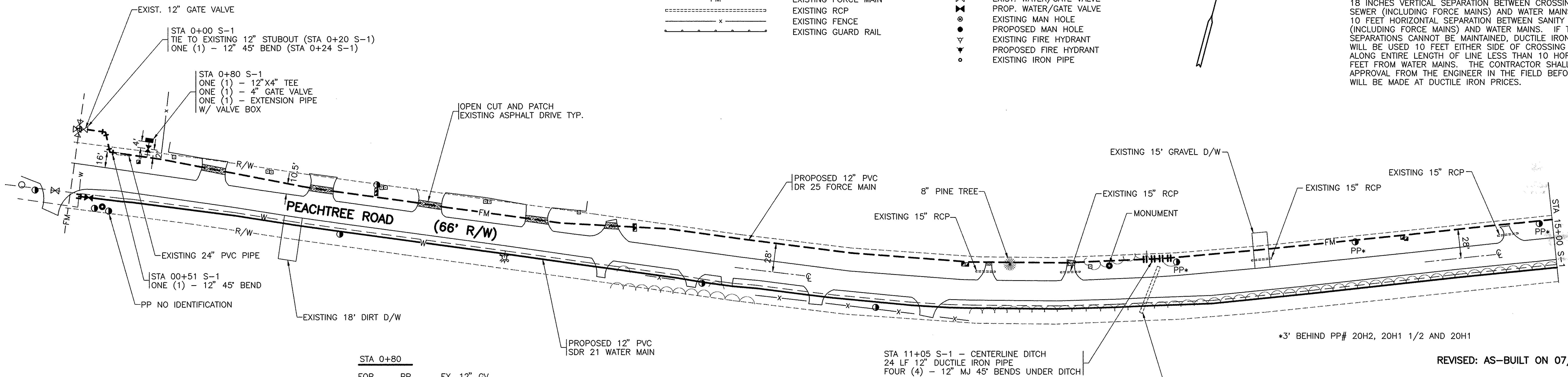


LEGEND

	EXISTING WOOD LINE		EXISTING POWER POLE
	RIGHT OF WAY		EXISTING TELE. PED.
	PROPOSED WATER MAIN		EXISTING CABLE PED.
	PROPOSED FORCE MAIN		BURIED CABLE WARN. POST
	EXISTING WATER MAIN		WATER METER
	EXISTING RCP		EXIST. WATER/GATE VALVE
	EXISTING FENCE		PROP. WATER/GATE VALVE
	EXISTING GUARD RAIL		EXISTING MAN HOLE
			PROPOSED MAN HOLE
			EXISTING FIRE HYDRANT
			PROPOSED FIRE HYDRANT
			EXISTING IRON PIPE

NOTES:

- 1.) THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITY COMPANIES FOR THE EXACT LOCATION OF ALL UNDERGROUND MAINS, CABLES, OR LINES BEFORE CONSTRUCTION BEGINS.
- 2.) PIPE SEPARATION: THE FOLLOWING MINIMUM PIPE SEPARATION WILL BE MAINTAINED: 12 INCHES VERTICAL SEPARATION BETWEEN CROSSING OF SANITARY SEWER AND STORM SEWERS, 18 INCHES VERTICAL SEPARATION BETWEEN CROSSING OF SEWER (INCLUDING FORCE MAINS) AND WATER MAINS, AND 10 FEET HORIZONTAL SEPARATION BETWEEN SANITARY SEWER (INCLUDING FORCE MAINS) AND WATER MAINS. IF THESE SEPARATIONS CANNOT BE MAINTAINED, DUCTILE IRON PIPE WILL BE USED 10 FEET EITHER SIDE OF CROSSING AND ALONG ENTIRE LENGTH OF LINE LESS THAN 10 HORIZONTAL FEET FROM WATER MAINS. THE CONTRACTOR SHALL RECEIVE APPROVAL FROM THE ENGINEER IN THE FIELD BEFORE PAYMENT WILL BE MADE AT DUCTILE IRON PRICES.



