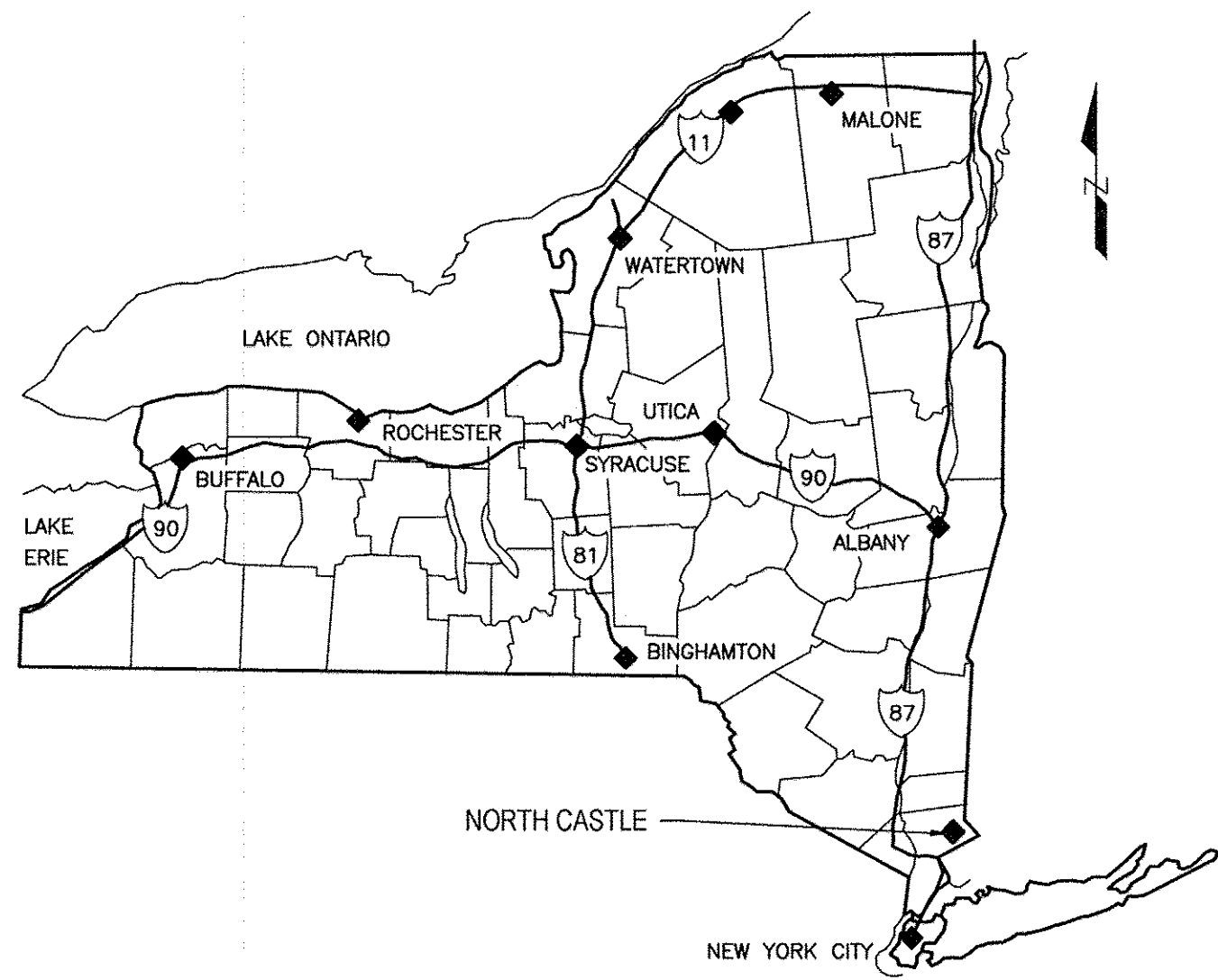


TOWN OF NORTH CASTLE, NEW YORK

WATER DISTRICT NO. 2

DISTRIBUTION SYSTEM REPLACEMENT

GHD PROJECT NO.: 86-16265



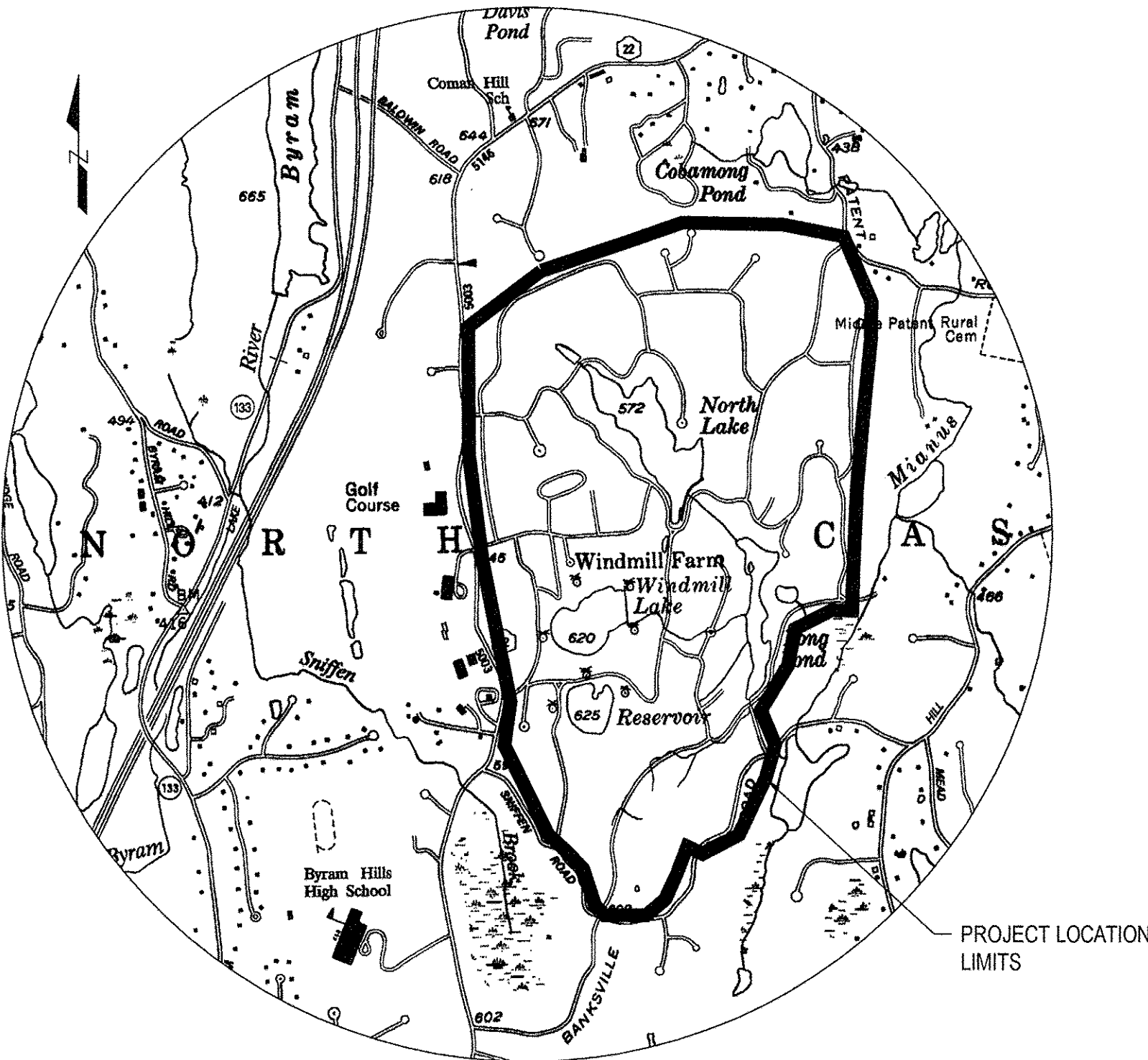
TOWN LOCATION MAP
NOT TO SCALE

TOWN OF NORTH CASTLE OFFICIALS

MICHAEL J. SCHILIRO SUPERVISOR

STEPHEN D'ANGELO, COUNCILMAN
BARBARA W. DIGIACINTO, COUNCILMAN
BARRY S. REITER, COUNCILMAN
JOSÉ L. BERRA, COUNCILMAN

SAL MISITI, DIRECTOR OF WATER & SEWER OPERATIONS



PROJECT LOCATION PLAN
NOT TO SCALE

				NOTES: UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.						 GHD Consulting Services Inc. One Remington Park Drive Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5801 E cazmail@ghd.com W www.ghd.com		Drawn JBA Designer JBA		Client TOWN OF NORTH CASTLE, NEW YORK	
										Drafting Check JBA Design Check JSS		Project WD NO. 2 - DISTRIBUTION SYSTEM REPLACEMENT			
										Approved (Project Director) <i>Kevin Chou</i> Date		Title COVER SHEET			
										Scale AS SHOWN		Contract No. 1			
										This Drawing shall not be used for Construction unless Signed and Sealed For Construction		Original Size Ansi D Drawing No: 86-16265-G001			
												Rev: 0			

0 FOR CONSTRUCTION JBA JSS KC 05/14

No Revision Note: * indicates signatures on original issue of drawing or last revision of drawing Drawn Job Manager Project Director Date

Plot Date: 9 May 2014 - 1:36 AM Plotted by: Joseph Awald Cad File No: G:\8616265\CADD\Drawings\Civil\86-16265-G001.dwg

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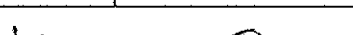


2. ALL MATERIALS USED AND CONSTRUCTED METHODS EMPLOYED ARE TO BE IN ACCORDANCE WITH THE LATEST TOWN OF NORTH CASTLE, NEW YORK REGULATIONS AND THESE CONTRACT DOCUMENTS. PIPING SHALL BE DUCTILE IRON PIPE (DIP) CL 52, 8-INCH AND 12-INCH WHERE NOTED.
3. CONTRACTOR TO HAVE STAKED OUT ALL UTILITIES PRIOR TO CONSTRUCTION LOCATED AND MARKED BY DIG SAFELY NEW YORK.
4. APPROXIMATE LOCATION OF MAINLINE UTILITIES AND EXISTING WATERMAINS ARE SHOWN ON DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMING LOCATION AND DEPTH OF ALL UTILITIES. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR DETERMINING LOCATION AND DEPTH OF INDIVIDUAL SERVICES, NOT SHOWN.
5. ALL DEPTHS OF UTILITIES SHOWN IN PROFILES ARE APPROXIMATE. CONTRACTOR SHALL CONFIRM DEPTHS PRIOR TO INSTALLATION OF WATERMAIN.
6. CONTRACTOR SHALL EXCAVATE A TEST PIT OVER ALL EXISTING UTILITY CROSSINGS PRIOR TO INSTALLING ANY NEW PIPING TO VERIFY EXISTING HORIZONTAL LOCATIONS AND VERTICAL ELEVATIONS TO ASSURE NO CONFLICT WITH NEW PIPING. THIS WORK SHALL BE PROVIDED AS PART OF THE WATERMAIN UNIT PRICE ITEM.
7. CONTRACTOR SHALL CONTACT UTILITY COMPANIES WHEN EXCAVATING IN THE VICINITY OF EXISTING UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY EXISTING UTILITIES DAMAGED DUE TO HIS OPERATION.
8. CONTRACTOR TO SUPPORT/PROTECT EXISTING SEWER, STORM, WATER MAIN, GAS, OR ANY OTHER EXISTING UTILITIES WHERE NECESSARY, IN ACCORDANCE WITH UTILITY OWNER'S REQUIREMENTS.
9. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY INTERFERENCE WITH EXISTING UTILITIES AND THE NEW WATER SYSTEM.
10. CONTRACTOR MUST KEEP ALL WATER MAINS WITHIN RIGHT-OF-WAY UNLESS AN EASEMENT IS SHOWN. IF A CONTRACTOR NEEDS AN EASEMENT DUE TO CONFLICTS IN THE FIELD, THEY MUST NOTIFY THE OWNER AND GIVE THEM SUFFICIENT TIME TO OBTAIN THE EASEMENT. THERE SHALL BE NO CLAIMS OR ADDITIONAL COSTS ASSOCIATED WITH MOVING PIPE OR CONSTRUCTION DELAYS.
11. CONTRACTOR SHALL INSULATE WATERMAIN IF SEPARATION BETWEEN STORM SEWER PIPE/DRYWELLS IS LESS THAN FIVE FEET AS SHOWN ON DETAILS.
12. IF THE OWNER DETERMINES THAT PIPE, HYDRANTS, AND/OR VALVES NEED TO BE MOVED OR ADJUSTED IN THE FIELD PRIOR TO INSTALLATION, CONTRACTOR SHALL NOT RECEIVE ANY ADDITIONAL COMPENSATION FOR RELOCATIONS. ALL COSTS SHALL BE COVERED UNDER THE UNIT PRICE ITEMS BASED ON QUANTITY OF ACTUAL MATERIAL INSTALLED.
13. ALL WATERMAIN AND SERVICES SHALL BE INSTALLED WITH A MINIMUM OF 4'5" OF COVER.
14. IF EXCAVATION OCCURS WITHIN THE ANGLE OF REPOSE FROM EDGE OF PAVED SHOULDER FOR ANY STATE OR COUNTY ROADS, CONTRACTOR MUST SUBMIT A TRENCH SHEETING AND BRACING PLAN TO BE APPROVED BY THE ROAD OWNER.
15. CONTRACTOR SHALL SUBMIT A MAINTENANCE AND PROTECTION OF TRAFFIC PLAN TO ROAD OWNERS. PLAN MUST BE APPROVED BY THE ROAD OWNER AND SHALL INCORPORATE DETAILS SHOWN ON DETAIL SHEETS.
16. ALL EXISTING ITEMS (INCLUDING TREES, PLANTERS, HEDGES, SIDEWALKS, FENCE, GUIDE LINES, ETC.) MAY NOT BE SHOWN ON DRAWINGS. HOWEVER THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING ITEMS, INCLUDING BUT NOT LIMITED TO REPAIRED LANDSCAPING. ALL DAMAGED ITEMS SHALL BE RESTORED TO THEIR EXISTING CONDITION OR BETTER AND AT NO ADDITIONAL COST TO THE OWNER.
17. CONTRACTOR SHALL REMOVE ANY TREES DAMAGED BY HIS CONSTRUCTION OPERATIONS OUTSIDE FROM THE PROPOSED PATH OF WATERMAIN TO THE LIMITS OF CLEARING INDICATED ON THE CONTRACT DRAWINGS, IF NECESSARY.
18. CONTRACTOR IS RESPONSIBLE FOR DETERMINING DEPTH OF GROUNDWATER AND FOR ALL COSTS ASSOCIATED WITH DE-WATERING, CONTROL AND DISPOSAL NECESSARY TO INSTALL PIPING.
19. WHEN CONTRACTOR IS WITHIN 5' OF UTILITY POLE THEY MUST COORDINATE SUPPORTING POLES WITH THE UTILITY COMPANY.
20. CONTRACTOR SHALL LOCATE, MARK, SAFEGUARD AND PRESERVE ALL SURVEY CONTROL, R.O.W. MONUMENTS, AND INDIVIDUAL PROPERTY CORNER PINS/MONUMENTS IN THE AREA OF CONSTRUCTION. IF DAMAGED, CONTRACTOR SHALL HAVE SURVEYED AND REPLACED AT NO ADDITIONAL COST TO OWNER.
21. ALL REMOVED HYDRANTS SHALL BE THE PROPERTY OF THE OWNER AFTER REMOVED, CONTRACTOR SHALL TRANSPORT REMOVED HYDRANTS TO A DESIGNATED AREA IDENTIFIED BY THE OWNER.
22. CONTRACTOR SHALL PRESSURE TEST IN ACCORDANCE WITH AWWA STANDARD C600
23. CONTRACTOR SHALL KEEP EXISTING WATERMAINS IN SERVICE AND OPERATIONAL UNTIL ALL SERVICES FOR THAT SECTION OF EXISTING WATERMAIN HAS BEEN TRANSFERRED TO THE NEW WATERMAIN IS COMPLETED
24. DISINFECTION PROCEDURES SHALL BE FOLLOWED FOR THE NEW WATER MAIN ALONG WITH AN "APPROVAL OF COMPLETED WORKS" IS ISSUED BY THE WESTCHESTER COUNTY HEALTH DEPARTMENT PRIOR TO PLACING THE WATER MAIN INTO SERVICE. THE CONTRACTOR SHALL DISINFECT THE WATER MAIN IN ACCORDANCE WITH THE LATEST AWWA STANDARD C651. A SUMMARY DESCRIPTION PROVIDED BELOW:

- a. COMPLETE ALL PRESSURE AND LEAKAGE TESTING PRIOR TO START OF DISINFECTION PROCESS.
- b. FLUSH ALL PIPE AND APPURTENANCES OF DIRT AND CONTAMINANT MATERIALS.
- c. USE CONTINUOUS FEED METHOD.
- d. USE OF SOLID HYPOCHLORITE METHOD IS NOT ALLOWED (TABLET METHOD).
- e. CHLORINE INJECTION POINT SHALL BE WITHIN 10- FEET OF THE EXISTING HYDRANT.
- f. AVAILABLE CHLORINE IN SOLUTION SHALL BE NOT LESS THAN 50 MGL AND NOT GREATER THAN 100 MGL, AND SHALL BE HELD IN THE SYSTEM FOR NOT LESS THAN 24-HOURS.
- g. DURING CHLORINE INJECTION FLUSH EACH HYDRANT UNTIL THE REQUIRED RESIDUAL IS MET.
- h. AFTER 24-HOURS THE AVAILABLE CHLORINE SHALL BE NO LESS THAN 25 MGL.
- i. REPEAT PROCEDURE AS NECESSARY TO ACHIEVE REQUIRED CHLORINE RESIDUAL AT THE COMPLETION OF THE DISINFECTION PROCEDURE.
- j. THOROUGHLY FLUSH THE SYSTEM, UNTIL THE CHLORINE RESIDUAL IS BETWEEN 0.5 AND 1.2 MGL.
- k. COLLECT INITIAL SAMPLES FOR LABORATORY TESTING FOR TOTAL COLIFORM

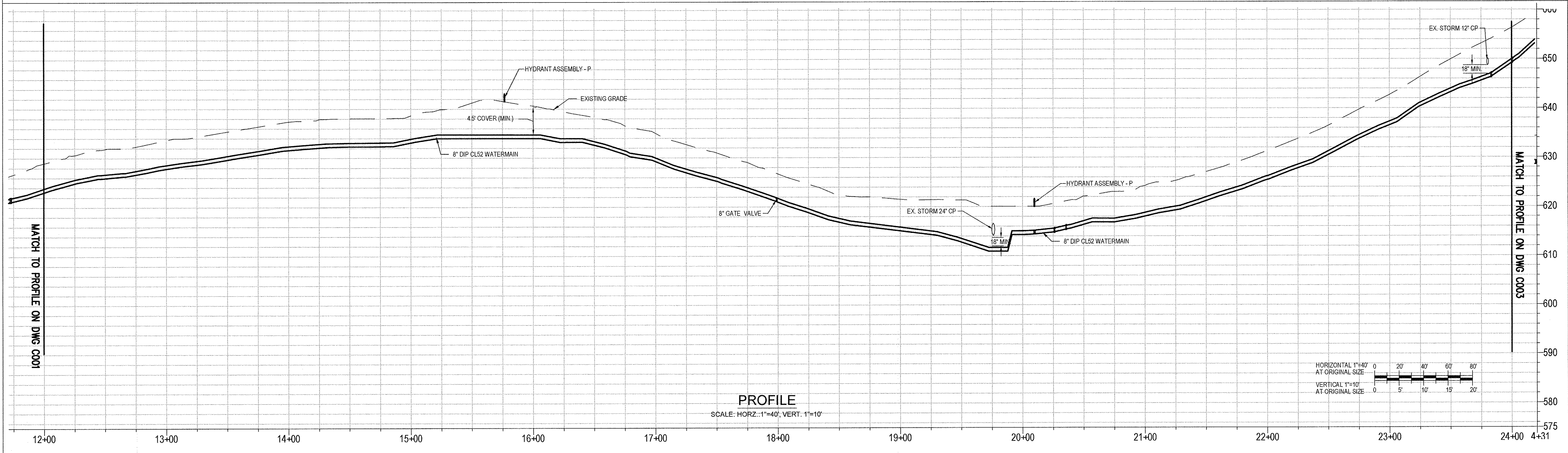
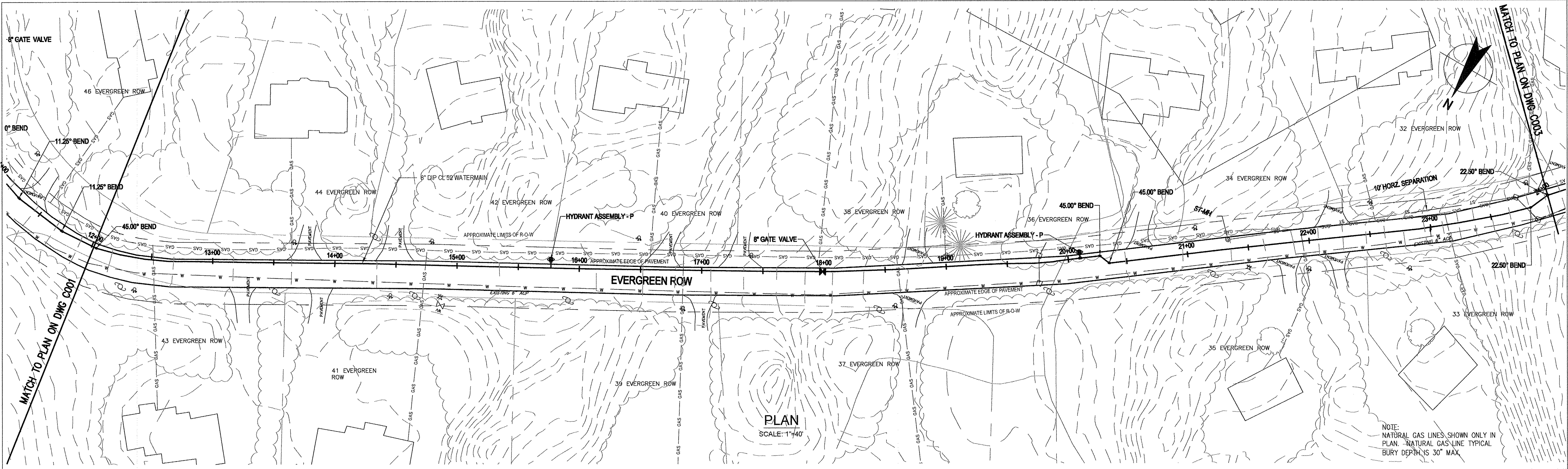




5. REFER TO SECTION 01564 FOR ADDITIONAL EROSION AND SEDIMENT CONTROL REQUIREMENTS.

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Drafting Check	JBA	Design Check	JSS
Approved (Project Director) Date			
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**TOWN OF NORTH CASTLE, NEW YORK
WD NO. 2 - DISTRIBUTION SYSTEM REPLACEMENT
GENERAL NOTES, ABBREVIATIONS, LEGEND,
OVERVIEW PLAN, & DRAWING LIST**

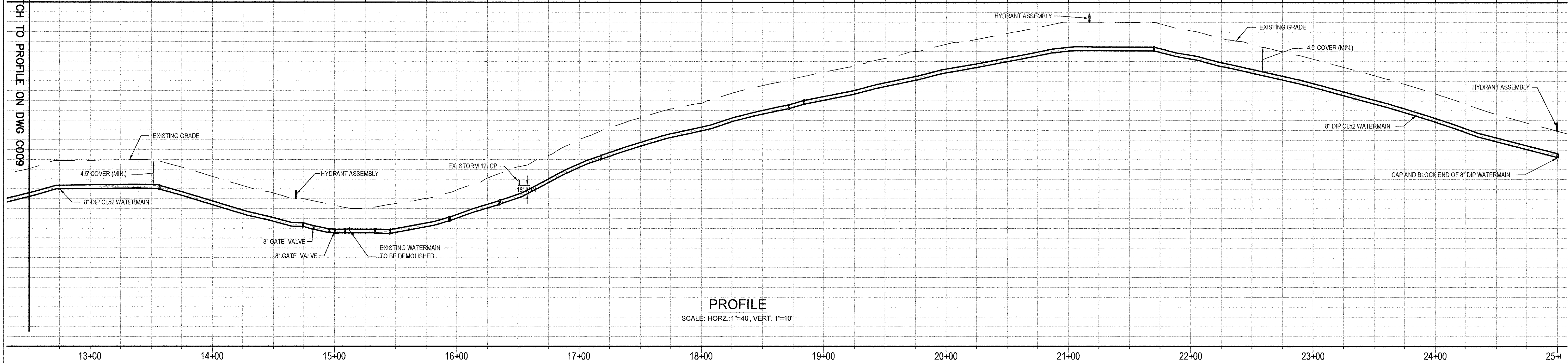
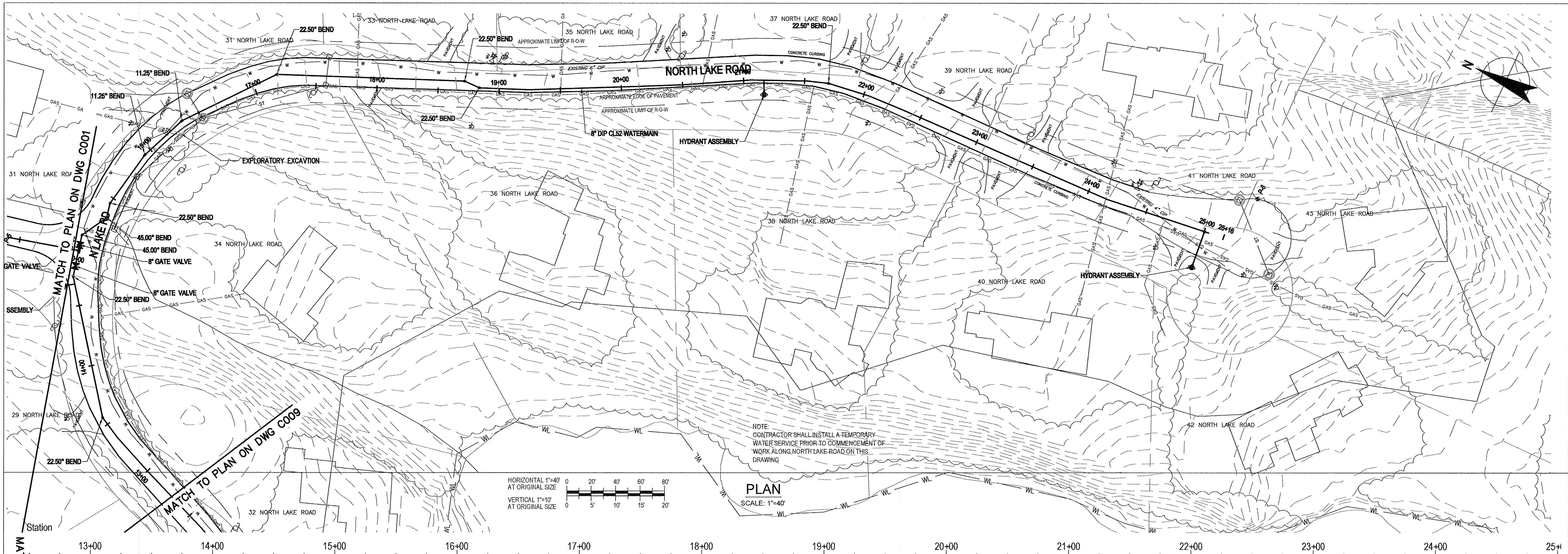
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					NOTES:				GHD Consulting Services Inc. One Remington Park Drive Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5801 E cazmail@ghd.com W www.ghd.com	Drawn JBA	Designer JBA	Client Project Title Contract No. 1	TOWN OF NORTH CASTLE, NEW YORK WD NO. 2 - DISTRIBUTION SYSTEM REPLACEMENT EVERGREEN ROW PLAN & PROFILE STA. 12+00 - 24+00		
					UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.					Drafting JBA	Design JSS			Approved (Project Director) Date	This Drawing shall not be used for Construction unless Signed and Sealed For Construction
					IT IS VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM ON THIS DRAWING IN ANYWAY. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE AND DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.										
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Drawn	Job Manager	Project Director	Date		

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Drafting Check JBA	Design Check JSS	
Approved (Project Director) <i>Kevin A. J.</i>	Date	
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Client **TOWN OF NORTH CASTLE, NEW YORK**

