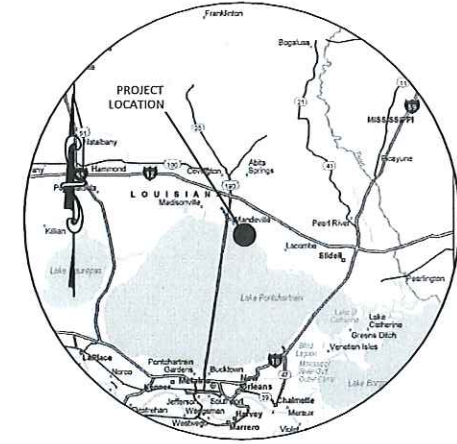


# CITY OF MANDEVILLE, LOUISIANA

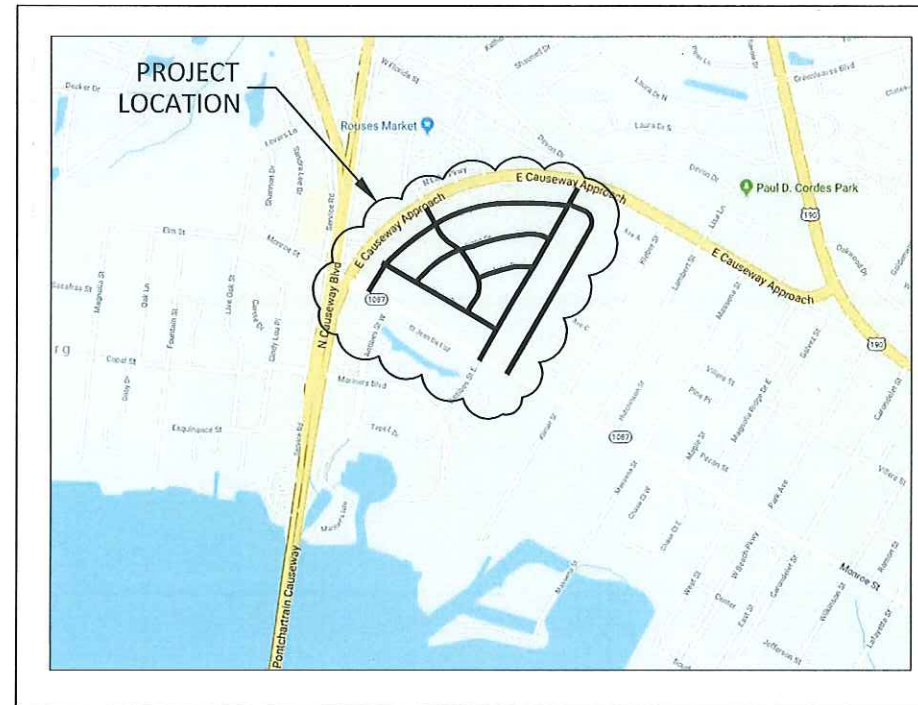
## NEW GOLDEN SHORES

### WATER MAIN REPLACEMENT

KYLE ASSOCIATES PROJECT NO. 18001  
CITY OF MANDEVILLE PROJECT NO. 1701A3



VICINITY MAP  
SCALE: 1 INCH = 15 MILES



SITE MAP  
SCALE: 1 INCH = 1,000 FEET

DECEMBER 2018



**LIST OF DRAWINGS**

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C0.2	NOTES AND LEGEND
C0.3	WATER DETAILS
C0.4	CIVIL DETAILS
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C1.3	PLAN AND PROFILE (BARBARA PLACE)
C1.4	PLAN AND PROFILE (BARBARA PLACE)
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C2.2	PLAN AND PROFILE (MARILYN DRIVE)
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C5.1	PLAN AND PROFILE (CHERON DRIVE)
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C6.1	PLAN AND PROFILE (CAMBRONNE STREET)
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C6.4	PLAN AND PROFILE (CAMBRONNE STREET)
C7.1	PLAN AND PROFILE (JANE DRIVE)
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C8.1	PLAN AND PROFILE (JOYCE DRIVE)
C8.2	PLAN AND PROFILE (JOYCE DRIVE)
C8.3	PLAN AND PROFILE (JOYCE DRIVE)

**CITY OF MANDEVILLE MAYOR:**

DONALD J. VILLERE

**COUNCIL MEMBERS:**

- COUNCILMAN DISTRICT I - DAVID ELLIS
- COUNCILMAN DISTRICT II - MICHAEL PULASKI
- COUNCILMAN DISTRICT III - JOHN KELLER
- COUNCIL AT LARGE - CLAY MADDEN
- COUNCIL AT LARGE - LAURA SICA
- COUNCIL CLERK - KRISTINE SCHERER

**RECOMMENDED FOR APPROVAL BY:**

KEVIN M. DRANE, P.E.  
KYLE ASSOCIATES, LLC



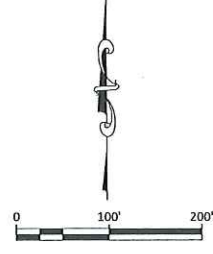
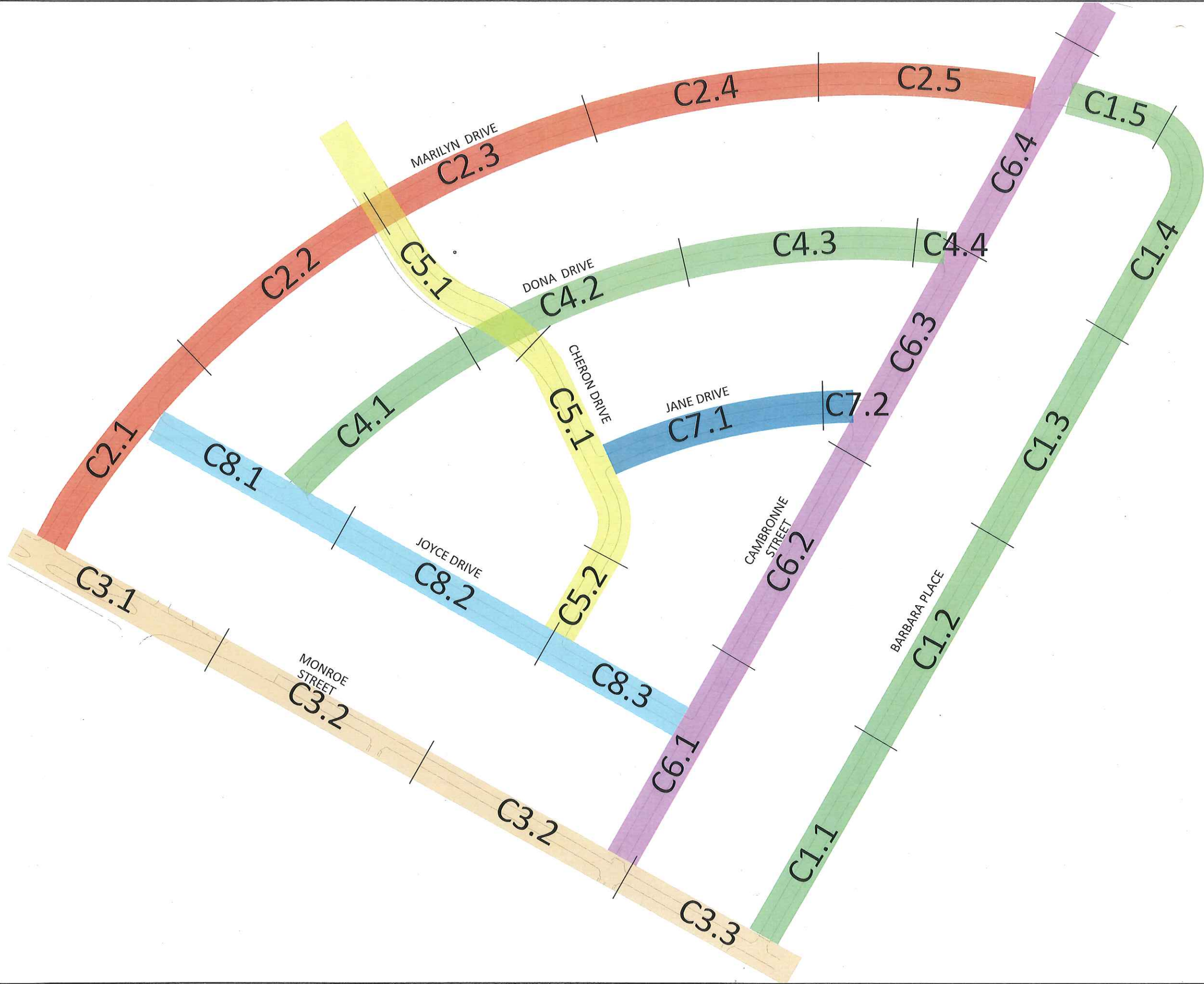
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**APPROVED BY:**