	STA 0+80		
	EOP	PP	EX. 12" GV
4" GATE VALVE	16'0"	65'0"	68'6"
4" PUMP OFF	20'0"	69'0"	68'0"

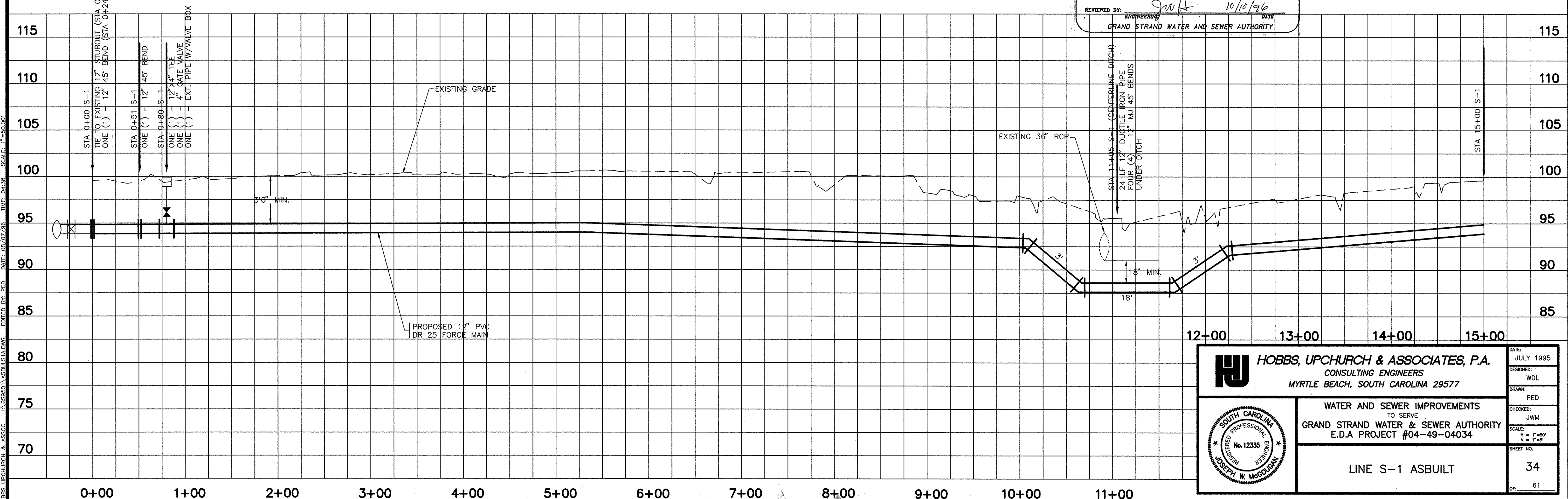
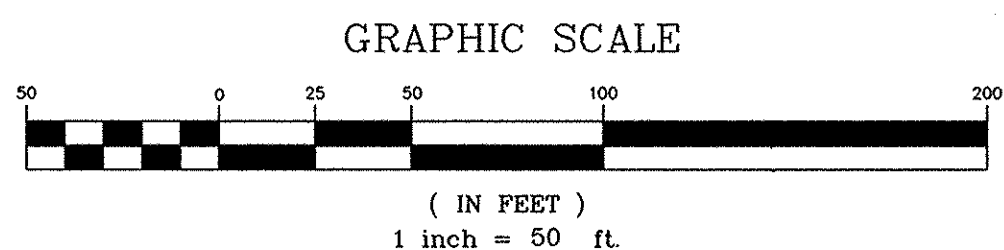
LINE S-1

