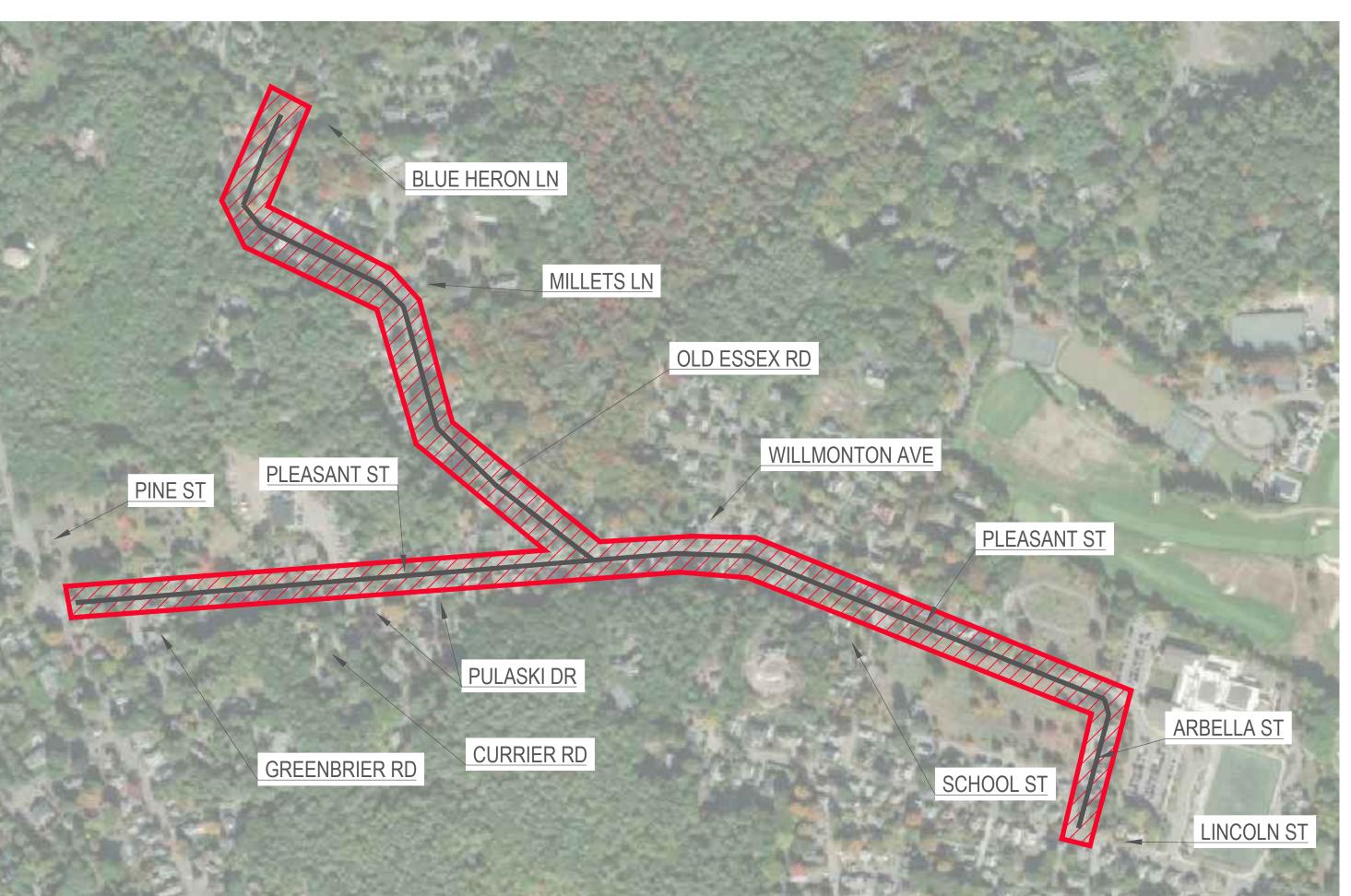
# TOWN OF MANCHESTER BY THE SEA, MA JUNE 2024

# 2024 WATER MAIN IMPROVEMENTS PROJECT PLEASANT STREET





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C-000 COVER SHEET

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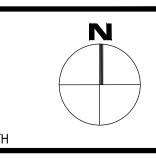
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C-103 BASE BID AND ALTERNATE 1
C-104 BASE BID
C-105 BASE BID AND ALTERNATE 2
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C-201 ALTERNATE 1
C-202 ALTERNATE 1
C-203 ALTERNATE 1
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C-300 ALTERNATE 2
C-301 ALTERNATE 2
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C-400 DETAIL II
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C-509 PLEASANT ST BYPASS

TOWN ADMINISTRATOR GREGORY FEDERSPIEL

DIRECTOR OF PUBLIC WORKS CHUCK DAM, P.E.

TOWN ENGINEER NATHAN DESROSIERS P.E.

BID SET



BOBREK

PO BOX 2185 DANVERS, MA 01923 WWW.gobobrek.COM

MANCHESTER DP 10 CENTRAL ST MANCHESTER-BY-THE-SEA, MA 01944

CLIENT INFO

2024 WATER MAIN MPROVEMENTS PROJECT STEASANT ST

REV DESCRIPTION DATE



STAMP:

COVER

SHEET NAM

C-000

SHT NO:

DR BY: JJS

CHK BY: BTP

PROJ NO: 18-014

DATE: JUNE 2024

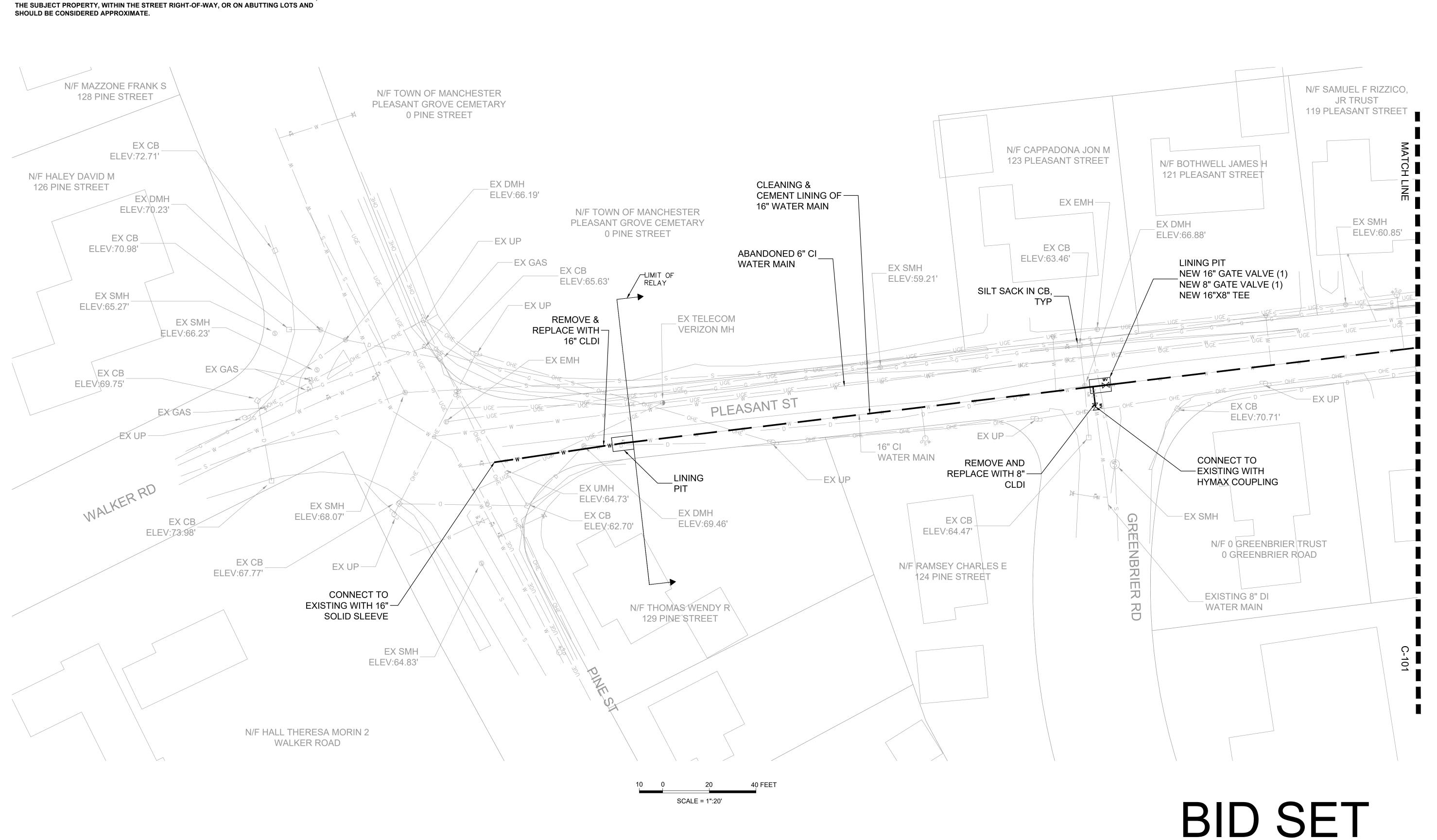
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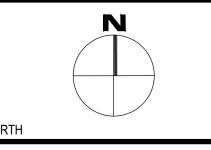
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POTABLE WATER SERVICE TO RESIDENTS IN THE WORK ZONE.

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MANCHESTER DPW 10 CENTRAL ST MANCHESTER-BY-THE-SEA, MA 01944

CLIENT INFO

2024 WATER MAIN IMPROVEMENTS
PROJECT
PLEASANT ST



DATE

REV DESCRIPTION

STAMP:

PLEASANT ST BASE BID

ET NAME:

SCALE: 1"=20'

C-100

SHT NO:

DR BY: JJS

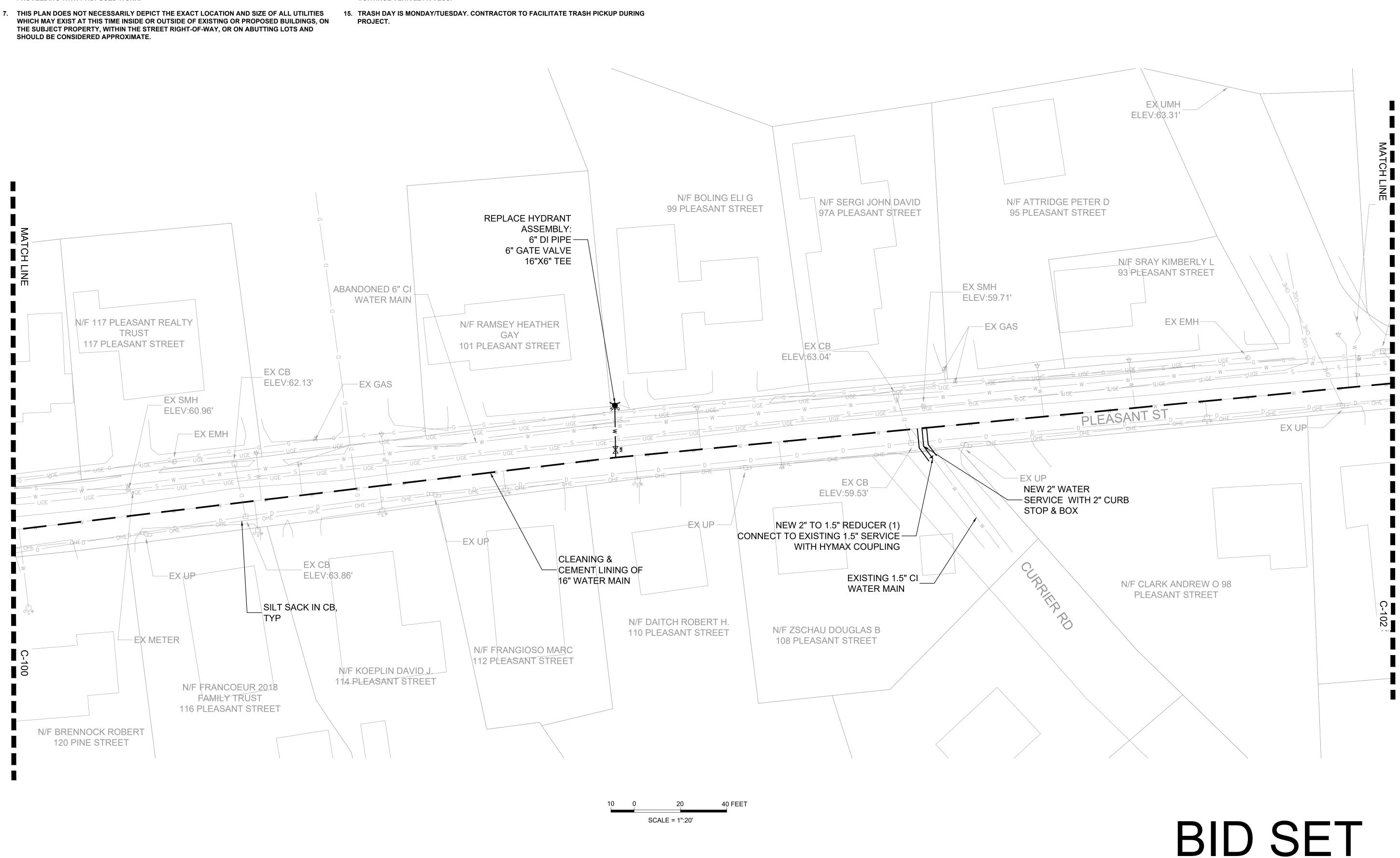
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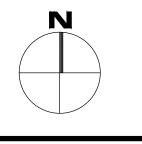
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MANCHESTER DPW 10 CENTRAL ST MANCHESTER-BY-THE-SEA, MA 01944

