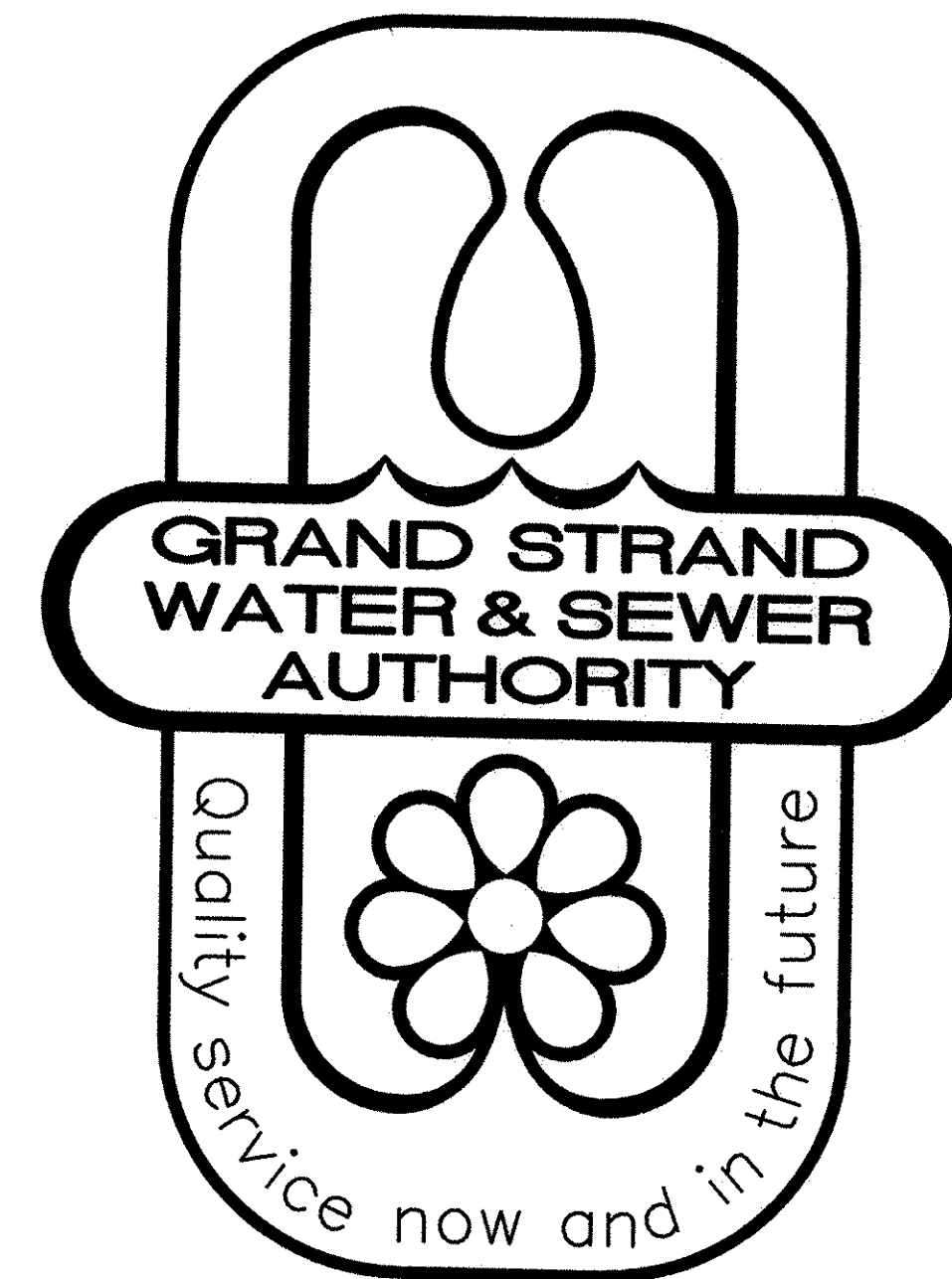
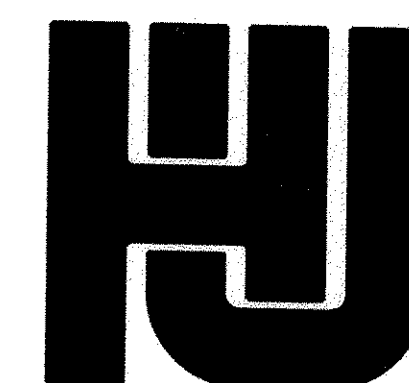
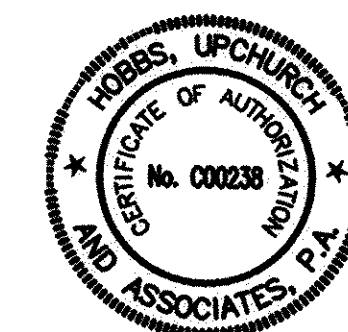
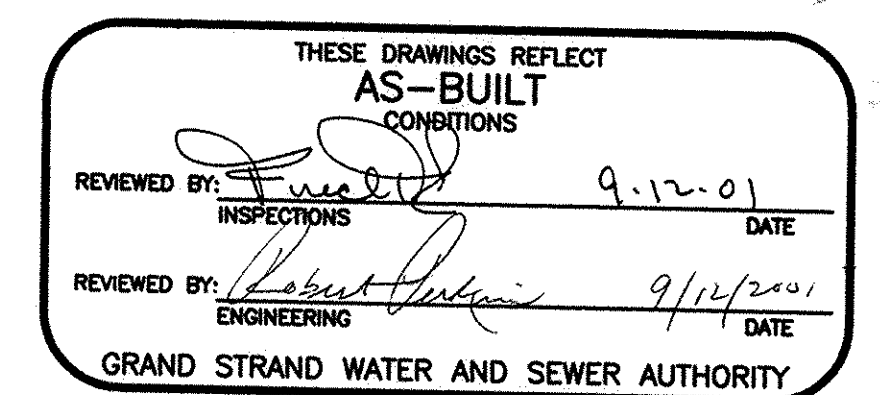
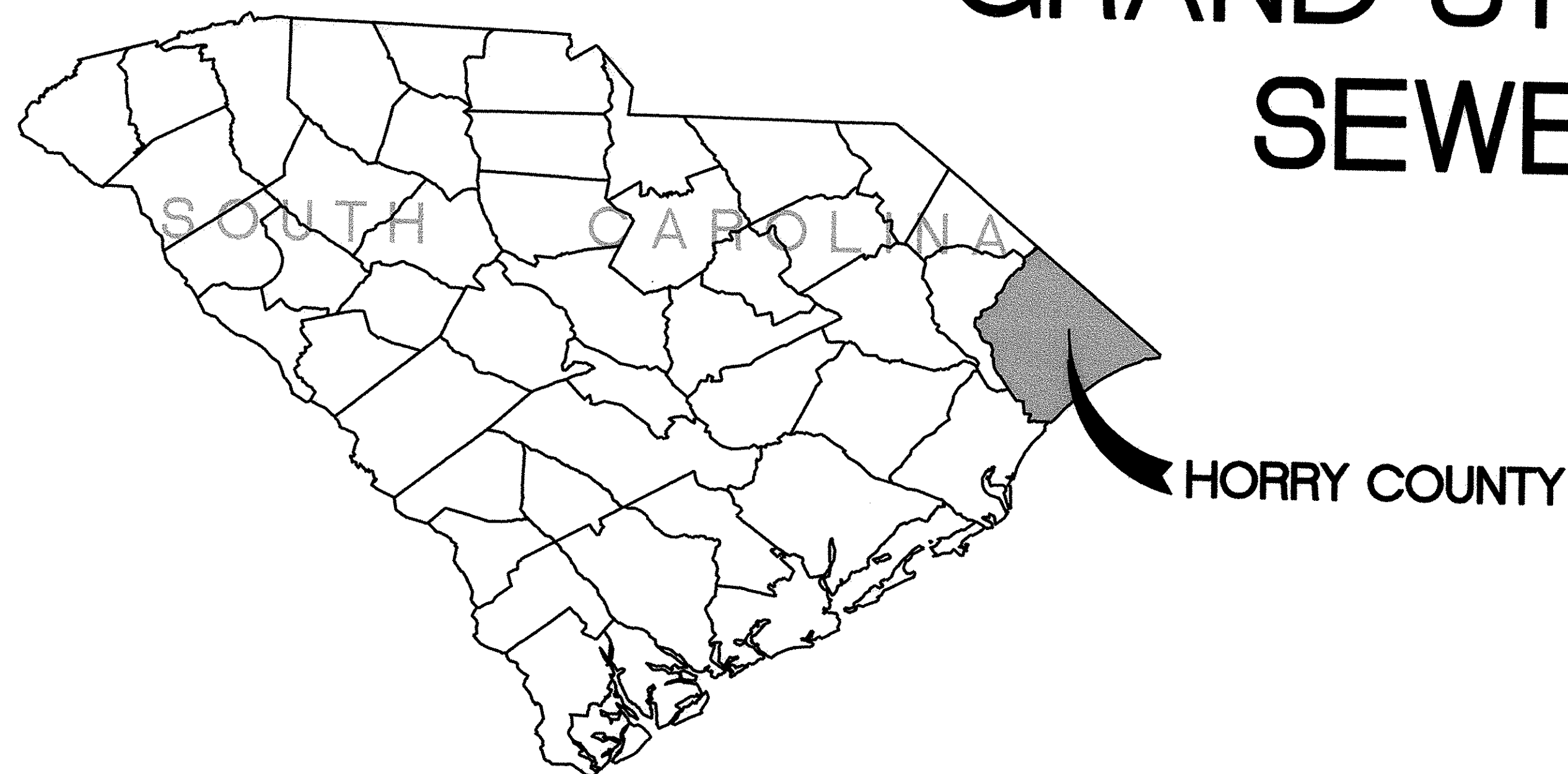


EAST TRANSMISSION WATER MAIN

PROJECT NO. 450-01



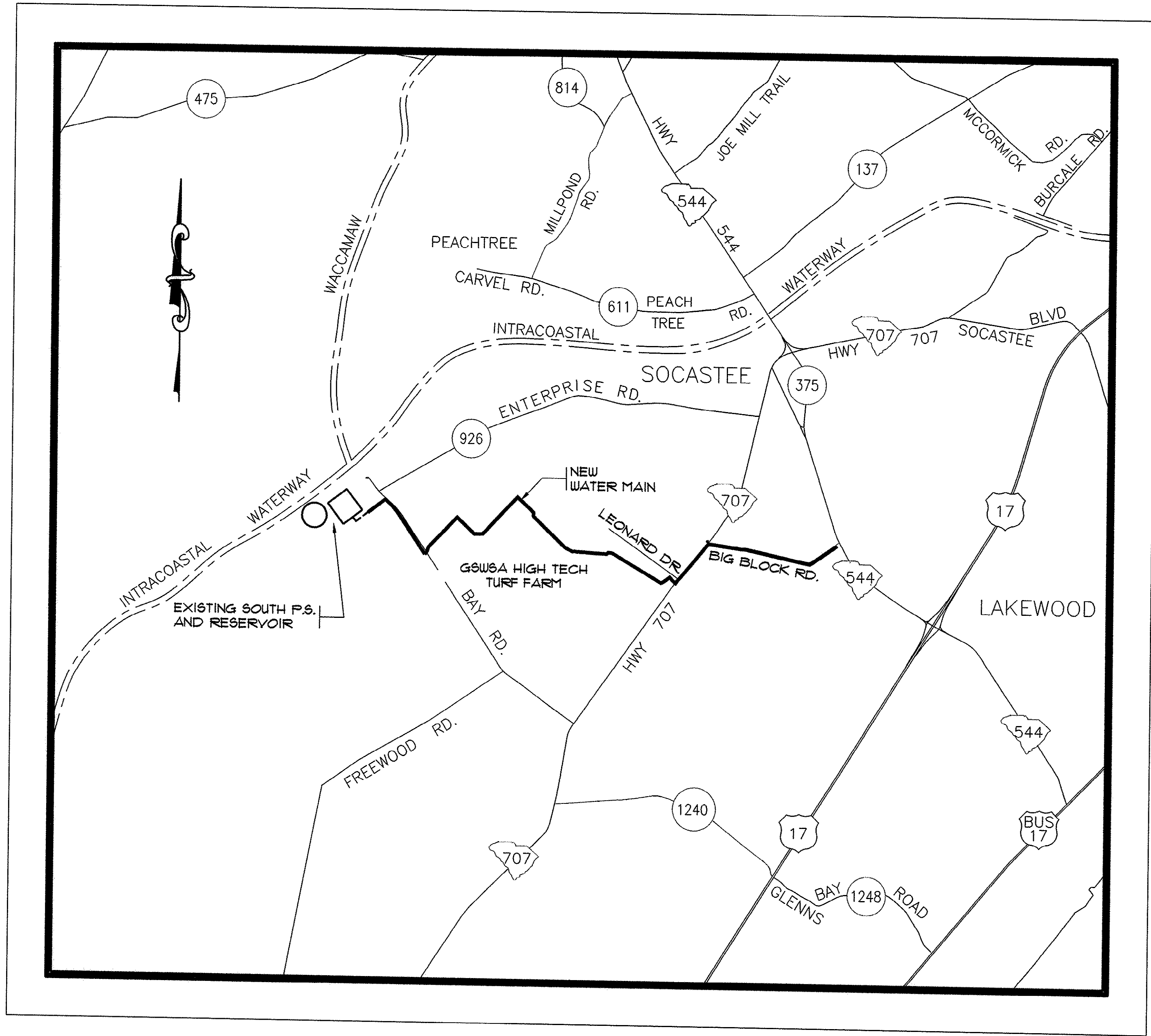
GRAND STRAND WATER AND SEWER AUTHORITY



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CONSULTING ENGINEERS

MYRTLE BEACH, SOUTH CAROLINA 29577



VICINITY MAP
N.T.S.

INDEX OF SHEETS

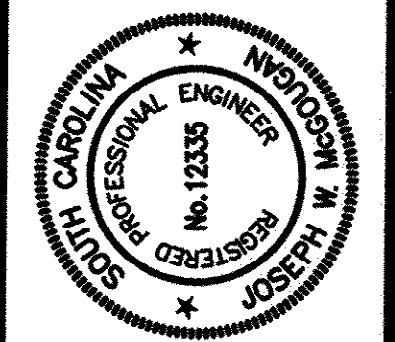
- 1 - COVER SHEET
- 2 - VICINITY MAP AND INDEX
- 3 - LAYOUT MAP
- 4 - LAYOUT MAP
- 5-23 - PLAN AND PROFILE SHEETS
- 24 - WATER DETAILS
- 25 - WATER DETAILS
- 26 - WATER DETAILS
- 27 - WATER DETAILS
- 28 - EROSION CONTROL DETAILS

GENERAL NOTES:

- 1) WORK WITHIN PUBLIC RIGHT-OF-WAYS OR PRIVATE EASEMENTS SHALL BE ACCOMPLISHED BY THE CONTRACTOR ACCORDING TO THE REQUIREMENTS OR CONDITIONS OF THE ENCROACHMENT PERMIT OR OTHER LEGAL DOCUMENTS AS THOUGH DOCUMENTS WERE ISSUED IN THE CONTRACTORS NAME. THE CONTRACTOR SHALL MAINTAIN COPIES OF THESE DOCUMENTS ON THE SITE AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF PUBLIC RIGHT-OF-WAYS DURING CONSTRUCTION OF THE PROJECT AND UNTIL THE CONTRACTOR OBTAINS AND DELIVERS TO THE OWNER A WRITTEN SIGN-OFF FROM HORRY COUNTY AND/OR THE S.C.D.O.T. THAT THE PUBLIC AGENCY HAS ACCEPTED THE RIGHT-OF-WAY BACK FOR MAINTENANCE. FINAL PAYMENT AND RELEASE OF RETAINAGE WILL NOT BE MADE TO THE CONTRACTOR UNTIL WRITTEN SIGN-OFF HAS BEEN OBTAINED FROM THE APPROPRIATE PUBLIC AGENCY AND PROVIDED TO THE OWNER.
- 2) PROVISIONS SHALL BE MADE TO PREVENT EROSION AND SILTATION CAUSED BY CONSTRUCTION. TEMPORARY GRASSING, HAY BALES, SILT FENCES OR OTHER METHODS, AS CALLED FOR ON THE PLAN OR THAT MAY BE REQUIRED, SHALL BE USED.
- 3) DISTANCES SHOWN ON THE PLAN FOR THE DESIGNATED LOCATION OF THE PROPOSED LINE WHICH MAY BE FROM THE EDGE OF PAYMENT OR OTHERWISE SHOWN IS INTENDED ONLY AS A DESIRED LOCATION FOR THIS INSTALLATION. HOWEVER SHOULD A CONFLICT OCCUR AND/OR DUE TO UNFORESEEN OR OTHER UTILITIES DISCOVERED THAT ARE IN CONFLICT, IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE FOR ANY AND ALL INSTALLATIONS AND DEVIATIONS OF ALIGNMENT NECESSARY TO ACHIEVE A CHANGED AND SATISFACTORY LOCATION FOR THIS INSTALLATION. THE INSTALLATION COSTS THAT MAY OCCUR DUE TO ALIGNMENT CHANGES ARE CONSIDERED TO BE A PART OF THE PRICE SUBMITTED FOR PIPE INSTALLATION AND NO ADDITIONAL COMPENSATION IS ALLOWED. THE FINAL LOCATION SELECTED FOR INSTALLATION BY THE CONTRACTOR OTHER THAN WHAT IS SHOWN ON THE PLANS SHALL BE FIRST APPROVED BY THE AUTHORITY PRIOR TO PROCEEDING WITH THE WORK AND ACTUAL INSTALLATION.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR VERIFYING THE LOCATION AND EXISTENCE OF ALL UNDERGROUND UTILITIES BOTH PRIOR TO THE BID SUBMITTAL AND DURING CONSTRUCTION. LOCATION OF UTILITIES AS TENTATIVELY SHOWN ON THE PLANS, WHETHER FULLY AND CORRECTLY LOCATED OR PARTIALLY AND/OR INCORRECTLY LOCATED OR OMITTED WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OR LIABILITY FOR PROVIDING FOR ANY DEVIATION FROM THE PLANNED LOCATION AND FOR THE COMPLETE INSTALLATION AND/OR DAMAGE TO OTHER UTILITIES. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING LOCAL UTILITIES FOR ASSISTANCE IN LOCATING UTILITIES BOTH PRIOR TO BID PROPOSALS AND DURING INSTALLATIONS. THE CONTRACTOR MUST FULLY COMPLY WITH THE SOUTH CAROLINA UNDERGROUND UTILITIES DAMAGE PREVENTION ACT, GENERAL STATUTES 58-35 SECTIONS 20 THROUGH 120 AND ALL APPLICABLE STATUTES AND STATE APPROVED REQUIREMENTS.
- 4) WHEN THE CONTRACTOR IS UNABLE TO COMPLETE HIS WORK AS SHOWN ON THE PLANS BECAUSE OF AN EXISTING UTILITY, CONTRACTOR SHALL STAKE LOCATION OF THE UTILITY PRIOR TO PROCEEDING AND CONTACT THE ENGINEER.
- 5) THE CONTRACTOR SHALL NOTIFY ALL PUBLIC AGENCIES, THE OWNER, THE ENGINEER AND ALL OTHER PARTIES WHEN CONSTRUCTION IS TO COMMENCE SO THAT INSPECTIONS AND OTHER SITE VISITS MAY BE SCHEDULED.
- 6) DATA REQUIRED FOR PREPARATION OF AS-BUILT DRAWINGS SHALL BE OBTAINED BY THE CONTRACTOR AT THE TIME OF INSTALLATION. THIS DATA SHALL BE ACCUMULATED BY THE CONTRACTOR AND COORDINATED WITH THE PROJECT INSPECTOR ON A DAILY BASIS DURING THE CONSTRUCTION PERIOD AND BE SUBMITTED TO THE PROJECT INSPECTOR IN A NEAT AND LEGIBLE MANNER AFTER COMPLETION OF THE PROJECT.
- 7) ALL WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE FEDERAL SOUTH CAROLINA AND LOCAL ORDINANCES, REGULATIONS, SPECIFICATIONS AND PERMITS.
- 8) SPECIAL NOTE: PRIOR TO ANY EXCAVATION, THE CONTRACTOR IS REQUIRED TO CONTACT HORRY TELEPHONE COOPERATIVE FOR CABLE LOCATIONS AT 365-2151. THIS PROJECT HAS SEVERAL CABLES OFF EDGE OF PAVEMENT THAT THE CONTRACTOR WILL BE REQUIRED TO LOCATE AND EXPOSE PRIOR TO THE INSTALLATION OF ANY MATERIALS.
- 9) REPLACE IN KIND ALL AREAS WHERE PROPERTY OWNER HAS DEVELOPED SPECIAL GRASS, TURF, FENCES, SHRUBS OR LANDSCAPING. ALL DISTURBED AREAS ARE TO BE RAKED AND SEEDED OR TURF REPLACED IN KIND WHERE TURF EXISTS. ITEMS LISTED HEREIN ARE CONSIDERED TO BE INCLUDED IN THE BID ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 10) FINAL LOCATIONS FOR ALL BUTTERFLY VALVES, FIRE HYDRANTS AND AIR RELEASE VALVES TO BE DETERMINED BY G.S.W.A. PRIOR TO INSTALLATION.

THESE DRAWINGS REFLECT	
AS-BUILT	
CONDITIONS	
REVIEWED BY: <i>[Signature]</i>	DATE: 9.12.01
INSPECTIONS	
REVIEWED BY: <i>[Signature]</i>	DATE: 9/12/2001
ENGINEERING	
GRAND STRAND WATER AND SEWER AUTHORITY	

REVISIONS	DATE	BY
DESCRIPTION	8/15/00	JUD
WM-1 REALIGNED	8/31/00	WDL
WM-1 REALIGNED	7/16/01	CAR
AS-BUILT		
STYL.		



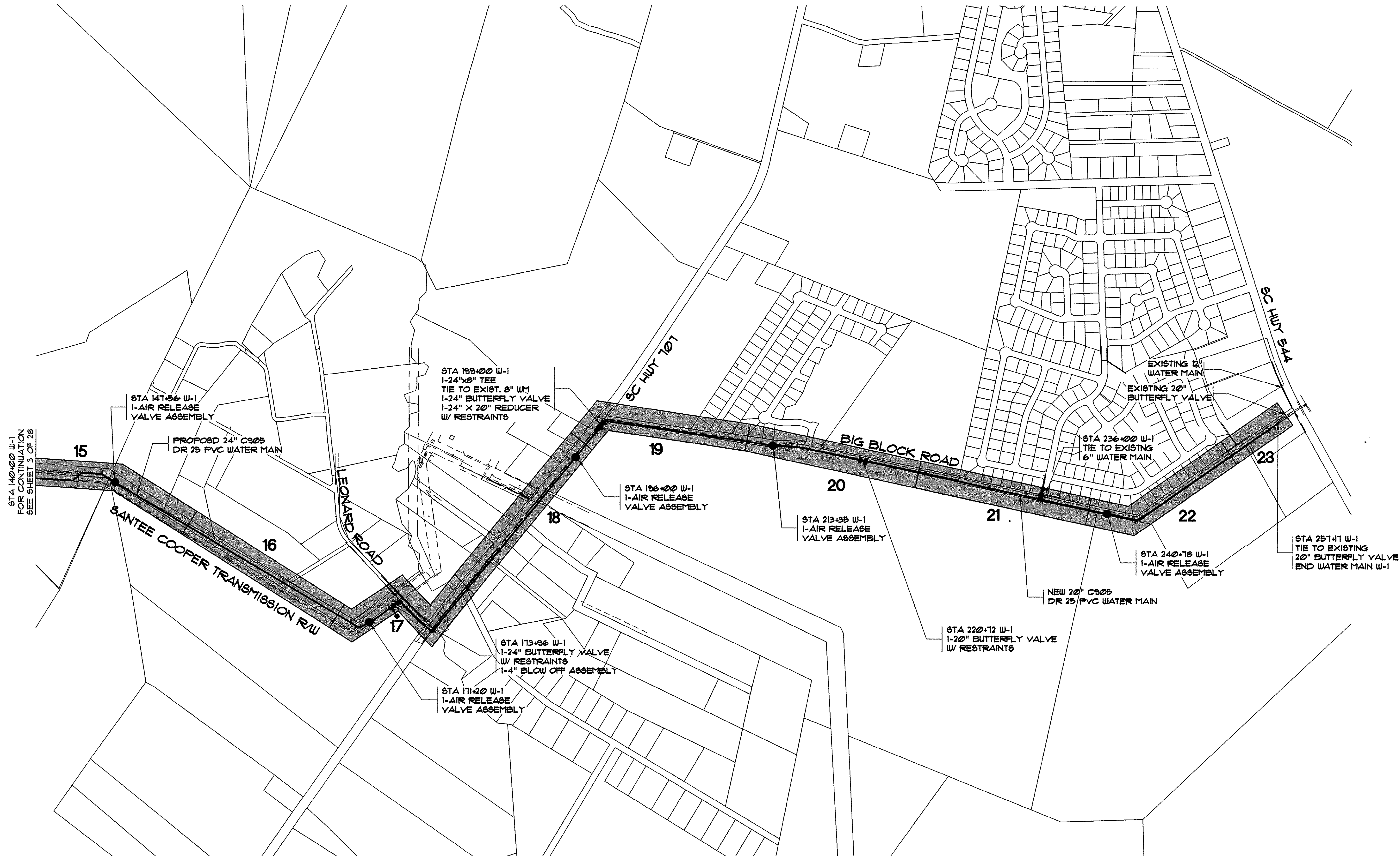
HOBBS, UPCHURCH & ASSOCIATES, P.A.
CONSULTING ENGINEERS
MYRTLE BEACH, SOUTH CAROLINA 29577

VICINITY MAP
AND INDEX

EAST TRANSMISSION
WATER MAIN
GRAND STRAND WATER
AND SEWER AUTHORITY

DATE:	DEC. 1999
DESIGNED:	WDL
DRAWN:	KLM
CHECKED:	JWM
SCALE:	AS SHOWN
SHEET NO.	2
OF:	28

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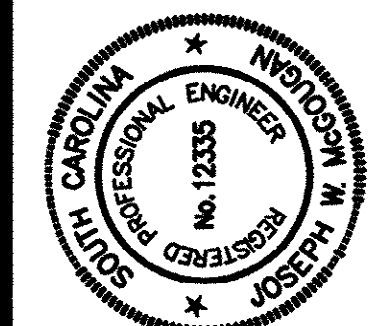


LEGEND

- NEW WATER MAIN
- NEW BUTTERFLY VALVE
- NEW AIR RELEASE VALVE

LAYOUT MAP
1" = 400'

THESE DRAWINGS REFLECT	
AS-BUILT	
CONDITIONS	
REVIEWED BY: <i>[Signature]</i>	DATE: 9-12-01
INSPECTIONS	
REVIEWED BY: <i>[Signature]</i>	DATE: 9/14/2001
ENGINEERING	
GRAND STRAND WATER AND SEWER AUTHORITY	



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CONSULTING ENGINEERS
MYRTLE BEACH, SOUTH CAROLINA 29577

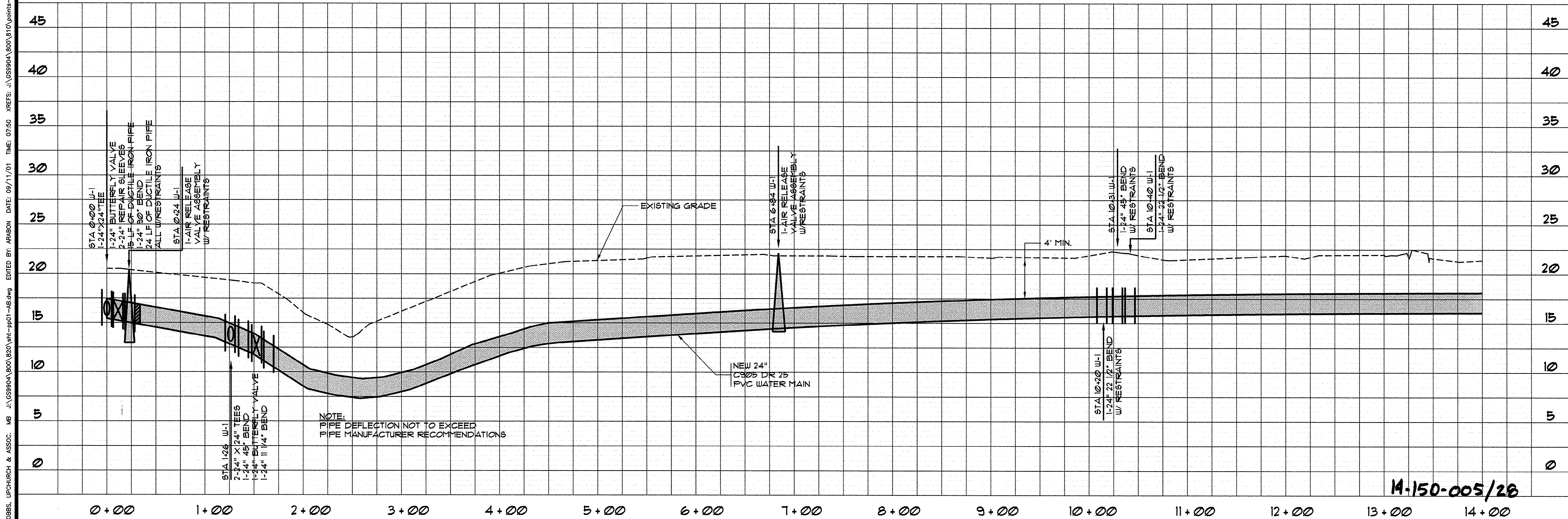
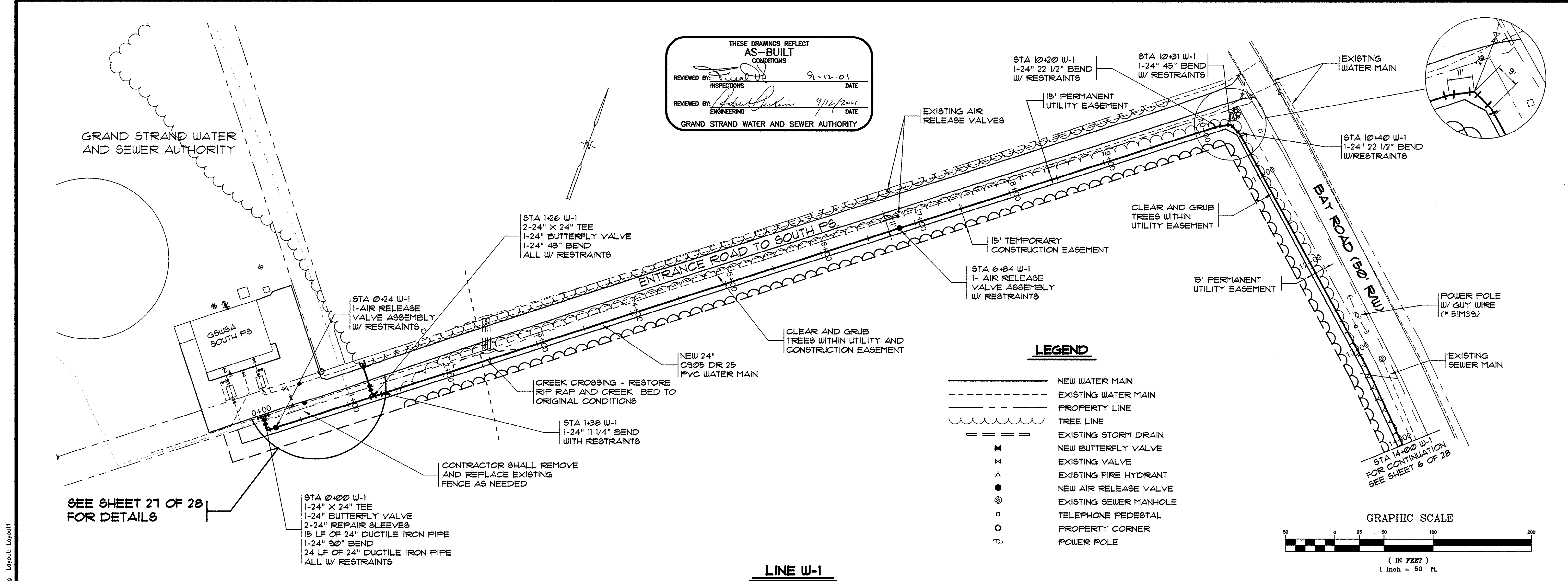
LAYOUT MAP

EAST TRANSMISSION
WATER MAIN
GRAND STRAND WATER
AND SEWER AUTHORITY

DATE:	
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OF:	28

14-150-001/28

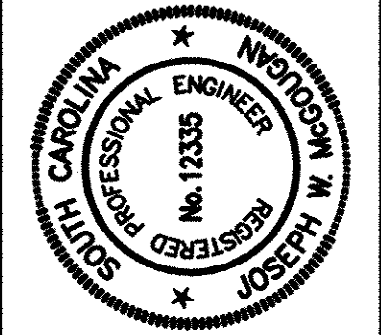
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REVIEWED BY: <i>[Signature]</i>	DATE: 9.12.01
INSPECTIONS	
REVIEWED BY: <i>[Signature]</i>	DATE: 9/12/01
ENGINEERING	
GRAND STRAND WATER AND SEWER AUTHORITY	

SYMBOL	DESCRIPTION	DATE	BY
	PER GSWSA COMMENTS	8/31/00	WDL
	AS-BUILTS	7/16/01	CAR



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MYRTLE BEACH, SOUTH CAROLINA 29577