*David DeGeneres*

CITY OF MANDEVILLE  
DIRECTOR, PUBLIC WORKS  
DAVID DEGENERES

12/4/2018  
DATE



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JOB NO. 18001	

NEW GOLDEN SHORES  
WATERMAIN REPLACEMENT  
MANDERVILLE, LOUISIANA  
CITY OF MANDERVILLE  
PLAN AND PROFILE MAP

NO.	DATE	REVISIONS	APP'D



SHEET NO.  
**C0.1**



### GENERAL NOTES

1. THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL CAREFULLY VERIFY SAME AND TAKE THE NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING UTILITIES.
2. DAMAGES TO EXISTING STREETS, DRAINAGE, OTHER UTILITY STRUCTURES, AND RESIDENT PROPERTIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR TO ORIGINAL AND/OR BETTER CONDITIONS TO THE SATISFACTION OF THE OWNERS.
3. CONTRACTOR SHALL NOT DAMAGE TREES TO REMAIN. IF DAMAGED, CONTRACTOR SHALL REPLACE AT HIS OWN COST. THE CONTRACTOR SHALL PROVIDE A LOUISIANA LICENSED ARBORIST TO PERFORM NECESSARY TREE TRIMMING, ROOT PRUNING, OR RECOMMENDATION OF REMOVAL OF ANY TREE GREATER THAN 12" CALIPER PRIOR TO BEGINNING EXCAVATION. CONTRACTOR SHALL USE A CHAIN SAW TO CUT ROOTS OF TREES EXPOSED DURING EXCAVATION AND COORDINATE WITH OWNER. CONTRACTOR SHALL NOT BREAK ROOTS BY PULLING THEM WITH DIGGING MACHINES. ROOTS AND BRANCH PROTECTANT SHALL BE SPRAYED OR PAINTED ON BRANCHES OR ROOTS WHICH HAVE BEEN CUT.
4. ALL STREET SIGNS, FENCES, LAWNS, MAILBOXES, ETC. REMOVED DURING CONSTRUCTION SHALL BE RETURNED TO THEIR ORIGINAL LOCATION AND IN ORIGINAL CONDITIONS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. WHERE HOMEOWNER MAINTAINS A LAWN, IT SHALL BE REPLACED WITH SOD.
5. IF NECESSARY FOR INSTALLATION OF THE PIPE, LANDSCAPING WITHIN THE R.O.W. MAY BE REMOVED AND REPLACED UNLESS NOTED TO REMAIN OR TO BE RE-INSTALLED.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN SERVICES, SUPPLYING MATERIALS, AND LABOR NECESSARY TO PROVIDE SHEETING, SHORING, AND BRACING OR SUPPORTS AS REQUIRED TO PROVIDE SAFE WORKING CONDITIONS FOR CONTRACTOR'S PERSONNEL AND TO PROVIDE FOR PROTECTION OF UTILITIES, BUILDINGS, LEVEES, AND STRUCTURES. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH THESE REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE SYSTEM TO WITHSTAND LATERAL PRESSURE. SHEET DESIGN AND INSTALLATION SHALL BE INCLUDED IN THE COST OF THE PIPE OR STRUCTURAL INSTALLATION.
7. CONTRACTOR SHALL NOT OPEN THE TRENCH ANY FURTHER AHEAD OF PIPE LAYING OPERATIONS THAN IS NECESSARY. BACKFILL AND REMOVE EXCESS MATERIAL IMMEDIATELY BEHIND LAYING OPERATIONS. COMPLETE EXCAVATION AND BACKFILL FOR ANY PORTION OF THE TRENCH IN THE SAME DAY UNLESS APPROVED OTHERWISE BY THE OWNER.
8. CONTRACTOR SHALL RE-GRADE ALL AREAS AFFECTED BY CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE. WORK SHALL BE IN A WORKMAN LIKE MANNER AND IN ACCORDANCE WITH PROJECT REQUIREMENTS. IF CONTRACTOR DETERMINES THAT ANY AREAS AFFECTED BY CONSTRUCTION CANNOT BE RE-GRADED TO DRAIN, CONTRACTOR SHALL DOCUMENT (I.E., TAKE ELEVATIONS, PICTURES, ETC.) EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
9. CONTRACTOR SHALL GIVE THOSE AFFECTED BY CONSTRUCTION 48 HOURS NOTICE PRIOR TO DISRUPTION OF DRIVEWAYS. DRIVEWAYS AND STREETS SHALL NOT REMAIN CLOSED OVERNIGHT. DOOR HANGERS SHALL BE PLACED.
10. CONTRACTOR SHALL NOTIFY THOSE AFFECTED BY CONSTRUCTION 48 HOURS PRIOR TO DISRUPTION OF WATER, SEWER OR OTHER UTILITY SERVICE. UTILITY SERVICES SHALL BE PROMPTLY REPAIRED AND NOT REMAIN OUT OF SERVICE OVERNIGHT. DOOR HANGERS SHALL BE PLACED.
11. CONTRACTOR SHALL AT ALL TIMES CONDUCT HIS OPERATIONS AS TO ENSURE THE LEAST INCONVENIENCE TO THE GENERAL PUBLIC AND ADJACENT PROPERTY OWNERS.
  - A. CONTRACTOR SHALL PROVIDE ACCESS TO COMMERCIAL/INDUSTRIAL PROPERTIES AT ALL TIMES.
  - B. CONTRACTOR SHALL PROVIDE ACCESS TO RESIDENTIAL PROPERTIES AT ALL TIMES. VEHICULAR ACCESS SHALL BE PROVIDED AS DIRECTED BY ENGINEER. UPON APPROVAL BY ENGINEER, VEHICULAR ACCESS MAY BE LIMITED DURING PAVING OF DRIVEWAYS. CONTRACTOR SHALL CONTACT AND ADVISE ALL AFFECTED PROPERTY OWNERS.
11. CONTRACTOR SHALL COORDINATE AND PAY FOR THE DE-ENERGIZING AND RE-ENERGIZING OF POWER LINES FOR CONSTRUCTION PURPOSES AS REQUIRED BY LOCAL, STATE, AND FEDERAL AGENCIES.
12. IF IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE DIRECTLY WITH THE APPROPRIATE UTILITY COMPANIES TO HAVE THE UTILITIES RELOCATED.
13. CONTRACTOR SHALL COMPLY WITH APPLICABLE STORM WATER DISCHARGE REGULATIONS INCLUDING UTILIZATION OF STORM WATER BEST MANAGEMENT PRACTICES.
14. A TRAFFIC CONTROL PLAN SHALL BE SUBMITTED COORDINATING WITH, OR A PART OF, THE HDD PLAN SUBMITTAL. ANY LANE CLOSURE SHALL BE APPROVED IN ADVANCE BY THE OWNER. PLAN DETAILS SHALL BE IN ACCORDANCE WITH DOTD SPECIFICATIONS, INCLUDING THOSE FOR TRAFFIC CONTROL DEVICES.
15. WHERE CONCRETE PAVEMENT IS REMOVED AND REPLACED, CONTRACTOR SHALL REPLICATE ANY SPECIALTY CONCRETE FINISHES ON THE EXISTING PAVEMENT AT NO DIRECT PAY.
16. WHERE SOD IS REMOVED AND REPLACED, CONTRACTOR SHALL REPLACE IN-KIND (I.E. - ST. AUGUSTINE WITH ST. AUGUSTINE).
17. SERVICE LINE SIZES ARE UNKNOWN AND SHALL BE DETERMINED BY THE CONTRACTOR BY EXPLORATORY EXCAVATION AT NO DIRECT PAY.
18. ALL TIE-INS TO EXISTING PVC WATER MAINS SHALL BE CUT IN WITH STANDARD FITTINGS AND VALVES. TIE-INS TO HDPE WATER MAINS SHALL BE WITH FUSIBLE TEES. HOT TAPS ARE NOT ALLOWED UNLESS APPROVED BY THE ENGINEER AND OWNER.