Project **WD NO. 2 - DISTRIBUTION SYSTEM REPLACEMENT**

Title **NORTH LAKE ROAD
PLAN & PROFILE STA. 12+50 - 24+00**

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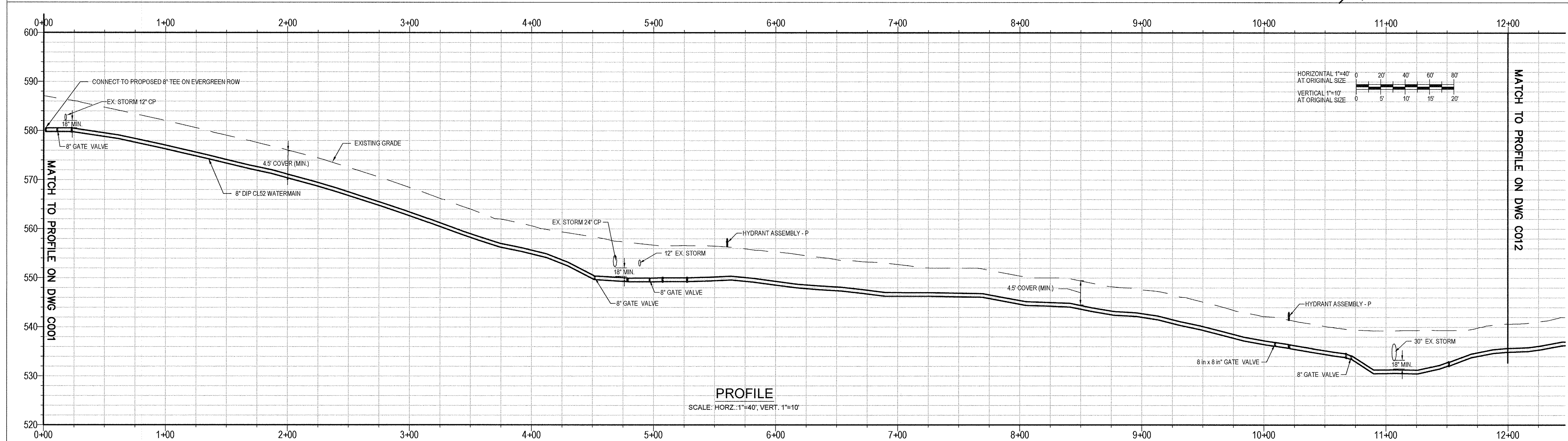
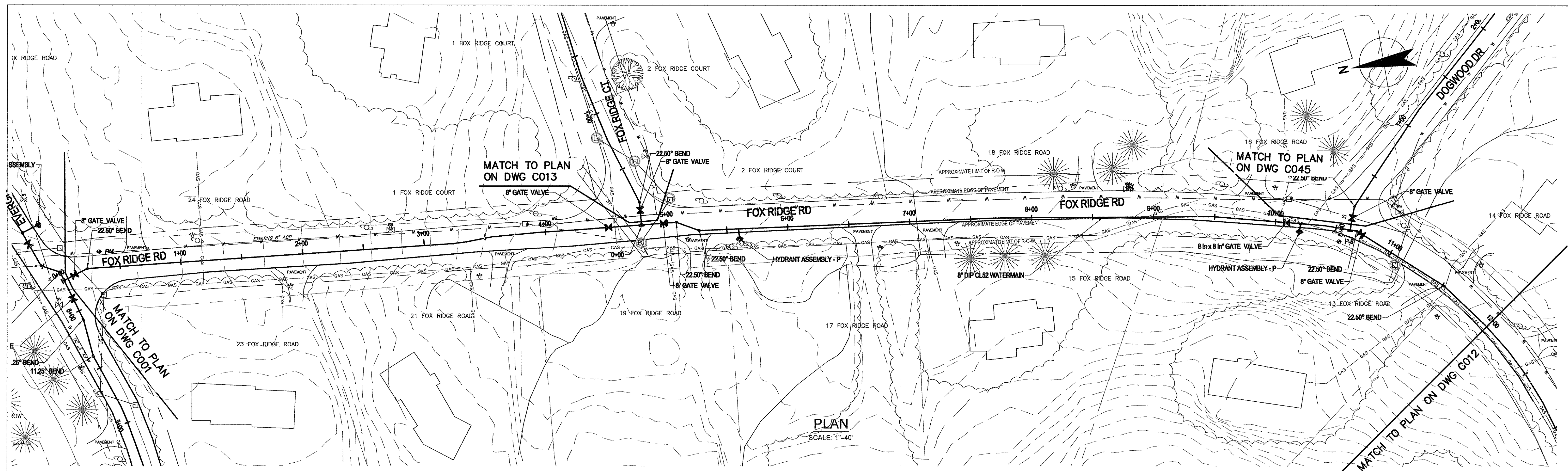
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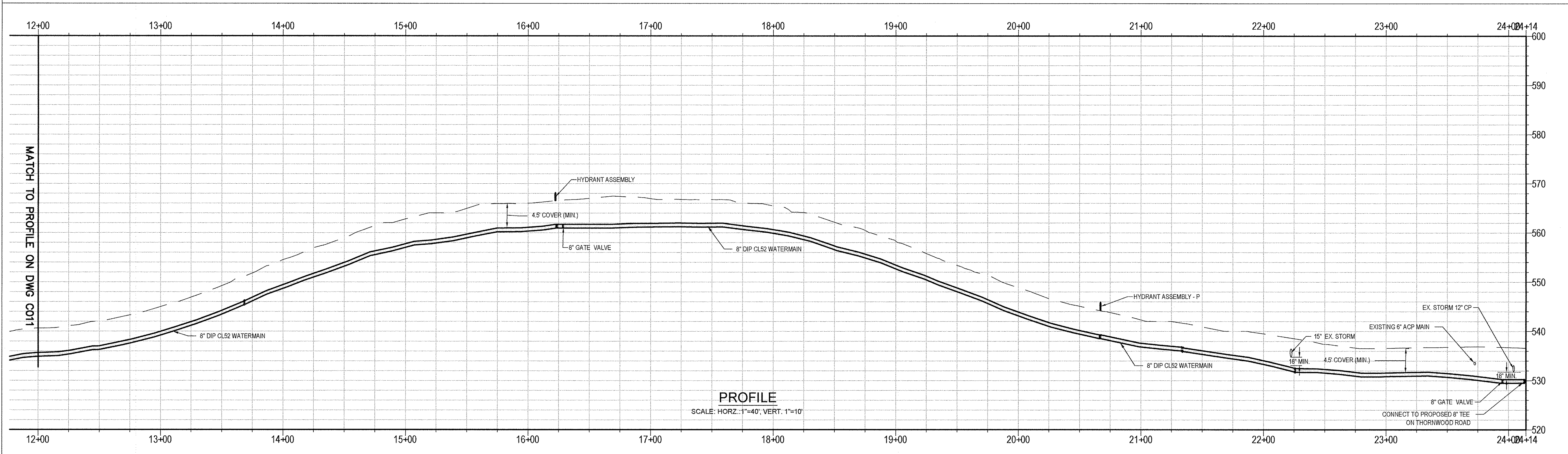
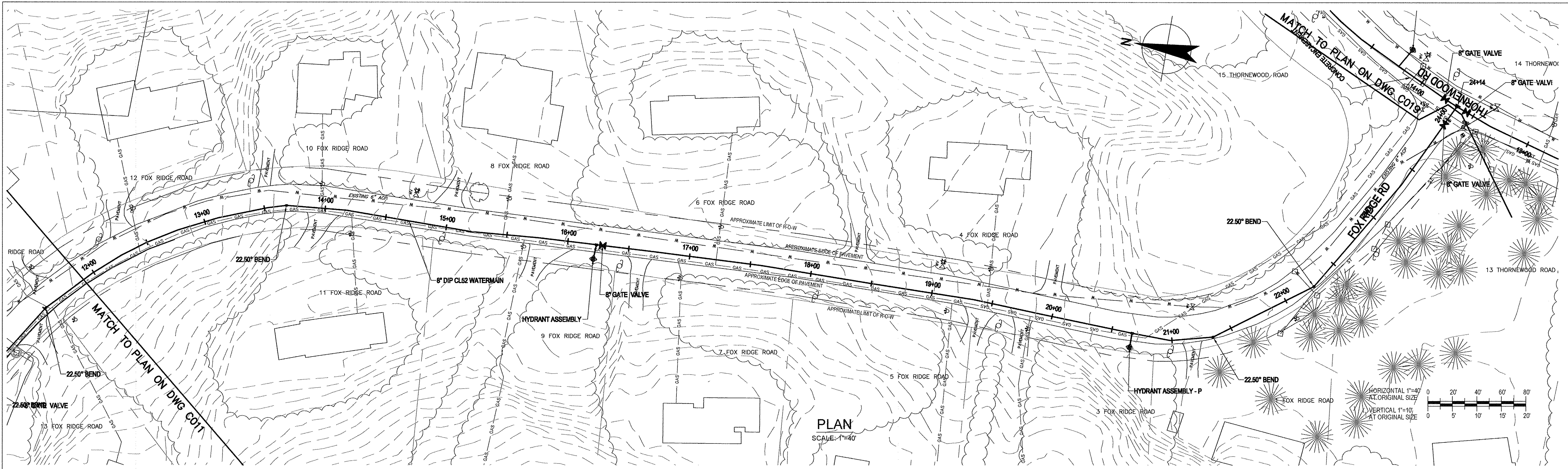
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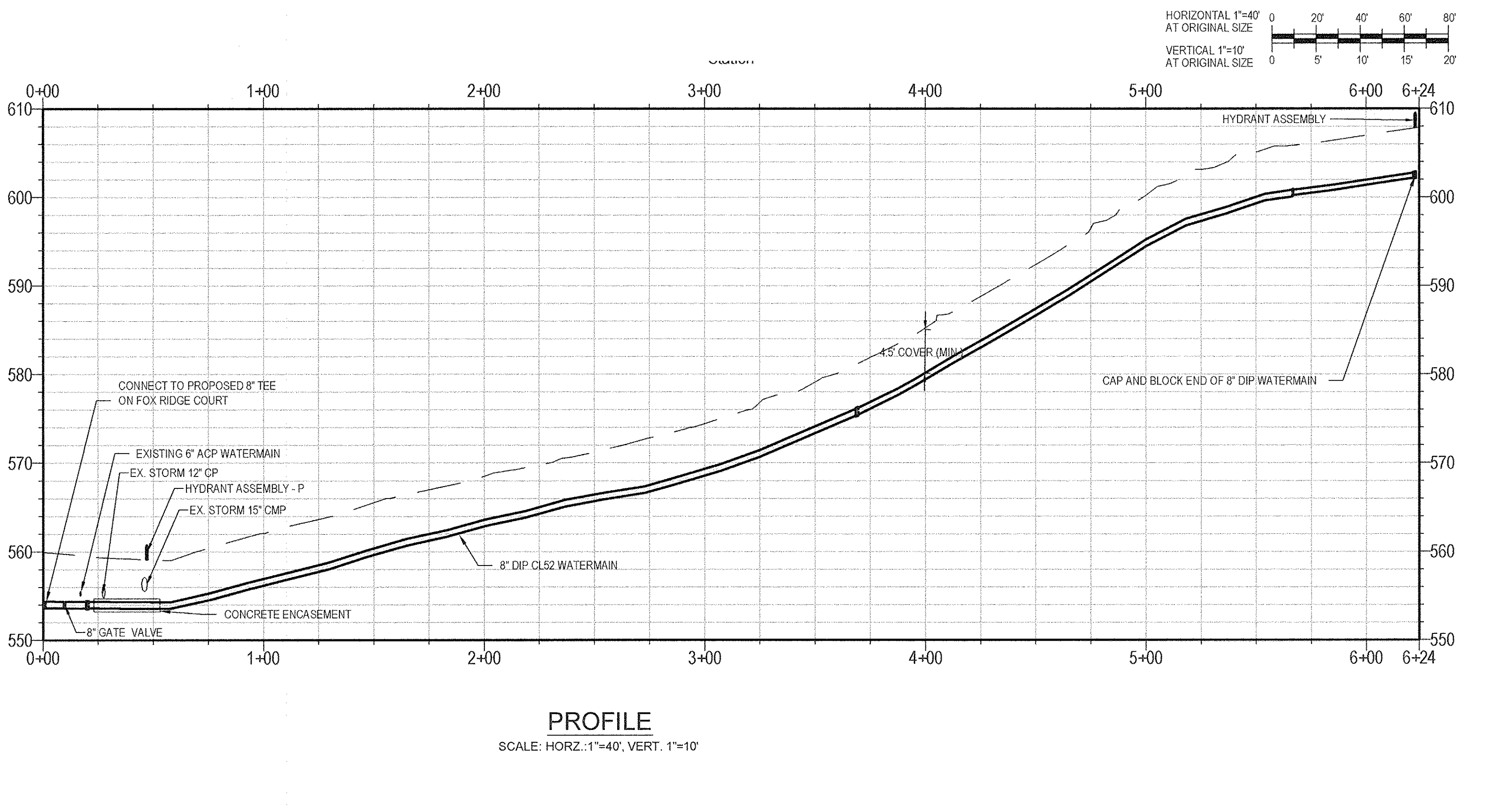
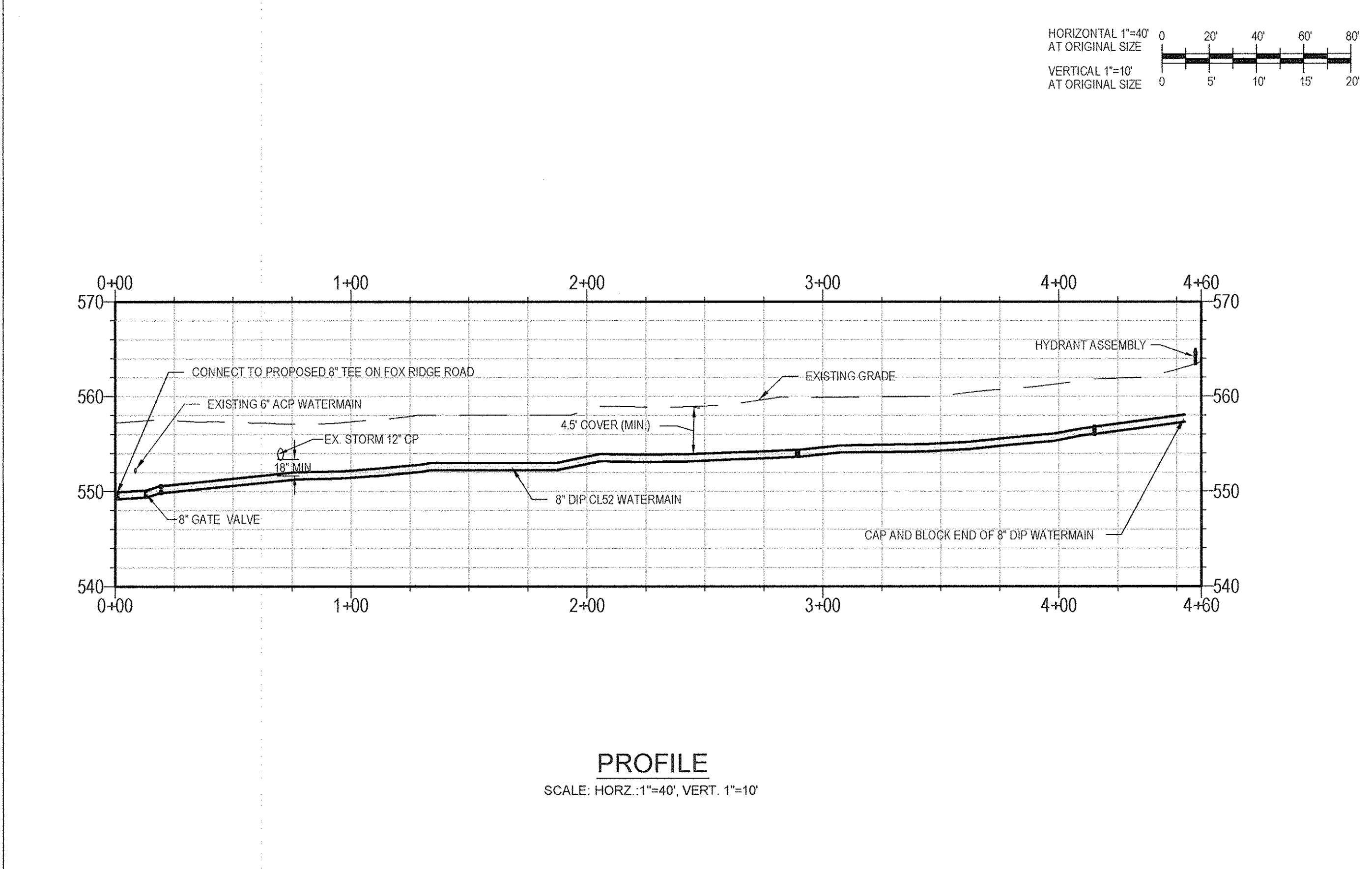
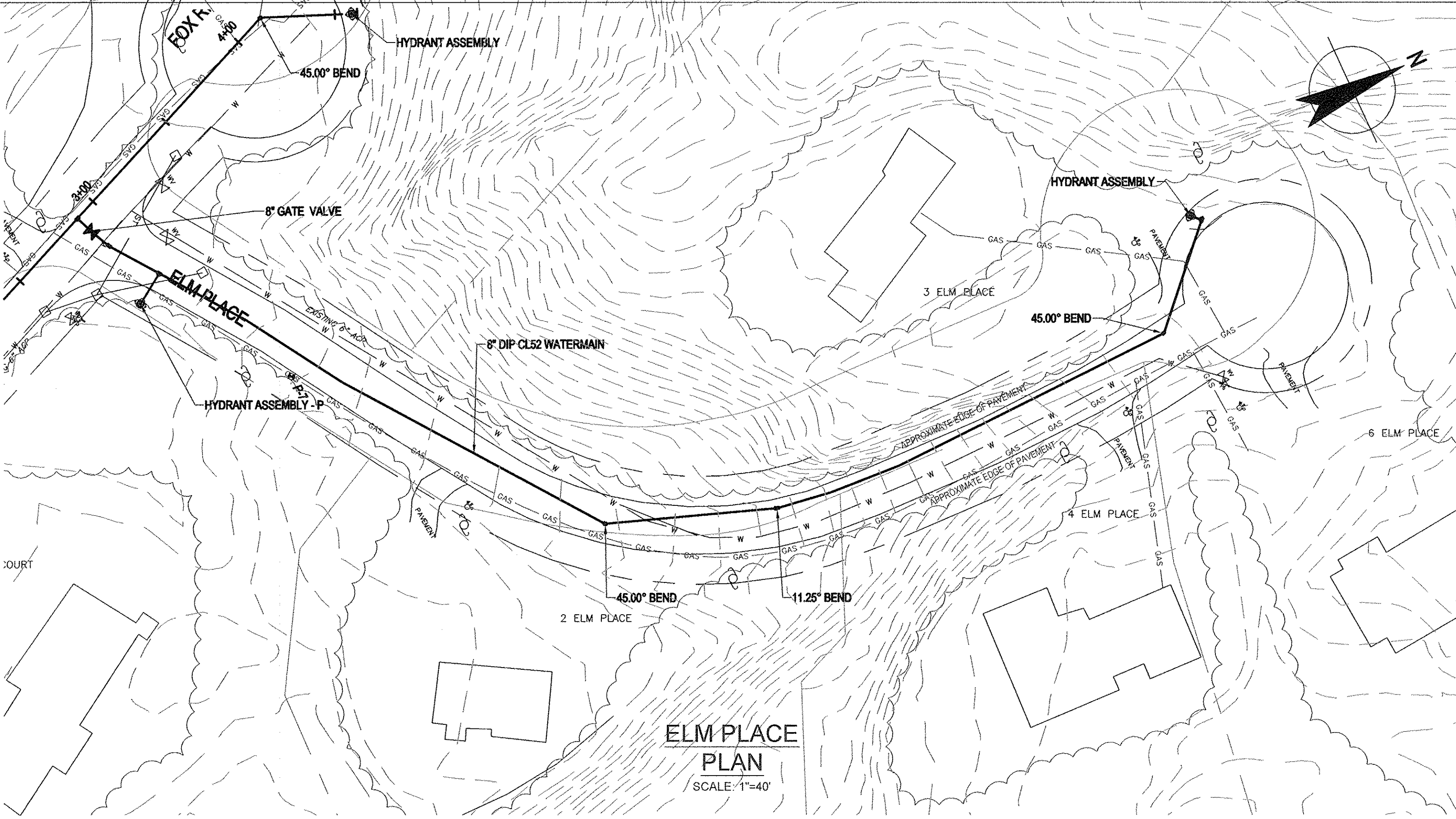
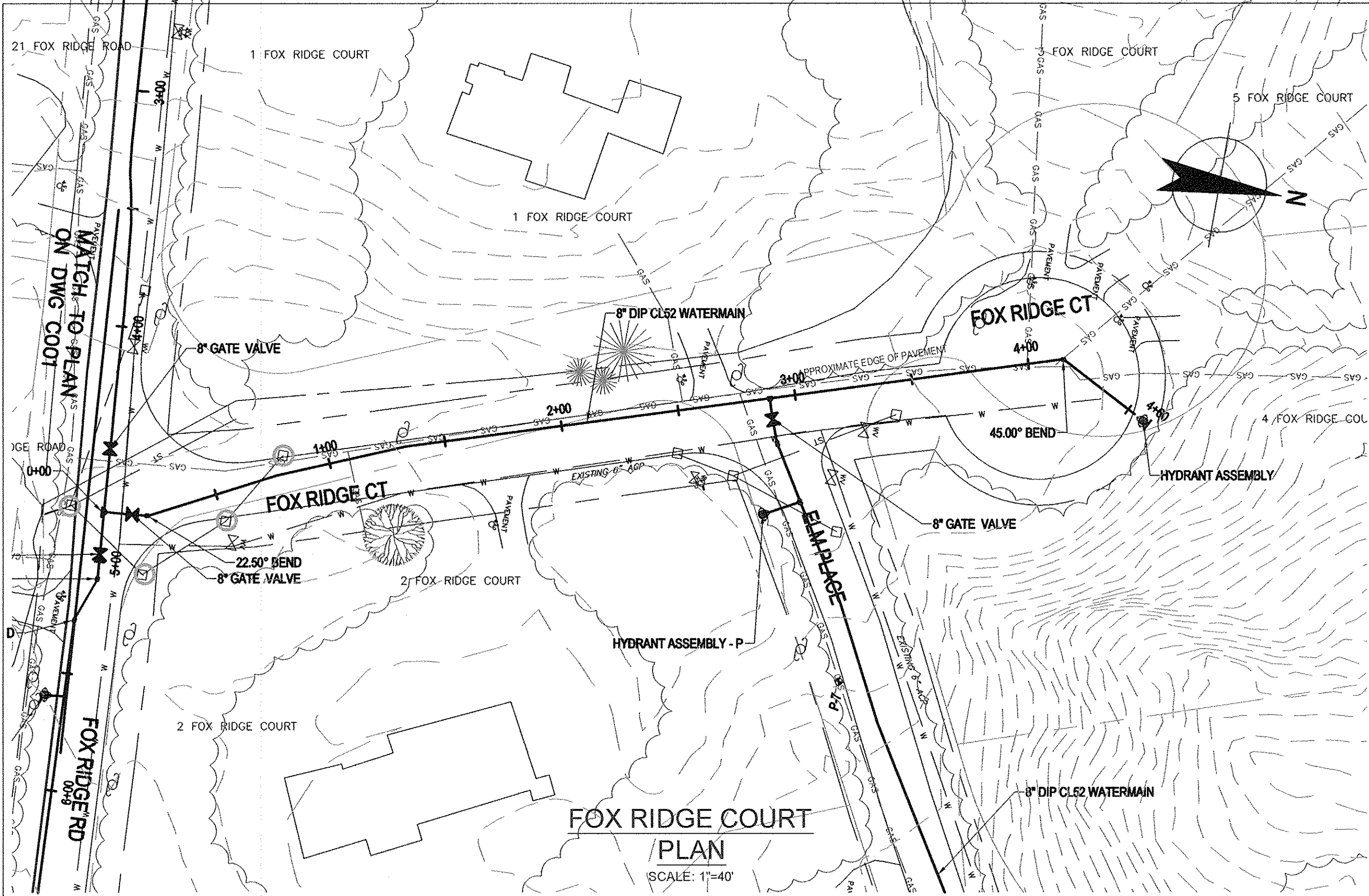
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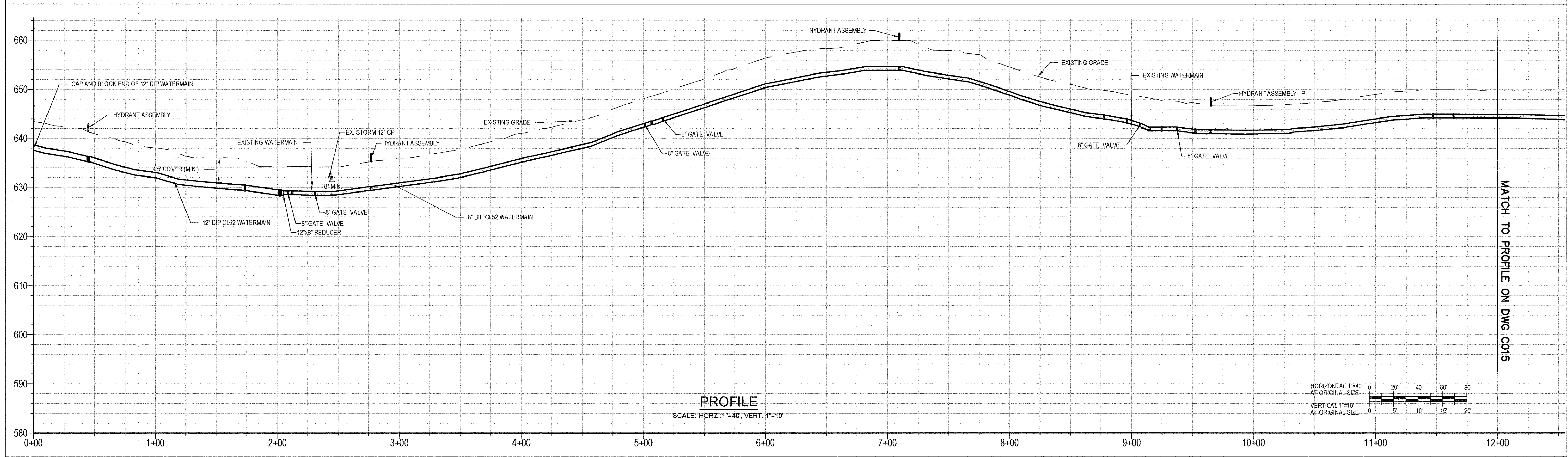
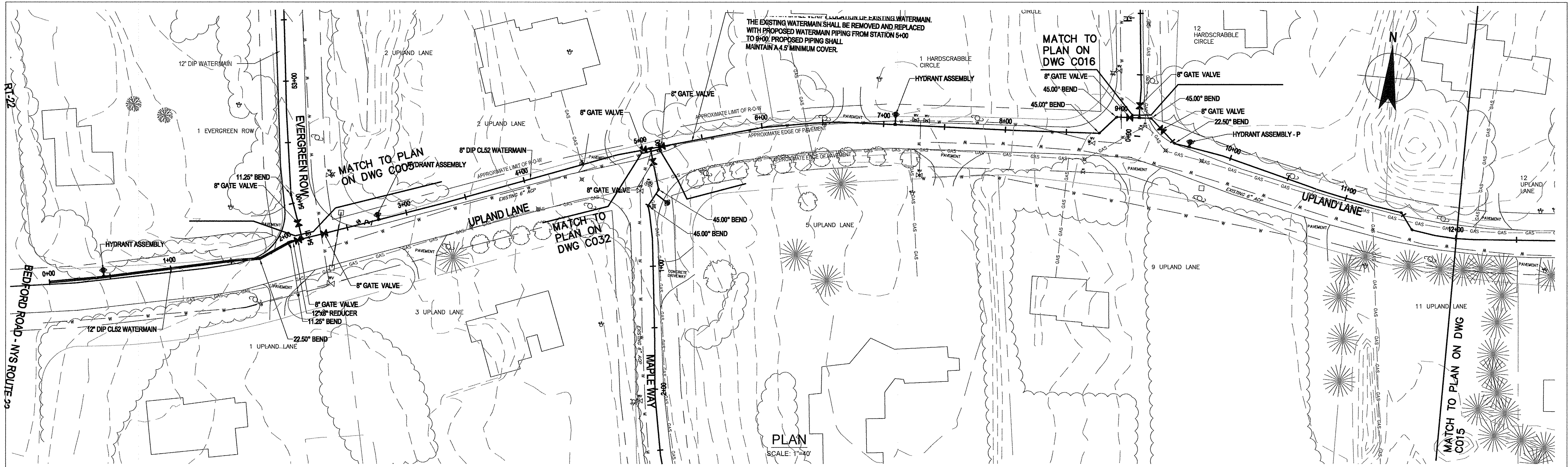
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Drafting JBA	Design JSS
Approved (Project Director)	Date
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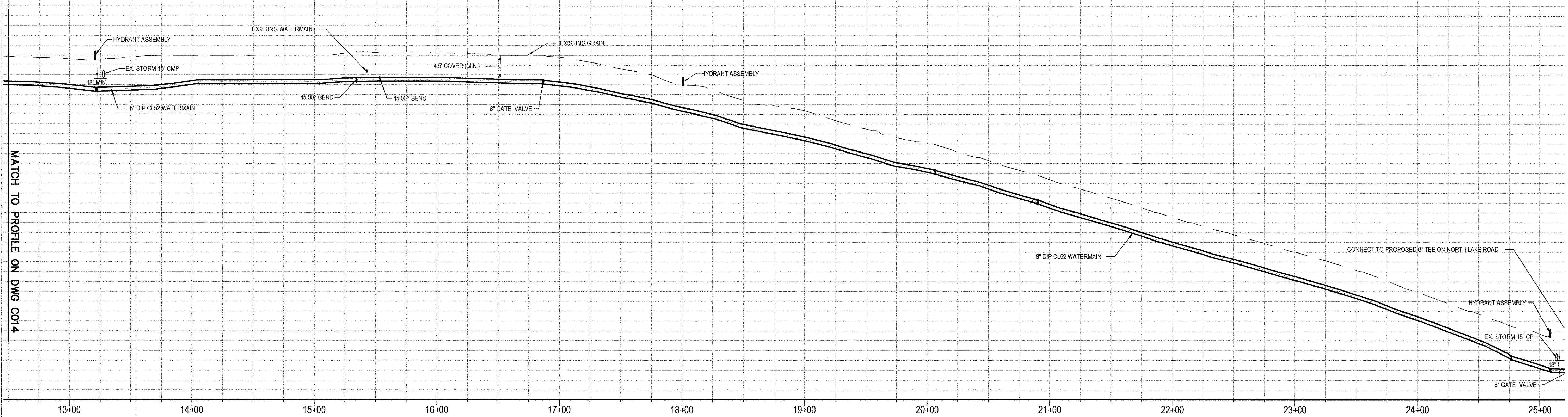
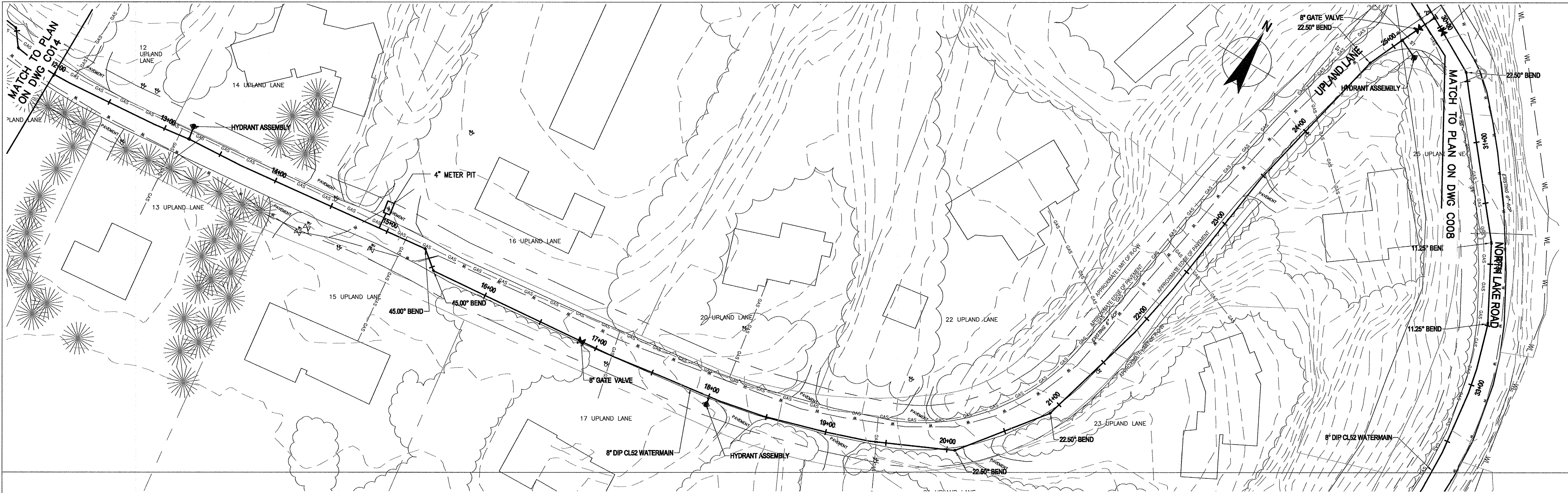
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Project	WD NO. 2 - DISTRIBUTION SYSTEM REPLACEMENT
Title	FOX RIDGE ROAD PLAN & PROFILE STA. 12+00 - 24+00
Contract No.	1
Original Size	Ansi D
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				UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.						Drafting JBA		Design JSS						
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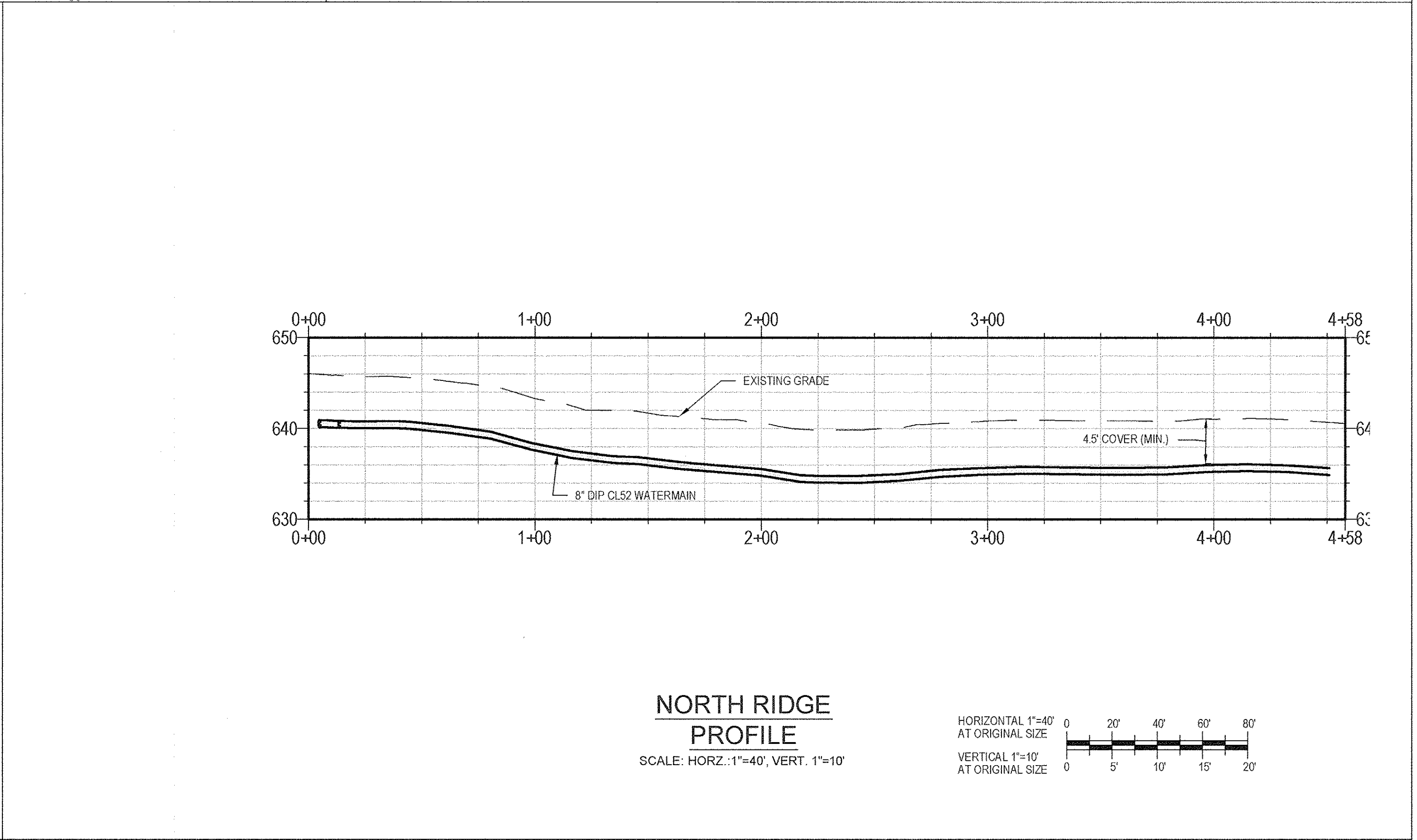
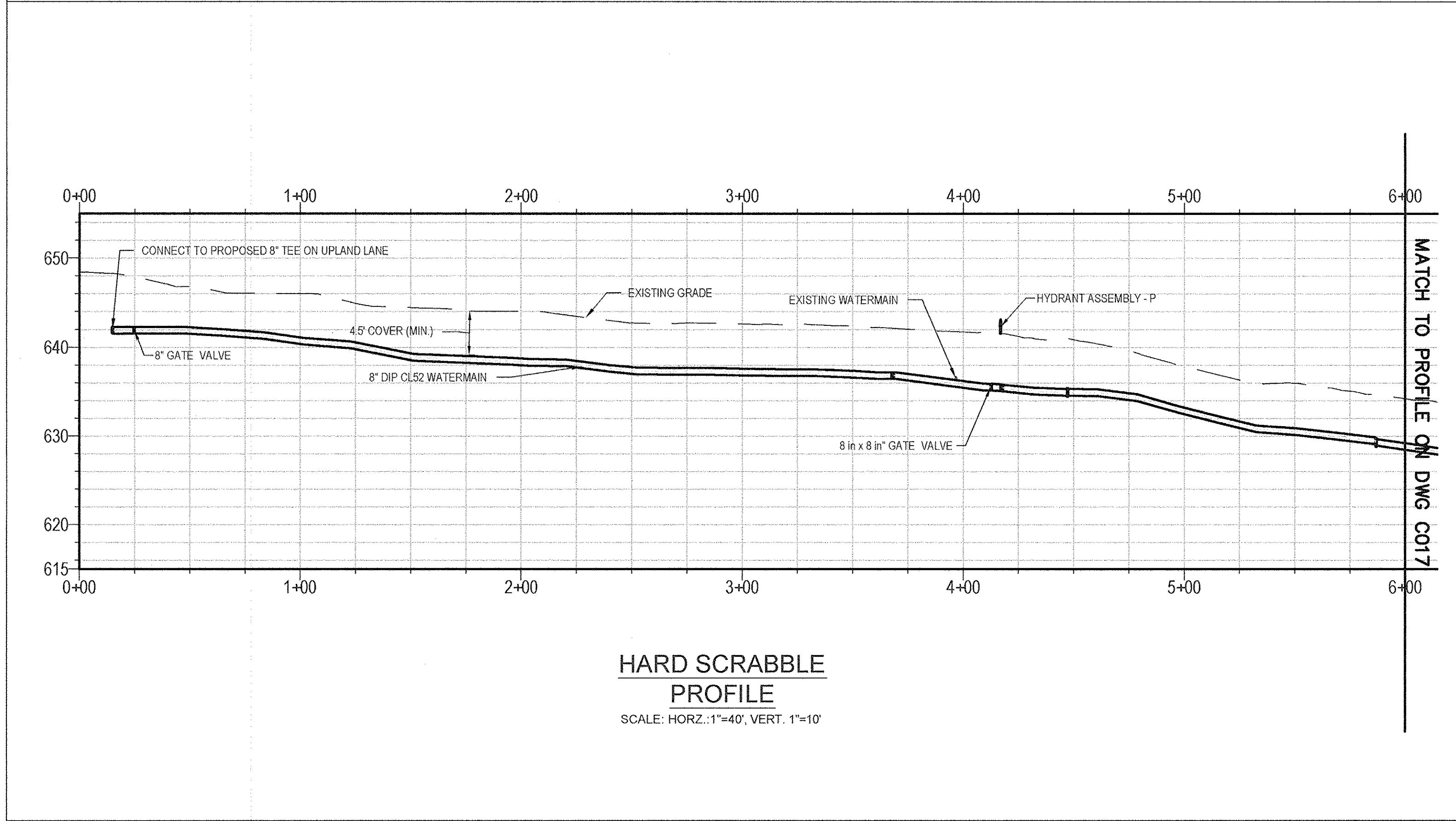
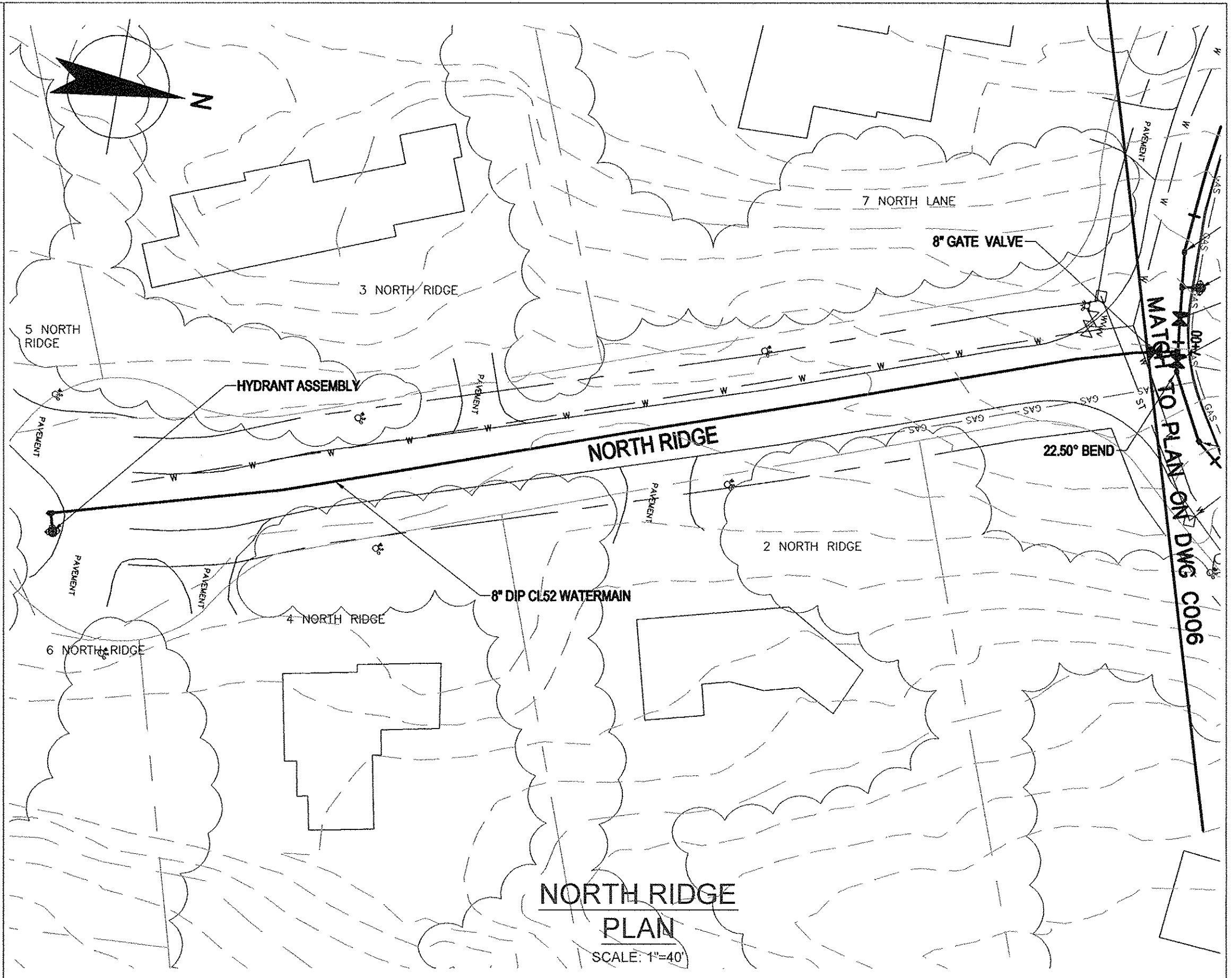
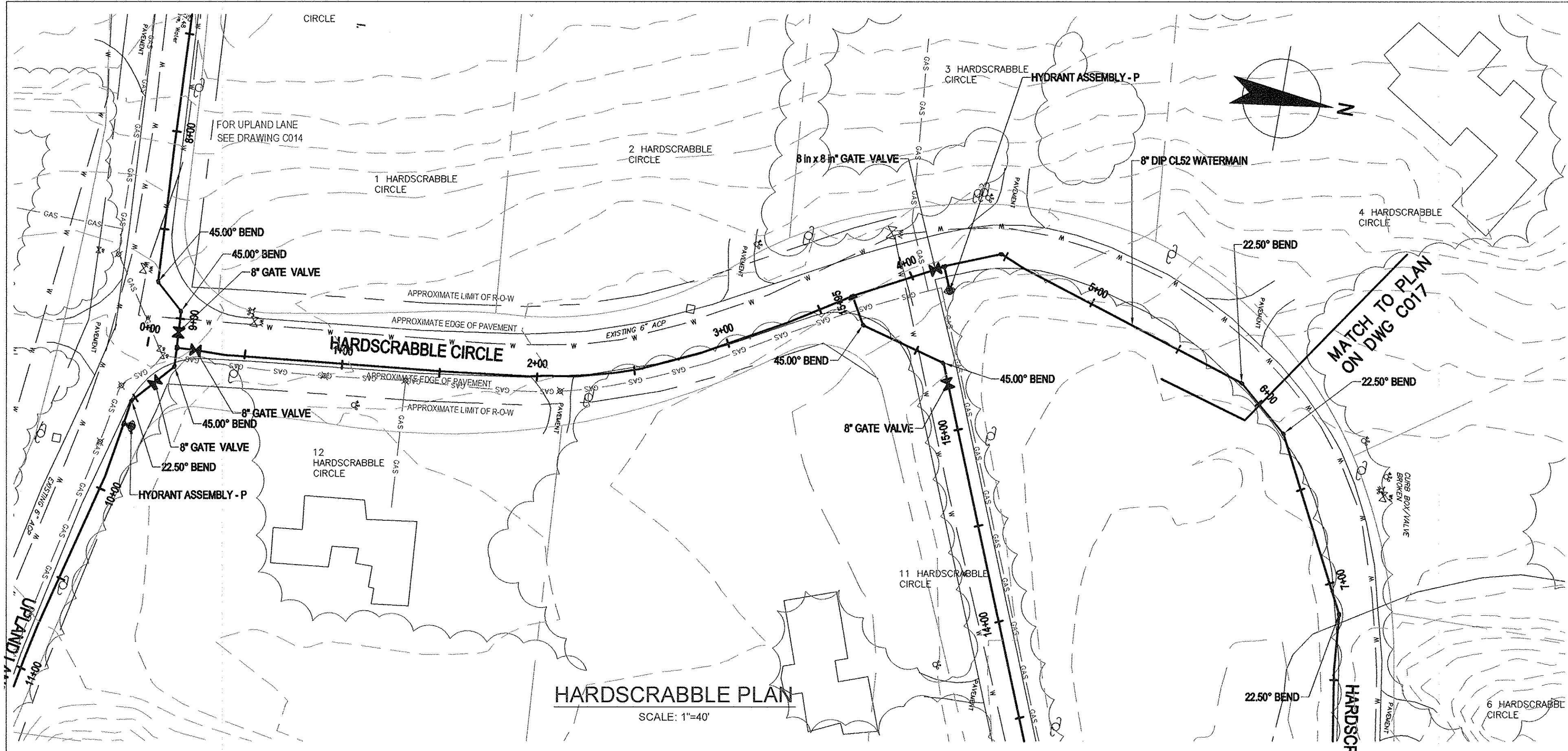



