



Worcester County Administration Office
1 West Market Street, Room 1103
Snow Hill, MD 21863
Ph. 410-632-1194 Fax 410-632-3131
Email: nrice@co.worcester.md.us

Addendum # 1 Riddle Farm Force Main Bypass Design

Date of Addendum: 1/26/24

NOTICE TO ALL BIDDERS AND PLANHOLDERS

The Proposal Documents for the above-referenced Project are modified as set forth in this Addendum. The original Proposal Documents and any previously issued addenda remain in full force and effect, except as modified by this Addendum, which is hereby made part of the Proposal Documents. Vendors will take this Addendum into consideration when preparing and submitting a Proposal and shall acknowledge receipt of this Addendum in the space provided in the Proposal Documents.

PROPOSAL SUBMITTAL DEADLINE

The Proposal submittal time has not been changed.

1.0 – QUESTIONS AND ANSWERS

The following questions and answers are provided as a matter of information to clarify issues raised about the Proposal Documents.

Item	Questions and Answers
1.1	<p>Q. Can the County confirm the end points (either street address or coordinates) for the proposed alignment? The Riddle Farm WWTP is located at approximately (38.344651N, -75.160135E). Is the connection to the Ocean Pines Sanitary Service Area at the Worcester County Wastewater Office, 1000 Shore Lane, Berlin, MD 21811?</p> <p>A. It starts at the Riddle WWTP and connects to the Ocean Pines sewer system. Where in Ocean Pines, is what the County is asking the Successful Vendor to determine.</p>
1.2	<p>Q. Can the County provide a design flow rate, capacity, and/or pipe diameter to be used for the proposal and design?</p> <p>A. The County does not know the flowrate, capacity, or pipe diameter. All of that will depend on what the Successful Vendor designs.</p>

END OF ADDENDUM



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Email: nrice@co.worcester.md.us

Addendum # 2 Riddle Farm Force Main Bypass Design

Date of Addendum: 2/14/24

NOTICE TO ALL BIDDERS AND PLANHOLDERS

The Proposal Documents for the above-referenced Project are modified as set forth in this Addendum. The original Proposal Documents and any previously issued addenda remain in full force and effect, except as modified by this Addendum, which is hereby made part of the Proposal Documents. Vendors will take this Addendum into consideration when preparing and submitting a Proposal and shall acknowledge receipt of this Addendum in the space provided in the Proposal Documents.

PROPOSAL SUBMITTAL DEADLINE

The Proposal submittal time has been extended from 2:30pm on Wednesday, February 21, 2024 to 2:30pm on Wednesday, February 28, 2024.

1.0 – ATTACHMENTS

Item	Description
1.1	Worcester County DPW – GIS Sanitary Sewer Service Lines for the Ocean Pines & Riddle Farm Service Areas
1.2	Ocean Downs Force Main to Gum Point Rd
1.3	Ocean Pines General Service Area Lift Station locations
1.4	Ocean Pines Pump Station N
1.5	Riddle Farm WWTP Upgrades
1.6	South Ocean Pines Pump Station T Force Main As built

2.0 – QUESTIONS AND ANSWERS

The following questions and answers are provided as a matter of information to clarify issues raised about the Proposal Documents.

Item	Questions and Answers
2.1	Q. Can the County make available the Ocean Downs Interconnect, Riddle Farm WWTP plans, Pump Station T/Force main, and the Pump Station N/Force main plans for the proposal response preparation? A. All available drawings have been scanned and provided.
2.2	Q. Can the County provide clarification that the installation of a pumping station or upgrades to existing pumping equipment at the Riddle Farm WWTP shall be included in the scope of this project? A. The successful bidder will be responsible for evaluating the existing station capacity with the proposed path and if it requires any upgrades to specify those upgrades as part of the design.
2.3	Q. Can the County please provide the information regarding the existing collection system, existing utility easements, Pump Station T, and Riddle Farm WWTP that were referenced in the preproposal meeting? A. All available drawings have been scanned and provided. The successful bidder will be provided a copy for use of our existing GIS file.

END OF ADDENDUM



Department of Development Review & Permitting
Technical Services Division - February 2024

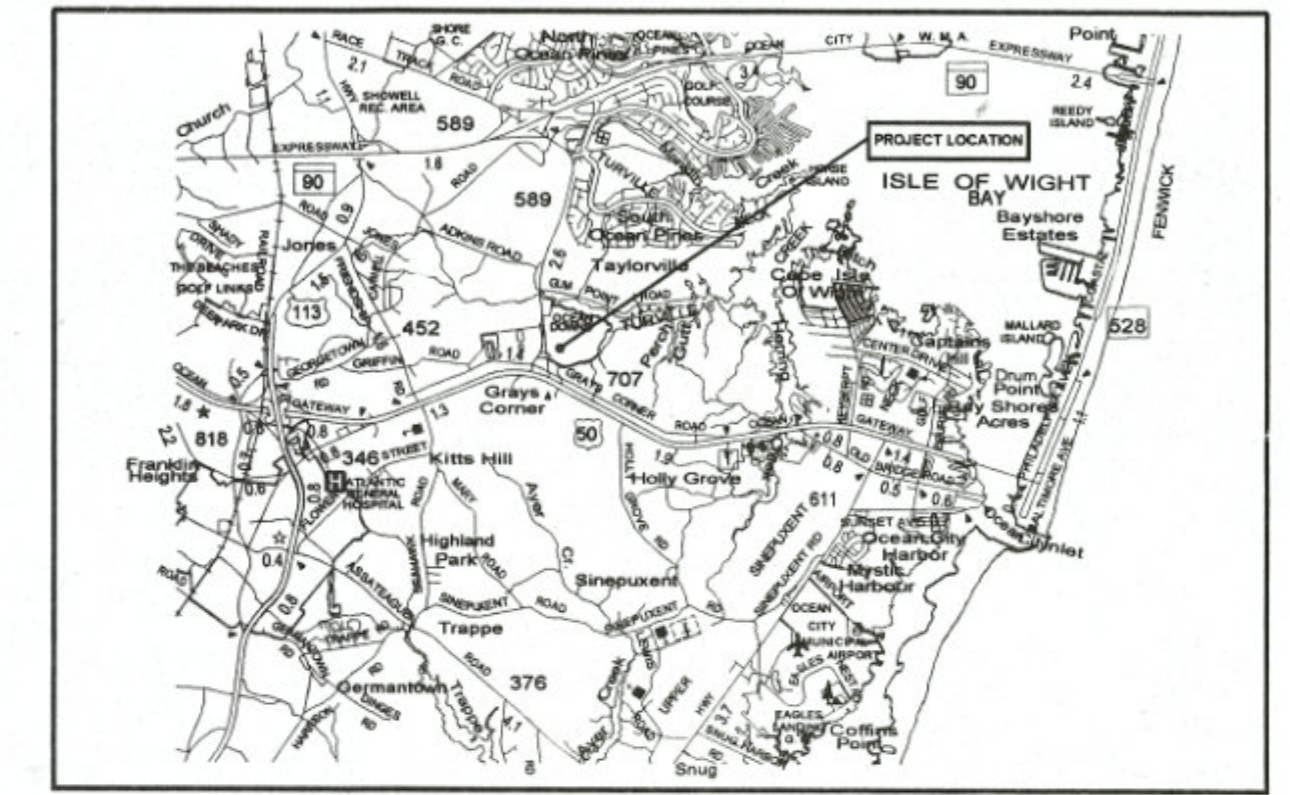


0 0.2 0.4 0.8 Miles

VTA, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA

OCEAN DOWNS VLT AND RACETRACK PUBLIC SEWER EXTENSION

THIRD TAX DISTRICT BERLIN WORCESTER COUNTY MARYLAND



VICINITY MAP
SCALE: 1" = 1.5 MILE

GENERAL NOTES :

- ALL WORK REQUIRED BY THESE DOCUMENTS (DRAWINGS AND SPECIFICATIONS) SHALL BE NEW. WHEREVER THE WORD "PROPOSED" IS USED IT IS CONSIDERED INTERCHANGEABLE WITH THE WORD "NEW" AND IS INCLUDED IN THE REQUIRED WORK.
- ALL ELEVATIONS, TOPOGRAPHY AND ALIGNMENTS SHOWN ARE BASED UPON THE SEWER PLAT EASEMENT BY SOULE & ASSOCIATES, P.C. DATED NOVEMBER 2011 SUPPLEMENTED BY FIELD WORK FOR TOPOGRAPHY, PERFORMED ON JANUARY 2012. THE BOUNDARY LINES SHOWN FOR TAX MAP 21, PARCEL 99 ARE BASED UPON A SURVEY PLAT PREPARED BY J.W. SALM ENGINEERING, INC., DATED JAN. 2012, AND OCEAN DOWNS ON-SITE SYSTEM REPAIR CONSTRUCTION DRAWINGS PREPARED BY J.W. SALM ENGINEERING, INC., DATED FEBRUARY 2001. THE ENGINEER DOES NOT WARRANT THAT INFORMATION PROVIDED BY OTHERS IS ENTIRELY CORRECT. THE CONTRACTOR SHALL EXAMINE A COPY OF SAID PLANS AND VISIT THE SITE IN ORDER TO DETERMINE, TO HIS SATISFACTION, THE QUANTITIES OF WORK REQUIRED TO BE PERFORMED. AS-BUILT INFORMATION HAS BEEN PROVIDED BY THE SURVEYOR: FRANK G. LYNCH, JR. AND ASSOCIATES, INC. AND THE FIELD INSPECTOR: E. DENNIS ESCHER, P.E.. JWSE DOES NOT WARRANT THAT AS-BUILT INFORMATION PROVIDED BY OTHERS IS ENTIRELY CORRECT.
- UNLESS OTHERWISE NOTED, ALL ELEVATIONS FOR GRAVITY STORM DRAIN AND GRAVITY SANITARY SEWER PIPES ARE INVERTS AND ALL ELEVATIONS FOR PRESSURE WATER MAINS AND FORCE MAINS ARE TOP OF PIPE ELEVATIONS.
- THESE DRAWINGS SHOW INFORMATION REGARDING UNDERGROUND UTILITIES WHICH EXIST ALONG THE LINES OF WORK. THE LOCATION OF UTILITIES SHOWN HAS BEEN PROVIDED FROM THE BEST AVAILABLE RECORDS AND SHALL BE VERIFIED BY THE CONTRACTOR TO HIS SATISFACTION PRIOR TO CONSTRUCTION. THE OWNER SHALL BE GIVEN NOTIFICATION BY THE CONTRACTOR PRIOR TO TEST FITTING. THE OWNER AND ENGINEER DISCLAIM ANY RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF SAID INFORMATION. IF THE CONTRACTOR RELIES ON SAID INFORMATION HE DOES SO AT HIS OWN RISK. THE GIVING OF THE INFORMATION ON THESE DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF HIS OBLIGATIONS TO SUPPORT AND PROTECT ALL EXISTING UTILITIES AND APPURTENANCES. SHOULD ANY EXISTING UTILITIES BE DAMAGED BY THE CONTRACTOR, THE CONTRACTOR SHALL REPAIR THE DAMAGE CAUSED, TO THE UTILITY OWNERS SATISFACTION, AT THE CONTRACTOR'S EXPENSE.
- ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO THESE DRAWINGS AND SPECIFICATIONS, AND TO ALL APPLICABLE REQUIREMENTS OF WORCESTER COUNTY, WORCESTER COUNTY WATER AND WASTEWATER SERVICES, WORCESTER COUNTY ROADS, MARYLAND STATE HIGHWAY DEPARTMENT AND MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- ALL DISTURBED AREAS SHALL BE SMOOTHLY GRADED TO PROVIDE POSITIVE DRAINAGE, AWAY FROM PROPOSED STRUCTURES, AND SHALL BE STABILIZED WITH TOPSOIL, SEED AND MULCH, EXCEPT IN AREAS CALLING FOR PAVING OR SIDEWALKS. IF SETTLEMENT OCCURS, THE AREA OF SETTLEMENT SHALL BE RESTORED TO GRADE, RESEEDED AND REMULCHED TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL PROVIDE SEED TYPE AS SPECIFIED.
- THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY DEVIATIONS FROM THESE DRAWINGS AND SPECIFICATIONS.
- THE OWNER SHALL PROVIDE NECESSARY STAKE OUT OF LINE AND GRADE FOR CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE HYDROSTATIC TESTING OF ALL PRESSURE PIPES IN THE PRESENCE OF THE ENGINEER. FORTY EIGHT HOURS NOTICE SHALL BE GIVEN TO THE ENGINEER PRIOR TO THE CONTRACTOR PERFORMING ANY TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL REQUIREMENTS OF THIS TESTING. SHOULD ANY PORTION OF THE WORK FAIL TO MEET THE CRITERIA, THE CONTRACTOR SHALL TAKE CORRECTIVE MEASURES, AT HIS OWN EXPENSE, TO CONFORM TO THE TEST REQUIREMENTS.
- THE OWNER RESERVES THE RIGHT TO AWARD OTHER CONTRACTS OR PERFORM OTHER WORK IN THE VICINITY OF WORK DESIGNATED ON THESE DRAWINGS. THE CONTRACTOR SHALL COOPERATE WITH AND COORDINATE HIS OPERATIONS WITH OTHER CONTRACTORS OR WORKMEN EMPLOYED BY THE OWNER.
- NO INFORMATION REGARDING DEPTH TO ANY TEMPORARY OR PERMANENT GROUND WATER TABLE IS PROVIDED ON THESE DRAWINGS. THE CONTRACTOR SHALL INVESTIGATE TO HIS SATISFACTION THE SITE CONDITIONS REGARDING THE DEPTH TO GROUND WATER. GENERALLY, PIPING, TRENCH AND STRUCTURE CONSTRUCTION SHALL BE PROSECUTED IN A DEWATERED STATE, CONSISTENT WITH GOOD CONSTRUCTION PRACTICES. ALL EXCAVATIONS FOR MANHOLES AND OTHER CHAMBERS SHALL BE CONTINUALLY DEWATERED UNTIL THE BACKFILL OPERATION HAS BEEN COMPLETED. THE CONTRACTOR SHALL COORDINATE WITH THE PROPERTY OWNERS FOR TEST FITTING.
- IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO MENTION SPECIFICALLY ANY WORK WHICH WOULD NORMALLY BE REQUIRED TO COMPLETE THE PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH WORK.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING, TWO (2) DAYS PRIOR TO BEGINNING ANY WORK SHOWN ON THESE DRAWINGS.

A) RICKMAN CONSTRUCTION, LLC	(301) 840-2011
B) MISS UTILITY	(800) 441-8365
C) J. W. SALM ENGINEERING, INC.	(410) 641-0126
D) WORCESTER COUNTY, DPW	(410) 841-5251
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS RESULTING FROM ANY EARTH MOVING AND/OR TEMPORARY STOCKPILING OF EARTH OR OTHER MATERIALS ON SITE.
- THESE DRAWINGS, THE DESIGN AND CONSTRUCTION FEATURES DISCLOSED ARE PROPRIETARY TO J.W. SALM ENGINEERING, INC. AND SHALL NOT BE ALTERED OR REUSED WITHOUT WRITTEN PERMISSION. COPYRIGHT, LATEST DATE HEREON. ANY DRAWING, REPRODUCTION, PLOT, ETC., WITHOUT A WET INK SIGNATURE AND SEAL IS NOT CERTIFIED BY J.W. SALM ENGINEERING AS TO ACCURACY AND AUTHENTICITY.
- SUBGRADE COMPACTION FOR ALL AREAS UNDER PROPOSED PAVINGS, GRAVEL SURFACING AND CURBS SHALL BE 95% MODIFIED PROCTOR DENSITY AT 4% OPTIMUM MOISTURE CONTENT.
- A MARYLAND DEPARTMENT OF THE ENVIRONMENT NOTICE OF INTENT (NOI) GENERAL PERMIT FOR CONSTRUCTION ACTIVITY IS REQUIRED FOR ALL CONSTRUCTION ACTIVITY IN MARYLAND WITH A PLANNED TOTAL DISTURBANCE OF 1 ACRE OR MORE.

LEGEND:

EXISTING FEATURES	PROPOSED FEATURES
CONTOUR	UTILITY EASEMENT
WETLAND BUFFER	FORCE MAIN, ARV MANHOLE, VALVE
NON-TIDAL WETLAND	
EDGE OF PAVEMENT	
ROAD RIGHT OF WAY	
STORM DRAIN	
LOT LINE	
PARCEL LINE	
SHORELINE	
TREE LINE	
FORCE MAIN LINE	
WATER LINE	
GAS LINE	
ELECTRIC LINE	
WATER METER	
ELECTRICAL PEDESTAL	
TELEPHONE PEDESTAL	
CABLE PEDESTAL	
SANITARY SEWER LIFT STATION	
ELECTRIC TRANSFORMER	
SANITARY SEWER CLEAN-OUT	
WATER VALVE BOX	
SIGN	
TO BE ABANDONED (IN PLACE)	

FUTURE FEATURES (STEEN SUBDIVISION)

INDEX OF DRAWINGS:

DRAWING No.:	SHEET No.:	TITLE
231-03-001	1 of 13	COVER SHEET, NOTES, INDEX AND VICINITY MAP
231-03-002	2 of 13	FORCE MAIN PLAN
231-03-003	3 of 13	FORCE MAIN PLAN
231-03-004	4 of 13	FORCE MAIN PLAN
231-03-005	5 of 13	FORCE MAIN PLAN
231-03-006	6 of 13	FORCE MAIN PROFILES
231-03-007	7 of 13	FORCE MAIN PROFILES
231-03-008	8 of 13	PUMP STATION SITE PLAN
231-03-009	9 of 13	PUMP STATION PLAN & SECTION
231-03-010	10 of 13	SUBMITTAL SCHEDULE AND DETAILS
231-03-010A	10A of 13	SOIL EROSION AND SEDIMENT CONTROL (SESC) DETAILS
E1	11 of 13	ELECTRICAL PLANS
E2	12 of 13	ELECTRICAL DETAILS
E3	13 of 13	PUMP CONTROL SCHEMATIC

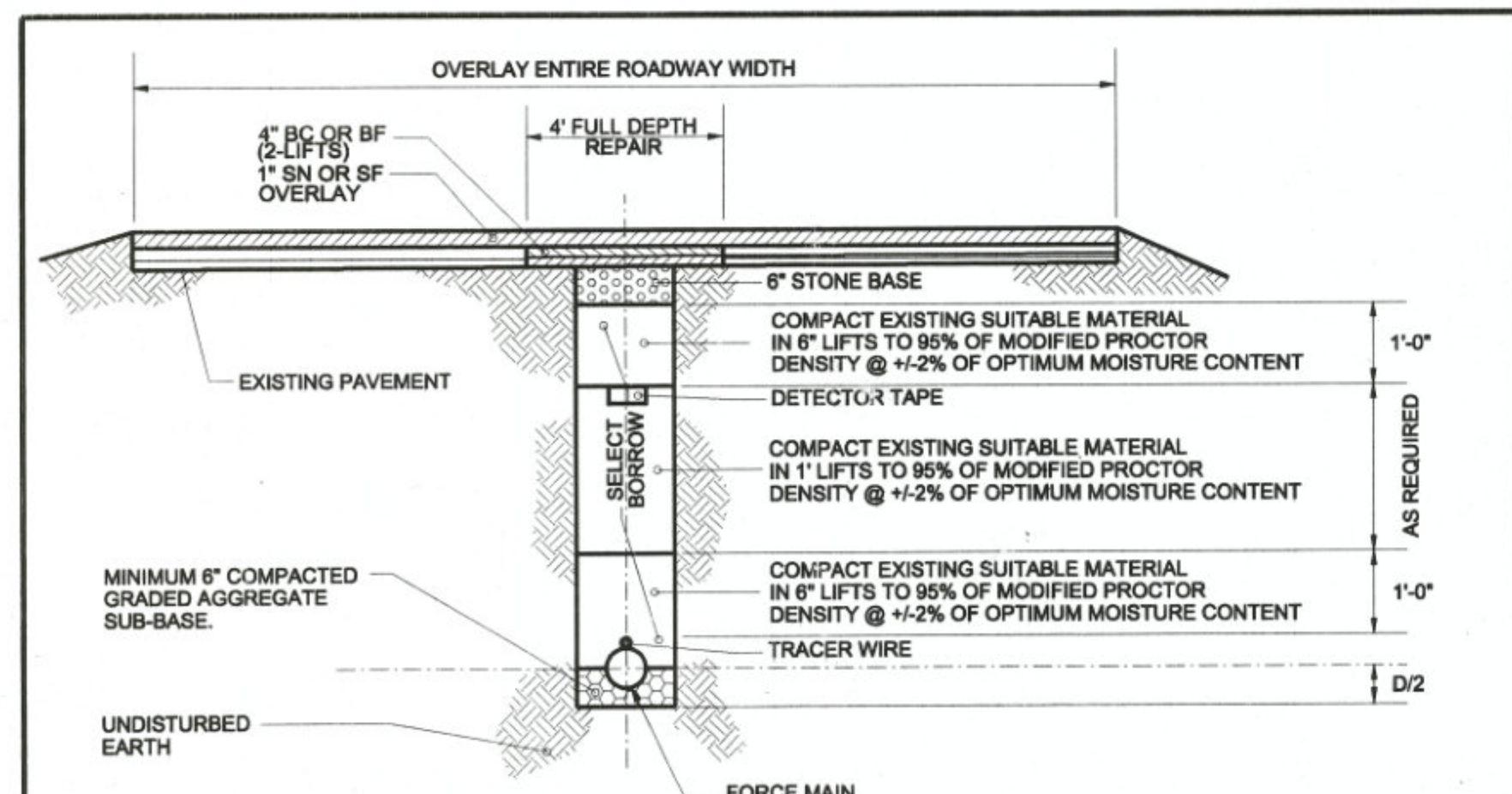
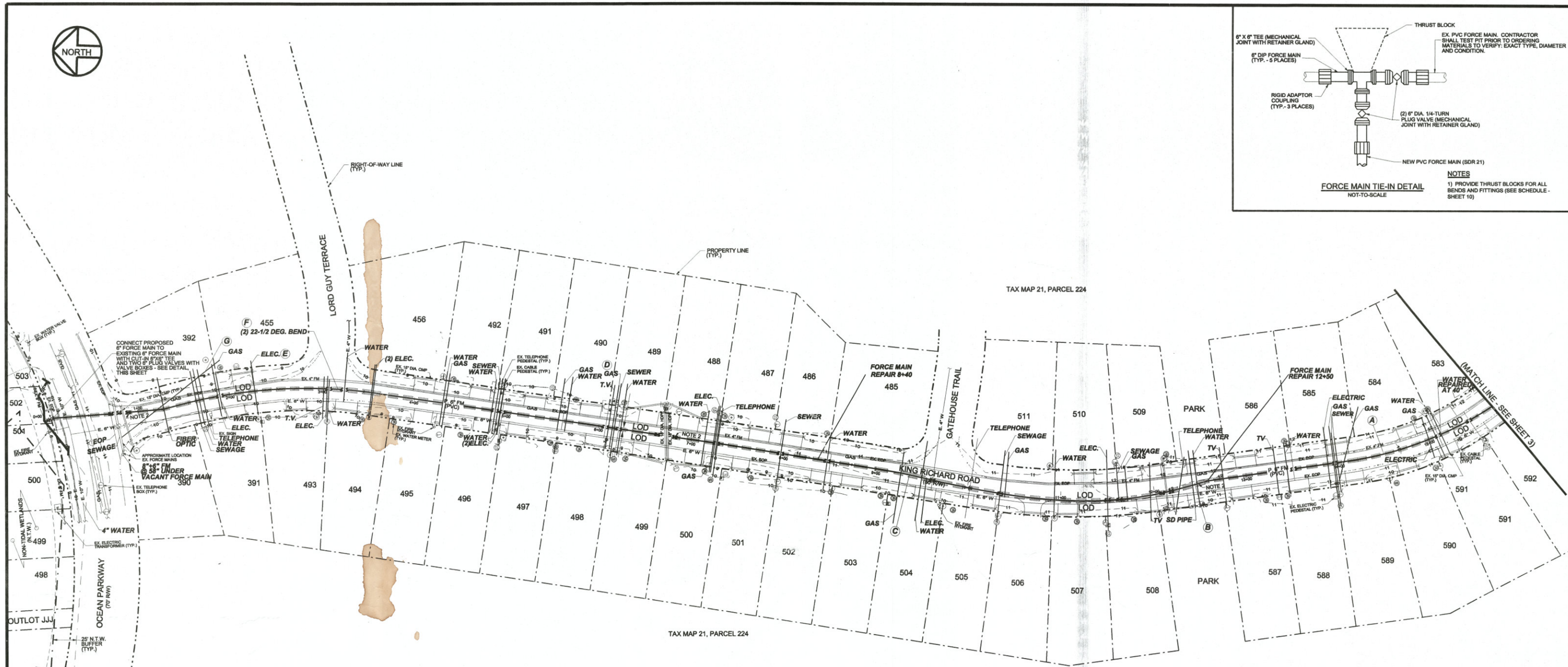
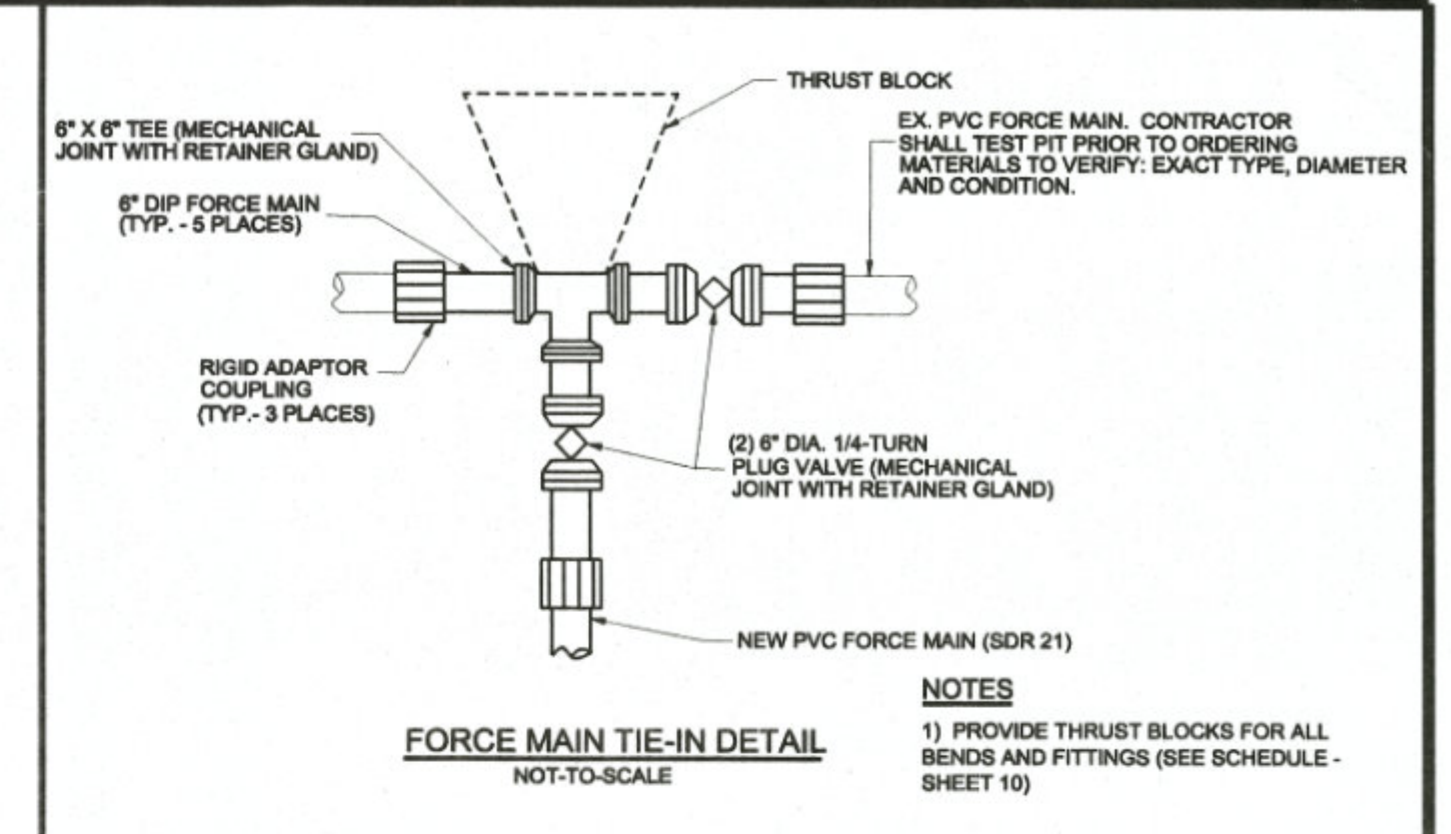
FORCE MAIN AS-BUILTS - JULY 2014

