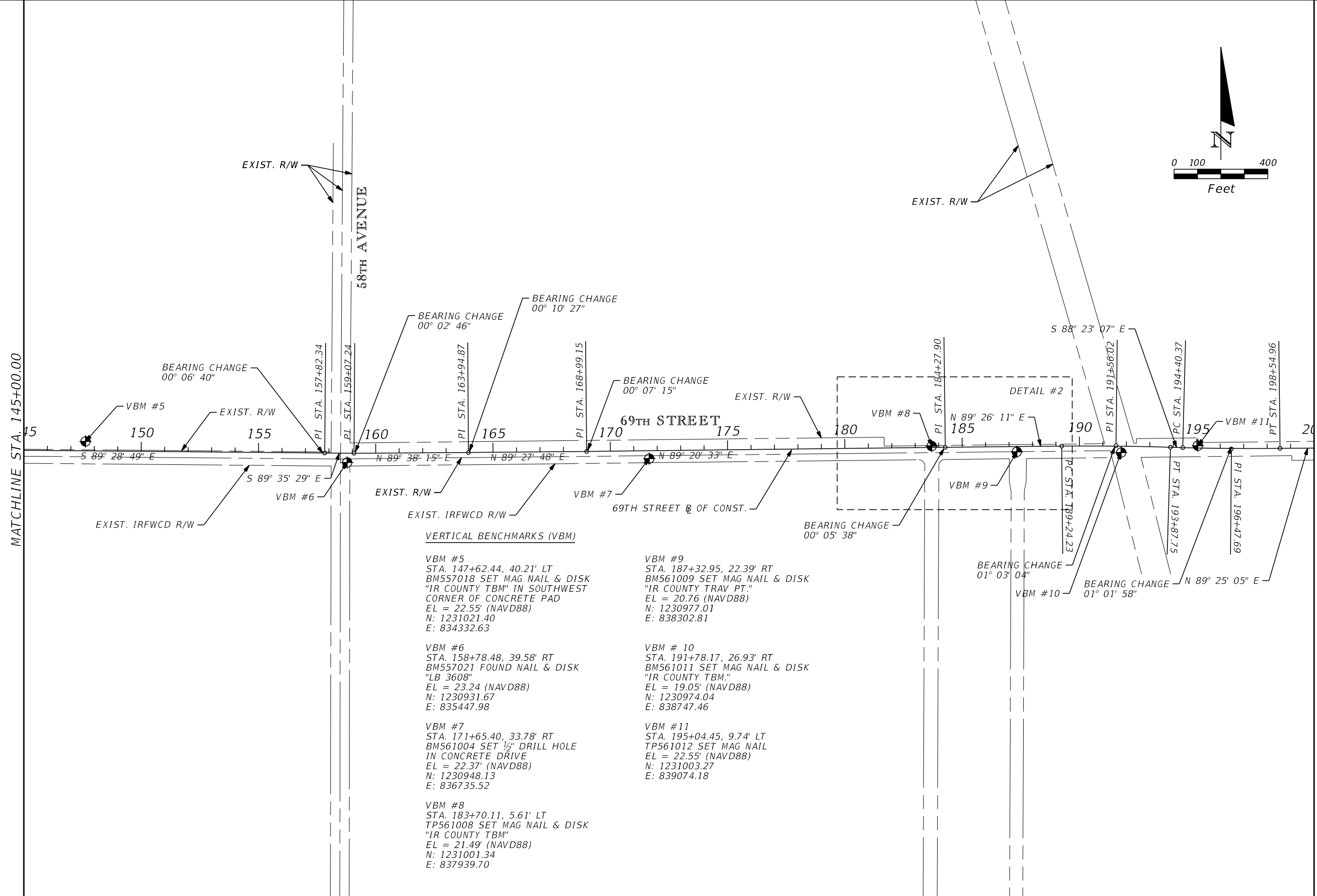
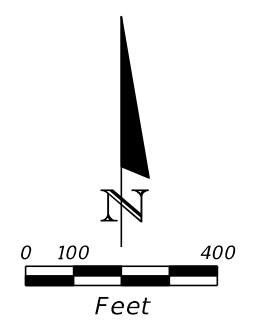
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

HORIZONTAL & VERTICAL
 CONTROL

SHEET NO.
 5



VERTICAL BENCHMARKS (VBM)

- VBM #5**
 STA. 147+62.44, 40.21' LT
 BM557018 SET MAG NAIL & DISK
 "IR COUNTY TBM" IN SOUTHWEST
 CORNER OF CONCRETE PAD
 EL = 22.55' (NAVD88)
 N: 1231021.40
 E: 834332.63
- VBM #6**
 STA. 158+78.48, 39.58' RT
 BM557021 FOUND NAIL & DISK
 "LB 3608"
 EL = 23.24 (NAVD88)
 N: 1230931.67
 E: 835447.98
- VBM #7**
 STA. 171+65.40, 33.78' RT
 BM561004 SET 1/2" DRILL HOLE
 IN CONCRETE DRIVE
 EL = 22.37' (NAVD88)
 N: 1230948.13
 E: 836735.52
- VBM #8**
 STA. 183+70.11, 5.61' LT
 TP561008 SET MAG NAIL & DISK
 "IR COUNTY TBM"
 EL = 21.49' (NAVD88)
 N: 1231001.34
 E: 837939.70
- VBM #9**
 STA. 187+32.95, 22.39' RT
 BM561009 SET MAG NAIL & DISK
 "IR COUNTY TRAV PT."
 EL = 20.76 (NAVD88)
 N: 1230977.01
 E: 838302.81
- VBM #10**
 STA. 191+78.17, 26.93' RT
 BM561011 SET MAG NAIL & DISK
 "IR COUNTY TBM."
 EL = 19.05' (NAVD88)
 N: 1230974.04
 E: 838747.46
- VBM #11**
 STA. 195+04.45, 9.74' LT
 TP561012 SET MAG NAIL
 EL = 22.55' (NAVD88)
 N: 1231003.27
 E: 839074.18

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

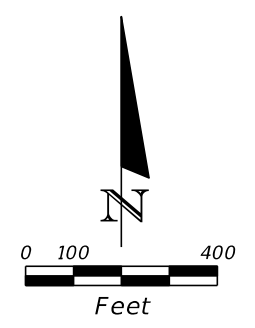
Kimley»Horn

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INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
69TH STREET FROM 66TH AVENUE
TO SR5/US-1, RESURFACING

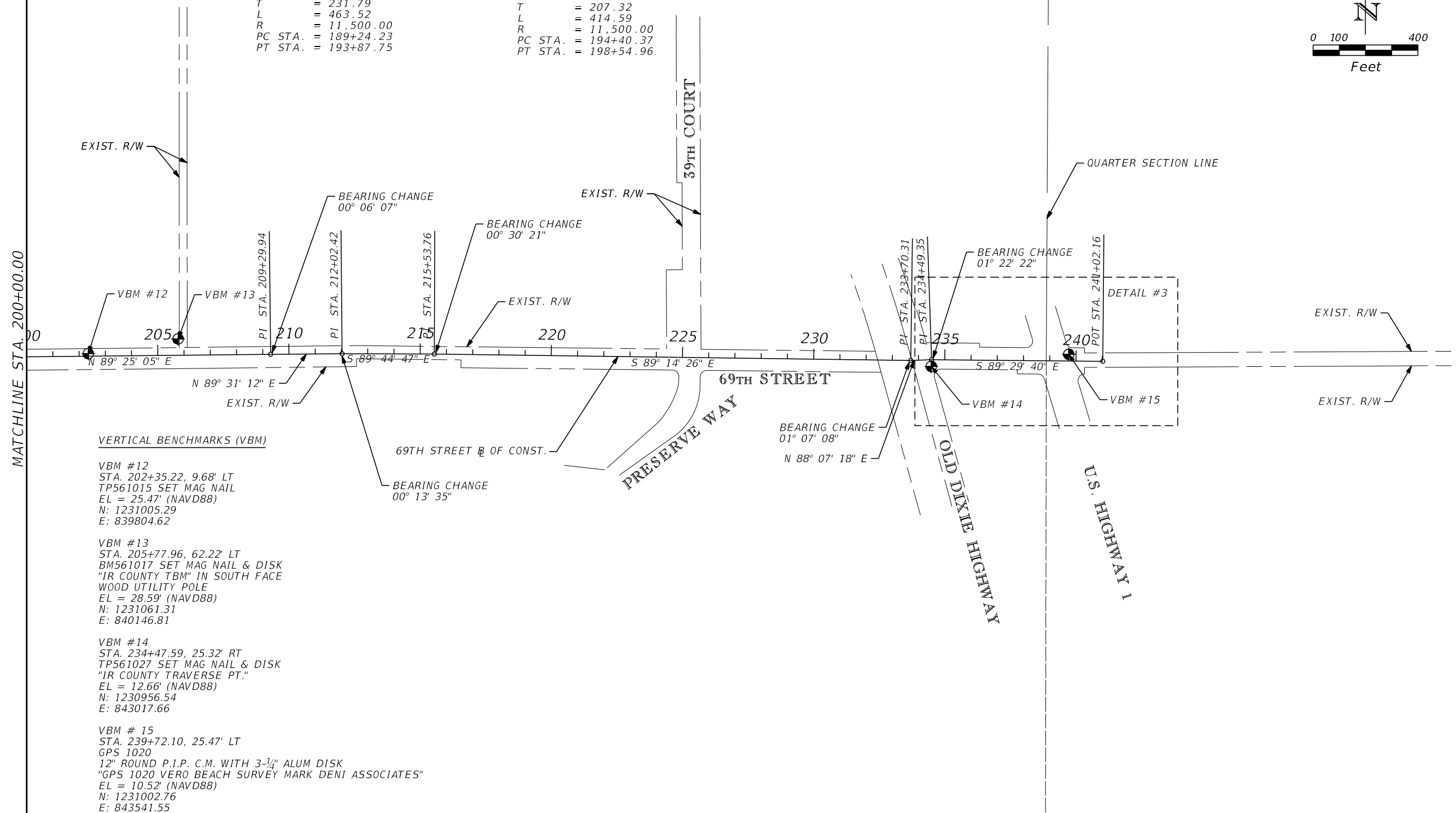
HORIZONTAL & VERTICAL
 CONTROL

SHEET
 NO.
6



CURVE DATA CURVE #1
 PI STA. = 191+56.02
 Δ = 2° 18' 34" (RT)
 D = 0° 29' 54"
 T = 231.79
 L = 463.52
 R = 11,500.00
 PC STA. = 189+24.23
 PT STA. = 193+87.75

CURVE DATA CURVE #2
 PI STA. = 196+47.69
 Δ = 2° 03' 56" (LT)
 D = 0° 29' 54"
 T = 207.32
 L = 414.59
 R = 11,500.00
 PC STA. = 194+40.37
 PT STA. = 198+54.96



VERTICAL BENCHMARKS (VBM)

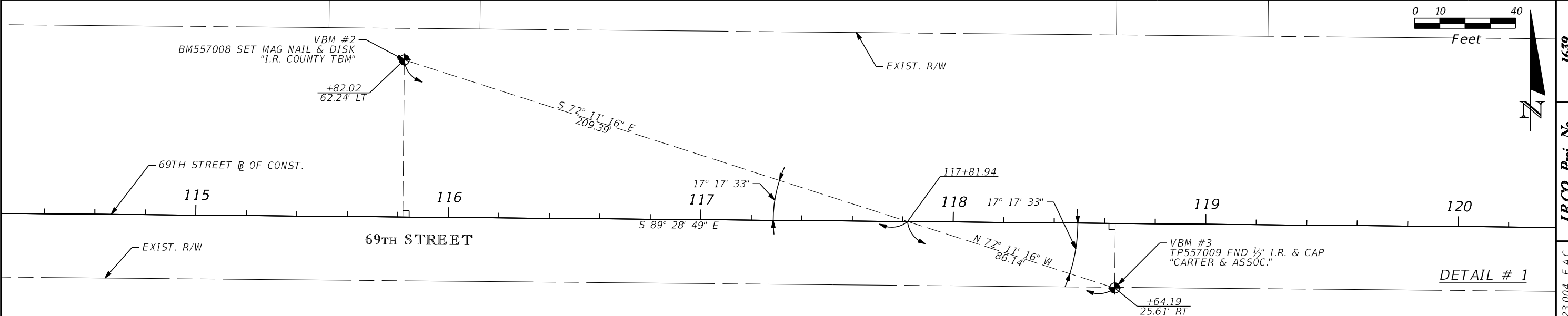
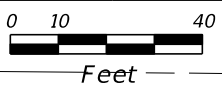
VBM #12
 STA. 202+35.22, 9.68' LT
 TP561015 SET MAG NAIL
 EL = 25.47' (NAVD88)
 N: 1231005.29
 E: 839804.62

VBM #13
 STA. 205+77.96, 62.22' LT
 BM561017 SET MAG NAIL & DISK
 "IR COUNTY TBM" IN SOUTH FACE
 WOOD UTILITY POLE
 EL = 28.59' (NAVD88)
 N: 1231061.31
 E: 840146.81

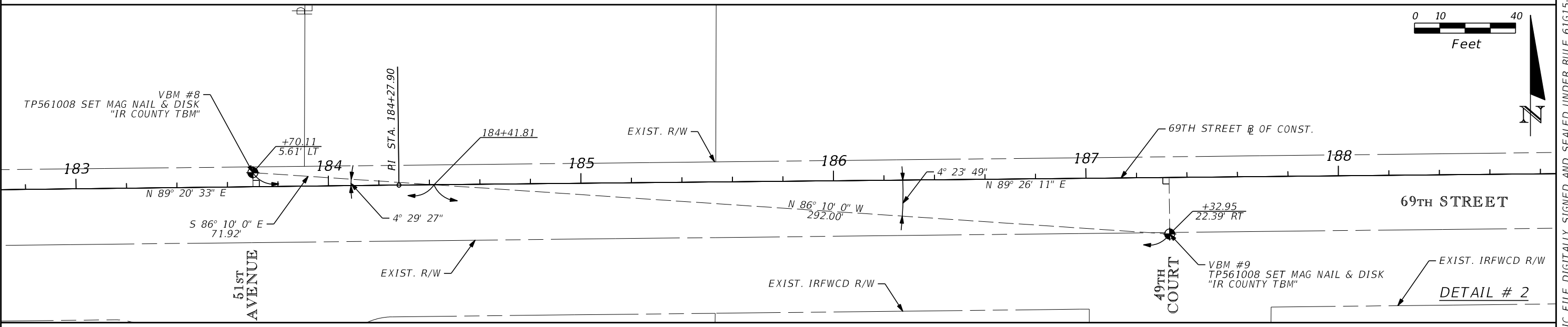
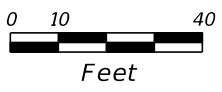
VBM #14
 STA. 234+47.59, 25.32' RT
 TP561027 SET MAG NAIL & DISK
 "IR COUNTY TRAVERSE PT."
 EL = 12.66' (NAVD88)
 N: 1230956.54
 E: 843017.66

VBM #15
 STA. 239+72.10, 25.47' LT
 GPS 1020
 12" ROUND P.I.P. C.M. WITH 3-1/4" ALUM DISK
 "GPS 1020 VERO BEACH SURVEY MARK DENI ASSOCIATES"
 EL = 10.52' (NAVD88)
 N: 1231002.76
 E: 843541.55

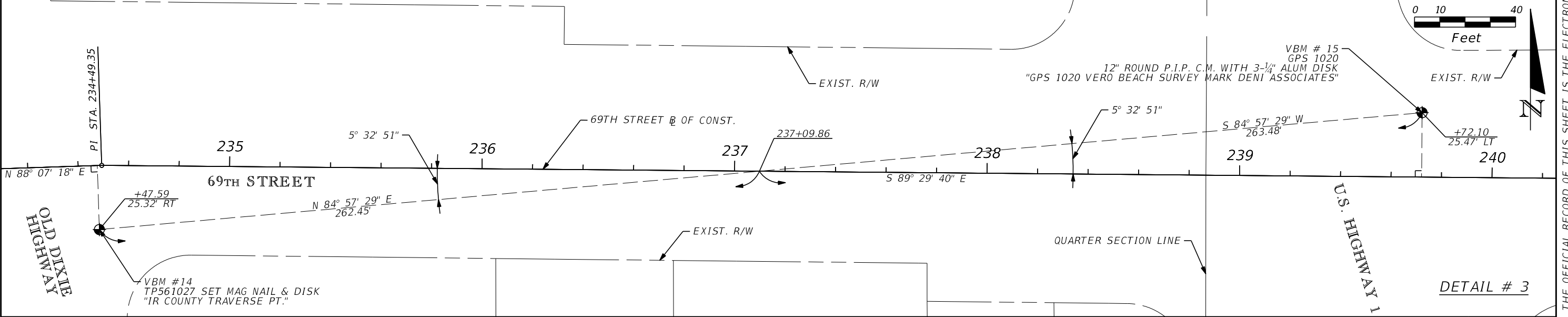
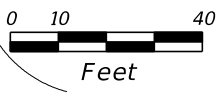
REVISIONS						Kimley»Horn	BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 69TH STREET FROM 66TH AVENUE TO SR5/US-1, RESURFACING	HORIZONTAL & VERTICAL CONTROL	SHEET NO. 7
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					



DETAIL # 1



DETAIL # 2



DETAIL # 3

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
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 P.E. LICENSE NUMBER 56939
 445 24th STREET, SUITE 200
 VERO BEACH, FL 32960
 (772) 794-4100
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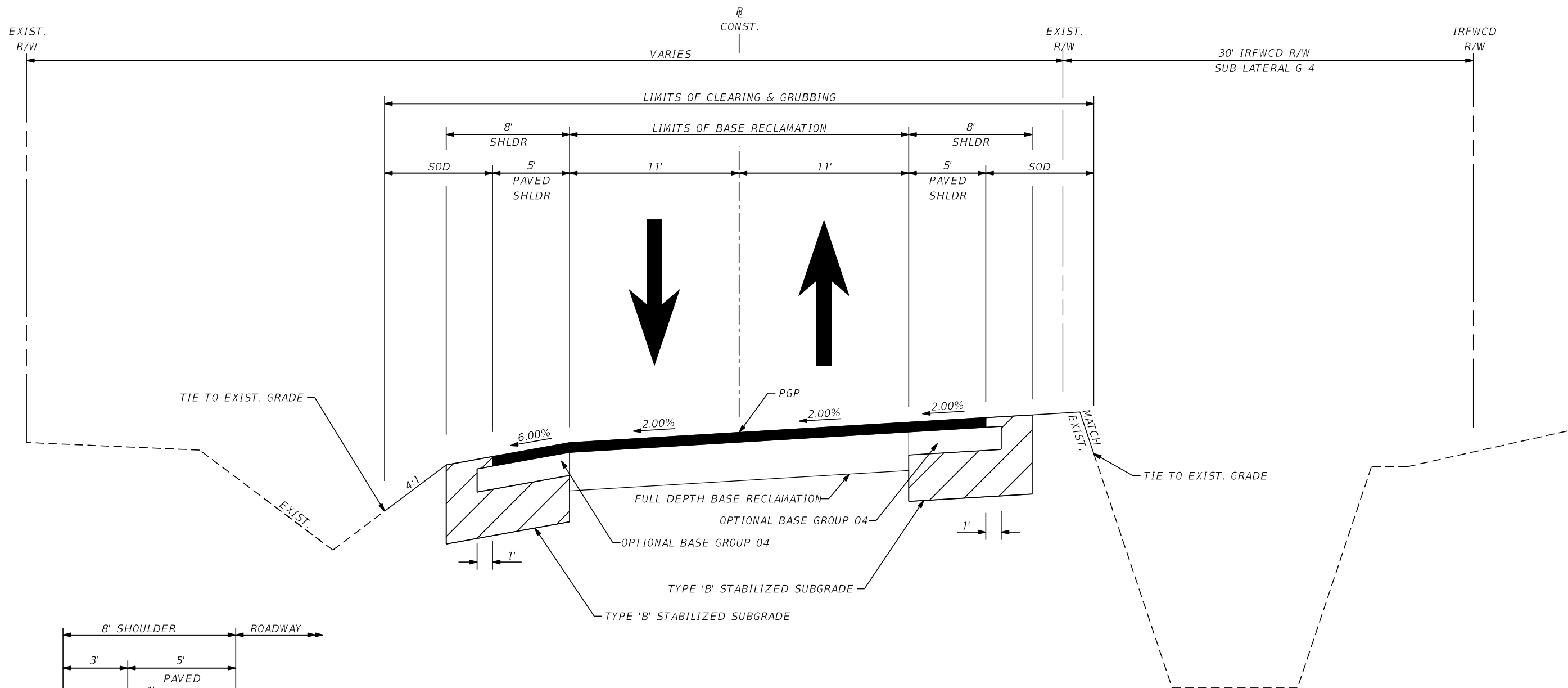
INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

HORIZONTAL & VERTICAL
 CONTROL DETAILS

SHEET
 NO.
 8

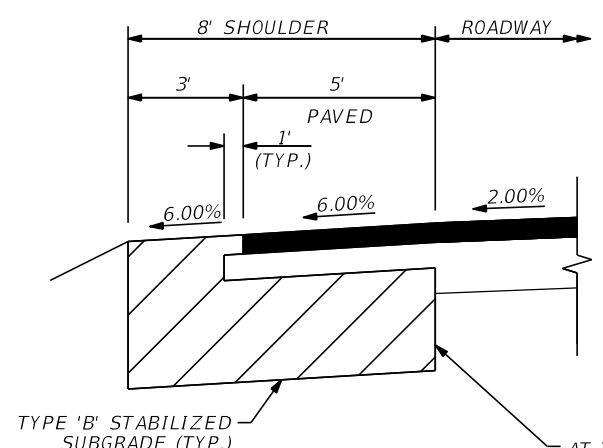
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I.R.CO. Proj. No. 1639



TIE TO EXIST. GRADE

TIE TO EXIST. GRADE



SHOULDER PAVEMENT DETAIL
N.T.S.

AT THE CONTRACTORS OPTION THE STABILIZED SUBGRADE MAY BE SUBSTITUTED WITH 6" CEMENTED COQUINA AT NO ADDITIONAL COMPENSATION

POSTED SPEED = 45 MPH
DESIGN SPEED = 45 MPH

PAVEMENT DESIGN

TYPE FC-9.5 FRICTION COURSE (TRAFFIC C, PG 76-22 W/ POLYMER) (1.0")
TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC C) (1.5")
FULL DEPTH BASE RECLAMATION (10")

PAVED SHOULDER DESIGN

TYPE FC-9.5 FRICTION COURSE (TRAFFIC C, PG 76-22 W/ POLYMER) (1.0")
TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC C) (1.5")
OPTIONAL BASE GROUP 04 (CEMENTED COQUINA, LBR 100) (6")
TYPE 'B' STABILIZATION (LBR 40) (12")

FULL DEPTH BASE RECLAMATION DESIGN

MATERIAL GRADATION - 100% PASSING 2-INCH SIEVE AND NO MORE THAN 20% PASSING NO. 200 SIEVE
BITUMINOUS STABILIZATING AGENT - ASPHALT EMULSION CSS-1H WITH 2.0 GAL/SQ-YD MINIMUM SPREAD RATE
CHEMICAL STABILIZATING AGENT - PORTLAND CEMENT WITH 14.0 LBS/SQ-YD MINIMUM SPREAD RATE
WATER CONTENT - OPTIMUM WATER CONTENT IS 5% BEFORE ADDING PORTLAND CEMENT, THE MOISTURE CONTENT OF THE RAP SHOULD BE BETWEEN 8 TO 10% TO FULLY HYDRATE THE PORTLAND CEMENT

69TH STREET
STA. 118+13.62 TO STA. 150+28.55

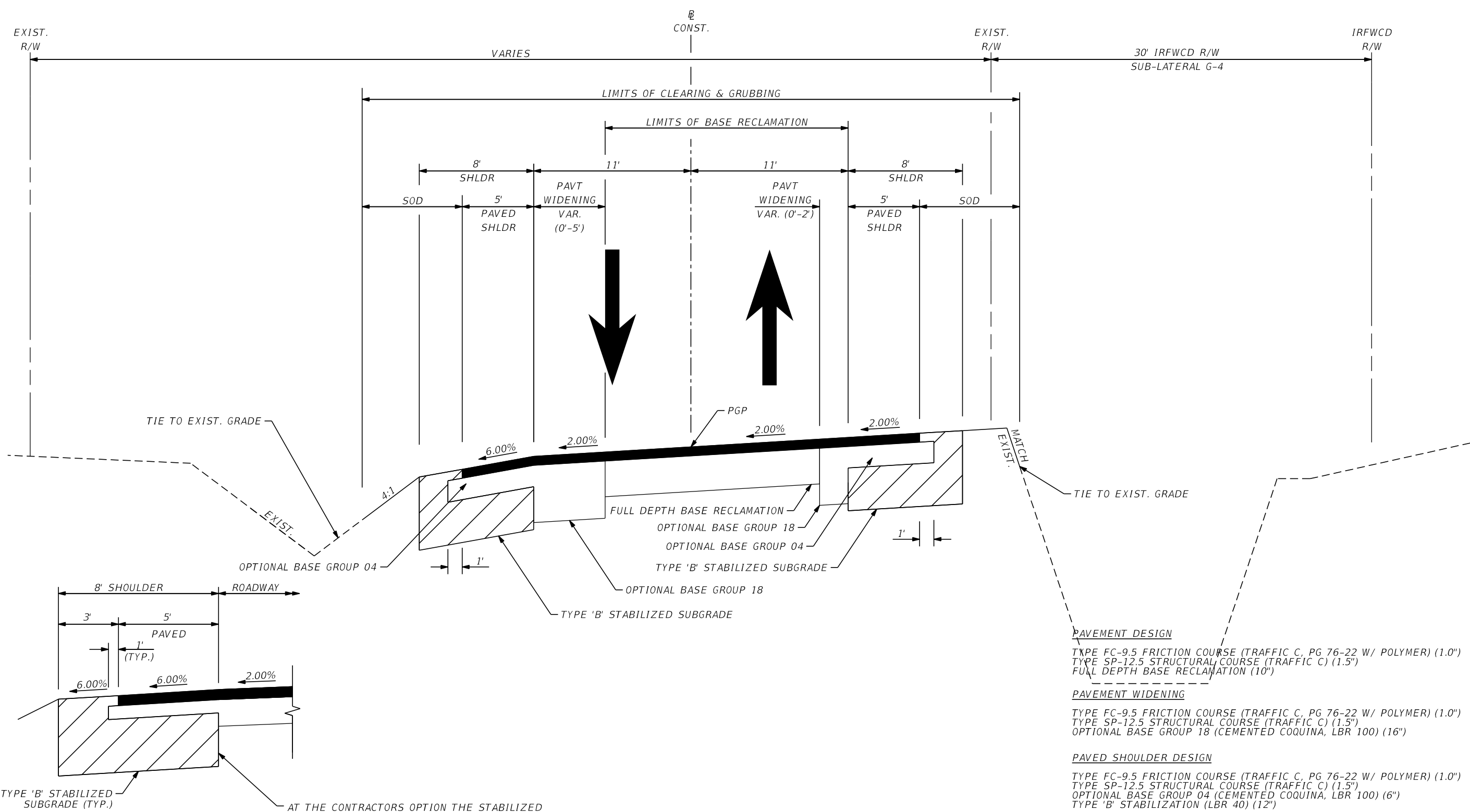
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 696

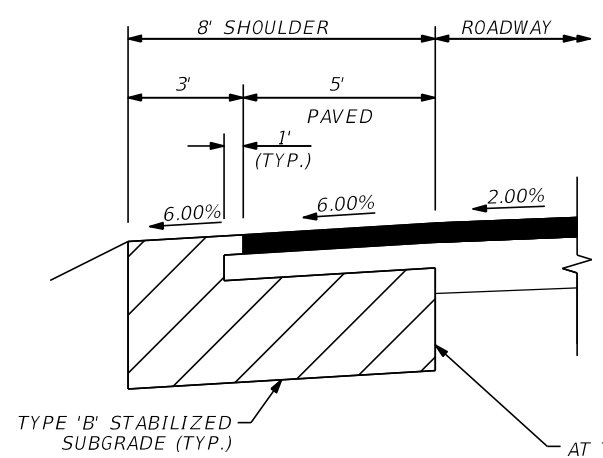
INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
69TH STREET FROM 66TH AVENUE
TO SR5/US-1, RESURFACING

TYPICAL SECTION

SHEET NO.
9



69TH STREET
STA. 168+50.39 TO STA. 217+07.44



SHOULDER PAVEMENT DETAIL
 N.T.S.

POSTED SPEED = 45 MPH
 DESIGN SPEED = 45 MPH

- PAVEMENT DESIGN**
 TYPE FC-9.5 FRICTION COURSE (TRAFFIC C, PG 76-22 W/ POLYMER) (1.0")
 TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC C) (1.5")
 FULL DEPTH BASE RECLAMATION (10")
- PAVEMENT WIDENING**
 TYPE FC-9.5 FRICTION COURSE (TRAFFIC C, PG 76-22 W/ POLYMER) (1.0")
 TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC C) (1.5")
 OPTIONAL BASE GROUP 18 (CEMENTED COQUINA, LBR 100) (16")
- PAVED SHOULDER DESIGN**
 TYPE FC-9.5 FRICTION COURSE (TRAFFIC C, PG 76-22 W/ POLYMER) (1.0")
 TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC C) (1.5")
 OPTIONAL BASE GROUP 04 (CEMENTED COQUINA, LBR 100) (6")
 TYPE 'B' STABILIZATION (LBR 40) (12")
- FULL DEPTH BASE RECLAMATION DESIGN**
 MATERIAL GRADATION - 100% PASSING 2-INCH SIEVE AND NO MORE THAN 20% PASSING NO. 200 SIEVE
 BITUMINOUS STABILIZING AGENT - ASPHALT EMULSION CSS-1H WITH 2.0 GAL/SQ-YD MINIMUM SPREAD RATE
 CHEMICAL STABILIZING AGENT - PORTLAND CEMENT WITH 14.0 LBS/SQ-YD MINIMUM SPREAD RATE
 WATER CONTENT - OPTIMUM WATER CONTENT IS 5% BEFORE ADDING PORTLAND CEMENT, THE MOISTURE CONTENT OF THE RAP SHOULD BE BETWEEN 8 TO 10% TO FULLY HYDRATE THE PORTLAND CEMENT

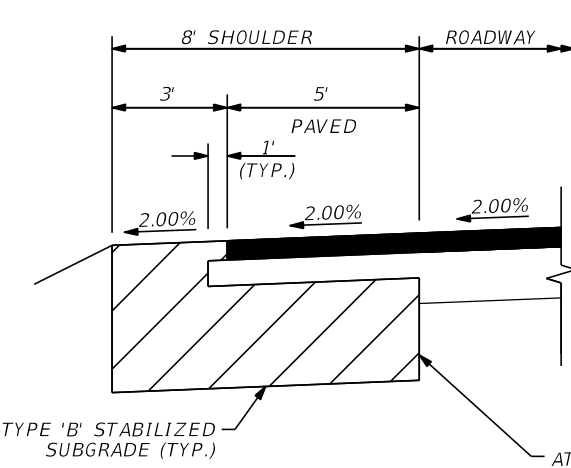
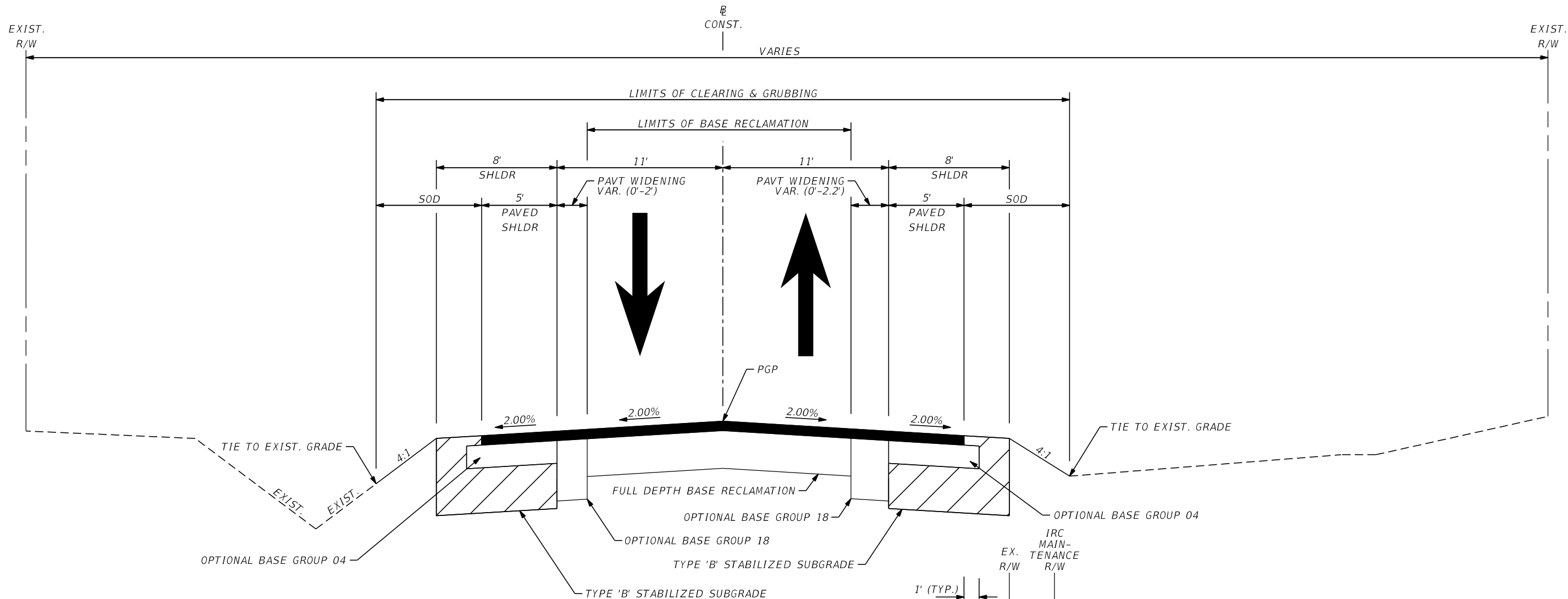
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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 P.E. LICENSE NUMBER 56939
 445 24th STREET, SUITE 200
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 (772) 794-4100
 REGISTRY No. 696

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
69TH STREET FROM 66TH AVENUE
TO SR5/US-1, RESURFACING

TYPICAL SECTION

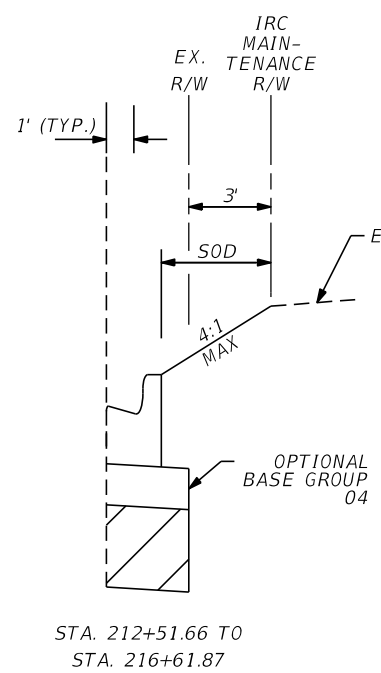
SHEET NO.
10



SHOULDER PAVEMENT DETAIL
N.T.S.

AT THE CONTRACTORS OPTION THE STABILIZED SUBGRADE MAY BE SUBSTITUTED WITH 6" CEMENTED COQUINA AT NO ADDITIONAL COMPENSATION

POSTED SPEED = 45 MPH
DESIGN SPEED = 45 MPH



STA. 212+51.66 TO
STA. 216+61.87

- PAVEMENT DESIGN**
TYPE FC-9.5 FRICTION COURSE (TRAFFIC C, PG 76-22 W/ POLYMER) (1.0")
TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC C) (1.5")
FULL DEPTH BASE RECLAMATION (10")
- PAVEMENT WIDENING**
TYPE FC-9.5 FRICTION COURSE (TRAFFIC C, PG 76-22 W/ POLYMER) (1.0")
TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC C) (1.5")
OPTIONAL BASE GROUP 18 (CEMENTED COQUINA, LBR 100) (16")
- PAVED SHOULDER DESIGN**
TYPE FC-9.5 FRICTION COURSE (TRAFFIC C, PG 76-22 W/ POLYMER) (1.0")
TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC C) (1.5")
OPTIONAL BASE GROUP 04 (CEMENTED COQUINA, LBR 100) (6")
TYPE 'B' STABILIZATION (LBR 40) (12")
- FULL DEPTH BASE RECLAMATION DESIGN**
MATERIAL GRADATION - 100% PASSING 2-INCH SIEVE AND NO MORE THAN 20% PASSING NO. 200 SIEVE
BITUMINOUS STABILIZING AGENT - ASPHALT EMULSION CSS-1H WITH 2.0 GAL/SQ-YD MINIMUM SPREAD RATE
CHEMICAL STABILIZING AGENT - PORTLAND CEMENT WITH 14.0 LBS/SQ-YD MINIMUM SPREAD RATE
WATER CONTENT - OPTIMUM WATER CONTENT IS 5% BEFORE ADDING PORTLAND CEMENT, THE MOISTURE CONTENT OF THE RAP SHOULD BE BETWEEN 8 TO 10% TO FULLY HYDRATE THE PORTLAND CEMENT

69TH STREET
STA. 234+20.64 TO STA. 238+69.85

REVISIONS						Kimley»Horn BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 69TH STREET FROM 66TH AVENUE TO SR5/US-1, RESURFACING	TYPICAL SECTION	SHEET NO. 11
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				



SHEET 13	SHEET 14	SHEET 15	SHEET 16	SHEET 17	SHEET 18	SHEET 19	SHEET 20	SHEET 21	SHEET 22	SHEET 23	SHEET 24	SHEET 25	SHEET 26	SHEET 27	SHEET 28	SHEET 29	SHEET 30	SHEET 31	SHEET 32	SHEET 33	SHEET 34	SHEET 35	SHEET 36
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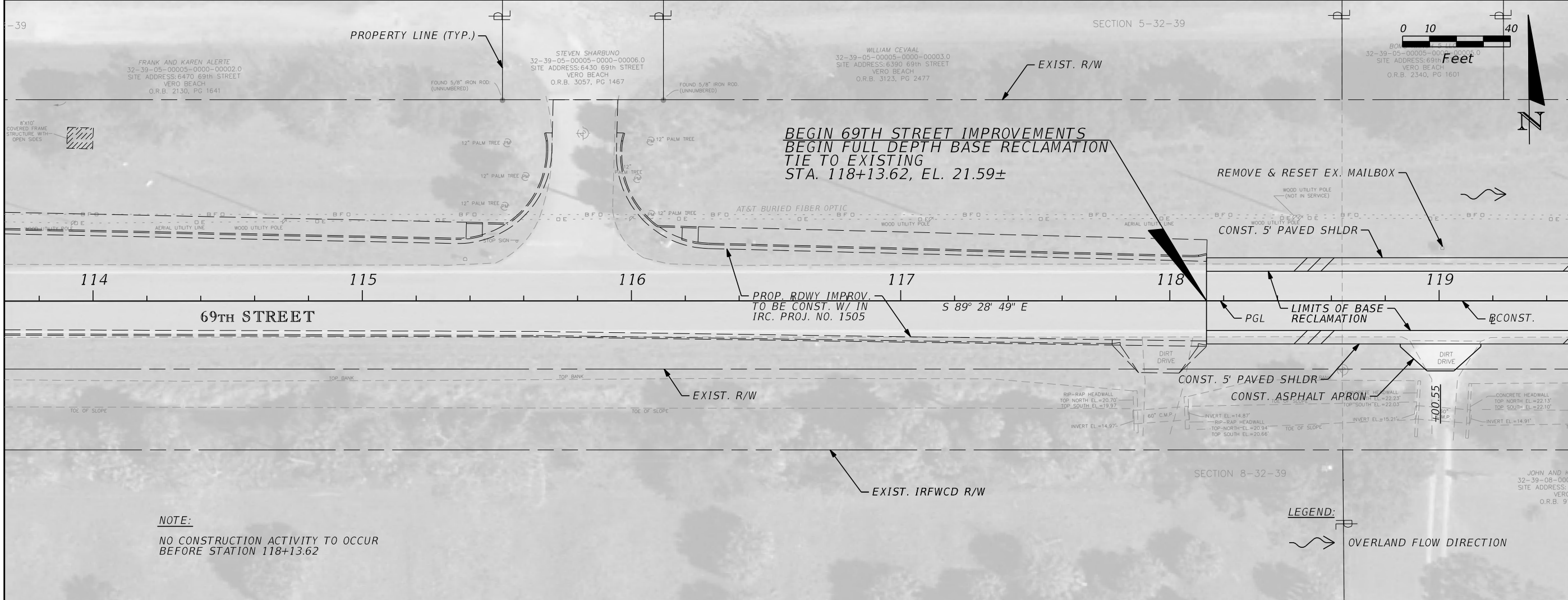
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

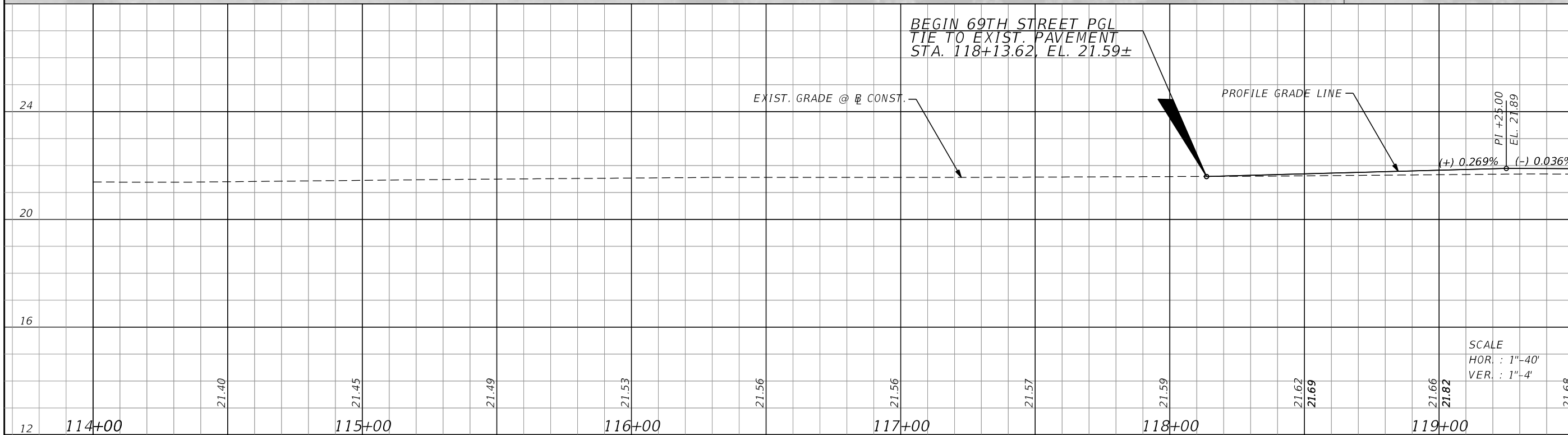
PLAN LAYOUT SHEET

SHEET NO.
 12



NOTE:
NO CONSTRUCTION ACTIVITY TO OCCUR
BEFORE STATION 118+13.62

LEGEND:
 OVERLAND FLOW DIRECTION



SCALE
HOR. : 1"=40'
VER. : 1"=4'

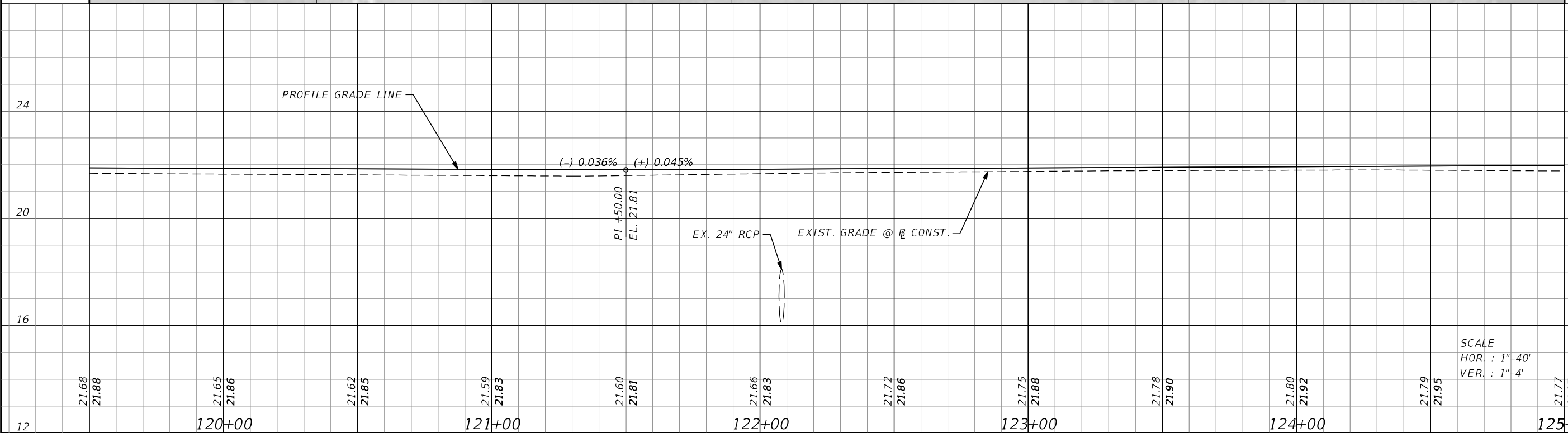
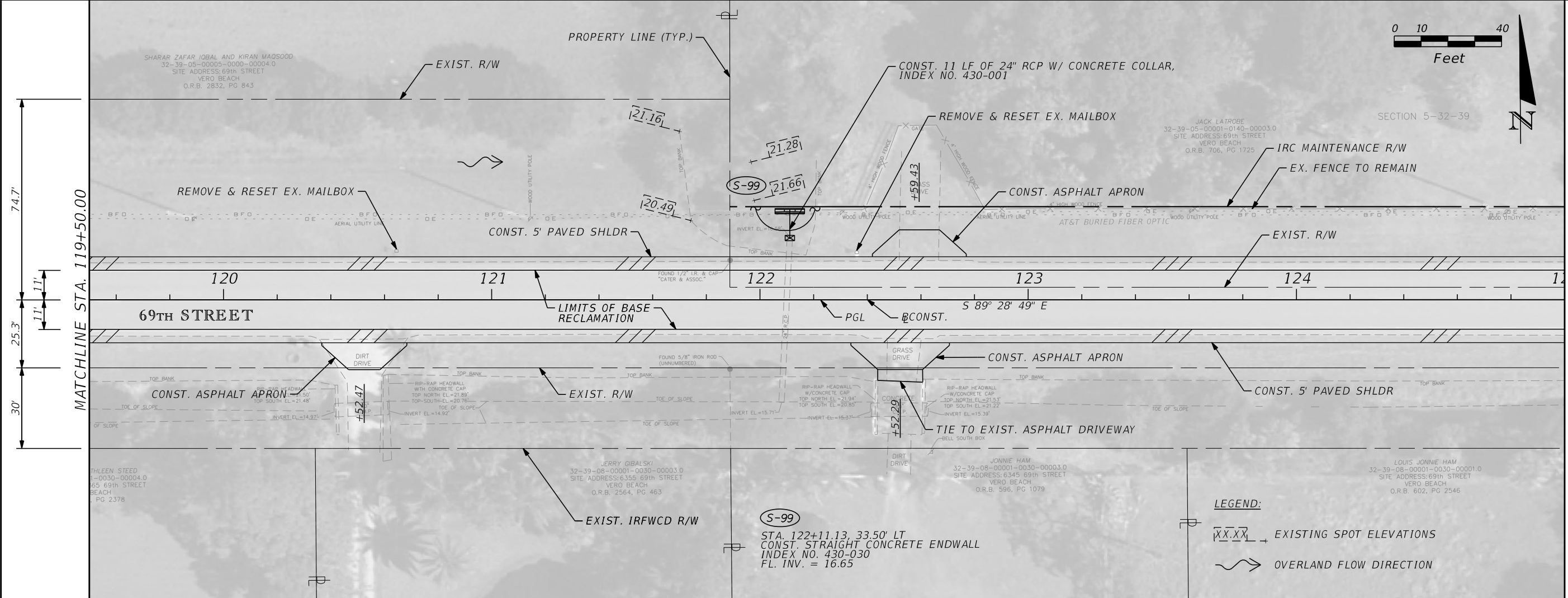
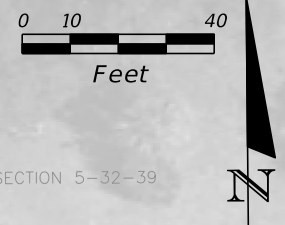
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

PLAN & PROFILE

SHEET NO.
13



REVISIONS			
DATE	BY	DESCRIPTION	

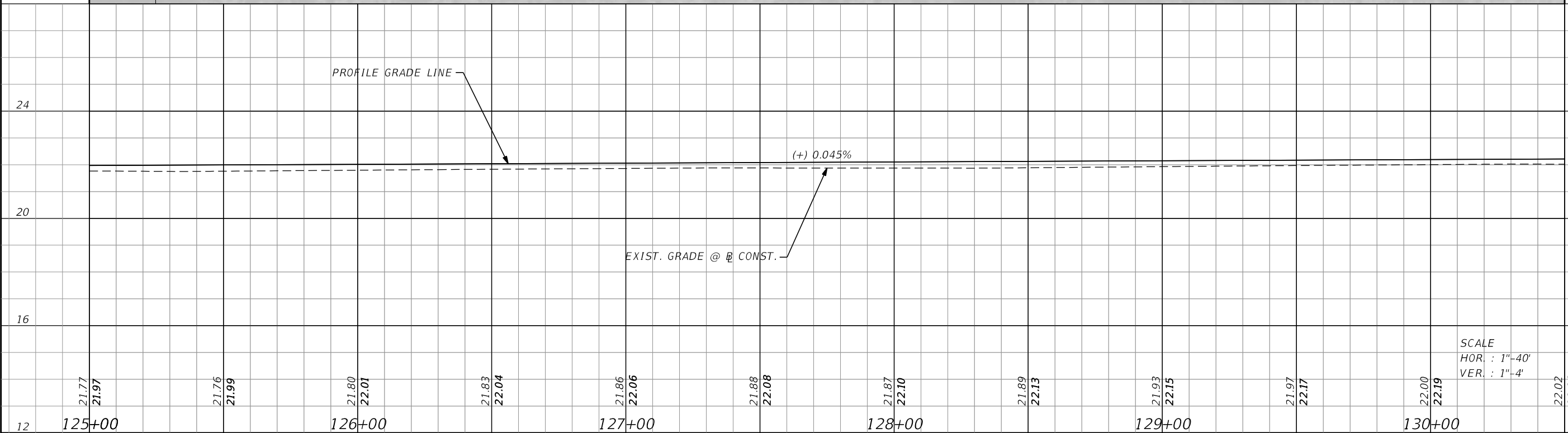
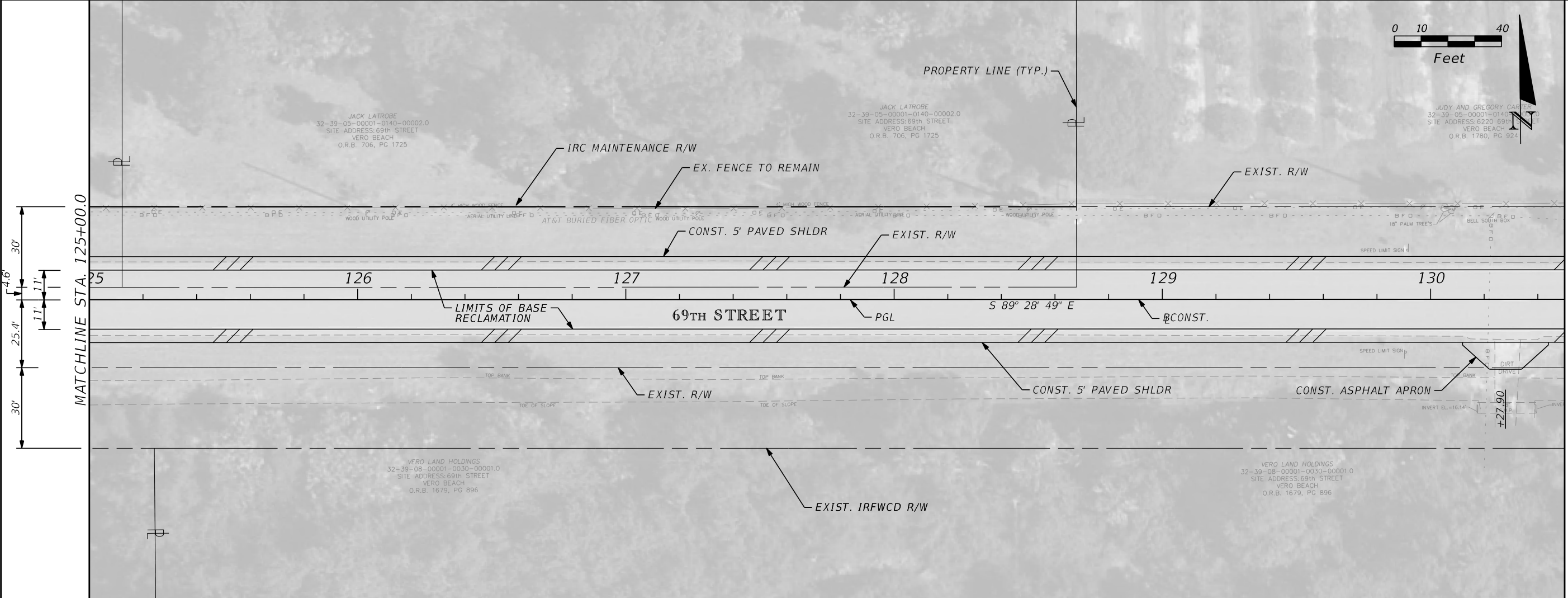
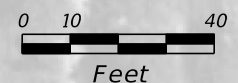
Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
 445 24th STREET, SUITE 200
 VERO BEACH, FL 32960
 (772) 794-4100
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

SCALE
 HOR. : 1"=40'
 VER. : 1"=4'

PLAN & PROFILE

SHEET NO.
 14



DATE		BY		DESCRIPTION	

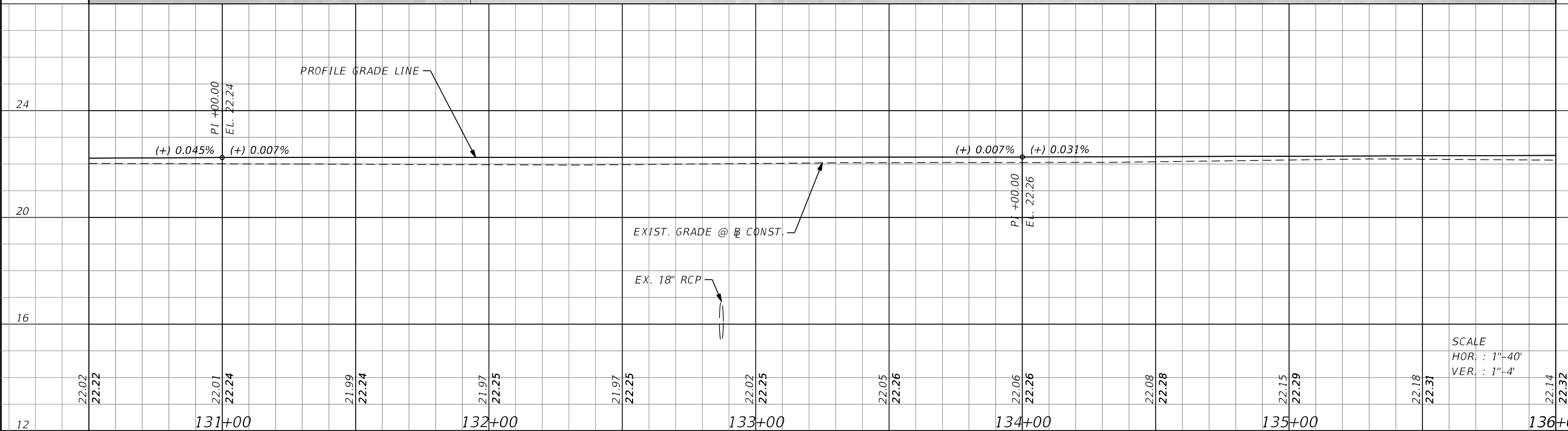
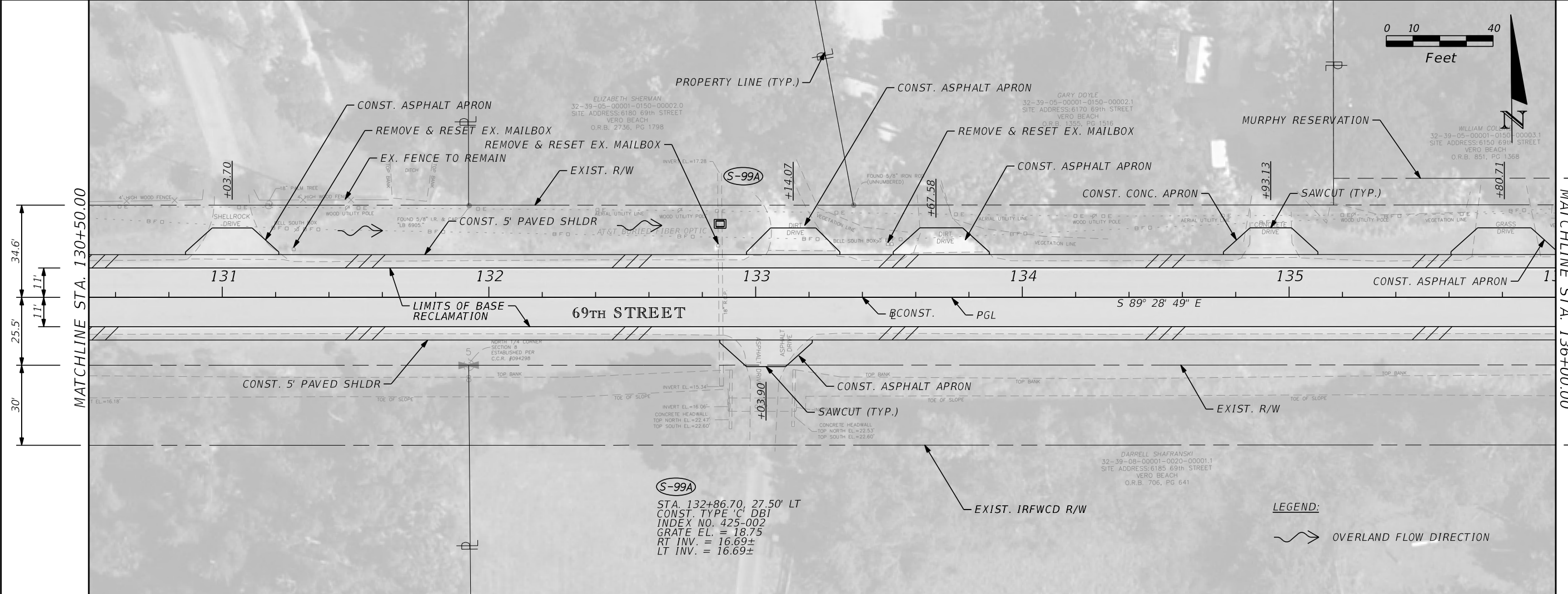
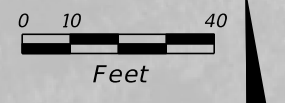
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 P.E. LICENSE NUMBER 56939
 445 24th STREET, SUITE 200
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INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
69TH STREET FROM 66TH AVENUE
TO SR5/US-1, RESURFACING

PLAN & PROFILE

SHEET NO.
15

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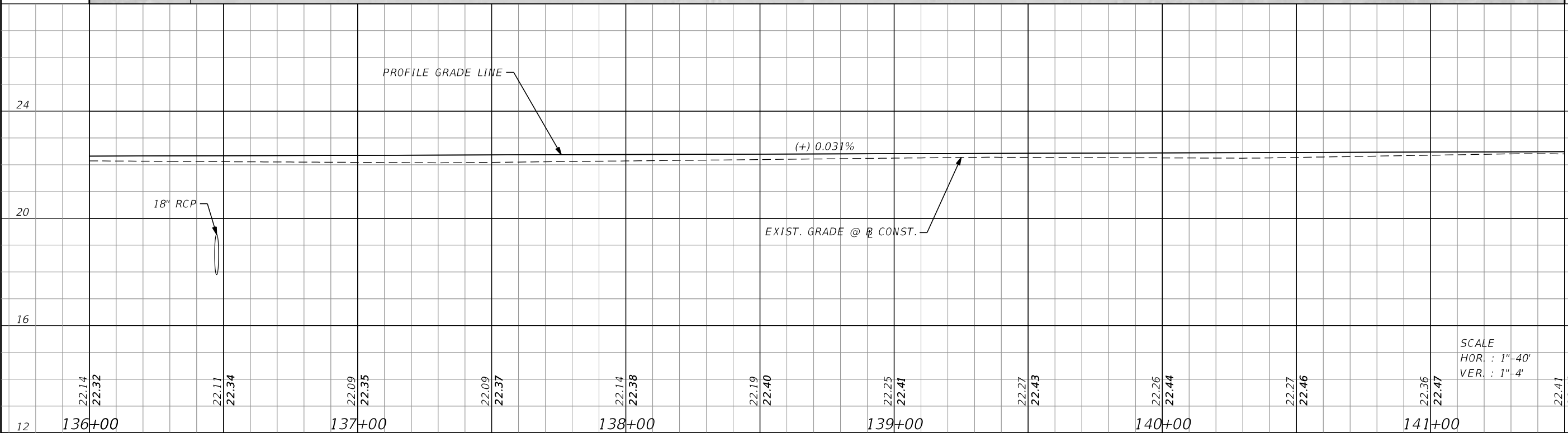
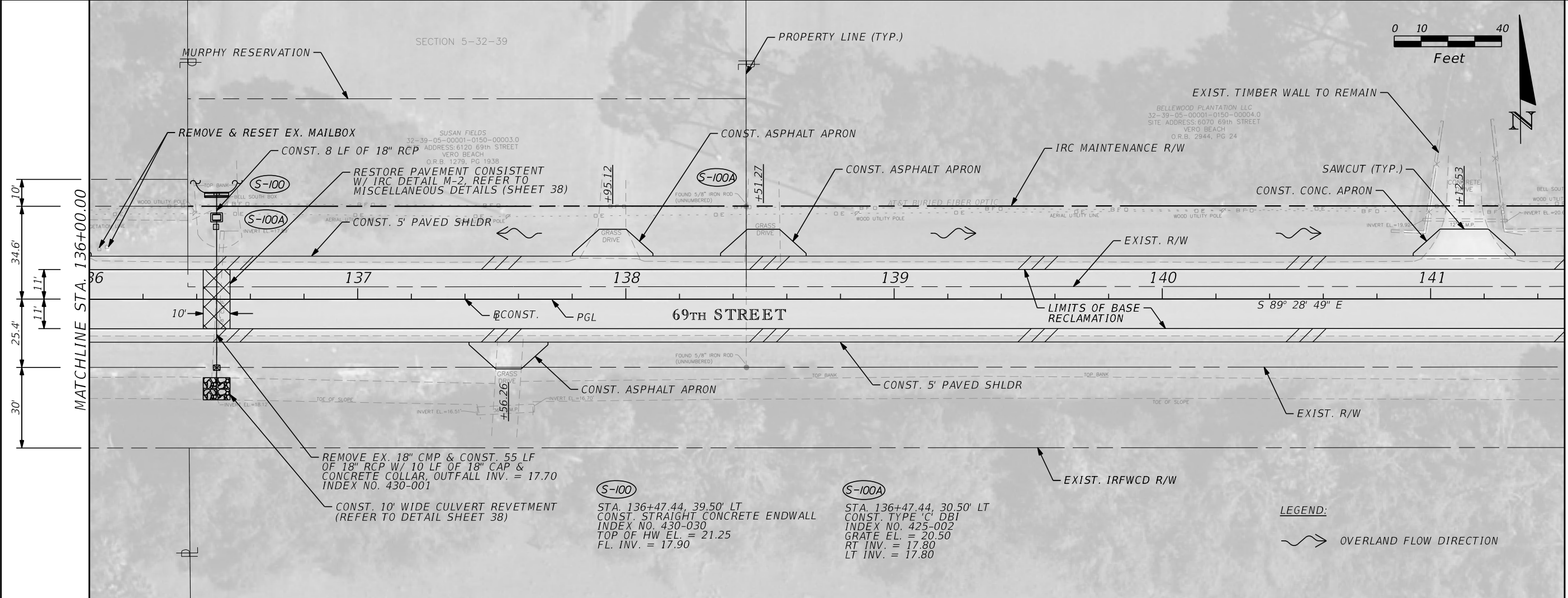


DATE		BY		DESCRIPTION	

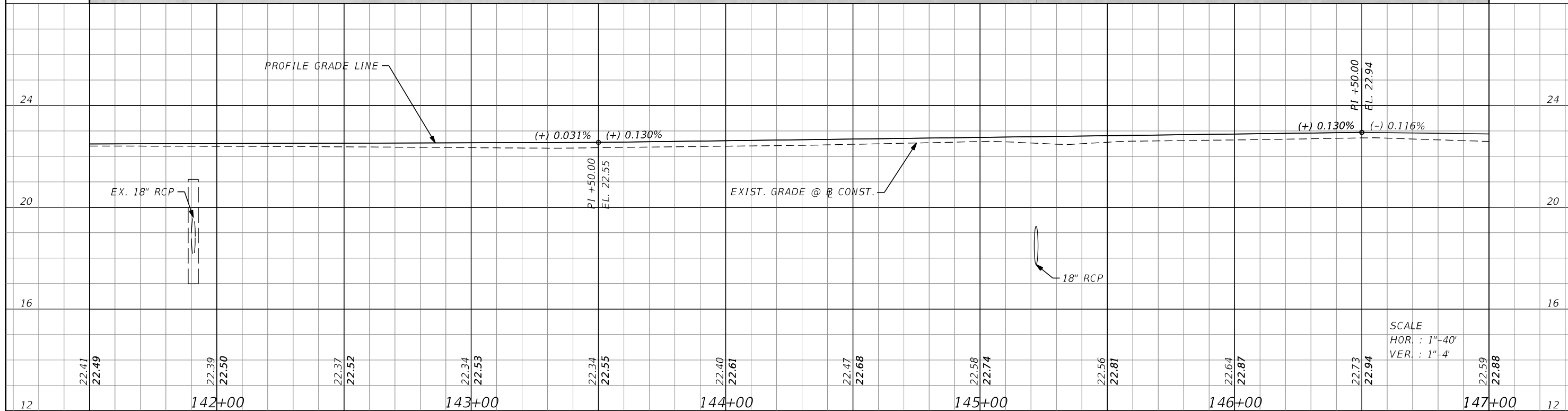
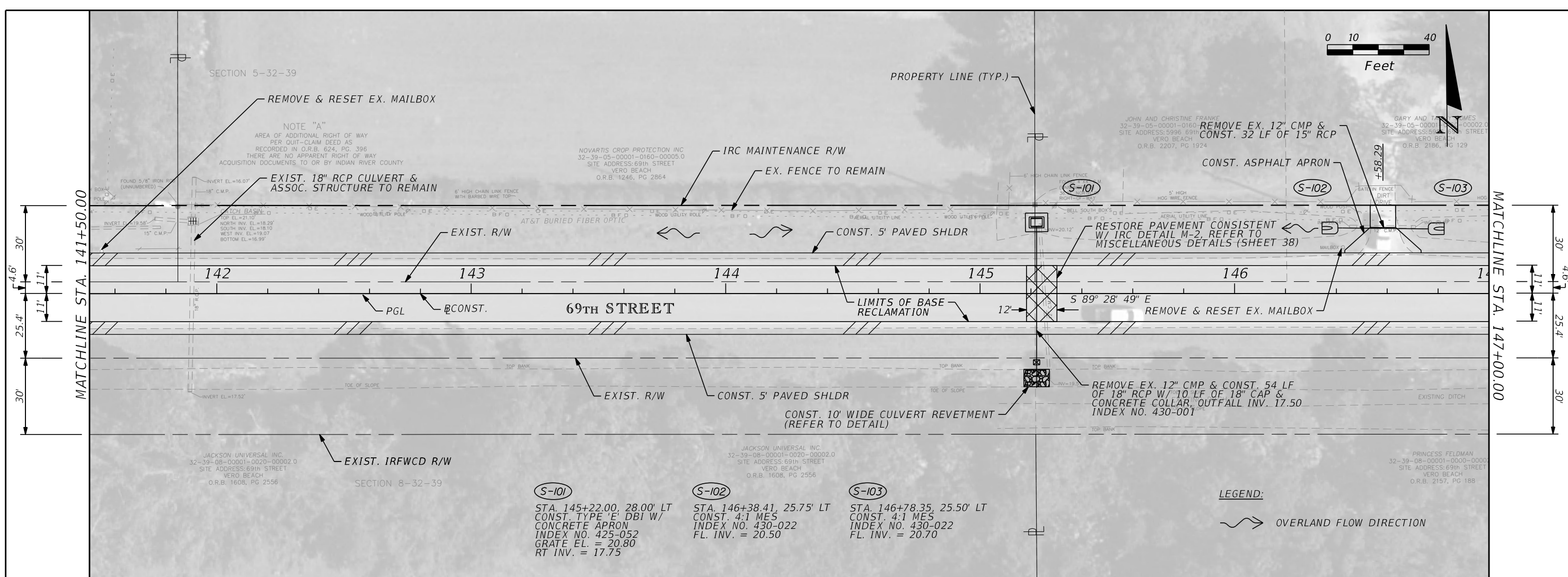
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22.02	22.25	
22.05	22.26	
22.06	22.26	
22.08	22.28	
22.15	22.29	
22.18	22.31	
22.14	22.32	

Kimley»Horn BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696		INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 69TH STREET FROM 66TH AVENUE TO SR5/US-1, RESURFACING		PLAN & PROFILE	
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I.R.CO. Proj. No. 1639
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REVISIONS				Kimley»Horn <small>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696</small>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 69TH STREET FROM 66TH AVENUE TO SR5/US-1, RESURFACING	PLAN & PROFILE	SHEET NO. 17
DATE	BY	DESCRIPTION	DATE				



DATE		BY		DESCRIPTION	

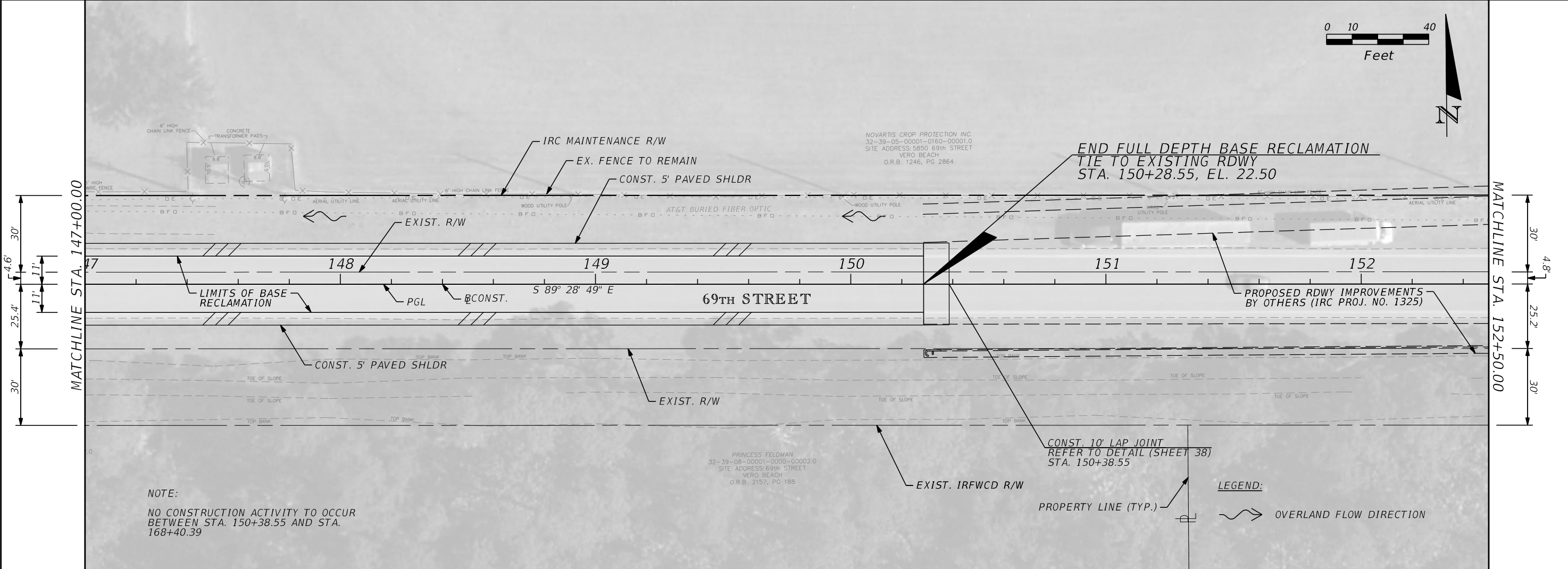
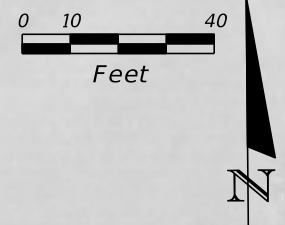
Kimley»Horn

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P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 696

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
69TH STREET FROM 66TH AVENUE
TO SR5/US-1, RESURFACING

PLAN & PROFILE

SHEET NO.
18



DATE		BY		DESCRIPTION	

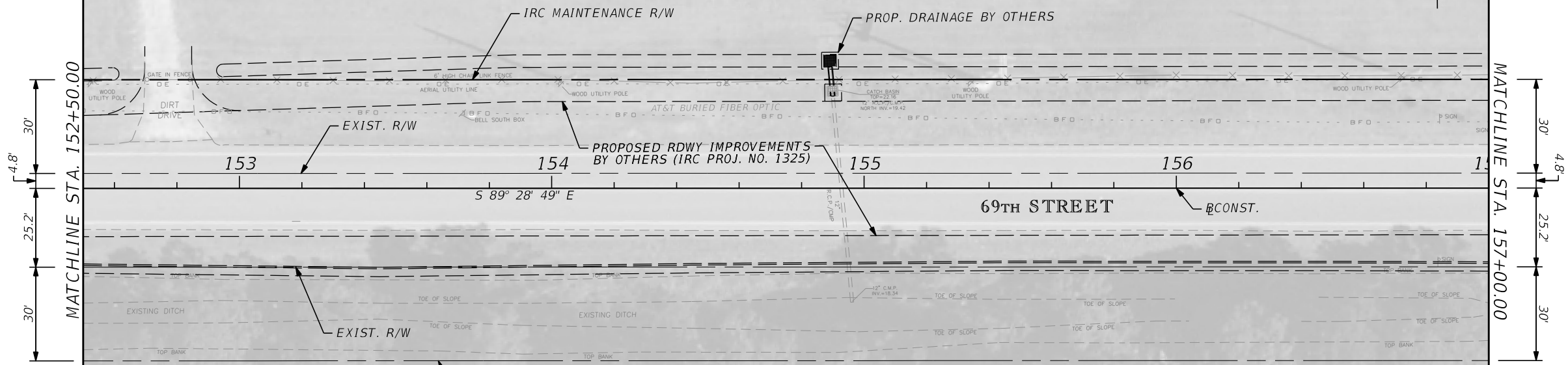
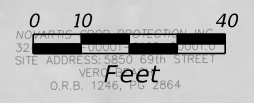
Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
 445 24th STREET, SUITE 200
 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

SCALE
 HOR. : 1"=40'
 VER. : 1"=4'

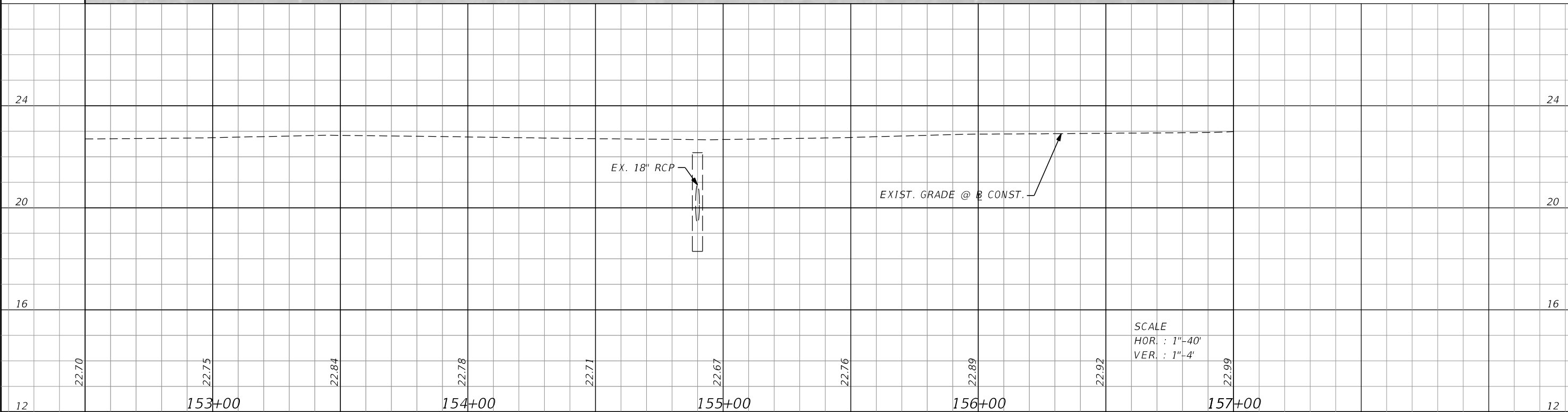
PLAN & PROFILE

SHEET NO.
19



PRINCESS FELDMAN
 32-39-08-0001-0000-0001.0
 SITE ADDRESS: 323908 58th AVENUE
 VERO BEACH
 O.R.B. 2157, PG 188

NOTE:
 NO CONSTRUCTION ACTIVITY TO OCCUR
 BETWEEN STA. 150+38.55 AND STA.
 168+40.39



SCALE
 HOR. : 1"=40'
 VER. : 1"=4'

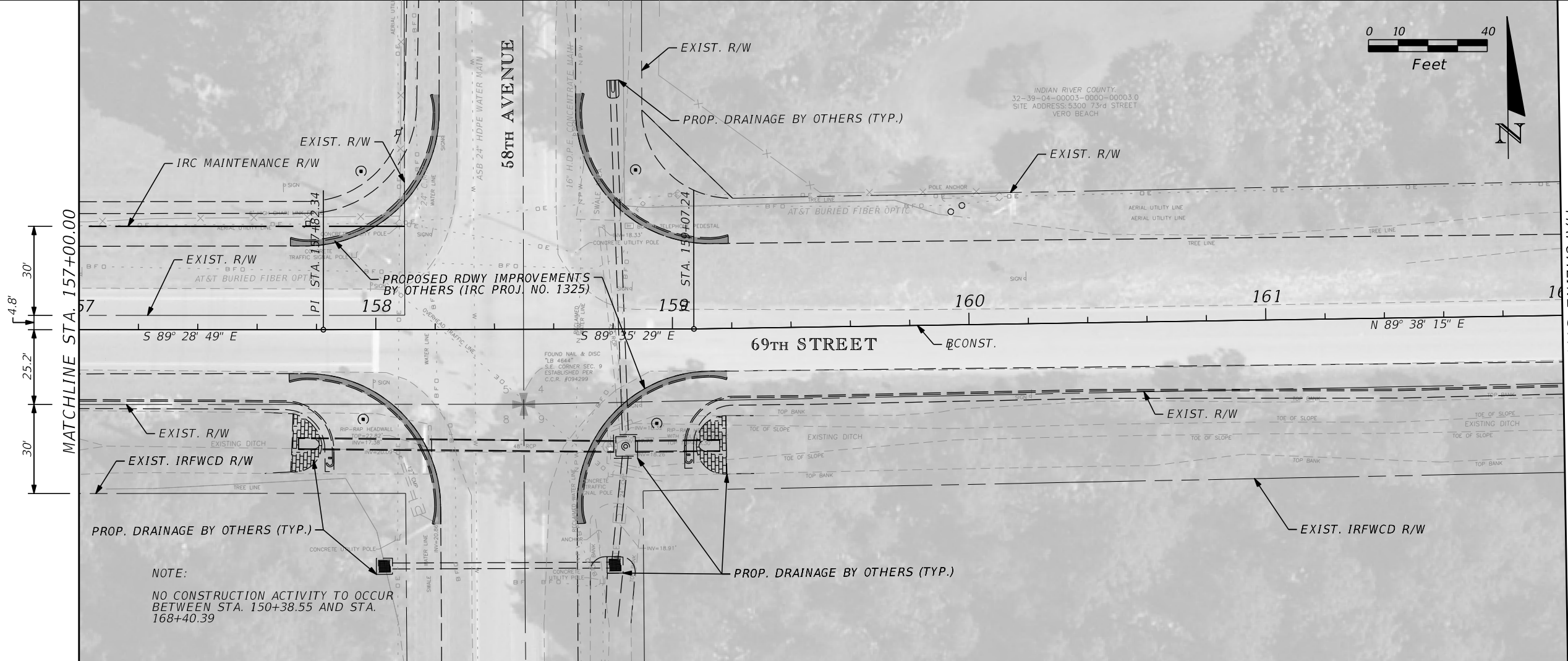
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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 P.E. LICENSE NUMBER 56939
 445 24th STREET, SUITE 200
 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

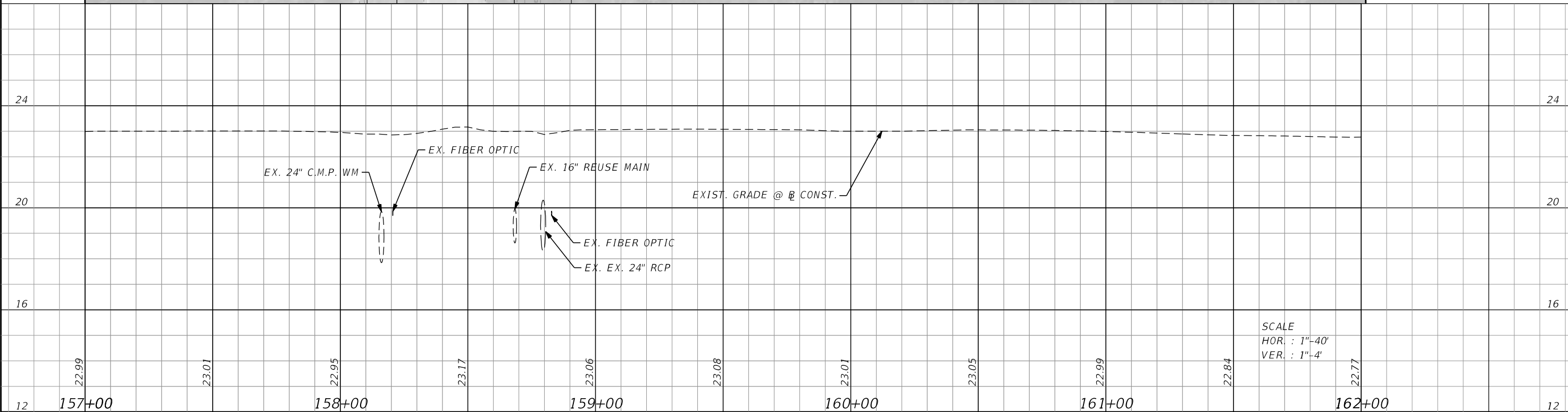
INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

PLAN & PROFILE

SHEET NO.
 20



NOTE:
NO CONSTRUCTION ACTIVITY TO OCCUR
BETWEEN STA. 150+38.55 AND STA.
168+40.39



SCALE
HOR : 1"=40'
VER : 1"=4'

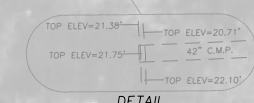
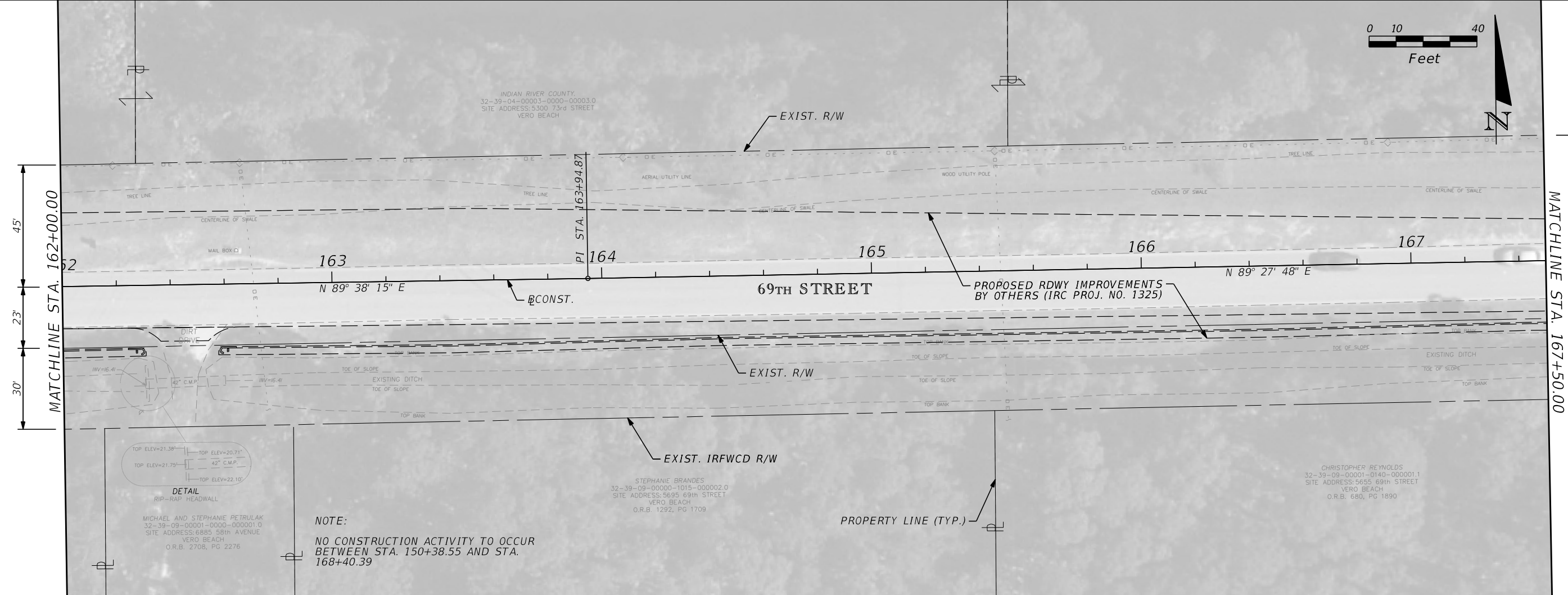
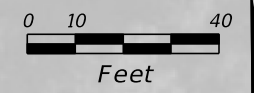
REVISIONS			
DATE	BY	DESCRIPTION	

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BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 696

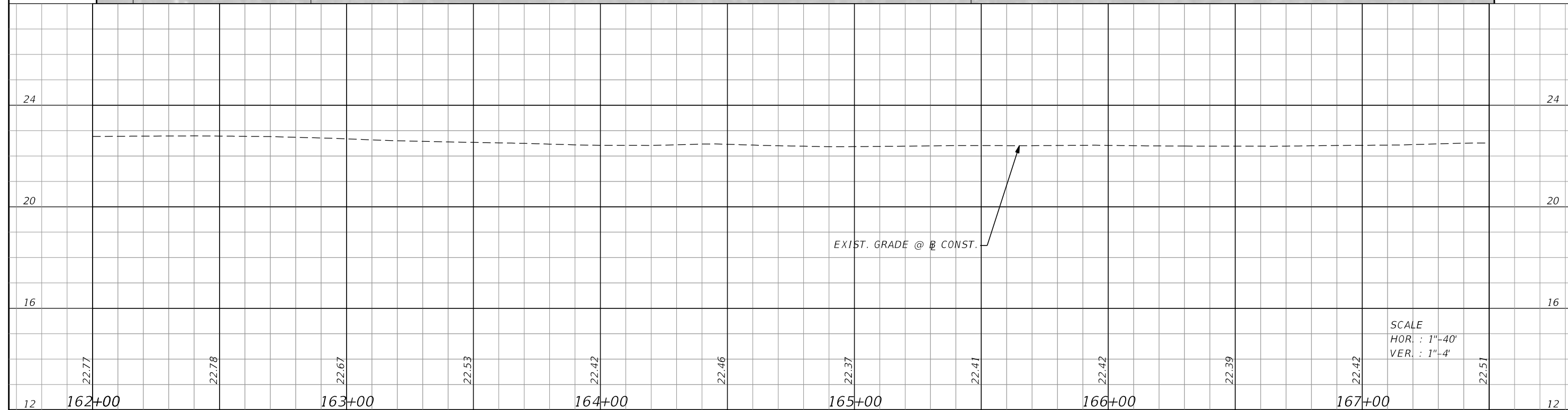
INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
69TH STREET FROM 66TH AVENUE
TO SR5/US-1, RESURFACING