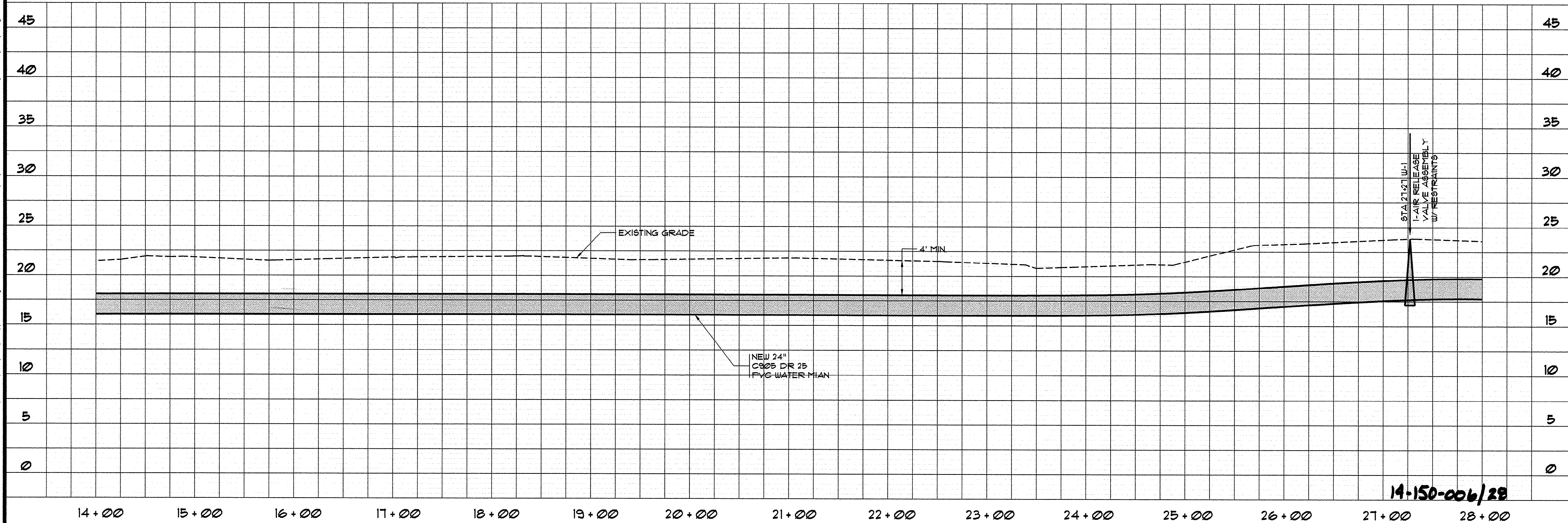
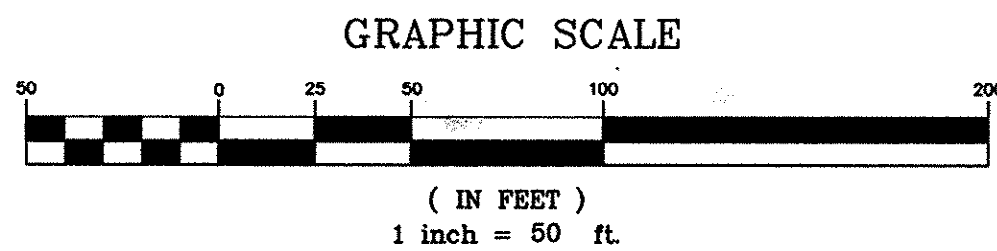
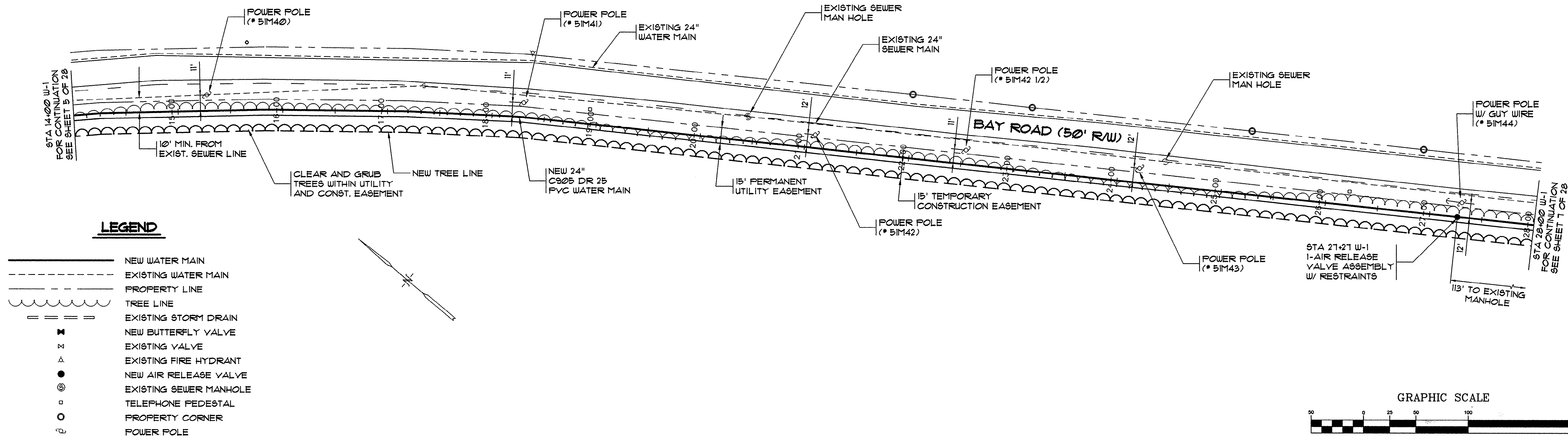


WATER MAIN W-1
PLAN AND PROFILE

EAST TRANSMISSION
WATER MAIN
GRAND STRAND WATER
AND SEWER AUTHORITY

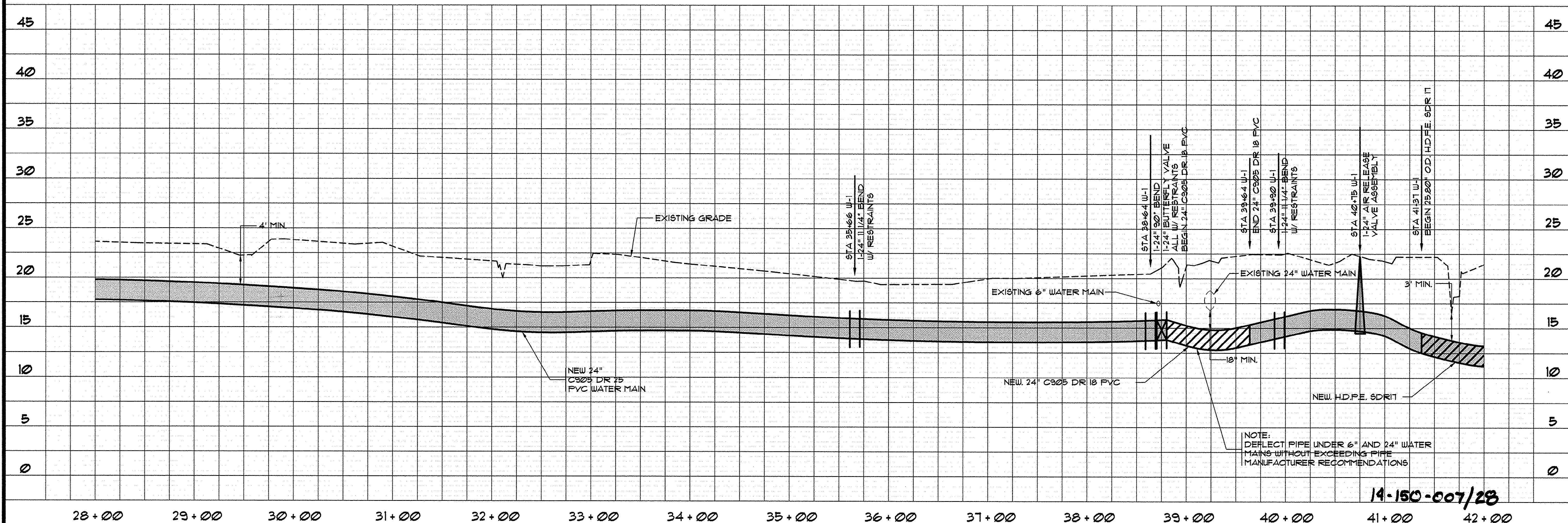
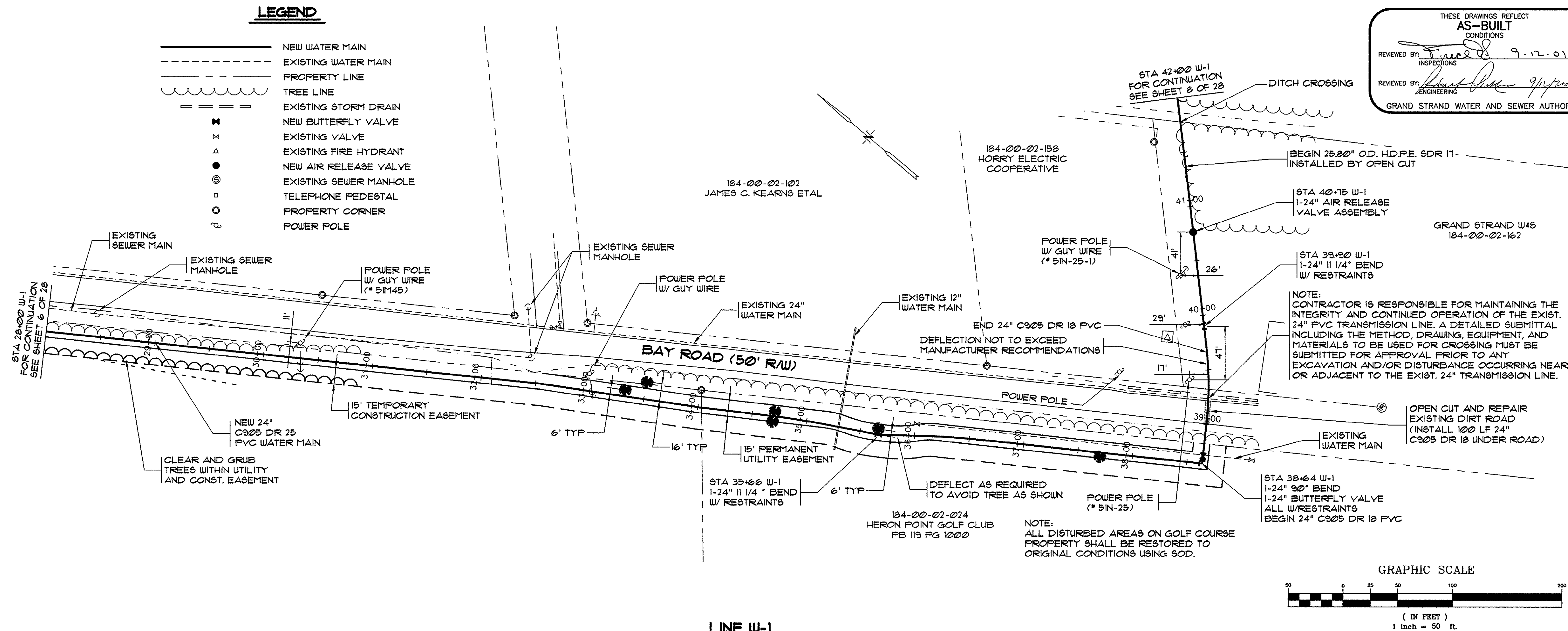
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DESIGNED:	WDL
DRAWN:	KLM
CHECKED:	JWM
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SHEET NO.	6

OF: 28



14-150-006/28

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REVISIONS	DATE	BY	DESCRIPTION
1	8-31-00	TJD	AS-BUILT CONDITIONS
2	7/16/01	CAR	AS-BUILTS

THESE DRAWINGS REFLECT AS-BUILT CONDITIONS

REVIEWED BY: *[Signature]* 9.12.01 DATE: 9/12/01

REVIEWED BY: *[Signature]* 9/12/01 DATE: 9/12/01

GRAND STRAND WATER AND SEWER AUTHORITY

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MYRTLE BEACH, SOUTH CAROLINA 29577

**WATER MAIN W-1
PLAN AND PROFILE**

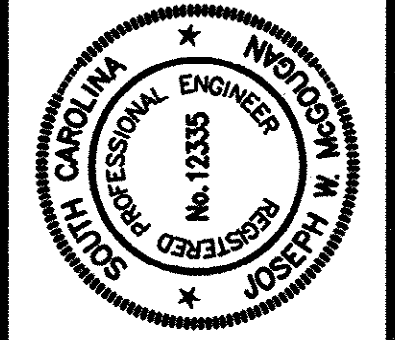
**EAST TRANSMISSION
WATER MAIN
GRAND STRAND WATER
AND SEWER AUTHORITY**

DATE: DEC., 1999
DESIGNED: WDL
DRAWN: KLM
CHECKED: JWM
SCALE: 1" = 50'
SHEET NO. 7 OF 28

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INSPECTIONS	
REVIEWED BY: <i>[Signature]</i>	DATE: 9/12/00
ENGINEERING	
GRAND STRAND WATER AND SEWER AUTHORITY	

SYMBOL	DESCRIPTION	BY	DATE
	PER GSWSA COMMENTS	TJD	7/16/01
	AS-BUILT'S	CAR	

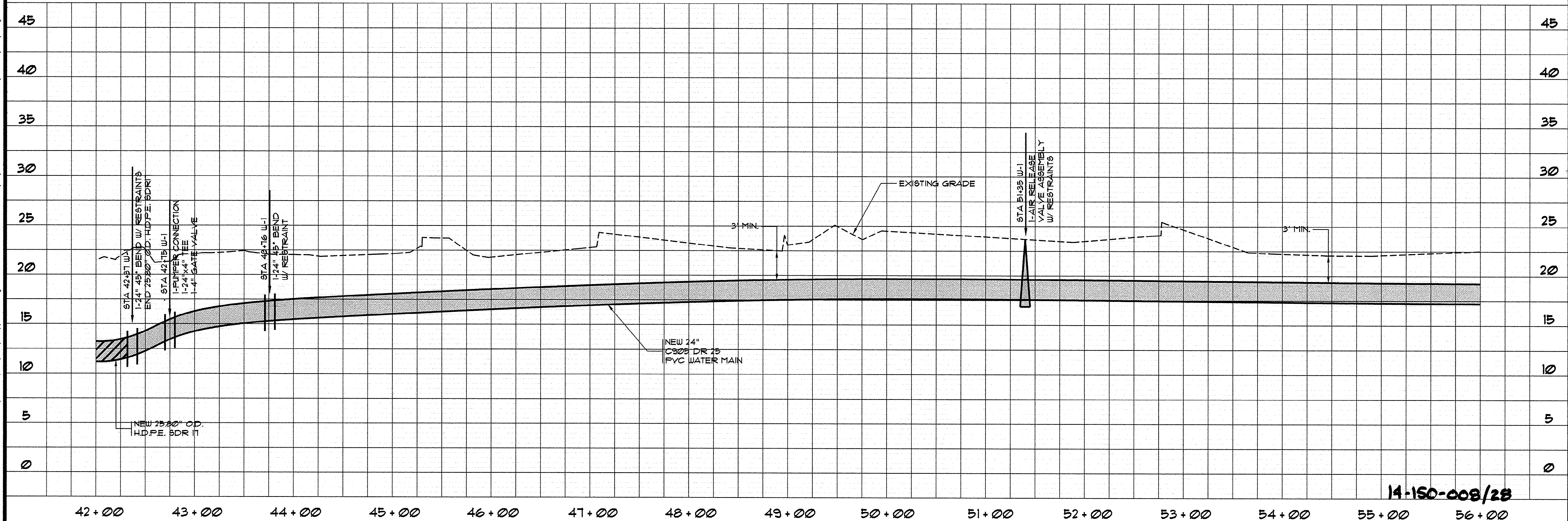
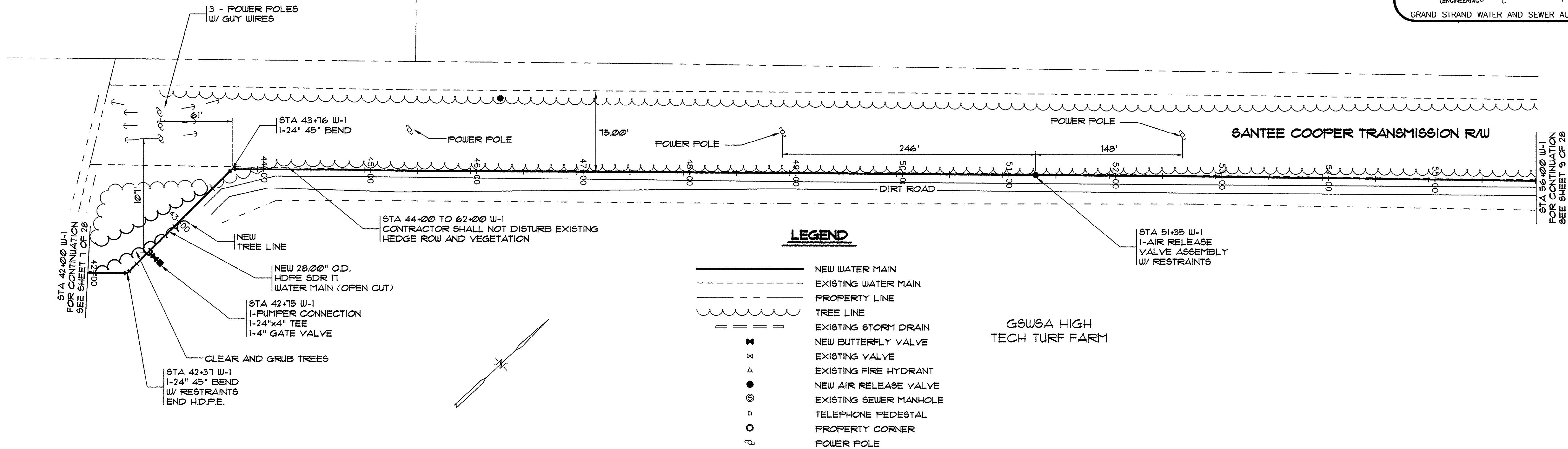


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WATER MAIN W-1
PLAN AND PROFILE

EAST TRANSMISSION
WATER MAIN
GRAND STRAND WATER
AND SEWER AUTHORITY

DATE:	DEC., 1999
DESIGNED:	WDL
DRAWN:	KLM
CHECKED:	JWM
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SHEET NO.	8
OF	28



14-150-008/28

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STA 10+00 W-1
FOR CONTINUATION
SEE SHEET 9 OF 28

NEW 24"
C905 DR 25
PVC WATER MAIN

STA 11+65 W-1
SEE REVISION NOTE

GUY WIRE
POLE

POWER POLE
W/ GUY WIRE
(* 113144)

STA 15+18 W-1
1-24" 11 1/4" BEND
W/ RESTRAINTS

INSTALL WATER MAIN
WITH 4' MIN COVER
AT DITCH CROSSING

STA 14+12 W-1
1-24" 30" BEND
W/ RESTRAINTS

TIE EQUALITY STA 11+41
= STA 15+20 AHEAD

STA 16+34 W-1
1-24" 45" BEND
W/ RESTRAINTS

STA 16+34 W-1
1-24" 45" BEND
W/ RESTRAINTS

SANTEE COOPER TRANSMISSION ROW

NEW 24"
C905 DR 18
PVC WATER MAIN
(ALONG EXISTING
EDGE OF ROAD)

LINE W-1

NOTE:
CONTRACTOR SHALL RESTORE
DIRT ROAD TO ORIGINAL
CONDITION AFTER WATER MAIN IS
INSTALLED ON THE TURF FARM
PROPERTY

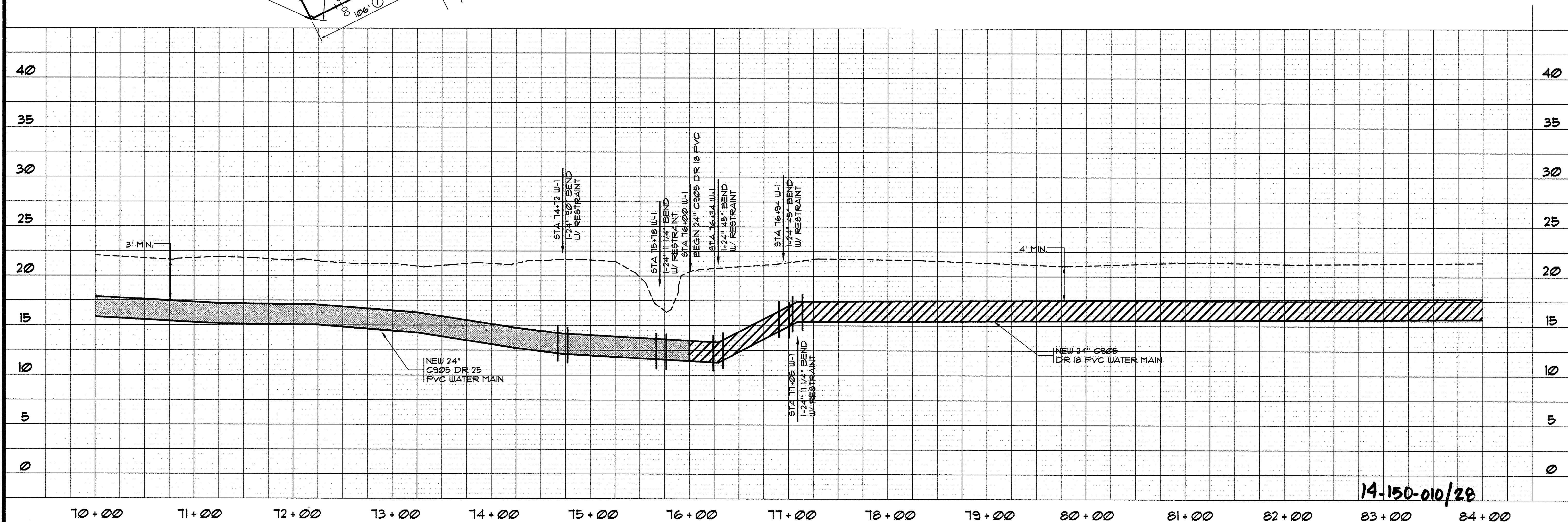
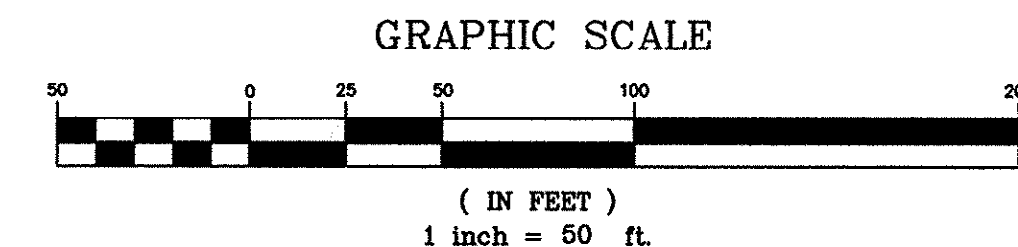
POWER POLE
(* 113142)

STA 84+00 W-1
FOR CONTINUATION
SEE SHEET 10 OF 28

THESE DRAWINGS REFLECT	
AS-BUILT	
CONDITIONS	
REVIEWED BY: <i>[Signature]</i>	DATE: 9.12.01
INSPECTIONS	
REVIEWED BY: <i>[Signature]</i>	DATE: 9/12/2001
ENGINEERING	
GRAND STRAND WATER AND SEWER AUTHORITY	

LEGEND

- NEW WATER MAIN
- EXISTING WATER MAIN
- PROPERTY LINE
- TREE LINE
- EXISTING STORM DRAIN
- NEW BUTTERFLY VALVE
- EXISTING VALVE
- EXISTING FIRE HYDRANT
- NEW AIR RELEASE VALVE
- EXISTING SEWER MANHOLE
- TELEPHONE PEDESTAL
- PROPERTY CORNER
- POWER POLE



14-150-010/28

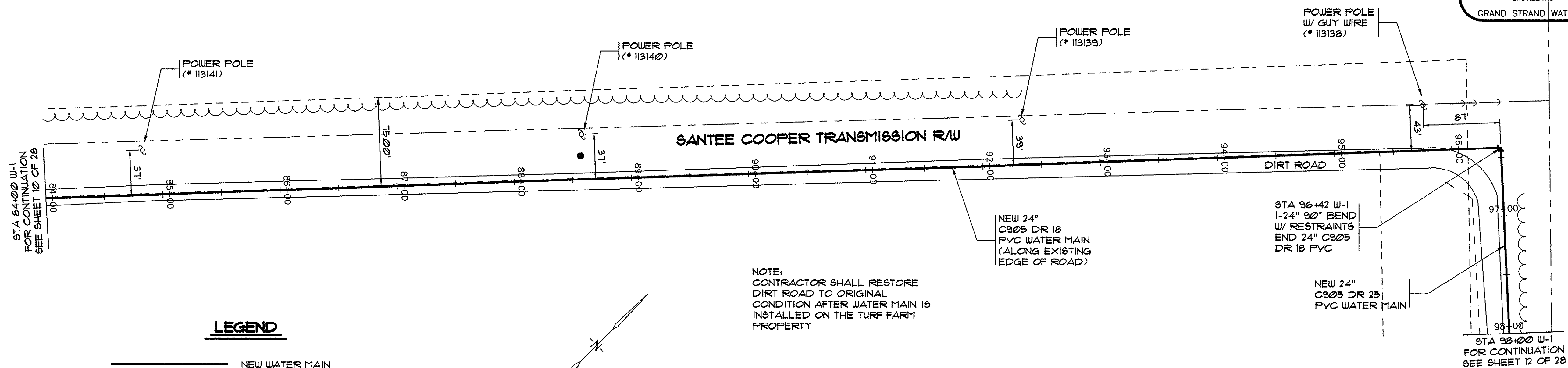
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MYRTLE BEACH, SOUTH CAROLINA 29577

WATER MAIN W-1
PLAN AND PROFILE

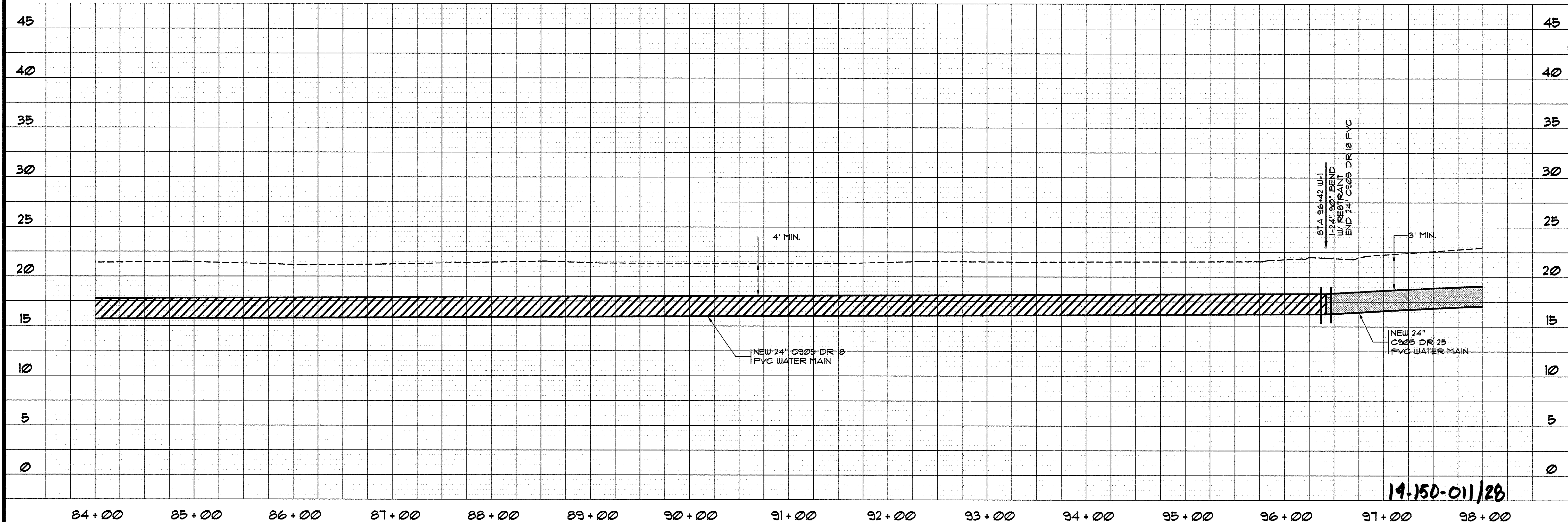
EAST TRANSMISSION
WATER MAIN
GRAND STRAND WATER
AND SEWER AUTHORITY

DATE:	DEC., 1999
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CHECKED:	JWM
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SHEET NO.	10
OF	28

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LINE W-1



THESE DRAWINGS REFLECT

AS-BUILT

CONDITIONS

REVIEWED BY: *[Signature]* DATE: 9.12.01

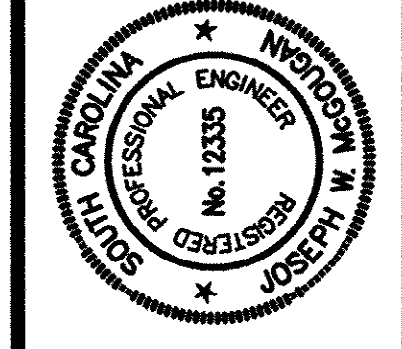
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REVIEWED BY: *[Signature]* DATE: 9/17/2001

ENGINEERING

GRAND STRAND WATER AND SEWER AUTHORITY

SYMBOL	DESCRIPTION	DATE	BY
	PER GSWA COMMENTS	8-31-00	TJD
	AS-BUILTS	7/16/01	CAR



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MYRTLE BEACH, SOUTH CAROLINA 29577



WATER MAIN W-1
PLAN AND PROFILE

EAST TRANSMISSION
WATER MAIN
GRAND STRAND WATER
AND SEWER AUTHORITY

DATE: DEC., 1999

DESIGNED: WDL

DRAWN: KLM

CHECKED: JWM

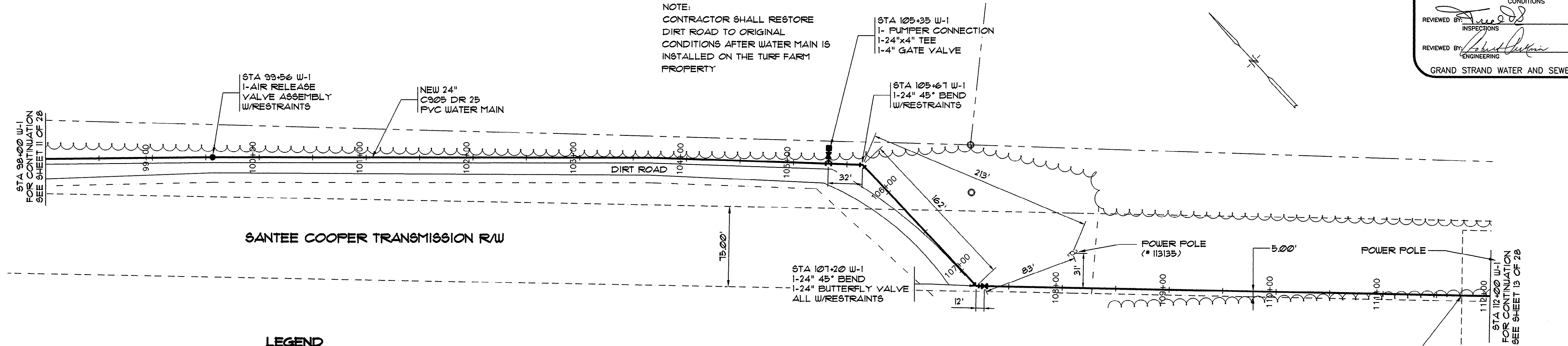
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SHEET NO.

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OF: 28

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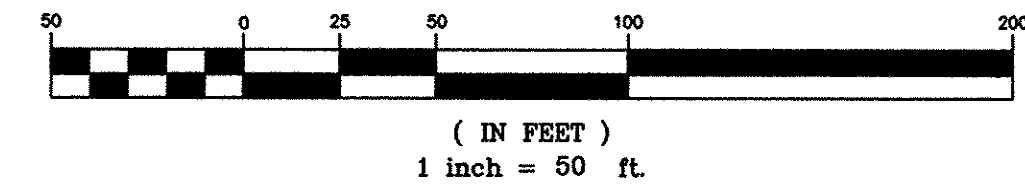
LEGEND

- NEW WATER MAIN
- EXISTING WATER MAIN
- PROPERTY LINE
- TREE LINE
- EXISTING STORM DRAIN
- NEW BUTTERFLY VALVE
- EXISTING VALVE
- EXISTING FIRE HYDRANT
- NEW AIR RELEASE VALVE
- EXISTING SEWER MANHOLE
- TELEPHONE PEDESTAL
- PROPERTY CORNER
- POWER POLE

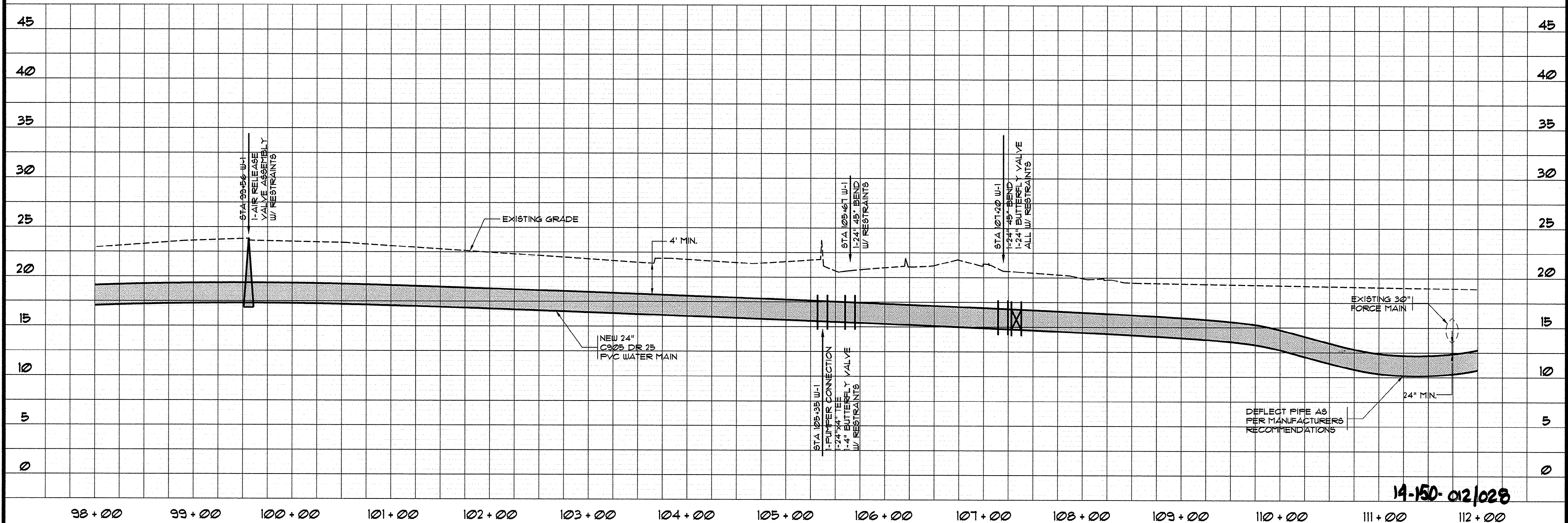
NOTE:
ALL DISTURBED AREAS SHALL BE
RESTORED TO ORIGINAL CONDITIONS

NOTE:
CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE
INTEGRITY AND CONTINUED OPERATION OF THE EXIST.
30" PVC FORCE MAIN. A DETAILED SUBMITTAL
INCLUDING THE METHOD, DRAWING, EQUIPMENT, AND
MATERIALS TO BE USED FOR CROSSING MUST BE
SUBMITTED FOR APPROVAL PRIOR TO ANY
EXCAVATION AND/OR DISTURBANCE OCCURRING NEAR
OR ADJACENT TO THE EXIST. 30" FORCE MAIN.