OWNER:
OCEAN ENTERPRISE 589 LLC
15215 SHADY GROVE ROAD
ROCKVILLE, MD 20850-3235
PHONE : 301.840.2011

APPLICANT / DEVELOPER:
RICKMAN CONSTRUCTION, LLC
15215 SHADY GROVE RD.
ROCKVILLE, MD 20850-3235
PHONE : 301.840.2011

ENGINEER/SURVEYOR/DESIGNER:
J. W. SALM ENGINEERING, INC.
P.O. BOX 397, 9842 MAIN STREET, SUITE 3
BERLIN, MD 21811
PHONE : 410.641.0126

THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY WATER AND WASTEWATER SERVICES		DESIGNED BY: LCS	DRAWN BY: MG	CHECKED BY: JWS3	COVER SHEET, NOTES, INDEX AND VICINITY MAP OCEAN DOWNS VLT AND RACETRACK PUBLIC SEWER EXTENSION TENTH TAX DISTRICT BERLIN WORCESTER COUNTY MARYLAND J. W. SALM ENGINEERING, INC. P.O. BOX 397, 9842 MAIN STREET, SUITE 3 BERLIN, MD 21811
DIRECTOR WO. CO., WATER & WASTEWATER SERVICES		REVISIONS			
THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY DEPARTMENT OF PUBLIC WORKS.		MARYLAND PROFESSIONAL ENGINEER LICENSE No.: 10731			SCALE: 1" = 50'
DIRECTOR WO. CO., DEPARTMENT OF PUBLIC WORKS		DATE: AUG. 2012			DRAWING No.: 231-03-001
		SHEET No.:			1 of 13



- NOTES:**
- 1) PAVEMENT REPAIR SHALL BE PERFORMED TO THE SATISFACTION OF WORCESTER COUNTY AND THE ENGINEER.
 - 2) CONTRACTOR SHALL MEET ON-SITE WITH WORCESTER COUNTY DEPARTMENT OF PUBLIC WORKS, ROADS DIVISION AND OCEAN PINES AND THE ENGINEER PRIOR TO PERFORMING ANY WORK ON OCEAN PINES ROADS.
 - 3) ALL BACKFILL AND COMPACTION SHALL BE PERFORMED ONLY IN THE PRESENCE OF THE ENGINEER OR A REPRESENTATIVE OF THE WORCESTER COUNTY DEPARTMENT OF PUBLIC WORKS, ROADS DIVISION.

PAVEMENT REPAIR AND OVERLAY DETAIL - KING RICHARD ROAD
NOT TO SCALE



- (A) INACTIVE SEWAGE LINE @ 14+55
- (B) TWO 45 DEG. BENDS UNDER STORM DRAIN
- (C) 7200, ELECTRIC LINE > 48", NOT LOCATED
- (D) INACTIVE GAS LINE @ 6+23 BETWEEN WATER AND SEWAGE @ 36" DEPTH
- (E) ELECTRIC DEEPER THAN 50"
- (F) USE (2) 22-1/2 DEG BENDS TO CORRECT FM DIRECTION. PLACED TWO (2) 60# BAGS SAKRETE BEHIND EACH BEND
- (G) 10" GAS MAIN

- NOTES:**
1. IN GENERAL, FORCE MAIN ALIGNMENT SHALL HAVE A MINIMUM 10' HORIZONTAL SEPARATION FROM WATER MAINS EXCEPT WHERE CROSSINGS ARE SHOWN ON THIS DRAWING. PROVIDE ALL TEES, HORIZONTAL AND VERTICAL BENDS AND OTHER FITTINGS AS REQUIRED, FOR PROPER ALIGNMENT. PIPE DEFLECTIONS SHALL STRICTLY CONFORM TO THE PIPE MANUFACTURER'S REQUIREMENTS. PROVIDE PLUG VALVES OF THE SAME DIAMETER AS THE FORCE MAIN, WHERE SHOWN, UNLESS LABELED OTHERWISE.
 2. PROVIDE VERTICAL BENDS TO ROUTE FORCE MAIN UNDER STORM DRAINS, GAS, WATER AND OTHER FORCE MAINS. SEE DETAIL, SHEET 6.
 3. SEWER FORCE MAIN SHALL BE PVC, SDR-21 BELL AND SPIGOT, PUSH-ON JOINTS. UNLESS OTHERWISE NOTED IN THE DETAILS, FITTINGS FOR PVC FORCE MAIN SHALL BE SCH 40, SOLVENT-WELDED WITH THRUST BLOCK. ONLY WHERE NOTED FOR SUBAQUEOUS CROSSINGS, SEWER FORCE MAIN SHALL BE HDPE CLASS 160, DR 11.0, BUTT FUSION WELDED JOINTS AND FITTINGS. PROVIDE THRUST BLOCK AND/OR THRUST RESTRAINT AT ALL BENDS AND FITTINGS.
 4. PVC FORCE MAIN SHALL BE INSTALLED BY OPEN-CUT METHODS, HDPE FORCE MAIN SHALL BE INSTALLED BY HORIZONTAL DIRECTIONAL BORING METHODS.
 5. UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE THE APPROXIMATE LOCATION ONLY AT UNKNOWN DEPTHS. SEE GENERAL NOTE 4, SHEET 1.

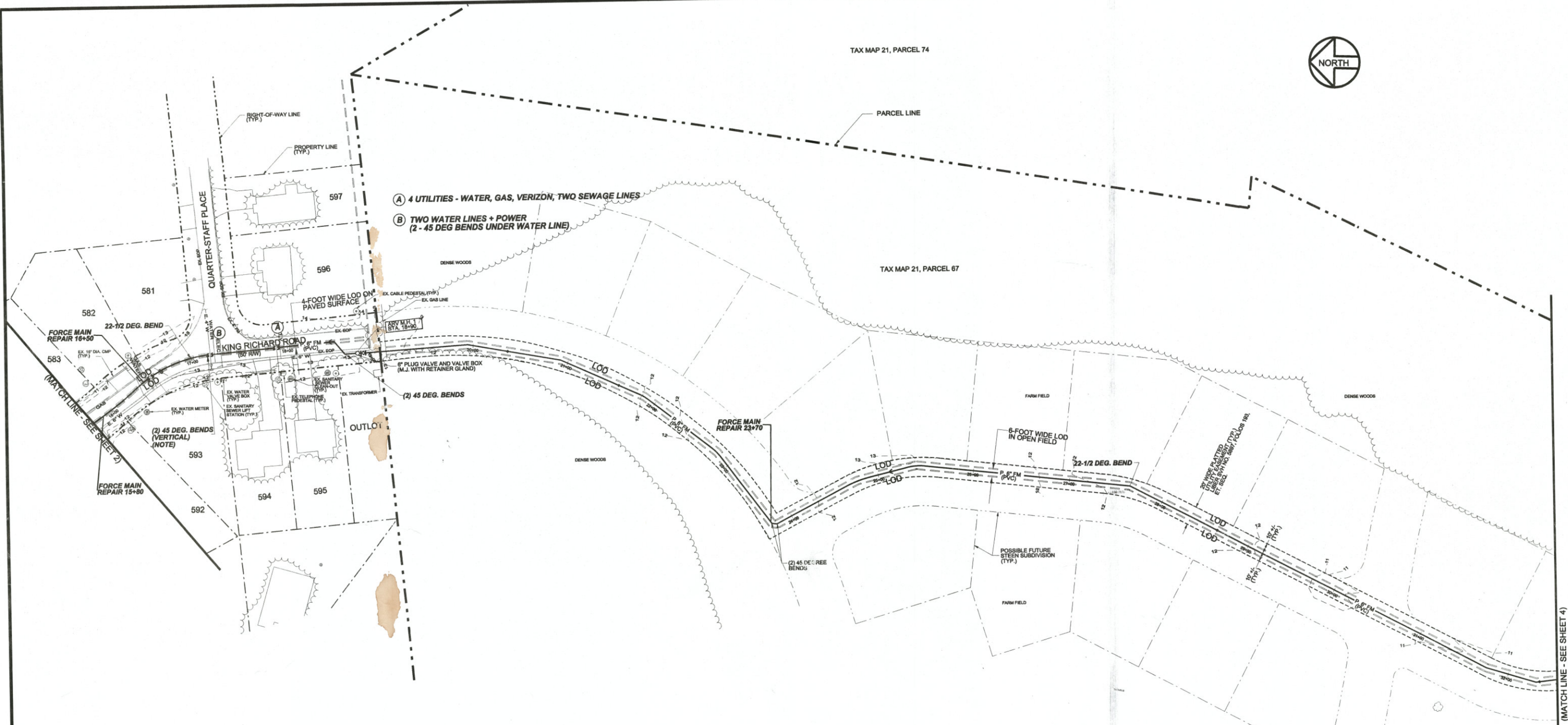
STANDARD SESC SYMBOLS / LEGEND



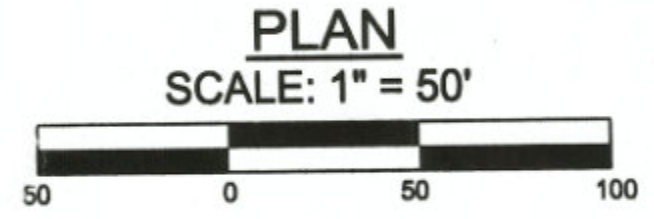
FORCE MAIN AS-BUILTS - JULY 2014

THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY WATER AND WASTEWATER SERVICES		DESIGNED BY: LCS		DRAWN BY: MG		CHECKED BY: JWS3		FORCE MAIN PLAN			
DIRECTOR WO. CO., WATER & WASTEWATER SERVICES		JOHN W. SALM, III		REVISIONS				OCEAN DOWNS VLT AND RACETRACK PUBLIC SEWER EXTENSION			
THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY DEPARTMENT OF PUBLIC WORKS.		MARYLAND PROFESSIONAL ENGINEER LICENSE No.: 19731		SCALE: 1" = 50'		DATE: AUG. 2012		DRAWING No.: 231-03-002		SHEET No.: 2 of 13	
DIRECTOR WO. CO., DEPARTMENT OF PUBLIC WORKS		MARYLAND PROFESSIONAL ENGINEER LICENSE No.: 19731									

TAX MAP 21, PARCEL 74



NOTE:
160# OF SAKRETE USED AS A THRUST BLOCK
AT BEND BETWEEN 17+00 AND 17+15.



STANDARD SESC SYMBOLS / LEGEND

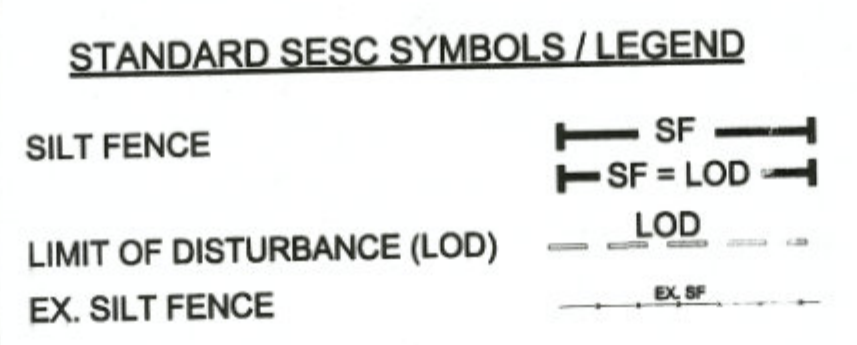
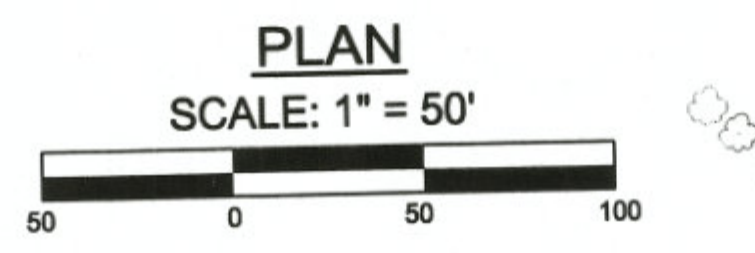
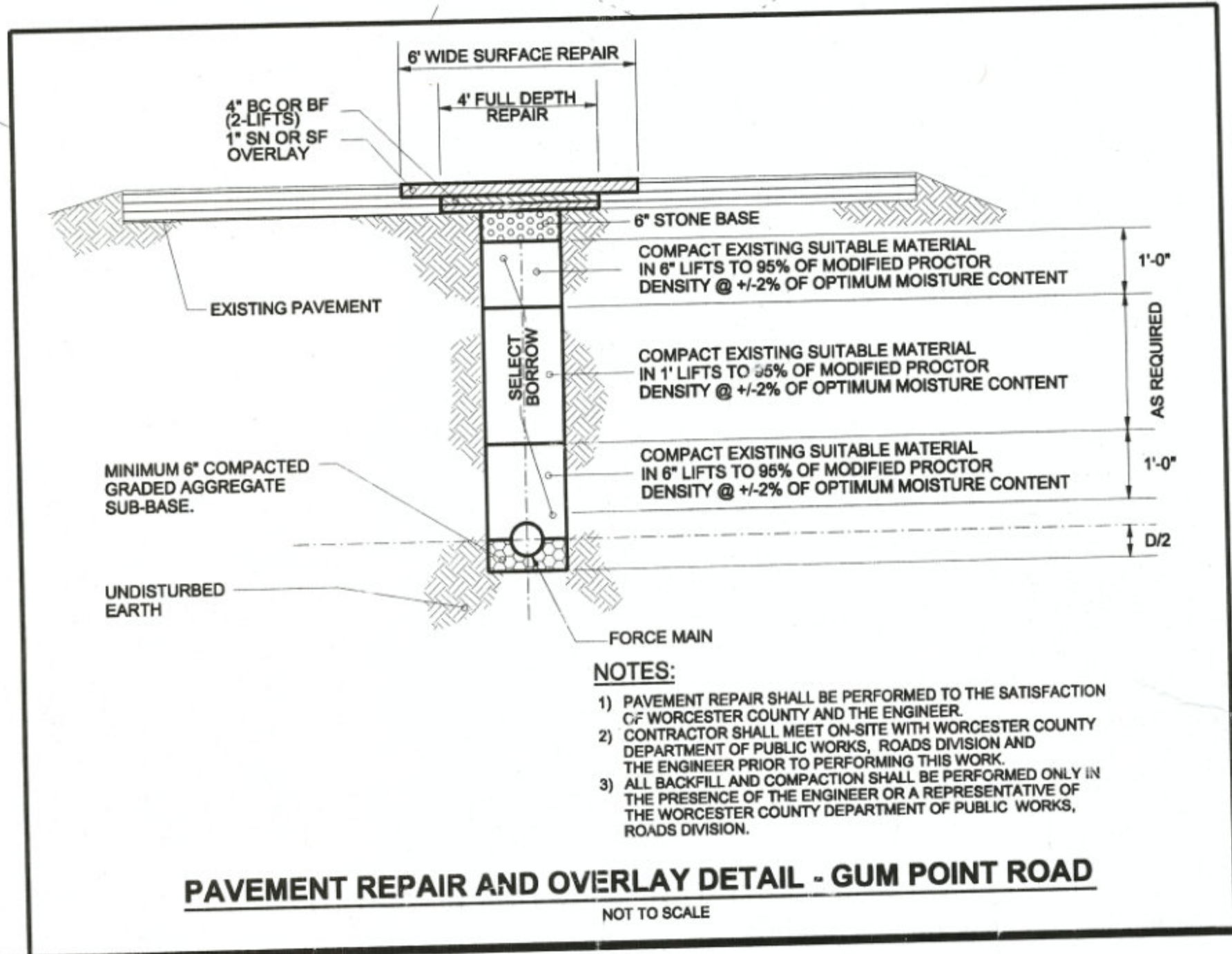
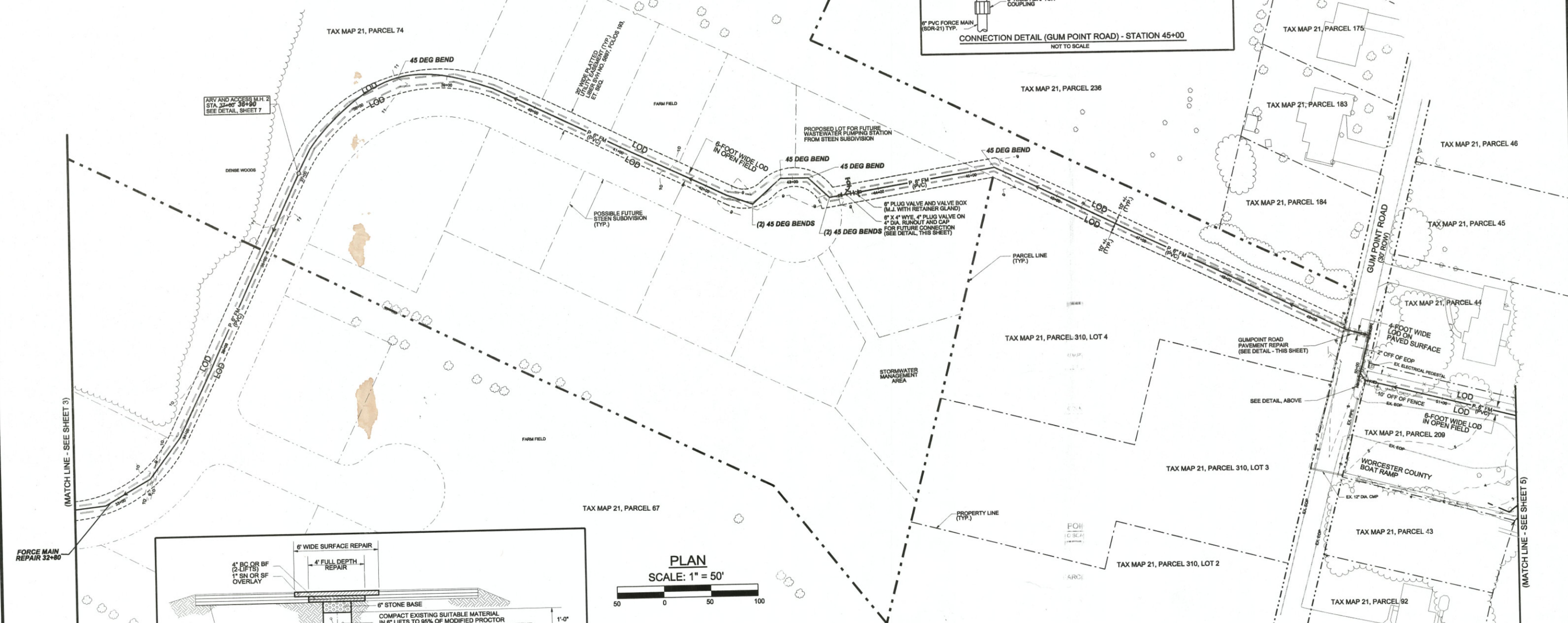
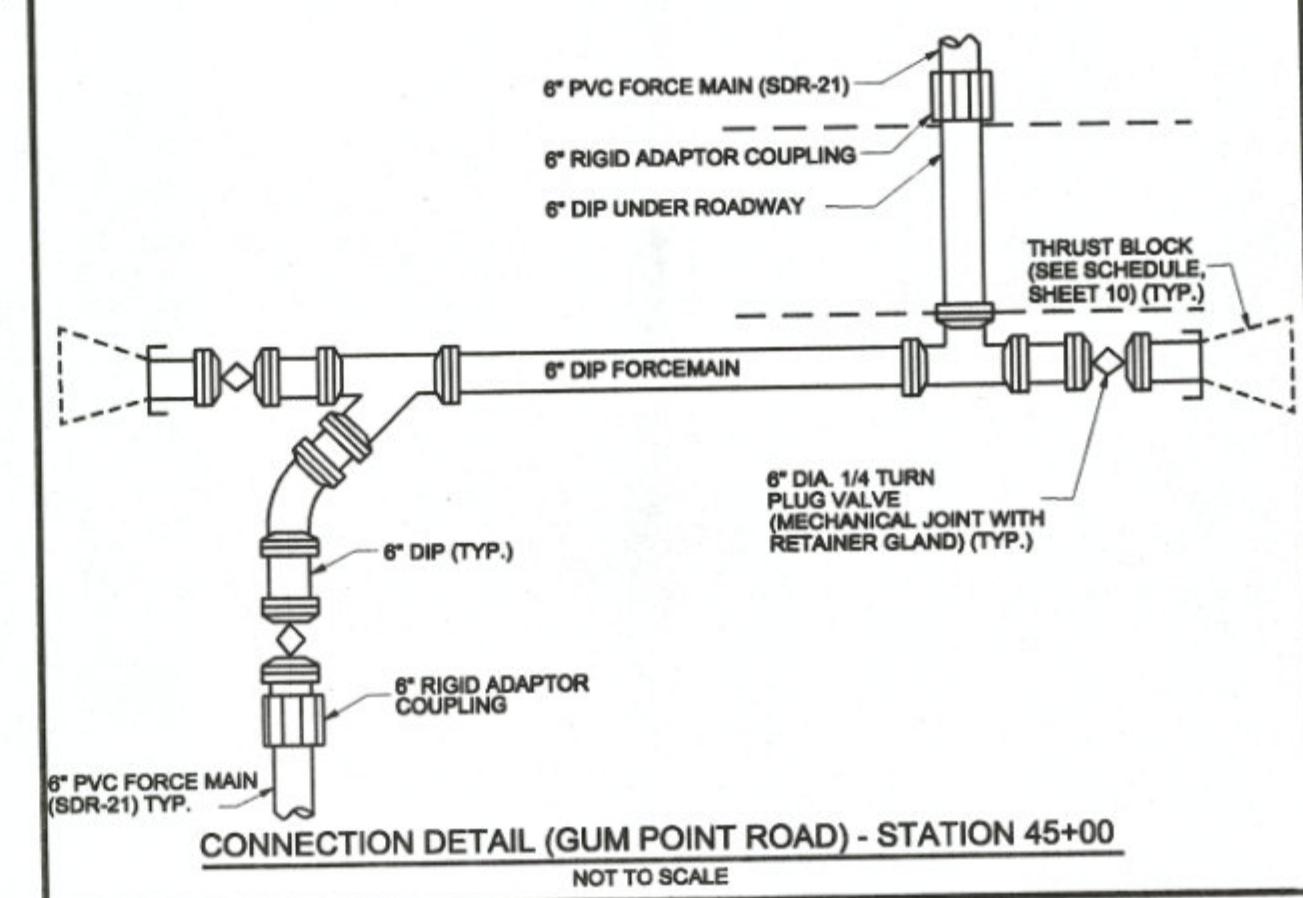
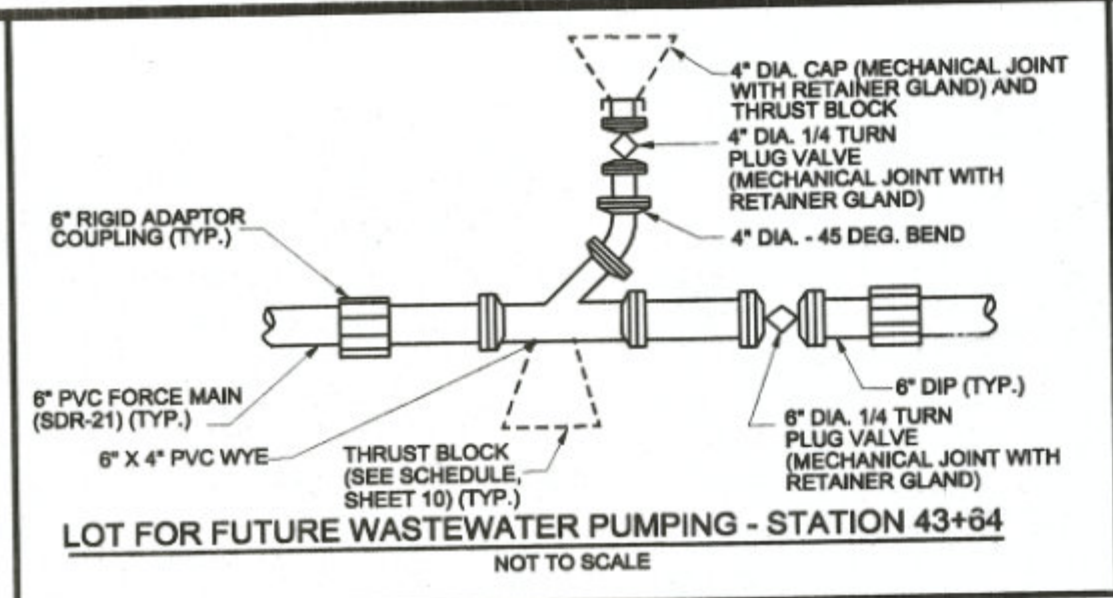
SILT FENCE		SF
LIMIT OF DISTURBANCE (LOD)		LOD
EX. SILT FENCE		EX. SF