THESE DRAWINGS REFLECT
AS-BUILT
CONDITIONS

REVIEWED BY: *John Hard* DATE: *10/20/96*

REVIEWED BY: *JWH* DATE: *10/10/96*

GRAND STRAND WATER AND SEWER AUTHORITY



HOBBS, UPCHURCH & ASSOCIATES, P.A.
CONSULTING ENGINEERS
MYRTLE BEACH, SOUTH CAROLINA 29577

WATER AND SEWER IMPROVEMENTS
TO SERVE
GRAND STRAND WATER & SEWER AUTHORITY
E.D.A. PROJECT #04-49-04034

LINE S-1 ASBUILT

DATE: JULY 1995
DESIGNED: WDL
DRAWN: PED
CHECKED: JWM
SCALE: H = 1"=50'
V = 1"=5'
SHEET NO. 34
OF 61

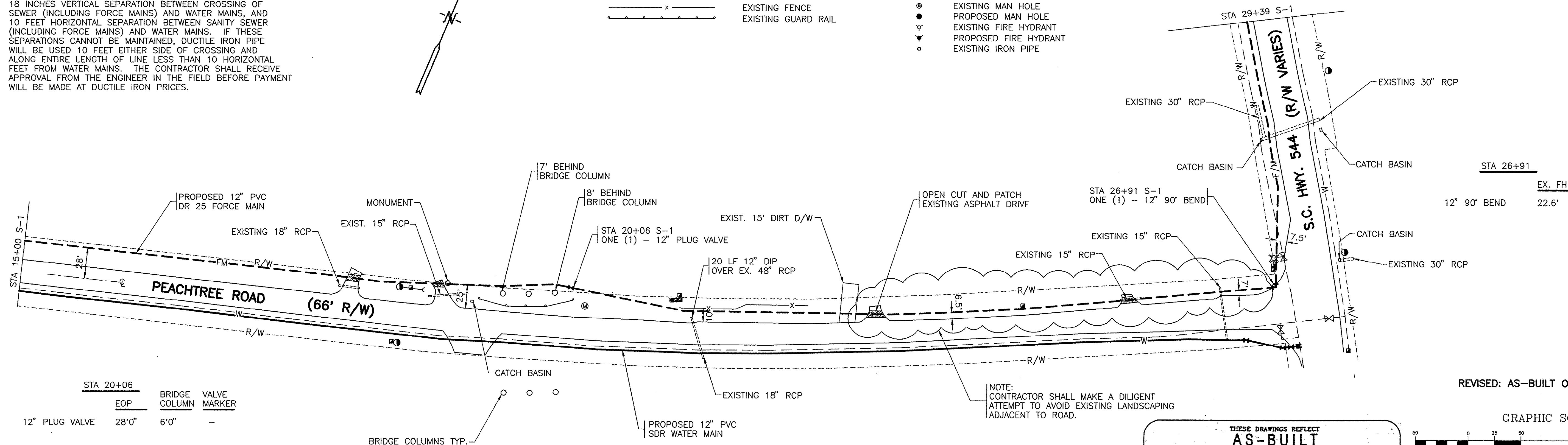
REGISTERED PROFESSIONAL ENGINEER
SOUTH CAROLINA
No. 12335
JOSEPH W. McGOUGH

NOTES:

- 1.) THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITY COMPANIES FOR THE EXACT LOCATION OF ALL UNDERGROUND MAINS, CABLES, OR LINES BEFORE CONSTRUCTION BEGINS.
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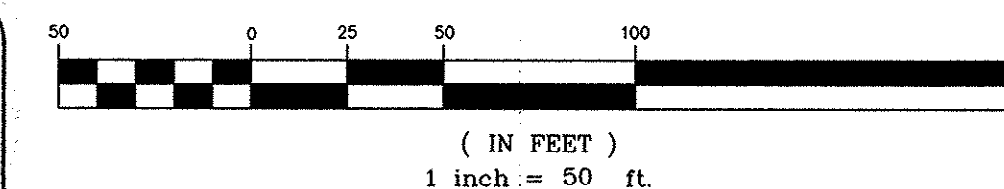
LEGEND

---	R/W	EXISTING WOOD LINE
---	W	RIGHT OF WAY
---	FM	PROPOSED WATER MAIN
---	W	PROPOSED FORCE MAIN
---	FM	EXISTING WATER MAIN
---	FM	EXISTING FORCE MAIN
---	---	EXISTING RCP
---	x	EXISTING FENCE
---	---	EXISTING GUARD RAIL
●	---	EXISTING POWER POLE
■	---	EXISTING TELE. PED.
■	---	EXISTING CABLE PED.
■	---	BURIED CABLE WARN. POST
○	---	WATER METER
⊗	---	EXIST. WATER/GATE VALVE
⊗	---	PROP. WATER/GATE VALVE
⊗	---	EXISTING MAN HOLE
⊗	---	PROP. MAN HOLE
⊗	---	EXISTING FIRE HYDRANT
⊗	---	PROP. FIRE HYDRANT
⊗	---	EXISTING IRON PIPE