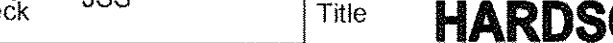
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No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing		Drawn	Job Manager	Project Director	Date	IT IS VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM ON THIS DRAWING IN ANYWAY. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE AND DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.				Original Size Ansi D	Drawing No: 86-16265-C015	Rev: 0
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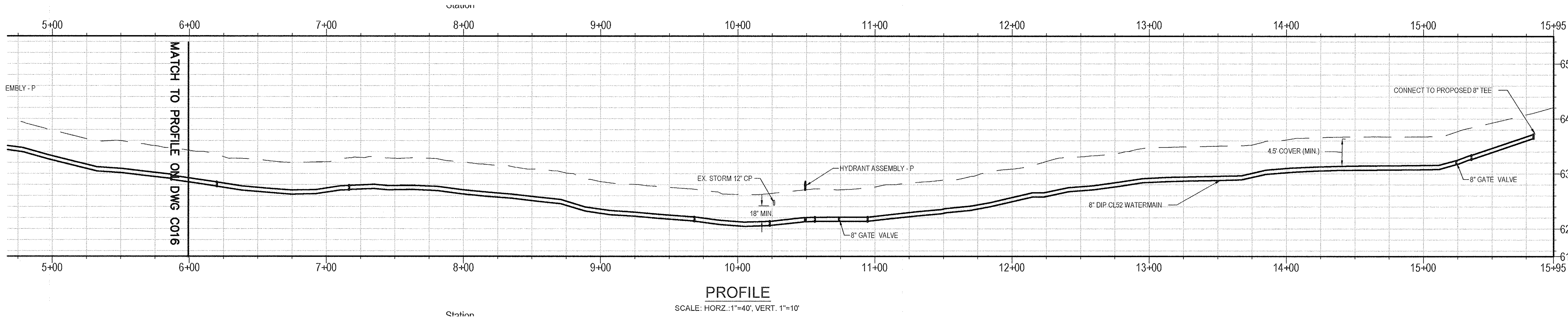
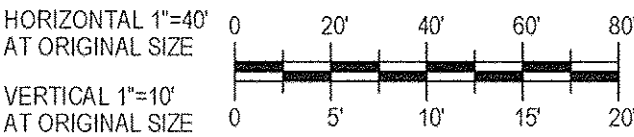
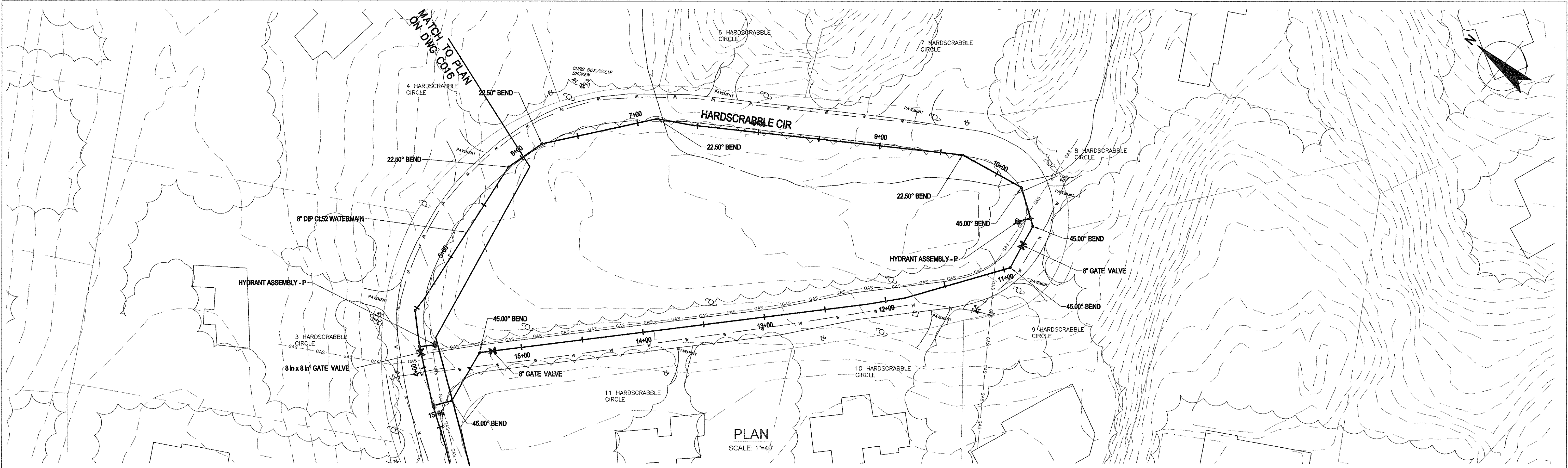
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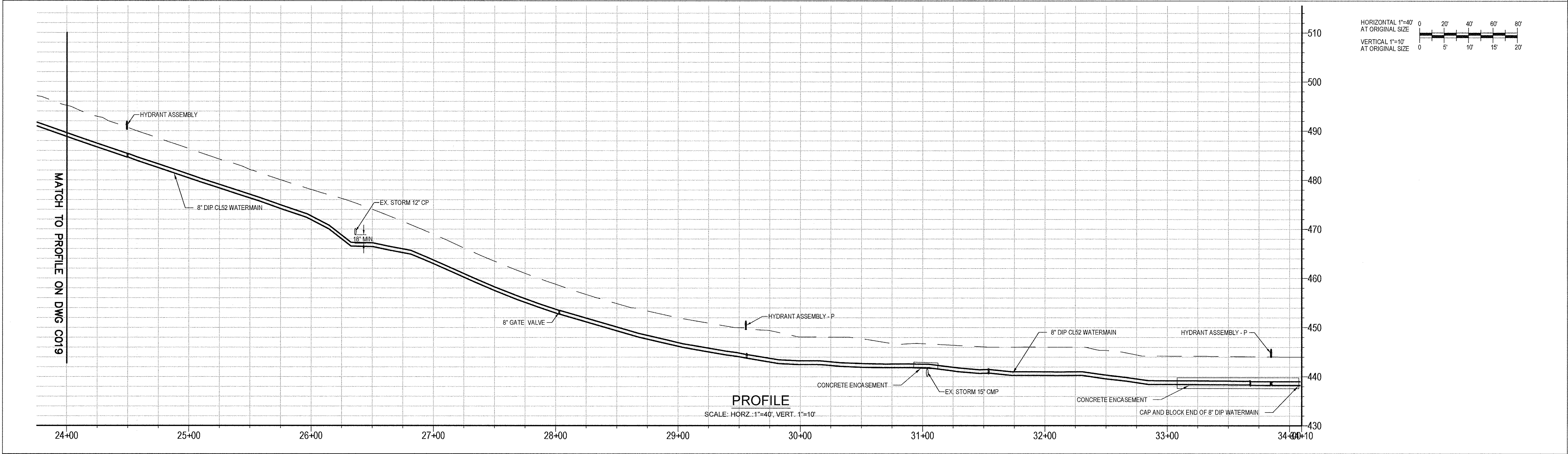
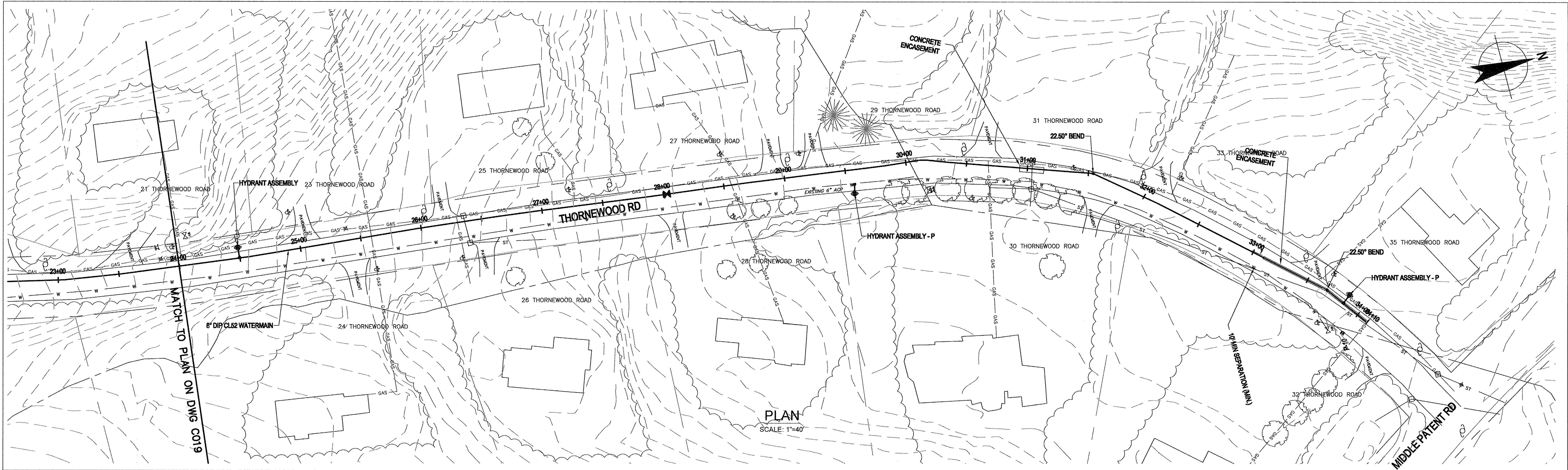
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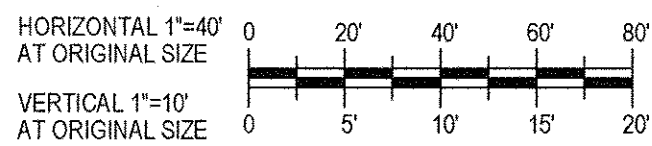
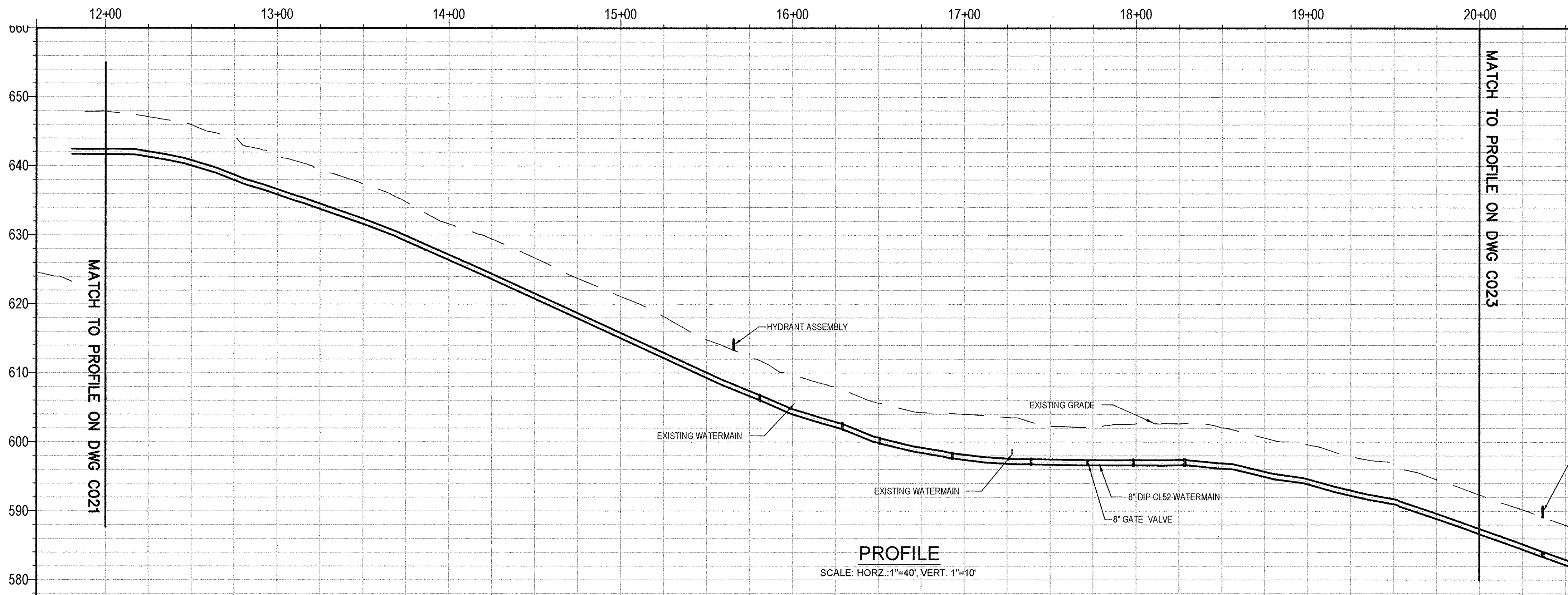
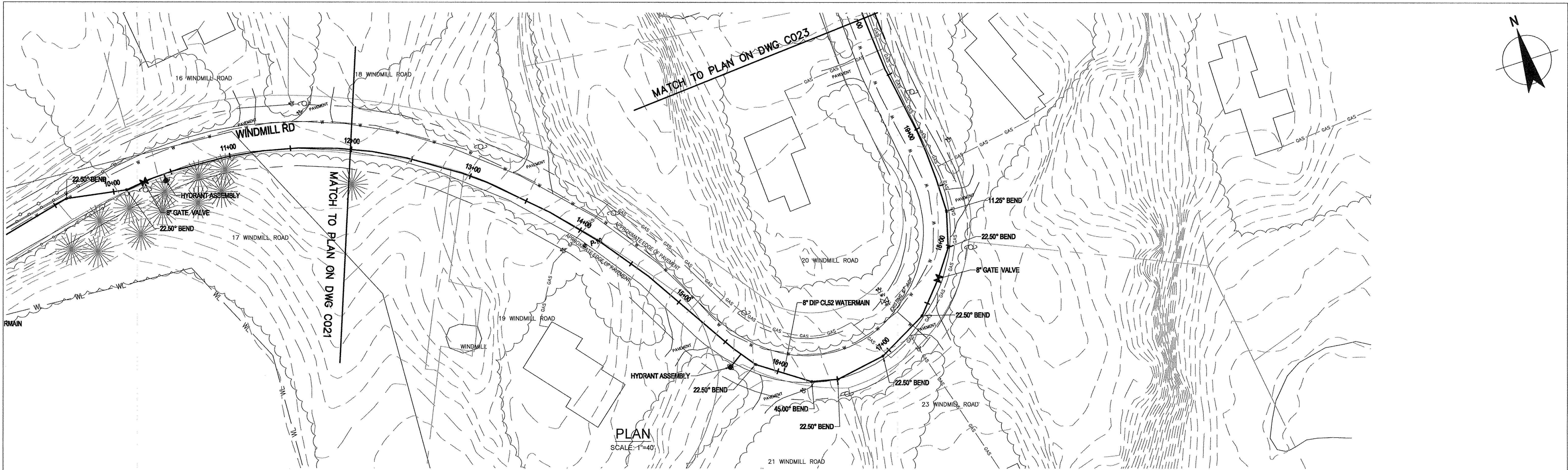
				<div>NOTES:</div> <div>UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.</div>				<div><div><div>STATE OF NEW YORK</div><div>KEVIN CASTRO</div><div>070882</div><div>LICENSED PROFESSIONAL ENGINEER</div></div><div></div></div>				<div><div><div>GHG</div><div>GHG Consulting Services Inc.</div><div>One Remington Park Drive</div><div>Cazenovia NY 13035 USA</div><div>T 1 315 679 5800 F 1 315 679 5801</div><div>E cazmail@ghd.com W www.ghd.com</div></div></div>				<div>Drawn JBA</div> <div>Designer JBA</div>		<div>Client</div> <div>TOWN OF NORTH CASTLE, NEW YORK</div>	
								<div>Project</div> <div>WD NO. 2 - DISTRIBUTION SYSTEM REPLACEMENT</div>											
								<div>Drafting Check JBA</div> <div>Design Check JSS</div>		<div>Title</div> <div>HARDSCRABBLE PLAN AND PROFILE STA. 0+00 - 6+00</div>									
								<div>Approved (Project Director)</div> <div></div>		<div>Contract No. 1</div> <div>Original Size</div>									
<div>0 FOR CONSTRUCTION</div>				<div>JBA</div> <div>JSS</div> <div>KC</div> <div>05/14</div>						<div>Scale AS SHOWN</div> <div>This Drawing shall not be used for Construction unless Signed and Sealed For Construction</div>									
<div>No Revision Note: * indicates signatures on original issue of drawing or last revision of drawing</div>				<div>Drawn</div> <div>Job Manager</div> <div>Project Director</div> <div>Date</div>		<div>Cad File No: G:\86\16265\CADD\Drawings\Civil\86-16265-C009-C020.dwg</div>				<div>Ansi D Drawing No: 86-16265-C016</div> <div>Rev: 0</div>									
<div>Plot Date: 9 May 2014 - 3:53 AM</div> <div>Plotted by: Joseph Awald</div>																			




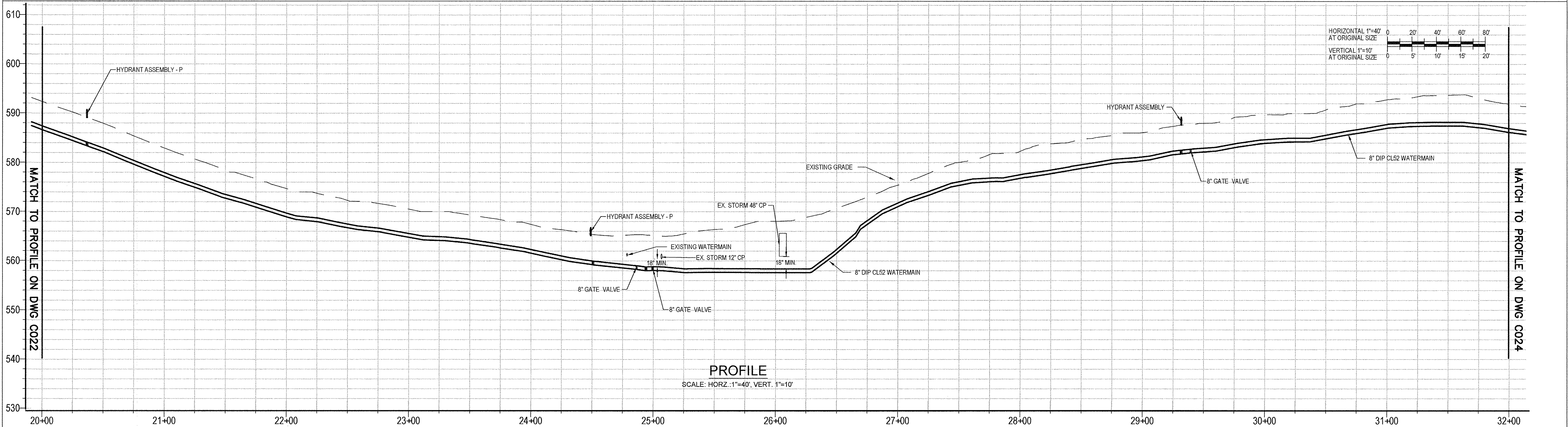
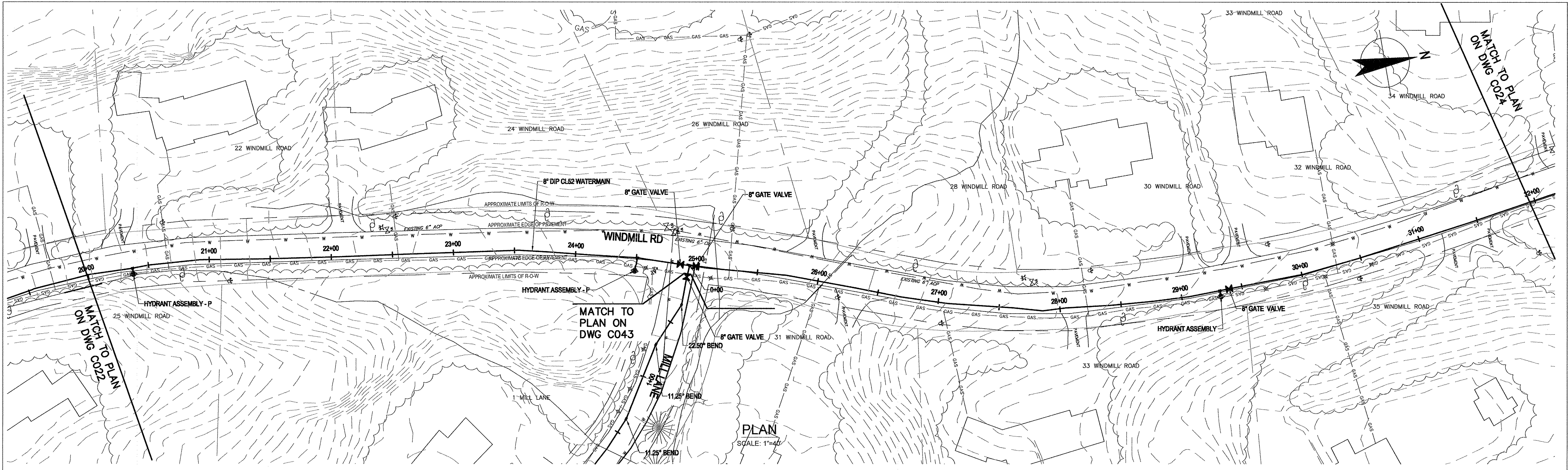
				<u>NOTES:</u>				  GHD Consulting Services Inc. One Remington Park Drive Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5801 E cazmail@ghd.com W www.ghd.com				Drawn JBA		Designer JBA		Client Project Title Contract No. 1		
												Drafting Check JBA		Design Check JSS				
0 FOR CONSTRUCTION				JBA	JSS	KC	05/14					IT IS VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM ON THIS DRAWING IN ANYWAY. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE AND DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.				Approved (Project Director) Date		
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing		Drawn	Job Manager	Project Director	Date					Scale AS SHOWN		This Drawing shall not be used for Construction unless Signed and Sealed For Construction		Drawing No: 86-16265-C017		Rev: 0
Plot Date: 9 May 2014 - 3:54 AM				Plotted by: Joseph Awald				Cad File No: G:\8616265\CADD\Drawings\Civil\86-16265-C009-C020.dwg										







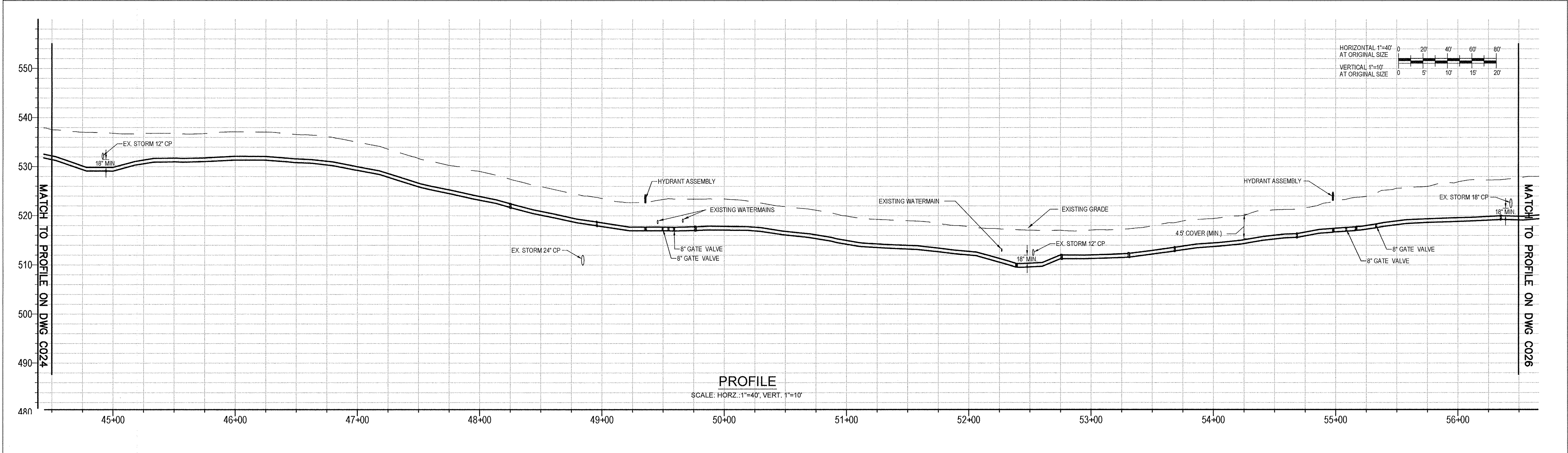
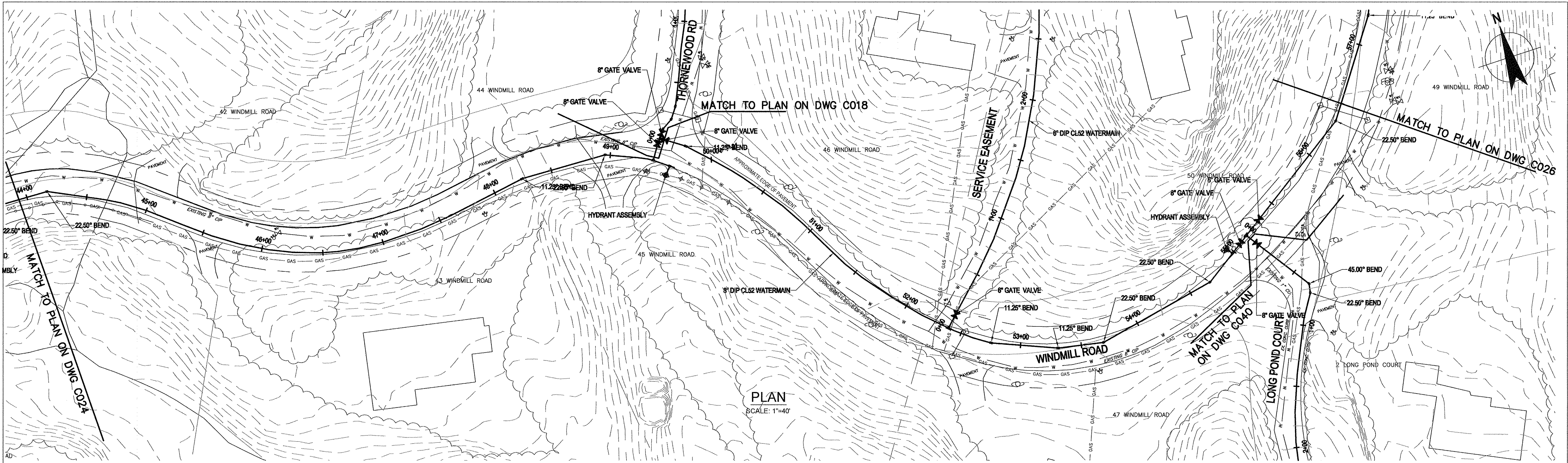
0 FOR CONSTRUCTION				JBA	JSS	KC	05/14	NOTES: UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN. IT IS VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM ON THIS DRAWING IN ANYWAY. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE AND DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.		 GHD Consulting Services Inc. One Remington Park Drive Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5801 E cazmail@ghd.com W www.ghd.com		Drawn JBA	Designer JBA	Client TOWN OF NORTH CASTLE, NEW YORK
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date						Drafting Check JBA	Design Check JSS	Project
												Approved (Project Director) 		Title THORNEWOOD ROAD
												Date		Contract No. 1
												Scale AS SHOWN	This Drawing shall not be used for Construction unless Signed and Sealed For Construction	Original Size
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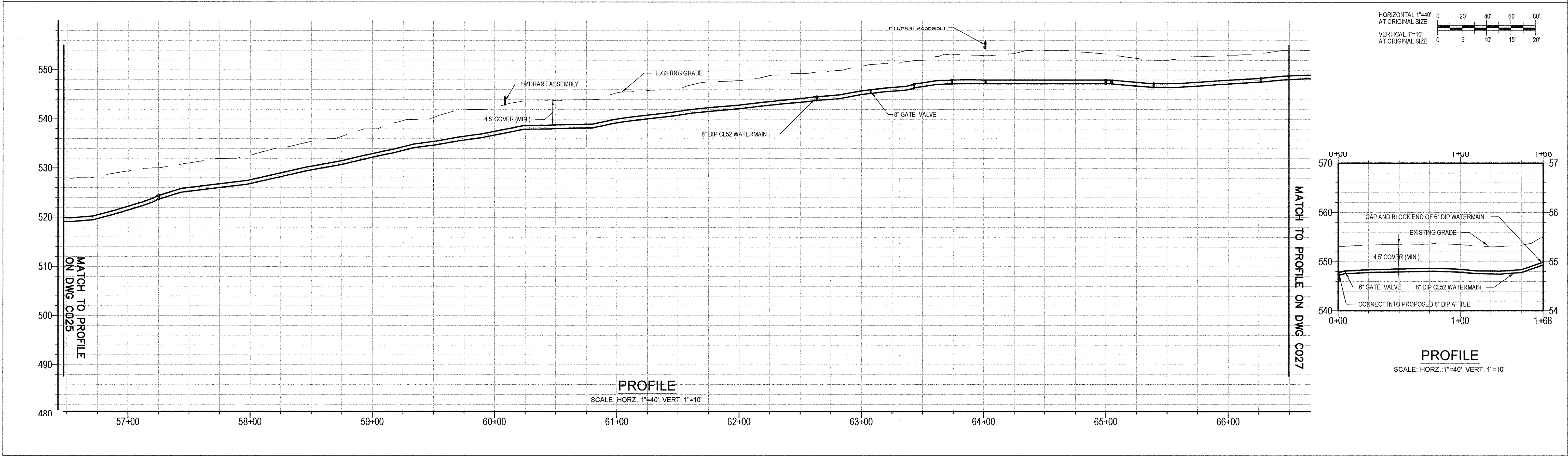
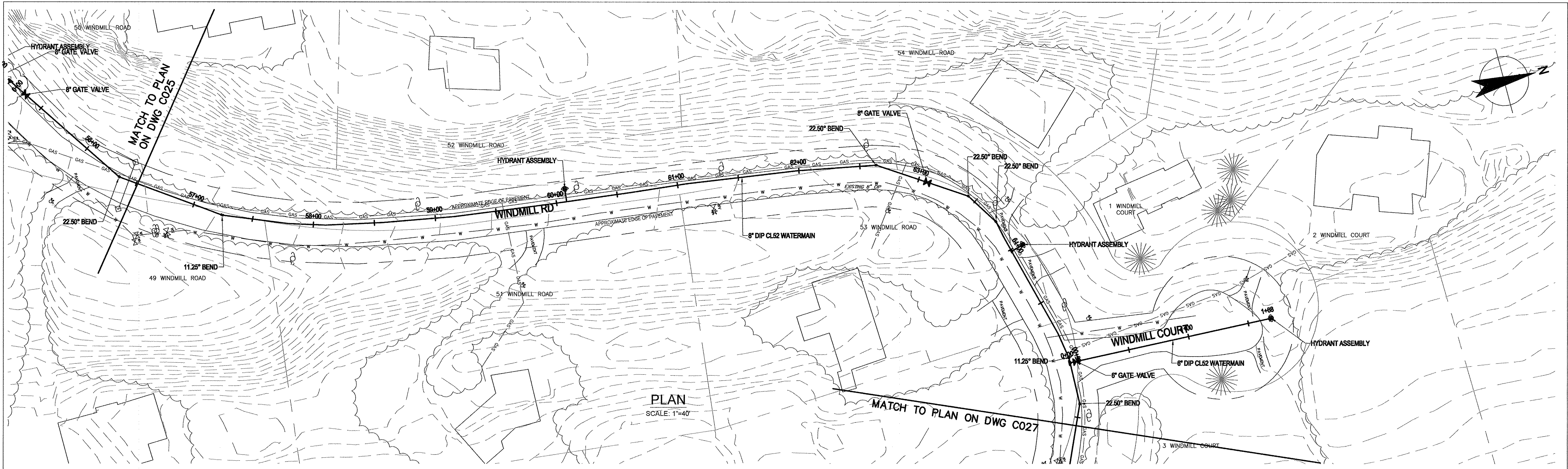
				NOTES:				<div><div>GHD Consulting Services Inc. One Remington Park Drive Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5801 E cza@mail@ghd.com W www.ghd.com</div></div>				Drawn JBA		Designer JBA		Client		TOWN OF NORTH CASTLE, NEW YORK WD NO. 2 - DISTRIBUTION SYSTEM REPLACEMENT WINDMILL ROAD PLAN & PROFILE STA. 12+00 - 20+00	
												Drafting JBA		Design JSS		Project			
												Approved (Project Director)		Title		Contract No. 1			
												Date		Original Size		Ansi D			
0 FOR CONSTRUCTION				JBA	JSS	KC	05/14	IT IS VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM ON THIS DRAWING IN ANYWAY. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE AND DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.				Scale AS SHOWN		This Drawing shall not be used for Construction unless Signed and Sealed For Construction		Drawing No: 86-16265-C022		Rev: 0	
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing				Drawn	Job Manager	Project Director	Date										
Plot Date: 9 May 2014 - 11:30 AM				Plotted by: Joseph Awald				Cad File No: G:\8616265\CADD\Drawings\Civil\86-16265-C021-C030.dwg											







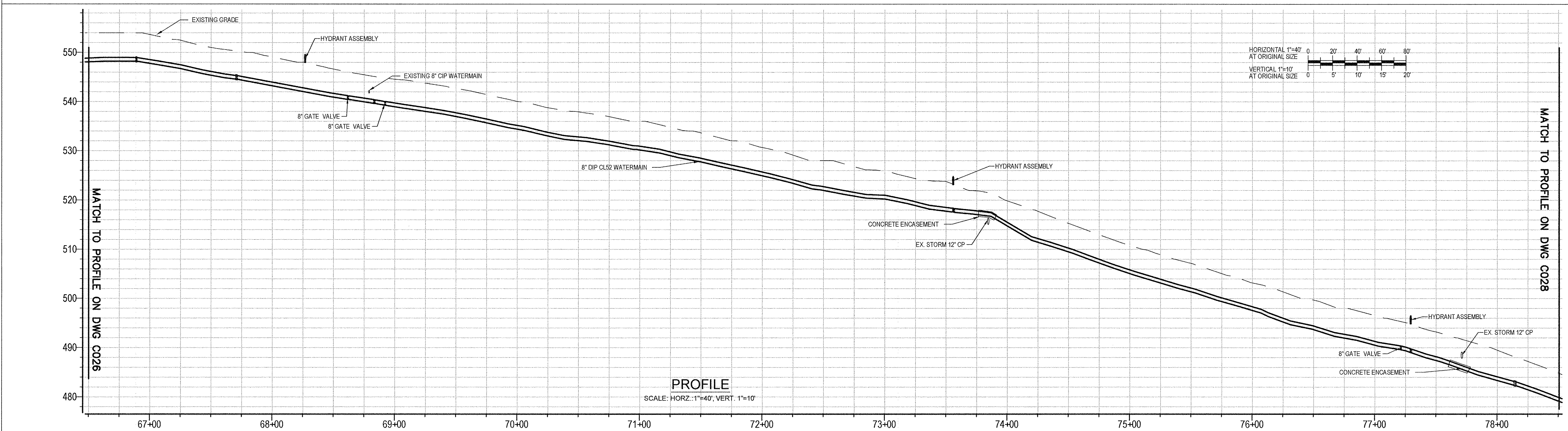
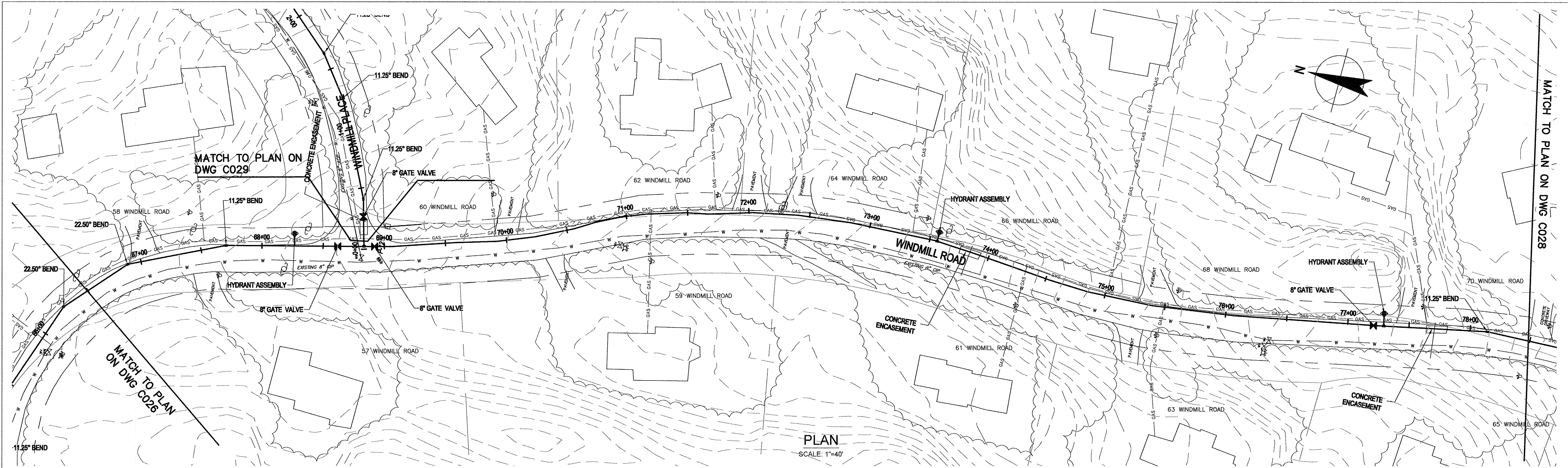
				<div>NOTES:</div> <div>UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.</div>				<div></div> <div></div>	<div></div> <div>GHD Consulting Services Inc.</div> <div>One Remington Park Drive Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5801 E cazzam@ghd.com W www.ghd.com</div>	Drawn JBA	Designer JBA	Client Project Title Contract No. 1 Original Size Ansi D	TOWN OF NORTH CASTLE, NEW YORK WD NO. 2 - DISTRIBUTION SYSTEM REPLACEMENT WINDMILL ROAD PLAN & PROFILE STA. 20+00 - 32+00 Drawing No: 86-16265-C023	Rev: 0
				Drafting Check JBA	Design Check JSS									
				Approved (Project Director) Date										
0	FOR CONSTRUCTION			JBA	JSS	KC	05/14							
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing		Drawn	Job Manager	Project Director	Date	IT IS VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM ON THIS DRAWING IN ANYWAY. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE AND DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.						



								<p>NOTES:</p> <p>UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.</p>								 <p>GHD Consulting Services Inc. One Remington Park Drive Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5801 E cazmail@ghd.com W www.ghd.com</p>				<p>Drawn JBA</p>		<p>Designer JBA</p>		<p>Client Project Title Contract No. 1</p>		<p>TOWN OF NORTH CASTLE, NEW YORK WD NO. 2 - DISTRIBUTION SYSTEM REPLACEMENT WINDMILL ROAD PLAN & PROFILE STA. 44+50 - 56+50</p>	
												<p>Drafting Check JBA</p>		<p>Design Check JSS</p>													
												<p>Approved (Project Director) Date</p>		<p>Original Size Ansi D</p>													
<p>0 FOR CONSTRUCTION</p>				<p>JBA</p>		<p>JSS</p>		<p>KC</p>		<p>05/14</p>		<p>IT IS VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM ON THIS DRAWING IN ANYWAY. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE AND DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.</p>								<p>Scale AS SHOWN</p>		<p>This Drawing shall not be used for Construction unless Signed and Sealed For Construction</p>		<p>Drawing No: 86-16265-C025</p>		<p>Rev: 0</p>	
<p>No Revision Note: * indicates signatures on original issue of drawing or last revision of drawing</p>				<p>Drawn</p>		<p>Job Manager</p>		<p>Project Director</p>		<p>Date</p>		<p>Cad File No: G:\6616265\CADD\Drawings\Civil\86-16265-C021-C030.dwg</p>				<p>Plot Date: 9 May 2014 - 11:33 AM</p>		<p>Plotted by: Joseph Awald</p>									



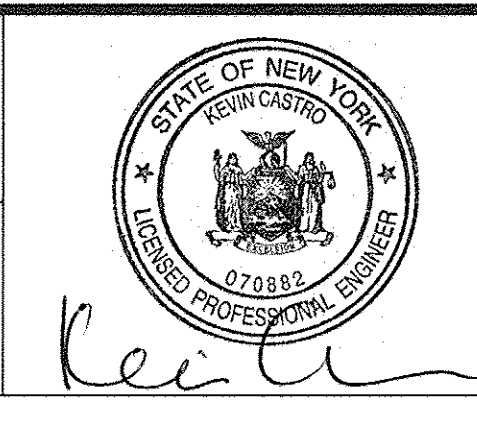
								NOTES:								 GHD Consulting Services Inc. One Remington Park Drive Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5801 E cazmail@ghd.com W www.ghd.com				Drawn JBA		Designer JBA		Client Project Title Contract No. 1 Original Size Ansi D Drawing No: 86-16265-C026		Rev: 0	
								UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.												Drafting Check JBA		Design Check JSS					
								IT IS VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM ON THIS DRAWING IN ANYWAY. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE AND DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.								Approved (Project Director) Date				WINDMILL ROAD PLAN & PROFILE STA. 56+50 - 66+50		WINDMILL ROAD PLAN & PROFILE STA. 56+50 - 66+50					
0 FOR CONSTRUCTION				JBA		JSS		KC		05/14						Scale AS SHOWN				This Drawing shall not be used for Construction unless Signed and Sealed For Construction		WINDMILL COURT PLAN & PROFILE STA. 0+00 - 1+68		WINDMILL COURT PLAN & PROFILE STA. 0+00 - 1+68			
No		Revision		Note: * Indicates signatures on original issue of drawing or last revision of drawing				Drawn		Job Manager		Project Director		Date													
Plot Date: 9 May 2014 - 11:34 AM								Plotted by: Joseph Awald		Cad File No: G:\86\16265\CADD\Drawings\Civil\86-16265-C021-C030.dwg																	



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No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing			Drawn	Job Manager	Project Director	Date
Plot Date: 9 May 2014 - 11:34 AM					Plotted by: Joseph Awald		Cad File No: G:\6616265\CADD\Draw	