NOTES:

1. IN GENERAL, FORCE MAIN ALIGNMENT SHALL HAVE A MINIMUM 10' HORIZONTAL SEPARATION FROM WATER MAINS EXCEPT WHERE CROSSINGS ARE SHOWN ON THIS DRAWING. PROVIDE ALL TEES, HORIZONTAL AND VERTICAL BENDS AND OTHER FITTINGS AS REQUIRED, FOR PROPER ALIGNMENT. PIPE DEFLECTIONS SHALL STRICTLY CONFORM TO THE PIPE MANUFACTURER'S REQUIREMENTS. PROVIDE PLUG VALVES OF THE SAME DIAMETER AS THE FORCE MAIN, WHERE SHOWN, UNLESS LABELED OTHERWISE.
2. PROVIDE VERTICAL BENDS TO ROUTE FORCE MAIN UNDER STORM DRAINS, GAS, WATER AND OTHER FORCE MAINS. SEE DETAIL, SHEET 6.
3. SEWER FORCE MAIN SHALL BE PVC, SDR-21 BELL AND SPIGOT, PUSH-ON JOINTS. UNLESS OTHERWISE NOTED IN THE DETAILS, FITTINGS FOR PVC FORCE MAIN SHALL BE SCH 40, SOLVENT-WELDED WITH THRUST BLOCK ONLY WHERE NOTED FOR SUBAQUEOUS CROSSINGS, SEWER FORCE MAIN SHALL BE HDPE CLASS 160, DR 11.0, BUTT FUSION WELDED JOINTS AND FITTINGS. PROVIDE THRUST BLOCK AND/OR THRUST RESTRAINT AT ALL BENDS AND FITTINGS.
4. PVC FORCE MAIN SHALL BE INSTALLED BY OPEN-CUT METHODS, HDPE FORCE MAIN SHALL BE INSTALLED BY HORIZONTAL DIRECTIONAL BORING METHODS.
5. UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE THE APPROXIMATE LOCATION ONLY AT UNKNOWN DEPTHS. SEE GENERAL NOTE 4, SHEET 1.

FORCE MAIN AS-BUILTS - JULY 2014

THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY WATER AND WASTEWATER SERVICES		DESIGNED BY: LCS	DRAWN BY: MG	CHECKED BY: JWS3	FORCE MAIN PLAN		
DIRECTOR WO. CO., WATER & WASTEWATER SERVICES		JOHN W. SALM, III			OCEAN DOWNS VLT AND RACETRACK PUBLIC SEWER EXTENSION		
THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY DEPARTMENT OF PUBLIC WORKS.		REVISIONS			TENTH TAX DISTRICT BERLIN WORCESTER COUNTY MARYLAND		
DIRECTOR WO. CO., DEPARTMENT OF PUBLIC WORKS		MARYLAND PROFESSIONAL ENGINEER LICENSE No.: 18731			J. W. SALM ENGINEERING, INC. P.O. BOX 397, 9842 MAIN STREET, SUITE 3 BERLIN, MD 21811		
SCALE:	DATE:	DRAWING No.:	SHEET No.:				
1" = 50'	AUG. 2012	231-03-003	3 of 13				

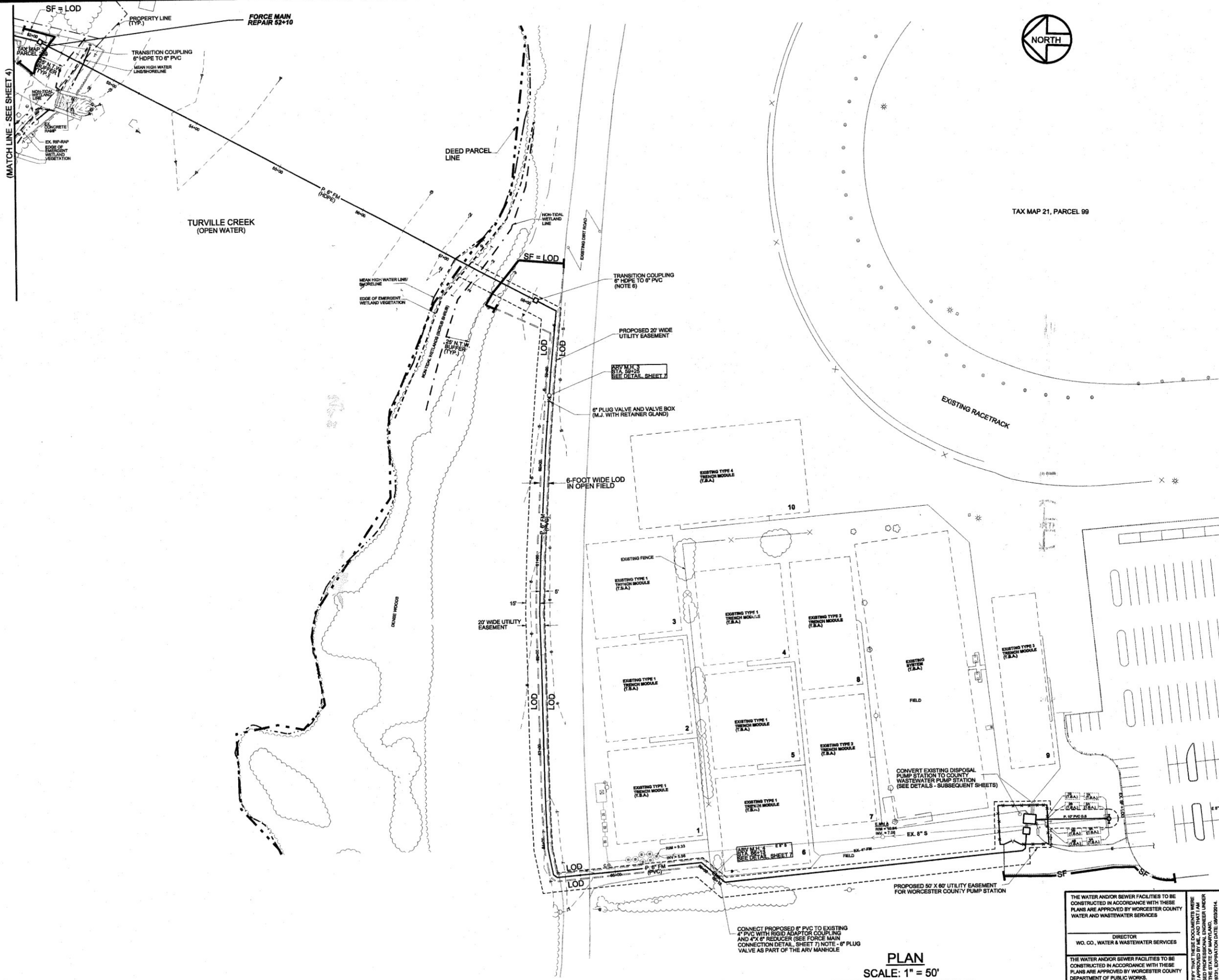


NOTES:

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3. SEWER FORCE MAIN SHALL BE PVC, SDR-21 BELL AND SPIGOT, PUSH-ON JOINTS. UNLESS OTHERWISE NOTED IN THE DETAILS, FITTINGS FOR PVC FORCE MAIN SHALL BE SCH 40, SOLVENT-WELDED WITH THRUST BLOCK. FITTINGS FOR HDPE FORCE MAIN SHALL BE HDPE CLASS 180, DR 11.0, BUTT FUSION WELDED JOINTS AND FITTINGS. PROVIDE THRUST BLOCK AND/OR THRUST RESTRAINT AT ALL BENDS AND FITTINGS.
4. PVC FORCE MAIN SHALL BE INSTALLED BY OPEN-CUT METHODS, HDPE FORCE MAIN SHALL BE INSTALLED BY HORIZONTAL DIRECTIONAL BORING METHODS.
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FORCE MAIN AS-BUILTS - JULY 2014

THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY WATER AND WASTEWATER SERVICES		DIRECTOR WO. CO., WATER & WASTEWATER SERVICES	DESIGNED BY: LCS	DRAWN BY: MG	CHECKED BY: JWS3	FORCE MAIN PLAN		
THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY DEPARTMENT OF PUBLIC WORKS.		DIRECTOR WO. CO., DEPARTMENT OF PUBLIC WORKS	DESIGNED BY: JOHN W. SALM, III	DRAWN BY:	CHECKED BY: REVISIONS	OCEAN DOWNS VLT AND RACETRACK PUBLIC SEWER EXTENSION		
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 18711, EXPIRATION DATE: 06/30/2014.		MARYLAND PROFESSIONAL ENGINEER LICENSE No.: 19731				TENTH TAX DISTRICT BERLIN WORCESTER COUNTY MARYLAND		
						J. W. SALM ENGINEERING, INC.		
						P.O. BOX 397, 9842 MAIN STREET, SUITE 3 BERLIN, MD 21811		
SCALE: 1" = 50'	DATE: AUG. 2012	DRAWING No.:	231-03-004		SHEET No.:		4 of 13	

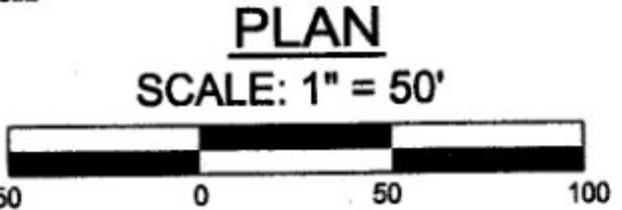


STANDARD SESC SYMBOLS / LEGEND

- SILT FENCE — SF —
- LIMIT OF DISTURBANCE (LOD) — SF = LOD —
- EX. SILT FENCE — LOD —
- EX. SF —

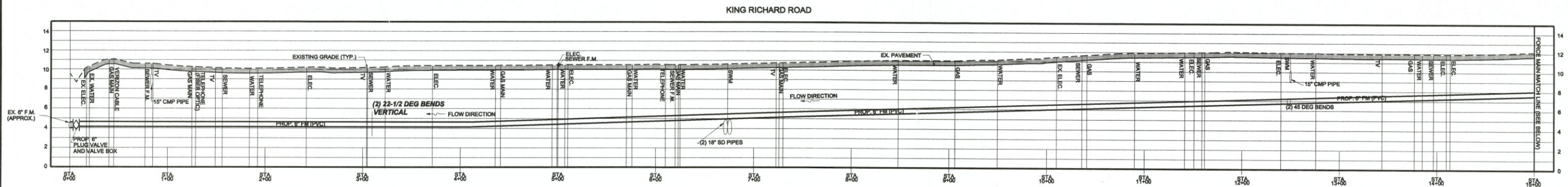
- NOTES:**
1. IN GENERAL, FORCE MAIN ALIGNMENT SHALL HAVE A MINIMUM 10' HORIZONTAL SEPARATION FROM WATER MAINS EXCEPT WHERE CROSSINGS ARE SHOWN ON THIS DRAWING. PROVIDE ALL TEES, HORIZONTAL AND VERTICAL BENDS AND OTHER FITTINGS AS REQUIRED, FOR PROPER ALIGNMENT. PIPE DEFLECTIONS SHALL STRICTLY CONFORM TO THE PIPE MANUFACTURER'S REQUIREMENTS. PROVIDE PLUG VALVES OF THE SAME DIAMETER AS THE FORCE MAIN, WHERE SHOWN, UNLESS LABELED OTHERWISE.
 2. PROVIDE VERTICAL BENDS TO ROUTE FORCE MAIN UNDER STORM DRAINS, GAS, WATER AND OTHER FORCE MAINS. SEE DETAIL, SHEET 6.
 3. SEWER FORCE MAIN SHALL BE PVC, SDR-21 BELL AND SPIGOT, PUSH-ON JOINTS, UNLESS OTHERWISE NOTED IN THE DETAILS. FITTINGS FOR PVC FORCE MAIN SHALL BE SCH 40, SOLVENT-WELDED WITH THRUST BLOCK, ONLY WHERE NOTED. FOR SUBSIDIARY CROSSINGS, SEWER FORCE MAIN SHALL BE HDPE CLASS 160, DR 11.0, BUTT FUSION WELDED JOINTS AND FITTINGS. PROVIDE THRUST BLOCK AND/OR THRUST RESTRAINT AT ALL BENDS AND FITTINGS.
 4. PVC FORCE MAIN SHALL BE INSTALLED BY OPEN-CUT METHODS, HDPE FORCE MAIN SHALL BE INSTALLED BY HORIZONTAL DIRECTIONAL BORING METHODS.
 5. UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE THE APPROXIMATE LOCATION ONLY AT UNKNOWN DEPTHS. SEE GENERAL NOTE 4, SHEET 1.
 6. HDPE TO IPS PVC CONNECTION SHALL BE POLY-CAM SERIES 730 TRANSITION FITTING OR EQUAL RESTRAINT JOINTS REQUIRED AT COUPLING AND RESTRAINED PIPE JOINTS 200 FEET EACH SIDE OF TRANSITION. USE EBBA IRON SERIES 8500 BELL RESTRAINT HARNESS AND SERIES 7500 FITTING RESTRAINT OR EQUAL FOR IPS PVC RESTRAINED JOINTS.

CONNECT PROPOSED 6" PVC TO EXISTING 4" PVC WITH RIGID ADAPTOR COUPLING AND 4"x 6" REDUCER (SEE FORCE MAIN CONNECTION DETAIL, SHEET 7) NOTE: 6" PLUG VALVE AS PART OF THE ARV MANHOLE.

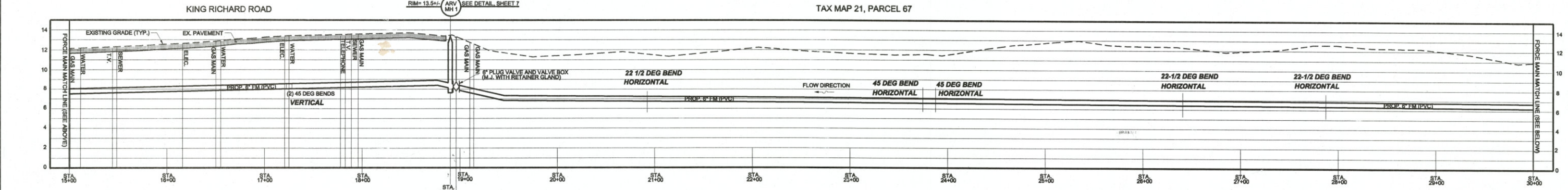


FORCE MAIN AS-BUILTS - JULY 2014

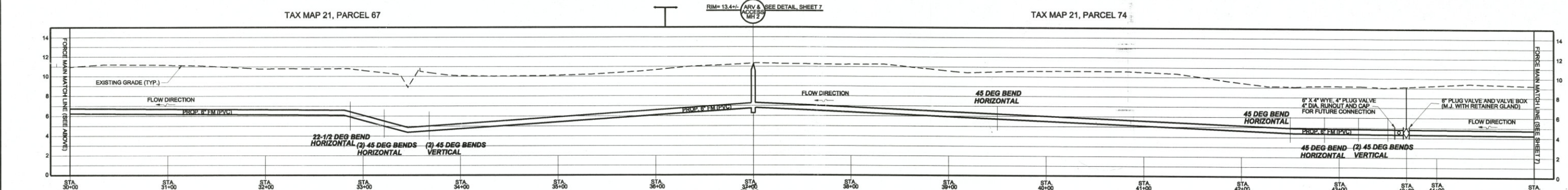
THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY WATER AND WASTEWATER SERVICES DIRECTOR WO. CO., WATER & WASTEWATER SERVICES		DESIGNED BY: LCS DRAWN BY: MG CHECKED BY: JWS3		FORCE MAIN PLAN	
THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY DEPARTMENT OF PUBLIC WORKS. DIRECTOR WO. CO., DEPARTMENT OF PUBLIC WORKS		JOHNS W. SALM, III REVISIONS:		OCEAN DOWNS VLT AND RACETRACK PUBLIC SEWER EXTENSION TENTH TAX DISTRICT BERLIN WORCESTER COUNTY MARYLAND J. W. SALM ENGINEERING, INC. P.O. BOX 397, 9842 MAIN STREET, SUITE 3 BERLIN, MD 21811	
		MARYLAND PROFESSIONAL ENGINEER LICENSE No.: 19731		SCALE: 1" = 50' DATE: AUG. 2012 DRAWING No.: 231-03-005 SHEET No.: 5 of 13	



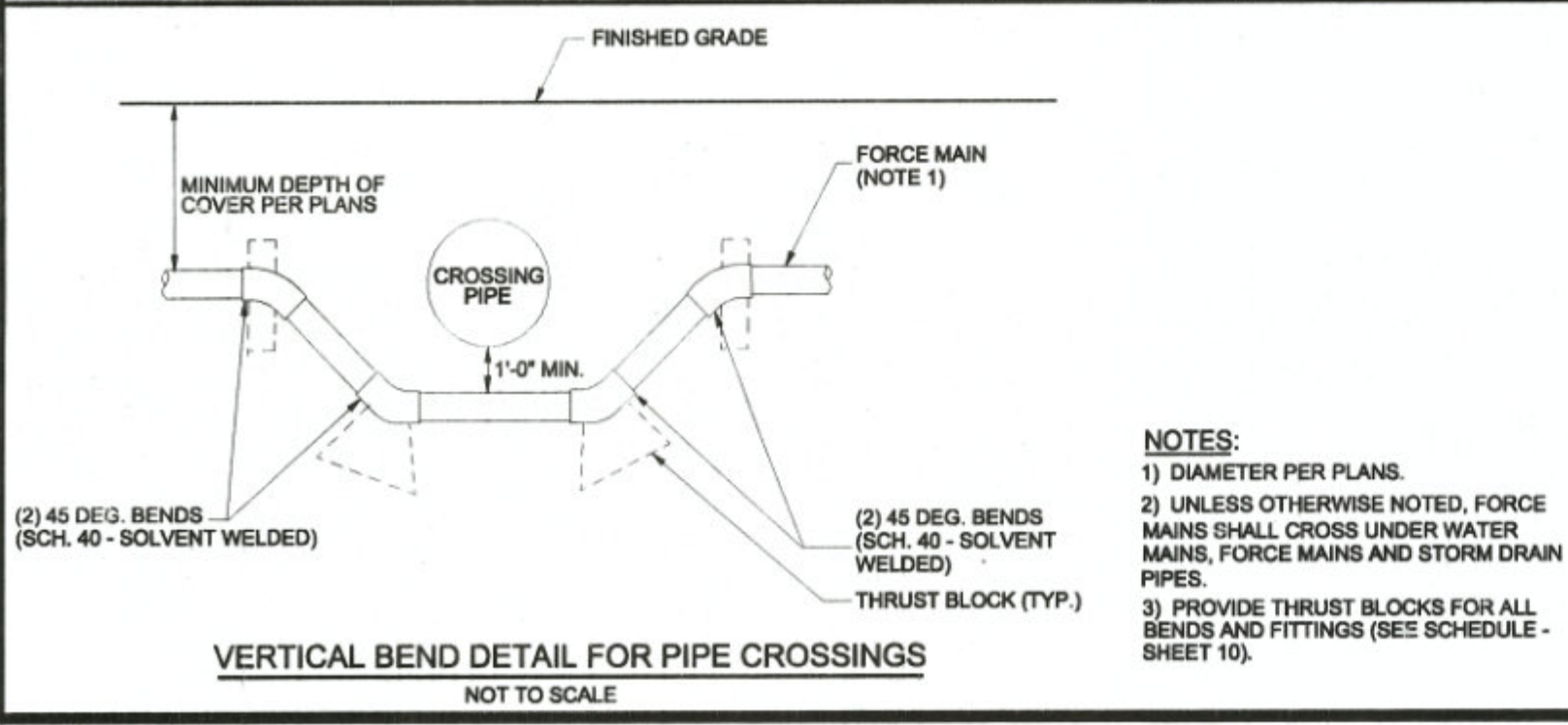
PROFILE - FORCE MAIN
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'-0"



PROFILE - FORCE MAIN
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'-0"



PROFILE - FORCE MAIN
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'-0"



NOTES:
1) WHERE APPLICABLE, ALL FORCE MAIN STATIONING IS ALONG THE CENTERLINE OF THE EASEMENT.
2) UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE LOCATIONS AT DEPTHS UNKNOWN. SEE GENERAL NOTE 4, SHEET 1.