### SURVEY LEGEND

	BUILDING
	EXISTING RIGHT OF WAY
	CATCH BASIN
	CULVERT
	DROP INLET, DRAIN LINE
	DROP INLET, DRAIN LINE
	COMMUNICATIONS MANHOLE, COMM. LINE
	DRAIN MANHOLE, DRAIN LINE
	ELECTRICAL MANHOLE, ELEC. LINE
	GAS MANHOLE, GAS LINE
	SEWER MANHOLE, SEWER LINE
	TELEPHONE MANHOLE, TELE LINE
	WATER MANHOLE, WATER LINE
	UTILITY POLE / OVERHEAD LINES
	ELECTRIC, TELEPHONE, CABLE TV
	FENCE
	UTILITY BOX
	UTILITY CLEANOUT
	UTILITY METER
	UTILITY PEDESTAL
	UTILITY VALVE
	UTILITY VALVE VAULT
	FIRE HYDRANT
	LIGHT STANDARD
	TRAFFIC SIGNAL POLE
	TRAFFIC LIGHT POWER VAULT
	CANOPY SUPPORT
	SIGN
	TREE
	RESIDENTIAL MAILBOX
	PP DEADMAN

### ABBREVIATIONS

DI	DUCTILE IRON PIPE
DIA	DIAMETER
DIPS	DUCTILE IRON PIPE SIZE
DR	DIMENSION RATIO
EL	ELEVATION
ELEC	ELECTRICAL
FLG	FLANGED
HDD	HORIZONTAL DIRECTIONAL DRILL
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HORIZ	HORIZONTAL
ID	INTERNAL DIAMETER
IE	INVERT ELEVATION
INV	INVERT
EXIST	EXISTING
L	LENGTH
MAX	MAXIMUM
MIN	MINIMUM
PE	PLAIN END
PVC	POLYVINYLCHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
REQ'D	REQUIRED
R/W	RIGHT-OF-WAY
SCH	SCHEDULE
SFM	SEWER FORCE MAIN
STA	STATION
TC	TOP OF CASTING
TYP	TYPICAL

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DESIGNED BY: KMD	DRAWN BY: BAF	CHECKED BY: KMD	JOB NO. 18001
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**NEW GOLDEN SHORES  
WATERMAIN REPLACEMENT**  
MANDERVILLE, LOUISIANA  
CITY OF MANDERVILLE

**NOTES & LEGEND**

NO.	DATE	REVISIONS	APP'D

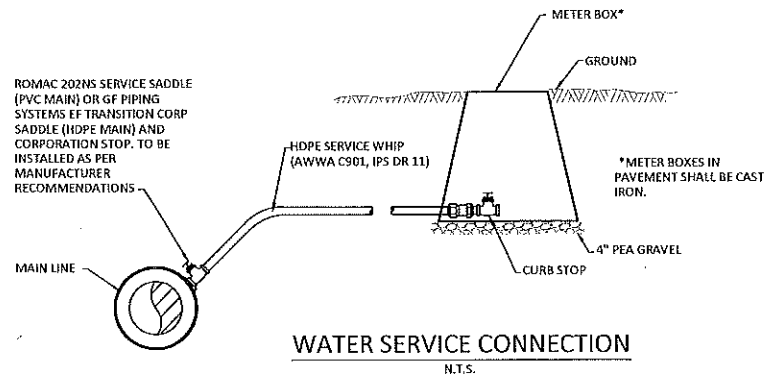


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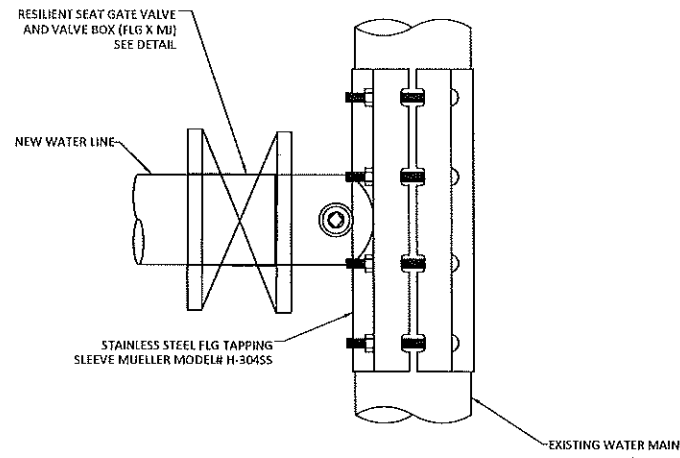
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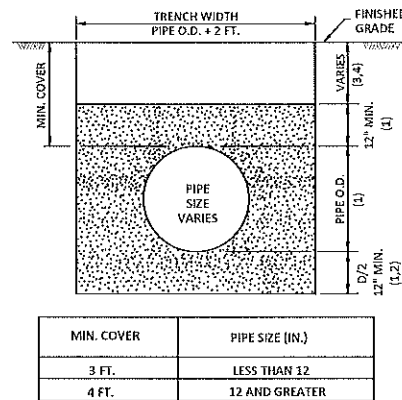


**WATER SERVICE CONNECTION**  
N.T.S.



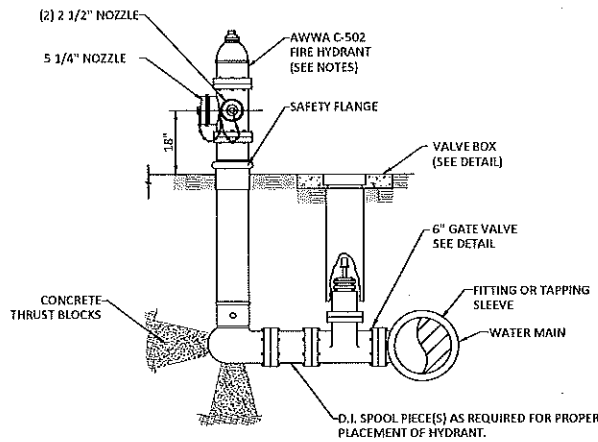
**HOT TAP DETAIL**  
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NOTE:  
HOT TAPS ARE ALLOWED ONLY WHEN APPROVED BY THE ENGINEER AND OWNER.



**STANDARD UTILITY TRENCH DETAIL**  
N.T.S.

- NOTES:
1. COMPACTED GRANULAR MATERIAL MIN. DENSITY 95% STANDARD PROCTOR (ASTM D698) 6" MAX. LAYERS.
  2. PROVIDE BELL HOLES AT EACH JOINT.
  3. SELECT EXCAVATED MATERIAL FREE OF STUMPS, DEBRIS AND VOIDS FOR NON-PAVED AREA.
  4. COMPACTED GRANULAR MATERIAL WHEN ANY PART OF TRENCH IS WITHIN 3' OF STREET PAVEMENT. MINIMUM DENSITY 95% STANDARD PROCTOR (ASTM D698), 6" MAX. LAYERS.
  5. WHERE GROUND WATER OR UNSTABLE TRENCH BOTTOM EXISTS, TRENCH BOTTOM SHALL BE STABILIZED (ASTM D2321) TO PROVIDE A WORKING PLATFORM.
  6. TRENCH DETAIL SHOWN SHALL BE MINIMUM REQUIREMENTS TO SAFEGUARD THE INTEGRITY OF THE UTILITY LINE INSTALLATION AT REQUIRED DEPTHS. THE CONTRACTOR SHALL PROVIDE SUFFICIENT SHEETING AND BRACING TO PROVIDE SAFE WORKING CONDITION FOR HIS WORKERS.



**FIRE HYDRANT DETAIL (PVC/DUCTILE MAIN)**  
N.T.S.

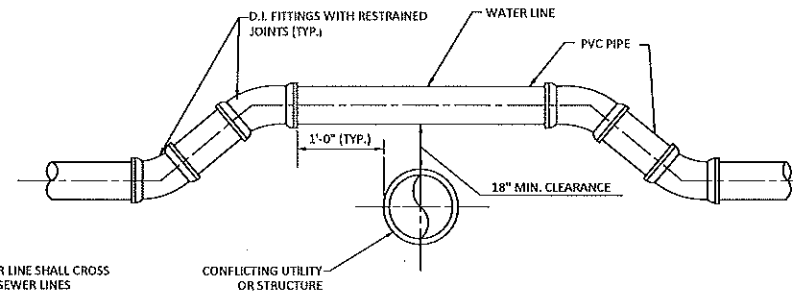
**FIRE HYDRANT NOTES:**

1. FIRE HYDRANTS SHALL BE AMERICAN DARLING MODEL # B-84-B
2. ALL JOINTS SHALL BE FLANGED OR RESTRAINED.
3. FACE 5 1/4" NOZZLE TOWARDS STREET.
4. ALL BOLTS, HARDWARE, RODS, ETC. SHALL BE STAINLESS STEEL.
5. COLOR SHALL BE SAFETY YELLOW.