GRAPHIC SCALE



LINE W-1



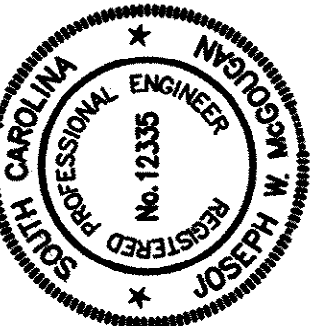
THESE DRAWINGS REFLECT
AS-BUILT
CONDITIONS

REVIEWED BY: *[Signature]* DATE: 9-12-01
INSPECTIONS

REVIEWED BY: *[Signature]* DATE: 9/12/2001
ENGINEERING

GRAND STRAND WATER AND SEWER AUTHORITY

SYMBOL	DESCRIPTION	DATE	BY
	PER GSWSA COMMENTS	8-31-00	TLD
	AS-BUILTS	7/16/01	CAR



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CONSULTING ENGINEERS
MYRTLE BEACH, SOUTH CAROLINA 29577



WATER MAIN W-1
PLAN AND PROFILE

EAST TRANSMISSION
WATER MAIN
GRAND STRAND WATER
AND SEWER AUTHORITY

DATE: DEC., 1999

DESIGNED: WDL

DRAWN: KLM

CHECKED: JWM

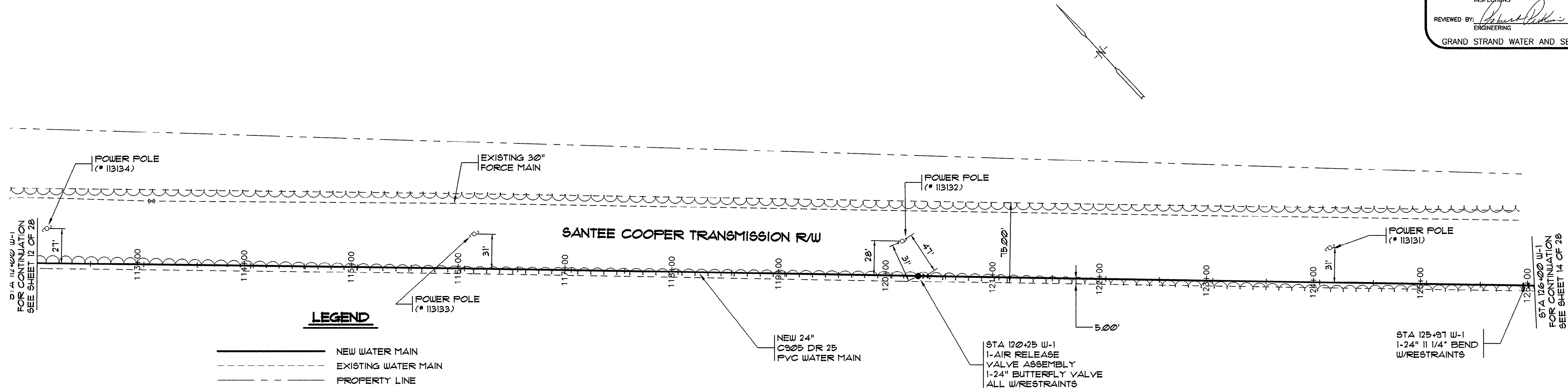
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SHEET NO.

12

OF: 28

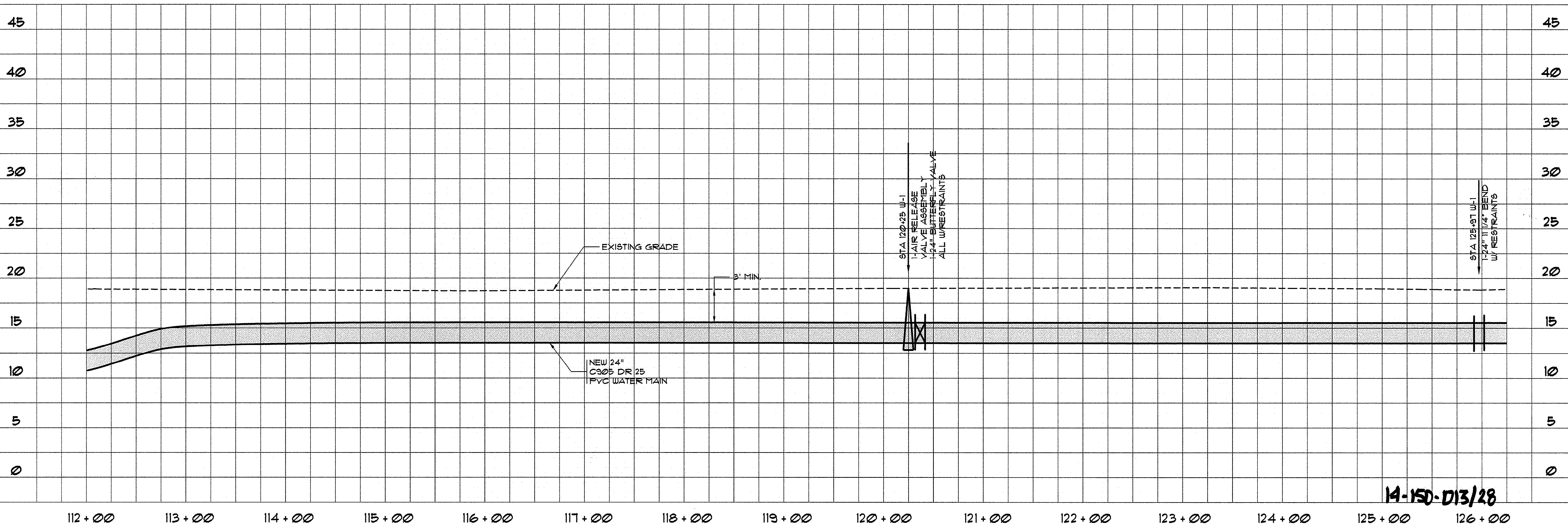
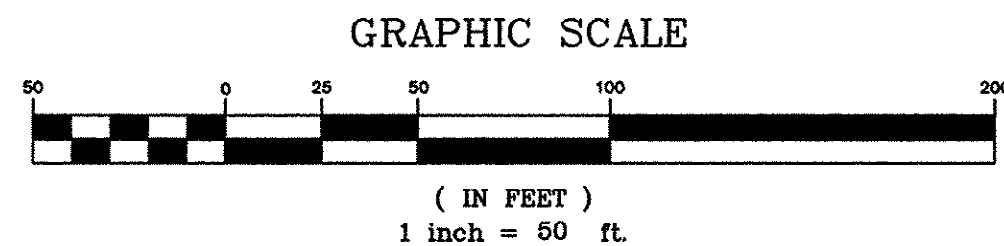
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LEGEND	
	NEW WATER MAIN
	EXISTING WATER MAIN
	PROPERTY LINE
	TREE LINE
	EXISTING STORM DRAIN
	NEW BUTTERFLY VALVE
	EXISTING VALVE
	EXISTING FIRE HYDRANT
	NEW AIR RELEASE VALVE
	EXISTING SEWER MANHOLE
	TELEPHONE PEDESTAL
	PROPERTY CORNER
	POWER POLE

NOTE:
ALL DISTURBED AREAS SHALL BE
RESTORED TO ORIGINAL CONDITIONS

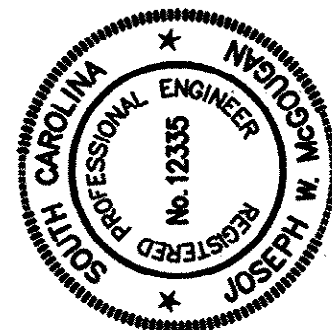
LINE W-1



14-150-D13/28

THESE DRAWINGS REFLECT	
AS-BUILT	
CONDITIONS	
REVIEWED BY:	DATE: 9.12.01
INSPECTIONS	TJD
REVIEWED BY:	DATE: 9/27/2001
ENGINEERING	CAR
GRAND STRAND WATER AND SEWER AUTHORITY	

REVISIONS	
SYMBOL	DESCRIPTION
	PER GSWSA COMMENTS
	AS-BUILTS



HOBBS, UPCHURCH & ASSOCIATES, P.A.
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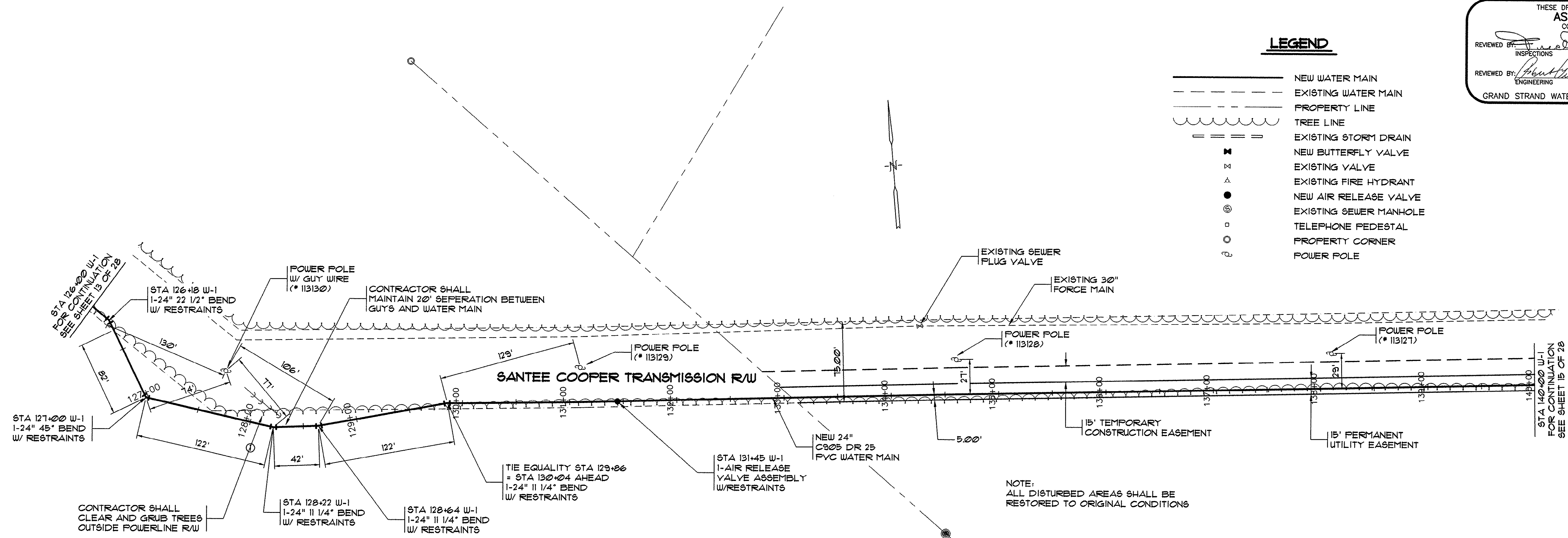


WATER MAIN W-1
PLAN AND PROFILE

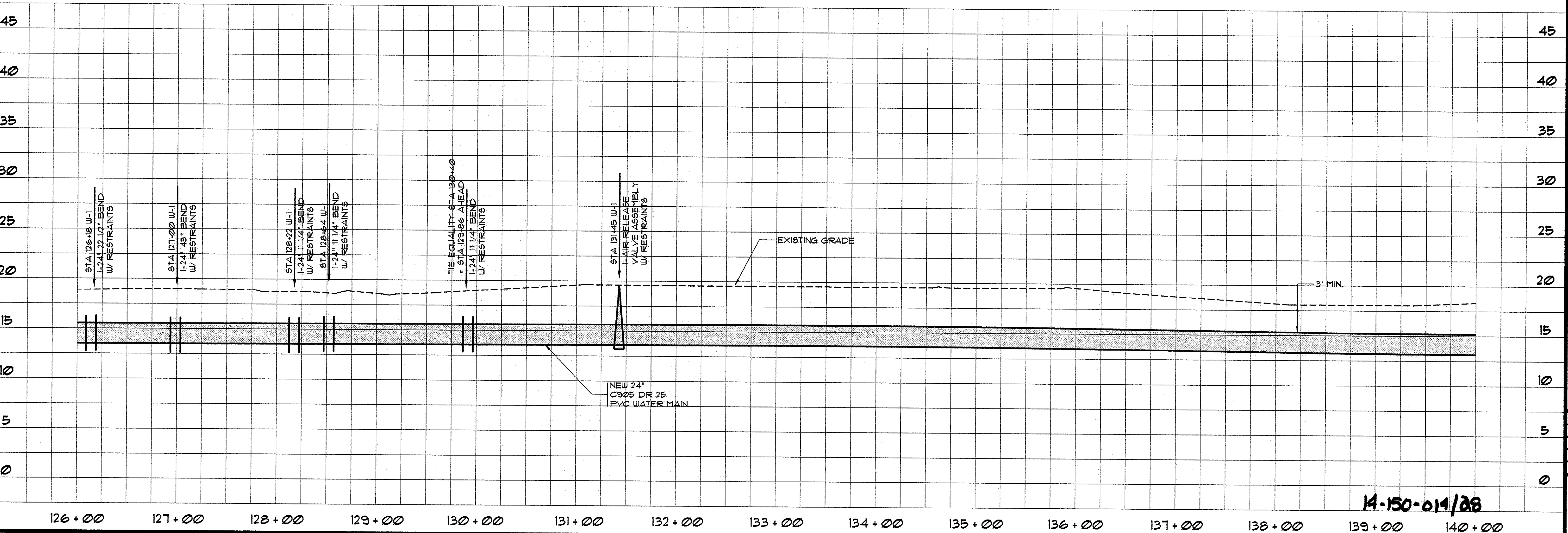
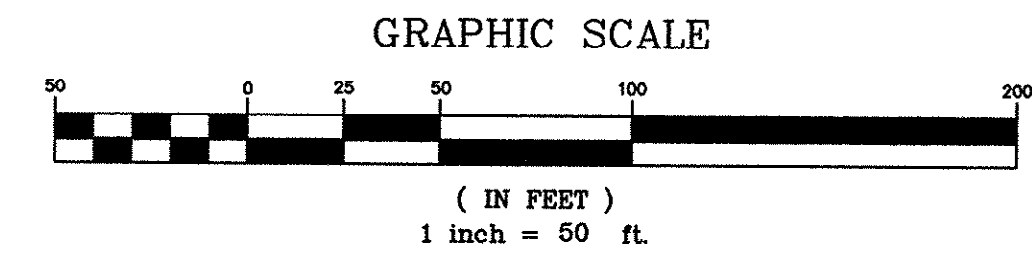
EAST TRANSMISSION
WATER MAIN
GRAND STRAND WATER
AND SEWER AUTHORITY

DATE:	DEC., 1999
DESIGNED:	WDL
DRAWN:	KLM
CHECKED:	JWM
SCALE:	1" = 50'
SHEET NO.	13
OF:	28

HOBBS, UPCHURCH & ASSOC. PC: J:\GS9904\800\1810\points-2.dwg EDITED BY: ARABON DATE: 09/11/01 TIME: 08:17 XREFS: J:\GS9904\800\1810\points-2.dwg Layout: Layout1



LINE W-1



14-150-014/28

LEGEND

- NEW WATER MAIN
- EXISTING WATER MAIN
- PROPERTY LINE
- TREE LINE
- EXISTING STORM DRAIN
- NEW BUTTERFLY VALVE
- EXISTING VALVE
- EXISTING FIRE HYDRANT
- NEW AIR RELEASE VALVE
- EXISTING SEWER MANHOLE
- TELEPHONE PEDESTAL
- PROPERTY CORNER
- POWER POLE

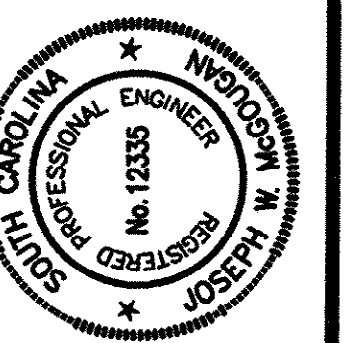
THESE DRAWINGS REFLECT
AS-BUILT
CONDITIONS

REVIEWED BY: *[Signature]* DATE: 9/12/01
INSPECTIONS

REVIEWED BY: *[Signature]* DATE: 9/14/2001
ENGINEERING

GRAND STRAND WATER AND SEWER AUTHORITY

SYMBOL	DESCRIPTION	DATE	BY
1	PER GIS/SA COMMENTS	8-31-00	BT
2	ALIGNMENT FROM STA 126+00 TO STA 130+00 PER SANTEE COOPER COMMENTS	11-19-00	WDL
3	AS-BUILT	7/18/01	CAR



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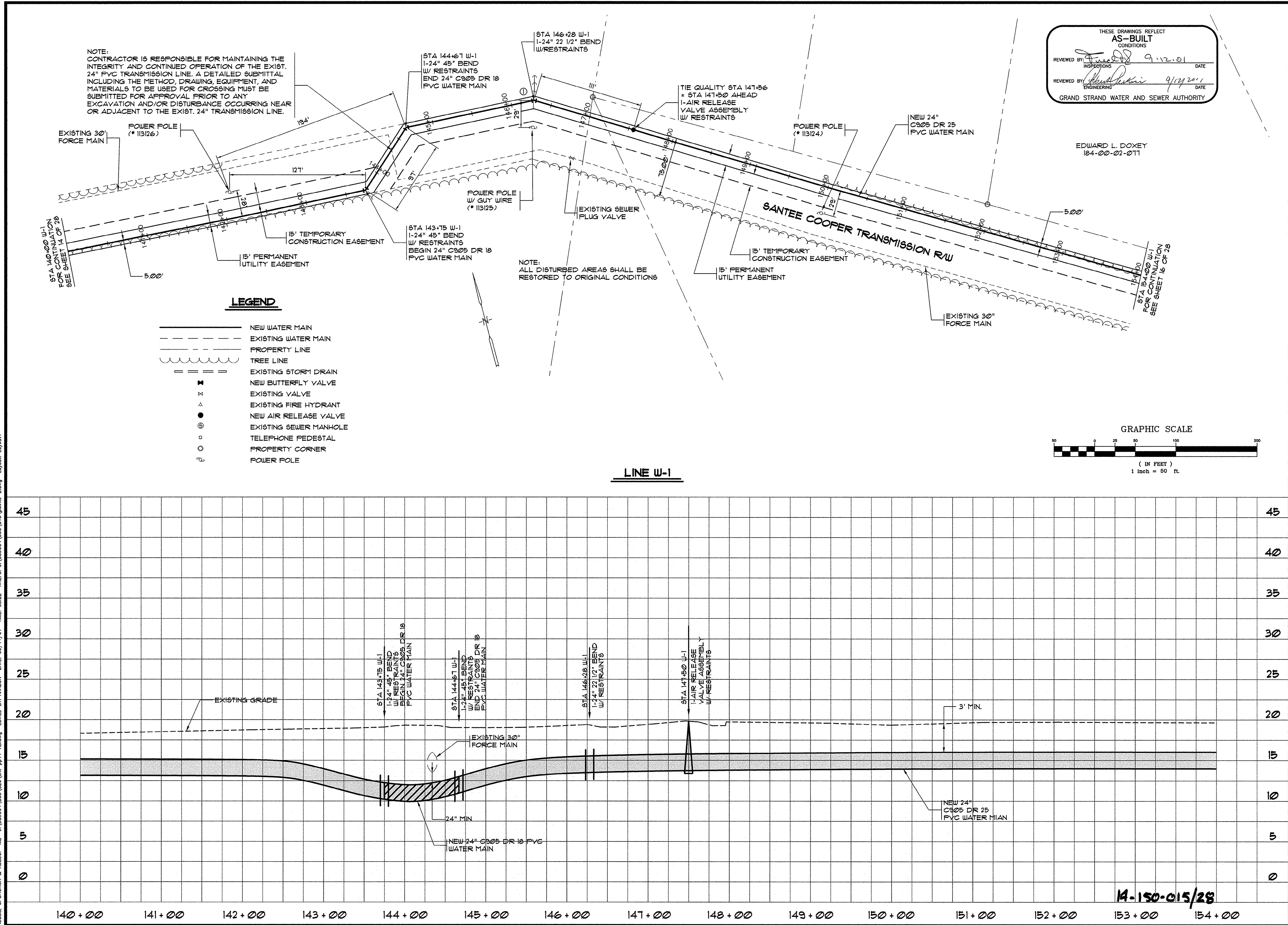


WATER MAIN W-1
PLAN AND PROFILE

EAST TRANSMISSION
WATER MAIN
GRAND STRAND WATER
AND SEWER AUTHORITY

DATE:	DEC., 1999
DESIGNED:	WDL
DRAWN:	KLM
CHECKED:	JWM
SCALE:	1" = 50'
SHEET NO.	14
OF:	28

HOBBS, UPCHURCH & ASSOC. MB J:\GS9904\800\820\sh-p11-AB.dwg EDITED BY: ARABON DATE: 09/11/01 TIME: 08:22 XREFS: J:\GS9904\800\810\points-2.dwg Layout: Layout1



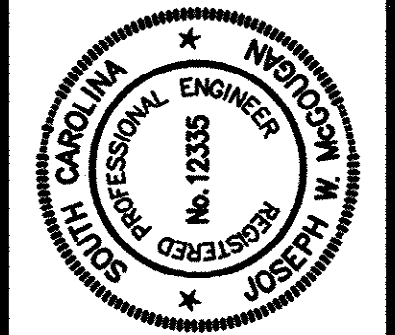
THESE DRAWINGS REFLECT
AS-BUILT
CONDITIONS

REVIEWED BY: *[Signature]* 9.12.01 DATE
INSPECTIONS

REVIEWED BY: *[Signature]* 9/12/2001 DATE
ENGINEERING

GRAND STRAND WATER AND SEWER AUTHORITY

SYMBOL	DESCRIPTION	DATE	BY
(1)	PER CSOSA COMMENTS ALIGNMENT FROM STA 144+61 AND STA 147+50 PER SANTEE COOPER COMMENTS	8-31-00	WDL
	AS-BUILT'S	7/16/01	CAR



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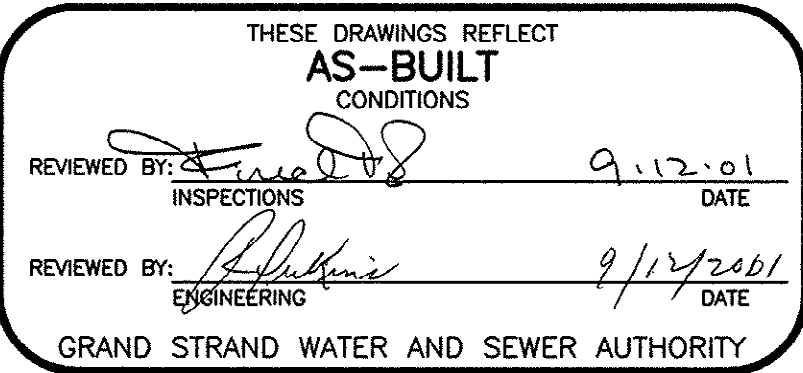
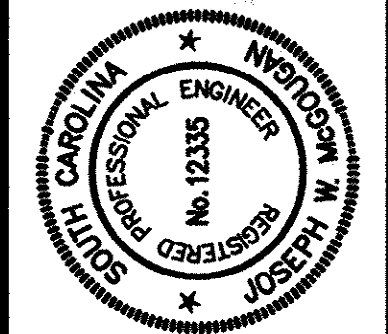
WATER MAIN W-1
PLAN AND PROFILE

EAST TRANSMISSION
WATER MAIN
GRAND STRAND WATER
AND SEWER AUTHORITY

DATE:	DEC., 1999
DESIGNED:	WDL
DRAWN:	KLM
CHECKED:	JWM
SCALE:	1" = 50'
SHEET NO.	

15

28

[illegible]

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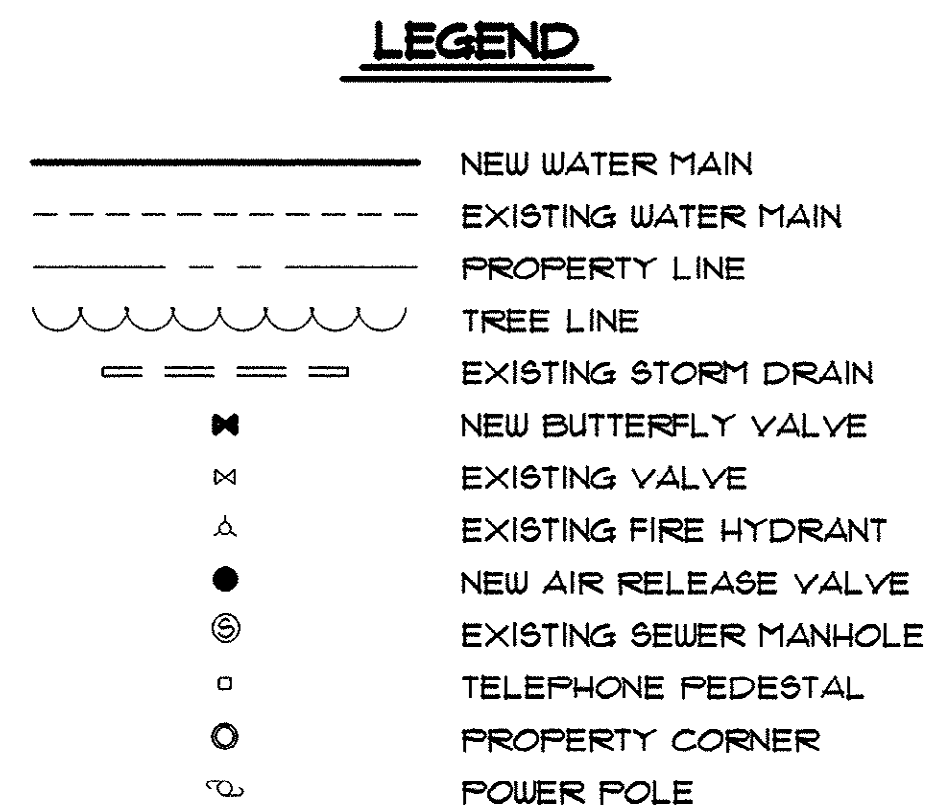


WATER MAIN W-1 PLAN AND PROFILE

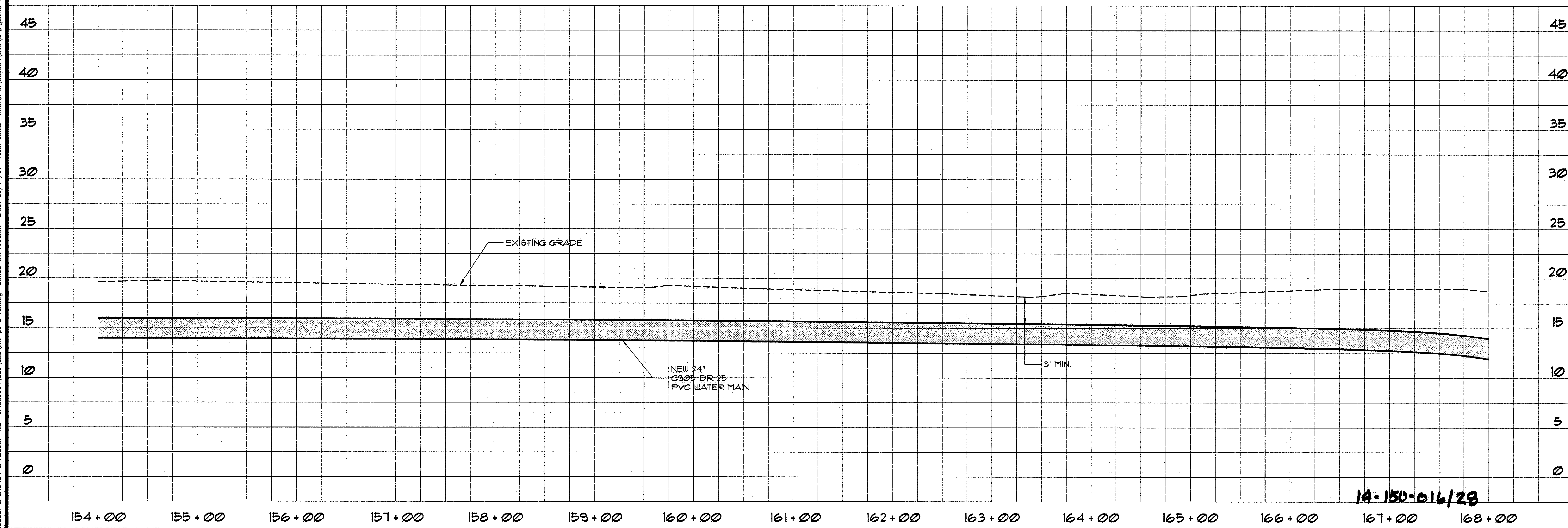
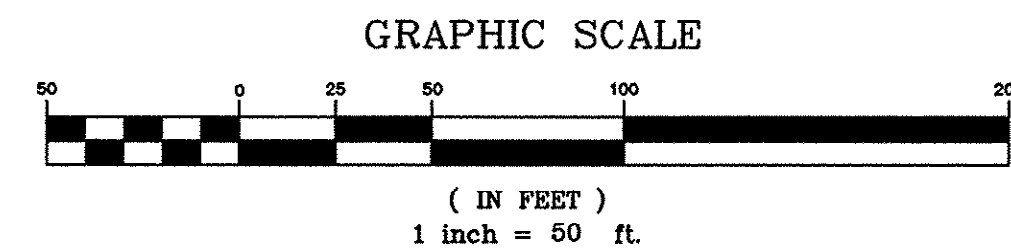
**EAST TRANSMISSION
WATER MAIN
GRAND STRAND WATER**

DATE:	DEC., 1999
DESIGNED:	WDL
DRAWN:	KLM
CHECKED:	JWM
SCALE:	1" = 50'
SHEET NO.	
16	
28	
OF:	

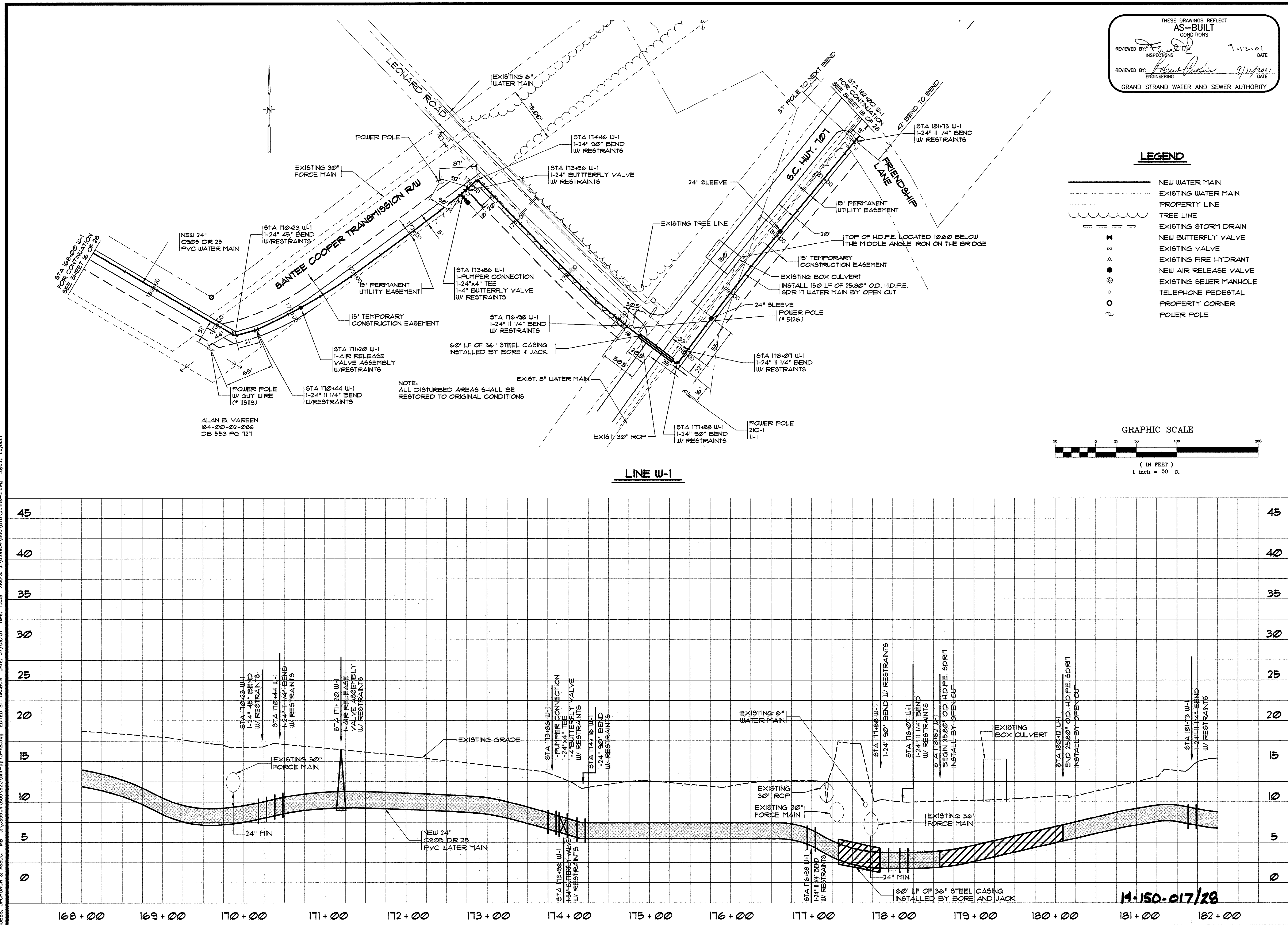
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NOTE:
ALL DISTURBED AREAS SHALL BE
RESTORED TO ORIGINAL CONDITIONS

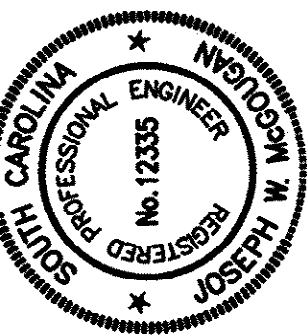


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REVISIONS		DATE	BY
DESCRIPTION	W-1	8-15-00	TJD
PER CSUSA COMMENTS	AS-BUILT	8-31-00	TJD
AS-BUILT		7/16/01	CAR

DATE	DEC., 1999
DESIGNED	WDL
DRAWN	KLM
CHECKED	JWM
SCALE	1" = 50'
SHEET NO.	17
OF	28

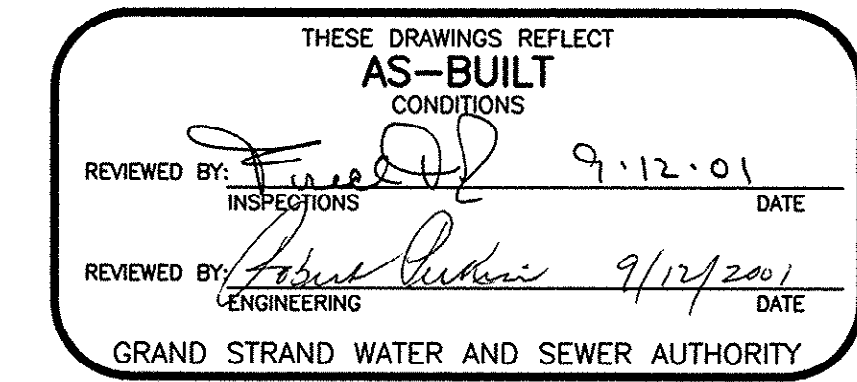


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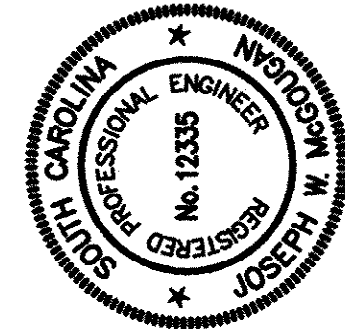


WATER MAIN W-1
PLAN AND PROFILE

EAST TRANSMISSION
WATER MAIN
GRAND STRAND WATER
AND SEWER AUTHORITY



REVISIONS				
SYM.	DESCRIPTION	DATE	BY	
	WM-1 REALIGNED	8-15-00	TJD	
	PER GWSA COMMENTS	8-31-00	TJD	
	AS-BUILT	7/16/01	CAR	