FORCE MAIN AS-BUILTS - JULY 2014

THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY WATER AND WASTEWATER SERVICES		DESIGNED BY:	DRAWN BY:	CHECKED BY:	FORCE MAIN PROFILES OCEAN DOWNS VLT AND RACETRACK PUBLIC SEWER EXTENSION TENTH TAX DISTRICT BERLIN WORCESTER COUNTY MARYLAND J. W. SALM ENGINEERING, INC. P.O. BOX 397, 9842 MAIN STREET, SUITE 3 BERLIN, MD 21811
DIRECTOR WO. CO., WATER & WASTEWATER SERVICES		LCS	MG	JWS3	
THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY DEPARTMENT OF PUBLIC WORKS		JOHN W. SALM, III REVISIONS			SCALE: 1" = 50' DATE: AUG. 2012 DRAWING No.: 231-03-006 SHEET No.: 6 of 13
DIRECTOR WO. CO., DEPARTMENT OF PUBLIC WORKS		MARYLAND PROFESSIONAL ENGINEER LICENSE No.: 19731			

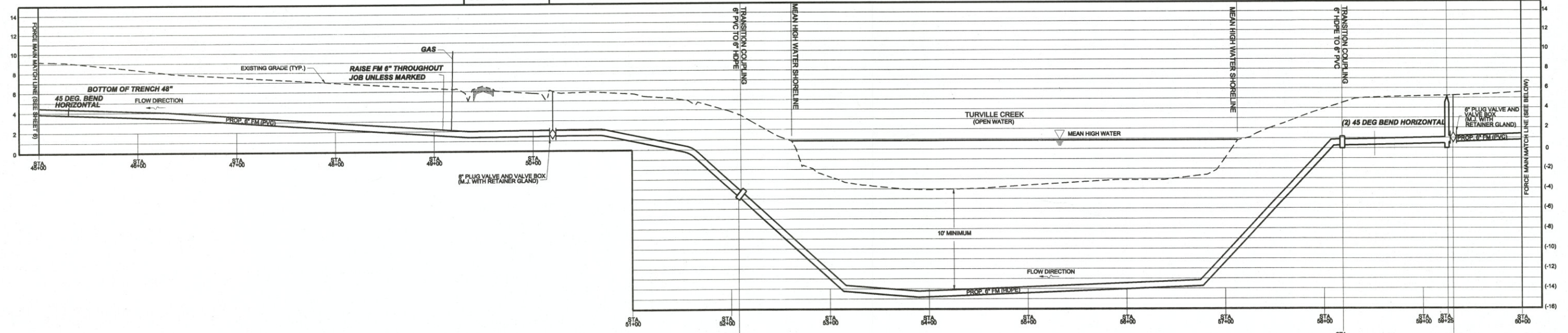
TAX MAP 21, PARCEL 74

GUM POINT ROAD

TAX MAP 21, PARCEL 1209
WORCESTER COUNTY BOAT RAMP

TAX MAP 21, PARCEL 99
OCEAN DOWNS

RIM= 5.2'-0" ARV M#13 SEE DETAIL THIS SHEET

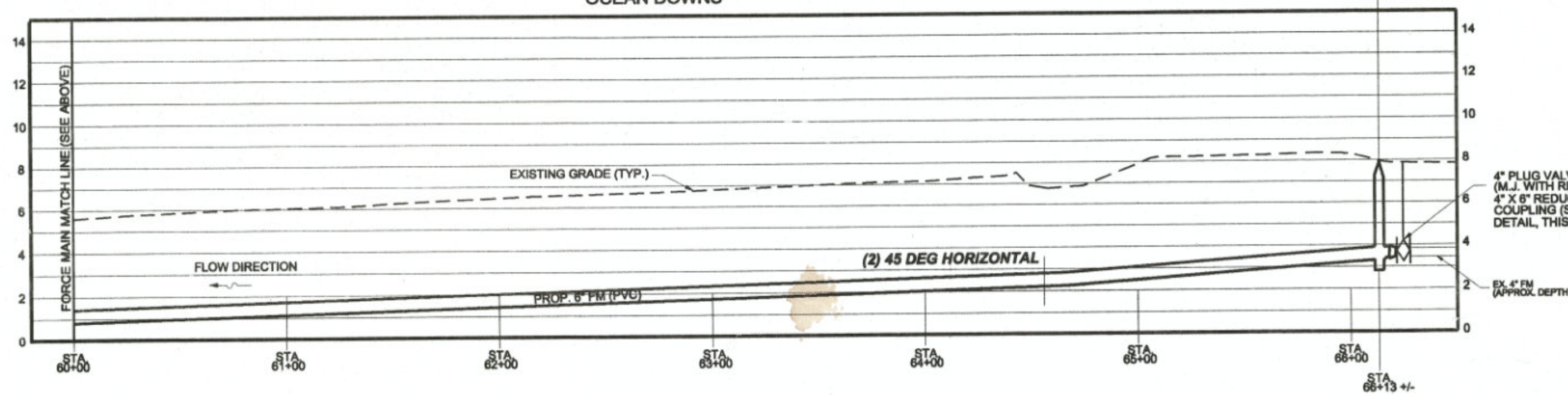


PROFILE - FORCE MAIN

SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'-0"

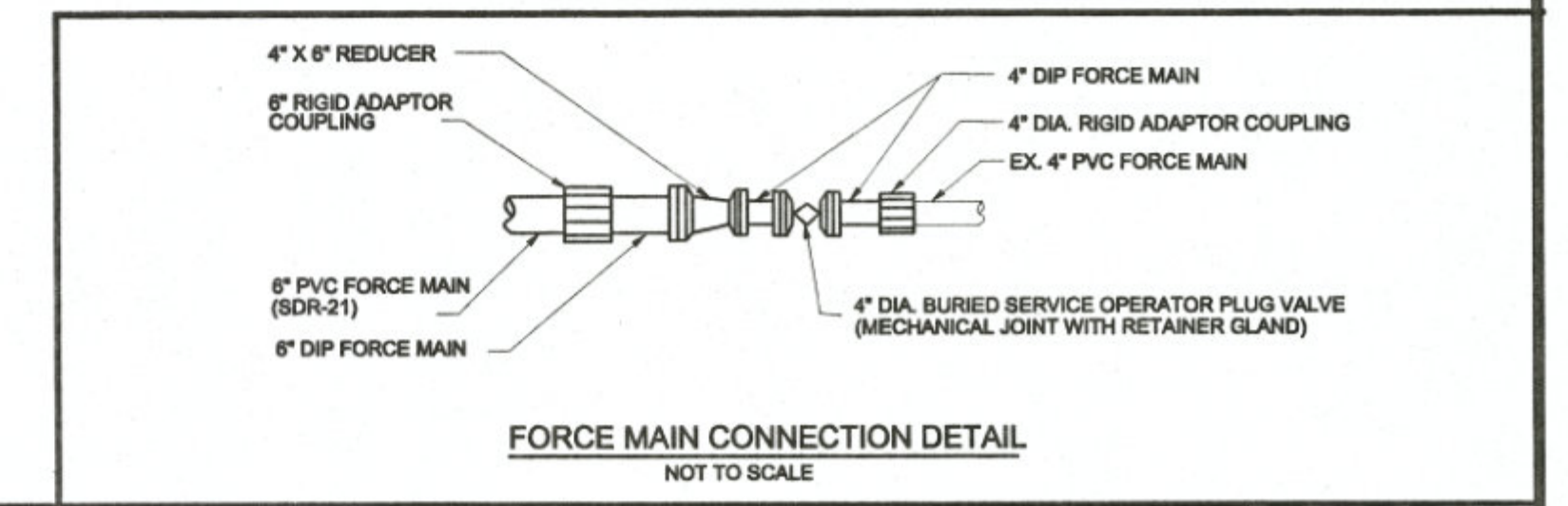
TAX MAP 21, PARCEL 99
OCEAN DOWNS

CONTRACTOR - TEST PIT THIS LOCATION PRIOR TO ORDERING ARV M#4
RIM= 8.0'-0" ARV M#4 SEE DETAIL THIS SHEET



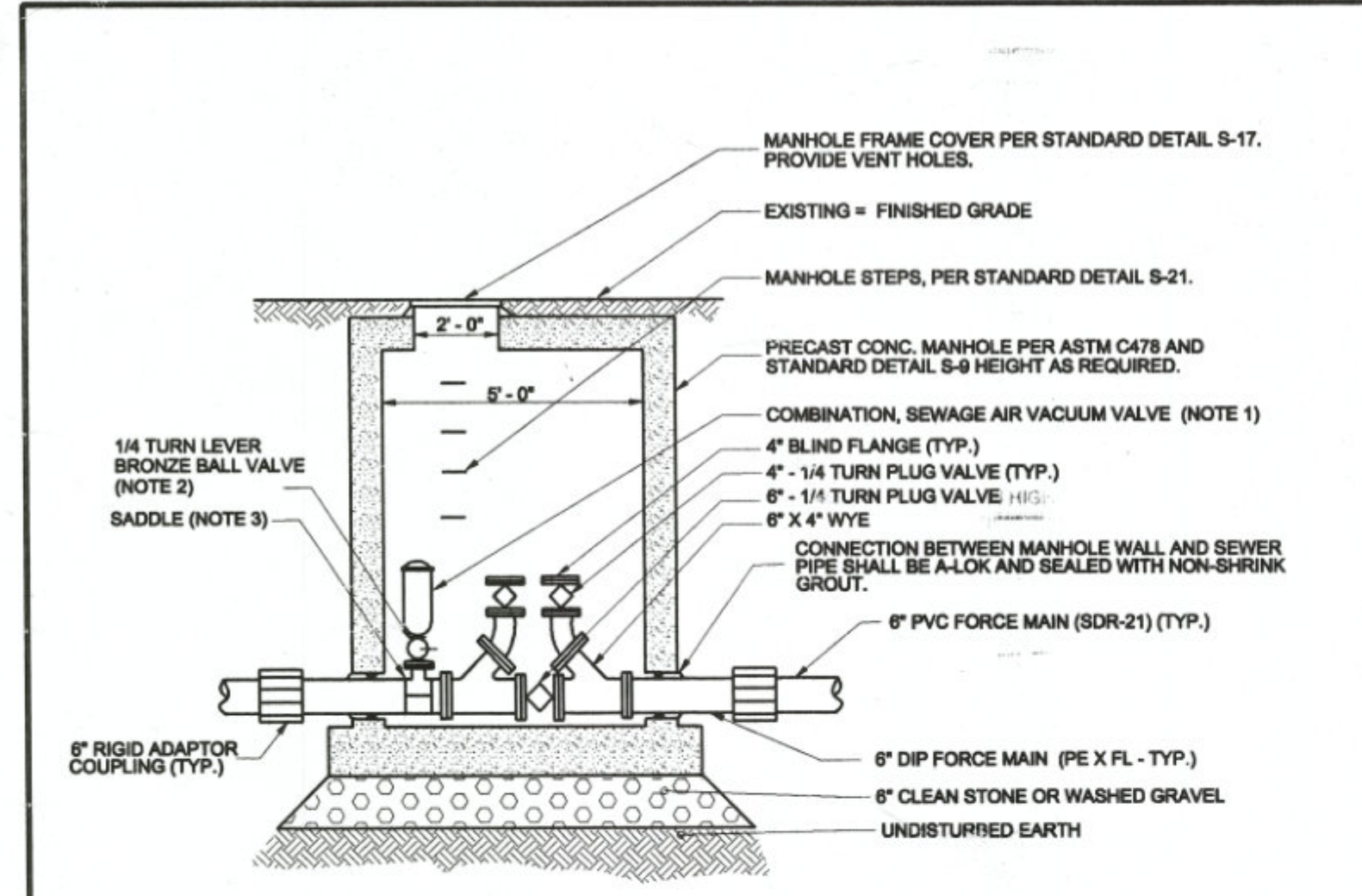
PROFILE - FORCE MAIN

SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'-0"



FORCE MAIN CONNECTION DETAIL

NOT TO SCALE

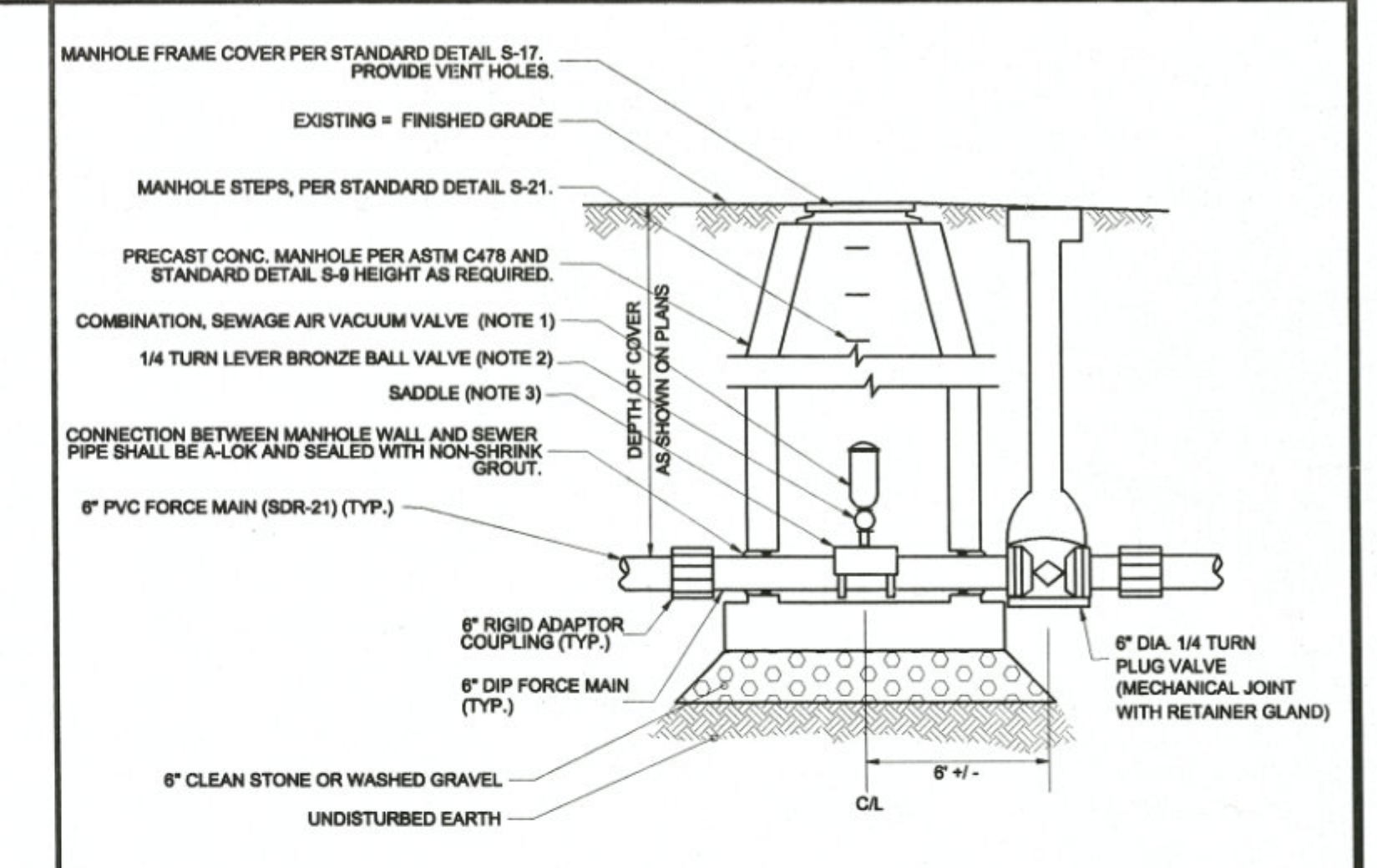


NOTES:

- 1) COMBINATION SEWAGE AIR RELEASE VACUUM VALVE SHALL BE APCO MODEL 445, 2" NPT.
- 2) BRONZE BALL VALVE SHALL HAVE SS. NIPPLES AND HARDWARE.
- 3) SADDLE SHALL BE PAINTED CAST-IRON 2" THREADED, NPT, DOUBLE BAILE SADDLE. BAILES AND HARDWARE SHALL BE STAINLESS STEEL.
- 4) USE THREADED BRASS OR STAINLESS STEEL NIPPLES ONLY.

TYPICAL AIR RELEASE VALVE (ARV) AND ACCESS MANHOLE VAULT
(FOR ARV 2 ONLY)

NOT TO SCALE



NOTES:

- 1) COMBINATION SEWAGE AIR RELEASE VACUUM VALVE SHALL BE APCO MODEL 445, 2" NPT.
- 2) BRONZE BALL VALVE SHALL HAVE SS. NIPPLES AND HARDWARE.
- 3) SADDLE SHALL BE PAINTED CAST-IRON 2" THREADED, NPT, DOUBLE BAILE SADDLE. BAILES AND HARDWARE SHALL BE STAINLESS STEEL.
- 4) USE THREADED BRASS OR STAINLESS STEEL NIPPLES ONLY.

TYPICAL SEWAGE AIR RELEASE VALVE (ARV) AND MANHOLE DETAIL
(FOR ARV 1, ARV 3 & ARV 4)

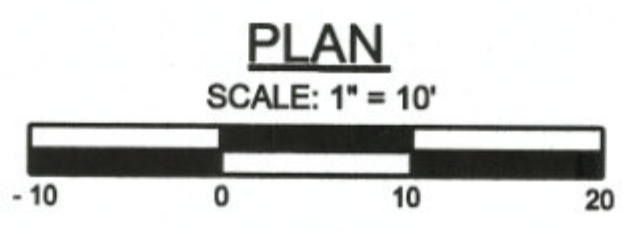
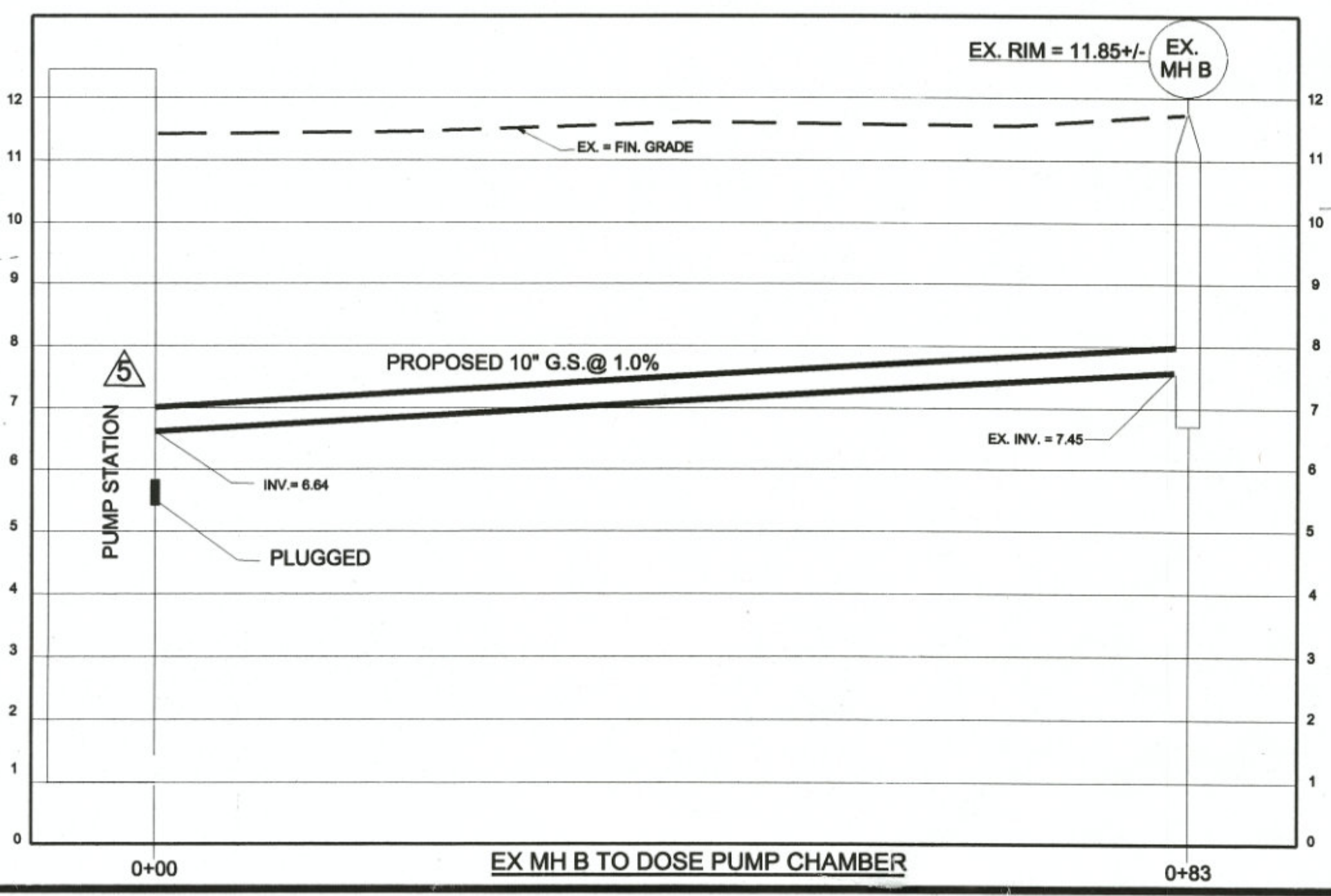
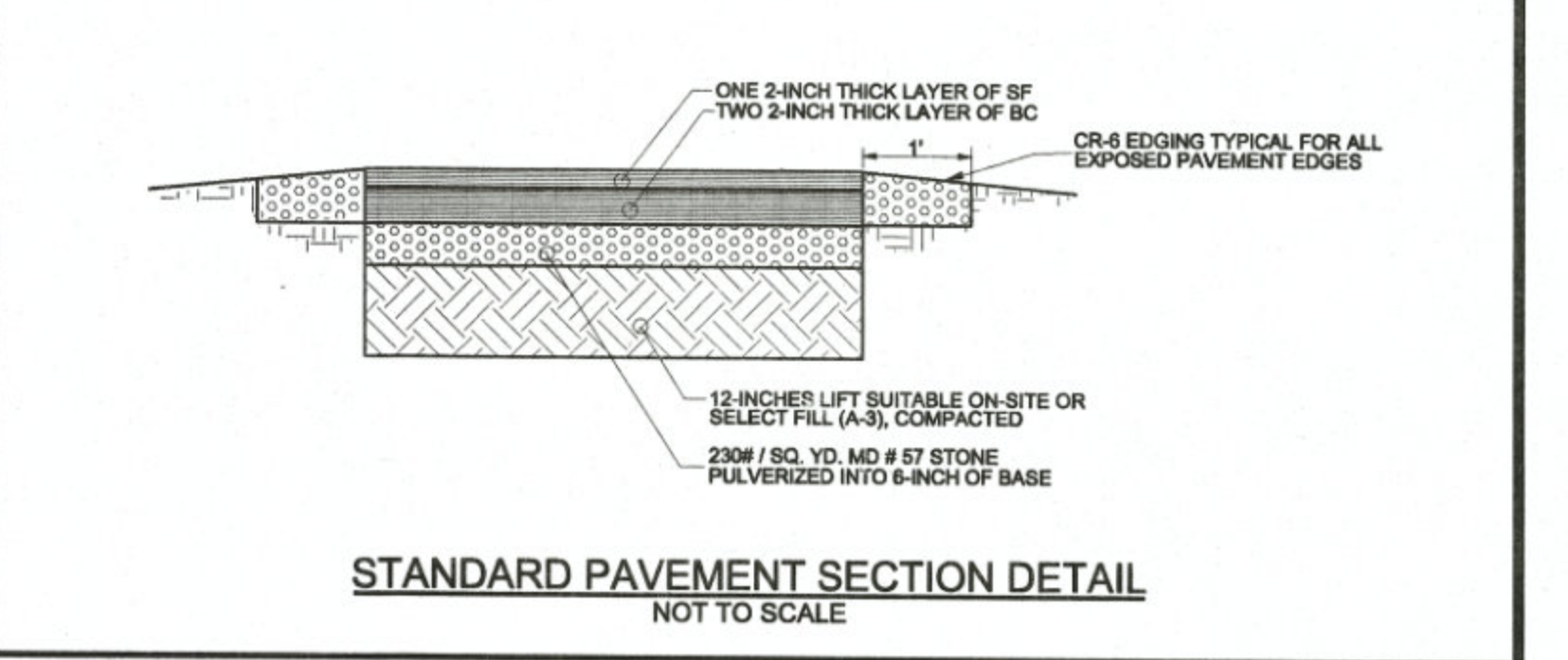
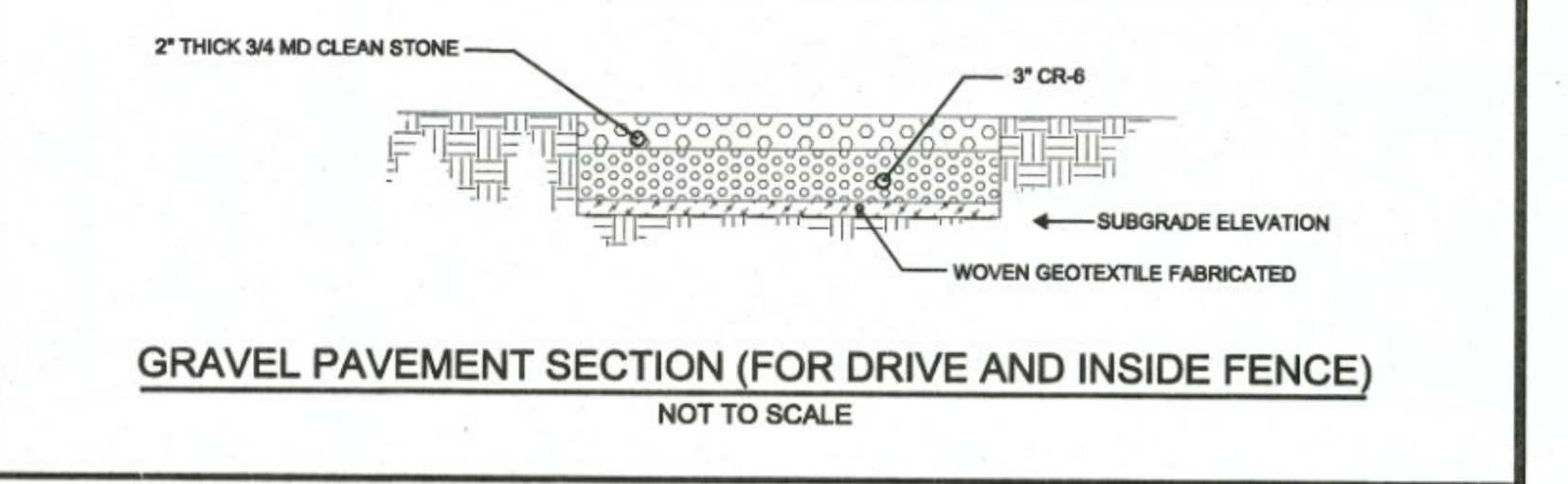
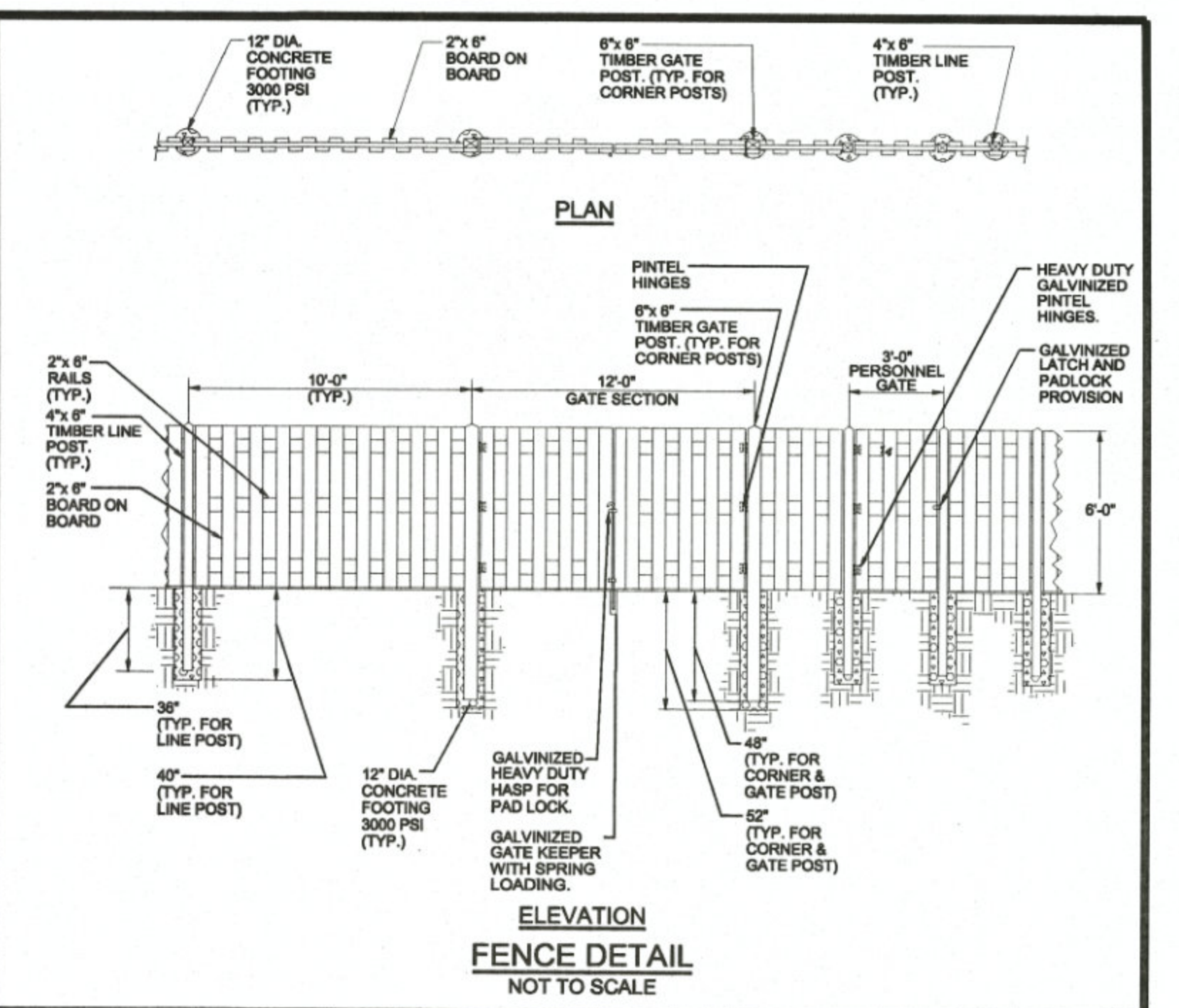
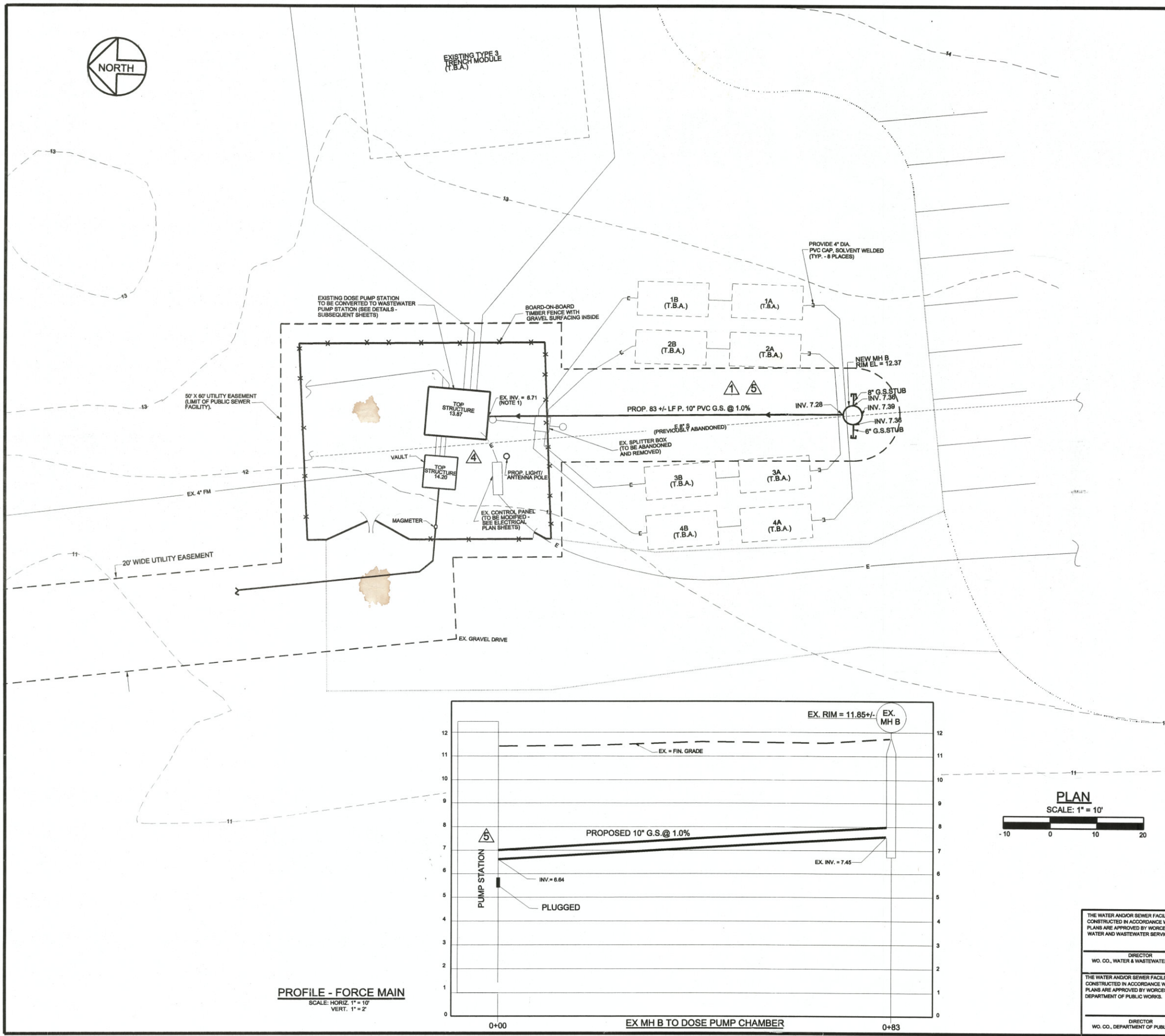
NOT TO SCALE