NOTES:
UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

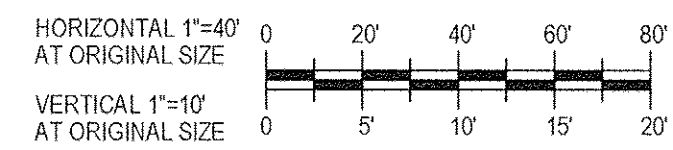
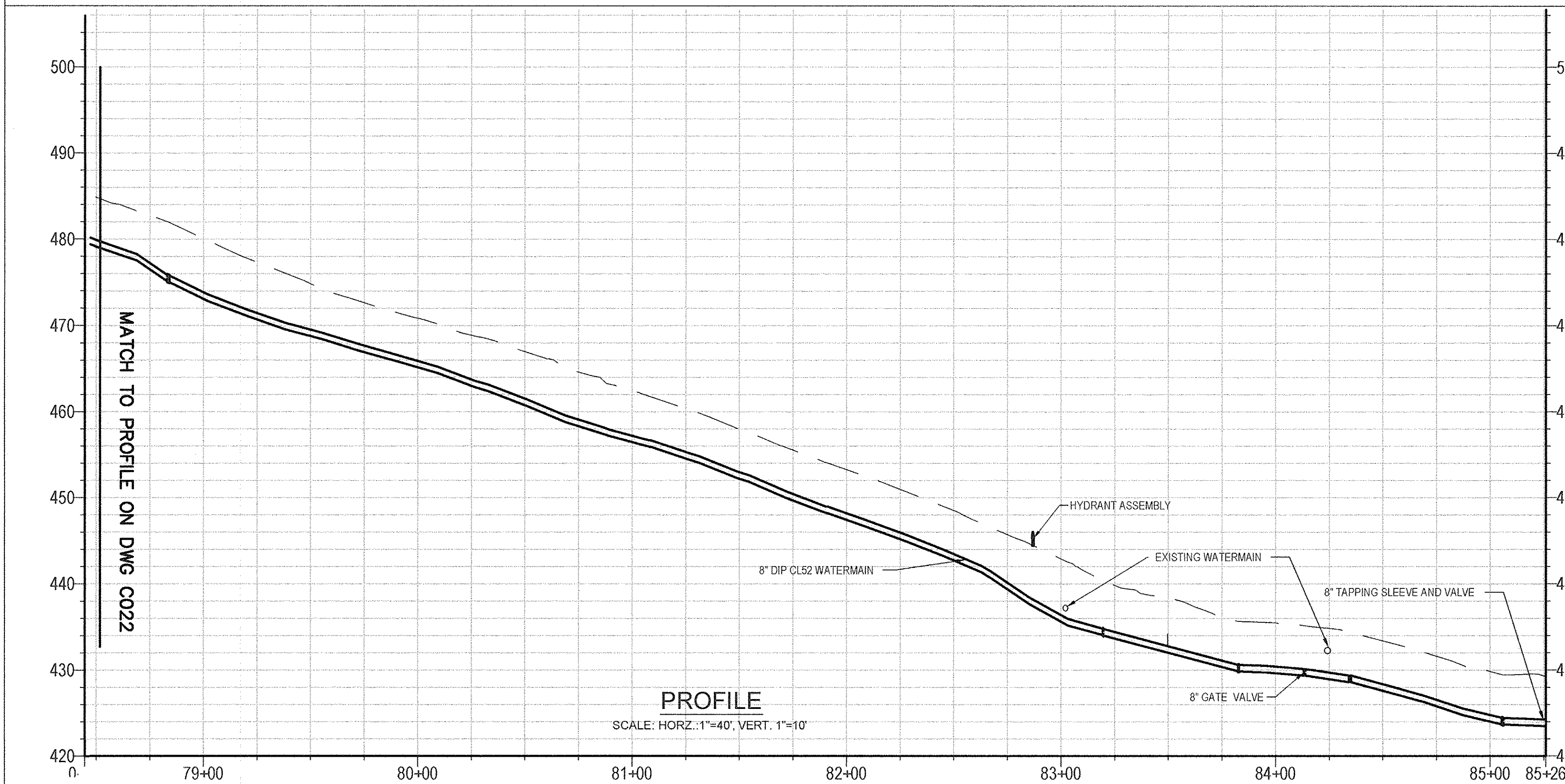
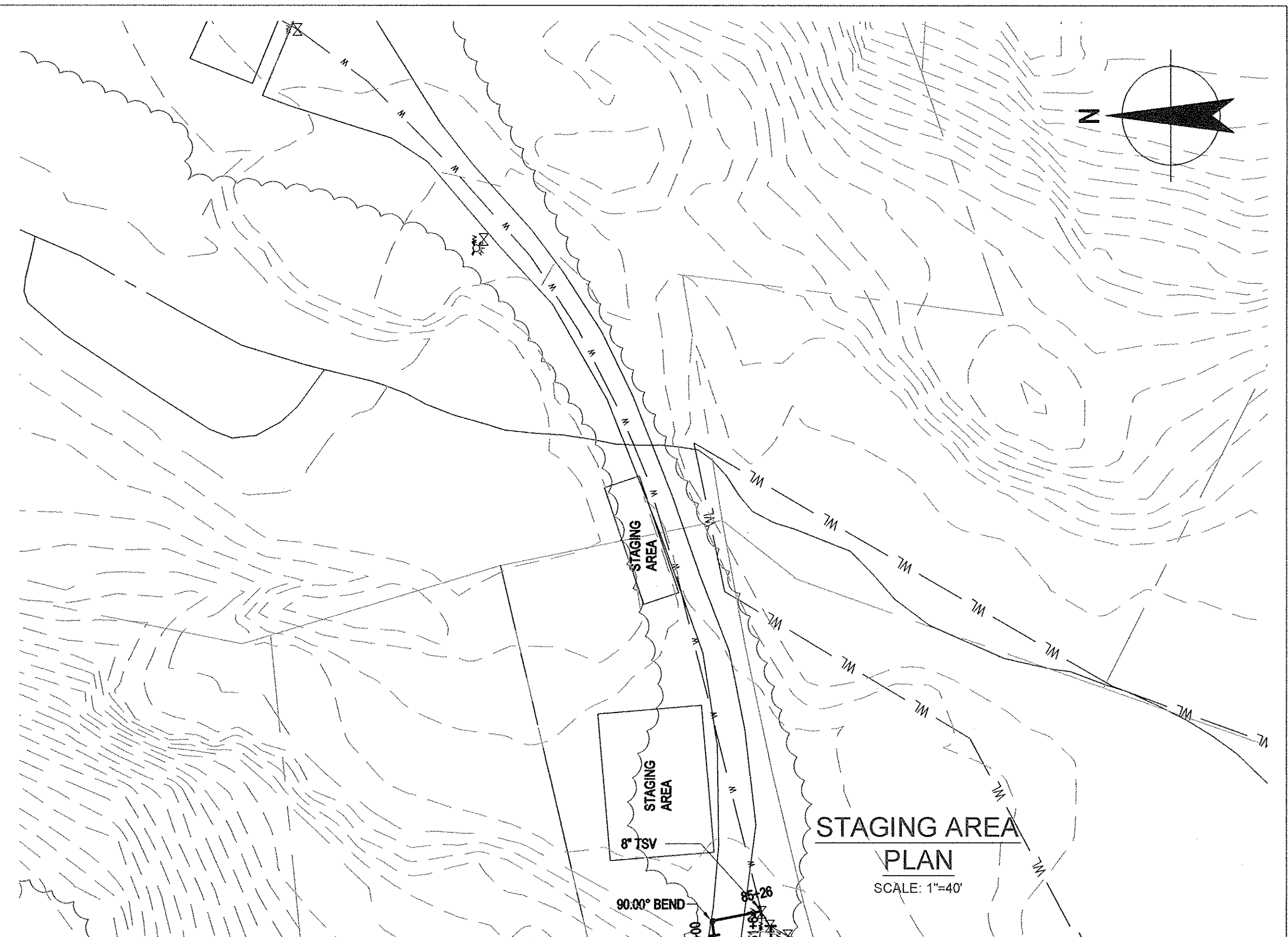
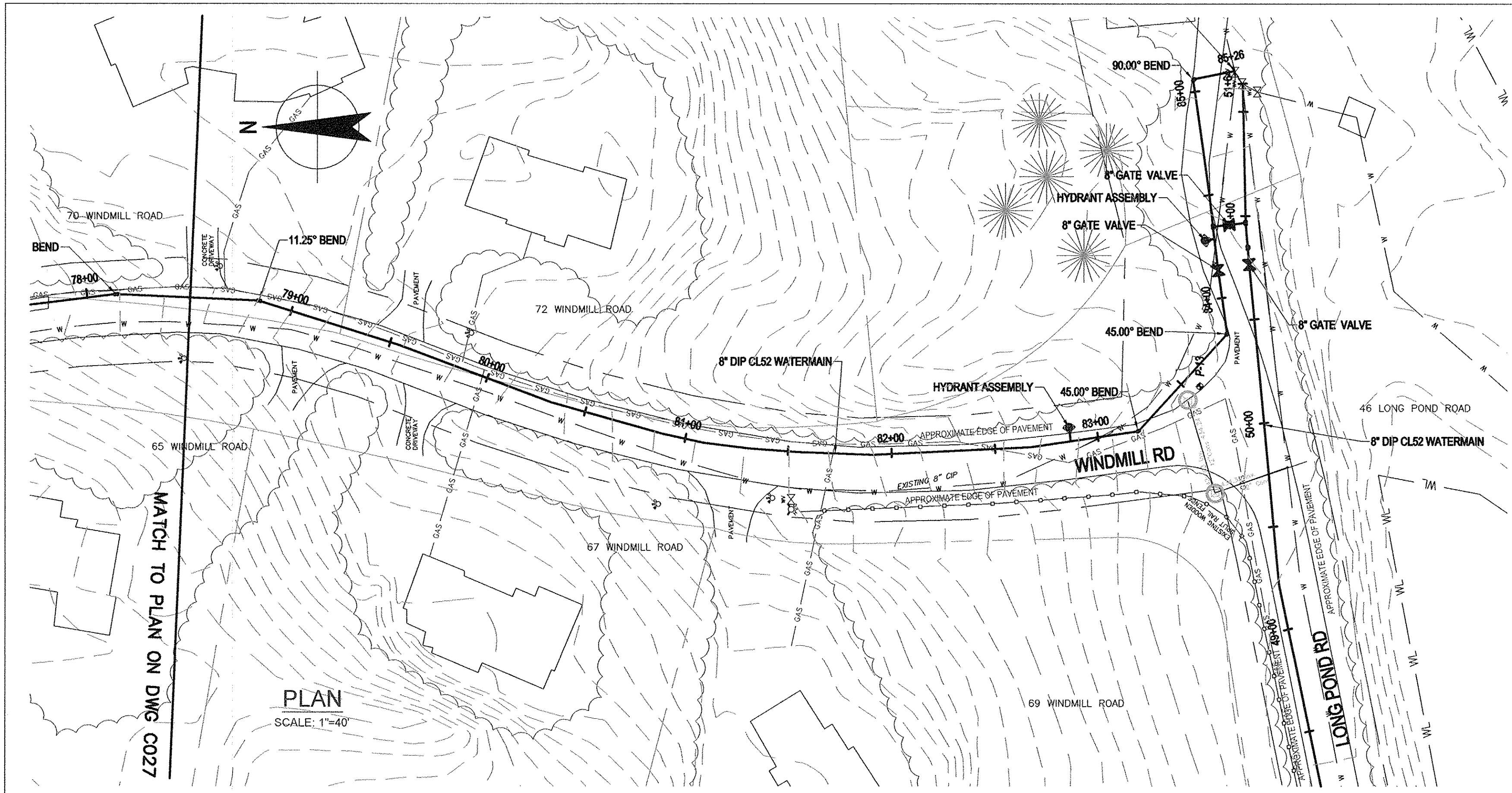
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GHD Consulting Services Inc.
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Drawn JBA	Designer JBA
Drafting Check JBA	Design Check JSS
Approved (Project Director) Date	<i>Kevin A. Walcott</i>
Scale AS SHOWN	This Drawing shall not be used for Construction unless Signed and Sealed For Construction

Client	TOWN OF NORTH CASTLE, NEW YORK
Project	WD NO. 2 - DISTRIBUTION SYSTEM REPLACEMENT
Title	WINDMILL ROAD PLAN & PROFILE STA. 66+50 - 78+50
Contract No.	1
Original Size	ANSI D
Drawing No:	86-16265-C027
Rev:	0

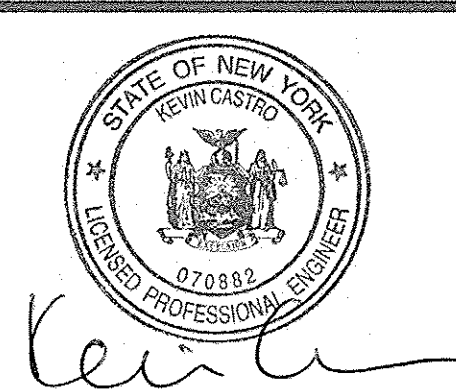


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No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing		Drawn	Job Manager	Project Director	Date

NOTES:

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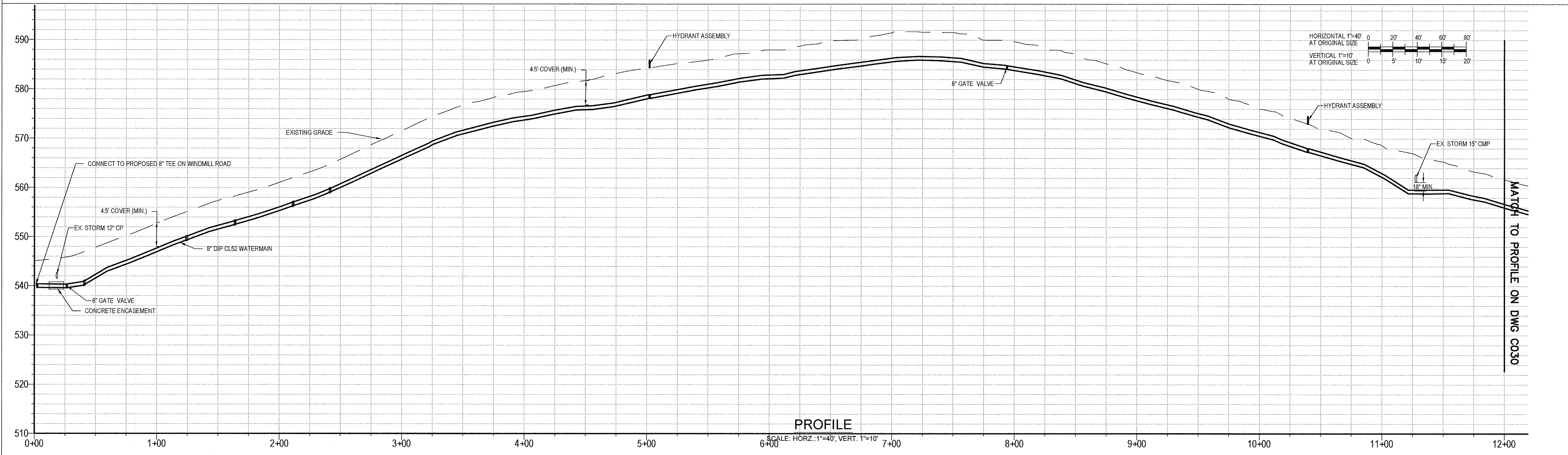
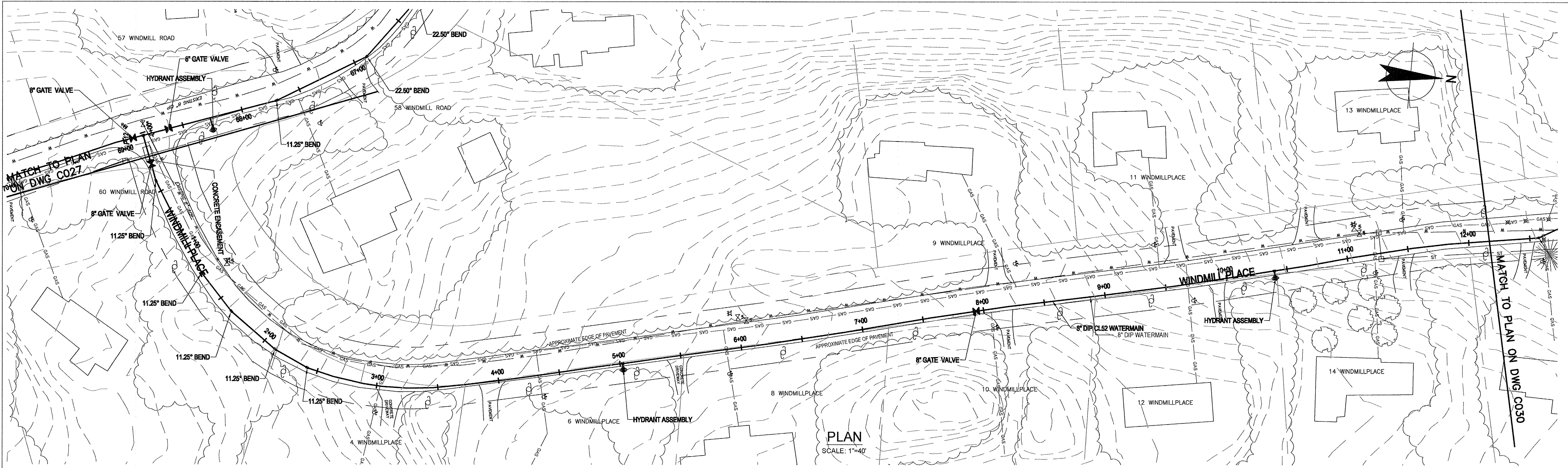
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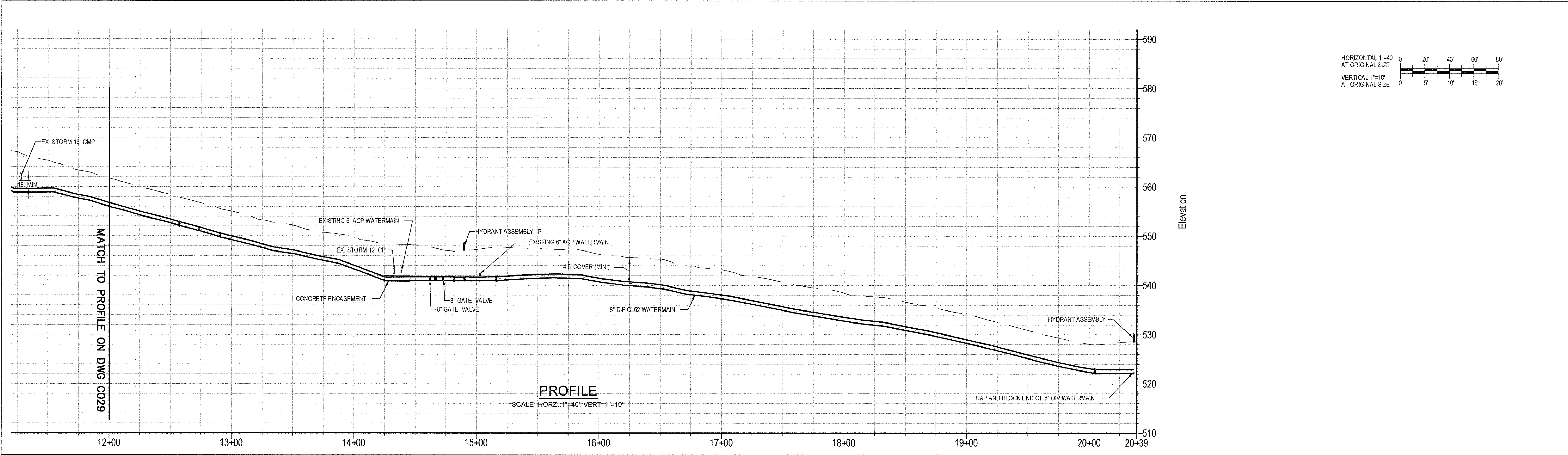
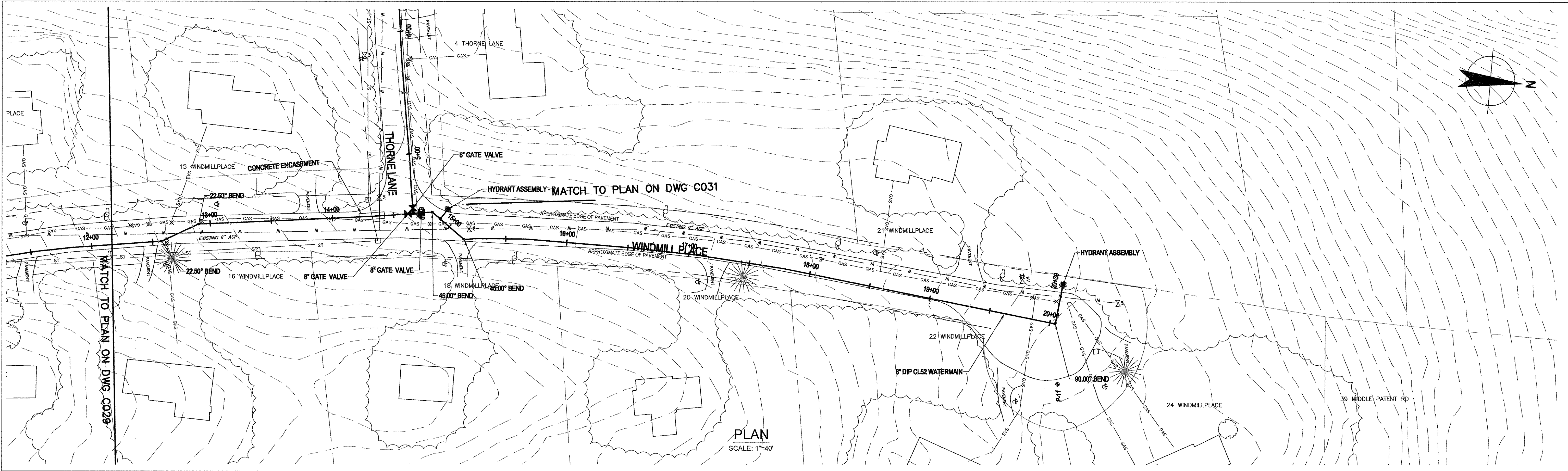
One Remington Park Drive
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Drawn JBA	Designer JBA
Drafting Check JBA	Design Check JSS
Approved (Project Director) Date	
Scale AS SHOWN	This Drawing shall not be used for Construction unless Signed and Sealed For Construction

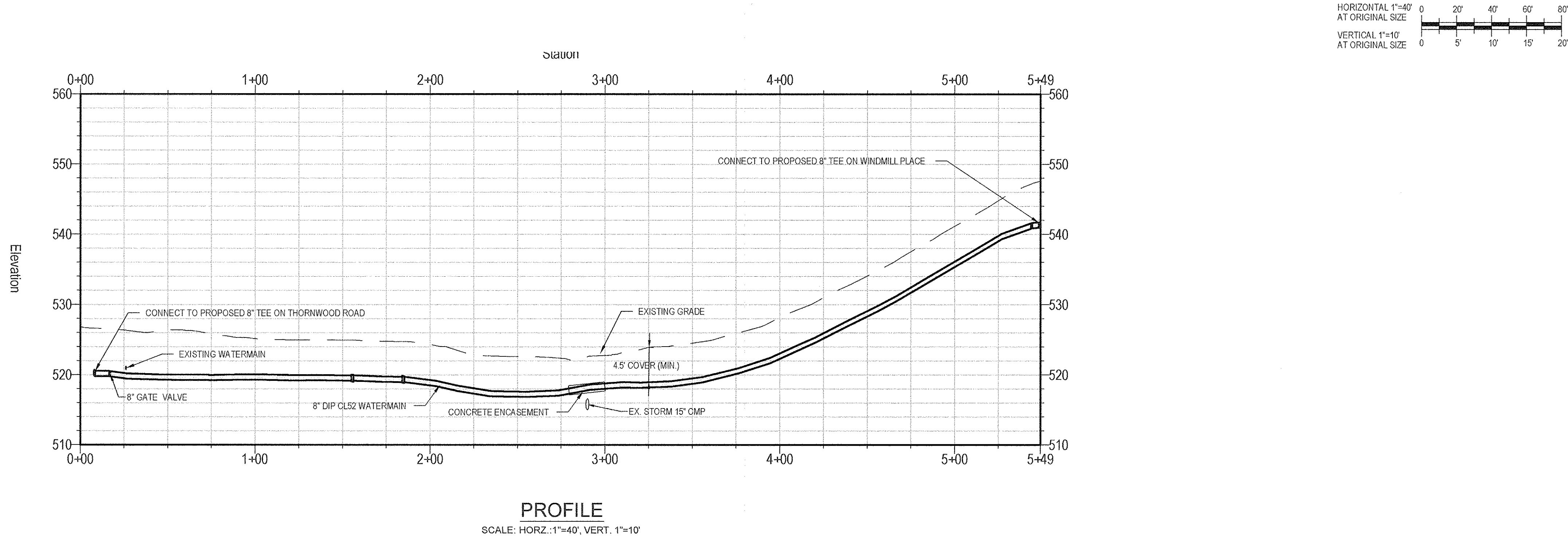
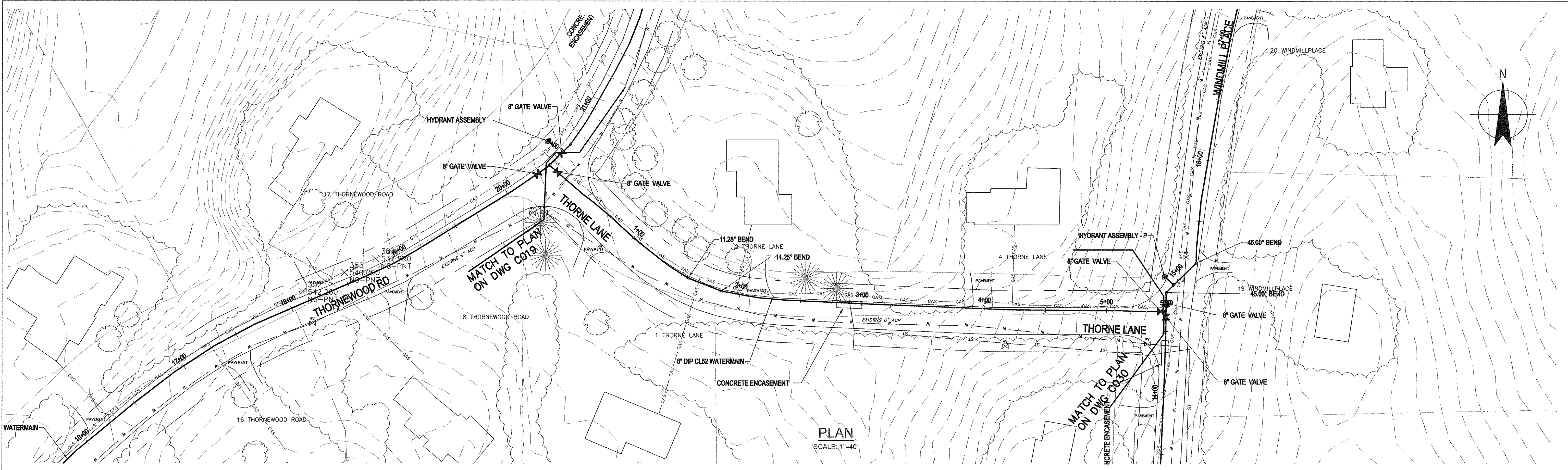
Client	TOWN OF NORTH CASTLE, NEW YORK
Project	WD NO. 2 - DISTRIBUTION SYSTEM REPLACEMENT
Title	WINDMILL ROAD PLAN & PROFILE STA. 78+50 - 85+52
Contract No.	1
Original Size	ANSI D
Drawing No.	86-16265-C028
Rev.	0



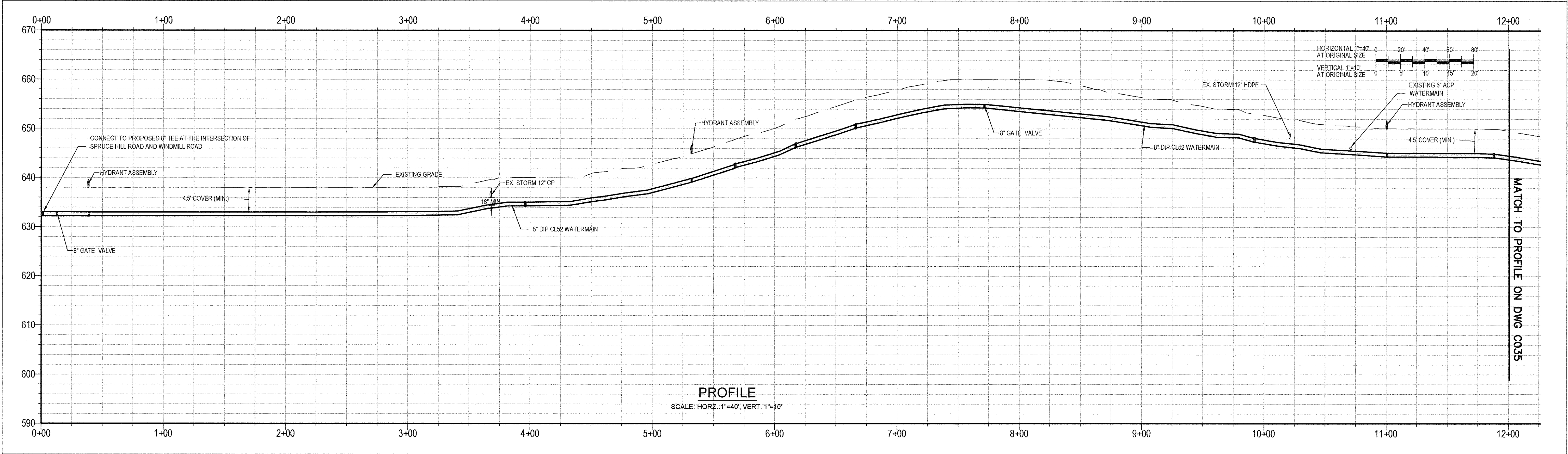
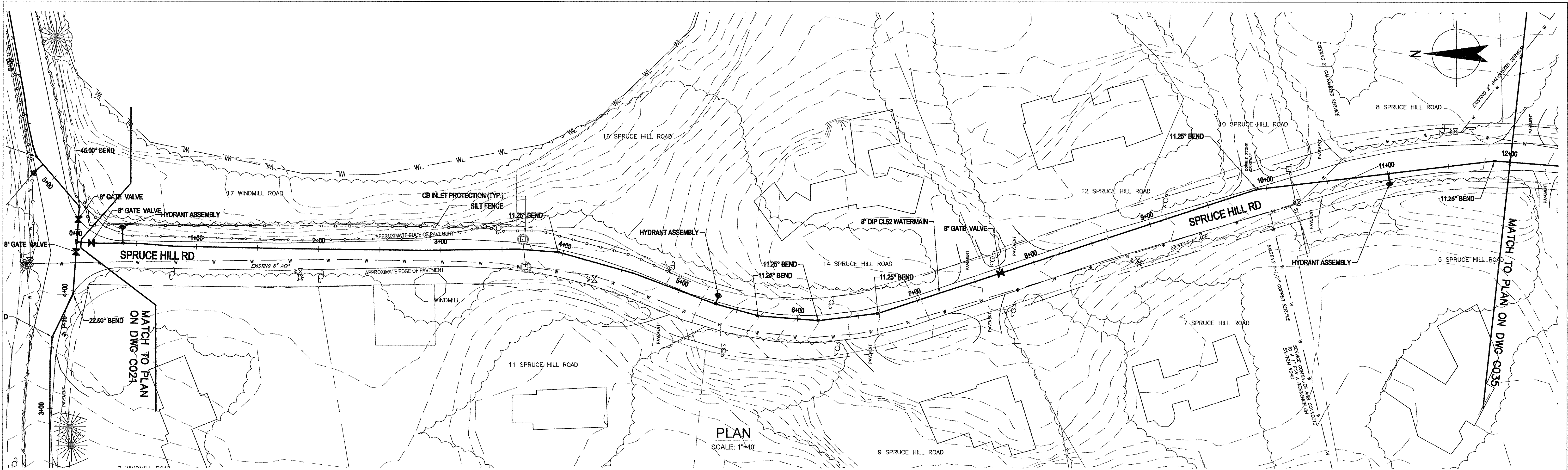
									NOTES:			<div></div> <div></div>			<div></div> <div>GHD Consulting Services Inc. One Remington Park Drive Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5801 E cazmail@ghd.com W www.ghd.com</div>			Drawn JBA		Designer JBA		Client		TOWN OF NORTH CASTLE, NEW YORK WD NO. 2 - DISTRIBUTION SYSTEM REPLACEMENT WINDMILL PLACE PLAN & PROFILE STA. 0+00 - 12+00																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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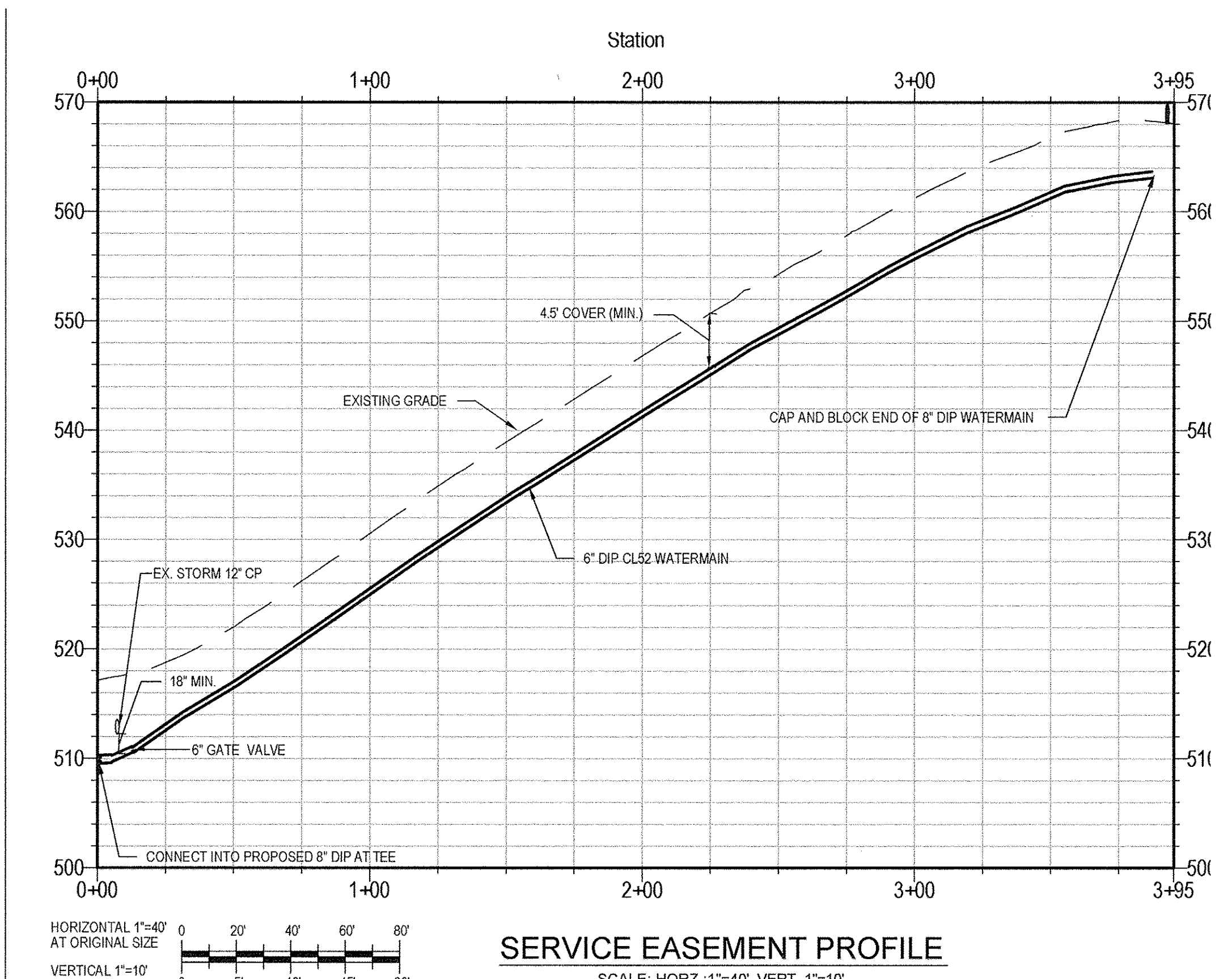
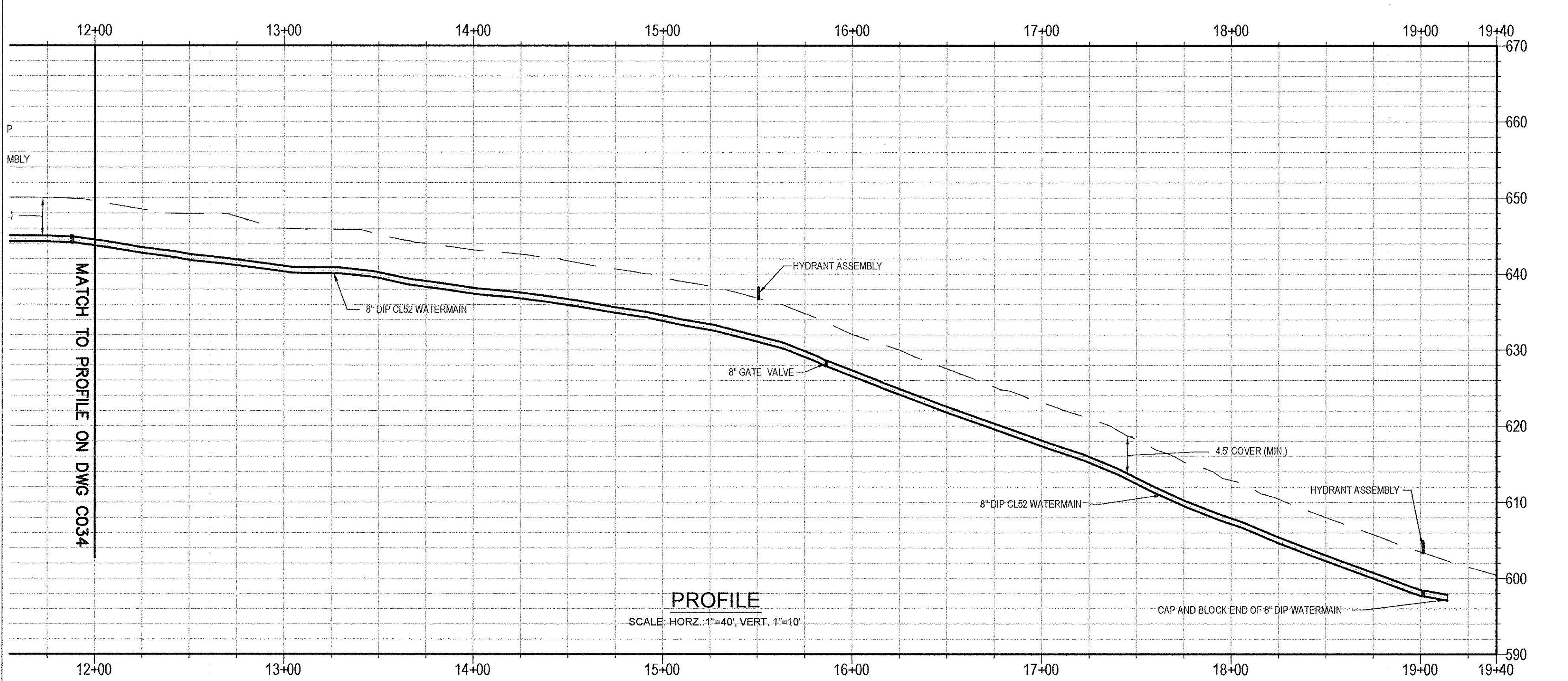
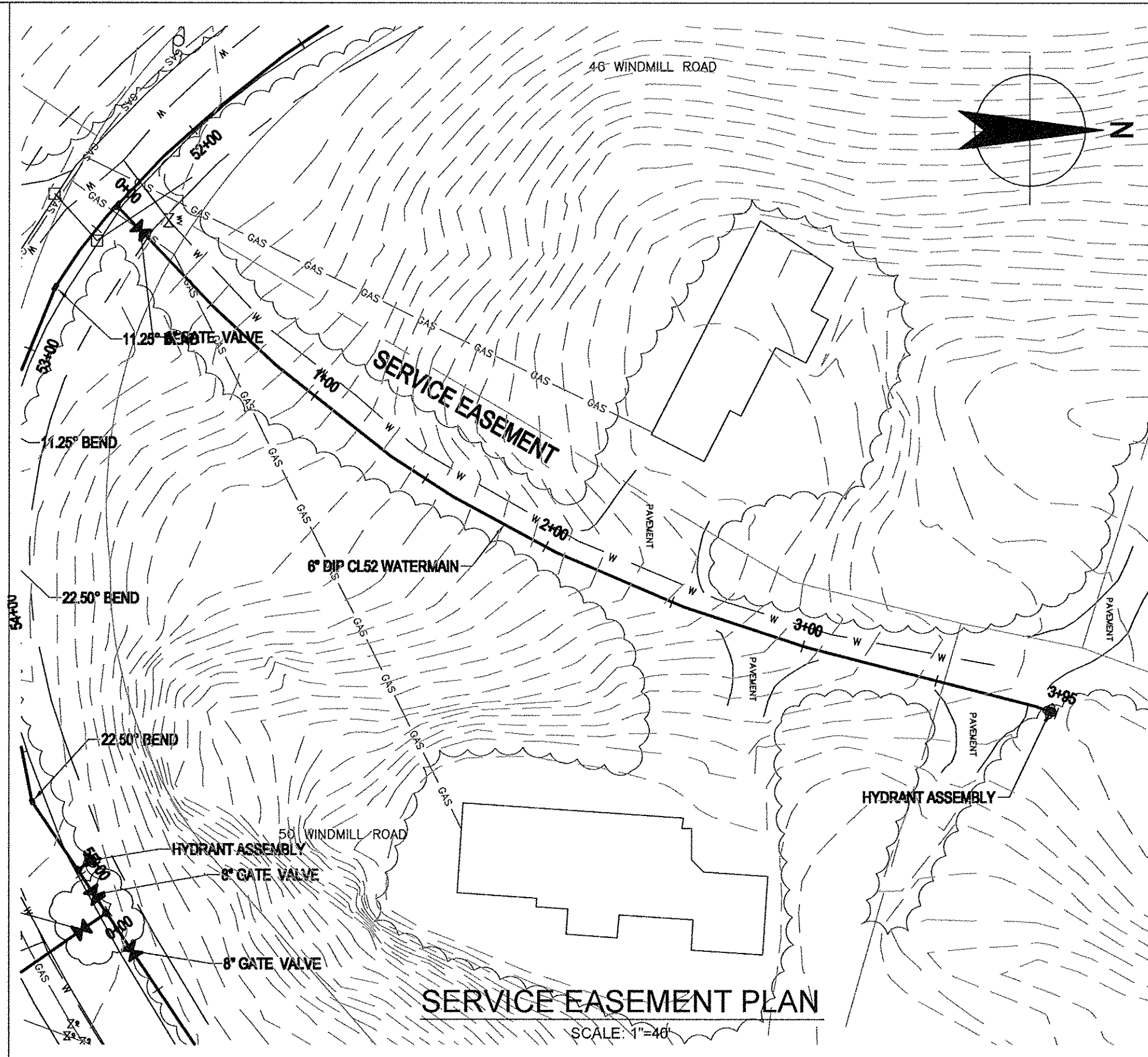
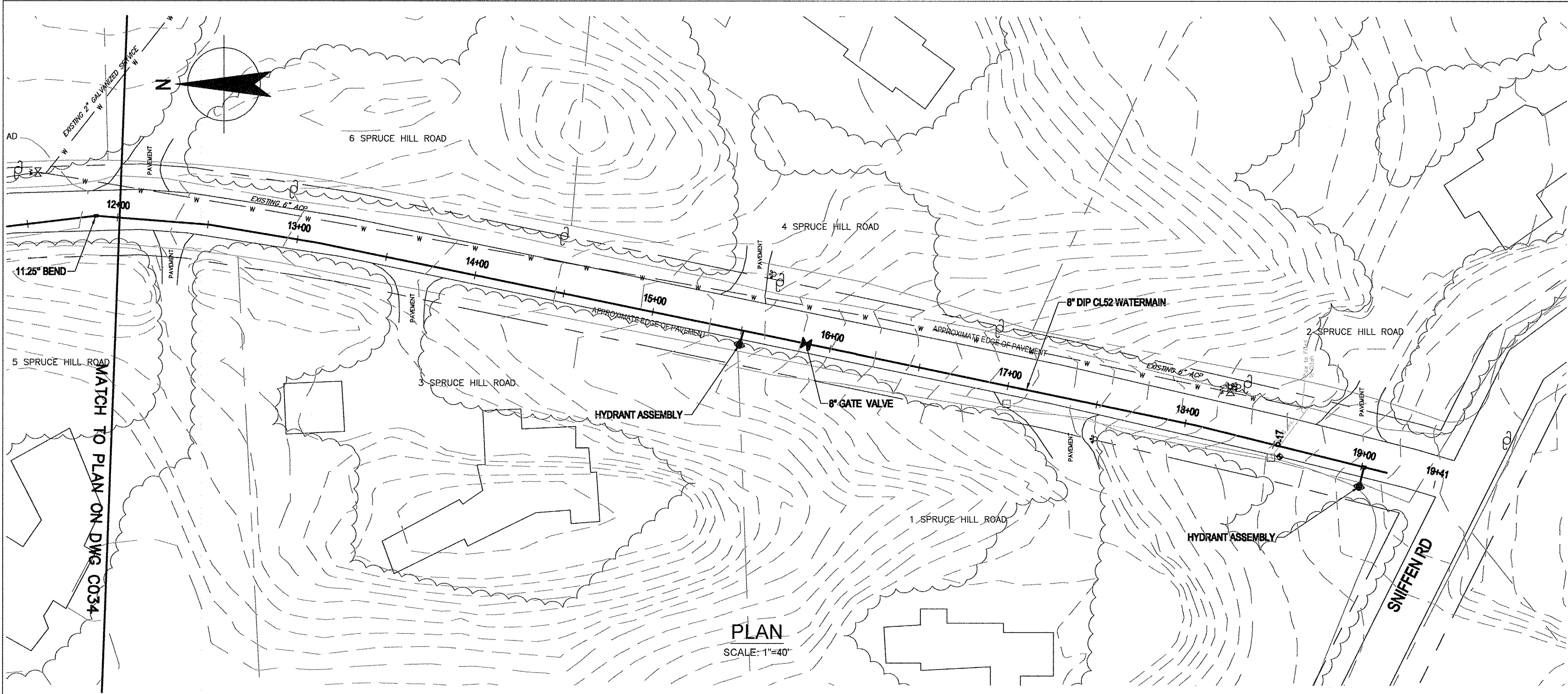
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						IT IS VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM ON THIS DRAWING IN ANYWAY. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE AND DATE OF SUCH SEALATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.					Drafting JBA		Design Check JSS				
0 FOR CONSTRUCTION			JBA	JSS	KC	05/14					Approved (Project Director) 						
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date				Date		Scale AS SHOWN		This Drawing shall not be used for Construction unless Signed and Sealed For Construction			
Plot Date: 9 May 2014 - 12:40 PM			Plotted by: Joseph Awald			Cad File No: G:\96\16265\CADD\Drawings\Civil\86-16265-C031-C040.dwg											