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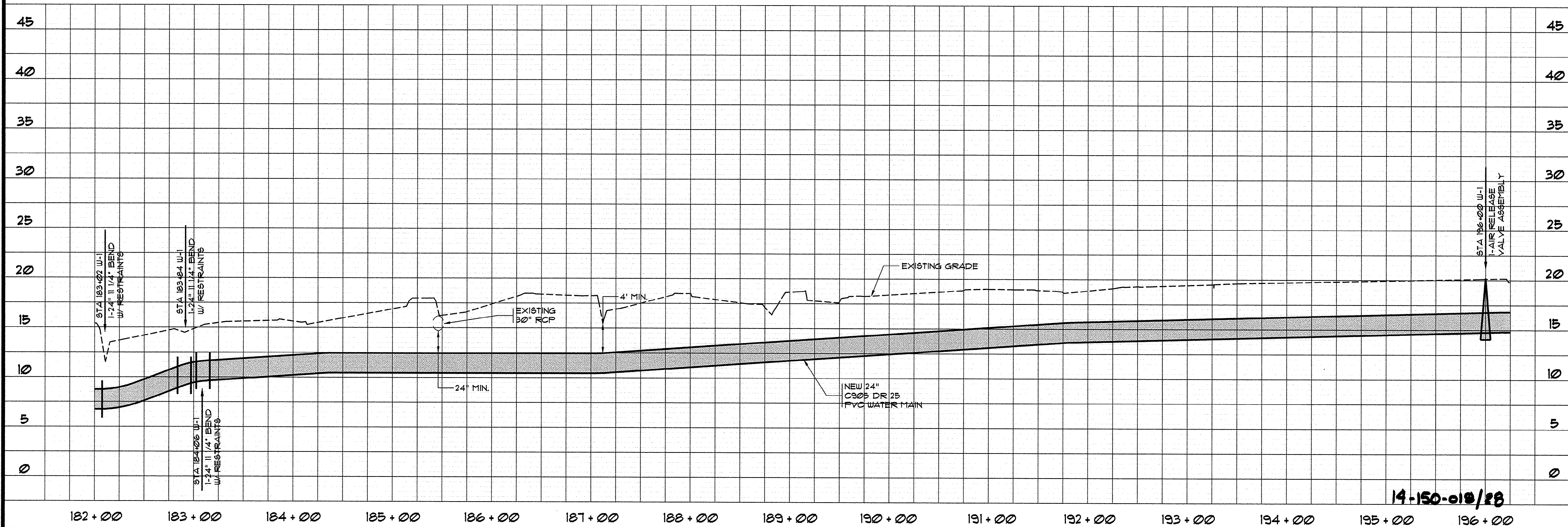
WATER MAIN W-1 PLAN AND PROFILE

**EAST TRANSMISSION
WATER MAIN**
GRAND STRAND WATER
AND SEWER AUTHORITY

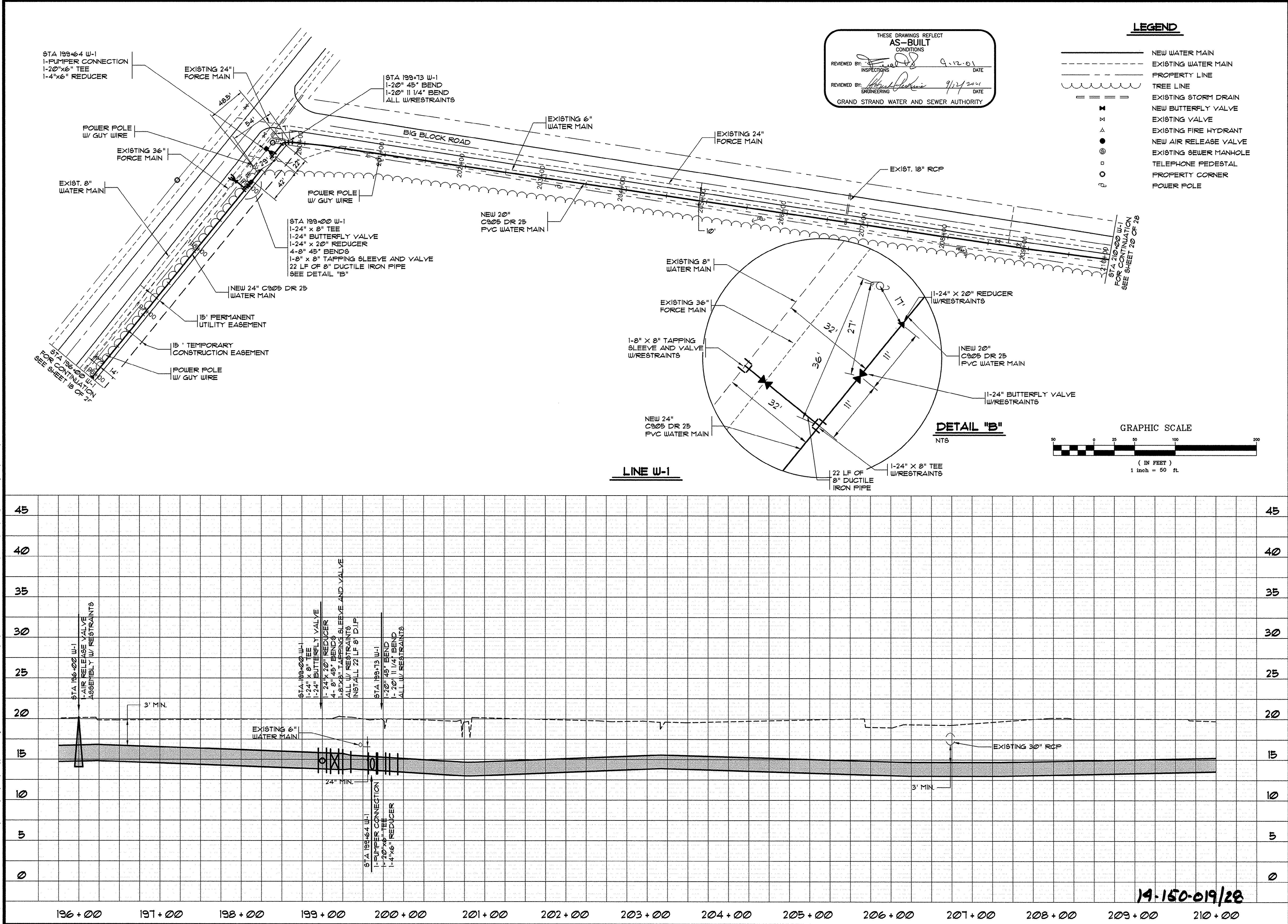
DATE:	DEC., 1999
DESIGNED:	WDL
DRAWN:	KLM
CHECKED:	JWM
SCALE:	1" = 50'
SHEET NO.	

18
28

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THESE DRAWINGS REFLECT
AS-BUILT
CONDITIONS

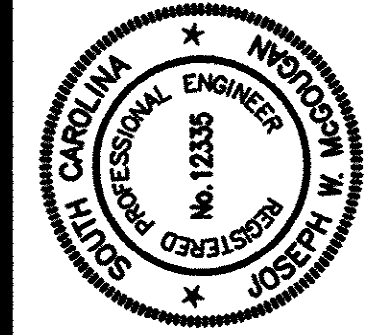
REVIEWED BY: *[Signature]* 9.12.01 DATE
INSPECTIONS

REVIEWED BY: *[Signature]* 9/12/2001 DATE
ENGINEERING

GRAND STRAND WATER AND SEWER AUTHORITY

- LEGEND**
- NEW WATER MAIN
 - - - EXISTING WATER MAIN
 - - - PROPERTY LINE
 - ~ ~ ~ TREE LINE
 - - - EXISTING STORM DRAIN
 - ⊗ NEW BUTTERFLY VALVE
 - ⊗ EXISTING VALVE
 - ⊗ EXISTING FIRE HYDRANT
 - ⊗ NEW AIR RELEASE VALVE
 - ⊗ EXISTING SEWER MANHOLE
 - ⊗ TELEPHONE PEDESTAL
 - ⊗ PROPERTY CORNER
 - ⊗ POWER POLE

REVISIONS		DATE	BY
DESCRIPTION	WM-1 REALIGNED	8-15-00	TJD
PER GSWSA COMMENTS	AS-BUILTS	8-31-00	TJD
AS-BUILTS		7/18/01	CAR



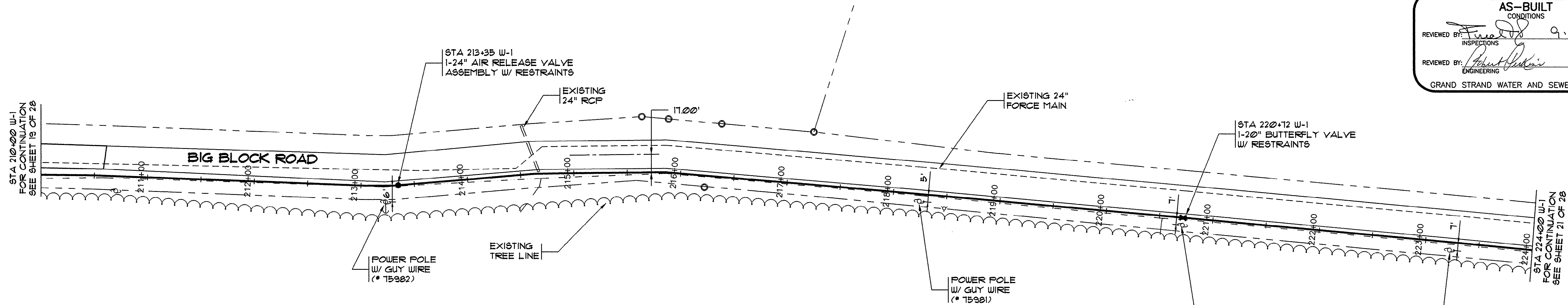
HOBBS, UPCHURCH & ASSOCIATES, P.A.
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MYRTLE BEACH, SOUTH CAROLINA 29577

**WATER MAIN W-1
PLAN AND PROFILE**

**EAST TRANSMISSION
WATER MAIN
GRAND STRAND WATER
AND SEWER AUTHORITY**

DATE:	DEC., 1999
DESIGNED:	WDL
DRAWN:	KLM
CHECKED:	JWM
SCALE:	1" = 50'
SHEET NO.	19
OF	28

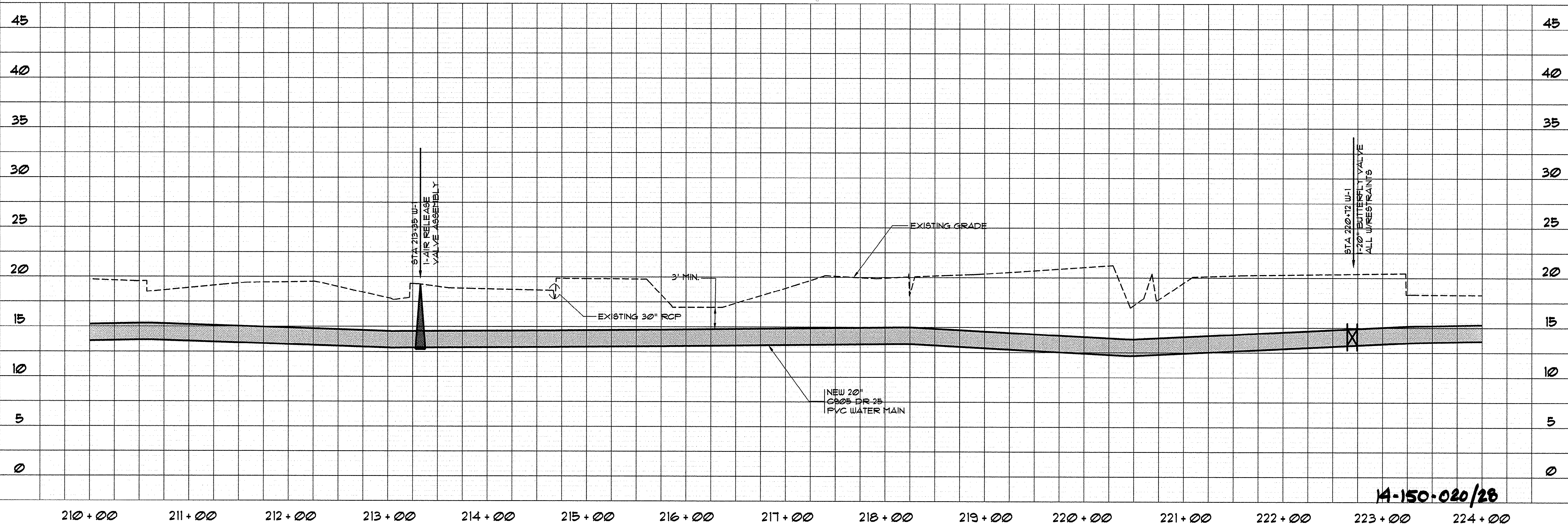
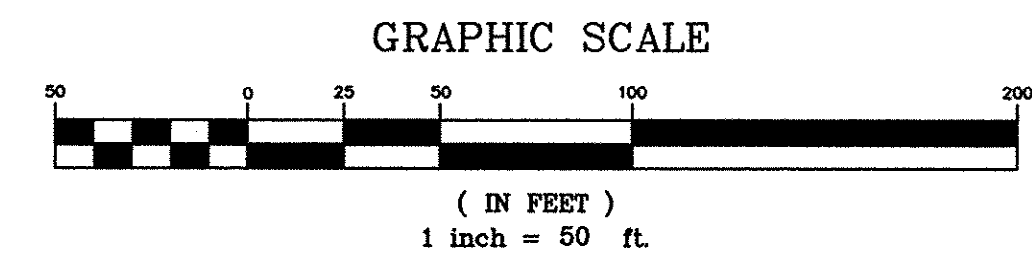
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LEGEND

- NEW WATER MAIN
- EXISTING WATER MAIN
- PROPERTY LINE
- TREE LINE
- EXISTING STORM DRAIN
- NEW BUTTERFLY VALVE
- EXISTING VALVE
- EXISTING FIRE HYDRANT
- NEW AIR RELEASE VALVE
- EXISTING SEWER MANHOLE
- TELEPHONE PEDESTAL
- PROPERTY CORNER
- POWER POLE

LINE W-1



14-150-020/28

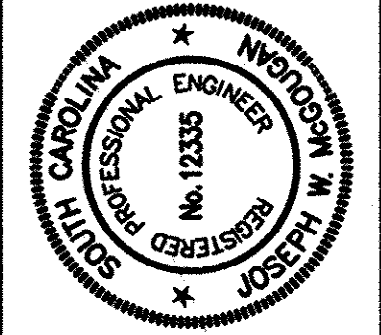
THESE DRAWINGS REFLECT
AS-BUILT
CONDITIONS

REVIEWED BY: *[Signature]* DATE: 9.12.01
INSPECTIONS

REVIEWED BY: *[Signature]* DATE: 9/17/2001
ENGINEERING

GRAND STRAND WATER AND SEWER AUTHORITY

REVISIONS	DATE	BY
DESCRIPTION	8-15-00	TJD
WM-1 REALIGNED	8-31-00	TJD
PER GSWA COMMENTS	7/16/01	CAR
AS-BUILTS		



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WATER MAIN W-1
PLAN AND PROFILE

EAST TRANSMISSION
WATER MAIN
GRAND STRAND WATER
AND SEWER AUTHORITY

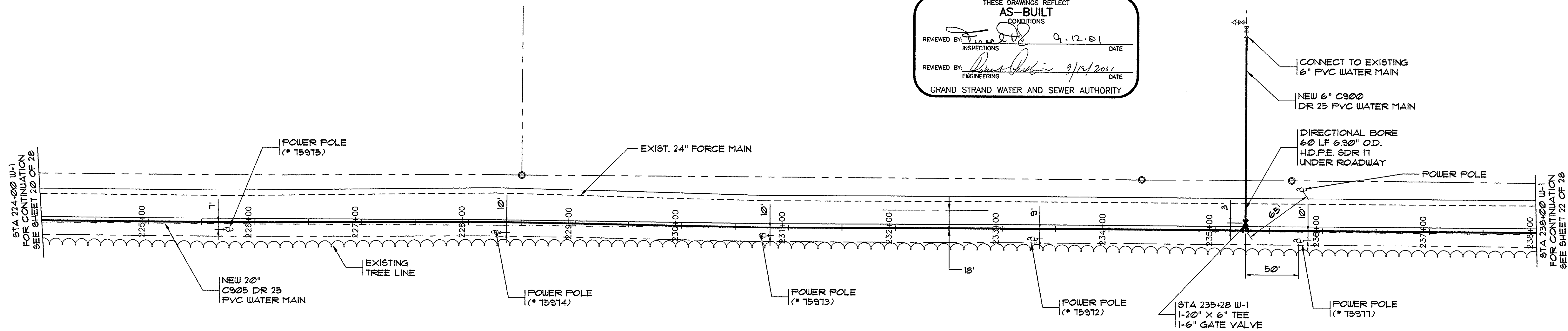
DATE:	DEC., 1999
DESIGNED:	WDL
DRAWN:	KLM
CHECKED:	JWM
SCALE:	1" = 50'
SHEET NO.	

20

OF 28

HOBBS, UPCHURCH & ASSOC. MB J:\CS9904\800\820\w-1-17-18.dwg EDITED BY: ARABON DATE: 09/11/01 TIME: 08:57 XREFS: J:\CS9904\800\810\points-2.dwg Layout: Layout1

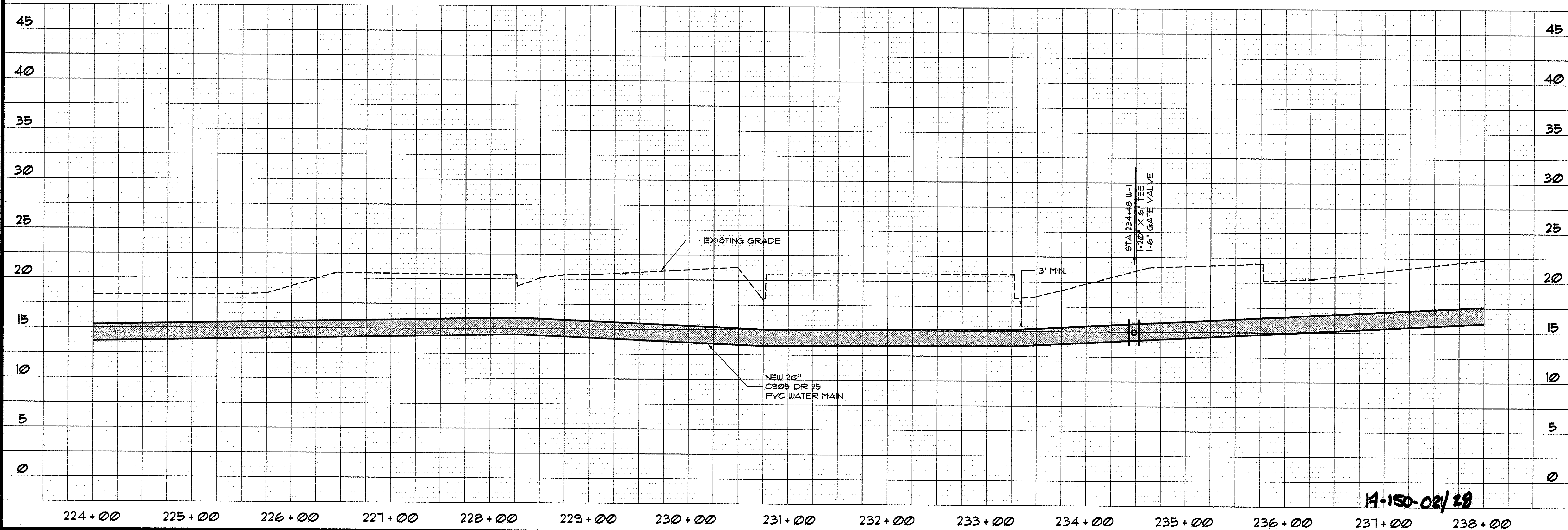
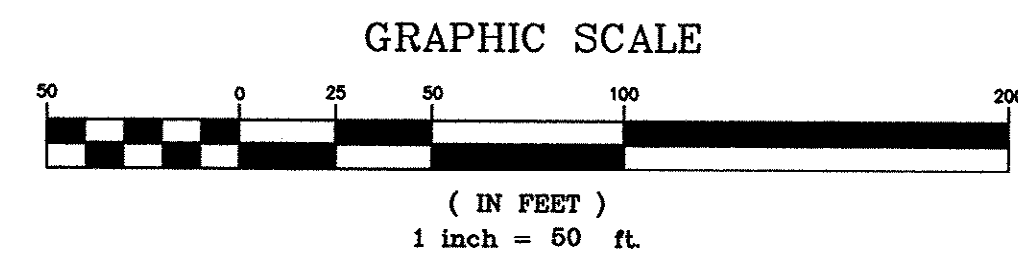
THESE DRAWINGS REFLECT
AS-BUILT
CONDITIONS
REVIEWED BY: *[Signature]* 9.12.01 DATE
INSPECTIONS
REVIEWED BY: *[Signature]* 9/14/2001 DATE
ENGINEERING
GRAND STRAND WATER AND SEWER AUTHORITY



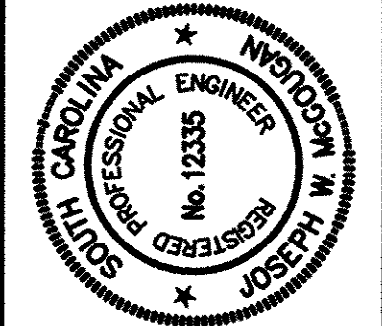
LEGEND

- NEW WATER MAIN
- - - EXISTING WATER MAIN
- - - PROPERTY LINE
- - - TREE LINE
- - - EXISTING STORM DRAIN
- ⌵ NEW BUTTERFLY VALVE
- ⌵ EXISTING VALVE
- EXISTING FIRE HYDRANT
- NEW AIR RELEASE VALVE
- ⊙ EXISTING SEWER MANHOLE
- TELEPHONE PEDESTAL
- PROPERTY CORNER
- ⊙ POWER POLE

LINE W-1



REVISIONS		DATE	BY
DESCRIPTION	WM-1 REALIGNED	8-15-00	TJD
PER GSWSA COMMENTS	AS-BUILT	8-31-00	TJD
AS-BUILT		7/7/16/01	CAR

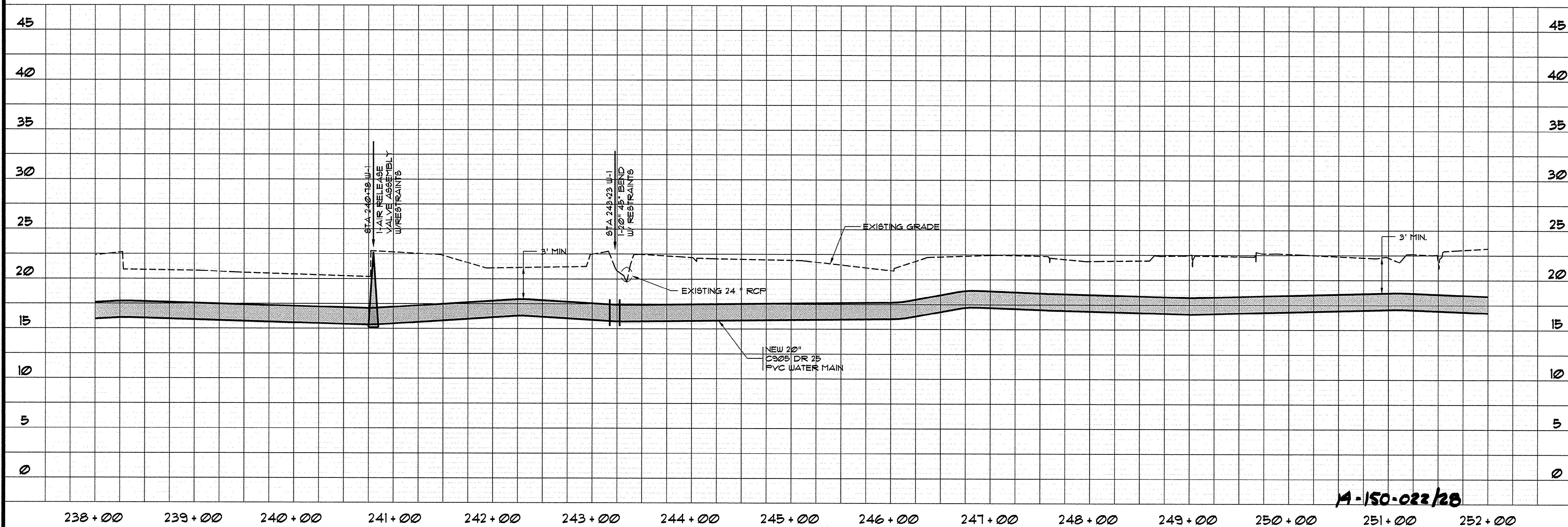
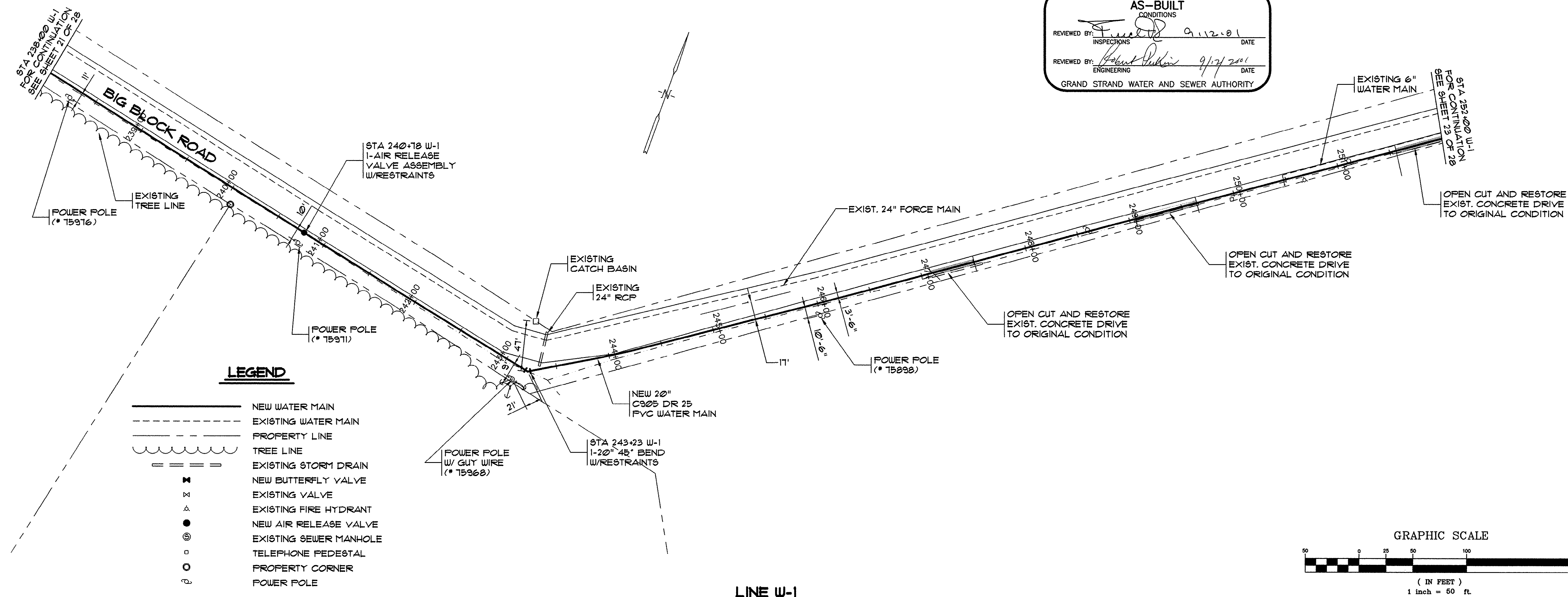


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**WATER MAIN W-1
PLAN AND PROFILE**

**EAST TRANSMISSION
WATER MAIN
GRAND STRAND WATER
AND SEWER AUTHORITY**

DATE:	DEC., 1999
DESIGNED:	WDL
DRAWN:	KLM
CHECKED:	JWM
SCALE:	1" = 50'
SHEET NO.	21
OF	28



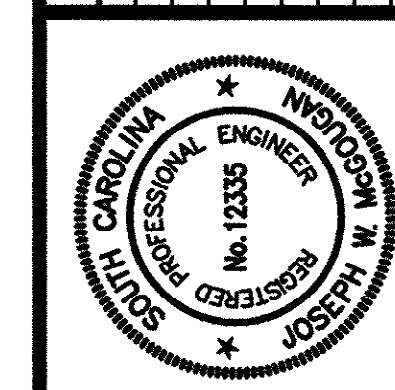
THESE DRAWINGS REFLECT
AS-BUILT
CONDITIONS

REVIEWED BY: [Signature] 9/12/01 DATE _____
INSPECTIONS

REVIEWED BY: [Signature] 9/12/2001 DATE _____
ENGINEERING

GRAND STRAND WATER AND SEWER AUTHORITY

REVISIONS			
SYN.	DESCRIPTION	DATE	BY
	WM-1 REALIGNED	8-15-00	TJD
	PER GWSA COMMENTS	8-31-00	TJD
	AS-BUILT	7/16/01	CAR



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**WATER MAIN W-1
PLAN AND PROFILE**

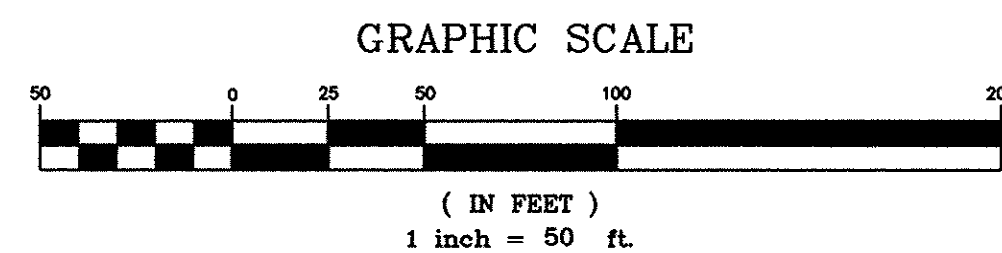
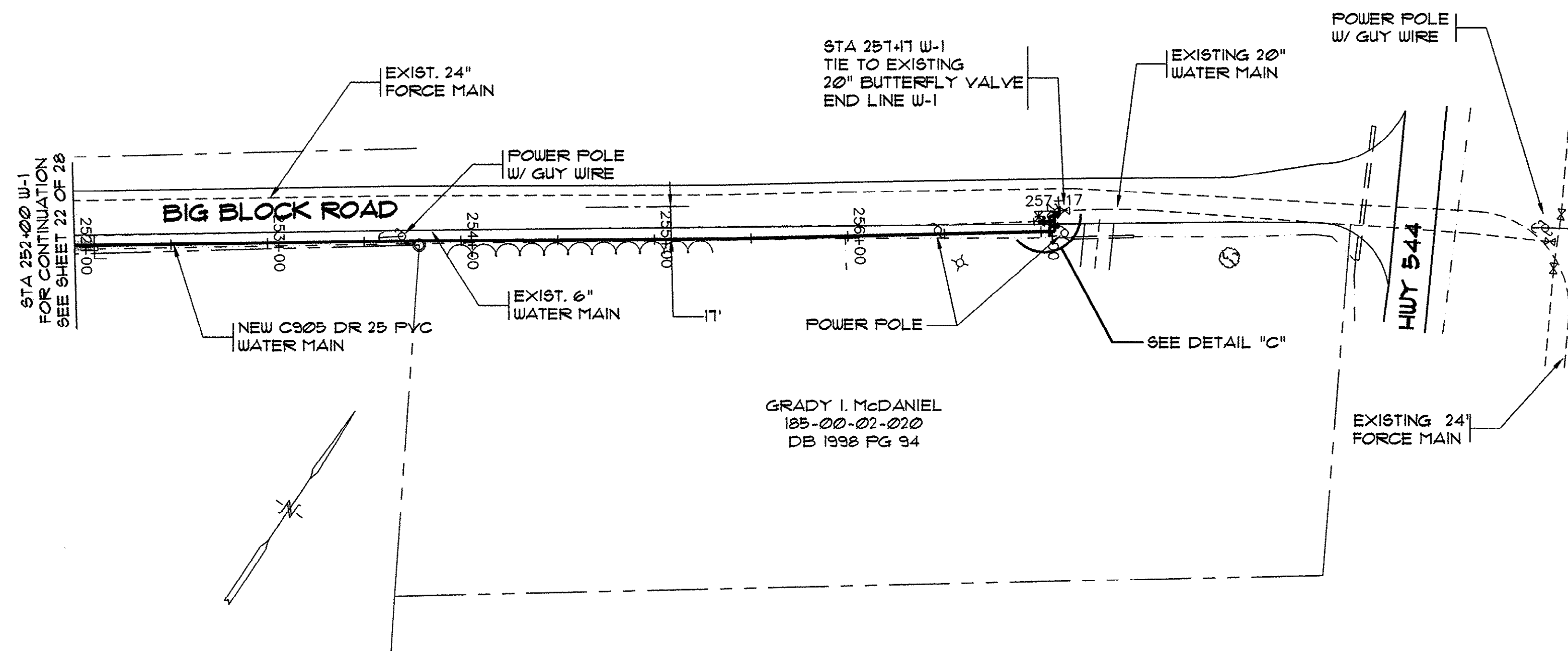
**EAST TRANSMISSION
WATER MAIN**
GRAND STRAND WATER
AND SEWER AUTHORITY

DATE:	DEC., 1999
DESIGNED:	WDL
DRAWN:	KLM
CHECKED:	JWM
SCALE:	1" = 50'
SHEET NO.	