PLAN & PROFILE

SHEET NO.
21



NOTE:
NO CONSTRUCTION ACTIVITY TO OCCUR
BETWEEN STA. 150+38.55 AND STA.
168+40.39



SCALE
HOR. : 1"=40'
VER. : 1"=4'

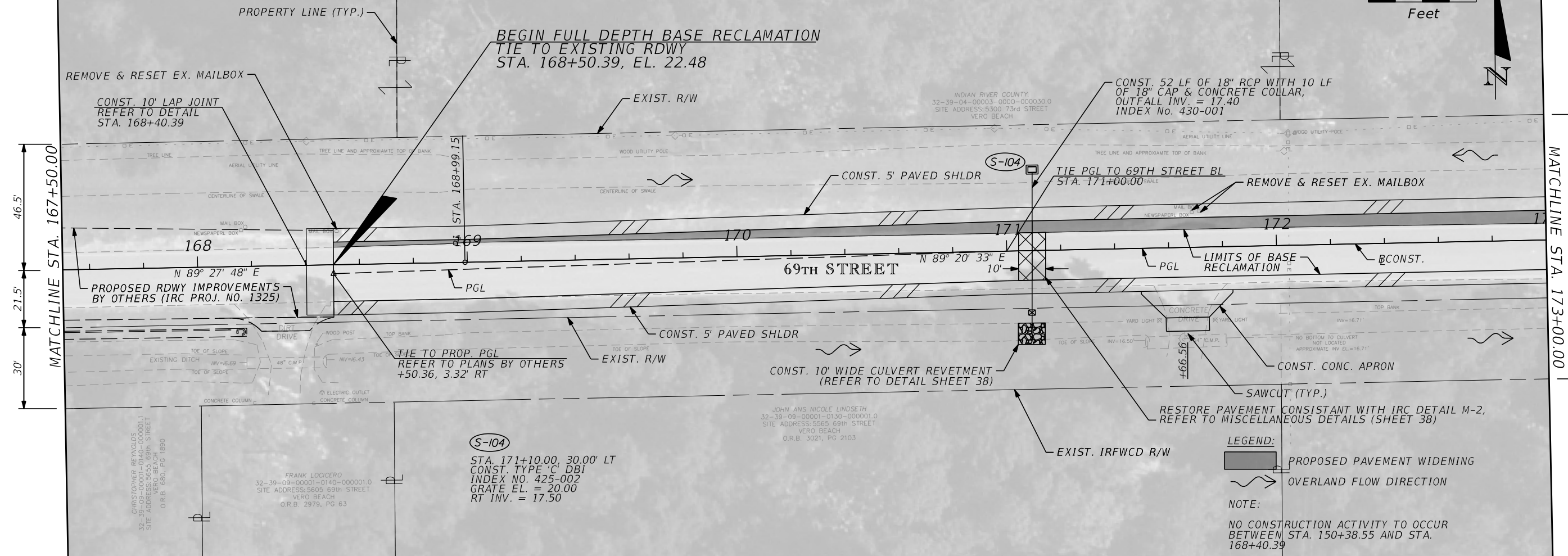
REVISIONS			
DATE	BY	DESCRIPTION	

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BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
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INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
69TH STREET FROM 66TH AVENUE
TO SR5/US-1, RESURFACING

PLAN & PROFILE

SHEET NO.
22



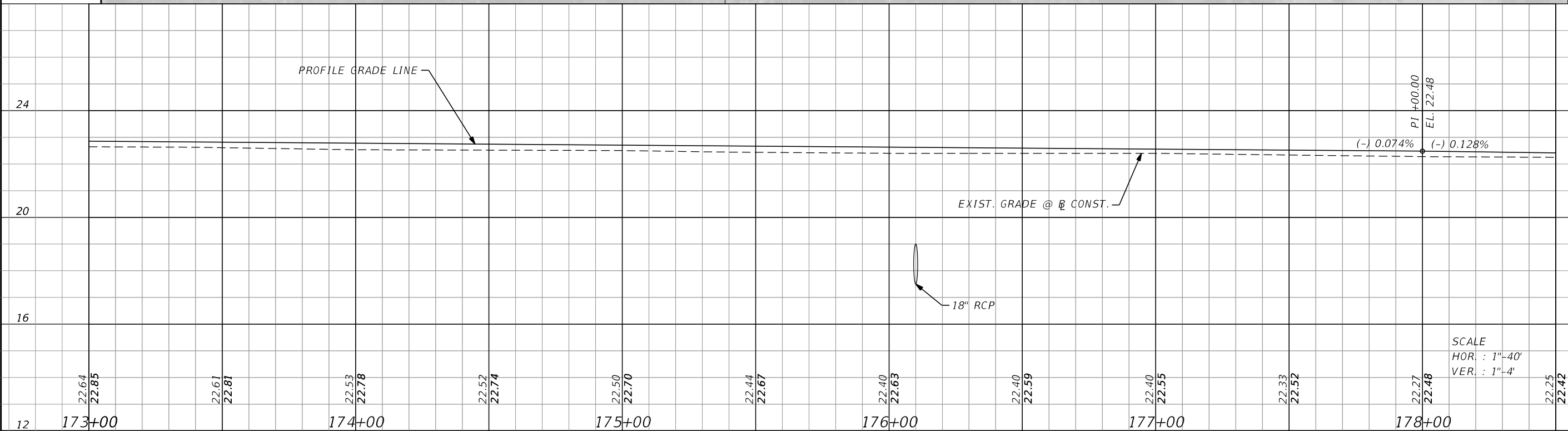
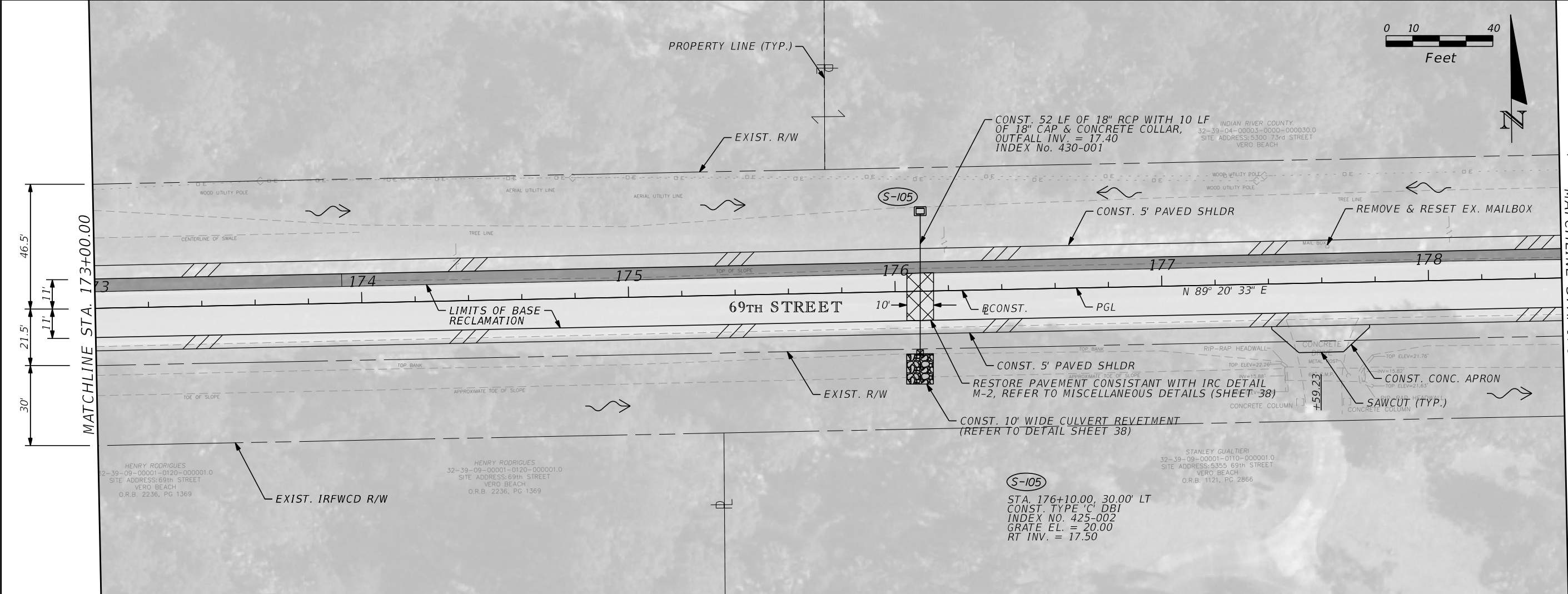
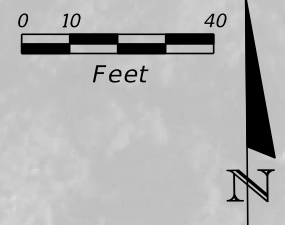
REVISIONS			
DATE	BY	DESCRIPTION	

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P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
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INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
69TH STREET FROM 66TH AVENUE
TO SR5/US-1, RESURFACING

SHEET NO.
23

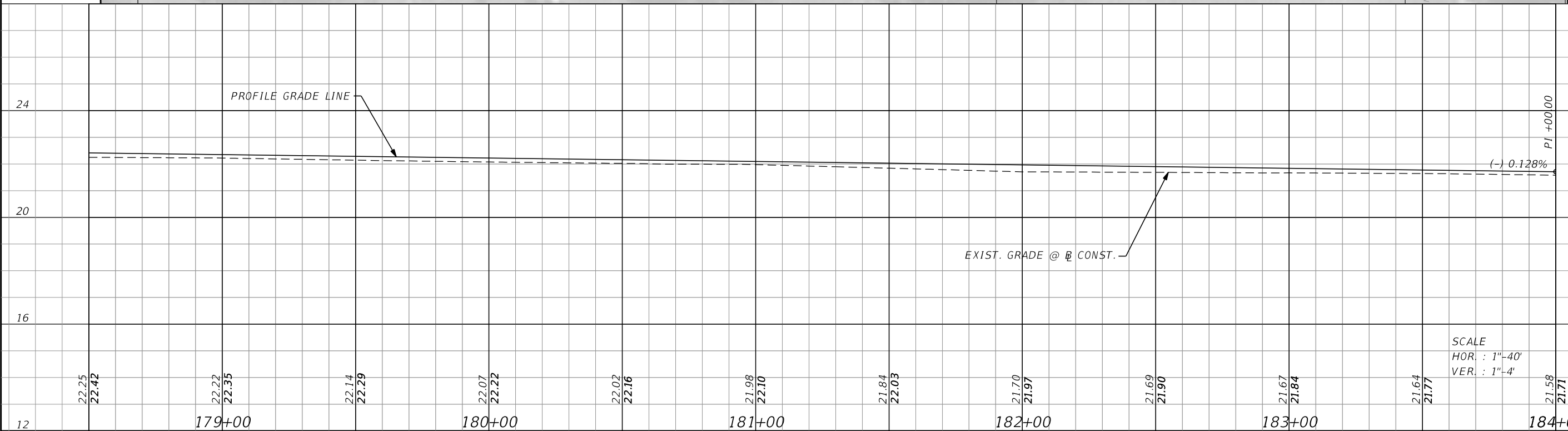
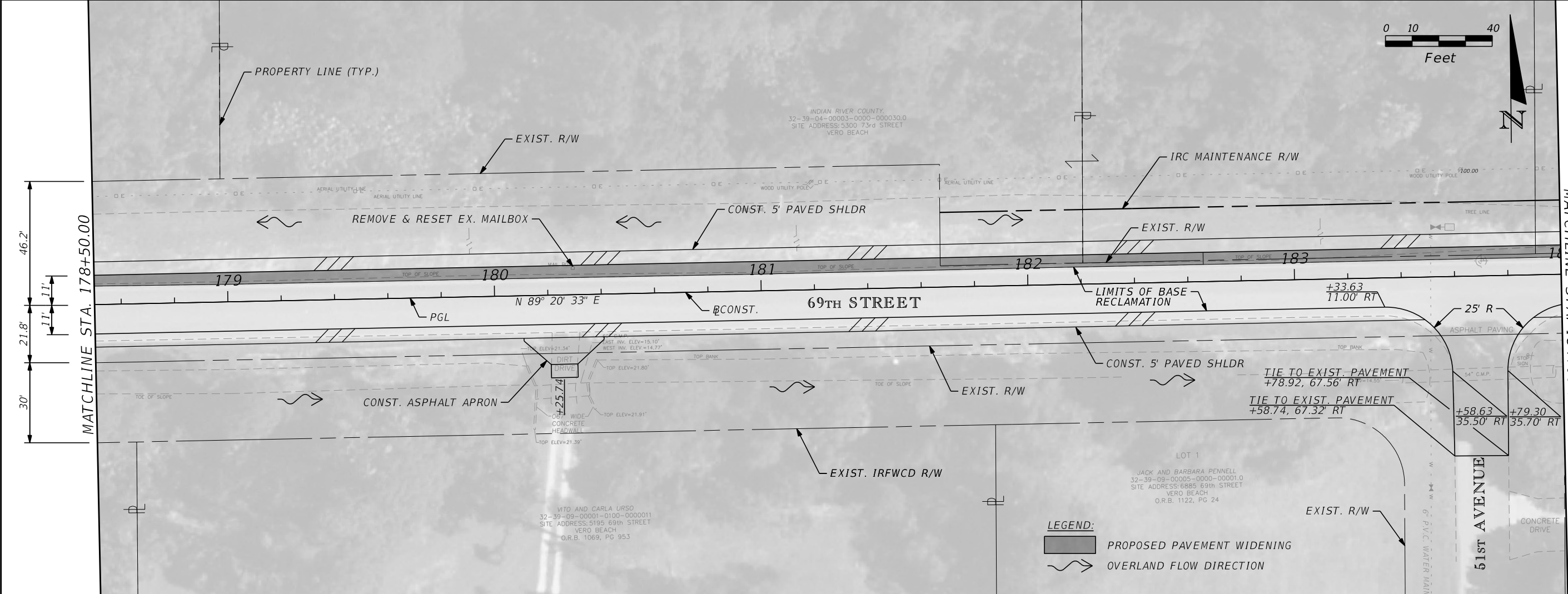
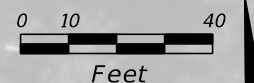


DATE		BY		DESCRIPTION	

DATE	BY	DESCRIPTION
1/17/2022	Rebecca.Pastir	2:43:34 PM

Kimley»Horn BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 69TH STREET FROM 66TH AVENUE TO SR5/US-1, RESURFACING	PLAN & PROFILE	SHEET NO. 24
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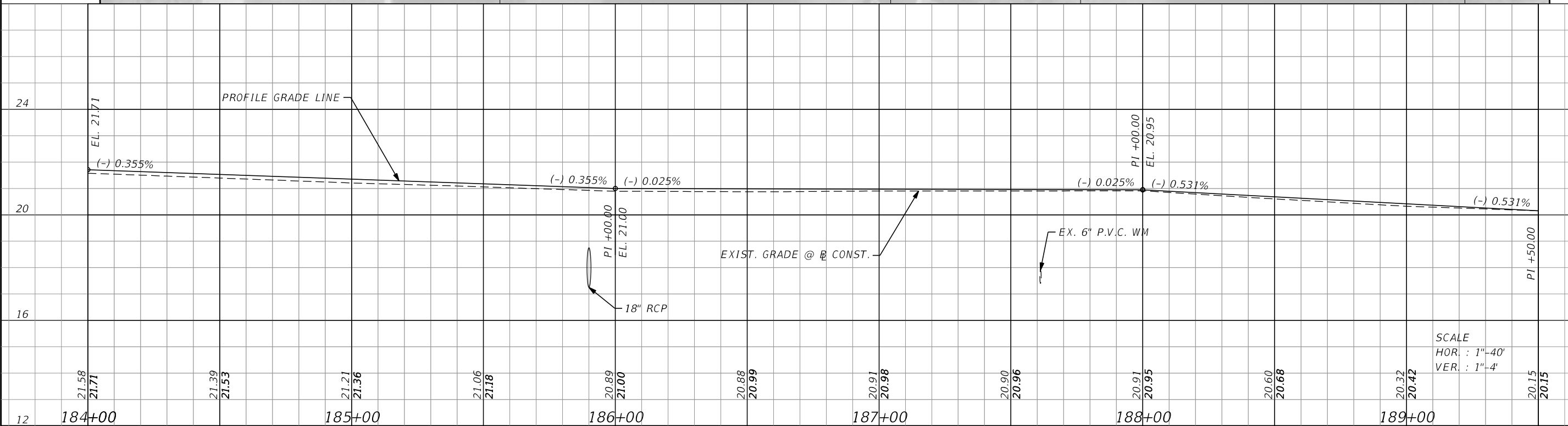
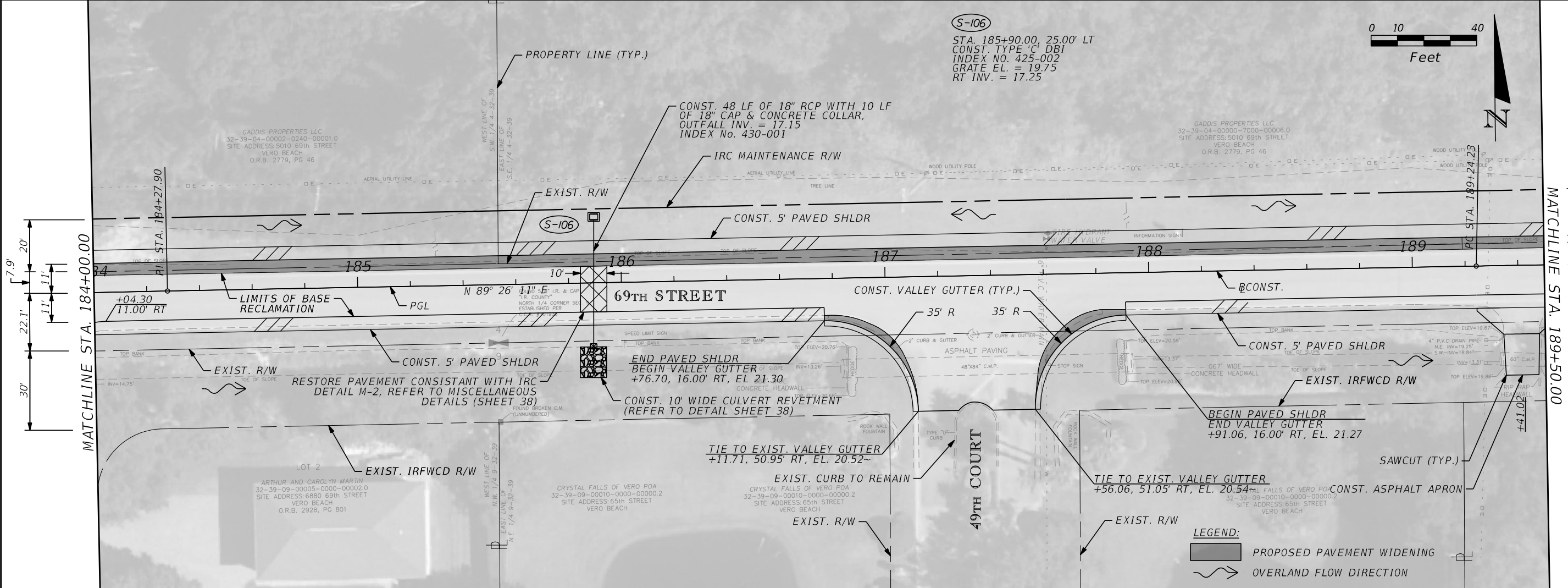
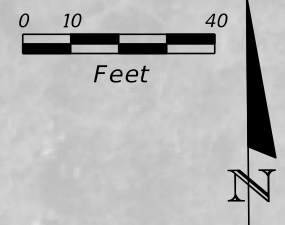
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 P.E. LICENSE NUMBER 56939
 445 24th STREET, SUITE 200
 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

PLAN & PROFILE

SHEET NO. 25

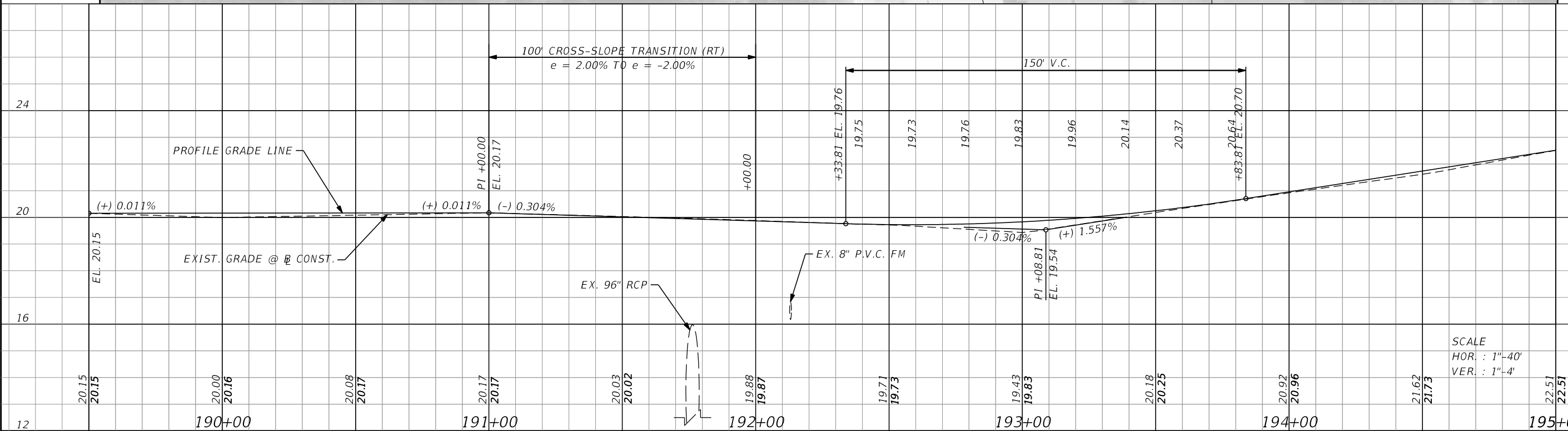
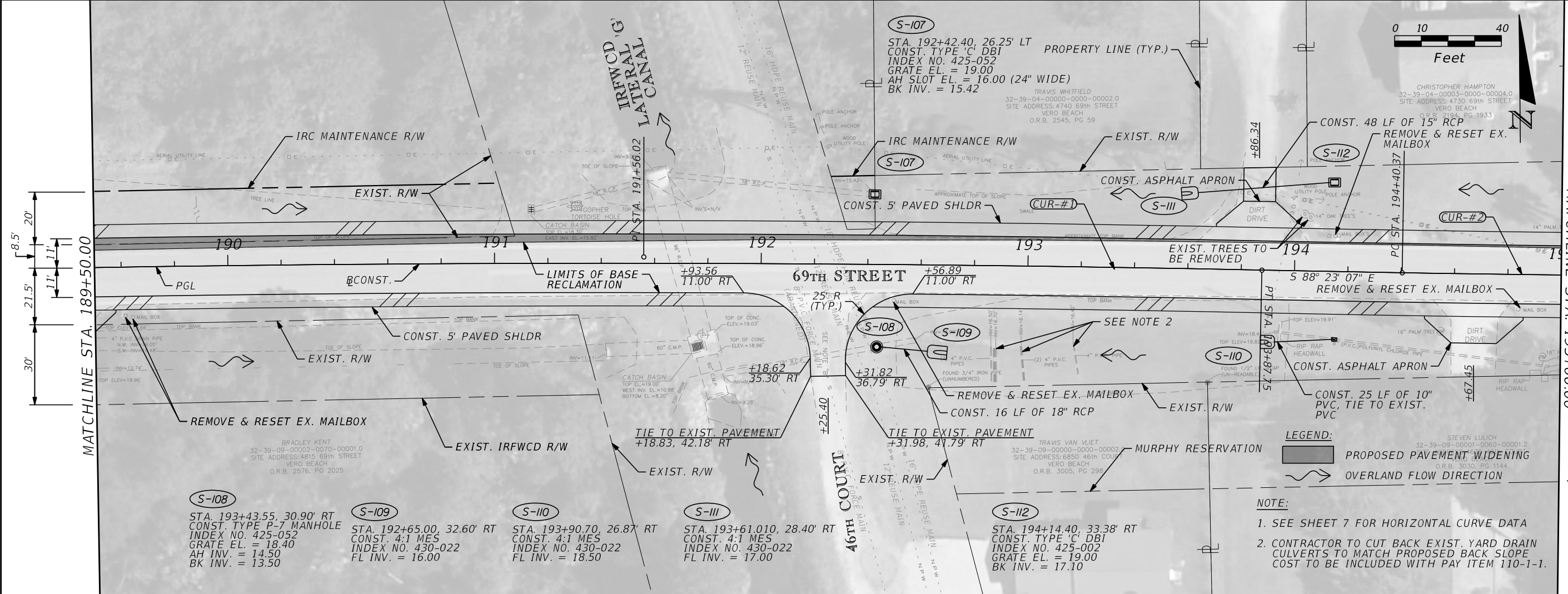


REVISIONS			
DATE	BY	DESCRIPTION	DATE

Kimley»Horn
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 P.E. LICENSE NUMBER 56939
 445 24th STREET, SUITE 200
 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

PLAN & PROFILE
 SHEET NO. 26

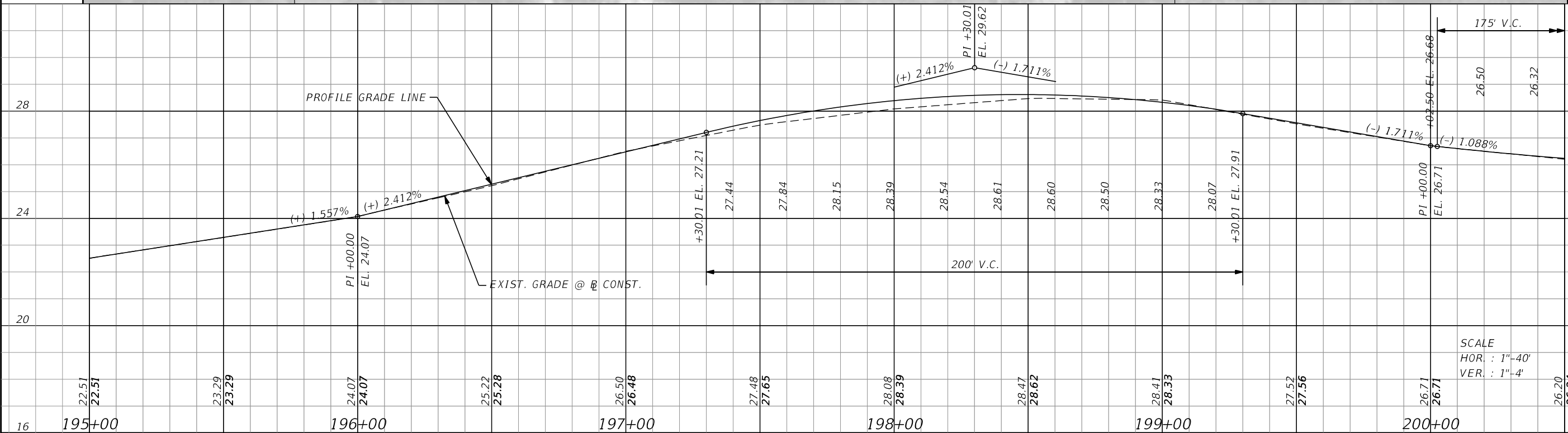
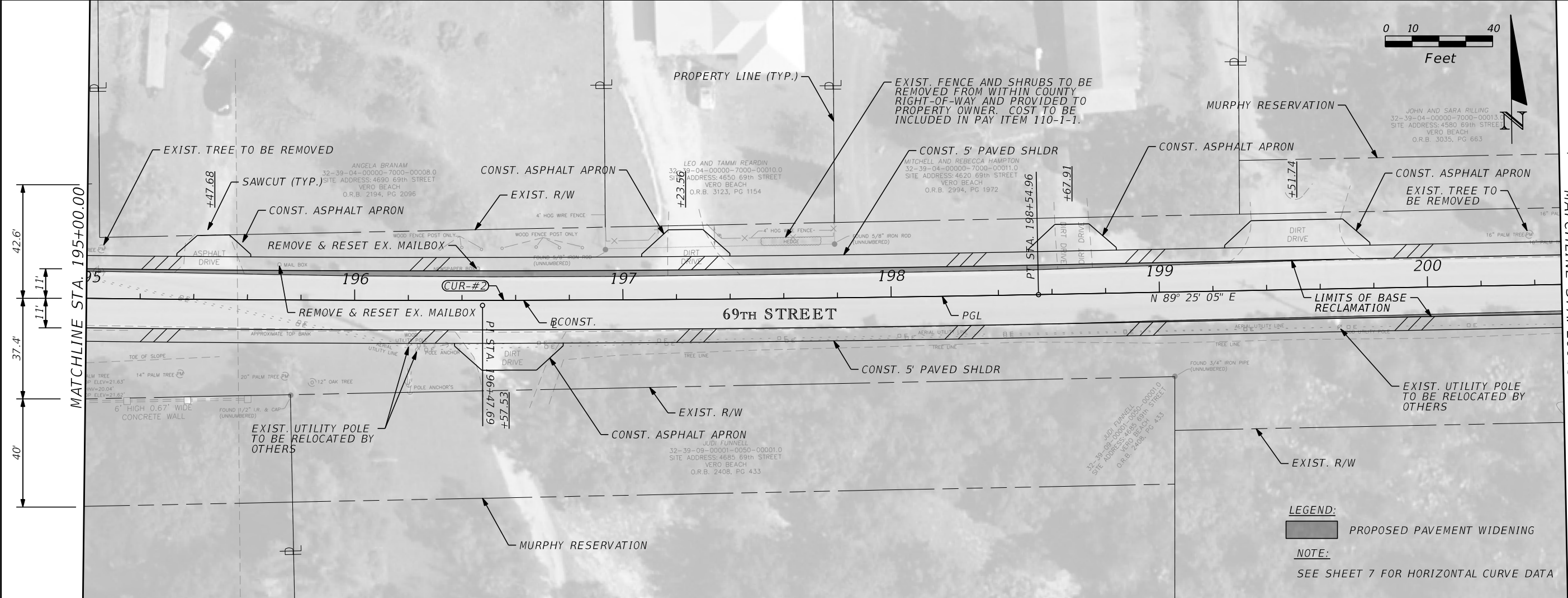


REVISIONS			
DATE	BY	DESCRIPTION	DATE

Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
 445 24th STREET, SUITE 200
 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

PLAN & PROFILE
 SHEET NO. 27



REVISIONS			
DATE	BY	DESCRIPTION	

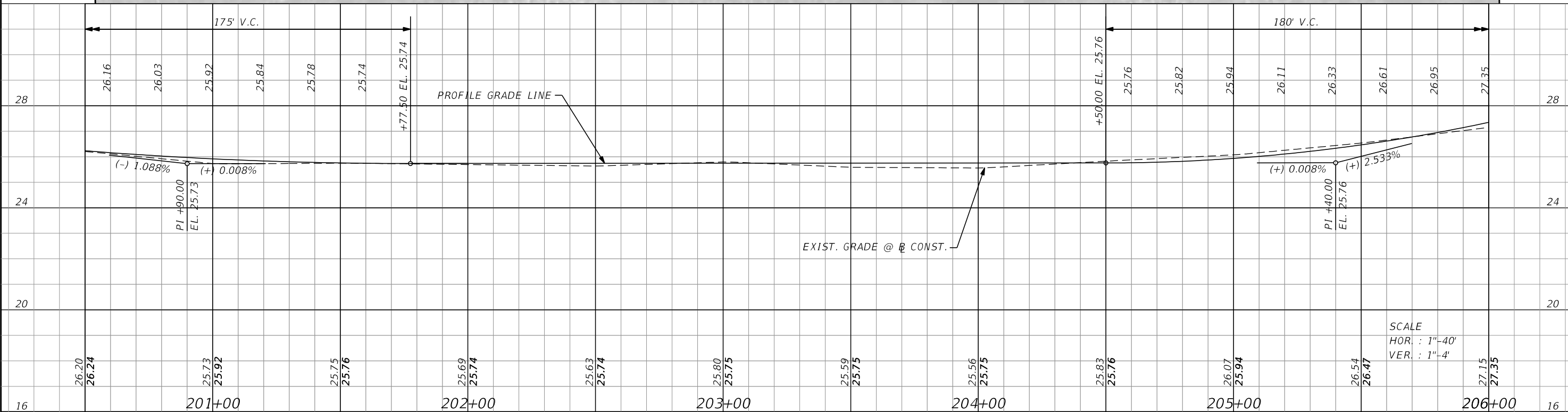
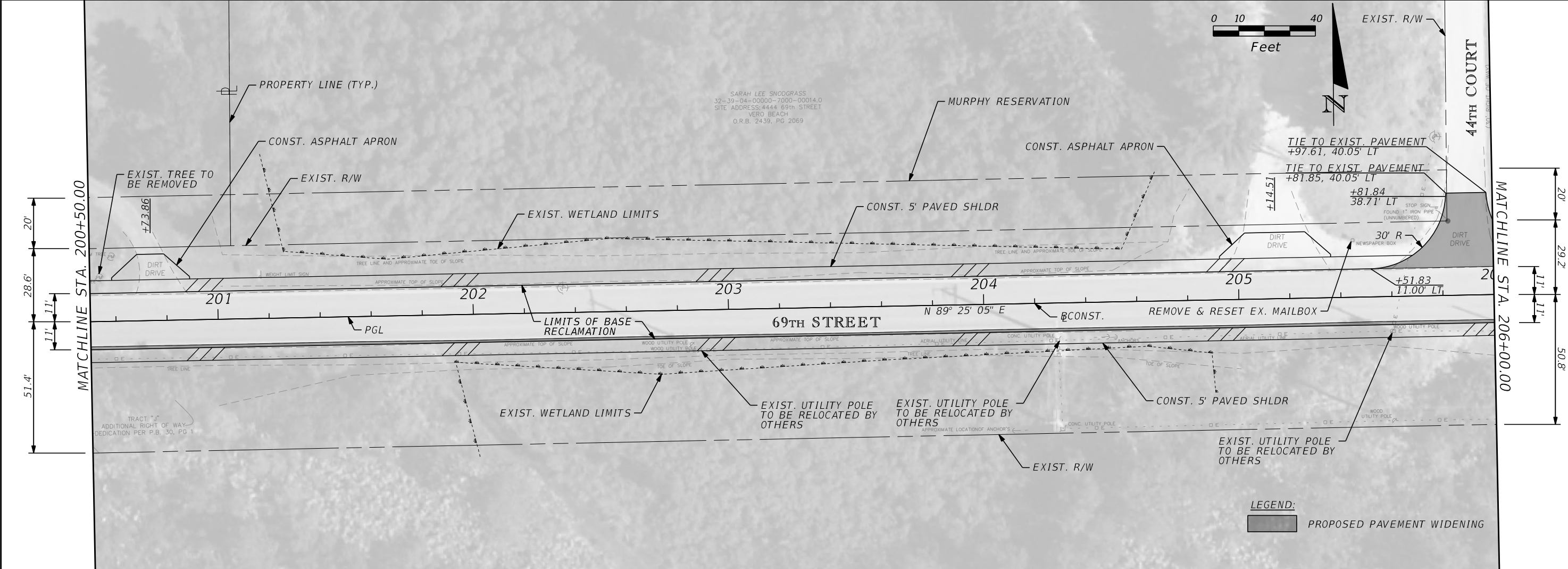
Kimley»Horn

BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
 445 24th STREET, SUITE 200
 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

PLAN & PROFILE

SHEET NO. 28

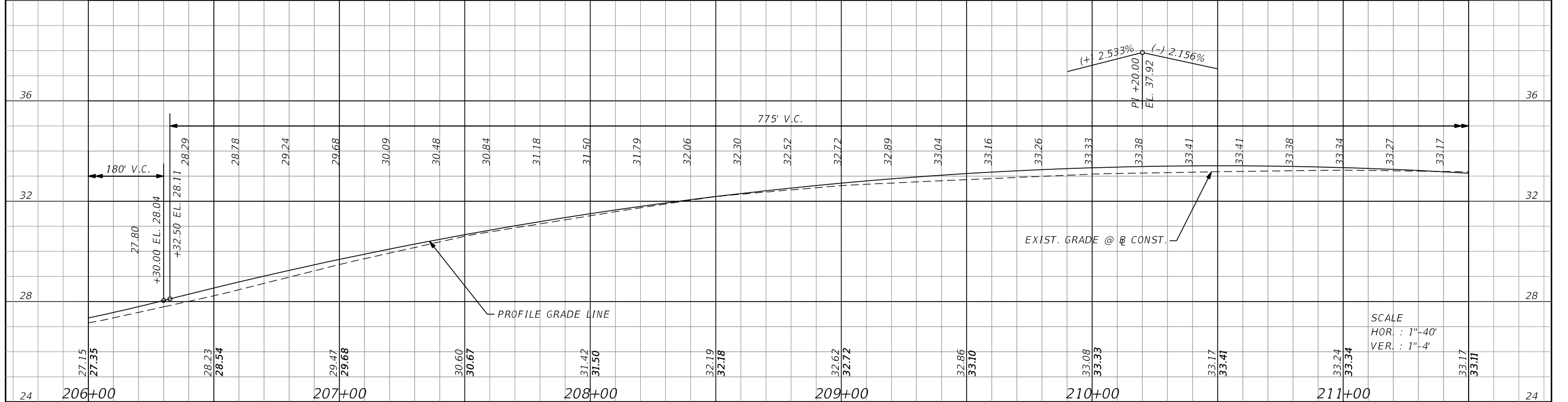
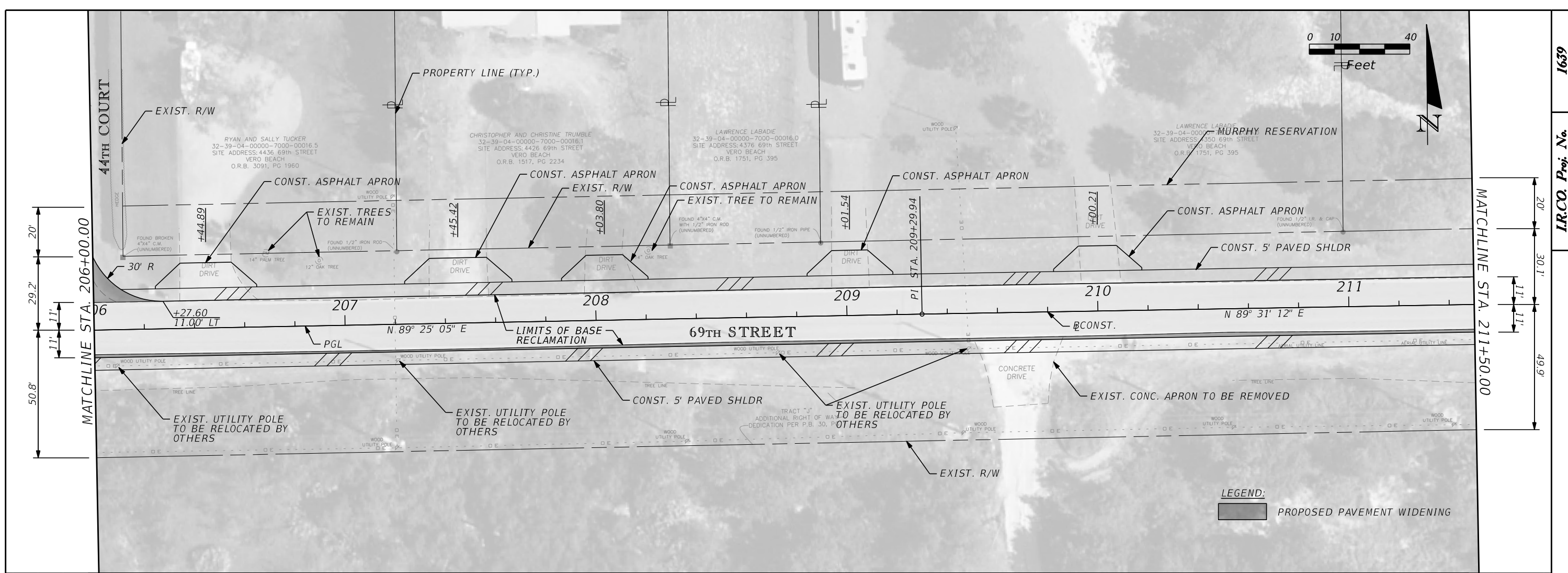


REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

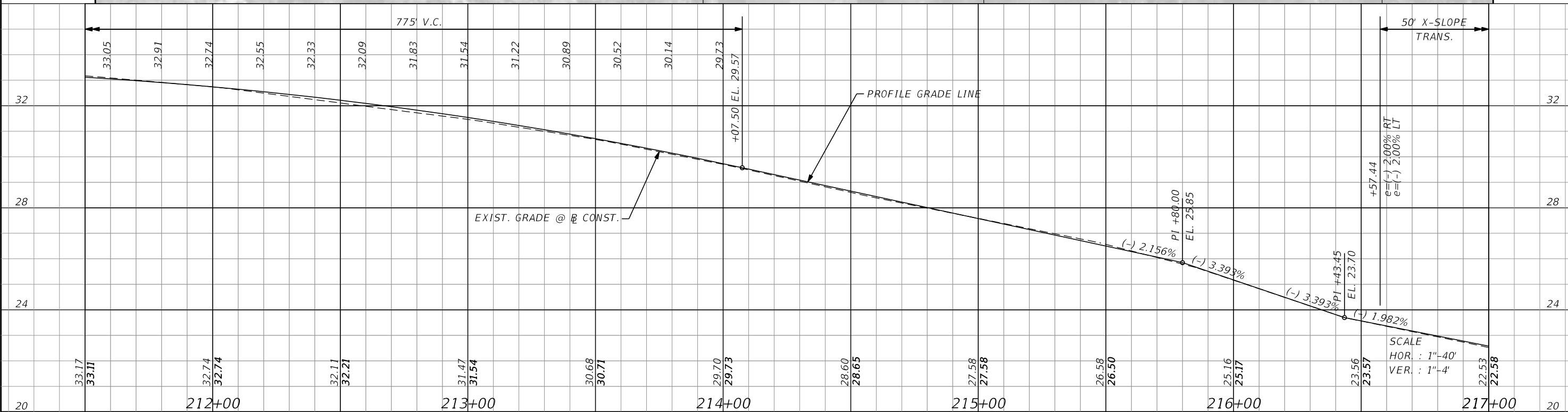
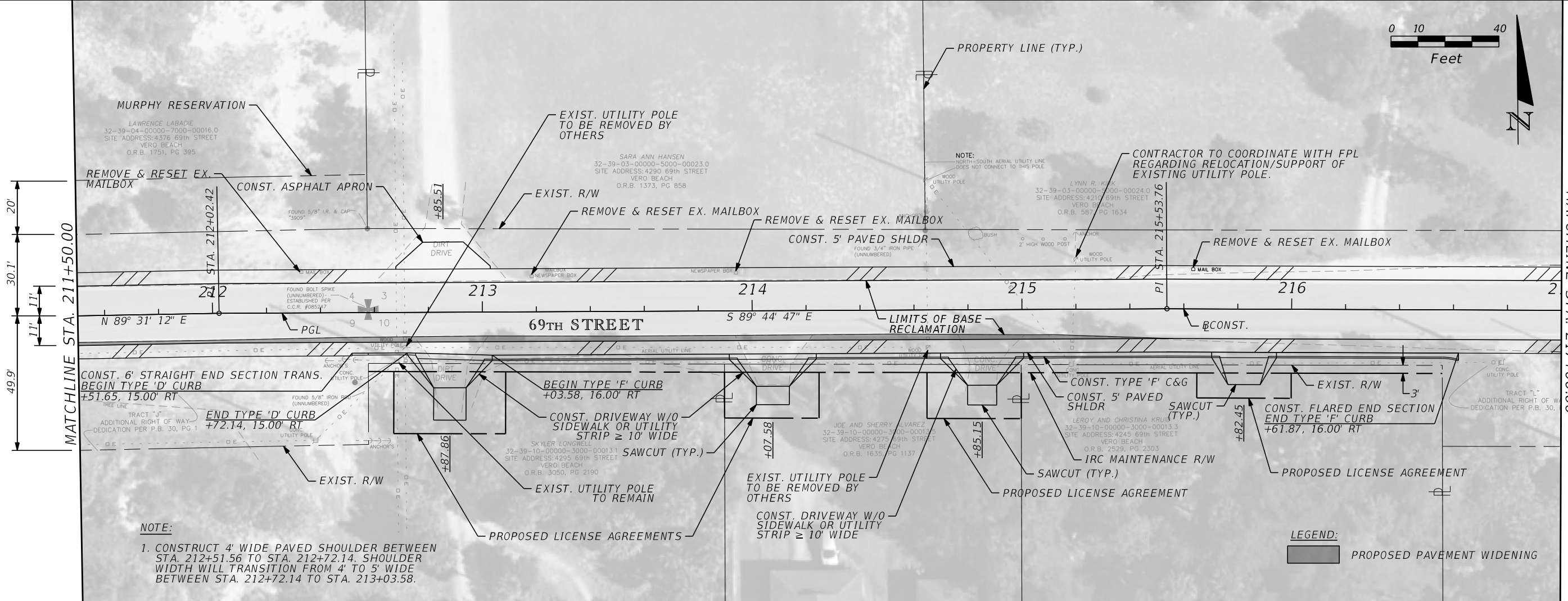
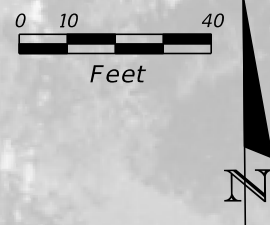
Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
 445 24th STREET, SUITE 200
 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

PLAN & PROFILE
 SHEET NO. 29



DATE		BY		DESCRIPTION	
REVISIONS					
<p>Kimley»Horn</p> <p>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696</p>					
INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 69TH STREET FROM 66TH AVENUE TO SR5/US-1, RESURFACING				SHEET NO. 30	



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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 P.E. LICENSE NUMBER 56939
 445 24th STREET, SUITE 200
 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

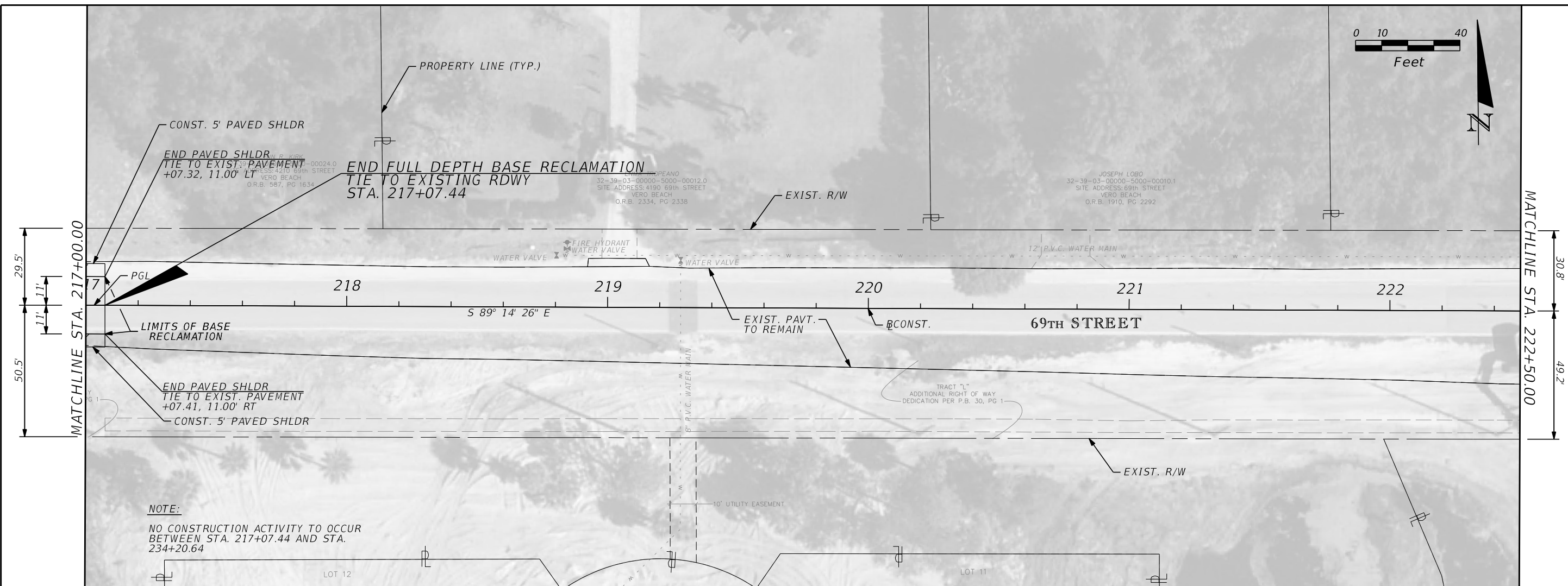
INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR6/US-1, RESURFACING

PLAN & PROFILE

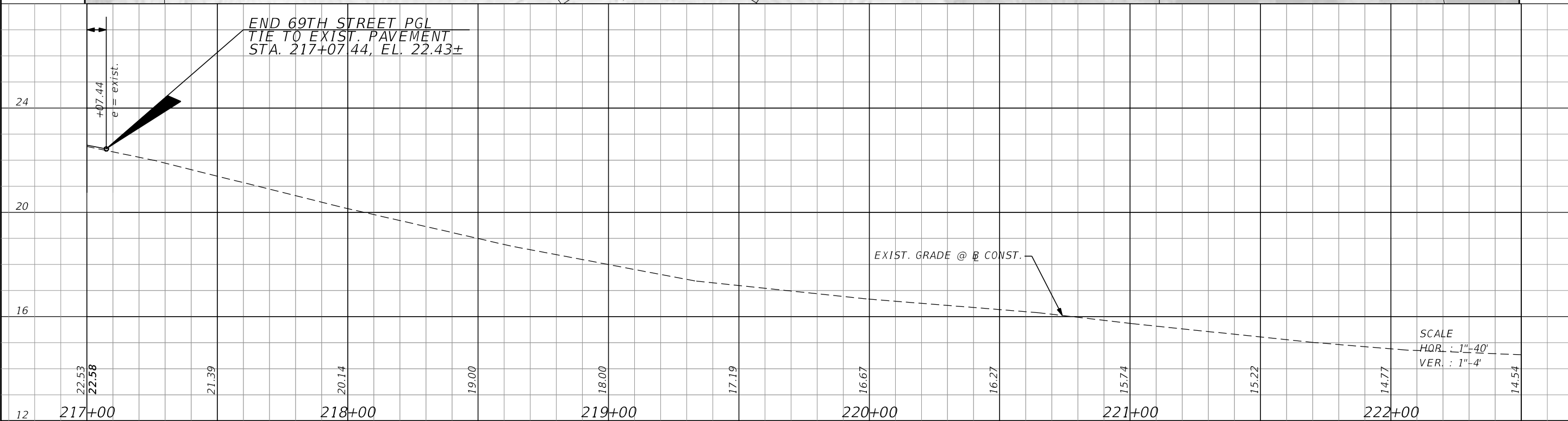
SHEET NO.
 31



I.R.CO. Proj. No. 1639



NOTE:
NO CONSTRUCTION ACTIVITY TO OCCUR
BETWEEN STA. 217+07.44 AND STA.
234+20.64



SCALE
HOR. : 1"=40'
VER. : 1"=4'

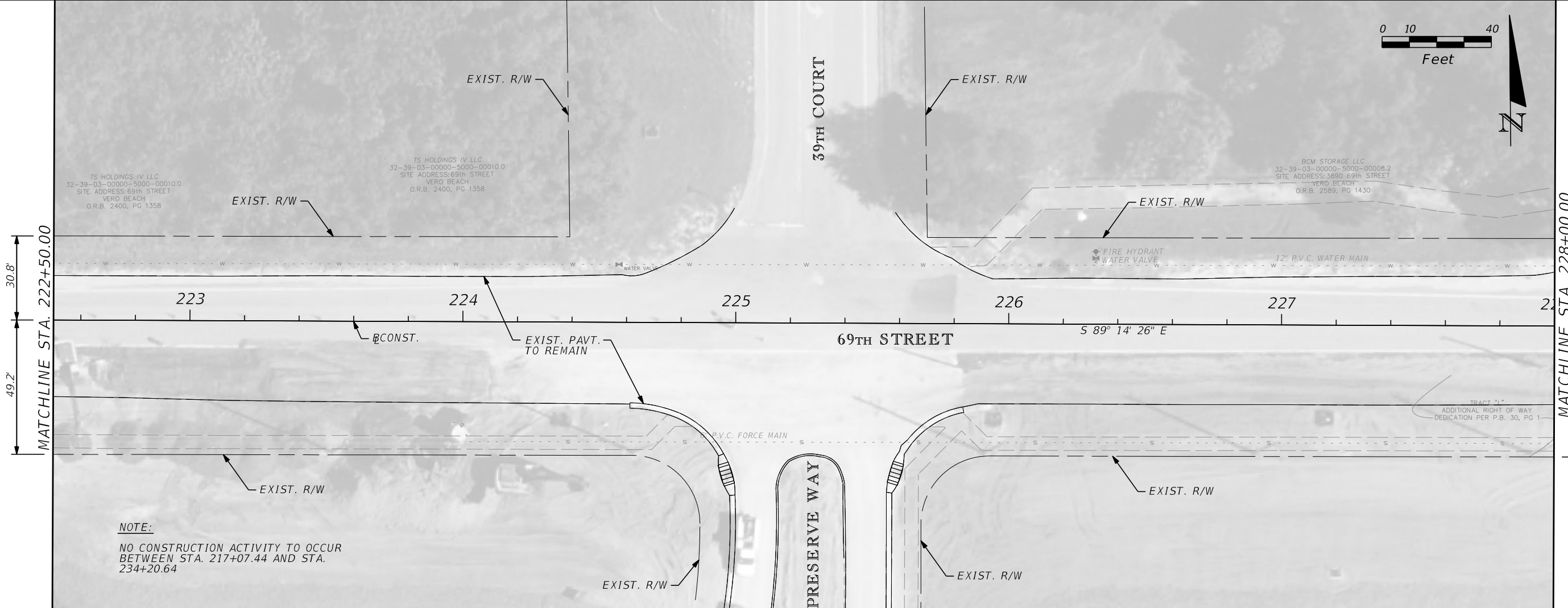
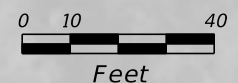
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 696

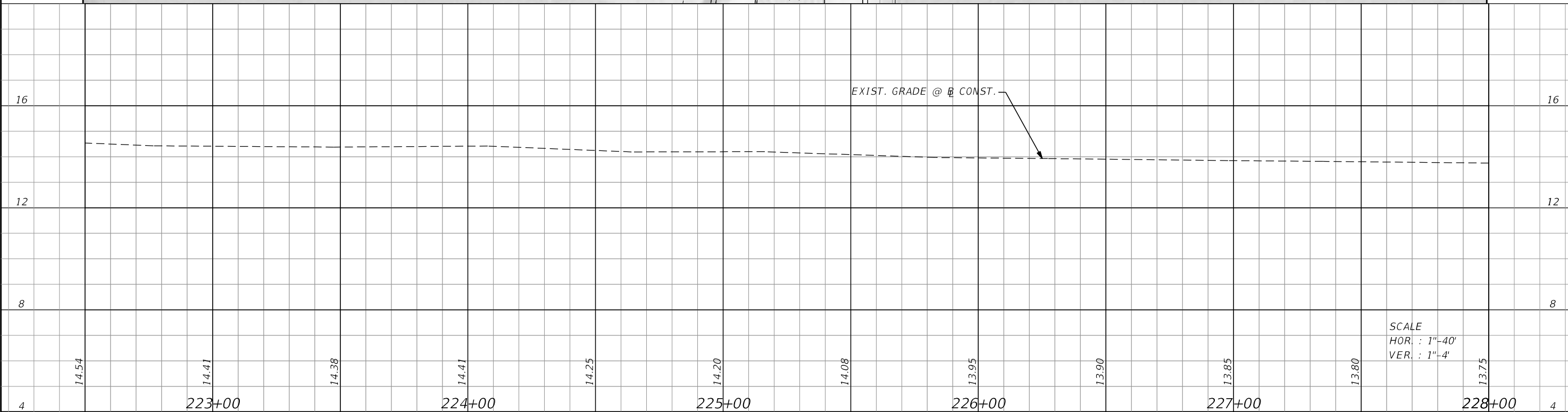
INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
69TH STREET FROM 66TH AVENUE
TO SR5/US-1, RESURFACING

PLAN & PROFILE

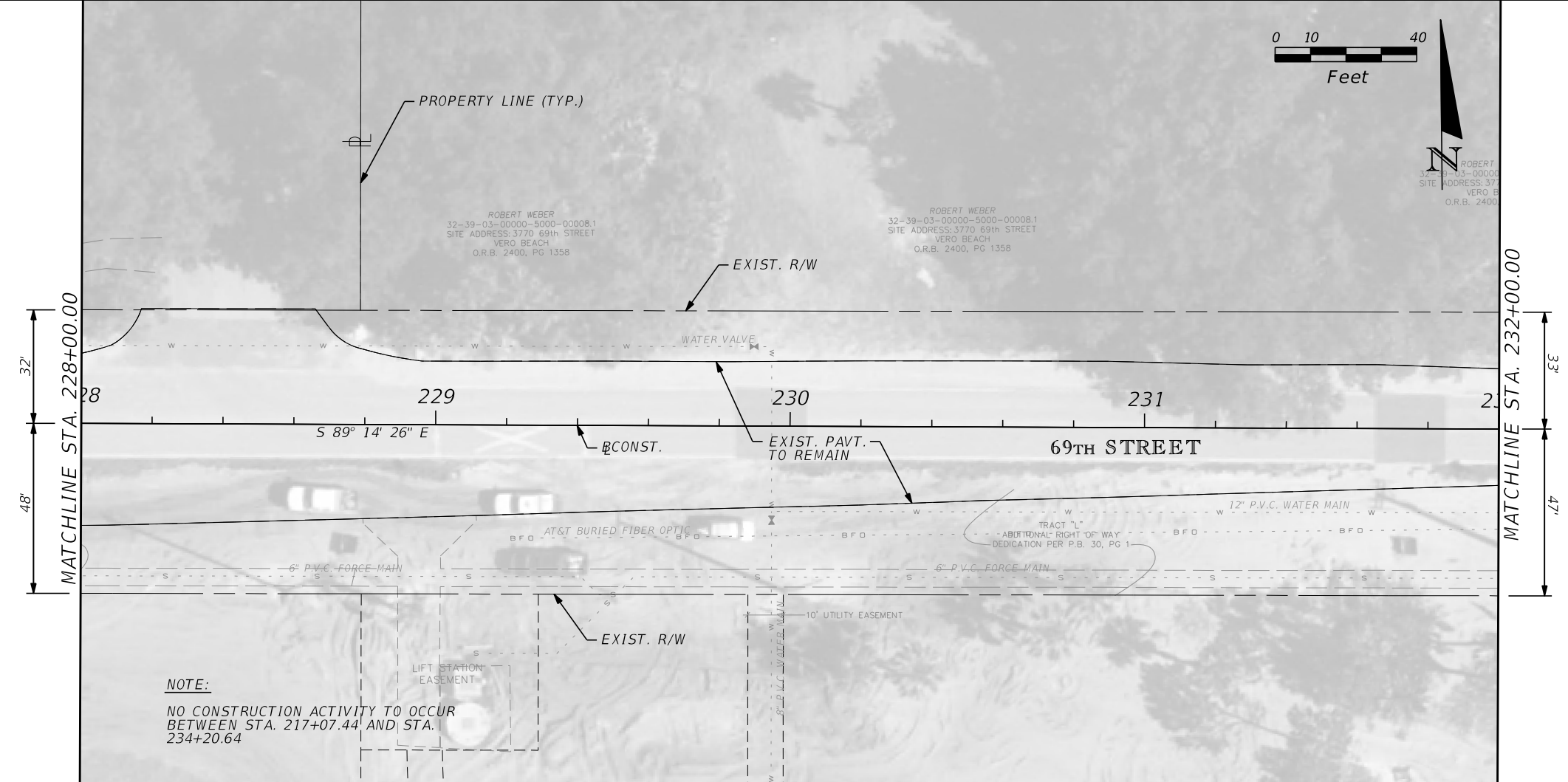
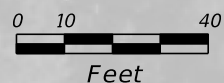
SHEET NO.
32



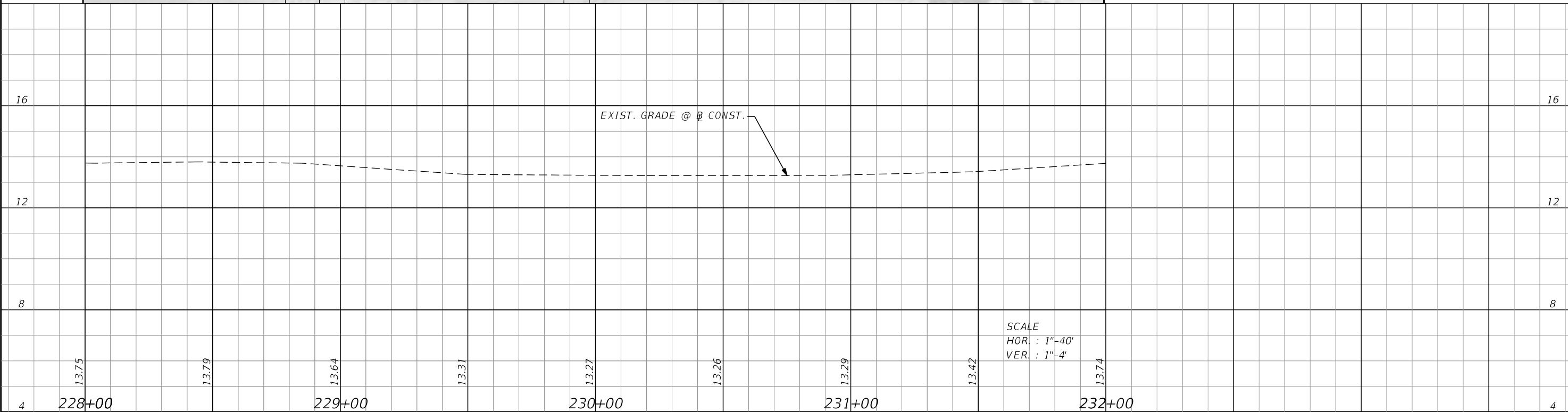
NOTE:
NO CONSTRUCTION ACTIVITY TO OCCUR
BETWEEN STA. 217+07.44 AND STA.
234+20.64



REVISIONS						Kimley»Horn <small>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696</small>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 69TH STREET FROM 66TH AVENUE TO SR5/US-1, RESURFACING	PLAN & PROFILE	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				33



NOTE:
NO CONSTRUCTION ACTIVITY TO OCCUR
BETWEEN STA. 217+07.44 AND STA.
234+20.64



SCALE
HOR. : 1"=40'
VER. : 1"=4'

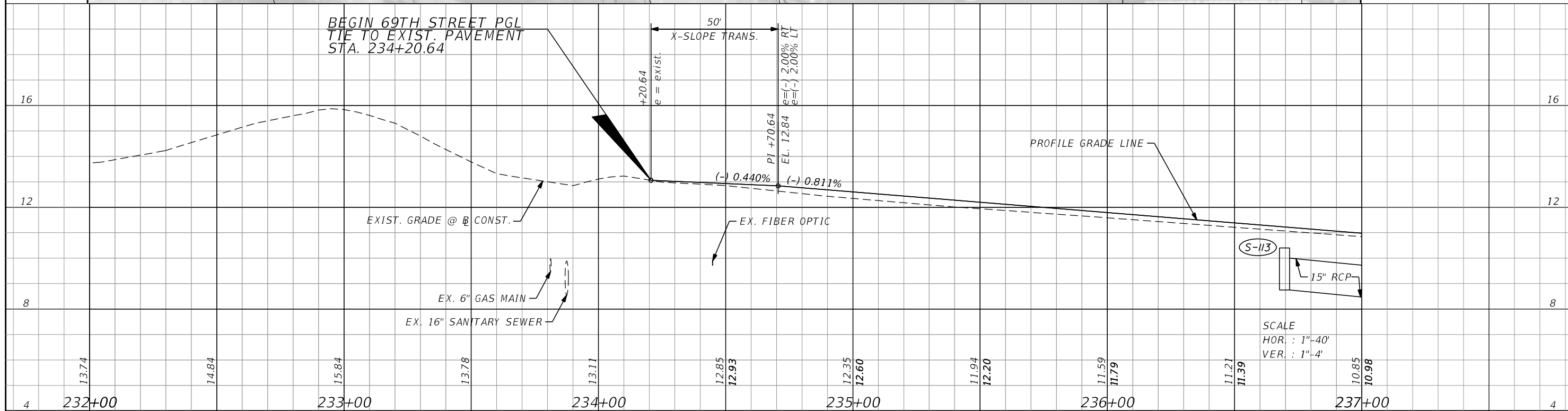
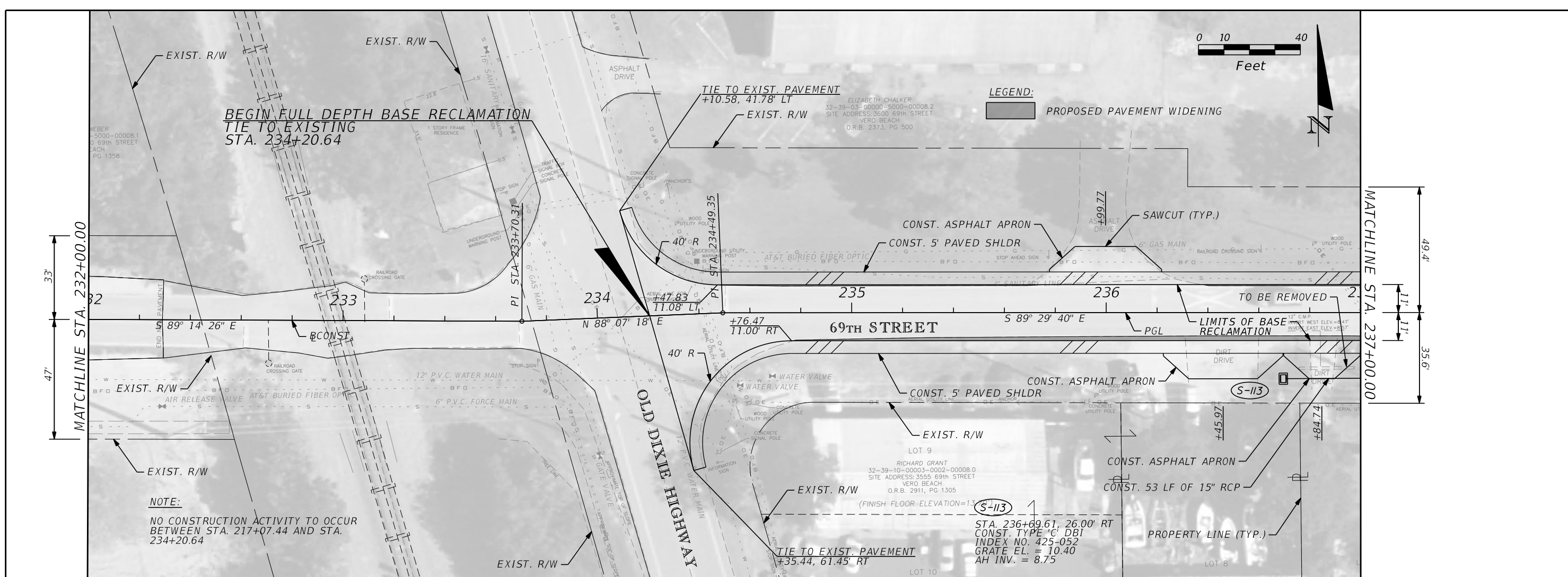
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 696

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
69TH STREET FROM 66TH AVENUE
TO SR5/US-1, RESURFACING

PLAN & PROFILE

SHEET NO.
34



DATE		BY		DESCRIPTION	

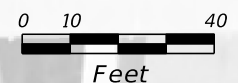
Kimley»Horn

BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
 445 24th STREET, SUITE 200
 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

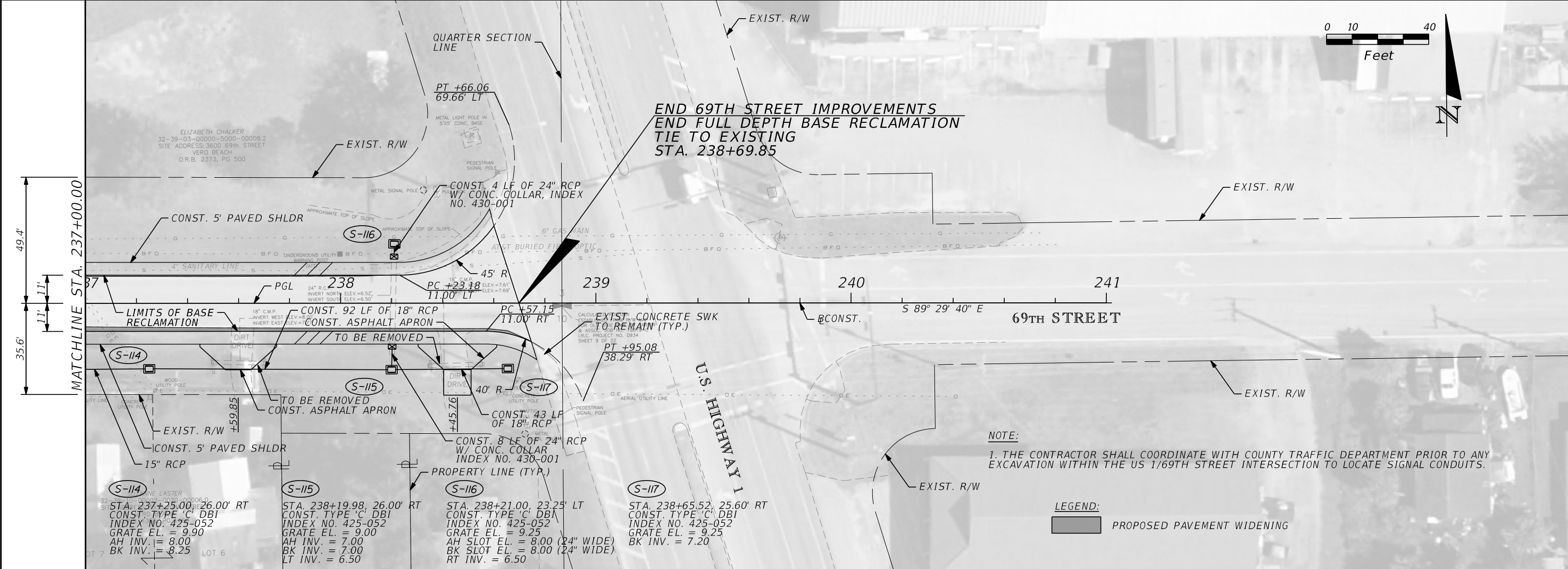
INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
69TH STREET FROM 66TH AVENUE
TO SR5/US-1, RESURFACING

PLAN & PROFILE

REVISIONS	SHEET NO.
	35

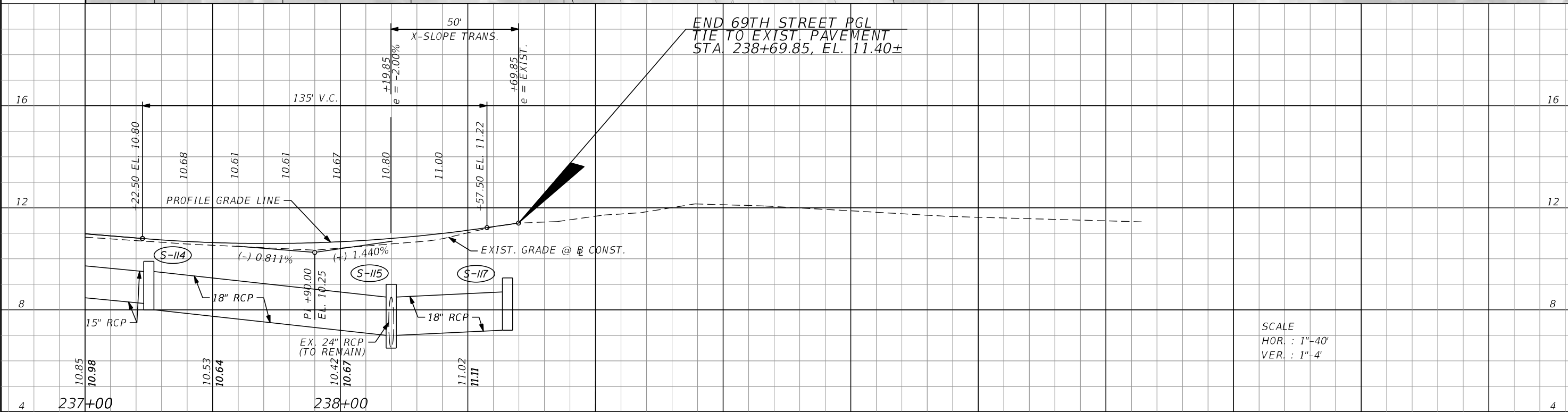


**END 69TH STREET IMPROVEMENTS
END FULL DEPTH BASE RECLAMATION
TIE TO EXISTING
STA. 238+69.85**



NOTE:
1. THE CONTRACTOR SHALL COORDINATE WITH COUNTY TRAFFIC DEPARTMENT PRIOR TO ANY EXCAVATION WITHIN THE US 1/69TH STREET INTERSECTION TO LOCATE SIGNAL CONDUITS.

LEGEND:
[Shaded Area] PROPOSED PAVEMENT WIDENING



**END 69TH STREET PGL
TIE TO EXIST. PAVEMENT
STA. 238+69.85, EL. 11.40±**

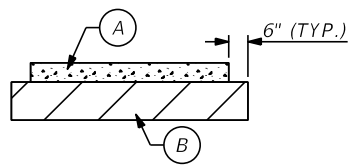
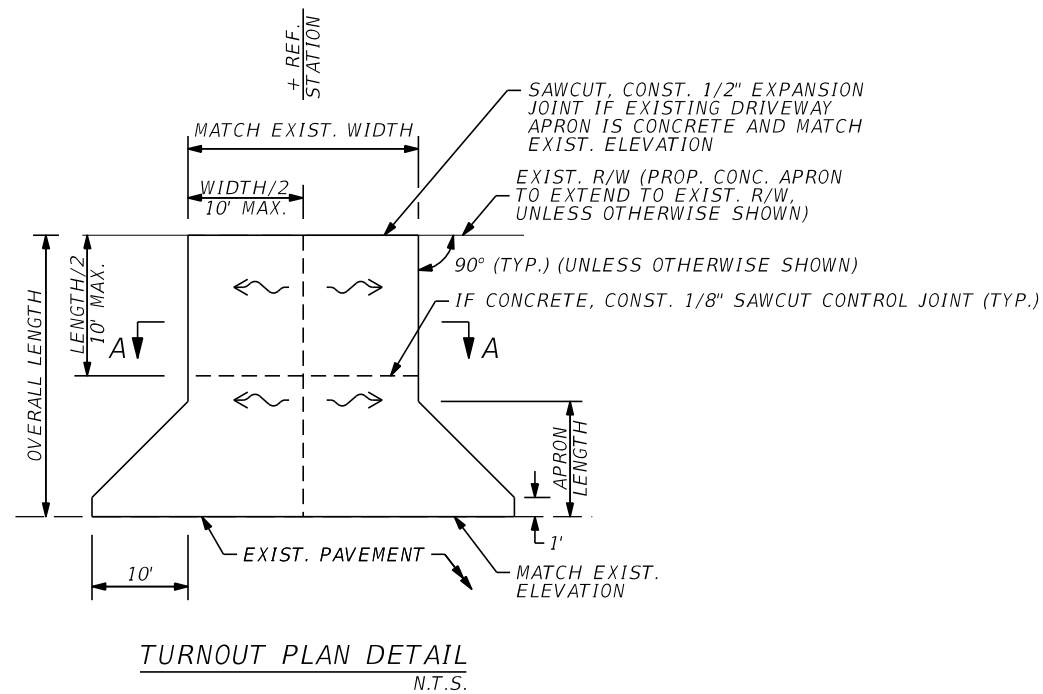
SCALE
HOR : 1"=40'
VER : 1"=4'

REVISIONS			
DATE	BY	DESCRIPTION	

Kimley»Horn
BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 696

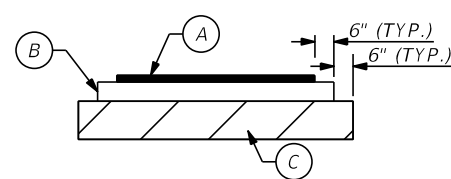
**INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
69TH STREET FROM 66TH AVENUE
TO SR5/US-1, RESURFACING**

PLAN & PROFILE
SHEET NO. 36



CONCRETE SECTION A-A
N.T.S.

- NOTES:
- (A) 6" CONCRETE (3000 PSI) WITH EXPANSION JOINTS & FIBER MESH
 - (B) 12" SUBGRADE COMPACTED TO A MIN. 98% OF AASHTO T-180 MAXIMUM DRY DENSITY (LBR 40)



ASPHALT SECTION A-A
N.T.S.

- NOTES:
- (A) 2" TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC C)
 - (B) OPTIONAL BASE GROUP 04 (CEMENTED COQUINA, LBR 100) (6")
 - (C) 12" TYPE 'B' STABILIZATION (LBR 40)

SUMMARY OF TURNOUTS									
STREET NAME	SIDE	APRON LENGTH (FT)	OVERALL LENGTH (FT)	WIDTH (FT)	CONCRETE AREA (SY)		ASPHALT AREA (SY)		FIELD BOOK REFERENCE
					CONCRETE DRIVEWAY (6" THICK)		TYPE SP-12.5 STR. CRS. (TRAF. C) (2") COQUINA OR LIMEROCK (LBR 100) (6")		
STATION					PLAN	FINAL	PLAN	FINAL	
69TH STREET									
119+00.55	RT	10	10	10.0			23.3		
120+52.47	RT	10	10	11.7			25.3		
122+52.29	RT	10	14.4	16.7			38.9		
122+59.43	LT	10	10	15.0			28.9		
130+27.90	RT	10	10	12.0			25.6		
131+03.70	LT	10	10	15.0			28.9		
133+03.90	RT	10	10	14.7			28.5		
133+14.07	LT	10	10	15.0			29.9		
133+67.58	LT	10	10	16.0			30.0		
134+93.13	LT	10	10	15.6	29.4				
135+80.71	LT	10	10	20.0			34.5		
137+56.26	RT	10	10	9.5			22.8		
137+95.12	LT	10	10	10.0			23.3		
138+51.27	LT	10	10	12.0			25.5		
141+12.53	LT	10	10	18.0	32.2				
146+58.29	LT	10	18.7	10.0			33.0		
171+66.56	RT	10	15	16.0	37.7				
177+59.23	RT	10	10	16.7	30.8				
180+25.74	RT	10	15	10.0			28.9		
189+41.02	RT	10	25.5	12.4			49.6		
193+86.34	LT	10	10	12.0			43.0		
194+67.45	RT	10	10	17.0			31.1		
195+47.68	LT	8	8	12.0			18.4		
196+57.53	RT	10	10	20.4			34.9		
197+23.56	LT	10	10	12.9			26.6		
198+67.91	LT	10	10	12.7			26.4		
199+51.74	LT	10	10	34.2			50.2		
200+73.86	LT	10	10	10.6			24.0		
205+14.51	LT	10	10	23.6			38.4		
206+44.89	LT	10	10	20.4			34.9		
207+45.42	LT	10	10	22.8			37.5		
208+03.80	LT	10	10	14.5			28.3		
209+01.54	LT	10	10	14.2			28		
210+00.21	LT	10	10	15.2			29.1		
212+85.51	LT	10	10	15.0			28.9		
212+87.86	RT	10	18	12.0	47.7				
214+07.58	RT	10	18.8	12.2	41.2				
214+85.15	RT	10	19.3	10.8	38.8				
215+82.45	RT	10	10	12.0	25.4				
235+99.77	LT	10	10	24.1			39		
236+45.97	RT	10	10	27.0			42.2		
236+84.74	RT	10	10	10.0			23.3		
237+59.85	RT	10	10	10.0			23.3		
238+45.76	RT	10	20	10.7			36.2		
UNFORSEEN	-	-	-	-	50.0		100		
TOTAL					333.2		1220.6		

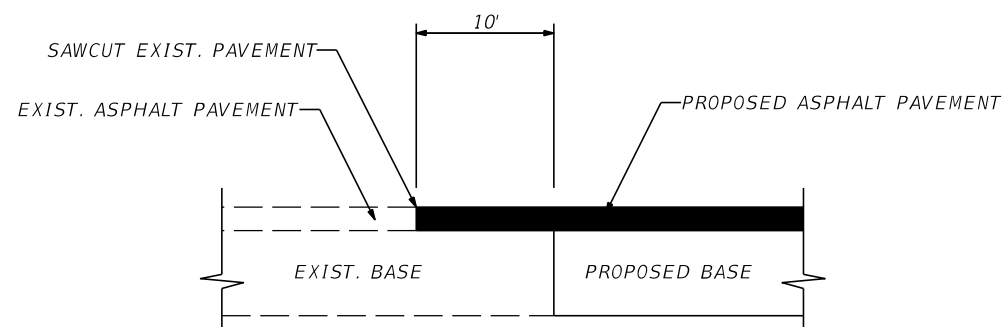
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
 445 24th STREET, SUITE 200
 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

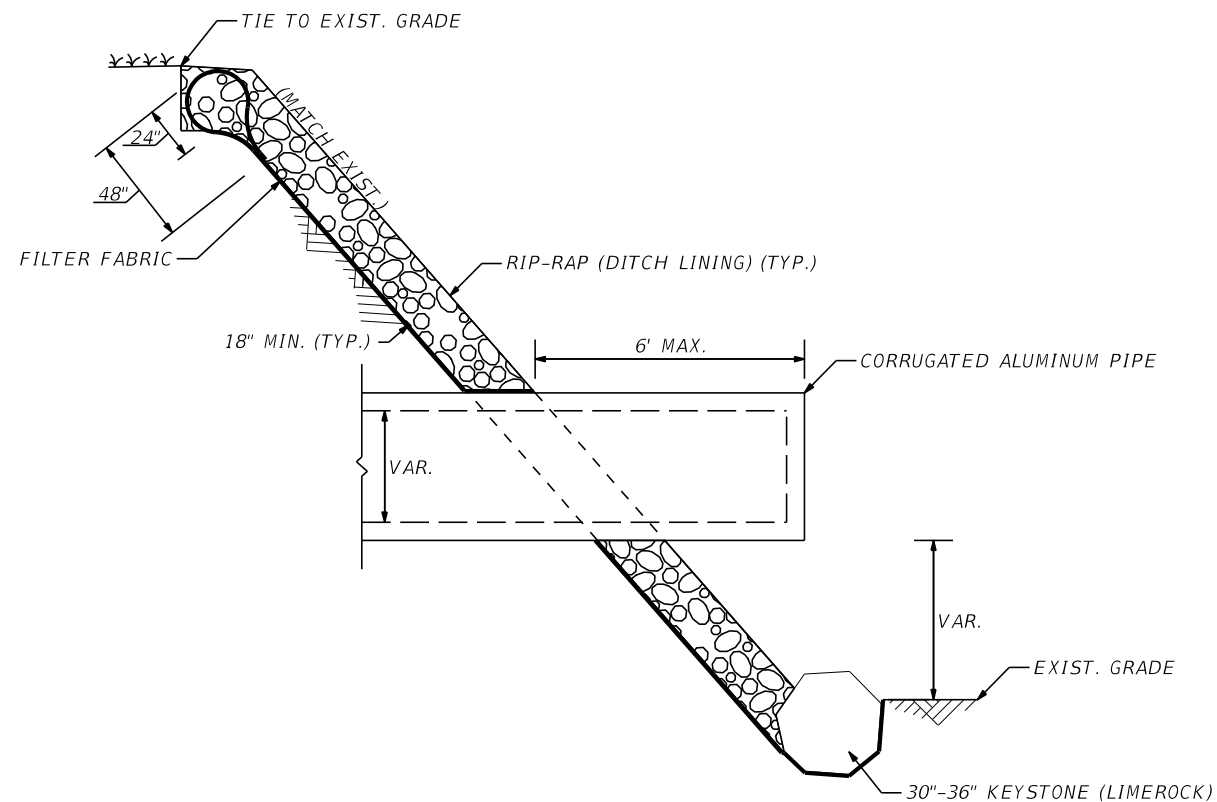
INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

SUMMARY OF TURNOUTS

SHEET NO.
37



LAP JOINT DETAIL
N.T.S.



CULVERT REVETMENT DETAIL
N.T.S.

