

TOWN OF WILLISTON, VERMONT CONTRACT DRAWINGS FOR LAMPLITE ACRES WATERLINE

CONTRACT No. 1
DWSRF LOAN #RF3-415
NOVEMBER, 2020

RECORD DRAWING
THE RECORD DRAWING INFORMATION FOR THIS PROJECT IS AS PROVIDED BY THE CONTRACTOR AND IS COMPILED FOR RECORD PURPOSES. THERE IS NO GUARANTEE OF ACCURACY.

SELECTBOARD

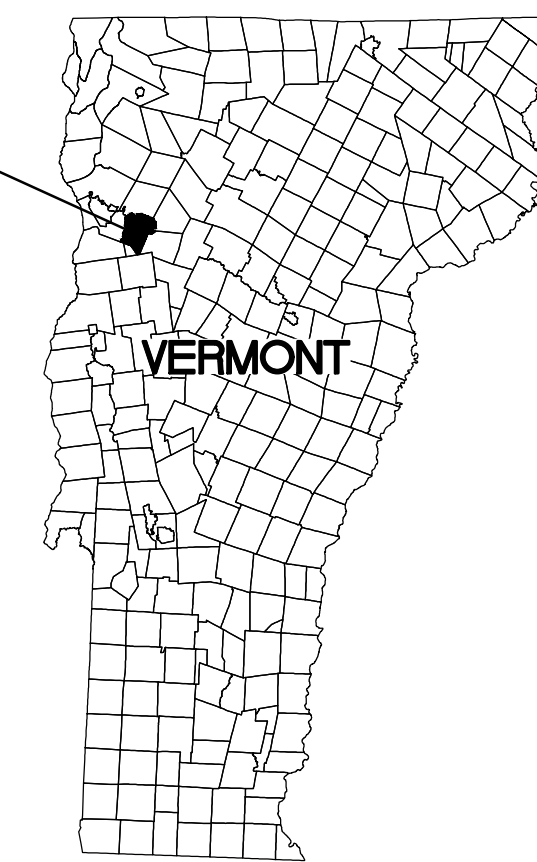
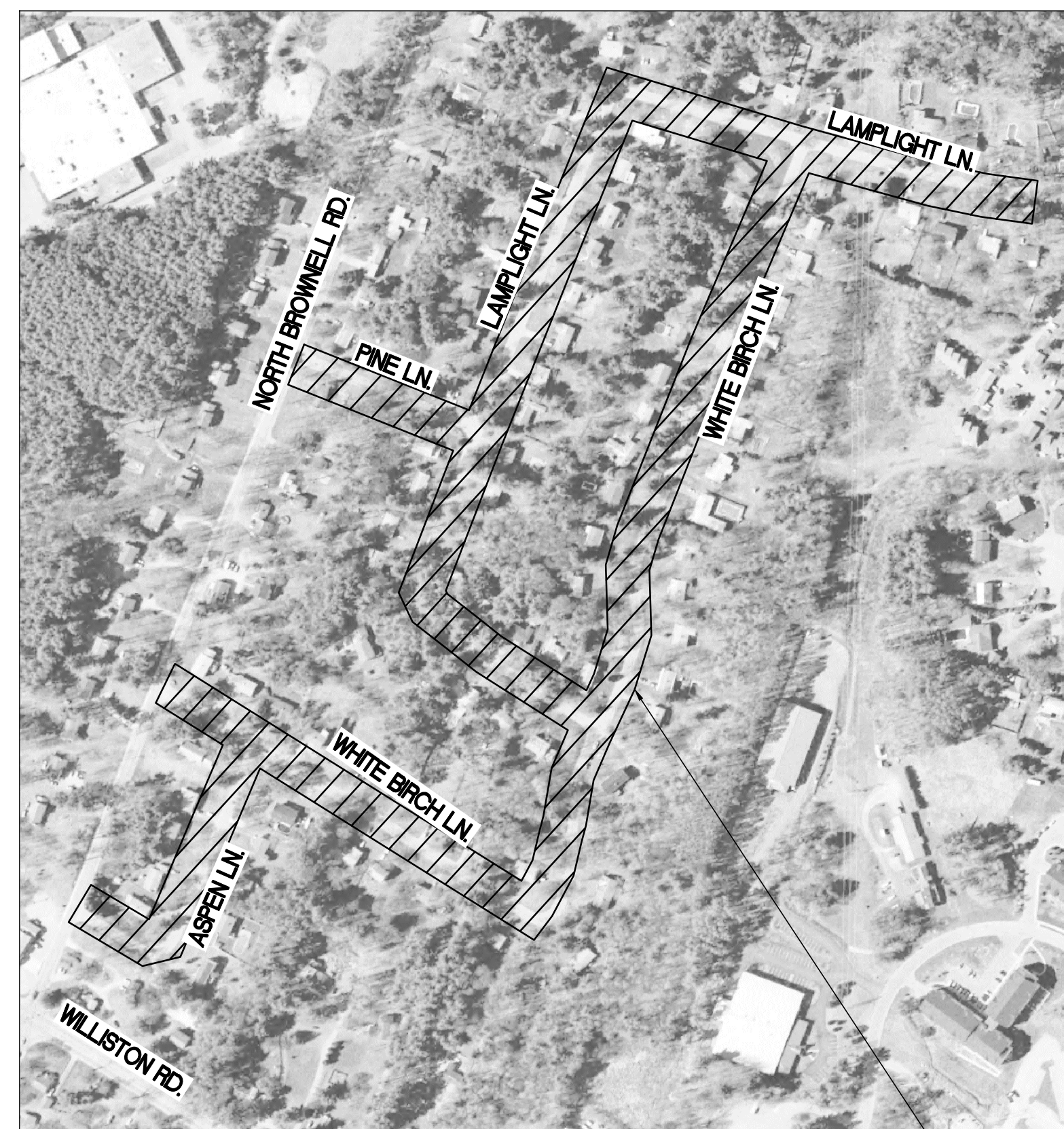
TERRY MACAIQ, CHAIR
JOY LIMOGÉ, VICE CHAIR
JEFF FEHRS
TED KENNEY
GORDON ST. HILAIRE

TOWN MANAGER

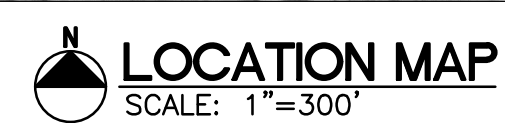
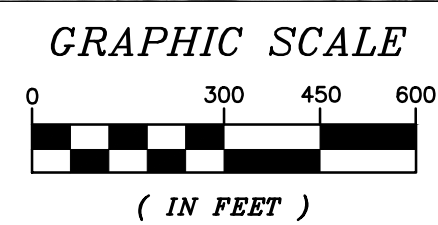
ERIK WELLS