**THRUST BLOCKING NOTES:**

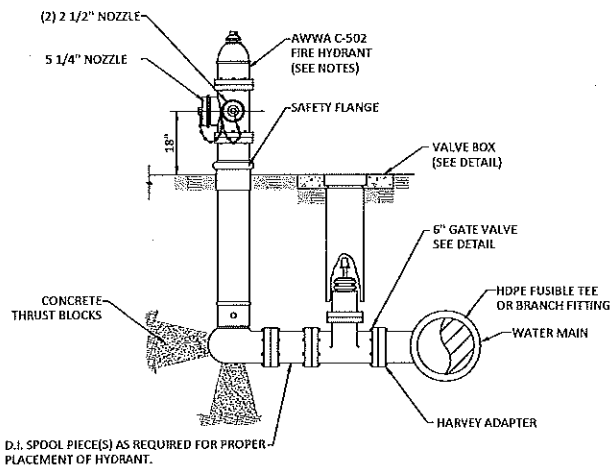
1. ALL DIMENSIONS ARE IN INCHES.
2. USE ON ALL FITTINGS. ALL FITTINGS TO BE DUCTILE IRON MJ RESTRAINED JOINT.
3. ALL CONCRETE AND PIPE SHALL BE SEPARATED BY A NON-CONDUCTIVE MATERIAL (TYPICALLY 1/8" EPDM RUBBER).
4. ALL CONCRETE THRUST BLOCKS SHALL BE 4000 PSI @ 28 DAYS. TIMBER THRUST BLOCKS SHALL NOT BE USED UNLESS PERMISSION GRANTED BY UTILITY COMPANY.
5. PIPE SHALL BE RESTRAINED JOINT ON EACH SIDE OF FITTINGS (40' MIN.).

SOIL	SIZE	90° BEND		TEE		PLUG	
		A	B	A	B	C	D
4000 psf	6"	10	10	8	8	10	15
	8"	15	12	9	12	12	20
2000 psf	6"	18	10	10	12	10	21
	8"	25	13	16	12	20	29

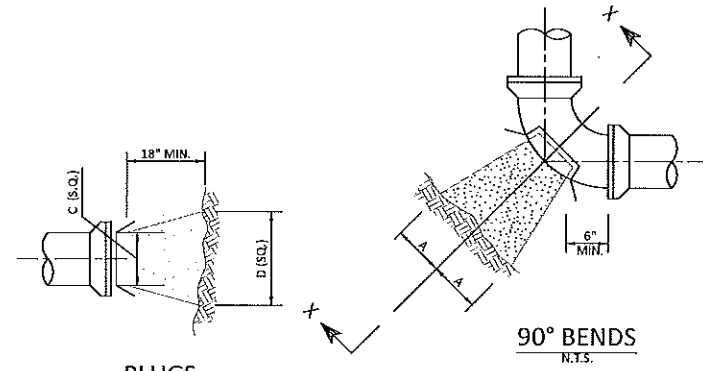


**TYPICAL VERTICAL OFFSET DETAILS FOR WATER AND SEWER CONFLICTS**  
N.T.S.

NOTE:  
WATER LINE SHALL CROSS OVER SEWER LINES

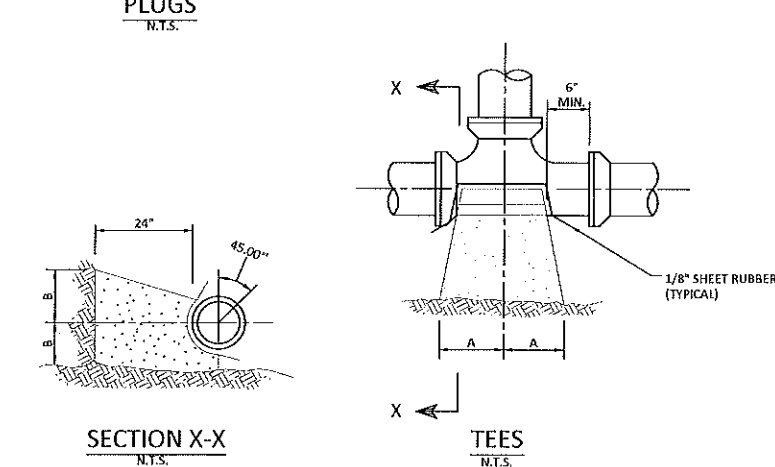


**FIRE HYDRANT DETAIL (HDPE MAIN)**  
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**PLUGS**  
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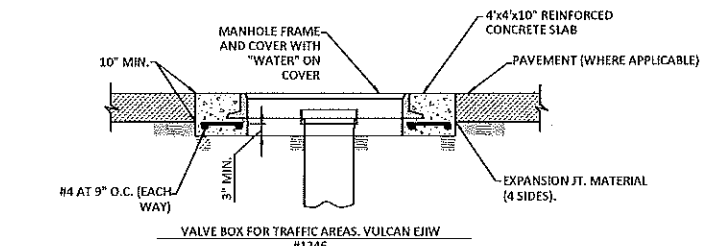
**90° BENDS**  
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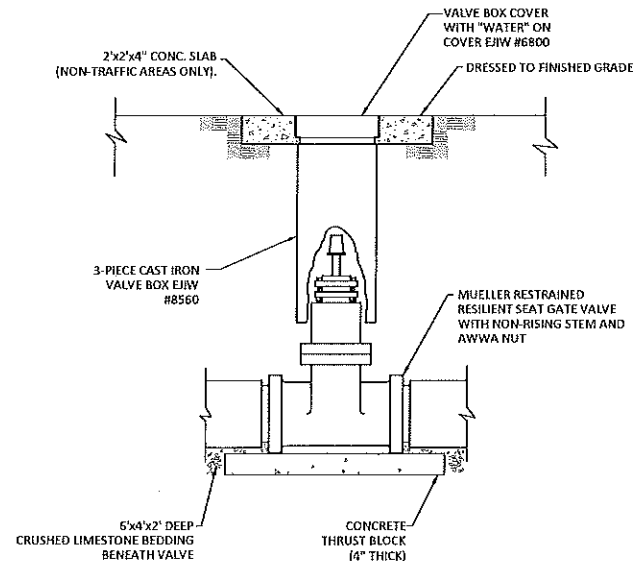
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**TEES**  
N.T.S.