- NOTES:
1. COST OF FILTER FABRIC TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR RIP-RAP.
 2. RIP-RAP MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE WITH FDOT SECTION 530.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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**INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING**


MISCELLANEOUS DETAIL

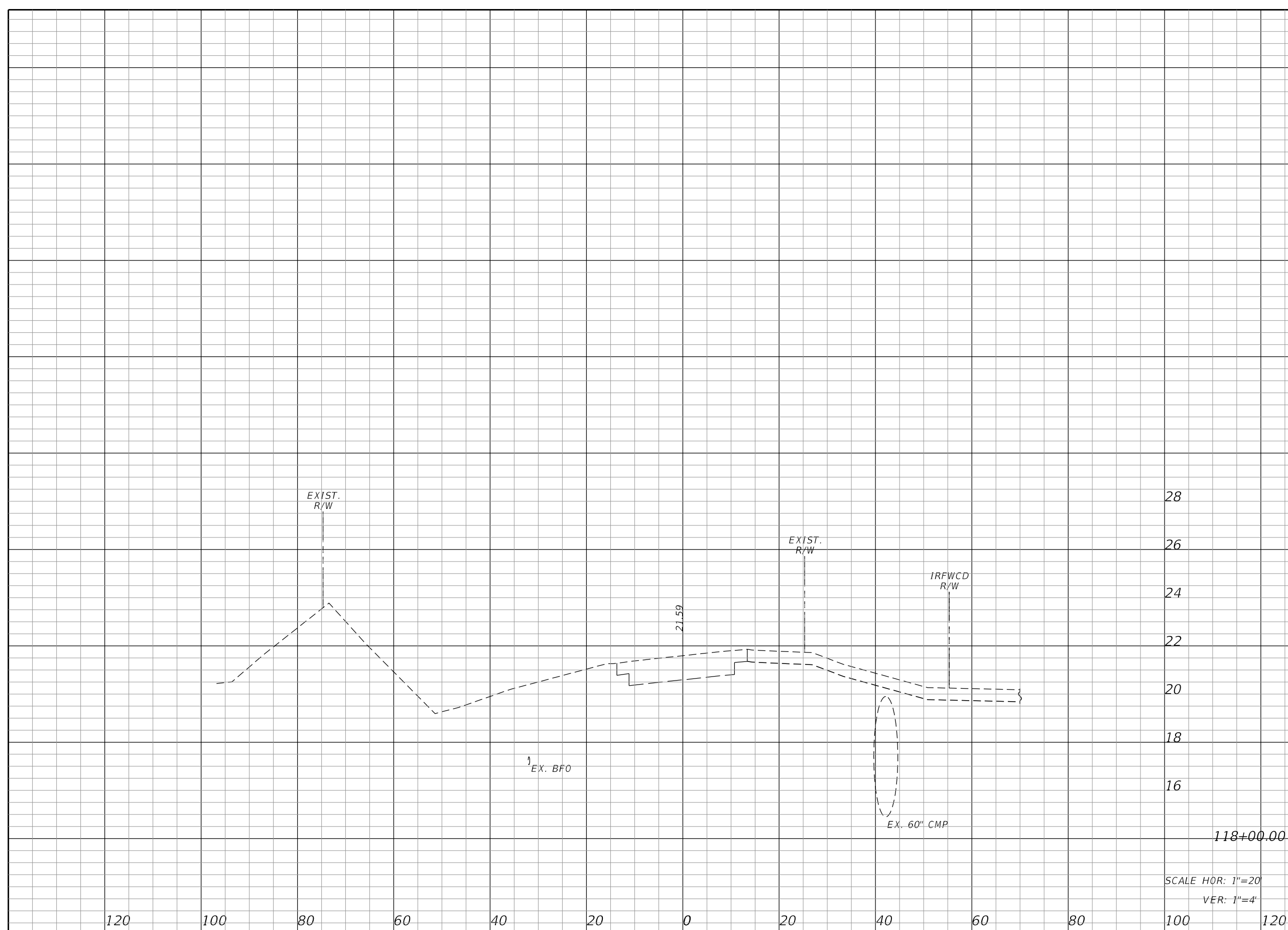
SHEET NO.
38

NOTES:

1. WHERE SOIL CONDITIONS CANNOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE METHOD OF CONSTRUCTION TO IRCDUS FOR APPROVAL.
2. SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD IN ACCORDANCE WITH OSHA REGULATIONS.
3. COMPACTION PERCENTAGES SHOWN REFER TO AASHTO T-180 MODIFIED PROCTOR METHOD.
4. MECHANICAL COMPACTION NOT ALLOWED BELOW THIS LEVEL OTHER THAN HAND VIBRATORY MEANS.
5. COMPACTION REPORTS REQUIRED.
6. MINIMUM TRENCH WIDTH "W" = PIPE O.D. PLUS 2'-0".
7. 2" DETECTION TAPE WITH METALLIC BACKING TO BE INSTALLED OVER MAIN 6" BELOW BOTTOM OF BASE COURSE. TAPE TO BE MARKED "CAUTION-WATER LINE BELOW", "CAUTION-FORCE MAIN BELOW", OR "CAUTION-REUSE MAIN BELOW". TRACE WIRE SHALL BE USED CONTINUOUSLY ON ALL PIPE. SEE DRAWING, No. M-14, TRACE WIRE DETAIL.
8. ALL RESTORATION IN EASEMENTS OR RIGHT-OF-WAYS OR WHEN REQUIRED BY OTHER JURISDICTIONAL AGENCIES SHALL CONFORM TO IRCDUS SPECIFICATIONS OR THE OTHER JURISDICTIONAL AGENCY SPECIFICATION, WHICHEVER IS MORE STRINGENT.
9. ALL PIPE TO BE LOCATED A MINIMUM OF 5' O.C. (TYPICAL) FROM EDGE OF PAVEMENT.
10. EXCAVATABLE FLOWABLE FILL IS ALLOWED WITH PRIOR APPROVAL OF PROPOSED MATERIAL STRENGTH BY COUNTY PUBLIC WORKS ENGINEER OR DESIGNEE.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES	TRENCH DETAIL NOTES	DRAWING NO. M-1 A
MAY 2019		

REVISIONS							INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 69TH STREET FROM 66TH AVENUE TO SR5/US-1, RESURFACING	MISCELLANEOUS DETAIL	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				38A



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
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**INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING**

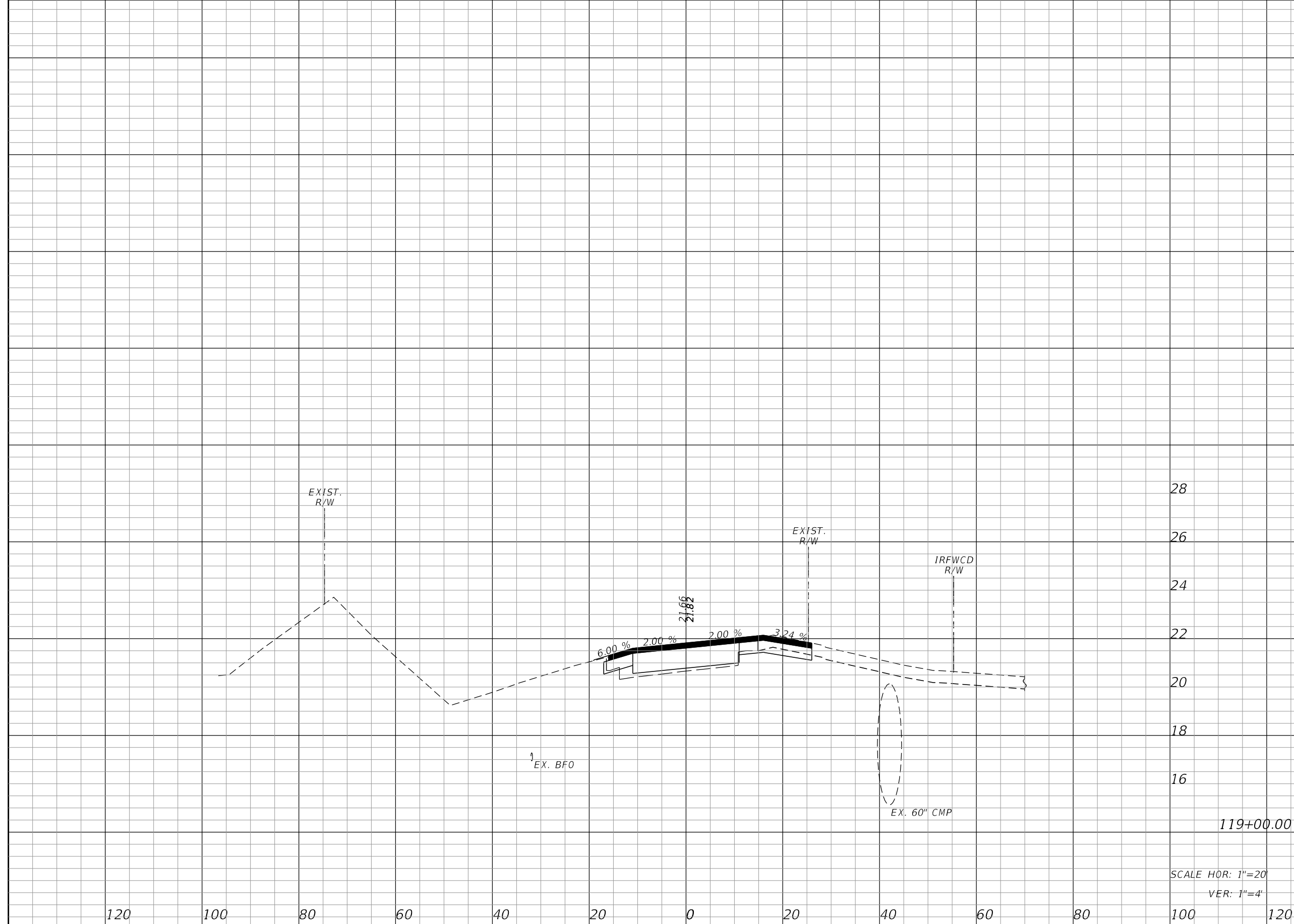
**69TH STREET
 CROSS SECTIONS**

SHEET
 NO.
 39

Regular Exc. A V Embankment A V

1639 I.R.CO. Proj. No.

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



Station	Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
119+00.00	34.2	0.0	0.1	0.0

SCALE HOR: 1"=20'
VER: 1"=4'

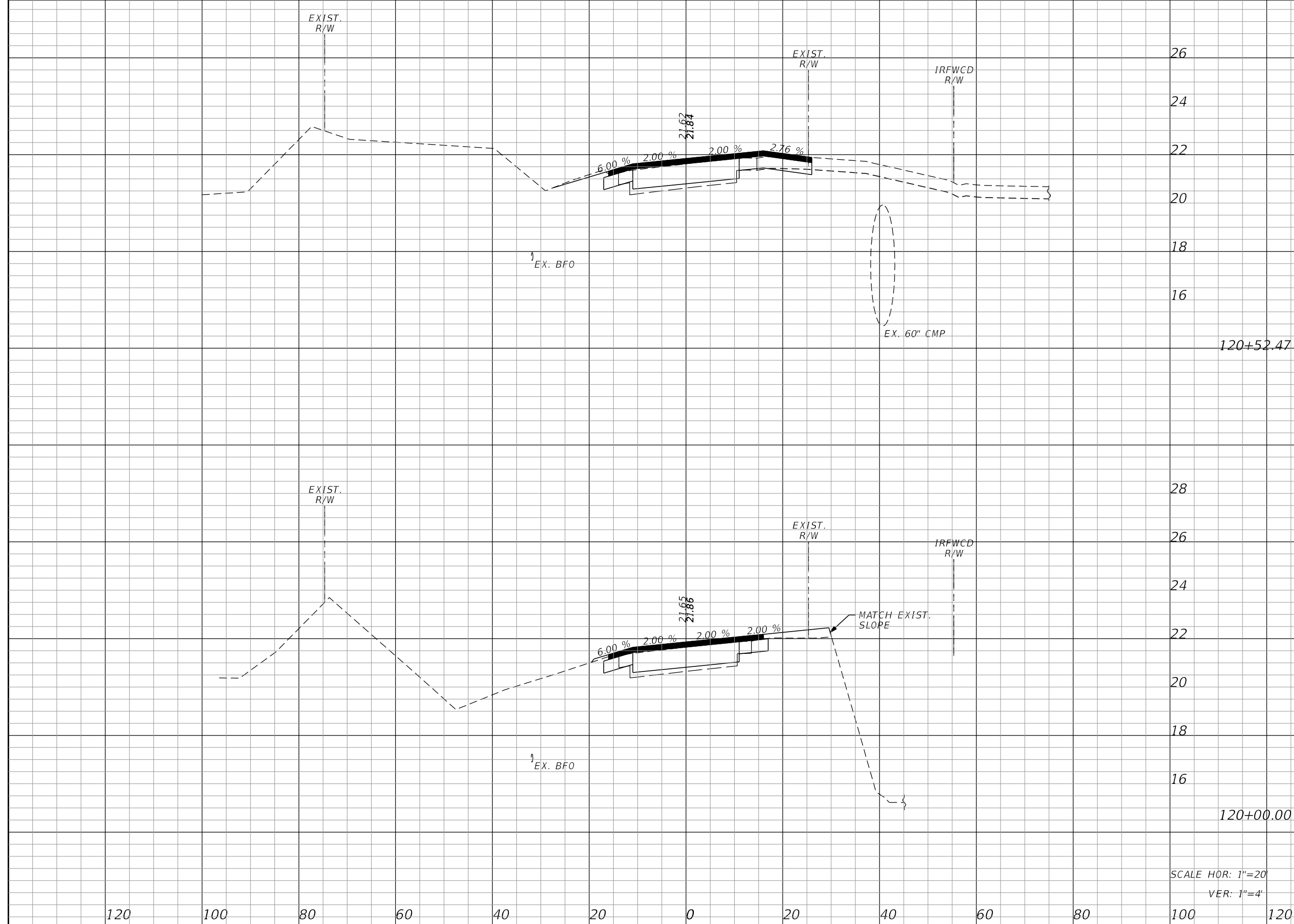
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

69TH STREET
 CROSS SECTIONS

SHEET NO.
 40



Station	Regular Exc.		Embankment	
	A	V	A	V
120+52.47	30.3	53.2	0.0	4.1
120+00.00	24.4	108.5	4.2	8.0

SCALE HOR: 1"=20'
VER: 1"=4'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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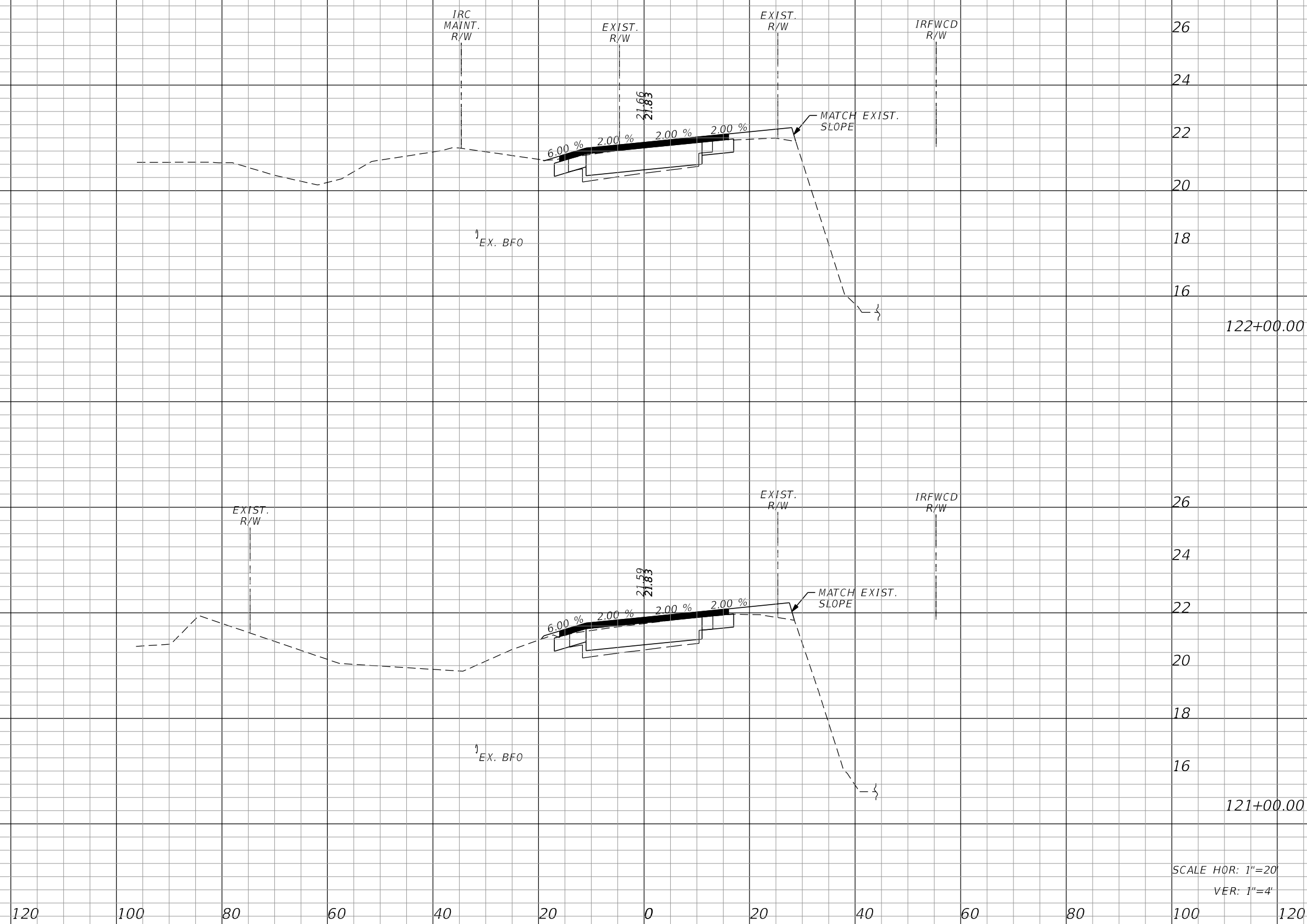
INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

69TH STREET
 CROSS SECTIONS

SHEET NO.
 41

Regular Exc. Embankment
 A V A V

I.R.CO. Proj. No. 1639
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Station	Regular Exc.		Embankment	
	A	V	A	V
122+00.00	25.3	90.2	3.8	15.4
121+00.00	23.4	47.3	4.5	4.0

SCALE HOR: 1"=20'
 VER: 1"=4'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

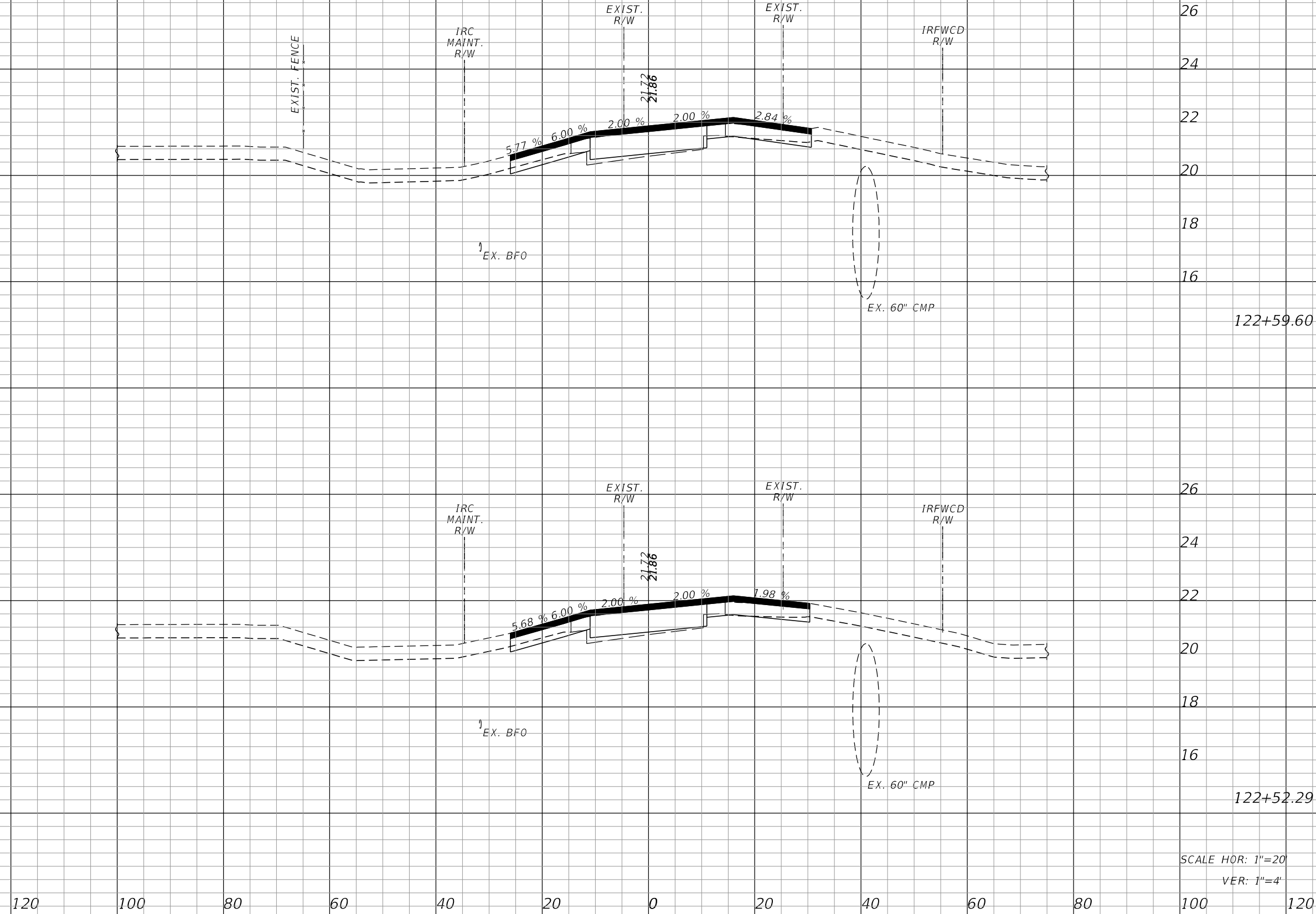
69TH STREET
 CROSS SECTIONS

SHEET NO.
 42

Regular Exc. A V Embankment A V

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I.R.CO. Proj. No. 1639



122+59.60

122+52.29

SCALE HOR: 1"=20'
VER: 1"=4'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

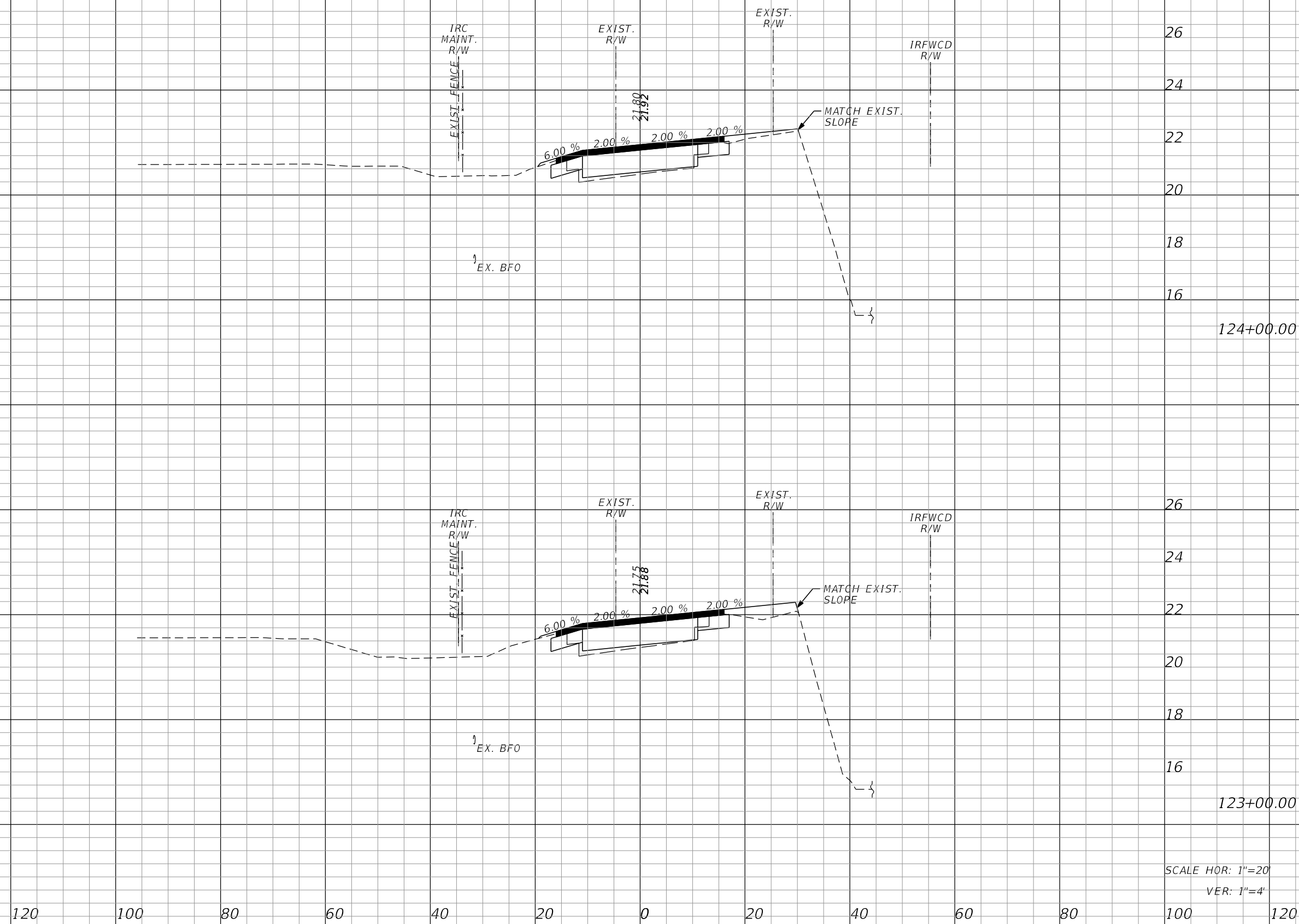
Kimley»Horn
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

69TH STREET
 CROSS SECTIONS

SHEET NO.
 43

Regular Exc. A V Embankment A V



Station	Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
124+00.00	26.8	99.1	2.6	15.0
123+00.00	26.7	50.4	5.5	4.1

SCALE HOR: 1"=20'
VER: 1"=4'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

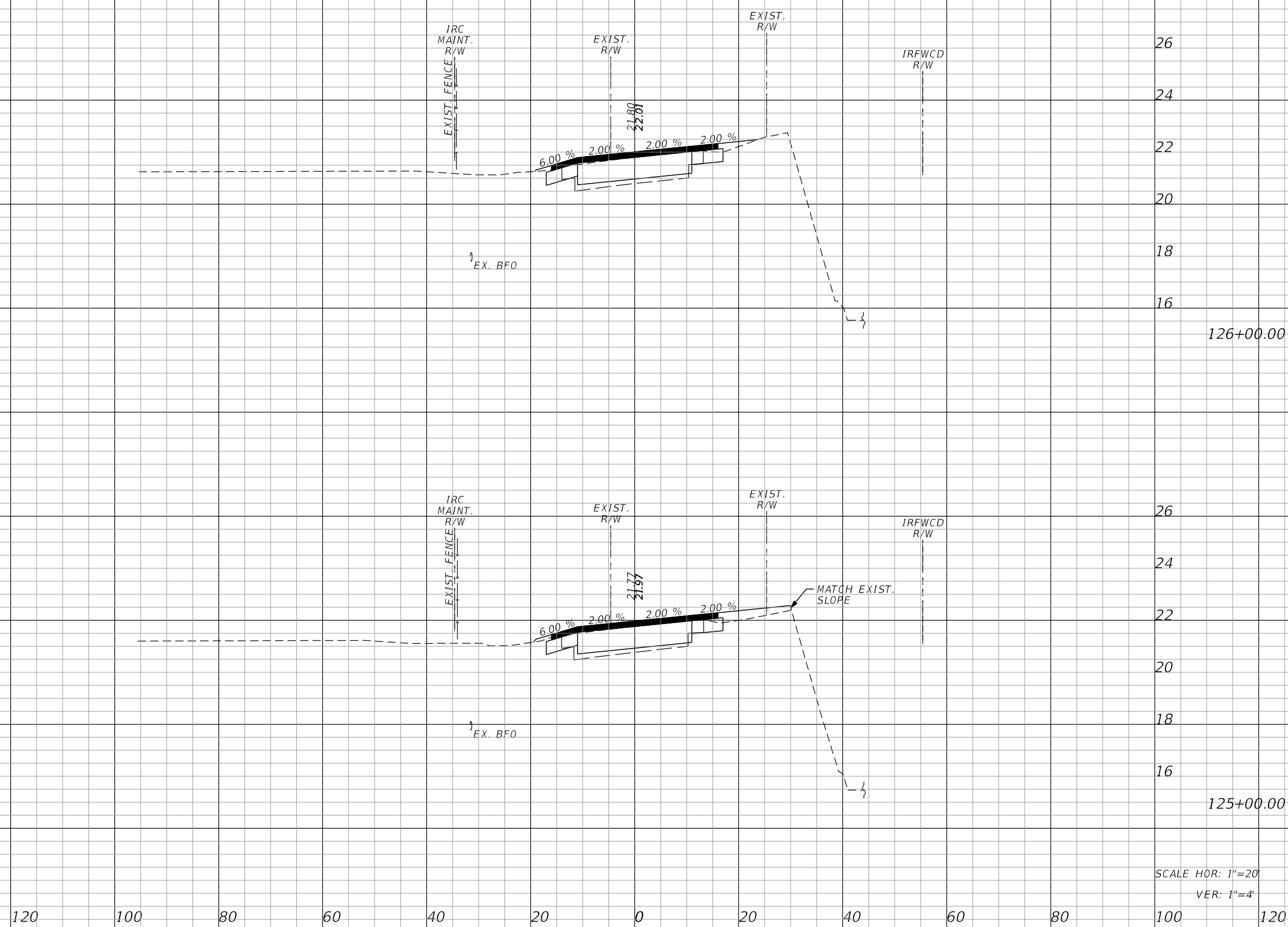
69TH STREET
 CROSS SECTIONS

SHEET NO.
 44

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Regular Exc. Embankment
 A V A V

I.R.CO. Proj. No. 1639
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Station	Regular Exc.		Embankment	
	A	V	A	V
126+00.00	23.8	89.1	1.7	11.7
125+00.00	24.3	94.6	4.6	13.3

SCALE HOR: 1"=20'
 VER: 1"=4'

REVISIONS					
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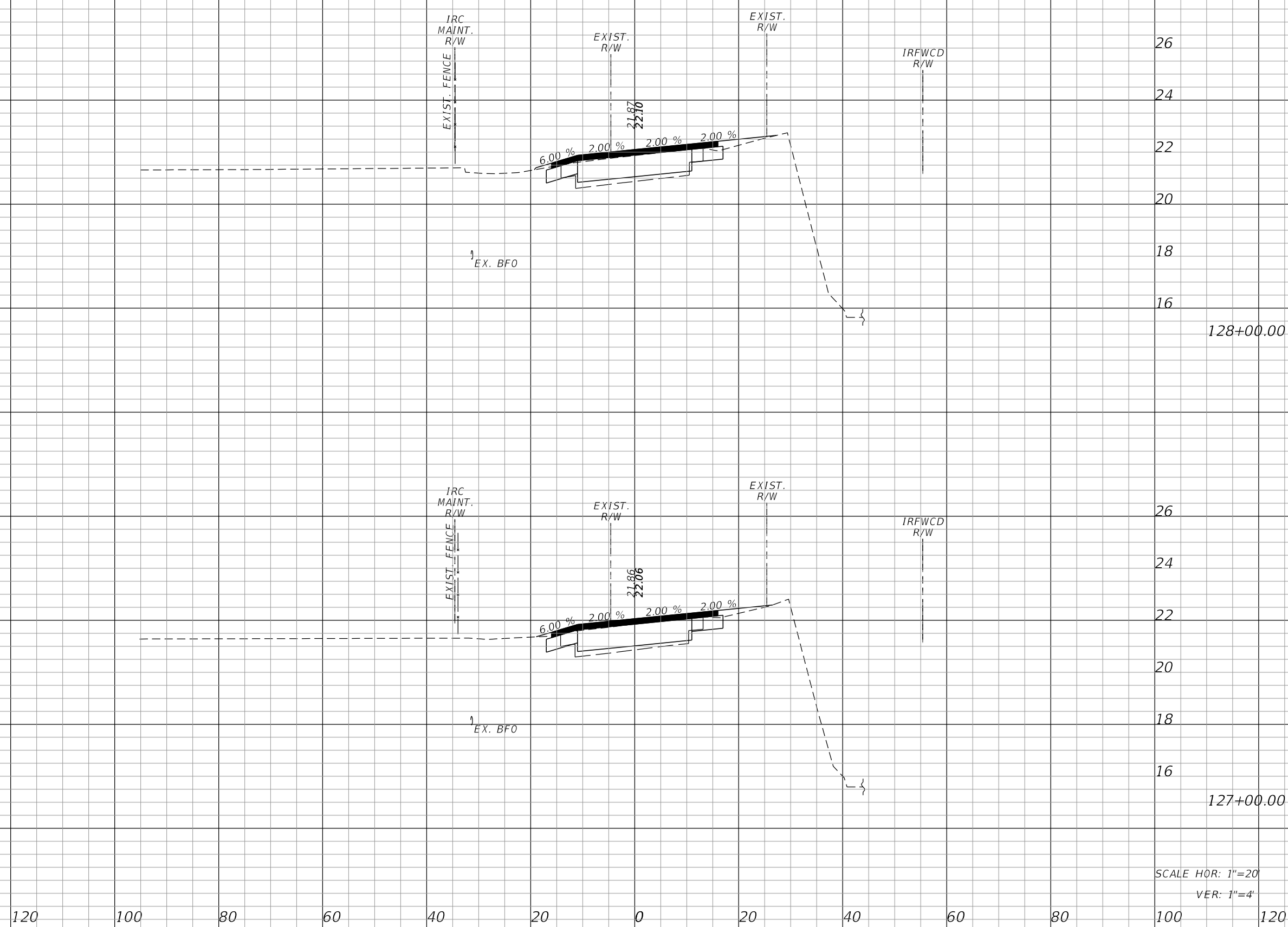
INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

69TH STREET
 CROSS SECTIONS

SHEET NO.
 45

Regular Exc. Embankment
 A V A V

I.R.CO. Proj. No. 1639
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Station	Regular Exc.		Embankment	
	A	V	A	V
128+00.00	23.5	89.1	2.2	7.4
127+00.00	24.6	89.6	1.8	6.5

SCALE HOR: 1"=20'
 VER: 1"=4'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

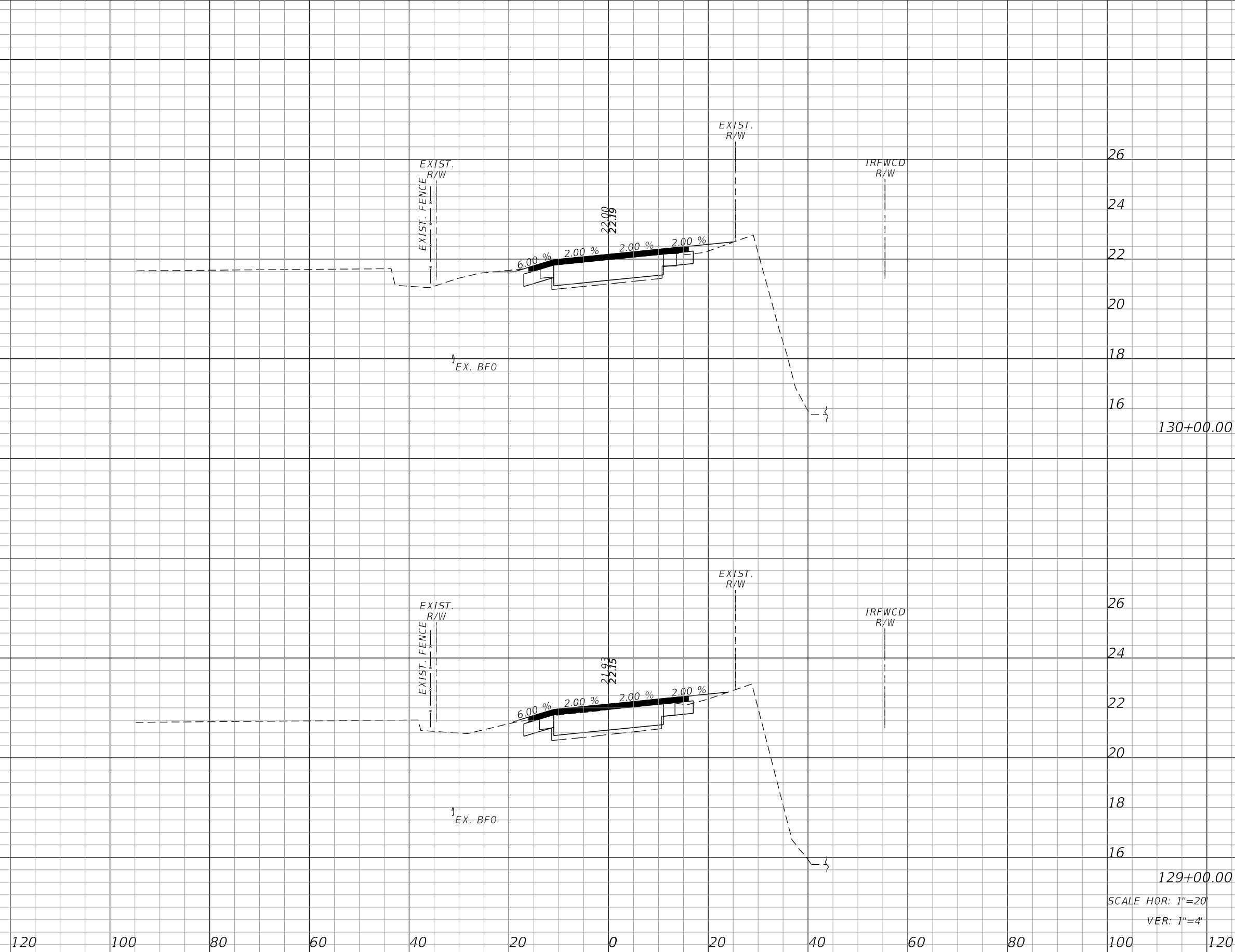
69TH STREET
 CROSS SECTIONS

SHEET NO.
 46

Regular Exc. A V Embankment A V

1639 I.R.CO. Proj. No.

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25.3

91.3

6.3

24.0

88.0

7.0

SCALE HOR: 1"=20'
VER: 1"=4'

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

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

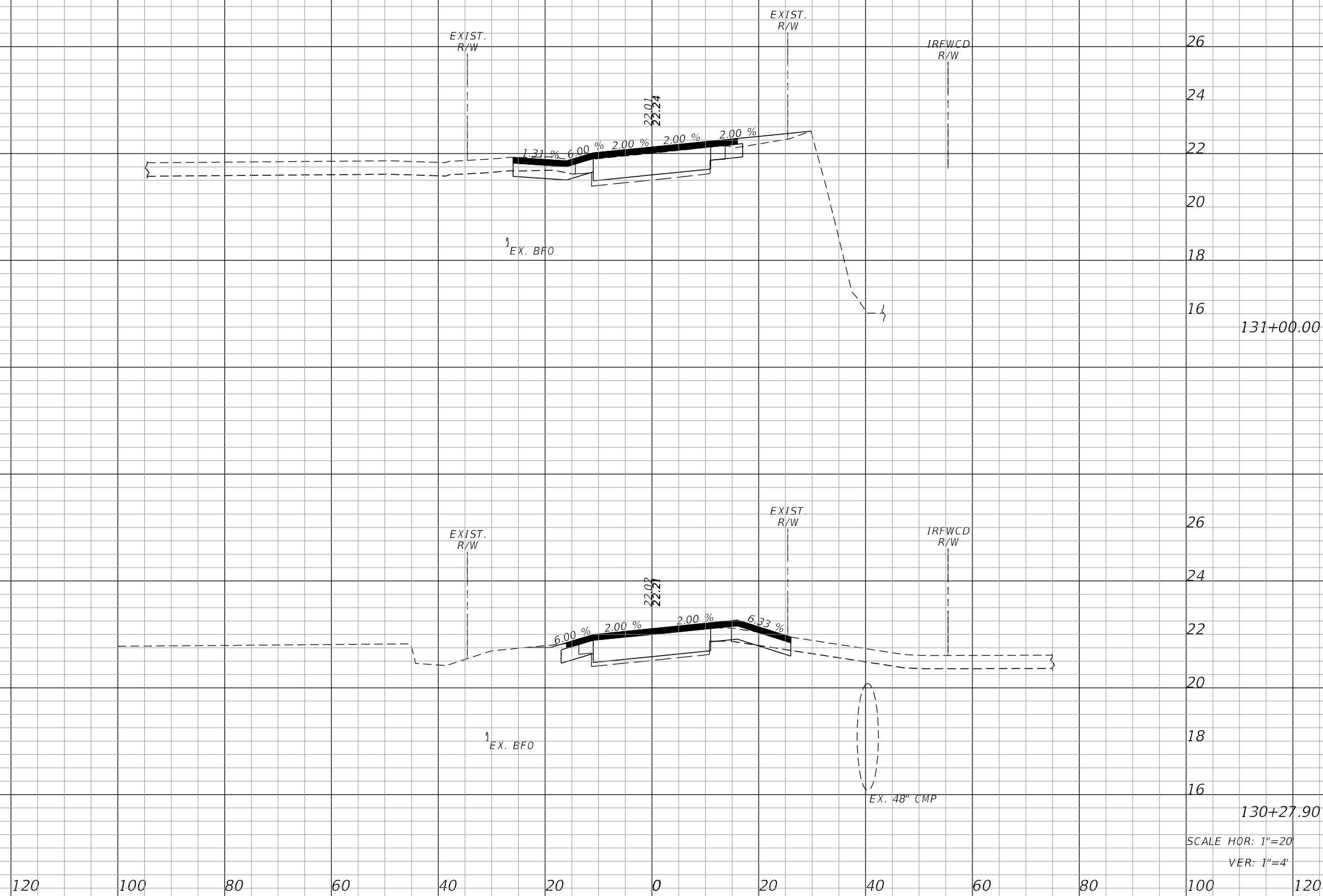
69TH STREET
 CROSS SECTIONS

SHEET NO.
 47

Regular Exc. Embankment
 A V A V

1639
 I.R.CO. Proj. No.

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REVISIONS					
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INDIAN RIVER COUNTY
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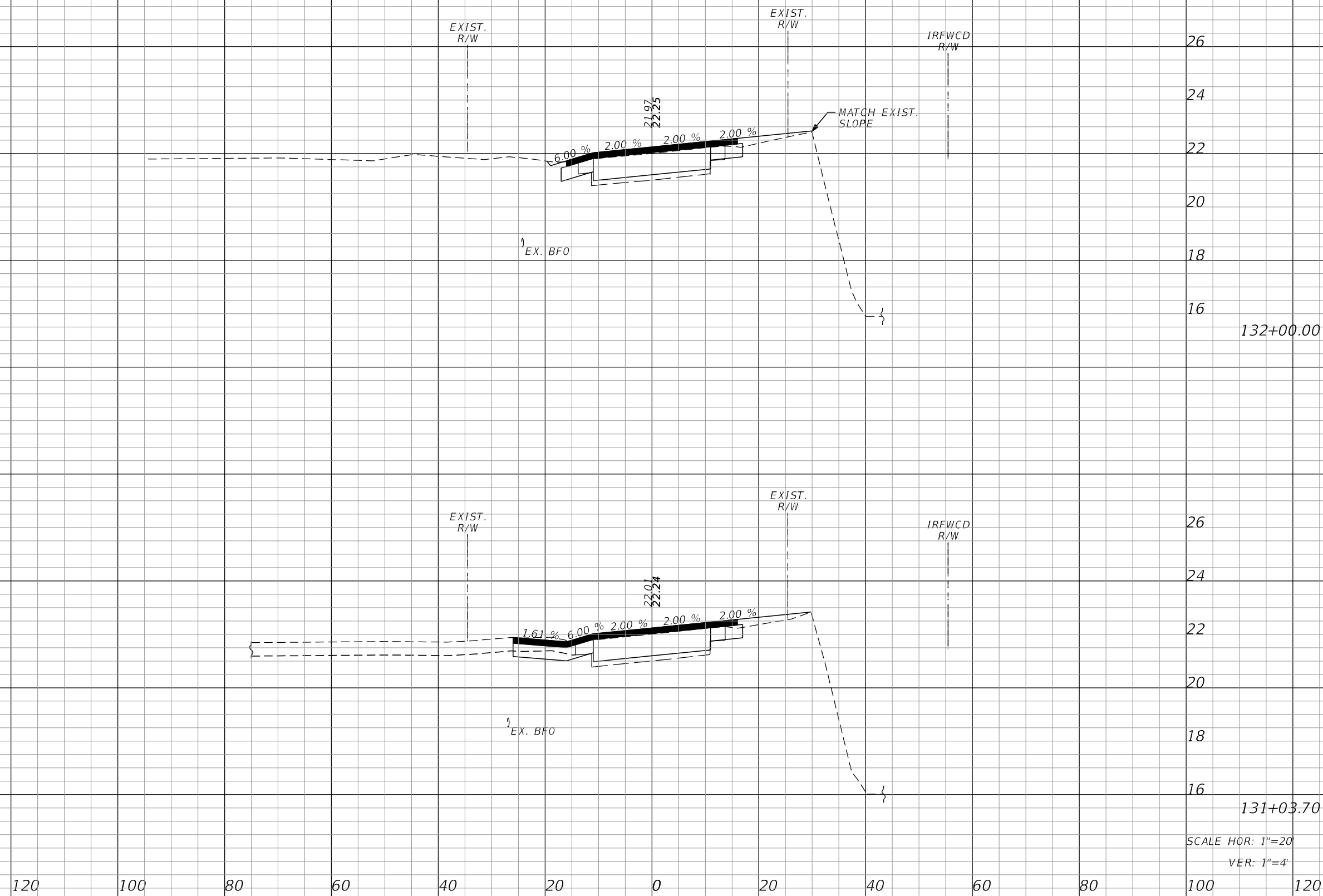
69TH STREET
 CROSS SECTIONS

SHEET NO.
 48

Regular Exc. A V Embankment A V

1639 I.R.CO. Proj. No.

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Station	Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
132+00.00	23.9	98.6	2.6	9.8
131+03.70	31.4	4.3	2.9	0.4

SCALE HOR: 1"=20'
VER: 1"=4'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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INDIAN RIVER COUNTY
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 69TH STREET FROM 66TH AVENUE
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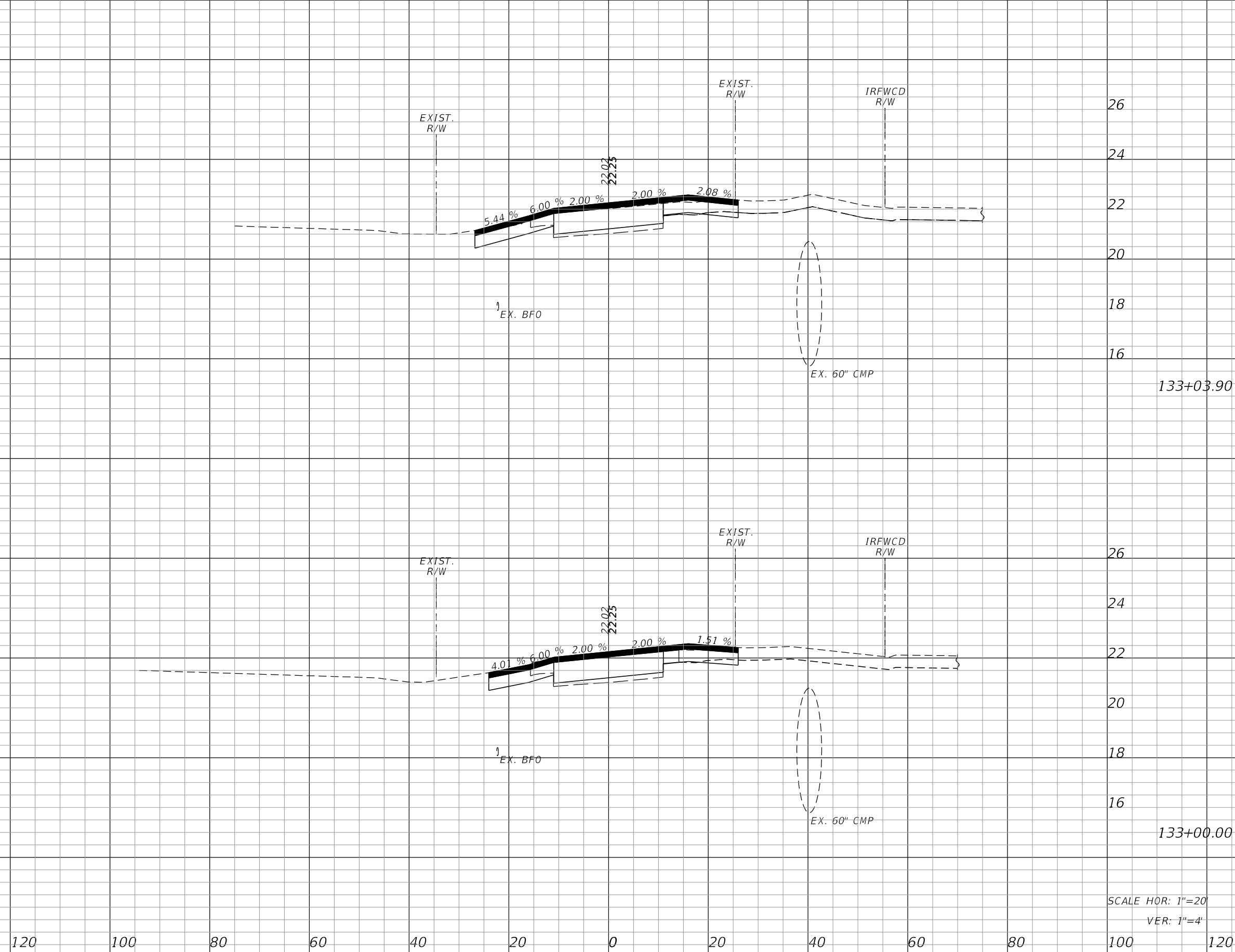
69TH STREET
 CROSS SECTIONS

SHEET NO.
 49

Regular Exc. A V Embankment A V

1639 I.R.CO. Proj. No.

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Station	Regular Exc.		Embankment	
	A	V	A	V
133+03.90	35.7	5.2	0.0	0.0
133+00.00	36.4	111.7	0.0	4.8

SCALE HOR: 1"=20'
VER: 1"=4'

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

REVISIONS					
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

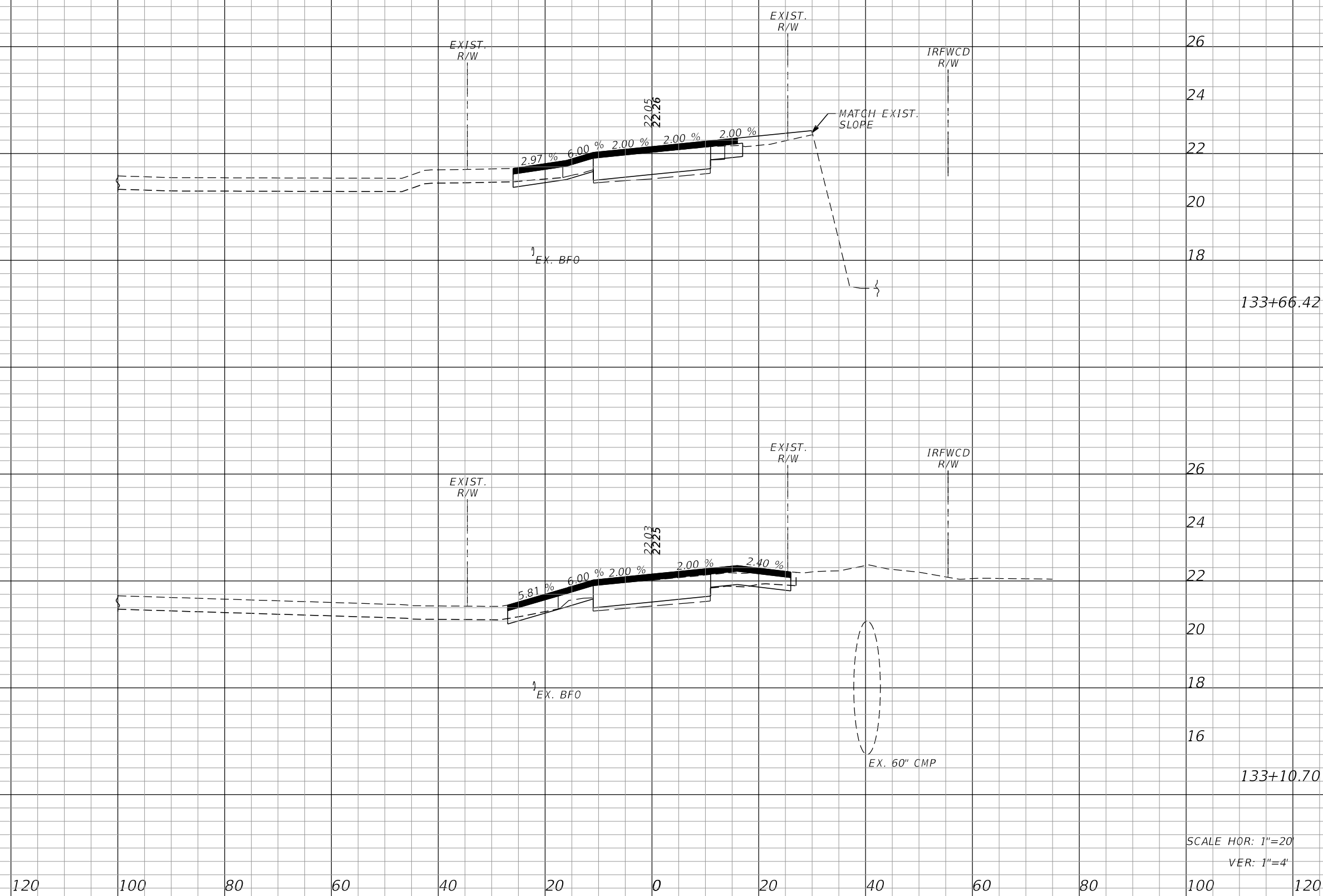
69TH STREET
 CROSS SECTIONS

SHEET NO.
 50

Regular Exc. A V Embankment A V

1639 I.R.CO. Proj. No.

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26			
24			
22			
20			
18		69.4	4.1
	133+66.42	30.8	4.0
26			
24			
22			
20			
18			
16		9.1	0.0
	133+10.70	36.5	0.0

SCALE HOR: 1"=20'
VER: 1"=4'

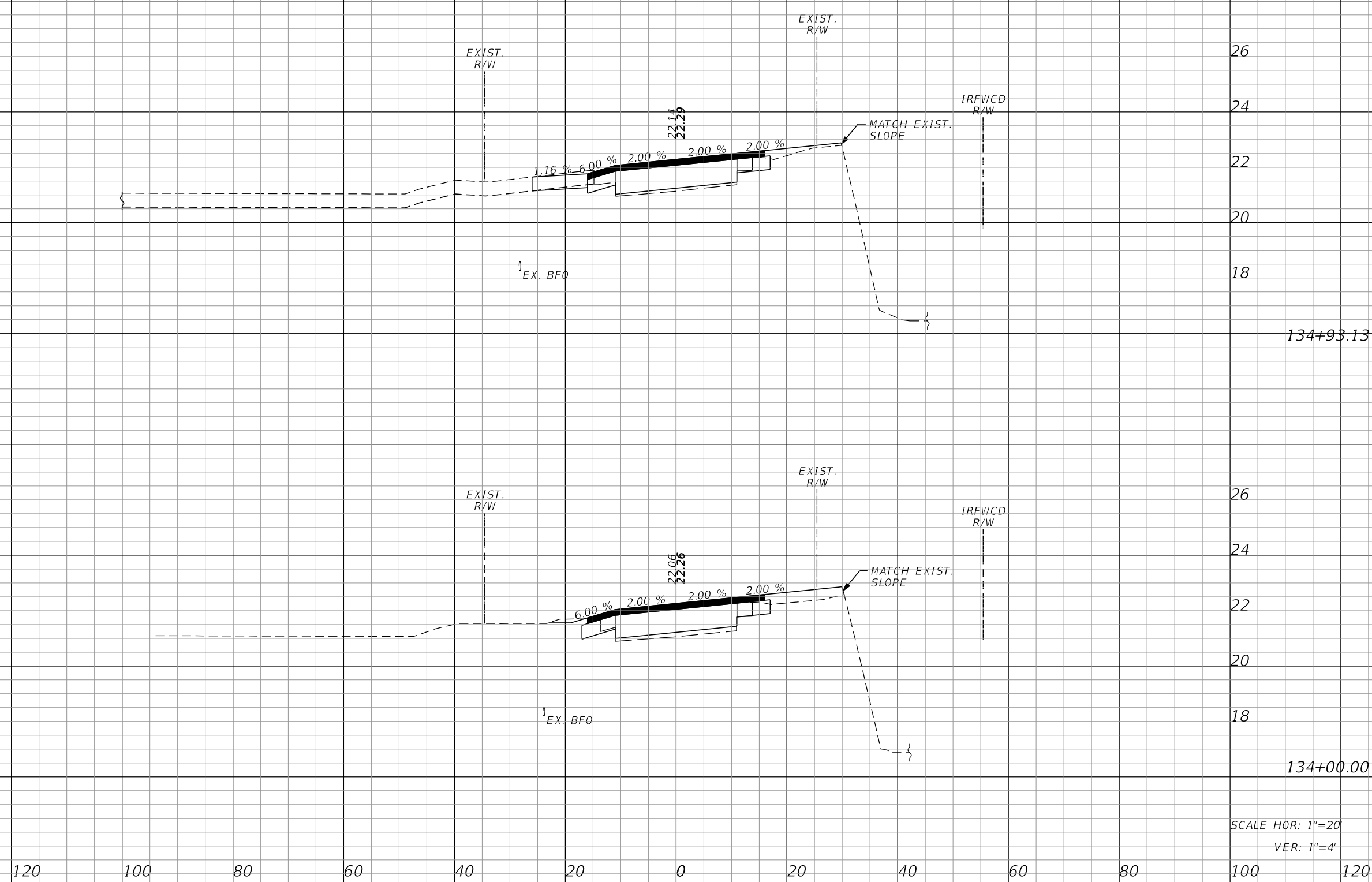
REVISIONS			
DATE	BY	DESCRIPTION	

Kimley»Horn
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

69TH STREET
 CROSS SECTIONS

SHEET NO.
 51



134+93.13	32.0	99.3	2.4	12.8
134+00.00	25.6	35.1	5.0	5.6

SCALE HOR: 1"=20'
VER: 1"=4'

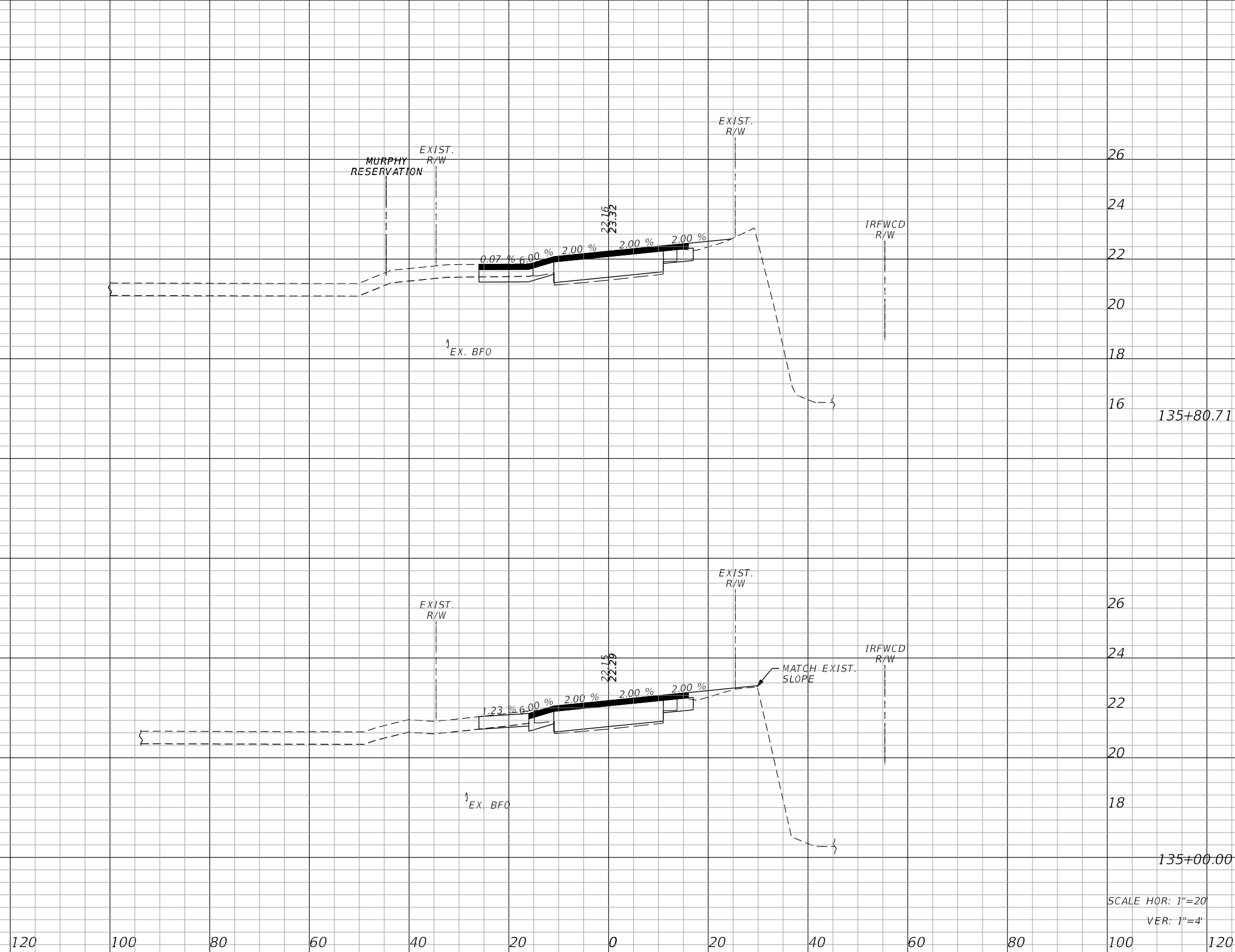
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

69TH STREET
 CROSS SECTIONS

SHEET NO.
 52



Regular Exc.		Embankment	
A	V	A	V
33.1	97.6	1.6	5.7
32.2	8.2	2.2	0.6

SCALE HOR: 1"=20'
VER: 1"=4'

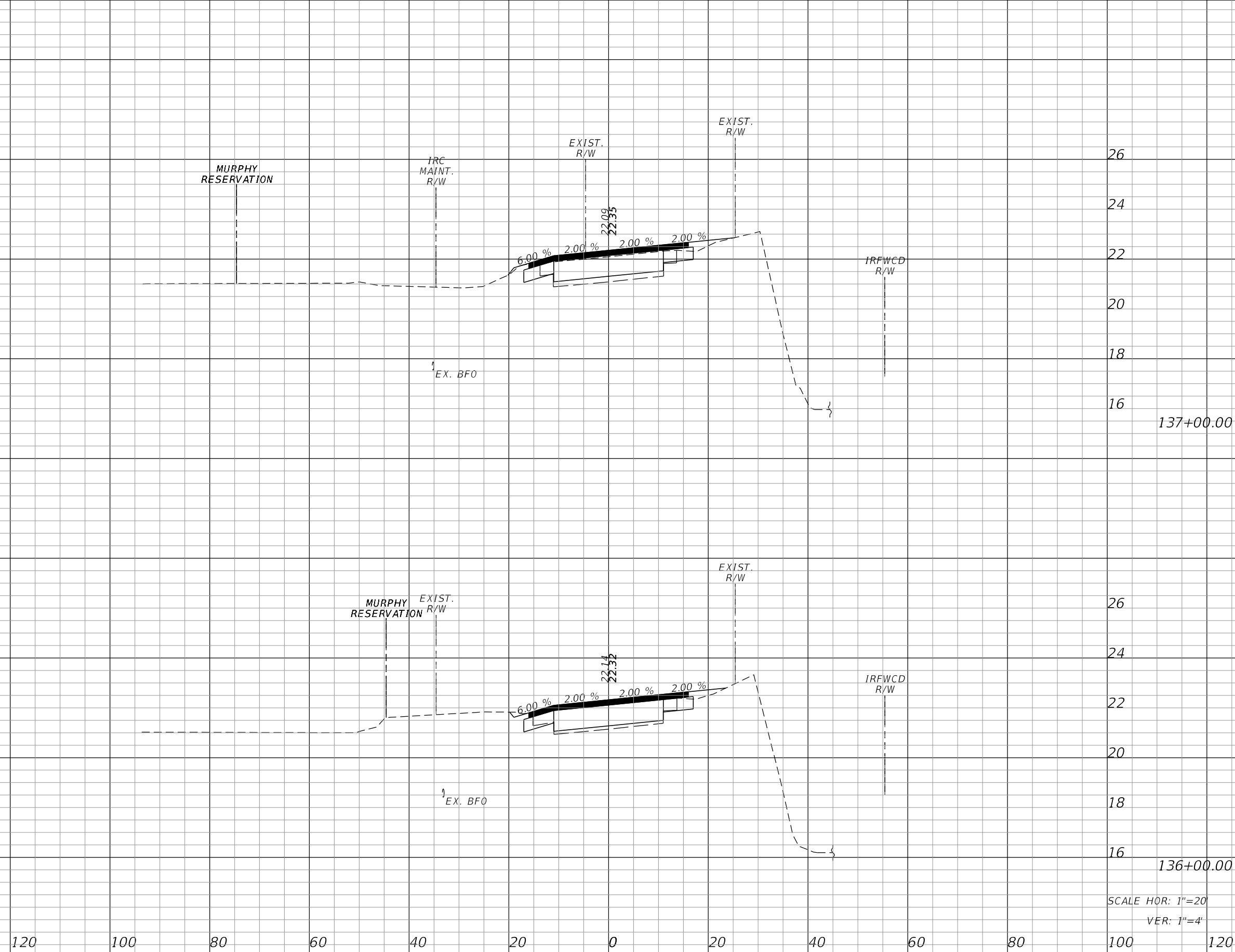
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

69TH STREET
 CROSS SECTIONS

SHEET NO.
 53



Station	Regular		Exc.		Embankment	
	A	V	A	V	A	V
137+00.00	23.2	90.9	1.8	6.1		
136+00.00	25.9	21.1	1.5	1.1		

SCALE HOR: 1"=20'
VER: 1"=4'

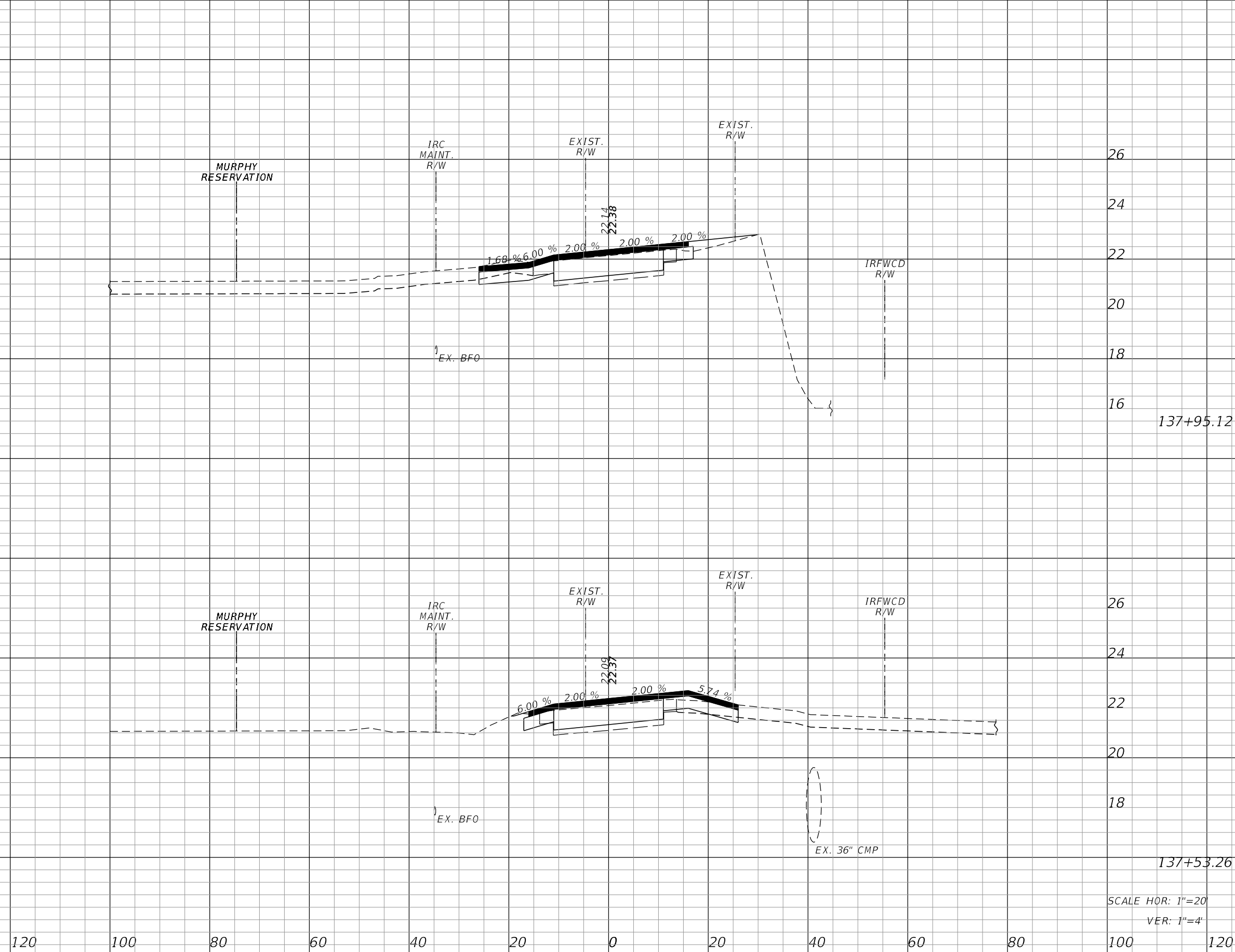
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
 445 24TH STREET, SUITE 200
 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

69TH STREET
 CROSS SECTIONS

SHEET NO.
 54



Regular		Exc.		Embankment	
A	V	A	V	A	V
30.9	45.3	3.0	2.3		
27.5	50.0	0.0	1.8		

SCALE HOR: 1"=20'
VER: 1"=4'

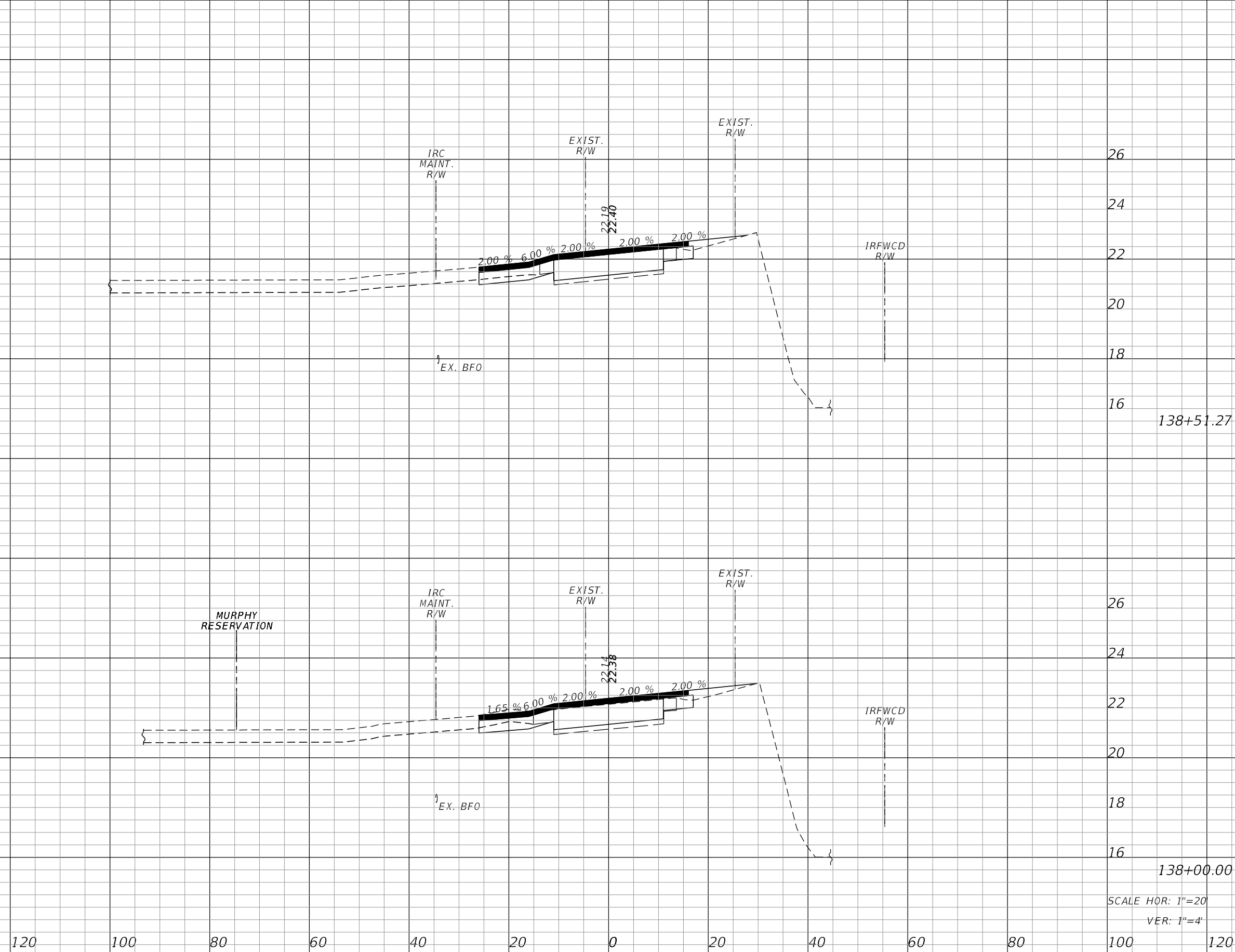
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

69TH STREET
 CROSS SECTIONS

SHEET NO.
 55



Regular Exc.		Embankment	
A	V	A	V
30.9	58.6	2.2	4.9
30.8	5.6	3.0	0.5

SCALE HOR: 1"=20'
VER: 1"=4'

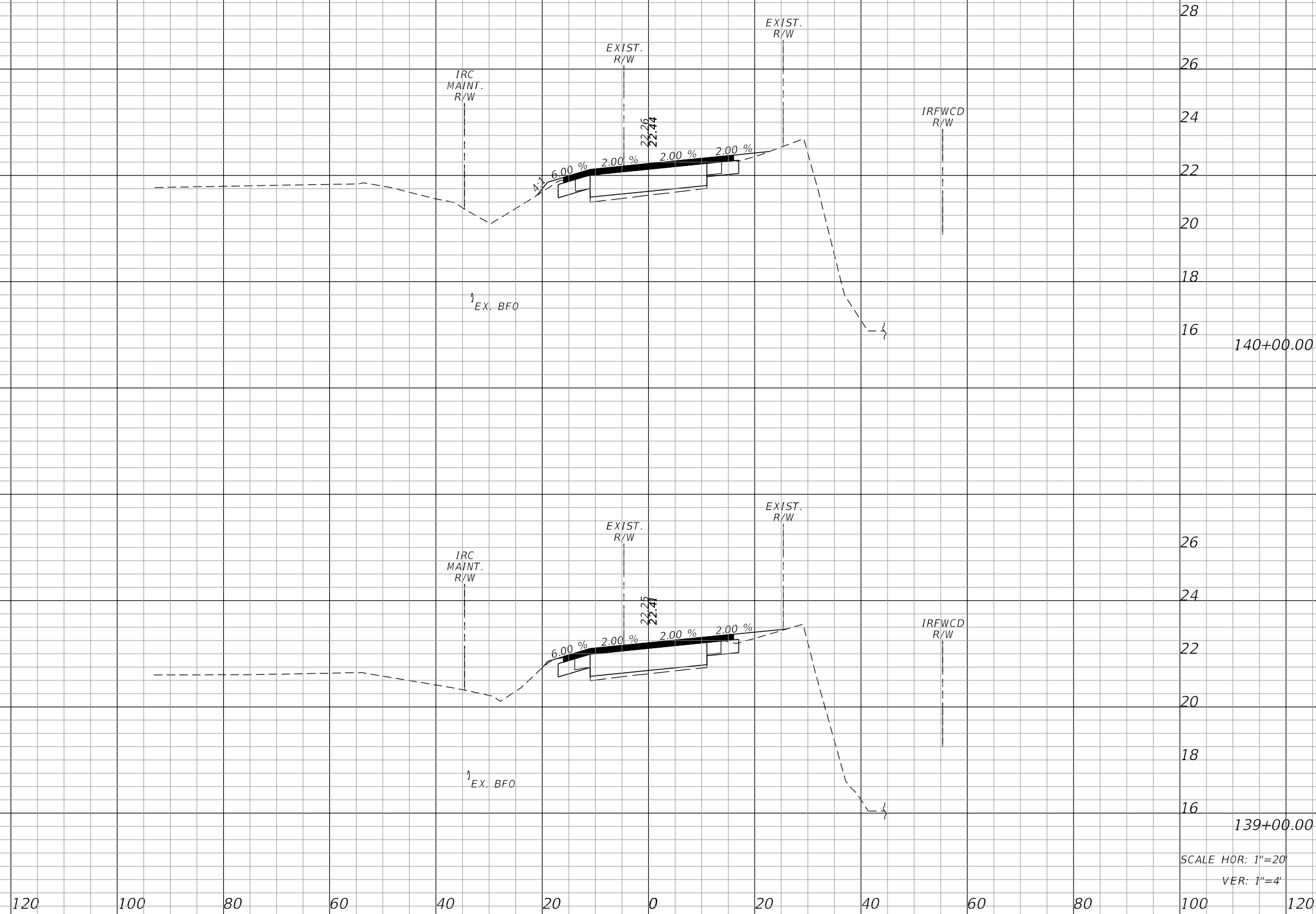
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
 445 24TH STREET, SUITE 200
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 (772) 794-4100
 REGISTRY No. 696

**INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING**

**69TH STREET
 CROSS SECTIONS**

SHEET NO.
56



Station	Regular Exc.		Embankment	
	A	V	A	V
140+00.00	25.3	94.3	1.6	6.5
139+00.00	25.6	51.0	1.9	3.7

SCALE HOR: 1"=20'
VER: 1"=4'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
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 (772) 794-4100
 REGISTRY No. 696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

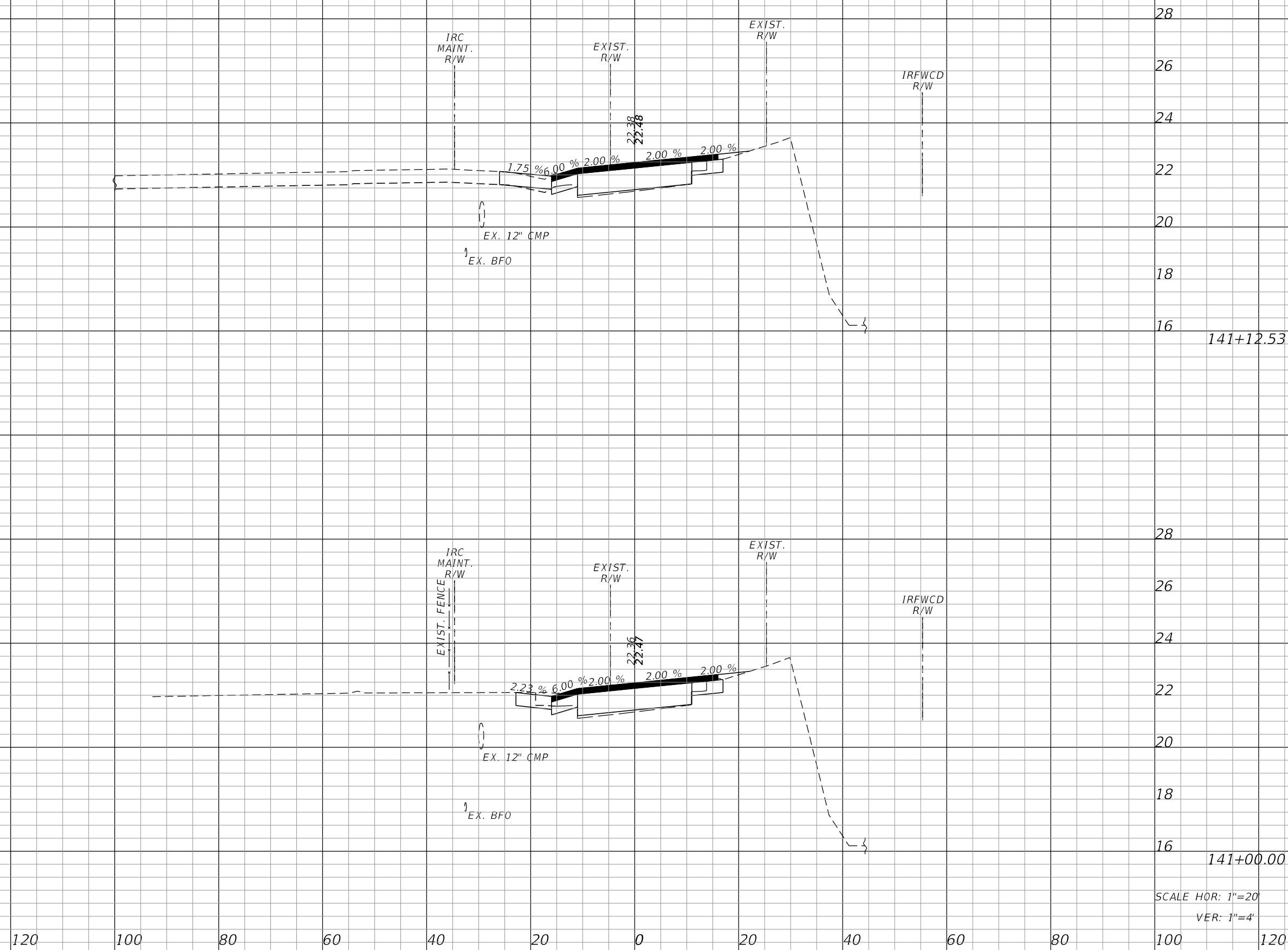
69TH STREET
 CROSS SECTIONS

SHEET NO.
 57

Regular Exc. A V Embankment A V

1639 I.R.CO. Proj. No.

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Regular Exc.		Embankment	
A	V	A	V
32.7	14.9	0.7	0.3
31.6	105.4	0.7	4.3

SCALE HOR: 1"=20'
VER: 1"=4'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
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 P.E. LICENSE NUMBER 56939
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 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

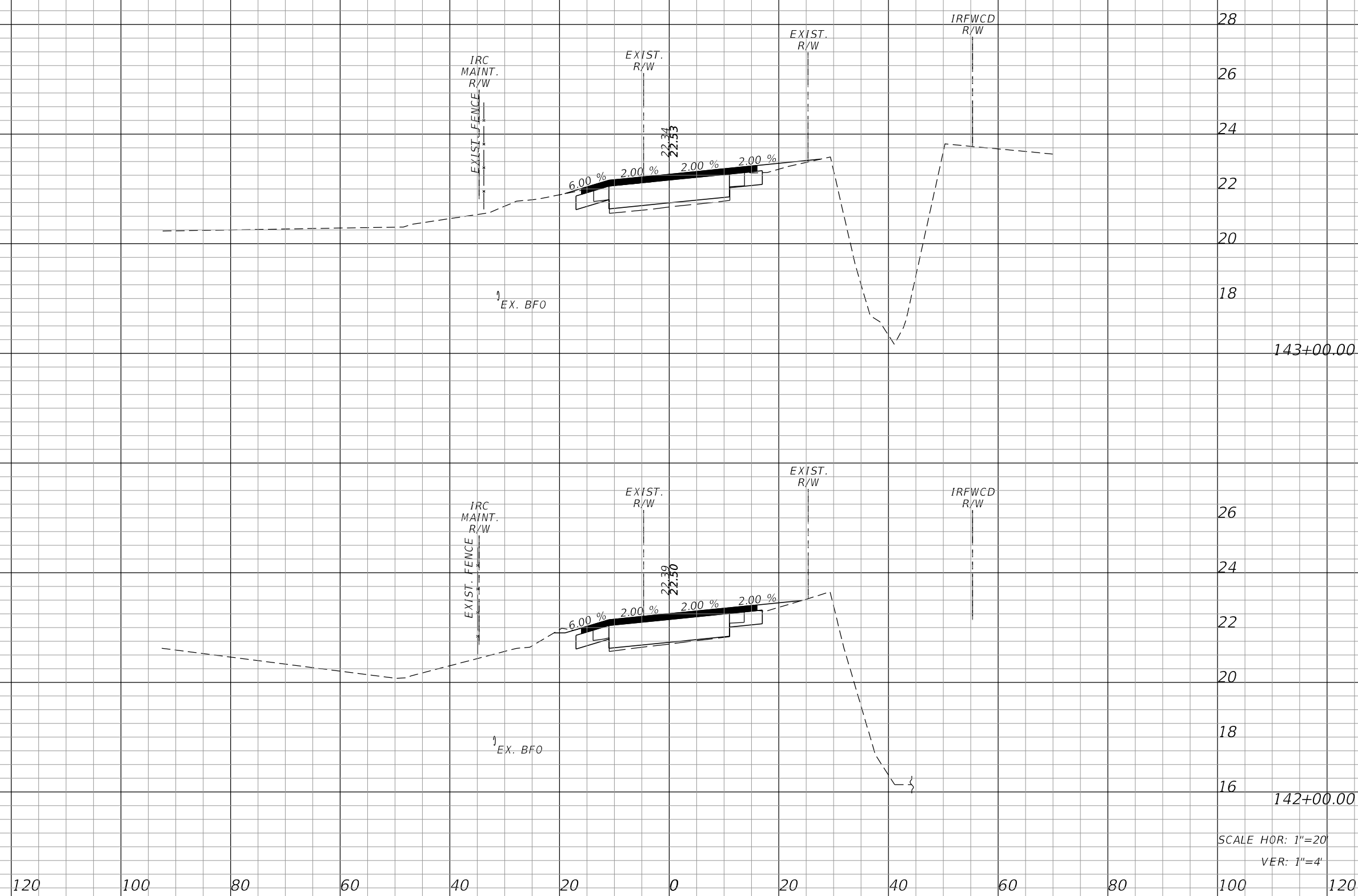
INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

69TH STREET
 CROSS SECTIONS

SHEET NO.
 58

Regular Exc. A V Embankment A V

1639 I.R.CO. Proj. No. THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



143+00.00	24.9	97.8	1.9	5.7
142+00.00	27.9	98.2	1.2	3.1

SCALE HOR: 1"=20'
VER: 1"=4'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

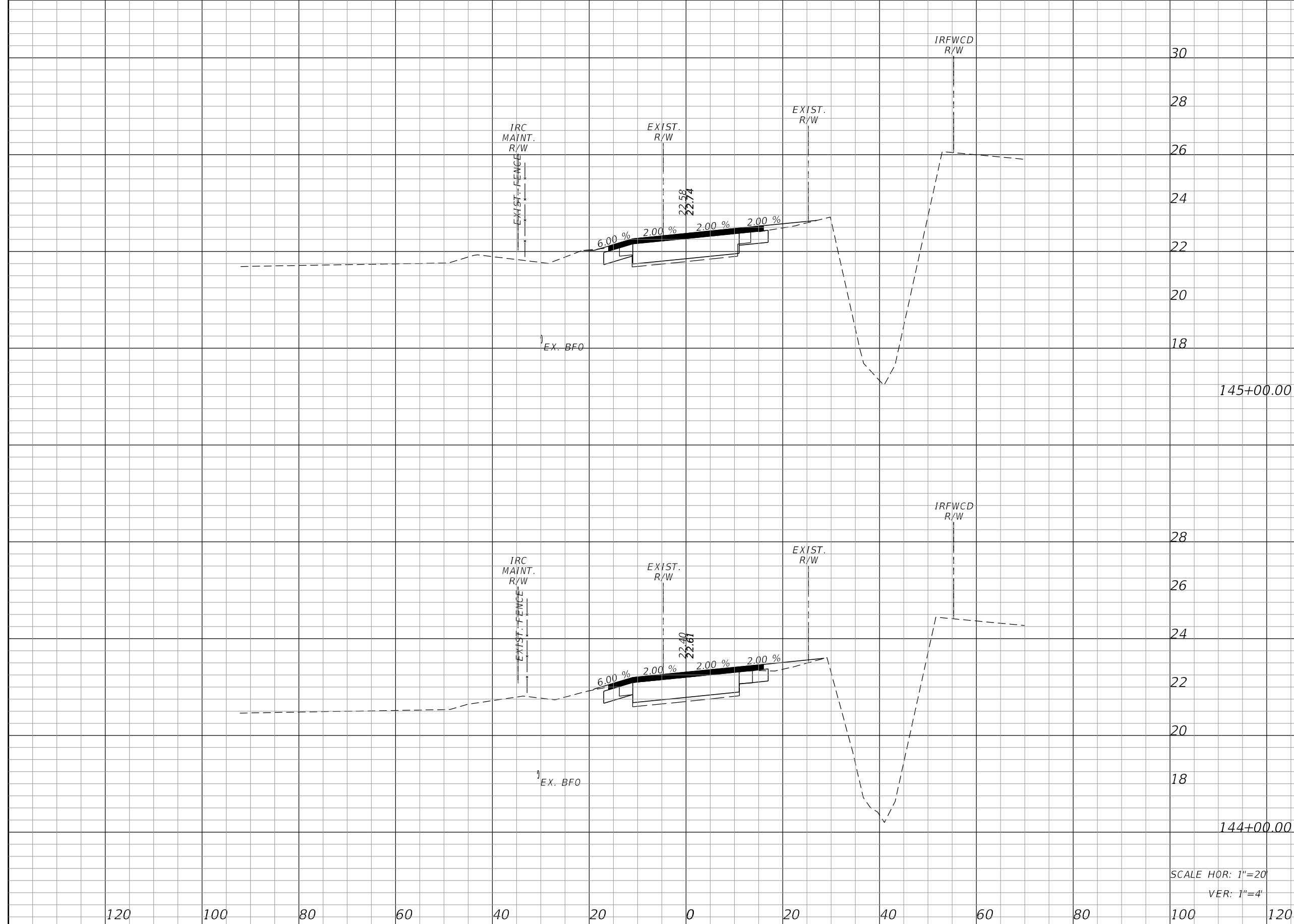
69TH STREET
 CROSS SECTIONS

SHEET NO.
 59

Regular Exc. A V Embankment A V

1639 I.R.CO. Proj. No.

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Station	Regular Exc.		Embankment	
	A	V	A	V
145+00.00	26.2	94.1	1.6	7.8
144+00.00	24.6	91.7	2.6	8.3

SCALE HOR: 1"=20'
VER: 1"=4'

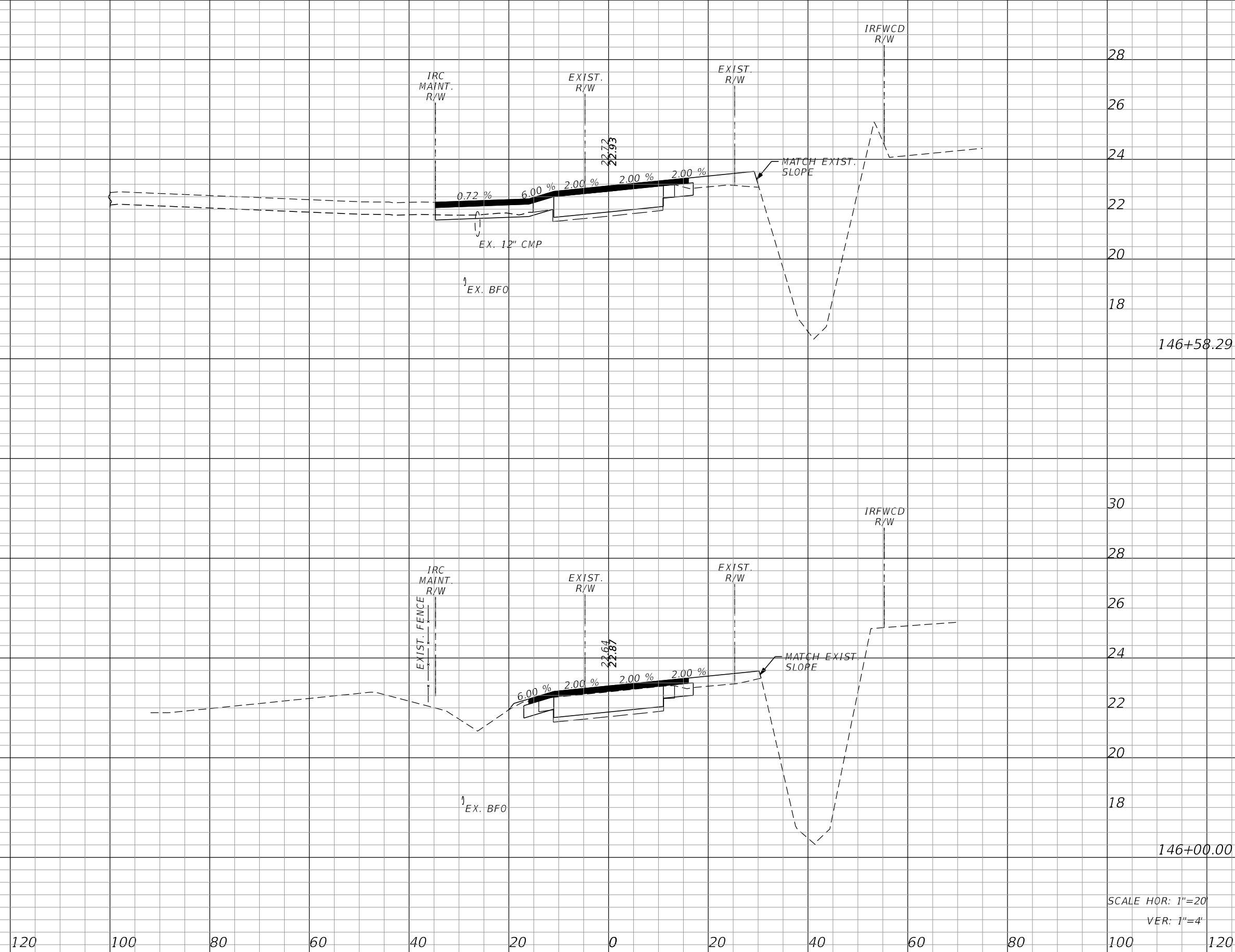
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