PUBLIC WORKS DIRECTOR

BRUCE HOAR



PROJECT LOCATION



DRAWING No.	DRAWING TITLE
T	TITLE SHEET AND INDEX OF DRAWINGS
1	GENERAL NOTES AND LEGEND
2	OVERALL PLAN
3	ASPEN LANE PLAN AND PROFILE STA. 0+00 TO 7+31
4	WHITE BIRCH LANE PLAN AND PROFILE STA. 0+00 TO 10+00
5	WHITE BIRCH LANE PLAN AND PROFILE STA. 10+00 TO 20+00
6	WHITE BIRCH LANE PLAN AND PROFILE STA. 20+00 TO 29+68
7	LAMPLITE LANE PLAN AND PROFILE STA. 0+00 TO 10+00
8	LAMPLITE LANE PLAN AND PROFILE STA. 10+00 TO 20+00
9	LAMPLITE LANE PLAN AND PROFILE STA. 20+00 TO 28+33
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11	WATER DETAILS I
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13	ROADWAY DETAILS
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CHECKED	DESCRIPTION	DATE	No.
JAB	RECORD DRAWINGS	1/18/22	1

TOWN OF
WILLISTON,
VERMONT

LAMPLITE ACRES
WATERLINE
CONTRACT No. 1

TITLE SHEET AND
INDEX OF DRAWINGS

DESIGNED JEN	PROJECT NO. 19047
DRAWN JEN	DRAWING T
CHECKED WAE	
DATE NOV. 2020	

PLAN-EXISTING

PROPERTY LINE	---	PL	---	PL
RIGHT-OF-WAY	---	ROW	---	ROW
MAJOR CONTOUR	---	-360	---	-360
MINOR CONTOUR	---	-361	---	-361
WATERLINE	---	W	---	W
SANITARY SEWER	---	S	---	S
STORM DRAIN	---	SD	---	SD
UNDERGROUND GAS	---	GAS	---	GAS
OVERHEAD POWER	---	OHP	---	OHP
UNDERGROUND ELECTRIC/CABLE/TELEPHONE	---	UCE/C/T	---	UCE/C/T
FENCE-CHAIN LINK	---		---	
FENCE-WOOD	---		---	
TREE-BRUSH LINE	---		---	
BITUMINOUS PAVEMENT	---		---	
GRAVEL ROAD-DRIVE-PATH	---		---	
SIDEWALK-CONCRETE	---		---	
CURB	---		---	
GARDEN	---		---	
GATE VALVE	---	X	---	X
GATE VALVE-GAS	---	GX	---	GX
CURB STOP	---	CS	---	CS
FIRE HYDRANT	---	★	---	★
MANHOLE	---	○	---	○
CATCH BASIN	---	⊕	---	⊕
UTILITY POLE	---	⊙	---	⊙
LIGHT POLE	---	⊙	---	⊙
GUY WIRE	---	└	---	└
DECIDUOUS TREE	---	⊙	---	⊙
CONIFEROUS TREE	---	⊙	---	⊙
SURVEY STATION	---	△	---	△
PROPERTY PIN	---	•	---	•
MISCELLANEOUS SIGN	---	▼	---	▼

PROFILE-EXISTING

GROUND SURFACE	---	---
PIPE	---	---
UTILITY CROSSING	---	---

PLAN-PROPOSED

WATER	---	W
CAP	---	C
CAP WITH THRUST RESTRAINT	---	⊕
TRANSITION COUPLING	---	■
GATE VALVE	---	⊕
CURB STOP	---	•
FIRE HYDRANT	---	★
TEST PIT	---	⊕

PROFILE-PROPOSED

GROUND SURFACE	---	---
PIPE	---	---
INSULATION	---	---
TEE/BEND	---	---
HYDRANT BRANCH	---	---
GATE VALVE	---	---
TRANSITION COUPLING	---	---
CORPORATION STOP	---	---

3/4" CORP.

GENERAL CONSTRUCTION NOTES

1. SAFETY

- A. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF EMPLOYEES ON THE PROJECT AND SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF FEDERAL, STATE AND LOCAL SAFETY LAWS AND BUILDING CODES TO PREVENT ACCIDENTS OR INJURY. THE CONTRACTOR SHALL ERECT AND PROPERLY MAINTAIN AT ALL TIMES ALL NECESSARY SAFEGUARDS AND BARRICADES FOR THE PROTECTION OF EMPLOYEES ON THE WORK AND SAFETY OF OTHERS EMPLOYED NEAR THE WORK AND THE PUBLIC. FURTHER, THE CONTRACTOR SHALL POST DANGER SIGNS AND OTHER WARNING DEVICES TO PROTECT INDIVIDUALS FROM BEING INJURED IN THE VICINITY OF THE WORK.
- B. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE V.O.S.H.A. SAFETY REQUIREMENTS. THE CONTRACTOR SHALL INSURE ALL WORK PROCEEDS IN ACCORDANCE WITH V.O.S.H.A. REQUIREMENTS FOR SAFETY TRENCHING, EXCAVATION, CONFINED SPACE ENTRY PROCEDURES, AND WORKING AROUND ASBESTOS CEMENT PIPE.
- C. THE CONTRACTOR SHALL PROVIDE ADEQUATE EQUIPMENT AND FACILITIES AS ARE NECESSARY AND REQUIRED TO PROVIDE EMERGENCY FIRST AID TO ANY PERSON WHO MAY BE INJURED IN THE PROSECUTION OF THE WORK UNDER THIS CONTRACT.
- D. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY TRAFFIC CONTROL SIGNS AND DEVICES BEFORE COMMENCING WORK ON THE PROJECT IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- E. THE CONTRACTOR SHALL MAINTAIN ALTERNATING ONE-WAY TRAFFIC ON ALL STREETS, ROADS, AND HIGHWAYS, AS WELL AS MAKE PROVISIONS TO ALLOW CONTINUOUS ACCESS TO ALL ADJACENT PROPERTIES.

2. EASEMENTS

- A. THE CONTRACTOR SHALL PERFORM ALL WORK WITHIN TEMPORARY CONSTRUCTION EASEMENT LIMITS AND/OR RIGHTS-OF-WAY AS SHOWN ON THE PLANS.
- B. WHERE NO TEMPORARY CONSTRUCTION EASEMENT IS SHOWN ON CONTRACT DRAWINGS, THE CONTRACTOR SHALL STAY WITHIN THE PERMANENT EASEMENT LIMITS, AND/OR RIGHTS-OF-WAY DURING CONSTRUCTION, AS SHOWN ON THE PLANS.

3. PROTECTION OF WORK

- A. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THE PROTECTION OF ALL BUILDINGS, STRUCTURES AND UTILITIES (BOTH PUBLIC AND PRIVATE), INCLUDING POWER POLES, SIGNS, UTILITY SERVICES, WATER MAINS, HYDRANTS, SEWERS, FORCE MAINS, STORM DRAINS, BURIED ELECTRICAL OR CONTROL WIRES, GAS LINES, AND TELEPHONE CABLES WHETHER OR NOT THEY ARE SHOWN ON THE CONTRACT DRAWINGS.
- B. THE CONTRACTOR SHALL CAREFULLY SUPPORT AND PROTECT ANY UTILITIES, STRUCTURES, PIPE LINES, AND CONDUITS WHICH MAY BE ENCOUNTERED DURING COMPLETION OF THE WORK. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY HIM TO THE SATISFACTION OF THE ENGINEER AT CONTRACTOR'S EXPENSE.