FORCE MAIN AS-BUILTS - JULY 2014

NOTES:

- 1) WHERE APPLICABLE, ALL FORCE MAIN STATIONING IS ALONG THE CENTERLINE OF THE EASEMENT.
- 2) UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE LOCATIONS AT DEPTHS UNKNOWN. SEE GENERAL NOTE 4, SHEET 1.

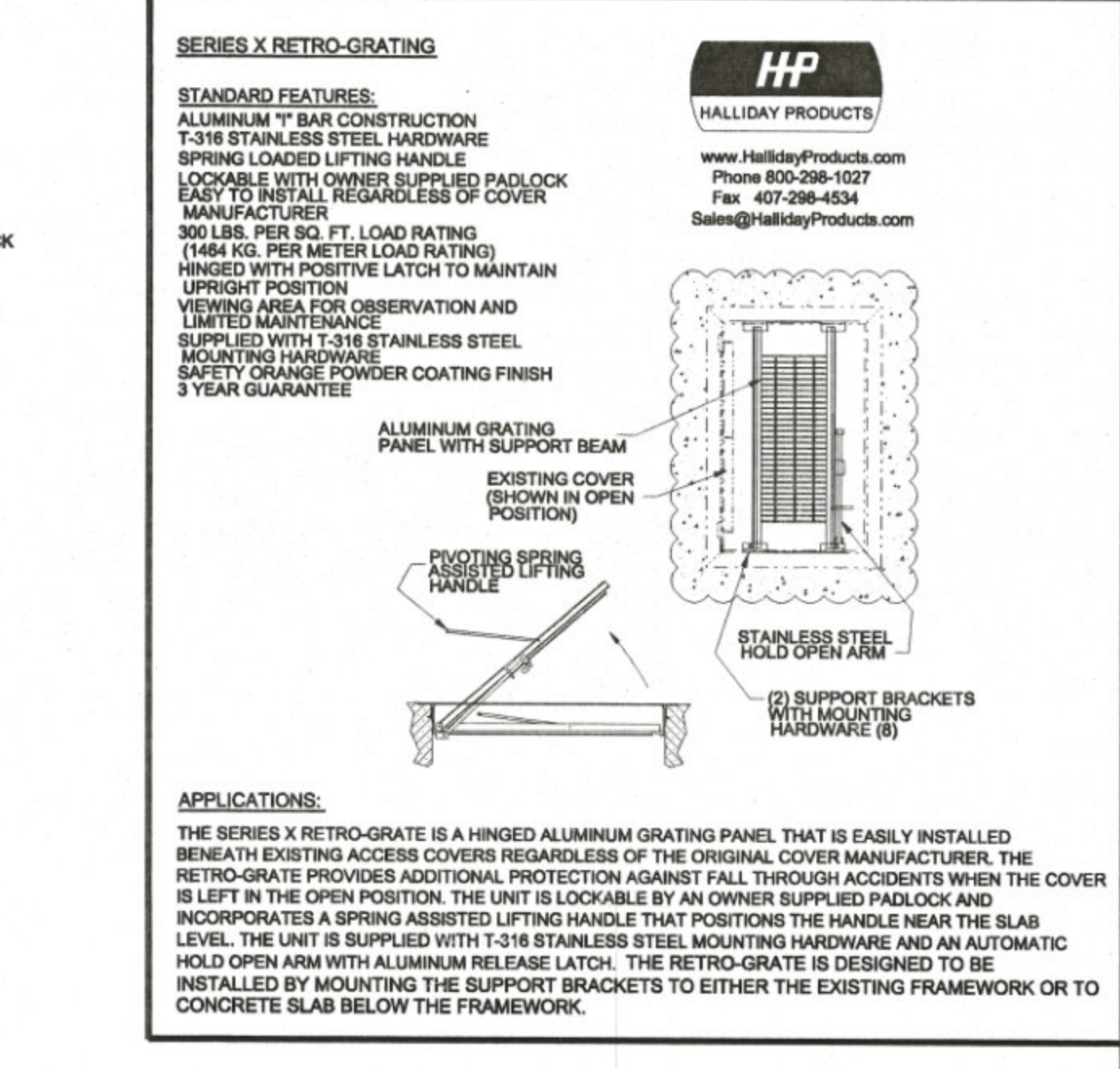
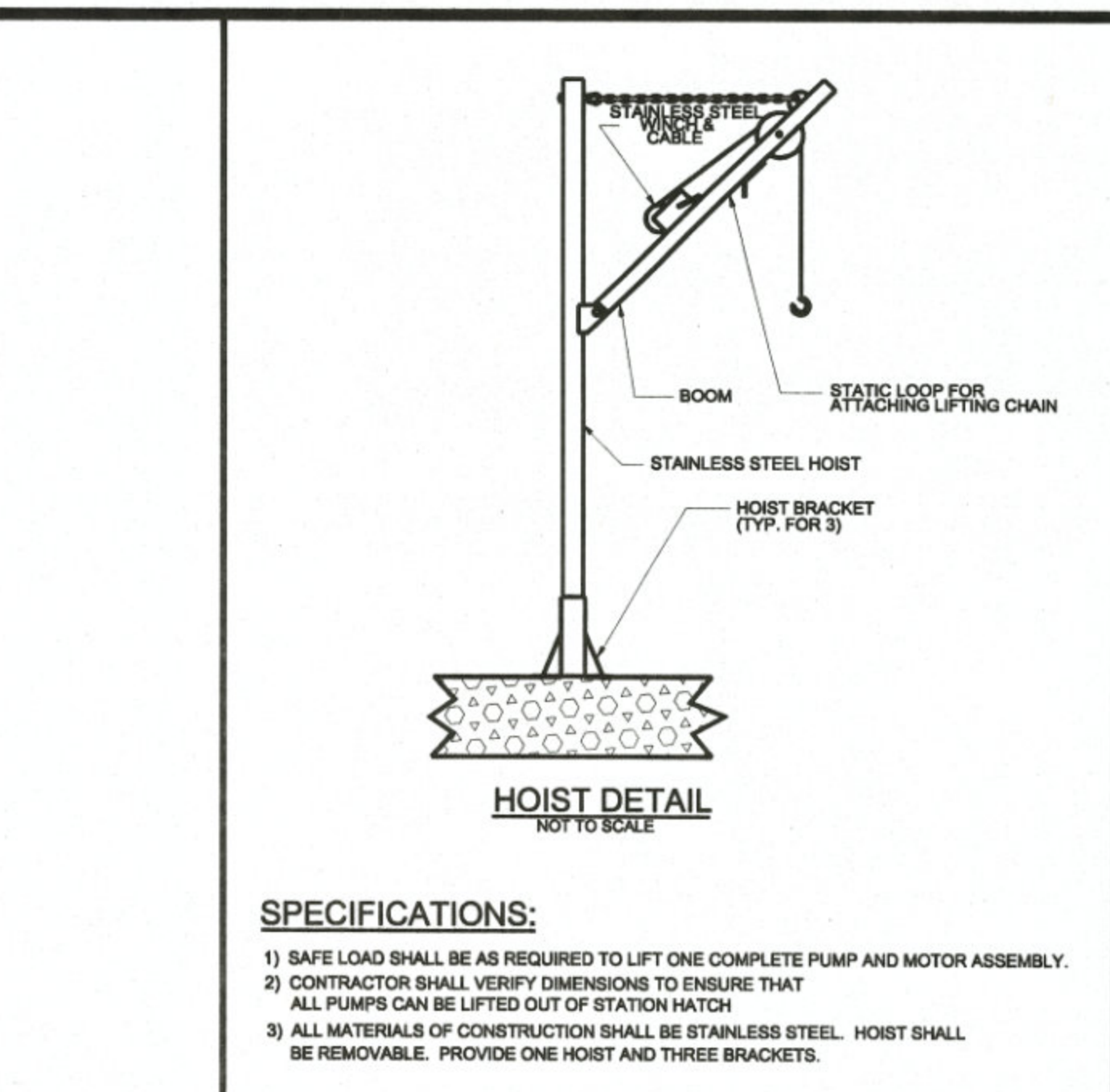
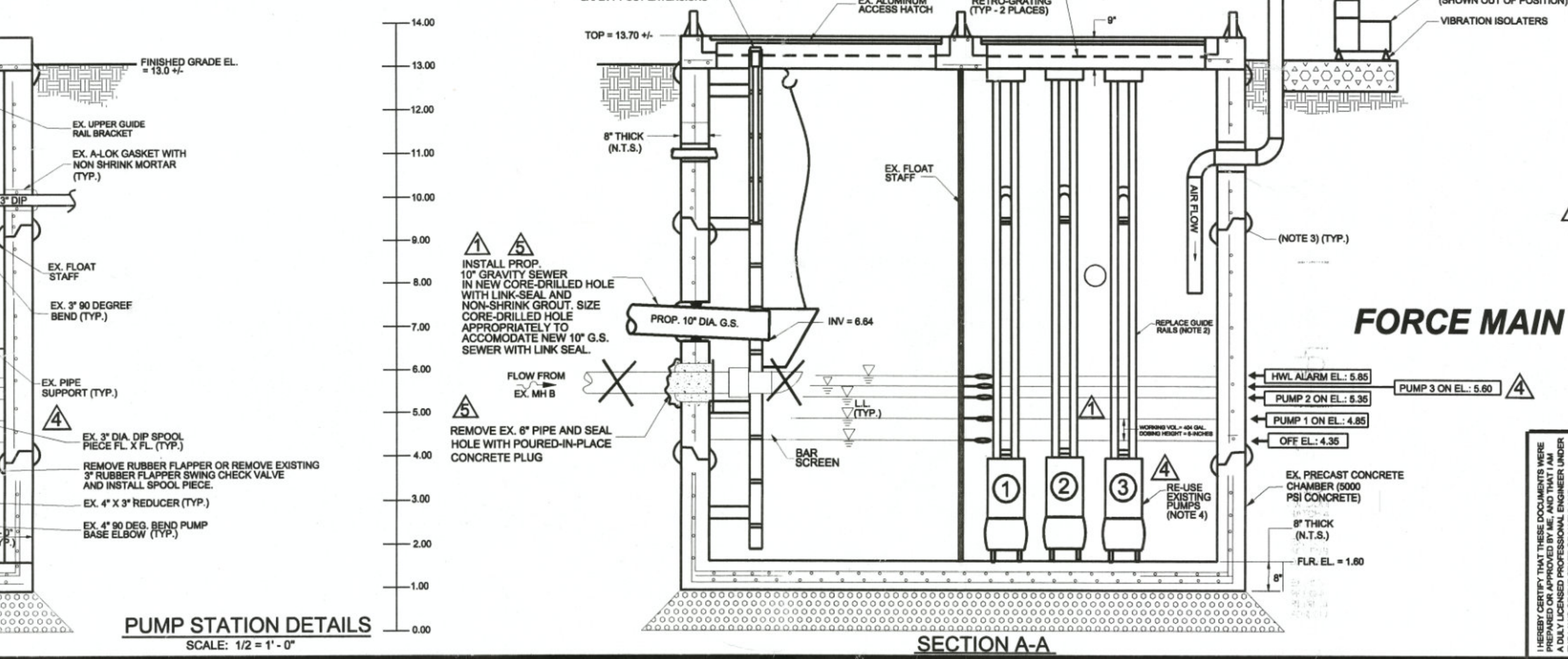
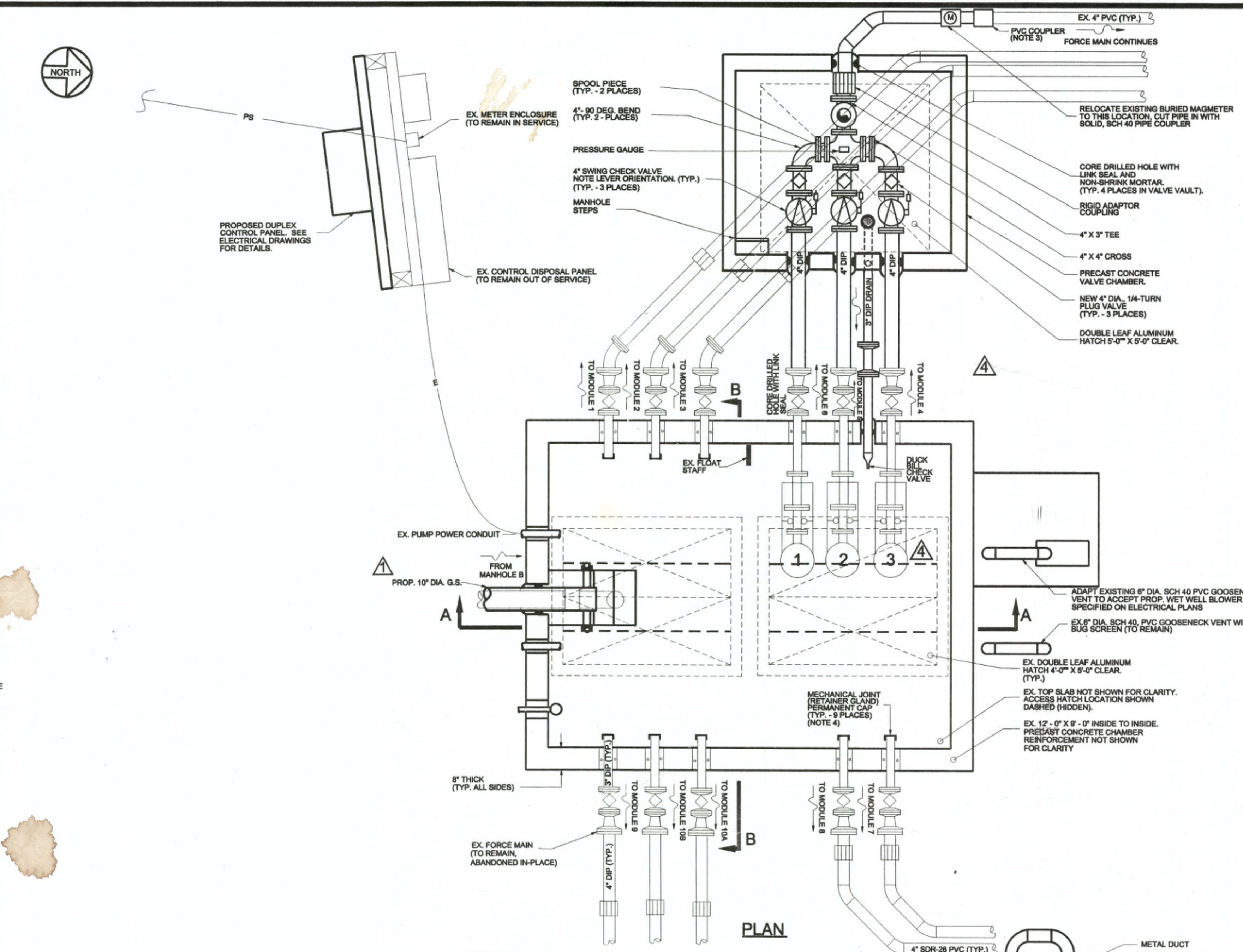
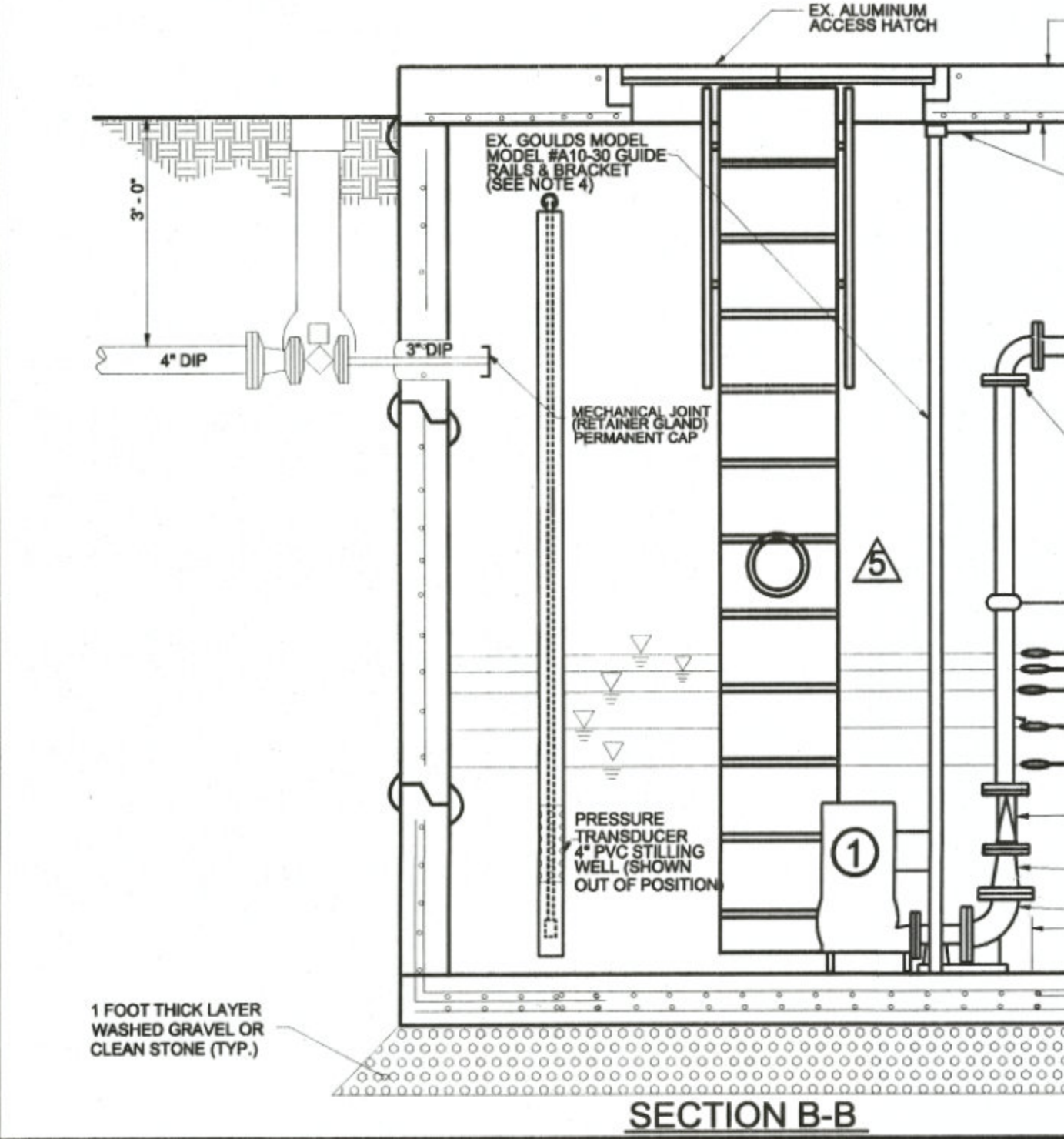
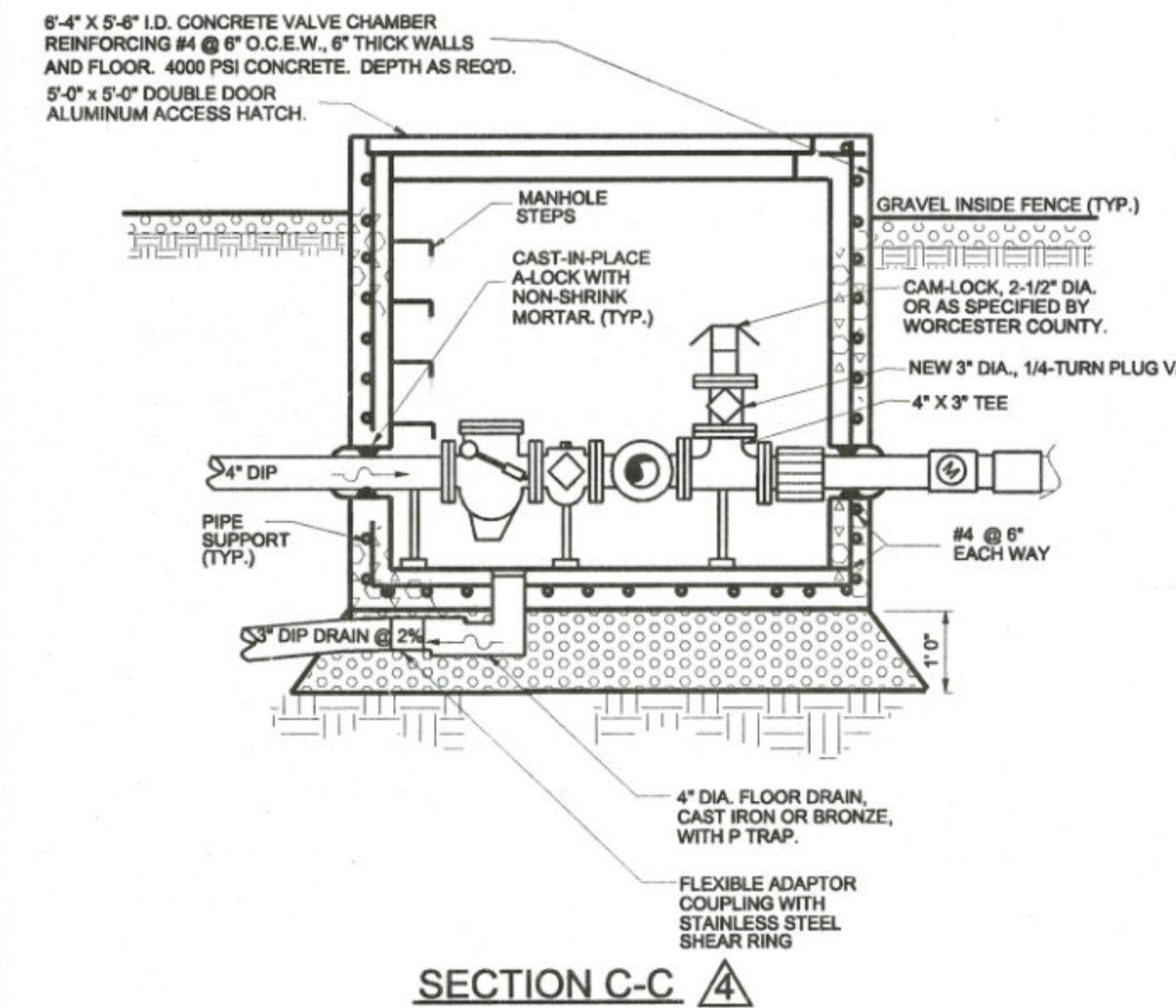
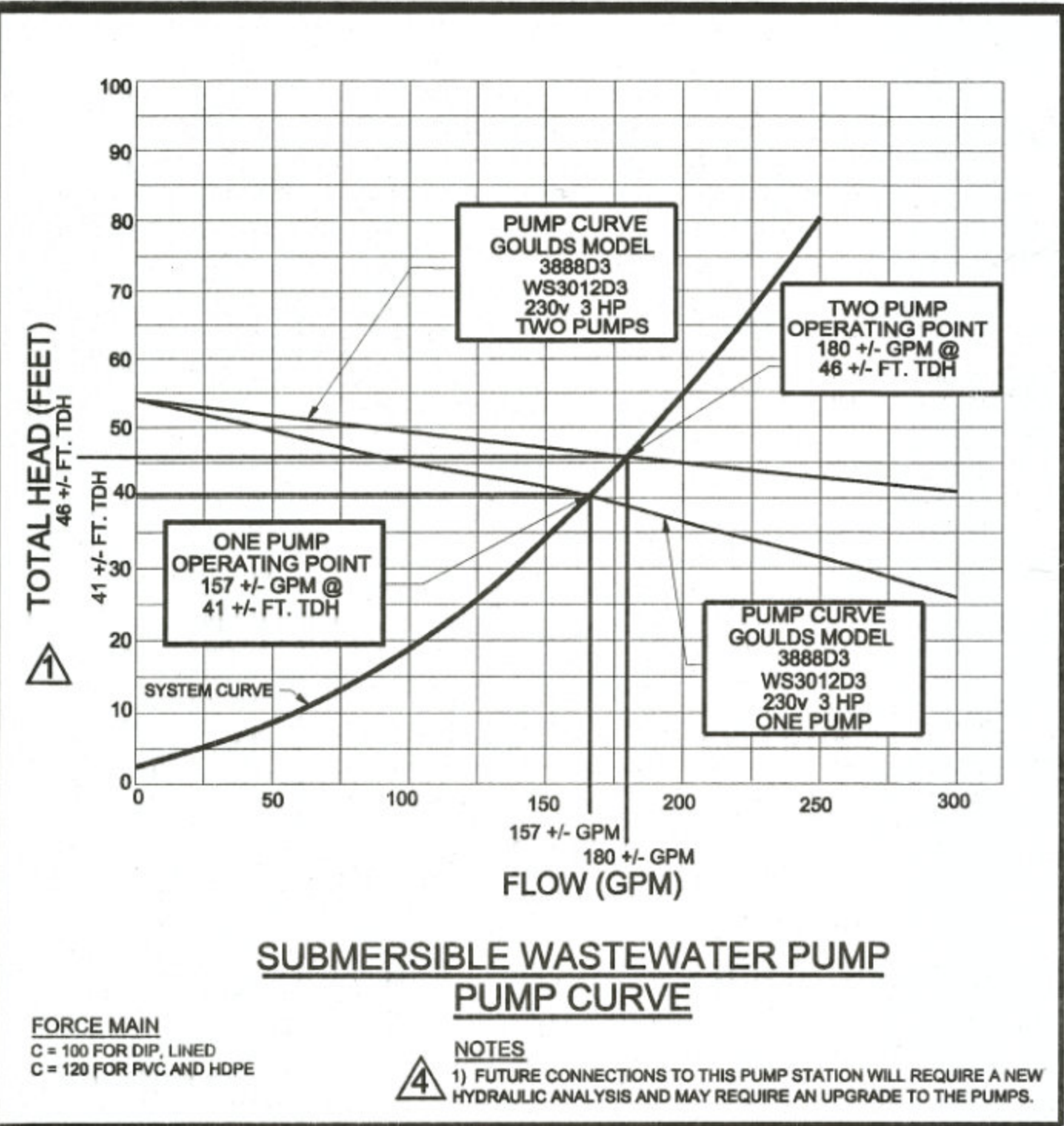
THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY WATER AND WASTEWATER SERVICES				DESIGNED BY: LCS				DRAWN BY: MG				CHECKED BY: JWS3			
DIRECTOR WO. CO., WATER & WASTEWATER SERVICES				JOHN W. SALM, III				REVISIONS				FORCE MAIN PROFILES			
THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY DEPARTMENT OF PUBLIC WORKS				MARYLAND PROFESSIONAL ENGINEER LICENSE No.: 19731				OCEAN DOWNS VLT AND RACETRACK PUBLIC SEWER EXTENSION				TENTH TAX DISTRICT BERLIN WORCESTER COUNTY MARYLAND			
DIRECTOR WO. CO., DEPARTMENT OF PUBLIC WORKS				I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 19731. EXPIRATION DATE: 06/30/2014				J. W. SALM ENGINEERING, INC.				P.O. BOX 397, 9842 MAIN STREET, SUITE 3 BERLIN, MD 21811			
				SCALE: 1" = 50'				DATE: AUG. 2012				DRAWING No.: 231-03-007			
												SHEET No.: 7 of 13			