69TH STREET
 CROSS SECTIONS

SHEET NO.
 60



146+58.29

146+00.00

SCALE HOR: 1"=20'
VER: 1"=4'

Station	Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
146+58.29	36.1	64.2	5.8	12.4
146+00.00	23.4	91.9	5.7	13.5

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

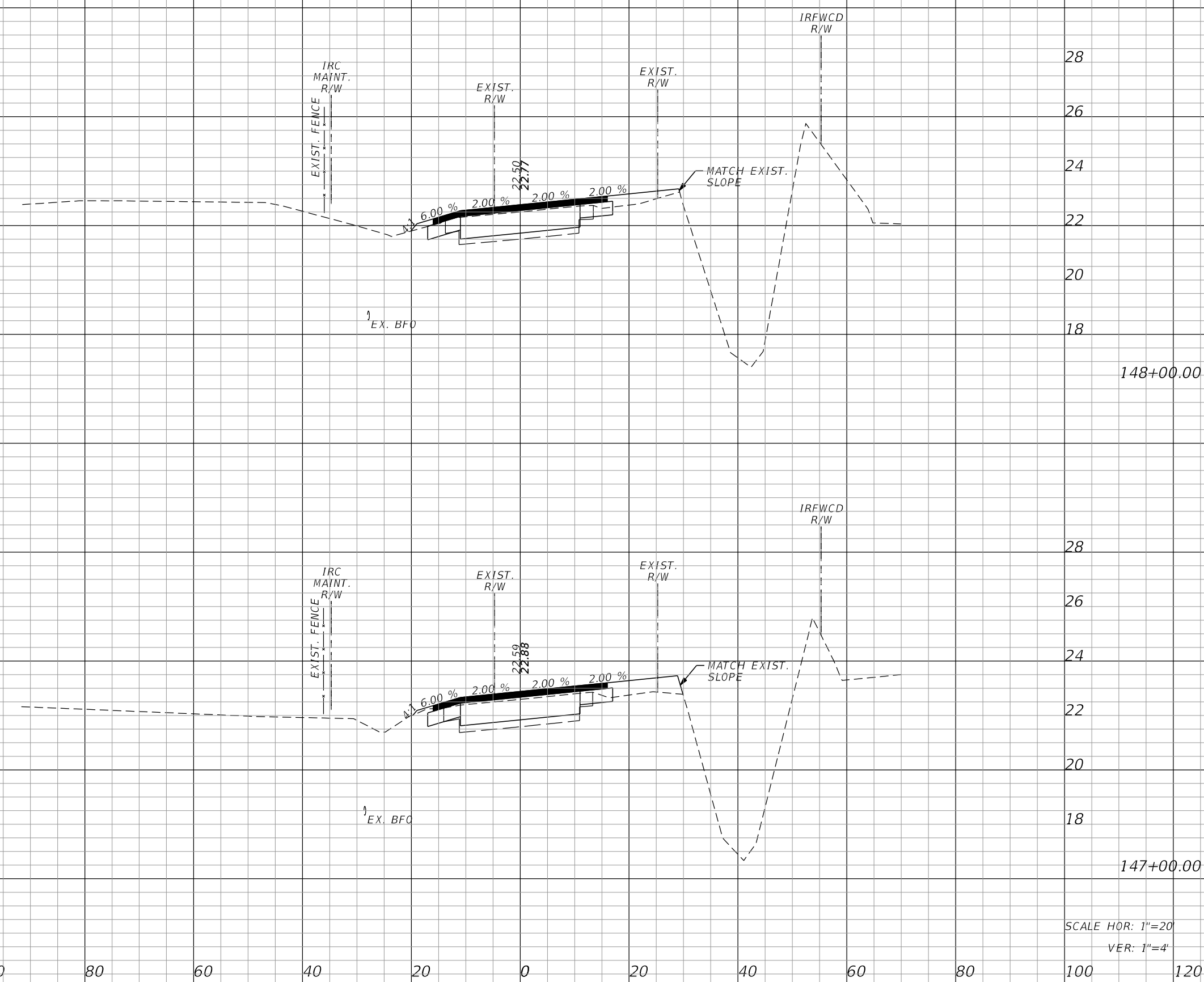
69TH STREET
 CROSS SECTIONS

SHEET NO.
 61

Regular Exc. A V Embankment A V

1639 I.R.CO. Proj. No.

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Station	Regular Exc.		Embankment	
	A	V	A	V
148+00.00	20.8	77.4	5.5	23.1
147+00.00	21.0	44.1	7.0	9.9

SCALE HOR: 1"=20'
VER: 1"=4'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
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 P.E. LICENSE NUMBER 56939
 445 24TH STREET, SUITE 200
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 REGISTRY No. 696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

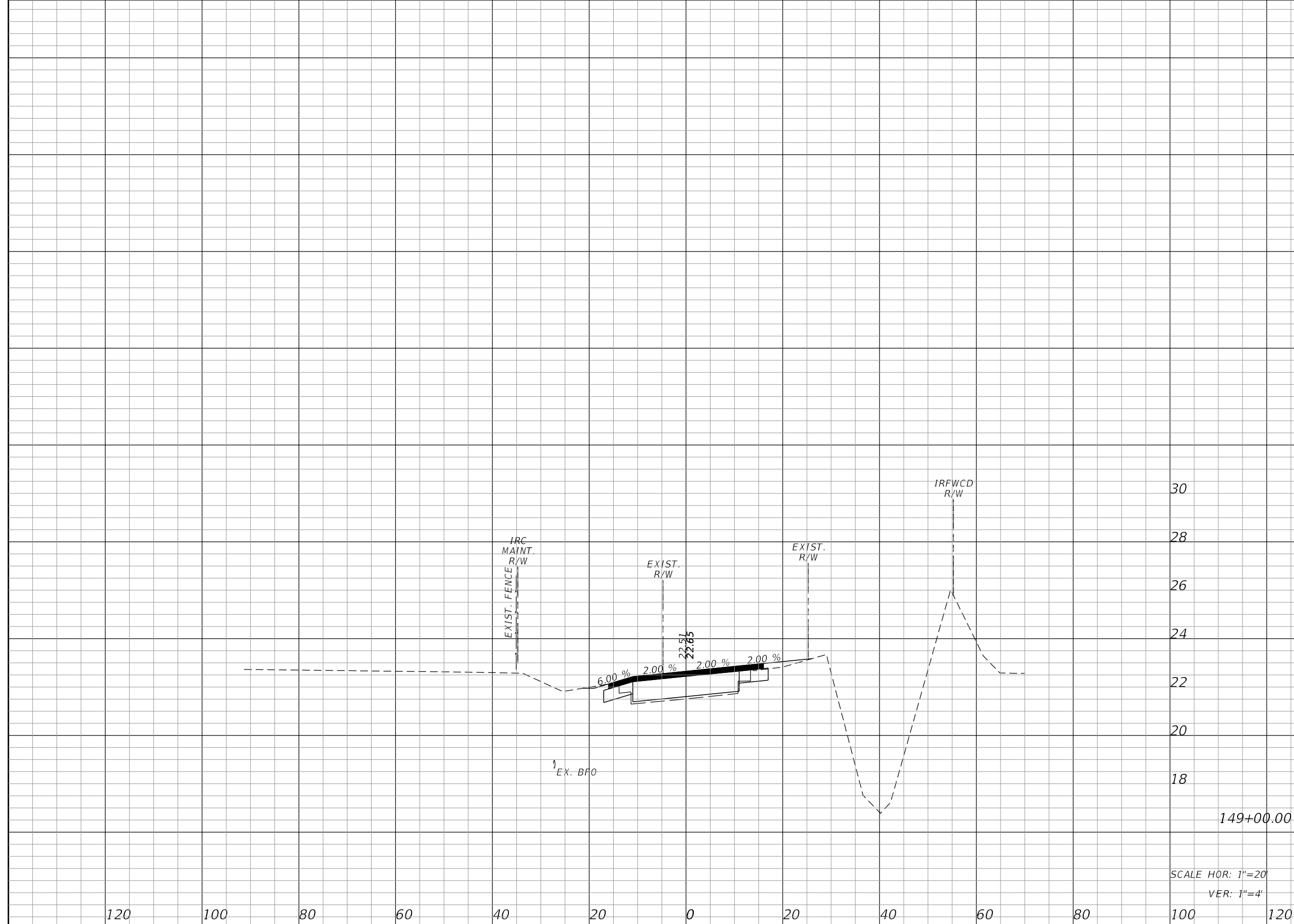
69TH STREET
 CROSS SECTIONS

SHEET NO.
 62

Regular Exc. Embankment
 A V A V

IRCO Proj. No. 1639

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



Station	Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
149+00.00	24.3	83.5	2.5	14.8

SCALE HOR: 1"=20'
 VER: 1"=4'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
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 P.E. LICENSE NUMBER 56939
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

69TH STREET
 CROSS SECTIONS

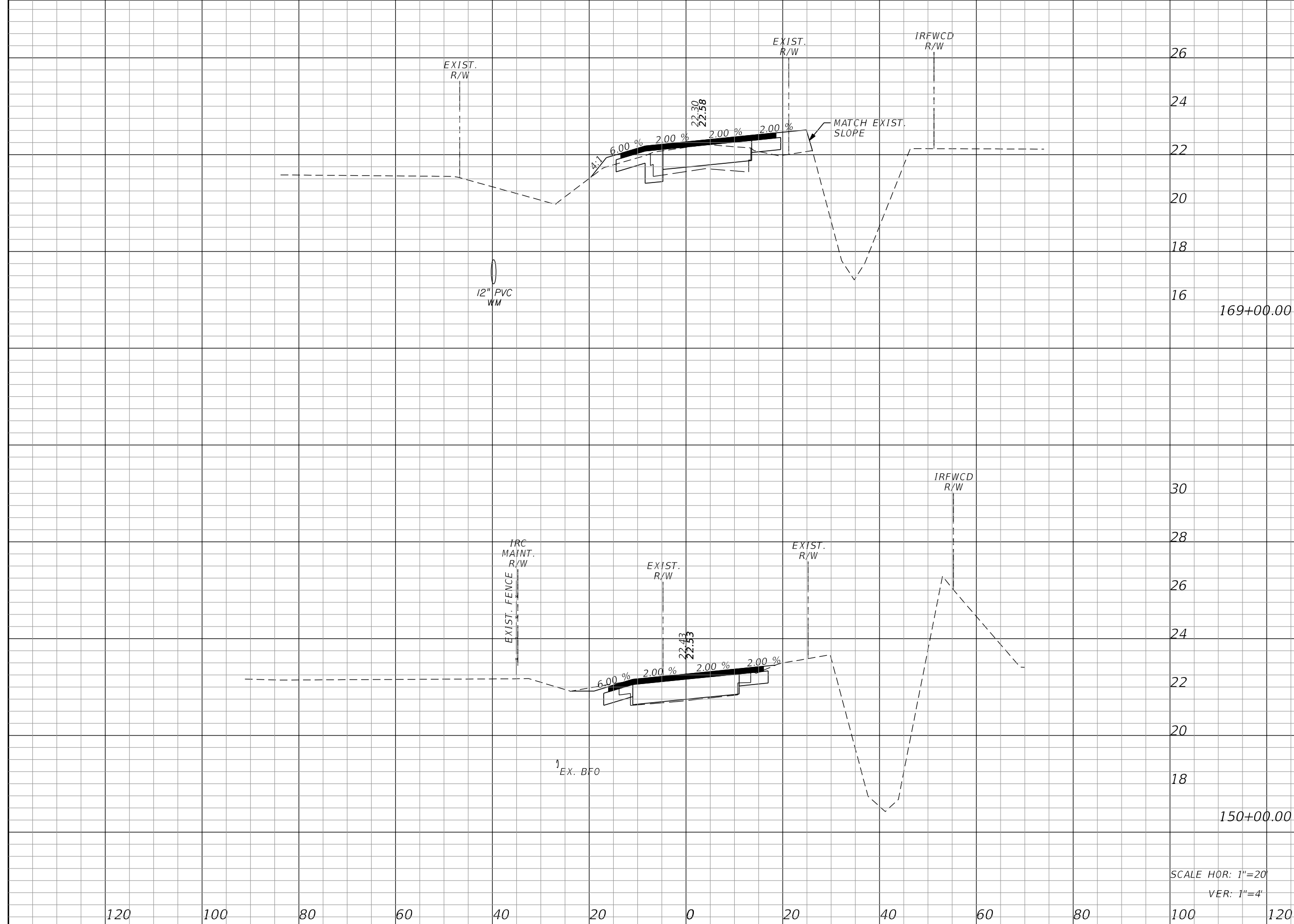
SHEET NO.
 63

Regular Exc. Embankment

A V A V

1639
I.R.CO. Proj. No.

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

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P.E. LICENSE NUMBER 56939
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
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REGISTRY No. 696

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
69TH STREET FROM 66TH AVENUE
TO SR5/US-1, RESURFACING

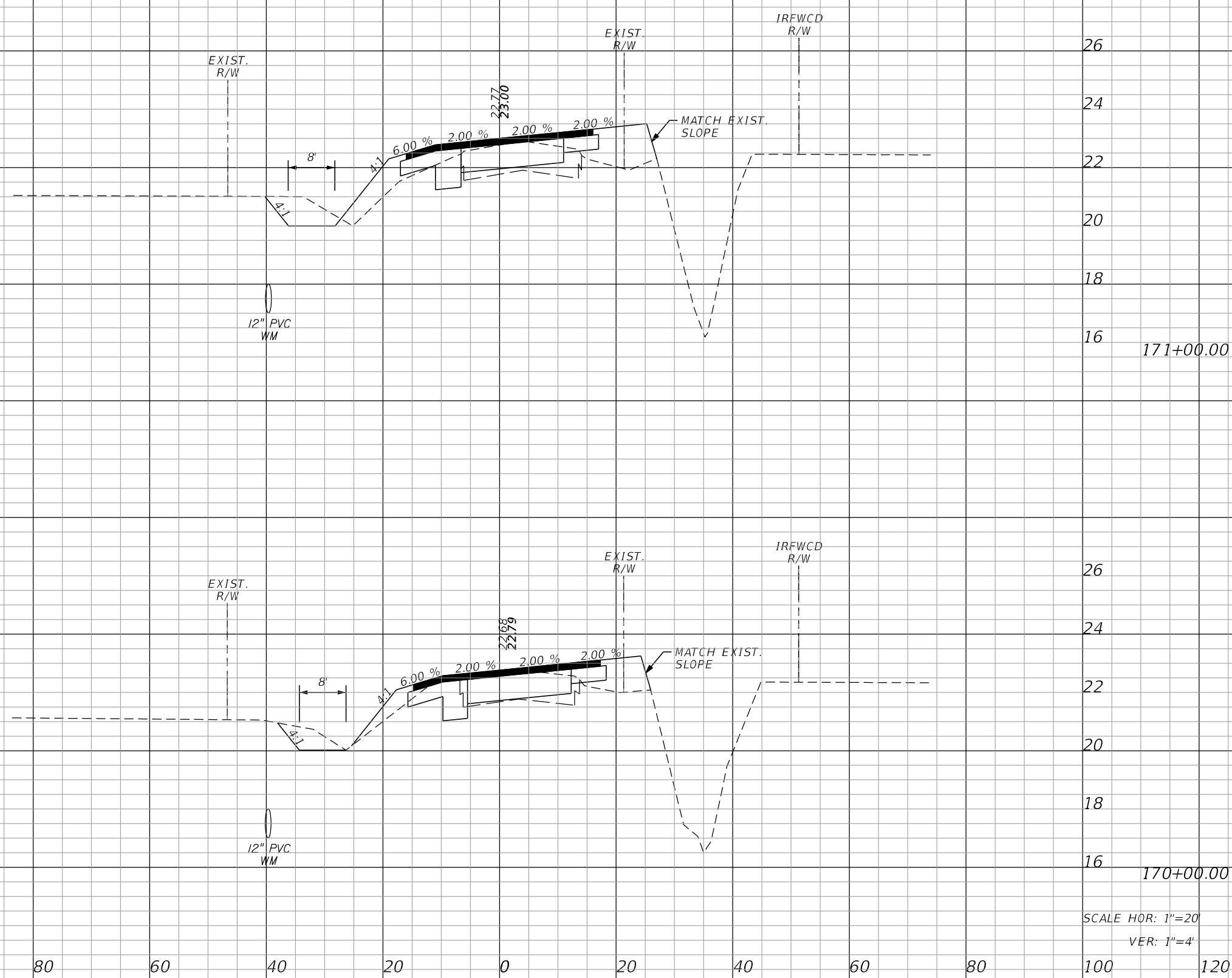
69TH STREET
CROSS SECTIONS

SHEET NO.
64

Regular Exc.		Embankment	
A	V	A	V

I.R.CO. Proj. No. 1639

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



Regular Exc.		Embankment	
A	V	A	V
18.0	75.2	21.2	67.0
22.6	74.1	15.0	50.7

SCALE HOR: 1"=20'
VER: 1"=4'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
 445 24TH STREET, SUITE 200
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 REGISTRY No. 696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

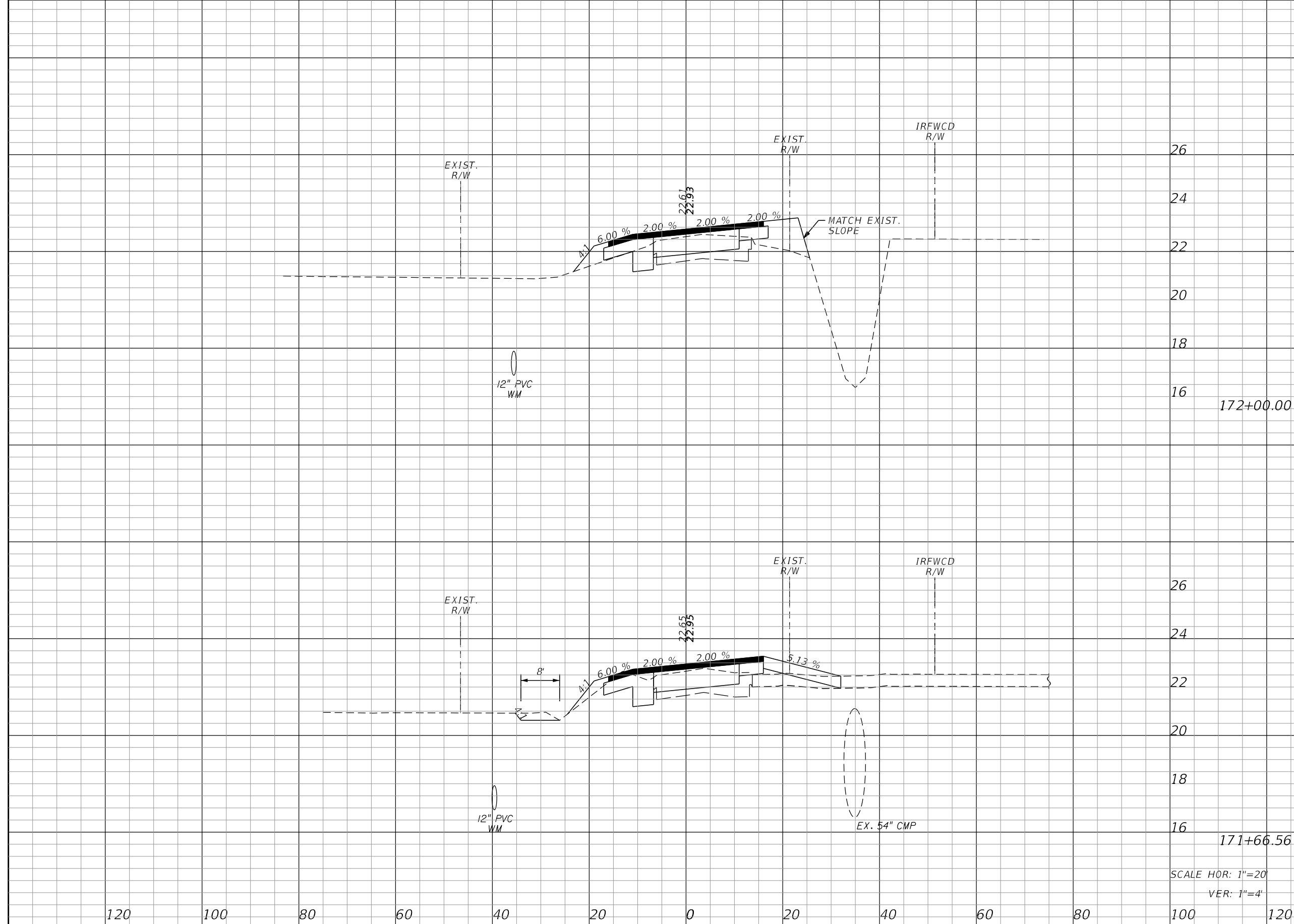
69TH STREET
 CROSS SECTIONS

SHEET NO.
 65

Regular		Exc.		Embankment	
A	V	A	V	A	V

I.R.CO. Proj. No. 1639

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



Regular		Exc.		Embankment	
A	V	A	V	A	V
16.5	24.9	10.7	8.5		
23.7	51.4	3.1	30.0		

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
 445 24TH STREET, SUITE 200
 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

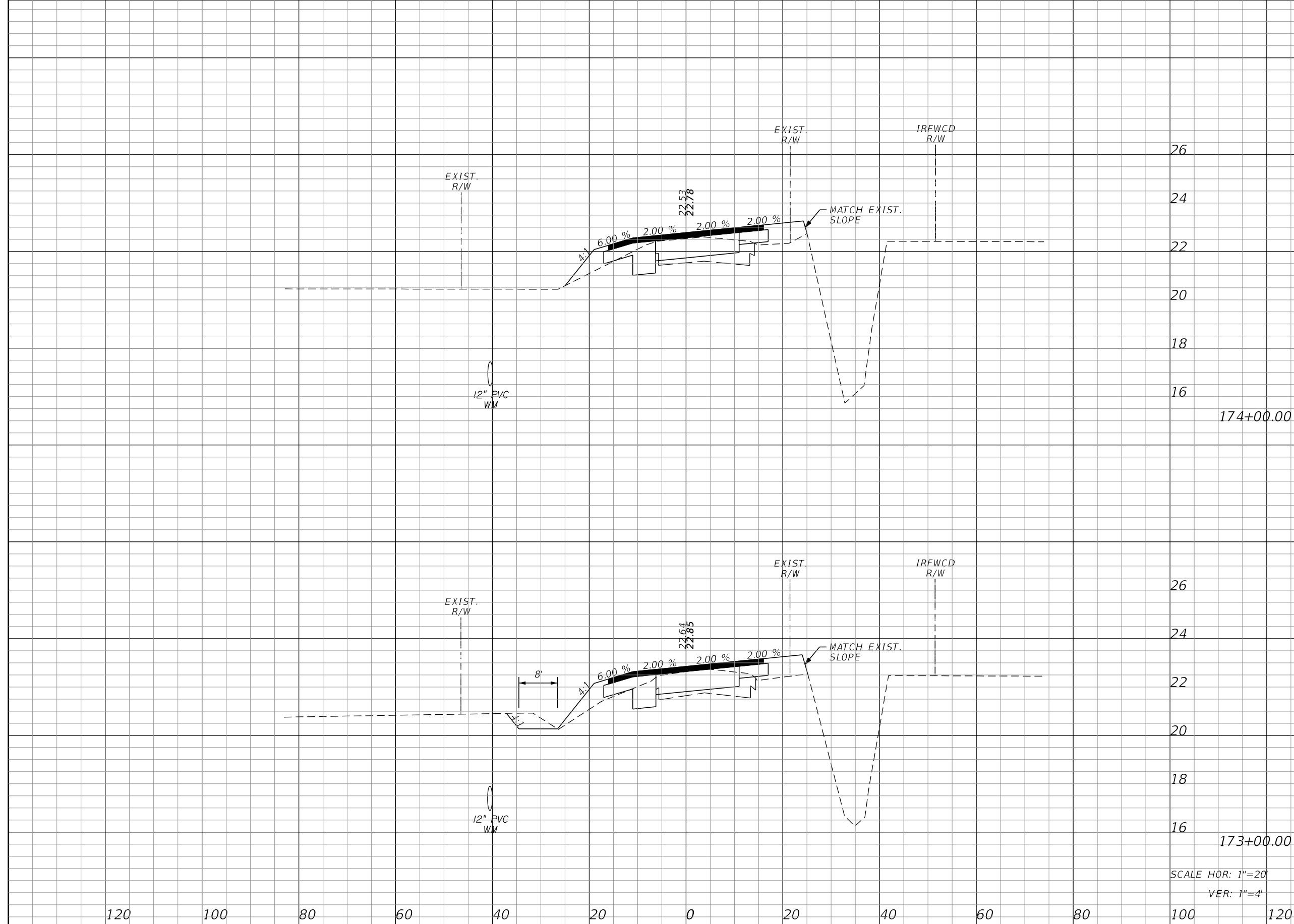
69TH STREET
 CROSS SECTIONS

SHEET NO.
 66

Regular Exc.		Embankment	
A	V	A	V

I.R.CO. Proj. No. 1639

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



Regular Exc.		Embankment	
A	V	A	V
18.7	69.3	10.9	43.0
18.7	65.2	12.3	42.6

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
 445 24TH STREET, SUITE 200
 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

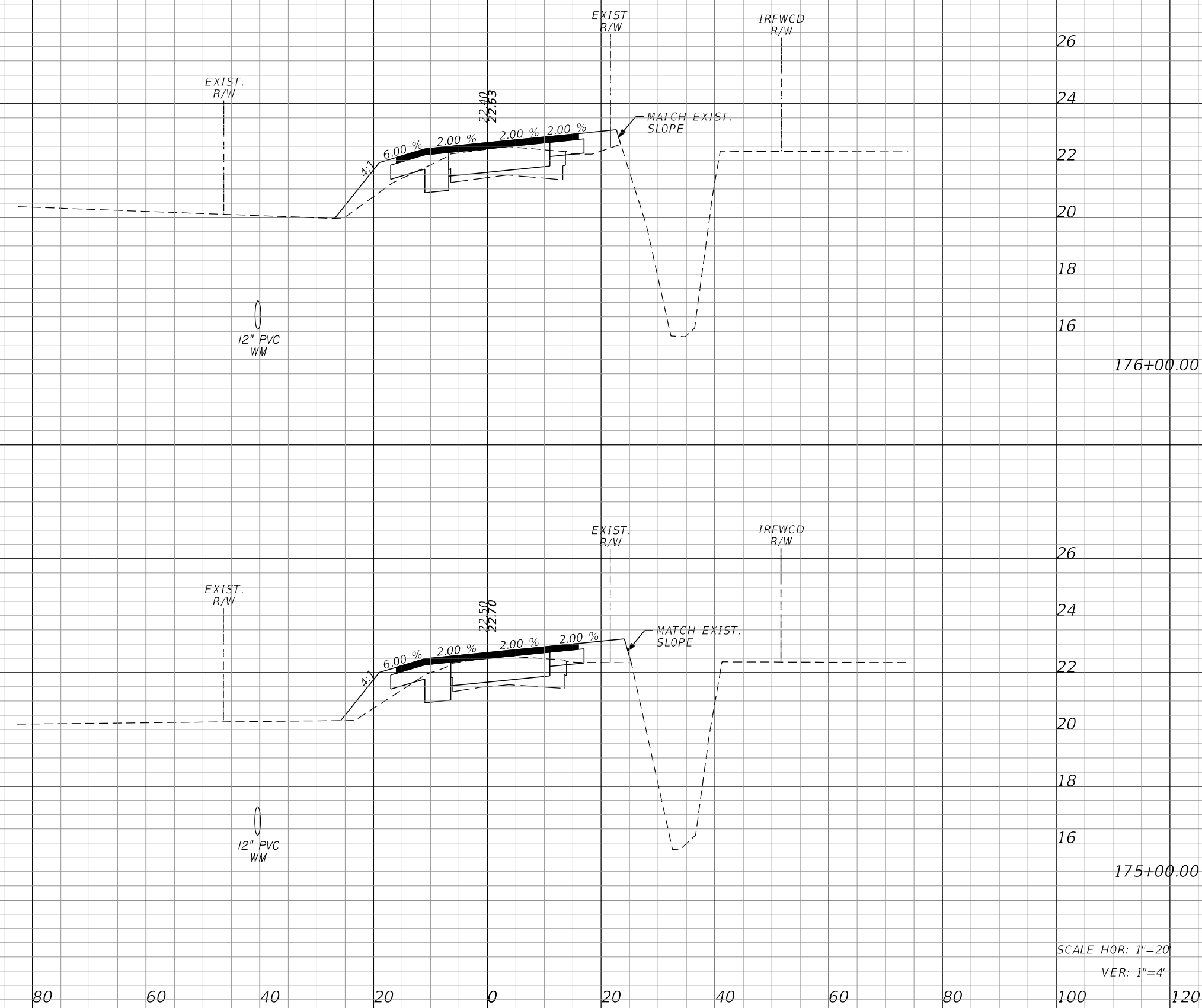
69TH STREET
 CROSS SECTIONS

SHEET NO.
 67

Regular Exc. Embankment
 A V A V

IRCO Proj. No. 1639

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



Regular Exc.		Embankment	
A	V	A	V
18.4	70.4	11.4	44.4
19.6	70.9	12.6	43.5

SCALE HOR: 1"=20'
 VER: 1"=4'

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

REVISIONS			
DATE	BY	DESCRIPTION	

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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

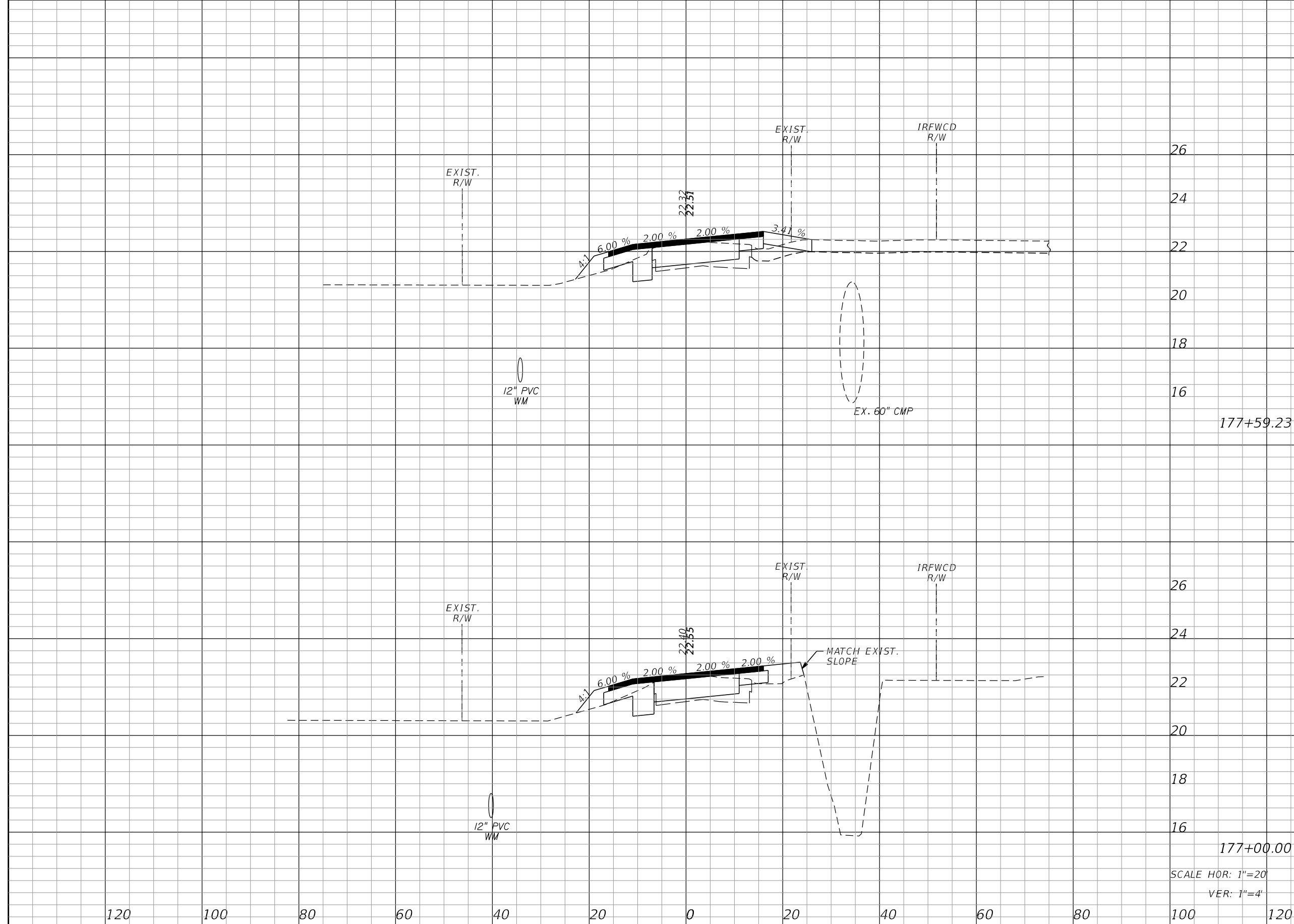
69TH STREET
 CROSS SECTIONS

SHEET NO.
 68

Regular		Exc.		Embankment	
A	V	A	V	A	V

I.R.CO. Proj. No. 1639

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Regular		Exc.		Embankment	
A	V	A	V	A	V
21.5	46.1	3.7	12.7		
20.5	72.0	7.9	35.7		

SCALE HOR: 1"=20'
VER: 1"=4'

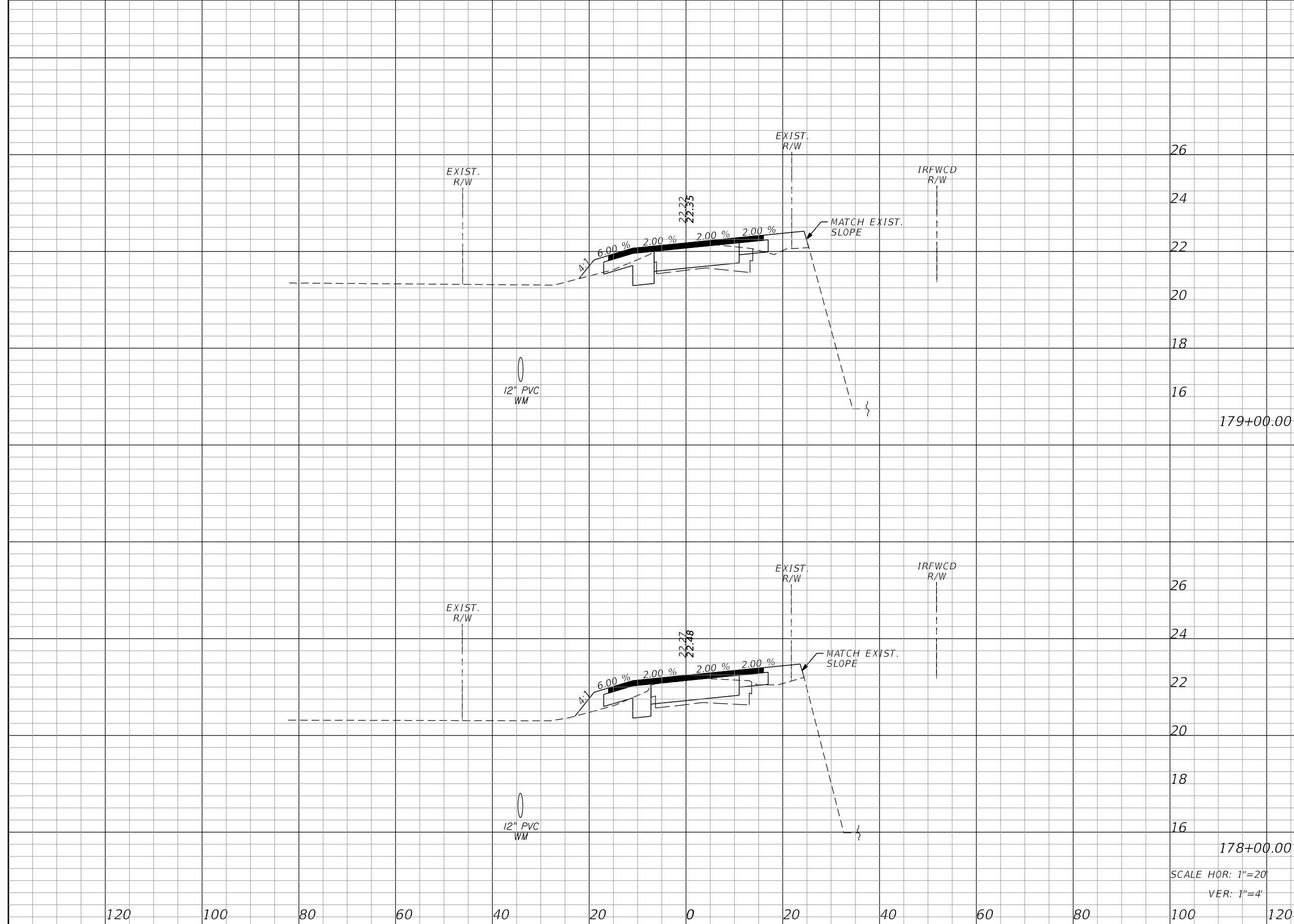
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
 445 24TH STREET, SUITE 200
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 (772) 794-4100
 REGISTRY No. 696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

69TH STREET
 CROSS SECTIONS

SHEET NO.
 69



Station	Regular Exc.		Embankment	
	A	V	A	V
179+00.00	21.7	75.2	7.8	30.0
178+00.00	18.9	30.5	8.4	9.1

SCALE HOR: 1"=20'
VER: 1"=4'

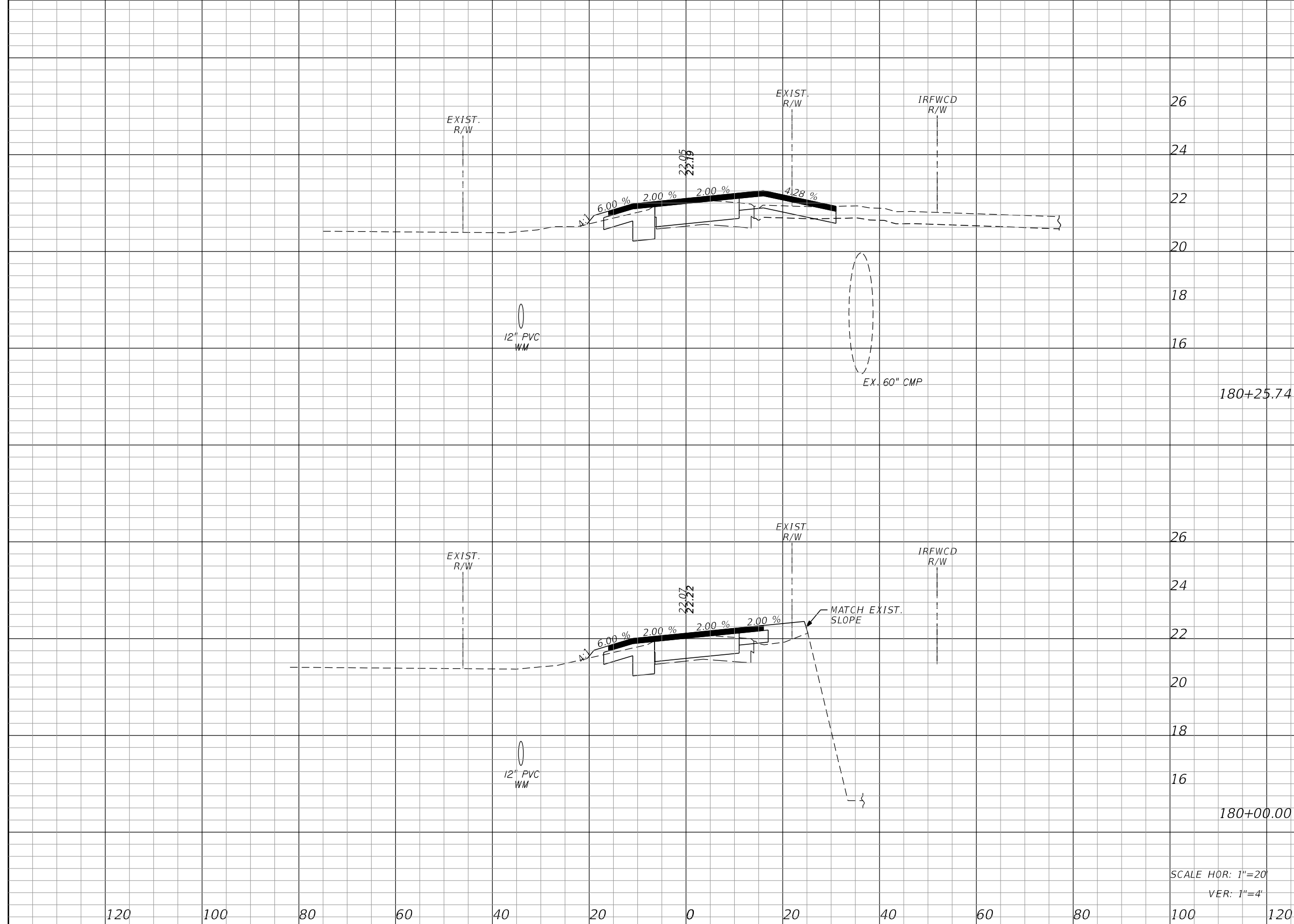
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
 445 24TH STREET, SUITE 200
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

69TH STREET
 CROSS SECTIONS

SHEET NO.
 70



SCALE HOR: 1"=20'
VER: 1"=4'

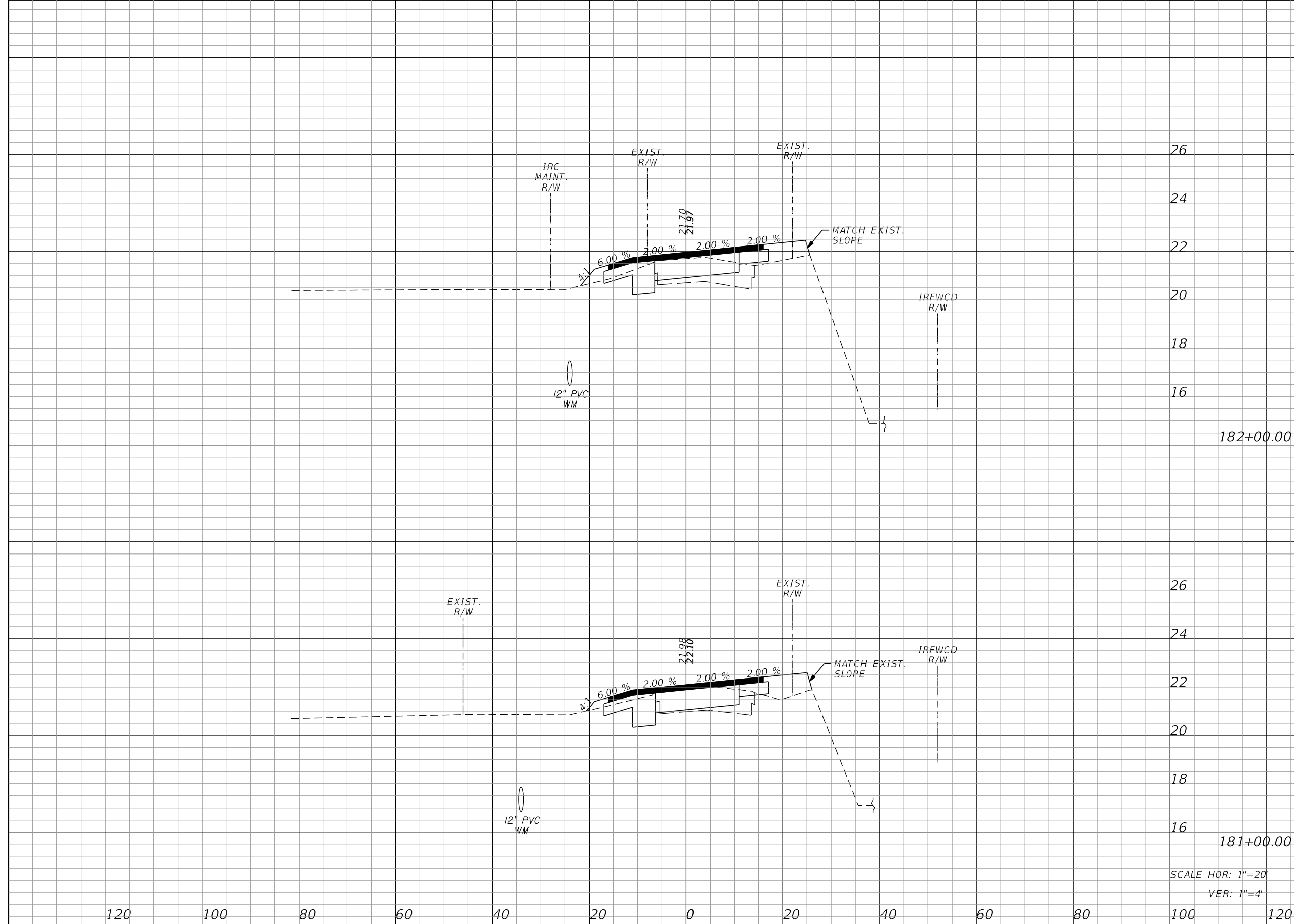
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

69TH STREET
 CROSS SECTIONS

SHEET NO.
71



Regular		Exc.		Embankment	
A	V	A	V	A	V
18.3	77.2	8.1	30.6		
23.4	72.2	8.4	13.1		

SCALE HOR: 1"=20'
VER: 1"=4'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

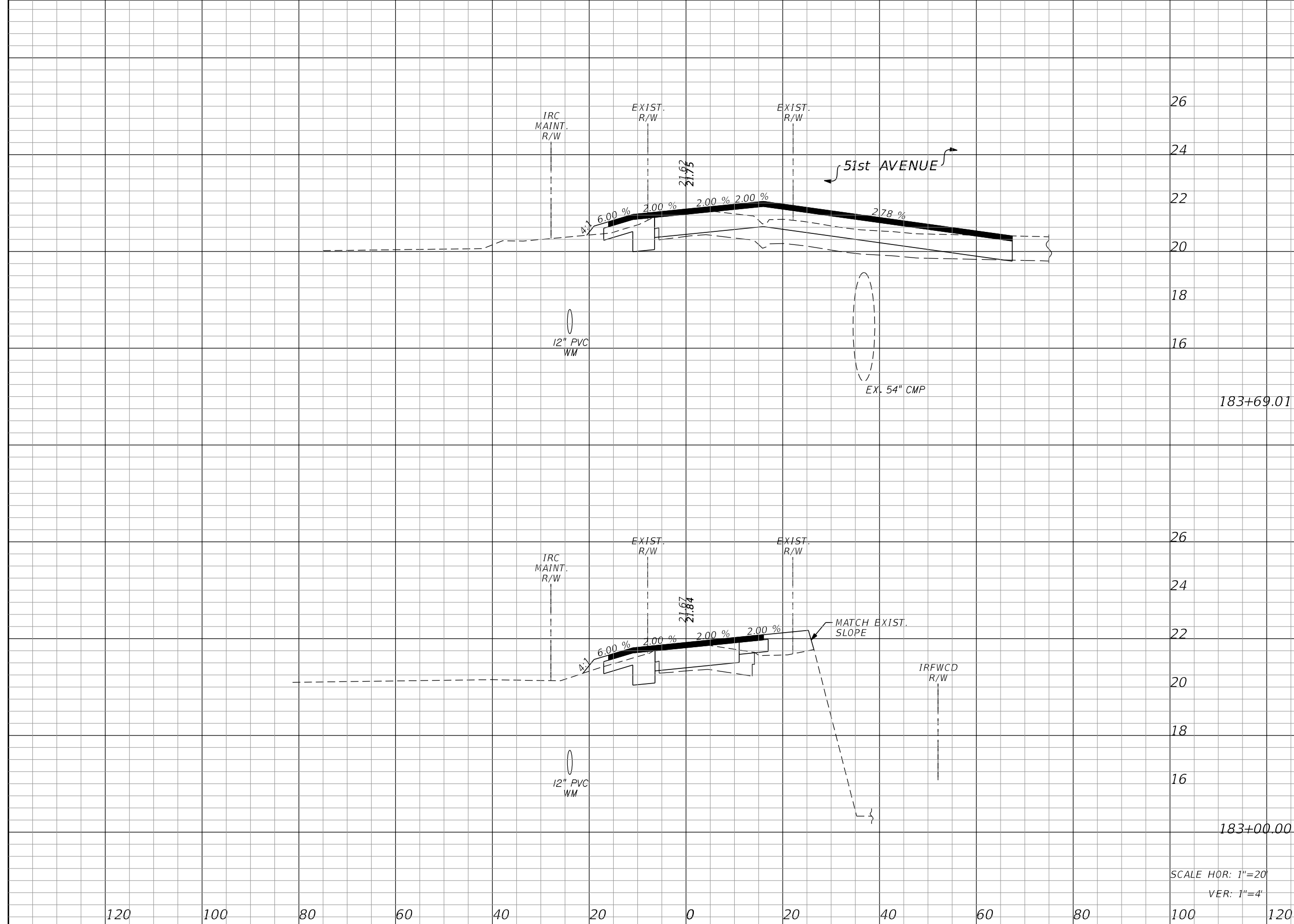
69TH STREET
 CROSS SECTIONS

SHEET NO.
72

Regular Exc. A V Embankment A V

1639 I.R.CO. Proj. No.

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Station	Regular Exc.		Embankment	
	A	V	A	V
183+69.01	53.8	96.2	1.3	13.4
183+00.00	21.5	73.7	9.2	32.0

SCALE HOR: 1"=20'
VER: 1"=4'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

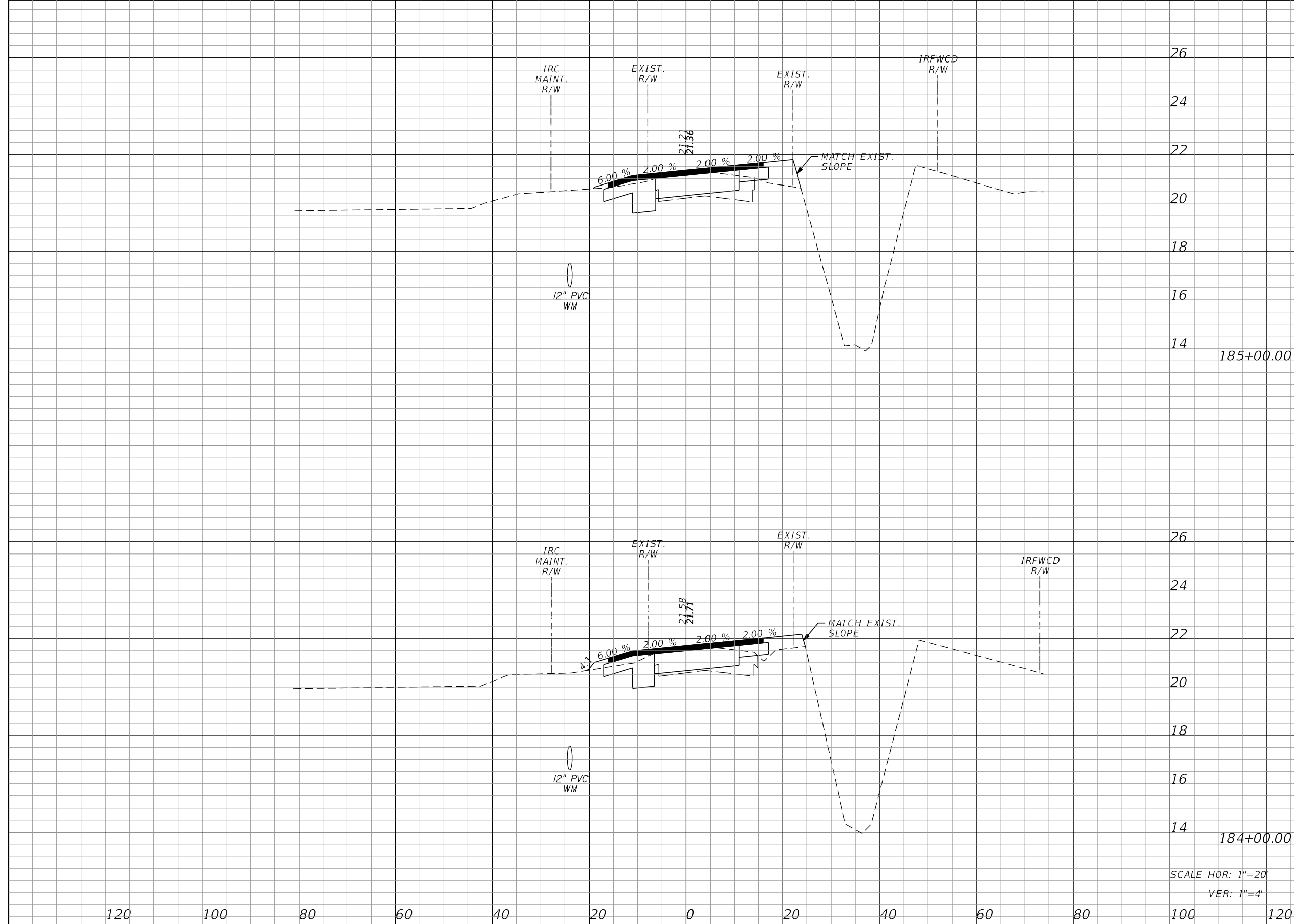
69TH STREET
 CROSS SECTIONS

SHEET NO.
73

Regular Exc. Embankment
 A V A V

1639
 I.R.CO. Proj. No.

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



Station	Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
185+00.00	23.6	85.7	5.1	19.4
184+00.00	22.7	43.9	5.4	3.8

SCALE HOR: 1"=20'
 VER: 1"=4'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
 445 24TH STREET, SUITE 200
 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

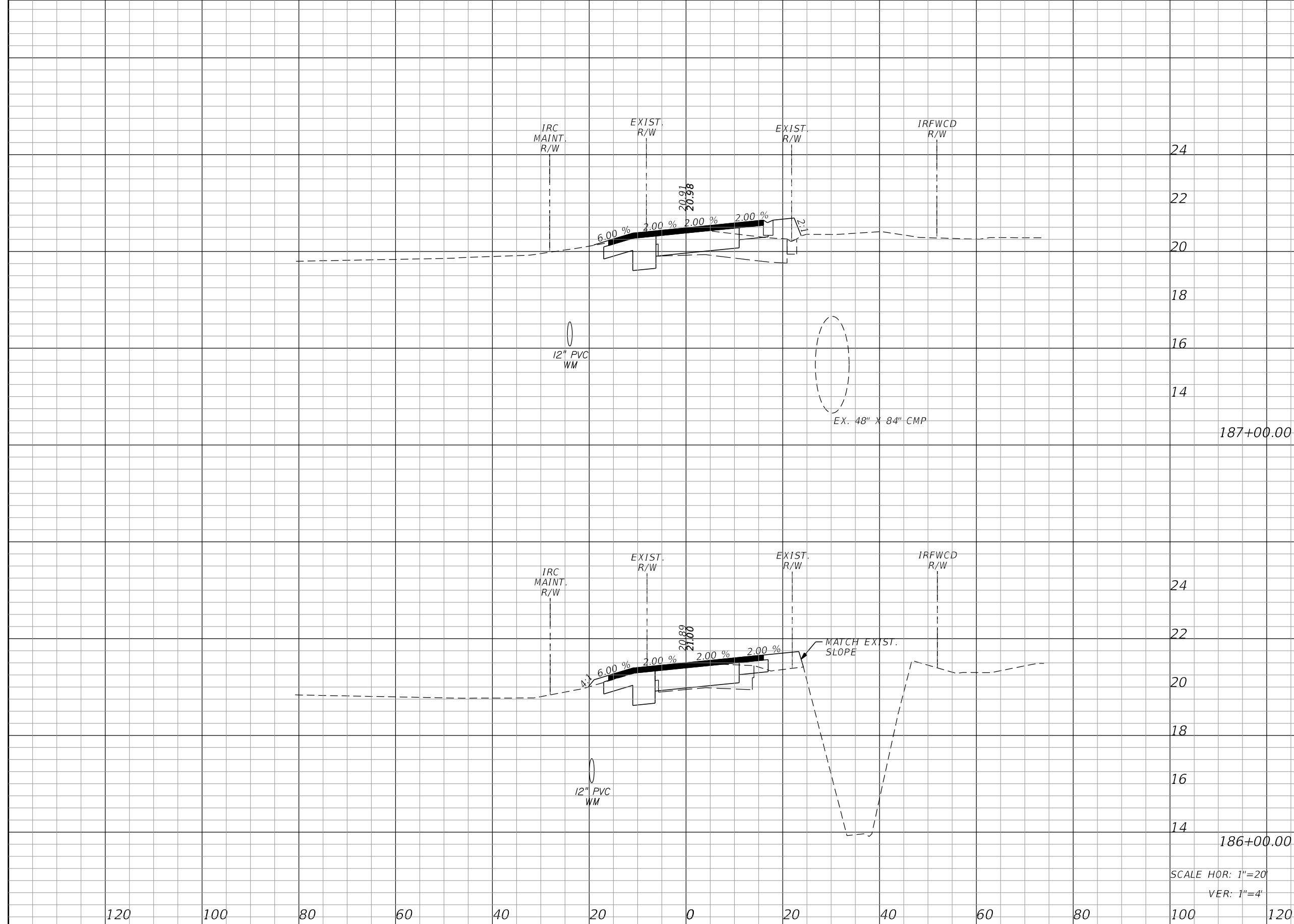
69TH STREET
 CROSS SECTIONS

SHEET NO.
 74

Regular Exc. A V Embankment A V

1639
I.R.CO. Proj. No.

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Station	Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
187+00.00	25.0	95.4	4.1	17.0
186+00.00	26.5	92.8	5.1	18.9

SCALE HOR: 1"=20'
VER: 1"=4'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
 445 24TH STREET, SUITE 200
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 REGISTRY No. 696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

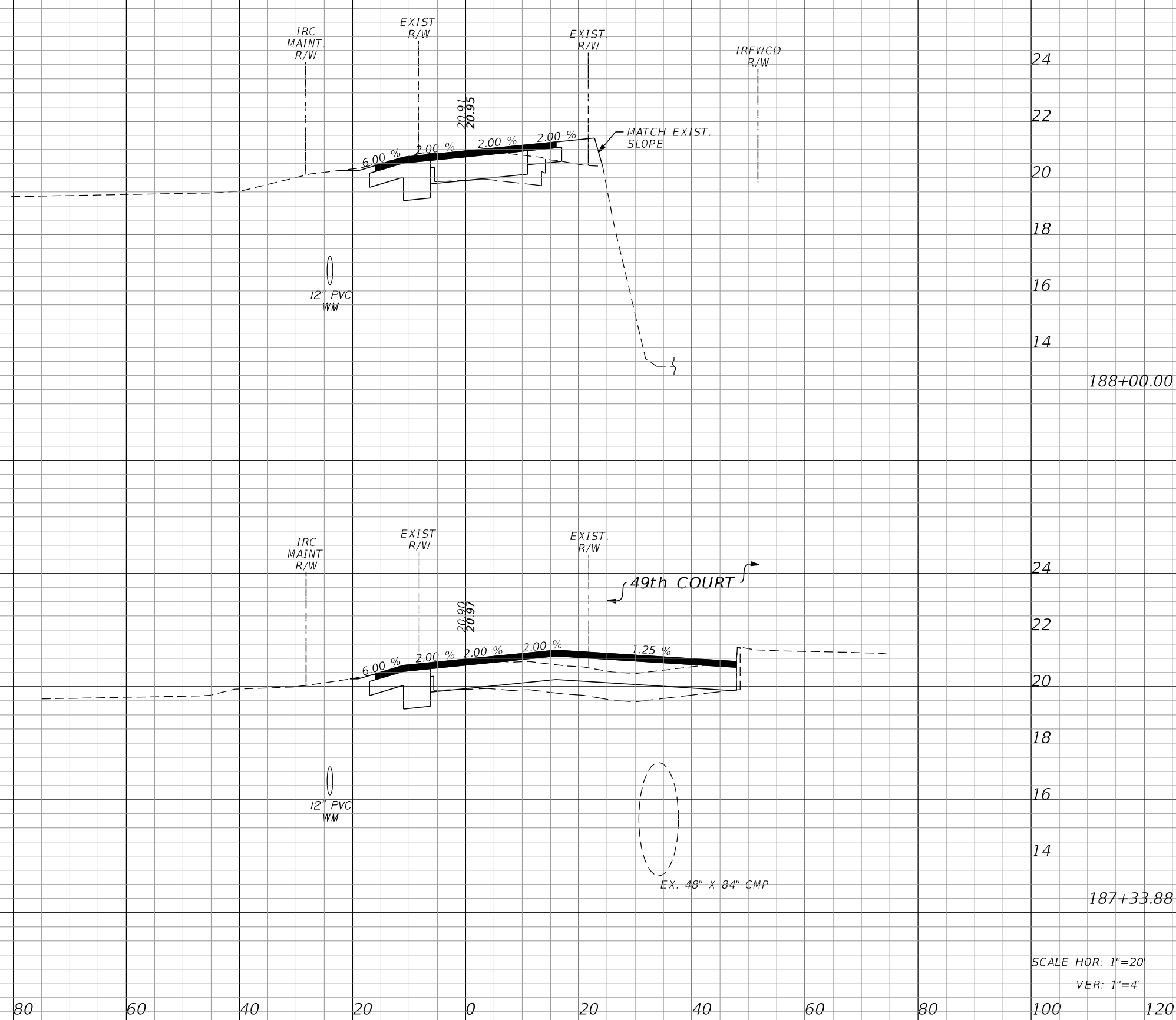
69TH STREET
 CROSS SECTIONS

SHEET NO.
 75

Regular Exc. A V Embankment A V

1639 I.R.CO. Proj. No.

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



Station	Regular Exc.		Embankment	
	A	V	A	V
188+00.00	29.0	95.5	4.7	5.8
187+33.88	49.0	46.4	0.0	2.6

SCALE HOR: 1"=20'
VER: 1"=4'

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
 445 24TH STREET, SUITE 200
 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

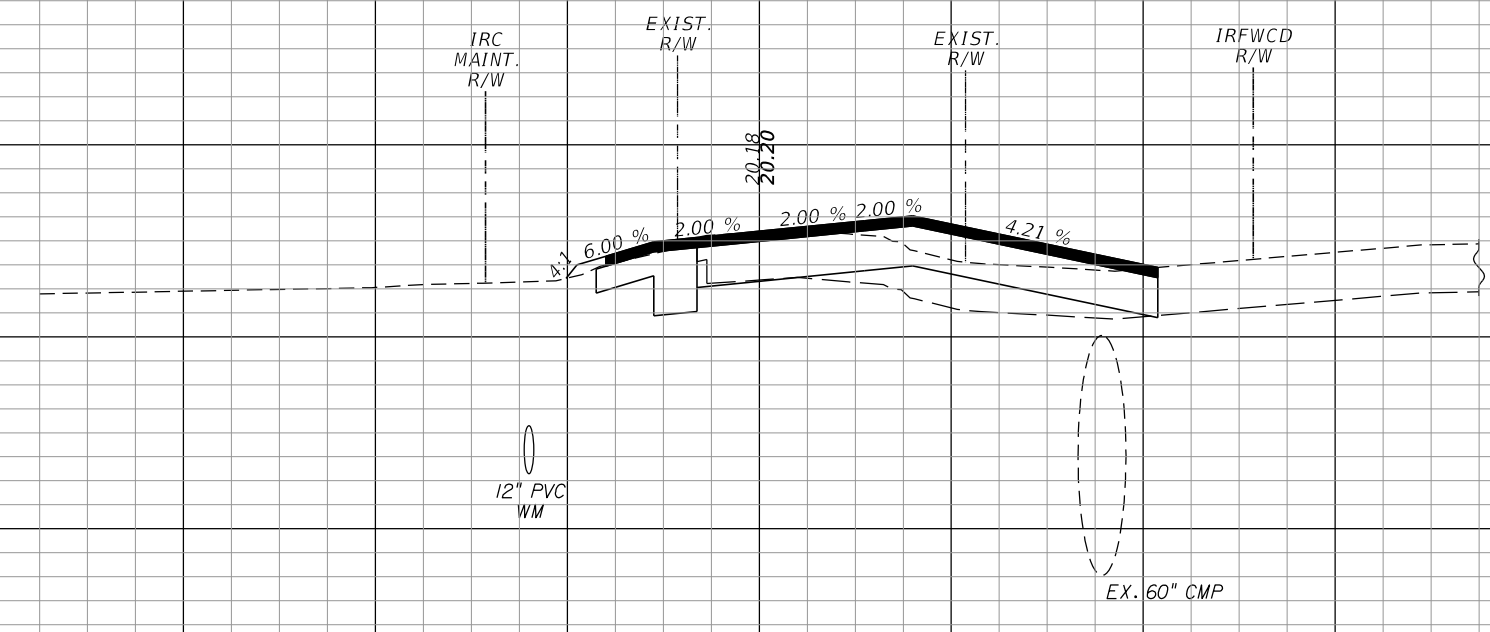
INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

69TH STREET
 CROSS SECTIONS

SHEET NO.
76

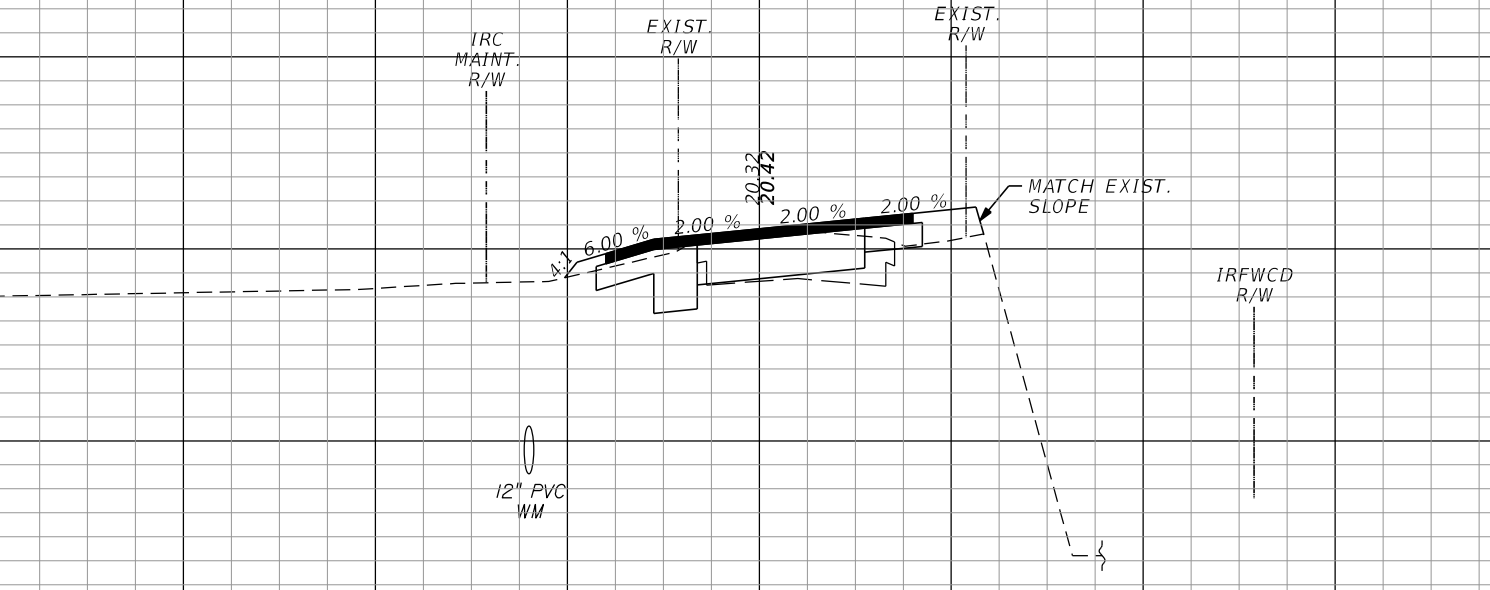
Regular Exc. A V Embankment A V

1639 I.R.CO. Proj. No. THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



24
22
20
18
16
14
189+41.02

43.3
51.6
0.7
4.0



24
22
20
18
16
14
189+00.00

24.6
99.3
4.5
17.0

SCALE HOR: 1"=20'
VER: 1"=4'

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
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 REGISTRY No. 696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

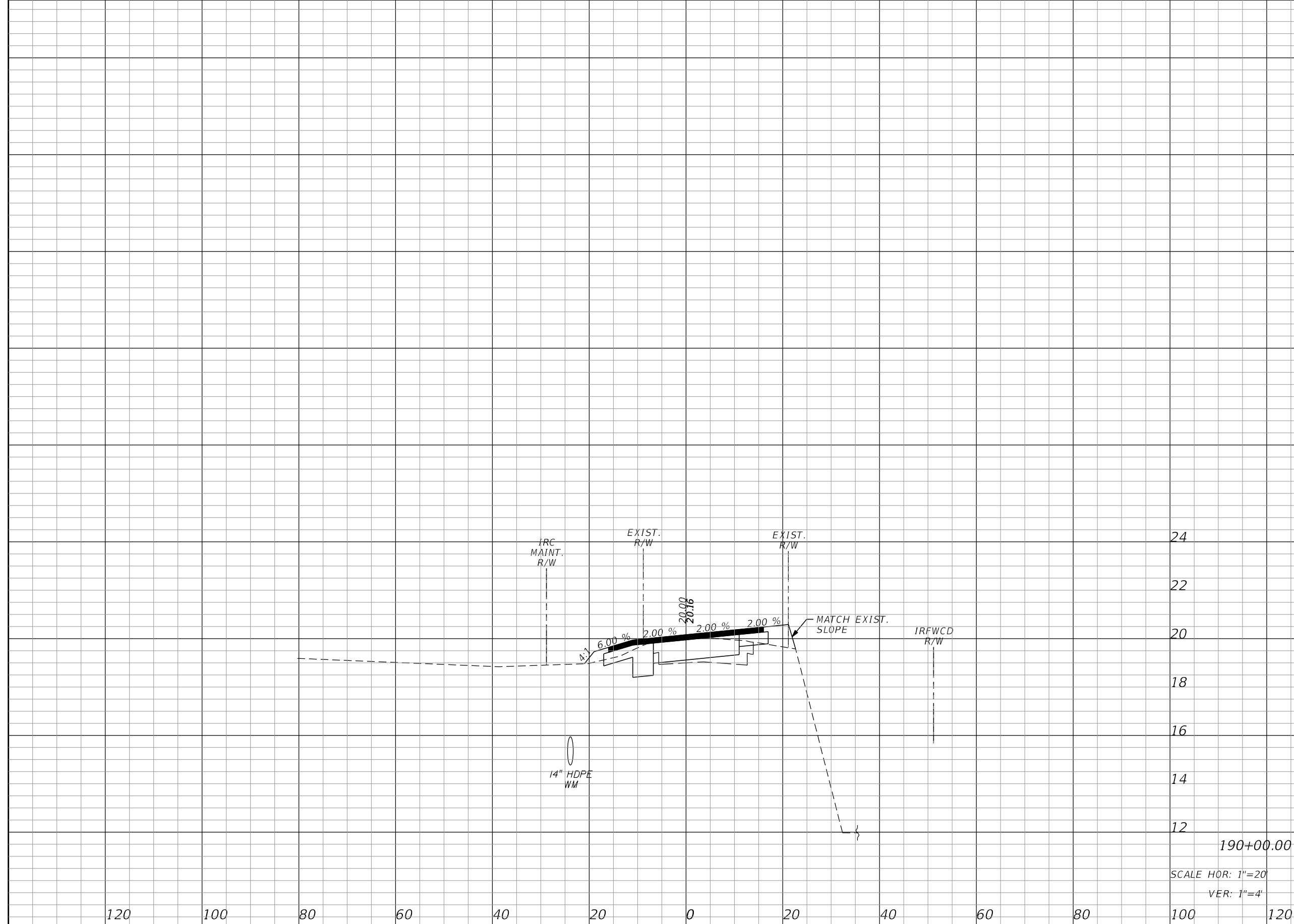
69TH STREET
 CROSS SECTIONS

SHEET NO.
77

Regular Exc. Embankment
 A V A V

I.R.CO. Proj. No. 1639

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



Station	Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
120				
100				
80				
60				
40				
20				
0				
20				
40				
60				
80				
100				
120	22.1	71.4	4.9	6.1

SCALE HOR: 1"=20'
 VER: 1"=4'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
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 P.E. LICENSE NUMBER 56939
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

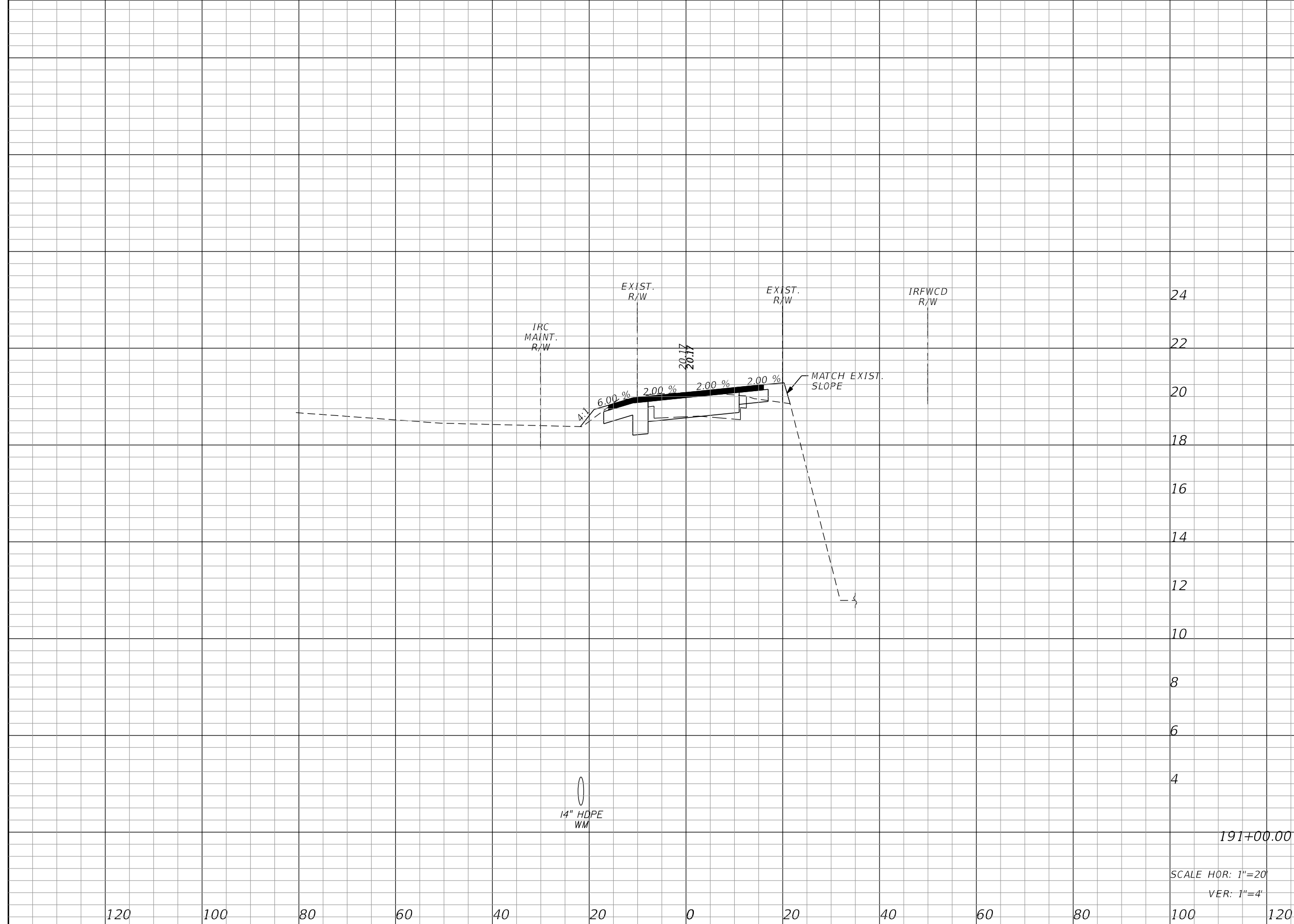
69TH STREET
 CROSS SECTIONS

SHEET NO.
 78

Regular Exc. A V Embankment A V

IRCO Proj. No. 1639

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Regular Exc.		Embankment	
A	V	A	V
28.6	93.9	3.5	15.6

SCALE HOR: 1"=20'
VER: 1"=4'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
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 P.E. LICENSE NUMBER 56939
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 REGISTRY No. 696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

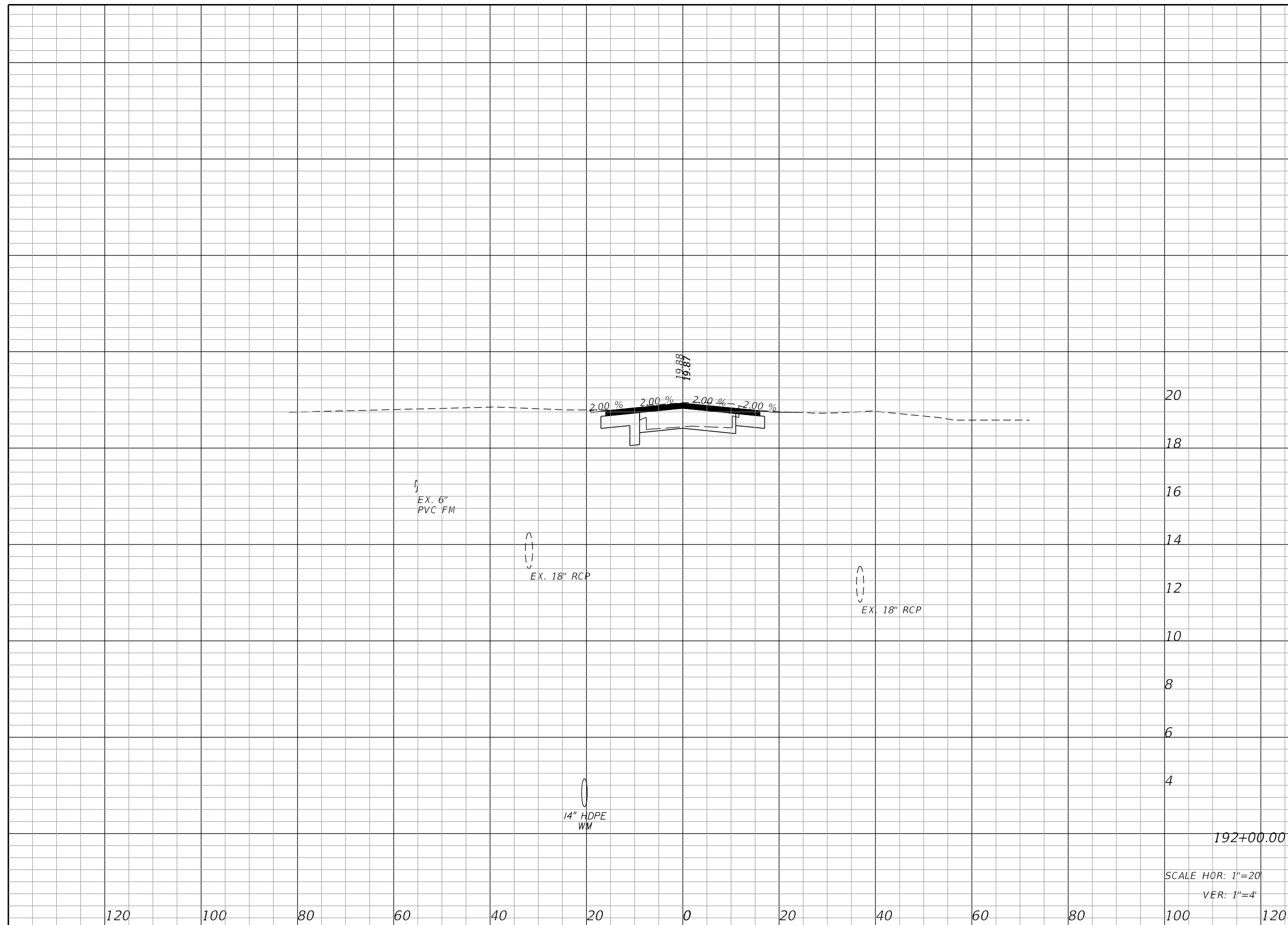
69TH STREET
 CROSS SECTIONS

SHEET NO.
 79

Regular Exc. Embankment
 A V A V

I.R.CO. Proj. No. 1639

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



Station	Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
192+00.00	34.2	116.3	0.0	6.5

SCALE HOR: 1"=20'
 VER: 1"=4'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

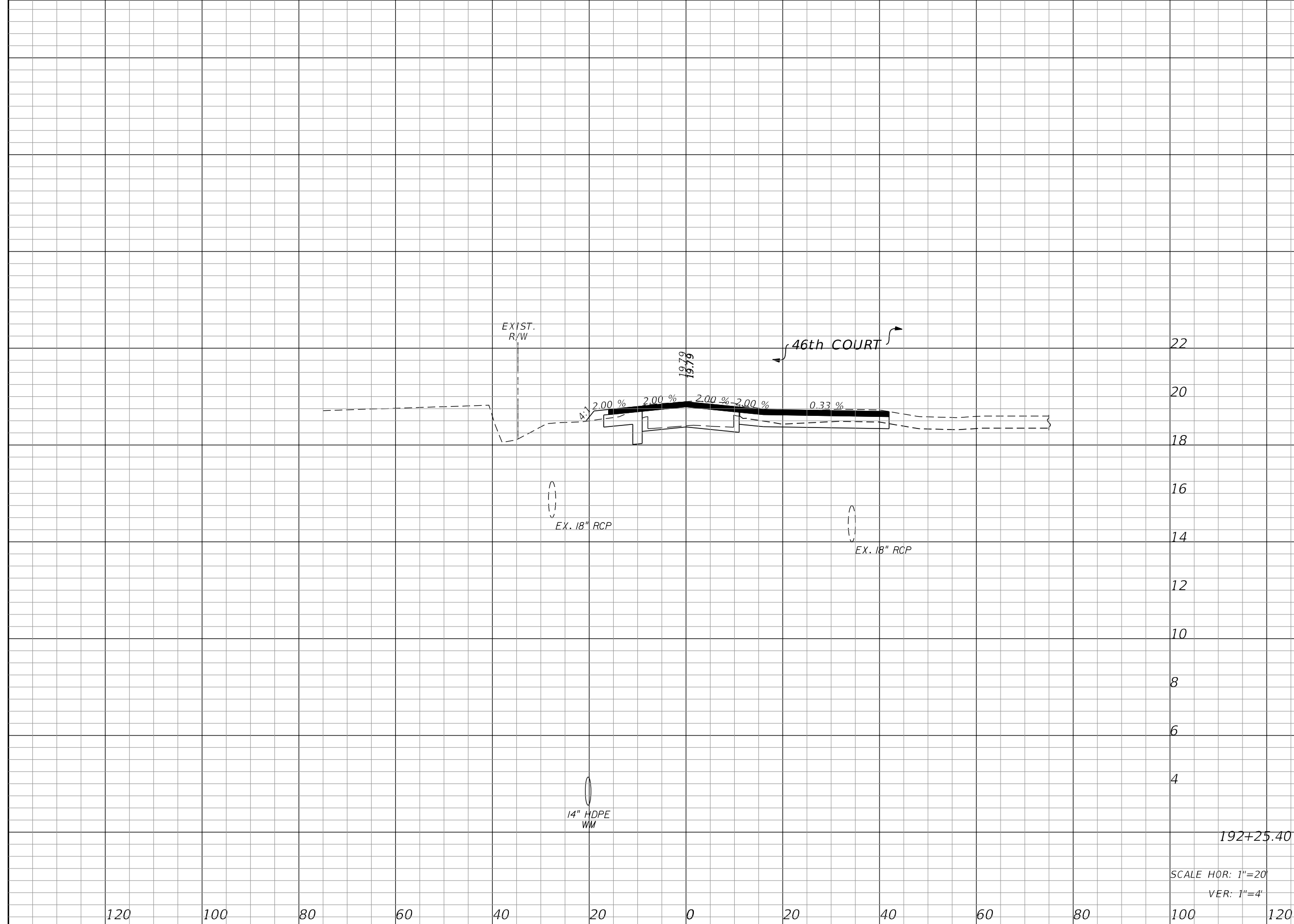
69TH STREET
 CROSS SECTIONS

SHEET NO.
 80

Regular Exc. A V Embankment A V

I.R.CO. Proj. No. 1639

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



Regular Exc.		Embankment	
A	V	A	V
49.9	39.6	1.3	0.6

192+25.40
SCALE HOR: 1"=20'
VER: 1"=4'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

69TH STREET
 CROSS SECTIONS

SHEET NO.
 81

Regular Exc. Embankment
 A V A V

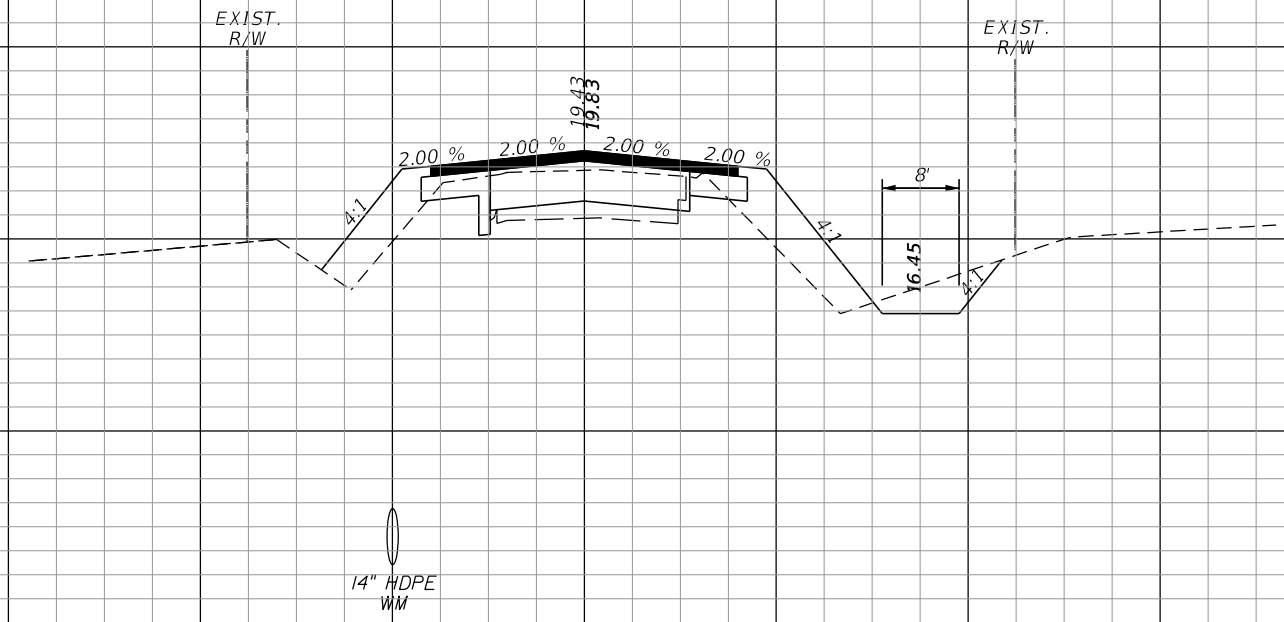
1639
 I.R.CO. Proj. No.