4. MAINTENANCE OF FLOWS

- A. THE CONTRACTOR SHALL, AT HIS OWN COST, MAKE PROVISIONS FOR MAINTAINING FLOW THROUGH EXISTING FORCE MAINS, SEWER LINES, WATERLINES, STORM DRAINS, AND WATER COURSES WHICH MUST BE INTERRUPTED DURING THE PROGRESS OF THE WORK. UPON COMPLETION OF THE WORK, ALL TEMPORARY FLOW DIVERSIONS, STRUCTURES, AND PIPING SHALL BE REMOVED FROM THE SITE.

5. BURIED UTILITIES

- A. UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE ONLY. THOSE SHOWN ON THE DRAWINGS ARE BASED ON THE BEST AVAILABLE INFORMATION. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL MEET WITH THE ENGINEER, OWNER, REPRESENTATIVES OF THE TELEPHONE COMPANY, ELECTRICITY COMPANY, GAS COMPANY, CABLE COMPANY, AND ANY OTHER UTILITY COMPANIES INVOLVED WITH THE CONSTRUCTION OF THIS PROJECT TO COORDINATE THE MARKING, AND TIMING OF DISRUPTIONS OF THE VARIOUS UTILITIES, IF ANY.
- B. THE CONTRACTOR SHALL EXCAVATE TEST PITS AS SHOWN ON THE DRAWINGS OR AS APPROVED BY THE ENGINEER. THESE SHALL BE EXCAVATED TO LOCATE BURIED UTILITIES AND TO DETERMINE SIZE, LOCATIONS AND/OR MATERIALS OF EXISTING UTILITIES. SOME HAND EXCAVATING MAY BE NECESSARY TO PROTECT UTILITIES. TEST PITS SHALL BE EXCAVATED AT LEAST TWO (2) WEEKS PRIOR TO CONSTRUCTION SO THAT DESIGN REVISIONS MAY BE MADE IF REQUIRED. TEST PITS INDICATED ON DRAWINGS OR BY WRITTEN DIRECTION FROM THE ENGINEER WILL BE PAID FOR UNDER BID ITEM FOR MISC., EXTRA, AND BELOW GRADE EXCAVATION.
- C. EXISTING UTILITIES SHALL BE PROTECTED OR REMOVAL AND REPLACEMENT SHALL BE COORDINATED WITH THE APPROPRIATE COMPANY. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR REPAIR OF ANY SUCH DAMAGE AS QUICKLY AS POSSIBLE AT HIS OWN EXPENSE. ALL UTILITIES WHICH MAY BE BROKEN OR DAMAGED SHALL BE REPAIRED TO AS GOOD OR BETTER CONDITION AND RECONNECTED FOR SERVICE. SUBMIT ALL REPAIR METHODS TO THE ENGINEER FOR APPROVAL. NO REPAIR SHALL BE BACKFILLED PRIOR TO INSPECTION BY THE ENGINEER IN THE FIELD. CONTRACTOR SHALL TAKE MEASUREMENTS TO DOCUMENT WHERE ALL SERVICE REPAIRS ARE MADE. RECORDS SHALL BE MADE AVAILABLE TO THE ENGINEER AND OWNER UPON REQUEST AND PRIOR TO THE END OF CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN A SUPPLY OF REPAIR MATERIALS AND PIPE ON THE JOB SITE AT ALL TIMES IN ORDER TO MINIMIZE THE INCONVENIENCE CAUSED BY SUCH DAMAGE.

6. CONSTRUCTION

- A. THE CONTRACTOR SHALL USE ONLY DESIGNATED BENCH MARKS FOR REFERENCE ELEVATIONS.
- B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HOLDING UTILITY POLES AS NECESSARY. THE COST OF UTILITY POLE HOLDING SHALL BE INCIDENTAL TO THE PIPE. ALL WORK SHALL BE IN CONFORMANCE WITH UTILITY COMPANY REQUIREMENTS.
- C. EROSION CONTROL, AS NECESSARY, SHALL BE PROVIDED BY THE CONTRACTOR, IN ACCORDANCE WITH CONTRACT DOCUMENTS. EROSION CONTROLS SHALL BE IN PLACE DOWNSTREAM OF THE AREA OF CONSTRUCTION PRIOR TO THE START OF ANY EARTH DISTURBANCE. ALL DISTURBED AREAS ARE TO BE IMMEDIATELY STABILIZED.
- D. THE CONTRACTOR SHALL RESTORE ANY DISTURBED AREA WITHIN THREE (3) WORKING DAYS OF INITIAL DISTURBANCE. ALL RESTORATION SHALL BE AS GOOD OR BETTER THAN ORIGINAL CONDITION AND SHALL MEET THE REQUIREMENTS SET FORTH IN THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN BASIS OF DESIGN.
- E. ALL WATERMAIN SHALL BE CL 52 DUCTILE IRON AND ALL DUCTILE IRON PIPE AND FITTINGS SHALL BE POLYETHYLENE ENCASED.
- F. ALL WATER SERVICES 2" DIAMETER OR SMALLER SHALL BE TYPE K COPPER TUBING.
- G. REQUIRED DEPTH-OF-COVER:
 - a. **WATER MAINS:** WATER MAINS SHALL BE INSTALLED AT A MINIMUM DEPTH-OF-COVER OF NO LESS THAN SIX FEET, EXCEPT WHERE SPECIFICALLY SHOWN OR NOTED ON THE PLANS OR PROFILES. WHERE SHOWN OR NOTED ON THE PLANS OR PROFILES, OR WHEN APPROVED BY THE ENGINEER, THE MINIMUM REQUIRED DEPTH-OF-COVER MAY BE REDUCED TO FOUR FEET.
 - b. **WATER SERVICES:** WATER SERVICES SHALL BE INSTALLED AT A MINIMUM DEPTH-OF-COVER OF NO LESS THAN SIX FEET. WHERE LEDGE OR ROCK EXCAVATION IS REQUIRED, THE MINIMUM DEPTH-OF-COVER MAY BE REDUCED AS NEEDED TO LIMIT LEDGE OR ROCK EXCAVATION, BUT SHALL NOT BE LESS THAN FOUR FEET.
 - c. WHERE THE INSTALLED DEPTH-OF-COVER OF WATER MAINS OR WATER SERVICES IS LESS THAN SIX FEET, PROVIDE INSULATION AT A RATE OF TWO INCHES PER FOOT OF COVER LESS THAN SIX FEET, ROUNDED UP TO THE NEAREST TWO INCHES.