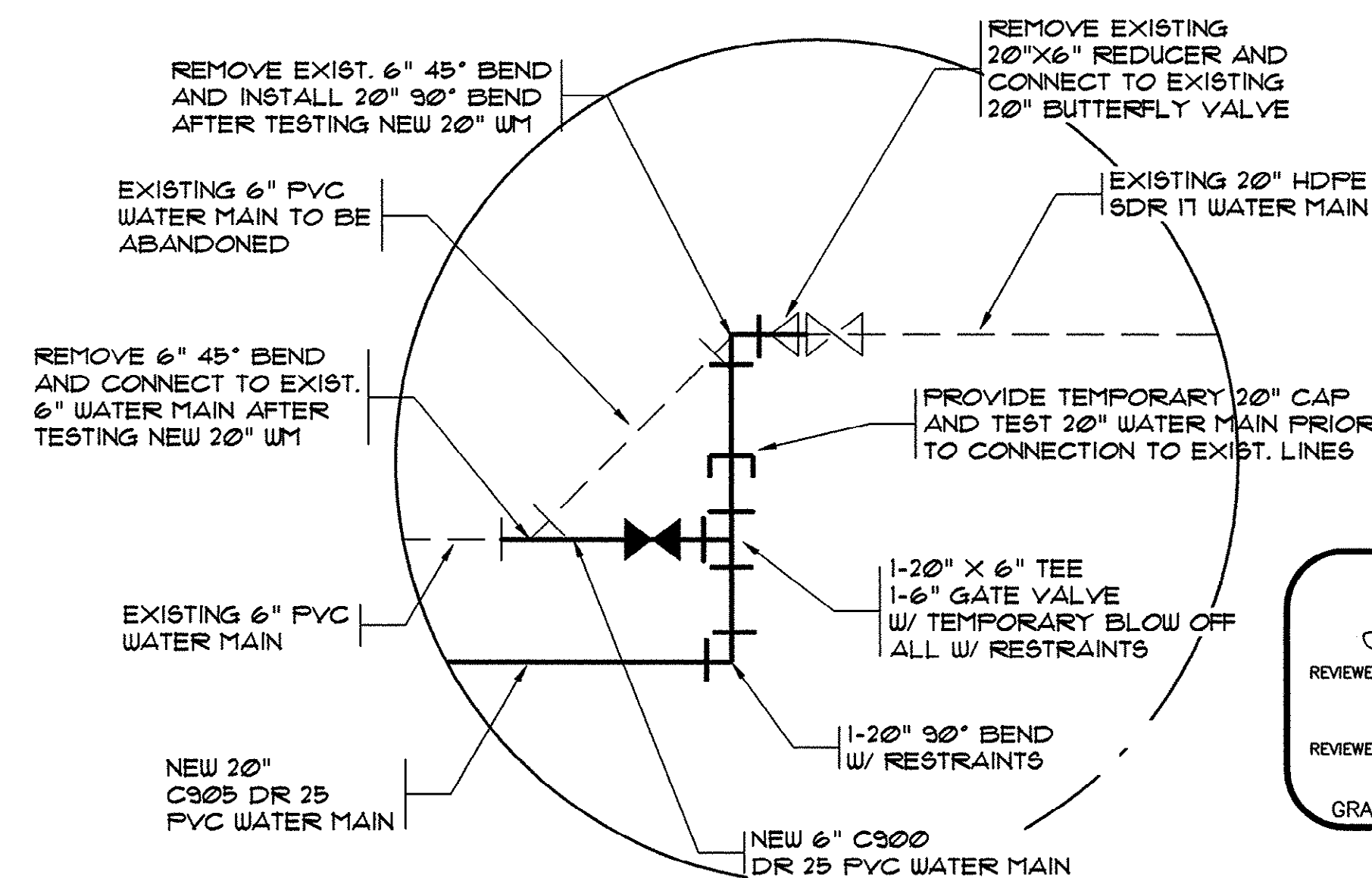
22

OF: 28

HOBBS, UPCHURCH & ASSOC. MB J:\GS9804\800\820\sh-pp18-AB.dwg EDITED BY: ARABON DATE: 09/11/01 TIME: 09:03 XREFS: J:\GS9804\800\810\points-2.dwg Layout: Layout1



LINE W-1



DETAIL "C"

THESE DRAWINGS REFLECT
AS-BUILT
CONDITIONS

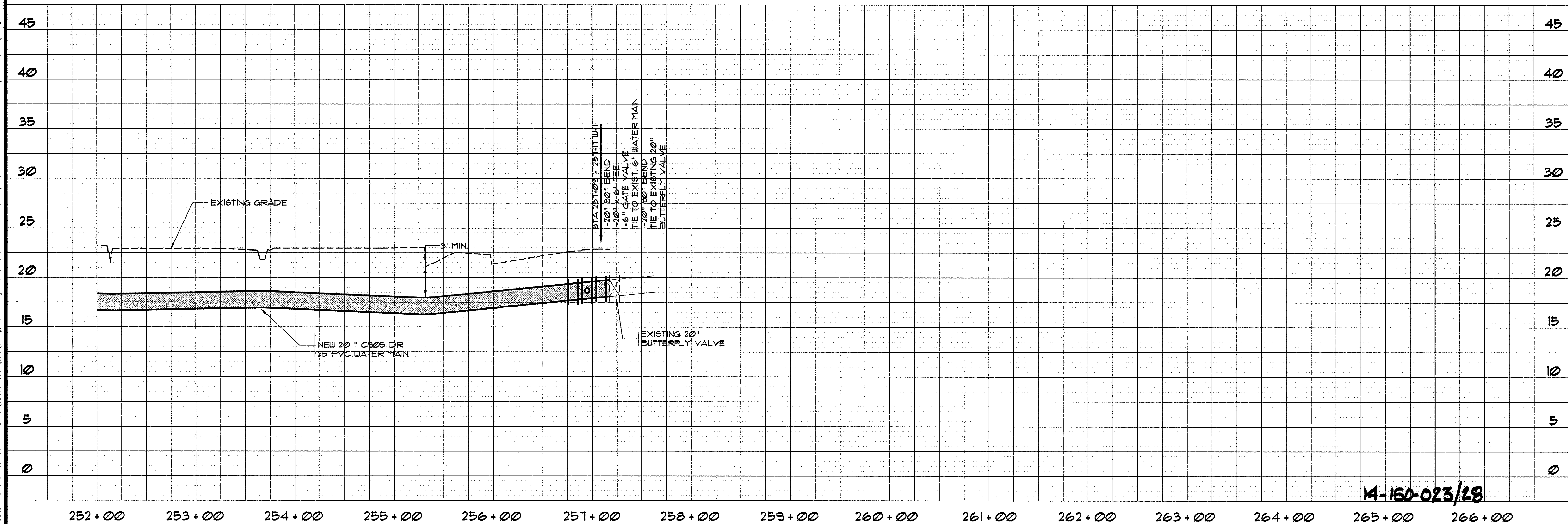
REVIEWED BY: *[Signature]* 9.12.01 DATE
INSPECTIONS

REVIEWED BY: *[Signature]* 9/12/01 DATE
ENGINEERING

GRAND STRAND WATER AND SEWER AUTHORITY

LEGEND

- NEW WATER MAIN
- EXISTING WATER MAIN
- PROPERTY LINE
- TREE LINE
- EXISTING STORM DRAIN
- NEW BUTTERFLY VALVE
- EXISTING VALVE
- EXISTING FIRE HYDRANT
- NEW AIR RELEASE VALVE
- EXISTING SEWER MANHOLE
- TELEPHONE PEDESTAL
- PROPERTY CORNER
- POWER POLE



STYL.	DESCRIPTION	DATE	BY
WM-1	REALIGNED	8-15-00	TJD
	PER GSWA COMMENTS	8-31-00	WDL
	AS-BUILT'S	7/16/01	CAR

REVISIONS

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CONSULTING ENGINEERS
MYRTLE BEACH, SOUTH CAROLINA 29577

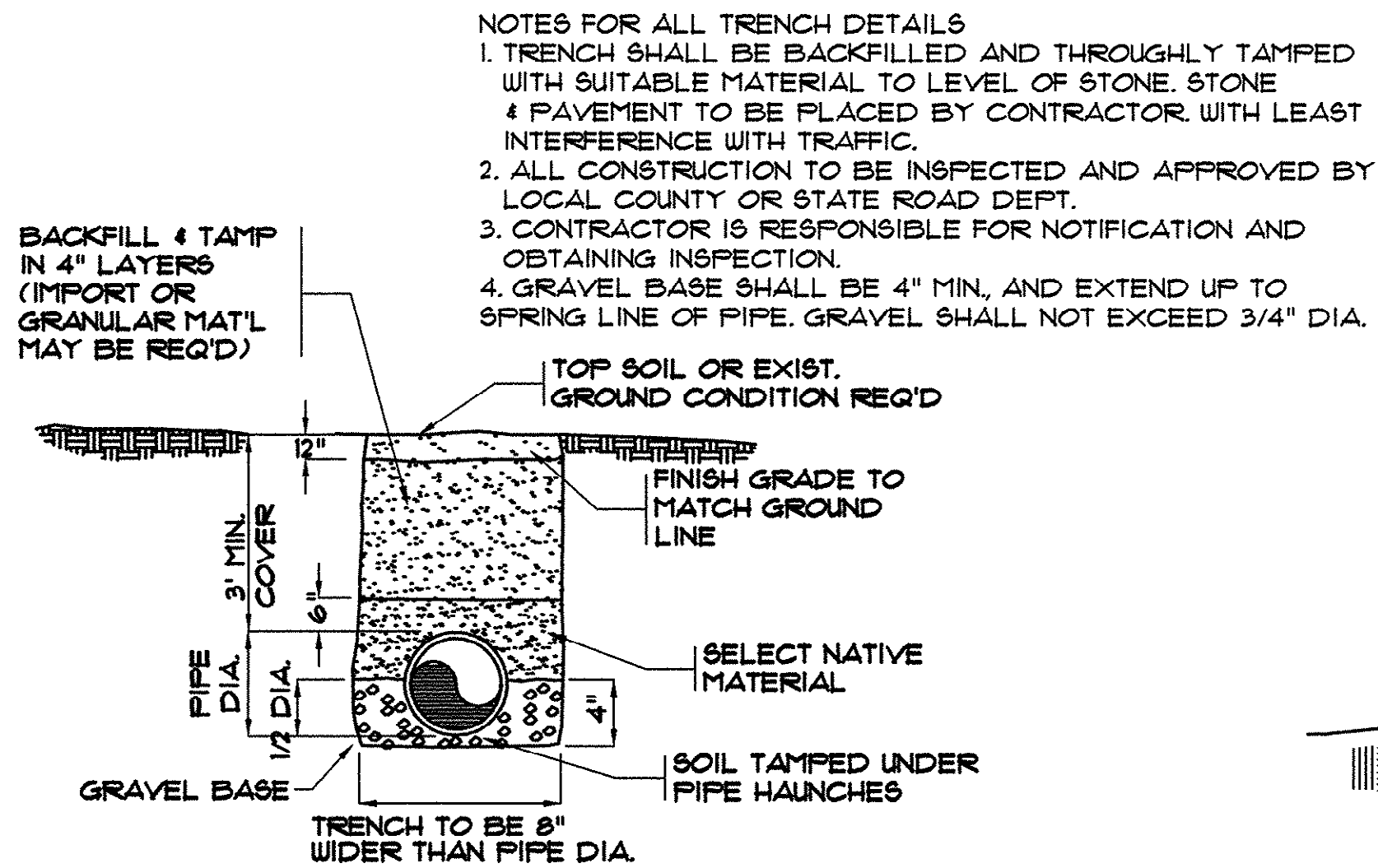
**WATER MAIN W-1
PLAN AND PROFILE**

**EAST TRANSMISSION
WATER MAIN
GRAND STRAND WATER
AND SEWER AUTHORITY**

DATE: DEC., 1999
DESIGNED: WDL
DRAWN: KLM
CHECKED: JWM
SCALE: 1" = 50'
SHEET NO. 23
OF 28

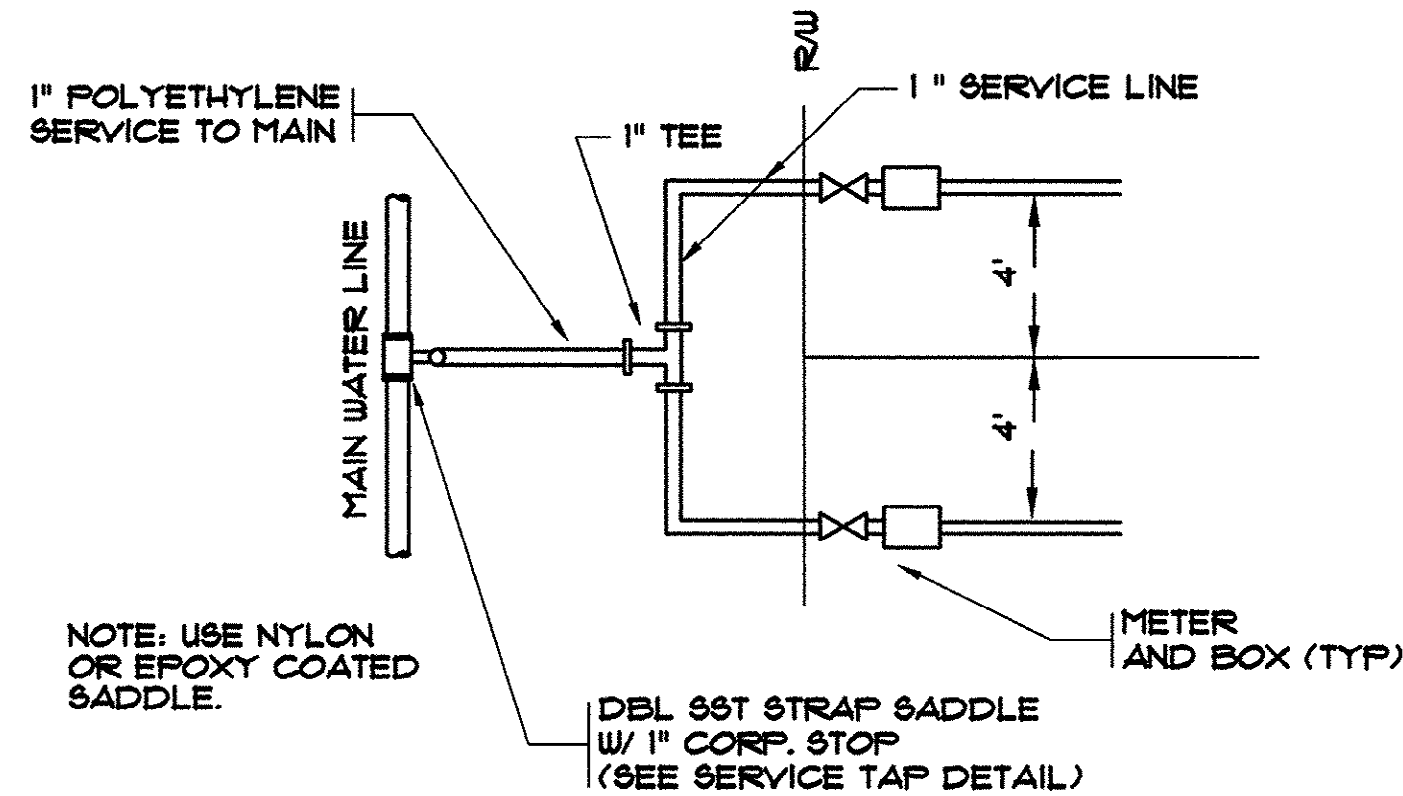
14-150-023/28

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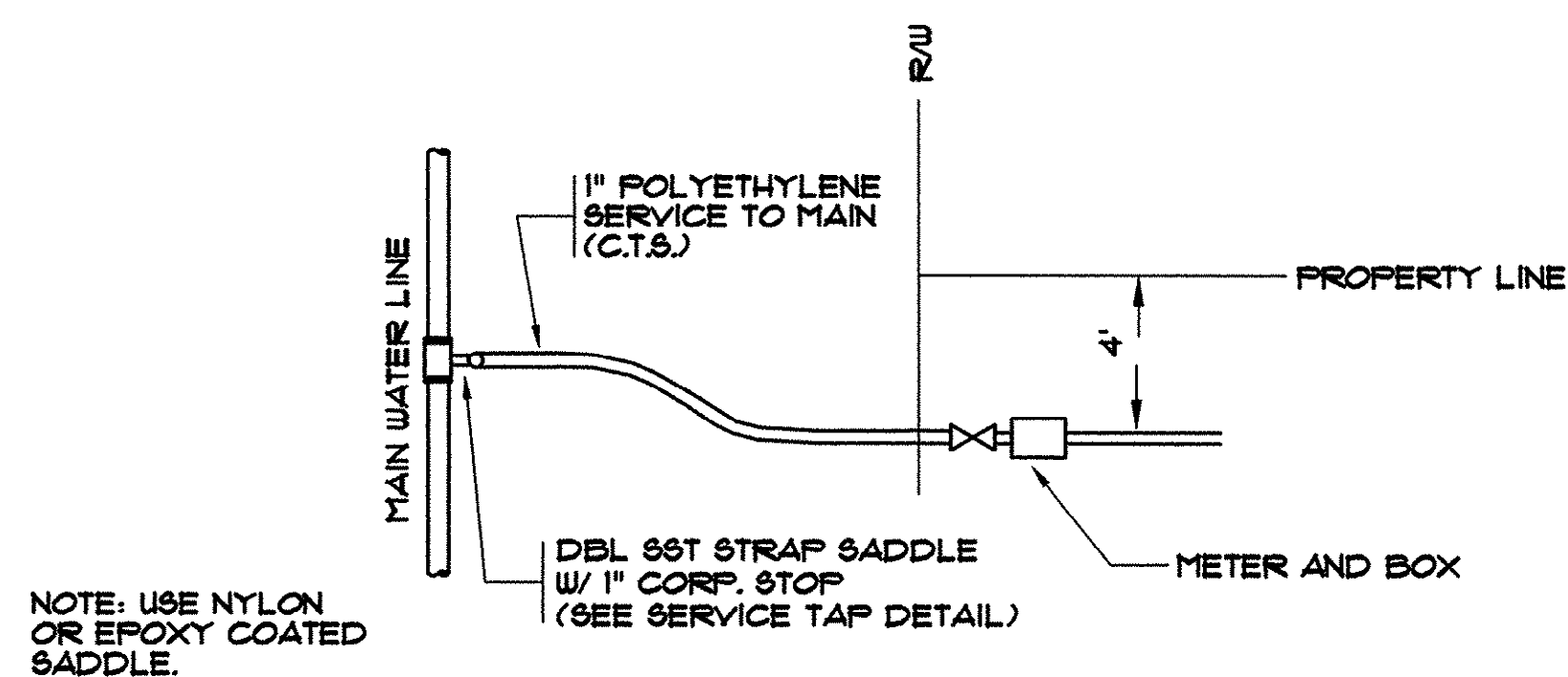
TRENCH SECTION IN TYPICAL NATIVE GROUND CONDITION

N.T.S.



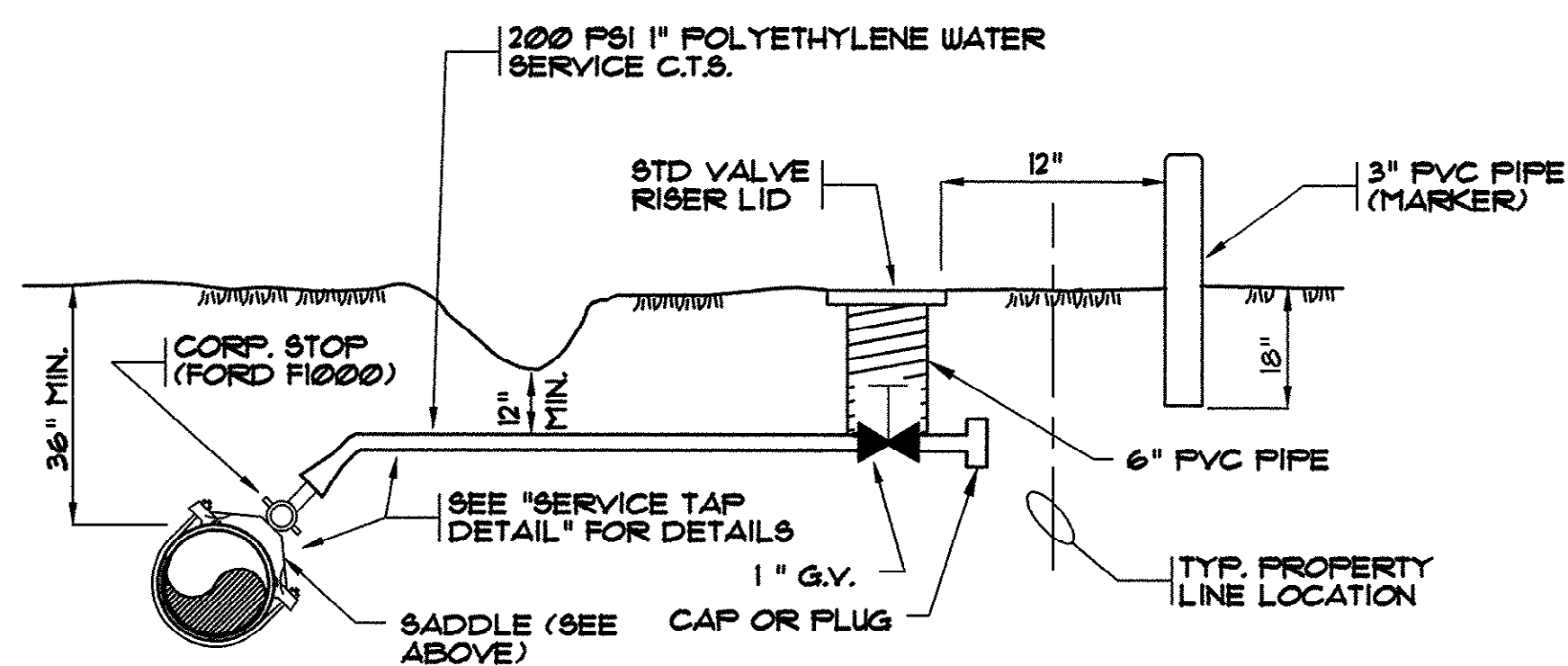
TYPICAL DOUBLE SERVICE CONNECTION

N.T.S.



TYPICAL SINGLE SERVICE CONNECTION

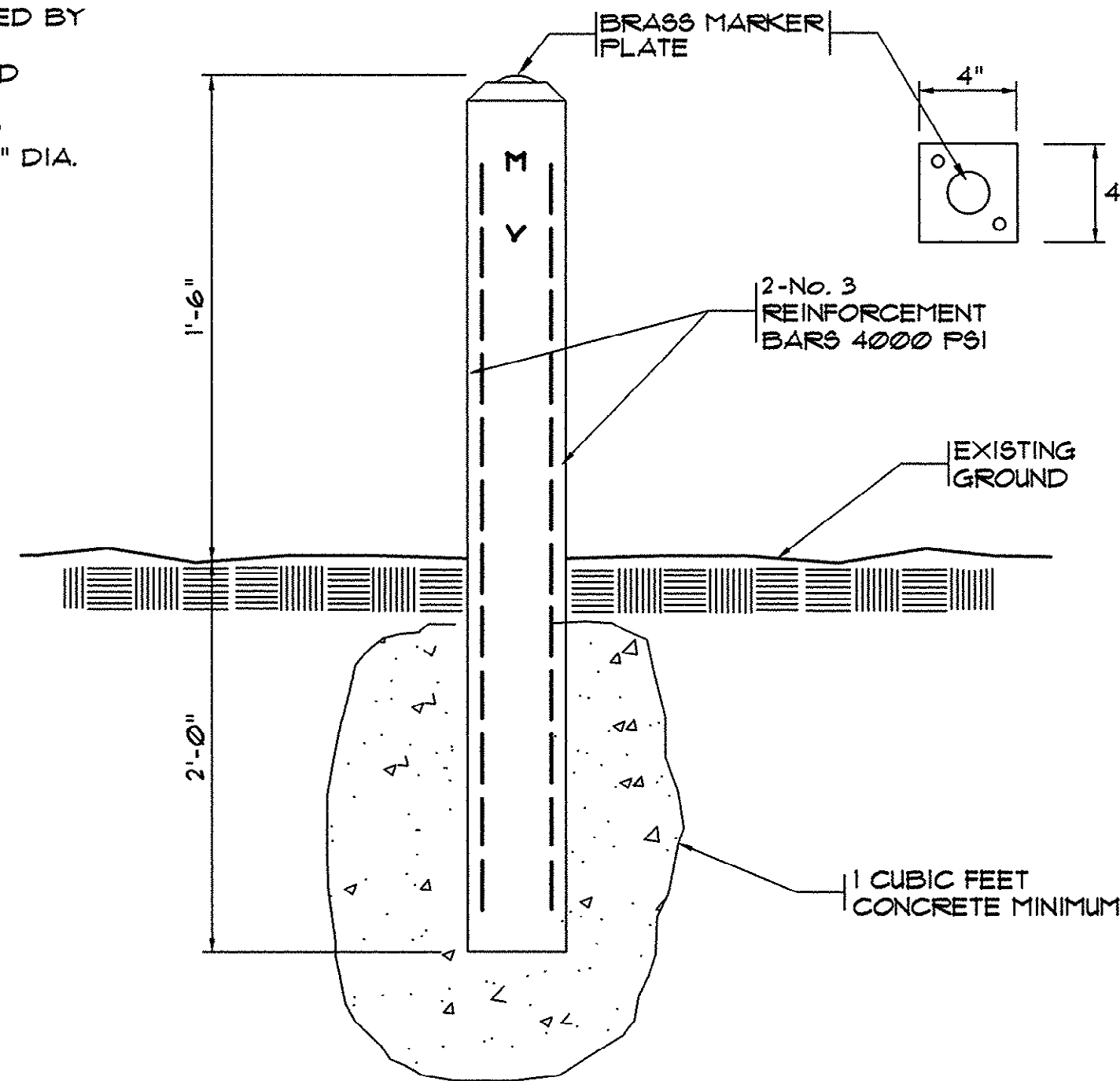
N.T.S.



TYPICAL WATER SERVICE DETAIL

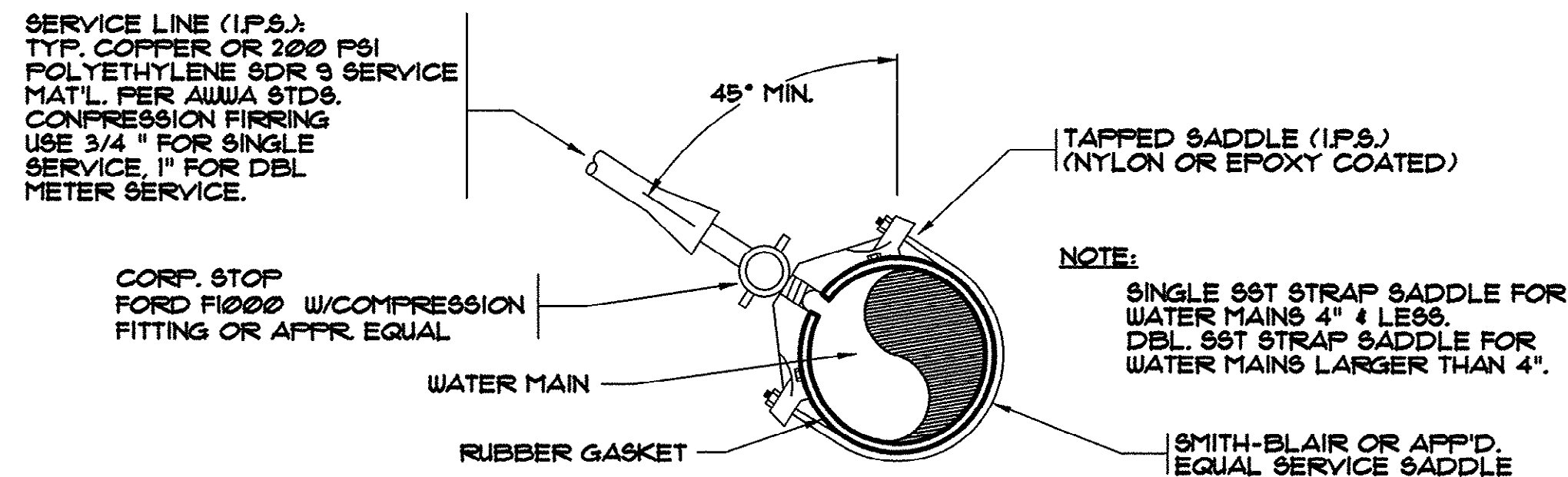
N.T.S.

FOR FUTURE CUSTOMER CONNECTIONS (FOR DEVELOPER PROJECTS ONLY)



VALVE MARKER POST DETAIL

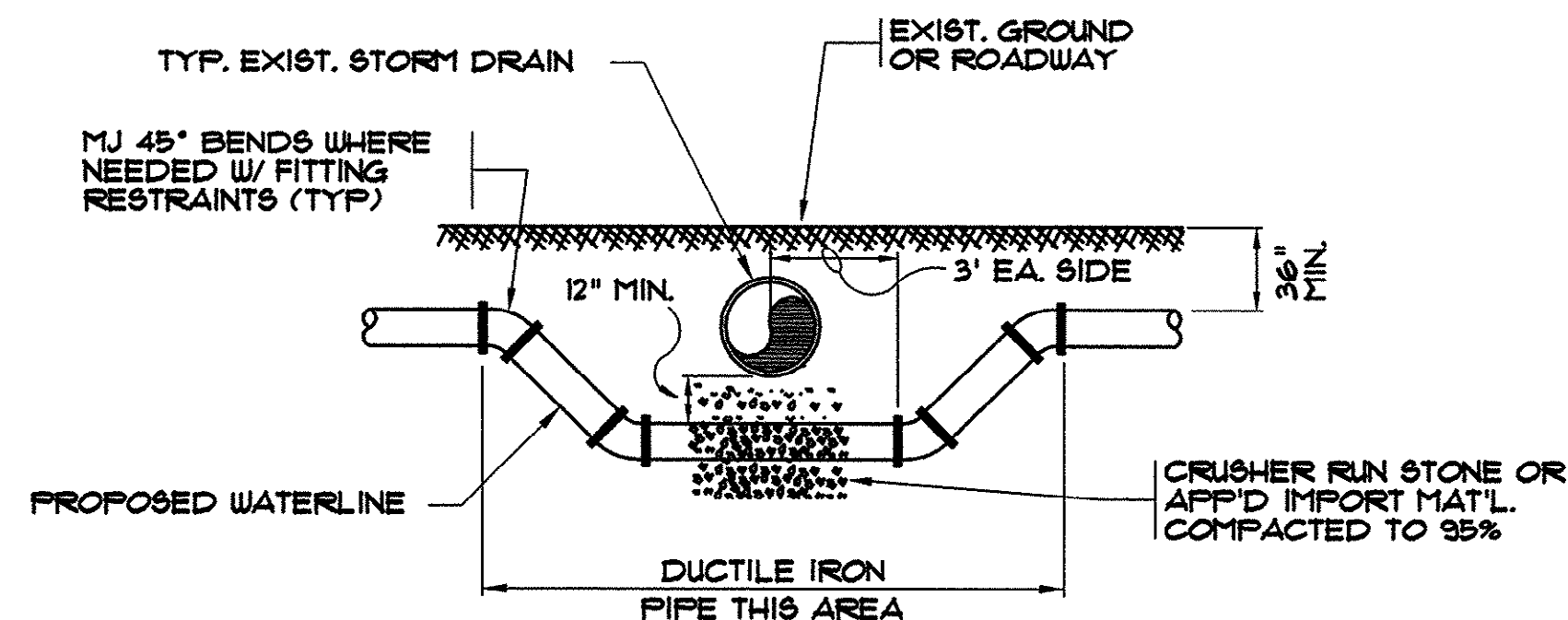
N.T.S.



TYPICAL SERVICE TAP

N.T.S.

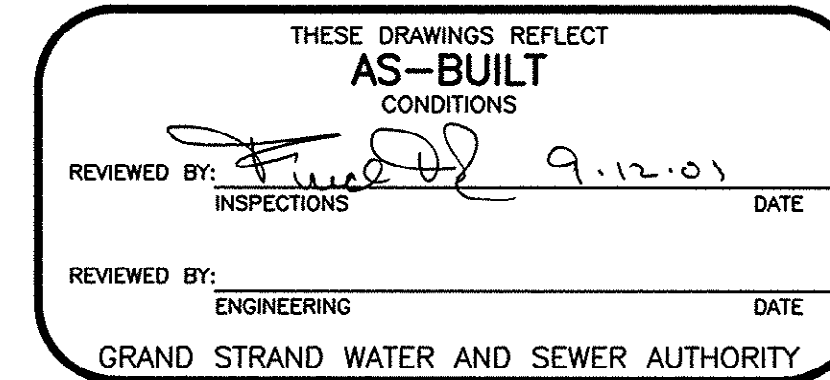
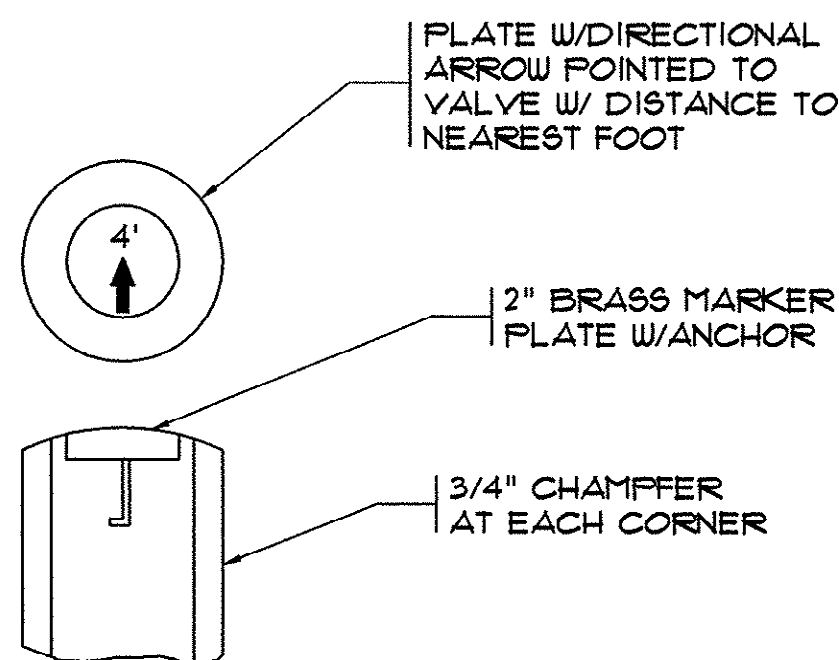
ALTERNATE: DEPRESS WATER LINE WHENEVER POSSIBLE TO ACCOMPLISH CLEARANCE.



STORM DRAIN CROSSING

N.T.S.

- NOTES:
1. INSTALL MARKER POSTS ON EDGE OF THE PROPOSED WATER MAIN EASEMENT.
 2. PROVIDE MARKER POSTS AT ALL VALVES.
 3. ABBREVIATIONS STAMPED ON POST AS FOLLOWS:
MV = MAIN VALVE
BO = BLOW OFF VALVE
 4. MAIN LINE VALVE MARKERS SHALL BE PAINTED BLUE. HYDRANT VALVE MARKERS SHALL BE PAINTED RED



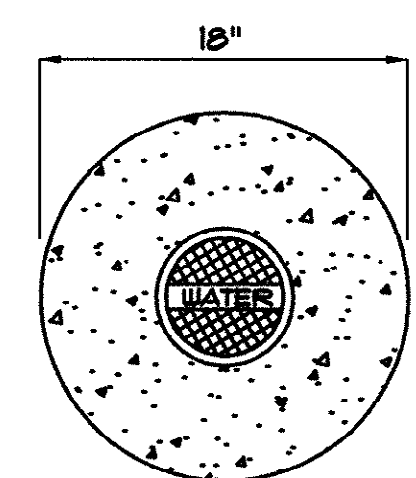
NOTE: TOP OF VALVE BOX AND COLLAR SHALL BE PAINTED BLUE FOR MAIN LINE VALVES, RED FOR HYDRANT VALVES.

PRECAST REINFORCED CONCRETE VALVE BOX COLLAR TO BE OMITTED IN PAVED SECTIONS

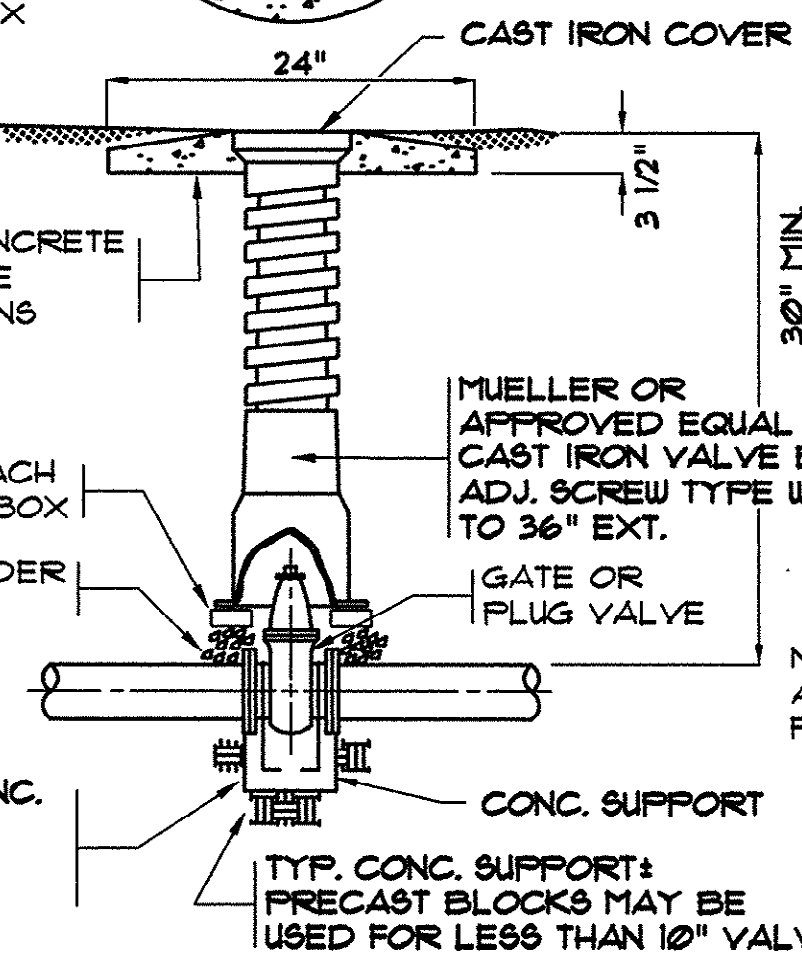
BRICK UNDER EACH SIDE OF VALVE BOX

STONE BEDDING UNDER VALVE BOX

POURED IN PLACE CONC. W/TE DN'S REQ'D. (#4 BARS) FOR 10" AND LARGER VALVES



NOTE: EXTENSION STEM WILL BE REQ'D. TO BE WITHIN 2' OF THE SURFACE IF OPERATING NUT IS OVER 5' BELOW GRAD. EXTENSION SHALL BE PERMANENTLY ATTACHED TO VALVE NUT AND SHALL BE PROVIDED WITH HORIZONTAL SPACERS FOR VERTICAL ALIGNMENT WITHIN THE VALVE BOX.