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24
 22
 20
 18
 16
 193+86.34
 12
 14
 16
 18
 20
 22

37.0	85.2	3.0	62.8
16.3	91.5	36.3	51.9



SCALE HOR: 1"=20'
 VER: 1"=4'

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

REVISIONS			
DATE	BY	DESCRIPTION	

Kimley»Horn
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 P.E. LICENSE NUMBER 56939
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

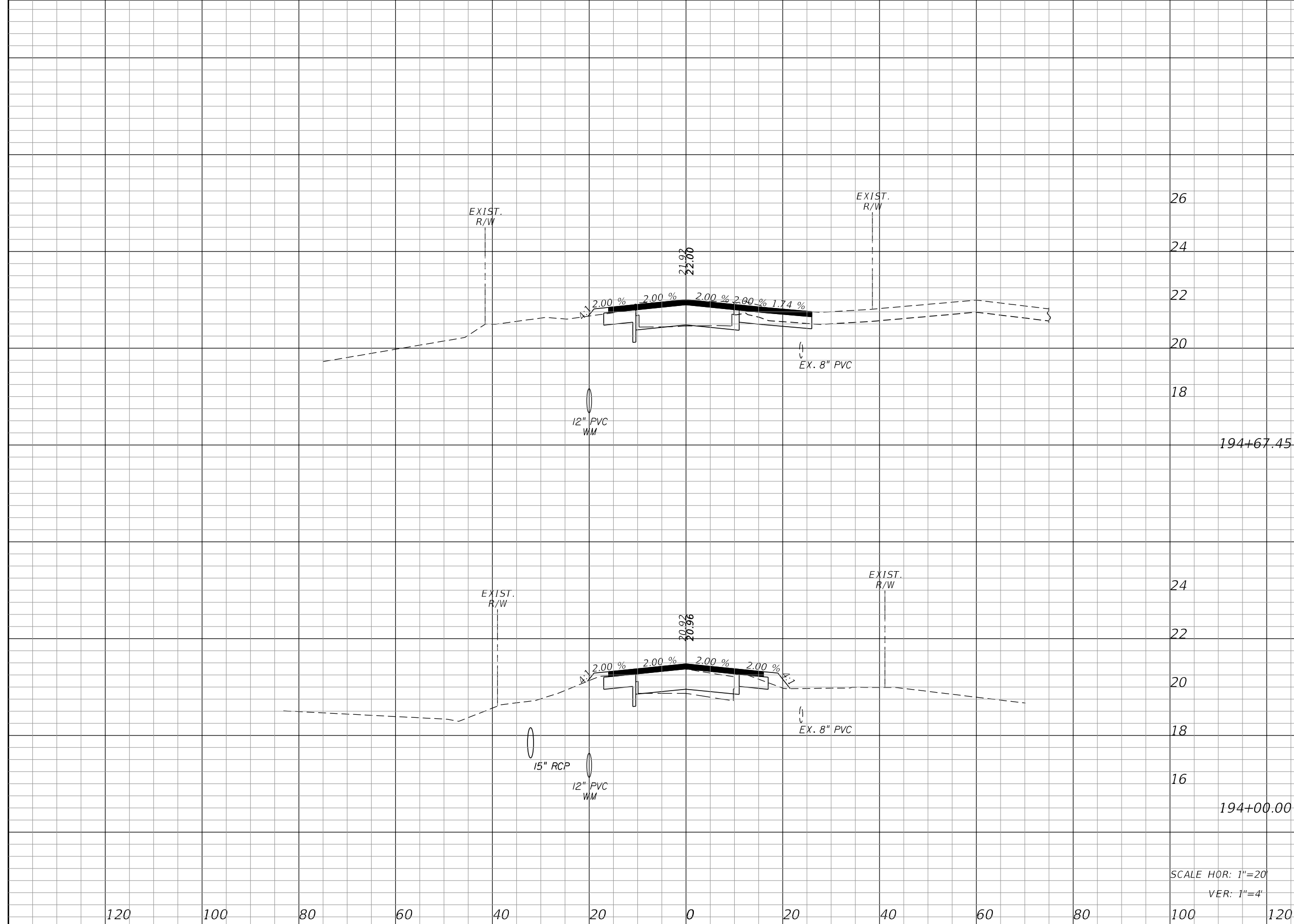
69TH STREET
 CROSS SECTIONS

SHEET NO.
 82

Regular		Exc.		Embankment	
A	V	A	V	A	V

I.R.CO. Proj. No. 1639

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



Station	Regular		Exc.		Embankment	
	A	V	A	V	A	V
194+67.45	37.7		0.9	77.9	0.9	4.4
194+00.00	24.7		2.6	15.6	2.6	1.4

SCALE HOR: 1"=20'
VER: 1"=4'

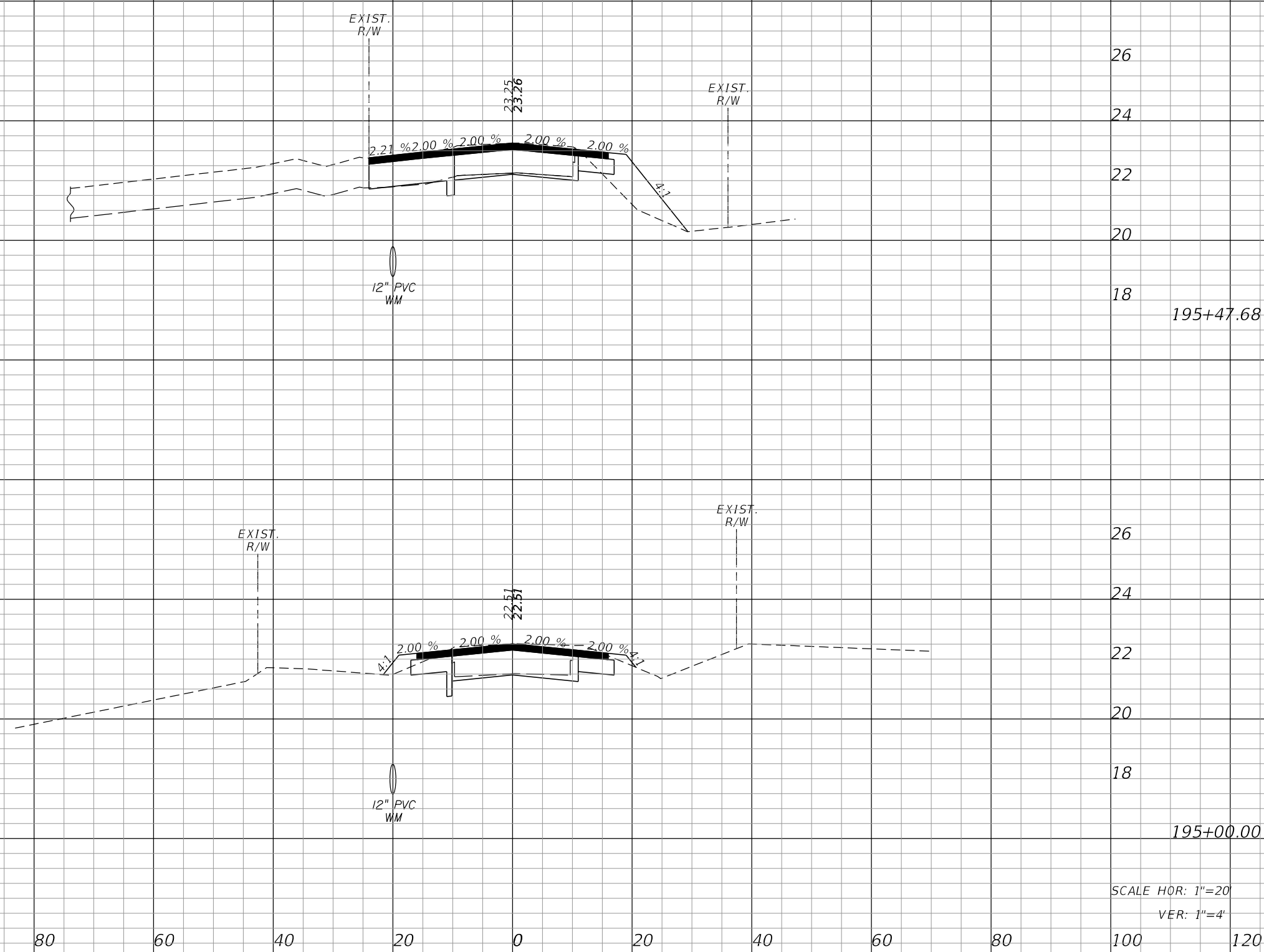
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
 445 24TH STREET, SUITE 200
 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

69TH STREET
 CROSS SECTIONS

SHEET NO.
 83



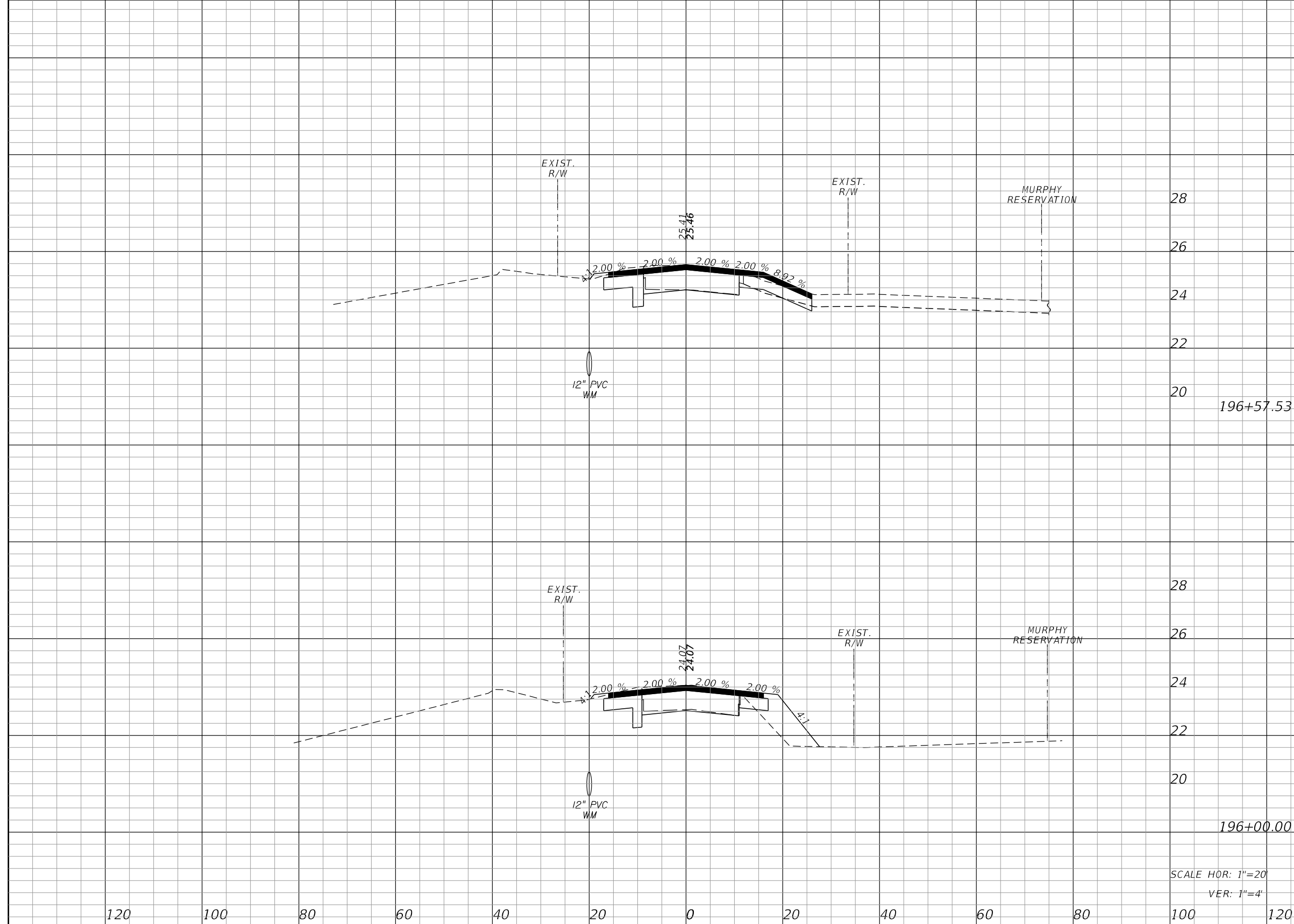
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
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 P.E. LICENSE NUMBER 56939
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

69TH STREET
 CROSS SECTIONS

SHEET NO.
 84



Regular Exc.		Embankment	
A	V	A	V
36.7	70.7	0.5	13.8
29.7	68.4	12.5	23.4

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

SCALE HOR: 1"=20'
VER: 1"=4'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
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 (772) 794-4100
 REGISTRY No. 696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

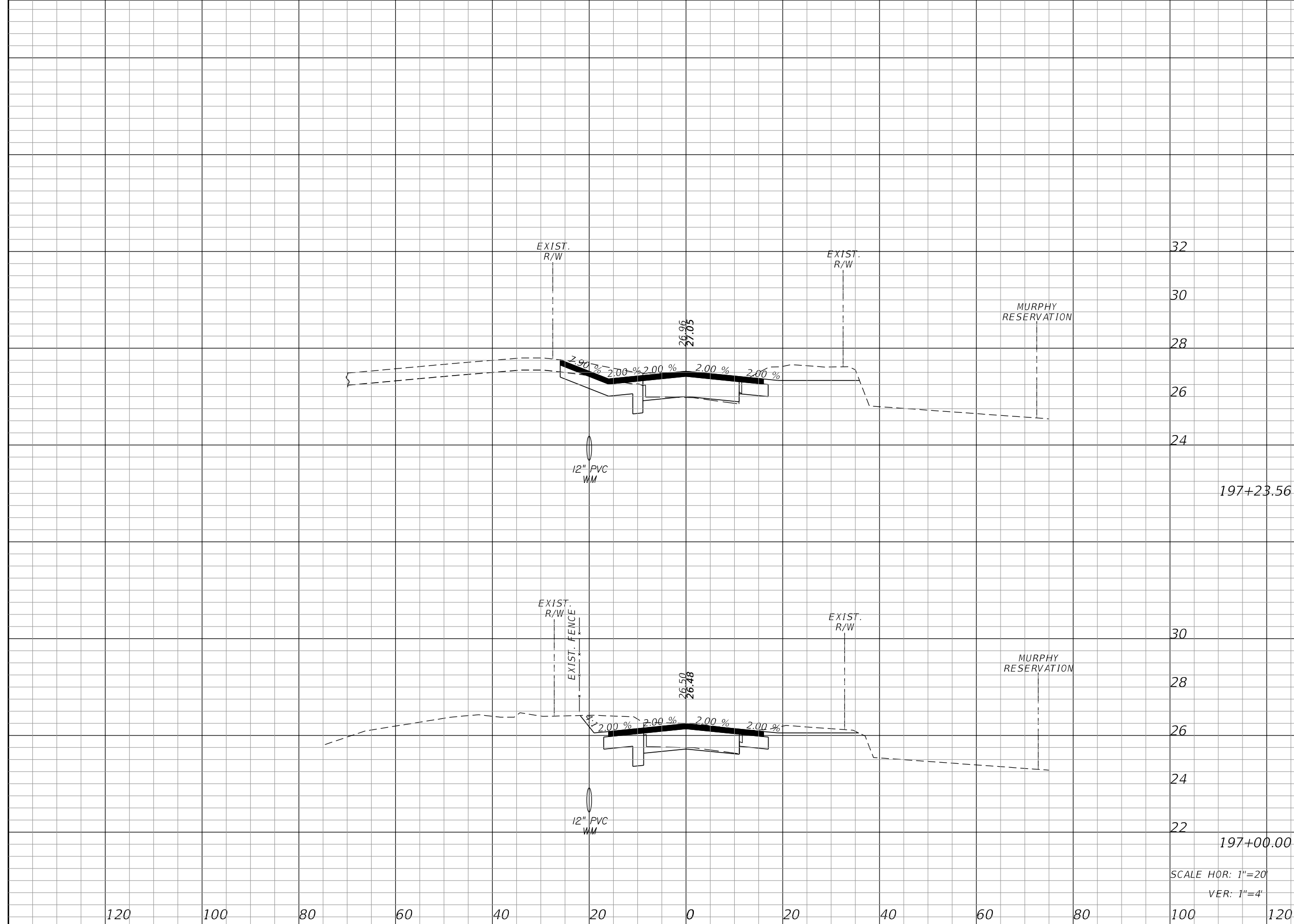
69TH STREET
 CROSS SECTIONS

SHEET NO.
 85

Regular Exc.		Embankment	
A	V	A	V

I.R.CO. Proj. No. 1639

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



Regular Exc.		Embankment	
A	V	A	V
53.6	42.6	0.0	0.0
44.1	63.5	0.0	0.4

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
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 REGISTRY No. 696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

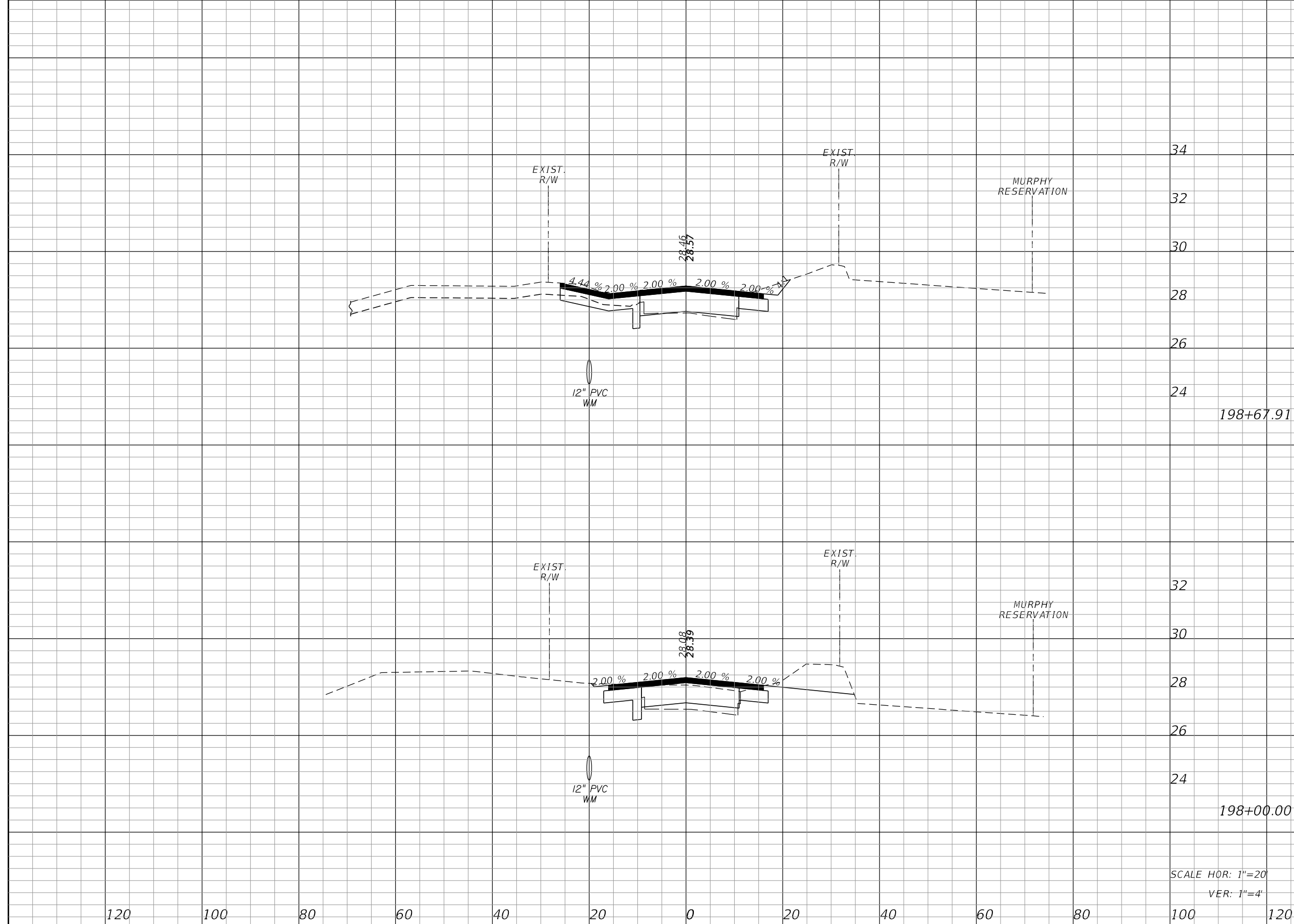
69TH STREET
 CROSS SECTIONS

SHEET NO.
 86

Regular Exc.		Embankment	
A	V	A	V

I.R.CO. Proj. No. 1639

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



Station	Regular Exc.		Embankment	
	A	V	A	V
198+67.91	38.6	97.7	0.0	0.0
198+00.00	39.1	131.2	0.0	0.0

SCALE HOR: 1"=20'
VER: 1"=4'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
 445 24TH STREET, SUITE 200
 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

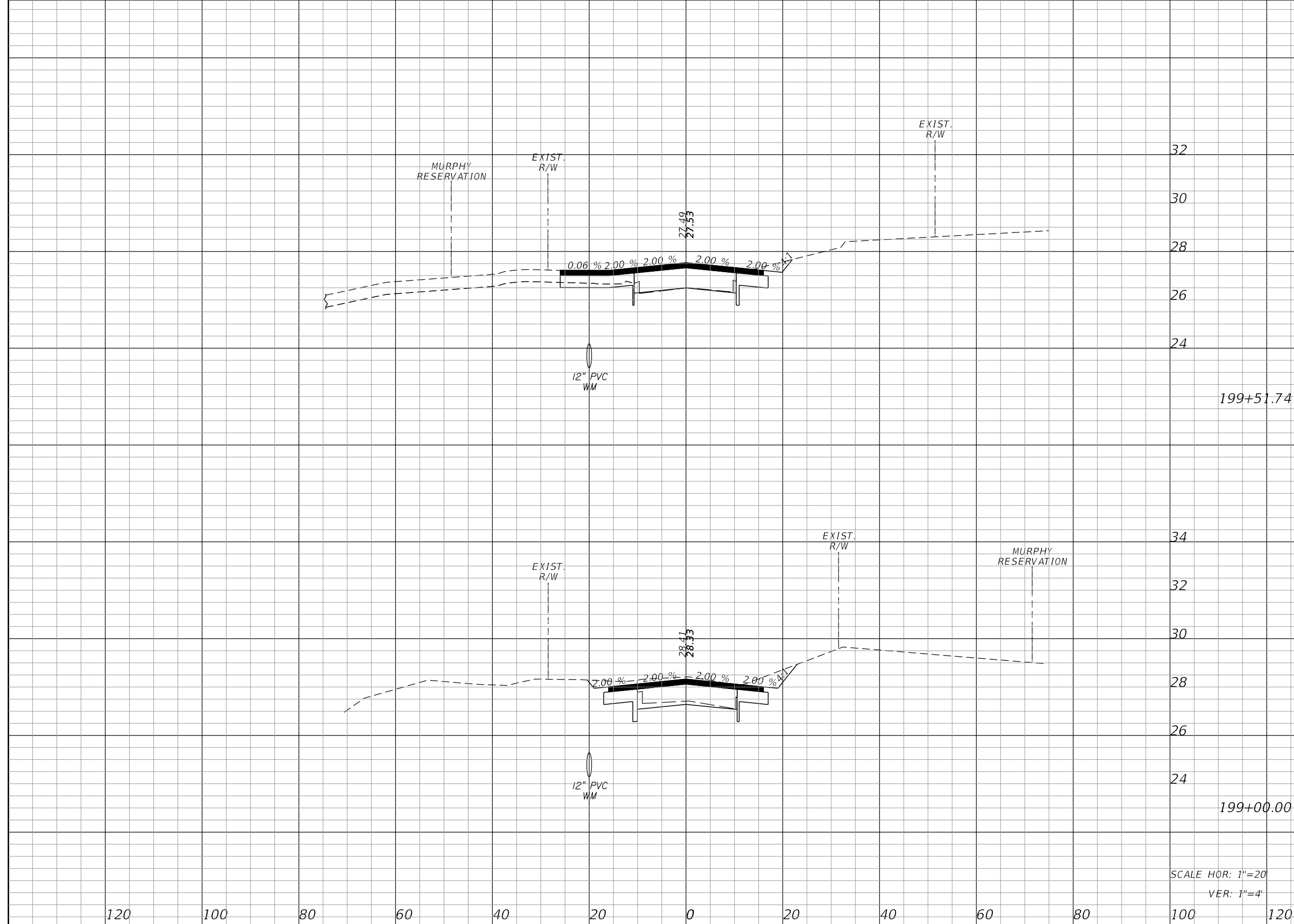
69TH STREET
 CROSS SECTIONS

SHEET NO.
 87

Regular Exc. Embankment
 A V A V

1639
 I.R.CO. Proj. No.

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



Regular Exc.		Embankment	
A	V	A	V
37.9	74.1	0.0	0.0
39.4	46.4	0.0	0.0

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

SCALE HOR: 1"=20'
 VER: 1"=4'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
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 P.E. LICENSE NUMBER 56939
 445 24TH STREET, SUITE 200
 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

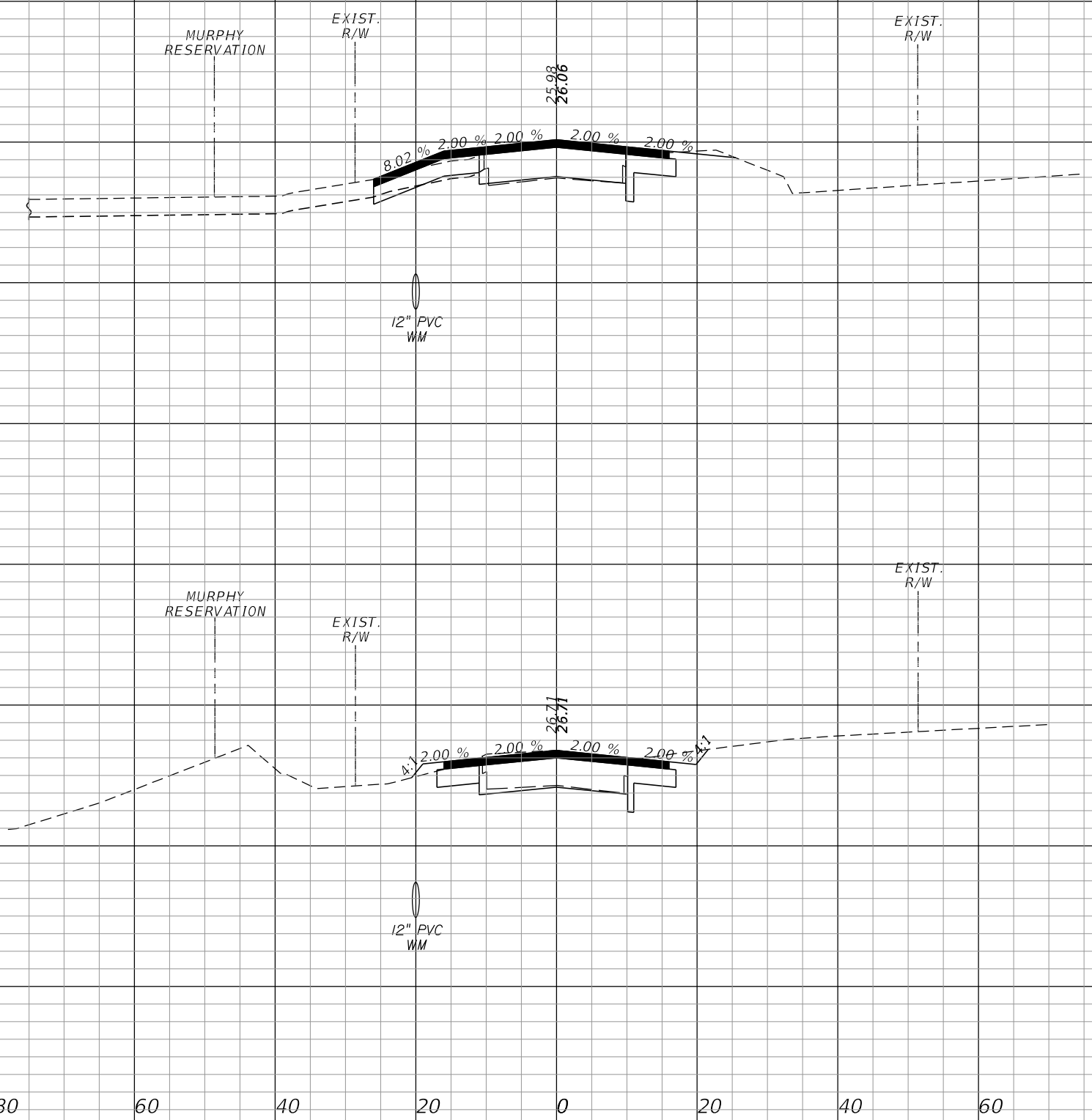
69TH STREET
 CROSS SECTIONS

SHEET NO.
 88

Regular Exc. Embankment
 A V A V

I.R.CO. Proj. No. 1639

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



Station	Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
200+73.86	33.5	91.1	0.0	1.4
200+00.00	33.1	63.5	1.0	0.9

SCALE HOR: 1"=20'
 VER: 1"=4'

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

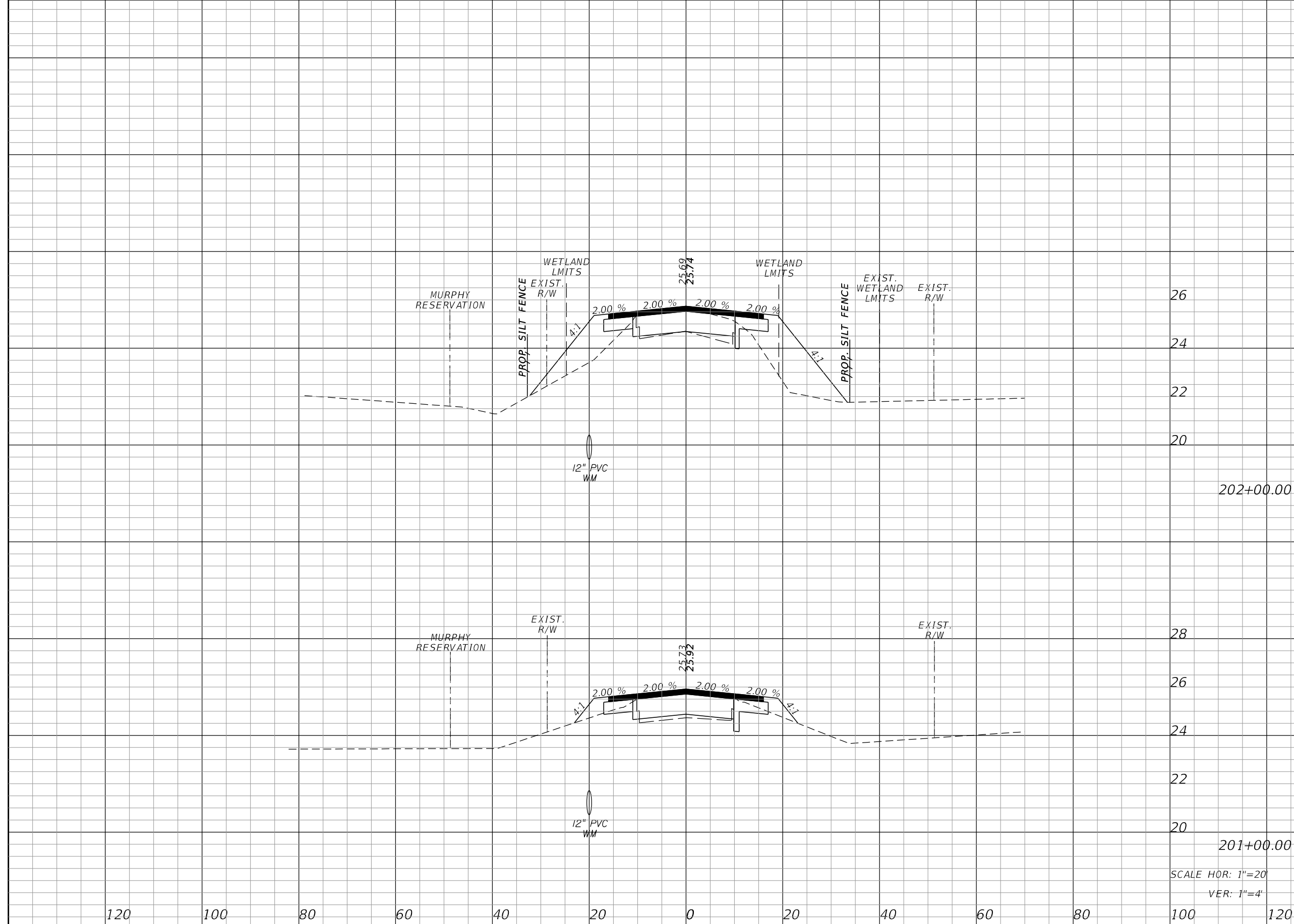
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
 445 24TH STREET, SUITE 200
 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

69TH STREET
 CROSS SECTIONS

SHEET NO.
 89



Station	Regular		Exc.		Embankment	
	A	V	A	V	A	V
202+00.00	19.9	78.3	45.9	96.3		
201+00.00	22.4	27.1	6.1	3.0		

SCALE HOR: 1"=20'
VER: 1"=4'

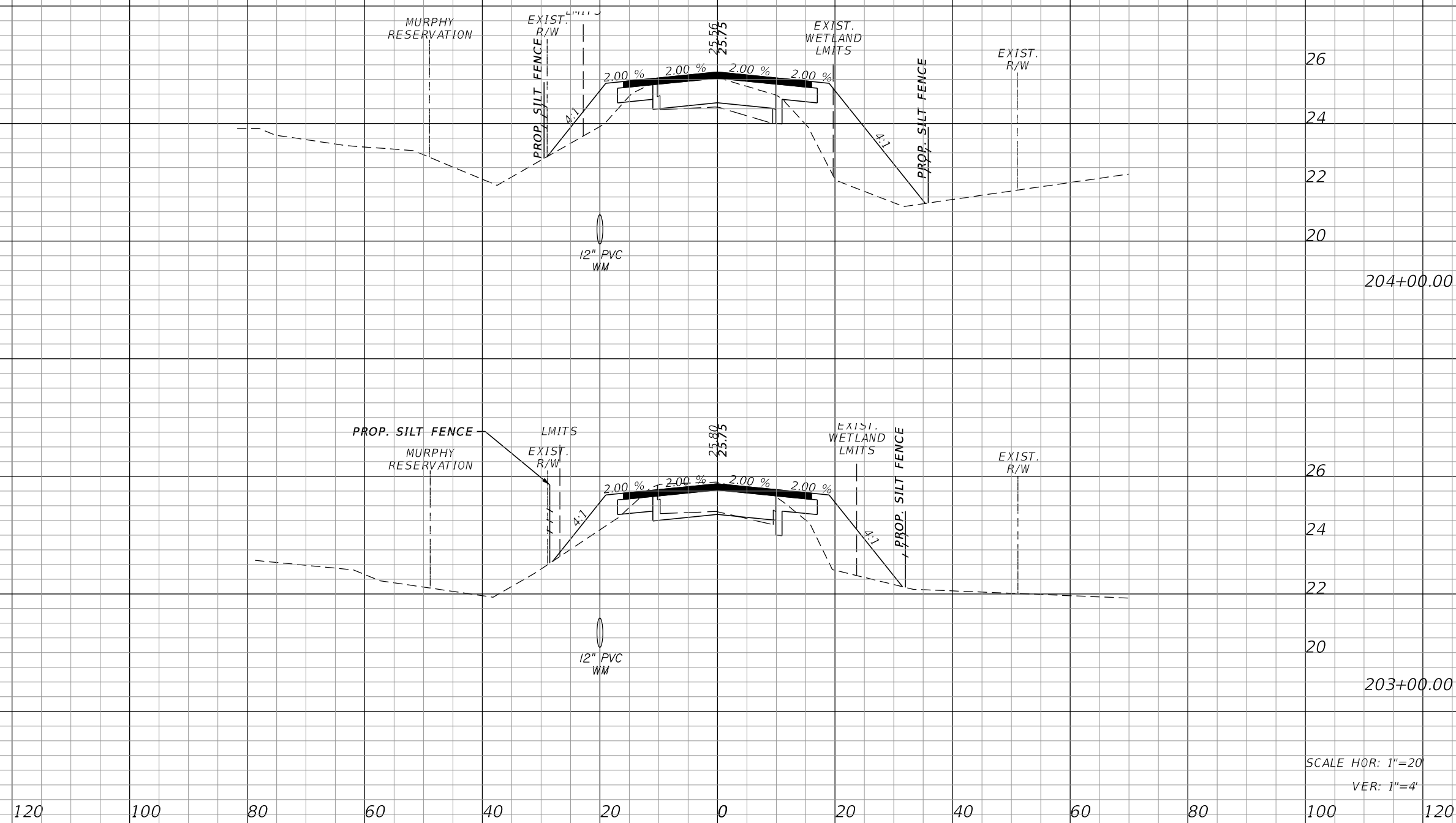
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
 445 24TH STREET, SUITE 200
 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

69TH STREET
 CROSS SECTIONS

SHEET NO. 90



Station	Regular		Exc.		Embankment	
	A	V	A	V	A	V
204+00.00	19.2	84.3	46.8		138.0	
203+00.00	26.3	85.6	27.7		136.3	

SCALE HOR: 1"=20'
VER: 1"=4'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24TH STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 696

**INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
69TH STREET FROM 66TH AVENUE
TO SR5/US-1, RESURFACING**

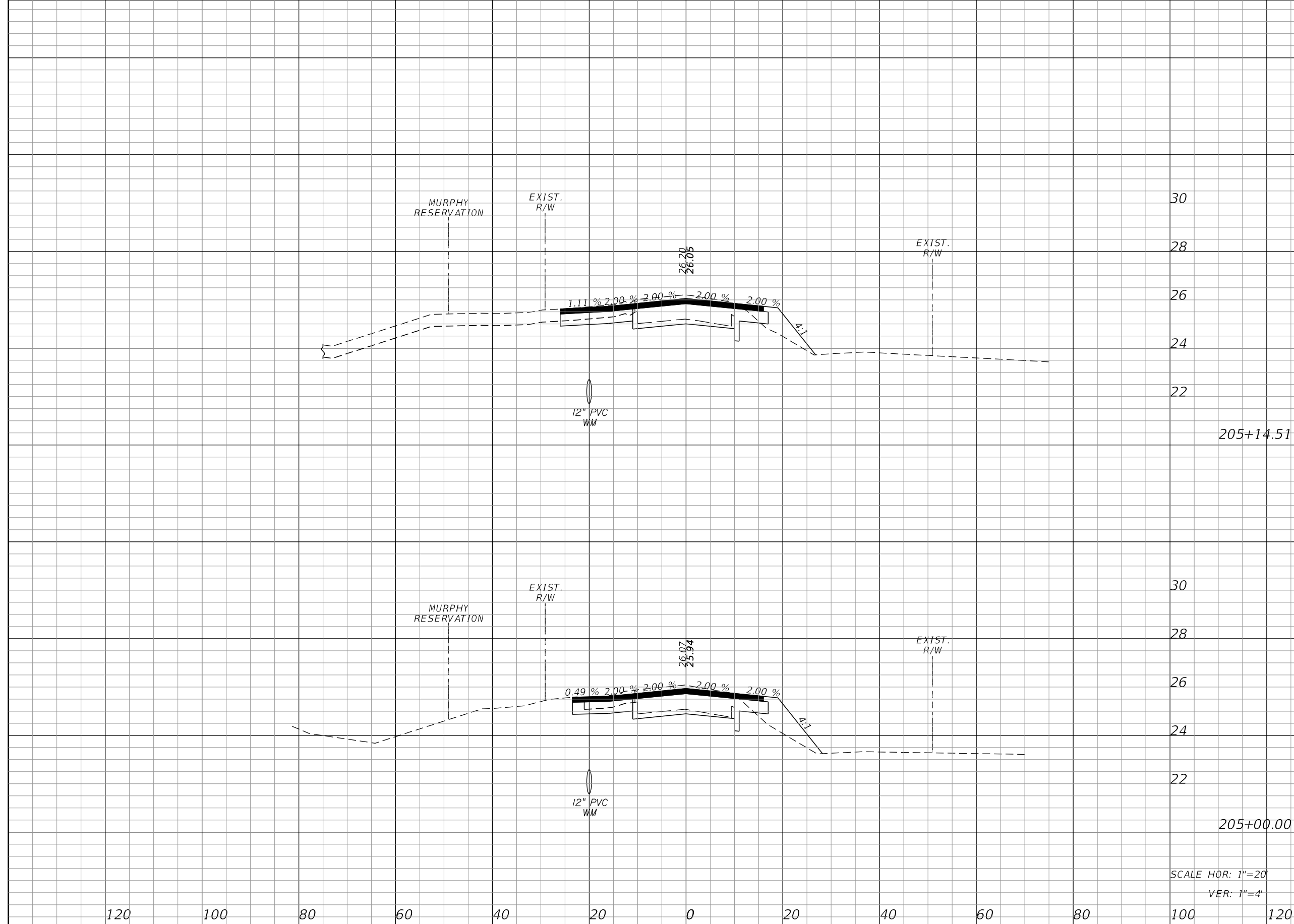
**69TH STREET
CROSS SECTIONS**

SHEET NO.
91

Regular Exc.		Embankment	
A	V	A	V

IRCO Proj. No. 1639

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



Regular Exc.		Embankment	
A	V	A	V
38.7	20.0	6.7	4.5
35.6	101.5	10.2	105.6

SCALE HOR: 1"=20'
VER: 1"=4'

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
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REGISTRY No. 696

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
69TH STREET FROM 66TH AVENUE
TO SR5/US-1, RESURFACING

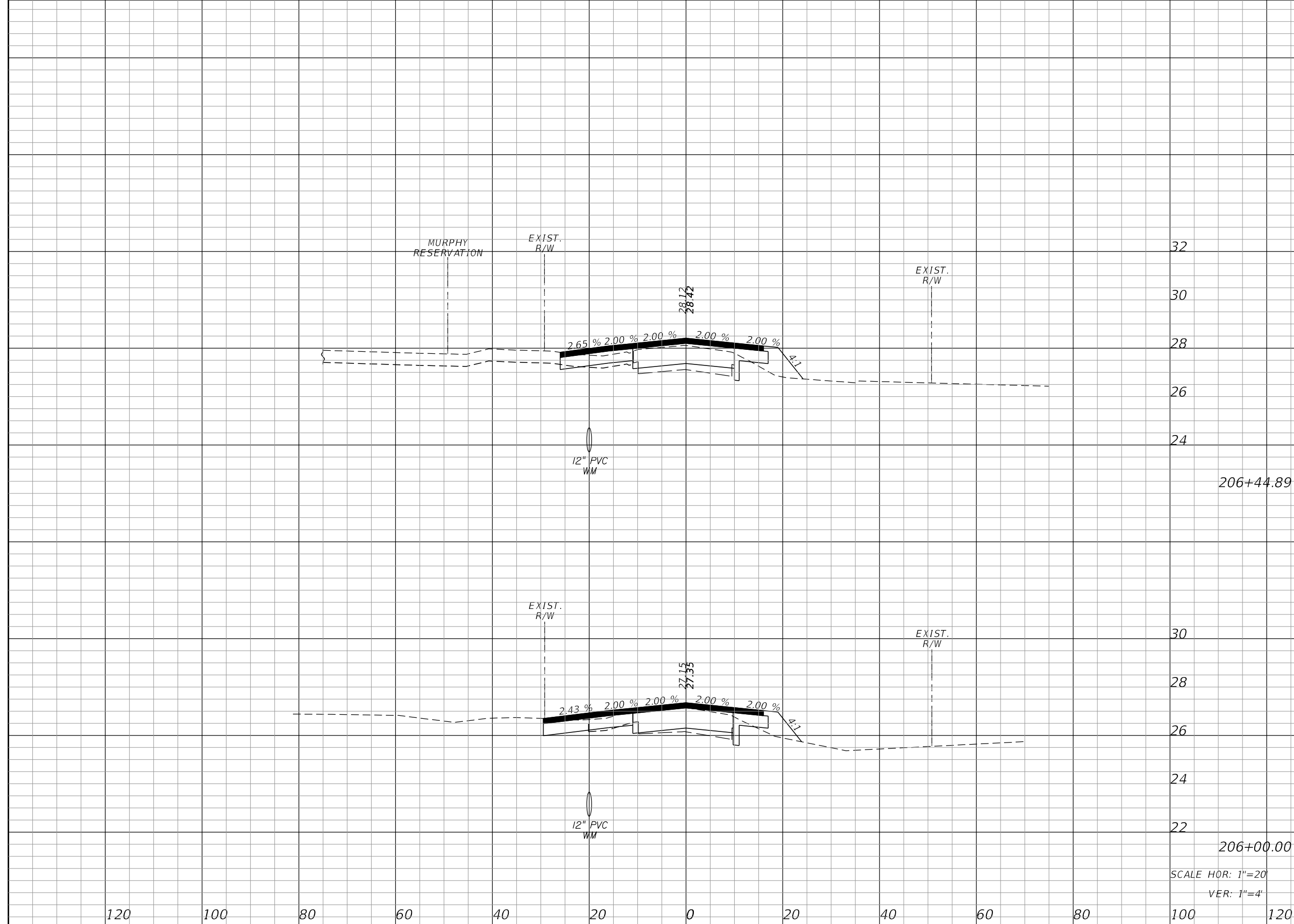
69TH STREET
CROSS SECTIONS

SHEET NO.
92

Regular Exc. A V Embankment A V

1639
I.R.CO. Proj. No.

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



Regular Exc.		Embankment	
A	V	A	V
23.2	43.4	6.2	9.3
29.0	107.2	5.0	18.5

SCALE HOR: 1"=20'
VER: 1"=4'

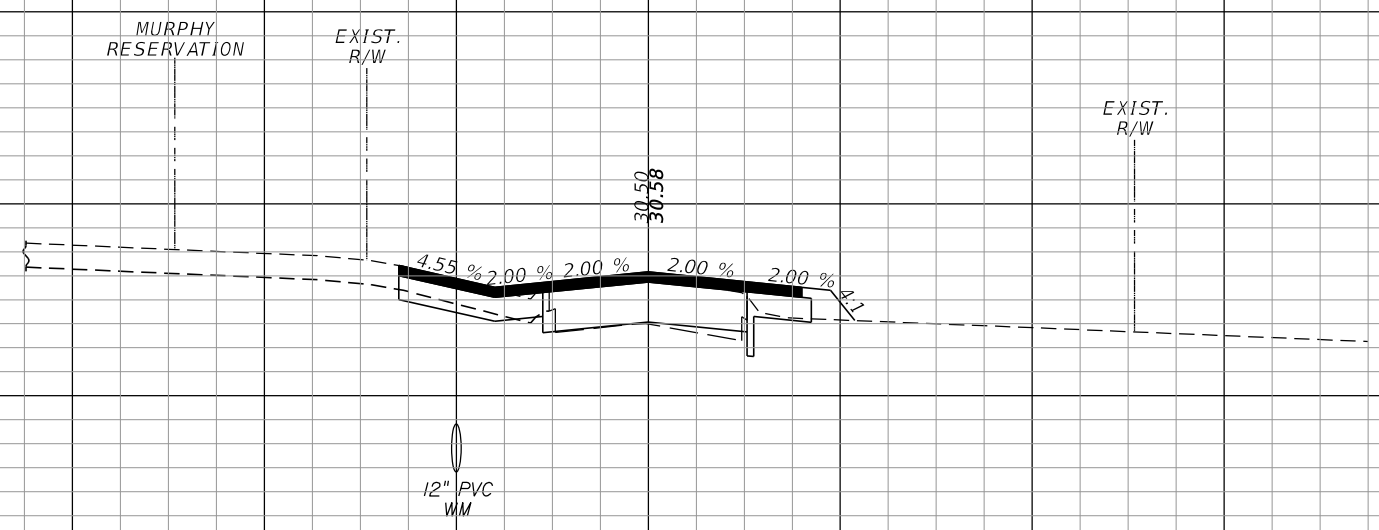
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

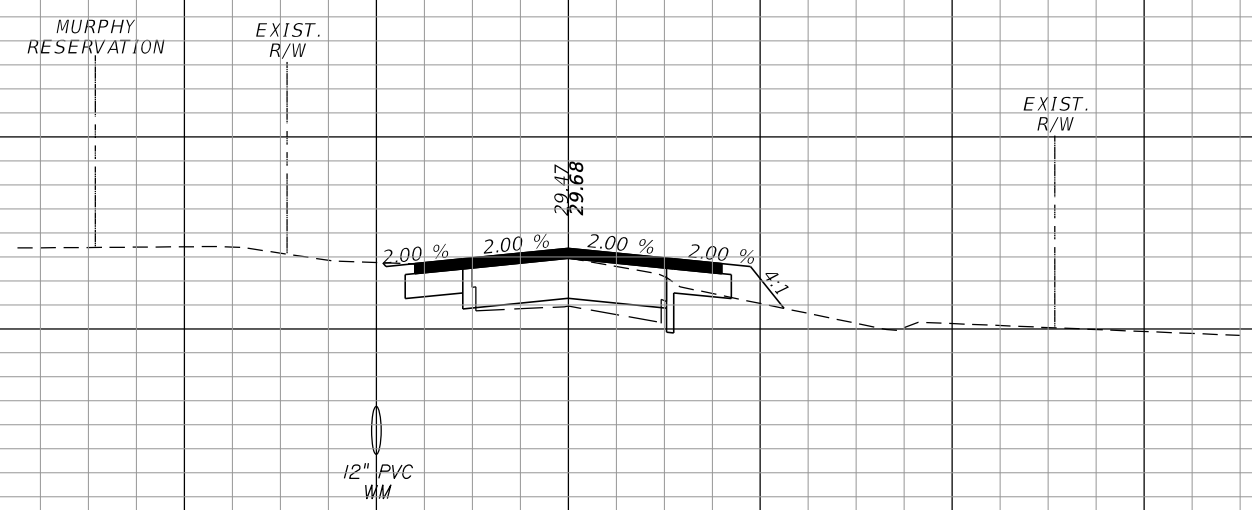
69TH STREET
 CROSS SECTIONS

SHEET NO.
93



34
32
30
28
26
207+45.42

30.5	44.7	2.2	4.3
------	------	-----	-----



34
32
30
28
26
207+00.00

22.6	46.7	2.9	9.3
------	------	-----	-----

SCALE HOR: 1"=20'
VER: 1"=4'

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

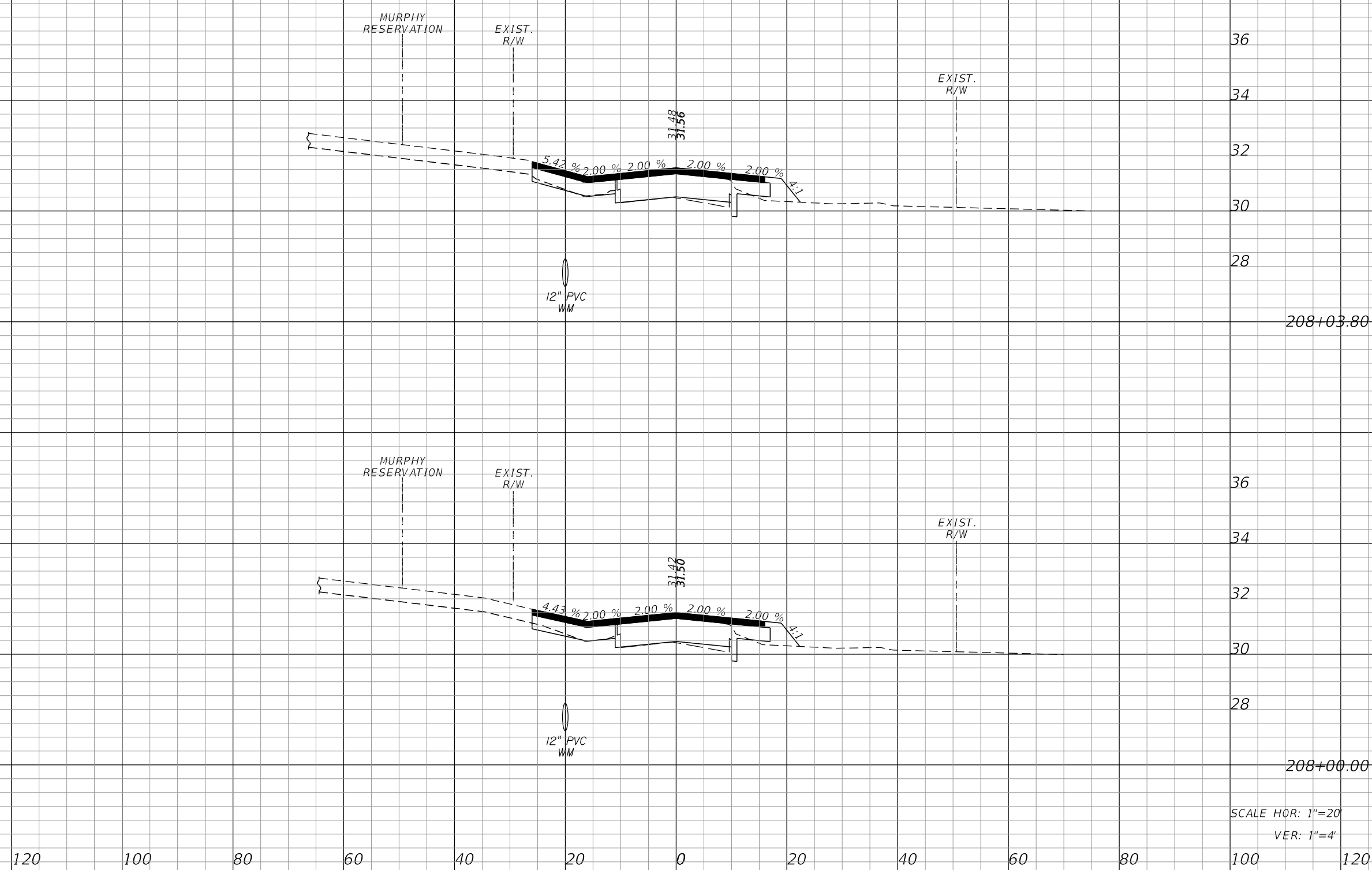
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
BRIAN A. GOOD, P.E.
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INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
69TH STREET FROM 66TH AVENUE
TO SR5/US-1, RESURFACING

69TH STREET
CROSS SECTIONS

SHEET NO.
94



208+03.80	29.2	4.1	3.6	0.5
208+00.00	29.5	60.6	3.5	5.8

SCALE HOR: 1"=20'
 VER: 1"=4'

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

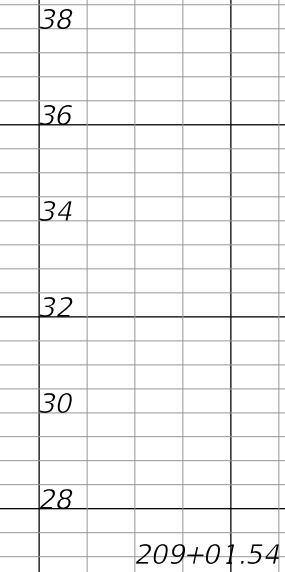
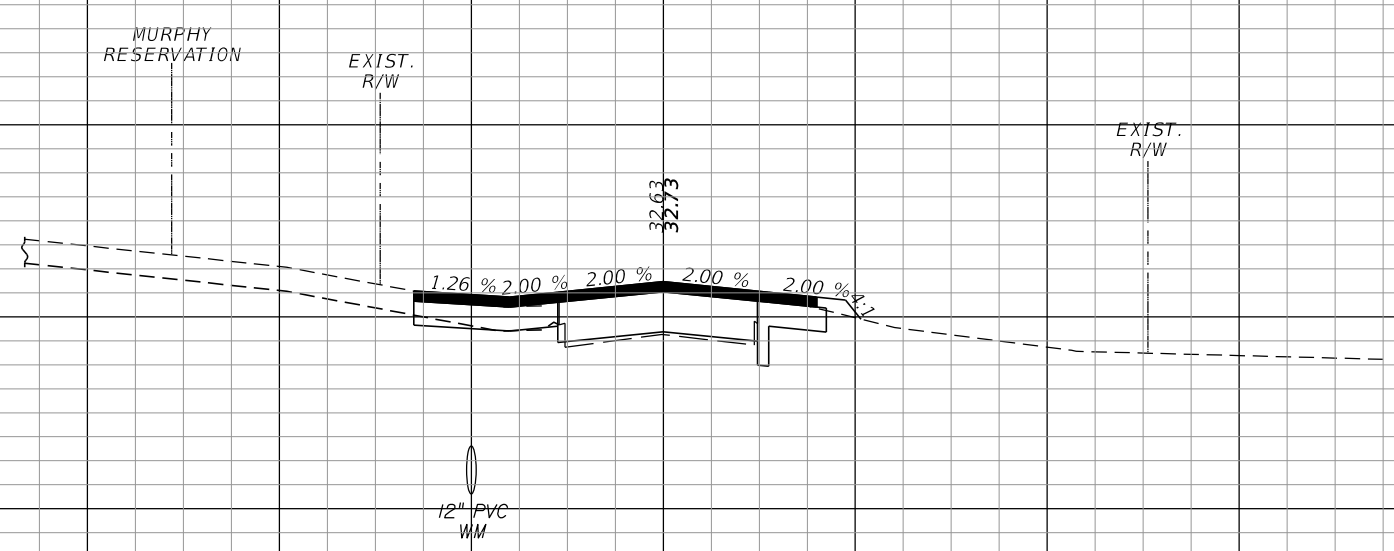
69TH STREET
 CROSS SECTIONS

SHEET NO.
 95

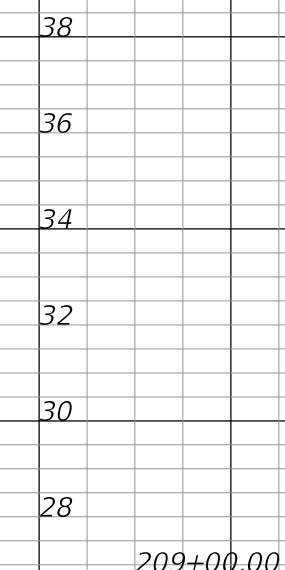
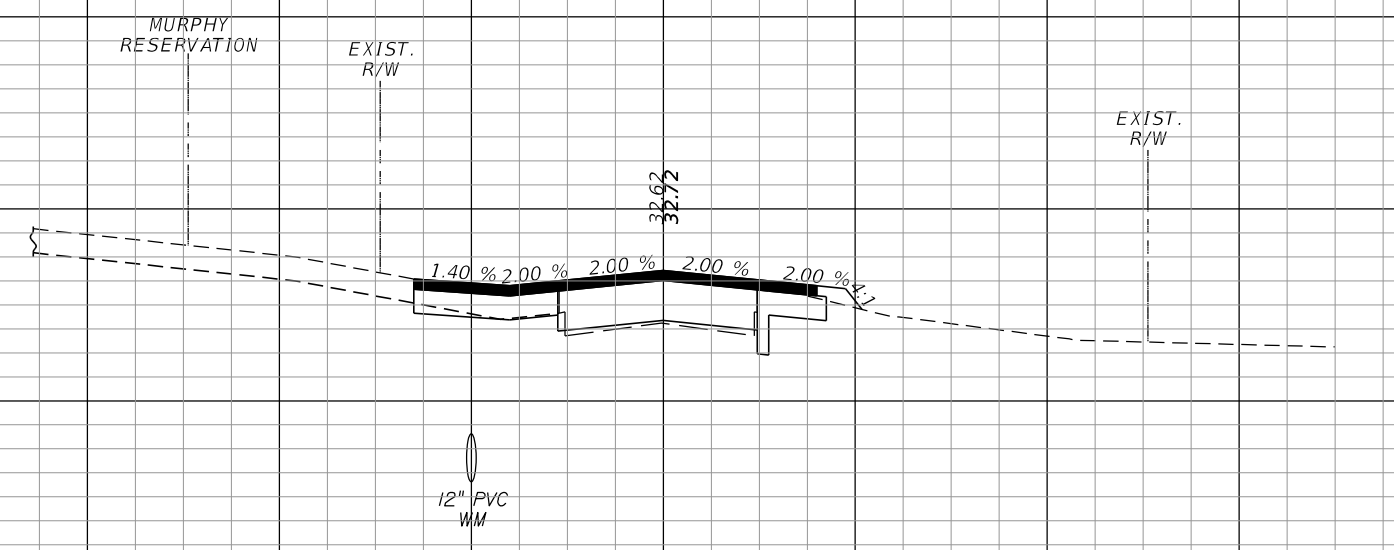
Regular Exc. A V Embankment A V

1639 I.R.CO. Proj. No.

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209+01.54	32.4	1.8	1.0	0.1
-----------	------	-----	-----	-----



209+00.00	32.2	109.4	1.1	8.4
-----------	------	-------	-----	-----

SCALE HOR: 1"=20'
VER: 1"=4'

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
 445 24TH STREET, SUITE 200
 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

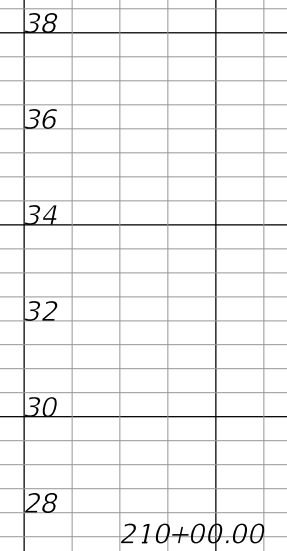
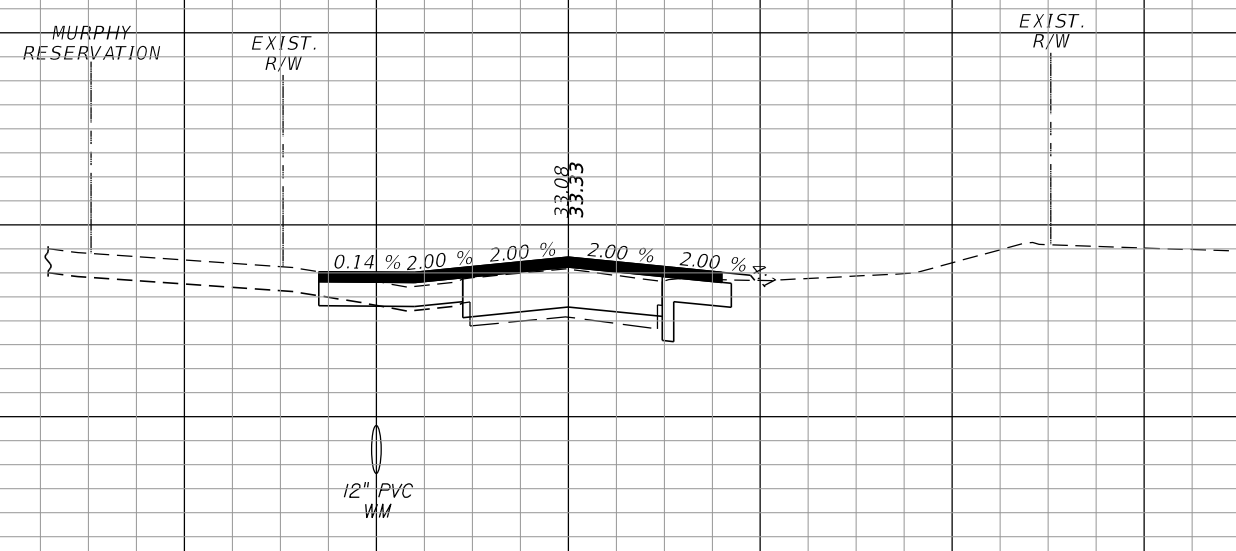
69TH STREET
 CROSS SECTIONS

SHEET NO.
 96

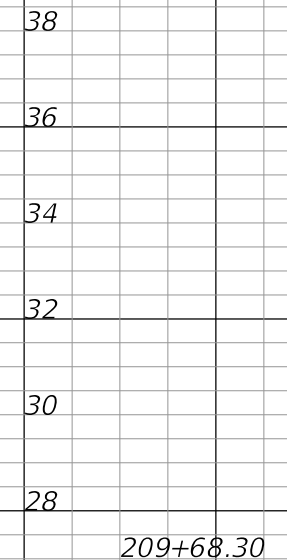
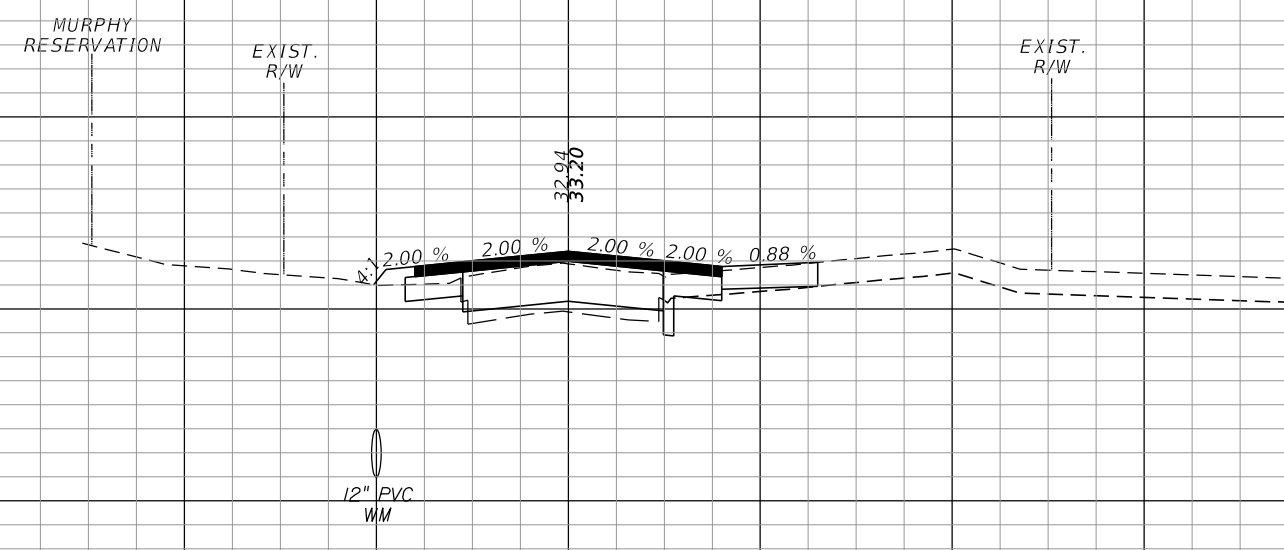
Regular Exc. A V Embankment A V

1639 I.R.CO. Proj. No.

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28.5	32.2	0.4	0.9
------	------	-----	-----



26.4	72.7	1.1	2.6
------	------	-----	-----

SCALE HOR: 1"=20'
VER: 1"=4'

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 BRIAN A. GOOD, P.E.
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

69TH STREET
 CROSS SECTIONS

SHEET NO.
 97

Regular Exc. A V Embankment A V

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MURPHY RESERVATION

EXIST. R/W

EXIST. R/W

38

36

34

32

30

28

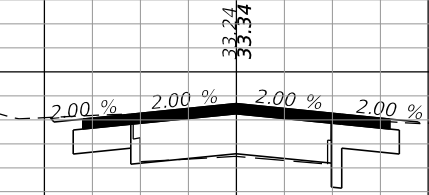
211+00.00

30.2

109.6

0.1

0.9



MURPHY RESERVATION

EXIST. R/W

EXIST. R/W

38

36

34

32

30

28

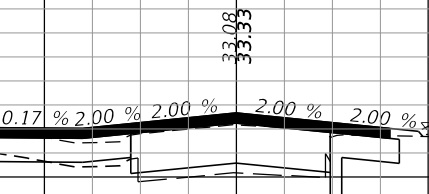
210+00.21

29.1

0.2

0.4

0.0



120

100

80

60

40

20

0

20

40

60

80

SCALE HOR: 1"=20'

VER: 1"=4'

100

120

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
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INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
69TH STREET FROM 66TH AVENUE
TO SR5/US-1, RESURFACING

69TH STREET
CROSS SECTIONS

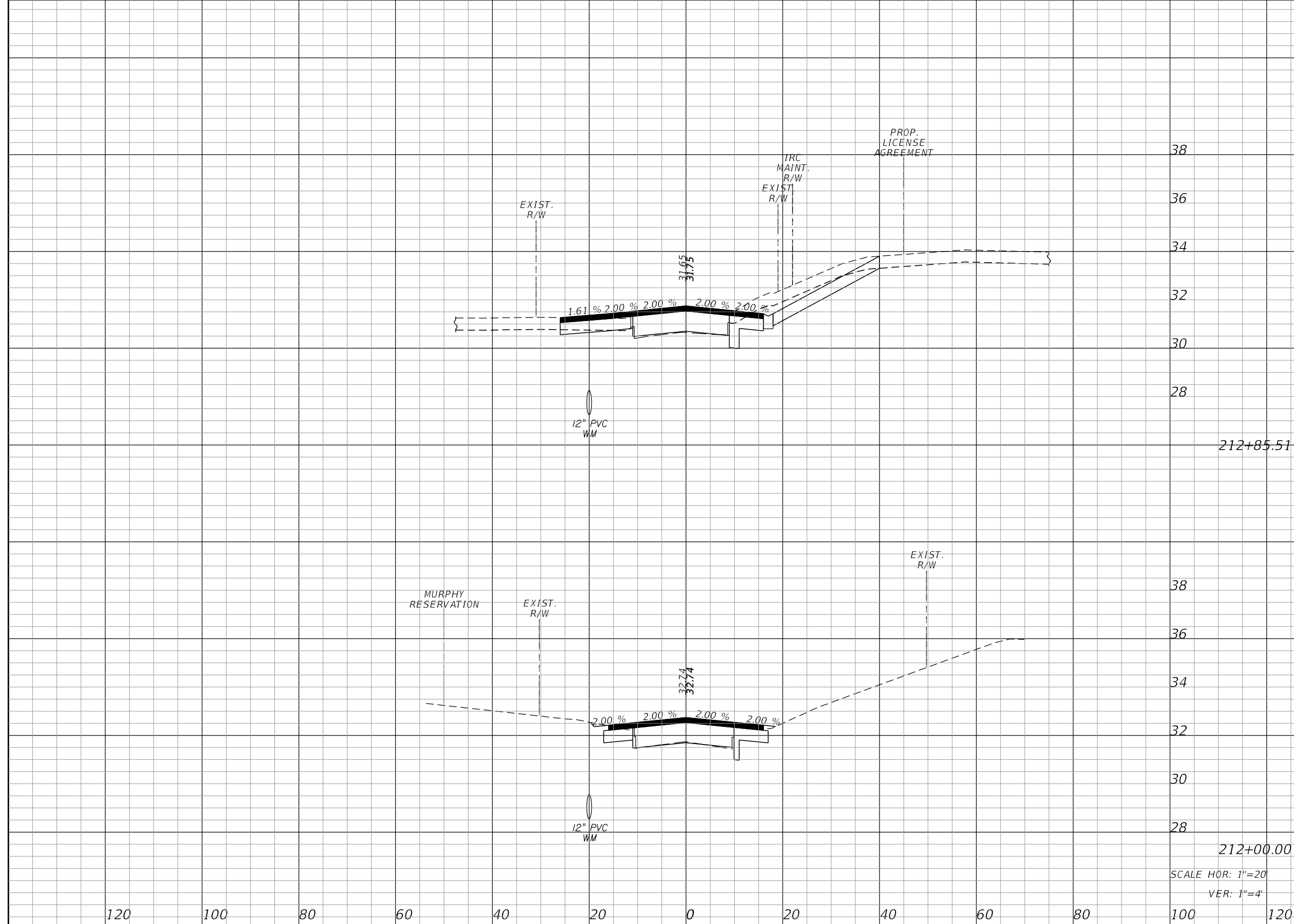
SHEET NO.

98

Regular Exc. A V Embankment A V

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I.R.CO. Proj. No. 1639



Regular Exc.		Embankment	
A	V	A	V
56.0	134.9	0.0	0.3
29.2	110.0	0.2	0.6

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

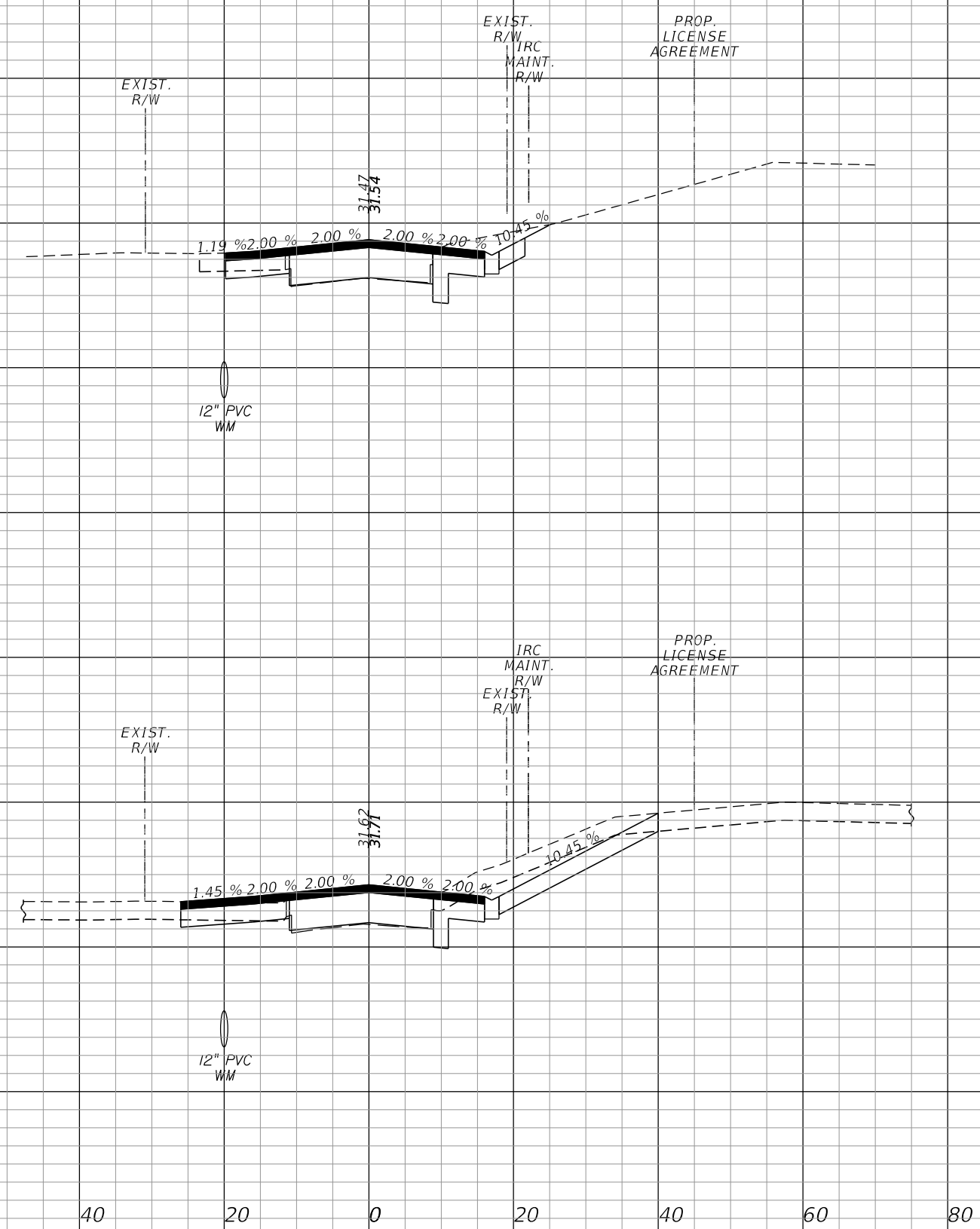
69TH STREET
 CROSS SECTIONS

SHEET NO.
 99

Regular Exc. A V Embankment A V

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I.R.CO. Proj. No. 1639



36			
34			
32			
30			
28			
213+00.00	37.7	21.1	0.0
38			
36			
34			
32			
30			
28			
212+87.86	56.0	4.9	0.0

SCALE HOR: 1"=20'
VER: 1"=4'

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

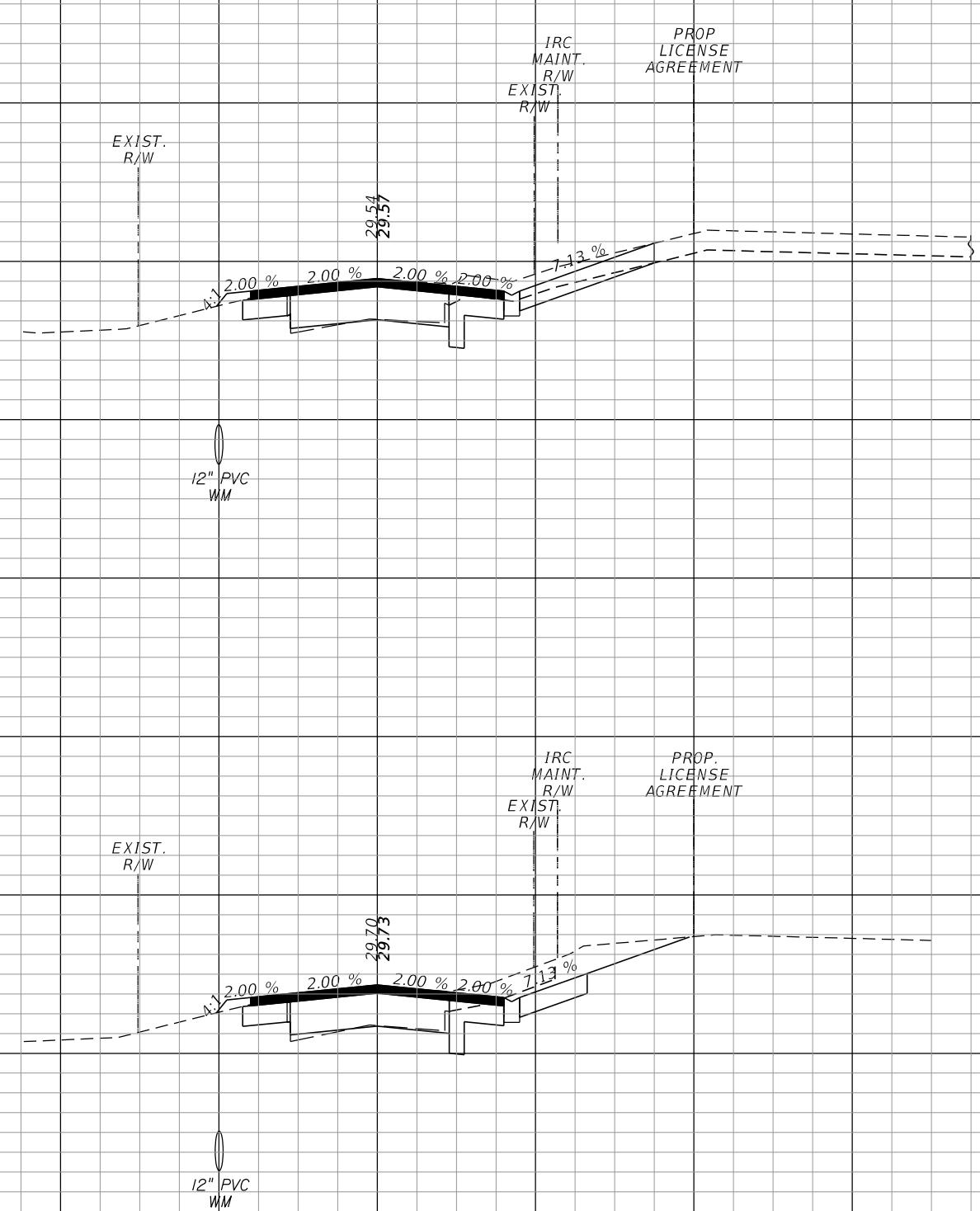
69TH STREET
 CROSS SECTIONS

SHEET NO.
 100

Regular Exc. A V Embankment A V

1639 I.R.CO. Proj. No.

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36			
34			
32			
30			
28			
26			
24	214+07.58	43.4	12.7
34			
32			
30			
28			
26			
24	214+00.00	47.4	157.6
22			
20			

SCALE HOR: 1"=20'
VER: 1"=4'

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

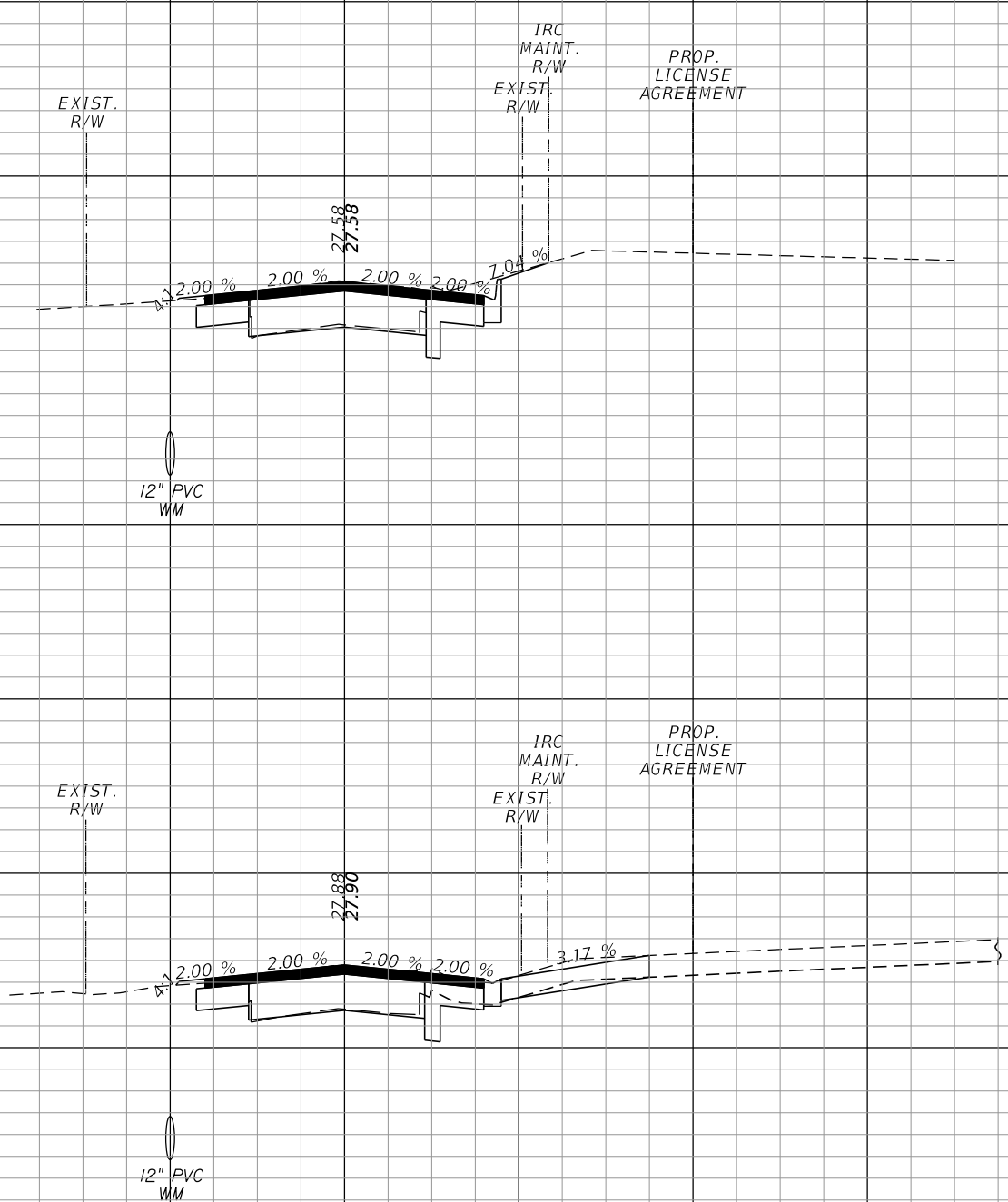
69TH STREET
 CROSS SECTIONS

SHEET NO.
 101

Regular Exc. A V Embankment A V

1639 I.R.CO. Proj. No.

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32
30
28
26
24
215+00.00
32
30
28
26
24
214+85.15
SCALE HOR: 1"=20'
VER: 1"=4'

34.5	18.9	0.2	0.1
34.4	111.8	0.3	1.6

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

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

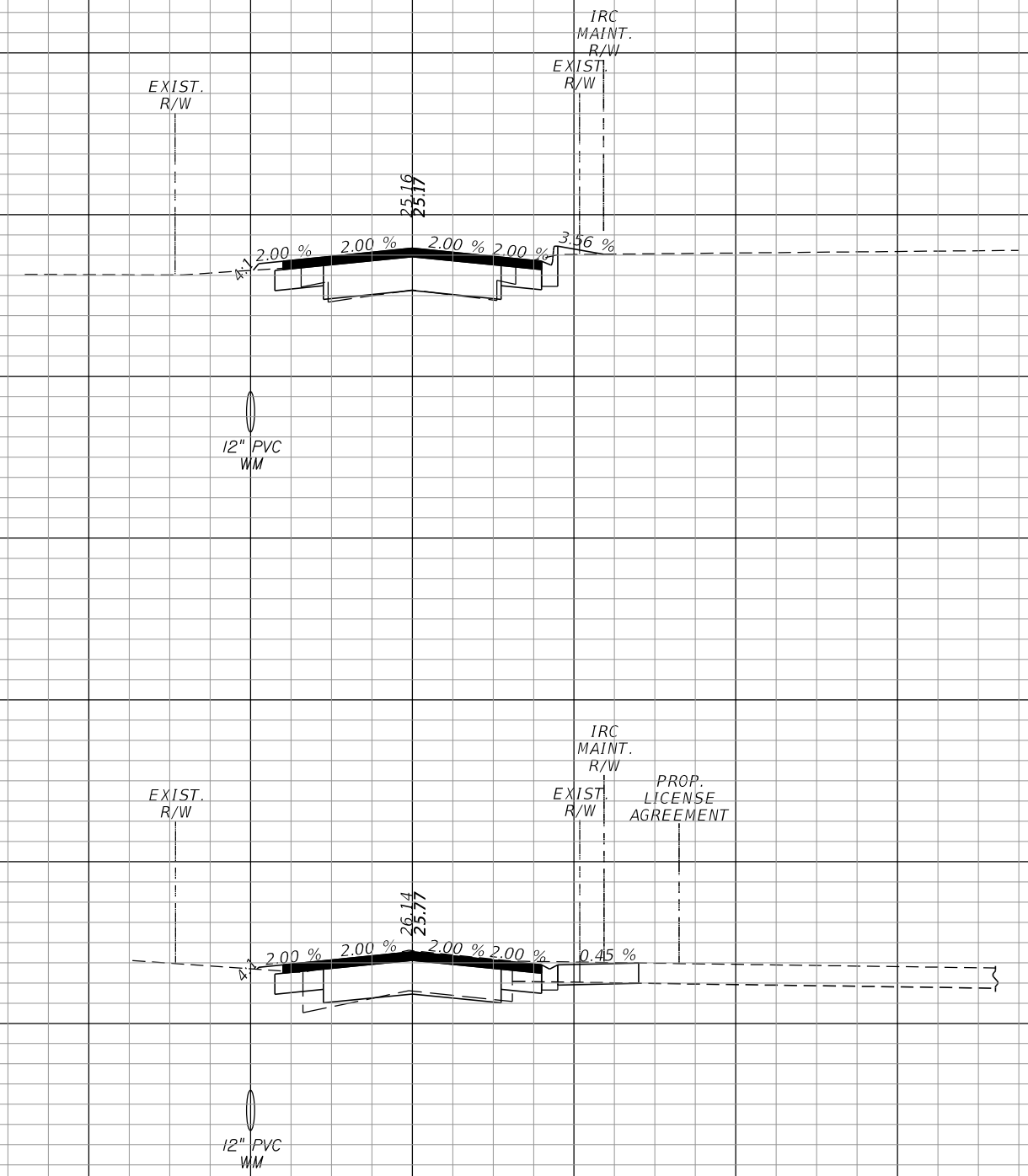
69TH STREET
 CROSS SECTIONS

SHEET NO.
 102

Regular Exc. A V Embankment A V

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30			
28			
26			
24			
22			
20	216+00.00	29.3	21.3
30			
28			
26			
24			
22	215+82.45	36.1	107.8
20			

SCALE HOR: 1"=20'
VER: 1"=4'