6. CONSTRUCTION (CONTINUED)

- H. SUBSURFACE EXPLORATION LOGS ARE BOUND IN THE SPECIFICATIONS.
- I. THE CONTRACTOR SHALL INSTALL A MECHANICAL PLUG IN THE END OF ALL PIPE WORK AT THE COMPLETION OF EACH WORK DAY TO SEAL IT FROM WATER AND SOIL.
- J. WATER SERVICES CROSSING THE ENTIRE OR MAJORITY WIDTH OF ASPEN LANE, WHITE BIRCH LANE, LAMPLITE LANE, AND PINE LANE SHALL BE INSTALLED VIA HORIZONTAL DIRECTIONAL DRILL (HDD), MOLING, OR OTHER METHOD APPROVED BY THE ENGINEER.
- K. EXISTING WATER SERVICES SHALL BE MAINTAINED DURING CONSTRUCTION. THE NEW SYSTEM SHALL BE TESTED, INSPECTED, CHLORINATED AND APPROVED PRIOR TO TRANSFERRING SERVICE TO NEW SYSTEM. NO WATER SHALL BE ALLOWED IN THE NEW SYSTEM UNTIL APPROVED BY THE OWNER AND ENGINEER, AND THE CONDITIONS IN THE AGENCY OF NATURAL RESOURCES, DRINKING WATER & GROUNDWATER PROTECTION DIVISION CONSTRUCTION PERMIT ARE COMPLETE.
- L. ADDITIONAL BENDS, AS NECESSARY, SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST. PROVIDE A MAXIMUM OF 45° BENDS FOR WATERMANS. NO 90° BENDS WILL BE ALLOWED.
- M. EXISTING WATER MAINS ARE UNDER PRESSURE. THE CONTRACTOR IS ADVISED TO TAKE PRECAUTIONS TO AVOID "BLOWING OUT" OF EXISTING WATERMANS FROM THE SIDES OF TRENCHES DURING CONSTRUCTION. TEMPORARY SHEETING AND BRACING MAY BE REQUIRED.
- N. THRUST BLOCKS SHALL BE PROVIDED FOR ALL WATERMAIN BENDS AND FITTINGS AND ARE INCIDENTAL TO THE UNIT PRICE OF THE PIPE.
- O. EROSION CONTROL, AS NECESSARY, SHALL BE PROVIDED BY THE CONTRACTOR, IN ACCORDANCE WITH CONTRACT DOCUMENTS. EROSION CONTROLS SHALL BE IN PLACE DOWNSTREAM OF THE AREA OF CONSTRUCTION PRIOR TO THE START OF ANY EARTH DISTURBANCE. ALL DISTURBED AREAS ARE TO BE IMMEDIATELY STABILIZED.
- P. ANY EXISTING WATER SERVICES THAT MAY INTERFERE WITH THE NEW WATER MAIN SHALL NOT BE RELOCATED AT LESS THAN THEIR EXISTING COVER. CONTRACTOR SHALL LOWER THE NEW WATER MAIN AND ALLOW ADEQUATE CLEARANCE.
- Q. ALL MAIN LINE GATE VALVES AND HYDRANT VALVES SHALL BE **OPEN LEFT (COUNTER CLOCKWISE) AS REQUIRED BY THE OWNER.**
- R. REMOVAL OF EXISTING VALVE BOXES SHALL BE CONSIDERED INCIDENTAL TO THE PIPE.
- S. CONTRACTOR SHALL DOCUMENT THE LOCATIONS OF EXISTING SEWER AND WATER SERVICES AS THEY ENCOUNTER THEM DURING CONSTRUCTION. WATER SERVICES SHALL BE INSTALLED WITH AT LEAST 10 FEET OF HORIZONTAL AND 18" OF VERTICAL SEPARATION FROM SEWER SERVICES WHENEVER POSSIBLE.
- T. CONTRACTOR SHALL EXPECT HIGH GROUND WATER AND BE PREPARED FOR DEWATERING FOR THE ENTIRE PROJECT.

7. SITEMARK

- A. THE CONTRACTOR IS RESPONSIBLE FOR RECORDING PRECONSTRUCTION CONDITIONS BY USE OF PHOTOGRAPHS, VIDEO, AND OTHER METHODS. EXISTING FENCES, GUARDRAILS, SIGNS, CATCH BASINS, CULVERTS, HEADWALLS, ETC. REMOVED BY THE CONTRACTOR SHALL BE REPLACED TO AT LEAST THEIR ORIGINAL CONDITION. THE COST OF THIS PRECONSTRUCTION DOCUMENTATION AND RECONSTRUCTION SHALL BE PAID FOR UNDER THE UNIT PRICE BID ITEM FOR PIPE WORK.
- B. ALL EXCESS MATERIAL SHALL BE DISPOSED OF OFF-SITE UNLESS OTHERWISE APPROVED BY THE OWNER. A COPY OF A WRITTEN AGREEMENT BETWEEN THE CONTRACTOR AND THE SITE OWNER SHALL BE SUBMITTED TO THE ENGINEER BEFORE ANY MATERIAL IS DEPOSITED ON ANY SITE. DISPOSAL OF EXCESS MATERIAL OFF-SITE SHALL BE PERFORMED IN ACCORDANCE WITH SOLID WASTE MANAGEMENT DIVISION REGULATIONS AND SHALL INCLUDE OBTAINING ANY REQUIRED PERMITS.
- C. CONTRACTOR IS RESPONSIBLE FOR RESTORING GRAVEL PATH, PAVED SHOULDERS, ROADWAY SURFACES, DRIVEWAYS, GRASSED AREAS, AND CULVERTS TO THE SAME OR BETTER CONDITION AT PROJECT COMPLETION. THE COST OF RESTORATION SHALL BE INCLUDED IN THE APPROPRIATE UNIT PRICE BID ITEM.
- D. SOME MAILBOXES AND SIGNS ARE NOT SHOWN ALONG PROJECT ROUTE FOR REASONS OF CLARITY. THE CONTRACTOR SHALL RESET ALL MAILBOXES AND SIGNS AS SOON AS POSSIBLE, AS CONSTRUCTION PERMITS AND/OR AS DIRECTED BY THE ENGINEER.
- E. TREES LOCATED WITHIN THE TEMPORARY CONSTRUCTION EASEMENT LIMITS SHALL NOT BE TRIMMED, DAMAGED, OR DESTROYED WITHOUT WRITTEN PERMISSION FROM THE PROPERTY OWNER ON A LOCATION BY LOCATION BASIS. DOCUMENTATION MUST BE FURNISHED TO THE ENGINEER PRIOR TO PERFORMING THE WORK.

8. RECORD DOCUMENTS

- A. ALL BURIED UTILITIES ENCOUNTERED SHALL BE DOCUMENTED WITH DEPTH AND THREE (3) TIES AND SHOWN BY THE CONTRACTOR ON RECORD DRAWINGS.