CLIENT INFO

MAIN

2024

PROJECT INFO

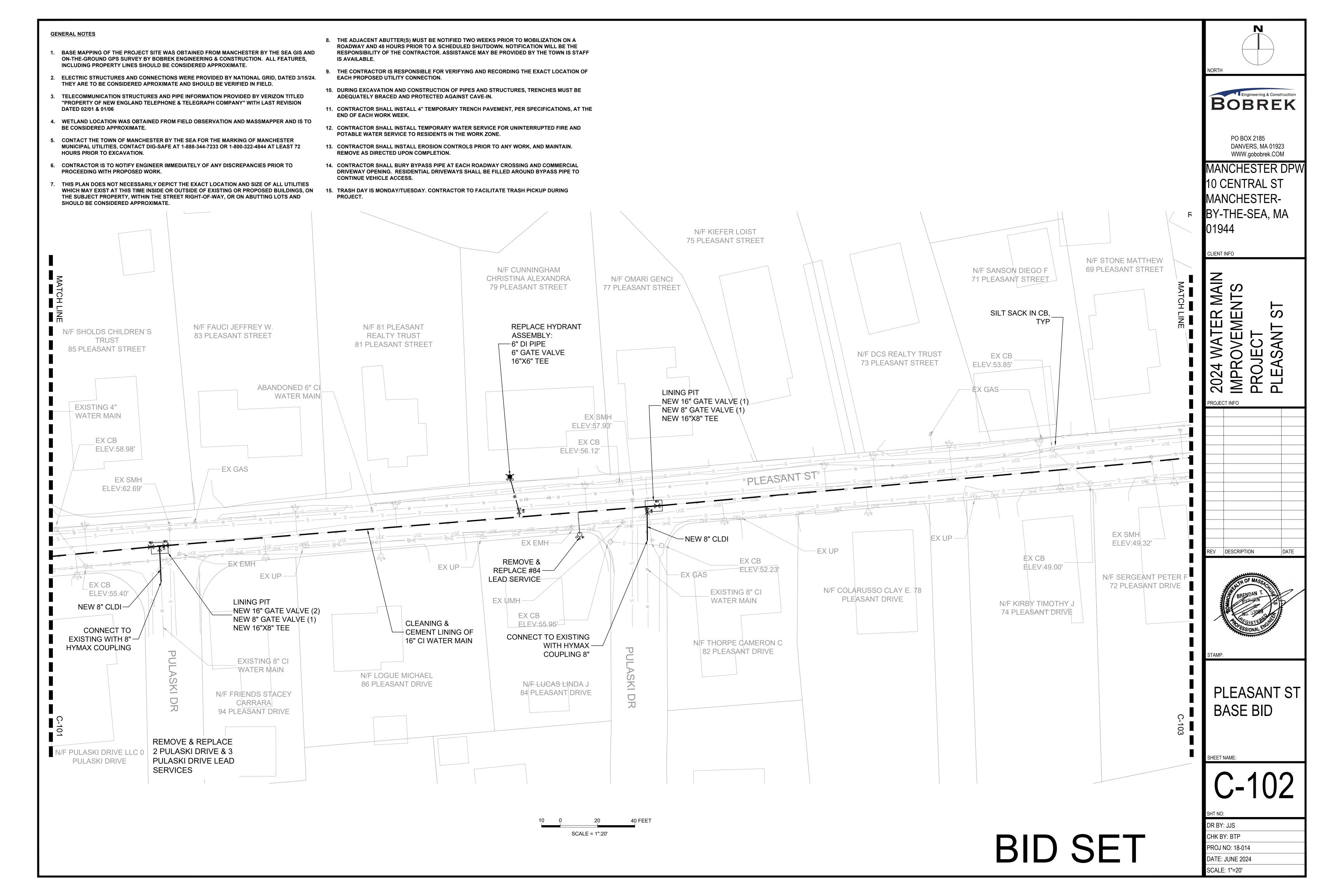
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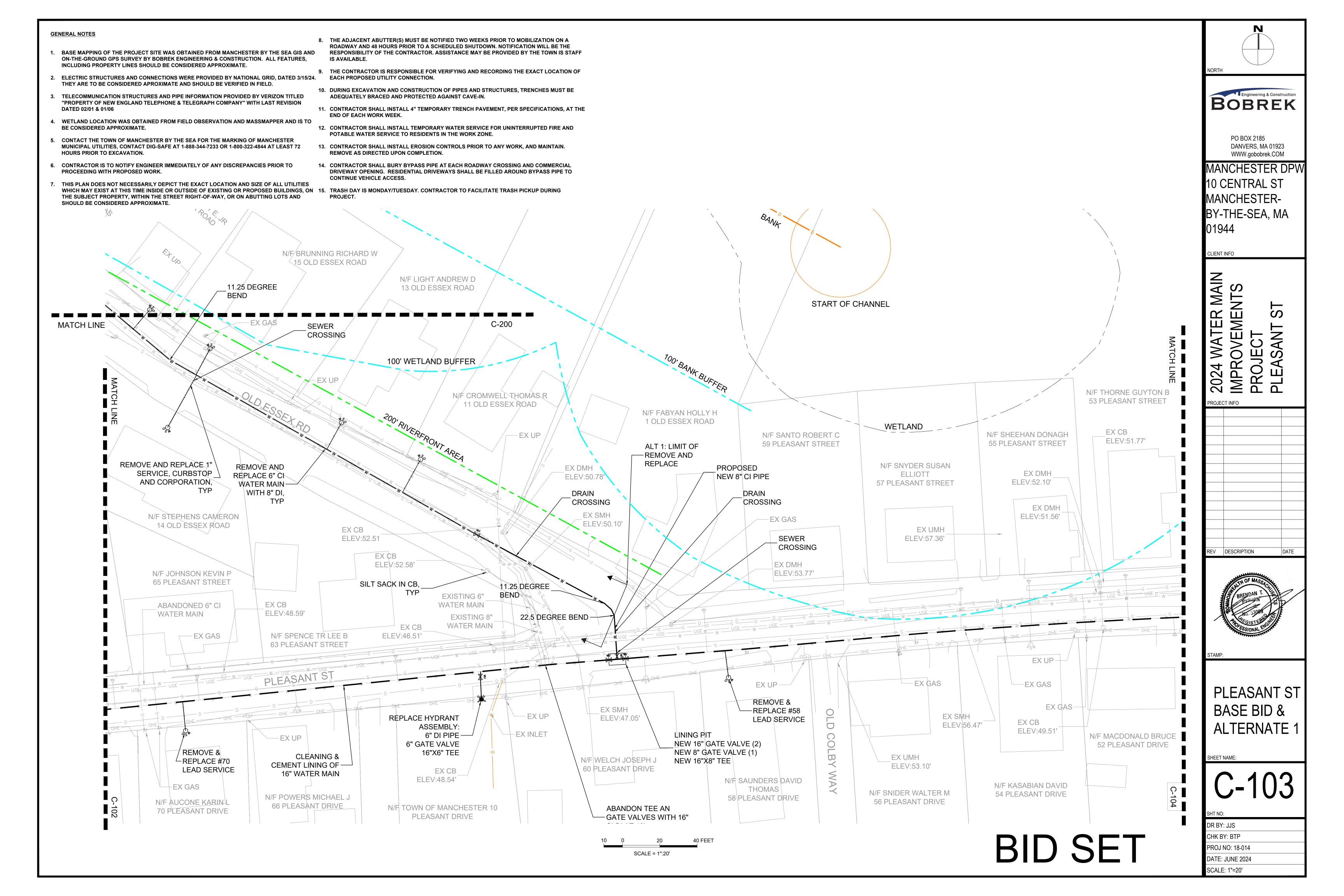
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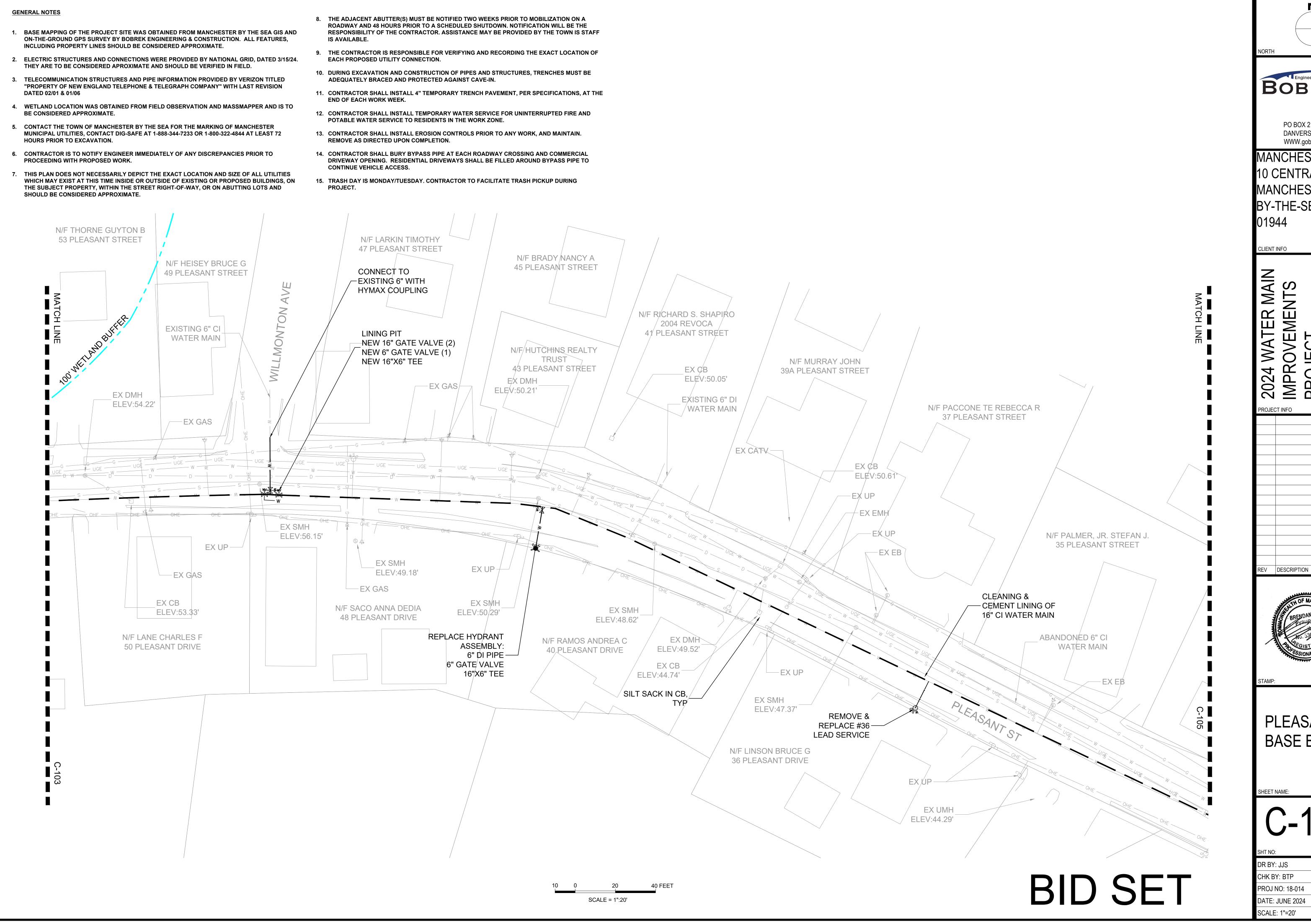
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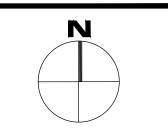
DR BY: JJS CHK BY: BTP PROJ NO: 18-014 DATE: JUNE 2024