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

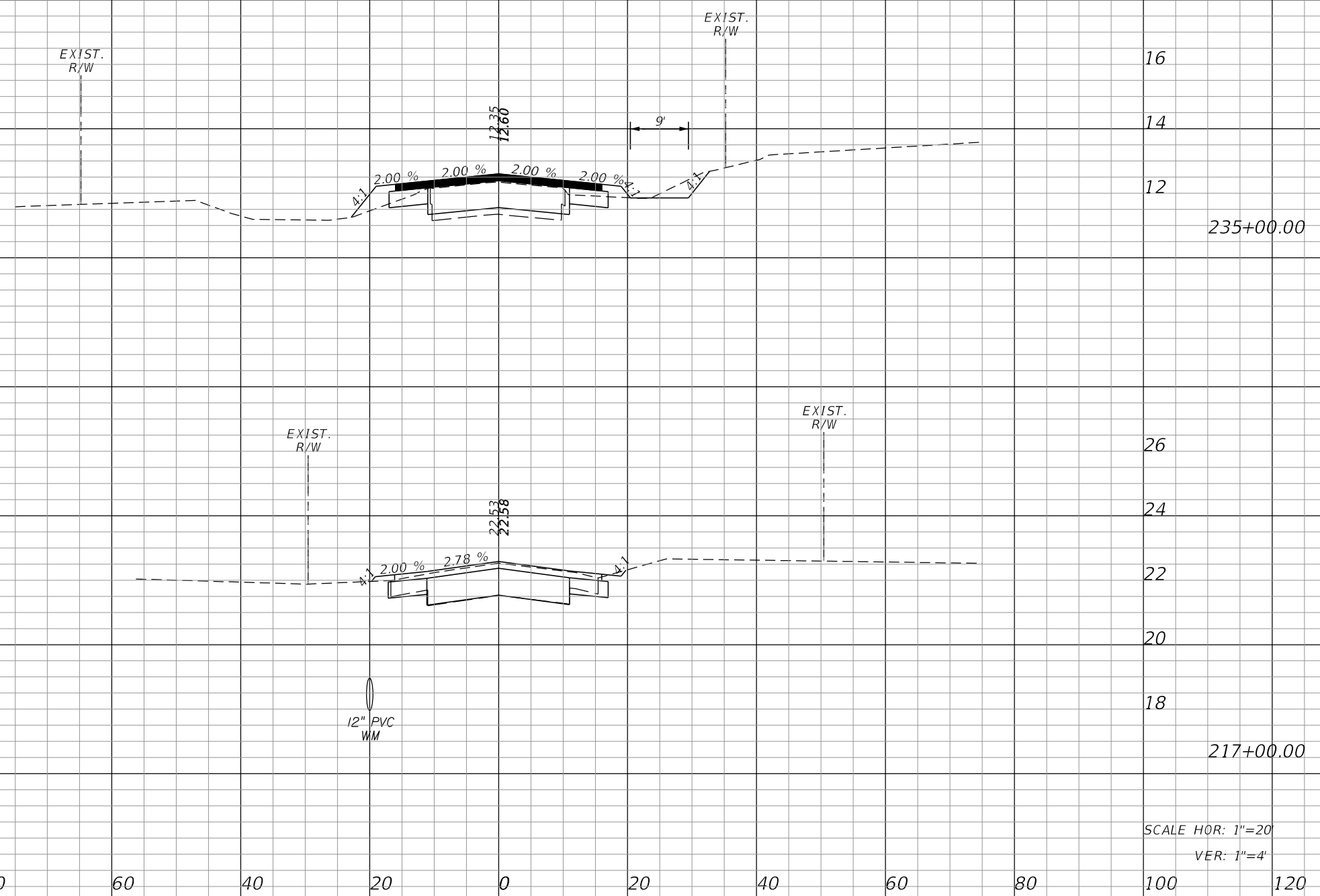
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

69TH STREET
 CROSS SECTIONS

SHEET NO.
 103



21.1	2013.3	4.0	133.3
39.3	127.0	0.0	0.9

SCALE HOR: 1"=20'
VER: 1"=4'

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

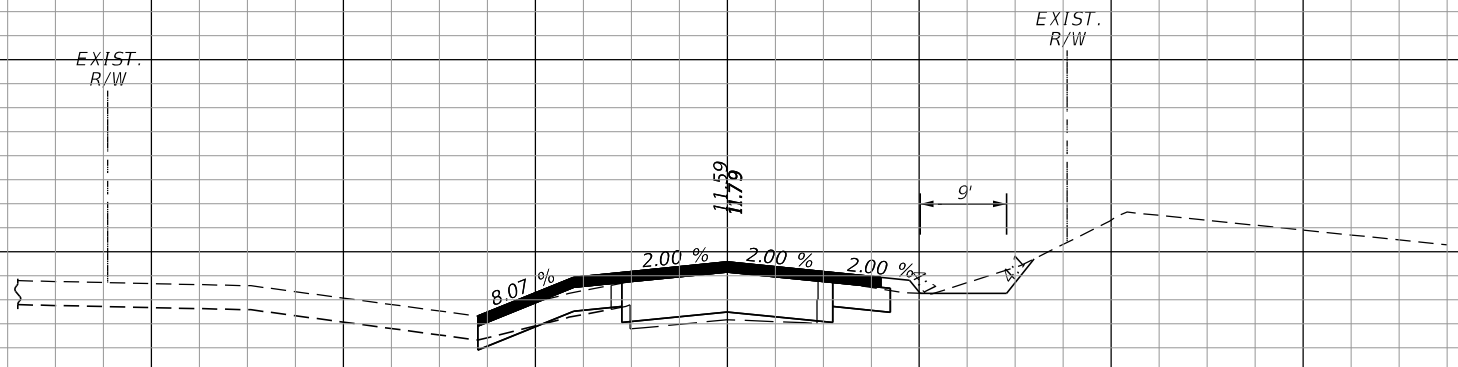
69TH STREET
 CROSS SECTIONS

SHEET NO.
104

Regular Exc. A V Embankment A V

1639 I.R.CO. Proj. No.

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16
14
12
10
236+00.00
29.8

0.3
0.0
0.9



16
14
12
10
235+99.77
29.7

93.9
9.1
0.9

SCALE HOR: 1"=20'
VER: 1"=4'

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

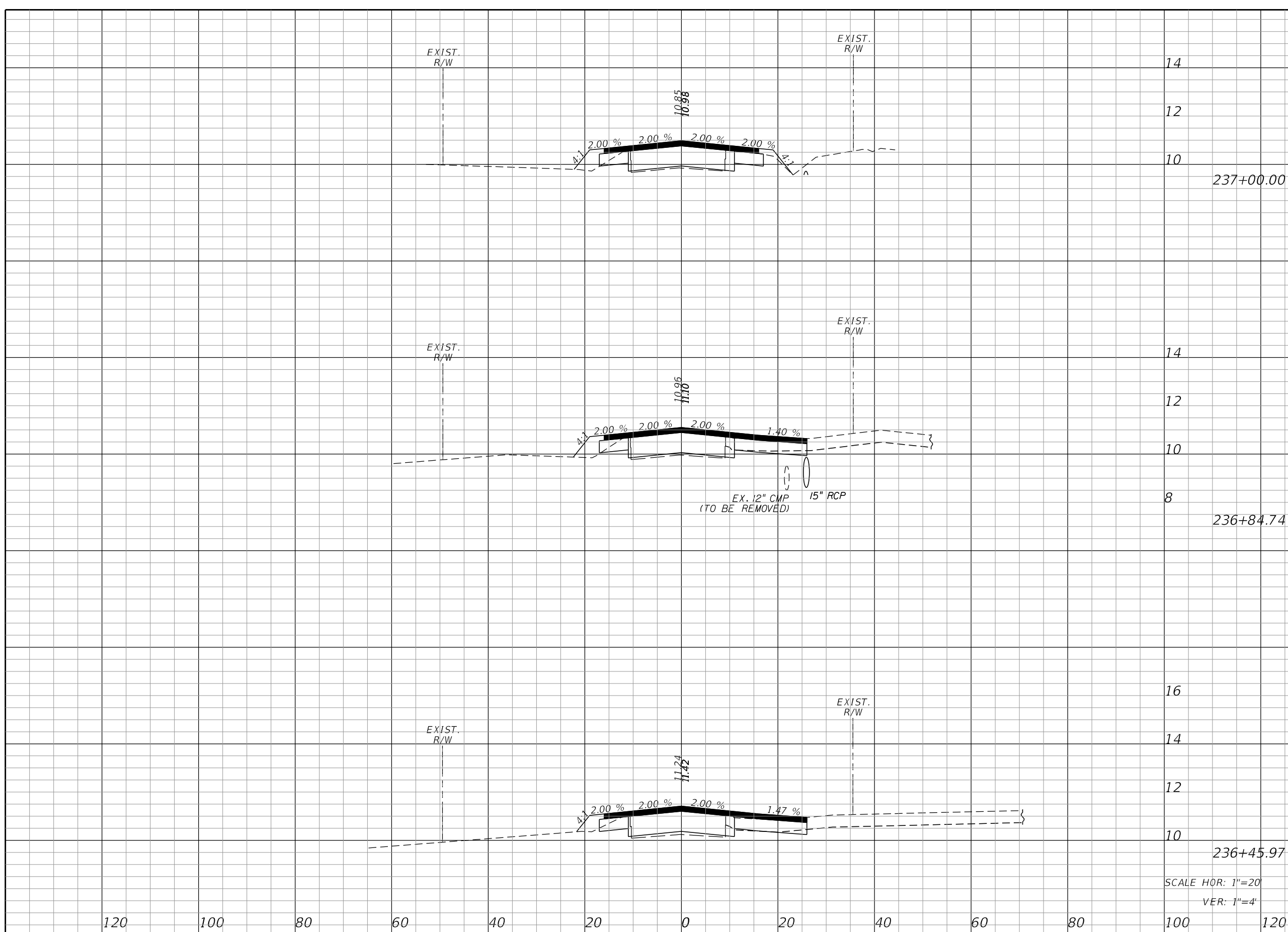
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

69TH STREET
 CROSS SECTIONS

SHEET NO.
 105



Regular		Exc.		Embankment	
A	V	A	V	A	V
25.6	16.0	4.4	2.2		
30.9	43.7	3.4	4.2		
30.0	50.9	2.4	2.8		

SCALE HOR: 1"=20'
VER: 1"=4'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

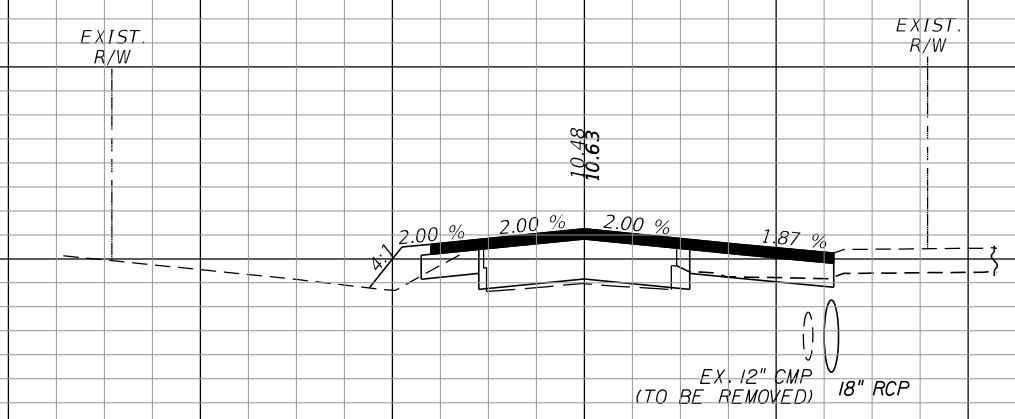
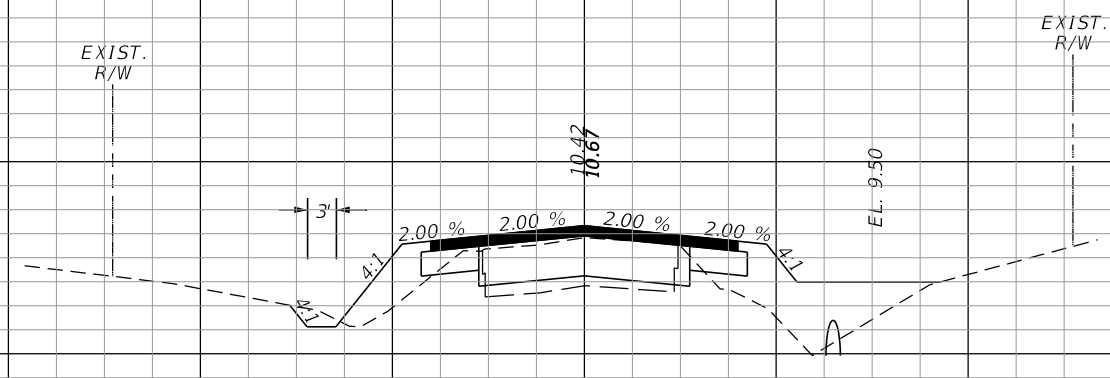
Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
 445 24TH STREET, SUITE 200
 VERO BEACH, FL 32960
 (772) 794-4100
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

69TH STREET
 CROSS SECTIONS

SHEET NO.
106

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14
12
10
8
14
12
10
8
100
120

238+00.00
237+59.85
SCALE HOR: 1"=20'
VER: 1"=4'

18.9	37.2	18.7	16.3
31.1	62.8	3.2	8.4

REVISIONS			
DATE	BY	DESCRIPTION	

Kimley»Horn
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

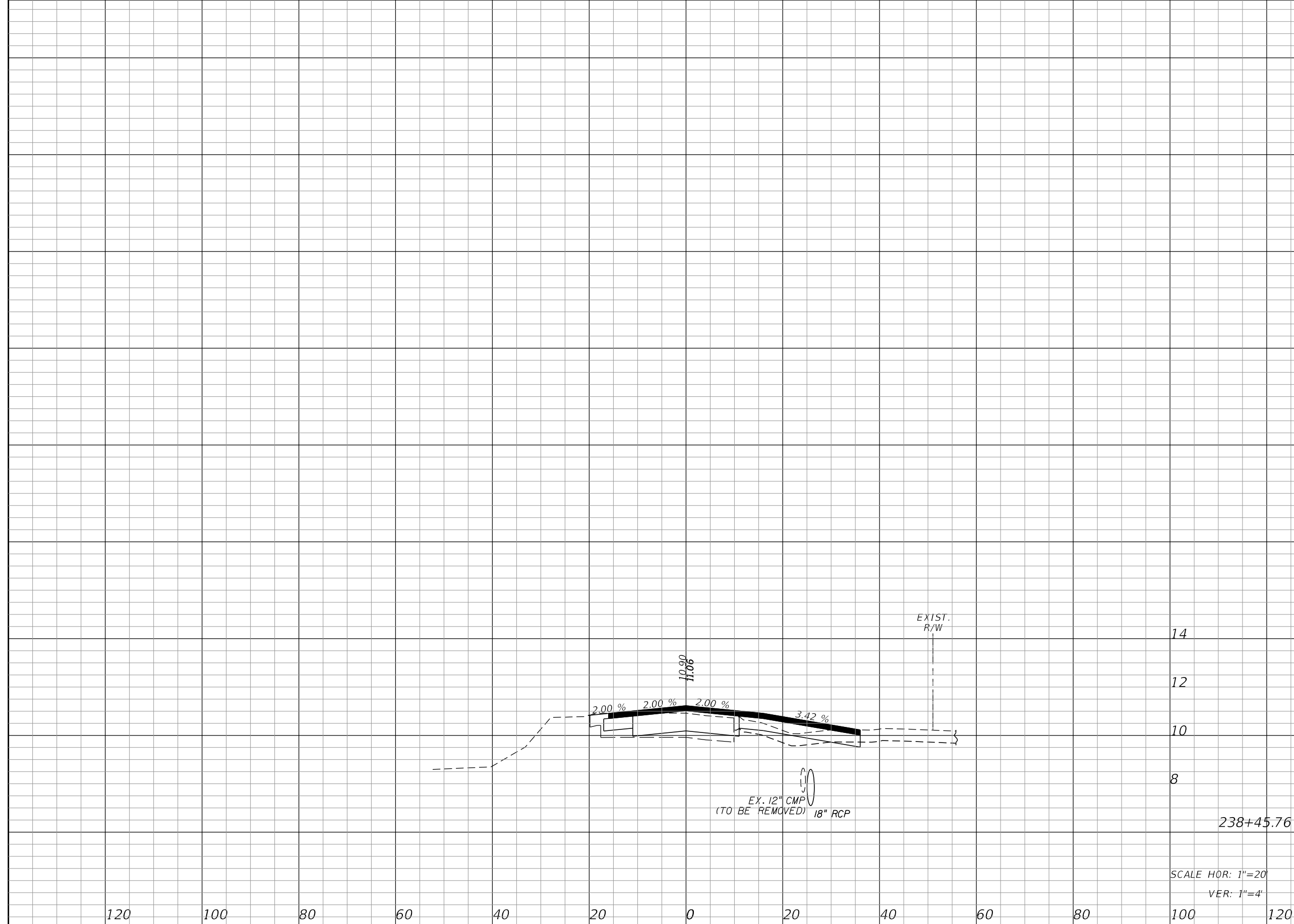
69TH STREET
 CROSS SECTIONS

SHEET NO.
 107

Regular Exc. Embankment
 A V A V

I.R.CO. Proj. No. 1639

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120	100	80	60	40	20	0	20	40	60	80	100	120	30.0	41.4	0.0	15.8
												238+45.76				
												SCALE HOR: 1"=20'				
												VER: 1"=4'				

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

69TH STREET
 CROSS SECTIONS

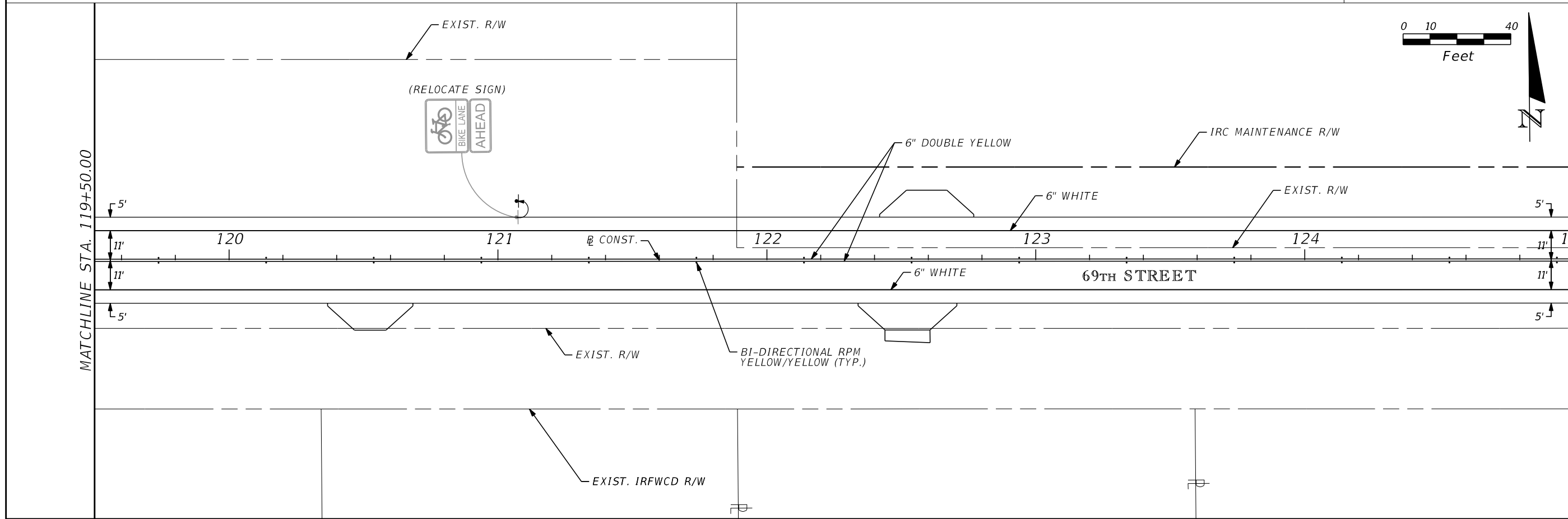
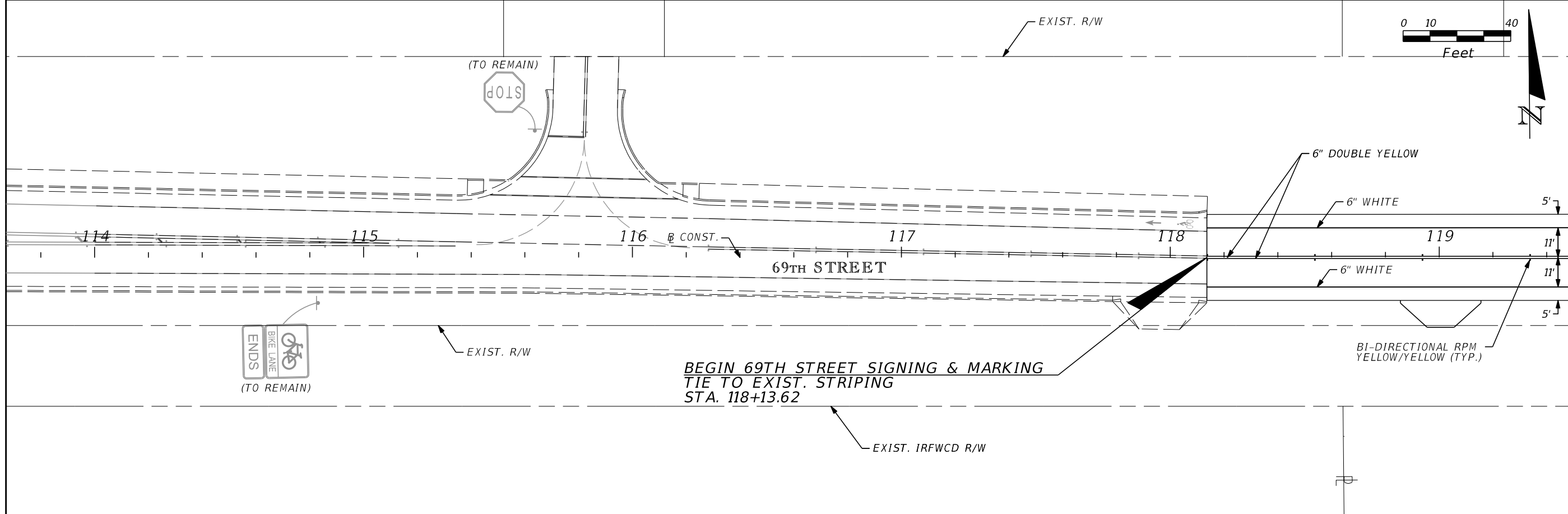
SHEET NO.
 108

SIGNING AND MARKING TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			111		112		113		114		115		116		117		118		119		120		PLAN	FINAL	PLAN	FINAL	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
700-1-11	SINGLE POST SIGN (FURNISH & INSTALL) (LESS THAN 12 SF)	AS			2								6		5		1				4		18		18		
700-1-13	SINGLE POST SIGN (FURNISH & INSTALL) (20-30 SF)	AS																			1		1		1		
700-1-50	SINGLE POST SIGN (RELOCATE)	AS	1																				1		1		
700-13-15	RETRO-REFLECTIVE SIGN STRIP, 5'	EA																			1		1		1		
706-3	RETRO-REFLECTIVE PAVEMENT MARKERS	EA	36		27		35		16		44		46		54		54		28		22		362		362		
711-11-121	TRAFFIC STRIPE SOLID (THERMOPLASTIC) (WHITE) (6")	LF	1373		2200		2200		678		2019		1915		2087		2075		1115		818		16480		16480		
711-11-125	TRAFFIC STRIPE SOLID (THERMOPLASTIC) (WHITE) (24")	LF											34		12		10				55		111		111		
711-11-141A	TRAFFIC STRIPE SKIP (THERMOPLASTIC) (WHITE) (6") (6'-10')	LF																			107		107		107		
711-11-141B	TRAFFIC STRIPE SKIP (THERMOPLASTIC) (WHITE) (6") (2'-4')	LF												100		50		50					200		200		
711-11-160	PAVEMENT MESSAGE (THERMOPLASTIC) (WHITE)	EA																			1		1		1		
711-11-221	TRAFFIC STRIPE SOLID (THERMOPLASTIC) (YELLOW) (6")	LF	1373		28		275		339		826		1572		2120		2218		1115		830		10696		10696		
711-11-224	TRAFFIC STRIPE SOLID (THERMOPLASTIC) (YELLOW) (18")	LF											38										38		38		
711-11-241	TRAFFIC STRIPE SKIP (THERMOPLASTIC) (YELLOW) (6") (10'-30')	LF			1087		1100		339		1010		484										4020		4020		

REVISIONS						 <small>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696</small>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 69TH STREET FROM 66TH AVENUE TO SR5/US-1, RESURFACING	SIGNING & MARKING TABULATION OF QUANTITIES	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				109

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

SIGNING AND MARKING

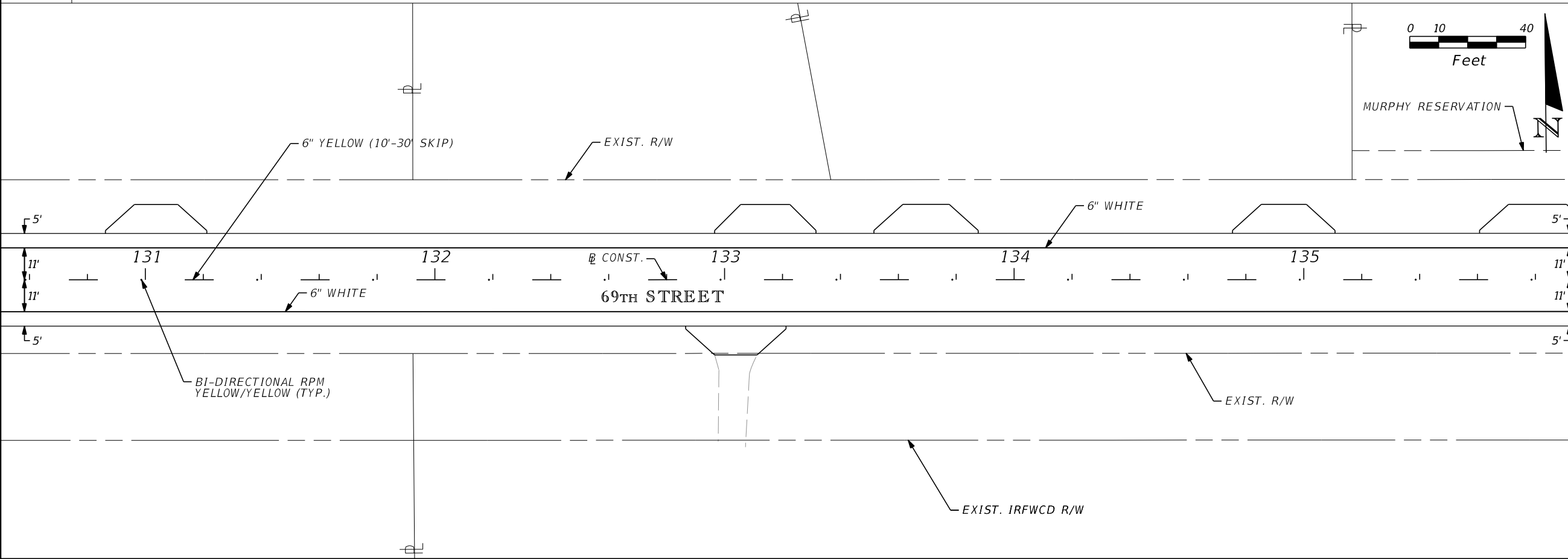
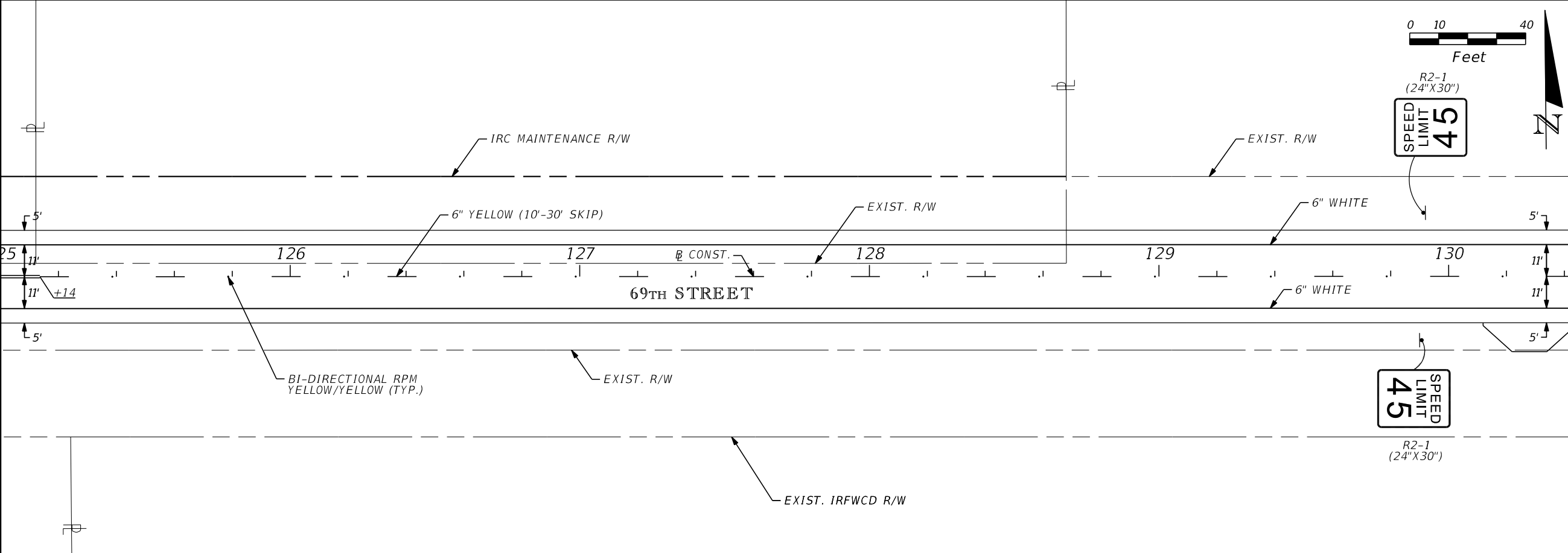
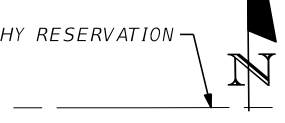
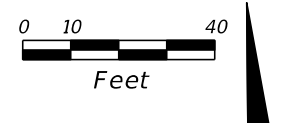
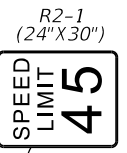
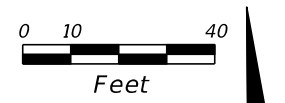
SHEET NO.
 111

MATCHLINE STA. 125+00.00

MATCHLINE STA. 130+50.00

MATCHLINE STA. 130+50.00

MATCHLINE STA. 136+00.00



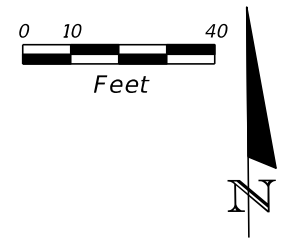
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

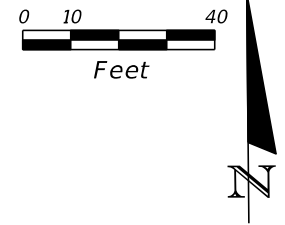
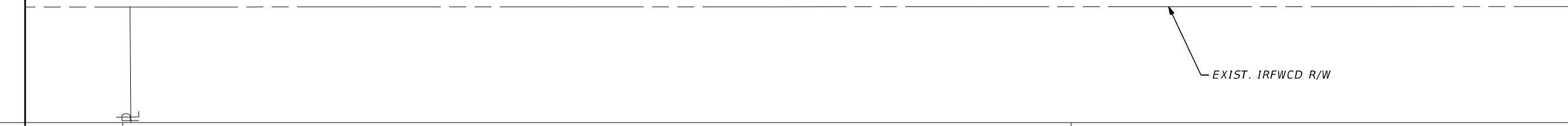
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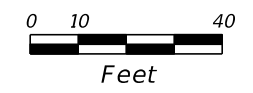
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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 P.E. LICENSE NUMBER 56939
 445 24th STREET, SUITE 200
 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

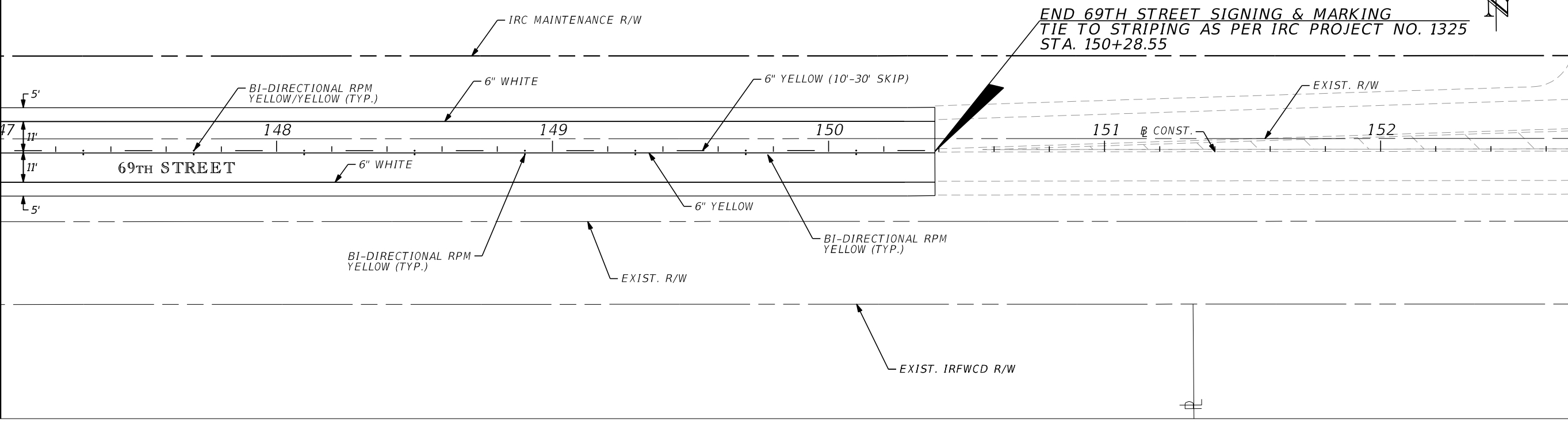
INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

SIGNING AND MARKING

SHEET NO.
 113

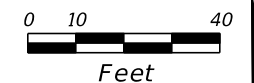


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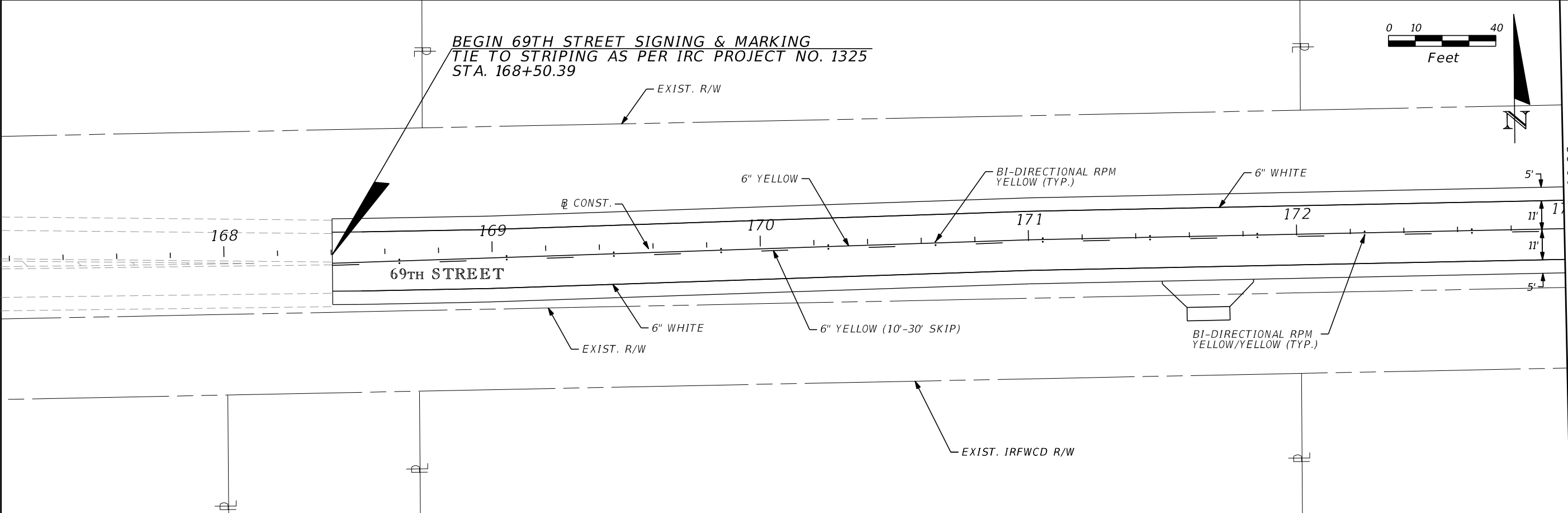


1639
I.R.CO. Proj. No.
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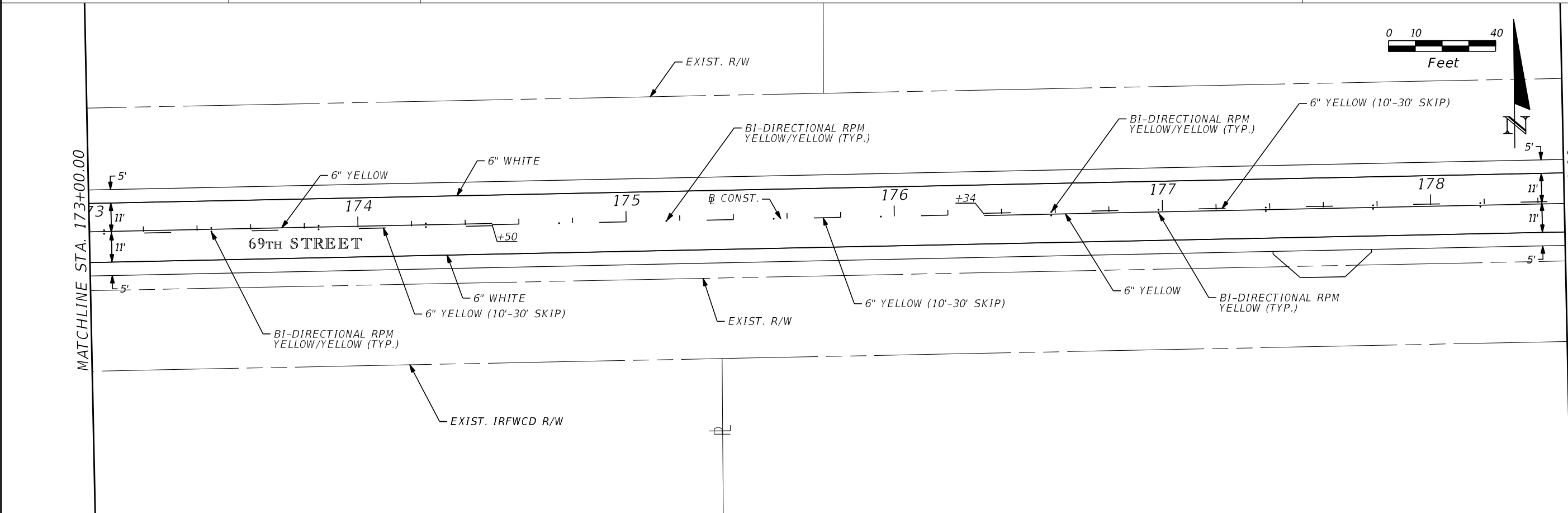
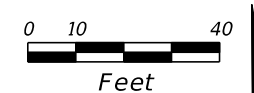
REVISIONS						 <small>BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696</small>	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 69TH STREET FROM 66TH AVENUE TO SR5/US-1, RESURFACING	SIGNING AND MARKING	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				114



BEGIN 69TH STREET SIGNING & MARKING
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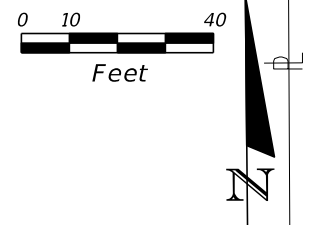
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

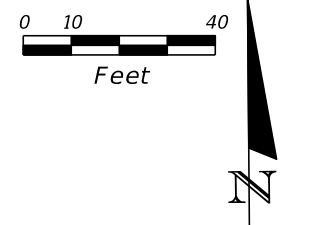
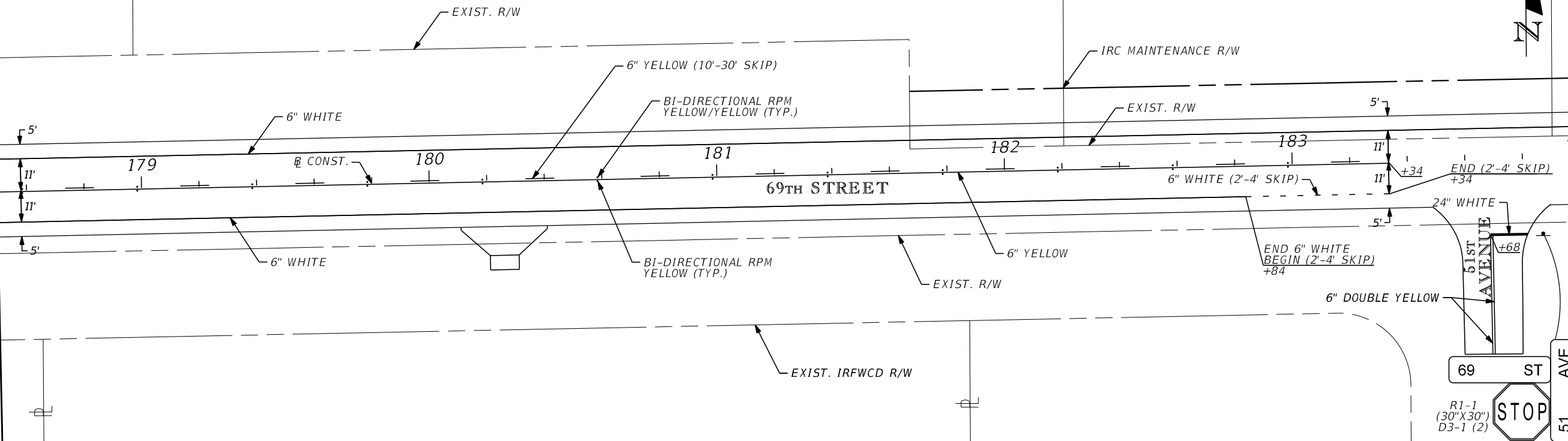
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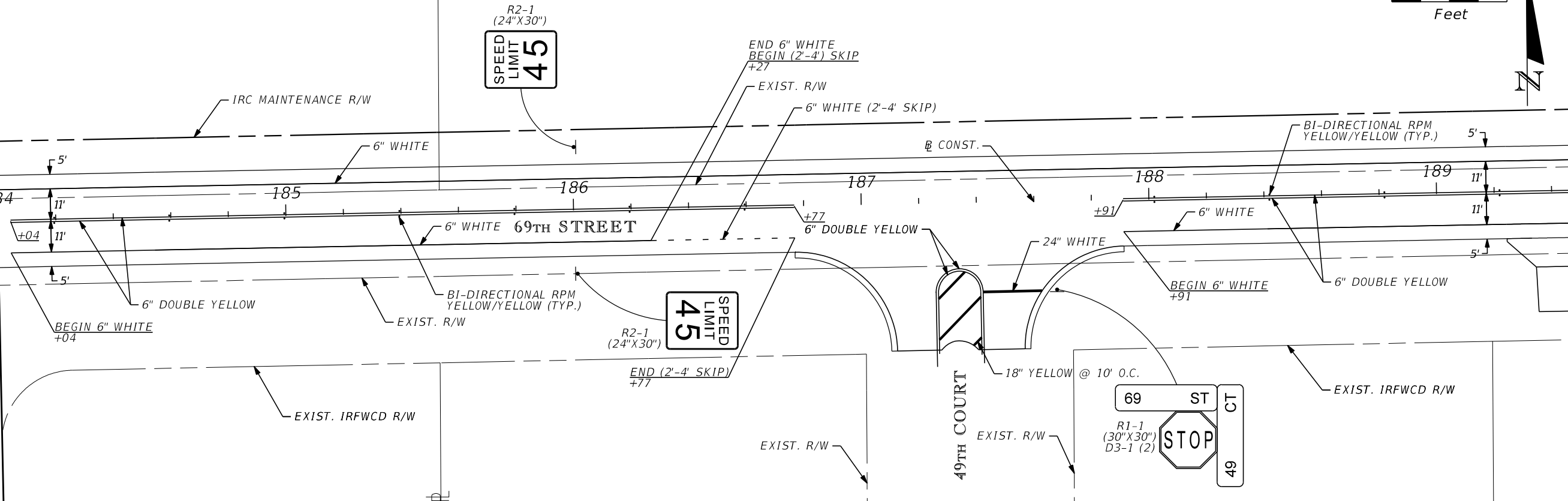
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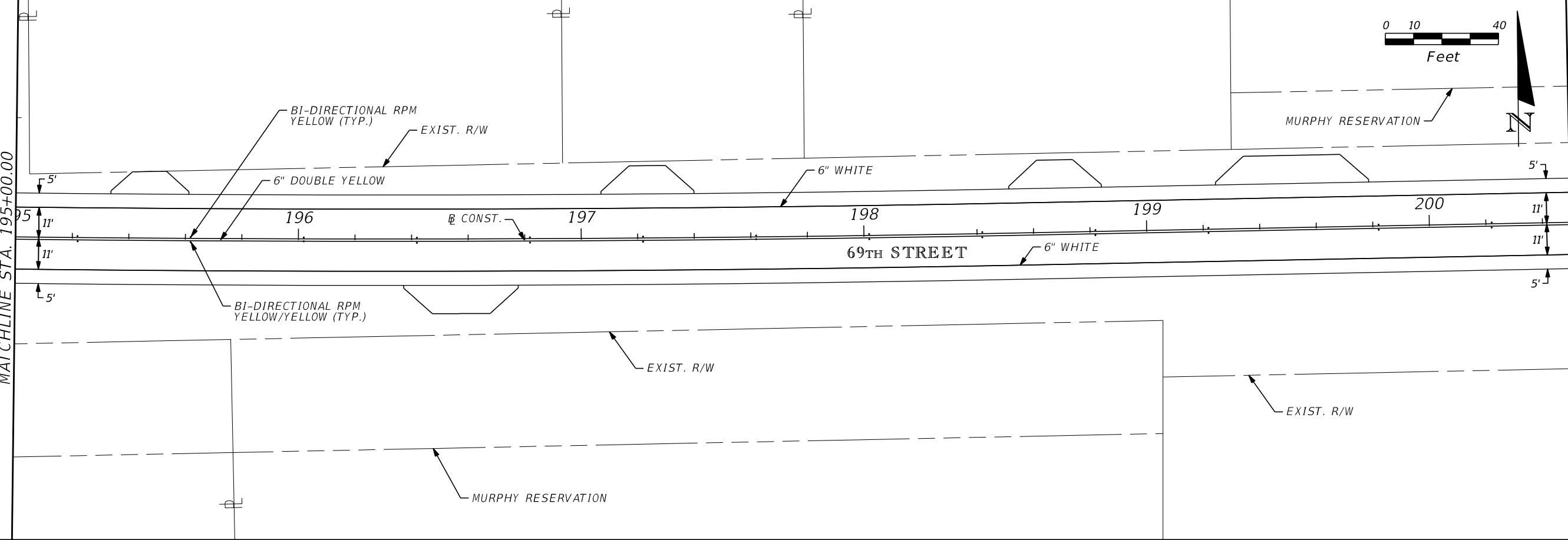
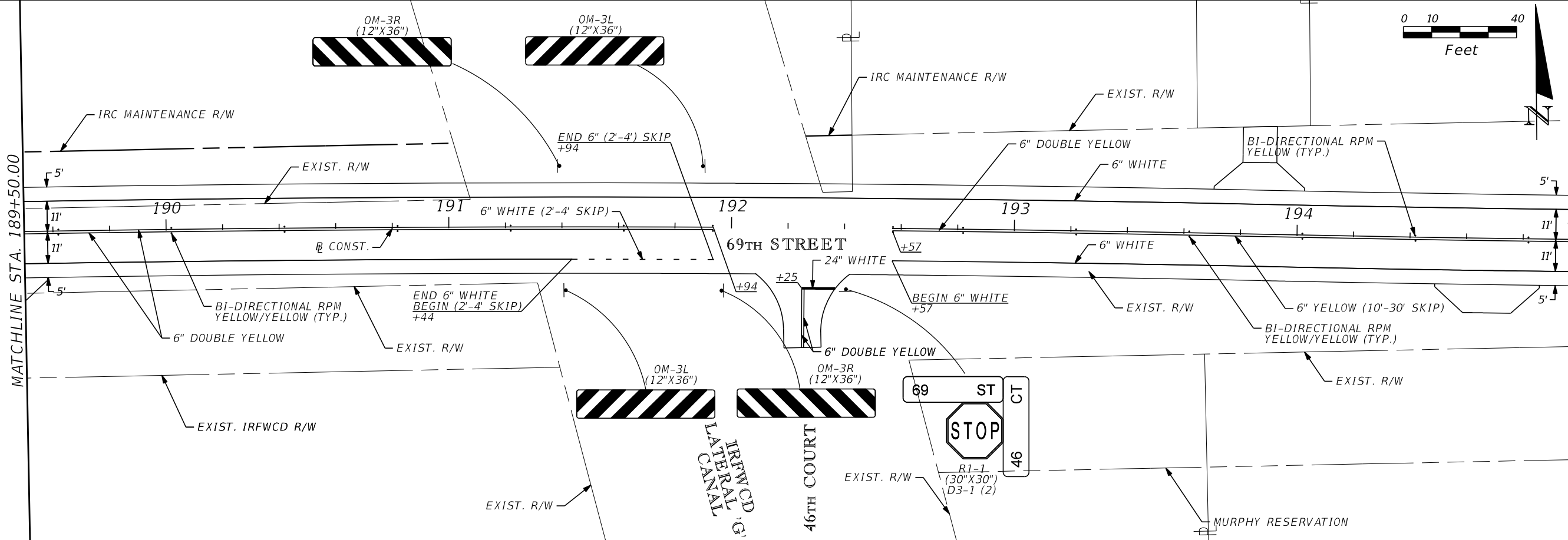
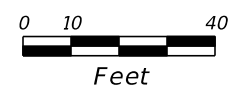
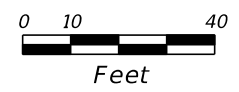
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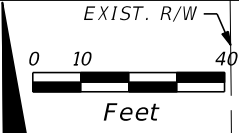
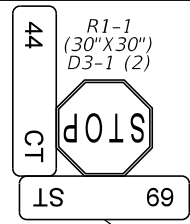
INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
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SIGNING AND MARKING

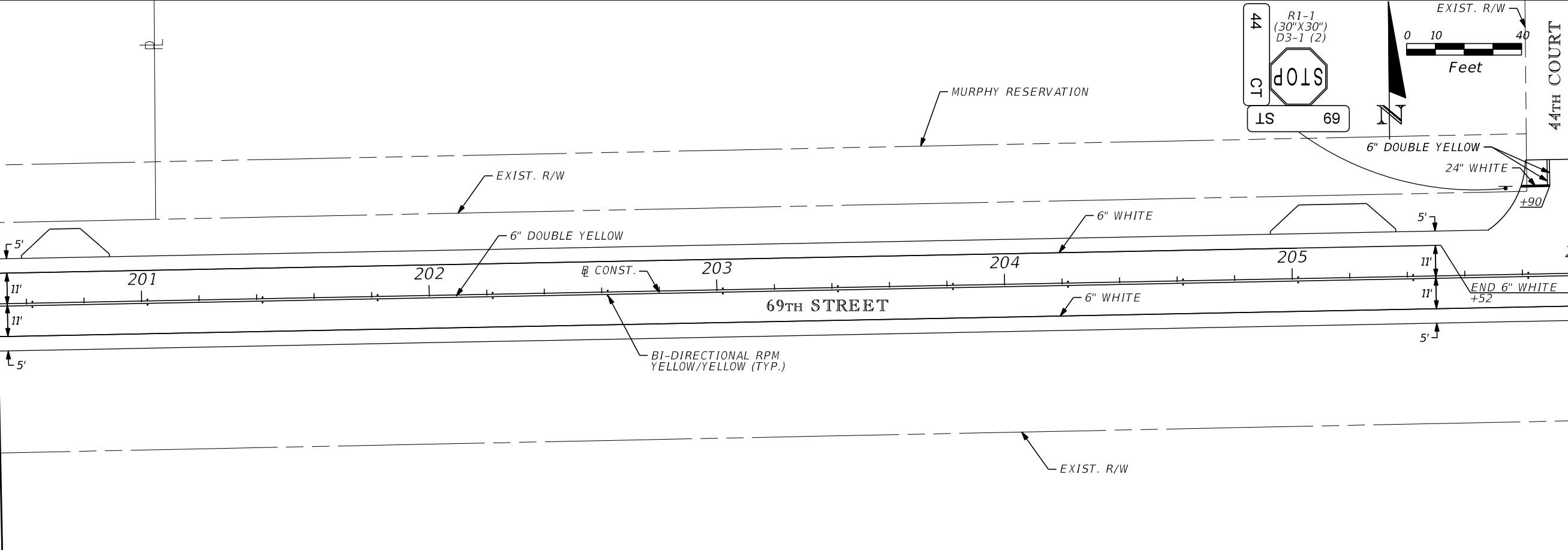
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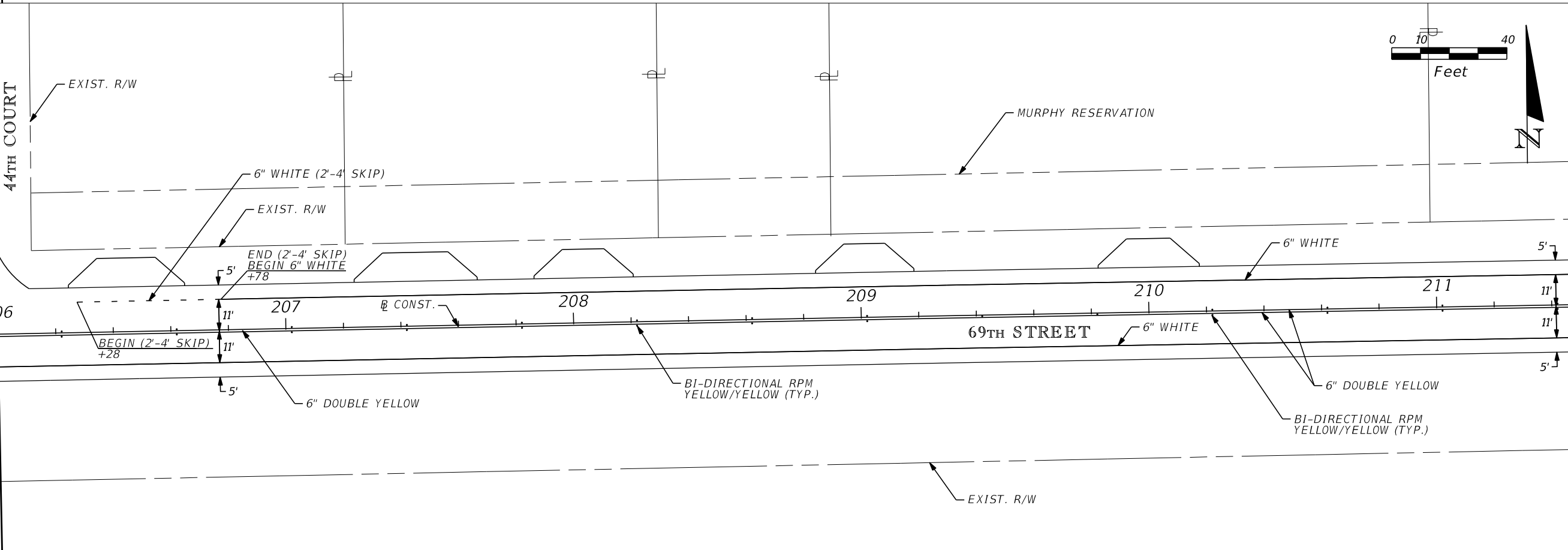
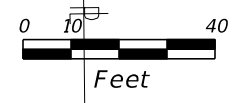


44TH COURT



MATCHLINE STA. 206+00.00

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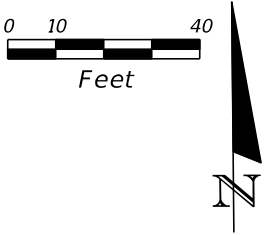
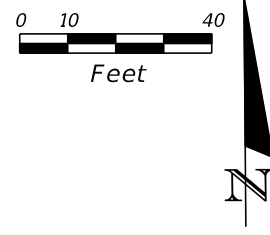
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 TO SR5/US-1, RESURFACING

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SHEET NO.
118



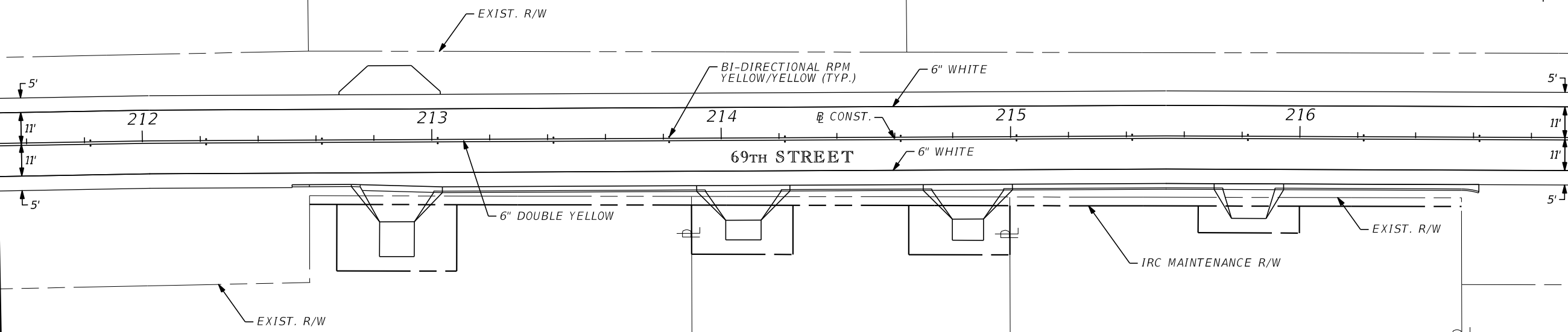
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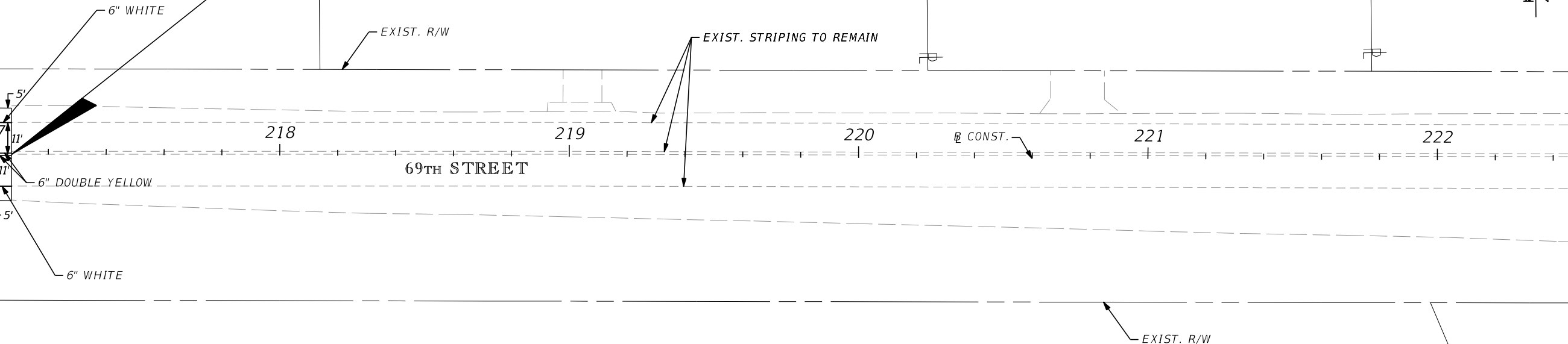
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MURPHY RESERVATION



**END 69TH STREET SIGNING & MARKING
TIE TO EXIST. STRIPING
STA. 217+07.44**



REVISIONS					
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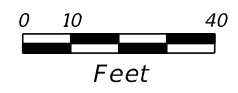
**INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
69TH STREET FROM 66TH AVENUE
TO SR5/US-1, RESURFACING**

SIGNING AND MARKING

SHEET NO.
119

MATCHLINE STA. 222+50.00

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EXIST. R/W
EXIST. STRIPING TO REMAIN

EXIST. R/W

EXIST. STRIPING TO REMAIN

223

224

225

226

227

228

CONST.

69TH STREET

(TO REMAIN)
RUSSELL CONCRETE
MID-STATE MECHANICAL
NEW HOPE MINISTRIES
CEMETERY

EXIST. R/W

(TO REMAIN)
RUSSELL CONCRETE
MID-STATE MECHANICAL
NEW HOPE MINISTRIES
CEMETERY

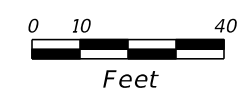
PRESERVE WAY

(TO REMAIN)
STOP
69 ST
PRESERVE WAY

EXIST. R/W

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MATCHLINE STA. 232+00.00



EXIST. R/W

EXIST. STRIPING TO REMAIN

228

229

CONST.

230

231

232

69TH STREET

EXIST. R/W

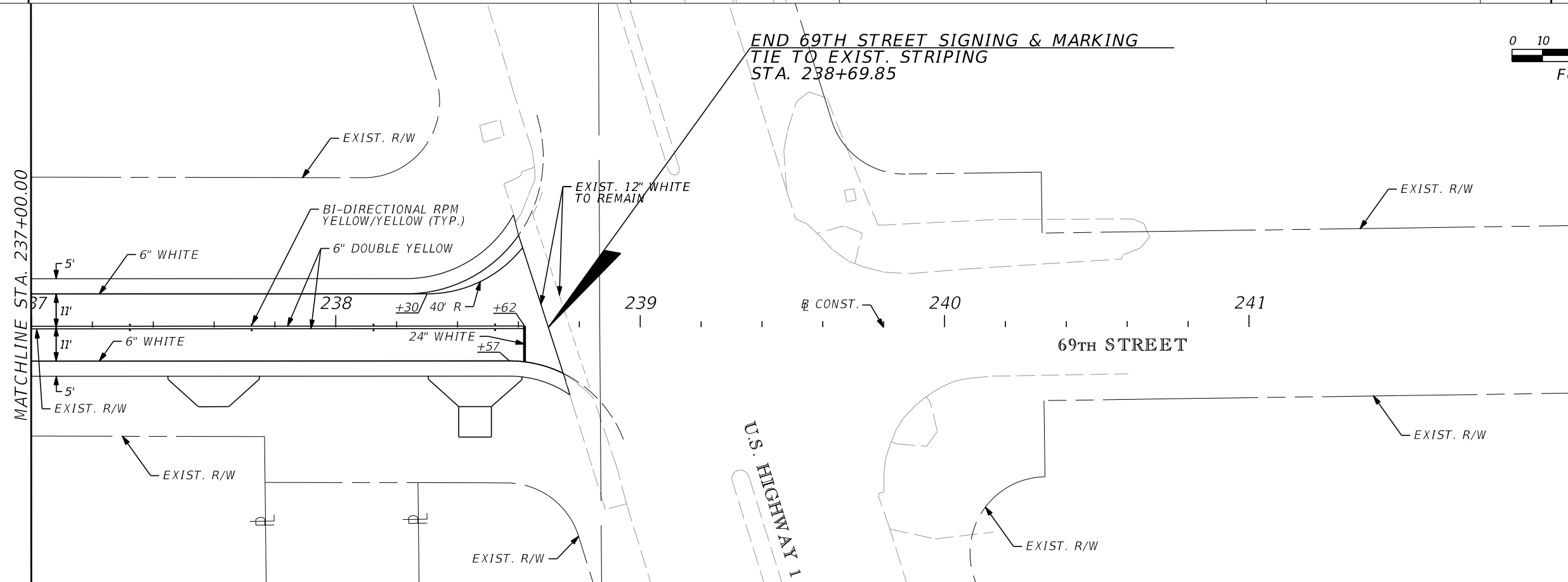
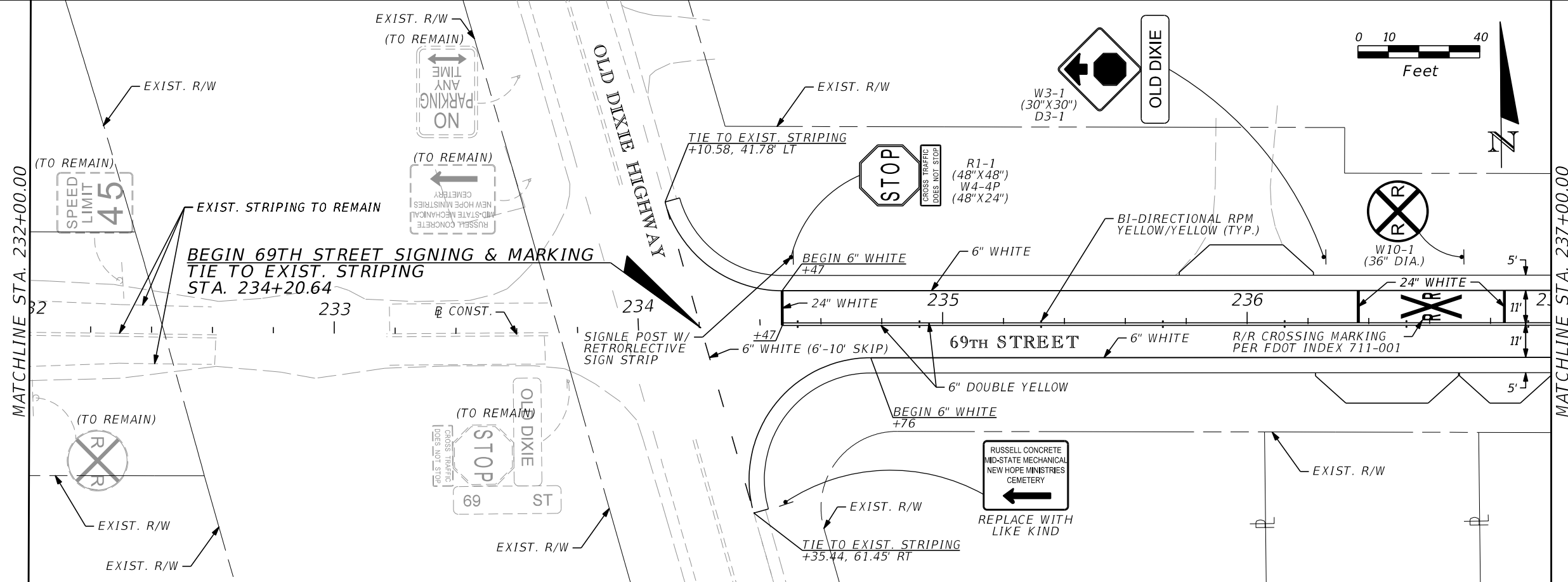
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INDIAN RIVER COUNTY
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 69TH STREET FROM 66TH AVENUE
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SHEET NO.
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1. SITE DESCRIPTION

A. CONSTRUCTION ACTIVITY: RESURFACING 69TH STREET FROM 66TH AVENUE TO SR5/US1.

B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES: SOIL DISTURBING ACTIVITIES WILL TAKE PLACE DURING MUCH OF THE ANTICIPATED CONSTRUCTION PERIOD OF THIS PROJECT. THE FOLLOWING SOIL DISTURBING ACTIVITIES ARE LISTED IN THE APPROXIMATE ORDER IN WHICH THEY ARE ANTICIPATED TO OCCUR.

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE(S)
2. CLEARING AND GRUBBING
3. STORMWATER MANAGEMENT FACILITY CONSTRUCTION
4. EXCAVATION OF SOILS
5. EMBANKMENT CONSTRUCTION
6. STABILIZATION AND TEMPORARY SODDING
7. ROADWAY GRADING AND CONSTRUCTION
8. FINAL GRADING AND SODDING

C. TOTAL PROJECT AREA: 14.0 AC
TOTAL AREA TO BE DISTURBED: 14.0 AC

D. RUNOFF DATA:

THE FOLLOWING IS A LIST OF THE DRAINAGE BASIN, THE AREA OF THE BASIN AND THE RUNOFF COEFFICIENT BEFORE, DURING, AND AFTER CONSTRUCTION.

BASIN	AREA (AC.)	BEFORE CONSTRUCTION	DURING CONSTRUCTION	AFTER CONSTRUCTION
1	14.0	0.51	0.54	0.58

E. SITE MAP: SEE KEY SHEET

F. RECEIVING WATERS: INDIAN RIVER LAGOON

2. CONTROLS

A. EROSION AND SEDIMENT CONTROLS: THE SOIL EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED BY THE CONTRACTOR TO MINIMIZE THE AMOUNT OF SOIL DISTURBED, PREVENT OFFSITE RUNOFF FROM DISCHARGING ACROSS DISTURBED AREAS, AND REMOVE ON-SITE SEDIMENT PRIOR TO DISCHARGE OF RUNOFF FROM THE SITE.

ALL ITEMS REPRESENTED IN THE FOLLOWING DISCUSSION ARE TREATED IN DETAIL IN THE "FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION OR WILL BE IMPLEMENTED BY THE ENGINEER IN A MANNER APPROPRIATE TO ENVIRONMENTALLY SENSITIVE CONSTRUCTION PRACTICES. THE CONTRACTOR WILL GENERATE SITE SPECIFIC EROSION CONTROL PLAN INCLUDING AN IMPLEMENTATION SCHEDULE FOR EACH PHASE OF CONSTRUCTION OPERATIONS OR ACTIVITIES. THE CONTRACTOR WILL ALSO BE REQUIRED TO MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS AND SUPPLY CONTRACT TIME SCHEDULES FOR THE IMPLEMENTATION OF EACH SUBUNIT.

(A) STABILIZATION PRACTICES: DURING CONSTRUCTION THE CONTRACTOR WILL PROVIDE TEMPORARY SEEDING FOR AREAS WHICH HAVE BEEN CLEARED AND NOT REWORKED WITHIN 14 CALENDAR DAYS. THE ENTIRE CLEARED AND UNPAVED PORTION OF THE PROJECT WILL BE SODDED OR MULCHED AND SEEDED UPON COMPLETION. BARE SOIL AREAS WILL BE KEPT TO A MINIMUM. STABILIZATION PRACTICES WILL INCLUDE:

- PERMANENT SODDING
- LIMITING STEEP SLOPES
- MINIMIZING THE AREA OF DISTURBED SOILS AT ANY GIVEN TIME
- PRESERVATION OF NATURAL VEGETATION
- SOIL RETAINING MEASURES
- DUST CONTROL

(B) STRUCTURAL PRACTICES WILL INCLUDE:

- STAKED SILT FENCES (LF)
- SYNTHETIC BALES (LF)
- STAKED TURBIDITY BARRIER (LF)
- ROCK BAGS (EA)
- RETENTION/DETENTION PONDS
- STORM DRAIN INLET PROTECTION

(C) PHASING OF CONTROLS

PHASE I - INSTALLATION OF ENVIRONMENTAL CONTROL FEATURES

A. ENVIRONMENTAL CONTROL FEATURES AS PROVIDED IN PLANS QUANTITIES ARE TO BE INSTALLED THROUGHOUT THE CLEARING AND GRUBBING LIMITS OF ENVIRONMENTALLY SENSITIVE AREAS AS SHOWN IN PLANS (PRIOR TO CLEARING AND GRUBBING).

B. THE CONTRACTOR WILL BE REQUIRED TO PREPARE A SITE SPECIFIC EROSION CONTROL PLAN ALONG WITH A SPECIFIC CONSTRUCTION SCHEDULE FOR IMPLEMENTATION. THE CONTRACTOR WILL ALSO BE REQUIRED TO MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS.

PHASE II - CLEARING AND GRUBBING

CLEARING AND GRUBBING SHALL BE DONE AS INDICATED ON THE TYPICAL SECTIONS OR AS NOTED IN THE PLANS.

PHASE III - EXCAVATION OF MUCK SOILS AND EMBANKMENT AND SURCHARGE CONSTRUCTION

ENVIRONMENTAL CONTROLS INCLUDING SYNTHETIC BALES, SILT FENCES, SEDIMENTATION BASINS AND OTHER CONTROLS, AS APPROPRIATE, SHALL BE IN PLACE PRIOR TO THE INITIATION OF EMBANKMENT AND SURCHARGE AREA CONSTRUCTION.

PHASE IV - DRAINAGE SYSTEM OR ENVIRONMENTAL CONTROL FEATURES


A. ENVIRONMENTAL CONTROL FEATURES AS PROVIDED IN PLANS QUANTITIES ARE TO BE INSTALLED IN ALL AREAS OF EXCAVATION OR FILL FOR DRAINAGE SYSTEM OR STRUCTURE CONSTRUCTION PRIOR TO SUCH EXCAVATION OR FILL. ALL STREAMS OR DITCHES ARE TO BE PROTECTED FROM EROSION OR SILTATION BY THE METHODS DETAILED IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). INLET ENTRANCES ARE ALSO TO BE PROTECTED FROM SILTATION AS DETAILED IN THE SWPPP. THESE INCLUDE STAKED SYNTHETIC BALES, SEDIMENT BASINS, TURBIDITY BARRIERS, SILT FENCE BARRIERS AND OTHERS, AS APPROPRIATE.

B. THE CONTRACTOR WILL BE RESPONSIBLE FOR MONITORING ANY ACTIVITIES FOR VIOLATION OF WATER QUALITY STANDARDS AS THEY RELATE TO TURBIDITY (29 NTU'S ABOVE BACKGROUND). TESTING WILL TAKE PLACE TO SUBSTANTIATE THE INTENT OF THE PROJECT PERMITS THROUGHOUT THE DURATION OF THE PROJECT. IF THE WATER QUALITY STANDARD IS VIOLATED, SEDIMENT AND EROSION CONTROL MEASURES WILL BE REEVALUATED AND RE-INSTALLED AS DIRECTED BY THE ENGINEER.

PHASE V - PERMANENT ENVIRONMENTAL CONTROLS

TEMPORARY ENVIRONMENTAL CONTROLS WILL BE REMOVED AFTER NEW ROADWAYS HAVE BEEN OPENED, AND PERMANENT EROSION, SEDIMENT AND STORM WATER CONTROL ARE IN PLACE AND FUNCTIONING. FINAL CLEAN UP WILL TAKE PLACE AND ANY TEMPORARY SURFACE WATER DIVERSIONS OR CONTROL FEATURES WILL BE CONNECTED TO THE PERMITTED STORMWATER MANAGEMENT SYSTEM.

B. STORMWATER MANAGEMENT: STORMWATER MANAGEMENT WILL BE VIA THE PERMITTED STORMWATER MANAGEMENT SYSTEM.

REVISIONS						 BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 69TH STREET FROM 66TH AVENUE TO SR5/US-1, RESURFACING		EROSION CONTROL GENERAL NOTES		SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION						122
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C. OTHER CONTROLS

A) WASTE DISPOSAL: THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION ACTIVITIES. ALL FERTILIZER, HYDROCARBON, OR OTHER CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO EPA'S STANDARD

B) OFF-SITE VEHICLE TRACKING: WILL BE CONTROLLED BY THE FOLLOWING METHODS:

- HAUL ROADS DAMPENED FOR DUST CONTROL
- LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN
- EXCESS DIRT ON ROADS TO BE REMOVED DAILY
- SOIL TRACKING PREVENTION DEVICE TYPE A PER FDOT STANDARDS

C) SANITARY WASTE: ANY FIELD OFFICES WILL HAVE PORTABLE TOILET FACILITIES OR THE CONTRACTOR WILL OBTAIN PERMITS FOR SEWAGE TREATMENT IN ACCORDANCE WITH 10D-6 F.A.C. "STANDARDS FOR ON-SITE SEWAGE DISPOSAL SYSTEMS".

D) FERTILIZERS AND PESTICIDES: FERTILIZERS WILL BE USED ON THIS PROJECT IN ACCORDANCE WITH "FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" SECTION 982. TO AVOID NUTRIENT LOADING TO SURFACE WATERS, FERTILIZERS USED ON THIS PROJECT WILL NOT BE APPLIED WITHIN FIFTY (50) FEET OF ANY SURFACE WATERS WITHIN THE PROJECT LIMITS.

D. PERMITS

THE FOLLOWING PERMITS HAVE BEEN OBTAIN FOR THE PROJECT:

- SJRWMD ENVIRONMENTAL RESOURCE PERMIT
- IRFWCD CONNECTION PERMIT

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE FOLLOWING PERMITS:

- FDEP - NPDES PERMIT
- SJRWMD - TEMPORARY DEWATERING PERMIT (IF NEEDED)

ADDITIONAL PERMIT FEES ARE TO BE INCLUDED IN THE COST OF MOBILIZATION 101-1

3. MAINTENANCE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES THROUGHOUT THE CONSTRUCTION PHASE OF THE PROJECT. MAINTENANCE SHALL BE CONDUCTED IN ACCORDANCE WITH "FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" SECTION 104 AND "FDOT STANDARD PLANS FY 2018-19."

THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE AND REPAIRS OF EROSION AND SEDIMENT CONTROL DEVICES, AND REMOVAL OF EROSION AND SEDIMENT CONTROL DEVICES UNTIL ACCEPTANCE OF THE COMPLETED PROJECT BY FDOT.

MAINTENANCE AND REPAIR REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION SHALL BE INCLUDED IN THE COST OF PAY ITEM 104-2.

THE FOLLOWING PRACTICES WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS:

GENERAL:

THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD WEEKLY RAINFALL IN ACCORDANCE WITH NPDES PERMIT NO. FLR 100000. ALL CONTROL MEASURES WILL BE MAINTAINED BY THE CONTRACTOR.

ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.

STRUCTURAL PRACTICES CONTROLS:

BUILT-UP SEDIMENT WILL BE REMOVED FROM SILT FENCE AND STOKED TURBIDITY BARRIERS NOT LATER THAN WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.

TEMPORARY AND PERMANENT SEEDING, SODDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

SOIL TRACKING PREVENTION DEVICE, TYPE A SHALL BE MAINTAINED TO PREVENT CLOGGING OF ROCK BEDDING WHICH MAY IMPEDE THE USEFULNESS OF THE STRUCTURE.

FLOATING TURBIDITY BARRIER WILL BE MAINTAINED WITH RESPECT TO DEPTH OF SEDIMENT AND ENSURE THAT THE FABRIC IS ATTACHED SECURELY TO THE FLOATS AND ANCHORED PROPERLY AT THE BOTTOM FOR PROPER SEDIMENT CONTROL.

4. INSPECTION

ALL EROSION AND WATER POLLUTION ABATEMENT AND CONTROL MEASURES WILL BE INSPECTED DAILY BY THE CONTRACTOR.

INSPECTIONS ARE TO BE PERFORMED BY QUALIFIED PERSONNEL WHO HAVE COMPLETED THE FLORIDA STORM WATER, EROSION AND SEDIMENT CONTROL TRAINING AND CERTIFICATION PROGRAM FOR INSPECTORS AND CONTRACTORS WHO HAVE PASSED THE EXAMINATION.

INSPECTION AREAS: LOCATIONS OR AREAS TO BE INSPECTED INCLUDE BUT ARE NOT LIMITED TO:

- DISCHARGE POINTS TO WATERS OF THE UNITED STATES
- DISCHARGE POINTS TO MS4 FACILITIES
- AREAS NOT MEETING THE "FINAL STABILIZATION" CRITERIA
- MATERIALS STORAGE/STOCKPILES
- SEDIMENTATION FACILITIES
- STRUCTURAL FACILITIES
- VEHICLE ENTRANCES/EXITS
- ON-SITE STORMWATER MANAGEMENT SYSTEMS

THE CONTRACTOR SHALL USE THE CONSTRUCTION INSPECTION REPORT FORM 650-040-03 FOR DAILY INSPECTIONS.

THE CONTRACTOR'S DAILY INSPECTIONS REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION SHALL BE INCLUDED IN THE COST OF PAY ITEM 104-2.

TRACKING AND REPORTING

THE CONTRACTOR IS RESPONSIBLE FOR COMPLETING THE INSPECTION REPORT FORM 650-040-03 EVERY 7 DAYS AND AFTER ANY 0.50 INCH (OR MORE) RAINFALL EVENT. A COPY OF THE INSPECTION REPORT SHALL BE SUBMITTED TO THE ENGINEER WEEKLY.

THE COUNTY SHALL MAINTAIN ALL RECORDS SUBMITTED BY THE CONTRACTOR.

PREPARATION OF THE CONTRACTOR'S WEEKLY REPORTS OF INSPECTIONS, MAINTENANCE AND REPAIRS REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION SHALL BE INCLUDED IN THE COST OF PAY ITEM 104-2.

5. NON-STORM WATER DISCHARGE AND HAZARDOUS WASTE


THE CONTRACTOR WILL PROVIDE INDIAN RIVER COUNTY WITH AN EROSION CONTROL PLAN THAT INCORPORATES THE CONSTRUCTION SCHEDULE AND WILL INCLUDE SPILL REPORTING AND RESPONSE. WHEN THE CONTRACTOR ENCOUNTERS A SPILL, CONSTRUCTION WILL STOP WORK AND WORK WILL NOT RESUME UNTIL DIRECTED BY THE ENGINEER. DISPOSITION OF HAZARDOUS WASTE WILL BE MADE IN ACCORDANCE WITH ANY REQUIREMENTS AND REGULATIONS OF ANY LOCAL, STATE OR FEDERAL AGENCY HAVING JURISDICTION.

6. REFERENCES

THE CONSTRUCTION PLANS AND SPECIFICATIONS FOR 69TH STREET FROM 66TH AVENUE TO SR5/US1, RESURFACING IS HEREBY REFERENCED AND MADE PART OF THIS STORMWATER POLLUTION PREVENTION PLAN.

7. QUANTITIES

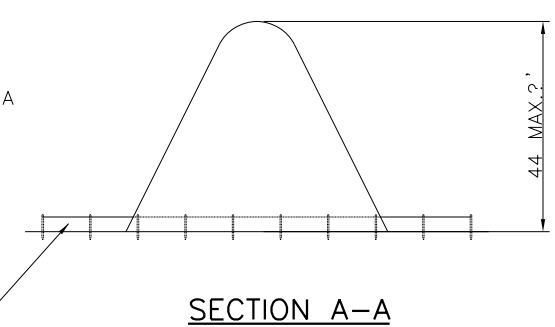
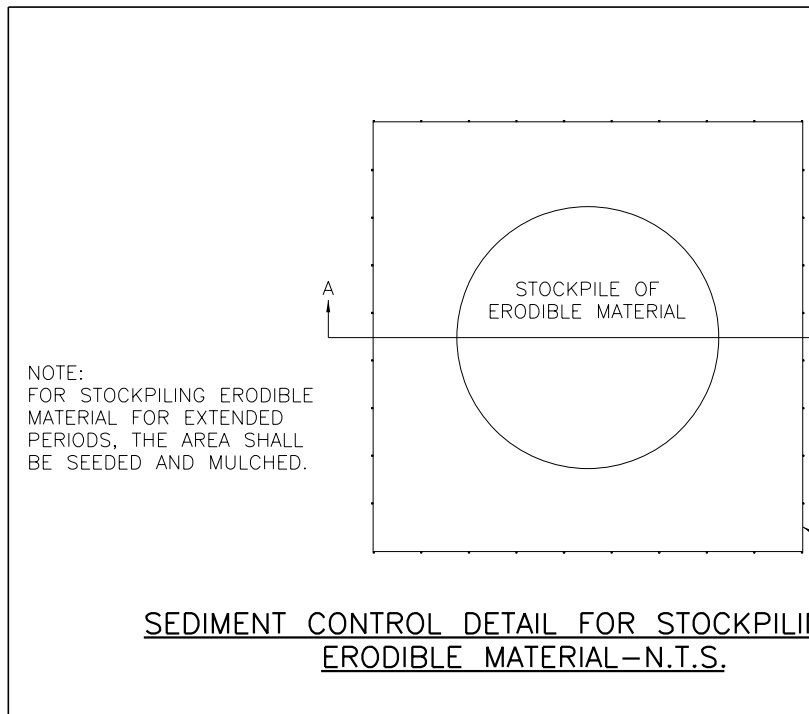
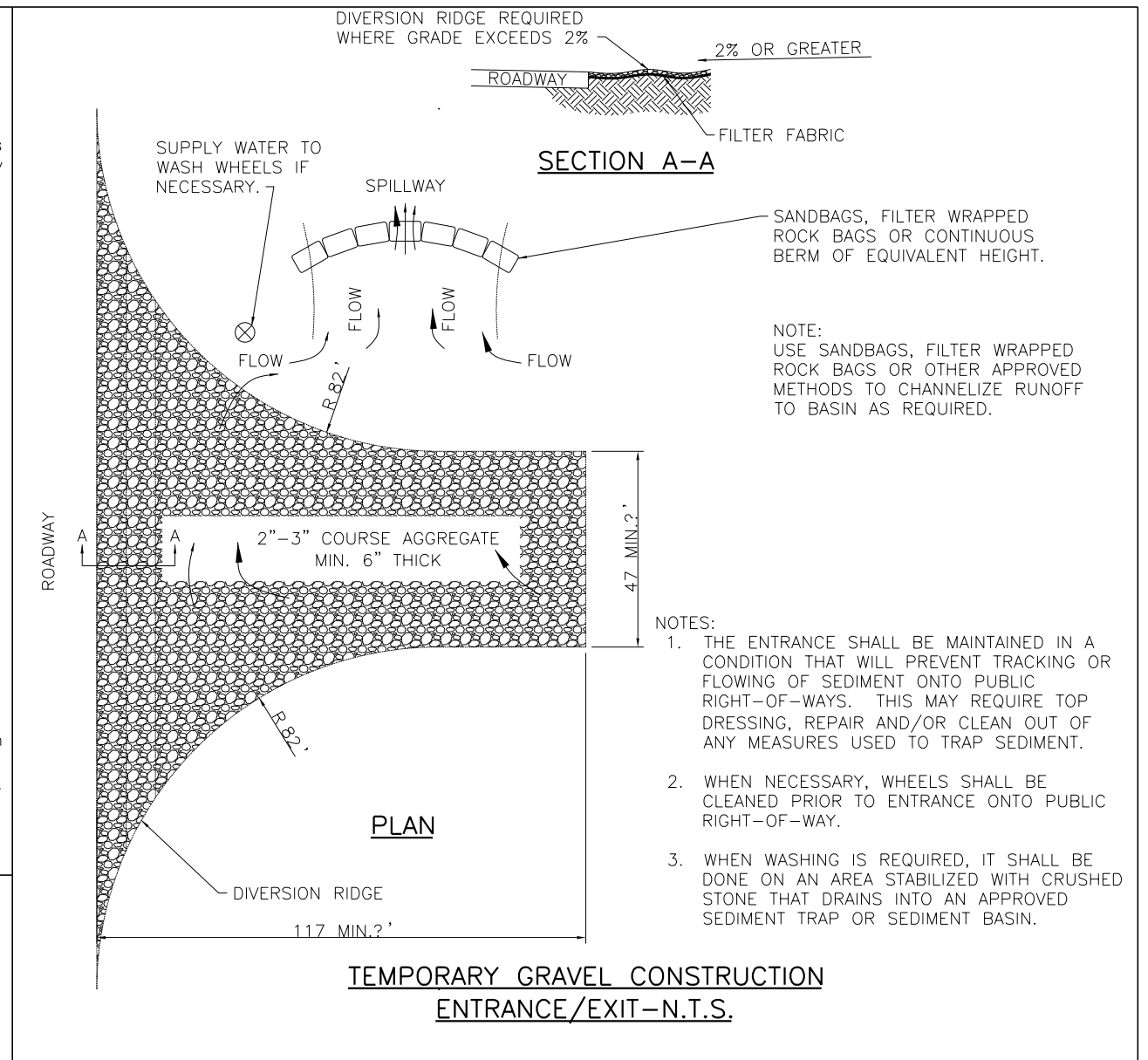
SEE CONSTRUCTION PLANS SUMMARY OF QUANTITIES SHEETS FOR EROSION CONTROL QUANTITY TABULATION.

REVISIONS						 BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 69TH STREET FROM 66TH AVENUE TO SR5/US-1, RESURFACING	EROSION CONTROL GENERAL NOTES	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				123

EROSION CONTROL NOTES

- Sediment basins and traps, perimeter dikes, sediment barriers and other measures intended to trap sediment shall be constructed as a first step in any land disturbing activity and shall be made functional before up-slope land disturbance takes place.
- All sediment control measures are to be adjusted to meet field conditions at the time of construction and be constructed prior to any grading or disturbance of existing surface material on balance of site. Perimeter sediment barriers shall be constructed to prevent sediment or trash from flowing or floating on to adjacent properties.
- Permanent or temporary soil stabilization shall be applied to denuded areas within seven (7) days after final grade is reached on any portion of the site. Temporary soil stabilization shall be applied within seven (7) days to denuded areas that may not be at final grade but will remain undisturbed for longer than 30 days. Permanent stabilization shall be applied to areas that are to be left undisturbed for more than one year.
- During construction of the project, soil stock piles shall be stabilized, covered or contained with sediment trapping measures. The applicant is responsible for the temporary protection and permanent stabilization of all soil stockpiles on site as well as soil intentionally transported from the project site.
- A permanent vegetative cover shall be established on denuded areas not otherwise permanently stabilized.
- After any significant rainfall, sediment control structures will be inspected for integrity. Any damaged devices shall be corrected immediately.
- Concentrated runoff shall not flow down cut or fill slopes unless contained within an adequate temporary or permanent channel, flume, slope drain structure or approved control.
- Sediment will be prevented from entering any storm water system, ditch or channel. All storm water inlets that are made operable during construction shall be protected so that sediment-laden water cannot enter the conveyance system without first being filtered or otherwise treated to remove sediment.
- When work in a live watercourse is performed, precautions shall be taken to minimize encroachment, control sediment transport and stabilize the work area to the greatest extent possible during construction.
- Periodic inspection and maintenance of all sediment control structures must be provided to ensure intended purpose is accomplished. The developer, owner and/or contractor shall be continually responsible for all sediment controls. Sediment control measures shall be in working condition at the end of each working day.
- Where construction vehicle access routes intersect paved public roads, provisions shall be made to minimize the transport of sediment by tracking onto the paved surface. Where sediment is transported onto a public road surface with curbs and gutters, the road shall be cleaned thoroughly at the end of each day. Sediment shall be removed from the roads by shoveling or sweeping and transported to a sediment control disposal area. Street washing shall be allowed only after sediment is removed in this manner. This provision shall apply to individual subdivision lots as well as to larger land disturbing activities.
- All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization or after the temporary measures are no longer needed.
- Properties and waterways downstream from construction sites shall be protected from sediment deposition and erosion at all times during construction.

