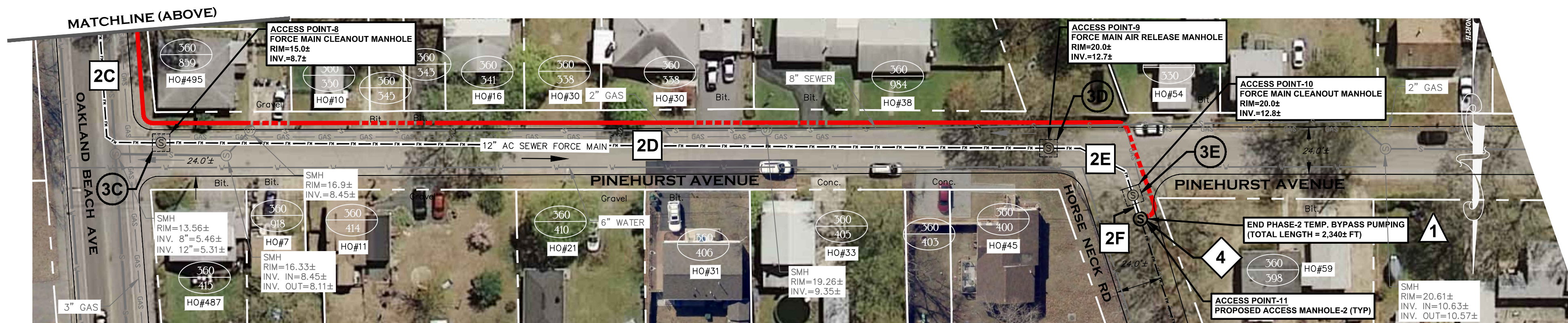
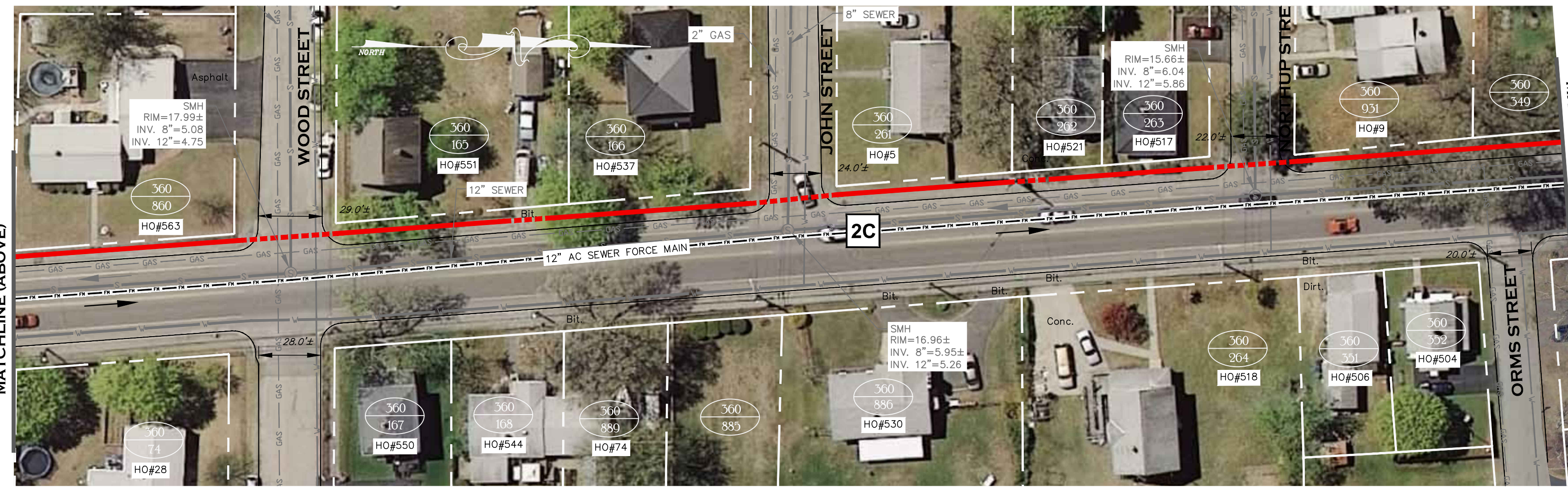


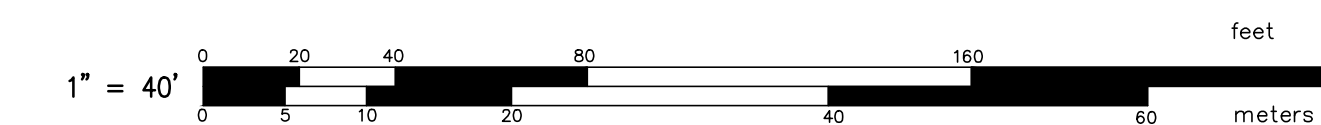
**PHASE-2 SEQUENCE OF WORK:**

- 1 INSTALL & INITIATE TEMP. BYPASS FROM ACCESS POINT-5 TO ACCESS POINT-11
- 2 CIPP LINING OPERATIONS
  - 2A ACCESS POINT-5 TO ACCESS POINT-6
  - 2B ACCESS POINT-6 TO ACCESS POINT-7
  - 2C ACCESS POINT-7 TO ACCESS POINT-8
  - 2D ACCESS POINT-8 TO ACCESS POINT-9
  - 2E ACCESS POINT-9 TO ACCESS POINT-10
  - 2F ACCESS POINT-10 TO ACCESS POINT-11
- 3 REJOIN PIPE WITHIN STRUCTURES
  - 3A ACCESS POINT-6
  - 3B ACCESS POINT-7
  - 3C ACCESS POINT-8
  - 3D ACCESS POINT-9
  - 3E ACCESS POINT-10
- 4 REJOIN PIPE WITHIN ACCESS POINTS 5 & 11 AND RESUME FLOW



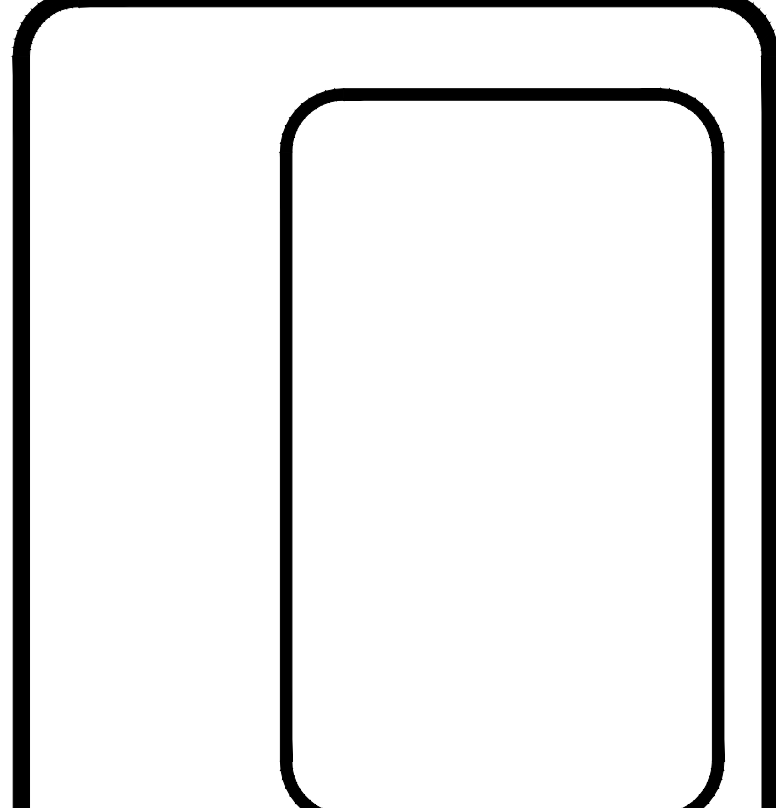
PHASE-2 RELINING LENGTHS		
ACCESS POINT #		LENGTH (FT)
BEGIN	END	
5	6	181±
6	7	783±
7	8	825±
8	9	457±
9	10	55±
10	11	13±