SCALE: 1"=20'









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MANCHESTER DPW 10 CENTRAL ST MANCHESTER-BY-THE-SEA, MA

CLIENT INFO

MAIN OVEME W 2024 PROJECT INFO

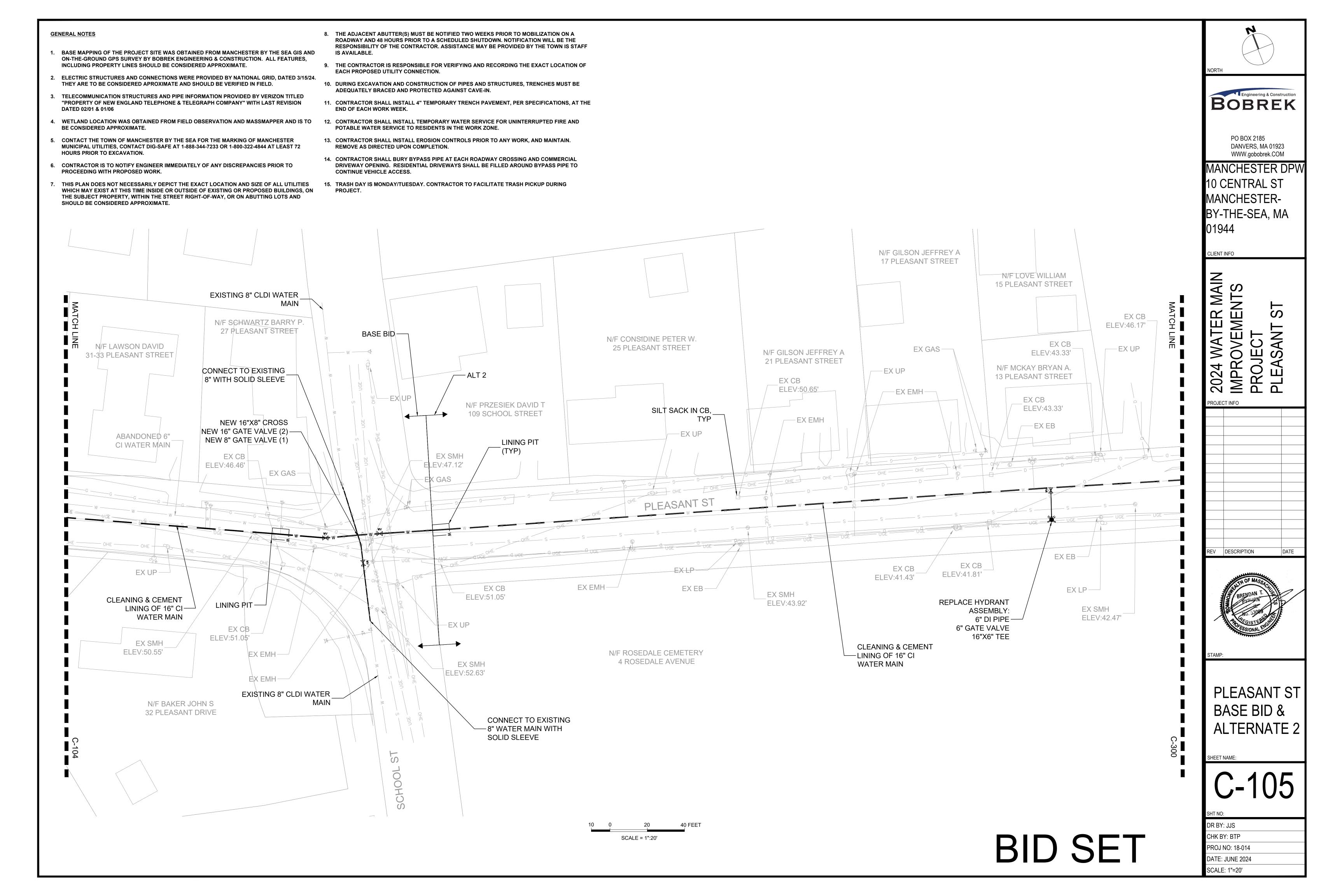


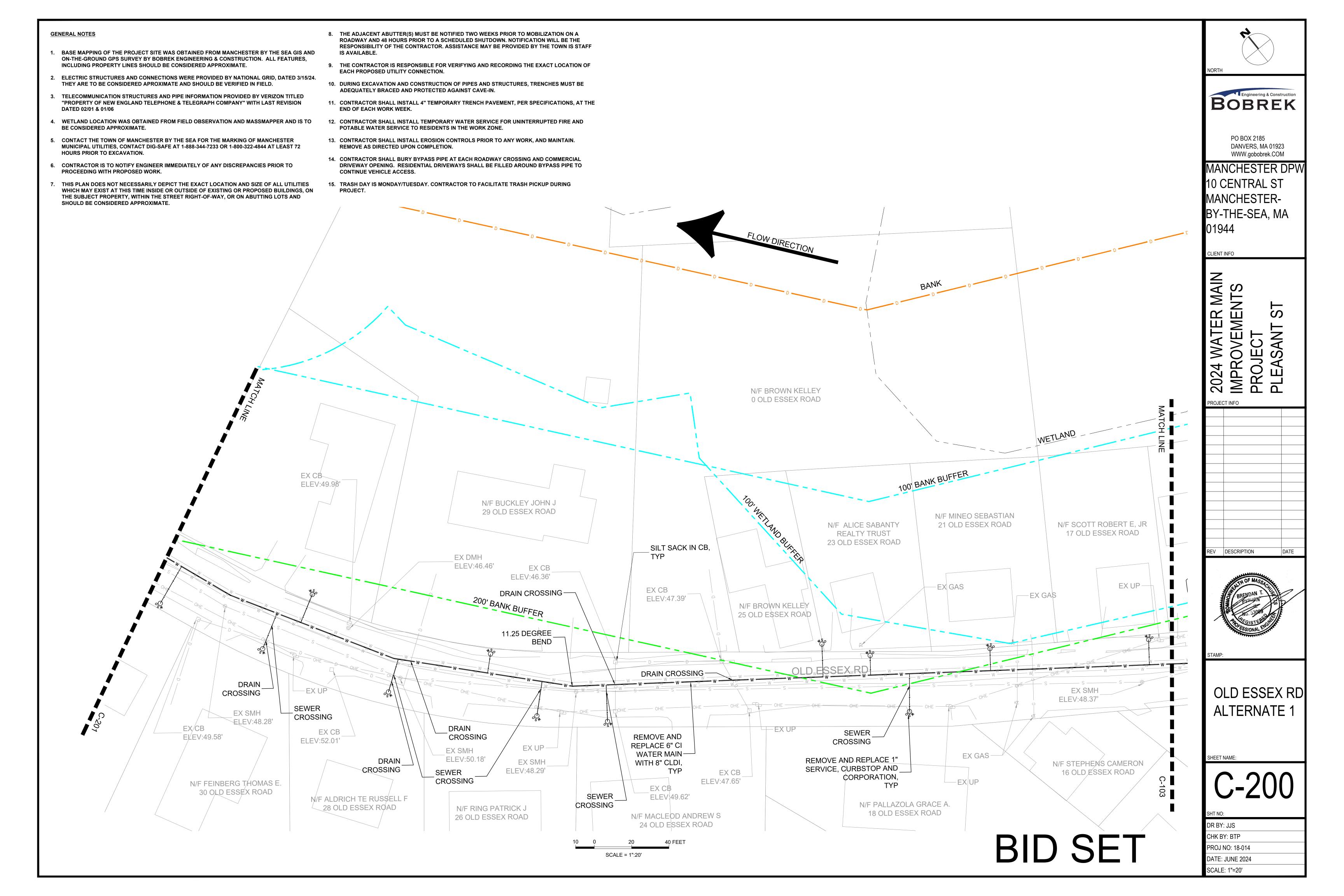
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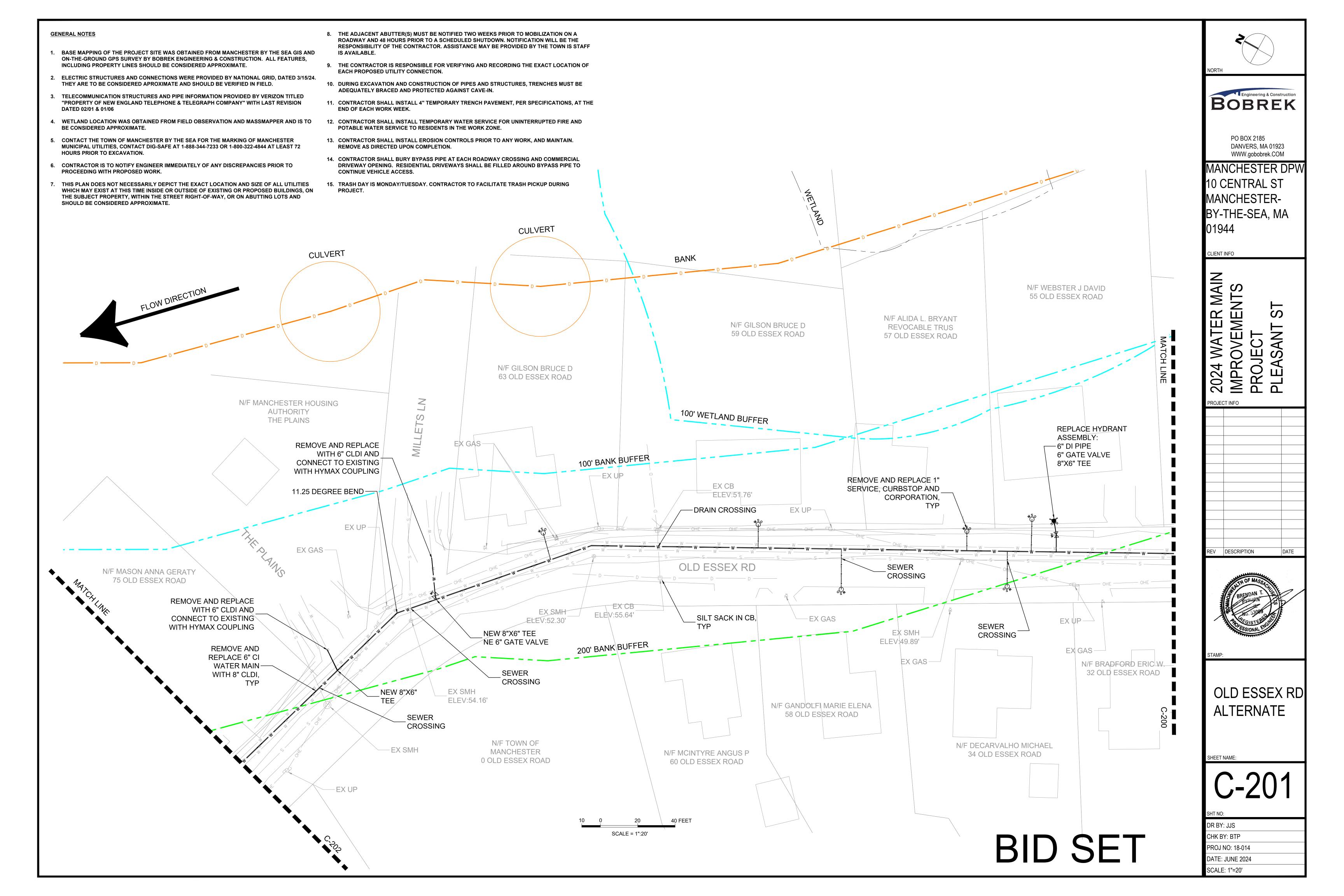
PLEASANT ST BASE BID