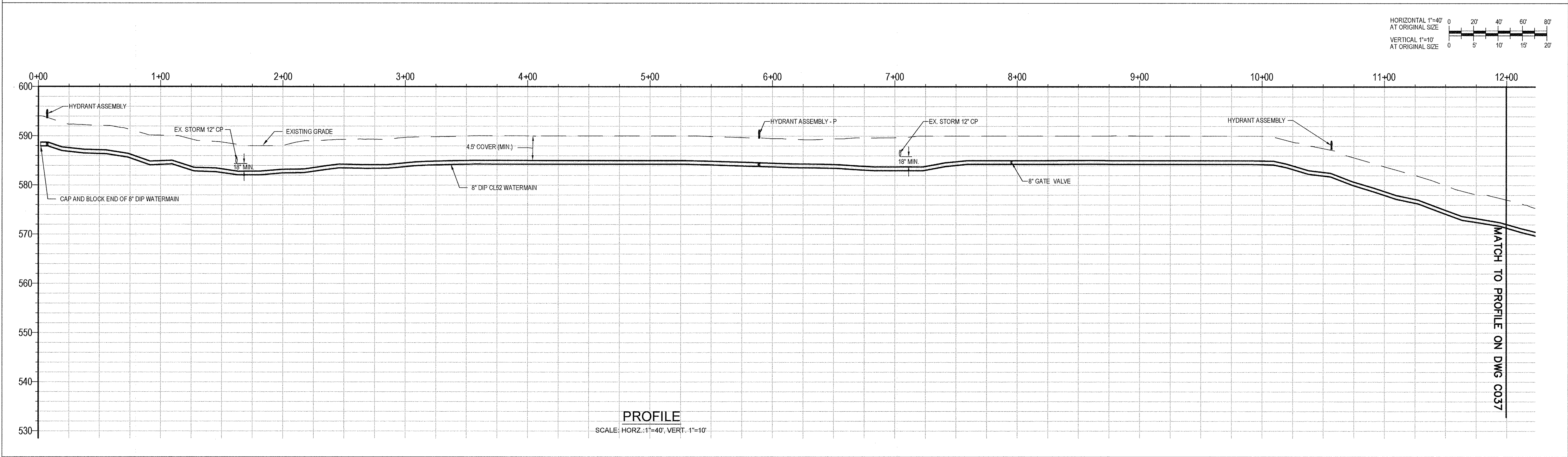
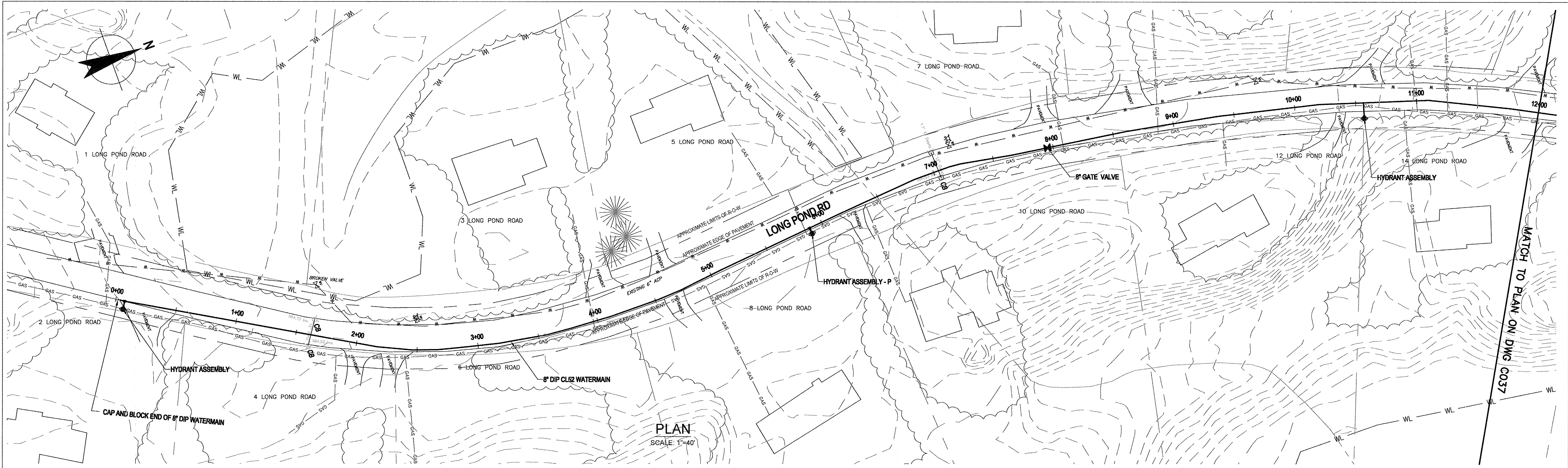


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No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing		Drawn	Job Manager	Project Director	Date
Plot Date: 9 May 2014 - 12:41 PM				Plotted by: Joseph Awald			
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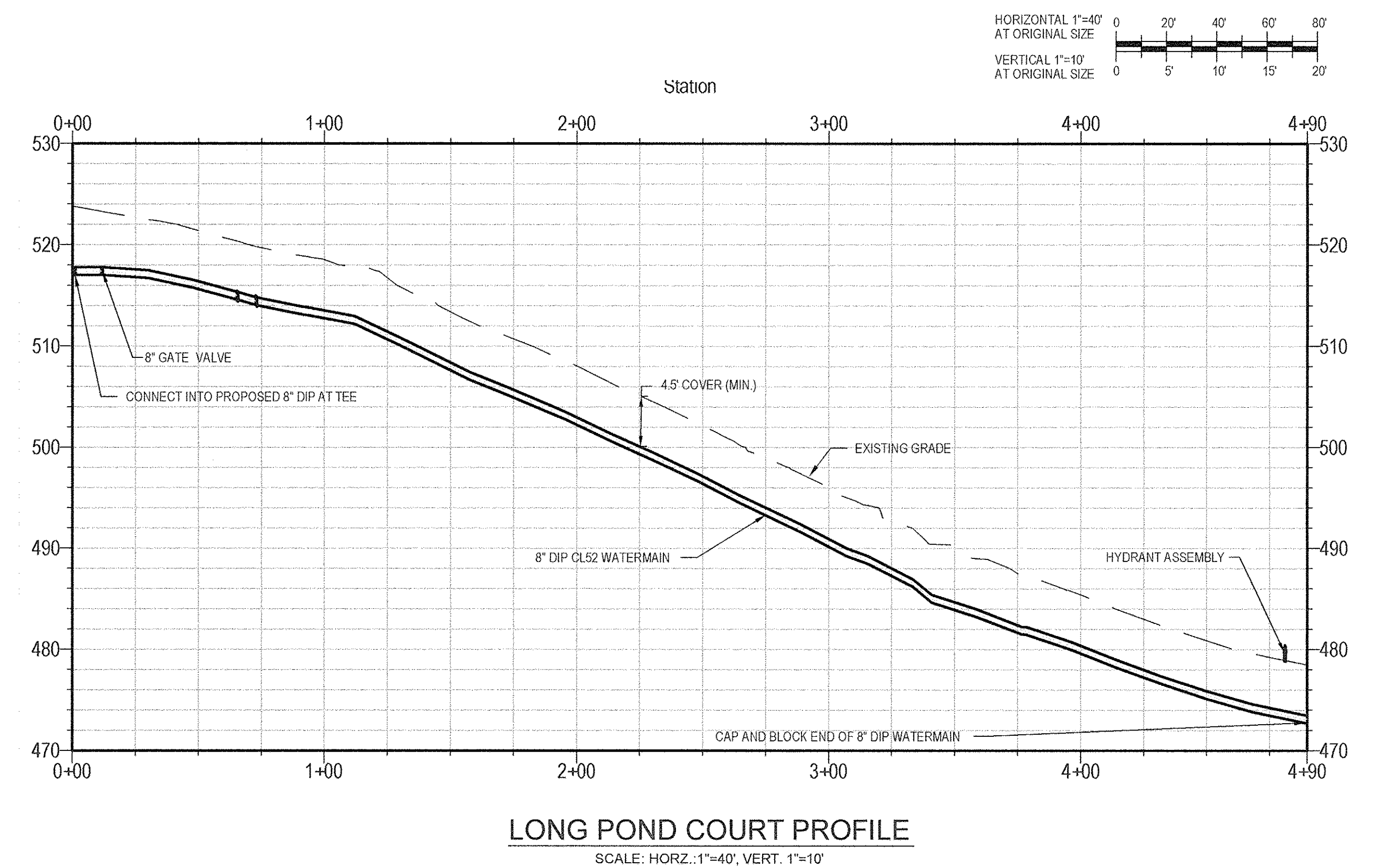
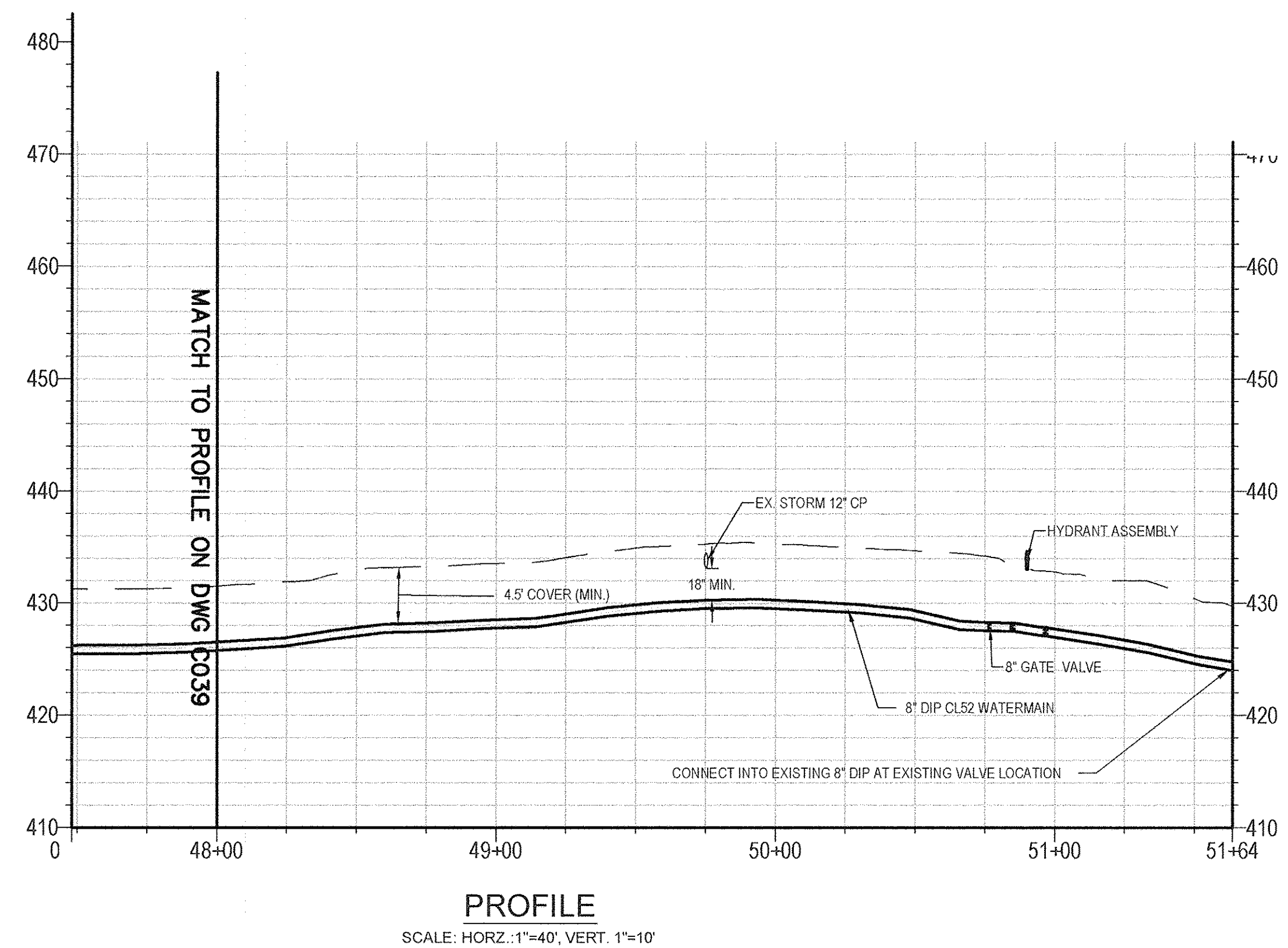
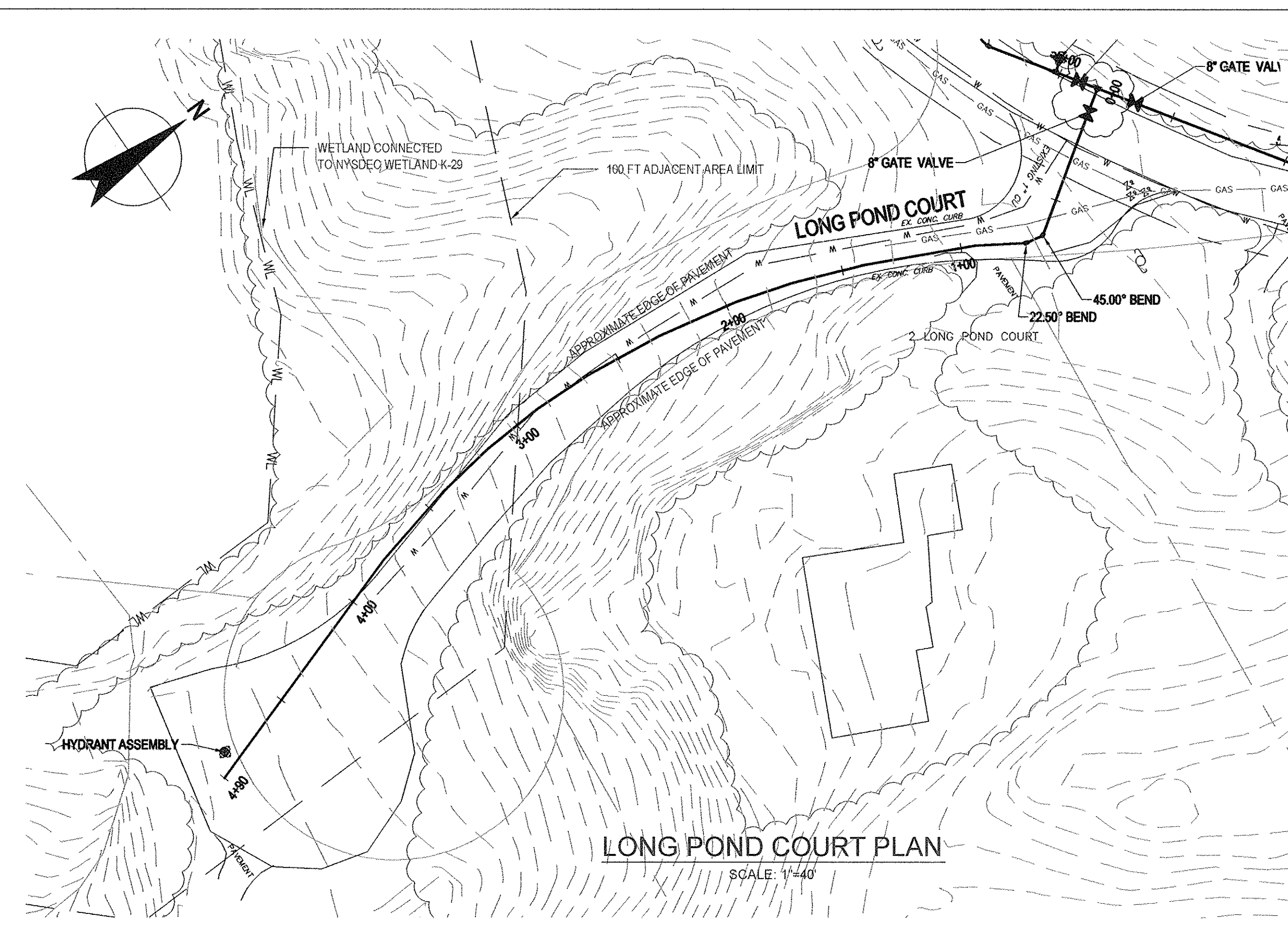
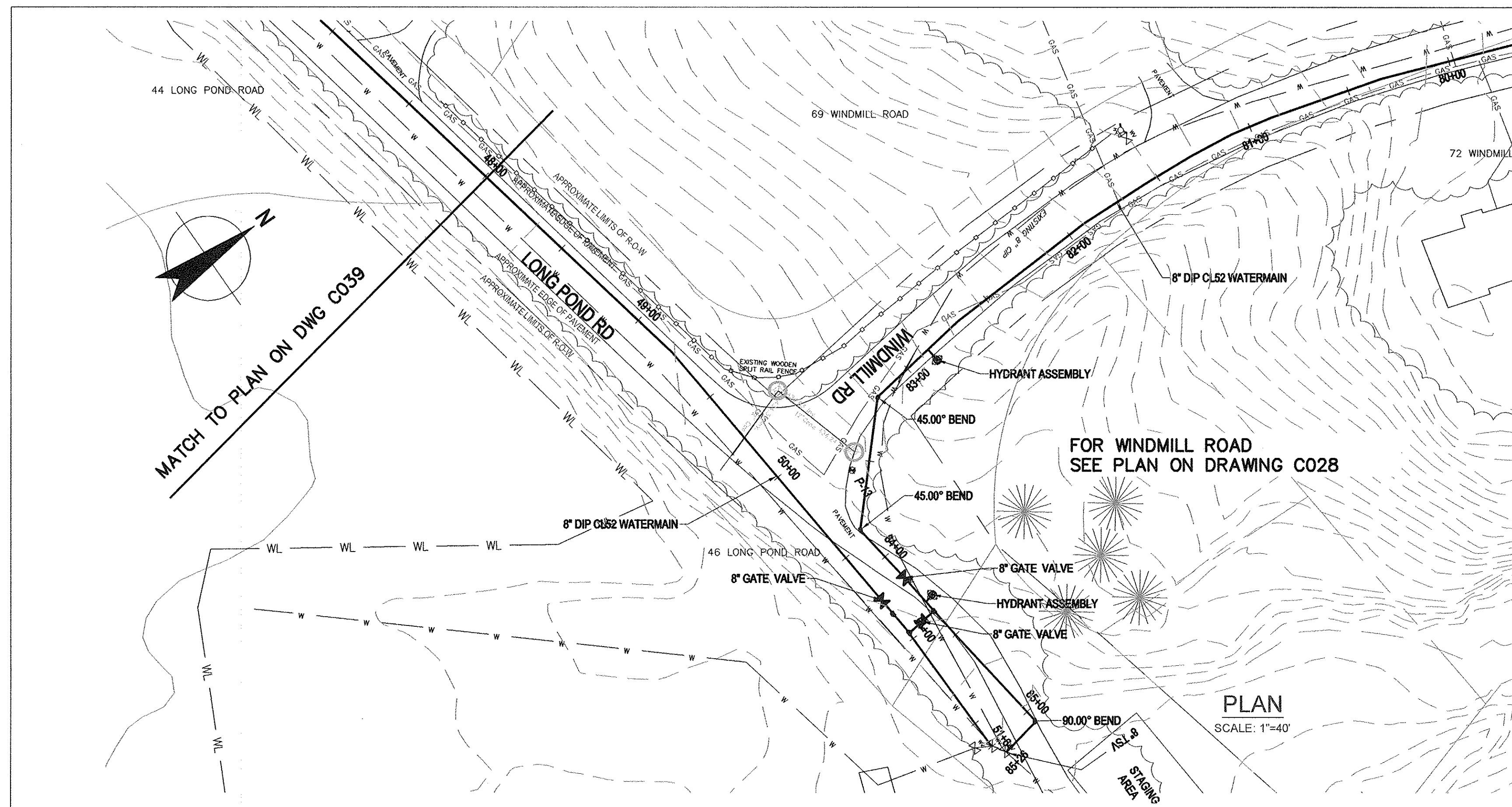
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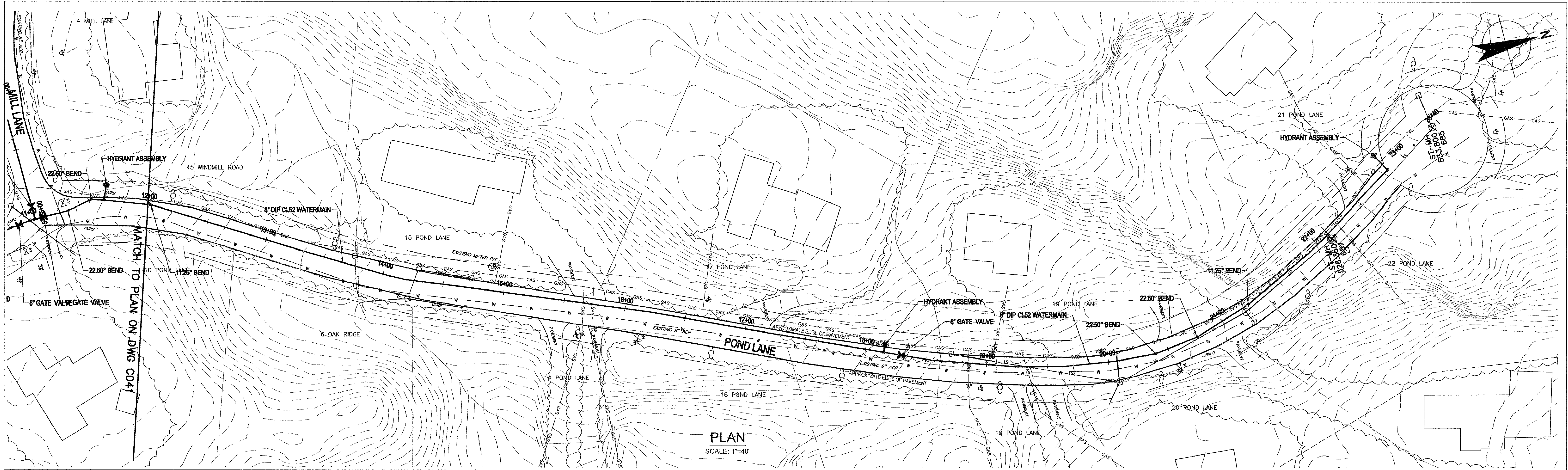
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				GHD Consulting Services Inc. One Remington Park Drive Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5801 E cazmail@ghd.com W www.ghd.com	
Drawn	JBA	Designer	JBA	Client	TOWN OF NORTH CASTLE, NEW YORK
Drafting Check	JBA	Design Check	JSS	Project	WD NO. 2 - DISTRIBUTION SYSTEM REPLACEMENT
Approved (Project Director)					Title
Date					SPRUCE HILL RD PLAN & PROFILE STA. 12+00 - 19+20
Scale	AS SHOWN				SERVICE EASEMENT PLAN & PROFILE STA. 0+00-3+95
This Drawing shall not be used for Construction unless Signed and Sealed For Construction				Contract No. 1	Original Size
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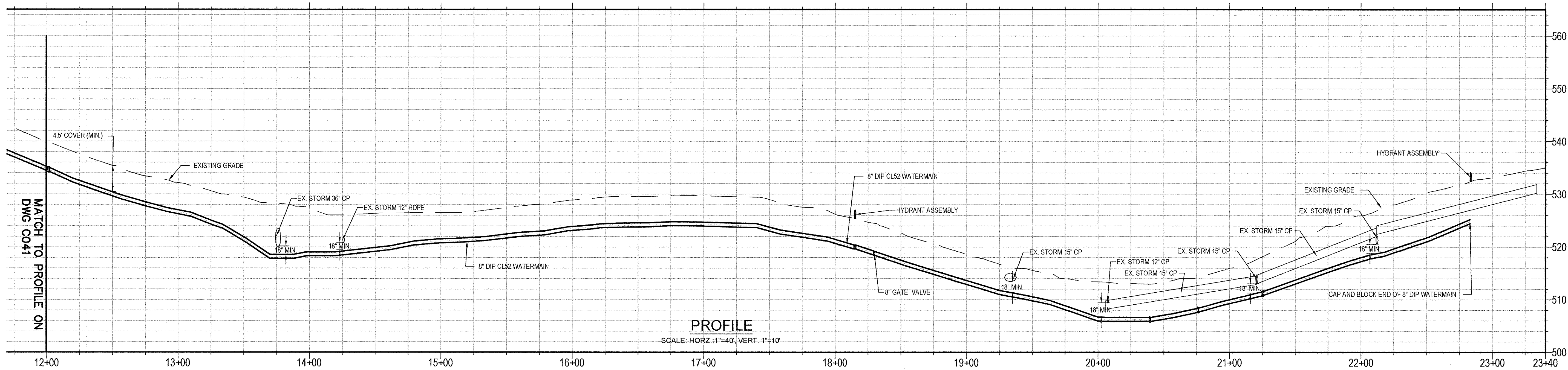
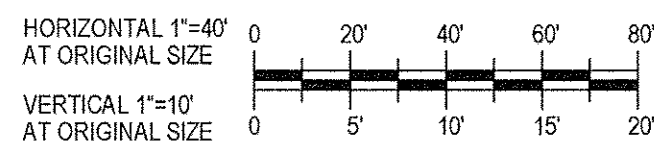


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<div>0 FOR CONSTRUCTION</div>				<div>JBA</div>	<div>JSS</div>	<div>KC</div>	<div>05/14</div>			<div>Date</div>	<div>Scale AS SHOWN</div>		<div>This Drawing shall not be used for Construction unless Signed and Sealed For Construction</div>
<div>No Revision Note: * indicates signatures on original issue of drawing or last revision of drawing</div>				<div>Drawn</div>	<div>Job Manager</div>	<div>Project Director</div>	<div>Date</div>						
<div>Plot Date: 9 May 2014 - 12:41 PM</div>				<div>Plotted by: Joseph Avaldi</div>				<div>Cad File No: G:\8616265\CADD\Drawings\Civil\86-16265-C031-C040.dwg</div>					

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PLAN
SCALE: 1"=40'



PROFILE
SCALE: HORZ.: 1"=40'; VERT. 1"=10'

0 FOR CONSTRUCTION		JBA	JSS	KC	05/14
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing			
Drawn	Job Manager	Project Director	Date		

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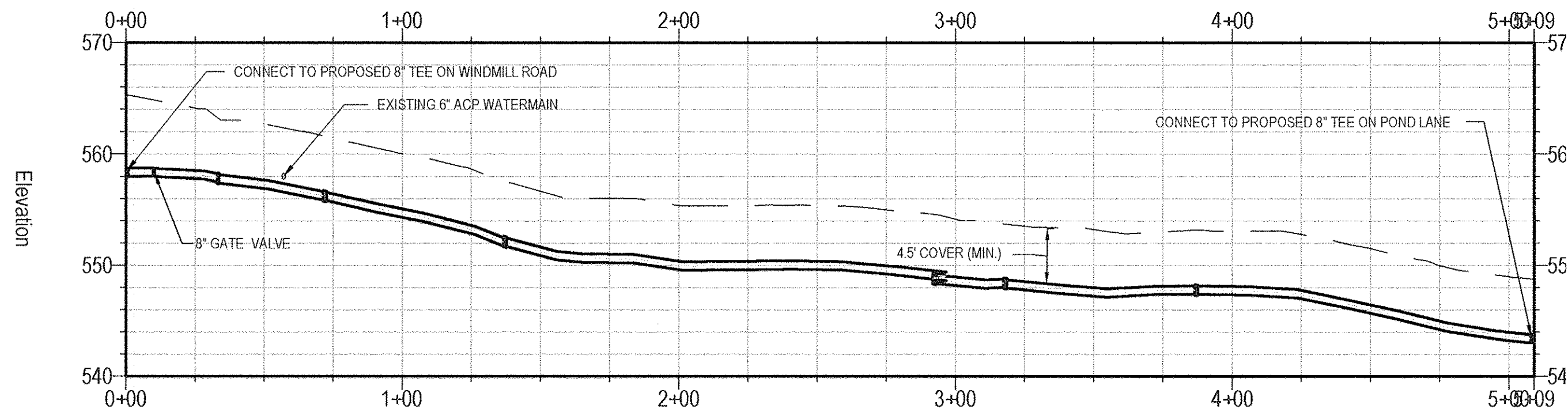
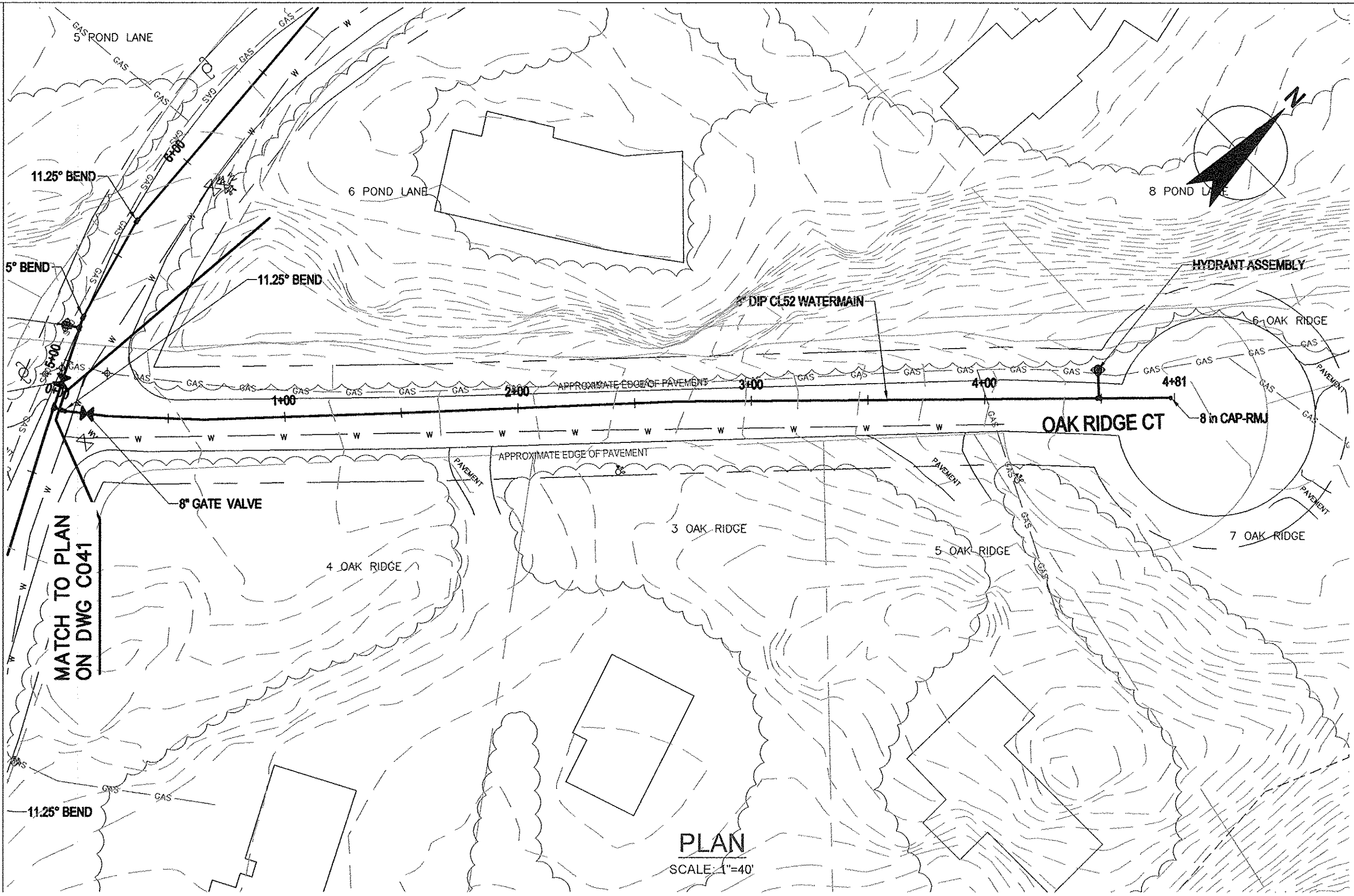
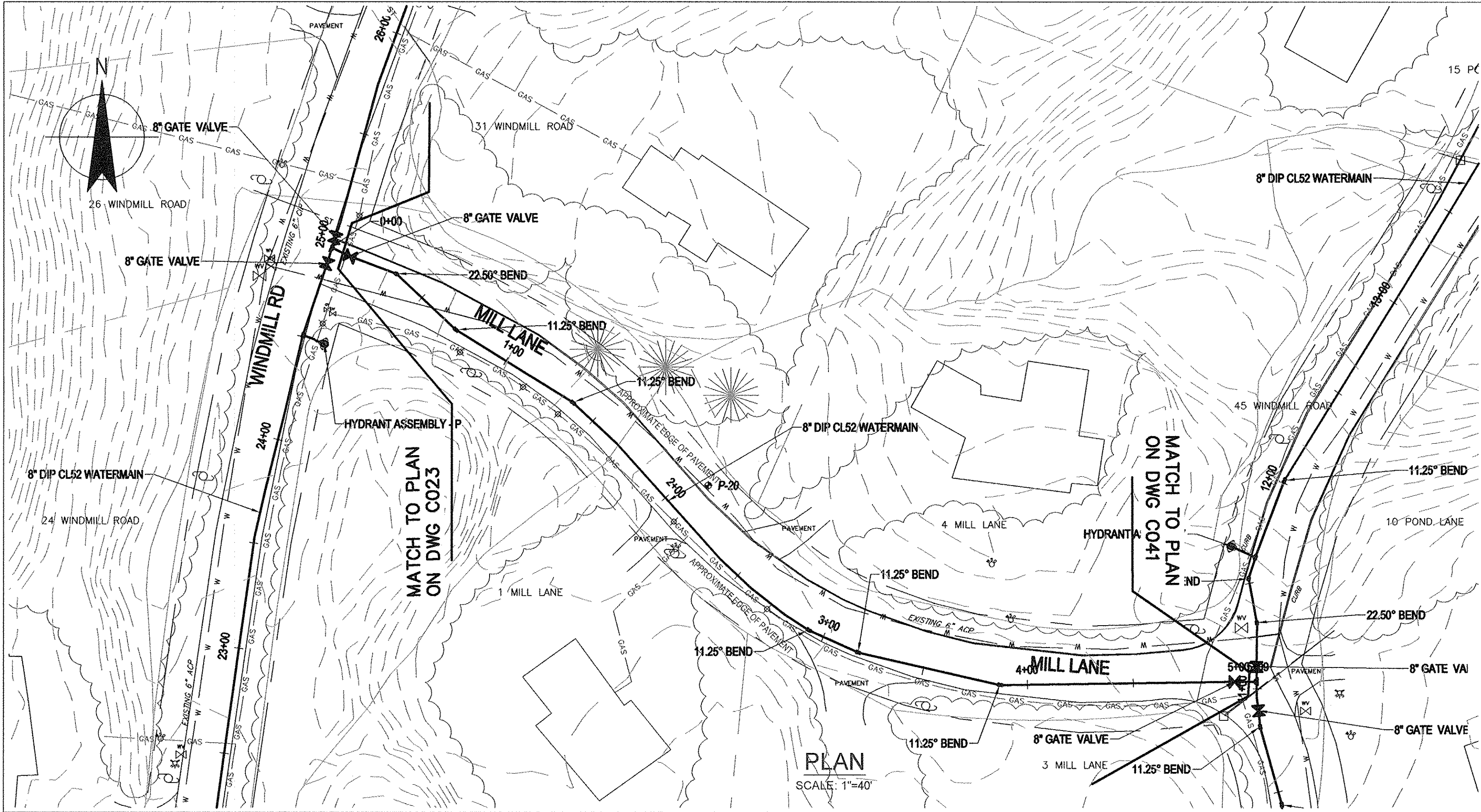
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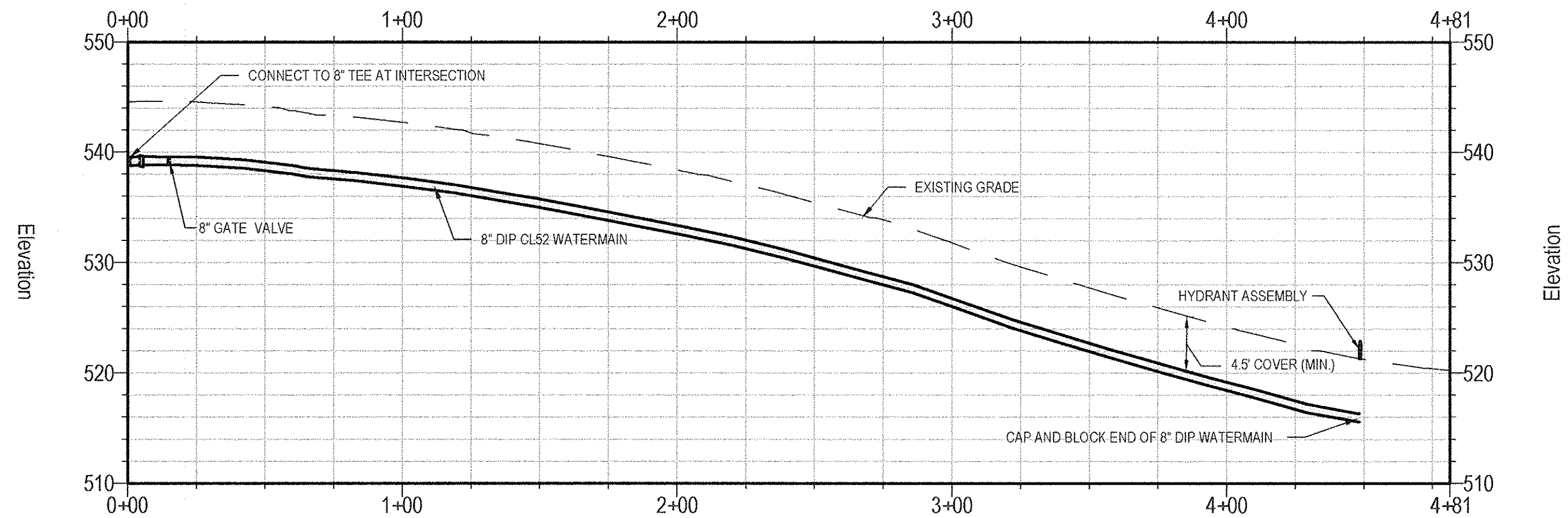
GHD Consulting Services Inc.
One Remington Park Drive
Cazenovia NY 13035 USA
T 1 315 679 5800 F 1 315 679 5801
E cazmail@ghd.com W www.ghd.com

Drawn	JBA	Designer	JBA
Drafting Check	JBA	Design Check	JSS
Approved (Project Director)			
Date			
Scale	AS SHOWN		

Client	TOWN OF NORTH CASTLE, NEW YORK		
Project	WD NO. 2 - DISTRIBUTION SYSTEM REPLACEMENT		
Title	POND LANE PLAN & PROFILE STA. 12+00 - 23+42		
Contract No.	1		
Original Size	Ansi D		
Drawing No:	86-16265-C042		
Rev:	0		