REVISED: AS-BUILT ON 07/31/96

GRAPHIC SCALE



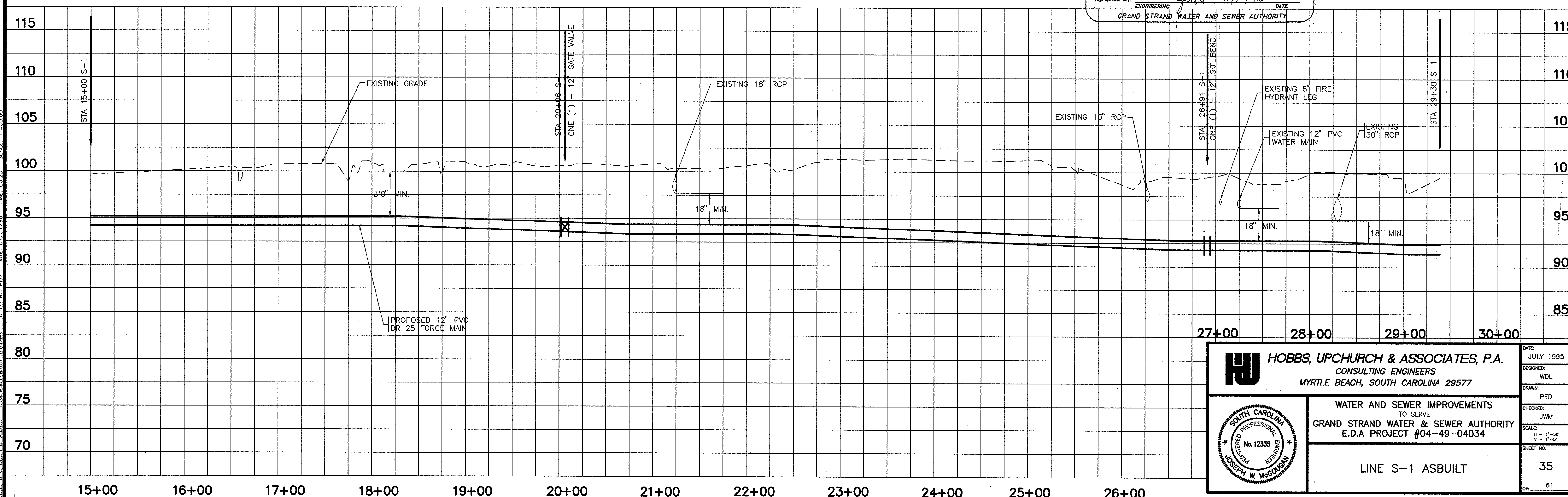
LINE S-1

THESE DRAWINGS REFLECT
AS-BUILT
CONDITIONS

REVIEWED BY: *Jerry H. H. 10/20/86* DATE