**LEGEND:**  
 TEMP. BYPASS (ABOVE GROUND)  
 TEMP. BYPASS (BELOW GROUND)



**CIPP PHASE-2**  
**OAKLAND BEACH AVENUE & PINEHURST AVENUE**  
 FOR  
**OAKLAND BEACH FORCE MAIN REHABILITATION**  
 SITUATED AT  
**OAKLAND BEACH WARWICK, RI**  
 PREPARED FOR  
**WARWICK SEWER AUTHORITY**

NO.	REVISION	BY	DATE



**GAROFALO**  
 GAROFALO & ASSOCIATES, INC.  
 CIVIL & STRUCTURAL ENGINEERS/SURVEYORS  
 LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

Corofalo & Associates ©  
 These drawings are the property of the engineer/surveyor and have been prepared for the specific project. No part of this drawing is to be used for any other purpose, location or owner without written consent of this owner or one of its directors.

85 CORLISS STREET  
 P.O. BOX 6145  
 PROVIDENCE, R.I. 02940  
 TEL. 401-273-6000

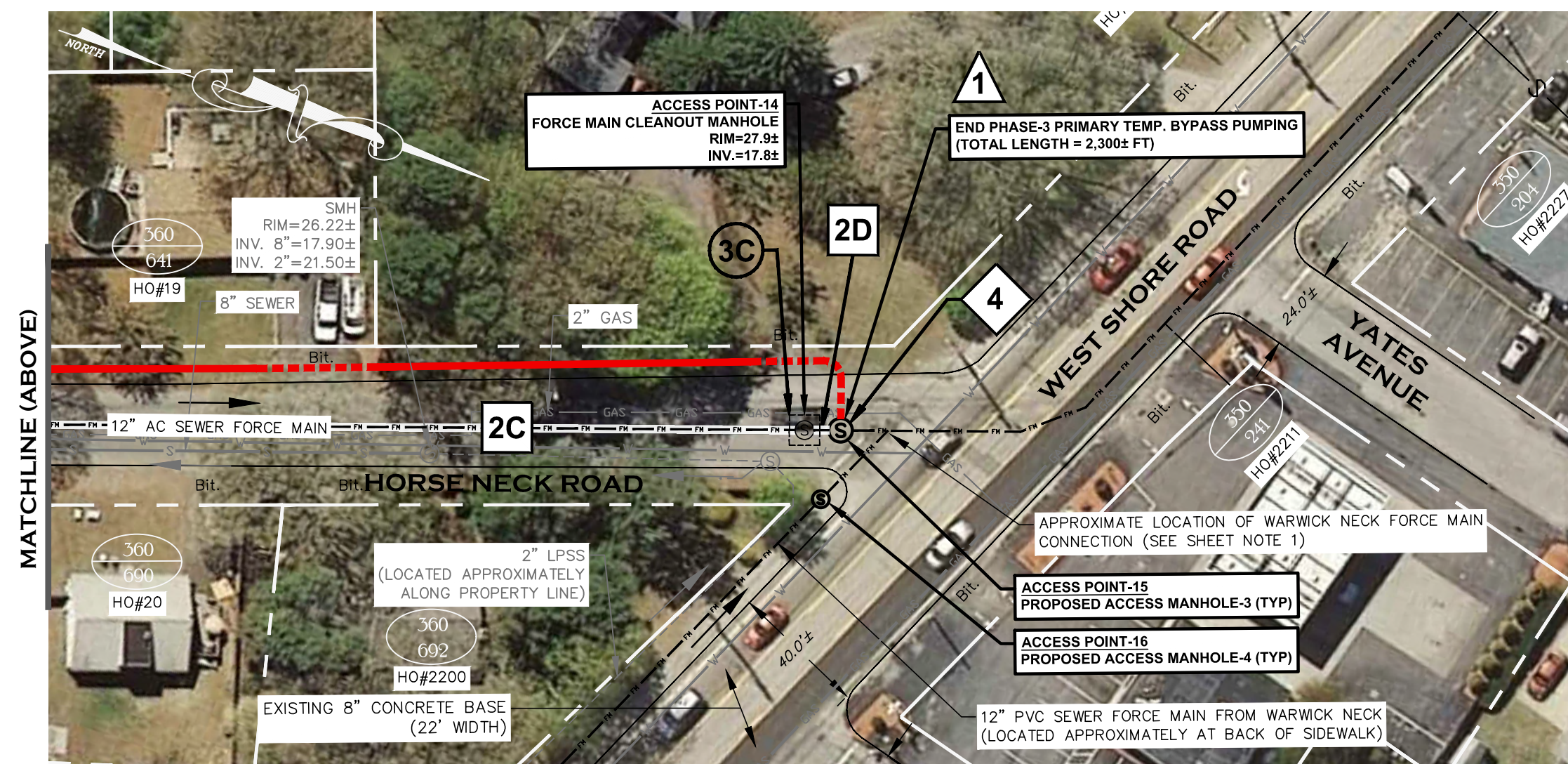
JOB NO. 7279-00	DRAWN BY R.A.S.
DWG. NO. 7279-00-Base.dwg	CHECK BY S.S.H.
SCALE: AS SHOWN	APPROVED S.B.G.
	DATE: OCTOBER 22, 2021

SHEET  
7  
 7 OF 22 SHEETS



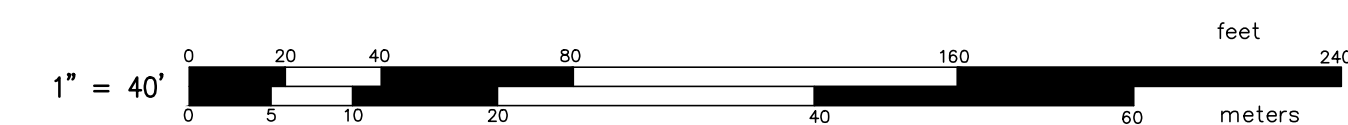
**PHASE-3 SEQUENCE OF WORK:**

- ▲ INSTALL & INITIATE PRIMARY TEMP. BYPASS FROM ACCESS POINT-11 TO ACCESS POINT-15
- 2 CIPP LINING OPERATIONS
  - 2A ACCESS POINT-11 TO ACCESS POINT-12.
  - 2B ACCESS POINT-12 TO ACCESS POINT-13
  - 2C ACCESS POINT-13 TO ACCESS POINT-14
  - 2D ACCESS POINT-14 TO ACCESS POINT-15
- 3 REJOIN PIPE WITHIN STRUCTURES
  - 3A ACCESS POINT-12
  - 3B ACCESS POINT-13
  - 3C ACCESS POINT-14
- ◆ REJOIN PIPE WITHIN ACCESS POINTS 11 & 15 AND RESUME FLOW