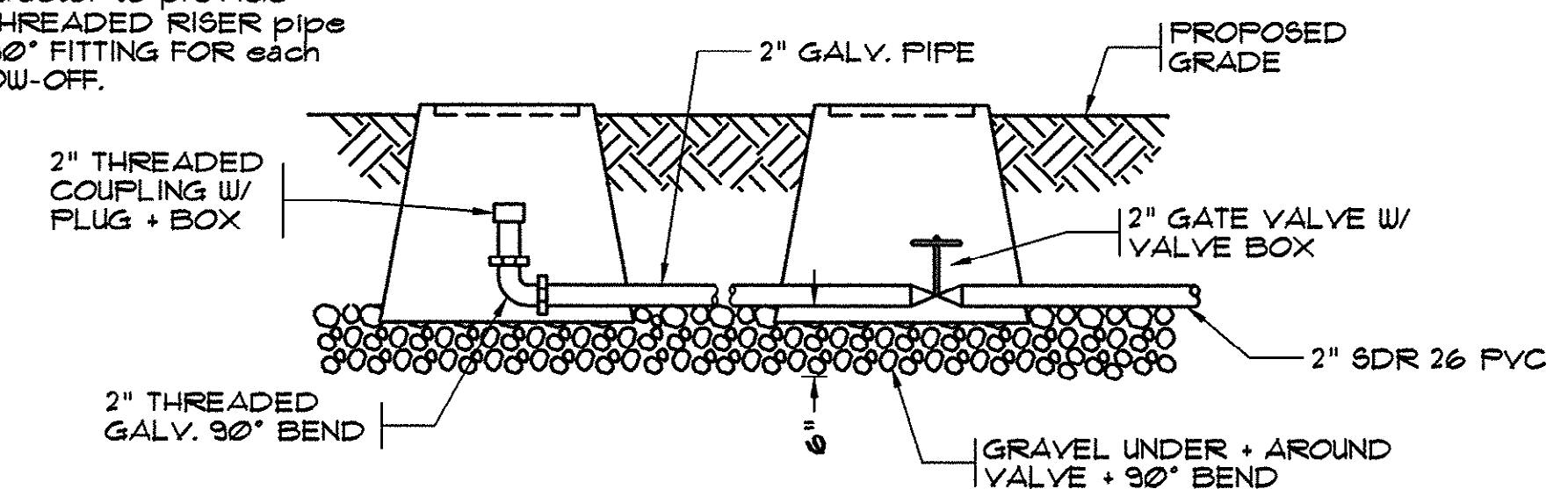


NOTE: SEE TYPICAL FITTING AND JOINT RESTRAINT DETAILS FOR VALVE RESTRAINTS.

TYPICAL VALVE AND VALVE BOX

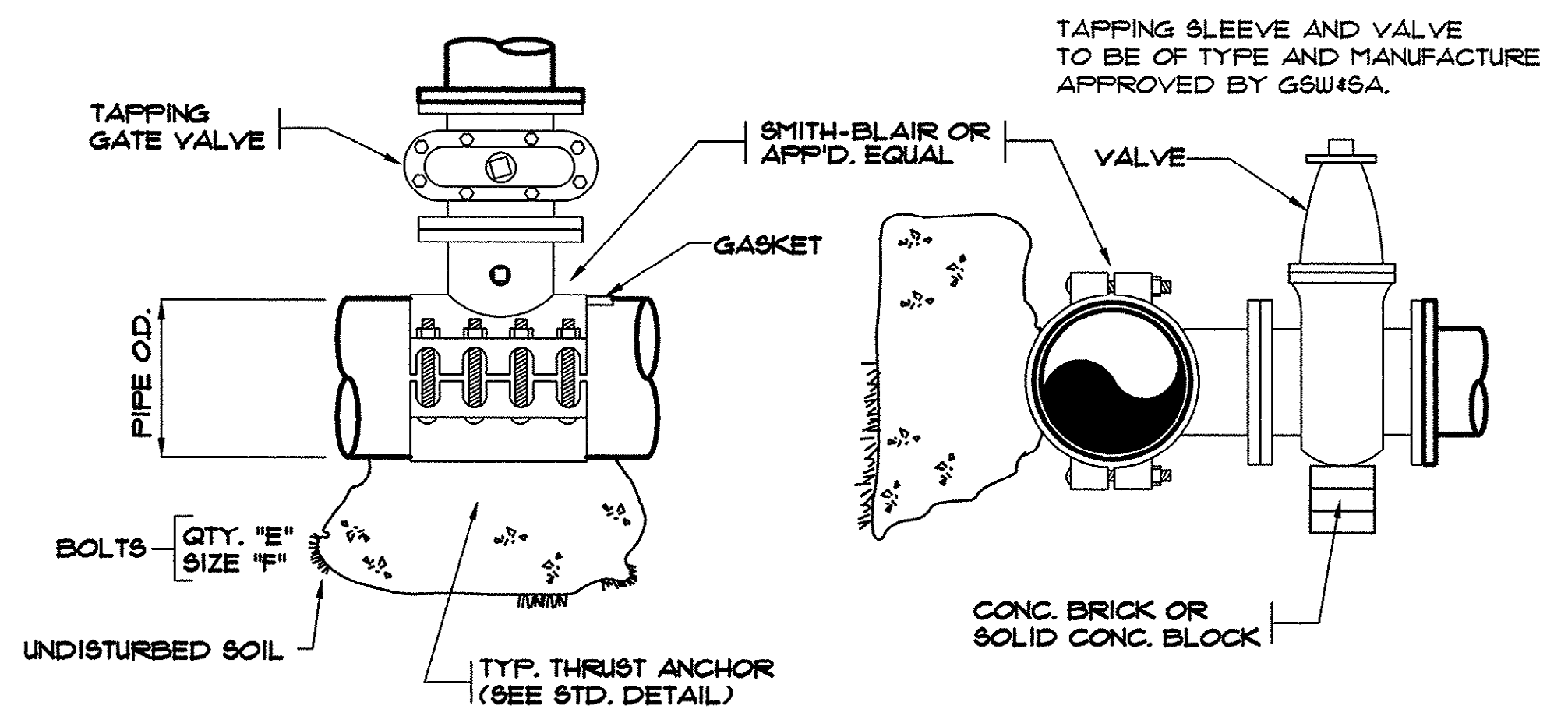
N.T.S.

NOTE: contractor to provide 2" THREADED RISER PIPE W/ 90° FITTING FOR EACH BLOW-OFF.



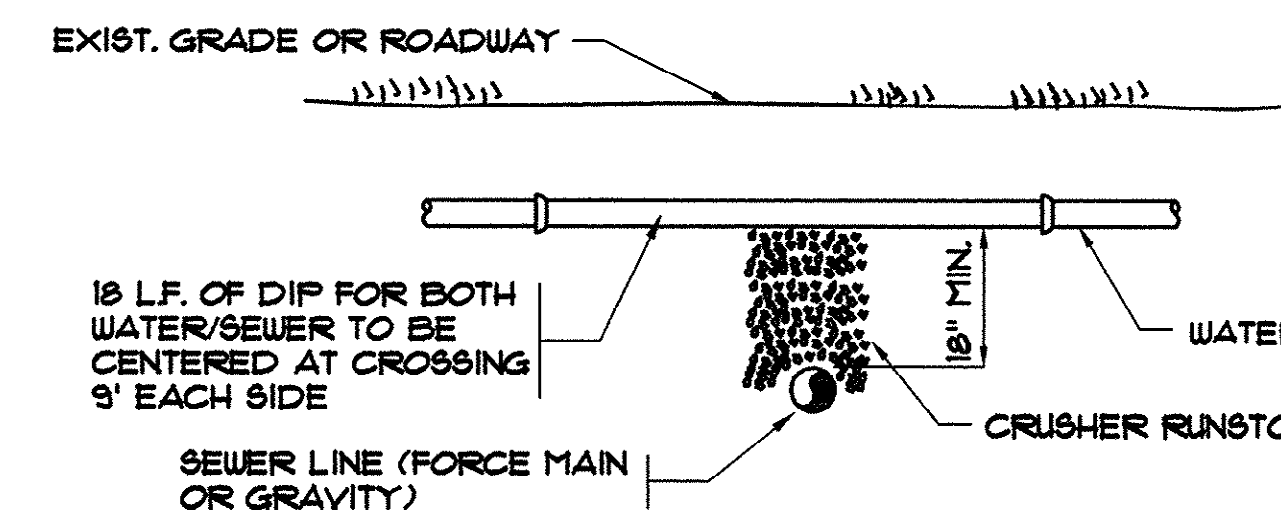
2" BLOWOFF ASSEMBLY

N.T.S.



TYPICAL TAPPING SLEEVE

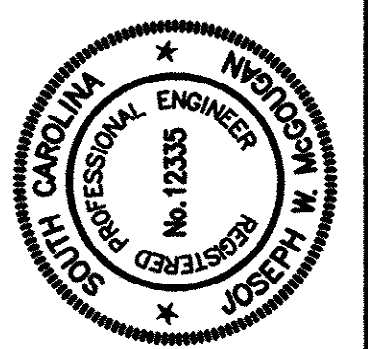
N.T.S.



WATERLINE CROSSING

N.T.S.

REVISIONS	DATE	BY	DESCRIPTION
1	7/16/01	CAR	AS-BUILT



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

WATER DETAILS

EAST TRANSMISSION
WATER MAIN
GRAND STRAND WATER
AND SEWER AUTHORITY

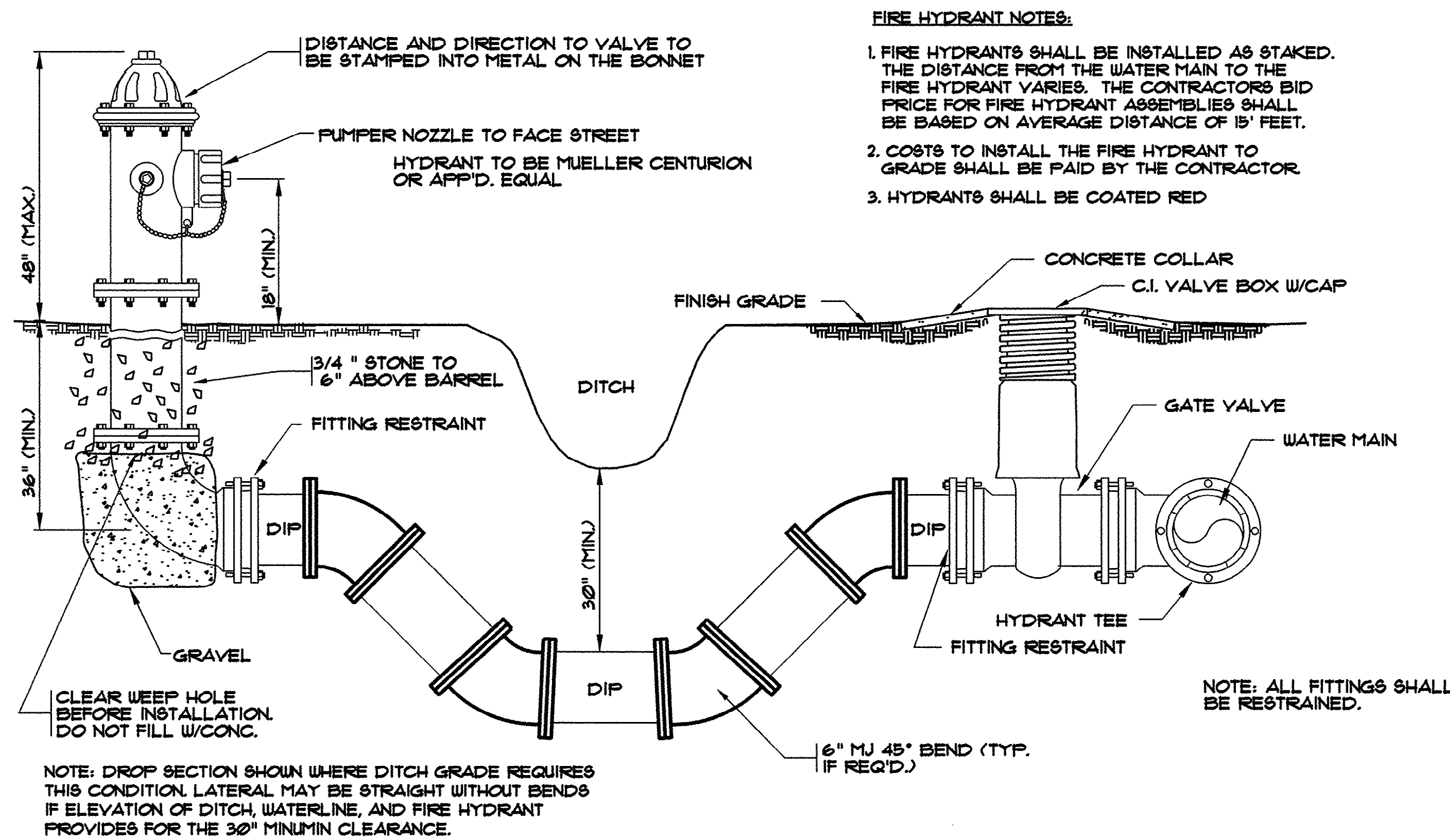
DATE:	DEC., 1999
DRAWN:	WDL
CHECKED:	KLM
SCALE:	AS SHOWN

SHEET NO.

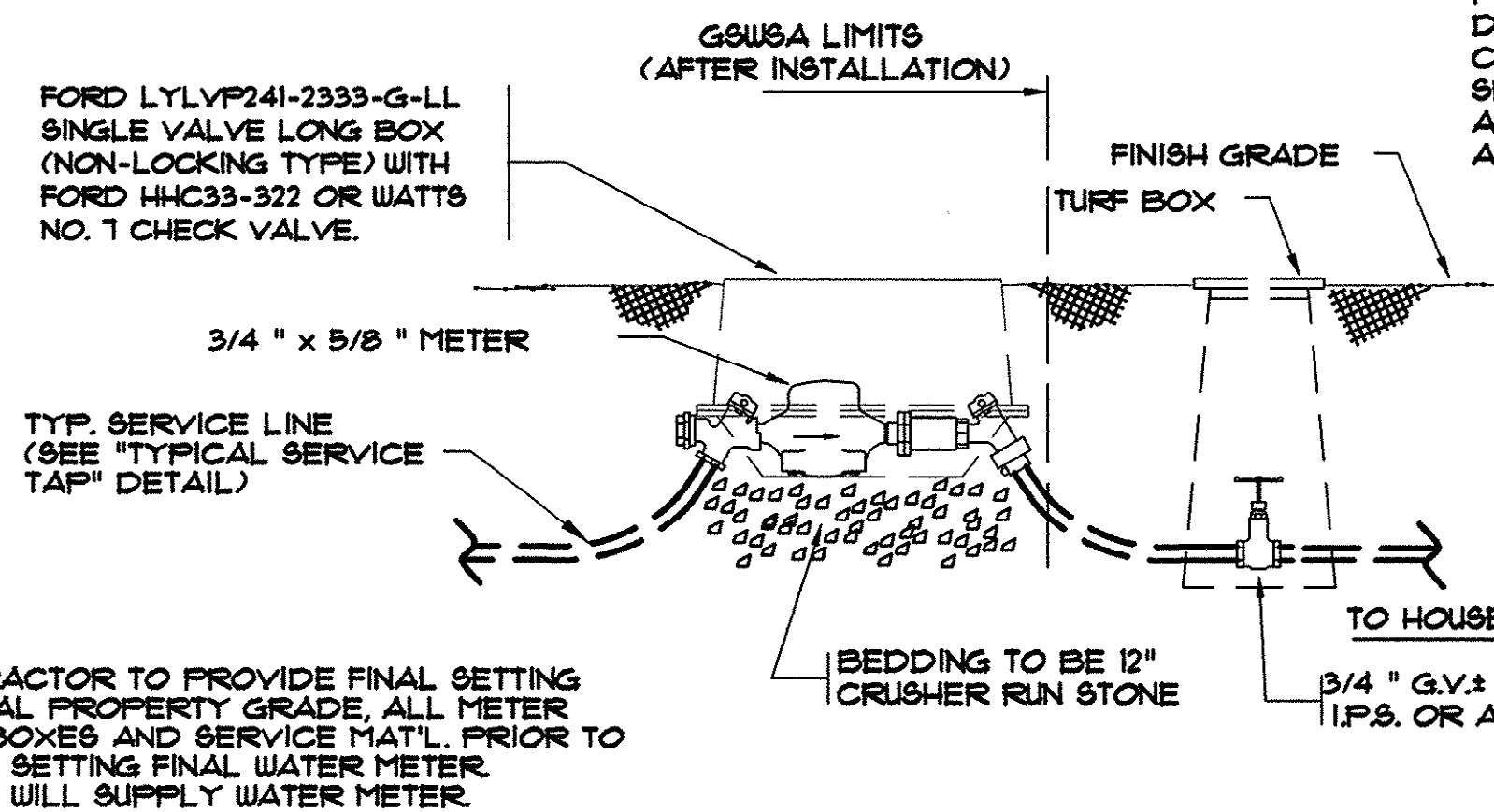
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28

14-150-024/28

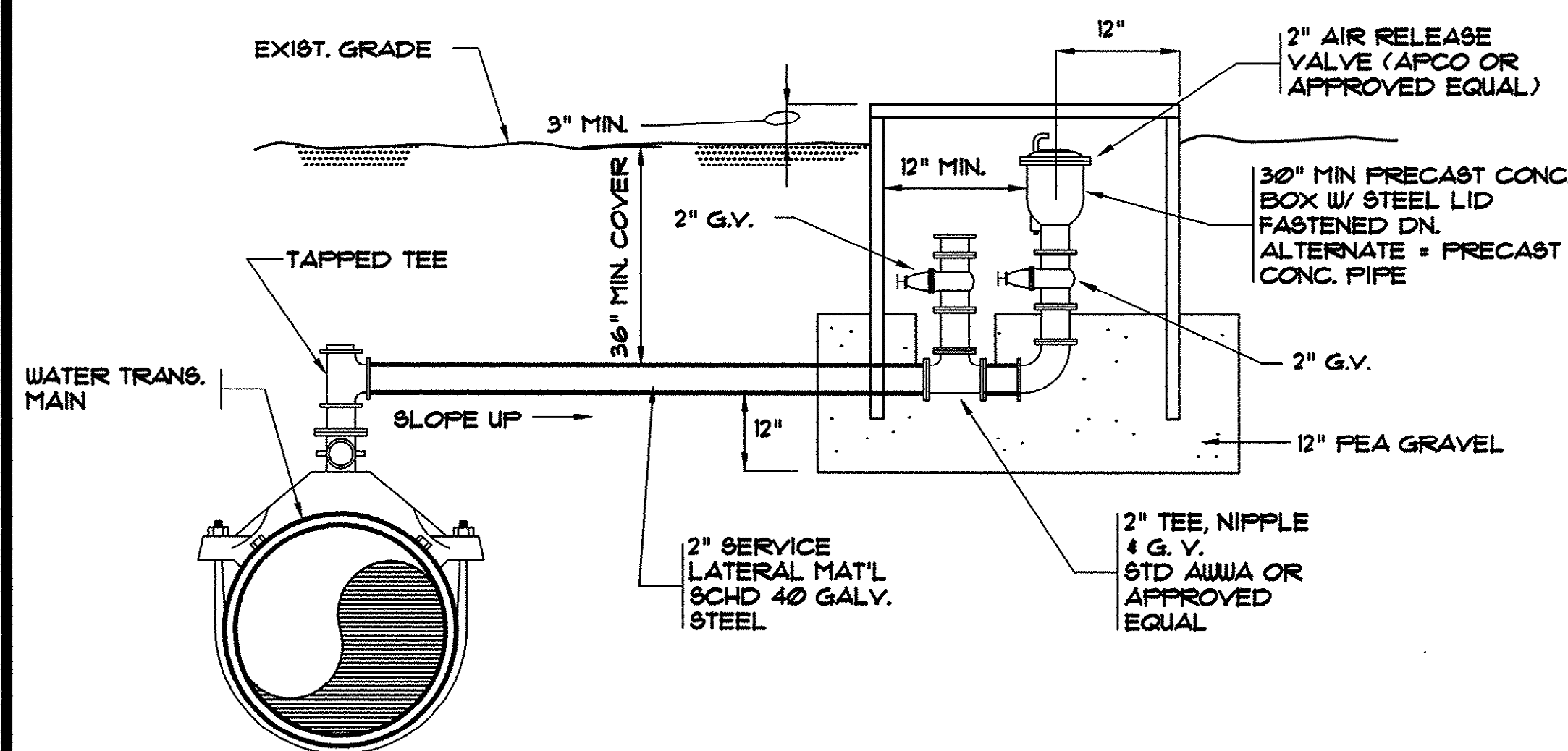
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BY: ARABON
EDITED BY: ARABON
DATE: 09/11/01
TIME: 09:19
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HOBBS, UPCHURCH & ASSOC.



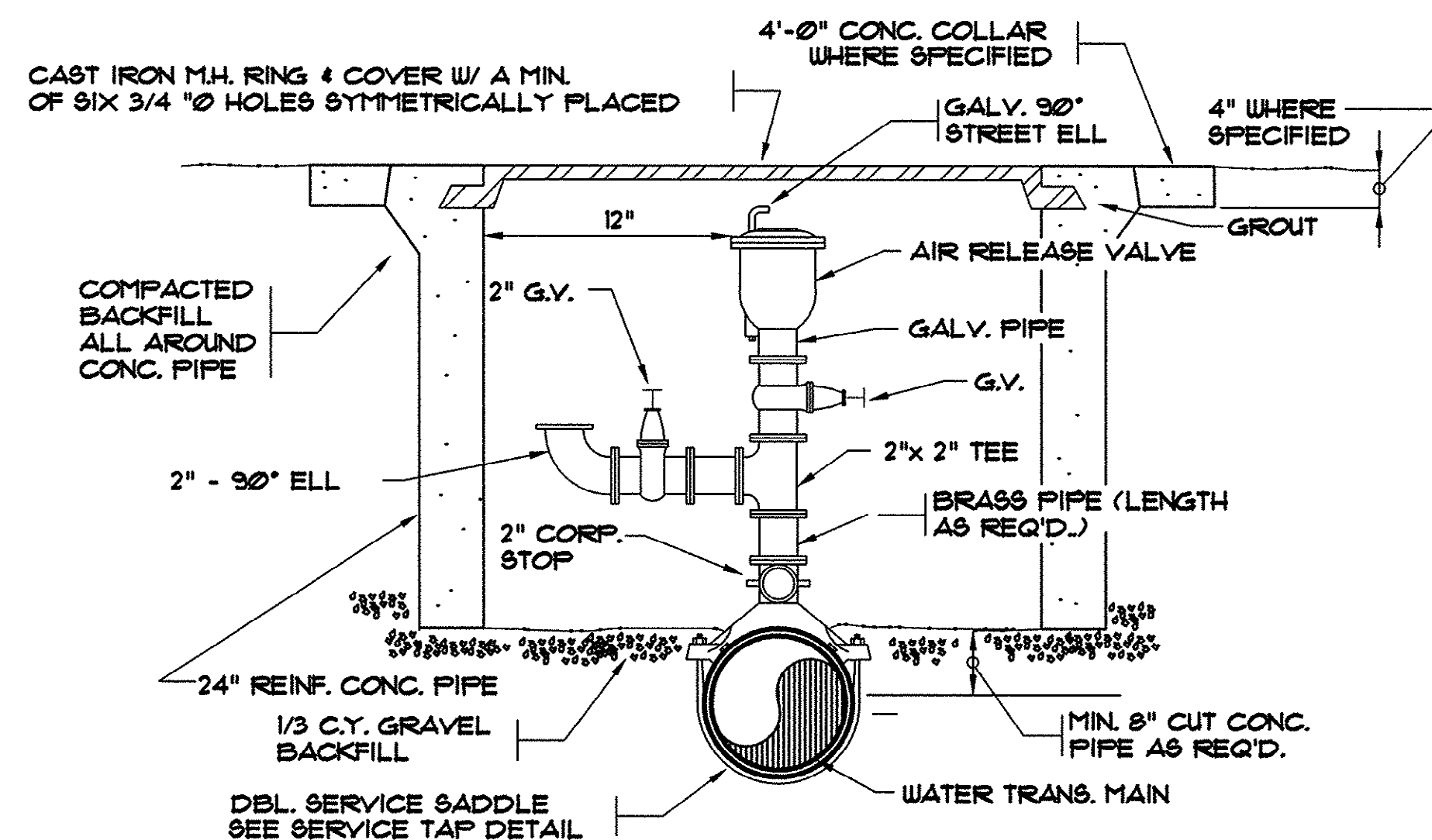
TYPICAL FIRE HYDRANT
NTS.



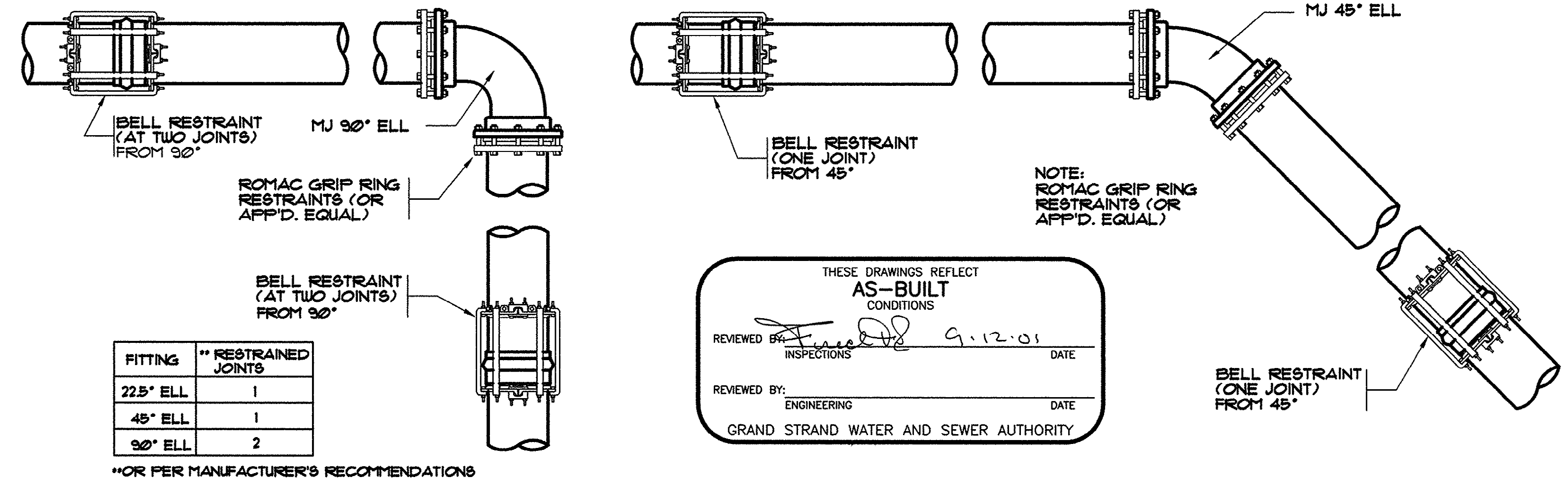
TYPICAL METER BOX
NTS.



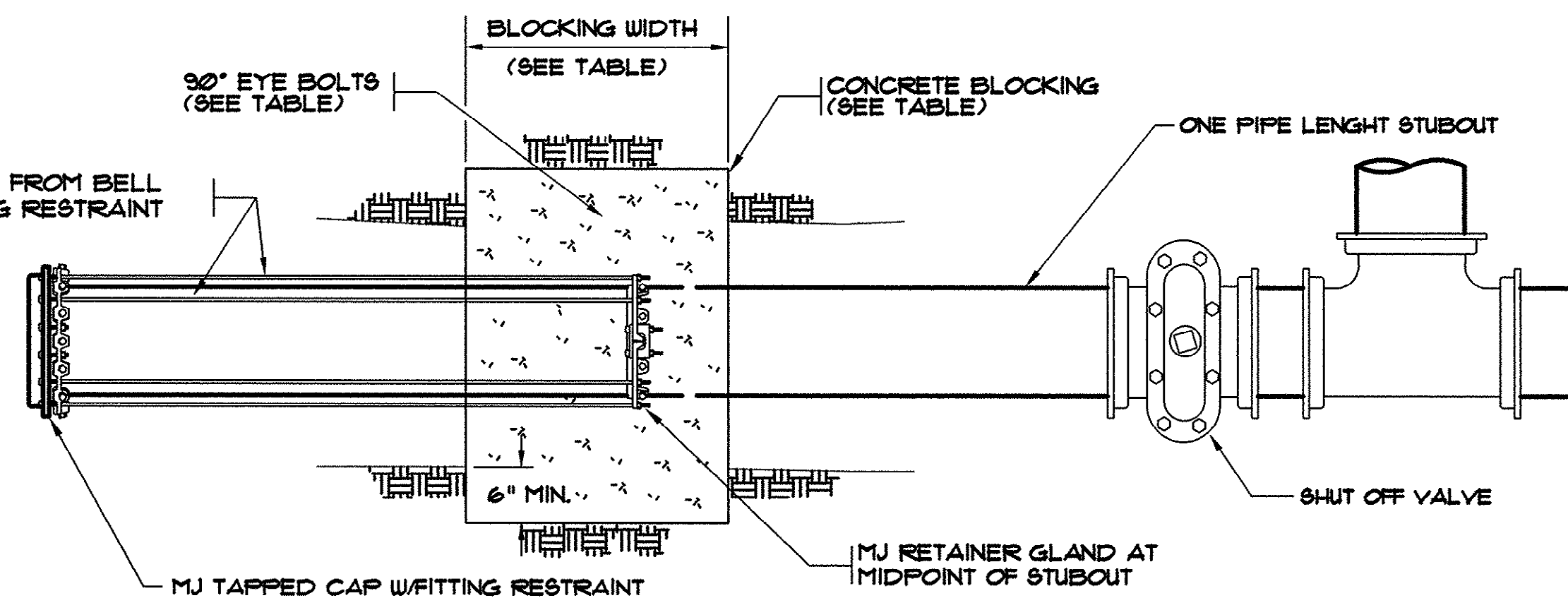
AIR RELEASE VALVE ASSEMBLY
NTS.



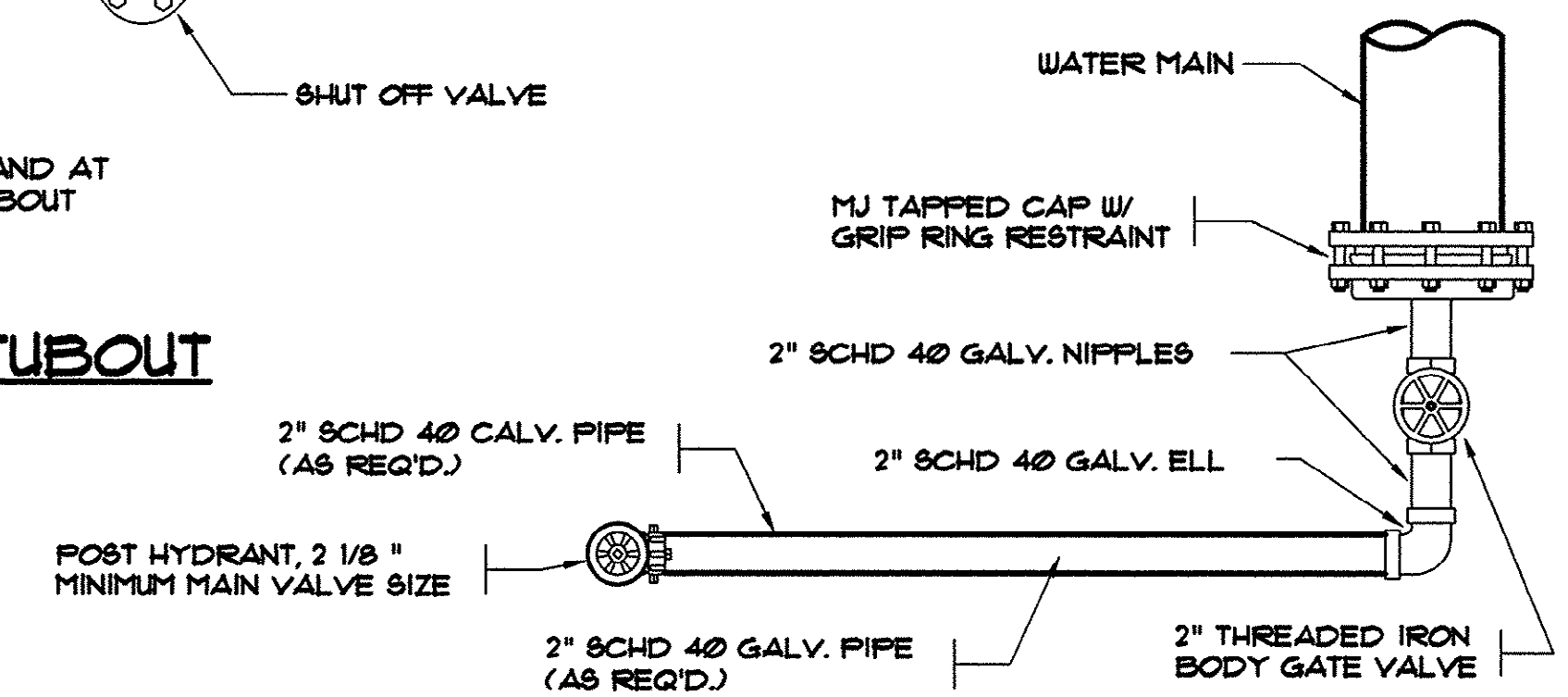
AIR RELEASE VALVE ASSEMBLY
NTS.