DR BY: JJS CHK BY: BTP

PROJ NO: 18-014 DATE: JUNE 2024

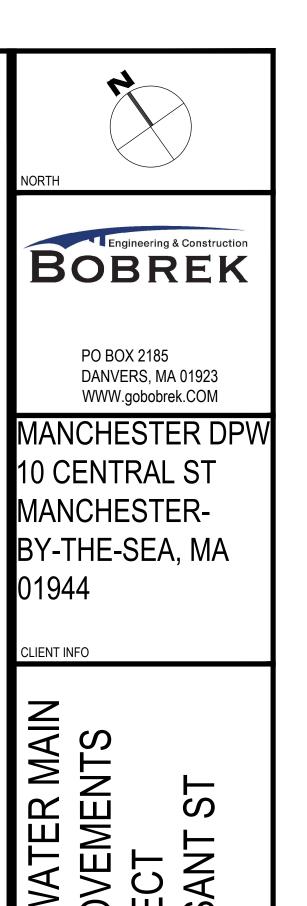






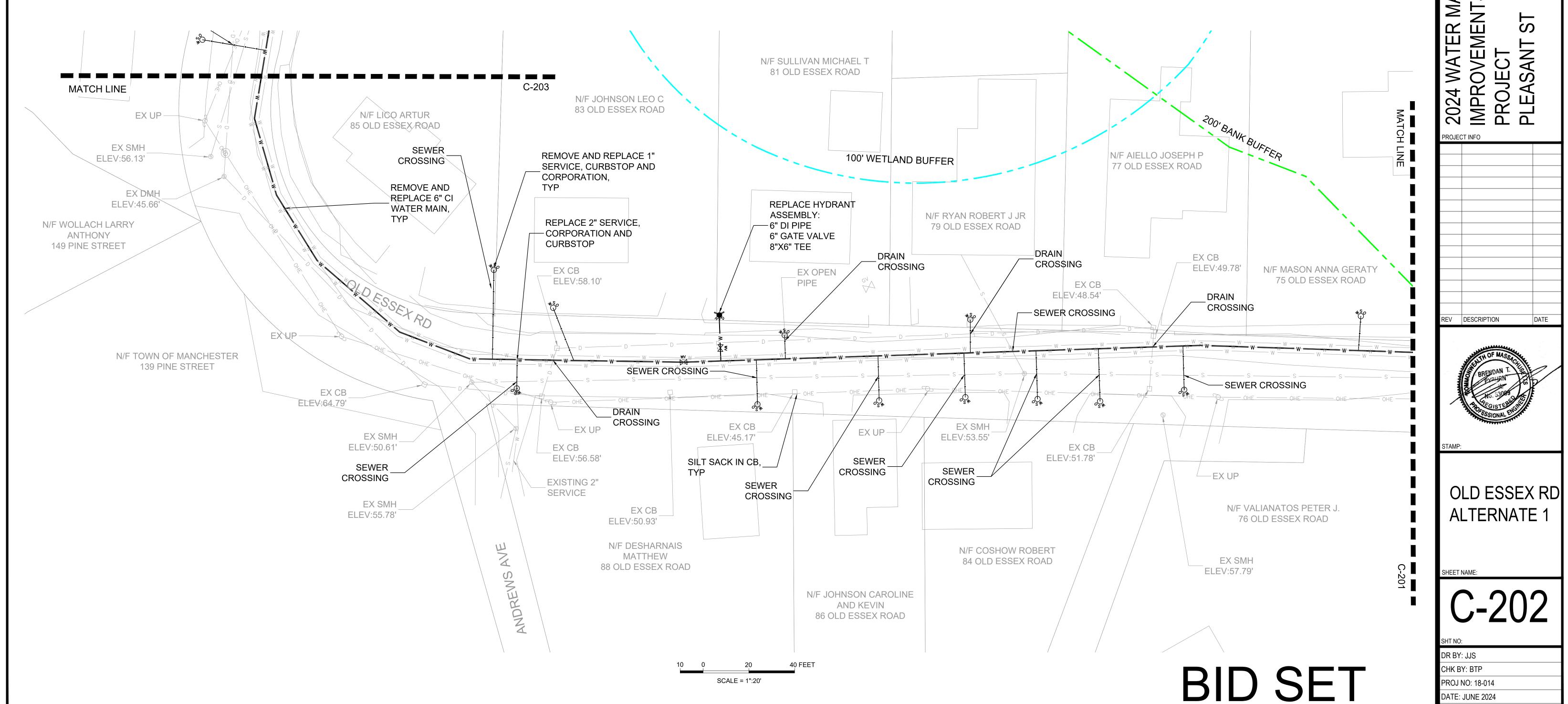
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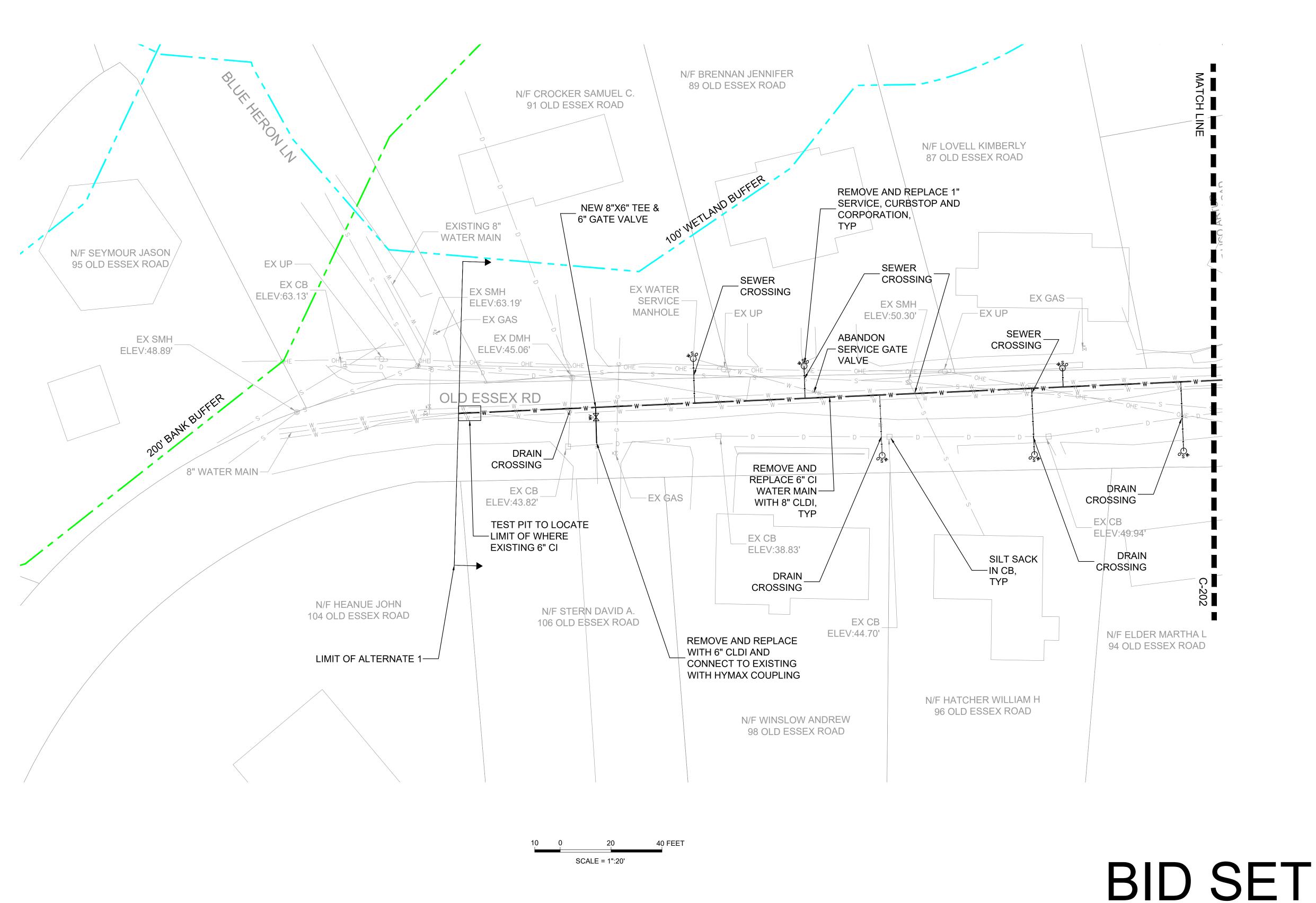
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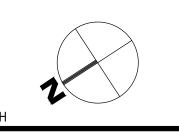
SCALE: 1"=20'



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BOBREK

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MANCHESTER DPW 10 CENTRAL ST MANCHESTER-BY-THE-SEA, MA 01944

CLIENT INFO

2024 WATER MAIN IMPROVEMENTS
PROJECT
PLEASANT ST

DATE

REV DESCRIPTION

STAMP:

OLD ESSEX RD ALTERNATE 1

HEET NAME:

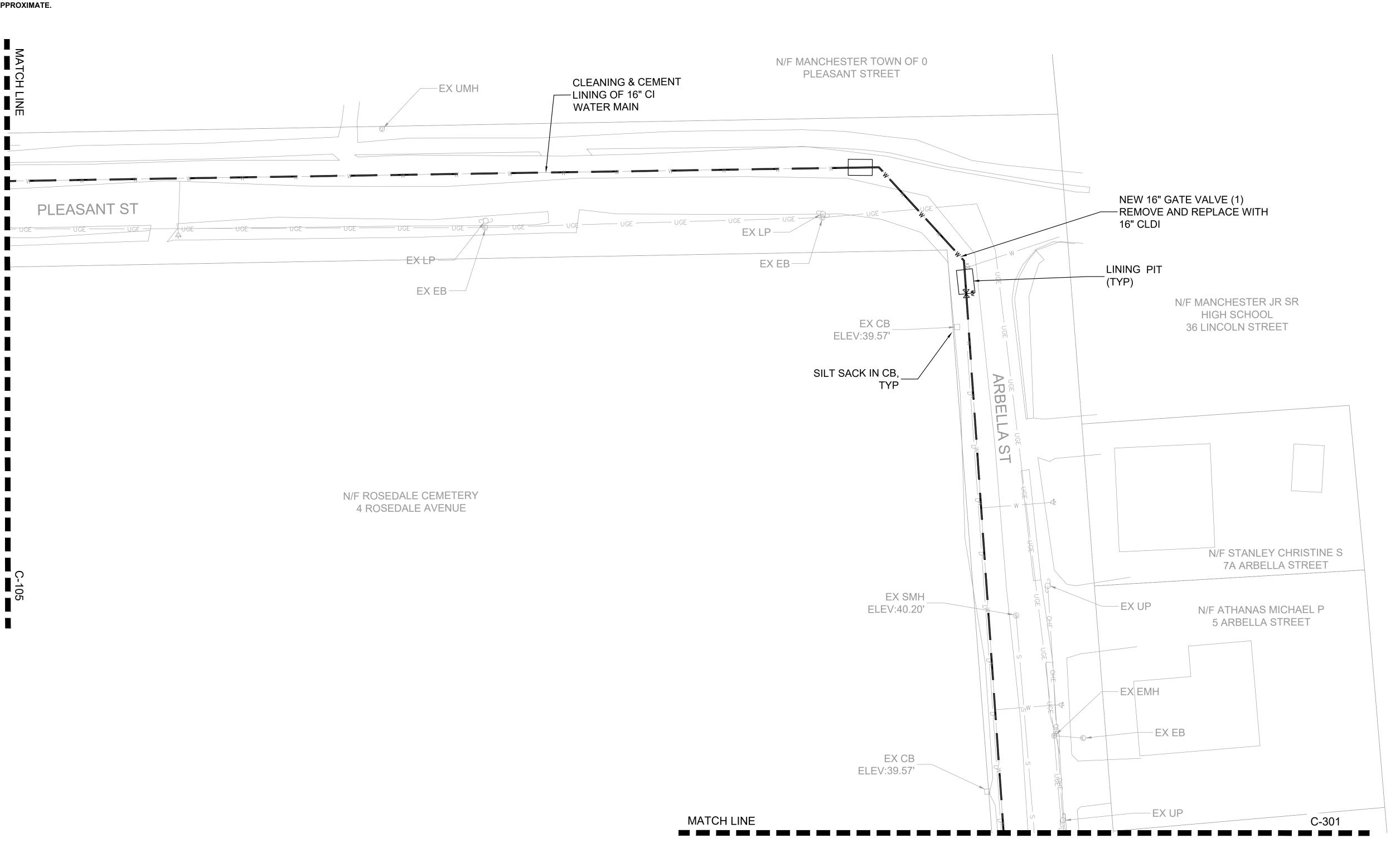
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DR BY: JJS
CHK BY: BTP
PROJ NO: 18-014
DATE: JUNE 2024

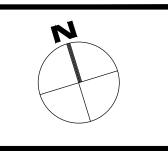
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SCALE = 1":20'



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MANCHESTER DPW 10 CENTRAL ST MANCHESTER-BY-THE-SEA, MA 01944

CLIENT INFO

2024 WATER MAIN IMPROVEMENTS PROJECT PLEASANT ST

REV DESCRIPTION DATE

BRENDAN T.

BYDLIEN

BYDLI

STAMP:

PLEASANT ST ALTERNATE 2

HEET NAME:

C-300

SHT NO:

DR BY: JJS

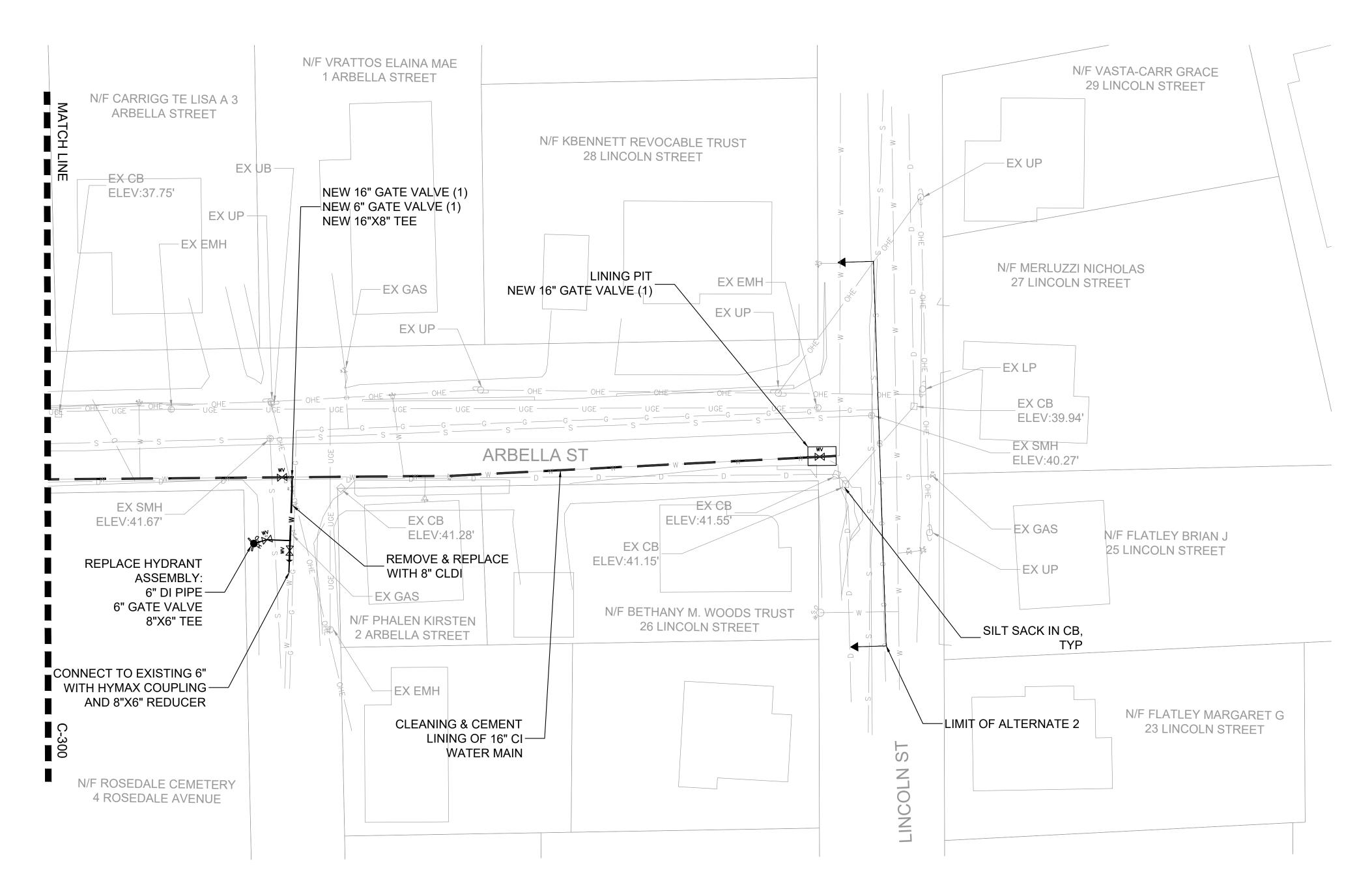
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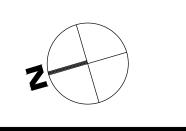
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- PROJECT.







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MANCHESTER DPW 10 CENTRAL ST MANCHESTER-BY-THE-SEA, MA 01944

CLIENT INFO

2024 WATER MAIN IMPROVEMENTS PROJECT PLEASANT ST PROJECT INFO



DATE

REV DESCRIPTION

ARBELLA ST ALTERNATE 2

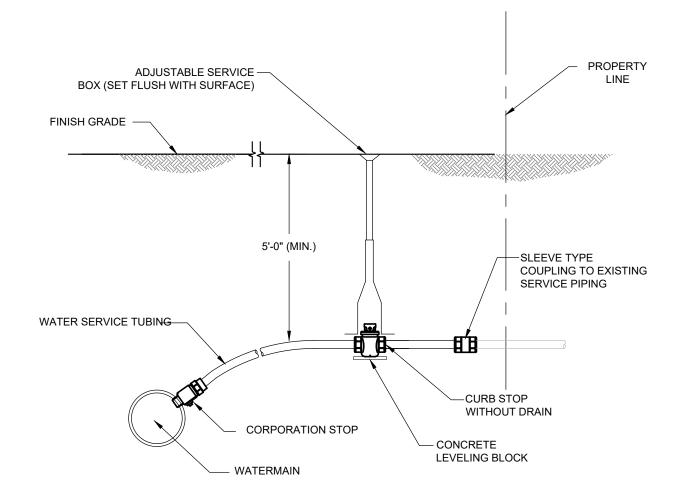
DR BY: JJS

SCALE: 1"=20'

CHK BY: BTP PROJ NO: 18-014 DATE: JUNE 2024

SCALE = 1":20'

BID SET

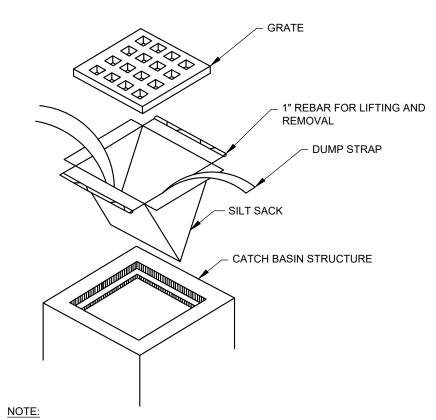


#### NOTES:

- 1. ALL JOINTS SHALL BE COMPRESSION TYPE.
- 2. WATER SERVICES SHALL BE BACKFILLED WITH SAND BY HAND TO 6" ABOVE COPPER TUBING AT 98% COMPACTION.
- 3. CORPORATION STOP LARGER THAN ONE INCH SHALL HAVE A SADDLE
- 4. SERVICE TO BE WRAPPED WITH #12 TRACER WIRE FROM CORPORATION TO CURB STOP AS SPECIFIED.
- 5. CORPORATIONS INSTALLED AFTER CIPP LINING SHALL BE INSTALLED WITH SADDLE.

#### WATER SERVICE CONNECTION

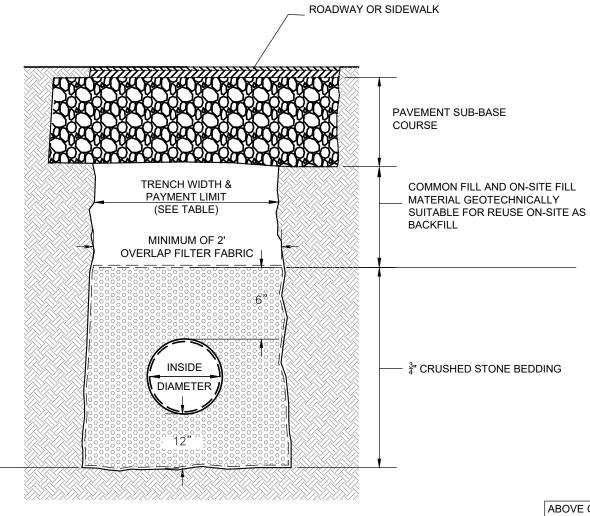
NOT TO SCALE



- INSTALL SILTSACK PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
   EMPTY OR REMOVE SEDIMENT FROM SILTSACK WHEN RESTRAINT CORD IS NO LONGER VISIBLE. CLEAN, RINSE, AND REPLACE AS NEEDED.
- 2. SILT SACKS TO BE INSTALLED AND MAINTAINED DURING CONSTRUCTION OPERATIONS.
- 3. CONTRACTOR SHALL PROVIDE SILT SACKS WITH OVERFLOW ORIFICE.