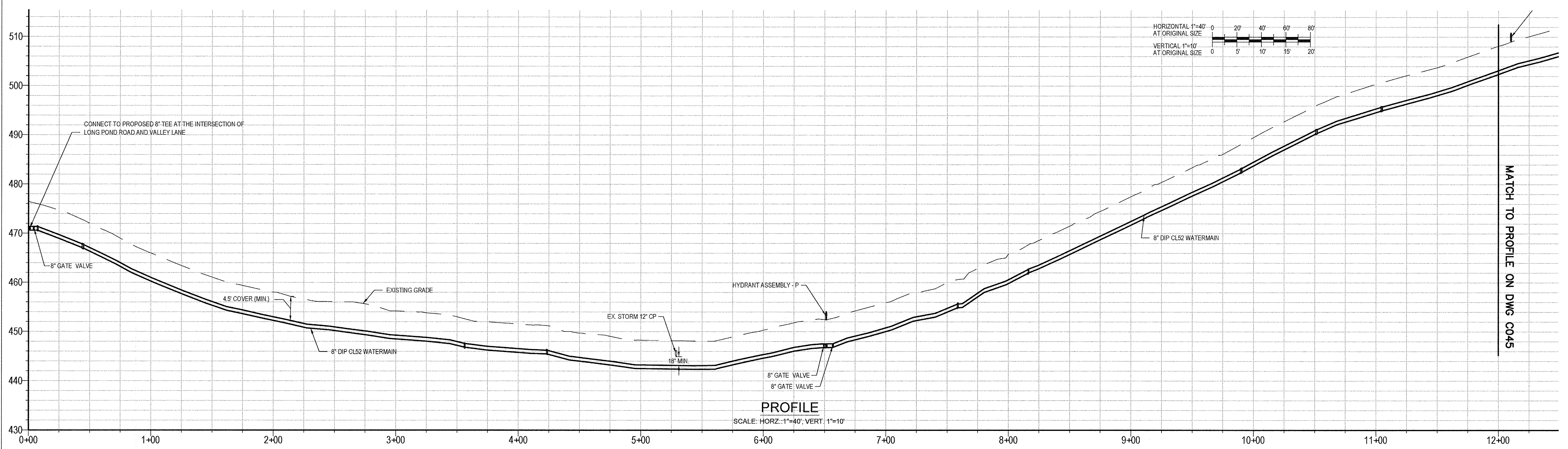
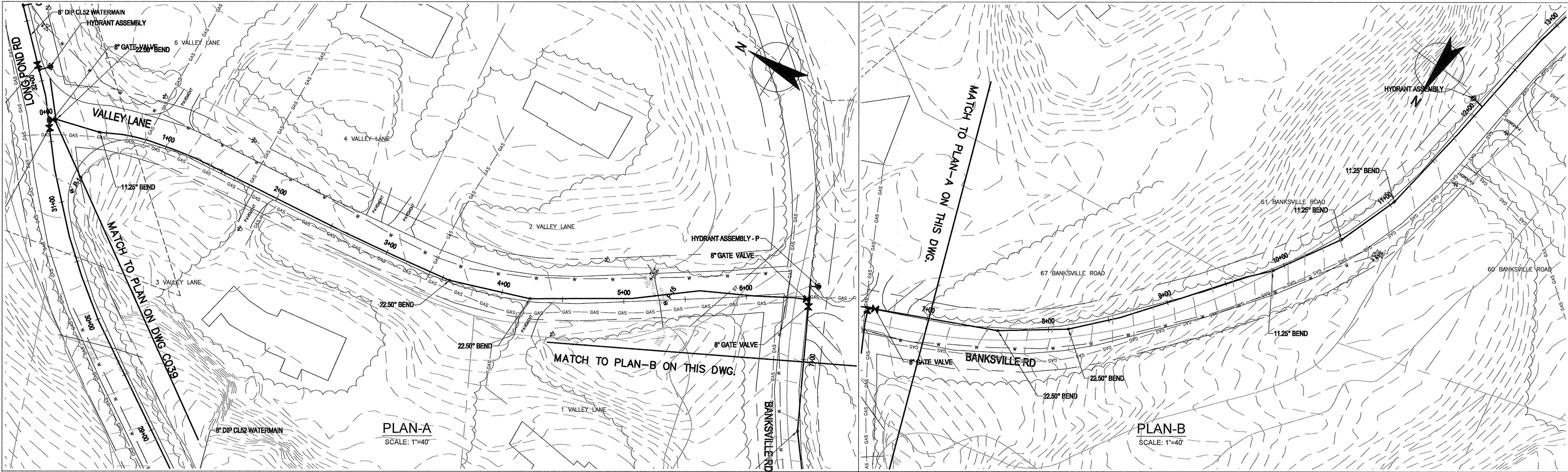


PROFILE
SCALE: HORZ.: 1"=40', VERT. 1"=10'

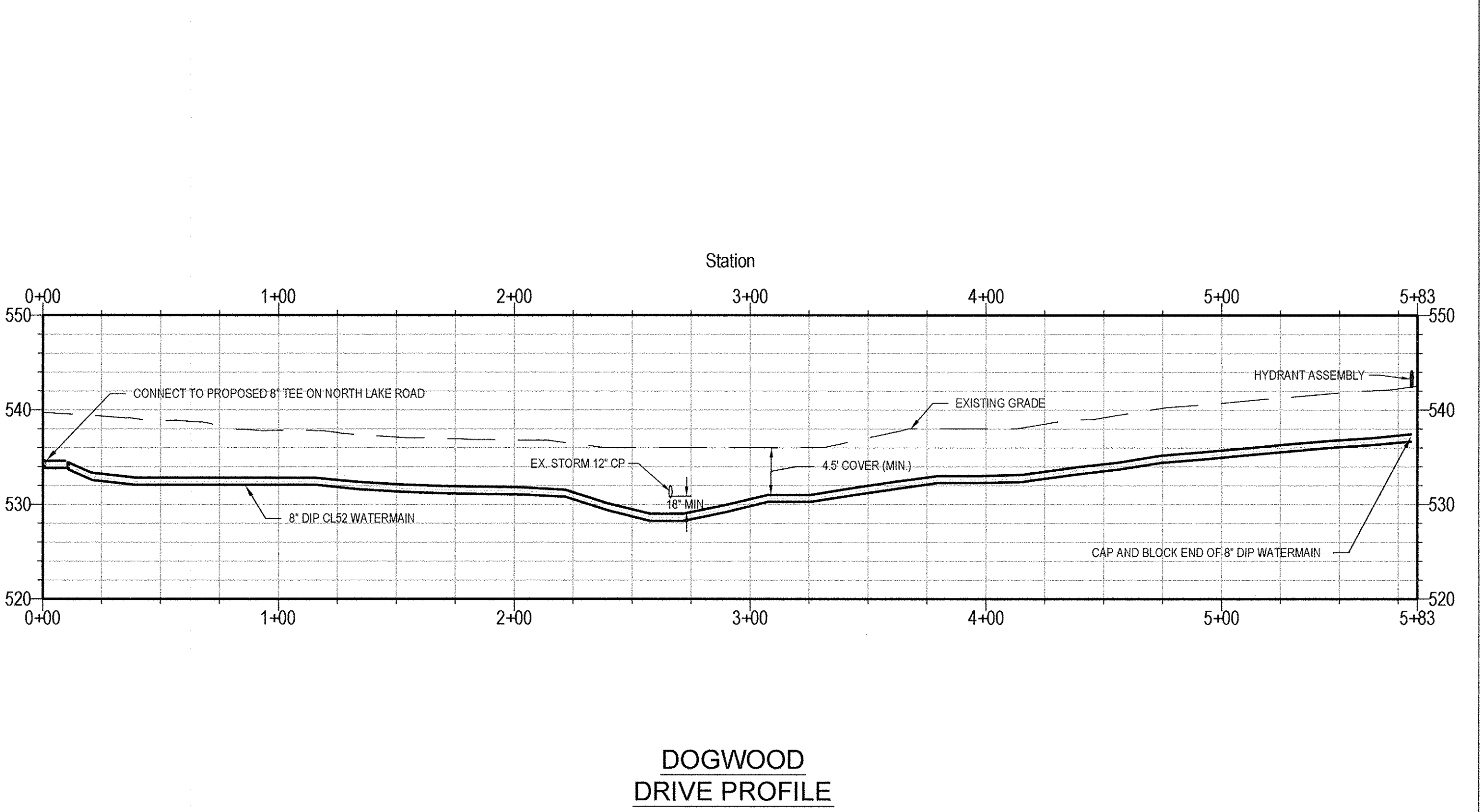
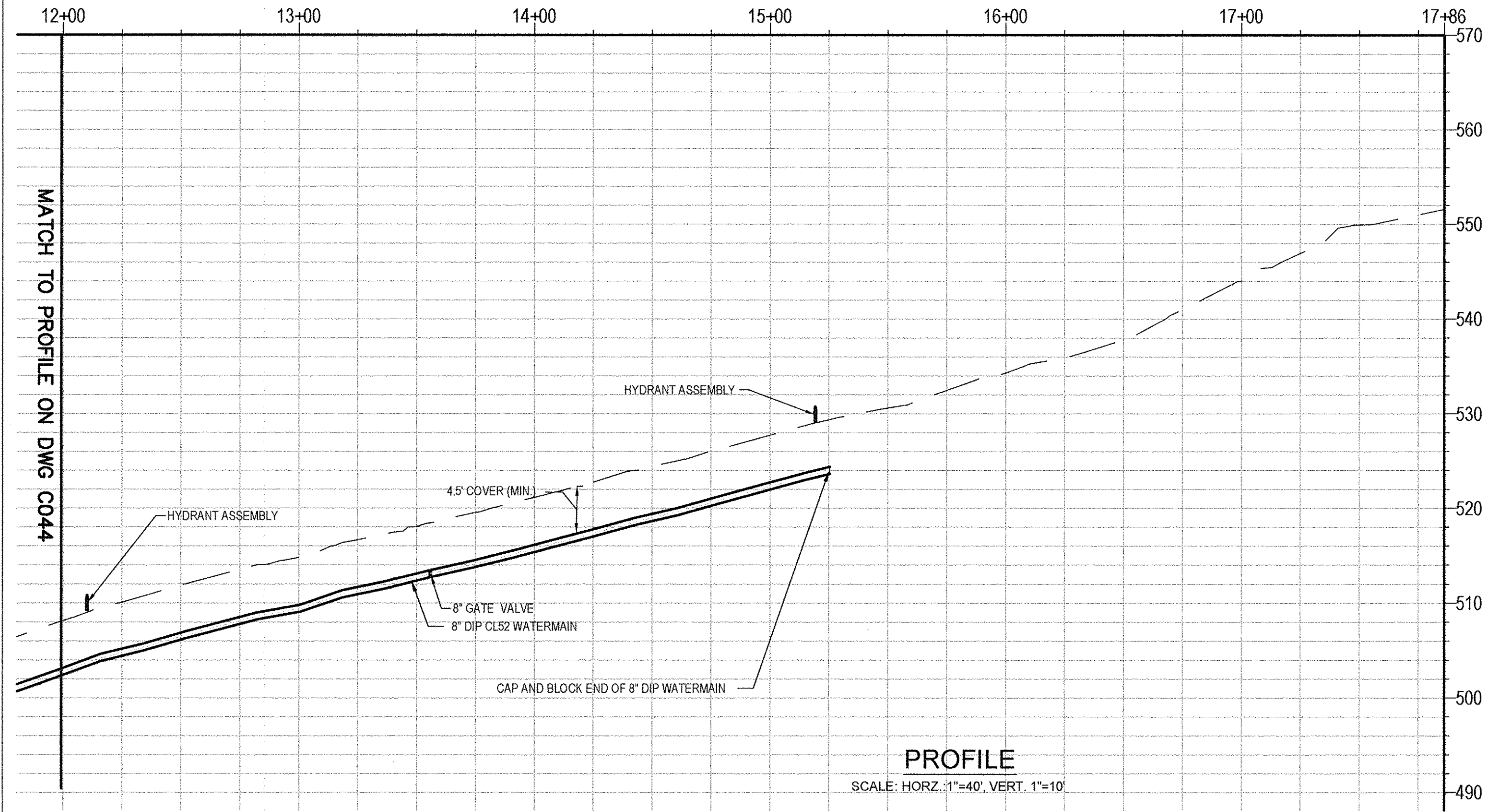
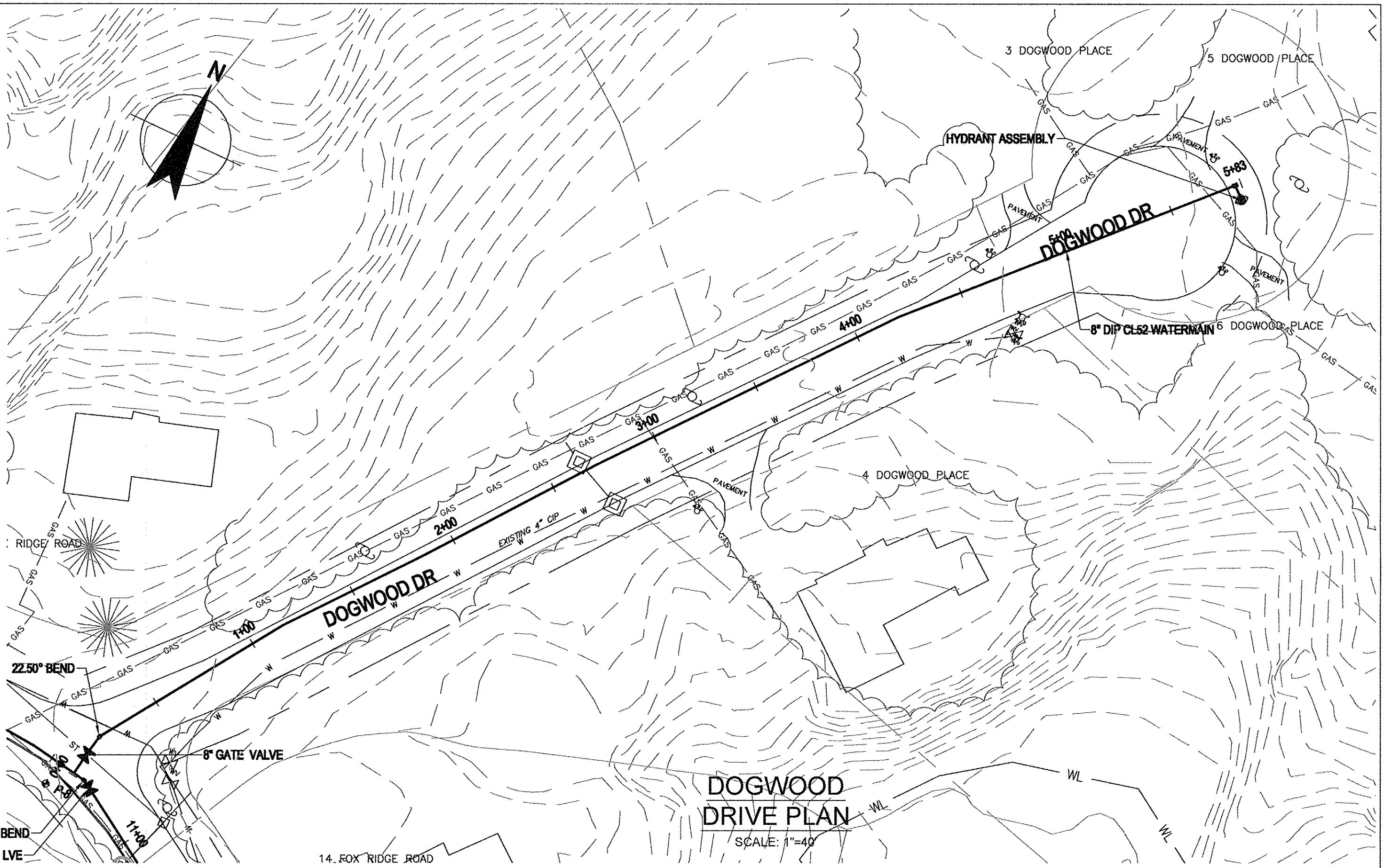
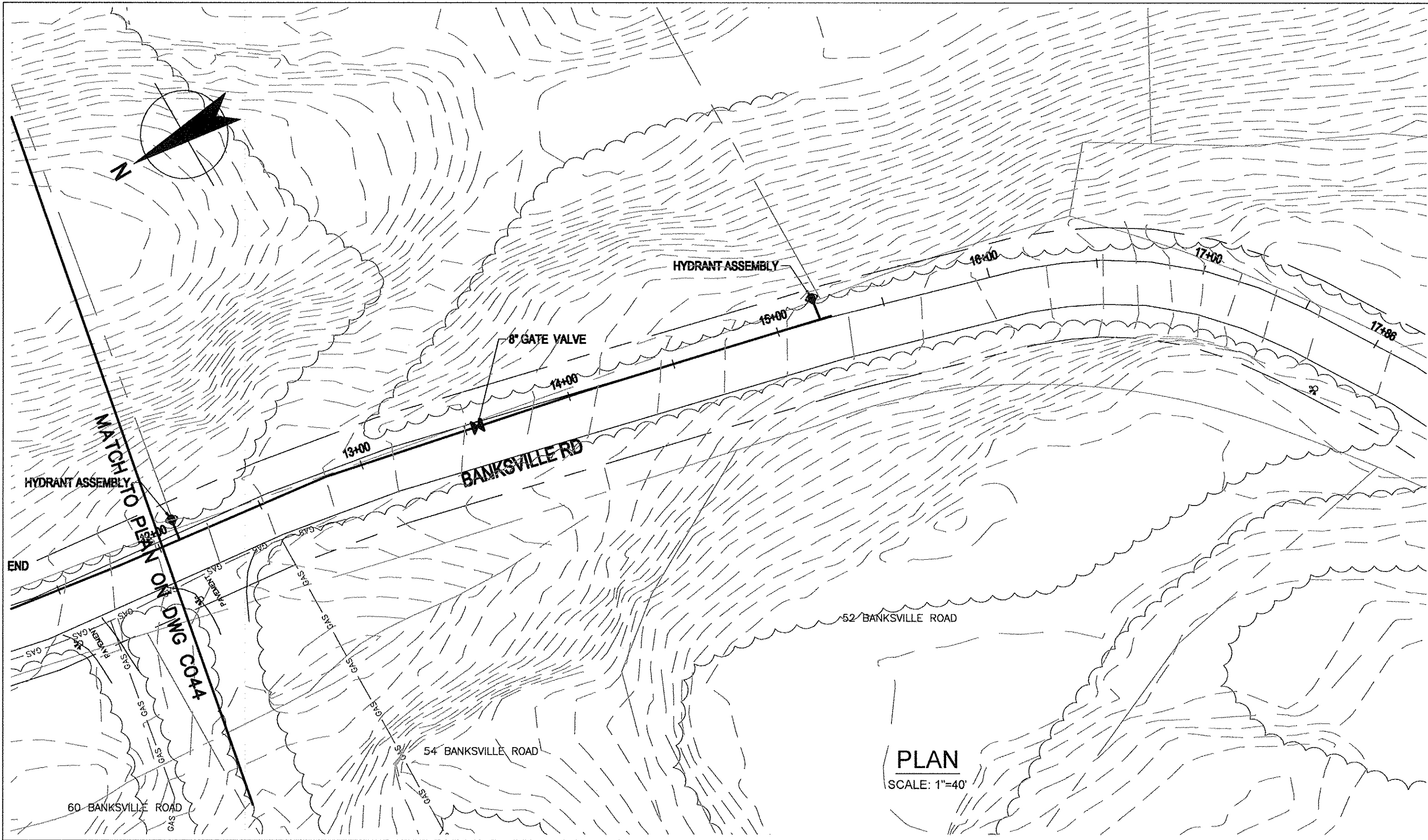


PROFILE
SCALE: HORZ.: 1"=40', VERT. 1"=10'

0	FOR CONSTRUCTION					JBA	JSS	KC	05/14
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing				Drawn	Job Manager	Project Director	Date
Plot Date: 9 May 2014 - 1:27 PM		Plotted by: Joseph Awald				Cad File No:		G:\861\6265\CADD\Draw	



				NOTES:							
				UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.							
				IT IS VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM ON THIS DRAWING IN ANYWAY. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE AND DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.							
0 FOR CONSTRUCTION				JBA	JSS	KC	05/14				
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing		Drawn	Job Manager	Project Director	Date				



0	FOR CONSTRUCTION		JBA	JSS	KC	05/14
No	Revision	Note: * Indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
Plot Date: 9 May 2014 - 1:40 PM			Plotted by: Joseph Awald		Cad File No: G:\8616265\CADD\Draw	

NOTES:

UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

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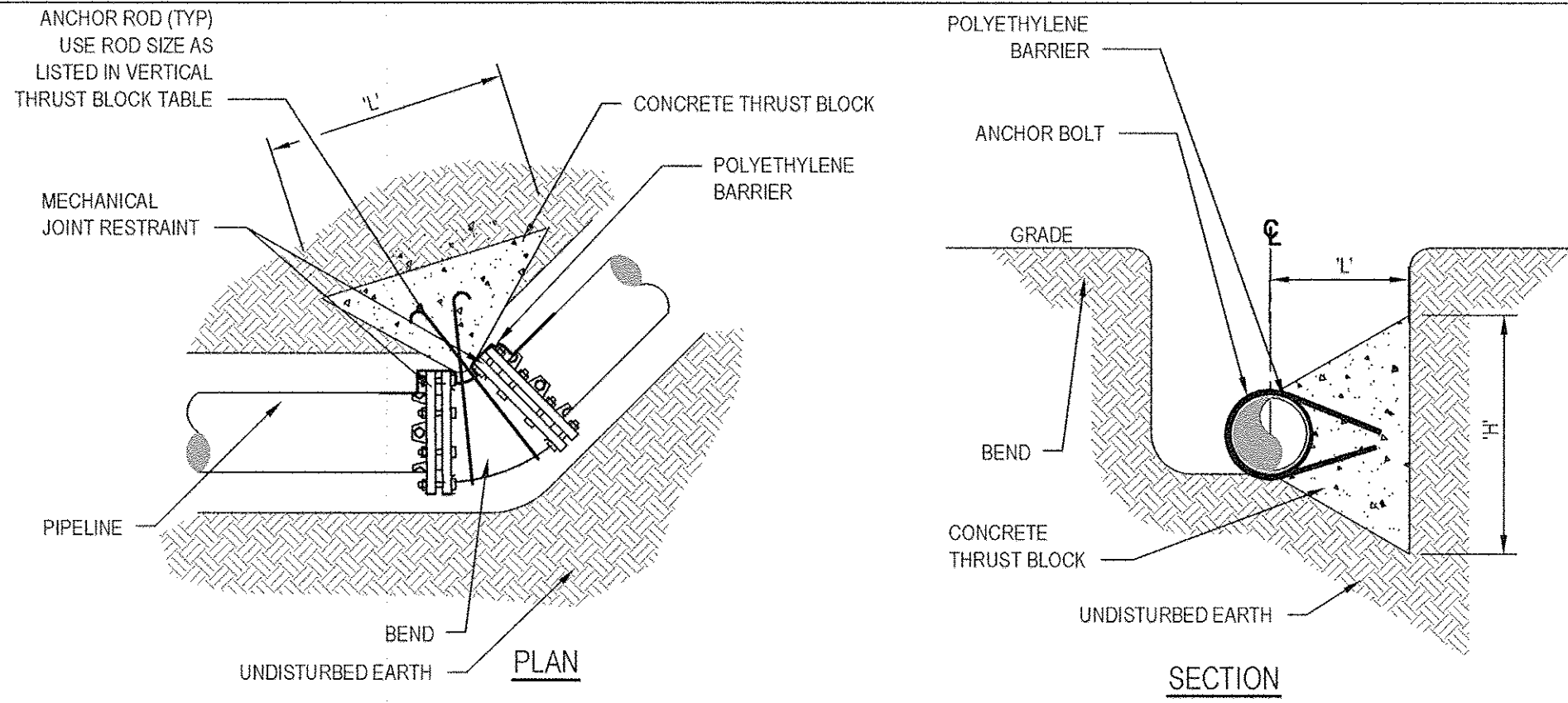


Drawn JBA	Designer JBA
Drafting Check JBA	Design Check JSS
Approved (Project Director) <i>Kevin Castro</i>	
Date	
Scale AS SHOWN	This Drawing shall not be used for Construction unless Signed and Sealed For Construction

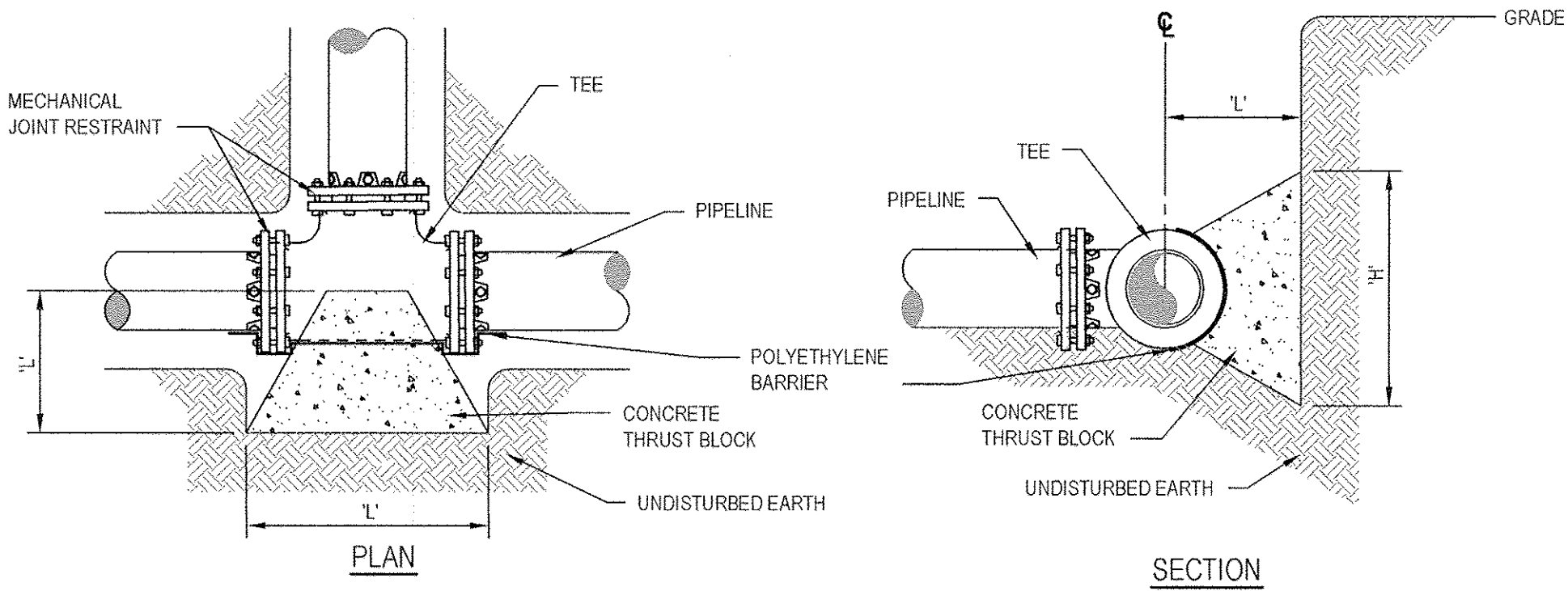
Client	TOWN OF NORTH CASTLE, NEW YORK
Project	WD NO. 2 - DISTRIBUTION SYSTEM REPLACEMENT
Title	BANKSVILLE RD PLAN & PROFILE STA. 12+00 - 17+86 DOGWOOD DRIVE PLAN & PROFILE STA. 0+00 - 5+83
Contract No.	1
Original Size	Ansi D
Drawing No:	86-16265-C045
Rev:	0

8616265-C045-C50.dwg

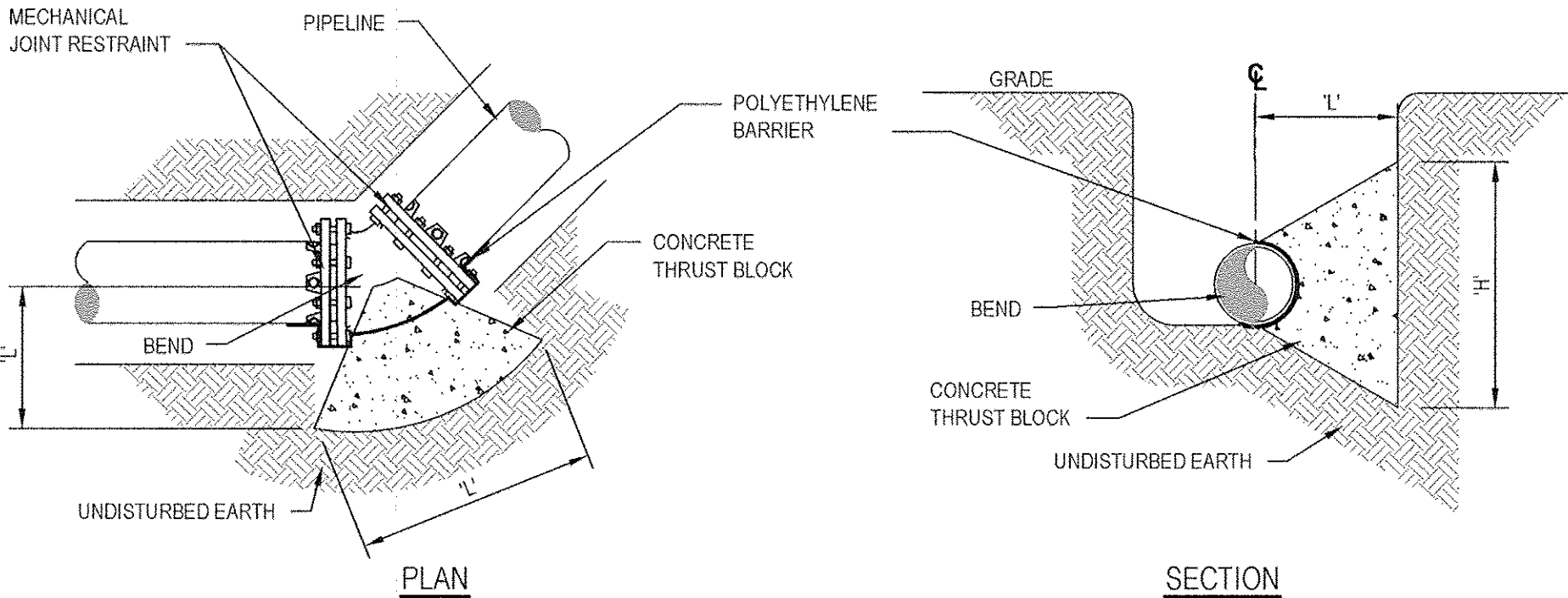
3/19/2007



HORIZONTAL THRUST BLOCK FOR BENDS IN PARALLEL PIPE TRENCH SECTION



HORIZONTAL THRUST BLOCK FOR TEES

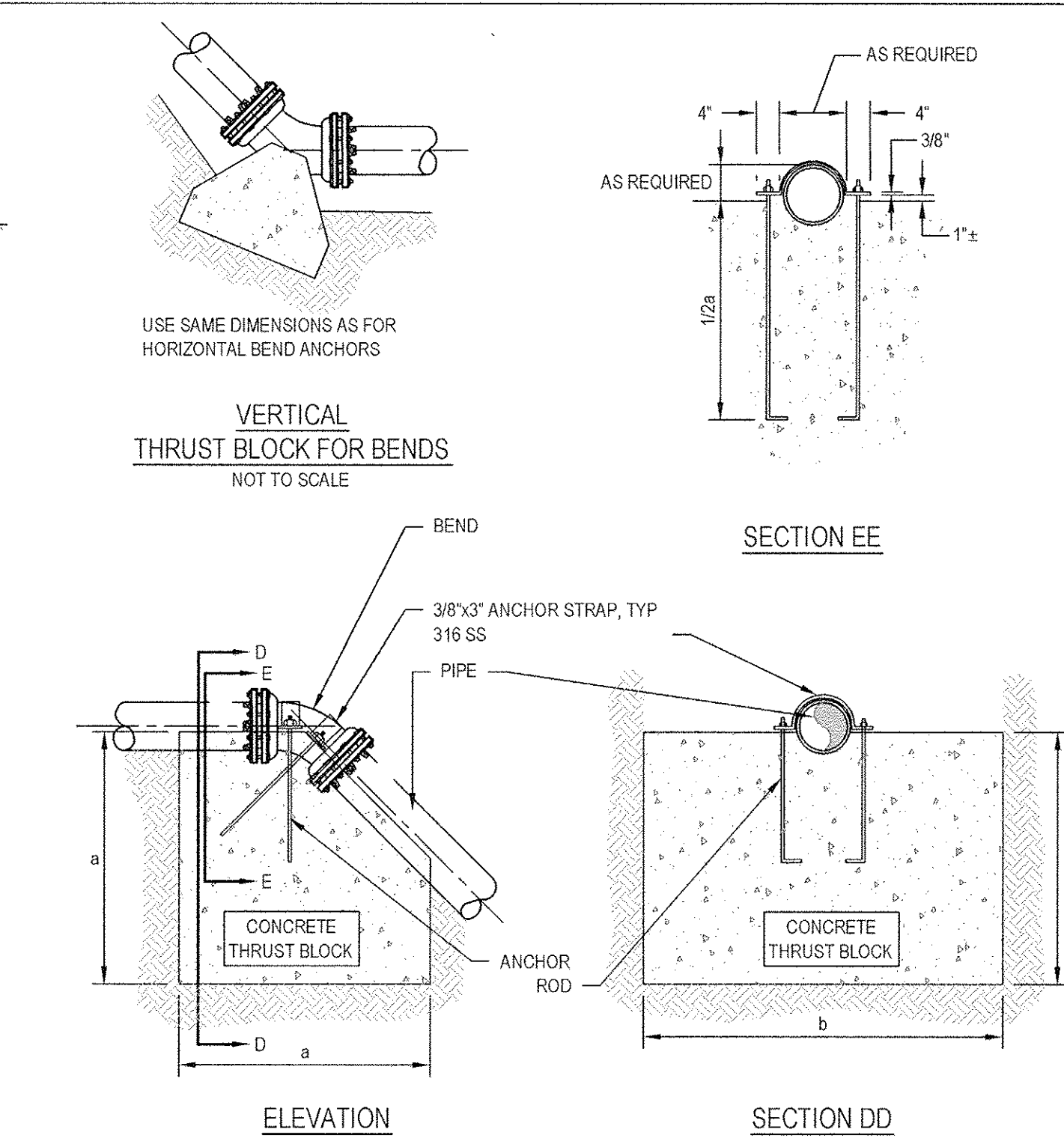


HORIZONTAL THRUST BLOCK FOR BENDS

HORIZONTAL ANCHOR DIMENSIONS FOR AVERAGE SOIL CONDITIONS											
UP TO 150 P.S.I. WORKING PRESSURE											
PIPE SIZE	PLUG, CAP, TEE OR TAP SLEEVE		90° BEND		45° BEND		22 1/2° BEND		11 1/4° BEND		L
	H	L	H	L	H	L	H	L	H	L	
6"	1'-0"	2'-0"	1'-0"	2'-0"	1'-0"	1'-4"	0'-9"	1'-0"	0'-6"	1'-0"	
8"	1'-4"	2'-8"	1'-4"	2'-8"	1'-4"	1'-6"	1'-0"	1'-0"	0'-9"	1'-0"	
12"	2'-0"	4'-0"	2'-0"	4'-0"	2'-2"	1'-6"	1'-6"	1'-6"	1'-3"	1'-3"	
14"	2'-4"	4'-8"	2'-4"	4'-8"	2'-4"	1'-9"	1'-9"	1'-9"	1'-4"	1'-4"	
16"	2'-8"	5'-4"	2'-8"	5'-4"	2'-8"	3'-0"	2'-0"	2'-0"	1'-6"	1'-6"	

- NOTES:
- SIZES BASED ON 150 PSI PRESSURE IN PIPELINE AND 2,000 PSF SOIL BEARING STRENGTH.
 - ALL EXPOSED PORTIONS OF ANCHOR STRAPS TO RECEIVE A MINIMUM OF 2 FIELD COATS OF BITUMASTIC MATERIAL.
 - PRIOR TO PLACING CONCRETE WRAP ANCHORS & ALL FITTINGS IN 8-MIL THICK POLYTHENE.
 - ALL ANCHOR RODS SHALL BE TYPE 304 STAINLESS STEEL.

THRUST BLOCK - HORIZONTAL (TYP.)



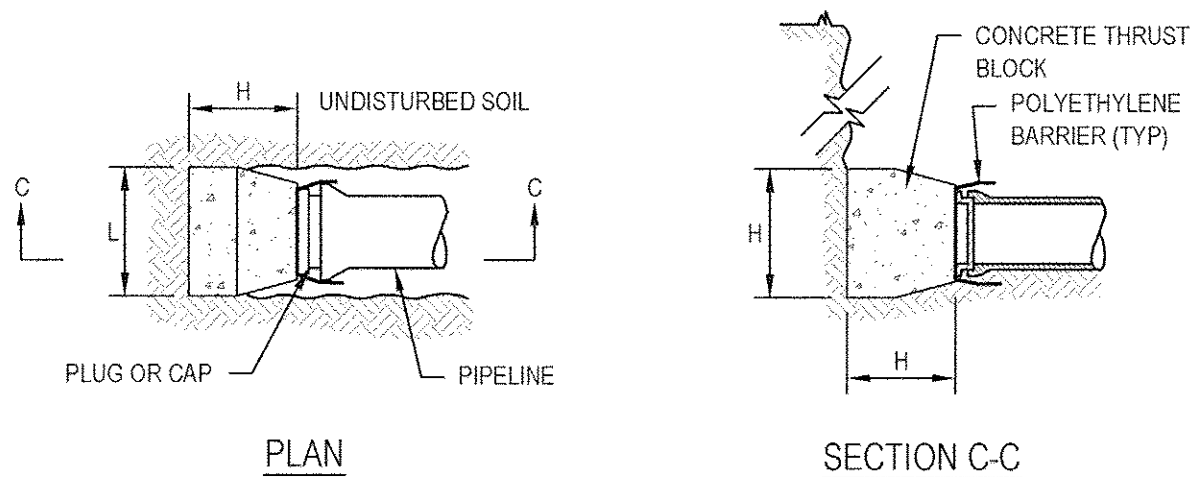
ELEVATION

SECTION DD

VERTICAL ANCHOR DIMENSIONS															
UP TO 150 P.S.I. WORKING PRESSURE															
PIPE SIZE	45° BEND					22 1/2° BEND					11 1/4° BEND				
	DIMENSION			ROD Ø	DIMENSION			ROD Ø	DIMENSION			ROD Ø			
	a	b	c		a	b	c		a	b	c				
6"	3'-0"	3'-0"	2'-0"	3/4"	2'-6"	2'-3"	1'-6"	3/4"	2'-6"	2'-0"	1'-6"	3/4"			
8"	3'-6"	3'-6"	2'-6"	3/4"	3'-0"	3'-0"	1'-9"	3/4"	2'-6"	2'-6"	1'-3"	3/4"			
12"	4'-9"	4'-6"	3'-3"	3/4"	4'-0"	3'-9"	2'-6"	3/4"	3'-3"	3'-3"	1'-9"	3/4"			
14"	5'-3"	5'-0"	3'-9"	3/4"	4'-3"	4'-3"	2'-6"	3/4"	3'-6"	3'-6"	2'-0"	3/4"			
16"	5'-9"	5'-6"	4'-0"	3/4"	4'-9"	4'-6"	2'-9"	3/4"	3'-9"	3'-9"	2'-0"	3/4"			

- NOTES:
- SIZES BASED ON 150 PSI PRESSURE IN PIPELINE AND 2,000 PSF SOIL BEARING STRENGTH.
 - ALL EXPOSED PORTIONS OF ANCHOR STRAPS TO RECEIVE A MINIMUM OF 2 FIELD COATS OF BITUMASTIC MATERIAL.
 - PRIOR TO PLACING CONCRETE WRAP ANCHORS & ALL FITTINGS IN 8-MIL THICK POLYTHENE.
 - ALL ANCHOR RODS SHALL BE TYPE 304 STAINLESS STEEL.

THRUST BLOCK - VERTICAL (TYP.)