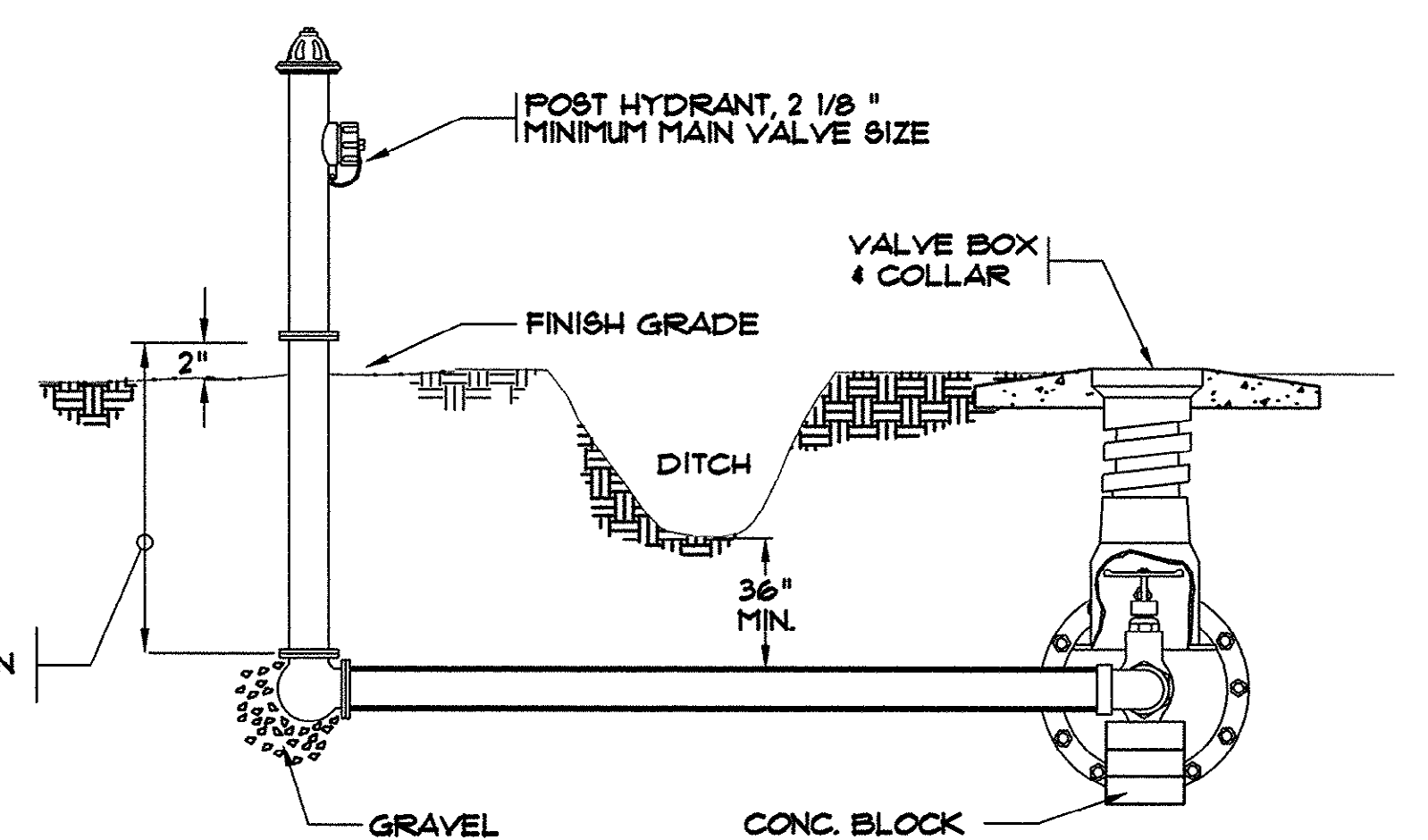
TYPICAL FITTING AND JOINT RESTRAINT
NTS.



TYPICAL FUTURE WATERLINE STUBOUT
NTS.



TYPICAL POST HYDRANT BLOW-OFF
NTS.



TYPICAL POST HYDRANT BLOW-OFF
NTS.

FIRE HYDRANT NOTES:

1. FIRE HYDRANTS SHALL BE INSTALLED AS STAKED. THE DISTANCE FROM THE WATER MAIN TO THE FIRE HYDRANT VARIES. THE CONTRACTOR'S BID PRICE FOR FIRE HYDRANT ASSEMBLIES SHALL BE BASED ON AVERAGE DISTANCE OF 15' FEET.
2. COSTS TO INSTALL THE FIRE HYDRANT TO GRADE SHALL BE PAID BY THE CONTRACTOR.
3. HYDRANTS SHALL BE COATED RED.

FITTING	** RESTRAINED JOINTS
22.5\" ELL	1
45\" ELL	1
90\" ELL	2

**OR PER MANUFACTURER'S RECOMMENDATIONS

NOTE: IN LINE VALVE BELL RESTRAINTS ARE THE SAME AS 45\" BEND REQUIREMENTS

NOTE: ALL FITTINGS SHALL BE RESTRAINED.

NOTE: METER WILL BE A 5/8\" x 3/4\" POSITIVE TYPE DISPLACEMENT METER CONFORMING TO AWWA SPEC'S. C100-11 KENT ALL BRONZE METER OR APPROVED EQUAL.

NOTE: GATE VALVE AND TURF BOX SUPPLIED BY CONTRACTOR

- NOTES:
- 1) AIR RELEASE VALVE SHALL BE INSTALLED ON THE HIGH POINT OF WATER MAIN.
 - 2) ALL MATERIALS & EQUIPMENT TO BE PER AWWA SPEC'S.
 - 3) AIR RELEASE SHALL BE APCO MODEL 55 OR APPROVED EQUAL.
 - 4) CORP. STOP, BRASS & GALV. PIPE, FITTINGS, AND ANGLE VALVE TO BE SAME DIA. AS AIR RELEASE VALVE INLET.
 - 5) LIMIT OF PAY ITEMS INCLUDES SERVICE SADDLE.

THESE DRAWINGS REFLECT
AS-BUILT
CONDITIONS

REVIEWED BY: *[Signature]* 9.12.01 DATE: _____
INSPECTIONS

REVIEWED BY: _____ DATE: _____
ENGINEERING

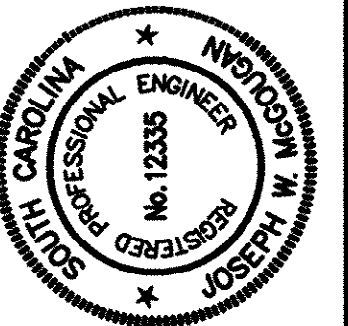
GRAND STRAND WATER AND SEWER AUTHORITY

PIPE SIZE (Inches)	BLOCKING BEARING AREA (ft ²)	BLOCKING WIDTH (Inches)	EYE BOLTS
4	2	24	4
6	4	24	4
8	7	36	6
10	11	36	6
12	15	36	6

OVER 12\" BY THE DESIGN ENGINEER

NOTE: THE MINIMUM DIMENSIONS TABLE IS BASED ON AN ASSUMED SOIL BEARING OF 2000 LBS. PER SQ. FT. IF BEARING VALUE FOR SOIL IS LESS, THEN AREA SHOWN HEREIN SHOULD BE INCREASED ACCORDINGLY.

SYMBOL	DESCRIPTION	DATE	BY
AS-BUILT	AS-BUILT	7/16/01	CAR



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CONSULTING ENGINEERS
MYRTLE BEACH, SOUTH CAROLINA 29577

WATER DETAILS

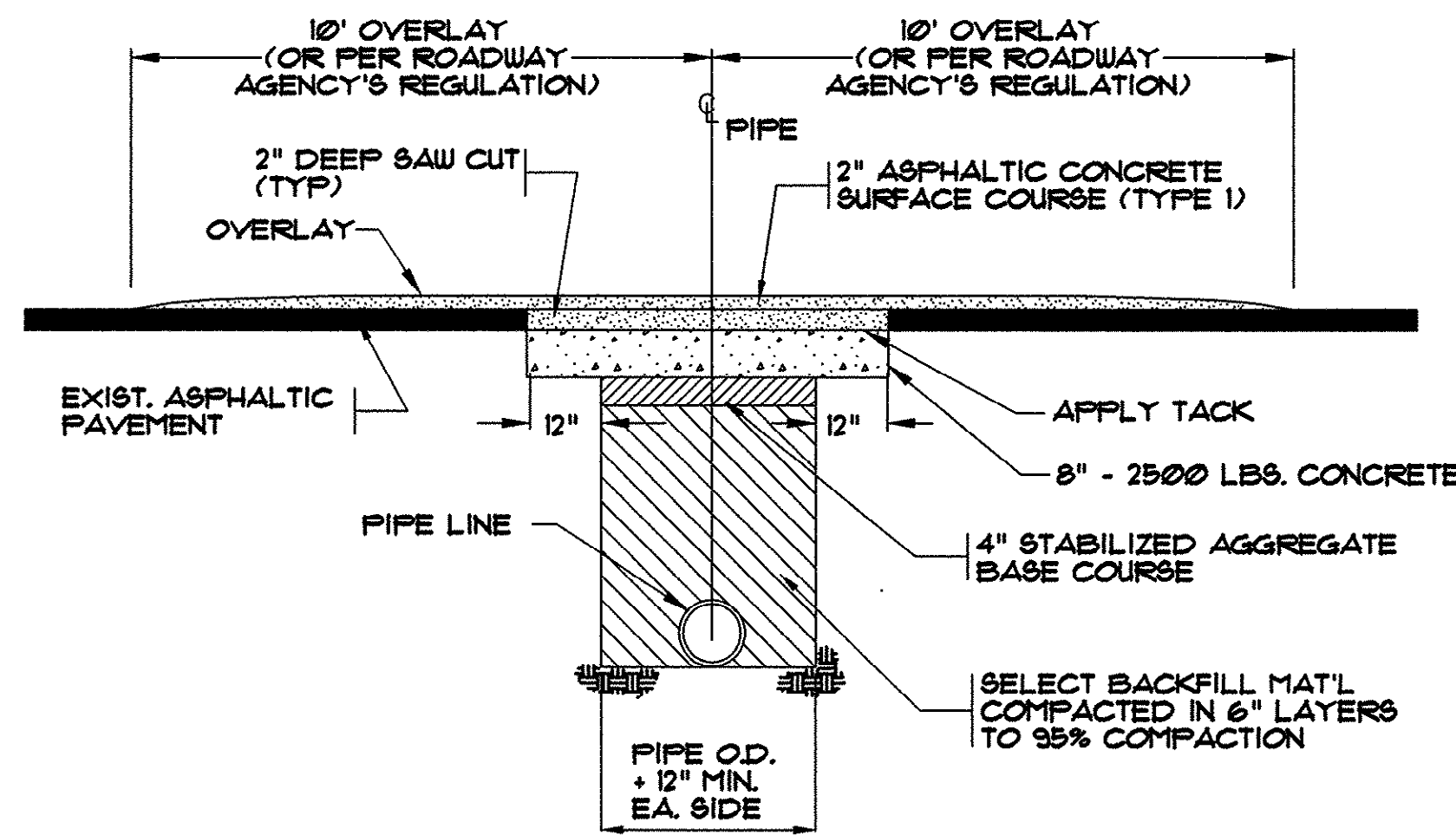
EAST TRANSMISSION WATER MAIN
GRAND STRAND WATER AND SEWER AUTHORITY

DATE:	DEC., 1999
DESIGNED:	WDL
DRAWN:	KLM
CHECKED:	JWM
SCALE:	AS SHOWN

SHEET NO.

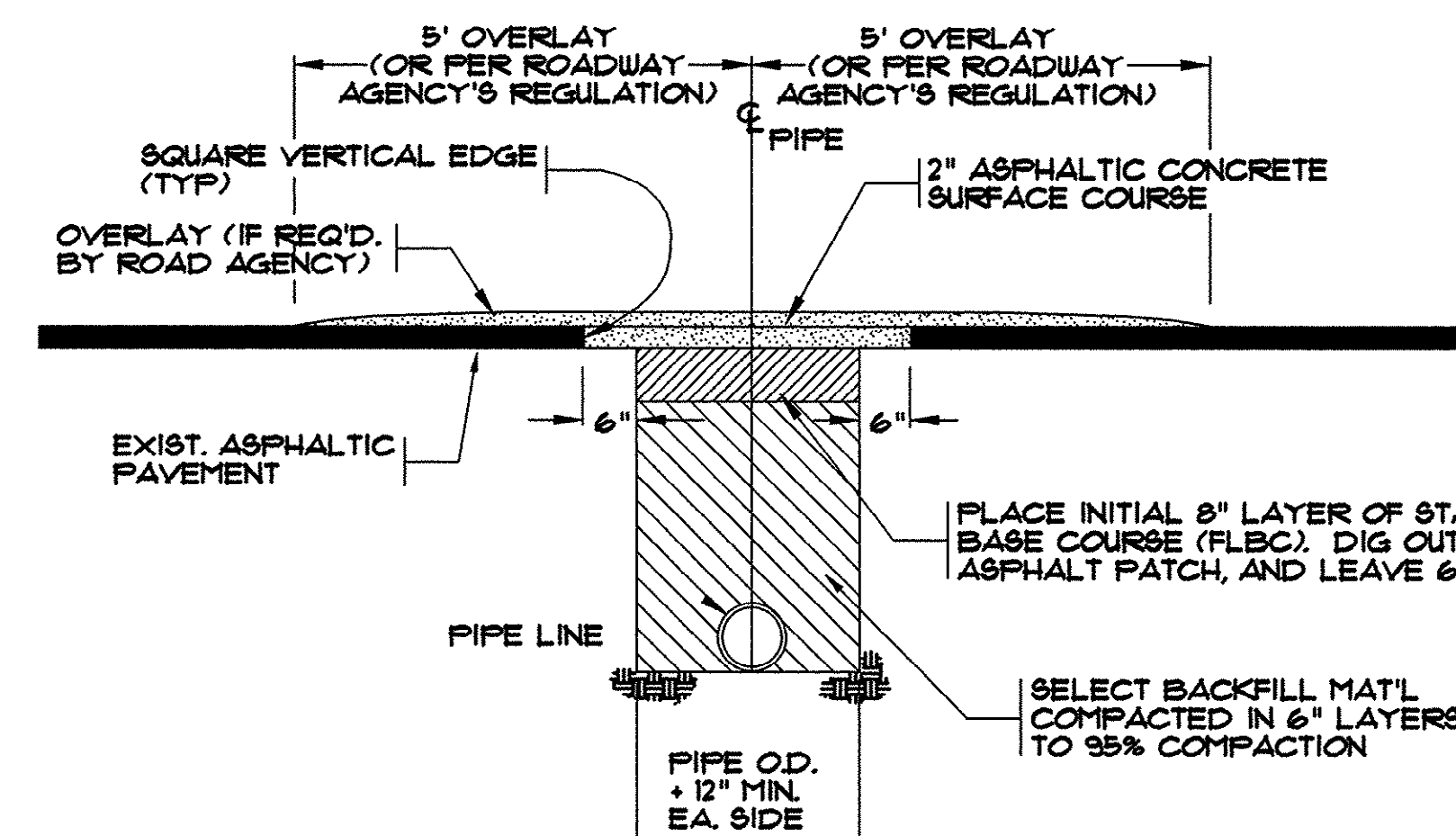
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14-150-025/28



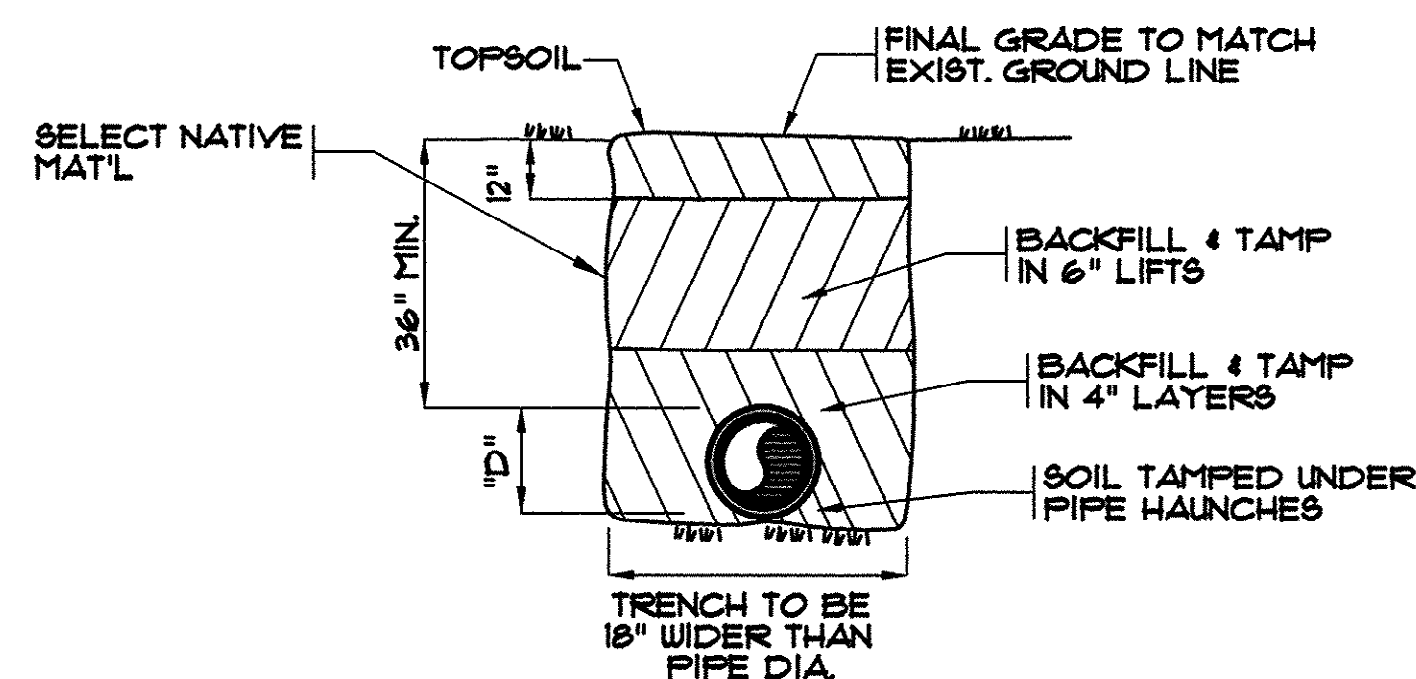
- NOTES:
- 1) PAVEMENT CUT TO EXTEND 12" BEYOND EDGES OF TRENCH AS SHOWN. PAVEMENT SHALL BE CUT TO TRUE LINE AND REMOVED BEFORE TRENCH IS CUT. ALL PAVEMENT REPAIRS TO BE IN ACCORDANCE WITH ROAD AGENCY SPECS.
 - 2) IF PAVEMENT CUT IS ON A HIGH VOLUME MAIN ROAD NEAR A PAVED INTERSECTION, AND THE EDGE OF THE INTERSECTING ROAD IS ONLY A FEW FEET BEYOND THE NORMAL 5' (ONE SIDE DIMENSION) OVERLAY, THE OVERLAY IS TO BE EXTENDED TO THE EDGE OF THE INTERSECTING ROAD.

OPEN CUT REPAIR FOR HIGH VOLUME ASPHALT PAVEMENT

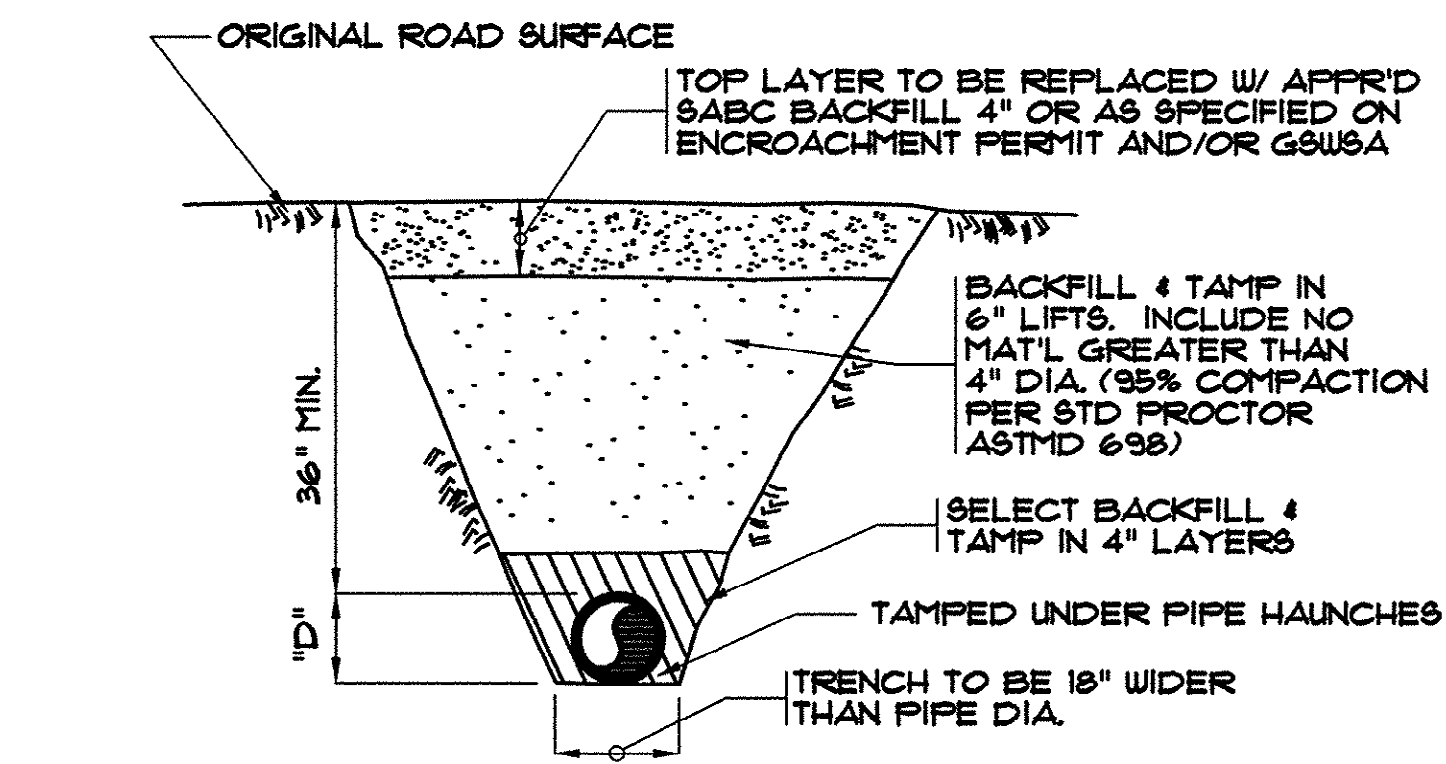


- NOTES:
- 1) PAVEMENT CUT TO EXTEND 6" BEYOND EDGES OF TRENCH AS SHOWN. PAVEMENT SHALL BE CUT TO TRUE LINE AND REMOVED BEFORE TRENCH IS CUT. ALL PAVEMENT REPAIRS TO BE IN ACCORDANCE WITH ROAD AGENCY SPECS.
 - 2) ROAD AGENCY MAY REQUIRE A CUT & PATCH OF TRENCH AREA AND AN OVERLAY OF ENTIRE APRON OR ENTRANCE FROM THE EDGE OF THE MAIN ROAD TO THE EDGE OF THE ROAD RIGHT-OF-WAY (SEE ENCROACHMENT PERMIT).
 - 3) WHERE EXISTING PAVEMENT IS INSUFFICIENT THICKNESS TO DEVELOP TIGHT SEAL WITH NEW SURFACE, NEW PAVEMENT SHALL LAP EXISTING SURFACE WITH AT LEAST A 10' OVERLAP ON BOTH SIDES FOR SMOOTH TRANSITION OR AS PER SPECS. OF ROAD AGENCY.

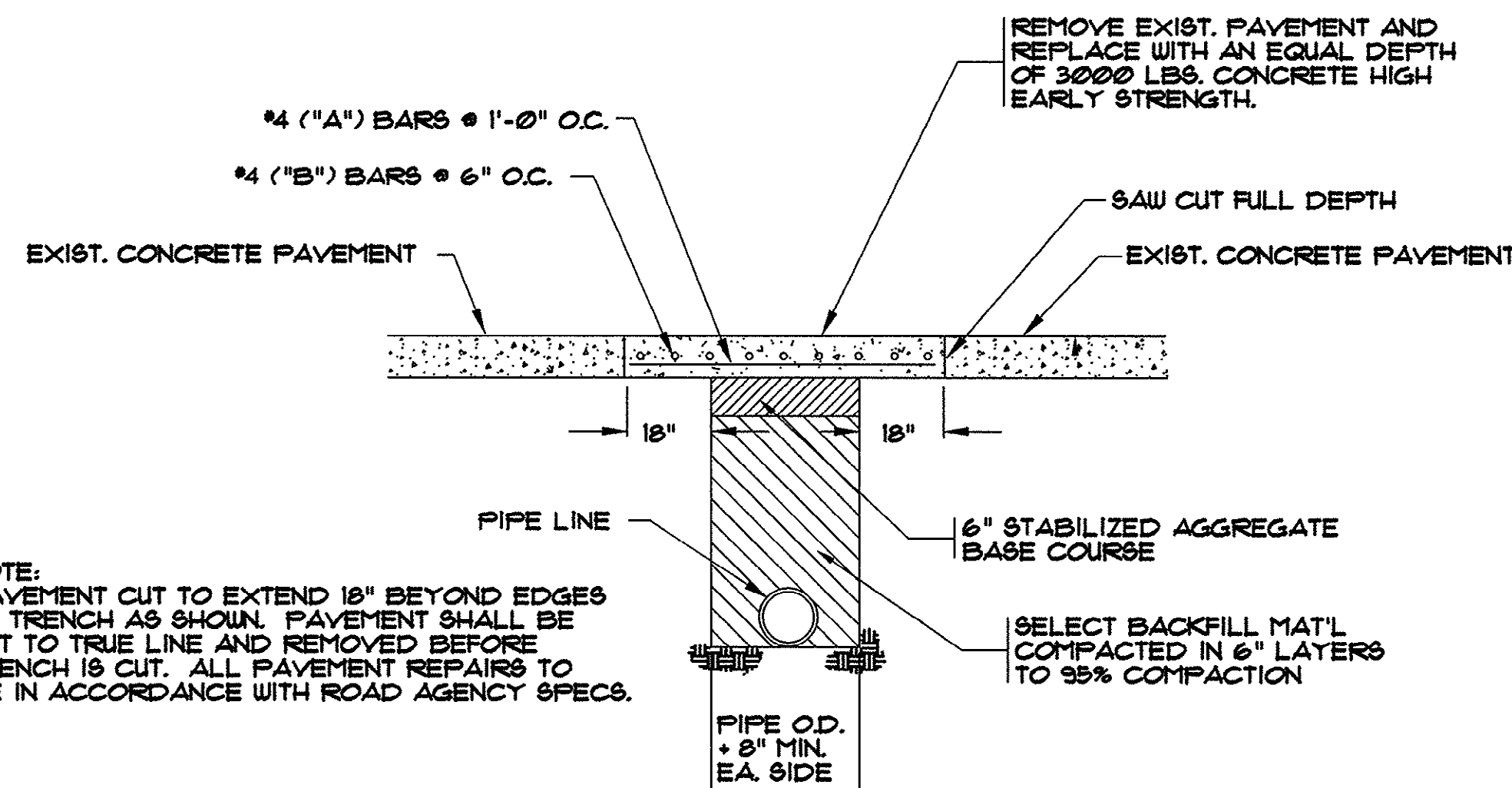
OPEN CUT REPAIR FOR LOW VOLUME ASPHALT PAVEMENT



TYPICAL PIPE BEDDING DETAIL

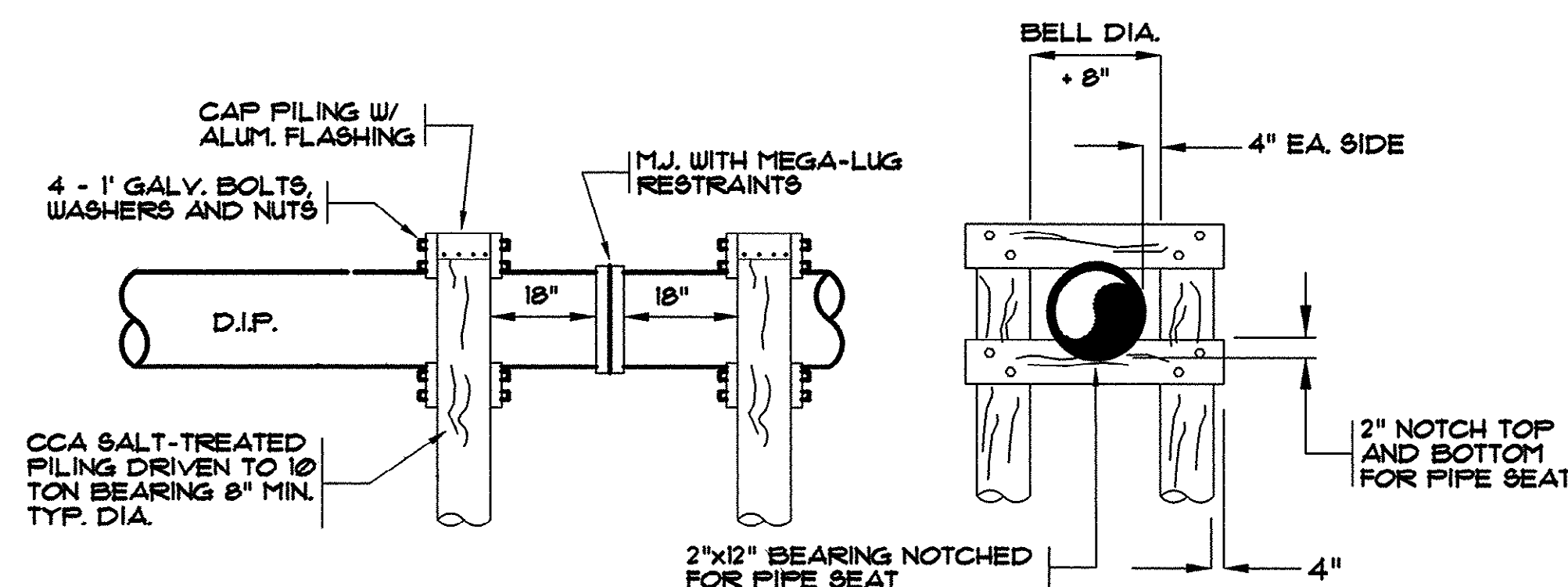


UNPAVED ROADWAY BEDDING DETAIL

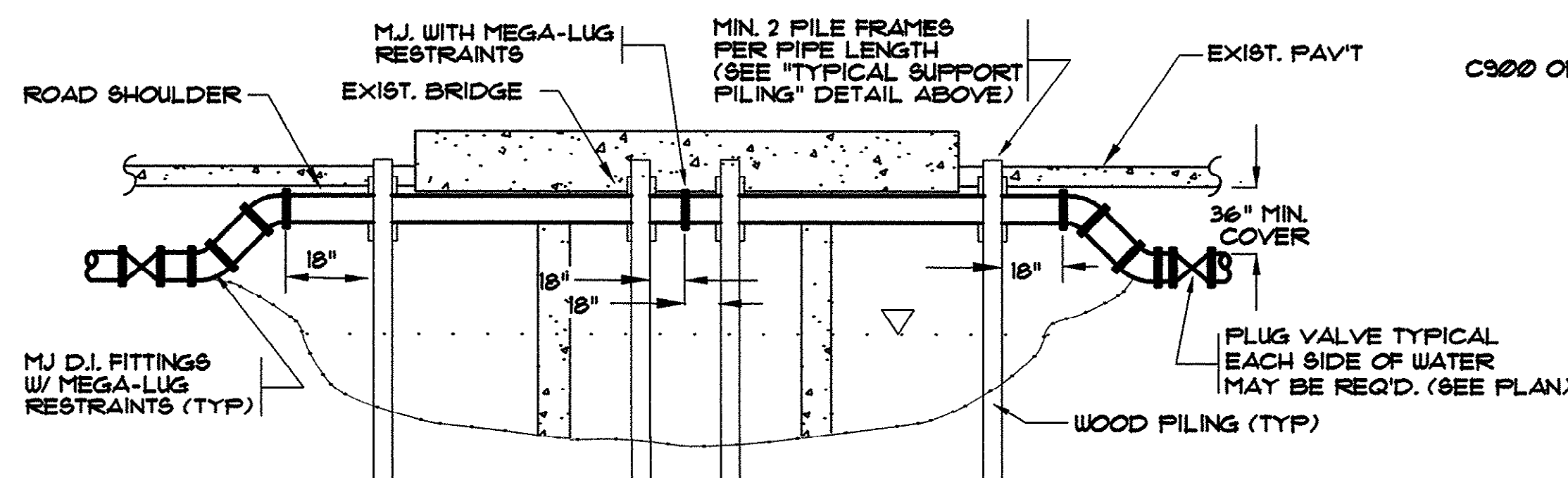


OPEN CUT REPAIR FOR CONCRETE PAVEMENT

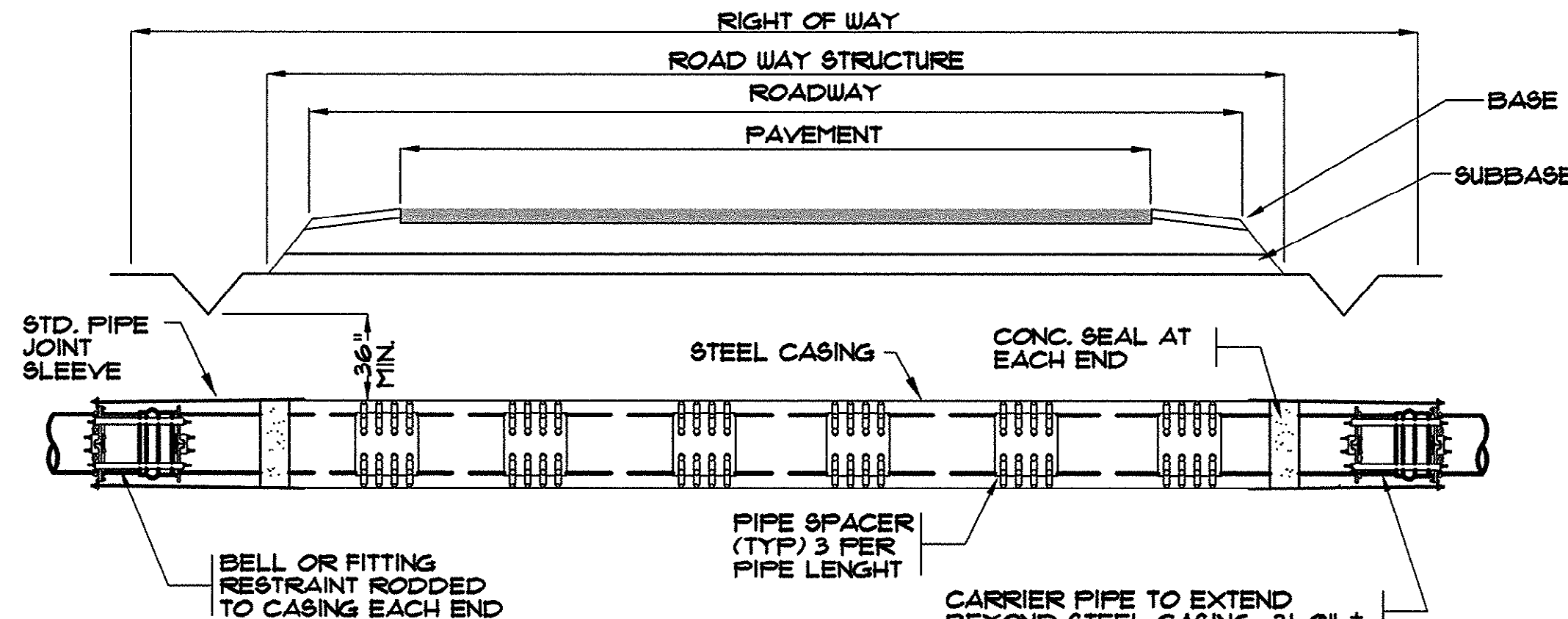
NOTE: GSUSA TO APPROVE CONTRACTORS PROPOSED LOCATION OF PILE FRAMES PRIOR TO INSTALLATION