#### **TYPICAL EROSION CONTROL - SILT SACK**

NOT TO SCALE



	TRENCH PAY LIMIT TABLE FOR PIF			
	PIPE SIZE (DIA.)	MAX TRENCH WIDTH		
	LESS THAN 2"	2'-0"		
	2" TO 6"	3'-0"		
	8" TO 22"	4'-0"		
	24" & GREATER	I.D. + 2'-0"		
I.D. = INSIDE DIMENSION				
	FOR TRENCHES GREATER THAT 5' DEE			

FOR TRENCHES GREATER THAT 5' DEEP ADD MAXIMUM 3' FOR TEMPORARY SUPPORT OF EXCAVATION

_	FILTER FABRIC USE		
	SOIL TYPE		
	SILT OR CLAY	GRANULAR SOIL	
ABOVE GROUND WATER	FILTER FABRIC NOT REQUIRED	FILTER FABRIC NOT REQUIRED	
BELOW GROUND WATER	FILTER FABRIC REQUIRED	FILTER FABRIC NOT REQUIRED	

# TYPICAL UTILITY TRENCH NOT TO SCALE

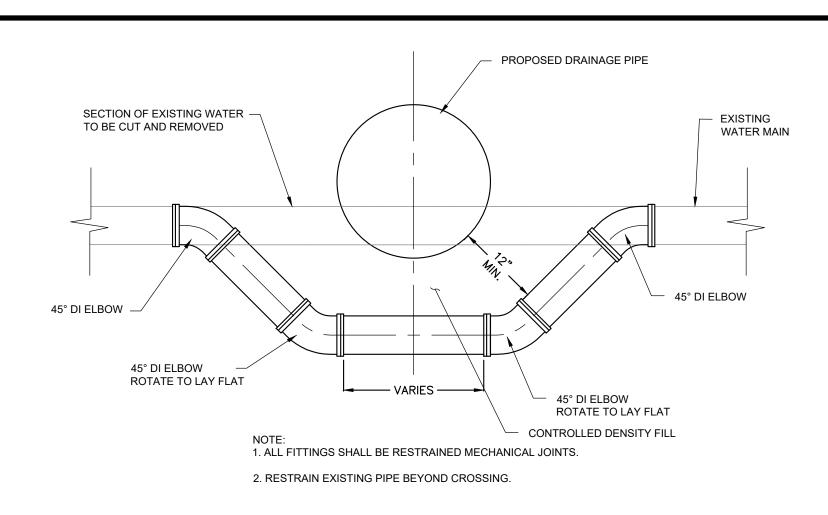
NOTE:

ANY LENGTHS OF PIPE BETWEEN STRUCTURES

OVER 150' IN LENGTH SHALL HAVE A BENTONITE

CHIP DAM INSTALLED 1' WIDE BY PIPE BEDDING

CROSS SECTION



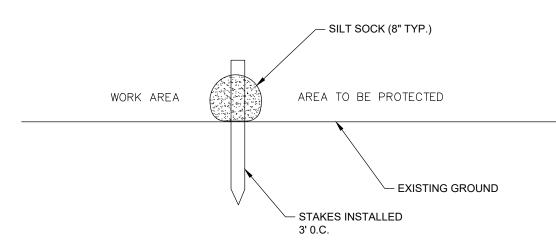
# WATER LINE CROSSING NOT TO SCALE

12" COMPACTED GRAVEL

SUBGRADE

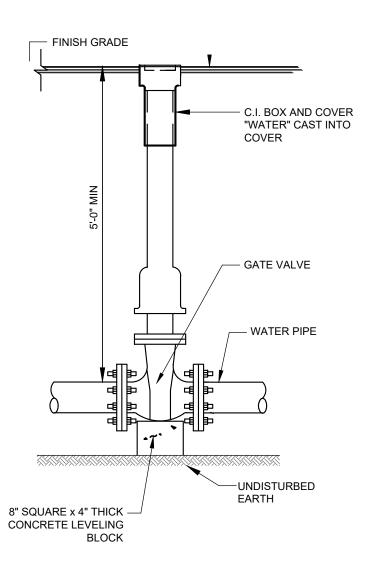
TEMPORARY TRENCH PAVEMENT

NOT TO SCALE



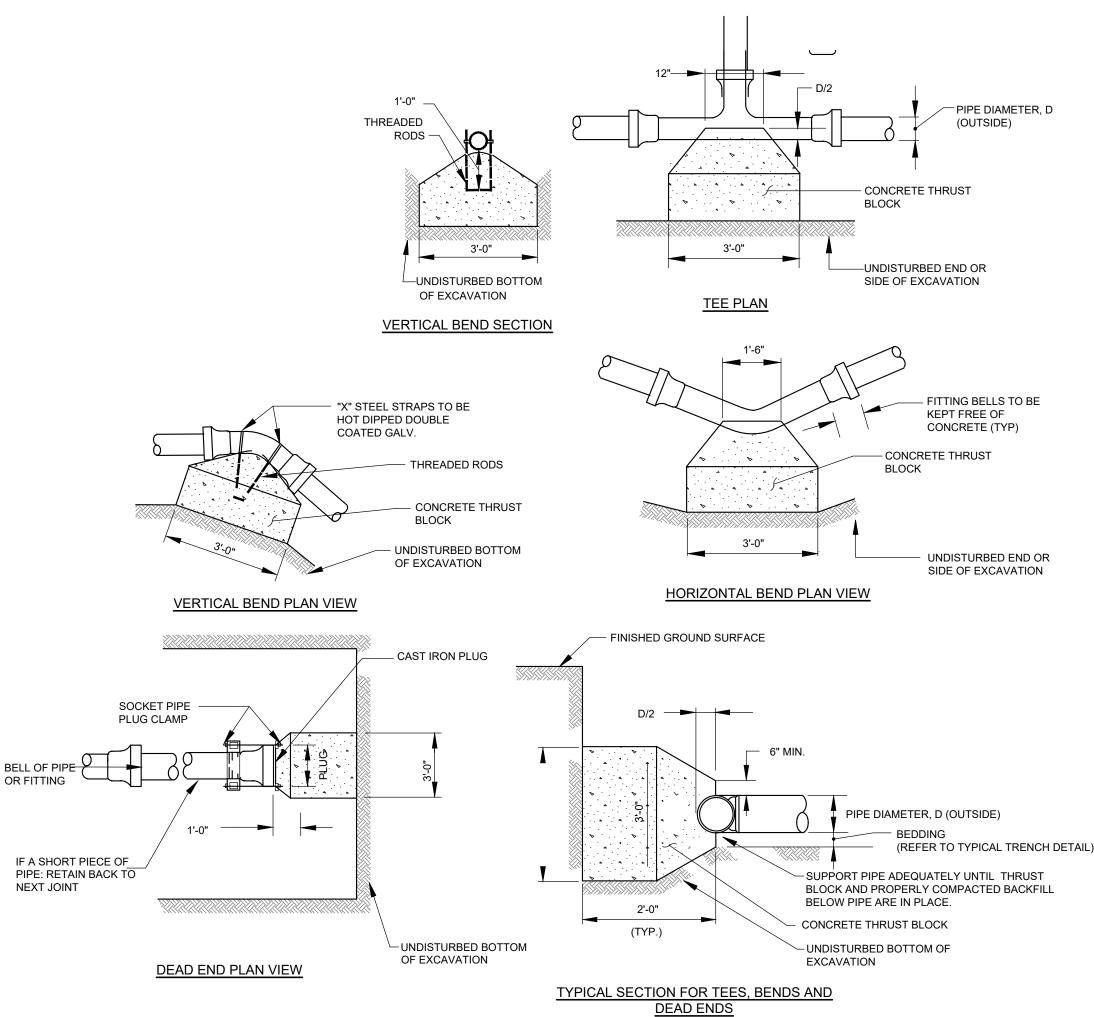
TYPICAL EROSION CONTROL - SILT SOXX

NOT TO SCALE



GATE BOX

NOT TO SCALE



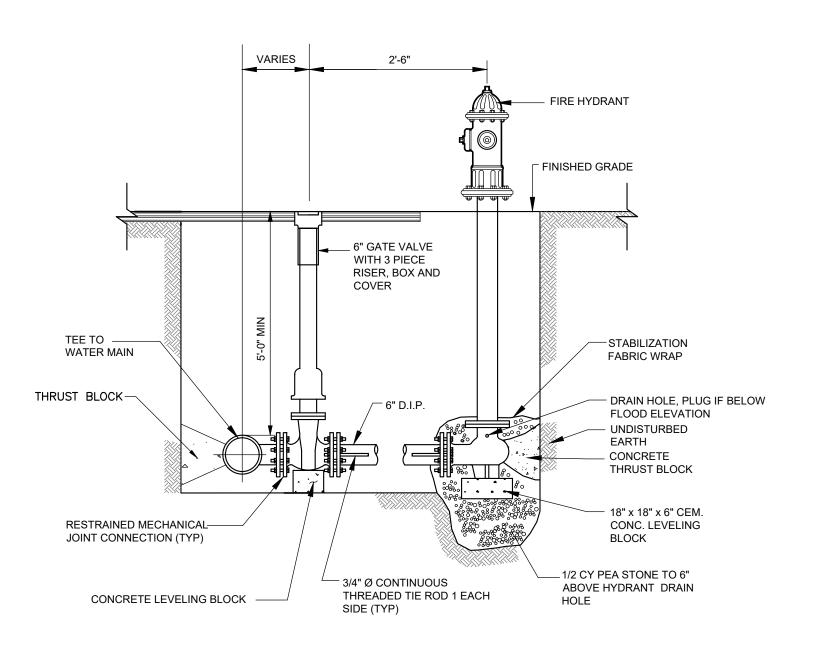
OTES:
ALL FITTINGS SHALL BE ANCHORED BY MECHANICAL MEANS OR BY CONCRETE THRUST BLOCKS, OR BOTH.

BY FIELD CONDITIONS. SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER.

ALL EXPOSED METAL SHALL BE SS304 AS SPECIFIED.
 CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRESS OF 3000 P.S.I. AT 28 DAYS.
 THESE ARE TYPICAL THRUST BLOCK INSTALLATIONS. ACTUAL METHOD OF RESTRAINT MUST BE DETERMINED

#### **TYPICAL THRUST BLOCKS**

NOT TO SCALE



FIRE HYDRANT

BID SET

BOBREK

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CLIENT INFO

2024 WATER MAIN IMPROVEMENTS PROJECT PLEASANT ST

PROJECT INFO



DATE

STAMP:

REV DESCRIPTION

DETAILS I

SHEET NAME:

C-400

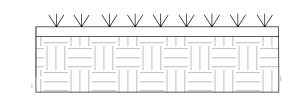
SHT NO:

DR BY: JJS

CHK BY: BTP

PROJ NO: 18-014

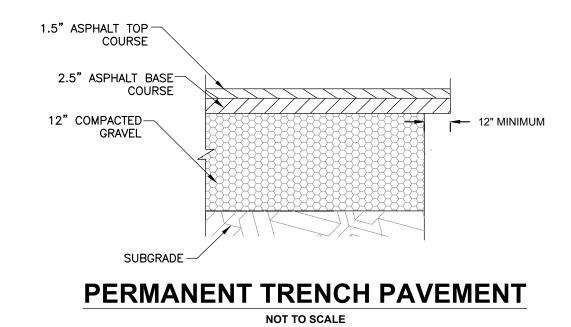
DATE: JUNE 2024

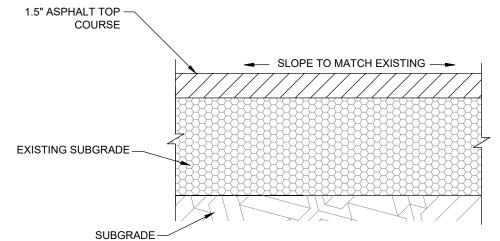


## **GRASS RESTORATION**

NOT TO SCALE

NOTES:
1. CONTRACTOR RESPONSIBLE FOR GRASS
ESTABLISHMENT AND WATERING FOR 1
GROWING SEASON.