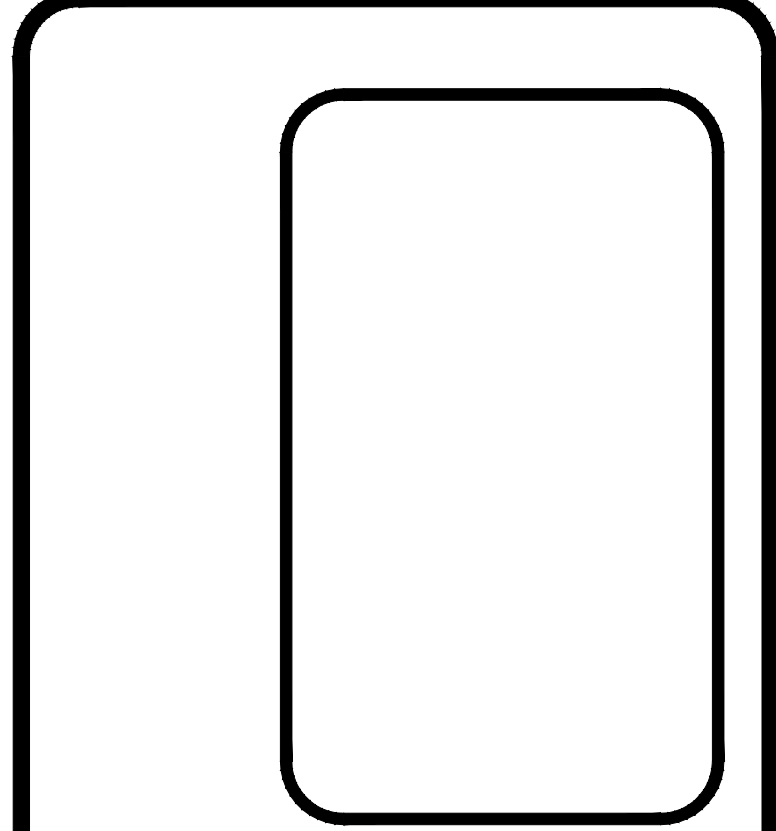
PHASE-3 RELINING LENGTHS		
ACCESS POINT #		LENGTH (FT)
BEGIN	END	
11	12	1,168±
12	13	722±
13	14	377±
14	15	10±

**LEGEND:**  
——— PRIMARY TEMP. BYPASS (ABOVE GROUND)  
- - - - - PRIMARY TEMP. BYPASS (BELOW GROUND)



CIPP PHASE-3  
 HORSE NECK ROAD  
 FOR  
**OAKLAND BEACH FORCE MAIN  
 REHABILITATION**  
 SITUATED AT  
**OAKLAND BEACH  
 WARWICK, RI**  
 PREPARED FOR  
**WARWICK SEWER AUTHORITY**

NO.	REVISION	BY	DATE



**GAROFALO**  
 GAROFALO & ASSOCIATES, INC.  
 CIVIL & STRUCTURAL ENGINEERS/SURVEYORS  
 LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

Garofalo & Associates ©  
 These drawings are the property of the engineer/surveyor and have been prepared for the specific project. No part of this drawing is to be used for any other purpose, location or owner without written consent of this owner or one of its directors.

85 CORLISS STREET  
 P.O. BOX 6145  
 PROVIDENCE, RI 02940  
 TEL. 401-273-6000

JOB NO. 7279-00	DRAWN BY R.A.S.
DWG. NO. 7279-00-Base.dwg	CHECK BY S.S.H.
SCALE: AS SHOWN	APPROVED S.B.G.
	DATE: OCTOBER 22, 2021

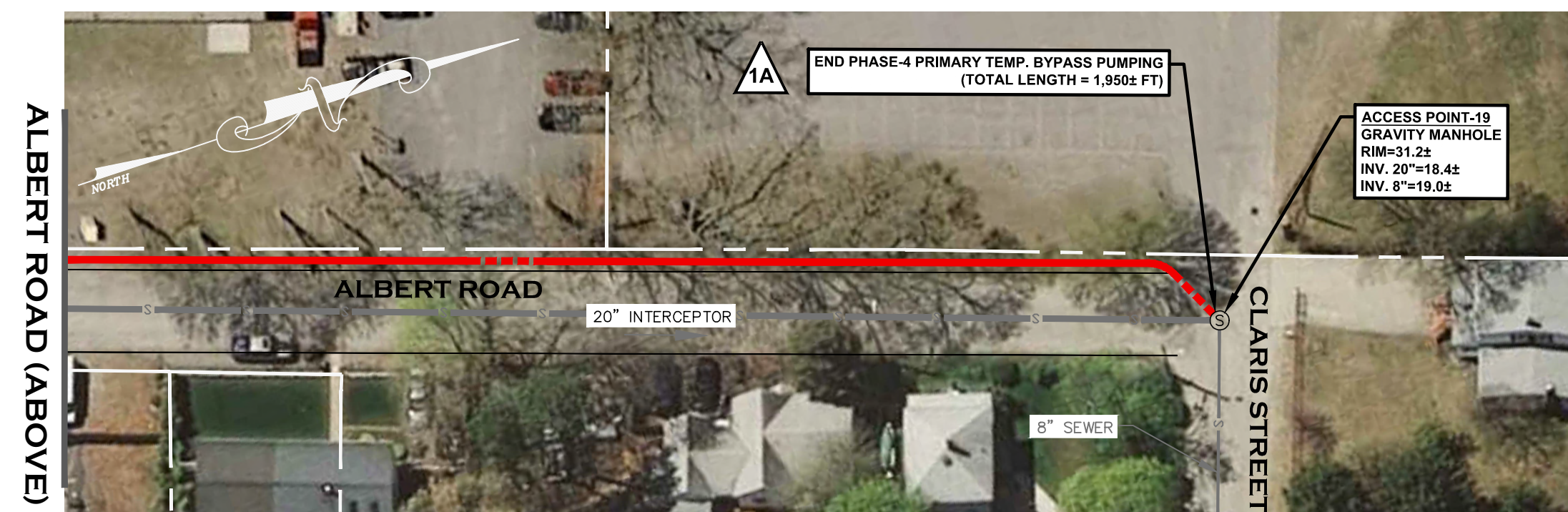
SHEET  
8  
 8 OF 22 SHEETS

L:\7279-00 Oakland Beach (WSA) - Warwick, RI\Map\01-Current\7279-00-Base.dwg 02/17/2022 reviewers 16:53



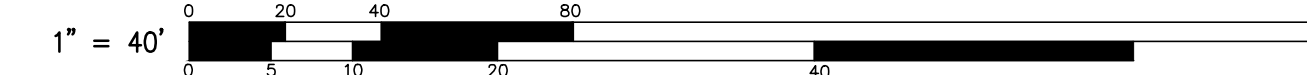
**PHASE-4 SEQUENCE OF WORK:**

- △ TEMPORARY BYPASS OPERATIONS
  - △ INSTALL & INITIATE PRIMARY TEMP. BYPASS FROM ACCESS POINT-15 TO ACCESS POINT-19
  - △ INSTALL & INITIATE WARWICK NECK FORCE MAIN BYPASS PIPING FROM ACCESS POINT-16 TO PRIMARY BYPASS
  - △ INSTALL & INITIATE PETTIS DRIVE FORCE MAIN BYPASS PIPING FROM ACCESS POINT-18 TO PRIMARY BYPASS PIPING
- 2 CIPP LINING OPERATIONS
  - 2A ACCESS POINT-15 TO ACCESS POINT-17.
  - 2B ACCESS POINT-17 TO ACCESS POINT-18
- 3 REJOIN PIPE WITHIN STRUCTURES
  - 3A REJOIN PIPE WITHIN ACCESS POINT-17
- 4 REJOIN PIPE WITHIN ACCESS POINTS 15, 16 & 18 AND RESUME FLOW