REVIEWED BY: *Jeff 10/10/96* DATE

GRAND STRAND WATER AND SEWER AUTHORITY



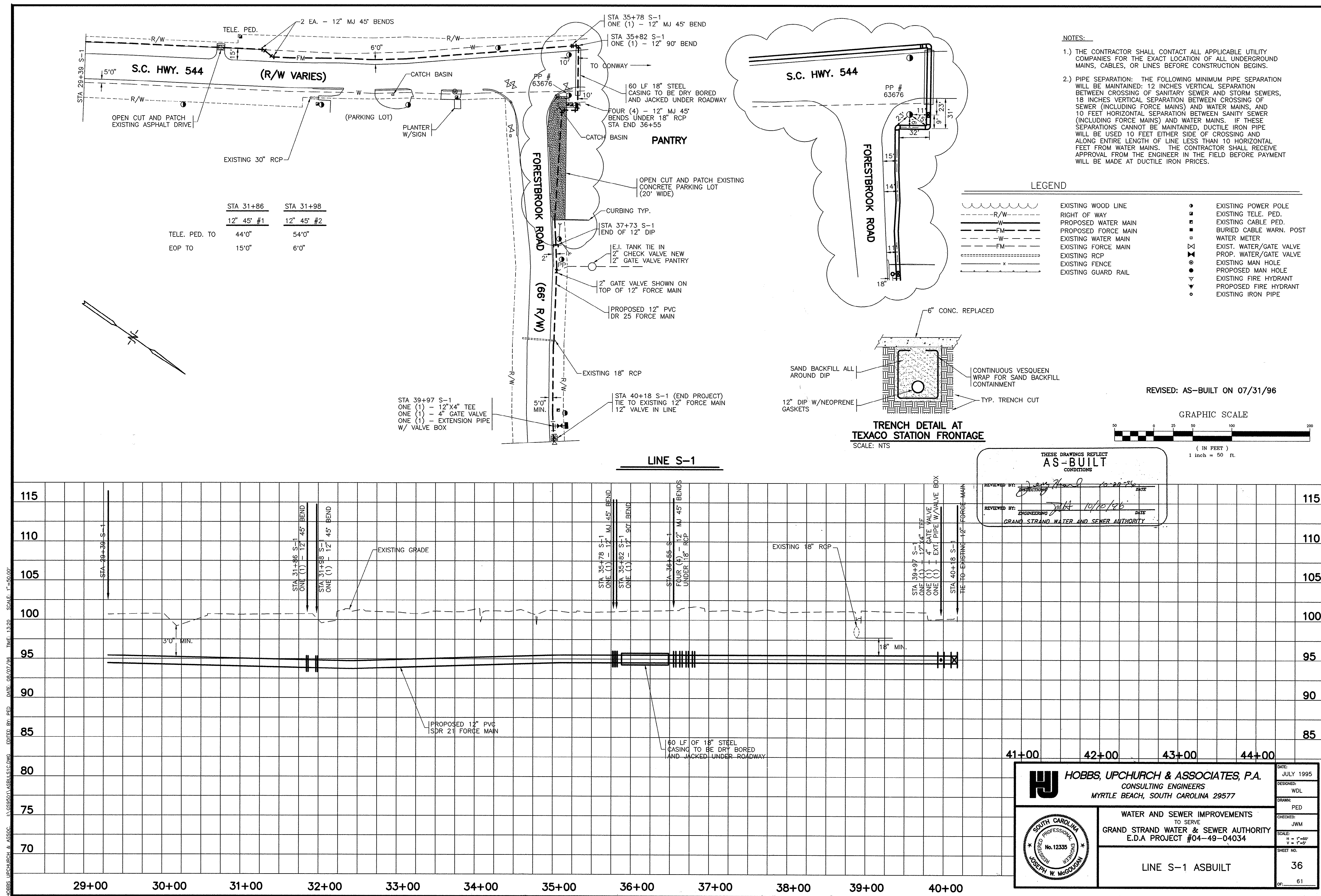
HOBBS, UPCHURCH & ASSOCIATES, P.A.
CONSULTING ENGINEERS
MYRTLE BEACH, SOUTH CAROLINA 29577