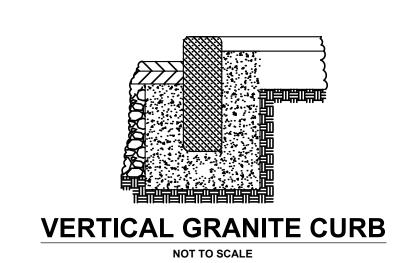


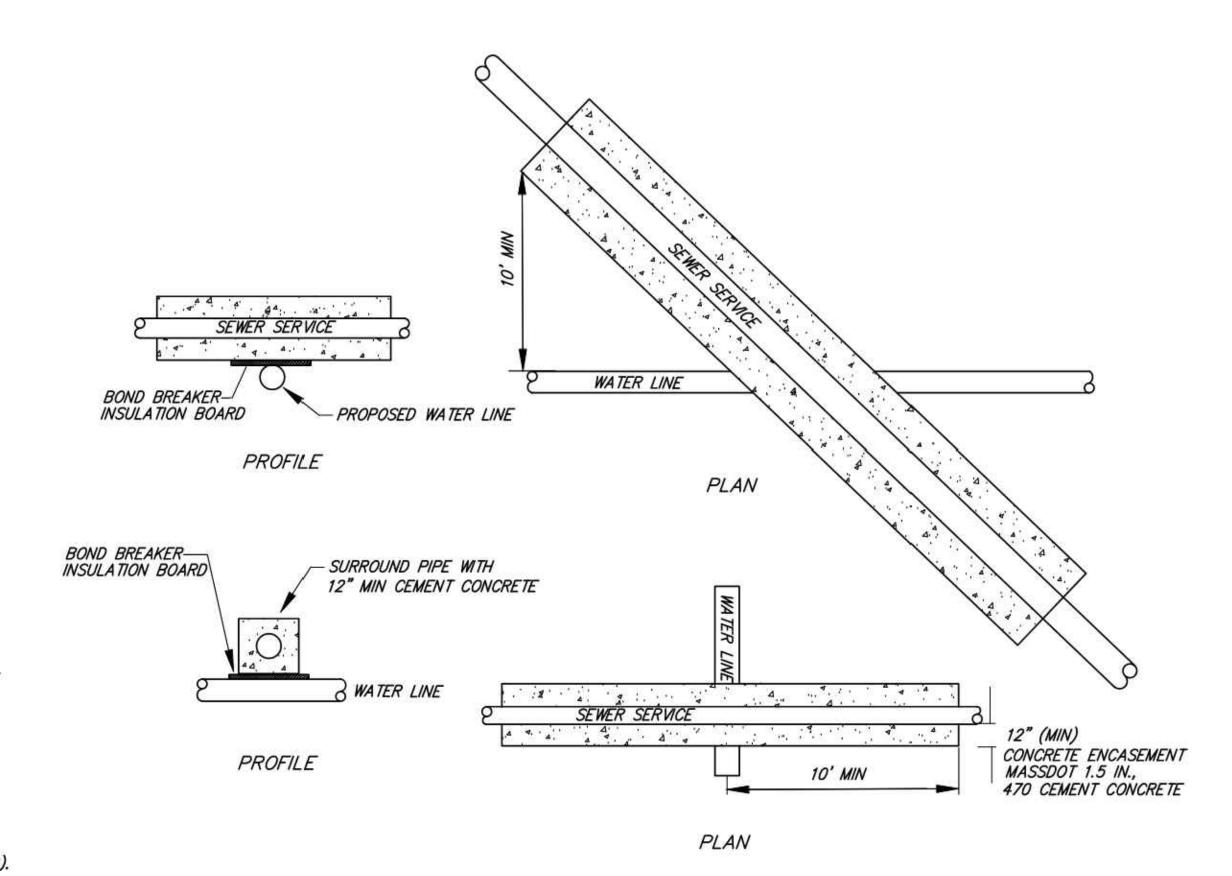
NOTE:

- CONTRACTOR SHALL APPLY TACK COAT PRIOR TO PLACING 2" OVERLAY.
- 2. CONTRACTOR SHALL ADJUST ALL STRUCTURES WITHIN RIGHT-OF WAY TO GRADE PRIOR TO INSTALLING OVERLAY.

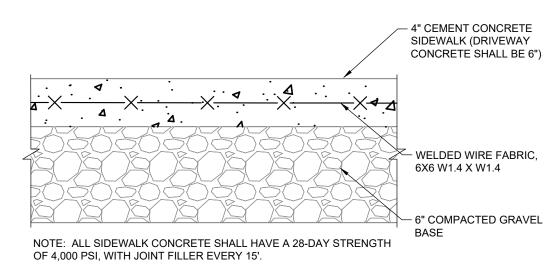
**MILL & OVERLAY** 

NOT TO SCALE



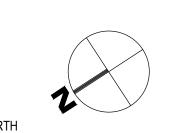


CONCRETE ENCASEMENT FOR SEWER SERVICE
NOT TO SCALE



CONCRETE SIDEWALK

NOT TO SCALE



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CLIENT INFO

2024 WATER MAIN IMPROVEMENTS PROJECT PLEASANT ST

REV	DESCRIPTION	DAT



STAMP:

**DETAILS II** 

SHEET NAME:

C-40'

SHT NO:

DR BY: JJS

CHK BY: BTP

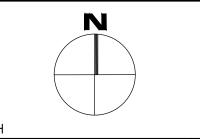
PROJ NO: 18-014

DATE: JUNE 2024

APPROXIMATE.

- BASE MAPPING OF THE PROJECT SITE WAS OBTAINED FROM MANCHESTER BY THE SEA GIS AND ON-THE-GROUND GPS SURVEY BY BOBREK ENGINEERING & CONSTRUCTION. ALL FEATURES, INCLUDING PROPERTY LINES SHOULD BE CONSIDERED APPROXIMATE.
- 2. ELECTRIC STRUCTURES AND CONNECTIONS WERE PROVIDED BY NATIONAL GRID, DATED 3/15/24. THEY ARE TO BE 11. CONTRACTOR SHALL INSTALL 4" TEMPORARY TRENCH PAVEMENT, PER SPECIFICATIONS, AT THE END OF EACH CONSIDERED APROXIMATE AND SHOULD BE VERIFIED IN FIELD.
- 3. TELECOMMUNICATION STRUCTURES AND PIPE INFORMATION PROVIDED BY VERIZON TITLED "PROPERTY OF NEW ENGLAND TELEPHONE & TELEGRAPH COMPANY" WITH LAST REVISION DATED 02/01 & 01/06
- 4. WETLAND LOCATION WAS OBTAINED FROM FIELD OBSERVATION AND MASSMAPPER AND IS TO BE CONSIDERED
- 5. CONTACT THE TOWN OF MANCHESTER BY THE SEA FOR THE MARKING OF MANCHESTER MUNICIPAL UTILITIES, CONTACT DIG-SAFE AT 1-888-344-7233 OR 1-800-322-4844 AT LEAST 72 HOURS PRIOR TO EXCAVATION.
- 6. CONTRACTOR IS TO NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH PROPOSED WORK.
- 7. THIS PLAN DOES NOT NECESSARILY DEPICT THE EXACT LOCATION AND SIZE OF ALL UTILITIES WHICH MAY EXIST AT THIS TIME INSIDE OR OUTSIDE OF EXISTING OR PROPOSED BUILDINGS, ON THE SUBJECT PROPERTY, WITHIN THE STREET RIGHT-OF-WAY, OR ON ABUTTING LOTS AND SHOULD BE CONSIDERED APPROXIMATE.
- 8. THE ADJACENT ABUTTER(S) MUST BE NOTIFIED TWO WEEKS PRIOR TO MOBILIZATION ON A ROADWAY AND 48 HOURS PRIOR TO A SCHEDULED SHUTDOWN. NOTIFICATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. ASSISTANCE MAY BE PROVIDED BY THE TOWN IS STAFF IS AVAILABLE.

- 9. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND RECORDING THE EXACT LOCATION OF EACH PROPOSED UTILITY CONNECTION.
- 10. DURING EXCAVATION AND CONSTRUCTION OF PIPES AND STRUCTURES, TRENCHES MUST BE ADEQUATELY BRACED AND PROTECTED AGAINST CAVE-IN.
- **WORK WEEK.**
- 12. CONTRACTOR SHALL INSTALL TEMPORARY WATER SERVICE FOR UNINTERRUPTED FIRE AND POTABLE WATER SERVICE TO RESIDENTS IN THE WORK ZONE.
- 13. CONTRACTOR SHALL INSTALL EROSION CONTROLS PRIOR TO ANY WORK, AND MAINTAIN. REMOVE AS DIRECTED UPON COMPLETION.
- 14. CONTRACTOR SHALL BURY BYPASS PIPE AT EACH ROADWAY CROSSING AND COMMERCIAL DRIVEWAY OPENING. RESIDENTIAL DRIVEWAYS SHALL BE FILLED AROUND BYPASS PIPE TO CONTINUE VEHICLE ACCESS.
- 15. TRASH DAY IS MONDAY/TUESDAY. CONTRACTOR TO FACILITATE TRASH PICKUP DURING PROJECT.
- 16. BYPASS PLAN SHOWN FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE TO DESIGN, SUBMIT FOR APPROVAL, IMPLEMENT, MAINTAIN, REMOVE AND RESTORE ALL WATER MAIN BYPASS ITEMS.
- 17. CUT-IN VALVES TO REMAIN ARE PAID BY NEW VALVE ITEMS.



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MANCHESTER DPW 10 CENTRAL ST BY-THE-SEA, MA

CLIENT INFO

PROJECT INFO

MAIN TER VEME W 2024  $\Box$ 

> DESCRIPTION DATE

PLEASANT ST **BYPASS SCHEMATIC** 

DR BY: JJS CHK BY: BTP

PROJ NO: 18-014 DATE: JUNE 2024 SCALE: 1"=40'