**THRUST BLOCK DETAILS**  
N.T.S.



**VALVE BOX FOR TRAFFIC AREAS. VULCAN EJVW #1246**



**WATER VALVE AND VALVE BOX DETAIL**  
N.T.S.

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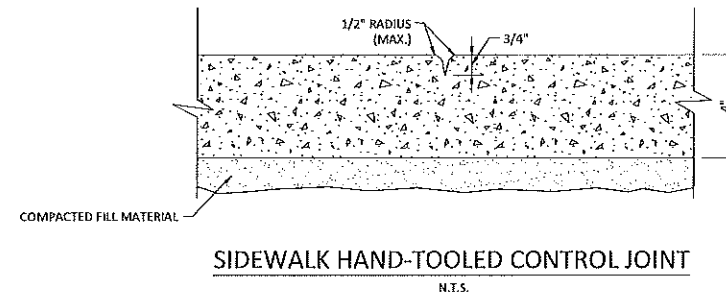
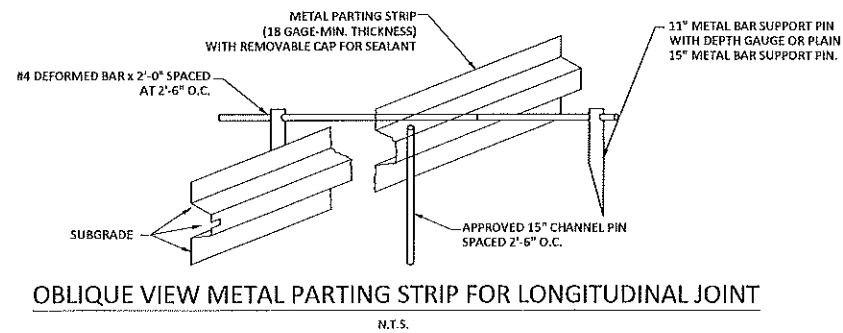
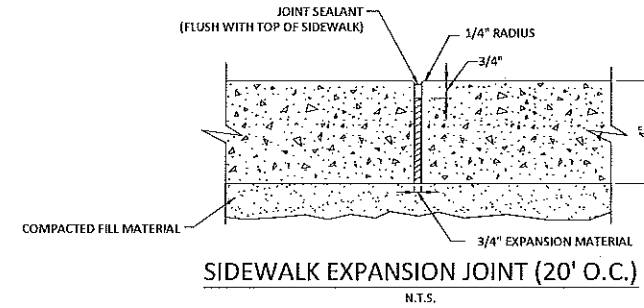
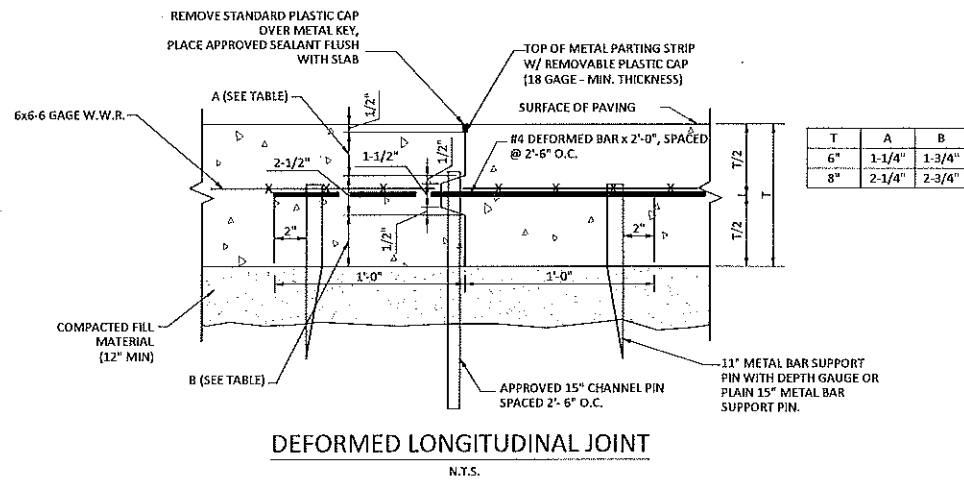
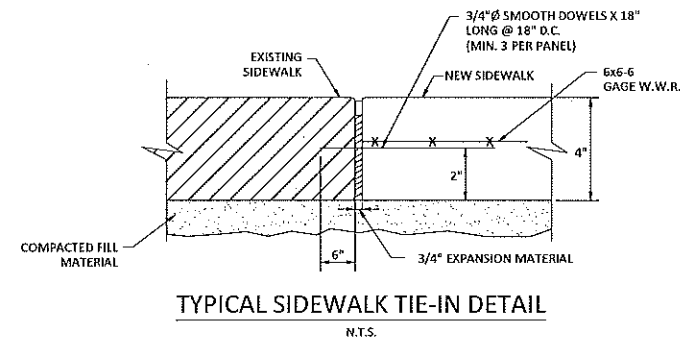
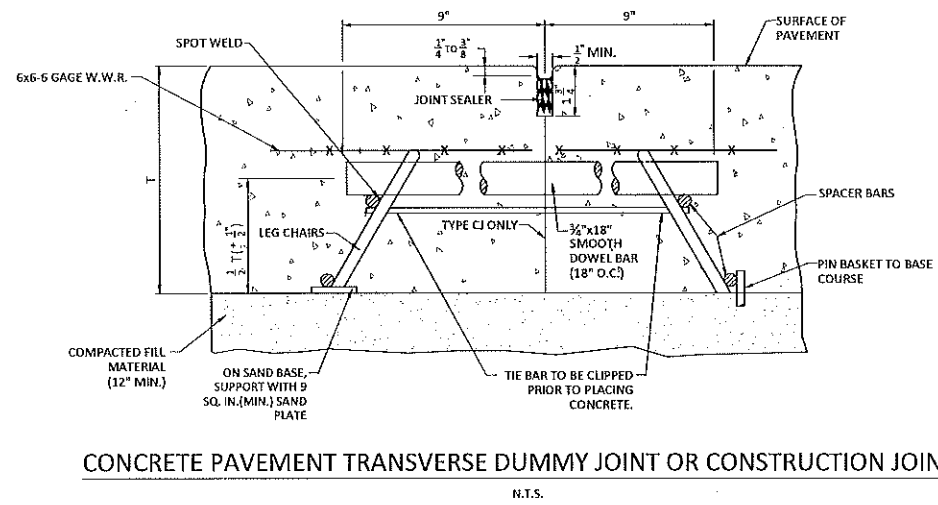
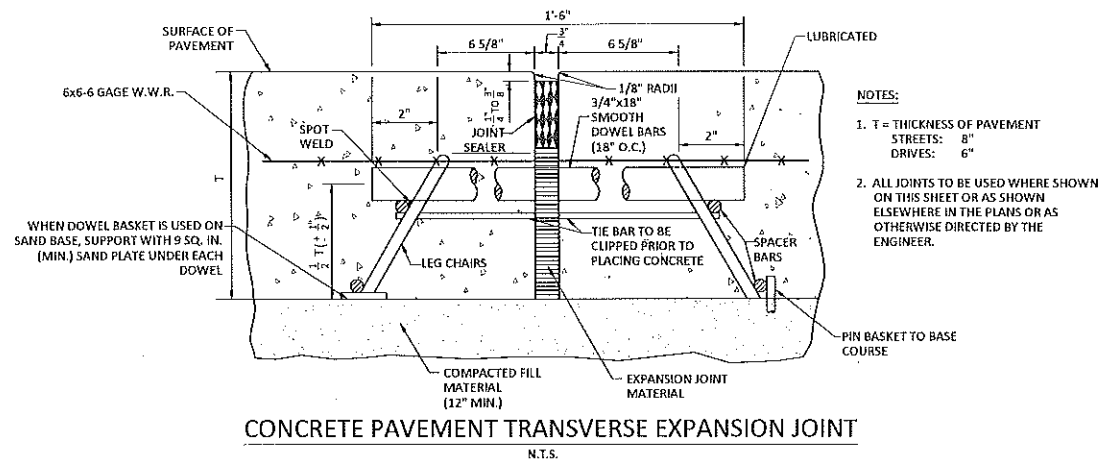
NEW GOLDEN SHORES  
WATERMAIN REPLACEMENT  
MANDERVILLE, LOUISIANA  
CITY OF MANDERVILLE  
WATER DETAILS

NO.	DATE	REVISIONS	APP'D



**Kyle Associates, LLC**  
Planning, Engineering, and Landscape Architecture  
638 Village Lane N., Mandeville, LA 70071 • 866.777.9377

SHEET NO.  
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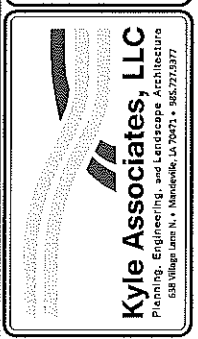


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			18001

NEW GOLDEN SHORES  
WATERMAIN REPLACEMENT  
MANDERVILLE, LOUISIANA  
CITY OF MANDERVILLE  
CIVIL DETAILS

NO.	DATE	REVISIONS	APP'D.

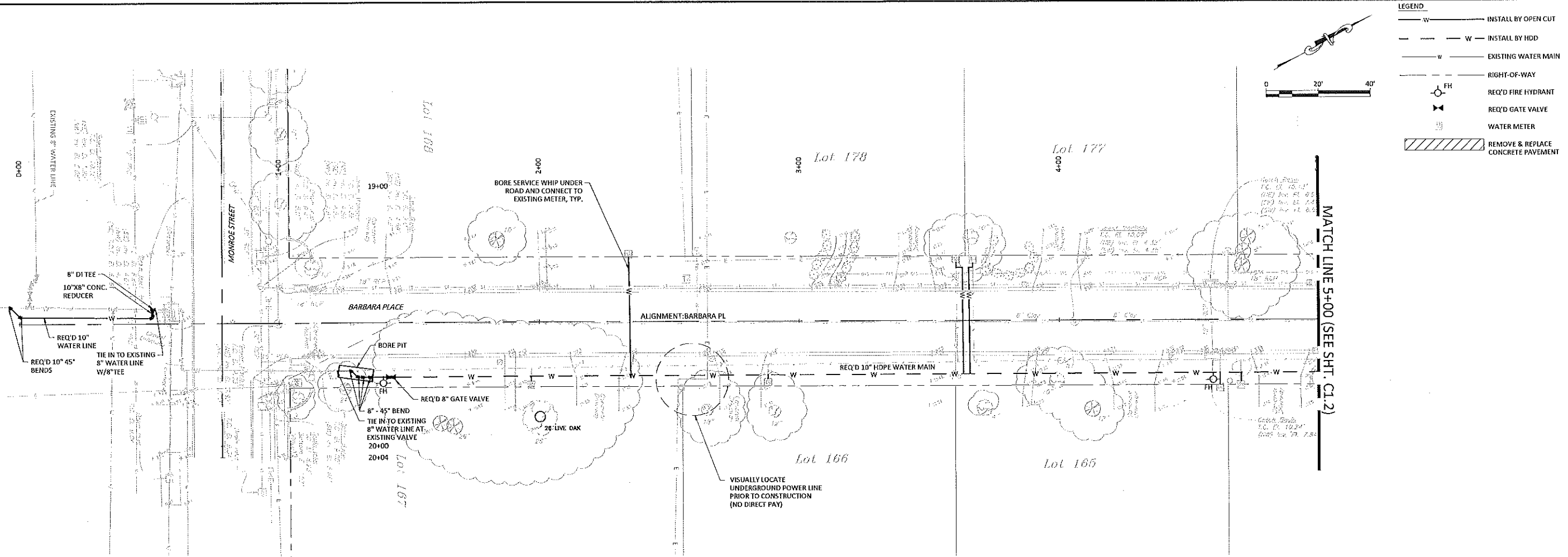


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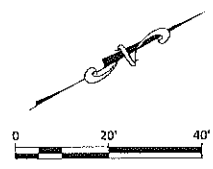
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**LEGEND**