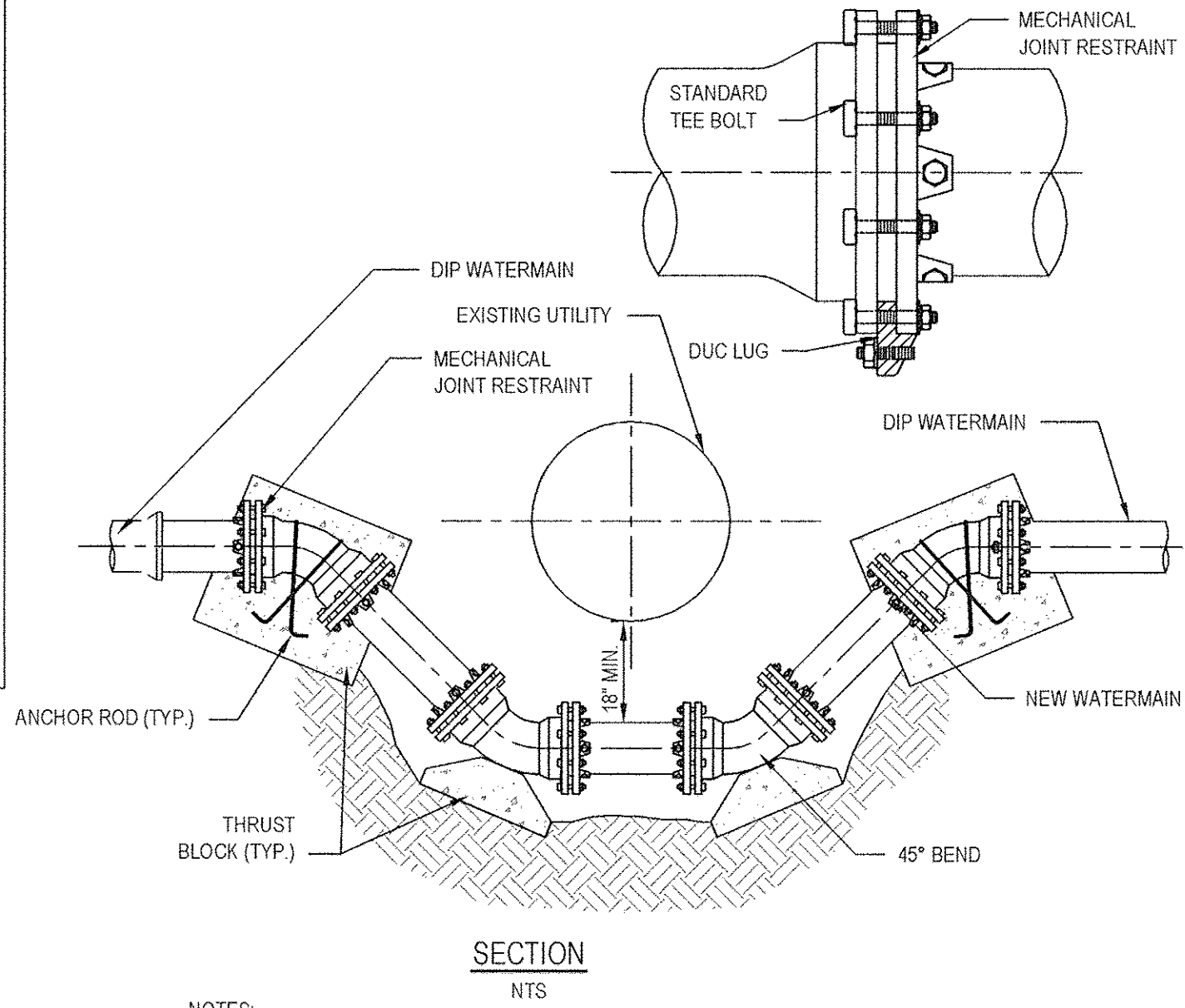
- NOTES:
- INSTALL POLYETHYLENE BARRIER PRIOR TO PLACING CONCRETE.
 - FOR DIMENSION SIZING, USE CHART FOR HORIZONTAL THRUST BLOCKS.

THRUST BLOCK - PLUG OR END CAP (TYP.)

SERVICE INSTALLATION DATA			
PROPERTY ADDRESS:	XXXX LONG POND ROAD		
STREET TAPPED ON (IF DIFFERENT):			
DATE OF INSTALLATION:	XXXXXX XX, 2014		
SIZE OF TAP:	1"	MAIN TO LINE:	16"
SIZE OF OC:	1"	LENGTH OF SERVICE:	7'
CONTRACTOR/PLUMBER:	WATERMAINS-R-US		
TAP INSTALLED BY:			INSPECTOR: M. SMITH
CURB STOP LOCATION:	* 321.0' N OF N LINE OF LONG POND RD.		
	37.5' N OF 2nd HYD N OF LONG POND RD.		
CORPORATION STOP LOCATION (IF DIFFERENT):	*		
* MEASURED FROM STREET LINE / NEAREST HYDRANT			
TOWN OF NORTH CASTLE			

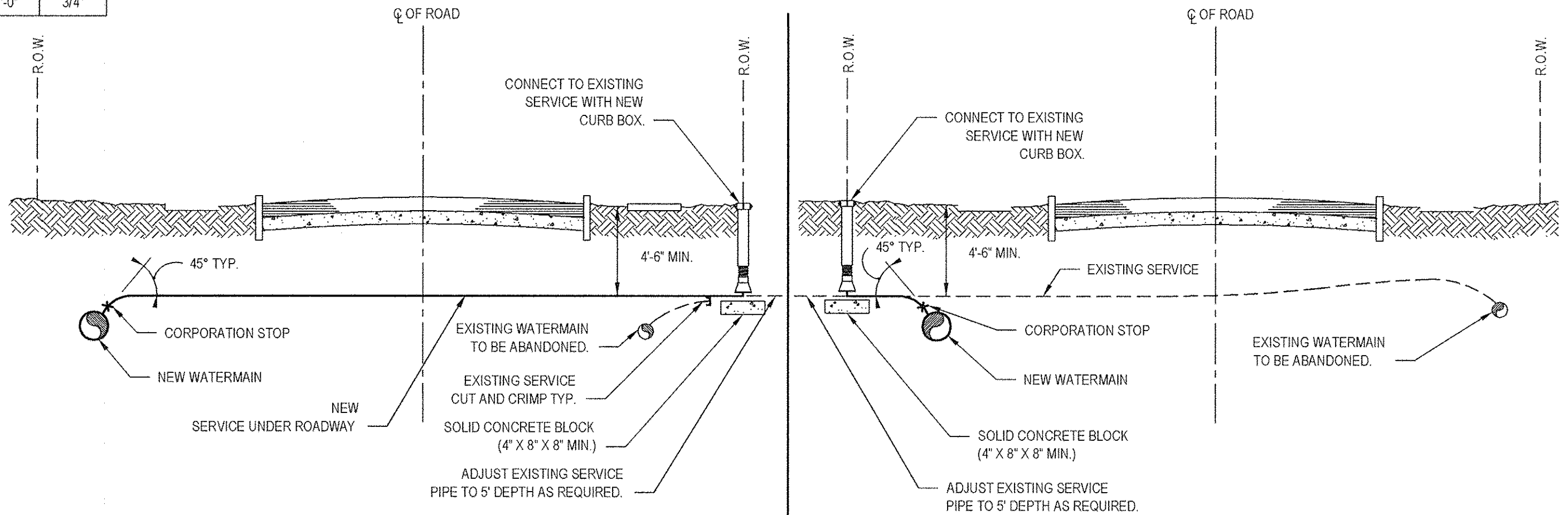
- NOTES:
- NEW OR REVISED WATER SERVICE CARDS ARE TO BE TYPED OR NEATLY PRINTED WITH THE REQUIRED INFORMATION, AS SHOWN.
 - AT CORNER LOTS, A WATER SERVICE CARD IS TO BE MADE FOR EACH STREET WHEN THE WATER SERVICE IS LOCATED ON THE STREET OTHER THAN THE GIVEN PROPERTY ADDRESS.
 - WATER SERVICES THAT ARE ABANDONED AT TAP ARE TO BE MARKED "ABANDONED AT TAP" ACROSS THE FACE OF THE WATER SERVICE CARD, WITH THE CONTRACTOR'S NAME AND DATE BEING NOTED.
 - MEASUREMENT FOR LOCATION OF THE CURB STOP IS TO BE TAKEN FROM THE EXTENSION OF THE NEAREST INTERSECTING STREET RIGHT-OF-WAY, AS MEASURED PARALLEL TO THE STREET ON WHICH THE WATER SERVICE IS LOCATED.
 - WHERE LOCATION OF THE CURB STOP IS GREATER THAN 200 FEET FROM THE NEAREST INTERSECTING STREET RIGHT-OF-WAY, AN ADDITIONAL MEASUREMENT IS REQUIRED TO BE TAKEN FROM THE NEAREST HYDRANT.

EXAMPLE WATER SERVICE CARD



- NOTES:
- RESTRAINED MECHANICAL JOINTS AS SHOWN.
 - VALVES, TEES AND HYDRANTS MAY BE RESTRAINED SIMILARLY.
 - ONE FULL PIPE LENGTH SHALL BE CENTERED UNDER THE EXISTING UTILITY CROSSING.
 - WATERLINE JOINTS SHALL BE PLACED EQUIDISTANT FROM THE EXISTING UTILITY AT THE CROSSING.
 - IF EXISTING PIPE IS CIP OR PVC, CONNECT TO NEW FITTING ONLY WHEN ALLOWED BY ENGINEER.

WATERMAIN RELOCATION DETAIL (TYP.)



- NOTES:
- EXISTING SERVICES SHALL BE CRIMPED AND ABANDONED IN PLACE.
 - SERVICE SADDLES SHALL BE USED UNDER THE FOLLOWING CONDITIONS:
 - WHEN SERVICES ARE PLACED ON 4" OR SMALLER PIPES.
 - WHEN SERVICES LARGER THAN 1" ARE PLACED ON A 6" PIPE.
 - WHEN SERVICES LARGER THAN 1 1/2" ARE PLACED ON AN 8" PIPE.
 - WHEN SERVICES LARGER THAN 1 1/2" ARE PLACED ON DUCTILE IRON PIPE.
 - CURB BOXES SHALL NOT BE PLACED IN SIDEWALKS.

FAR SIDE SERVICE REPLACEMENT /INSTALLATION

- NOTES:
- EXISTING SERVICES SHALL BE CRIMPED AND ABANDONED IN PLACE.
 - SERVICE SADDLES SHALL BE USED UNDER THE FOLLOWING CONDITIONS:
 - WHEN SERVICES ARE PLACED ON 4" OR SMALLER PIPES.
 - WHEN SERVICES LARGER THAN 1" ARE PLACED ON A 6" PIPE.
 - WHEN SERVICES LARGER THAN 1 1/2" ARE PLACED ON AN 8" PIPE.
 - WHEN SERVICES LARGER THAN 1 1/2" ARE PLACED ON DUCTILE IRON PIPE.
 - CURB BOXES SHALL NOT BE PLACED IN SIDEWALKS.

NEAR SIDE SERVICE REPLACEMENT /INSTALLATION

0 FOR CONSTRUCTION					JBA	JSS	KC	05/14
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing			Drawn	Job Manager	Project Director	Date

NOTES:

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GHD Consulting Services Inc.
One Remington Park Drive
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E cazmail@ghd.com W www.ghd.com

Drawn JBA	Designer JBA
Drafting Check JBA	Design Check JSS
Approved (Project Director) <i>Kevin Ch...</i>	
Date	
Scale AS SHOWN	This drawing shall not be used for Construction unless Signed and Sealed For Construction

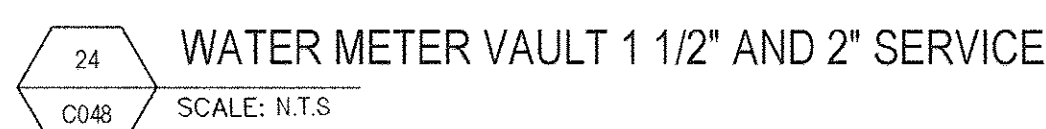
Client Project Title	TOWN OF NORTH CASTLE, NEW YORK WD NO. 2 - DISTRIBUTION SYSTEM REPLACEMENT DETAILS
Contract No. 1	
Original Size	Ansi D
Drawing No:	86-16265-C047
Rev:	A



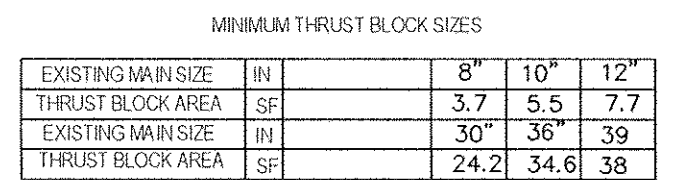
- 18 WATER SAMPLING STATION
C048 SCALE: N.T.S.



- 22 WATER DISINFECTION/SAMPLING TAP
C048 SCALE: N.T.S



- 27
C048
- RESIDENTIAL ASPHALT DRIVEWAY RESTORATION DETAIL
- SCALE: N.T.S.



- NOTES:

- 21 TAPPING SLEEVE (LIVE TAP) WITH THRUST BLOCK
C048 SCALE: NONE

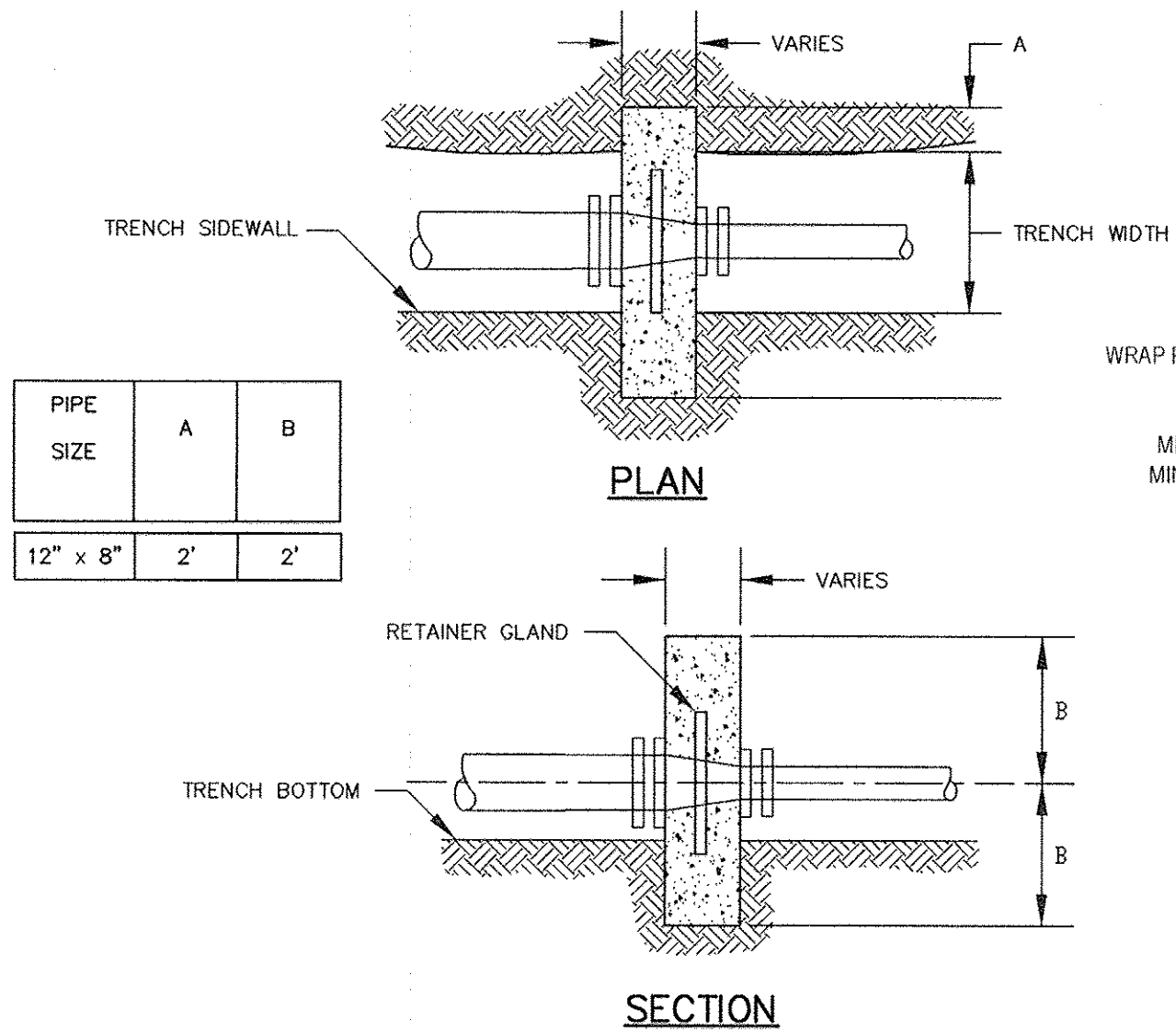


- 28 TEMPORARY PAVEMENT DETAIL
C048 SCALE: N.T.S.

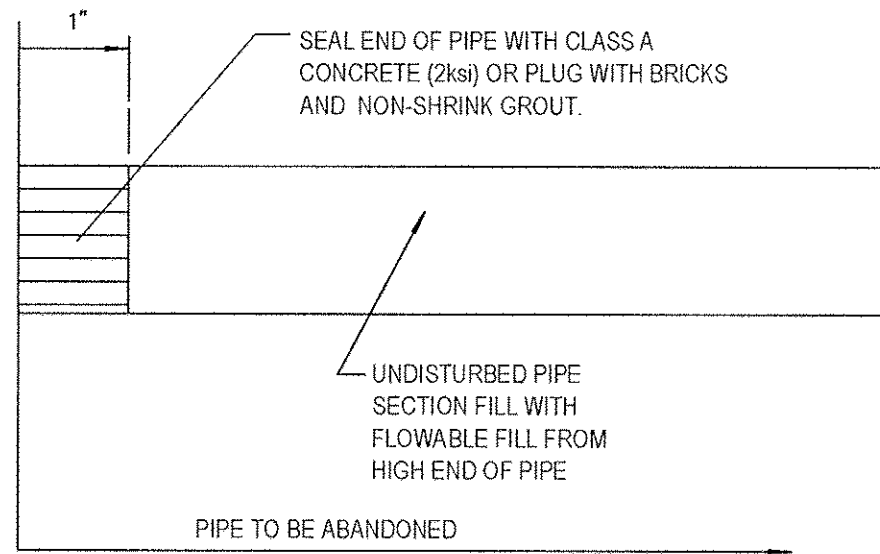
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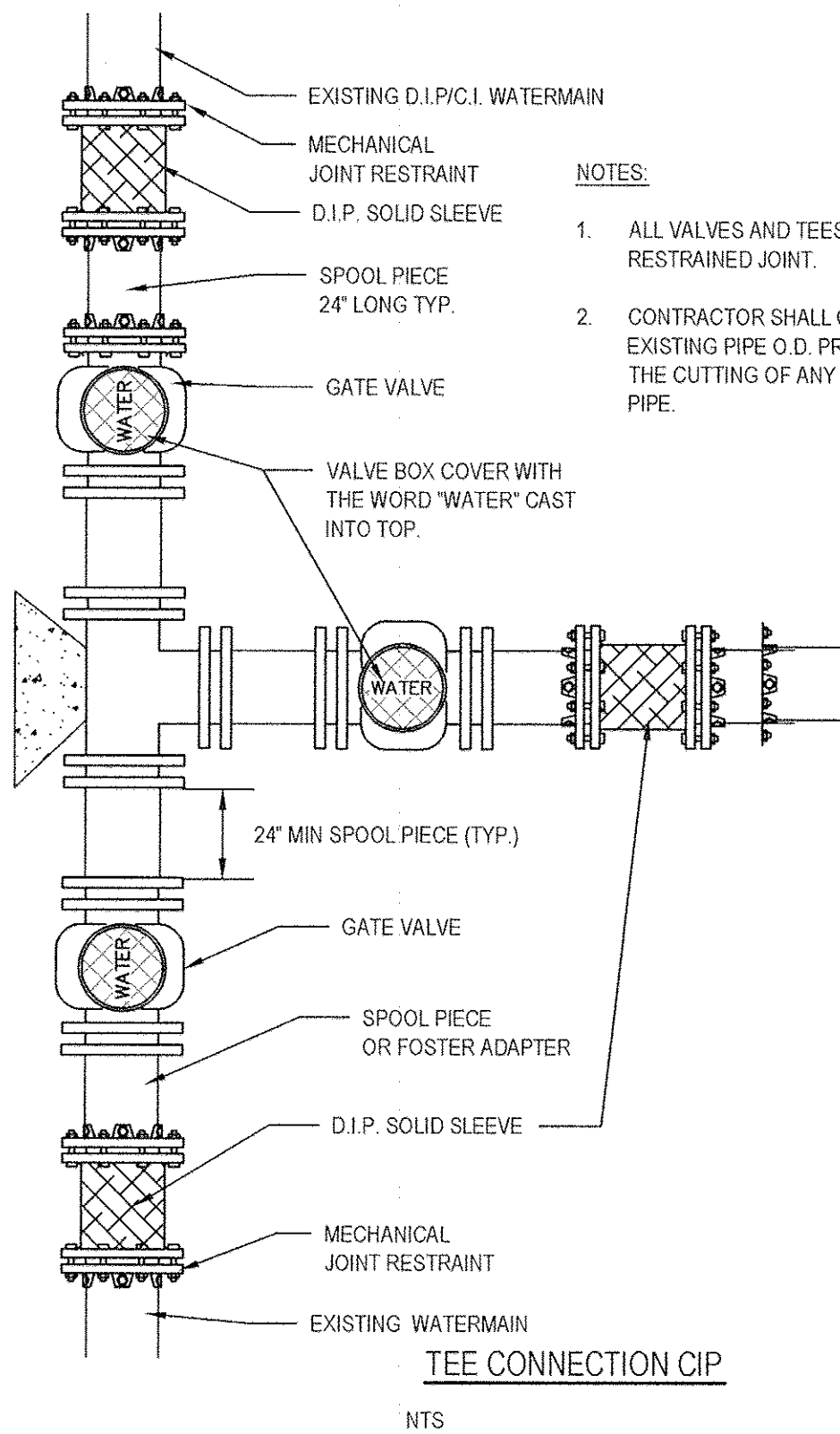
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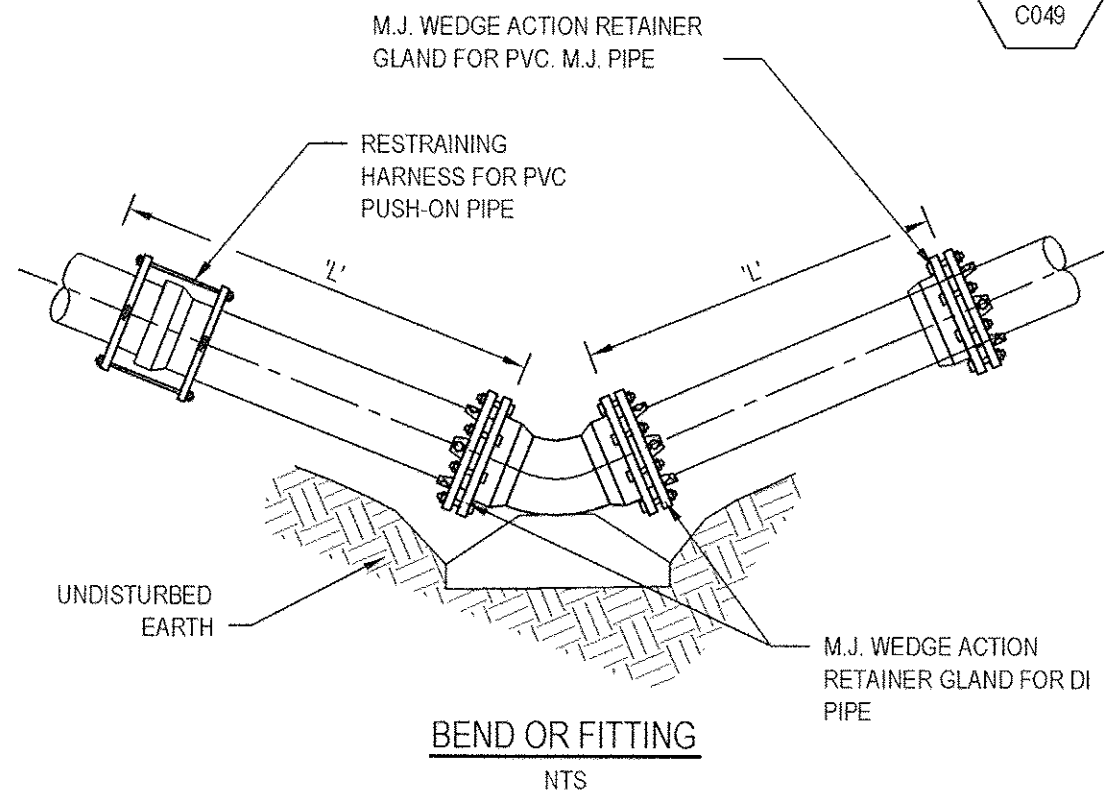
29
C049
ANCHOR COLLAR DETAIL
SCALE: NONE



33
C049
PIPE ABANDONMENT DETAIL
SCALE: NONE



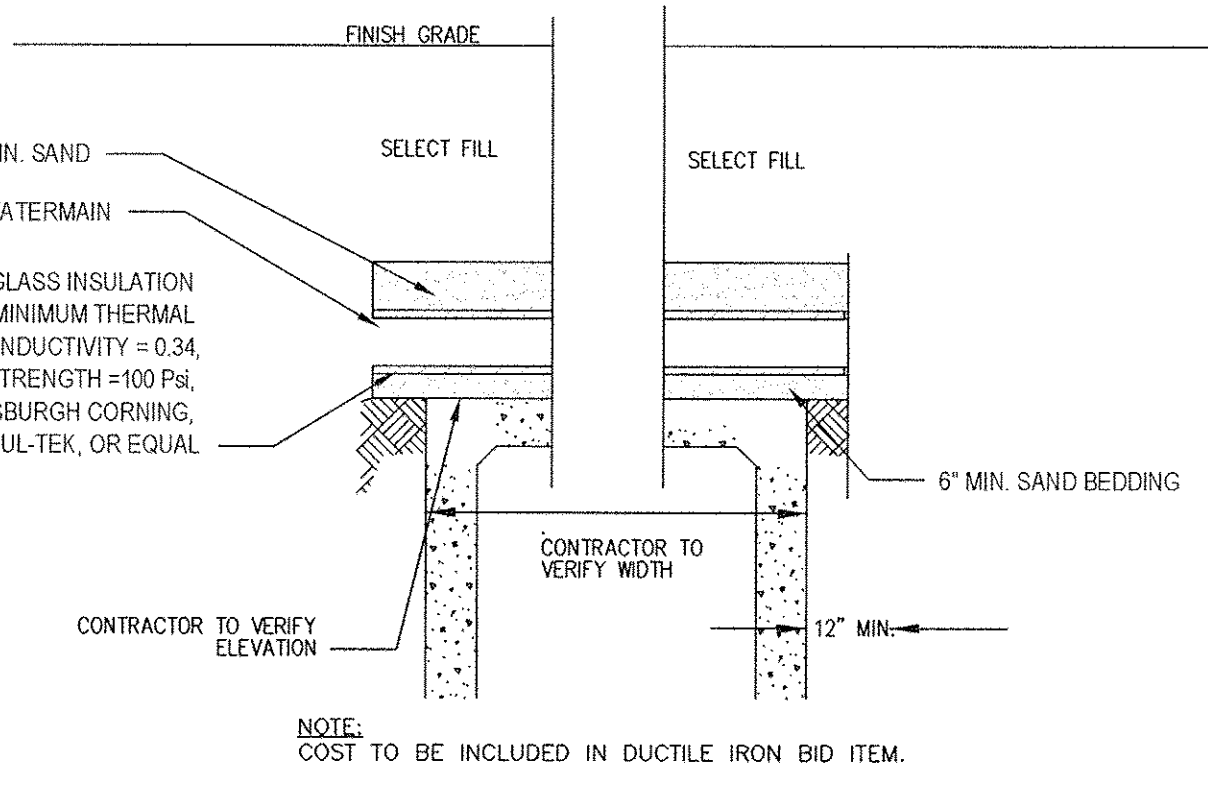
36
C049
TEE CONNECTION TO EXISTING WATER MAIN (TYP.)
SCALE: NONE



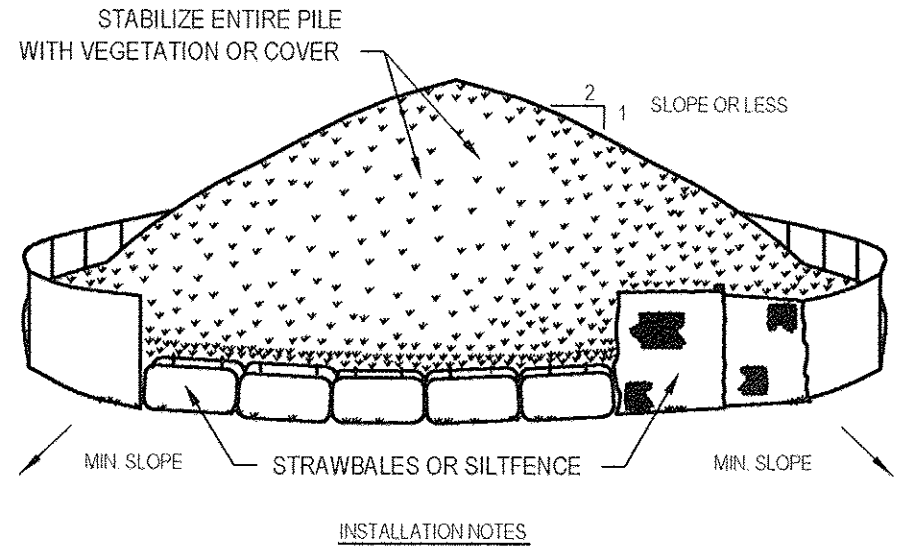
NOTE:
DIMENSION 'L' REPRESENTS THE LENGTH OF RESTRAINED PIPE REQUIRED IN FEET EACH SIDE OF THE PIPE FITTING.

RESTRAINED JOINT SCHEDULE					
PIPE SIZE	PIPE TYPE	11.25" ELBOW	22.5" ELBOW	45" ELBOW	TEE BRANCH, 90° BEND, VALVE OR DEAD END
		'L'	'L'	'L'	
8	DIP	20	20	40	40
12	DIP	20	20	40	40

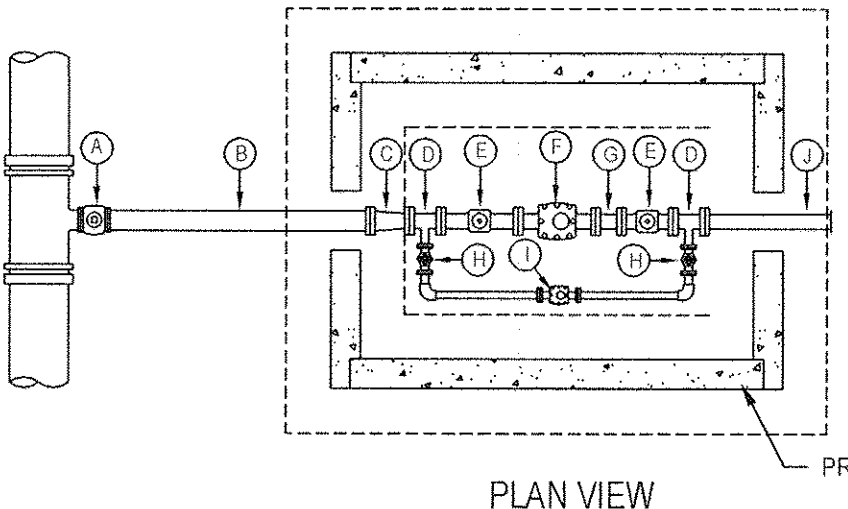
37
C049
STANDARD DETAIL RESTRAINED JOINT SCHEDULE
SCALE: NONE



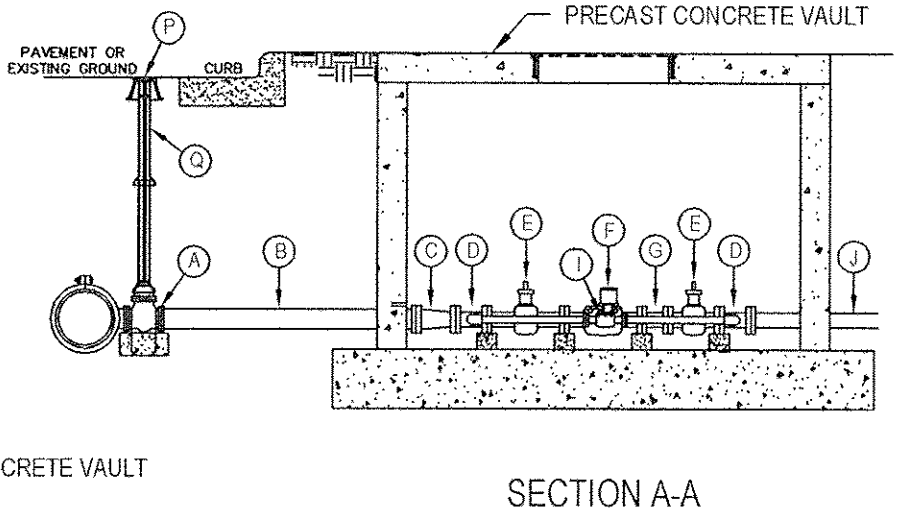
30
C049
BOX CULVERT CROSSING (TYP.)
SCALE: NONE



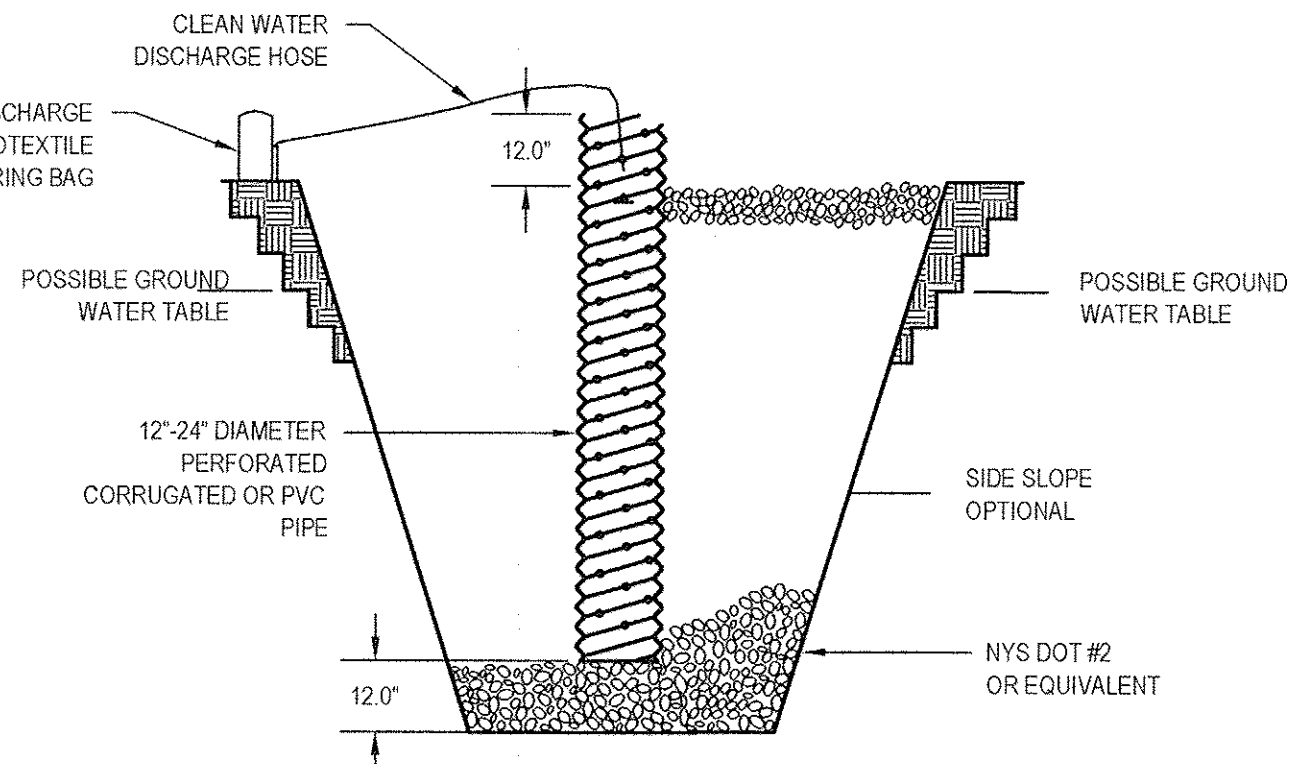
34
C049
STOCKPILE PROTECTION
SCALE: NONE