PHASE-4 RELINING LENGTHS		
ACCESS POINT #		LENGTH (FT)
BEGIN	END	
15	17	673±
17	18	763±

- LEGEND:**
- PRIMARY TEMP. BYPASS (ABOVE GROUND)
  - - - PRIMARY TEMP. BYPASS (BELOW GROUND)
  - WARWICK NECK FORCE MAIN TEMP. BYPASS (BELOW GROUND)
  - - - WARWICK NECK FORCE MAIN TEMP. BYPASS (BELOW GROUND)
  - PETTIS DRIVE FORCE MAIN TEMP. BYPASS (BELOW GROUND)
  - - - PETTIS DRIVE FORCE MAIN TEMP. BYPASS (BELOW GROUND)



**CIPP PHASE-4**  
**WEST SHORE ROAD**  
 FOR  
**OAKLAND BEACH FORCE MAIN**  
**REHABILITATION**  
 SITUATED AT  
**OAKLAND BEACH**  
**WARWICK, RI**  
 PREPARED FOR  
**WARWICK SEWER AUTHORITY**

NO.	REVISION	BY	DATE

**GAROFALO**  
**GAROFALO & ASSOCIATES, INC.**  
**CIVIL & STRUCTURAL ENGINEERS/SURVEYORS**  
**LAND PLANNERS/ENVIRONMENTAL SCIENTISTS**

Corofalo & Associates ©  
 These drawings are the property of  
 the engineer/surveyor and have been  
 prepared for the specific use of the  
 project at this site and are not to  
 be used for any other purpose,  
 location or owner without written  
 consent of this owner or one of its  
 directors.

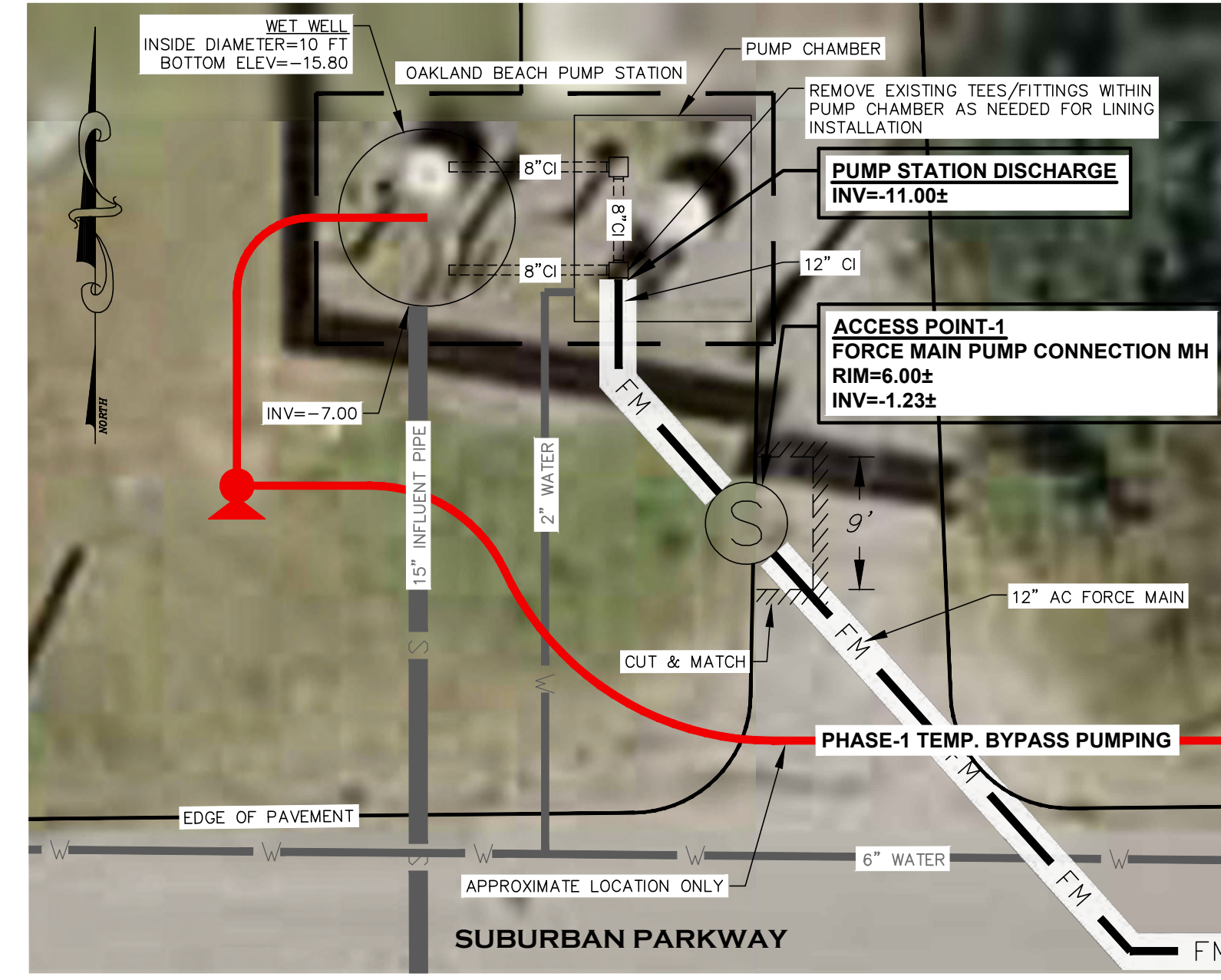
85 CORLISS STREET  
 P.O. BOX 6145  
 PROVIDENCE, RI 02940  
 TEL. 401-273-6000

JOB NO. 7279-00	DRAWN BY R.A.S.
DWG. NO. 7279-00-Base.dwg	CHECK BY S.S.H.
SCALE: AS SHOWN	APPROVED S.B.G.
	DATE: OCTOBER 22, 2021