- W ———— INSTALL BY OPEN CUT
- W ———— INSTALL BY HDD
- W ———— EXISTING WATER MAIN
- — — — RIGHT-OF-WAY
- FH ———— REQ'D FIRE HYDRANT
- X ———— REQ'D GATE VALVE
- ———— WATER METER
- ▨▨▨▨ REMOVE & REPLACE CONCRETE PAVEMENT

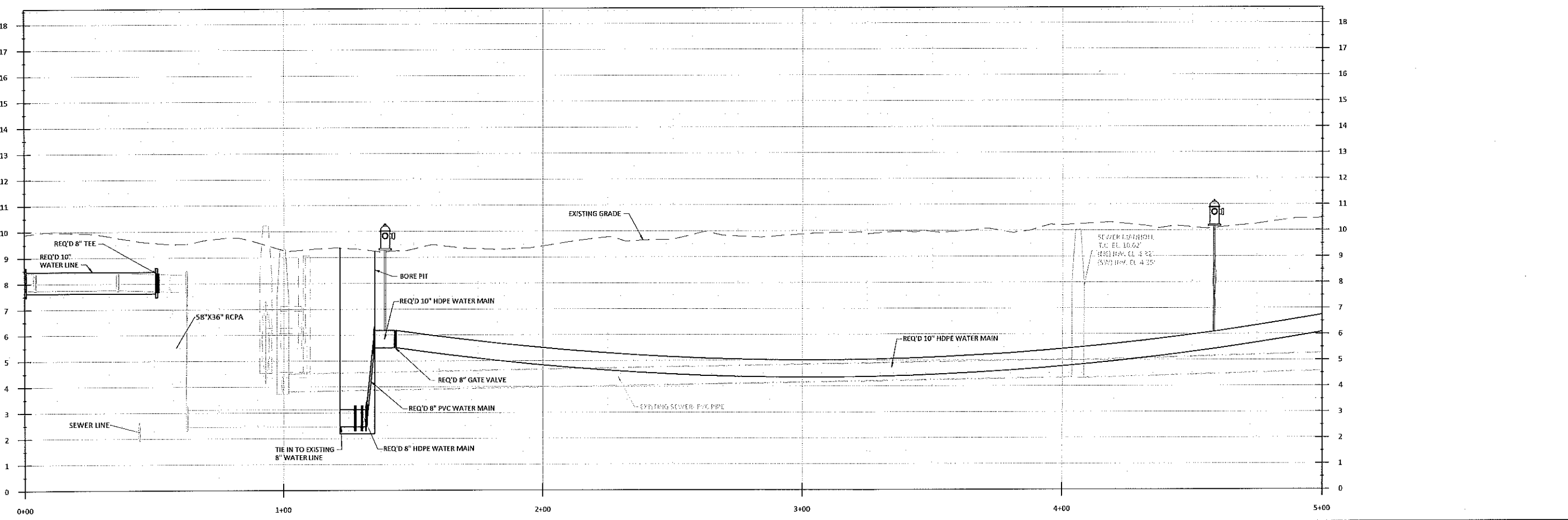


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**NEW GOLDEN SHORES  
WATERMAIN REPLACEMENT**

MANDRILLE, LOUISIANA  
CITY OF MANDRILLE  
BARBARA PLACE



REVISIONS

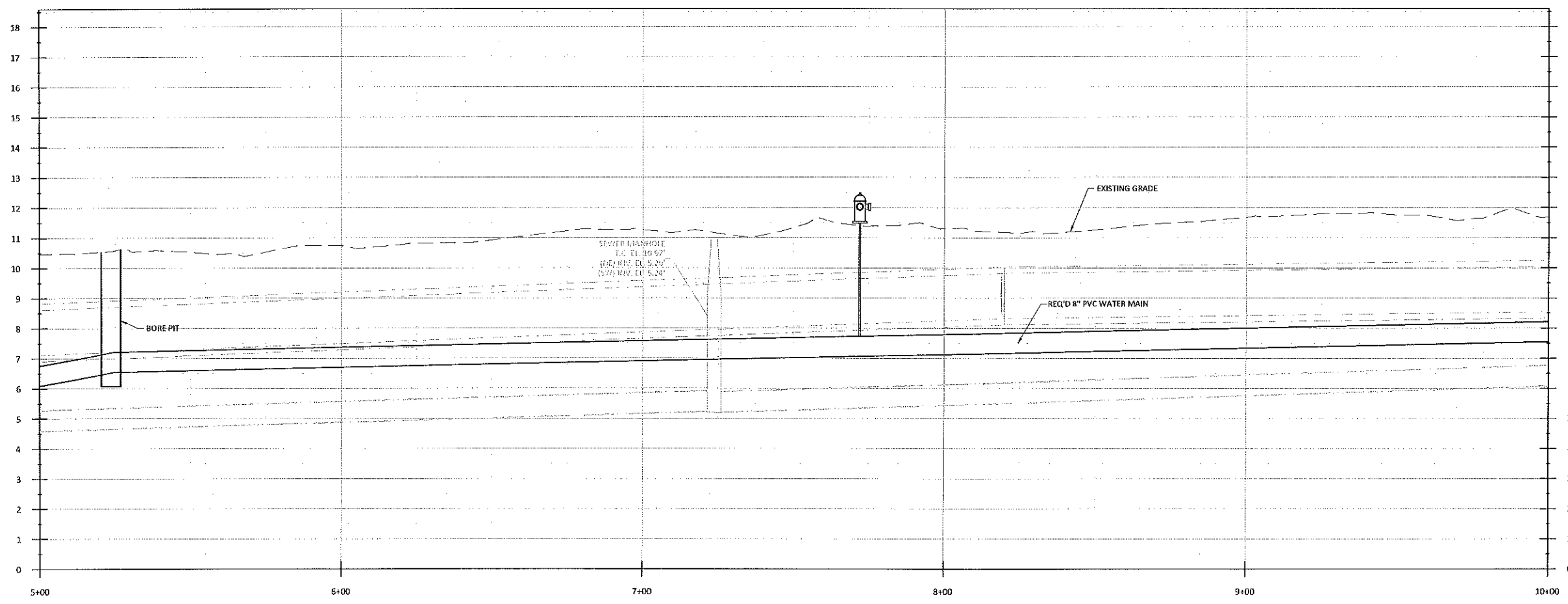
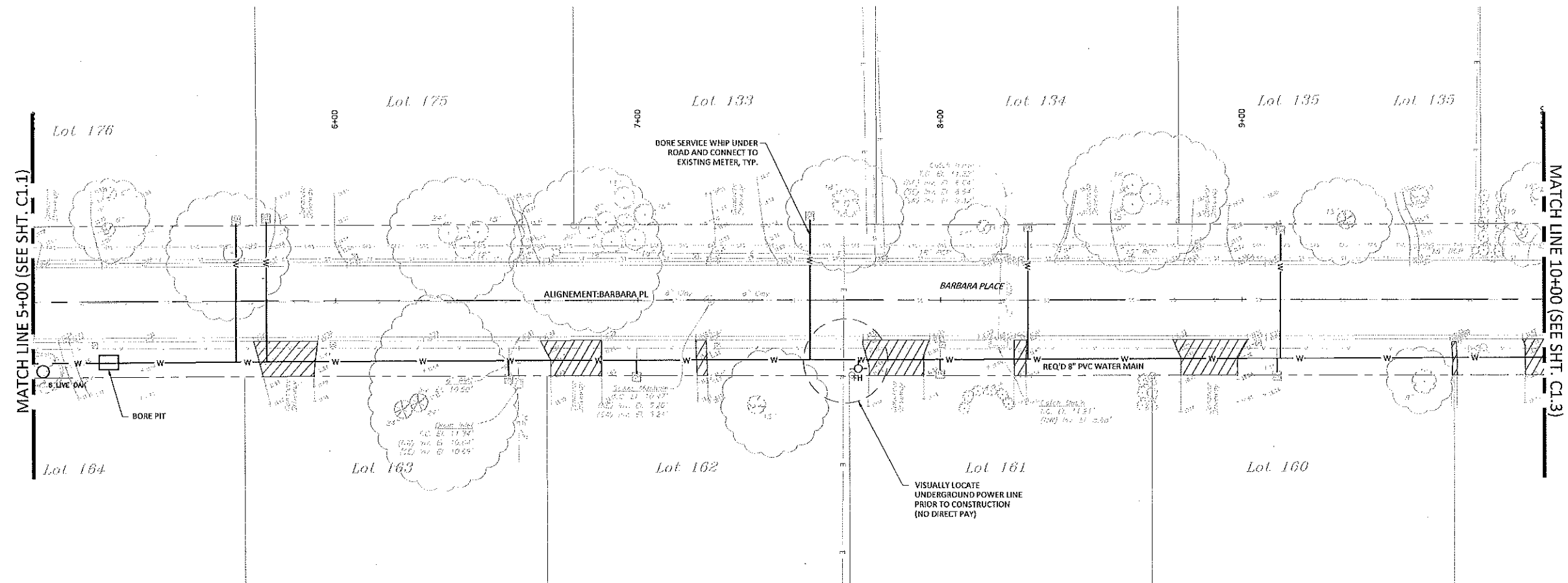
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**Kyle Associates, LLC**