DATE: JULY 1995
DESIGNED: WDL
DRAWN: PED
CHECKED: JWM
SCALE: H = 1"=50'
V = 1"=20'
SHEET NO. 35

WATER AND SEWER IMPROVEMENTS
TO SERVE
GRAND STRAND WATER & SEWER AUTHORITY
E.D.A PROJECT #04-49-04034

LINE S-1 ASBUILT

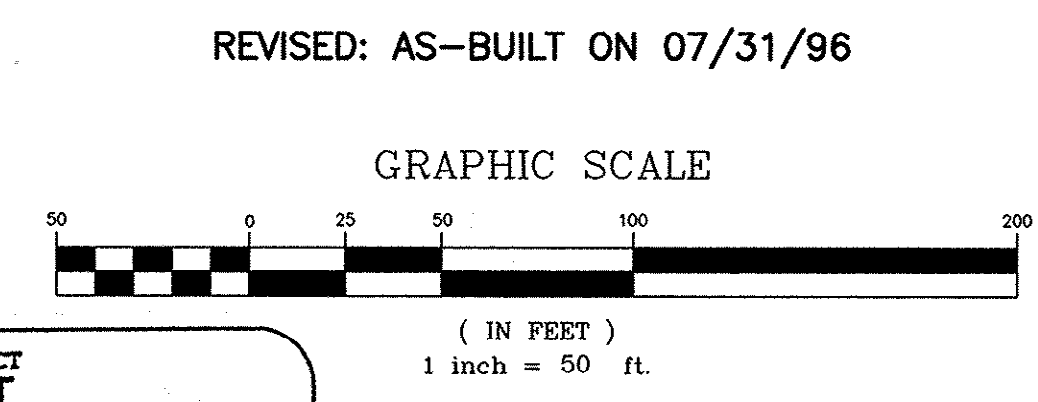
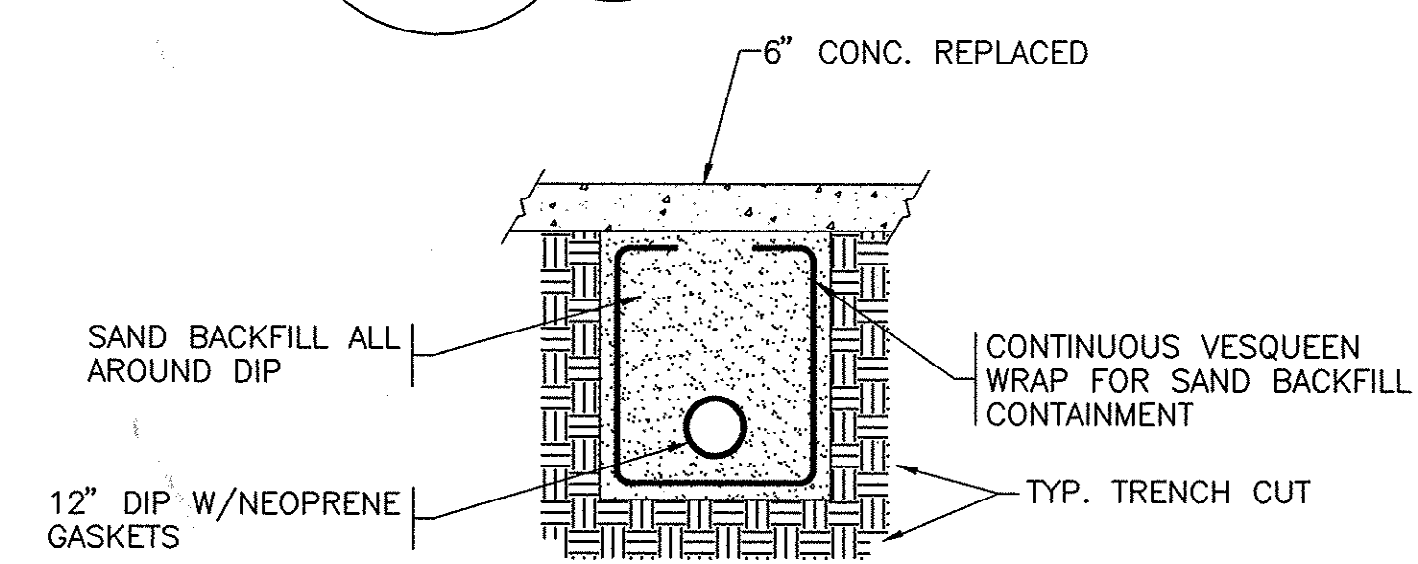
OFF: 61



	STA 31+86	STA 31+98
TELE. PED. TO	44'-0"	54'-0"
EOP TO	15'-0"	6'-0"