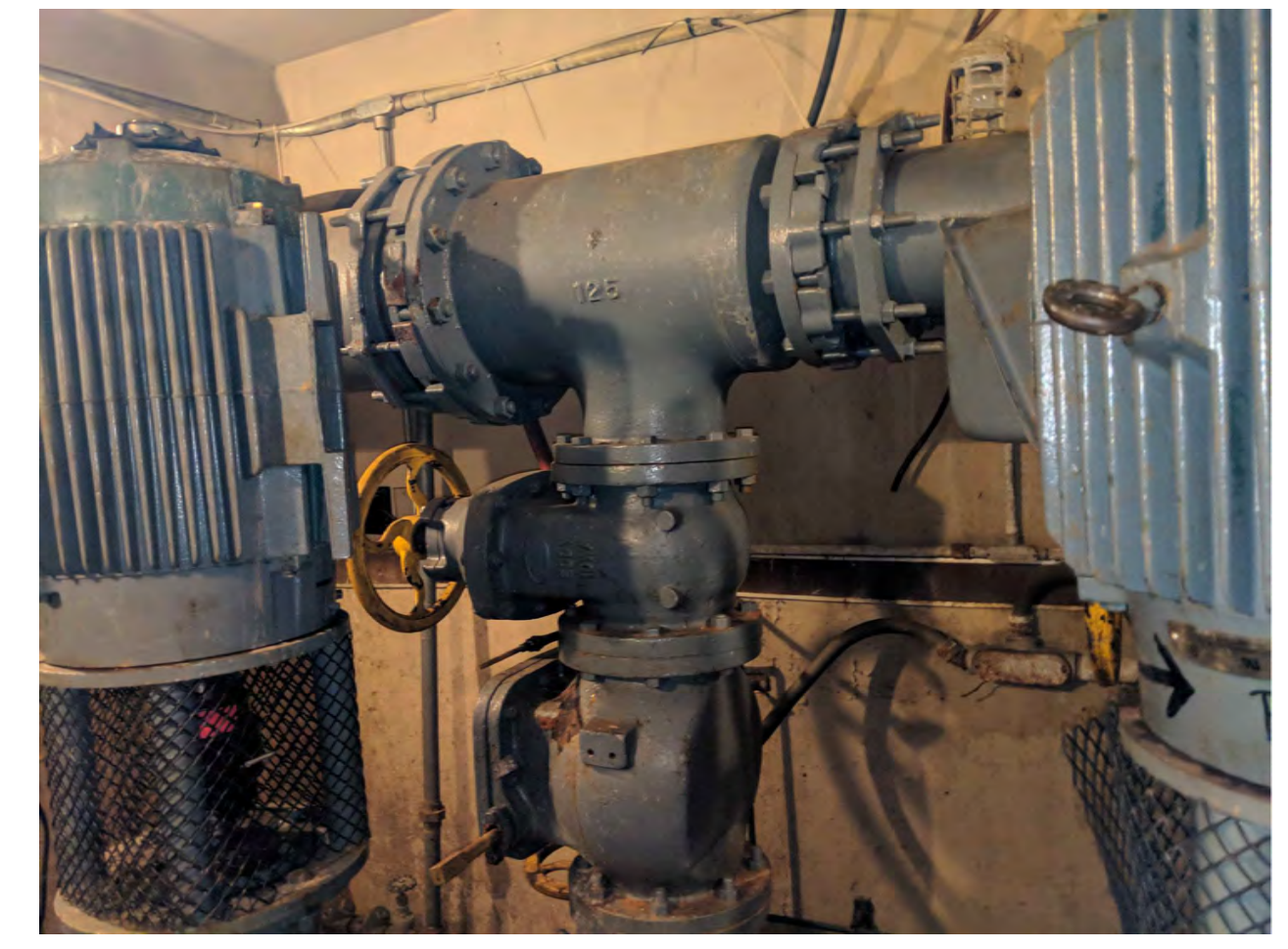
SHEET  
9  
 9 OF 22 SHEETS



L:\7279-00 Oakland Beach (WSA) - Warwick, RI\Map\01-Current\7279-00-Base.dwg 07/23/2024, rlevens 15:21



ACCESS POINT-1 AERIAL VIEW  
SCALE: 1"=10'



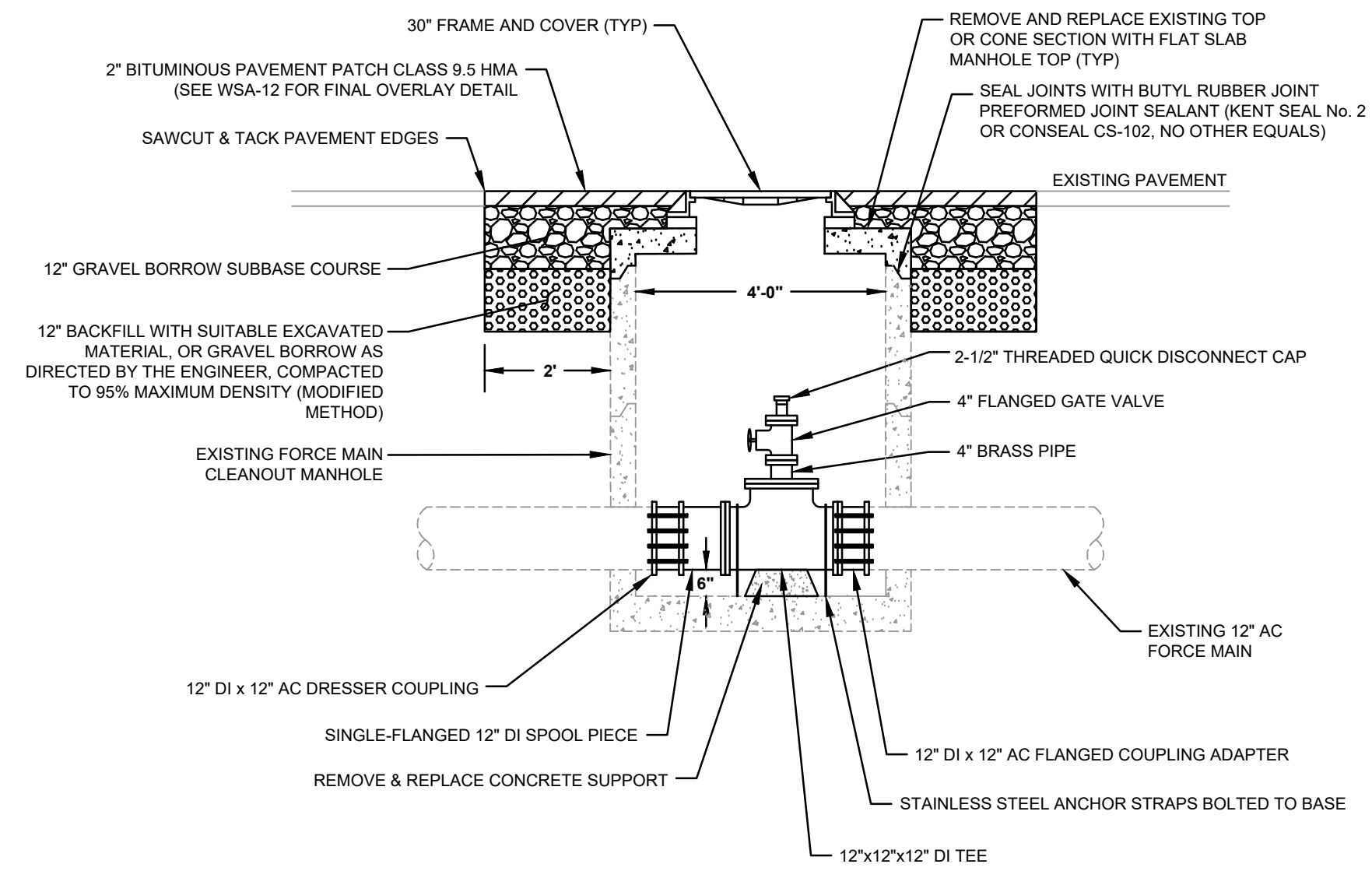
PUMP STATION INTERIOR - EXISTING FORCE MAIN VALVES/FITTINGS



ACCESS POINT-1 INSPECTION PHOTO



PUMP STATION INTERIOR - EXISTING FORCE MAIN OUTLET



ACCESS POINT-1 PROFILE VIEW  
SCALE: NTS

- NOTES:
1. ALL JOINTS SHALL BE TONGUE AND GROOVE WITH BUTYL RUBBER JOINT SEALANT.
  2. ALL LIFTING HOLES OR INDENTS ARE TO BE SEALED WITH NON-SHRINKING (HYDRAULIC CEMENT) GROUT.
  3. INSTALL STAINLESS STEEL ANCHOR STRAPS
  4. IF CONDITION OF EXISTING AC FORCE MAIN IS FOUND BY THE CONTRACTOR TO BE UNSUITABLE FOR THE ABOVE METHOD OF CONNECTION TO DUCTILE IRON PIPING COMPONENTS, THE CONTRACTOR MAY UTILIZE THE ALTERNATIVE METHOD FOR CONNECTION BETWEEN AC AND DI PIPE WITHIN ACCESS POINTS AS DETAILED ON CONSTRUCTION DETAILS-4, WITH APPROVAL OF ENGINEER AND AT NO ADDITIONAL EXPENSE TO OWNER.