FORCE MAIN AS-BUILTS - JULY 2014

- NOTES:**
 1. CONNECT 8" G.S. TO EXISTING STRUCTURE. USE LINK SEAL AND NON-SHRINK GROUT IN CORE DRILLED HOLE.

THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY WATER AND WASTEWATER SERVICES DIRECTOR WO. CO., WATER & WASTEWATER SERVICES		DESIGNED BY: LCS	DRAWN BY: MG	CHECKED BY: JWS3	PUMP STATION SITE PLAN OCEAN DOWNS VLT AND RACETRACK PUBLIC SEWER EXTENSION TAX MAP 21, PARCEL 99 TENTH TAX DISTRICT BERLIN WORCESTER COUNTY MARYLAND J. W. SALM ENGINEERING, INC. P.O. BOX 397, 9842 MAIN STREET, SUITE 3 BERLIN, MD 21811	
THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY DEPARTMENT OF PUBLIC WORKS. DIRECTOR WO. CO., DEPARTMENT OF PUBLIC WORKS		JOHNS W. SALM, III REVISIONS 1. 04/25/13 4. 05/20/13 5. 02/12/14				
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 19731 EXPIRATION DATE: 08/03/2014		MARYLAND PROFESSIONAL ENGINEER LICENSE No.: 19731				
		SCALE:	DATE:	DRAWING No.:		SHEET No.:
		1" = 10'	AUG. 2012	231-03-008		8 of 13



NOTES:

- DISPOSAL PUMPS & MOTORS SHALL BE AN INTEGRAL UNIT, GOULDS MODEL 388D3, WS3012D3, 230V, 3 HP, 1 PHASE, 60 HZ. PUMP SHALL BE CAPABLE OF SUPPLYING 170 GPM AGAINST A TOTAL DYNAMIC HEAD OF 40 FEET (WHICH INCLUDES A MAXIMUM STATIC LIFT OF 2.5 FEET). PUMP SHALL BE A SUBMERSIBLE SEWAGE PUMP, CAPABLE OF PASSING A 3" SOLID WITH A CAST IRON, SEMI-OPEN, DYNAMICALLY BALANCED, IMPELLER RUNNING ON MECHANICAL SEALS IN A CAST IRON VOLUTE. MOTOR SHALL BE OIL FILLED, 3 HP AND OVERLOAD PROTECTION SHALL BE PROVIDED IN THE CONTROL PANEL. STARTER UNIT, PUMP AND MOTOR SHALL BE CAPABLE OF OPERATING DRY WITHOUT DAMAGE TO THE COMPONENTS.
- GUIDE RAILS SHALL BE SCH 40, STAINLESS STEEL PIPE.
- FITTINGS SHALL BE SCH 40, PVC, SOLVENT WELDED.
- REMOVE AND ABANDON EIGHT EXISTING SEWAGE PUMPS. REUSE THREE NEWEST SEWAGE PUMPS. CLEAN AND DELIVER ABANDONED PUMPS TO WORCESTER COUNTY, OCEAN PINES WASTEWATER TREATMENT PLANT. SEE ELECTRICAL PLANS FOR ELECTRICAL ABANDONMENT AND REUSE REQUIREMENTS.
- FUTURE CONNECTIONS TO THIS PUMP STATION WILL REQUIRE A NEW HYDRAULIC ANALYSIS AND MAY REQUIRE AN UPGRADE TO THE PUMPS.

THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY WATER AND WASTEWATER SERVICES

DIRECTOR
 WO. CO., WATER & WASTEWATER SERVICES

THE WATER AND/OR SEWER FACILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS ARE APPROVED BY WORCESTER COUNTY DEPARTMENT OF PUBLIC WORKS.

DIRECTOR
 WO. CO., DEPARTMENT OF PUBLIC WORKS

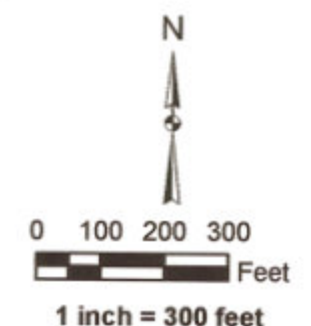
FORCE MAIN AS-BUILTS - JULY 2014

DESIGNED BY: JWS3	DRAWN BY: JWS3	CHECKED BY: JWS3
REVISIONS		
04/25/13		
05/20/13		
02/12/14		

PUMP STATION PLAN & SECTION
OCEAN DOWNS VLT AND RACETRACK PUBLIC SEWER EXTENSION
 THIRD TAX DISTRICT WORCESTER COUNTY MARYLAND
J. W. SALM ENGINEERING, INC.
 P.O. BOX 397, 9842 MAIN STREET, SUITE 3
 BERLIN, MD 21811

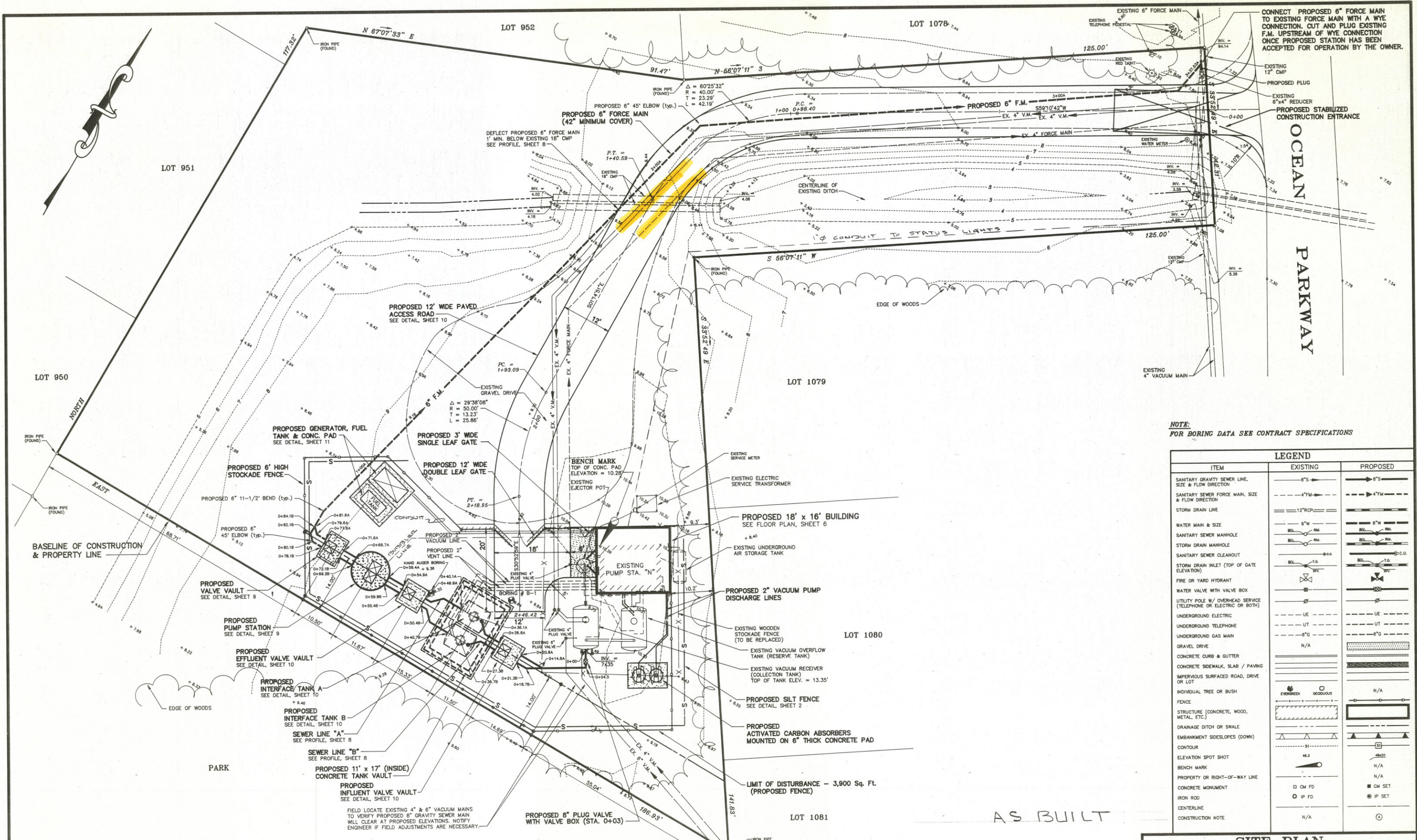
SCALE: AS SHOWN DATE: AUG. 2012 DRAWING No.: 231-01-009 SHEET No.: 9 of 13

MARYLAND PROFESSIONAL ENGINEER LICENSE NO. 19721



sde.WORCESTER.SewerValves	
VALVETYPE	
[Symbol]	Air Release Valve
[Symbol]	Backflow Control Valve
[Symbol]	Ball and Check Valve
[Symbol]	Blow Off, Blow Off Hydrant
[Symbol]	Combination Air/Vacuum Valve
[Symbol]	Cut Off Valve
[Symbol]	Division Valve
[Symbol]	Gate Valve, Gate Valve w/Box
[Symbol]	Hose Bibb
[Symbol]	Hydrant Valve
[Symbol]	Isolation Valve
[Symbol]	Plug
[Symbol]	Spigot
[Symbol]	Valve
[Symbol]	Yard Hydrant
sde.WORCESTER.SewerManholes	
[Symbol]	Sewer Manhole
sde.WORCESTER.SewerFittings	
FITTINGTYPE	
[Symbol]	Bend, Elbow
[Symbol]	Cap
[Symbol]	Cross
[Symbol]	Hydrant
[Symbol]	Increase, Reducer
[Symbol]	Junction Box
[Symbol]	Rigid Adapter Coupling
[Symbol]	Saddle
[Symbol]	Tap
[Symbol]	Tee
[Symbol]	Unspecified Fitting
[Symbol]	WYE
sde.WORCESTER.SewerFacilities	
STATIONTYPE	
[Symbol]	Elevated Water Tower
[Symbol]	Lift Station - change color
[Symbol]	Maintenance Tank
[Symbol]	Outfall Station
[Symbol]	Pump Station
[Symbol]	Storage Tank
[Symbol]	Vacuum-Collection Station
[Symbol]	Wastewater Treatment Plant
[Symbol]	Water Treatment Plant
[Symbol]	Well
[Symbol]	Well Station, Wet Well
[Symbol]	Force Main
sde.WORCESTER.SewerConnectorLines	
[Symbol]	Sewer Connector Lines

This map is intended for planning purposes only and not for regulatory application.
 Source: Aerial Imagery, Maryland Department of Natural Resources, March 2008.
 Map Prepared On: March 10, 2010.



CONNECT PROPOSED 6" FORCE MAIN TO EXISTING FORCE MAIN WITH A WYE CONNECTION. CUT AND PLUG EXISTING F.M. UPSTREAM OF WYE CONNECTION ONCE PROPOSED STATION HAS BEEN ACCEPTED FOR OPERATION BY THE OWNER.

NOTE:
FOR BORING DATA SEE CONTRACT SPECIFICATIONS

LEGEND		
ITEM	EXISTING	PROPOSED
SANITARY GRAVITY SEWER LINE, SIZE & FLOW DIRECTION	8" S	8" S
SANITARY SEWER FORCE MAIN, SIZE & FLOW DIRECTION	4" FM	4" FM
STORM DRAIN LINE	12" RCP	12" RCP
WATER MAIN & SIZE	6" W	6" W
SANITARY SEWER MANHOLE	RM	RM
STORM DRAIN MANHOLE	RM	RM
SANITARY SEWER CLEANOUT	C.O.	C.O.
STORM DRAIN INLET (TOP OF GATE ELEVATION)	T.G.	T.G.
FIRE OR YARD HYDRANT	HY	HY
WATER VALVE WITH VALVE BOX	VB	VB
UTILITY POLE W/ OVERHEAD SERVICE (TELEPHONE OR ELECTRIC OR BOTH)	U	U
UNDERGROUND ELECTRIC	UE	UE
UNDERGROUND TELEPHONE	UT	UT
UNDERGROUND GAS MAIN	UG	UG
GRAVEL DRIVE	N/A	GRAVEL DRIVE
CONCRETE CURB & GUTTER	N/A	CONCRETE CURB & GUTTER
CONCRETE SIDEWALK, SLAB / PAVING	N/A	CONCRETE SIDEWALK, SLAB / PAVING
IMPERVIOUS SURFACED ROAD, DRIVE OR LOT	N/A	IMPERVIOUS SURFACED ROAD, DRIVE OR LOT
INDIVIDUAL TREE OR BUSH	TR	TR
FENCE	N/A	FENCE
STRUCTURE (CONCRETE, WOOD, METAL, ETC.)	N/A	STRUCTURE (CONCRETE, WOOD, METAL, ETC.)
DRAINAGE DITCH OR SWALE	N/A	DRAINAGE DITCH OR SWALE
EMBANKMENT SIDESLOPES (DOWN)	N/A	EMBANKMENT SIDESLOPES (DOWN)
CONTOUR	51	51
ELEVATION SPOT SHOT	48.2	N/A
BENCH MARK	N/A	N/A
PROPERTY OR RIGHT-OF-WAY LINE	N/A	N/A
CONCRETE MONUMENT	CM	CM
IRON ROD	IP	IP
CENTERLINE	N/A	CENTERLINE
CONSTRUCTION NOTE	N/A	CONSTRUCTION NOTE

SITE PLAN
SCALE: 1" = 10'

REVISIONS			
NO.	DATE	ITEM	BY
1	5/11/93	REVISED AS PER COMMENTS FROM MDR. CO. SANITARY COMM. - 5/5/93	M.A.R.
2	12/13/93	INTERFACE TANK & ASSOC. PIPING LOCATION REVISED AS PER CONTRACTOR	M.A.R.
3	12/27/93	REVISE STATIONING AS PER PROFILE	M.A.R.