- NOTES:
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LEGEND	
	EXISTING WOOD LINE
	RIGHT OF WAY
	PROPOSED WATER MAIN
	PROPOSED FORCE MAIN
	EXISTING WATER MAIN
	EXISTING FORCE MAIN
	EXISTING RCP
	EXISTING FENCE
	EXISTING GUARD RAIL
	EXISTING POWER POLE
	EXISTING TELE. PED.
	EXISTING CABLE PED.
	BURIED CABLE WARN. POST
	WATER METER
	EXIST. WATER/GATE VALVE
	PROP. WATER/GATE VALVE
	EXISTING MAN HOLE
	PROPOSED MAN HOLE
	EXISTING FIRE HYDRANT
	PROPOSED FIRE HYDRANT
	EXISTING IRON PIPE

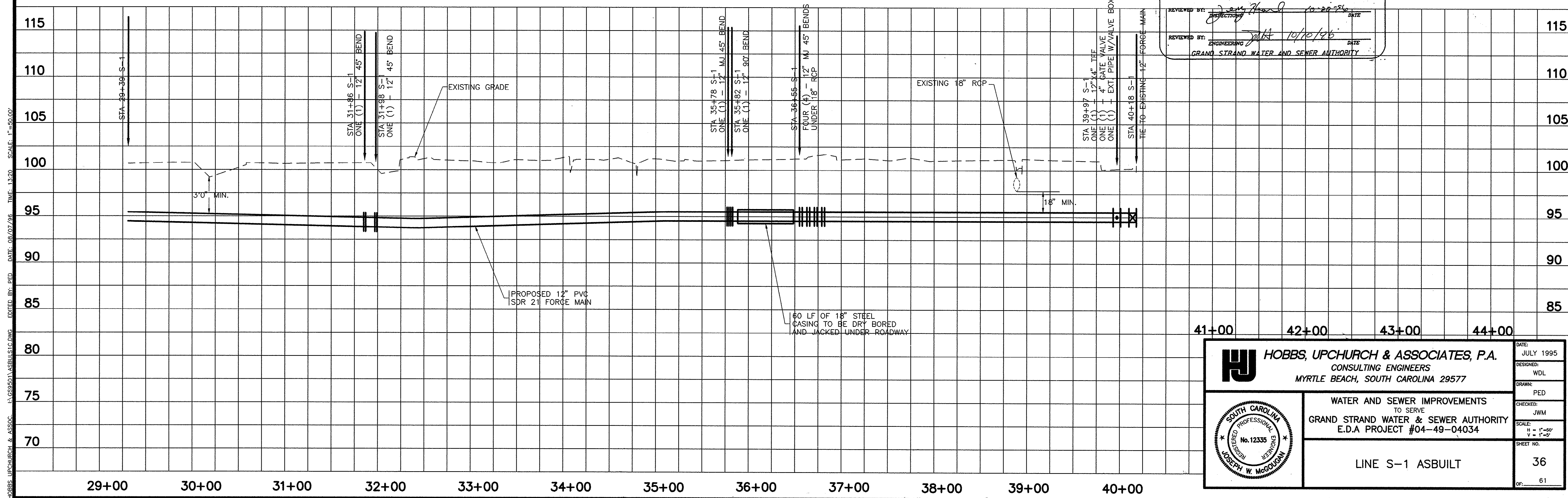


THESE DRAWINGS REFLECT
AS-BUILT
CONDITIONS

REVIEWED BY: *[Signature]* DATE: *10-20-96*

REVIEWED BY: *[Signature]* DATE: *10/20/96*

GRAND STRAND WATER AND SEWER AUTHORITY



HOBBS, UPCHURCH & ASSOCIATES, P.A.
CONSULTING ENGINEERS
MYRTLE BEACH, SOUTH CAROLINA 29577

DATE: JULY 1995
DESIGNED: WDL
DRAWN: PED
CHECKED: JWM
SCALE: H = 1"=50'
V = 1"=20'
SHEET NO. 36
OF 61

WATER AND SEWER IMPROVEMENTS
TO SERVE
GRAND STRAND WATER & SEWER AUTHORITY
E.D.A PROJECT #04-49-04034

LINE S-1 ASBUILT

HOBBS, UPCHURCH & ASSOCIATES, P.A. 1320 DATE: 08/02/96 SCALE: 1"=50.00'