9. DIGSAFE

- A. CONTRACTOR SHALL NOTIFY DIG SAFE TWO (2) WEEKS PRIOR TO ANY ANTICIPATED EXCAVATIONS. CONTRACTOR SHALL NOT EXCAVATE IN ANY AREAS UNTIL DIG SAFE HAS BEEN TO THE SITE AND HAS MARKED UTILITIES. (DIG SAFE: 1-888-344-7233)

10. SURVEY

- A. TOPOGRAPHIC SURVEY DATUM IS BASED ON THE NATIONAL GEODETIC SURVEY USING NAD 83 (1996) HORIZONTAL DATUM AND NAVD 88 VERTICAL DATUM.
- B. PROPERTY AND RIGHT OF WAY (ROW) LINES SHOWN ON THESE DRAWINGS WERE OBTAINED FROM VERMONT CENTER FOR GEOGRAPHIC INFORMATION (VCGI). THEY SHOW AN APPROXIMATION OF PROPERTY AND ROW LINES AS THEY RELATE TO THE PROJECT DETAILS BASED ON THE SOURCE REFERENCE INFORMATION. A-E DOES NOT WARRANT THE ACCURACY OF THIS INFORMATION. THESE DRAWINGS SHALL NOT BE CONSTRUED AS A PROPERTY PLAT AND DO NOT DEFINE LEGAL RIGHTS OR MEET LEGAL REQUIREMENTS FOR A LAND SURVEY AS DESCRIBED IN 26 V.S.A. 2502(4).

AE
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WATER RESOURCE ENGINEERS
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No.	DATE	DESCRIPTION	CHECKED	
			JOB	RECORD DRAWINGS
1	1/19/22			

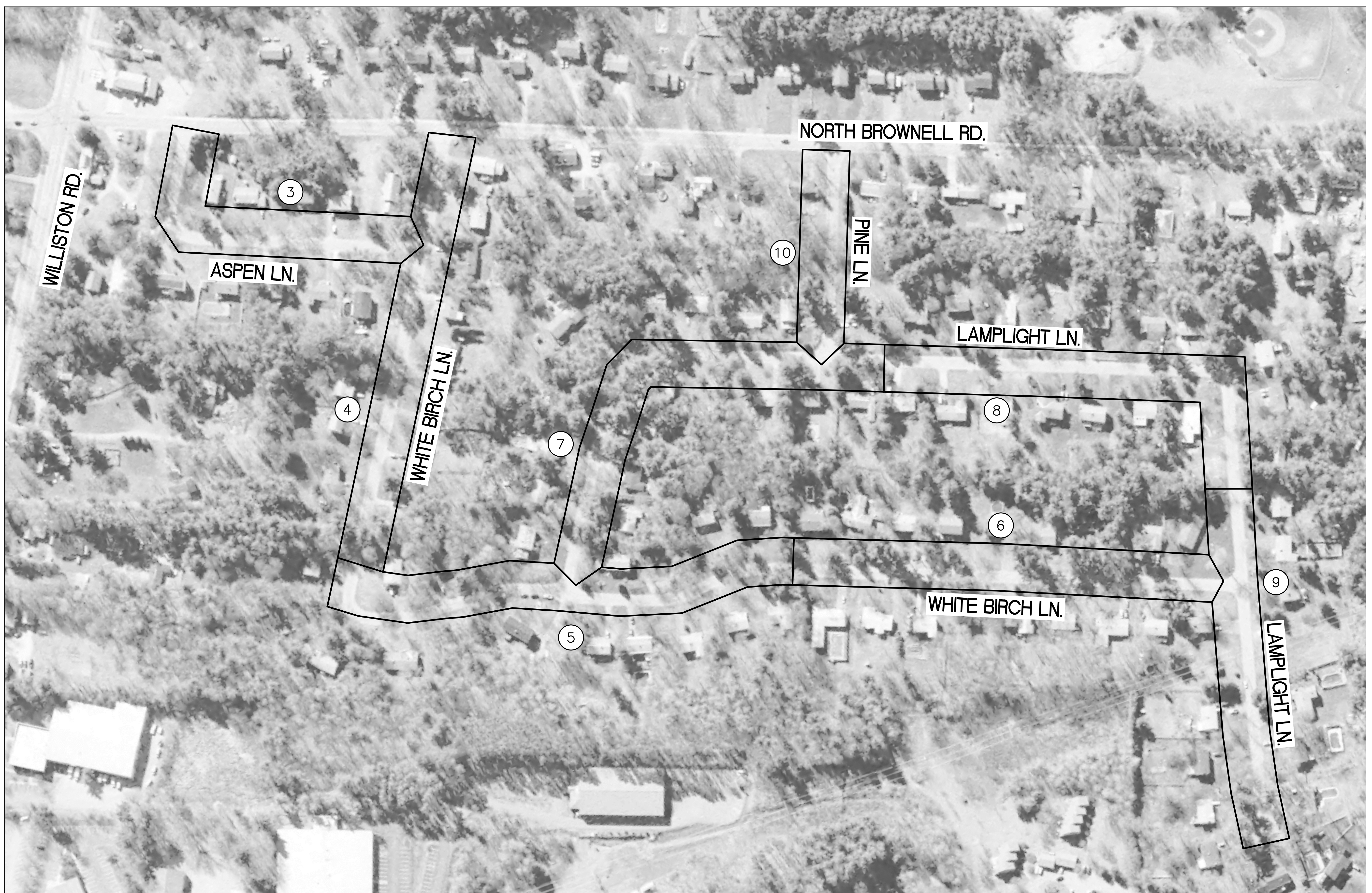
TOWN OF
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CONTRACT No. 1

**GENERAL
CONSTRUCTION
NOTES AND LEGEND**

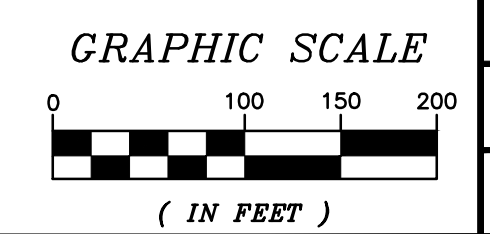
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DRAWN JEN	DRAWING 1
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LEGEND
DRAWING LIMITS.
DRAWING NUMBER. 3

OVERALL PLAN
SCALE: 1"=100'