LAST REVISION : DEC. 27, 1993
SEWAGE SYSTEM IMPROVEMENTS
FOR
WORCESTER COUNTY
SANITARY COMMISSION
OCEAN PINES SERVICE AREA
3rd. ELECTION DISTRICT
WORCESTER COUNTY, MARYLAND

SITE PLAN
PUMP STATION "N"

CONSULTING ENGINEERS AND SURVEYORS
Andrews, Miller & Assoc., Inc.
508 MARYLAND AVENUE * CAMBRIDGE, MD. 21613
PHONE 410-228-7117 * FAX 410-228-2735

DESIGNED BY M.A.R. / G.V.M. DATE MARCH 1993
DRAWN BY M.A.R. SCALE 1" = 10'
CHECKED BY H.M.M. JOB NO. 92092-40

SHEET
6 OF 13

NO.	REVISIONS	DATE

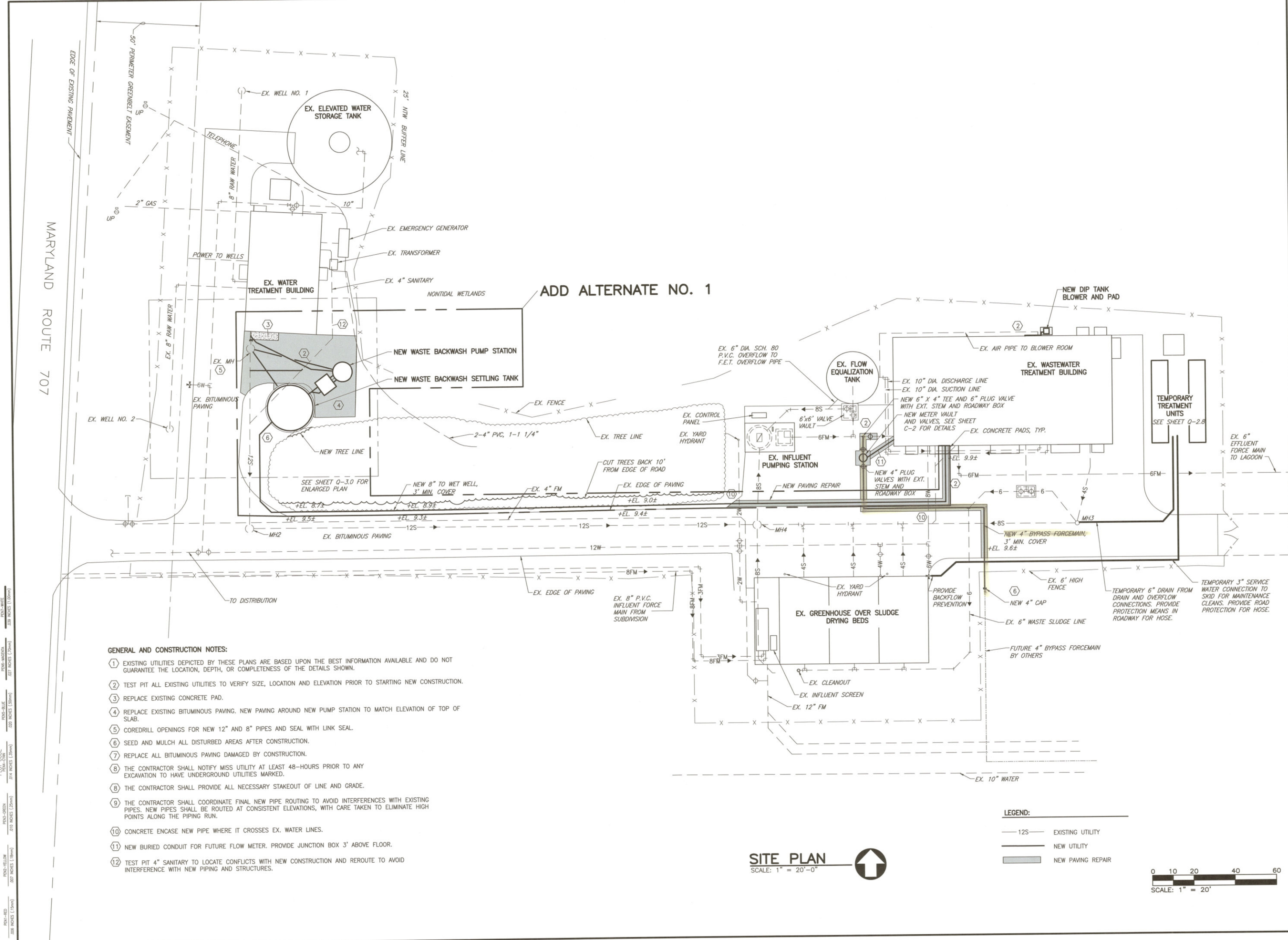
GMB
 GEORGE, MILES & BUHR, LLC
 ARCHITECTS & ENGINEERS
 SALISBURY · BALTIMORE · SEAFORD
 206 WEST MAIN STREET
 SALISBURY, MARYLAND 21801
 410-742-3115, FAX 410-548-5790
 www.gmbnet.com

RIDDLE FARM WWTP
 EQUIPMENT UPGRADES
 WORCESTER COUNTY, MARYLAND



SITE PLAN

SCALE : AS SHOWN	SHEET NO.
DESIGN BY : CSB	C-1
DRAWN BY : MND	
CHECKED BY : PAB	
DATE : SEPTEMBER 2023	



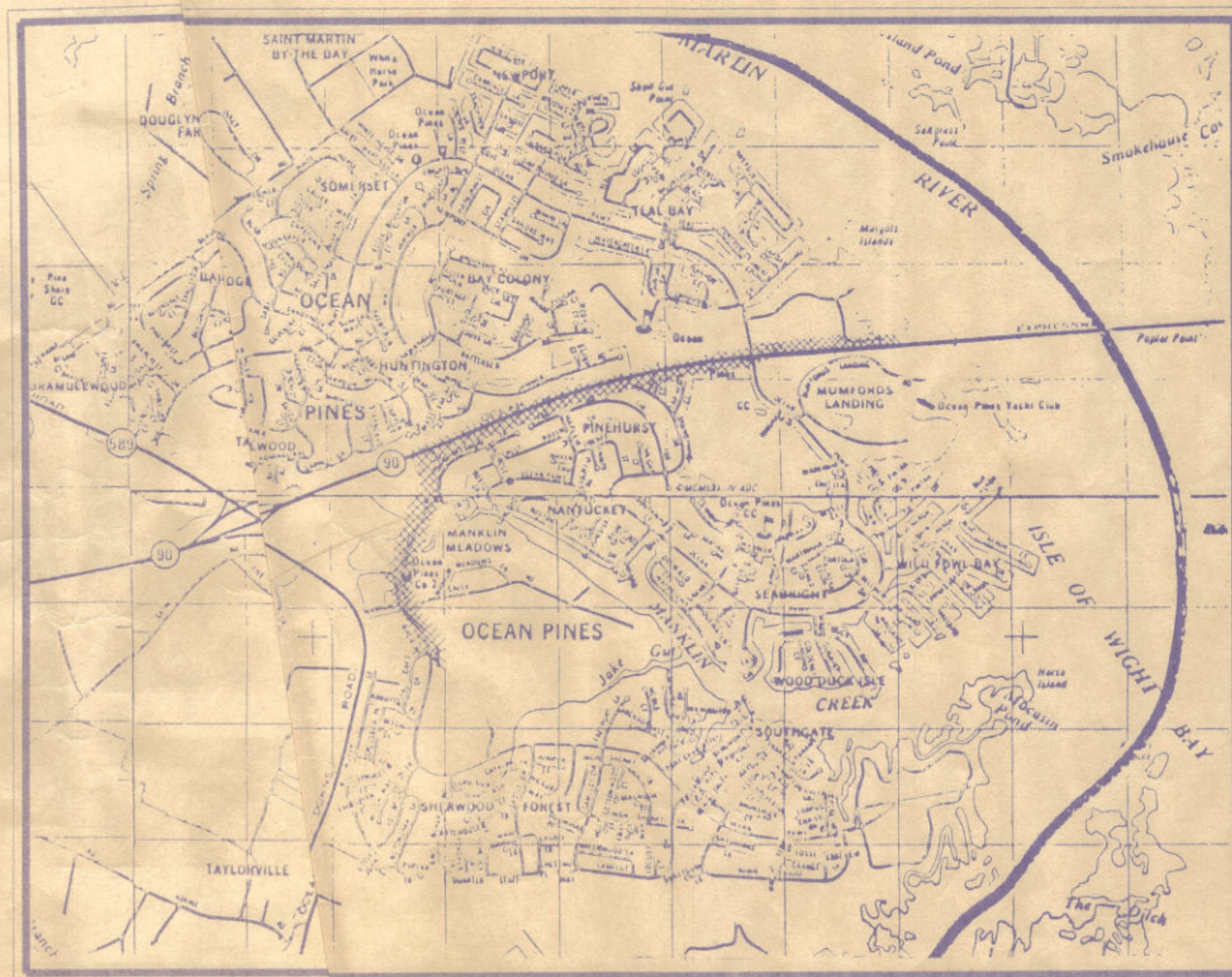
- GENERAL AND CONSTRUCTION NOTES:**
- EXISTING UTILITIES DEPICTED BY THESE PLANS ARE BASED UPON THE BEST INFORMATION AVAILABLE AND DO NOT GUARANTEE THE LOCATION, DEPTH, OR COMPLETENESS OF THE DETAILS SHOWN.
 - TEST PIT ALL EXISTING UTILITIES TO VERIFY SIZE, LOCATION AND ELEVATION PRIOR TO STARTING NEW CONSTRUCTION.
 - REPLACE EXISTING CONCRETE PAD.
 - REPLACE EXISTING BITUMINOUS PAVING. NEW PAVING AROUND NEW PUMP STATION TO MATCH ELEVATION OF TOP OF SLAB.
 - COREDRIILL OPENINGS FOR NEW 12" AND 8" PIPES AND SEAL WITH LINK SEAL.
 - SEED AND MULCH ALL DISTURBED AREAS AFTER CONSTRUCTION.
 - REPLACE ALL BITUMINOUS PAVING DAMAGED BY CONSTRUCTION.
 - THE CONTRACTOR SHALL NOTIFY MISS UTILITY AT LEAST 48-HOURS PRIOR TO ANY EXCAVATION TO HAVE UNDERGROUND UTILITIES MARKED.
 - THE CONTRACTOR SHALL PROVIDE ALL NECESSARY STAKEOUT OF LINE AND GRADE.
 - THE CONTRACTOR SHALL COORDINATE FINAL NEW PIPE ROUTING TO AVOID INTERFERENCES WITH EXISTING PIPES. NEW PIPES SHALL BE ROUTED AT CONSISTENT ELEVATIONS, WITH CARE TAKEN TO ELIMINATE HIGH POINTS ALONG THE PIPING RUN.
 - CONCRETE ENCASE NEW PIPE WHERE IT CROSSES EX. WATER LINES.
 - NEW BURIED CONDUIT FOR FUTURE FLOW METER. PROVIDE JUNCTION BOX 3' ABOVE FLOOR.
 - TEST PIT 4" SANITARY TO LOCATE CONFLICTS WITH NEW CONSTRUCTION AND REROUTE TO AVOID INTERFERENCE WITH NEW PIPING AND STRUCTURES.

PLOT CODE: 504 INCHES (1:2000)
 PLOT AREA: 400 INCHES (1:2000)
 PLOT PERIMETER: 500 INCHES (1:2000)
 PLOT MARGIN: 200 INCHES (1:2000)

AS-BUILTS SECTION 16 PUMPING STATION AND FORCE MAIN

FOR SOUTH OCEAN PINES SERVICE AREA OCEAN PINES, WORCESTER COUNTY, MARYLAND

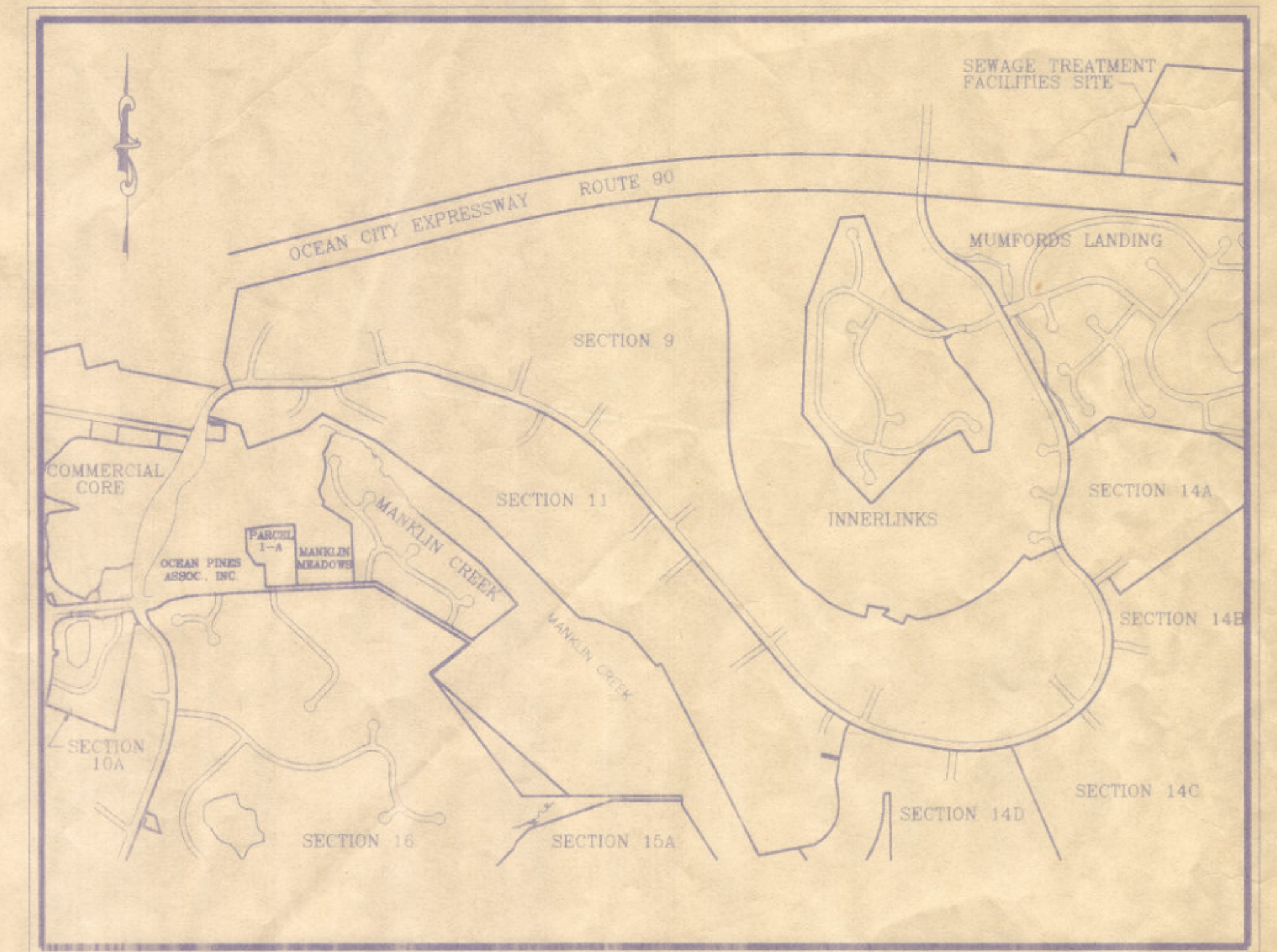
JUNE, 1996



VICINITY MAP SCALE: 1" = 2000 FT.

INDEX OF DRAWINGS

- | | |
|--------|-----------------|
| 1 | KEY PLAN |
| 2 - 10 | FORCE MAIN PLAN |
| 11 | SITE PLAN |
| 12 | PUMPING STATION |



LOCATION MAP NOT TO SCALE

PROJECT NUMBER 93-095/95-100

PREPARED BY

SOULÉ
& ASSOCIATES ENGINEERING / SURVEYING / PLANNING

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ARLINGTON BUSINESS CENTER
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(410) 742-7797

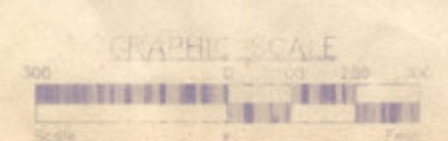


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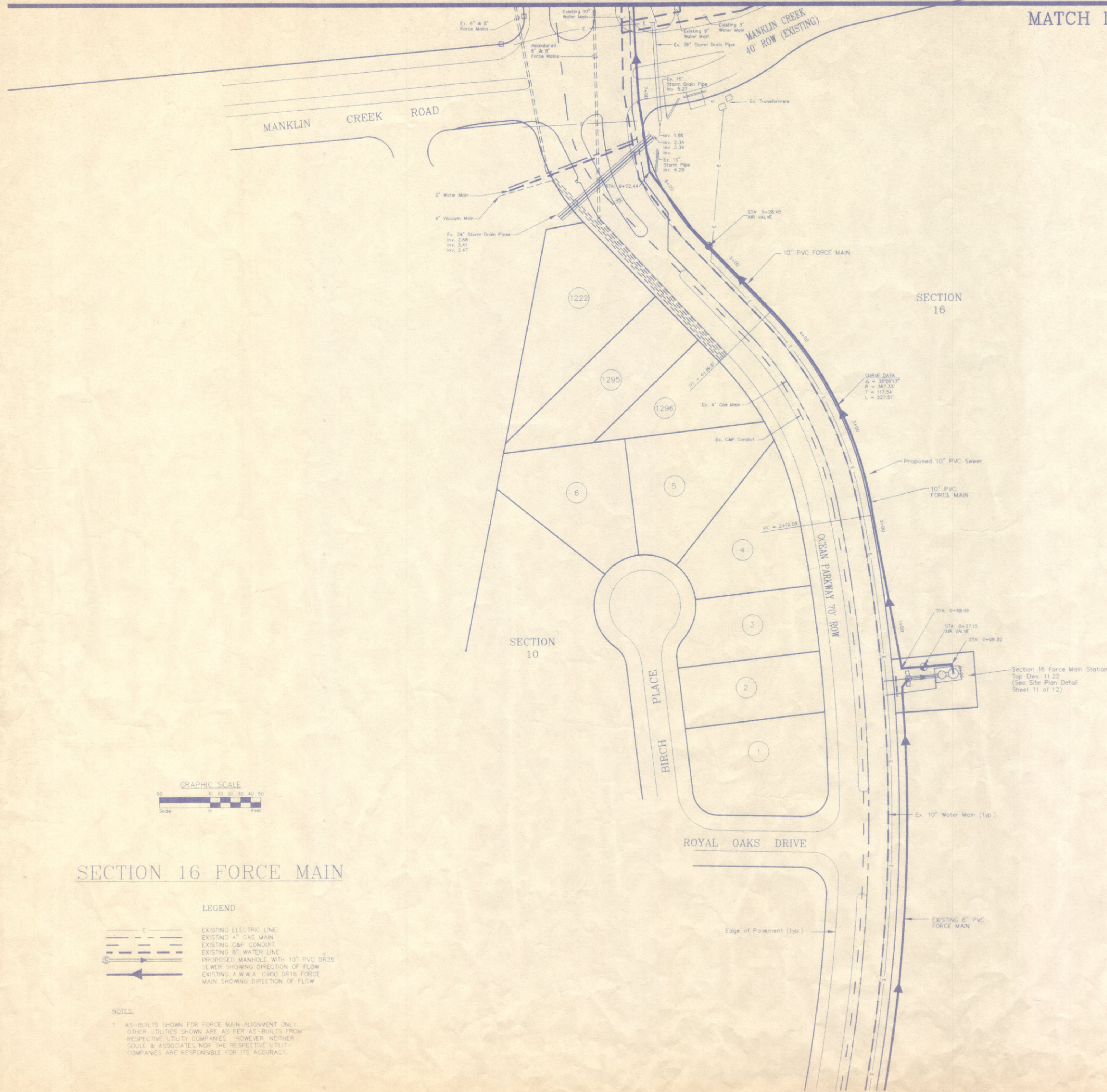
AS-BUILTS
 SECTION 16 FORCE MAIN KEY PLAN
 SOUTH OCEAN PINES SERVICE AREA
 OCEAN PINES, WORCESTER COUNTY, MARYLAND

Surveyed By D. EVANS
Drawn By M.P.B./M.C.B./V.H.
Date MAY 1996
Job No. 93-095/95-100
Drawing File No. 93095AB1
Sheet No. 1 OF 12



SEE SHEET 3 OF 12

MATCH LINE



SECTION 16 FORCE MAIN

LEGEND

- EXISTING ELECTRIC LINE
- EXISTING 4" GAS MAIN
- EXISTING CAP CONDUIT
- EXISTING 8" WATER LINE
- PROPOSED MANHOLE WITH 10" PVC DR35
- SEWER SHOWING DIRECTION OF FLOW
- EXISTING A.W.W.A. C900 DR18 FORCE MAIN SHOWING DIRECTION OF FLOW

NOTES

1. AS-BUILTS SHOWN FOR FORCE MAIN ALIGNMENT ONLY. OTHER UTILITIES SHOWN ARE AS PER AS-BUILTS FROM RESPECTIVE UTILITY COMPANIES. HOWEVER, NEITHER SOULÉ & ASSOCIATES NOR THE RESPECTIVE UTILITY COMPANIES ARE RESPONSIBLE FOR ITS ACCURACY.

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Drawn By L.V.H.
Date JUNE 1996
Job No. 93-095/95-100
Drawing File No. 93095AB2
Sheet No.

SEE SHEET 4 OF 12

MATCH LINE



MATCH LINE
SEE SHEET 2 OF 12

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SECTION 16 FORCE MAIN
SOUTH OCEAN PINES SERVICE AREA
OCEAN PINES, WORCESTER COUNTY, MARYLAND

Surveyed By
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Drawn By
M.P.B./M.C.B./L.V.H.
Date
MAY 1996
Job No.
93-095/95-100
Drawing File No.
93095AB3
Sheet No.
3 OF 12

SEE SHEET 5 OF 12

MATCH LINE



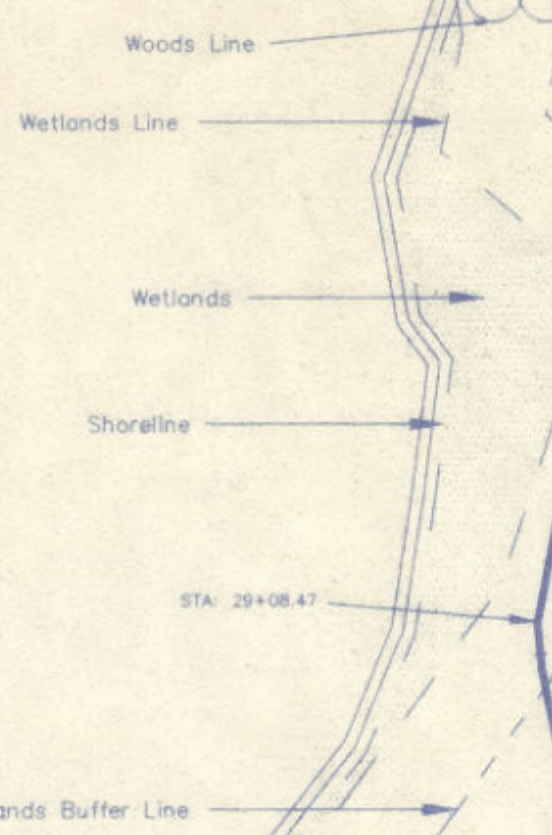
LANDS N/F OF 589 CORPORATION

LANDS N/F OF CHOPTANK ELECTRIC COOP, INC.

LANDS N/F OF 589 CORPORATION

PROPOSED CATHELL ROAD EXTENSION

LAKE



MANKLIN CREEK

EXISTING STATION J

STA: 20+87.38 AIR VALVE

STA: 20+87.38

STA: 20+87.38

STA: 20+87.38

STA: 20+87.38

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STA: 20+87.38

STA: 20+87.38

STA: 20+87.38

STA: 20+87.38

Abandoned 4" Force Main

Ex. 6" & 8" Force Mains

Ex. 10" Water Main (typ)

Edge of Pavement (typ)

Ex. 15" Storm Drain Pipe

Ex. 18" Storm Drain Pipe

Ex. 15" Storm Drain Pipe

10" PVC Force Main

STA: 24+37.85

Ex. 4" & 8" Vacuum Mains

Ex. 60" Storm Drain Pipes

STA: 27+47.29

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OFFSHORE LANE

OCEAN PARKWAY

ALDEN COURT

SECTION 9

SECTION 11

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SALISBURY, MARYLAND 21801
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Table with 2 columns: Date, Issued for

AS-BUILTS
SECTION 16 FORCE MAIN
SOUTH OCEAN PINES SERVICE AREA
OCEAN PINES, WORCESTER COUNTY, MARYLAND

Surveyed By: D. EVANS
Drawn By: M.P.B./M.C.B./L.V.H.
Date: MAY 1996
Job No: 93-095/95-100
Drawing File No: 93095AR4
Sheet No: 4 OF 12

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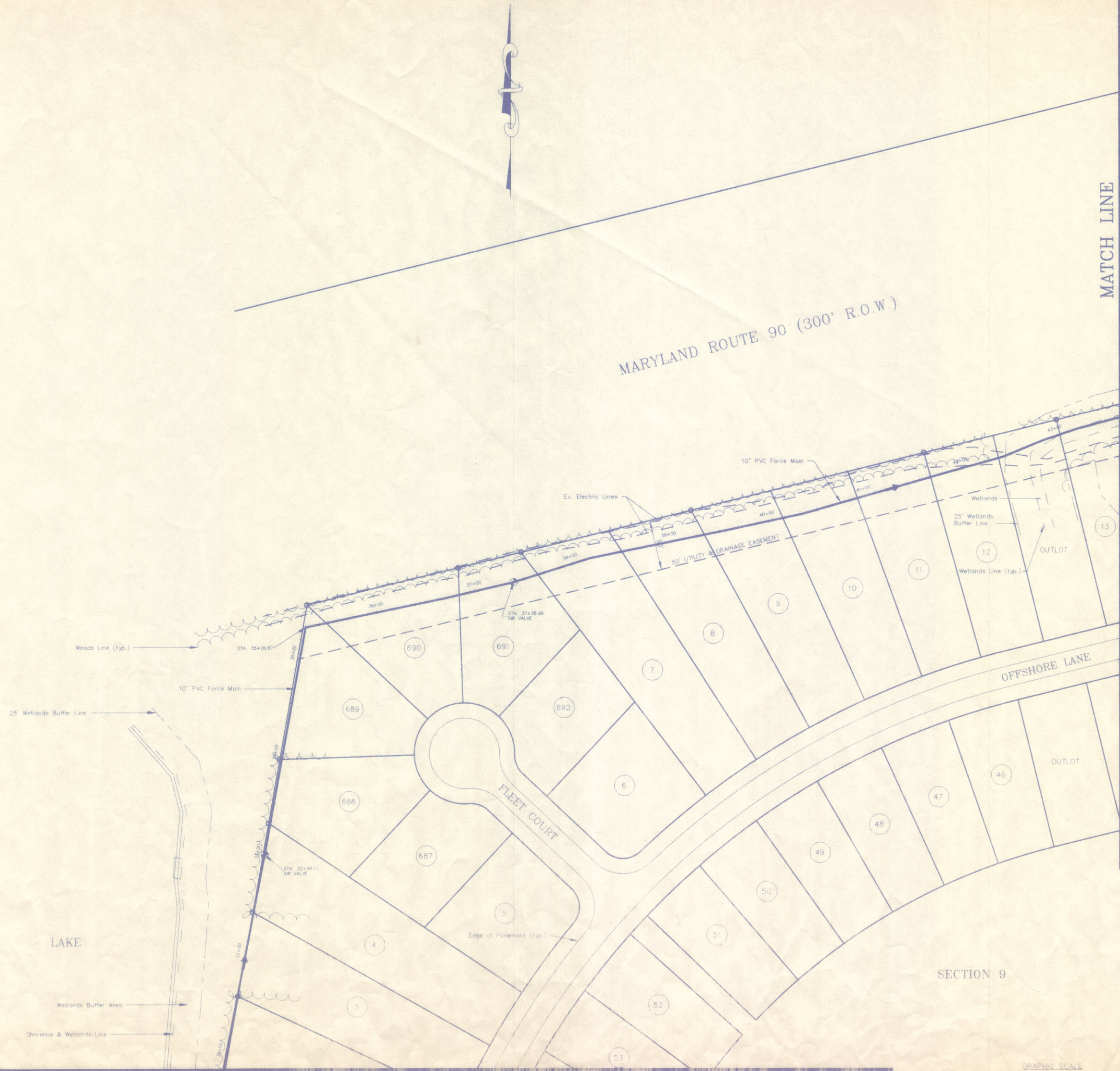


MATCH LINE
SEE SHEET 3 OF 12

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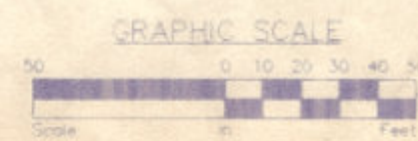
LANDS N/F OF 589 CORPORATION

LAKE

SECTION 9

MATCH LINE

SEE SHEET 4 OF 12



Scale: 1" = 20' Date: 7/2/96

MATCH LINE
SEE SHEET 6 OF 12

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SECTION 16 FORCE MAIN
SOUTH OCEAN PINES SERVICE AREA
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Drawn By
M.P.B./M.C.B./L.V.H.
Date
MAY 1996
Job No.
93-095/95-100
Drawing File No.
93095AB5
Sheet No.