- Erosion control design and construction shall follow the applicable requirements of the "State of Florida Erosion and Sediment Control Designer and Reviewer Manual", Latest Update: July 2013", or current edition and as may be modified by the Project Engineer of Record via a signed and sealed drawing and as required by Indian River County permits and other regulatory agency permits.
- Contractor is responsible for all surface water discharges, rainfall run off or dewatering activities.
- Contractor must incorporate all BMP's necessary to meet or exceed state water quality and SWPPP requirements.
- The Pollution Prevention Plan is a minimum guideline only. Additional BMP's may be necessary at contractor's expense.
- NOI to be posted on site.
- Dewatering activities:
 - A - Discharge must not exceed state water quality standards.
 - B - Contractor must have a transferable SJRWMD Consumptive Use permit known as a "Noticed General Permit For Short Term Construction De-Watering".
 - C - No hydraulic pumps may be used for dewatering unless approved By the water management district for that area.
 - D - No turbid discharge. Turbidity readings are required once a week and must be reported to the project Engineer.
- Failure to develop and implement a certified stormwater pollution prevention plan shall be deemed a violation of the permit and the permittee shall be subject to enforcement action. The plan shall be completed prior to the submittal of an NOI (Notice of Intent) to be covered under the permit and updated as appropriate. The plan shall also provide for compliance with the terms and schedule of the plan beginning with the initiation of the construction activities.

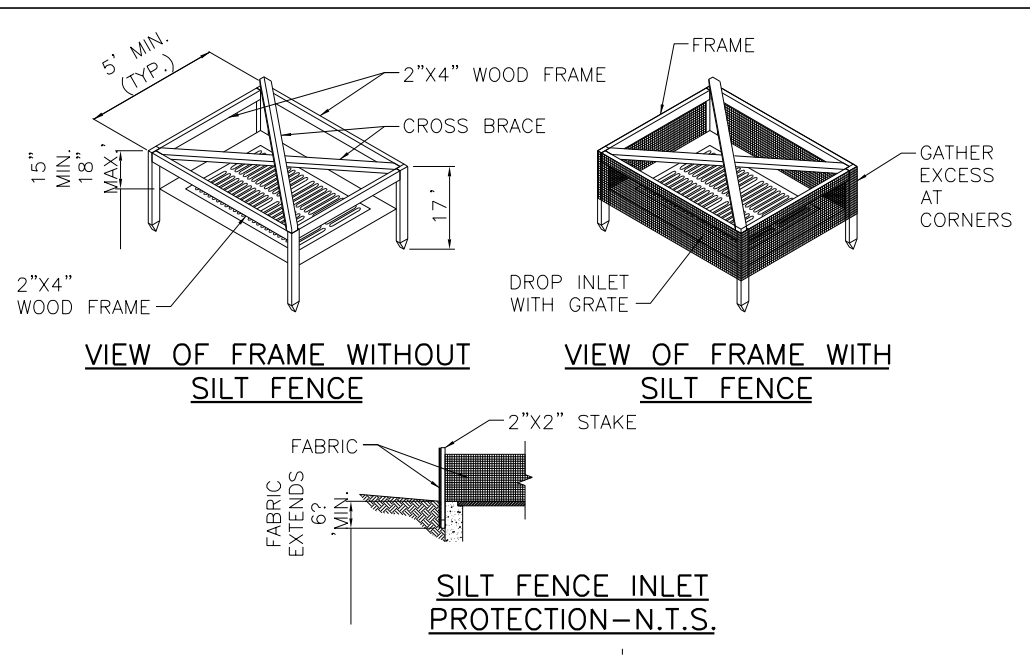


NOTE

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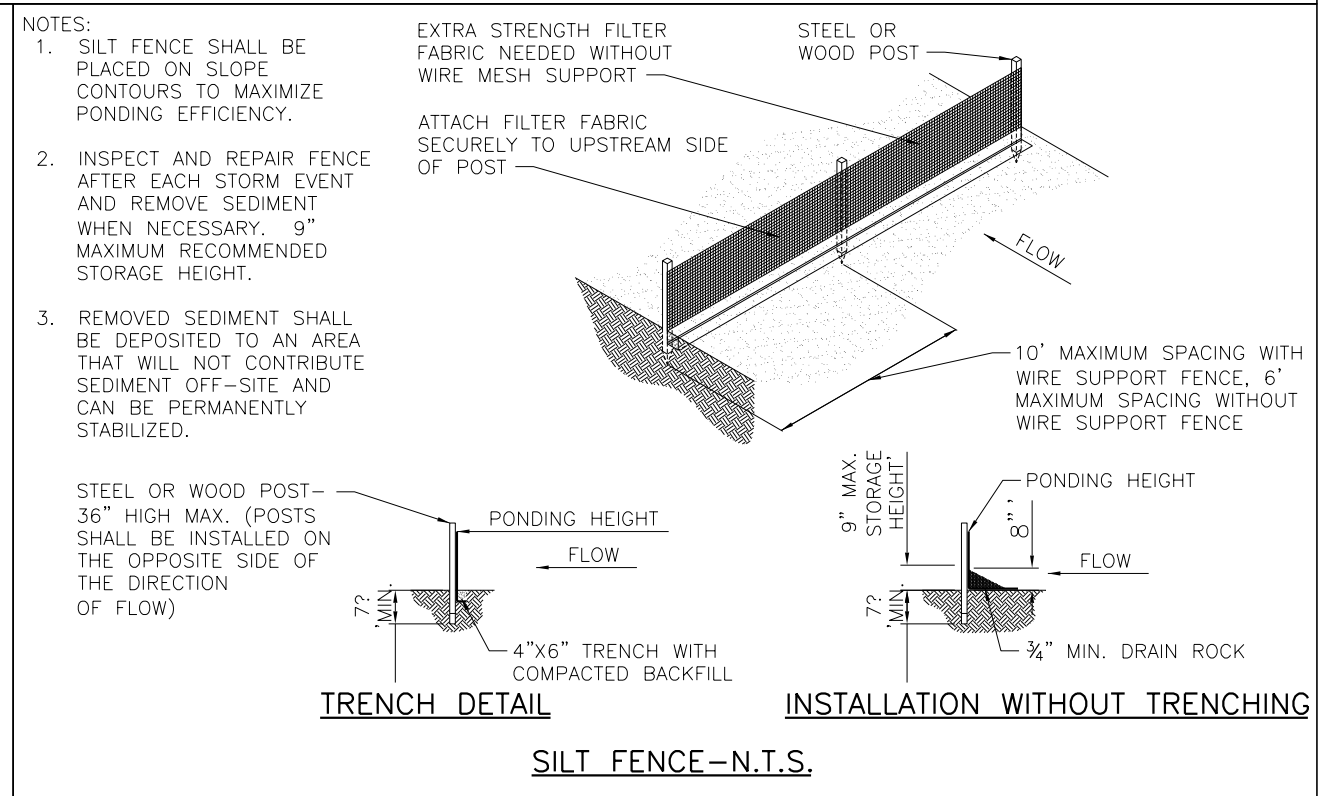
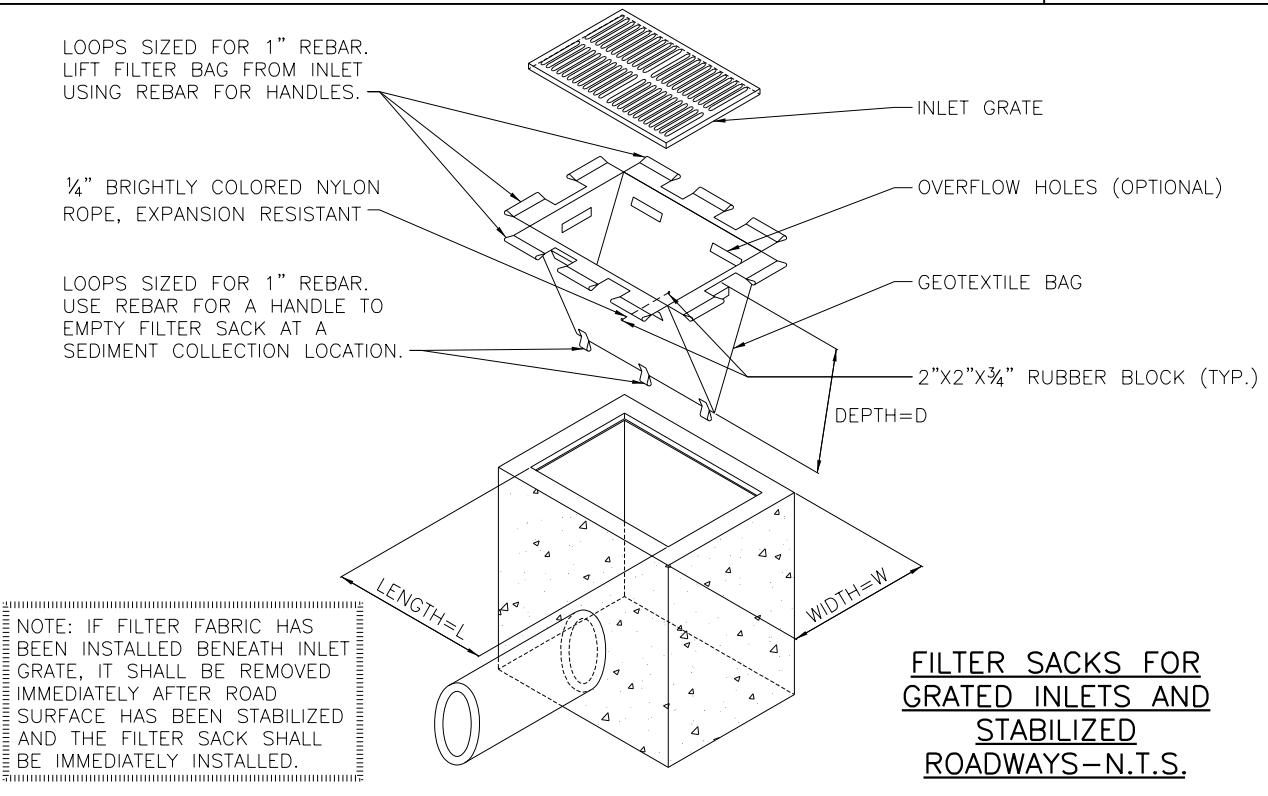
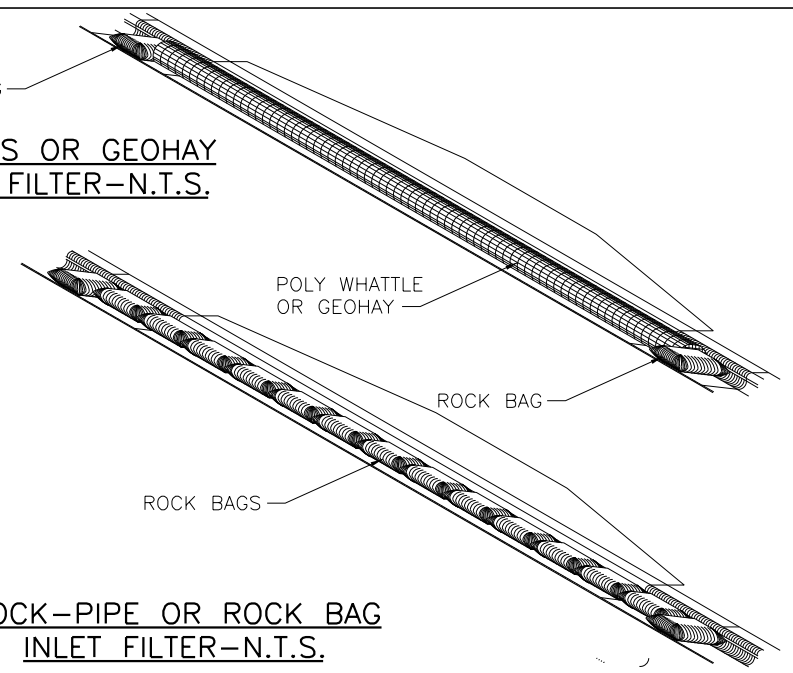
REVISIONS						Kimley»Horn BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 69TH STREET FROM 66TH AVENUE TO SR5/US-1, RESURFACING	INDIAN RIVER COUNTY EROSION CONTROL DETAILS	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				124
1/17/2022	Rebecca.Pastir								

1639 I.R.CO. Proj. No. THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



POLY WHATTLES OR GEOHAY CURB INLET FILTER-N.T.S.

LOW TO MODERATE FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS.
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	120 LBS.
MULLEN BURST	ASTM D-3786	800 P.S.I.
TRAPEZOID TEAR	ASTM D-4533	120 LBS.
UV RESISTANCE	ASTM D-4355	80%
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL./MIN./SQ. FT.
PERMITTIVITY	ASTM D-4491	0.55 SEC. -1
MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS.
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	135 LBS.
MULLEN BURST	ASTM D-3786	420 P.S.I.
TRAPEZOID TEAR	ASTM D-4533	45 LBS.
UV RESISTANCE	ASTM D-4355	90%
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL./MIN./SQ. FT.
PERMITTIVITY	ASTM D-4491	1.5 SEC. -1

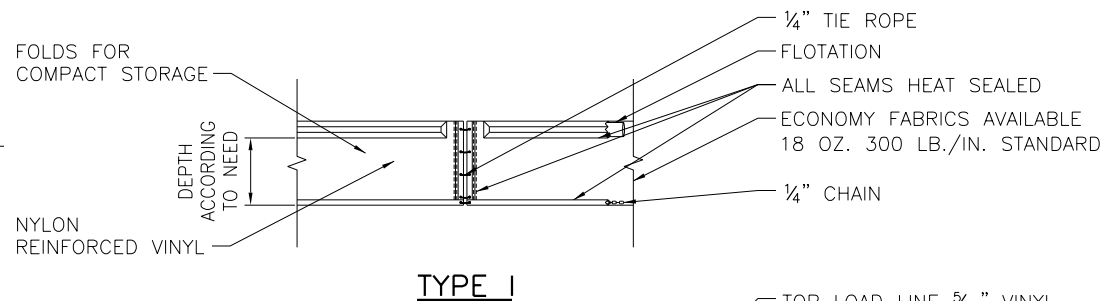


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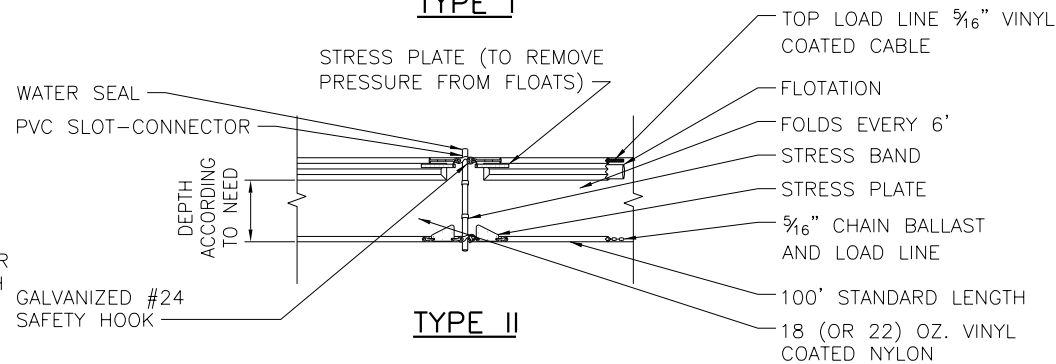
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REVISIONS						Kimley»Horn BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 69TH STREET FROM 66TH AVENUE TO SR5/US-1, RESURFACING	INDIAN RIVER COUNTY EROSION CONTROL DETAILS	SHEET NO. 125
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				

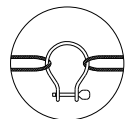
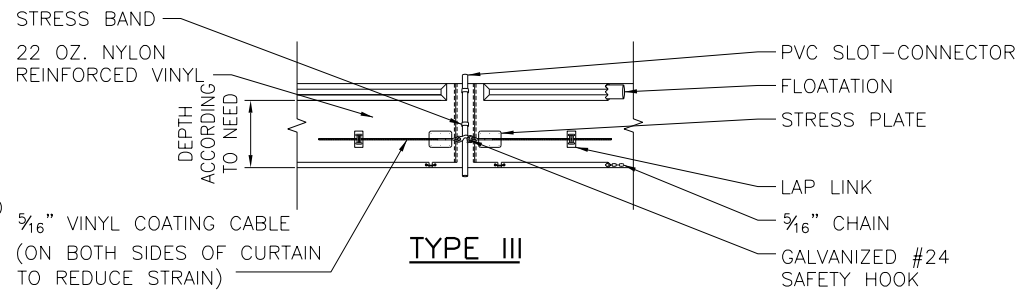
TYPE 1. DOT FOR WATERS WITH LOW CURRENTS (NO MORE THAN ONE FOOT PER SECOND) AND LIGHT WINDS: LAKES, PONDS, SMALL STREAMS, MARSHES. FLEXIBLE TOP FLOTATION SECTION WITH ENCAPSULATED EPS FOAM FLOTATION LOGS (6"x6"x4')



TYPE 2. DOT FOR HIGHER CURRENT WATERS (UP TO FIVE FEET PER SECOND): DEEPER LAKES, STREAMS, INTERCOASTAL AND TIDAL AREAS. INCLUDES AN ENCAPSULATED STEEL LOAD CABLE ALONG TOP OF BARRIER AND 8"x8"x4' FLOTATION LOGS. WEAR STRESS POINTS ARE REINFORCED WITH SHIELDS.



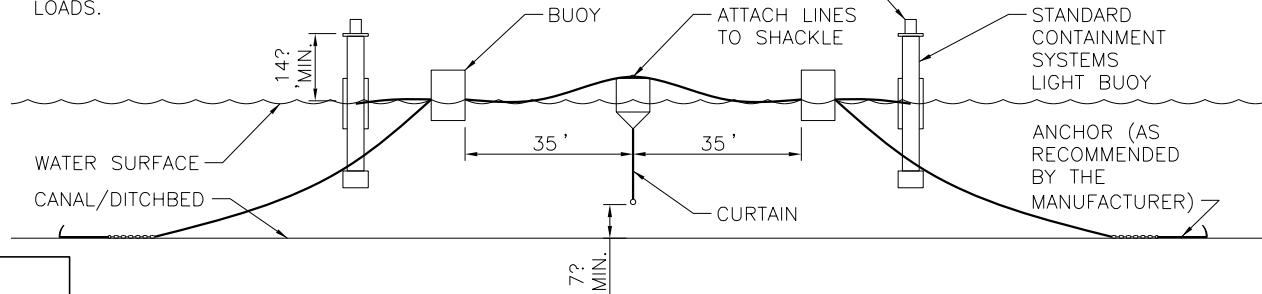
TYPE 3. DOT IS SIMILAR TO TYPE 2. DOT EXCEPT THAT POLYPROPYLENE FILTER FABRIC IS PERMANENTLY INSERTED INTO THE BARRIER SKIRT TO MEET SOME STATE'S SPECIFICATIONS.



BLOW-UP OF SHACKLE CONNECTION

NOTE: ANCHORING TO BUOYS AS SHOWN REMOVES ALL VERTICAL FORCES FROM THE CURTAIN, HENCE, THE CURTAIN WILL NOT SINK FROM WIND OR CURRENT LOADS.

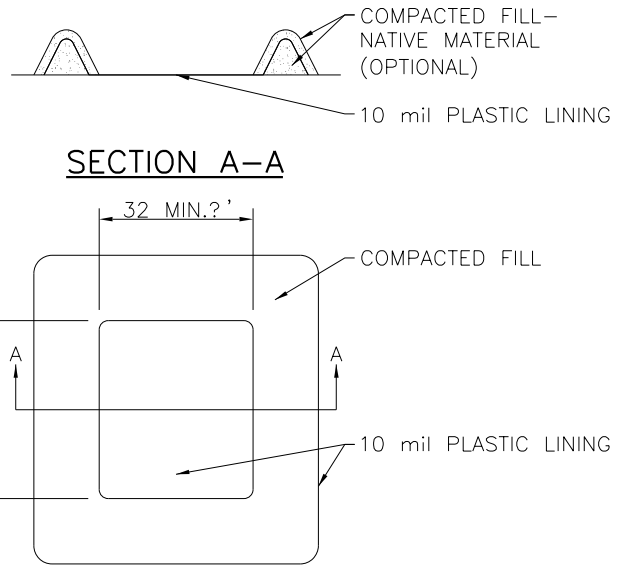
AUTOMATIC FLASHING LIGHT (ON AT DUSK-OFF AT DAWN) 100' ON CENTER SHALL BE USED IN NAVIGABLE CHANNELS ONLY



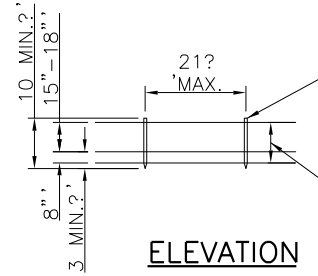
ORIENTATION WHEN INSTALLED (TIDAL SITUATION-TYPE III)-N.T.S.

NOTE
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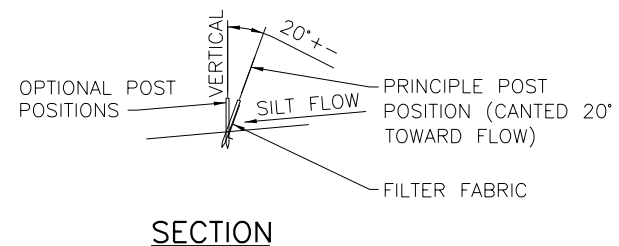
- NOTES:
 1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
 2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
 3. A ROLL OFF CONTAINER SPECIFICALLY MANUFACTURED FOR CONCRETE AND STUCCO WASHOUT MAY BE SUBSTITUTED.



CONCRETE & STUCCO WASTE MANAGEMENT-N.T.S.

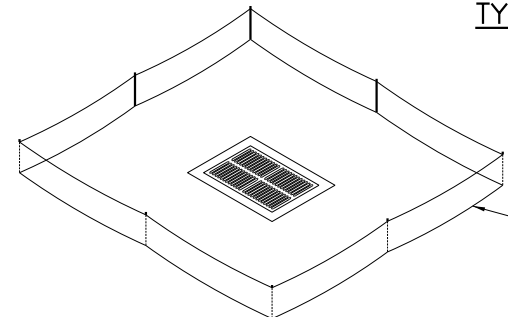


POST OPTIONS:
 WOOD 2-1/2" MIN. DIA.
 WOOD 2"x4"
 OAK 1-1/2"x1-1/2"
 STEEL 1.33 LBS./FT. MIN.
 FILTER FABRIC (IN CONFORMANCE WITH SEC. 985 F.D.O.T. SPEC.)



NOTES: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (L.F.)

TYPE III SILT FENCE



NOTE: SPACING FOR TYPE III FENCE TO BE IN ACCORDANCE WITH CHART 1, SHEET 1 OF 3 AND DITCH INSTALLATIONS AT DRAINAGE STRUCTURES SHEET 2 OF 3

DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

SILT FENCE APPLICATIONS-N.T.S.

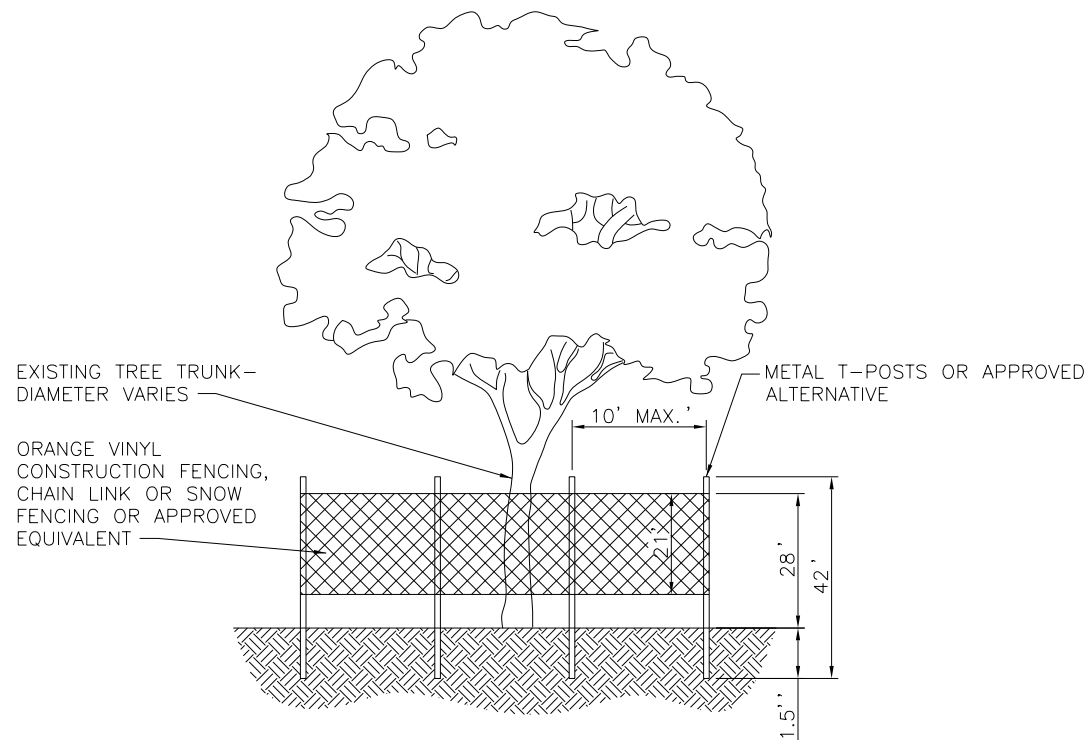
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 BRIAN A. GOOD, P.E.
 P.E. LICENSE NUMBER 56939
 445 24th STREET, SUITE 200
 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

INDIAN RIVER COUNTY EROSION CONTROL DETAILS

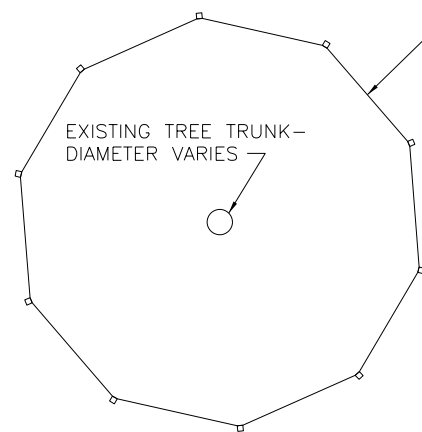
SHEET NO.	126
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NOTES:

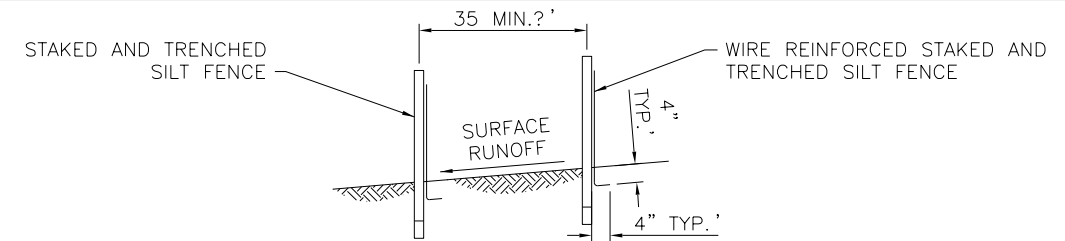
1. ALL TREES RETAINED ON A SITE SHALL BE PROTECTIVELY BARRICADED BEFORE AND DURING CONSTRUCTION ACTIVITIES.
2. UNDERGROUND UTILITY LINES SHALL BE ROUTED AROUND EXISTING TREES TO THE OUTSIDE OF THE DRIPLINE WHERE ABLE.
3. INSTALLATION OF FENCES AND WALLS SHALL TAKE INTO CONSIDERATION THE ROOT SYSTEMS OF EXISTING TREES.
4. FENCE/BARRICADE SHALL BE INSTALLED AT PERIMETER OF ALL TRESS OR GROUP OF TREES TO BE PRESERVED. FENCE SHALL BE MAINTAINED DURING CONSTRUCTION.
5. DO NOT PARK HEAVY EQUIPMENT ON TREE ROOTS. DO NOT ADD FILL 4" TO 6" AROUND TREE. ALL WORK WITHIN THE CRZ MUST BE DONE BY HAND.

ELEVATION

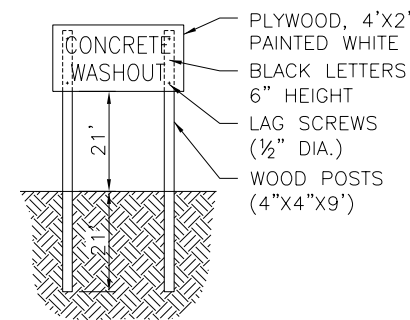


PLAN

PROTECTIVE FENCING FOR TREES-N.T.S.



DOUBLE ROW STAKED SILT FENCE FOR USE AROUND WETLANDS-N.T.S.



CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)

NOTE

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REVISIONS

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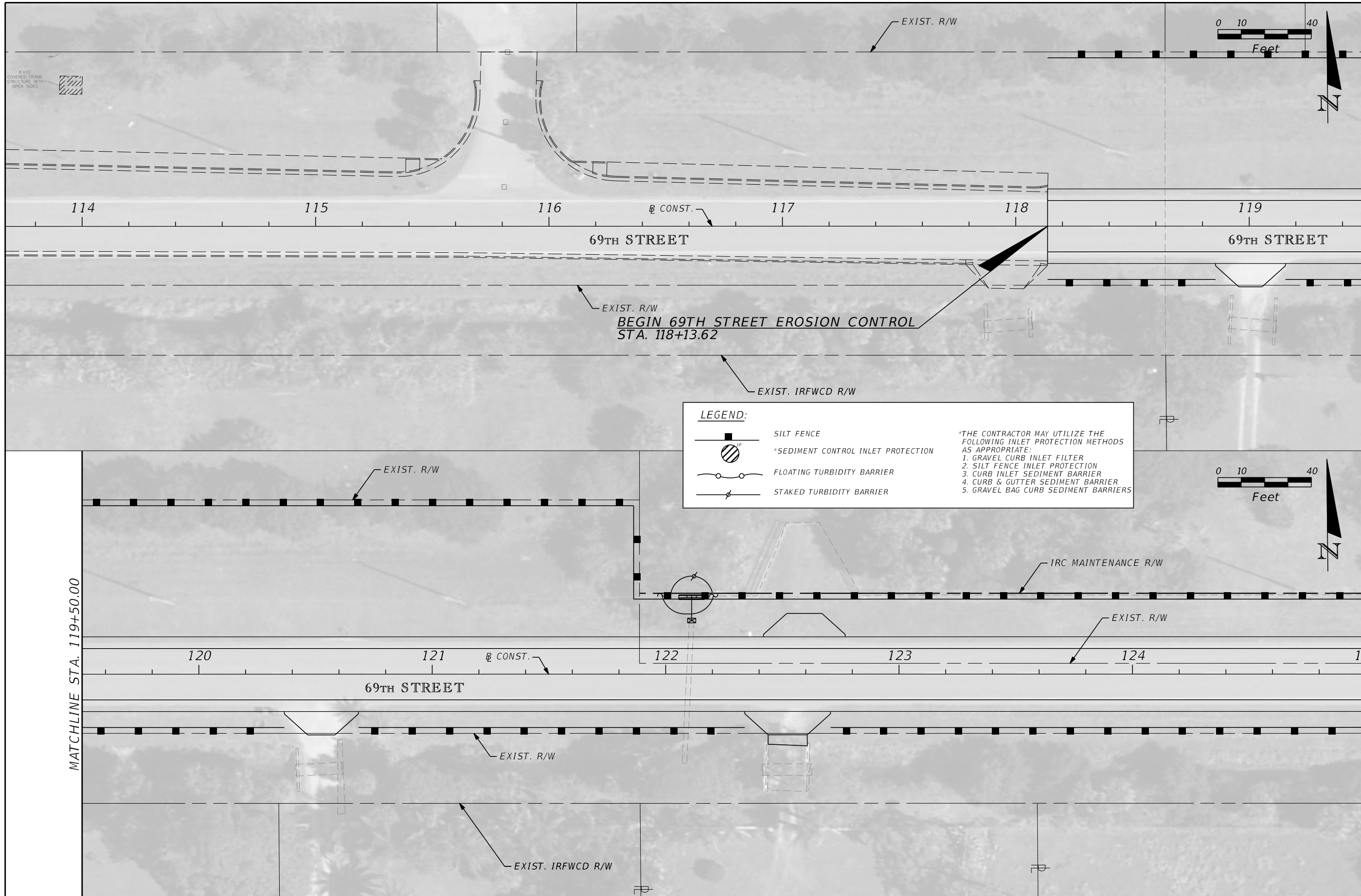
BRIAN A. GOOD, P.E.
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REGISTRY No. 696

**INDIAN RIVER COUNTY
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69TH STREET FROM 66TH AVENUE
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**INDIAN RIVER COUNTY
EROSION CONTROL DETAILS**

SHEET NO.

127



MATCHLINE STA. 119+50.00

MATCHLINE STA. 119+50.00

MATCHLINE STA. 125+00.00

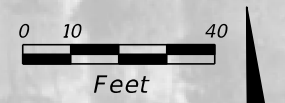
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
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EROSION CONTROL

SHEET NO.
128

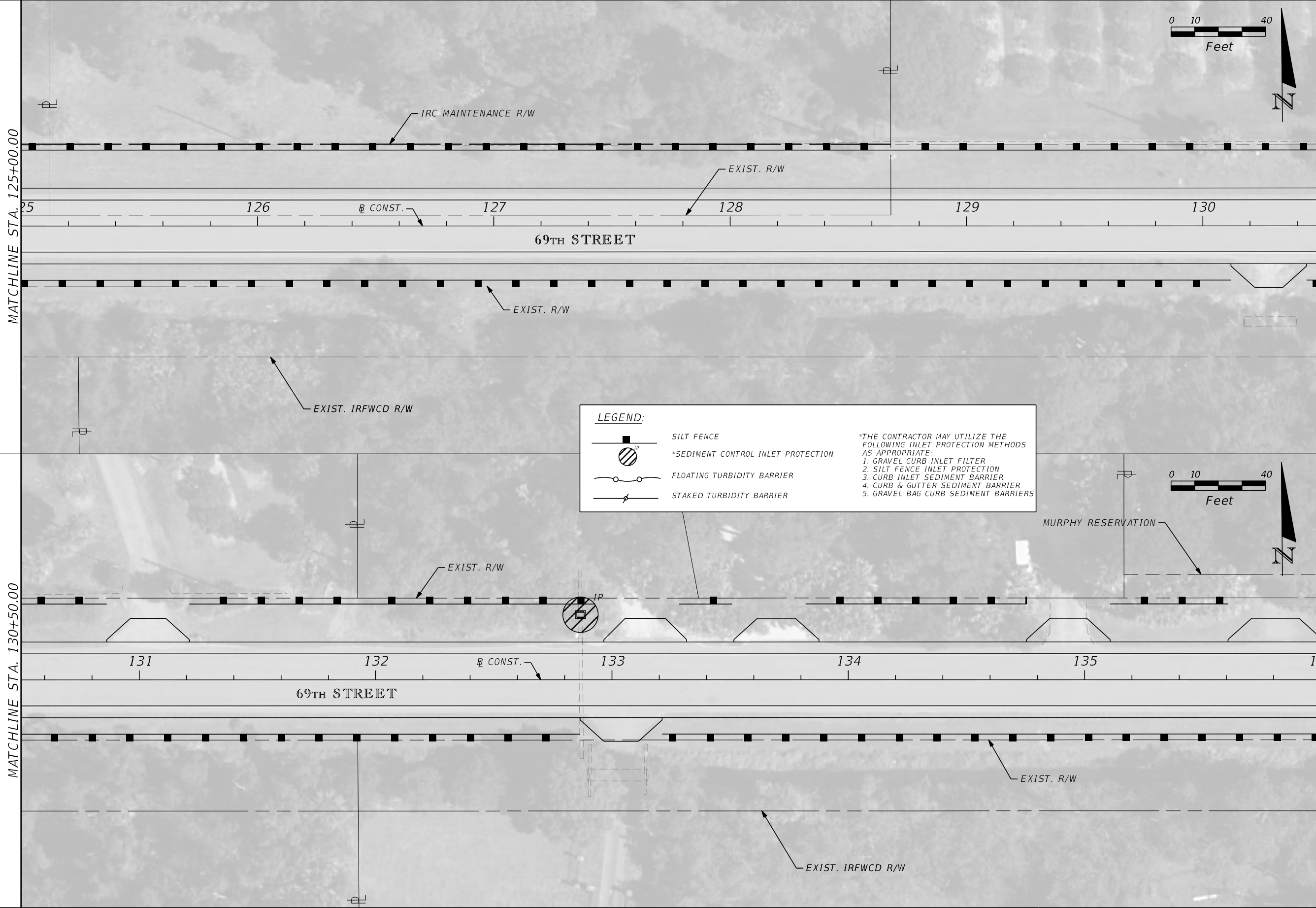


MATCHLINE STA. 125+00.00

MATCHLINE STA. 130+50.00

MATCHLINE STA. 130+50.00

MATCHLINE STA. 136+00.00



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SHEET NO.
129

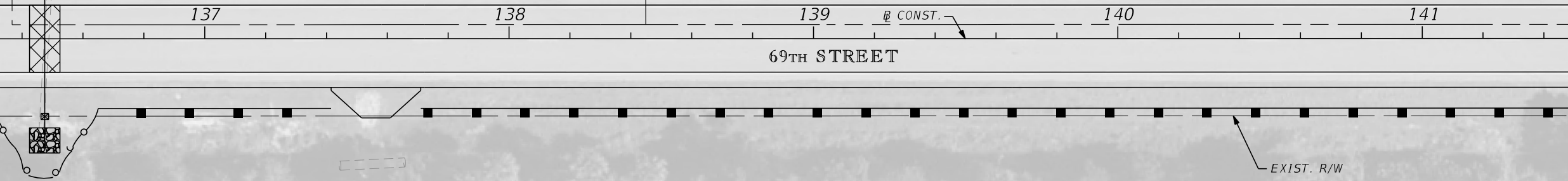
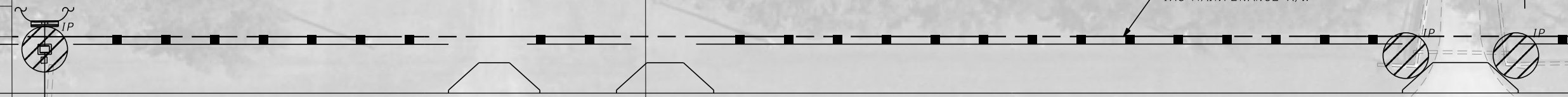
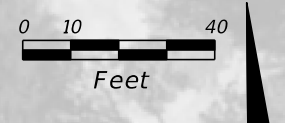
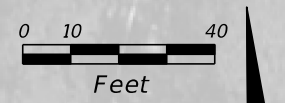
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MATCHLINE STA. 141+50.00

MATCHLINE STA. 141+50.00

MATCHLINE STA. 147+00.00

MURPHY RESERVATION

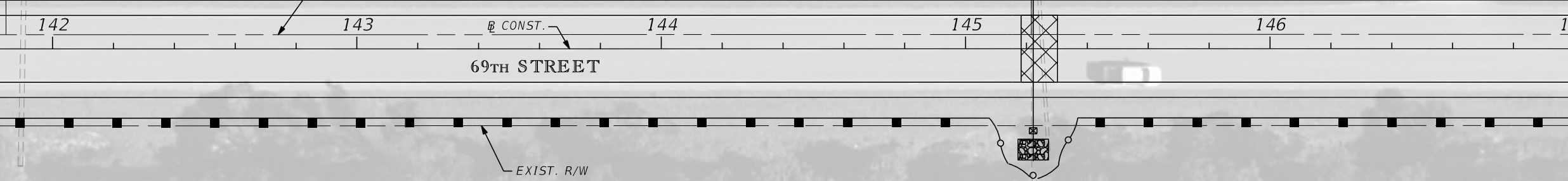
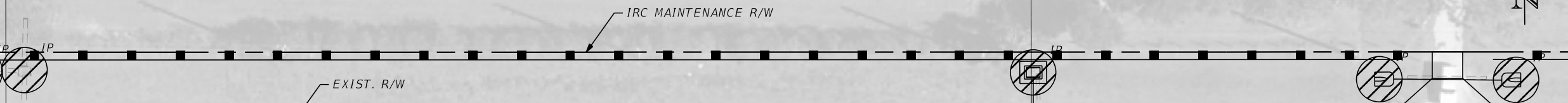


LEGEND:

- SILT FENCE
- *SEDIMENT CONTROL INLET PROTECTION
- FLOATING TURBIDITY BARRIER
- STAKED TURBIDITY BARRIER

*THE CONTRACTOR MAY UTILIZE THE FOLLOWING INLET PROTECTION METHODS AS APPROPRIATE:

1. GRAVEL CURB INLET FILTER
2. SILT FENCE INLET PROTECTION
3. CURB INLET SEDIMENT BARRIER
4. CURB & GUTTER SEDIMENT BARRIER
5. GRAVEL BAG CURB SEDIMENT BARRIERS



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

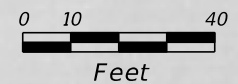
Kimley»Horn

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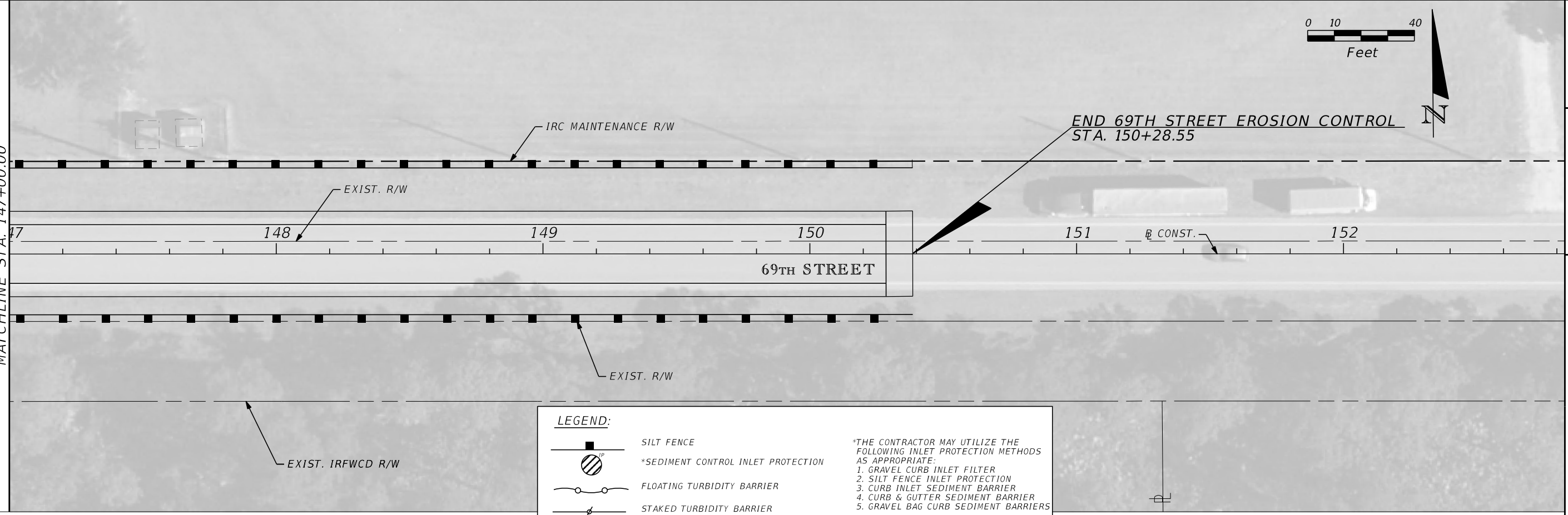
INDIAN RIVER COUNTY
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 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

EROSION CONTROL

SHEET NO.
 130



MATCHLINE STA. 147+00.00



LEGEND:

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- STAKED TURBIDITY BARRIER

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I.R.CO. Proj. No. 1639
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REVISIONS							INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 69TH STREET FROM 66TH AVENUE TO SR5/US-1, RESURFACING	EROSION CONTROL	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				131
						<small> BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696 </small>			



BEGIN 69TH STREET EROSION CONTROL
STA. 168+50.39

EXIST. R/W

168

169

170

171

172

69TH STREET

CONST.

EXIST. R/W

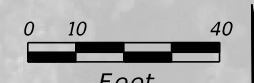
EXIST. IRFWCD R/W

LEGEND:

- SILT FENCE
- *SEDIMENT CONTROL INLET PROTECTION
- FLOATING TURBIDITY BARRIER
- STAKED TURBIDITY BARRIER

*THE CONTRACTOR MAY UTILIZE THE FOLLOWING INLET PROTECTION METHODS AS APPROPRIATE:

1. GRAVEL CURB INLET FILTER
2. SILT FENCE INLET PROTECTION
3. CURB INLET SEDIMENT BARRIER
4. CURB & GUTTER SEDIMENT BARRIER
5. GRAVEL BAG CURB SEDIMENT BARRIERS



EXIST. R/W

MATCHLINE STA. 173+00.00

173

174

175

176

177

178

69TH STREET

CONST.

EXIST. R/W

EXIST. IRFWCD R/W

MATCHLINE STA. 178+50.00

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

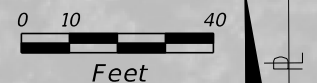
Kimley»Horn

BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 696

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
69TH STREET FROM 66TH AVENUE
TO SR5/US-1, RESURFACING

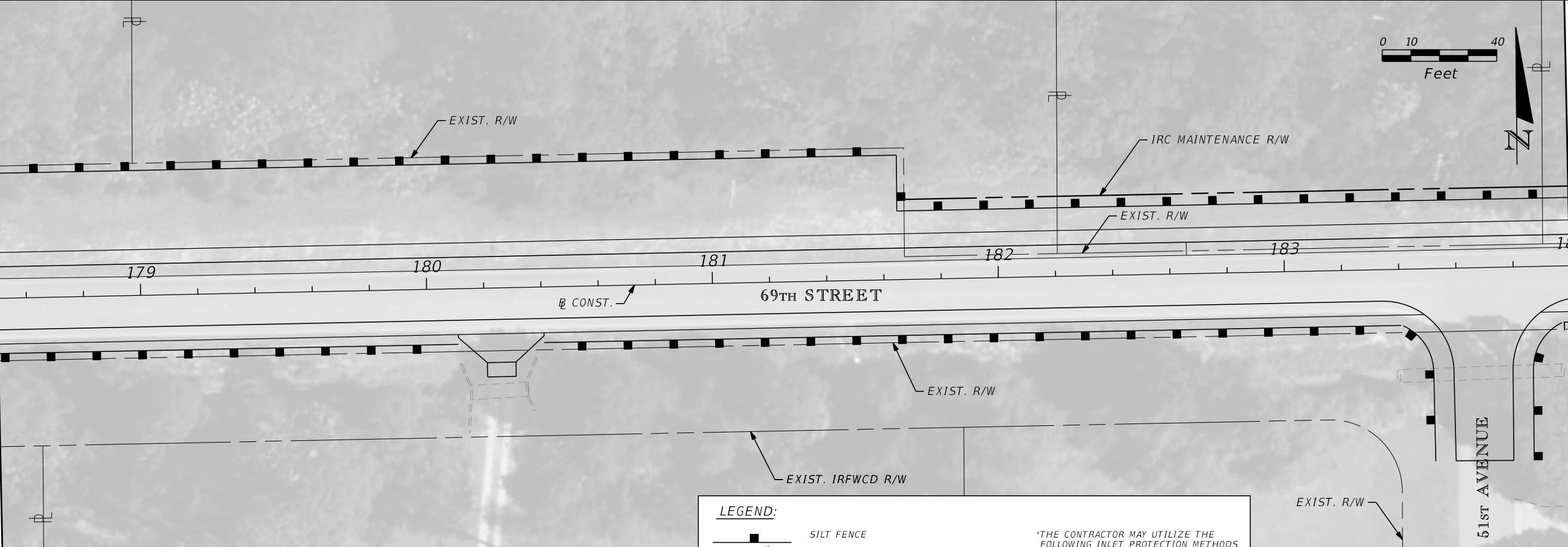
EROSION CONTROL

SHEET NO.
132



MATCHLINE STA. 178+50.00

MATCHLINE STA. 184+00.00

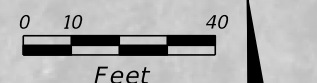


LEGEND:

- SILT FENCE
- *SEDIMENT CONTROL INLET PROTECTION
- FLOATING TURBIDITY BARRIER
- STAKED TURBIDITY BARRIER

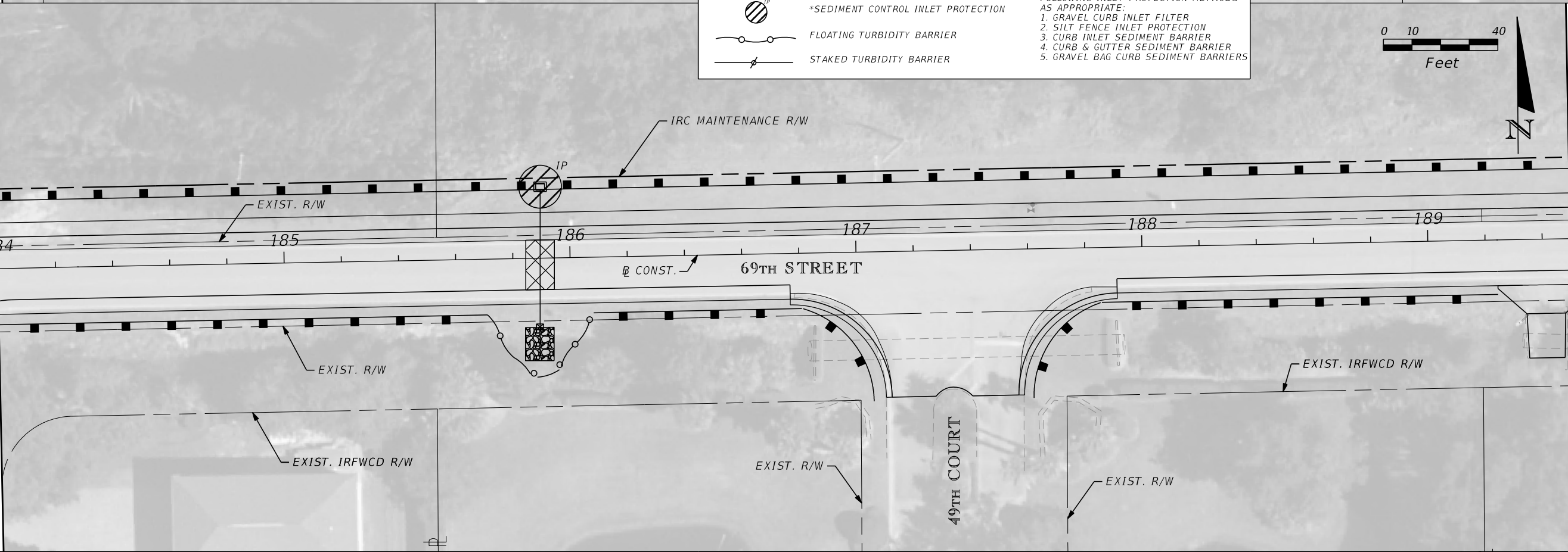
*THE CONTRACTOR MAY UTILIZE THE FOLLOWING INLET PROTECTION METHODS AS APPROPRIATE:

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2. SILT FENCE INLET PROTECTION
3. CURB INLET SEDIMENT BARRIER
4. CURB & GUTTER SEDIMENT BARRIER
5. GRAVEL BAG CURB SEDIMENT BARRIERS



MATCHLINE STA. 184+00.00

MATCHLINE STA. 189+50.00



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

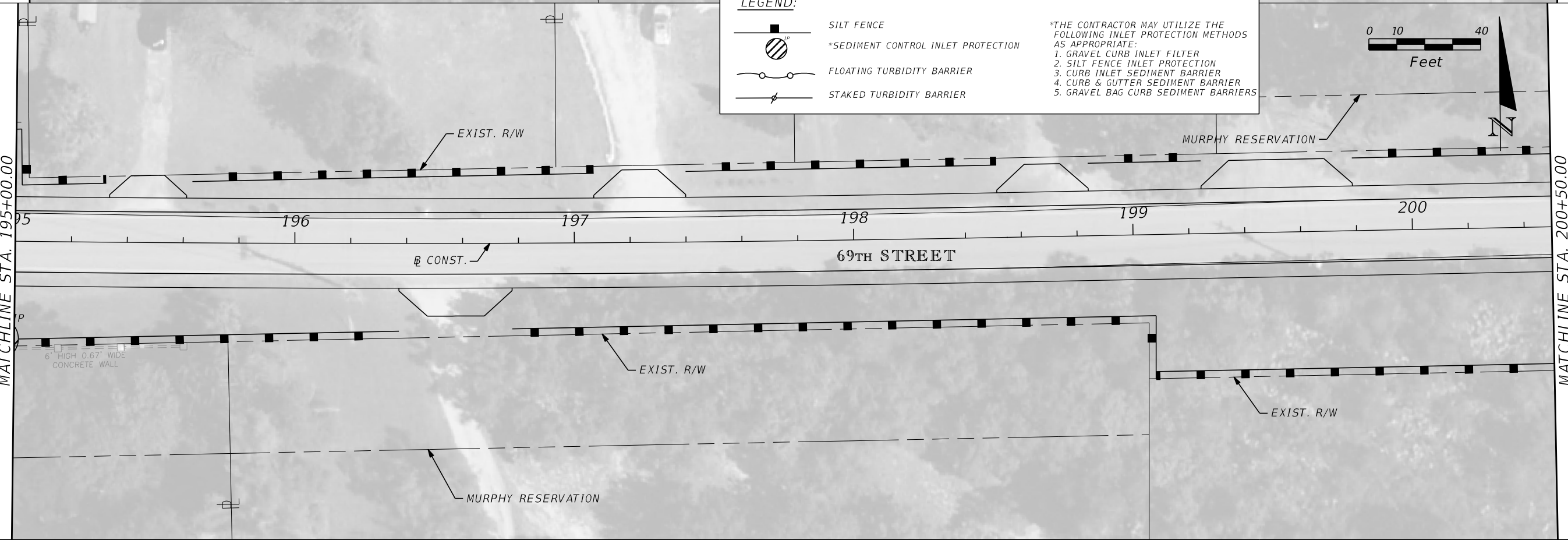
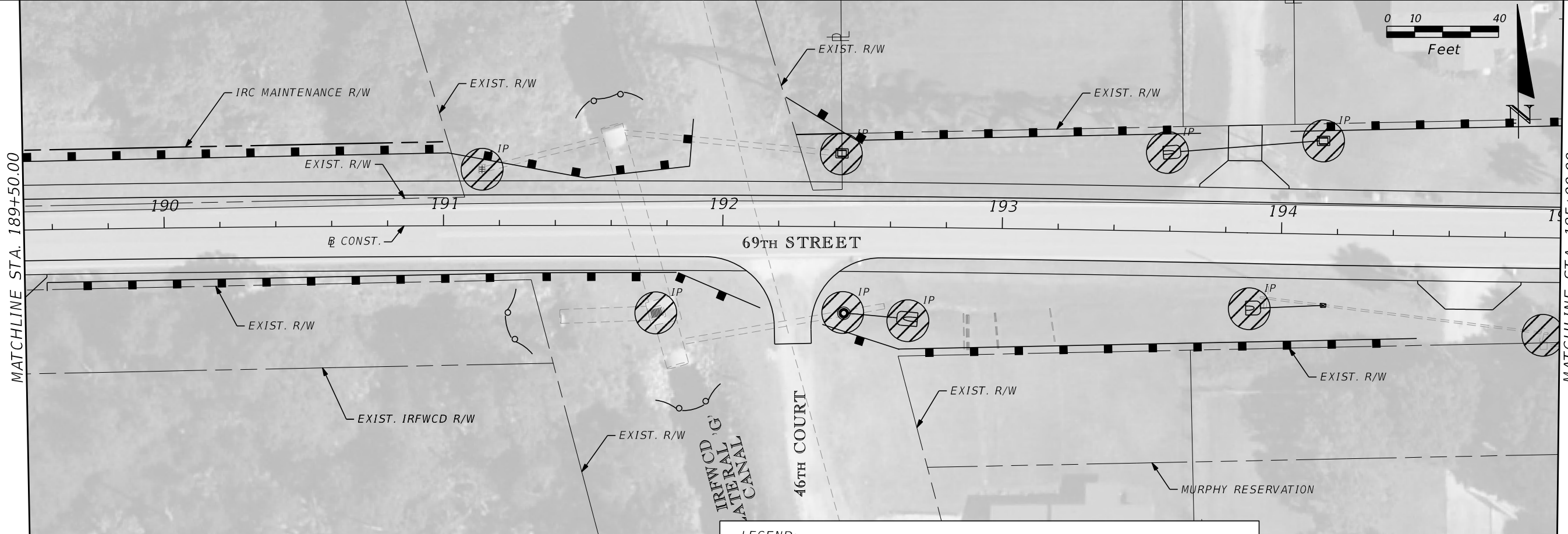
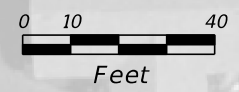
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

EROSION CONTROL

SHEET NO.
133



LEGEND:

- SILT FENCE
- *SEDIMENT CONTROL INLET PROTECTION
- FLOATING TURBIDITY BARRIER
- STAKED TURBIDITY BARRIER

*THE CONTRACTOR MAY UTILIZE THE FOLLOWING INLET PROTECTION METHODS AS APPROPRIATE:

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3. CURB INLET SEDIMENT BARRIER
4. CURB & GUTTER SEDIMENT BARRIER
5. GRAVEL BAG CURB SEDIMENT BARRIERS



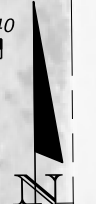
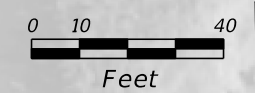
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

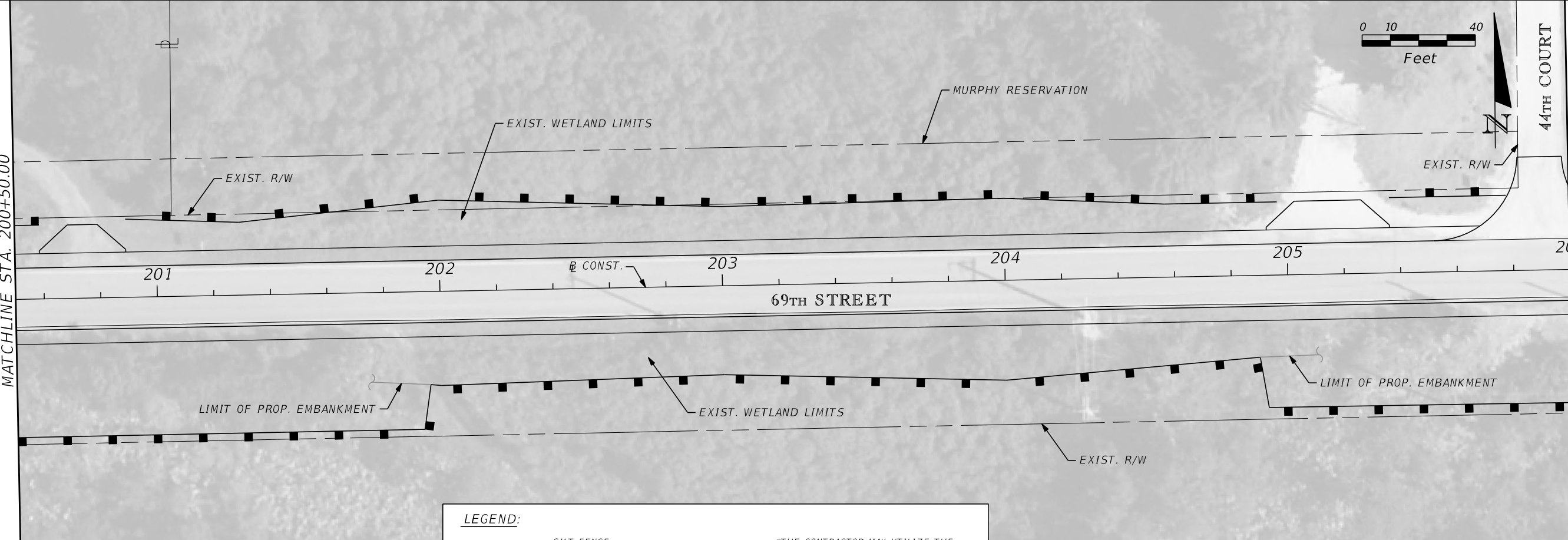
EROSION CONTROL

SHEET NO.
 134



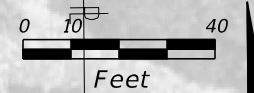
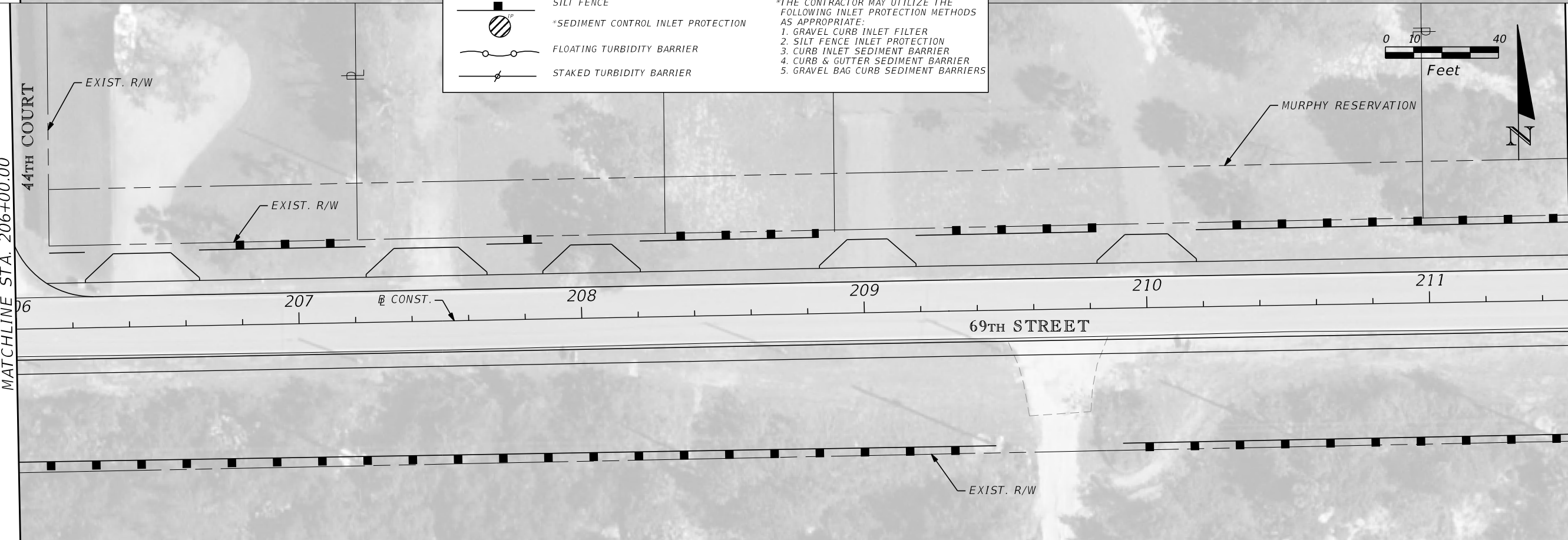
MATCHLINE STA. 200+50.00

MATCHLINE STA. 206+00.00



MATCHLINE STA. 206+00.00

MATCHLINE STA. 211+50.00



LEGEND:

- SILT FENCE
- *SEDIMENT CONTROL INLET PROTECTION
- FLOATING TURBIDITY BARRIER
- STAKED TURBIDITY BARRIER

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 3. CURB INLET SEDIMENT BARRIER
 4. CURB & GUTTER SEDIMENT BARRIER
 5. GRAVEL BAG CURB SEDIMENT BARRIERS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

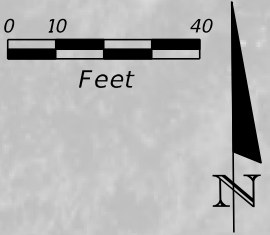
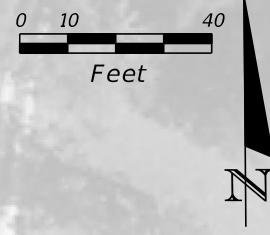
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 (772) 794-4100
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**INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS**
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

EROSION CONTROL

SHEET NO.
135



MATCHLINE STA. 211+50.00

MATCHLINE STA. 217+00.00

MATCHLINE STA. 217+00.00

MATCHLINE STA. 222+50.00

MURPHY RESERVATION

EXIST. R/W

EXIST. R/W

EXIST. R/W

IRC MAINTENANCE R/W

LEGEND:

- SILT FENCE
- *SEDIMENT CONTROL INLET PROTECTION
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 4. CURB & GUTTER SEDIMENT BARRIER
 5. GRAVEL BAG CURB SEDIMENT BARRIERS

**END 69TH STREET EROSION CONTROL
STA. 217+07.44**

EXIST. R/W

EXIST. R/W

212

CONST. 213

214

215

216

69TH STREET

218

219

220

CONST. 221

222

69TH STREET

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

EROSION CONTROL

SHEET NO.
136

MATCHLINE STA. 222+50.00

MATCHLINE STA. 228+00.00

MATCHLINE STA. 228+00.00

MATCHLINE STA. 232+00.00

EXIST. R/W

EXIST. R/W

EXIST. R/W

EXIST. R/W



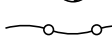
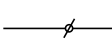
EXIST. R/W

EXIST. R/W

EXIST. R/W

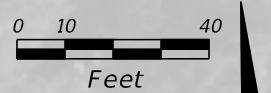
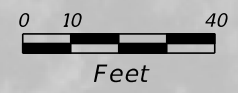
EXIST. R/W

LEGEND:

-  SILT FENCE
-  *SEDIMENT CONTROL INLET PROTECTION
-  FLOATING TURBIDITY BARRIER
-  STAKED TURBIDITY BARRIER

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4. CURB & GUTTER SEDIMENT BARRIER
5. GRAVEL BAG CURB SEDIMENT BARRIERS



223

224

225

226

227

228

228

229

230

231

232

39TH COURT

PRESERVE WAY

CONST.

CONST.

CONST.

69TH STREET

69TH STREET

Kimley»Horn

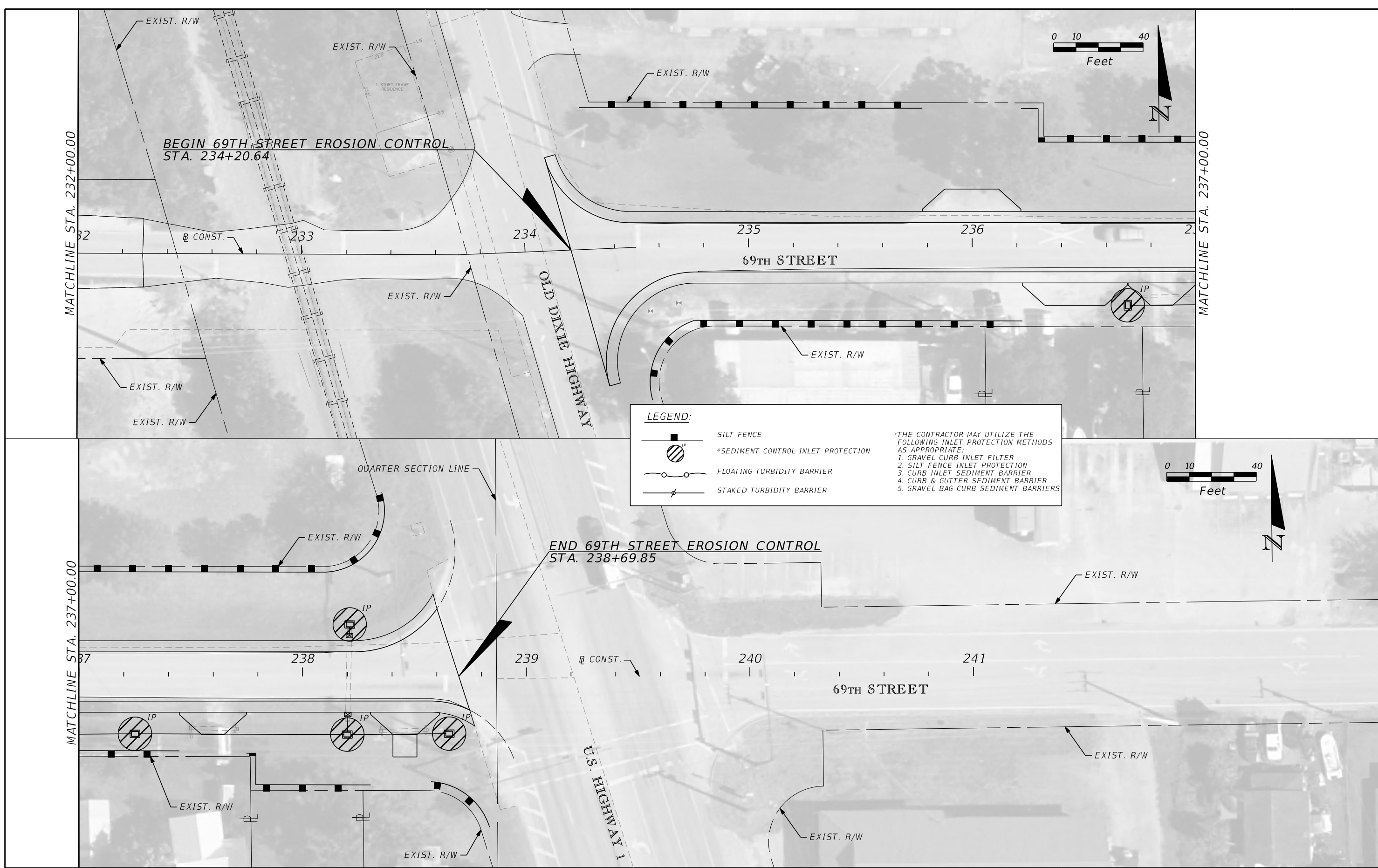
BRIAN A. GOOD, P.E.
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 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

EROSION CONTROL

SHEET NO.

137



LEGEND:

- SILT FENCE
- *SEDIMENT CONTROL INLET PROTECTION
- FLOATING TURBIDITY BARRIER
- STAKED TURBIDITY BARRIER

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4. CURB & GUTTER SEDIMENT BARRIER
5. GRAVEL BAG CURB SEDIMENT BARRIERS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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REGISTRY No. 696

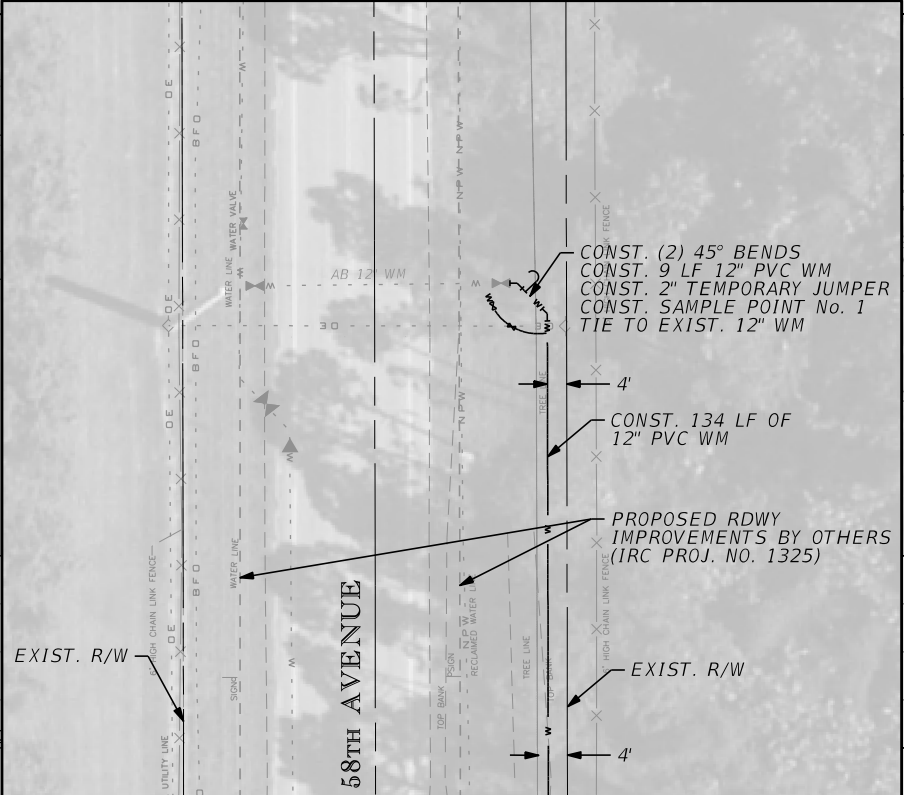
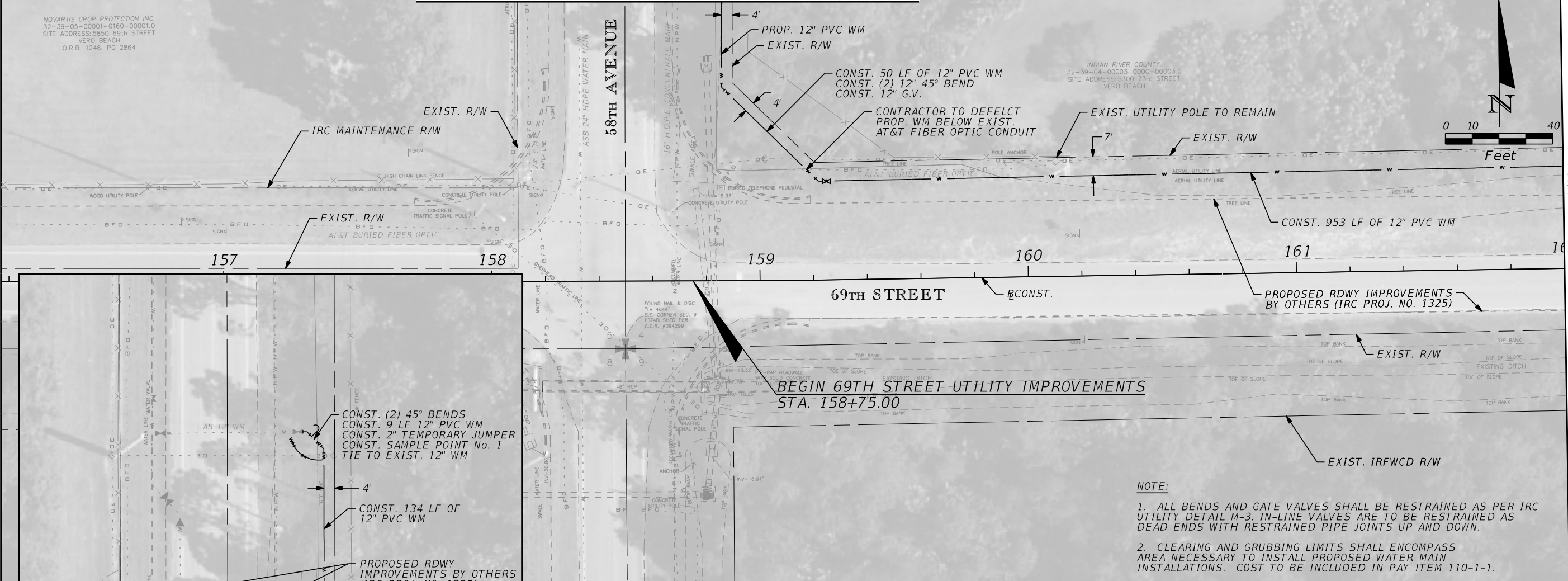
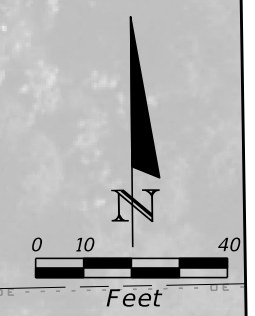
INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
69TH STREET FROM 66TH AVENUE
TO SR5/US-1, RESURFACING

EROSION CONTROL

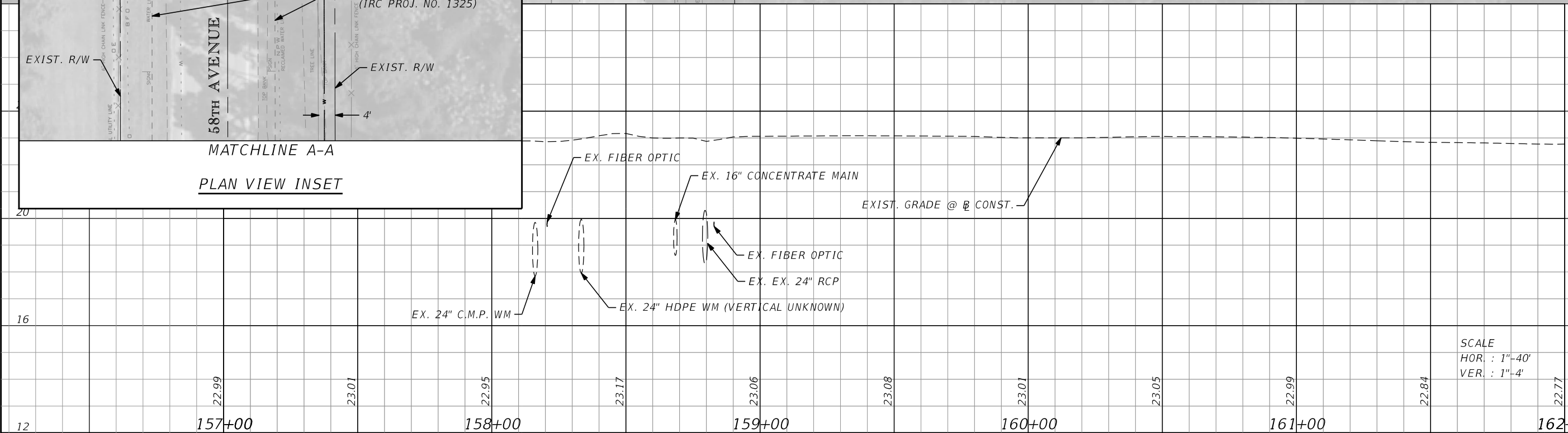
SHEET NO.
138

NOVARTIS CROP PROTECTION INC.
32-39-05-00001-0160-00001.0
SITE ADDRESS: 5850 69th STREET
VERO BEACH
O.R.B. 1246, PG 2864

INDIAN RIVER COUNTY
32-39-04-00003-0000-00003.0
SITE ADDRESS: 5300 73rd STREET
VERO BEACH



- NOTE:**
1. ALL BENDS AND GATE VALVES SHALL BE RESTRAINED AS PER IRC UTILITY DETAIL M-3. IN-LINE VALVES ARE TO BE RESTRAINED AS DEAD ENDS WITH RESTRAINED PIPE JOINTS UP AND DOWN.
 2. CLEARING AND GRUBBING LIMITS SHALL ENCOMPASS AREA NECESSARY TO INSTALL PROPOSED WATER MAIN INSTALLATIONS. COST TO BE INCLUDED IN PAY ITEM 110-1-1.