ACCESS POINT ENLARGED PLAN-1  
FOR  
OAKLAND BEACH FORCE MAIN  
REHABILITATION  
SITUATED AT  
OAKLAND BEACH  
WARWICK, RI  
PREPARED FOR  
WARWICK SEWER AUTHORITY

NO.	REVISION	BY	DATE

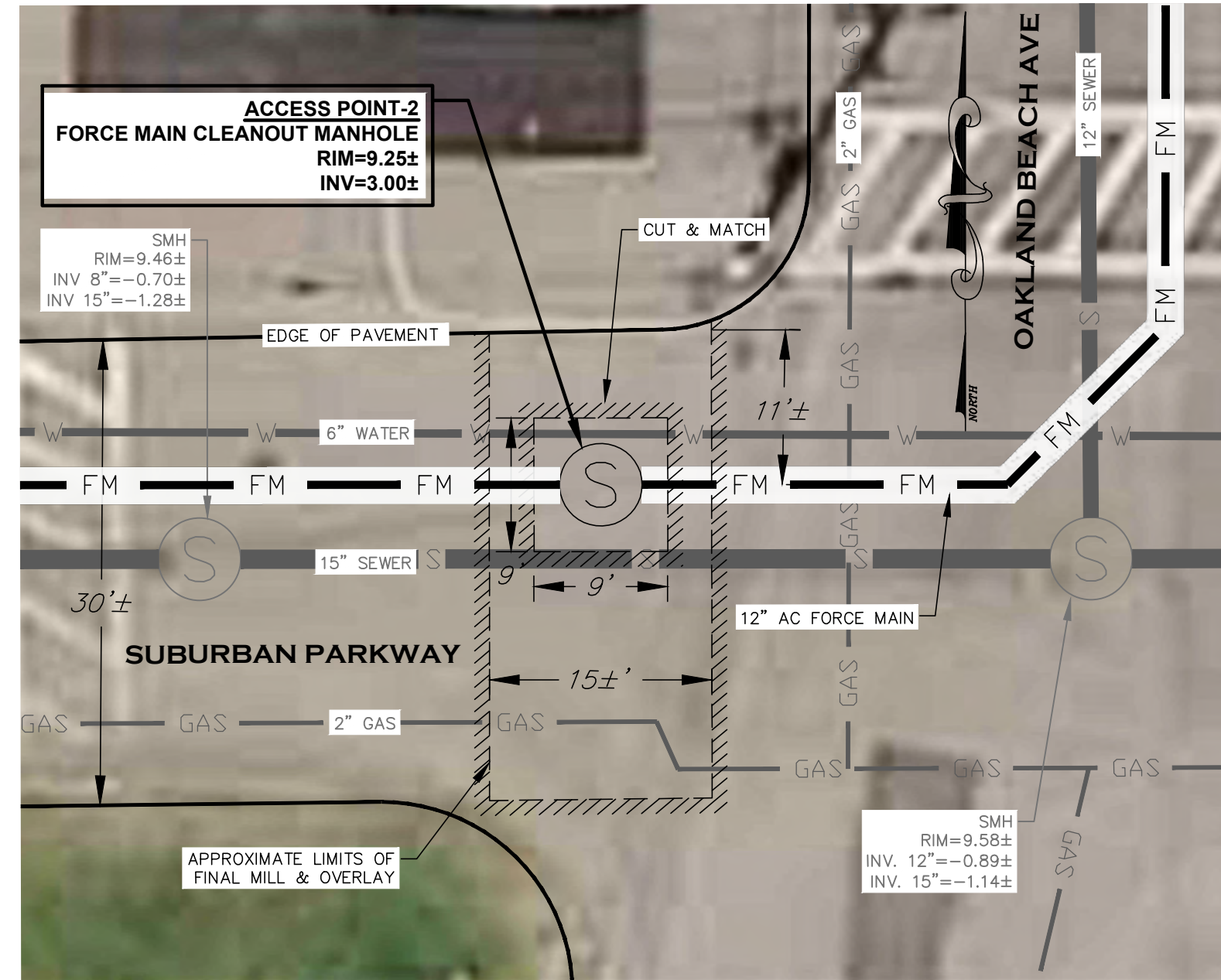
**GAROFALO**  
GAROFALO & ASSOCIATES, INC.  
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS  
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

85 CORLISS STREET  
P.O. BOX 6145  
PROVIDENCE, R.I. 02940  
TEL. 401-273-6000

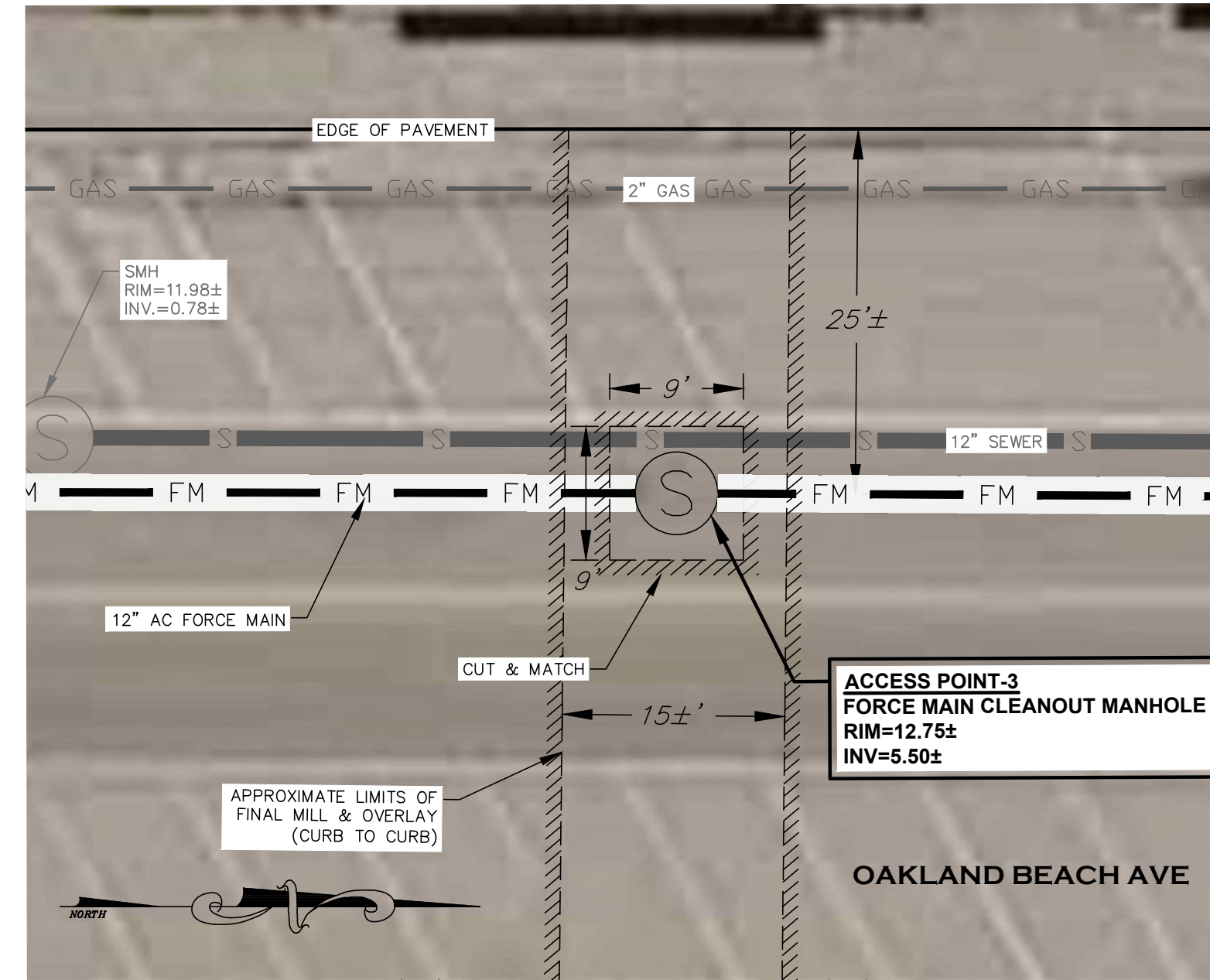
Garofalo & Associates ©  
These drawings are the property of the engineer/surveyor and have been prepared for the specific project at this site and are not to be used for any other purpose, location or owner without written permission of this owner or one of its directors.