Professional Engineering and Landscaping Architecture  
633 Village Lane N., Mandrille, LA 70571, P. 504.277.5177

SHEET NO.  
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**LEGEND**

- W ——— INSTALL BY OPEN CUT
- W ——— INSTALL BY HDD
- W ——— EXISTING WATER MAIN
- — — RIGHT-OF-WAY
- FH ——— REQ'D FIRE HYDRANT
- X ——— REQ'D GATE VALVE
- WATER METER
- ▨ ——— REMOVE & REPLACE CONCRETE PAVEMENT

**SCALE:** 1" = 20'

**SCALE:** 1" = 40'

**DATE:** DEC. 2018

**JOB NO.:** 18001

**CADD FILE NAME:** 18001-2018V.dwg

**DESIGNED BY:** KMD

**DRAWN BY:** BAF

**CHECKED BY:** KMD

**JOB NO.:** 18001

**DATE:** DEC. 2018

**NEW GOLDEN SHORES WATERMAIN REPLACEMENT**

**MANDERVILLE, LOUISIANA**

**CITY OF MANDERVILLE**

**BARBARA PLACE**

**REVISIONS**

NO.	DATE	APP'D



**Kyle Associates, LLC**

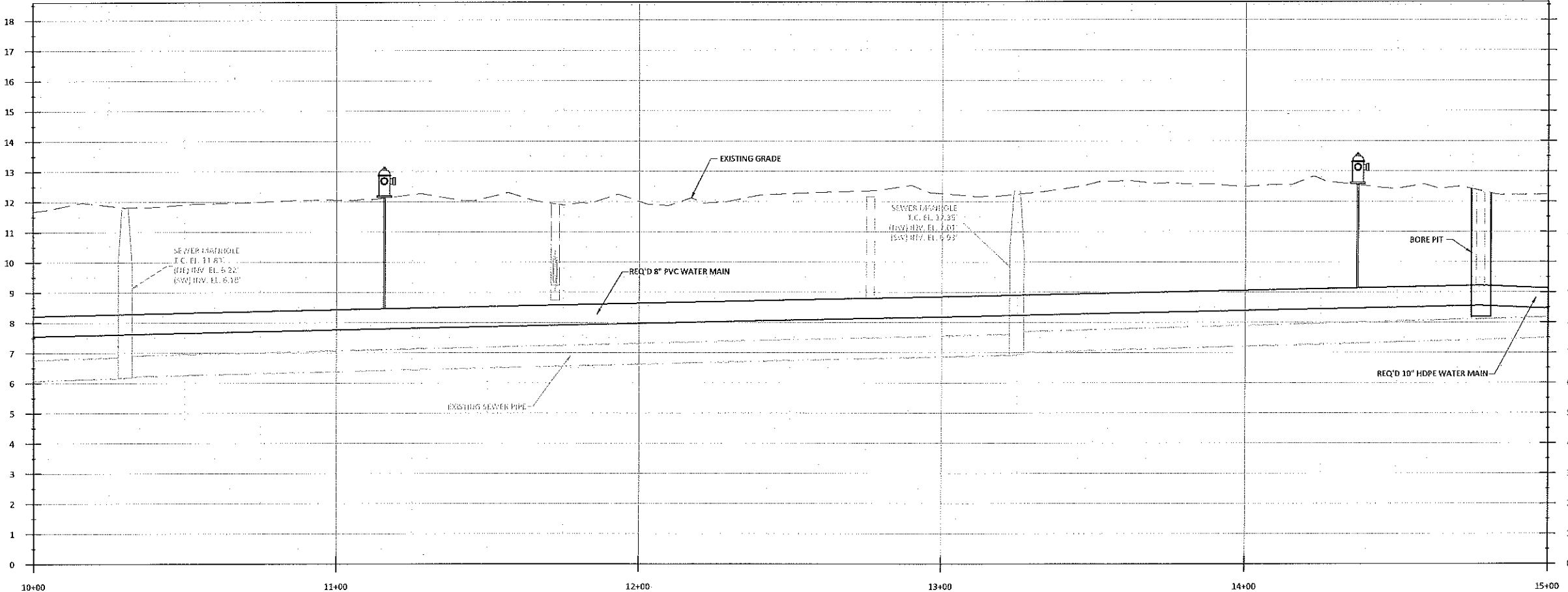
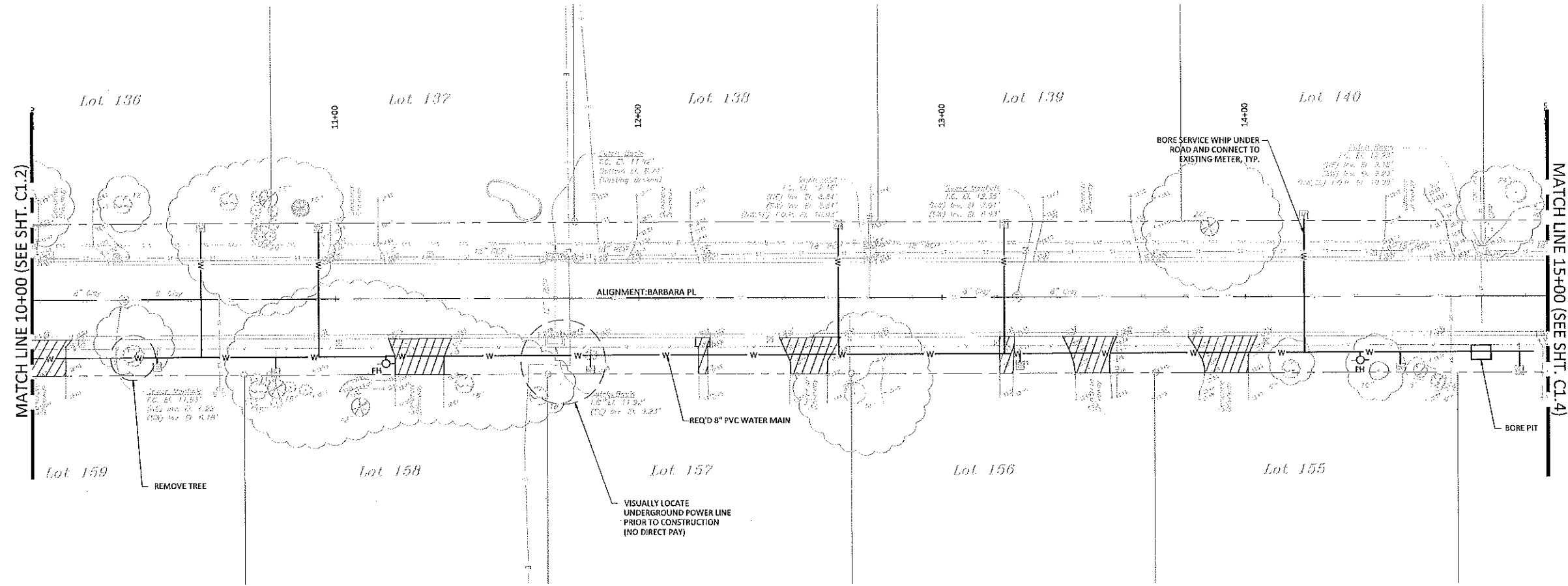
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Plot Date: Tuesday, December 04, 2018 4:14:07 PM