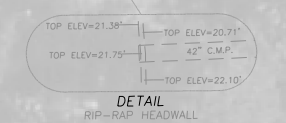
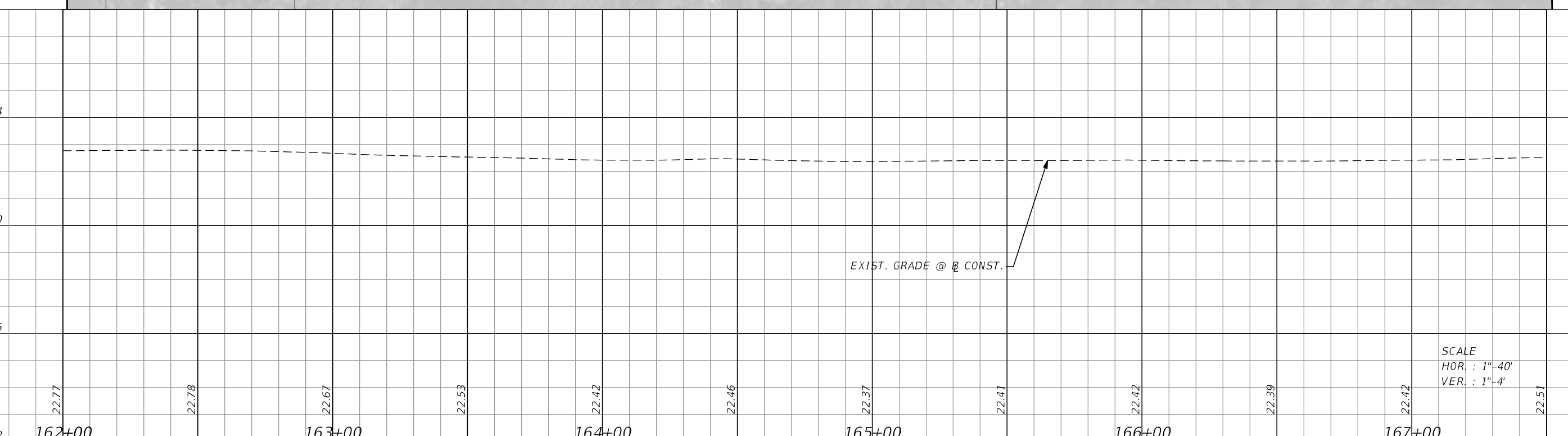
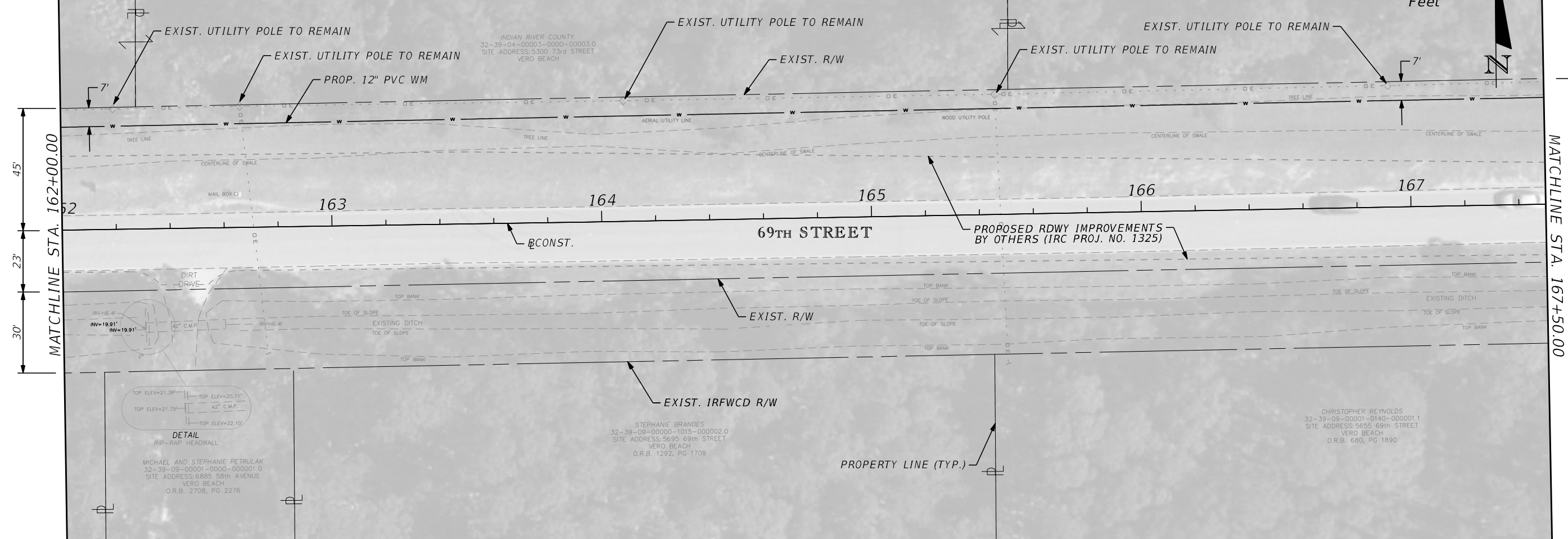
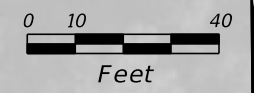
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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BRIAN A. GOOD, P.E.
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445 24th STREET, SUITE 200
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REGISTRY No. 696

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
69TH STREET FROM 66TH AVENUE
TO SR5/US-1, RESURFACING

UTILITY IMPROVEMENT
PLAN & PROFILE

SHEET NO.
139



MICHAEL AND STEPHANIE PETRULAK
32-39-09-00001-0000-000001.0
SITE ADDRESS: 6885 58th AVENUE
VERO BEACH
O.R.B. 2708, PG 2276

STEPHANIE BRANDES
32-39-09-00000-1015-000002.0
SITE ADDRESS: 5695 69th STREET
VERO BEACH
O.R.B. 1292, PG 1709

CHRISTOPHER REYNOLDS
32-39-09-00001-0140-000001.1
SITE ADDRESS: 5655 69th STREET
VERO BEACH
O.R.B. 680, PG 1890

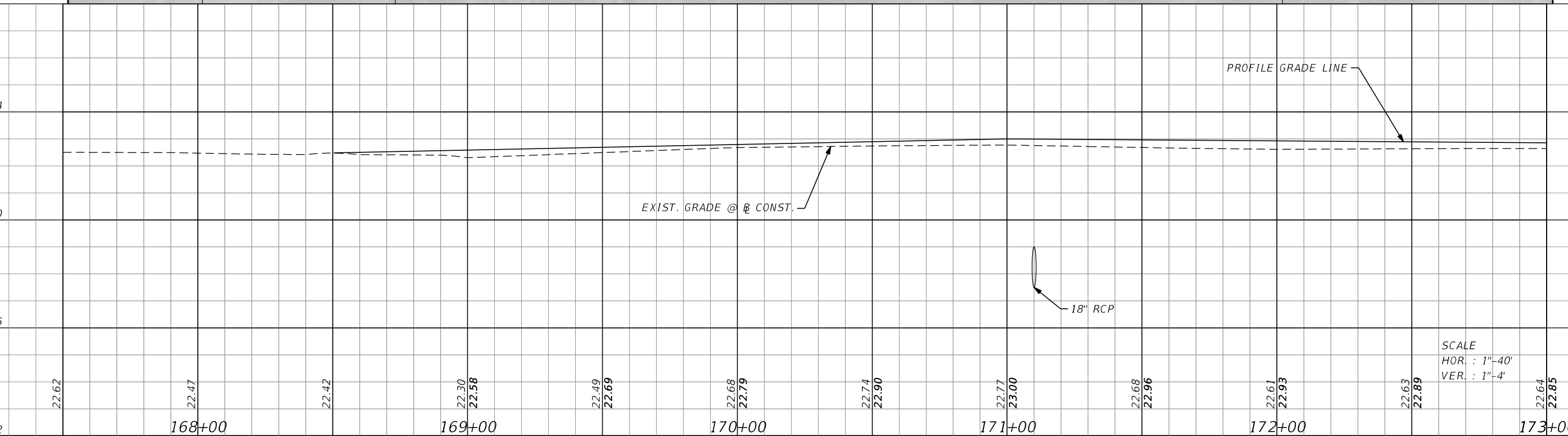
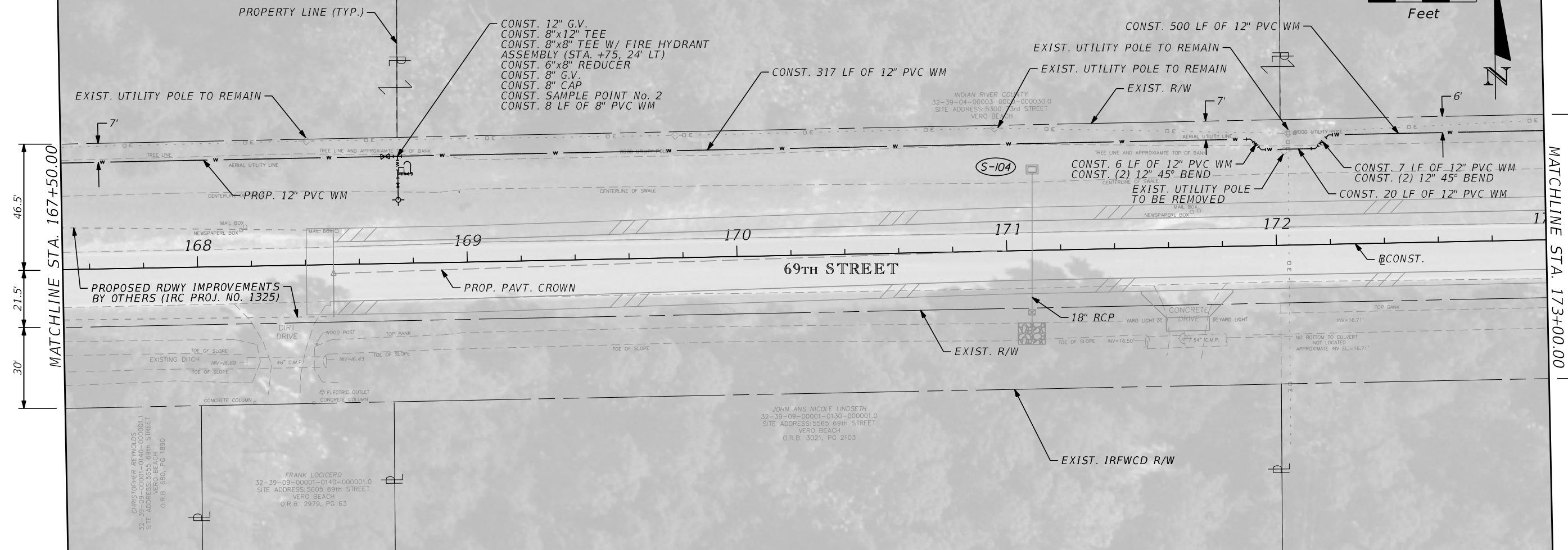
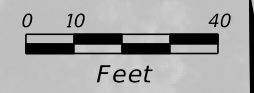
DATE		BY		DESCRIPTION	

Kimley»Horn
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INDIAN RIVER COUNTY
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69TH STREET FROM 66TH AVENUE
TO SR5/US-1, RESURFACING

UTILITY IMPROVEMENT
PLAN & PROFILE

SHEET NO.
140



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

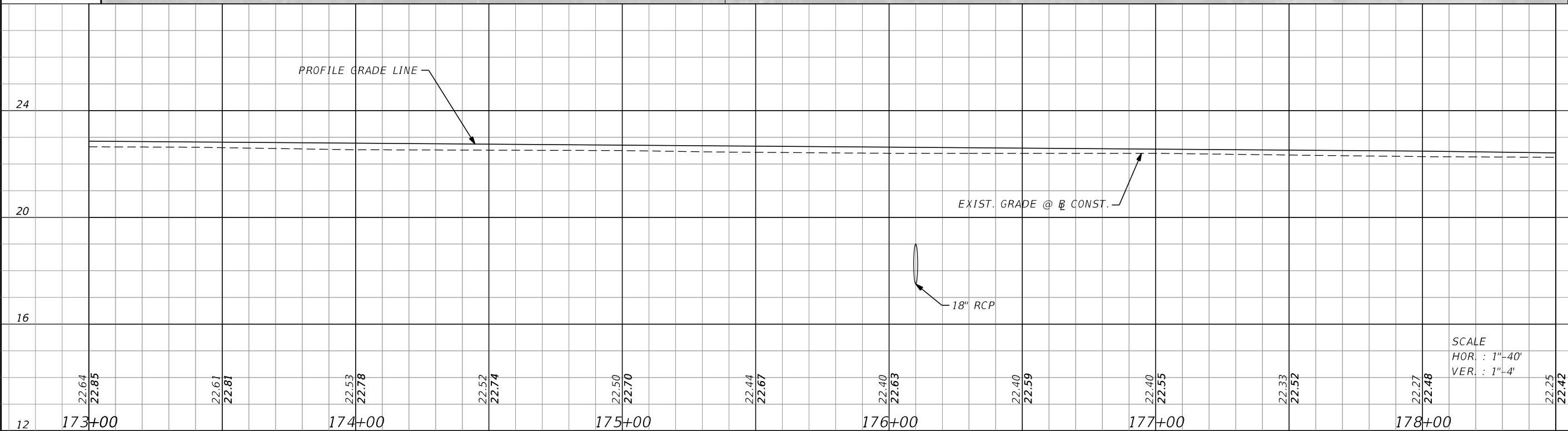
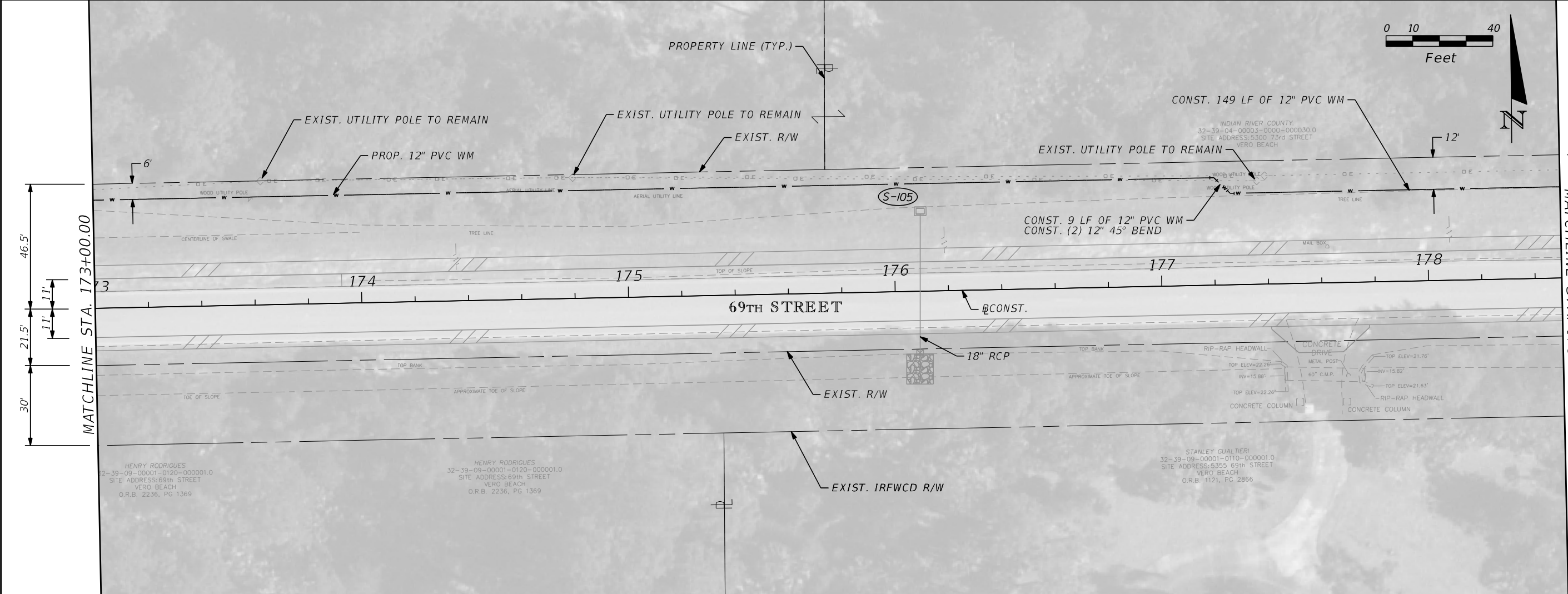
Kimley»Horn
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

UTILITY IMPROVEMENT
 PLAN & PROFILE

SHEET NO.
 141

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DATE		BY		DESCRIPTION	

DATE	BY	DESCRIPTION
1/17/2022	Rebecca.Pastir	2:49:02 PM K:\VRB_Roadway\047035105 - 69th Street M & R\Cadd\Rdwy\PLANS_UTILITY\PLANUT04.dgn

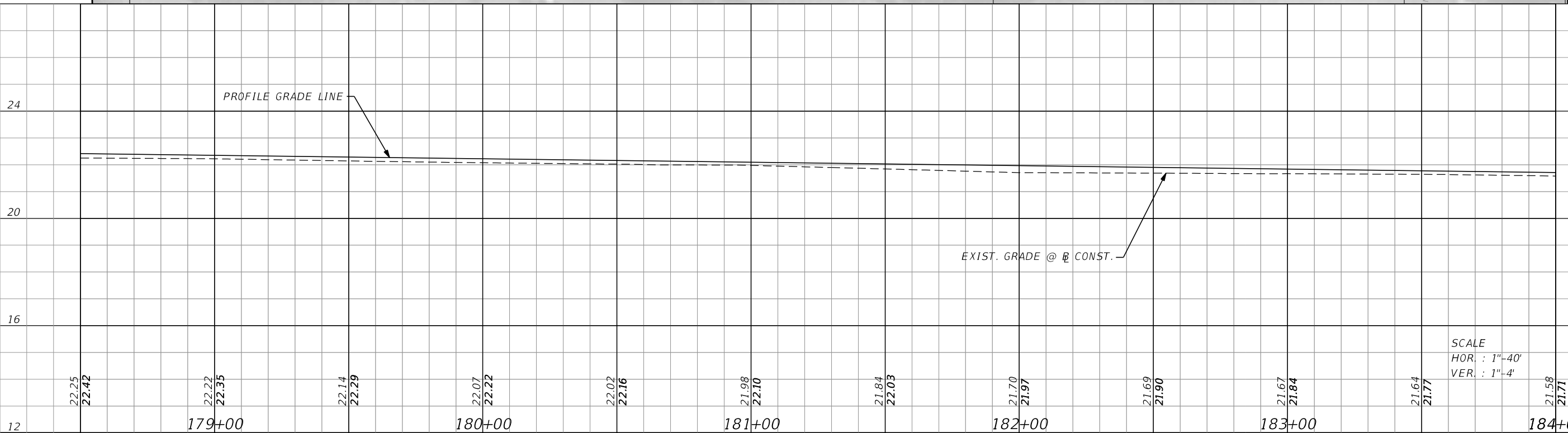
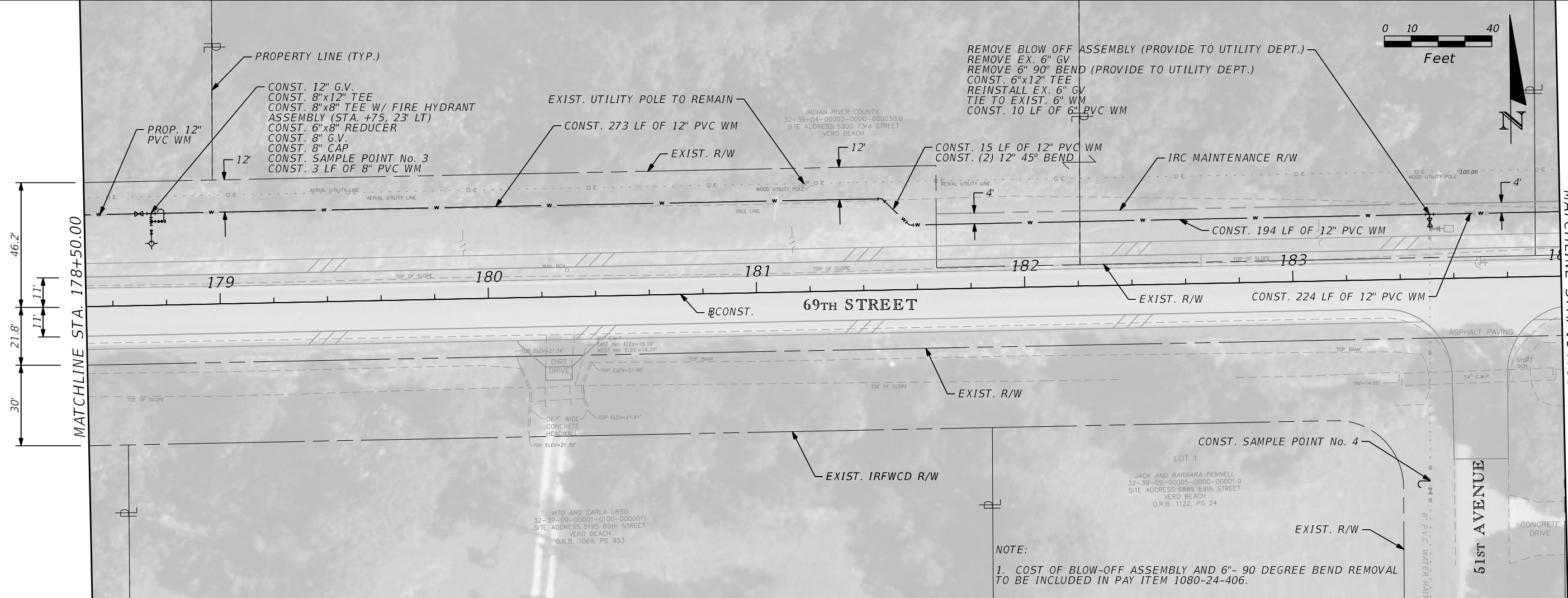
Kimley»Horn
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INDIAN RIVER COUNTY
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 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

UTILITY IMPROVEMENT
 PLAN & PROFILE

SHEET NO.
 142

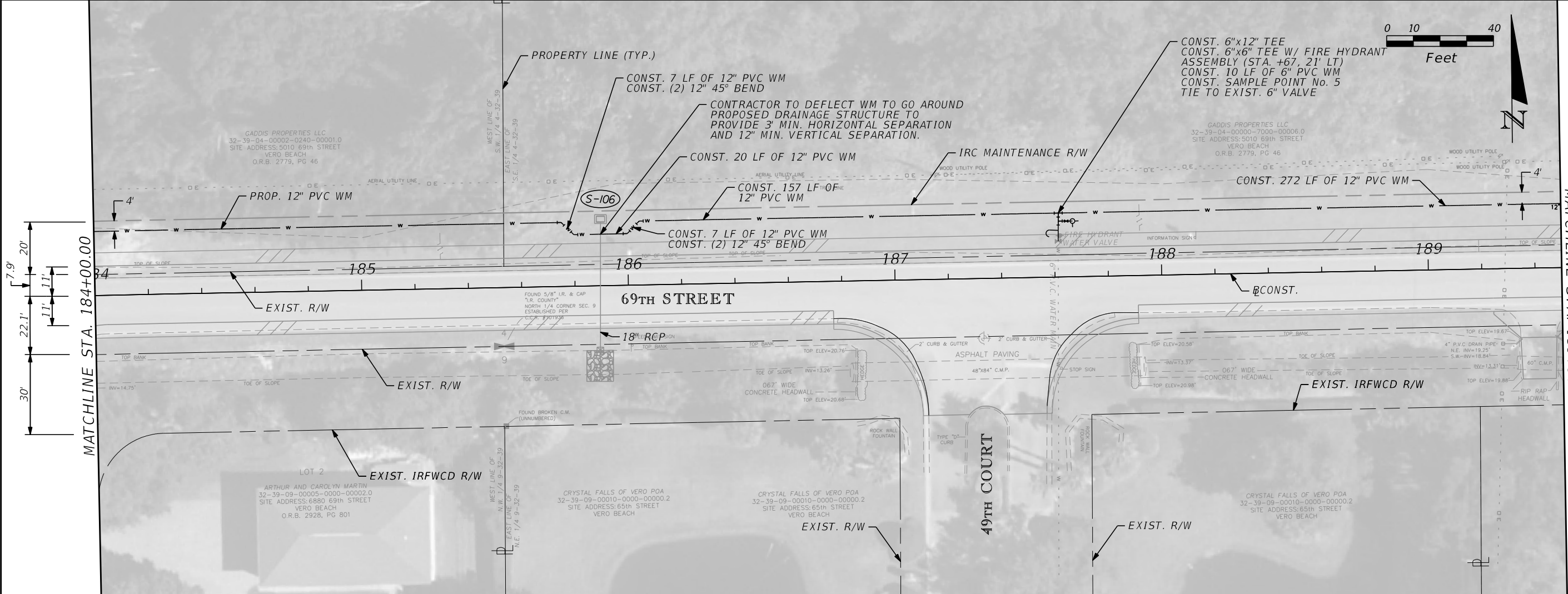
I.R.C.O. Proj. No. 1639
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DATE		BY		DESCRIPTION	
REVISIONS					

Kimley»Horn BRIAN A. GOOD, P.E. P.E. LICENSE NUMBER 56939 445 24th STREET, SUITE 200 VERO BEACH, FL 32960 (772) 794-4100 REGISTRY No. 696	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 69TH STREET FROM 66TH AVENUE TO SR5/US-1, RESURFACING	UTILITY IMPROVEMENT PLAN & PROFILE
SHEET NO. 143		1639

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

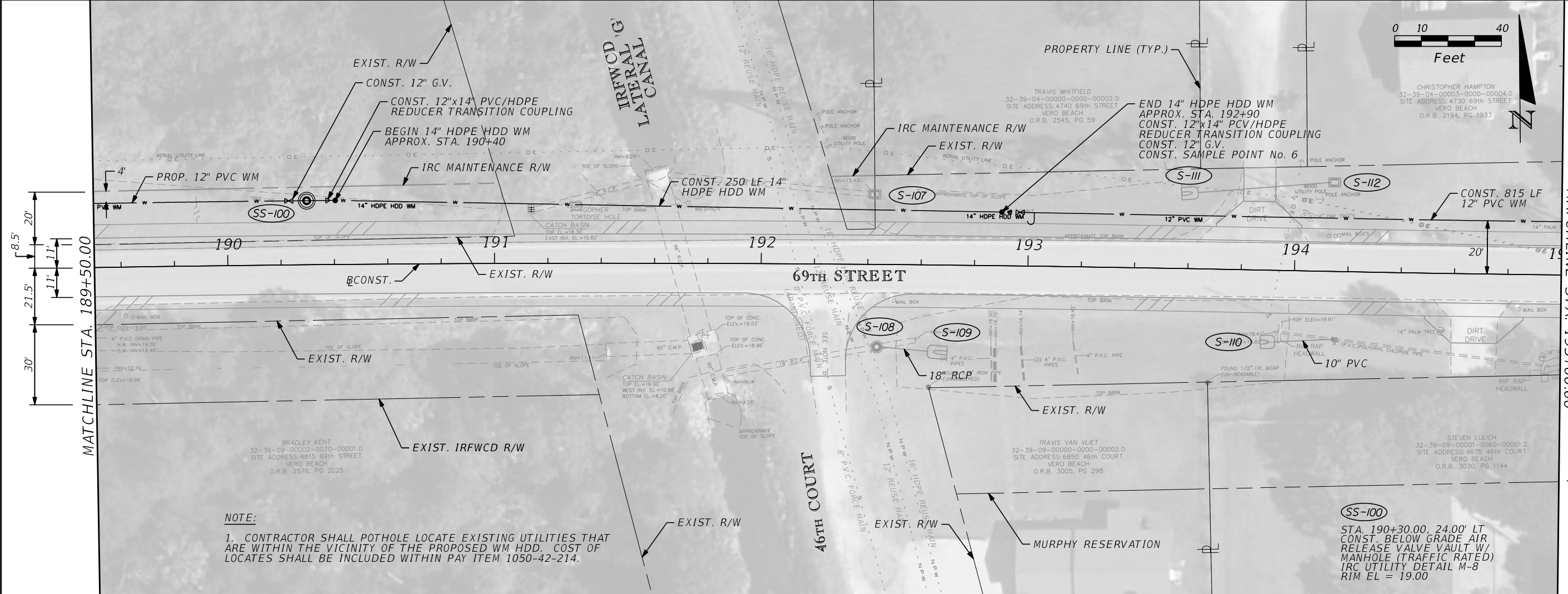


Kimley»Horn
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 P.E. LICENSE NUMBER 56939
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 VERO BEACH, FL 32960
 (772) 794-4100
 REGISTRY No. 696

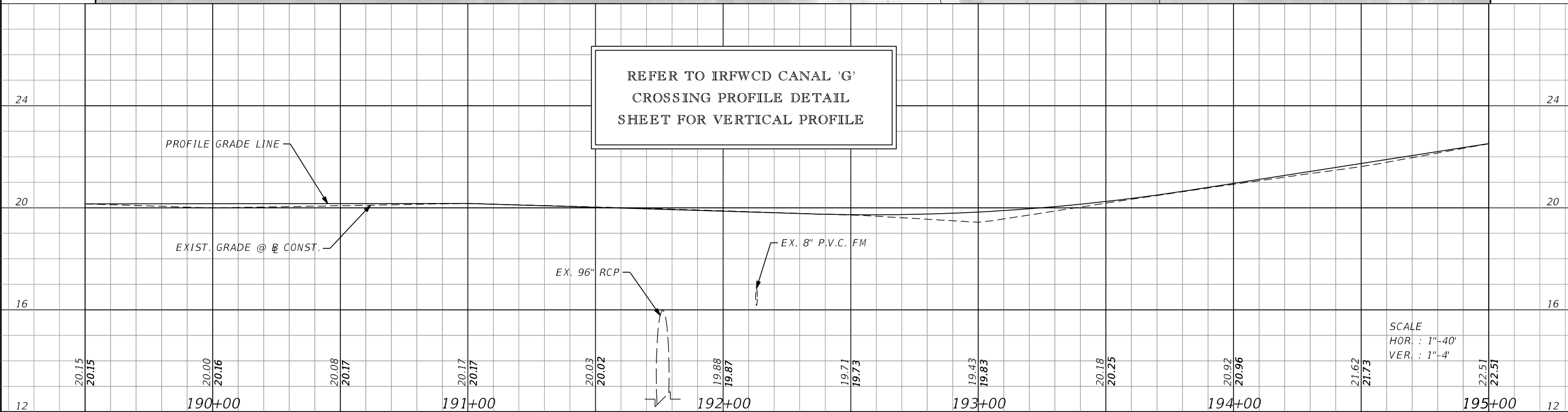
INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

UTILITY IMPROVEMENT
 PLAN & PROFILE

SHEET NO.
 144



NOTE:
 1. CONTRACTOR SHALL POT HOLE LOCATE EXISTING UTILITIES THAT ARE WITHIN THE VICINITY OF THE PROPOSED WM HDD. COST OF LOCATES SHALL BE INCLUDED WITHIN PAY ITEM 1050-42-214.



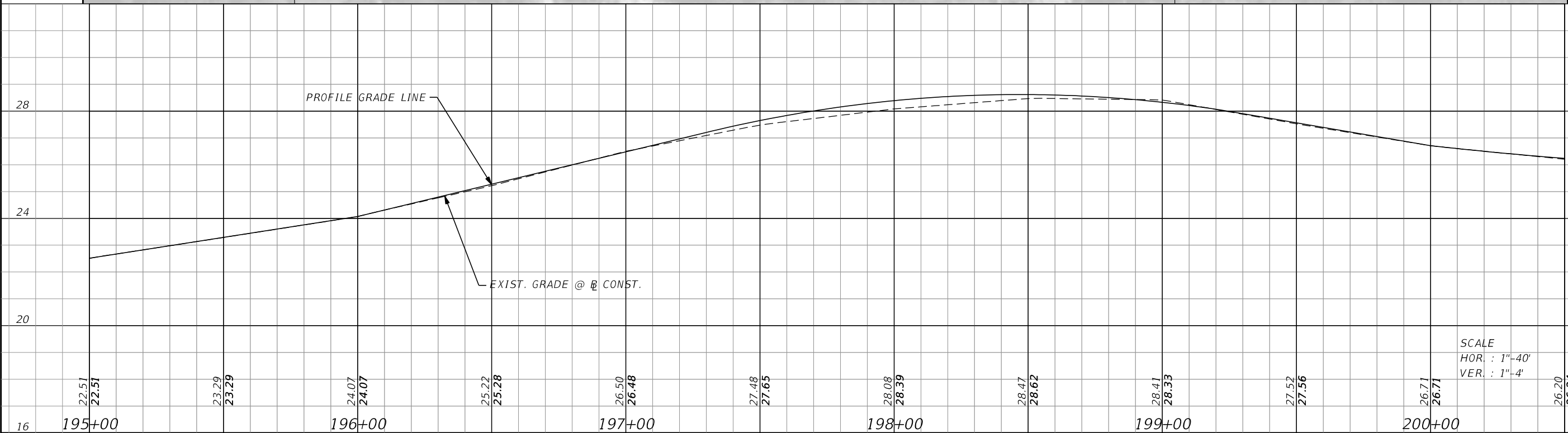
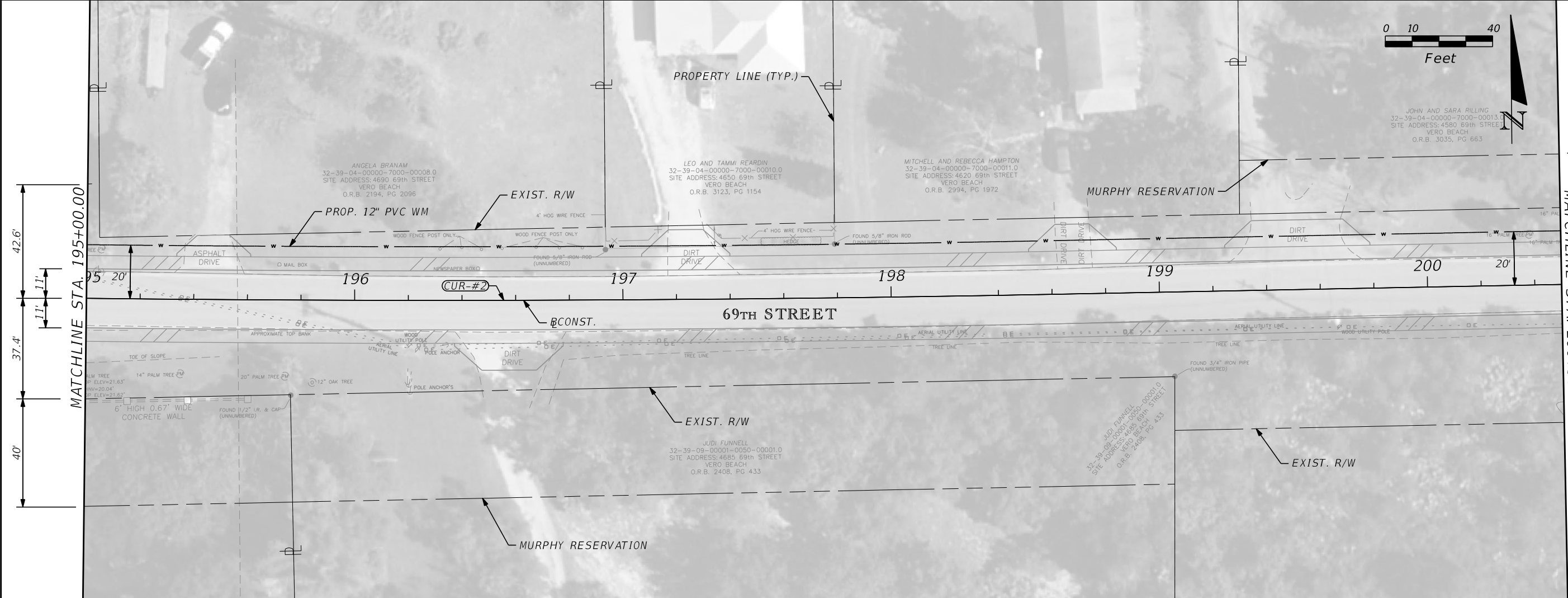
DATE		BY	DESCRIPTION	DATE		BY	DESCRIPTION

Kimley»Horn
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 P.E. LICENSE NUMBER 56939
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INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
69TH STREET FROM 66TH AVENUE
TO SR5/US-1, RESURFACING

UTILITY IMPROVEMENT
PLAN & PROFILE

SHEET NO.
 145



SCALE
HOR. : 1"=40'
VER. : 1"=4'

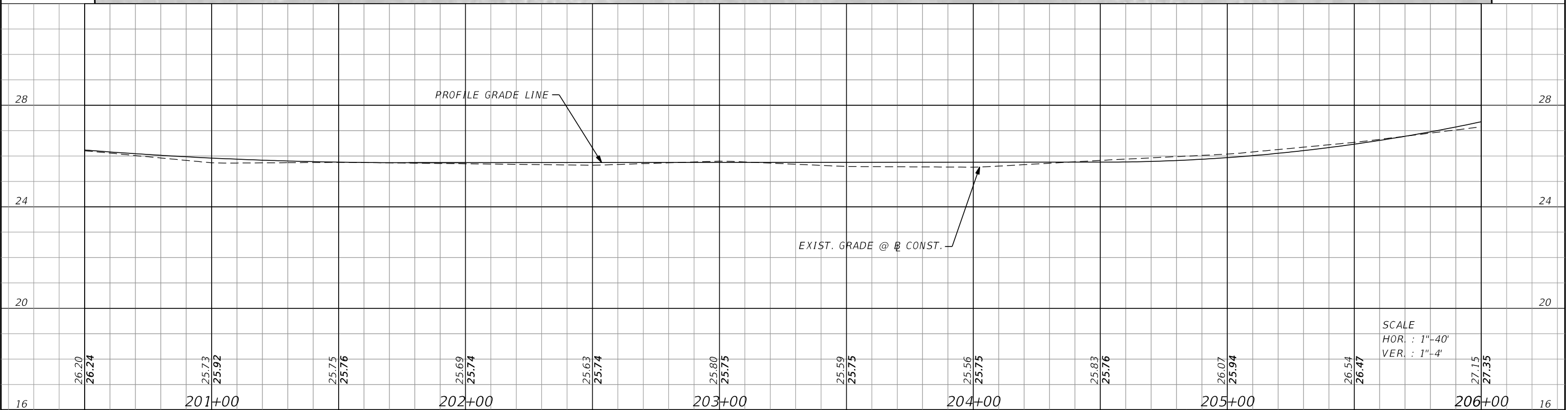
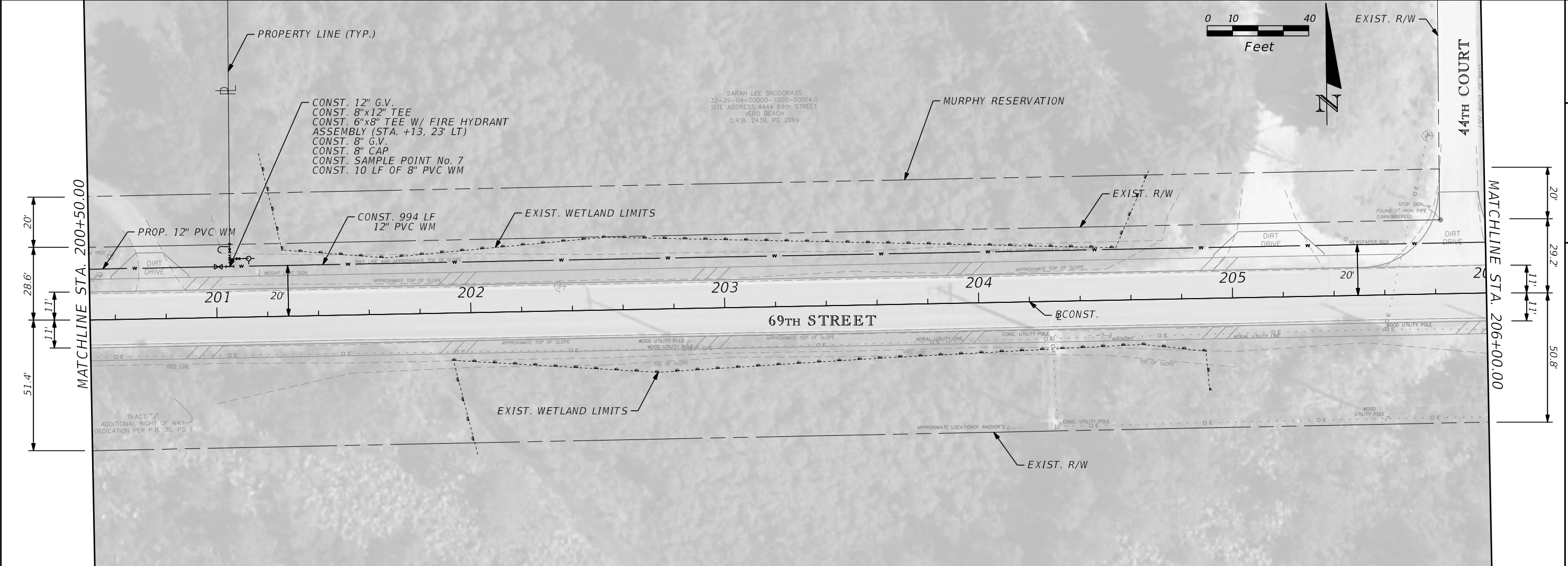
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 696

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
69TH STREET FROM 66TH AVENUE
TO SR5/US-1, RESURFACING

UTILITY IMPROVEMENT
PLAN & PROFILE

SHEET NO.
146



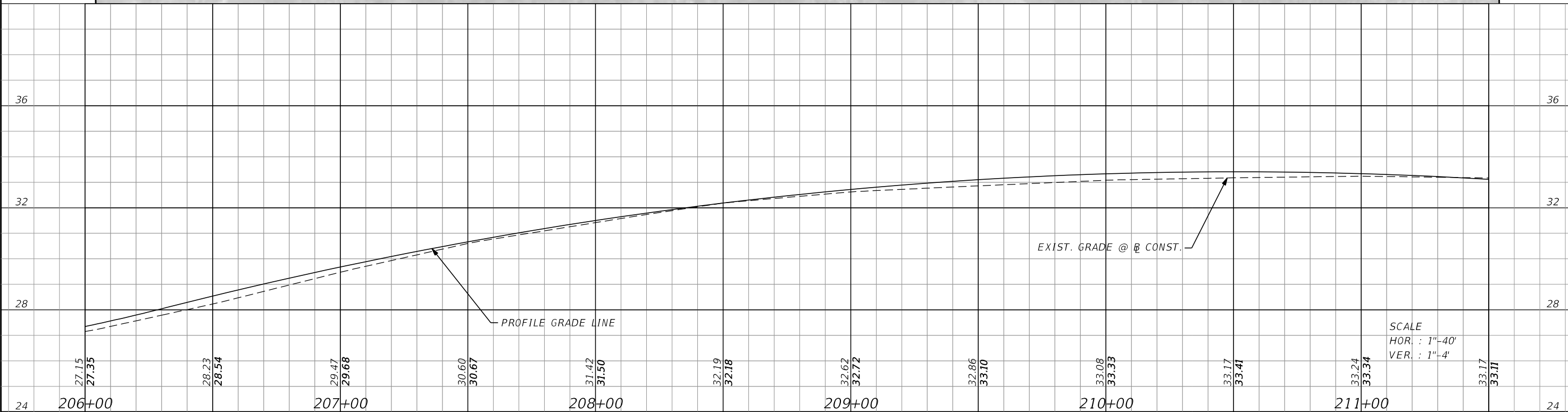
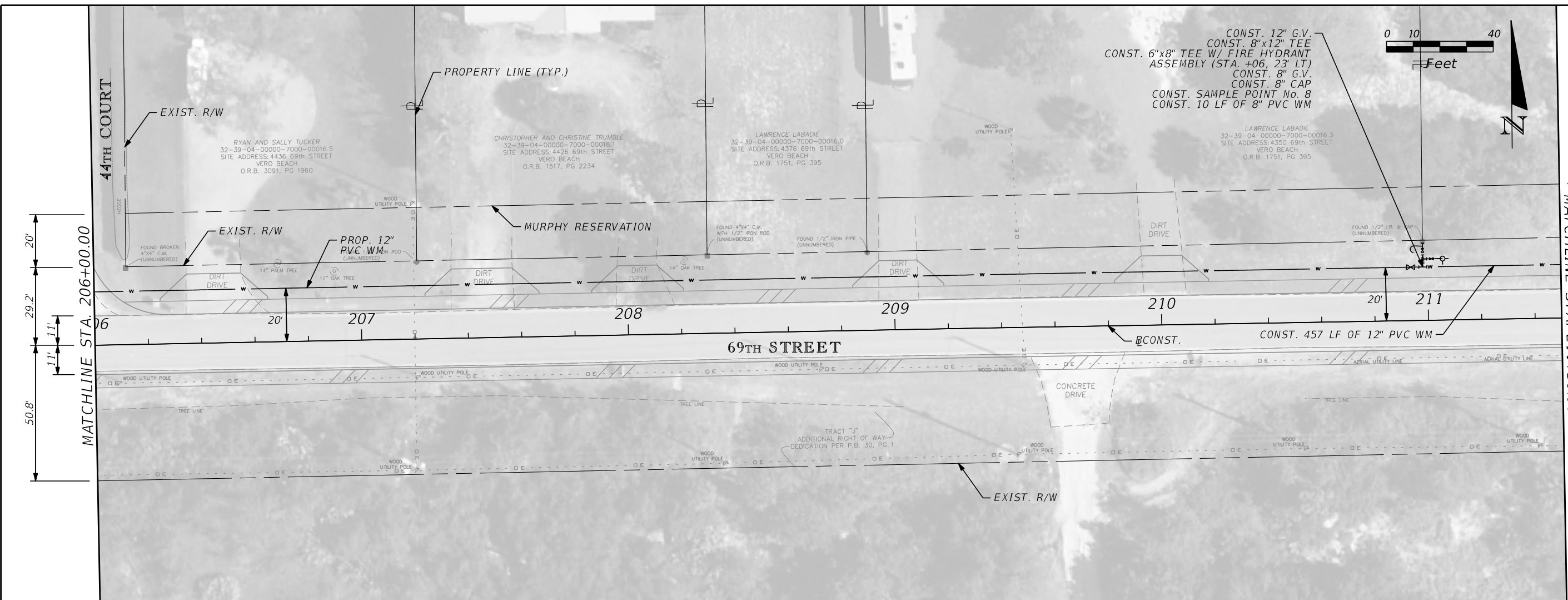
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**INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS**
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

**UTILITY IMPROVEMENT
 PLAN & PROFILE**

SHEET NO.
 147



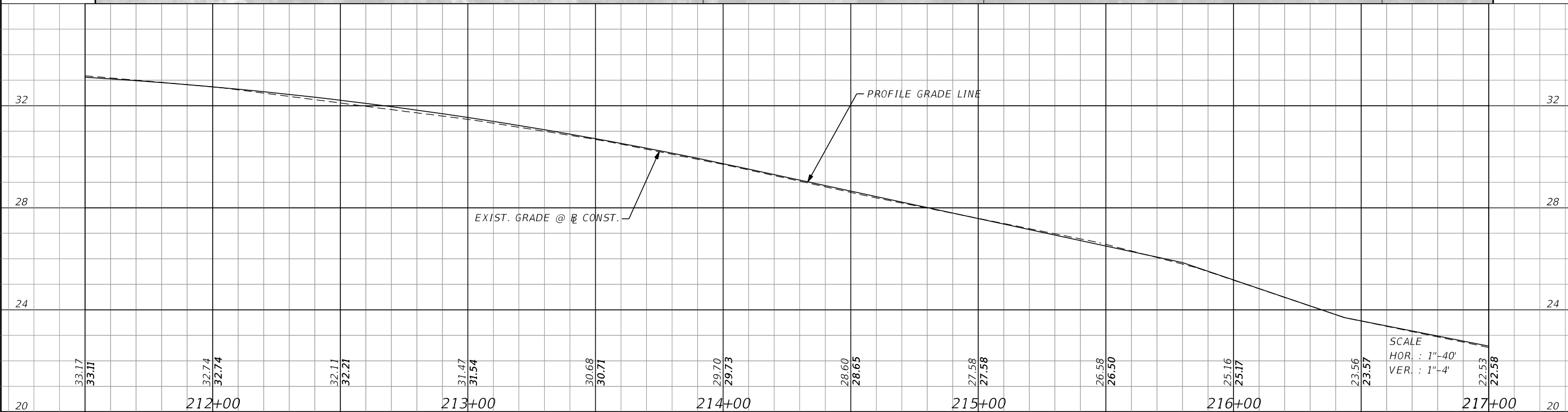
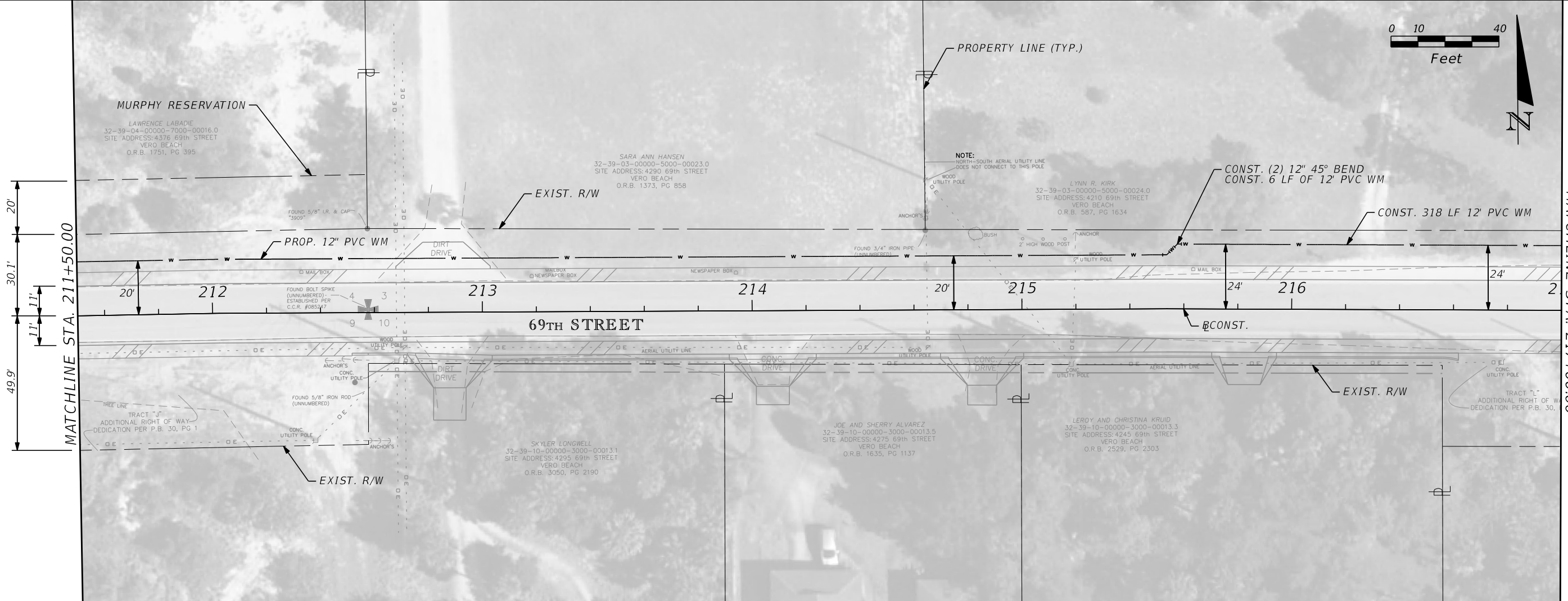
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1/17/2022	2:50:12 PM	Rebecca.Pastir			

Kimley»Horn	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS 69TH STREET FROM 66TH AVENUE TO SR5/US-1, RESURFACING	UTILITY IMPROVEMENT PLAN & PROFILE	SHEET NO. 148
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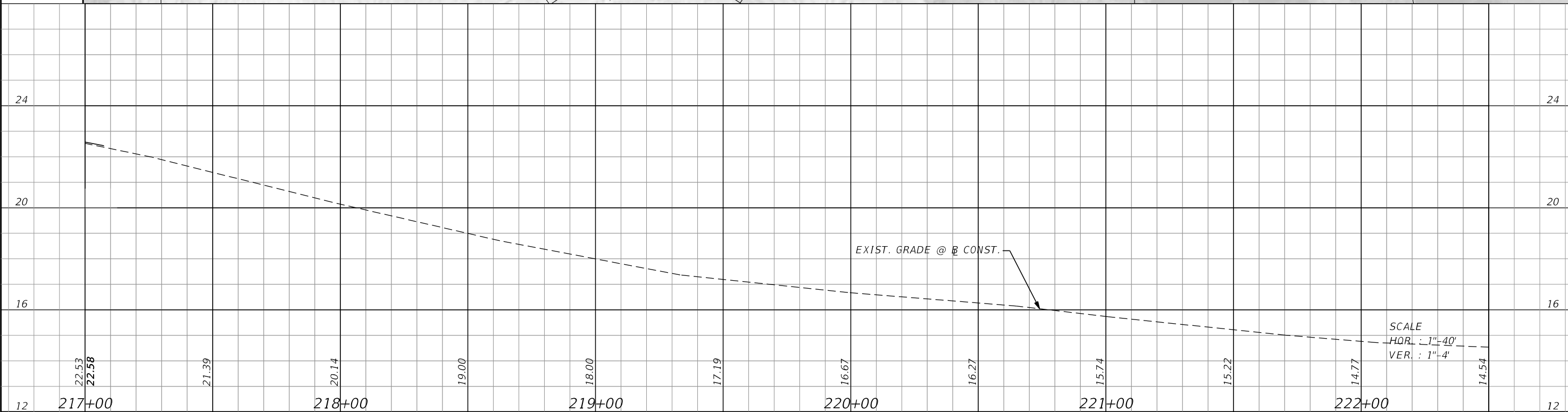
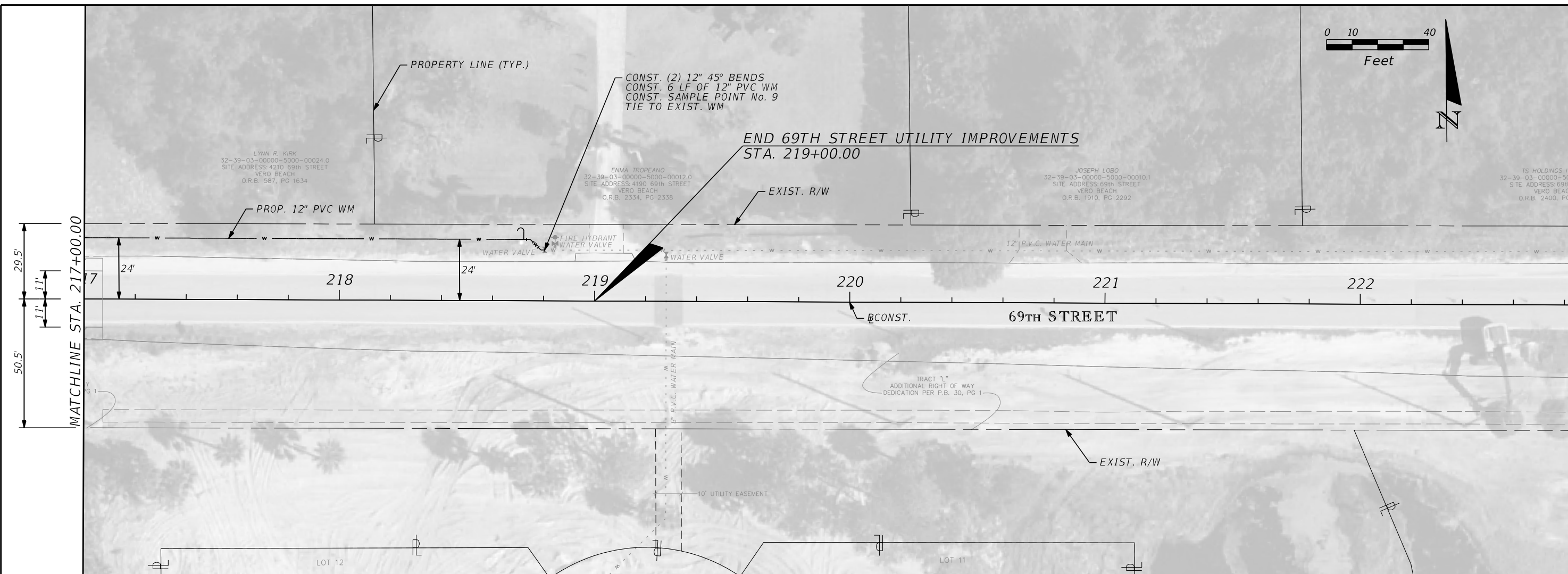
INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

UTILITY IMPROVEMENT
 PLAN & PROFILE

SHEET NO.
 149



I.R.CO. Proj. No. 1639



SCALE
 HOR. : 1"=40'
 VER. : 1"=4'

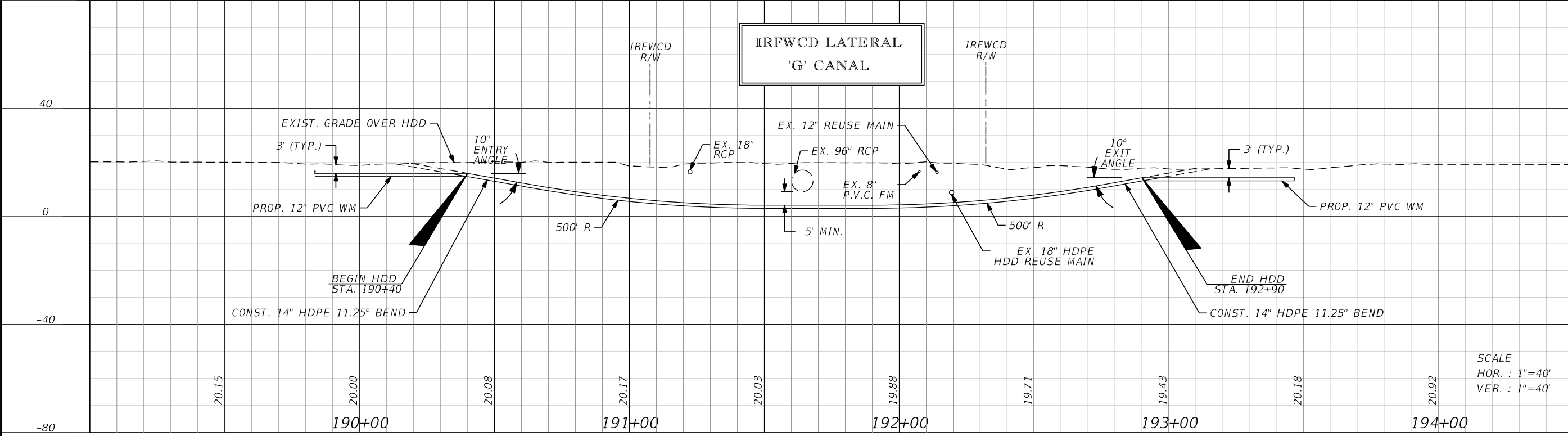
REVISIONS					
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

UTILITY IMPROVEMENT
 PLAN & PROFILE

SHEET NO.
 150



SCALE
 HOR. : 1"=40'
 VER. : 1"=40'

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

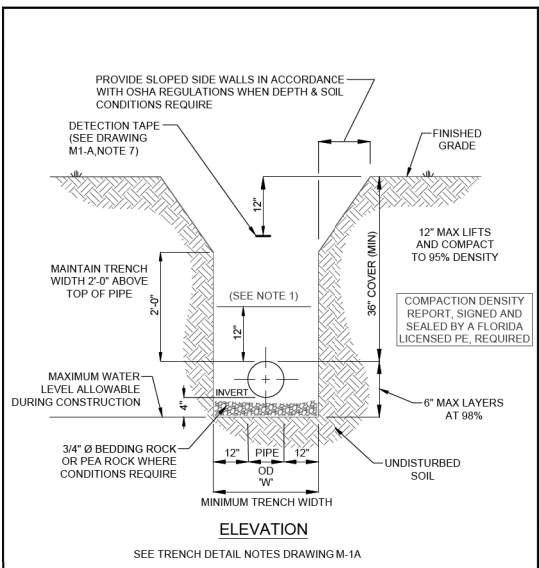
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

IRFWCD CANAL 'G'
 CROSSING PROFILE DETAIL

SHEET NO.
 151

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NOTES:
 1. MECHANICAL COMPACTION NOT ALLOWED BELOW THIS LEVEL OTHER THAN HAND VIBRATORY MEANS.
 2. ALL RESTORATION IN EASEMENTS OR RIGHT-OF-WAYS OR WHEN REQUIRED BY OTHER JURISDICTIONAL AGENCIES SHALL CONFORM TO IRCDUS SPECIFICATIONS OR THE OTHER JURISDICTIONAL AGENCY SPECIFICATION, WHICHEVER IS MORE STRINGENT.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
TRENCH DETAIL (UNPAVED EASEMENT)
 DRAWING NO. M-1

- NOTES:**
- WHERE SOIL CONDITIONS CANNOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE METHOD OF CONSTRUCTION TO IRCDUS FOR APPROVAL.
 - SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD IN ACCORDANCE WITH OSHA REGULATIONS.
 - COMPACTION PERCENTAGES SHOWN REFER TO AASHTO T-180 MODIFIED PROCTOR METHOD.
 - MECHANICAL COMPACTION NOT ALLOWED BELOW THIS LEVEL OTHER THAN HAND VIBRATORY MEANS.
 - COMPACTION REPORTS REQUIRED.
 - MINIMUM TRENCH WIDTH "W" = PIPE O.D. PLUS 2'-0".
 - 2" DETECTION TAPE WITH METALLIC BACKING TO BE INSTALLED OVER MAIN 6" BELOW BOTTOM OF BASE COURSE. TAPE TO BE MARKED "CAUTION-WATER LINE BELOW", "CAUTION-FORCE MAIN BELOW", OR "CAUTION-REUSE MAIN BELOW". TRACE WIRE SHALL BE USED CONTINUOUSLY ON ALL PIPE. SEE DRAWING, No. M-14, TRACE WIRE DETAIL.
 - ALL RESTORATION IN EASEMENTS OR RIGHT-OF-WAYS OR WHEN REQUIRED BY OTHER JURISDICTIONAL AGENCIES SHALL CONFORM TO IRCDUS SPECIFICATIONS OR THE OTHER JURISDICTIONAL AGENCY SPECIFICATION, WHICHEVER IS MORE STRINGENT.
 - ALL PIPE TO BE LOCATED A MINIMUM OF 5' O.C. (TYPICAL) FROM EDGE OF PAVEMENT.
 - EXCAVATABLE FLOWABLE FILL IS ALLOWED WITH PRIOR APPROVAL OF PROPOSED MATERIAL STRENGTH BY COUNTY PUBLIC WORKS ENGINEER OR DESIGNER.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
TRENCH DETAIL NOTES
 DRAWING NO. M-1 A

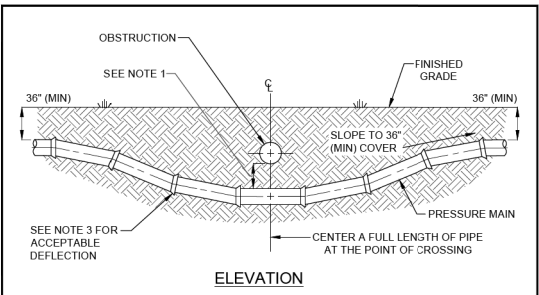
PIPE DIAMETER (INCHES)	D.I.P.				P.V.C.			
	90'	45'	22 1/2'	11 1/4'	90'	45'	22 1/2'	11 1/4'
3"	30'	15'	10'	5'	40'	20'	10'	5'
4"	35'	15'	10'	5'	55'	25'	15'	10'
6"	55'	25'	10'	5'	80'	35'	20'	10'
8"	65'	30'	15'	10'	90'	40'	20'	10'
10"	80'	35'	20'	10'	110'	50'	25'	15'
12"	95'	40'	20'	10'	130'	55'	30'	15'
16"	120'	50'	25'	15'	165'	70'	35'	20'
20"	150'	65'	30'	15'	200'	85'	40'	20'
24"	180'	70'	35'	20'	210'	90'	45'	25'
30"	190'	80'	40'	20'	250'	105'	50'	25'
36"	220'	95'	45'	25'	0	0	0	0
42"	245'	105'	50'	25'	0	0	0	0
48"	280'	120'	60'	30'	0	0	0	0

RESTRAINED LENGTHS FOR DEAD ENDS AND BRANCHES FROM TEES SHALL BE THE SAME AS FOR 90° BENDS

PIPE DIAMETER (INCHES)	RESTRAINED LENGTH IN FEET EACH SIDE FOR REDUCER									
	3"	4"	6"	8"	10"	12"	16"	20"	24"	30"
3"	0	0	0	0	0	0	0	0	0	0
4"	0	0	0	0	0	0	0	0	0	0
6"	50'	45'	0	0	0	0	0	0	0	0
8"	75'	70'	40'	0	0	0	0	0	0	0
10"	95'	90'	70'	40'	0	0	0	0	0	0
12"	120'	115'	100'	75'	40'	0	0	0	0	0
16"	160'	155'	140'	125'	100'	70'	0	0	0	0
20"	200'	195'	185'	170'	150'	130'	75'	0	0	0
24"	160'	155'	150'	140'	135'	120'	90'	50'	0	0
30"	195'	190'	185'	180'	170'	160'	120'	105'	70'	0
36"	225'	220'	215'	210'	205'	195'	180'	150'	125'	70'
42"	245'	240'	235'	230'	225'	220'	205'	180'	155'	105'
48"	255'	250'	245'	240'	235'	230'	215'	195'	175'	125'

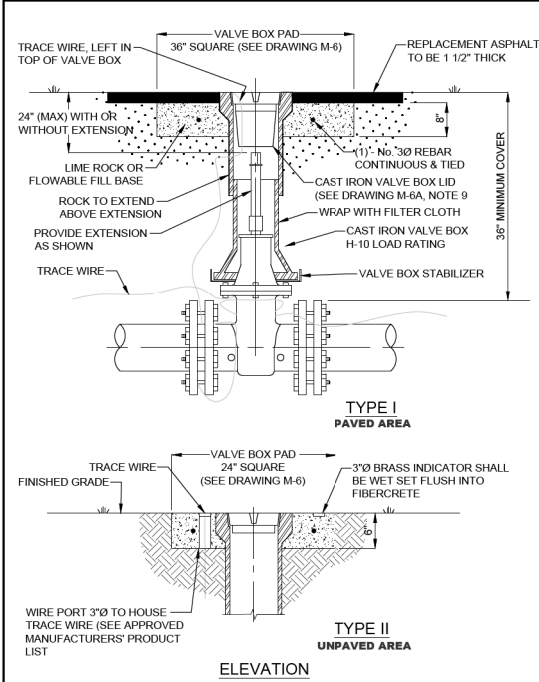
RESTRAINED LENGTHS FOR LARGER DIAMETER PIPES

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
RESTRAINED PIPE LENGTHS AND SCHEDULE NOTES
 DRAWING NO. M-3



- NOTES:**
- NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY, VACUUM TYPE SANITARY SEWER, STORM SEWER OR PRESSURE TYPE SANITARY SEWER, WASTEWATER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE WATER MAIN IS AT LEAST 6", AND PREFERABLY 12", ABOVE OR A MINIMUM OF 12 INCHES BELOW THE OTHER PIPELINE. IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE IF 36" MINIMUM COVER CAN BE MAINTAINED ABOVE THE WATER MAIN AND 6" OF SEPARATION BETWEEN THE WATER MAIN AND THE OTHER PIPELINE.
 - AT UTILITY CROSSINGS, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER, AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER.
 - CONSTRUCT STANDARD CROSSING NOT TO EXCEED 75% OF THE MANUFACTURER'S MAXIMUM JOINT DEFLECTION.
 - OTHER METHODS OF RESTRAINT MAY BE USED AS APPROVED BY IRCDUS IN LIEU OF DEFLECTING THE PIPE AS SHOWN ABOVE.
 - TRACER WIRE SHALL BE INSTALLED ABOVE THE PIPE. (SEE DRAWING, No. M-14)
 - ALL WATER AND SEWER PIPING SHALL BE LOCATED A MINIMUM HORIZONTAL SEPARATION EQUAL TO THE DEPTH OF THE PIPE PLUS THE DIAMETER OF THE PIPE FROM ANY PERMANENT ABOVE GROUND STRUCTURES (I.E. WALLS, TREES, TRANSFORMER PADS, ETC.) AND A MINIMUM HORIZONTAL SEPARATION EQUAL TO FOUR (4) FEET FROM ANY UNDERGROUND UTILITIES (I.E. GAS MAINS, TELEPHONE LINES, CABLE LINES, IRRIGATION MAINS, ETC.)
 - IRCDUS MAY REQUIRE AIR RELEASE VALVES ON EACH SIDE OF A UTILITY CROSSING.

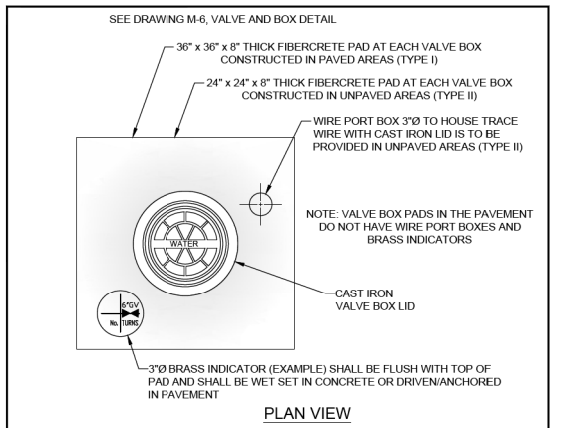
INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
UTILITY CROSSINGS
 DRAWING NO. M-4



INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
VALVE AND BOX DETAIL
 DRAWING NO. M-6

- NOTES:**
- VALVE BOXES SHALL BE CONSTRUCTED PER MANUFACTURERS' SPECIFICATION.
 - ALL VALVE BOXES SHALL BE SHAFT/SCREW TYPE AND CANNOT REST ON THE VALVE.
 - ALL VALVE BOLTS SHALL BE STAINLESS STEEL WITH BRASS NUTS.
 - VALVE MARKERS ARE TO BE INSTALLED ADJACENT TO ALL VALVES IN UNPAVED AREAS AS DIRECTED BY IRCDUS. (SEE DRAWING, No. M-10, VALVE MARKER)
 - ALL VALVES REQUIRE STATE PLANE COORDINATES.
 - TRACE WIRE IS REQUIRED. (SEE DRAWING, No. M-14, TRACE WIRE DETAILS)
 - BLUE REFLECTIVE MARKERS (RPM'S) ARE TO BE LOCATED IN MID-LANE OF ROADWAY FOR ALL HYDRANT VALVES. (SEE DRAWING, No. W-1, FIRE HYDRANTS & VALVE LOCATIONS)
 - REFLECTIVE MARKERS SHALL NOT BE PLACED IN BIKE LANES.
 - VALVE BOX LID LOCATED IN PAVEMENT SHALL BE A MINIMUM 24 LBS. WITH A MINIMUM 6" LONG THROAT.
 - VALVE BOX SHALL COMPLY WITH FDOT STANDARDS AS APPLICABLE.
 - VALVE EXTENSIONS OVER 36" REQUIRE IRCDUS ENGINEERING APPROVAL.
 - VALVE SPACING ON WATER MAINS SHALL NOT EXCEED 1,000' MAXIMUM.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
VALVE AND BOX DETAIL NOTES
 DRAWING NO. M-6 A



- NOTES:**
- VALVE BOX LIDS SHALL BE PAINTED: BLUE - WATER, FIRE HYDRANTS - RED, FORCE MAINS - GREEN, REUSE MAINS - PURPLE, BRINE - BROWN.
 - IN UNPAVED AREAS (SEE DRAWING, No. M-6, TYPE II) A BRASS VALVE INDICATOR IS TO BE PROVIDED. WITH ENGRAVED DIAGRAM OF VALVE LOCATION AND DESCRIPTION. (SEE EXAMPLE ABOVE) INDICATOR SHALL BE FLUSH WITH VALVE PAD.
 - VALVE BOX LID LOCATED IN PAVEMENT SHALL BE A CAST IRON, STAY-PUT COVER, MINIMUM 24 LBS. WITH A MINIMUM 6" LONG THROAT AND SHALL BE MARKED WITH RAISED LETTERS: "WATER", "SEWER", "BRINE", OR "REUSE WATER" AS APPLICABLE.
 - VALVE BOX SHALL COMPLY WITH FDOT STANDARDS AS APPLICABLE.
 - NO VALVE RINGS ARE TO BE USED.
 - IN TYPE I, PAVED AREAS, THE VALVE BOX PAD TOP ELEVATION SHALL BE EVEN WITH THE ROCK GRADE TO ALLOW BOTH LAYERS OF ASPHALT TO COVER THE VALVE BOX PAD WITH THE FINAL ASPHALT LAYER FLUSH WITH THE TOP OF THE VALVE BOX. (SEE DRAWING, No. M-6, VALVE AND BOX DETAIL)

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
VALVE BOX PAD
 DRAWING NO. M-7

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
1/17/2022	Rebecca.Pastir				

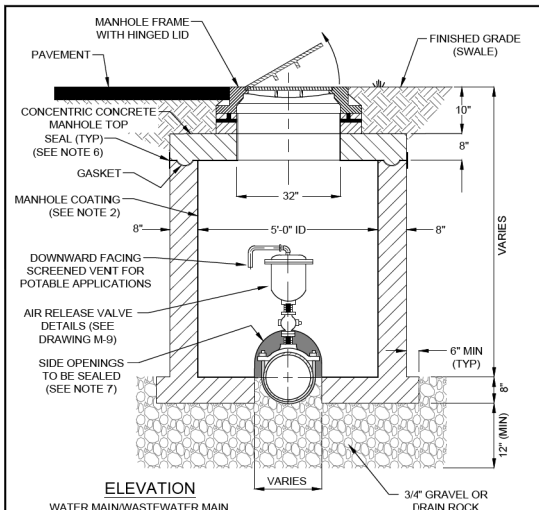
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INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 69TH STREET FROM 66TH AVENUE
 TO SR5/US-1, RESURFACING

INDIAN RIVER COUNTY
 UTILITY DETAILS

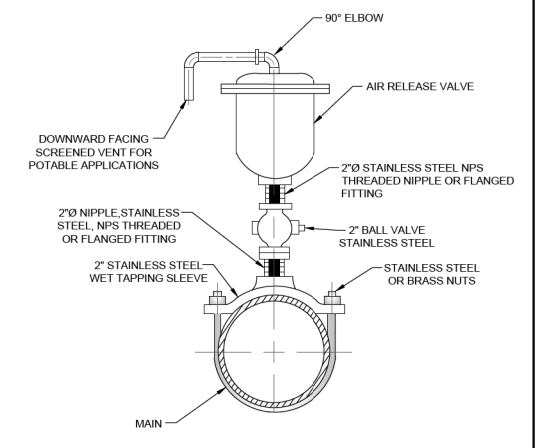
SHEET NO. 152

1639 I.R.CO. Proj. No. THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



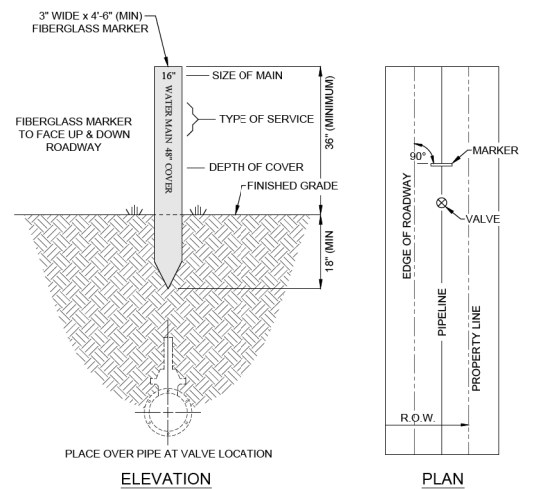
- NOTES:**
- AIR RELEASE VALVE IS TO BE LOCATED INSIDE A CONCRETE MANHOLE WITH HINGED LID, PER IRCUDS APPROVED MANUFACTURERS' PRODUCT LIST.
 - MANHOLES FOR SEWER FORCE MAINS SHALL BE COATED. ALL COATING MATERIAL SHALL BE PER IRCUDS APPROVED MANUFACTURERS' PRODUCT LIST.
 - SEE DRAWING, No. M-9, AIR RELEASE VALVE ABOVE GROUND (AUTOMATIC WATER/WASTEWATER).
 - SEE DRAWING, No. M-14, TRACER WIRE DETAILS.
 - WASTEWATER LIDS SHALL BE VENTED.
 - SEAL SHALL BE USED AT ALL JOINTS. SEE DRAWING, No. S-5, MANHOLE NOTES.
 - OPENING AT BOTH SIDES OF THE MANHOLE TO BE SEALED WITH MATERIALS PER IRCUDS APPROVED MANUFACTURERS' PRODUCT LIST.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
AIR RELEASE VALVE MANHOLE BELOW GROUND
 (AUTOMATIC WATER/WASTEWATER)
 DRAWING NO. **M-8**



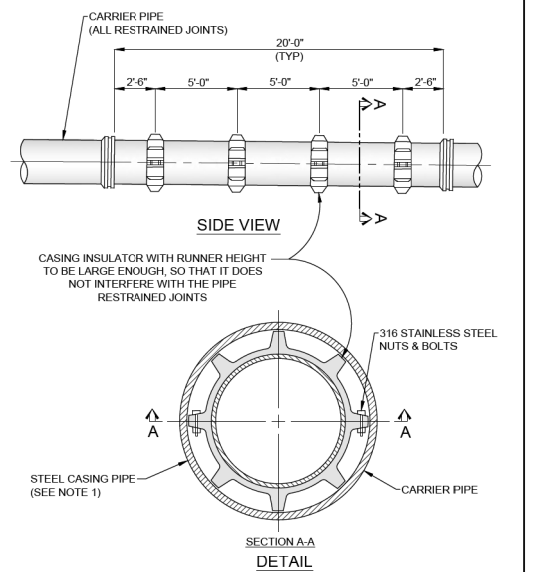
- NOTES:**
- AUTOMATIC AIR RELEASE VALVE TO BE LOCATED ONLY WHERE CONDITIONS MAKE IT INACCESSIBLE OR AS REQUIRED BY THE IRCUDS.
 - AIR RELEASE RISERS TO BE IN A VERTICAL PLUMB POSITION AND PLACED AT SUMMITS IN THE SYSTEM. FOR DIRECTIONAL BORES, AIR RELEASE VALVES ARE TO BE PLACED ON EITHER SIDE OF THE CROSSING.
 - SEE DRAWING, No. M-14, TRACE WIRE DETAILS.
 - FOR AIR RELEASE VALVES LARGER THAN 2" CONSULT IRCUDS.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
AIR RELEASE VALVE ASSEMBLY ABOVE GROUND
 (AUTOMATIC/WASTEWATER)
 DRAWING NO. **M-9**



- NOTES:**
- MARKER TO BE PLACED PERPENDICULAR, AT A 90° ANGLE, TO ROADWAY AND DIRECTLY OVER PIPE, ADJACENT TO VALVE, AS DIRECTED BY IRCUDS.
 - MARKER TO BE USED AT ALL CANAL CROSSINGS AND AS DIRECTED BY IRCUDS.
 - MARKER TO BE PLACED ADJACENT TO WATER MAIN VALVES, FORCE MAIN VALVES RE-USE MAIN VALVES AND BRINE VALVES AS DIRECTED BY IRCUDS.
 - ALL MATERIAL TO BE PER IRCUDS APPROVED MANUFACTURERS' PRODUCT LIST.
 - MARKERS SHALL BE PAINTED: BLUE - WATER, RED - FIRE HYDRANTS, GREEN - FORCE MAINS, PURPLE - RE-USE MAINS, BROWN - BRINE.

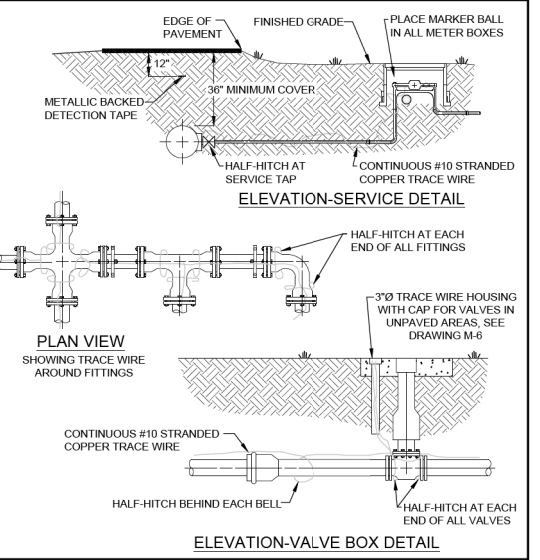
INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
VALVE MARKER
 DRAWING NO. **M-10**



- NOTES:**
- STEEL CASING PIPE SHALL MEET ASTM A139 GRADE B REQUIREMENTS WITH A MINIMUM YIELD STRENGTH OF 35,000 PSI.
 - EACH LENGTH OF STEEL CASING PIPE SHALL BE FIELD WELDED TO PROVIDE WATER PROOF JOINTS.
 - INSULATORS OR SPACERS ARE TO BE PER IRCUDS APPROVED MANUFACTURERS' PRODUCT LIST.

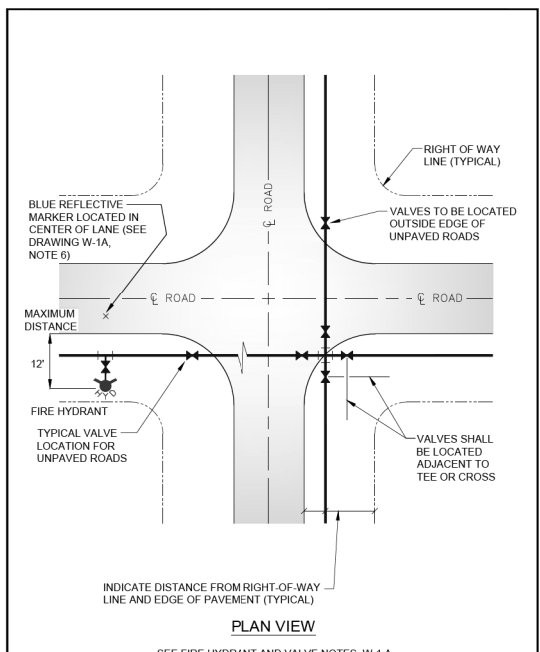
INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
JACK AND BORE DETAIL CASING INSULATOR/SPACER
 DRAWING NO. **M-11**

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- NOTES:**
- TRACE WIRE IS REQUIRED ON ALL PIPES REGARDLESS OF MATERIAL.
 - INCLUDE ALL COST OF MATERIAL AND LABOR TO INSTALL TRACE WIRE IN PRICE OF PIPE.
 - CONTRACTOR IS RESPONSIBLE FOR CONTINUITY THROUGHOUT ENTIRE PROJECT OF ALL TRACE WIRE.
 - ALL CONNECTIONS SHALL BE MADE WITH DIRECT BURY CONNECTORS.
 - ALL MATERIALS ARE TO BE PER IRCUDS APPROVED MANUFACTURERS' PRODUCT LIST.
 - COLOR OF TRACE WIRE SHALL BE: BLUE FOR WATER, GREEN FOR SEWER, AND PURPLE FOR RECLAIMED WATER.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
TRACE WIRE DETAILS
 DRAWING NO. **M-14**



INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
FIRE HYDRANT AND VALVE LOCATIONS
 DRAWING NO. **W-1**

- NOTES:**
- VALVE SPACING ON WATER MAINS SHALL NOT EXCEED 1000'.
 - A MINIMUM COVER OF 36" IS REQUIRED ABOVE THE TOP OF ALL PIPE BELLS.
 - CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF BLUE REFLECTIVE MARKERS (RPM) INDICATING A FIRE HYDRANT. BLUE REFLECTIVE MARKER SHALL BE LOCATED IN THE CENTERLINE OF THE LANE CLOSEST TO THE HYDRANT.
 - DEAD END LINES, VALVES, AND HYDRANTS SHALL BE RESTRAINED.
 - ALL LINES SHALL BE A MINIMUM 10' OFFSET FROM BUILDINGS.
 - REFLECTIVE MARKER (RPM'S) FOR FIRE HYDRANTS SHALL BE BLUE.
 - REFLECTIVE MARKERS SHALL BE AFFIXED TO PAVEMENT WITH A FDOT APPROVED PRODUCT.
 - SEE DRAWINGS, No. M-6, VALVE AND BOX & M-7, VALVE BOX PAD.
 - ALL FIRE HYDRANT VALVE COVERS SHALL BE PAINTED RED. ALL IN-LINE VALVE COVERS SHALL BE PAINTED BLUE.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
FIRE HYDRANT AND VALVE NOTES
 DRAWING NO. **W-1 A**

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

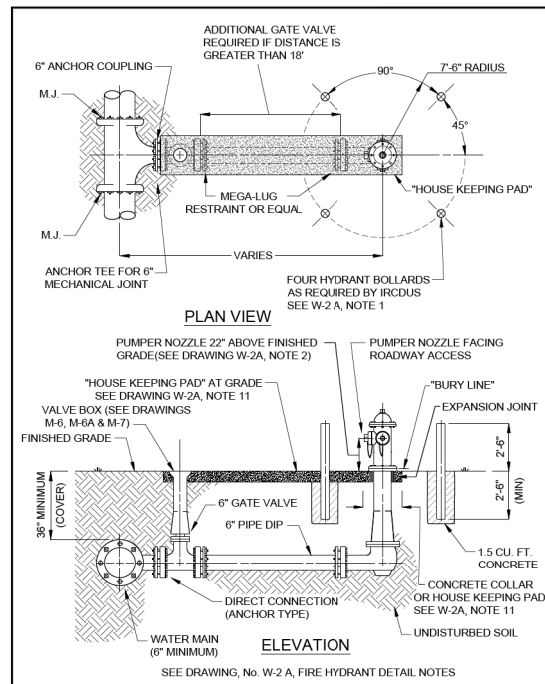
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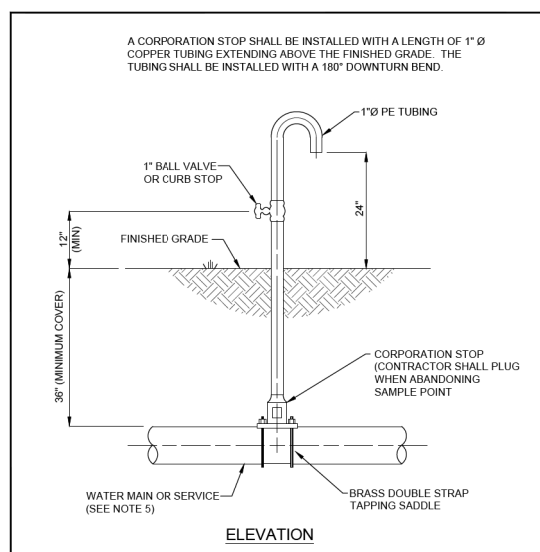
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INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
FIRE HYDRANT DETAIL
DRAWING NO. W-2
MAY 2015

- NOTES:**
- HYDRANT BOLLARD TO BE 4" DIAMETER GALVANIZED STEEL OR DUCTILE IRON PIPE FILLED WITH CONCRETE WHEN REQUIRED BY IRCUDS. GUARDS TO BE PAINTED RED, SAME AS HYDRANTS AND VALVE COVER.
 - THE HYDRANT SHOULD BE SET SUCH THAT THE "BURY LINE" ON THE HYDRANT BARREL IS SET AT FINISHED GRADE OR THAT THE OPERATING NUT OF THE PUMPER NOZZLE IS A MINIMUM OF 22" ABOVE FINISHED GRADE.
 - ALL HYDRANTS SHALL BE TRAFFIC BREAKAWAY TYPE.
 - COMPLETE ANCHORED FIRE HYDRANT ASSEMBLY MAY BE UTILIZED IN LIEU OF ABOVE.
 - FIRE HYDRANT SHOULD BE LOCATED A MINIMUM 3' AND MAXIMUM 12' FROM EDGE OF PAVEMENT WHERE POSSIBLE.
 - ALL MATERIALS ARE TO BE PER IRCUDS APPROVED MANUFACTURERS' PRODUCT LIST.
 - TRACE WIRE TO BE INSTALLED AS PER DRAWING, No. M-14, TRACE WIRE DETAIL. (FOR CLARITY THE TRACE WIRE IS NOT SHOWN IN DRAWING, No. W-2, FIRE HYDRANT DETAILS).
 - MAINTAIN CLEAR ZONE RADIUS OF 7'-6" AROUND HYDRANT PERPENDICULAR TO ROADWAY OR CURB FACE (EXAMPLE MUST BE CLEAR OF SIGNS, TREES, SHRUBS, TRANSFORMERS, UTILITY POLES, ETC.)
 - HYDRANTS AND PROTECTION DEVICES SHALL HAVE CLEARANCES OF 7'-6" IN FRONT AND THE SIDES OF THE FIRE HYDRANT, WITH A 4' MINIMUM CLEARANCE TO THE REAR OF THE HYDRANT UNLESS THE AHJ (AUTHORITY HAVING JURISDICTION) REQUIRES A LARGER CLEAR ZONE.
 - SEE DRAWINGS, No. M-6 VALVE AND BOX DETAIL, M-6A VALVE AND BOX DETAIL NOTES AND M-7 VALVE BOX PAD.
 - HOUSE KEEPING PAD IS REQUIRED. HOUSE KEEPING PAD SHALL BE 6" THICK X 2' WIDE (MINIMUM) AND LOCATED AT FINISHED GRADE. BREAKAWAY FLANGES SHALL BE 2" ABOVE HOUSEKEEPING PAD. (SEE DRAWING, No. W-2, FIRE HYDRANT DETAIL).

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
FIRE HYDRANT DETAIL NOTES
DRAWING NO. W-2 A
MAY 2015



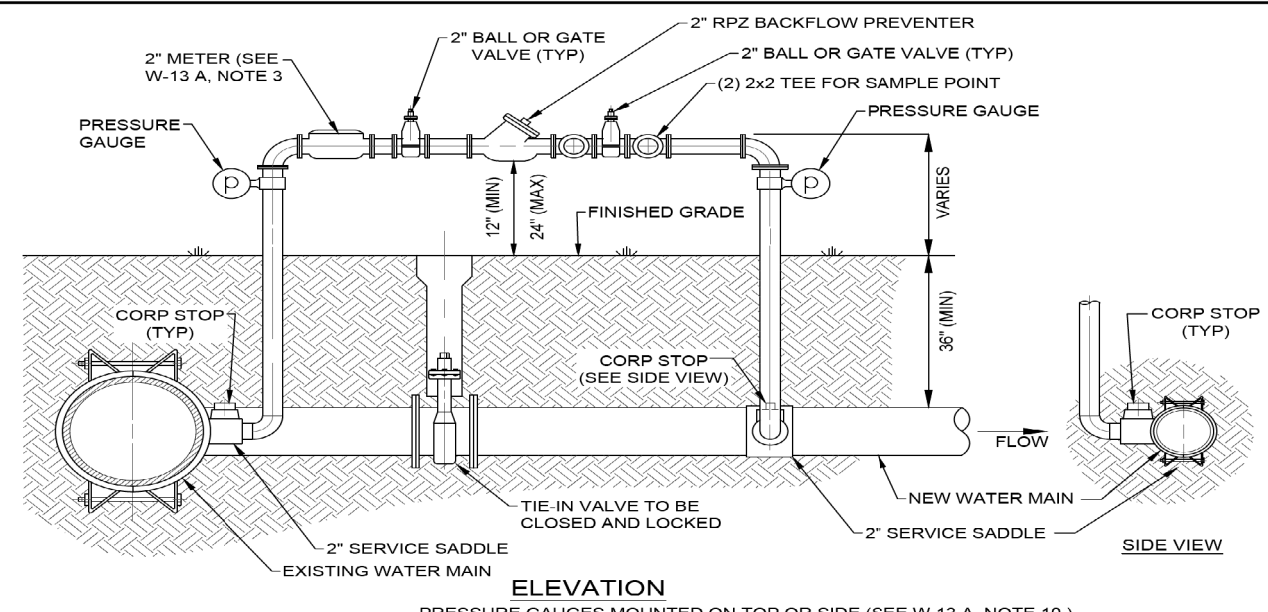
- NOTES**
- TEMPORARY SAMPLING POINT SHALL BE CONSTRUCTED USING A SERVICE LINE WHEN POSSIBLE. SCHEDULE 40 PVC OR OTHER MATERIALS CAN BE USED, AS APPROVED BY IRCUDS.
 - NO SAMPLE POINTS SHALL BE CONSTRUCTED ON FIRE HYDRANTS.
 - CERTIFICATION OF PRESSURE TEST, TWO CONSECUTIVE DAYS OF SUCCESSFUL BACTERIOLOGICAL TESTS, AND CLEARANCE FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION IS REQUIRED BEFORE THE SAMPLE TAP CAN BE ABANDONED.
 - WHEN SAMPLING IS COMPLETE, TUBING SHALL BE REMOVED AND CORPORATION STOP PLUGGED.
 - USE A SERVICE FOR A SAMPLE POINT WHENWHERE POSSIBLE.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
TEMPORARY SAMPLING POINT (BACTERIOLOGICAL)
DRAWING NO. W-8
MAY 2015

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- TEMPORARY JUMPER DETAIL NOTES**
- A TEMPORARY JUMPER CONNECTION IS TO BE USED FOR FILLING ANY NEW WATER MAIN OF ANY SIZE FROM THE EXISTING ACTIVE WATER MAINS AND FOR THE FLUSHING OF NEW MAINS UP TO 6" DIAMETER (2.5 FPS MINIMUM VELOCITY) AND FOR PULLING BACTERIOLOGICAL SAMPLES FROM ANY NEW WATER MAIN OF ANY SIZE.
 - TIE-IN VALVE SHALL BE OPERATED BY IRCUDS PERSONNEL ONLY AND IN THE PRESENCE OF THE ENGINEER OF RECORD.
 - IRCUDS SHALL PROVIDE METER FOR SERVICE AFTER APPLICATION, DEPOSIT AND ALL FEES HAVE BEEN PAID.
 - A 2" TEMPORARY JUMPER TO BE USED UNLESS OTHERWISE DIRECTED BY IRCUDS.
 - ALL INSTALLATION AND MAINTENANCE OF THE TEMPORARY JUMPER CONNECTION AND ASSOCIATED BACKFLOW PREVENTION DEVICE, FITTINGS, VALVES, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - ALL MATERIALS TO BE PER IRCUDS APPROVED MANUFACTURERS' PRODUCT LIST.
 - PIPE AND FITTINGS USED FOR CONNECTING THE NEW PIPE TO THE EXISTING PIPE SHALL BE DISINFECTED WITH LIQUID CHLORINE (SODIUM HYPOCHLORITE) PRIOR TO INSTALLATION IN ACCORDANCE WITH AWWA C651, LATEST EDITION. THE TAPPING SLEEVE AND EXTERIOR OF THE MAIN TO BE TAPPED SHALL BE DISINFECTED BY SPRAYING OR SWABBING PER AWWA C651 SECTION TWO. THE USE OF CHLORINE TABLETS IS STRICTLY PROHIBITED.
 - THE JUMPER CONNECTION SHALL ALSO BE USED TO MAINTAIN A MINIMUM PRESSURE OF 20 PSI IN THE NEW MAINS CONTINUOUSLY AFTER DISINFECTION AND UNTIL FDEP CLEARANCE LETTER IS OBTAINED.
 - PRESSURE GAUGES ARE REQUIRED ON EACH SIDE OF THE 2" GATE OR BALL VALVE.
 - THE CONTRACTOR SHALL PROVIDE DOCUMENTATION DEMONSTRATING THAT THE REDUCED PRESSURE ZONE BACKFLOW PREVENTER (RPZ) IS IN GOOD WORKING ORDER AT THE TIME OF INSTALLATION, AND PROVIDE DOCUMENTATION THAT THE RPZ HAS BEEN TESTED BY A QUALIFIED BACKFLOW TECHNICIAN AS APPROVED BY IRCUDS. THE CONTRACTOR SHALL HAVE EACH RPZ TESTED PRIOR TO USE ON EACH PROJECT.
 - EXCEPT AS REQUIRED TO FLUSH LINES GREATER THAN 6" DIAMETER, THE TIE-IN VALVE SHALL REMAIN CLOSED AND SHALL BE LOCKED IN THE CLOSED POSITION BY THE UTILITY COMPANY. THE TIE-IN VALVE SHALL REMAIN LOCKED CLOSED UNTIL THE NEW SYSTEM HAS BEEN CLEARED FOR USE BY THE FDEP.
 - THE JUMPER CONNECTION SHALL BE MAINTAINED UNTIL CLEARANCE FOR USE FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND OTHER PERTINENT AGENCIES HAS BEEN RECEIVED.
 - UPON RECEIPT OF CLEARANCE FOR USE BY FDEP, THE CONTRACTOR SHALL REMOVE TEMPORARY JUMPER CONNECTION. THE CORPORATION STOPS ARE TO BE CLOSED AND PLUGGED WITH 2" BRASS OR PVC PLUGS.

INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
TEMPORARY JUMPER DETAIL NOTES
DRAWING NO. W-13 A
MAY 2015



INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES
TEMPORARY JUMPER DETAIL
DRAWING NO. W-13 A
SEE DRAWING, No. W-13 A & W-13 B, TEMPORARY JUMPER NOTES
MAY 2015

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
BRIAN A. GOOD, P.E.
P.E. LICENSE NUMBER 56939
445 24th STREET, SUITE 200
VERO BEACH, FL 32960
(772) 794-4100
REGISTRY No. 696

INDIAN RIVER COUNTY
BOARD OF COUNTY COMMISSIONERS
69TH STREET FROM 66TH AVENUE
TO SR5/US-1, RESURFACING

INDIAN RIVER COUNTY
UTILITY DETAILS
SHEET NO. 154