JOB NO. 7279-00	DRAWN BY R.A.S.
DWG. NO. 7279-00-Base.dwg	CHECK BY S.S.H.
SCALE: AS SHOWN	APPROVED S.B.G.
DATE: OCTOBER 22, 2021	





**ACCESS POINT-2 AERIAL VIEW**  
SCALE: 1"=10'



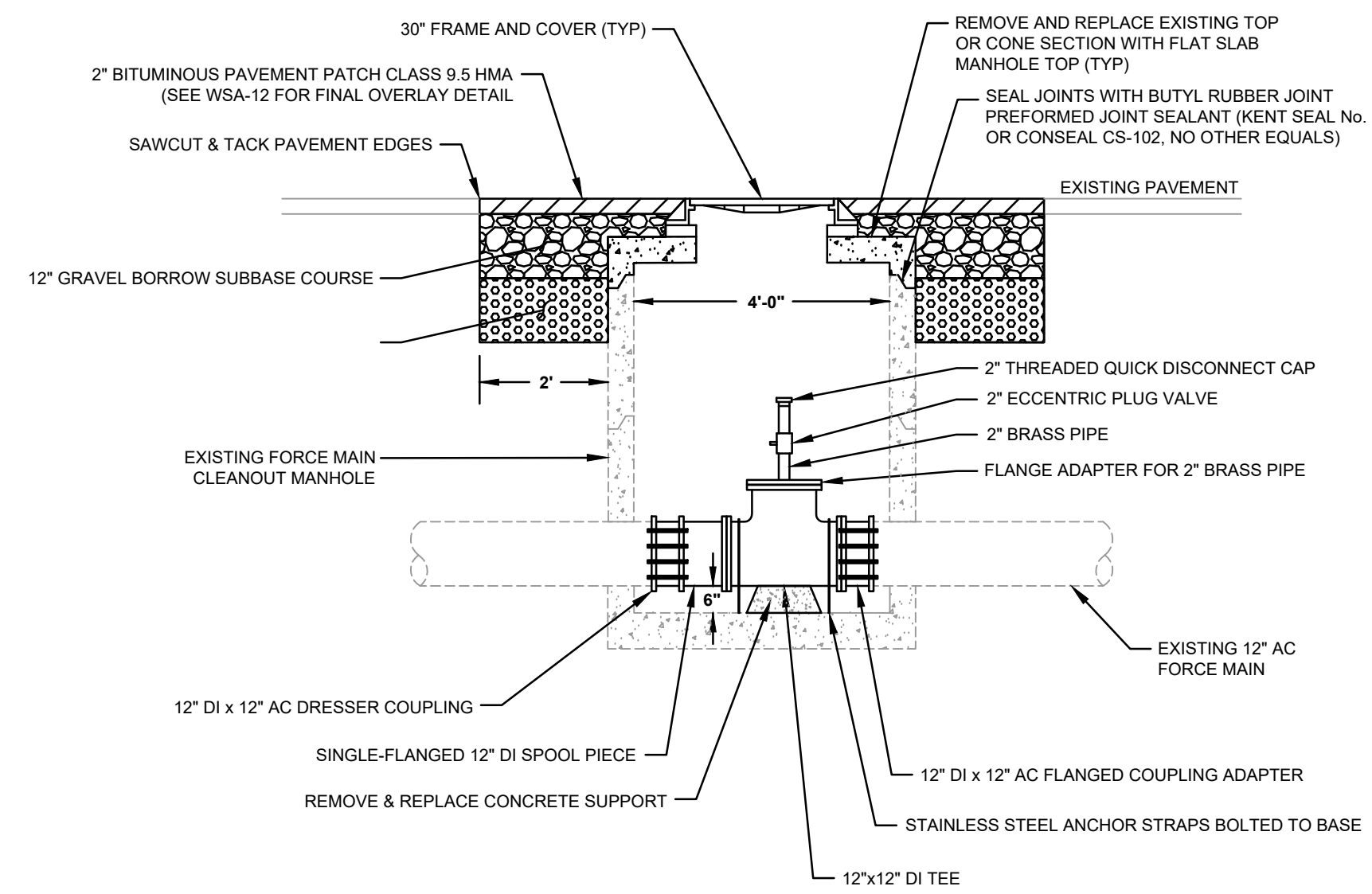
**ACCESS POINT-3 AERIAL VIEW**  
SCALE: 1"=10'