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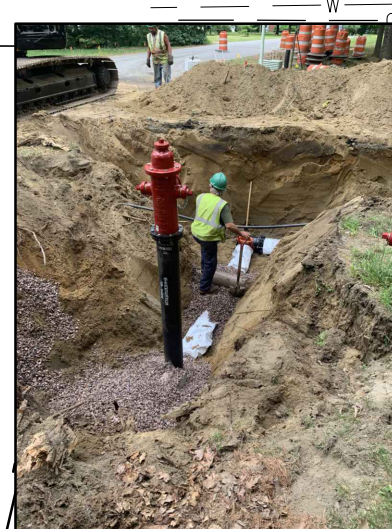
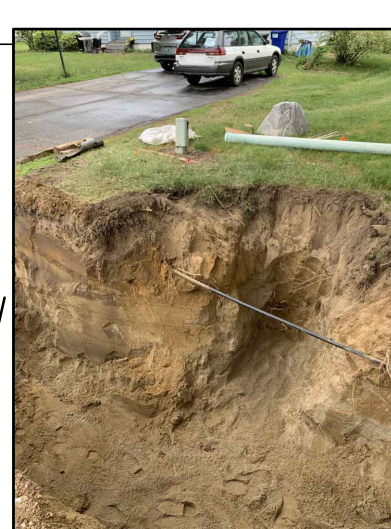
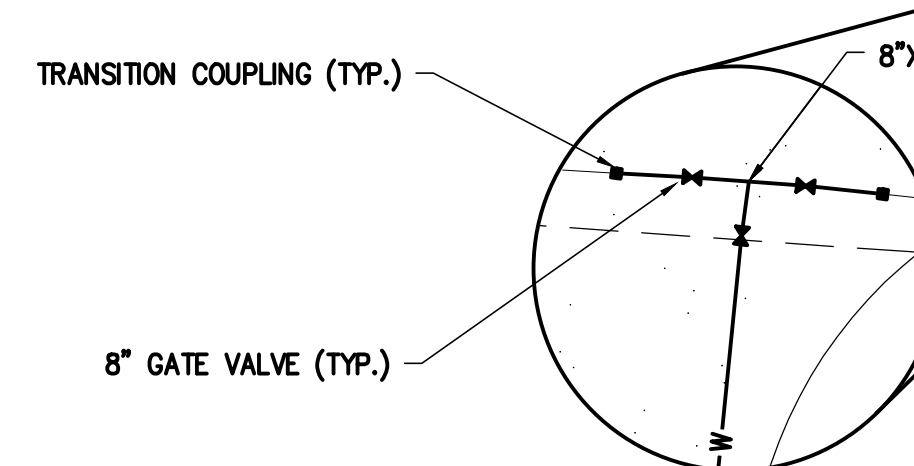
TOWN OF WILLISTON, VERMONT

LAMPLITE ACRES WATERLINE CONTRACT No. 1

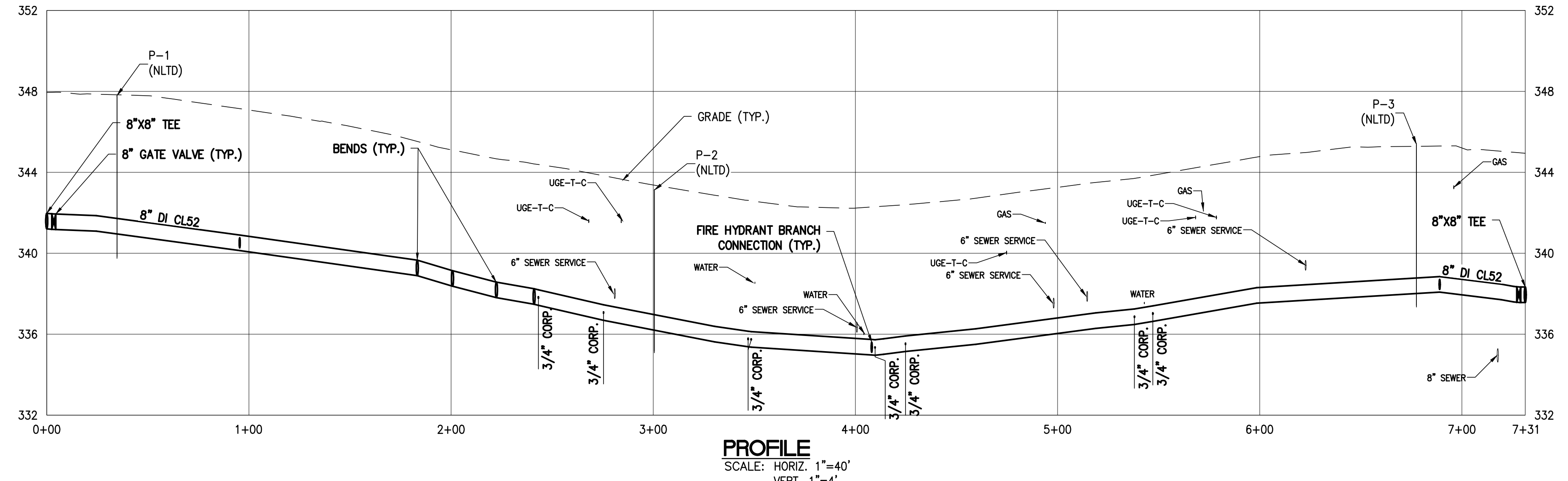
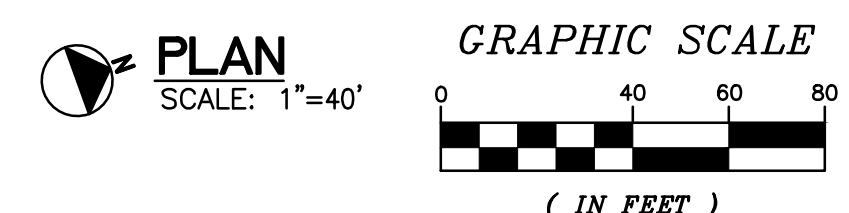
OVERALL PLAN

DESIGNED JEN	PROJECT NO. 19047
DRAWN JEN	DRAWING 2
CHECKED WAE	
DATE NOV. 2020	

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MEASURED DISTANCE							
	A	B	C	D	E	F	DESC.
1	90.7'	67'	101'	-	-	-	22.5' BEND
2	89.4'	70.5'	111.8'	-	-	-	22.5' BEND
3	88.4'	70.5'	114.5'	-	-	-	22.5' BEND
4	76.3'	67'	113'	-	-	-	11.25' BEND
5	-	-	-	20'	74.5'	75'	SOLID SLEEVE



CHECKED	DESCRIPTION	DATE	No.
JAB <td>RECORD DRAWINGS <td>1/18/22</td> <td>1</td> </td>	RECORD DRAWINGS <td>1/18/22</td> <td>1</td>	1/18/22	1