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SEE SHEET 5 OF 12

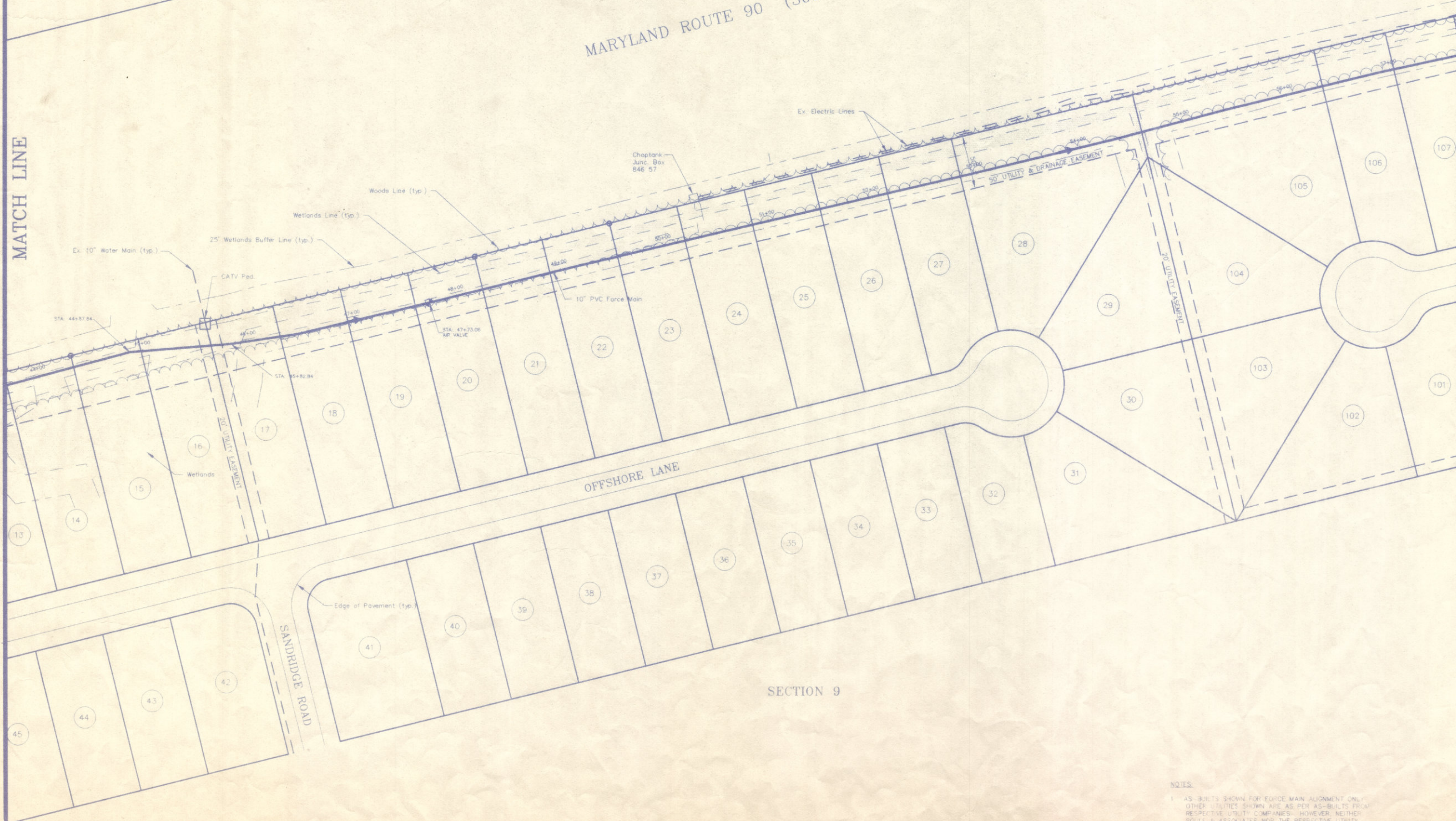
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MARYLAND ROUTE 90 (300' R.O.W.)

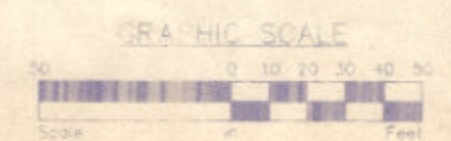
MATCH LINE

SEE SHEET 7 OF 12



SECTION 9

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MAY 1996
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93095A96
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6 OF 12

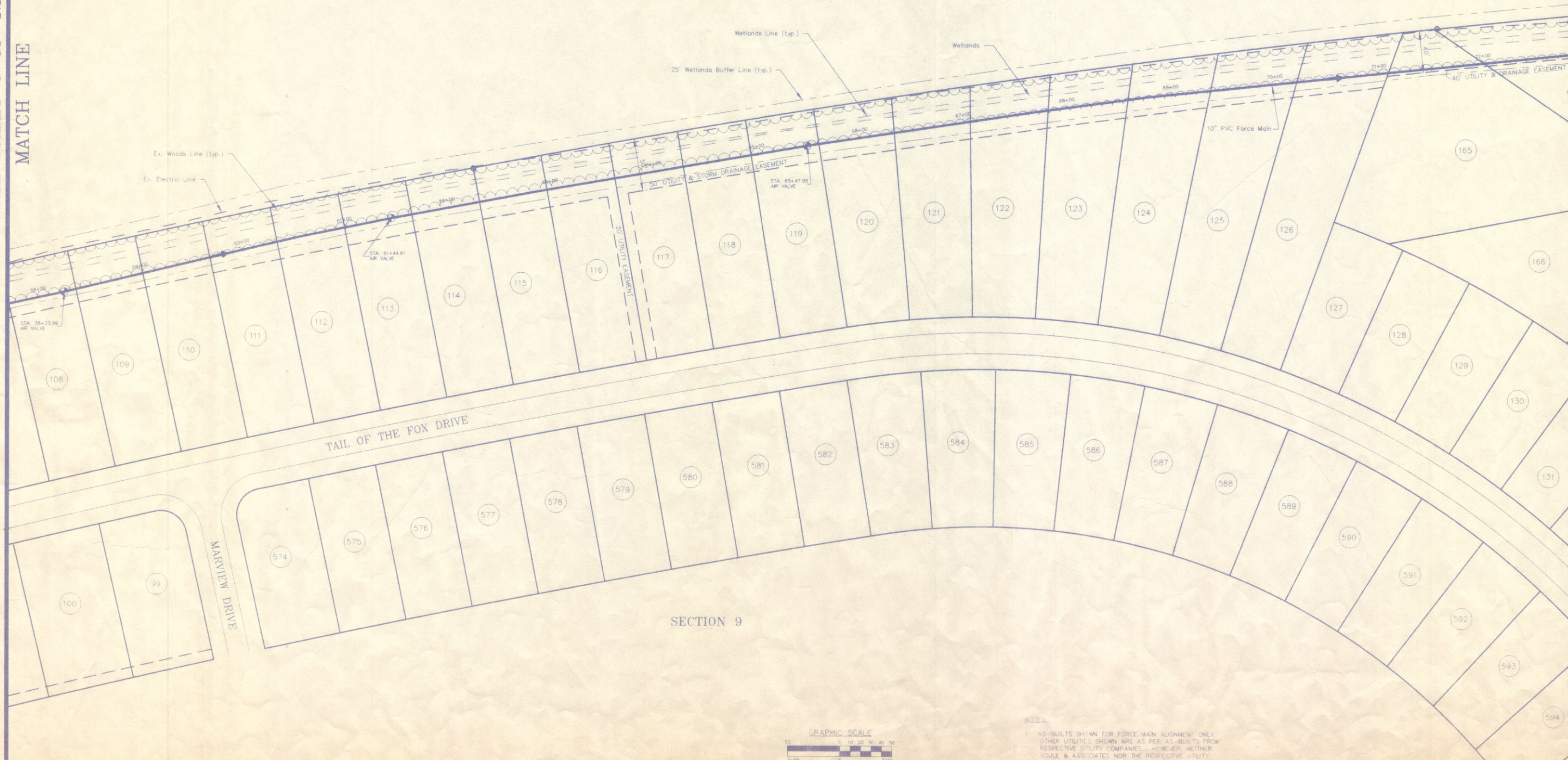
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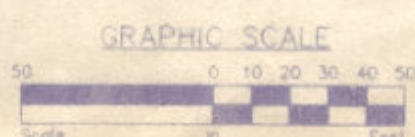
SEE SHEET 6 OF 12
MATCH LINE

MATCH LINE
SEE SHEET 8 OF 12

MARYLAND ROUTE 90 (300' R.O.W.)



SECTION 9



NOTES:

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 OCEAN PINES, WORCESTER COUNTY, MARYLAND

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Drawn By
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Date
MAY 1996

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93095AB7

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Date Plotted: 7/3/96

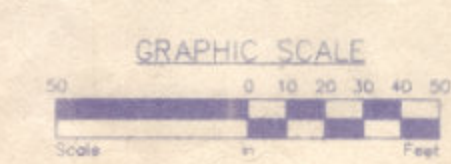
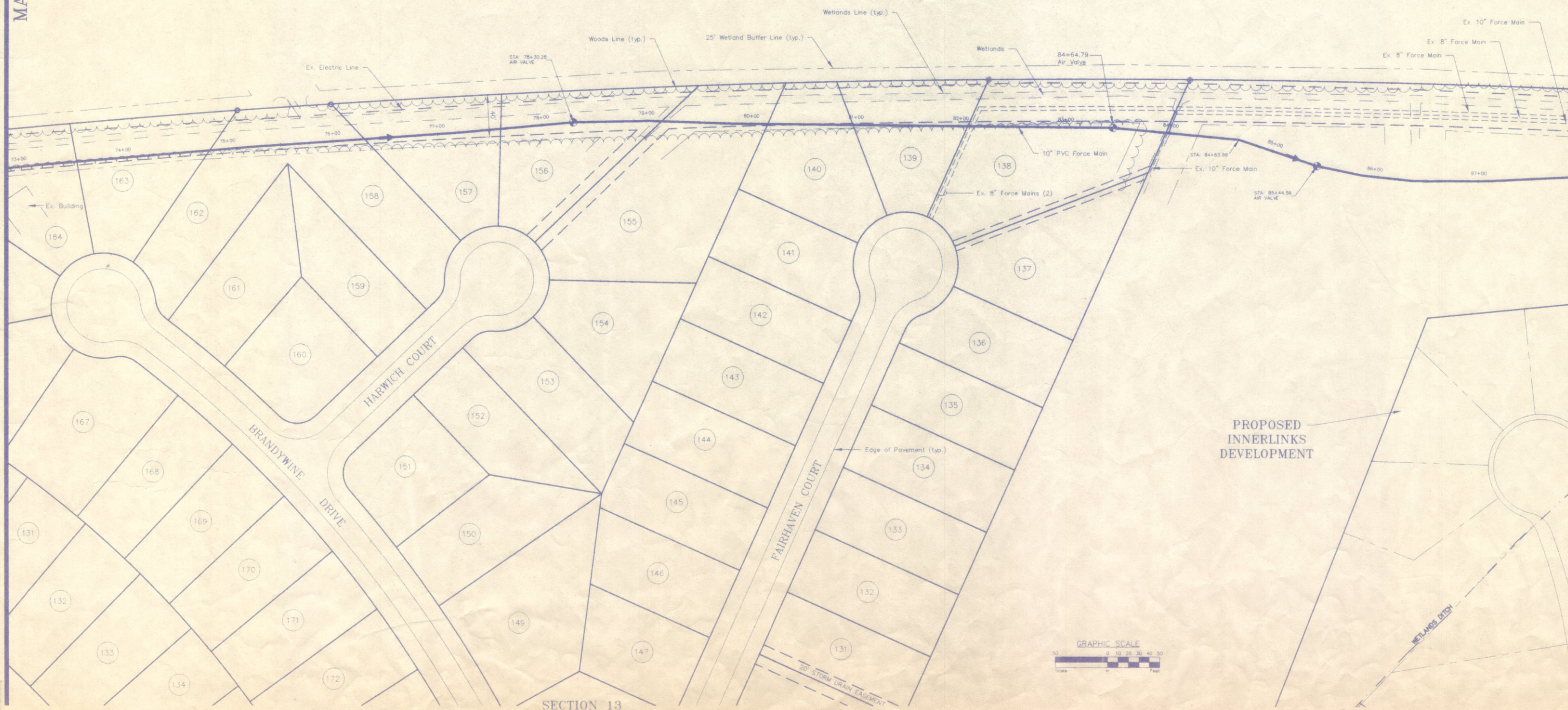
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SEE SHEET 7 OF 12
MATCH LINE

MATCH LINE
SEE SHEET 9 OF 12

MARYLAND ROUTE 90 (300' R.O.W.)



SECTION 13

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Date
JUNE 1996
Job No.
93-095/95-100
Drawing File No.
93095AB8
Sheet No.

SEE SHEET 8 OF 12

MATCH LINE

SECTION 4

OCEAN PARKWAY

EASEMENT TO SEWAGE TREATMENT PLANT (MINIMUM WIDTH 50')

RESERVED FOR FUTURE DEVELOPMENT



Woods Line (typ.)

Wetlands Line (typ.)

Wetlands

Dirt Road

Reed Line

MARYLAND ROUTE 90 (300' R.O.W.)

MATCH LINE

SEE SHEET 10 OF 12

SECTION 13

PROPOSED MUMFORDS LANDING DEVELOPMENT

PROPOSED INNERLINKS DEVELOPMENT

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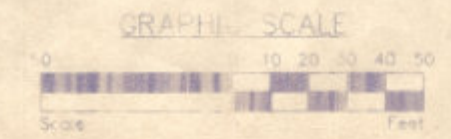
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93-095/05-100
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93095AB9
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9 OF 12

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SEE SHEET 9 OF 12
MATCH LINE

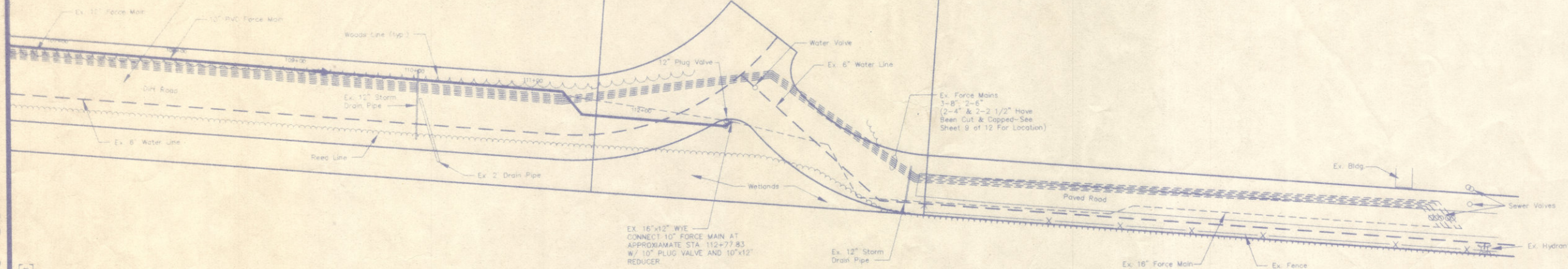
RESERVED FOR
FUTURE DEVELOPMENT

BUFFER
ZONE

BUFFER
ZONE

EASEMENT TO
SEWAGE TREATMENT PLANT
MINIMUM WIDTH 50'

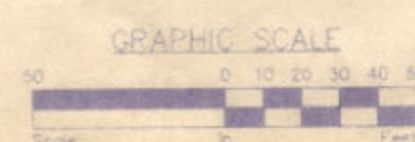
EXISTING
SEWAGE TREATMENT
PLANT AREA



MARYLAND ROUTE 90 (300' R.O.W.)

EX. 16"x12" WYE
CONNECT 10" FORCE MAIN AT
APPROXIMATE STA. 112+77.83
W/ 10" PLUG VALVE AND 10"x12"
REDUCER

EX. FORCE MAINS
1-8", 2-6"
(2-4" & 2-2 1/2" HAVE
BEEN CUT & COPPED-SEE
SHEET 9 OF 12 FOR LOCATION)



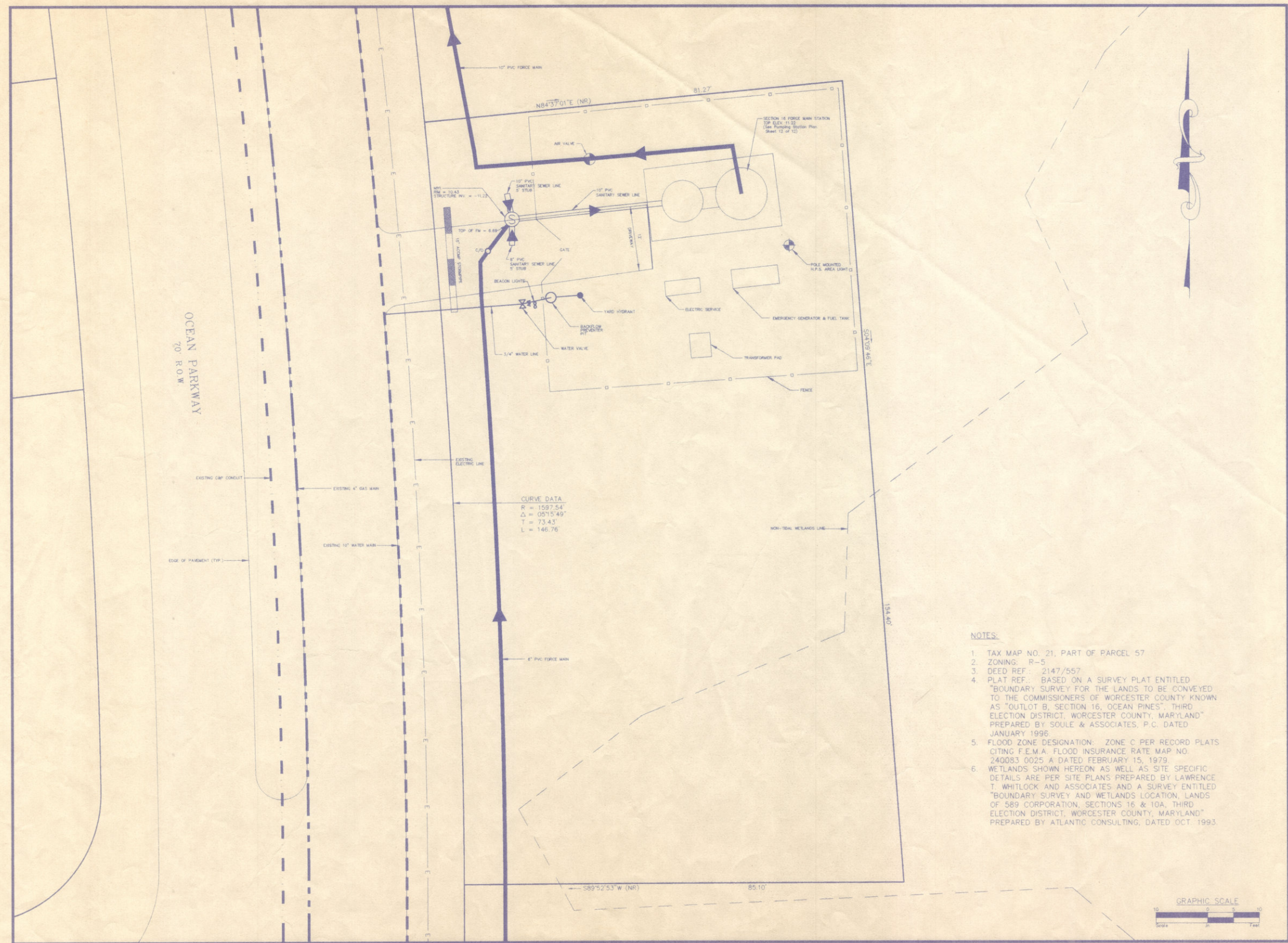
NOTE:
AS-BUILTS SHOWN FOR FORCE MAIN & EASEMENT ON
OWNER UTILITIES DRAWING. WEAS PER A SERVICE TEAM
RESPECTIVE UTILITY COMPANIES. HOWEY, NORTON,
SOULE & ASSOCIATES, P.C. THE RESPECTIVE UTILITY
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OCEAN PINES, WORCESTER COUNTY, MARYLAND

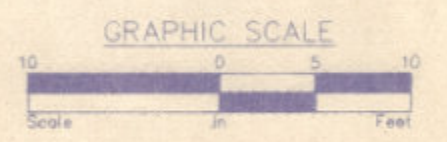
Surveyed By
D. EVANS
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M.P.B./M.C.B./L.V.H.
Date
JUNE 1996
Job No.
93-095/95-100
Drawing File No.
93095ABD
Sheet No.



SITE PLAN – OUTLOT B
SECTION 16
WASTEWATER PUMPING STATION

NOTES:

1. TAX MAP NO. 21, PART OF PARCEL 57
2. ZONING: R-5
3. DEED REF.: 2147/557
4. PLAT REF.: BASED ON A SURVEY PLAT ENTITLED "BOUNDARY SURVEY FOR THE LANDS TO BE CONVEYED TO THE COMMISSIONERS OF WORCESTER COUNTY KNOWN AS "OUTLOT B, SECTION 16, OCEAN PINES", THIRD ELECTION DISTRICT, WORCESTER COUNTY, MARYLAND" PREPARED BY SOULE & ASSOCIATES, P.C. DATED JANUARY 1996.
5. FLOOD ZONE DESIGNATION: ZONE C PER RECORD PLATS CITING F.E.M.A. FLOOD INSURANCE RATE MAP NO. 240083 0025 A DATED FEBRUARY 15, 1979.
6. WETLANDS SHOWN HEREON AS WELL AS SITE SPECIFIC DETAILS ARE PER SITE PLANS PREPARED BY LAWRENCE T. WHITLOCK AND ASSOCIATES AND A SURVEY ENTITLED "BOUNDARY SURVEY AND WETLANDS LOCATION, LANDS OF 589 CORPORATION, SECTIONS 16 & 10A, THIRD ELECTION DISTRICT, WORCESTER COUNTY, MARYLAND" PREPARED BY ATLANTIC CONSULTING, DATED OCT. 1993.



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REVISIONS	Date	Issued for

AS-BUILTS
SITE PLAN – SECTION 16 MAIN PUMP STATION
SOUTH OCEAN PINES SERVICE AREA
OCEAN PINES, WORCESTER COUNTY, MARYLAND

Surveyed By	D. EVANS
Drawn By	LVH
Date	JUNE 1996
Job No.	93-095/95-100
Drawing File No.	93095ABS
Sheet No.	11 OF 12