**ACCESS POINT-2 INSPECTION PHOTO**



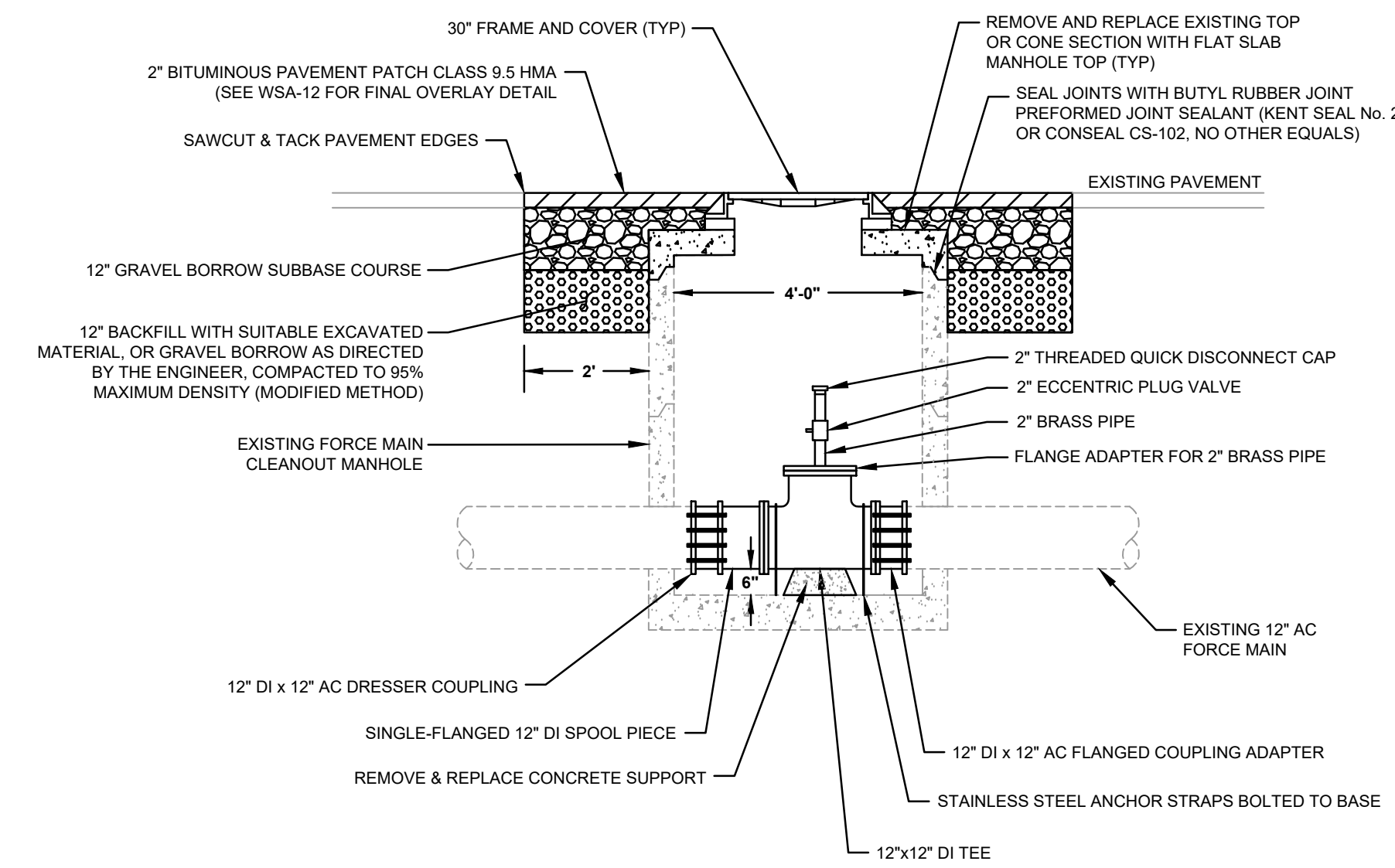
**ACCESS POINT-3 INSPECTION PHOTO**



**ACCESS POINT-2 PROFILE VIEW**  
SCALE: NTS

**NOTES:**

1. ALL JOINTS SHALL BE TONGUE AND GROOVE WITH BUTYL RUBBER JOINT SEALANT.
2. ALL LIFTING HOLES OR INDENTS ARE TO BE SEALED WITH NON-SHRINKING (HYDRAULIC CEMENT) GROUT.
3. INSTALL STAINLESS STEEL ANCHOR STRAPS
4. IF CONDITION OF EXISTING AC FORCE MAIN IS FOUND BY THE CONTRACTOR TO BE UNSUITABLE FOR THE ABOVE METHOD OF CONNECTION TO DUCTILE IRON PIPING COMPONENTS, THE CONTRACTOR MAY UTILIZE THE ALTERNATIVE METHOD FOR CONNECTION BETWEEN AC AND DI PIPE WITHIN ACCESS POINTS AS DETAILED ON CONSTRUCTION DETAILS-4, WITH APPROVAL OF ENGINEER AND AT NO ADDITIONAL EXPENSE TO OWNER.



**ACCESS POINT-3 PROFILE VIEW**  
SCALE: NTS

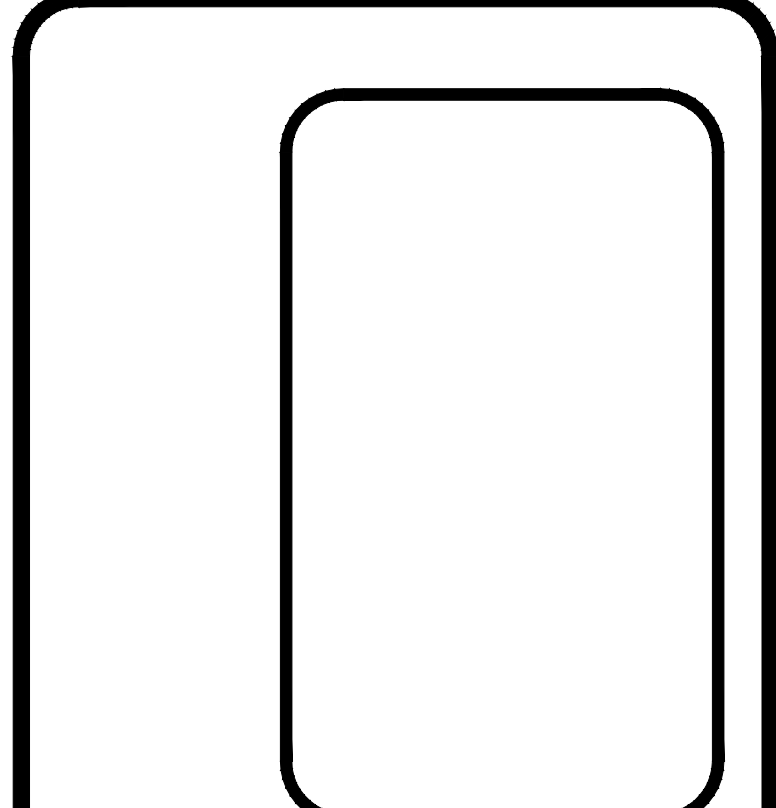
**NOTES:**

1. ALL JOINTS SHALL BE TONGUE AND GROOVE WITH BUTYL RUBBER JOINT SEALANT.
2. ALL LIFTING HOLES OR INDENTS ARE TO BE SEALED WITH NON-SHRINKING (HYDRAULIC CEMENT) GROUT.
3. INSTALL STAINLESS STEEL ANCHOR STRAPS
4. IF CONDITION OF EXISTING AC FORCE MAIN IS FOUND BY THE CONTRACTOR TO BE UNSUITABLE FOR THE ABOVE METHOD OF CONNECTION TO DUCTILE IRON PIPING COMPONENTS, THE CONTRACTOR MAY UTILIZE THE ALTERNATIVE METHOD FOR CONNECTION BETWEEN AC AND DI PIPE WITHIN ACCESS POINTS AS DETAILED ON CONSTRUCTION DETAILS-4, WITH APPROVAL OF ENGINEER AND AT NO ADDITIONAL EXPENSE TO OWNER.

L:\7279-00 Oakland Beach (WSA) - Warwick, RI\tag\01-Current\7279-00-Base.dwg 07/23/2024, revisions 15:22

ACCESS POINT ENLARGED PLAN-2  
FOR  
OAKLAND BEACH FORCE MAIN  
REHABILITATION  
SITUATED AT  
OAKLAND BEACH  
WARWICK, RI  
PREPARED FOR  
WARWICK SEWER AUTHORITY

NO.	REVISION	BY	DATE



**GAROFALO**  
GAROFALO & ASSOCIATES, INC.  
CIVIL & STRUCTURAL ENGINEERS/SURVEYORS  
LAND PLANNERS/ENVIRONMENTAL SCIENTISTS

Garofalo & Associates ©  
These drawings are the property of the engineer/surveyor and have been prepared for the specific project at this site and are not to be used for any other purpose, location or owner without written permission of this owner or one of its directors.

85 CORLISS STREET  
P.O. BOX 6145  
PROVIDENCE, RI 02940  
TEL. 401-273-6000

JOB NO. 7279-00	DRAWN BY R.A.S.
DWG. NO. 7279-00-Base.dwg	CHECK BY S.S.H.
SCALE: AS SHOWN	APPROVED S.B.G.
	DATE: OCTOBER 22, 2021

SHEET

11