TOWN OF WILLISTON, VERMONT

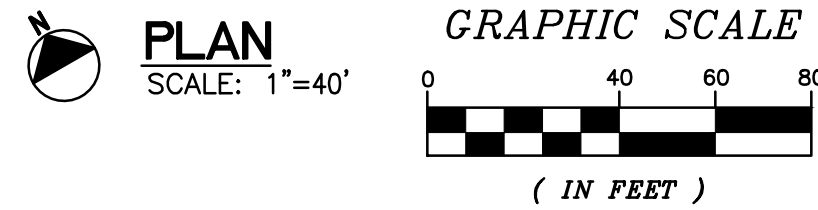
LAMPLITE ACRES WATERLINE CONTRACT No. 1

ASPEN LANE PLAN AND PROFILE STA. 0+00 TO 7+31

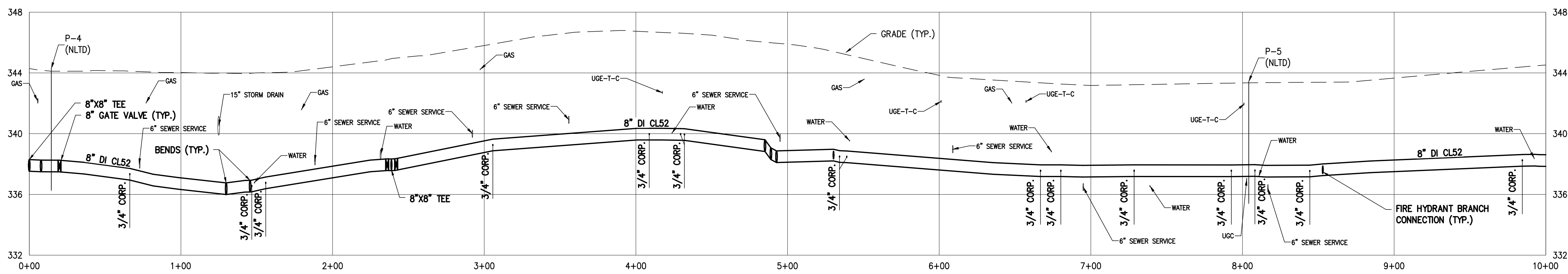
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DRAWN JEN	DRAWING 3
CHECKED WAE	
DATE NOV. 2020	

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	A	B	C	D	E	F	G	H	I	DESC.
1	20.4'	41.5'	86.3'	-	-	-	-	-	-	45° BEND
2	16.5'	46'	42'	-	-	-	-	-	-	45° BEND
3	-	-	-	97.6'	110.3'	140.8'	-	-	-	22.5° BEND
4	-	-	-	96'	108'	137.9'	-	-	-	22.5° BEND
5	-	-	-	94.5'	105.9'	135.1'	-	-	-	11.25° BEND
6	-	-	-	-	-	-	87'	91.5'	18.5'	3/4" CORP.



PROFILE
 SCALE: HORIZ. 1"=40'
 VERT. 1"=4'

CHECKED	JOB

DESCRIPTION	RECORD DRAWINGS

DATE	1/18/22

No.	1

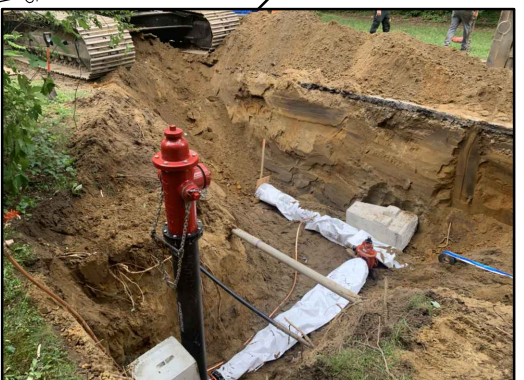
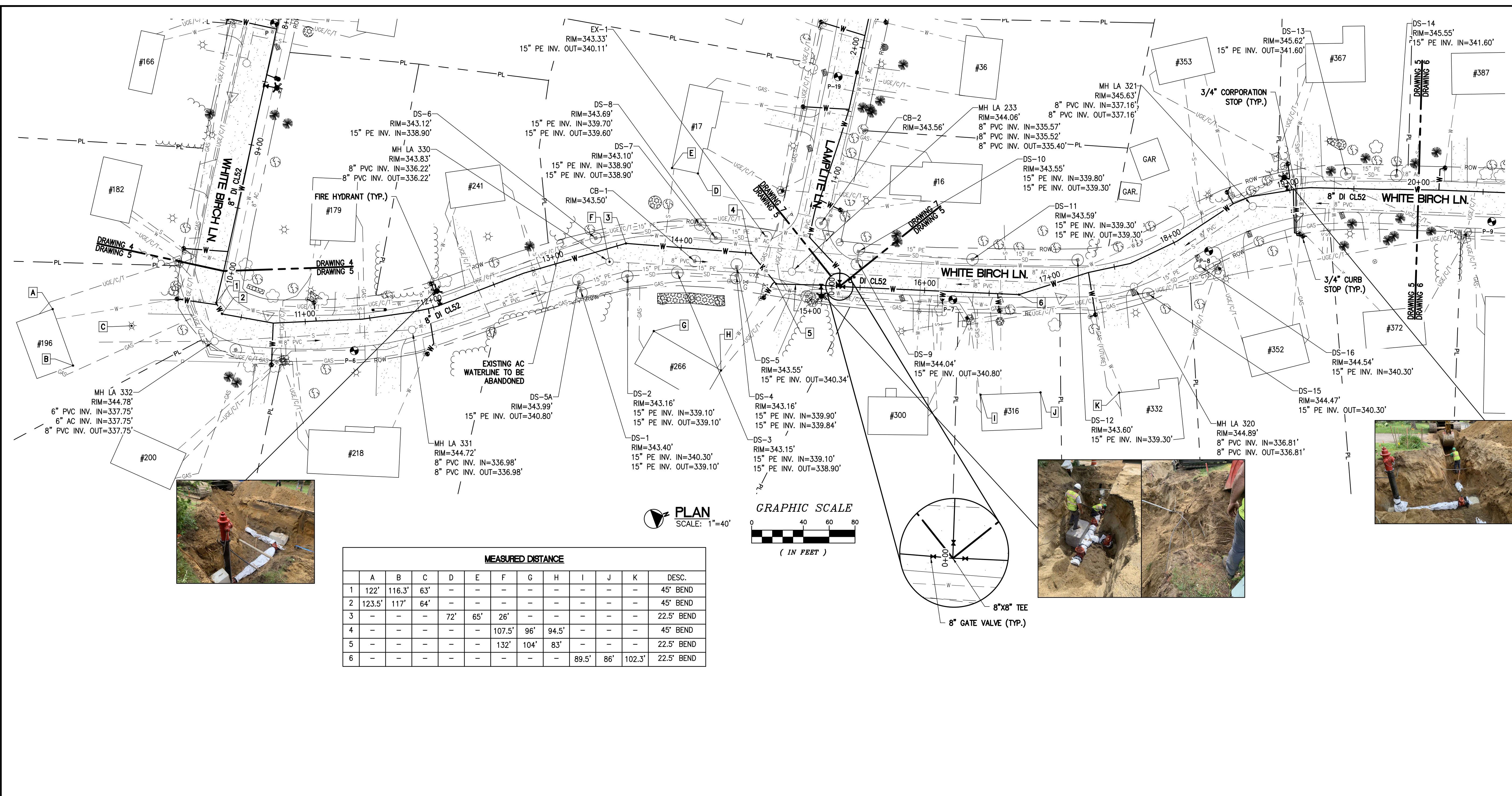
TOWN OF
 WILLISTON,
 VERMONT