User: Gwen Ladner

File: N:\2018\18001 - New Golden Shores Water Main Replacement\Drawings\Civil\18001-2018.dwg



**LEGEND**

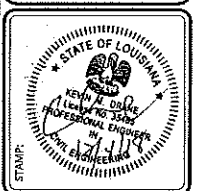
- INSTALL BY OPEN CUT
- INSTALL BY HDD
- EXISTING WATER MAIN
- RIGHT-OF-WAY
- REQ'D FIRE HYDRANT
- REQ'D GATE VALVE
- WATER METER
- REMOVE & REPLACE CONCRETE PAVEMENT

CADD FILE NAME:  
18001-2018V.dwg

DESIGNED BY: KMD	DRAWN BY: BAF	CHECKED BY: KMD	JOB NO. 18001
SCALE: (20x4) 1" = 20'	SCALE: (15x7) 1" = 40'	DATE: DEC. 2018	

**NEW GOLDEN SHORES  
WATERMAIN REPLACEMENT**  
 MANDEVILLE, LOUISIANA  
 CITY OF MANDEVILLE  
**BARBARA PLACE**

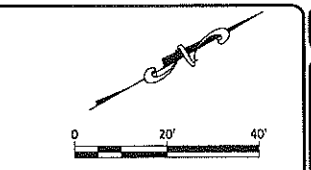
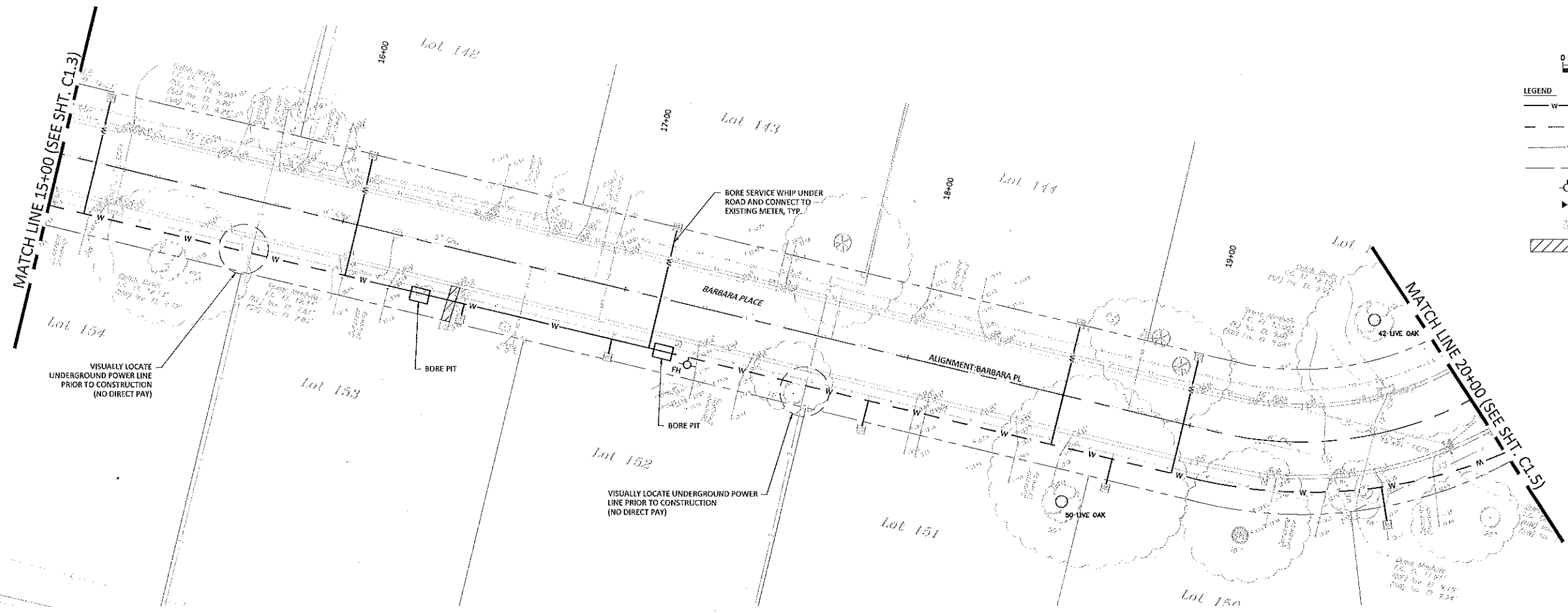
NO.	DATE	REVISIONS	APP'D



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SHEET NO.  
**C1.3**





**LEGEND**

W	INSTALL BY OPEN CUT
W	INSTALL BY HDD
W	EXISTING WATER MAIN
---	RIGHT-OF-WAY
FH	REQ'D FIRE HYDRANT
X	REQ'D GATE VALVE
⊗	WATER METER
▨	REMOVE & REPLACE CONCRETE PAVEMENT

CADD FILE NAME:  
18001-2018V.dwg

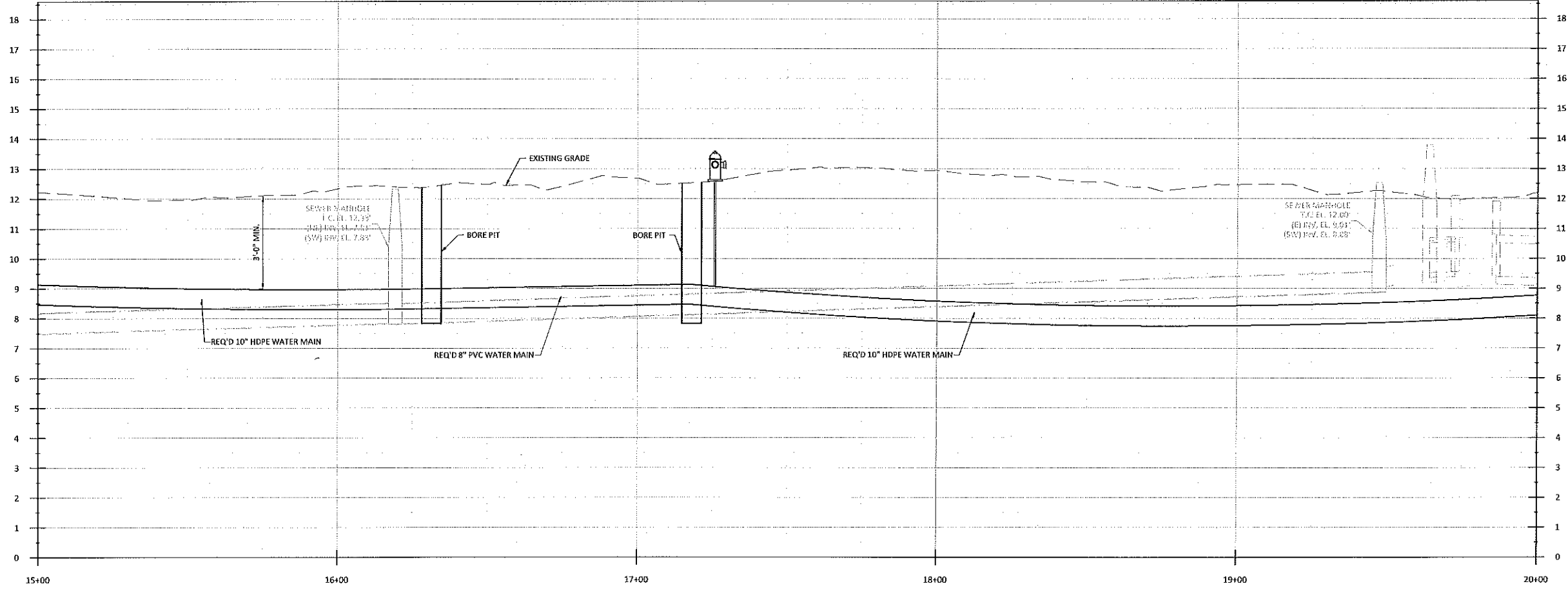
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DRAWN BY: BAF	SCALE (11x17): 1" = 40'
CHECKED BY: KMD	DATE: DEC. 2018
JOB NO.: 18001	

**NEW GOLDEN SHORES  
WATERMAIN REPLACEMENT**  
MANDERVILLE, LOUISIANA  
CITY OF MANDERVILLE  
BARBARA PLACE

NO.	DATE	REVISIONS	APP'D



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SHEET NO.  
**C1.4**