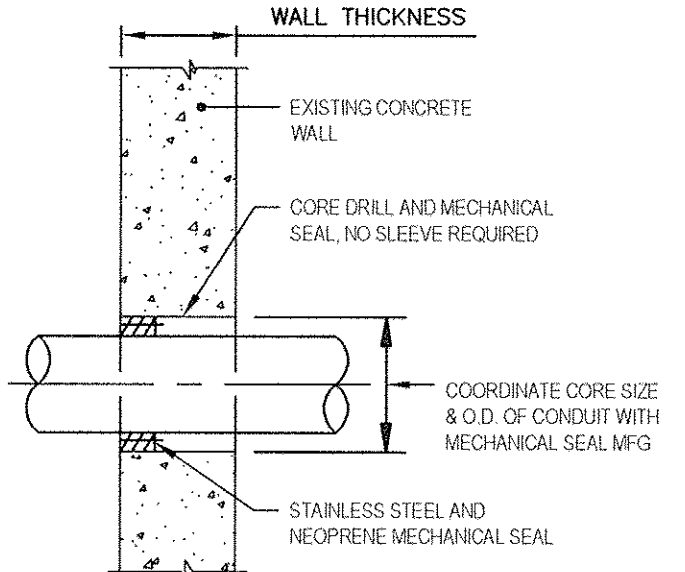
31
C049
SERVICE METER VAULT - 4\"/>



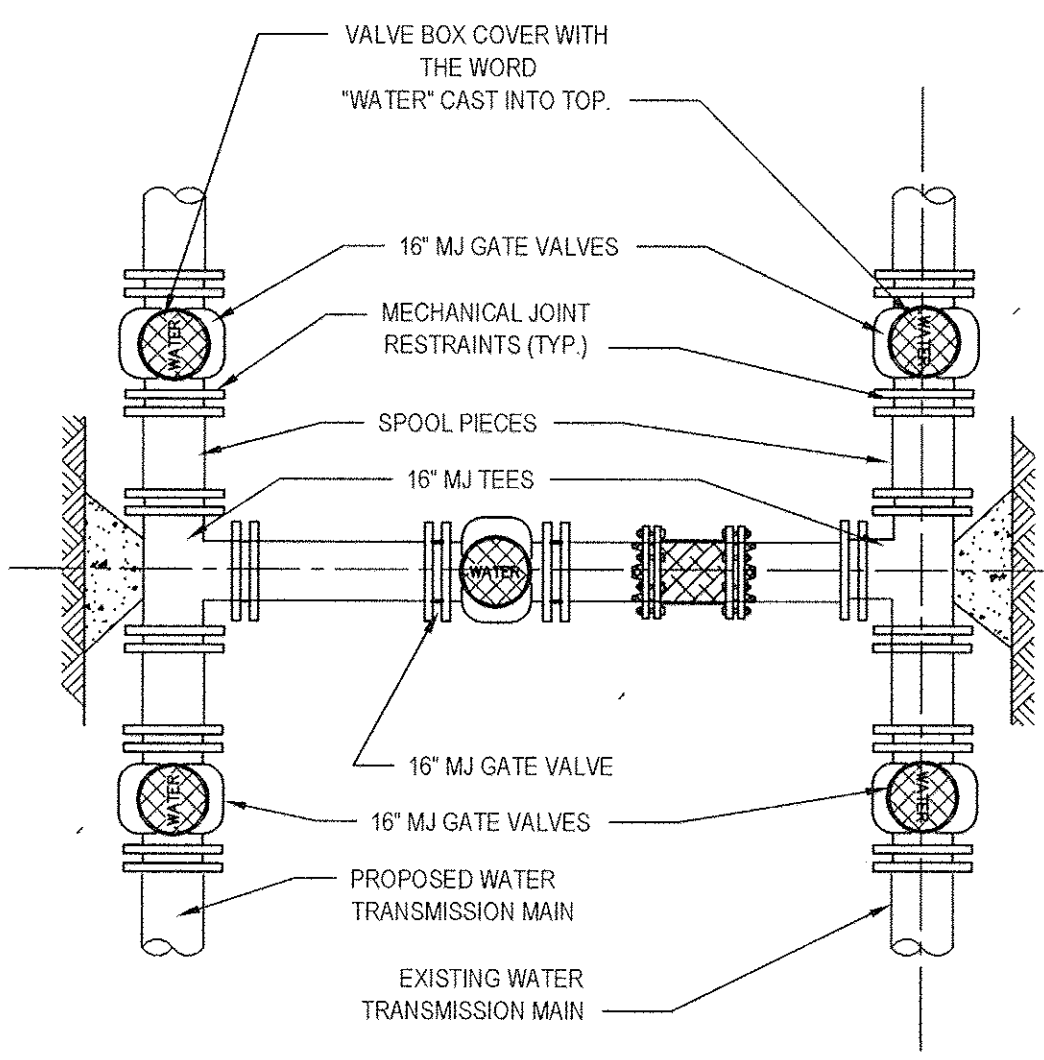
35
C049
CATCHBASIN/MANHOLE INLET PROTECTION
SCALE: NONE



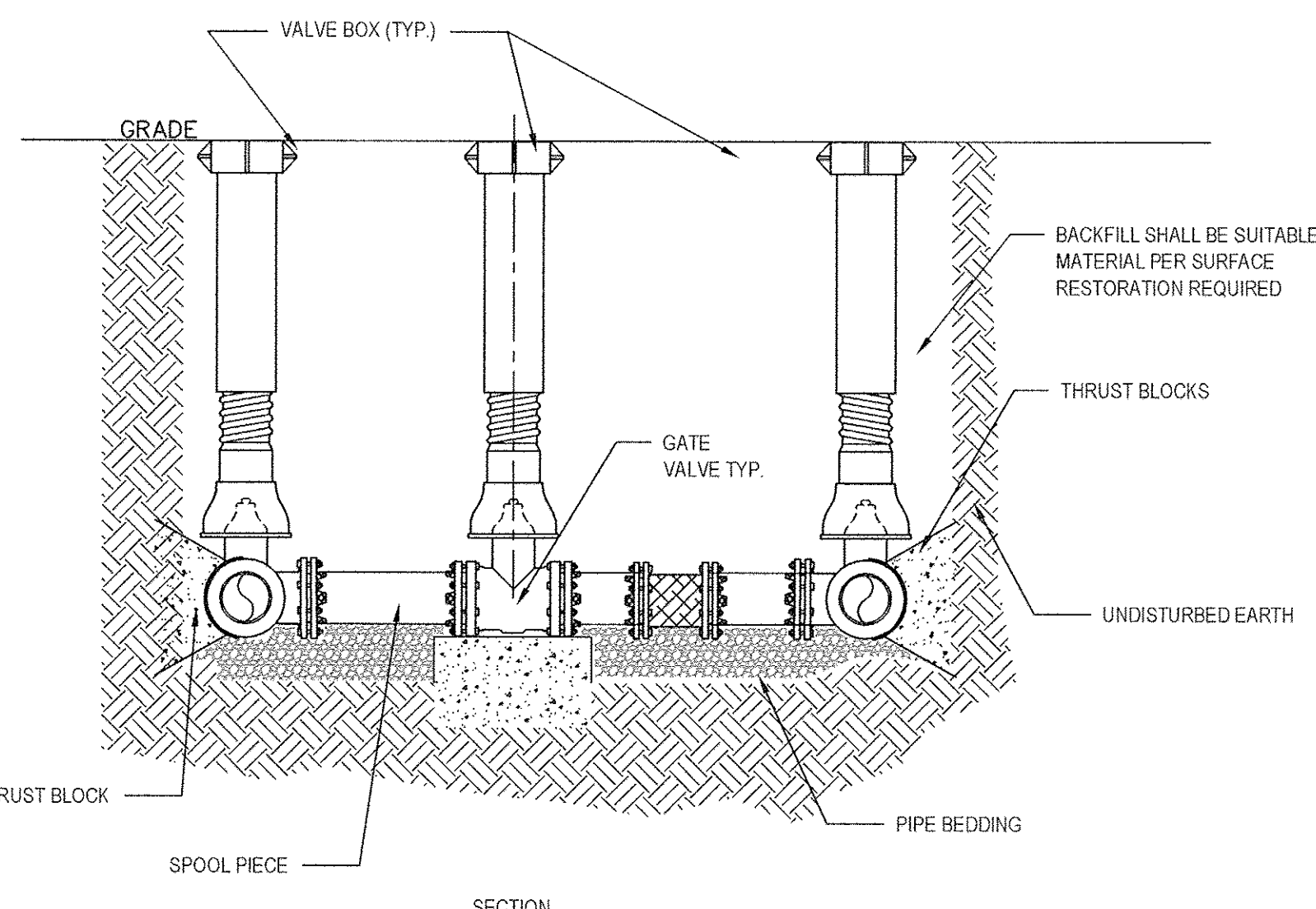
38
C049
SUMP PIT
SCALE: NONE



32
C049
PIPE PENETRATION DETAIL
SCALE: NONE



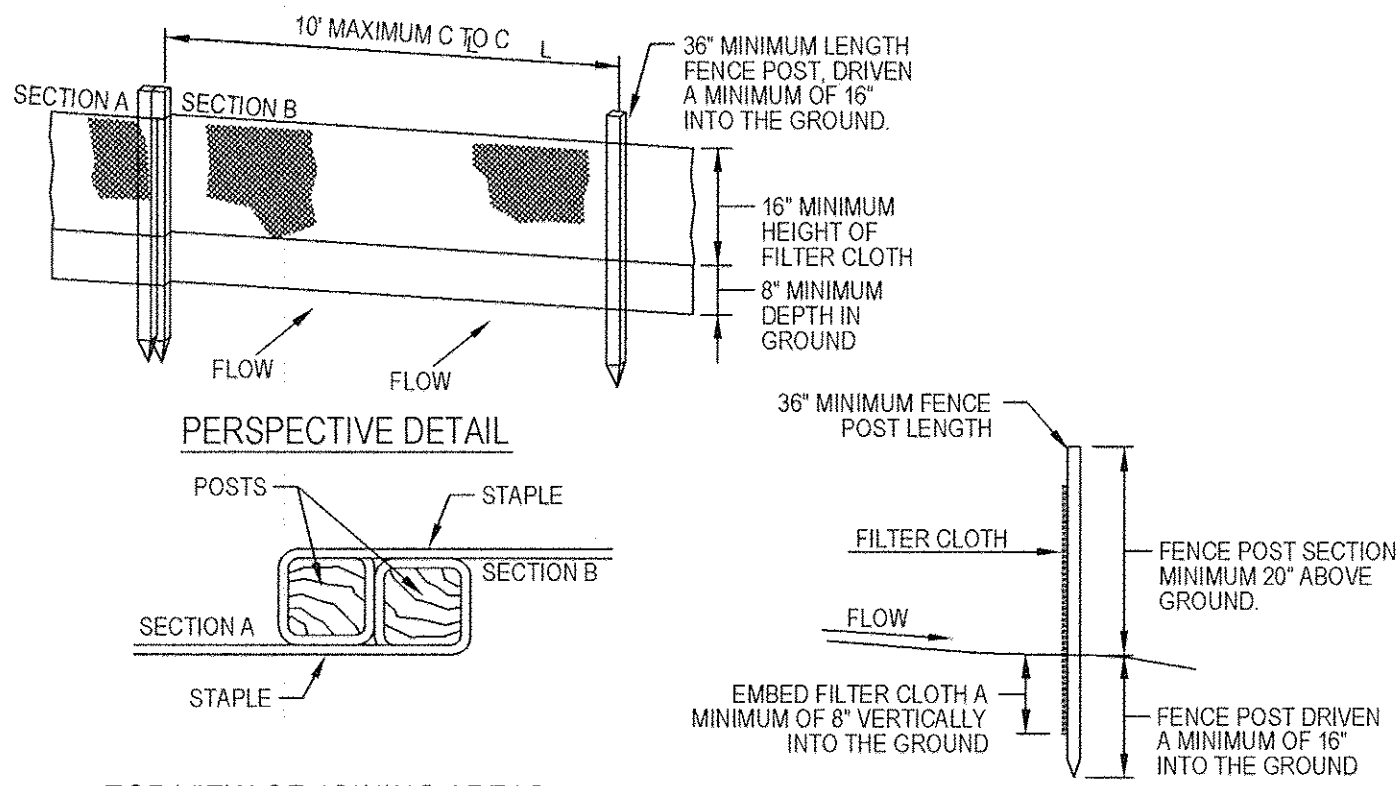
39
C049
INTER-CONNECTION DETAIL (TYP.)
SCALE: NONE



- NOTES:
1. ALL GATE VALES SHALL BE INSTALLED PER GATE VALVE INSTALLATION DETAIL.
 2. SPOOL PIECE MINIMUM LENGTH SHALL BE 18 INCHES.
 3. THRUST BLOCKS PER DETAIL
 4. ALL FITTINGS SHALL BE RESTRAINED JOINT

8616265-C045-C50.dwg
3/19/2007

<p>NOTES:</p> <p>UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.</p> <p>IT IS VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM ON THIS DRAWING IN ANYWAY. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE AND DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.</p>							<p>GHD Consulting Services Inc. One Remington Park Drive Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5801 E cazmail@ghd.com W www.ghd.com</p>		<p>Drawn JBA Designer JBA</p> <p>Drafting Check Design Check</p> <p>Approved (Project Director) <i>Kevin C.</i> Date</p> <p>Scale AS SHOWN</p>		<p>Client TOWN OF NORTH CASTLE, NEW YORK</p> <p>Project WD NO. 2 - DISTRIBUTION SYSTEM REPLACEMENT</p> <p>Title DETAILS</p> <p>Contract No. 1</p> <p>Original Size</p> <p>Ansi D Drawing No: 86-16265-C049</p>	
<p>0 FOR CONSTRUCTION</p> <p>No Revision Note: * indicates signatures on original issue of drawing or last revision of drawing</p> <p>Drawn JBA Job Manager JSS Project Director KC Date 05/14</p> <p>Plot Date: 8 May 2014 - 11:59 PM Plotted by: Joseph Awald</p>					<p>Cad File No: G:\8616265\CADD\Drawings\Civil\8616265-C045-C50.dwg</p>					<p>Rev: 0</p>		

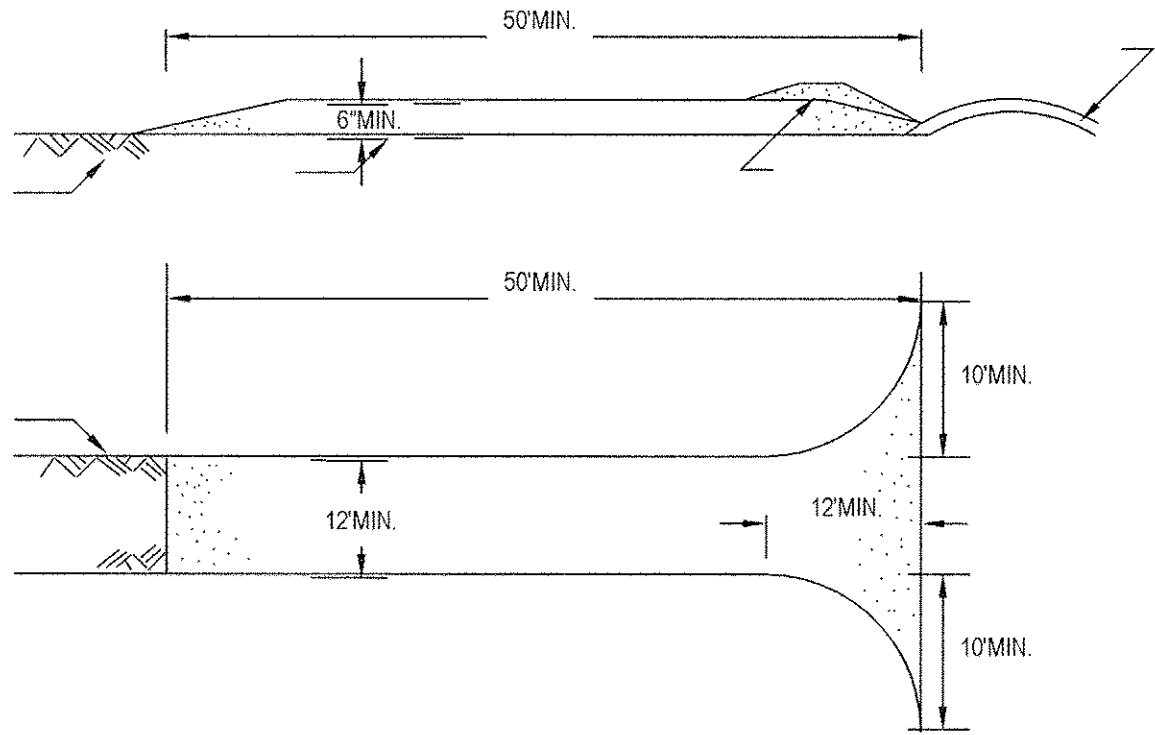


TOP VIEW OF JOINING AREAS

NOTES:

- WHERE ENDS OF THE FILTER CLOTH COME TOGETHER, THEY SHALL BE OVERLAPPED, FOLDED AND STAPLED TO PREVENT SEDIMENT BYPASS.
- ALL SILT FENCES SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE.
- THE AREA BELOW THE FENCE MUST BE UNDISTURBED OR STABILIZED.
- FENCE POSTS (FOR FABRIC UNITS): THE LENGTH SHALL BE A MINIMUM OF 36 INCHES LONG. WOOD POSTS 2 X 2 WITH A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES WILL BE OF SOUND QUALITY HARDWOOD. STEEL POSTS WILL BE STANDARD T OR U SECTION WEIGHT NOT LESS THAN 1.00 POUND PER LINEAR FOOT.

40 SILT FENCE
C050 SCALE: NONE

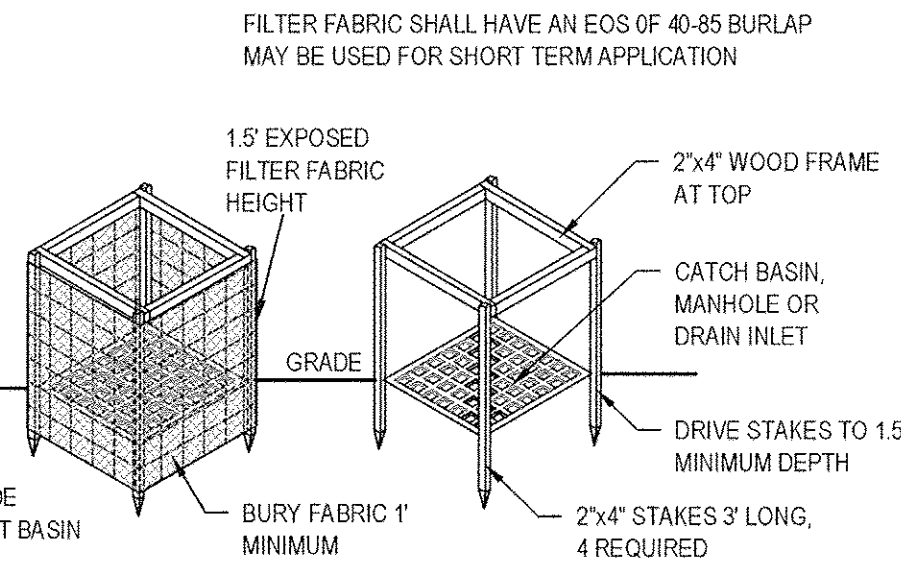


- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - NOT LESS THAN 50 FEET
- THICKNESS - NOT LESS THAN SIX (6) INCHES.
- WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
- STABILIZED CONSTRUCTION ENTRANCE'S SHALL BE PLACED SHALL BE COORDINATED WITH THE OWNER AND AT ALL CONSTRUCTION STAGING AREAS.

41 STABILIZED CONSTRUCTION ENTRANCE
C050 SCALE: NONE

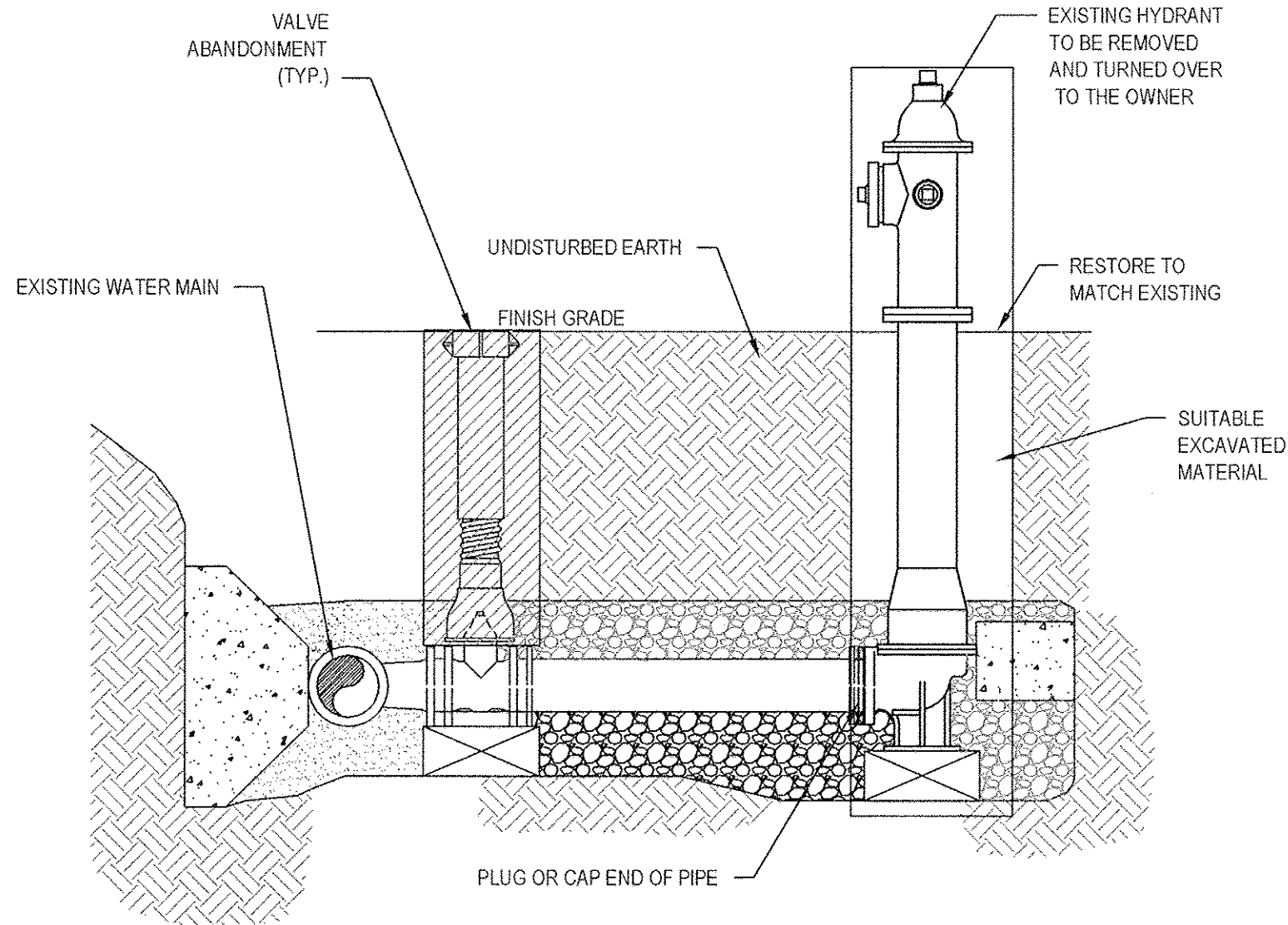
SET SILT FENCE PROTECTION AROUND INLET FRAME OR AS CLOSE TO FRAME AS FEASIBLE FOR STABLE STAKING

NOTE: GENERAL AREA AROUND INLET ±6' FROM FILTER FABRIC MAY BE EXCAVATED TO 1' DEPTH AS WATER POOL SEDIMENT TRAP

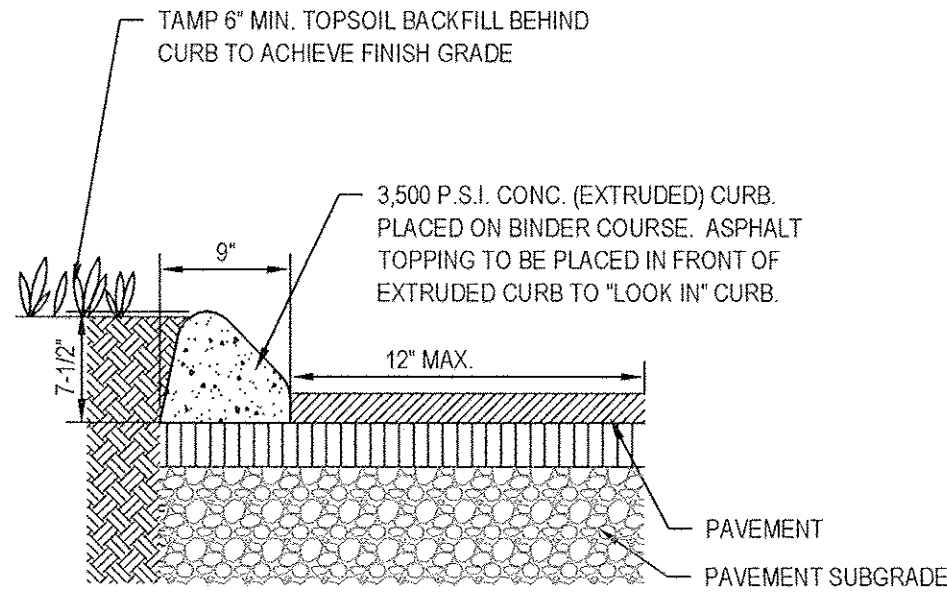


REPRODUCED FROM NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL

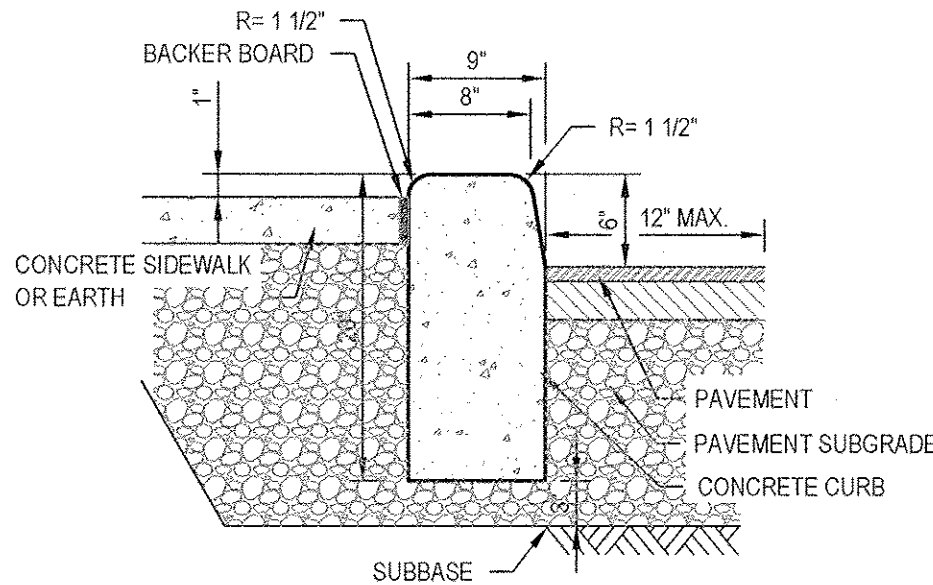
42 FILTER FABRIC INLET PROTECTION DETAIL
C050 SCALE: NONE



43 FIRE HYDRANT REMOVAL DETAIL
C050 SCALE: N.T.S



44 ASPHALT CURBING
C050 SCALE: N.T.S

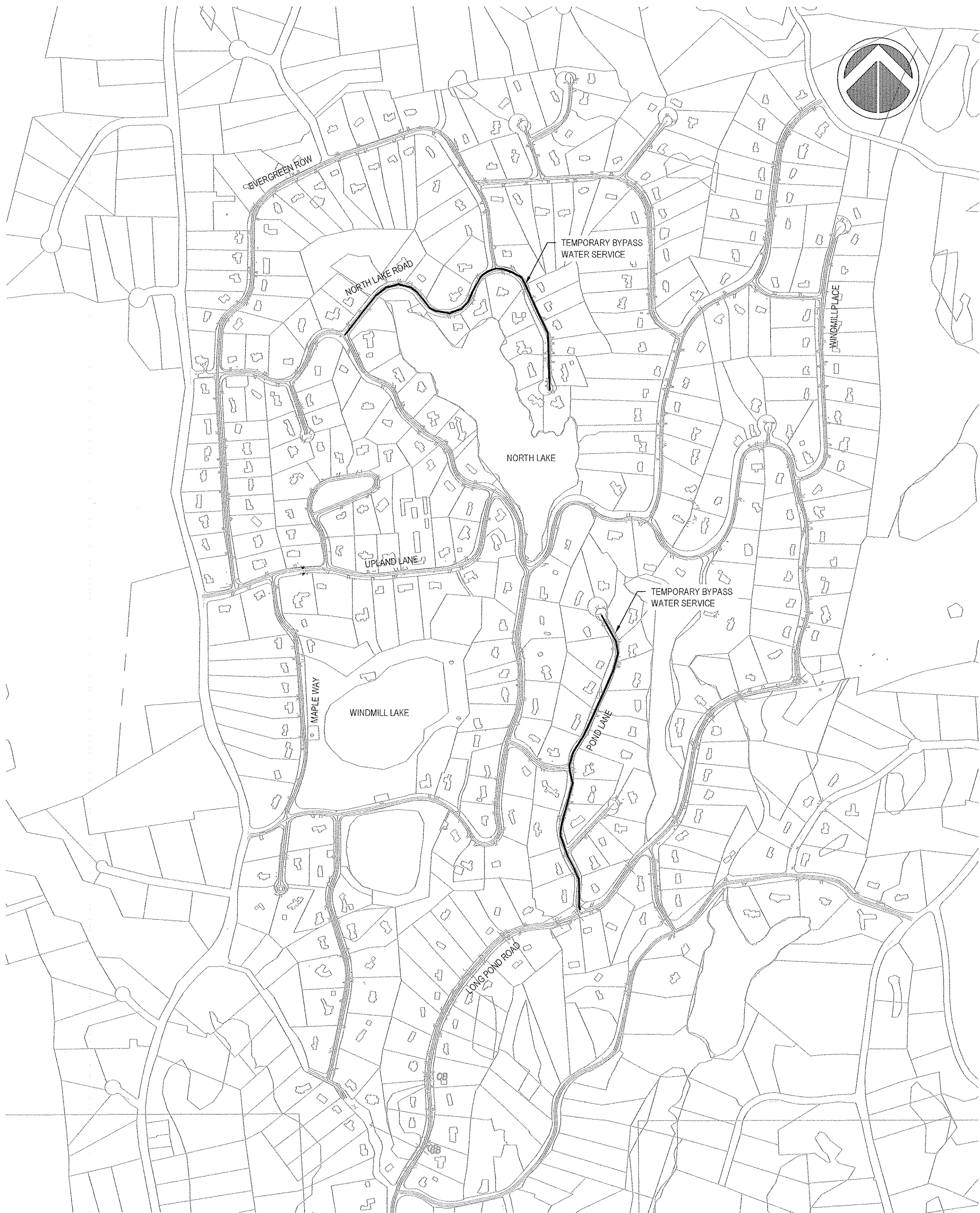


45 CONCRETE CURBING
C050 SCALE: N.T.S

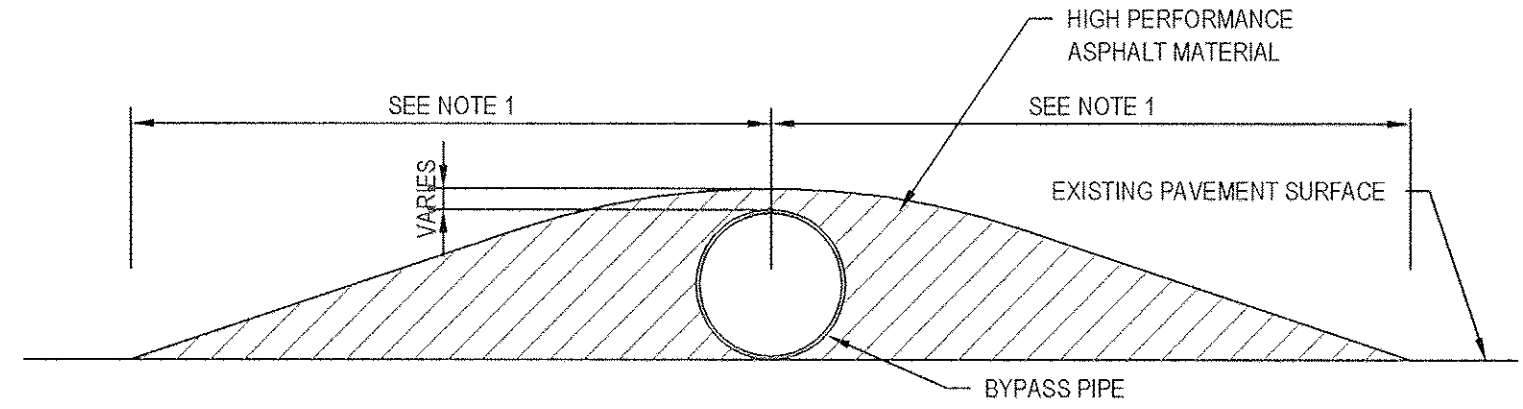
										NOTES:				GHD Consulting Services Inc. One Remington Park Drive Cazenovia NY 13035 USA T 1 315 679 5800 F 1 315 679 5801 E cazmail@ghd.com W www.ghd.com	Drawn JBA	Designer JBA	Client Project Title	TOWN OF NORTH CASTLE, NEW YORK WD NO. 2 - DISTRIBUTION SYSTEM REPLACEMENT DETAILS				
										UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.					Drafting Check	Design Check						
										IT IS VIOLATION OF NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM ON THIS DRAWING IN ANYWAY. IF AN ITEM IS ALTERED, THE ALTERING ENGINEER SHALL AFFIX TO THE ITEM HIS/HER SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY HIS/HER SIGNATURE AND DATE OF SUCH ALTERATION AND A SPECIFIC DESCRIPTION OF THE ALTERATION.					Approved (Project Director) <i>Kevin Castro</i>	Date						
0 FOR CONSTRUCTION										JBA	JSS	KC	05/14		Scale AS SHOWN		This Drawing shall not be used for Construction unless Signed and Sealed For Construction		Contract No. 1			
No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing			Drawn	Job Manager	Project Director	Date														
Plot Date: 9 May 2014 - 1:01 AM										Plotted by: Joseph Awald					Cad File No: G:\8616265\CADD\Drawings\Civil\8616265-C045-C50.dwg					Ansi D	Drawing No: 86-16265-C050	Rev: A

8616265-C51.dwg

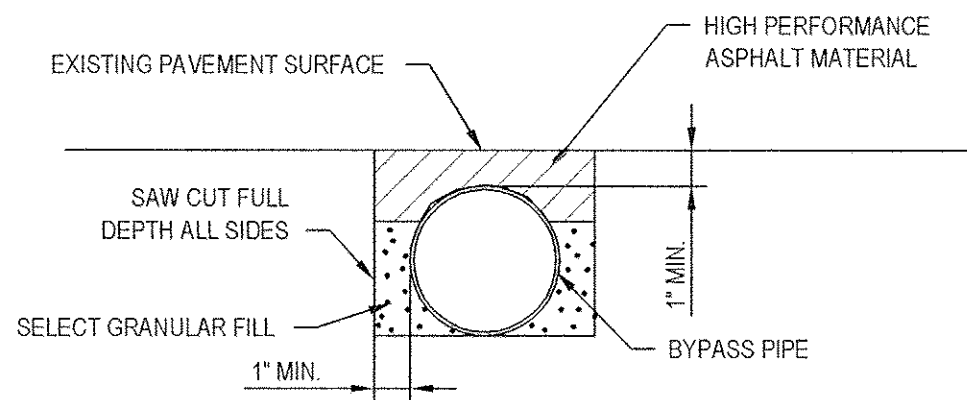
3/19/2007



PLAN
SCALE: 1" = 500'



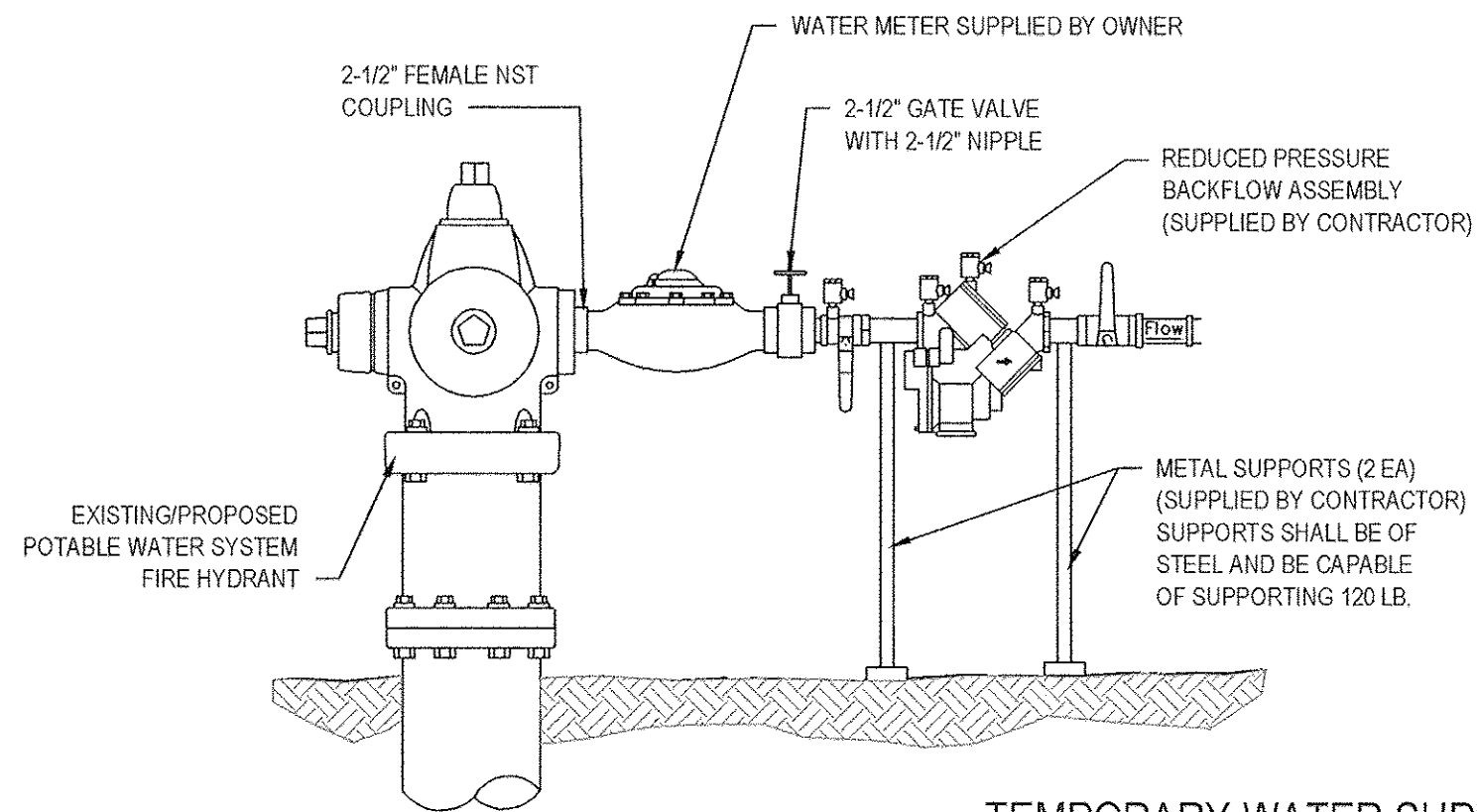
DRIVEWAY CROSSING



SIDEWALK AND STREET CROSSING

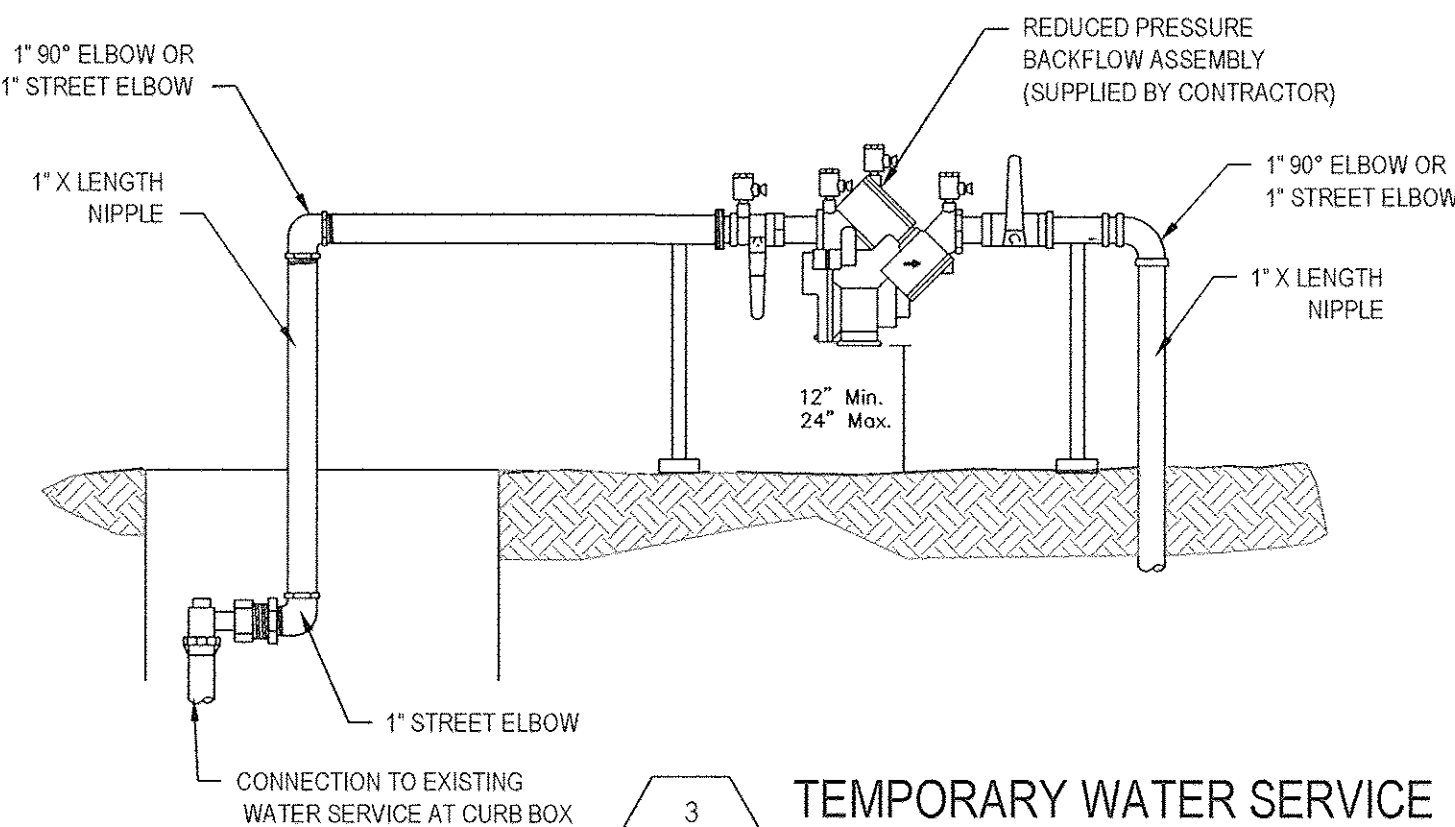
BYPASS PIPE CROSSING AT DRIVEWAY
SIDEWALK AND STREET

1
C051
SCALE: N.T.S.



TEMPORARY WATER SUPPLY
HYDRANT METER ASSEMBLY (TYP.)

2
C051
SCALE: N.T.S.



TEMPORARY WATER SERVICE

3
C051
SCALE: N.T.S.

NOTES:

1. WIDTH OF ASPHALT PAD FOR DRIVEWAY CROSSING WILL VARY DEPENDING UPON EXISTING CONDITIONS. WIDTH AND SLOPE WILL BE AS DIRECTED BY PROJECT MANAGER TO PERMIT SAFE VEHICULAR ACCESS.
2. HANDICAP ACCESSIBLE RAMP MAY BE USED INSTEAD OF RUNNING BYPASS PIPE UNDERGROUND FOR CROSSINGS ON SIDEWALK.

NOTES:

1. BACKFLOW ASSEMBLY SHALL BE TESTED BY A CERTIFIED BACKFLOW ASSEMBLY TESTER BEFORE USING AND ALSO EACH TIME THE METER IS MOVED.
2. USER MUST REMOVE BACKFLOW ASSEMBLY WHEN HYDRANT METER IS REMOVED OR RELOCATED.
3. USER IS LIABLE FOR ANY DAMAGE TO THE HYDRANT AND ALL ATTACHMENTS TO THE HYDRANT.
4. USER MUST USE GATE VALVE TO CONTROL FLOW OF WATER, NOT THE HYDRANT VALVE ASSEMBLY.

NOTES:

1. USER MUST SUPPLY ALL FITTINGS, NIPPLES, VALVES AND APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY. ALL FITTINGS AND NIPPLES MUST BE BRASS.
2. BACKFLOW ASSEMBLY MUST BE TESTED BEFORE USE.



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E cazmail@ghd.com W www.ghd.com

Drawn	JBA	Designer	JBA
Drafting Check		Design Check	
Approved (Project Director)			
Date			
Scale	AS SHOWN		

Client	TOWN OF NORTH CASTLE, NEW YORK		
Project	WD NO. 2 - DISTRIBUTION SYSTEM REPLACEMENT		
Title	TEMPORARY/BYPASS WATER SERVICE PLAN AND DETAILS		
Contract No.	1		
Original Size	Ansi D		
Drawing No:	86-16265-C051		
Rev:	0		

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
0	FOR CONSTRUCTION		JBA	JSS	KC	05/14

Plot Date: 9 May 2014 - 1:19 AM

Plotted by: Joseph Awald

Cad File No: G:\96116265\CADD\Drawings\Civil\96116265-C51.dwg

NOTES:

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