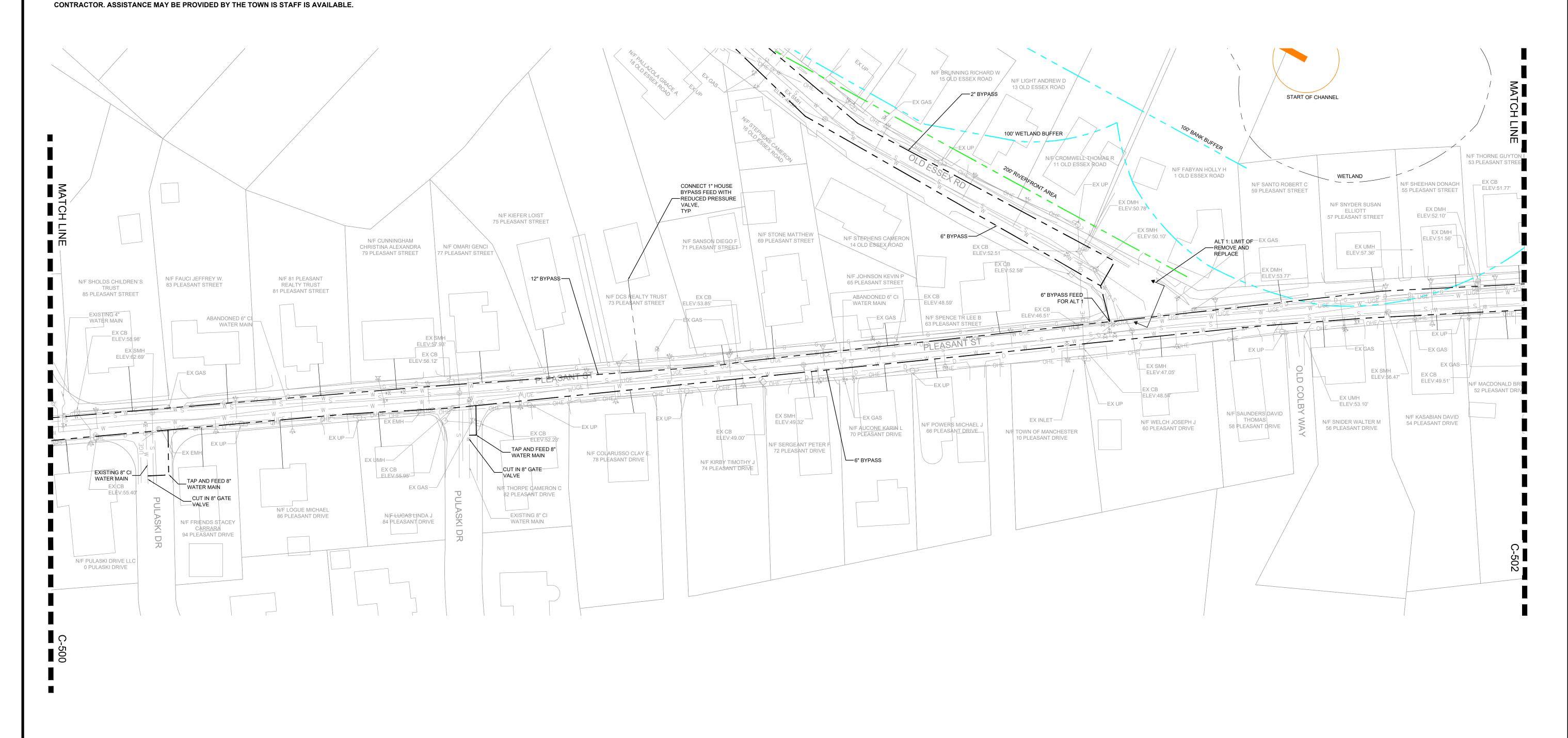
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EXIST AT THIS TIME INSIDE OR OUTSIDE OF EXISTING OR PROPOSED BUILDINGS, ON THE SUBJECT PROPERTY, WITHIN THE STREET RIGHT-OF-WAY, OR ON ABUTTING LOTS AND SHOULD BE CONSIDERED

8. THE ADJACENT ABUTTER(S) MUST BE NOTIFIED TWO WEEKS PRIOR TO MOBILIZATION ON A ROADWAY AND 48 HOURS PRIOR TO A SCHEDULED SHUTDOWN. NOTIFICATION WILL BE THE RESPONSIBILITY OF THE

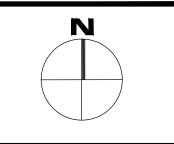
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  - 17. CUT-IN VALVES TO REMAIN ARE PAID BY NEW VALVE ITEMS.
  - 18. BYPASS FOR OLD ESSEX RD. ASSUMED TO CONSIST OF 6" AND 2".



80 FEET

SCALE = 1":40'



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MANCHESTER DPW 10 CENTRAL ST MANCHESTER-BY-THE-SEA, MA

CLIENT INFO

MAIN TER VEME W 2024 PROJECT INFO

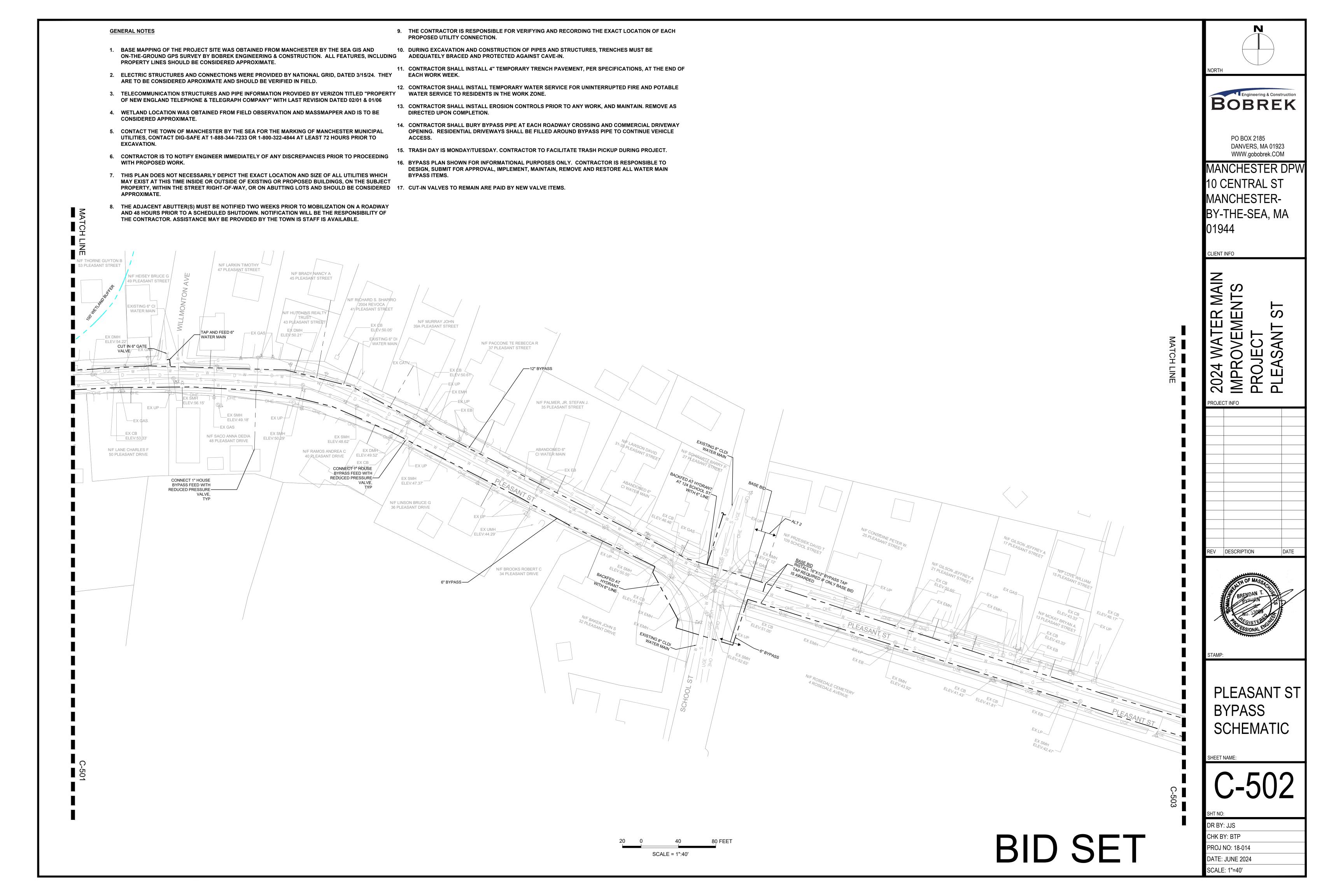
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REV DESCRIPTION

PLEASANT ST **BYPASS** SCHEMATIC

BID SET

DR BY: JJS CHK BY: BTP PROJ NO: 18-014 DATE: JUNE 2024 SCALE: 1"=40'



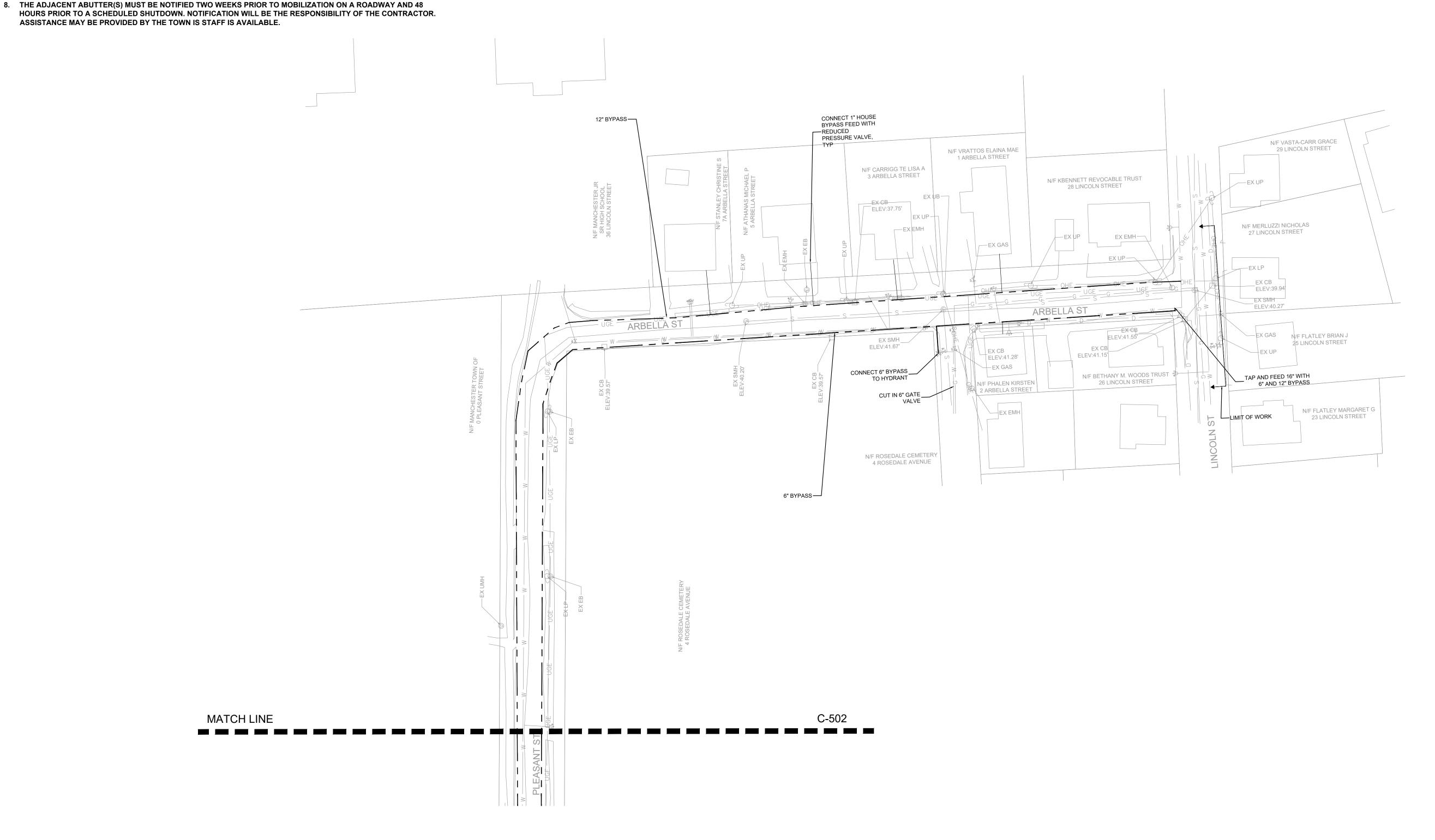
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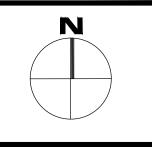
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SERVICE TO RESIDENTS IN THE WORK ZONE.



SCALE = 1":40'



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MANCHESTER DPW 10 CENTRAL ST MANCHESTER-BY-THE-SEA, MA 01944

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2024 WATER MAIN IMPROVEMENTS
PROJECT
PLEASANT ST

REV DESCRIPTION DATE

BRENDAN T.

BYDHEN

BYDH

STAMP:

PLEASANT ST BYPASS SCHEMATIC

SHEET NAM

C-503

SHT NO: DR BY: JJS

SCALE: 1"=40'

DR BY: JJS
CHK BY: BTP
PROJ NO: 18-014
DATE: JUNE 2024

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