TYPICAL SUPPORT PILING

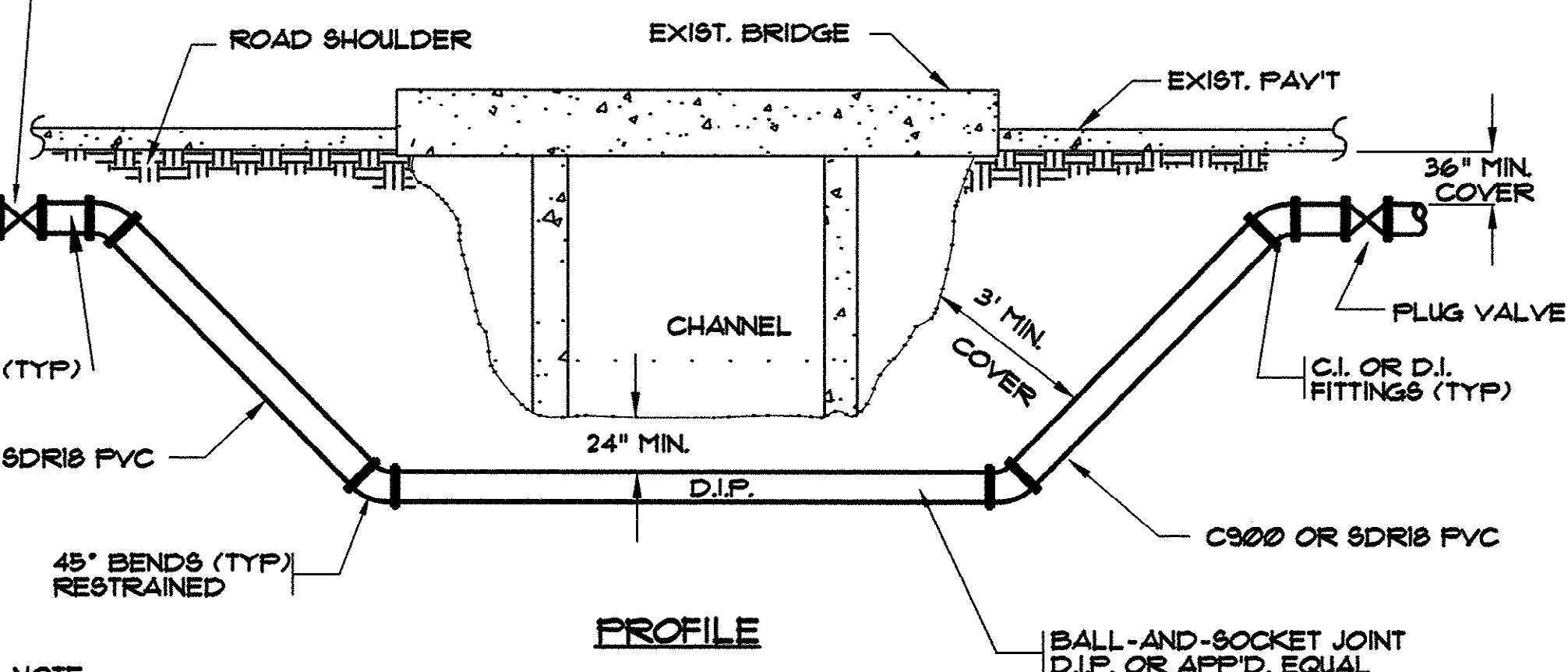
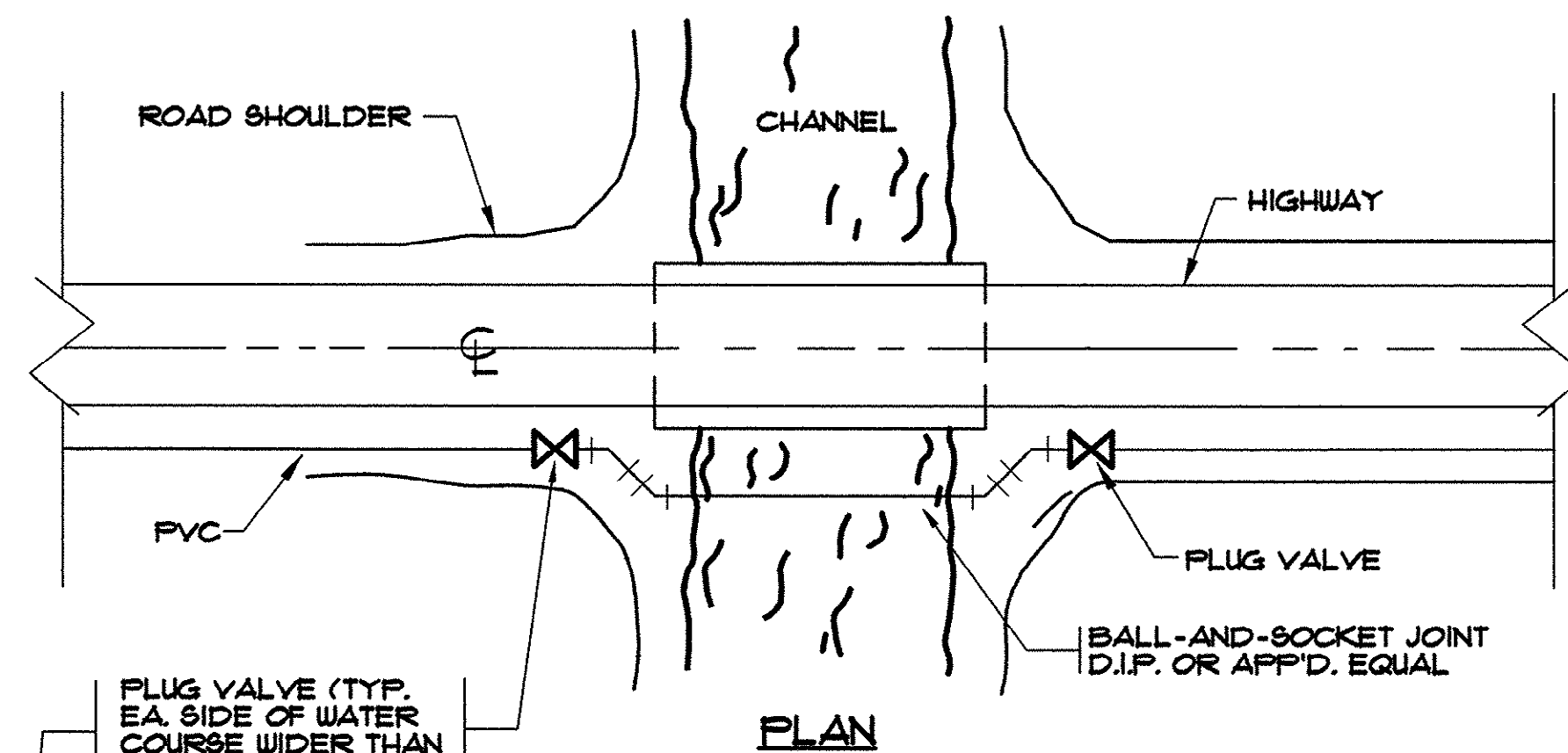


ABOVE CHANNEL DETAIL AT BRIDGE



TYPICAL ROADWAY BORE & JACK

- NOTES:
- 1) STEEL CASING TO EXTEND MIN. 5' BEYOND EACH EDGE OF PAVEMENT.
 - 2) ALL CONSTRUCTION TO BE INSPECTED AND APPROVED BY LOCAL COUNTY OR STATE ROAD DEPARTMENT.
 - 3) CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION AND OBTAINING INSPECTION.
 - 4) SIZE AND WALL THICKNESS OF CASING TO BE APPROVED BY GSUSA AND ROAD DEPARTMENT.
 - 5) PIPE SPACERS TO BE CMI OR APP'D EQUAL. MIN. THREE (3) SPACERS PER PIPE LENGTH.

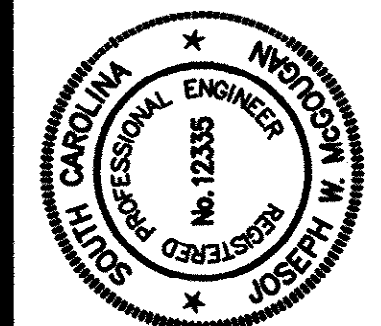


NOTE: PIPE TO BE INSTALLED IN SUCH A MANNER THAT JOINTS WILL BE ON UNDISTURBED SOIL.

- NOTES:
- 1) ALL JOINTS TO BE RESTRAINED.
 - 2) FOR CROSSING WATER COURSES GREATER THAN FIFTEEN (15) FEET IN WIDTH, A BLOWOFF SHALL BE PROVIDED ON THE SIDE OPPOSITE THE SUPPLY SERVICE IF SYSTEM IS NOT LOOPED.

UNDER CHANNEL CROSSING AT BRIDGE

REVISIONS	DATE	BY
AS-BUILT	7/16/01	CAR



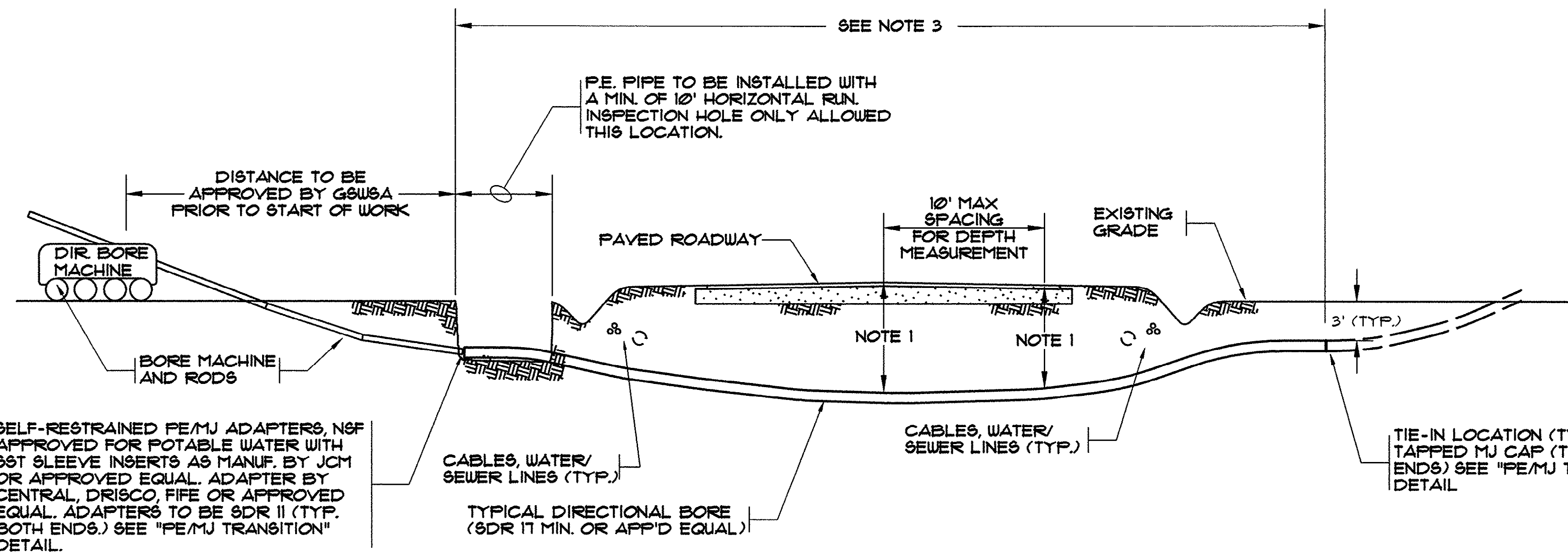
HOBBS, UPCHURCH & ASSOCIATES, P.A.
CONSULTING ENGINEERS
MYRTLE BEACH, SOUTH CAROLINA 29577

WATER DETAILS

EAST TRANSMISSION
WATER MAIN
GRAND STRAND WATER
AND SEWER AUTHORITY

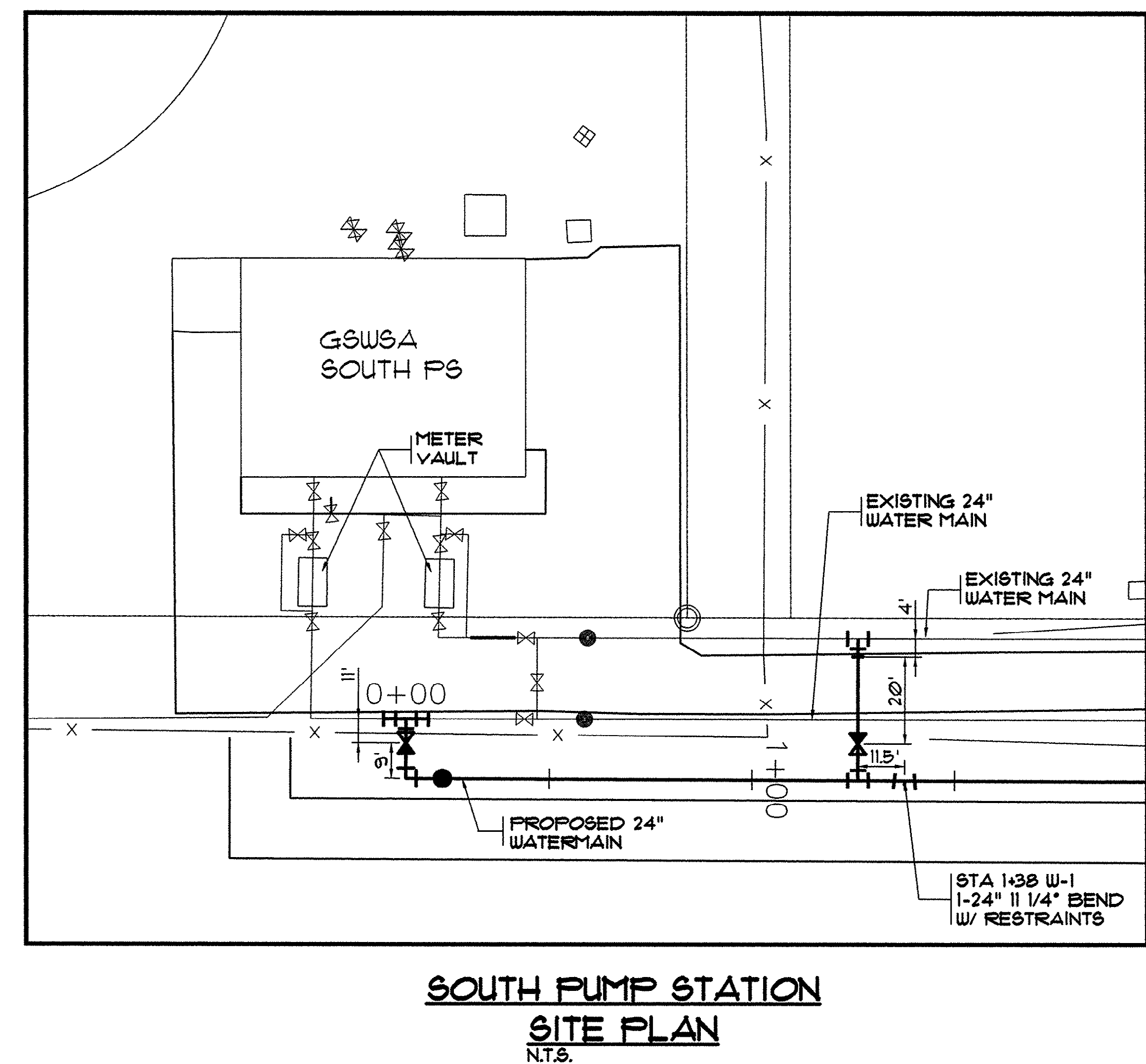
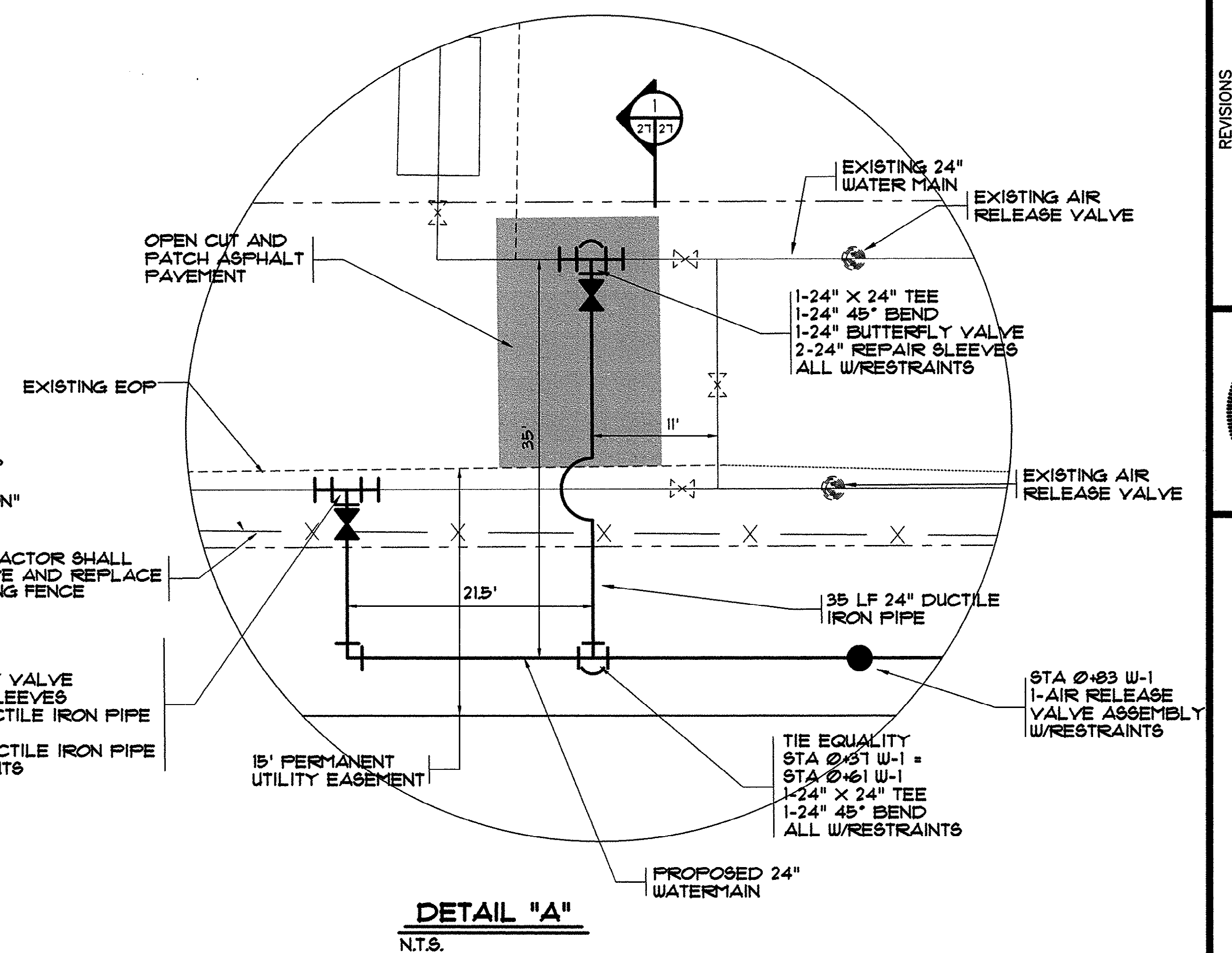
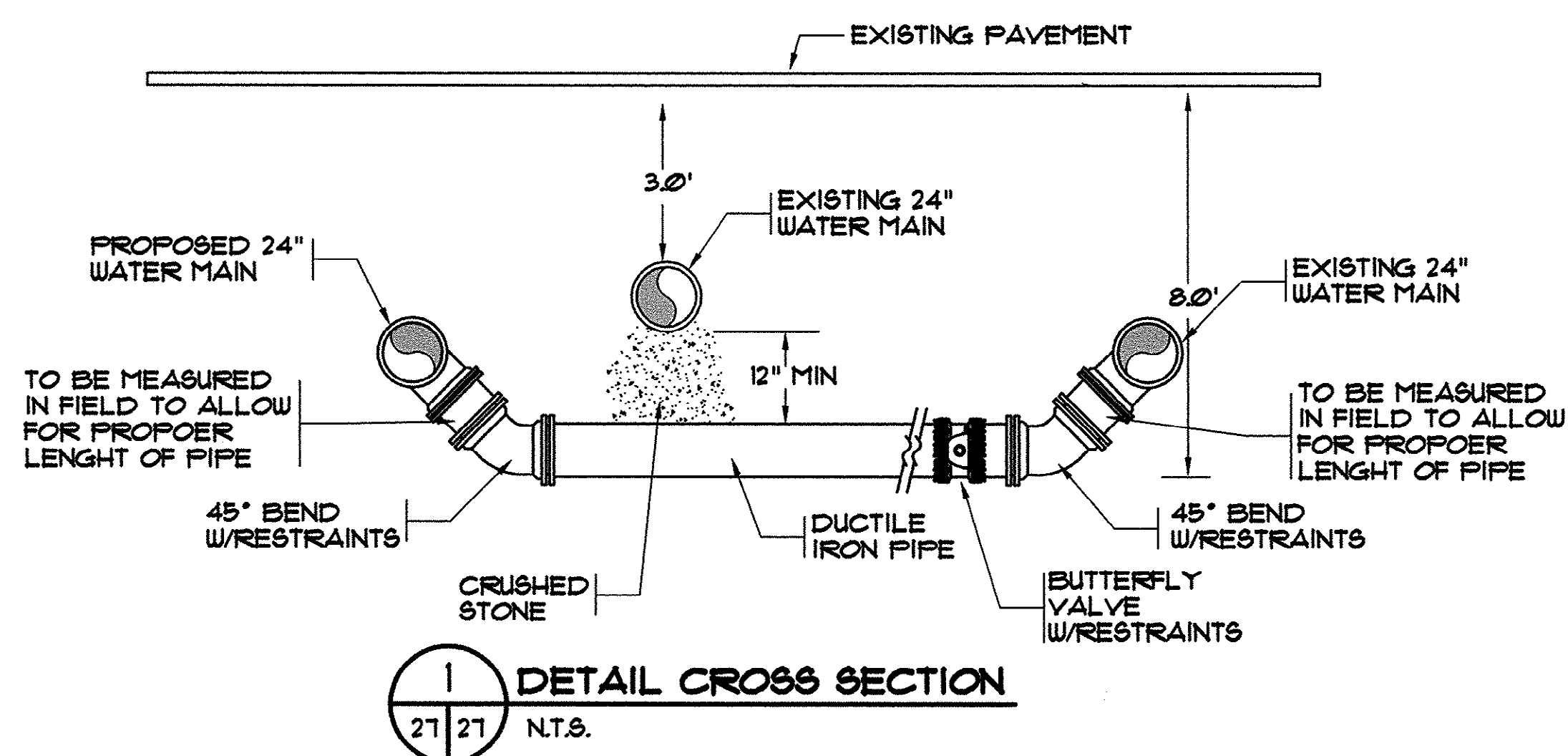
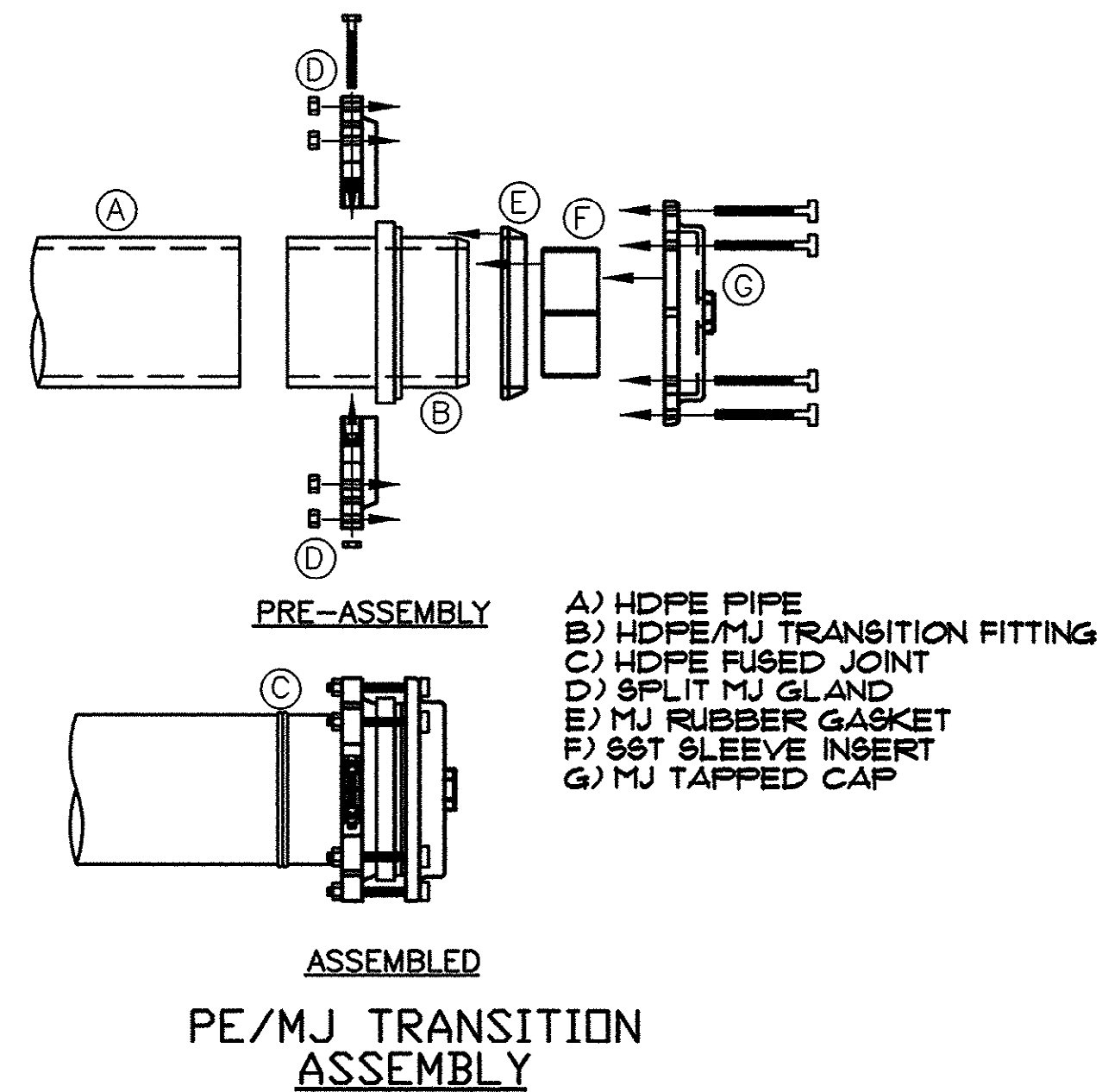
DATE:	DEC., 1999
DESIGNED:	WDL
DRAWN:	KLM
CHECKED:	JWM
SCALE:	AS SHOWN

14-150-026/LB

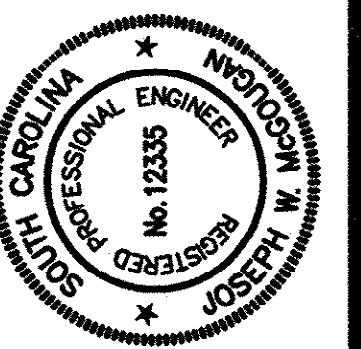


- NOTES:
1. A PROFILE AND PLAN SHALL BE PROVIDED FROM ENTRY TO EXIT FOR EACH DIRECTIONAL BORE SECTION BY THE DIRECTIONAL BORE CONTRACTOR.
 2. ALL BORE SECTIONS SHALL BE HYDROSTATICALLY TESTED PER GSWSA STANDARDS UPON COMPLETION OF INSTALLATION AND PRIOR TO CONNECTION TO THE MAIN PROJECT WATER/SEWER LINE.
 3. LENGTH OF CROSSING, LOCATION OF INSPECTION/OBSERVATION EXCAVATION, NUMBER OF P.E. PIPE JOINTS, LOCATION OF BORE MACHINE, AUGER ENTRANCE LOCATION, AND TIE-IN POINTS ARE TO BE APPROVED BY GSWSA PRIOR TO ANY START OF WORK OR ORDERING OF MATERIALS.
 4. THIS DETAIL IS ALSO APPLICABLE TO STREAMS, WETLANDS, LARGE STORM DRAINS, AND SIMILAR APPLICATIONS FOR DIRECTIONAL BORE WITH POLY-ETHYLENE PIPE.
 5. THE BORE DEVELOPED FOR THE LEAD IN END OF THE PIPE SHALL BE KEPT AT A MINIMUM DIAMETER FOR THE PIPE INSTALLATION. THE LEAD IN END SHALL BE PULLED THROUGH WITHOUT THE M.J. FLANGE ATTACHED FOR LARGER THAN 6" PIPE INSTALLATIONS. THE M.J. FLANGE FOR SAID LEAD IN END SHALL BE INSTALLED AFTER THE PIPE INSTALLATION WITH THE USE OF A SPLIT M.J. FLANGE PER THE DETAIL ON THIS DRAWING.

TYPICAL ROADWAY DIRECTIONAL BORE FOR POLYETHYLENE (PE) PIPE N.T.S.



SYMBOL	DESCRIPTION	DATE	BY

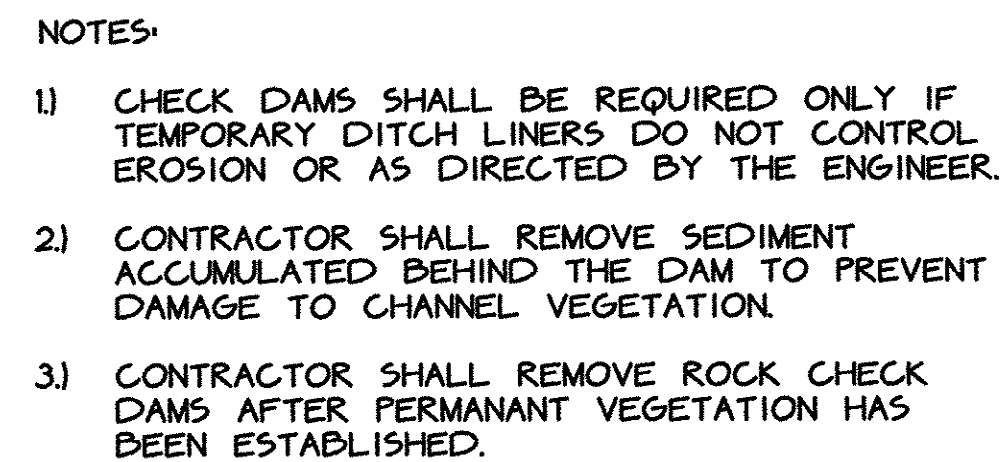


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CONSULTING ENGINEERS
MYRTLE BEACH, SOUTH CAROLINA 29577

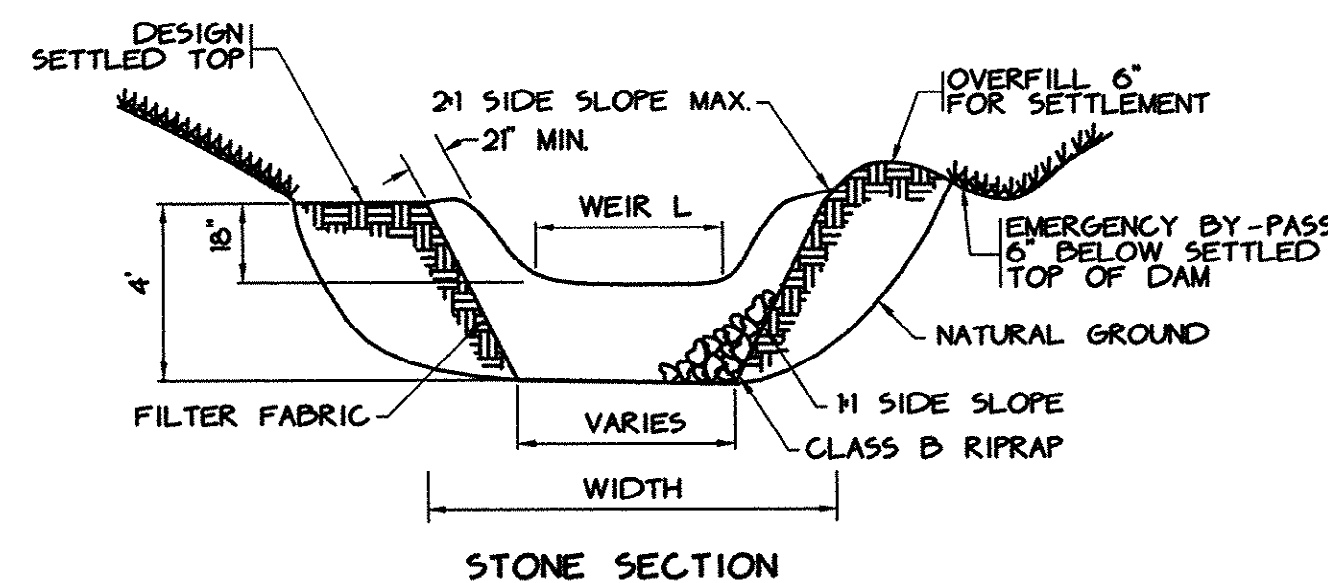
WATER DETAILS

**EAST TRANSMISSION
WATER MAIN**
GRAND STRAND WATER
AND SEWER AUTHORITY

DATE:	DEC, 1999
DESIGNED:	WDL
DRAWN:	KLM
CHECKED:	JWM
SCALE:	AS SHOWN
SHEET NO.	



SCALE: N.T.S.



N.T.S.



1. SILT FENCES SHALL BE INSTALLED AS SHOWN ON THE PLANS OR WHERE DIRECTED BY THE ENGINEER TO CONTROL EROSION.
2. REMOVE SEDIMENT PERIODICALLY. REPAIR ANY UNDERMINING IMMEDIATELY.



1. UNLESS OTHERWISE INDICATED, ALL VEGETATION AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRICTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE EROSION + SEDIMENT CONTROL PLANNING + DESIGN MANUAL + ACCORDING TO THE SPECIFICATIONS.
2. ALL HARD SURFACE PUBLIC ROADS SHALL BE CLEAN AT THE END OF EACH WORK DAY. PROVIDE TEMPORARY CONSTRUCTION ENTRANCES AT THE LOCATIONS SHOWN ON THE PLANS OR AS OTHERWISE NECESSARY.
3. THE LOCATION OF ALL EROSION AND SEDIMENT CONTROL MEASURES ARE APPROXIMATE. THESE DEVICES SHALL BE LOCATED TO ACHIEVE MAXIMUM BENEFIT. IF DURING CONSTRUCTION THESE DEVICES ARE NOT SUFFICIENT TO ADEQUATELY CONTROL EROSION AND SEDIMENTATION. ADDITIONAL EROSION CONTROL DEVICES SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER.
4. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AND DISPOSED OF WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION.
5. CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO PREVENT SEDIMENT (GENERATED BY CONSTRUCTION OR EROSION) FROM ENTERING STREAMS. CONSTRUCTION VEHICLES WILL NOT BE ALLOWED IN FLOWING STREAM CHANNELS OR TO DAMAGE THEIR BANKS. TEMPORARY STREAM CROSSINGS SHALL BE INSTALLED IN ALL FLOWING STREAMS WHICH WILL HAVE CONSTRUCTION TRAFFIC CROSSING THEM.
6. STOCKPILING OF EXCESS MATERIALS IN WETLAND AREAS IS NOT ALLOWED.
7. IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED AFTER EACH RAINFALL OR WEEKLY, WHICHEVER IS MORE FREQUENT (AT LEAST DAILY DURING PERIODS OF PROLONGED RAINFALL). CONTRACTOR SHALL CLEAN AND REPAIR ACCORDINGLY.
8. ALL WORK PERFORMED SHALL BE IN COMPLIANCE WITH GSWA STORM WATER POLLUTION PREVENTION PLAN.

DATE: DEC., 1999
DESIGNED: WDL
DRAWN: KLM
CHECKED: JWM
SCALE: 1" = 50'

SHEET NO.

28

28

OF: _____