LAMPLITE ACRES
 WATERLINE
 CONTRACT No. 1

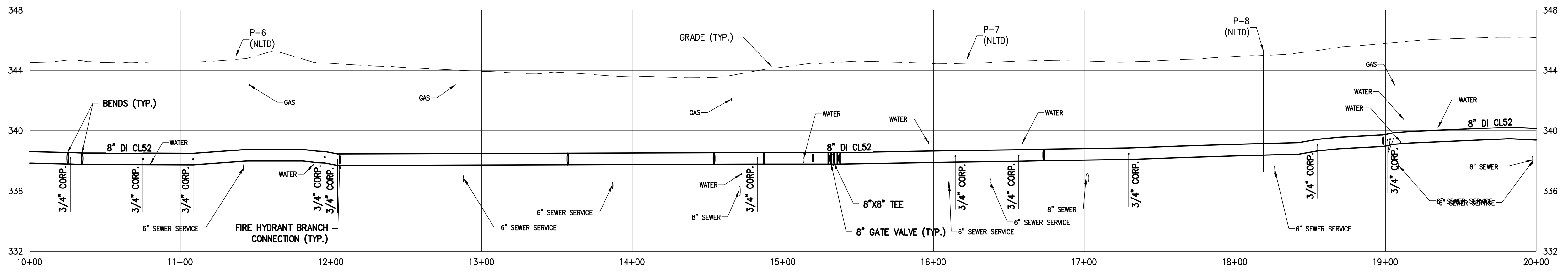
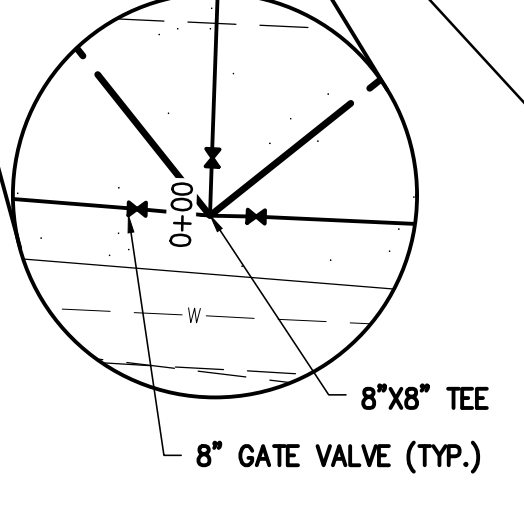
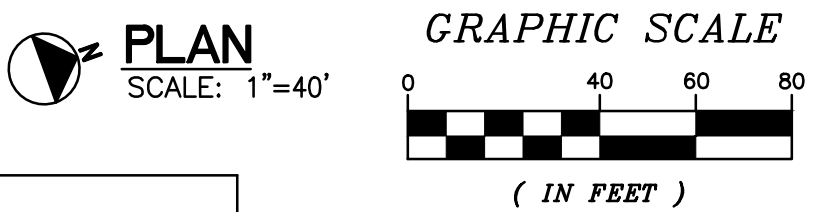
WHITE BIRCH LANE
 PLAN AND PROFILE
 STA. 0+00 TO 10+00

DESIGNED JEN	PROJECT NO. 19047
DRAWN JEN	DRAWING 4
CHECKED WAE	
DATE NOV. 2020	

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MEASURED DISTANCE												
	A	B	C	D	E	F	G	H	I	J	K	DESC.
1	122'	116.3'	63'	-	-	-	-	-	-	-	-	45' BEND
2	123.5'	117'	64'	-	-	-	-	-	-	-	-	45' BEND
3	-	-	-	72'	65'	26'	-	-	-	-	-	22.5' BEND
4	-	-	-	-	-	107.5'	96'	94.5'	-	-	-	45' BEND
5	-	-	-	-	-	132'	104'	83'	-	-	-	22.5' BEND
6	-	-	-	-	-	-	-	-	89.5'	86'	102.3'	22.5' BEND



PROFILE
 SCALE: HORIZ. 1"=40'
 VERT. 1"=4'

RECORD DRAWING
 THE RECORD DRAWING INFORMATION FOR THIS PROJECT IS AS PROVIDED BY THE CONTRACTOR AND IS COMPILED FOR RECORD PURPOSES. THERE IS NO GUARANTEE OF ACCURACY.

CHECKED	DESCRIPTION	DATE	No.
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TOWN OF
 WILLISTON,
 VERMONT

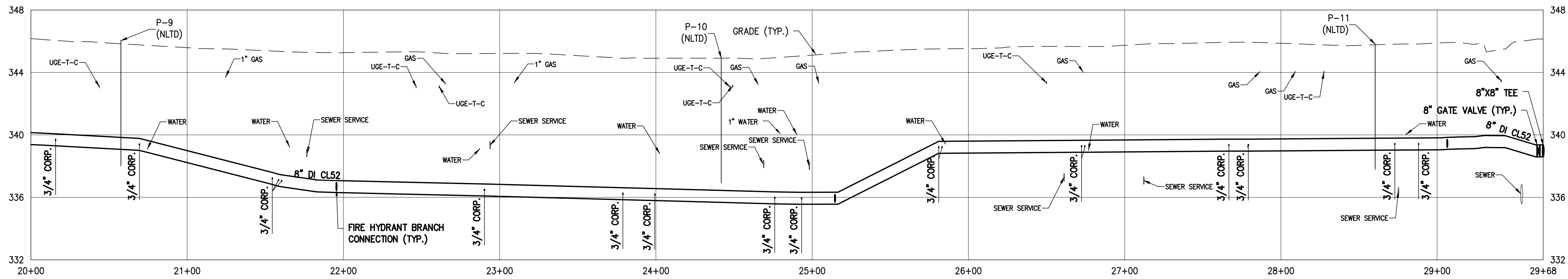
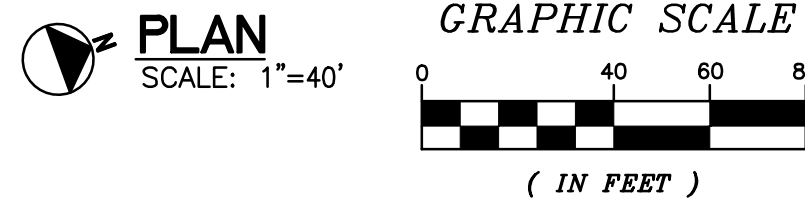
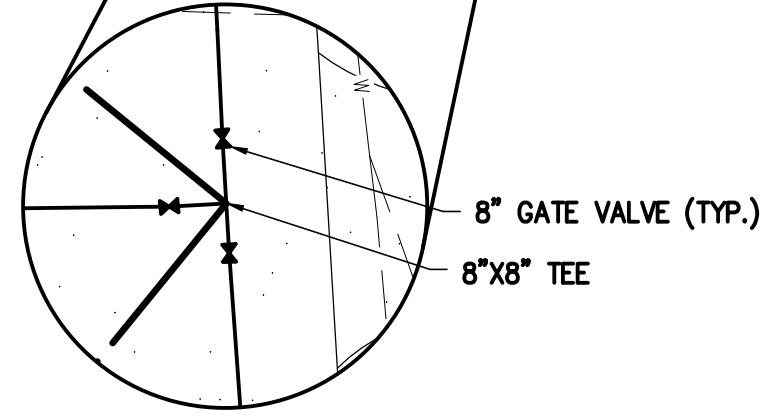
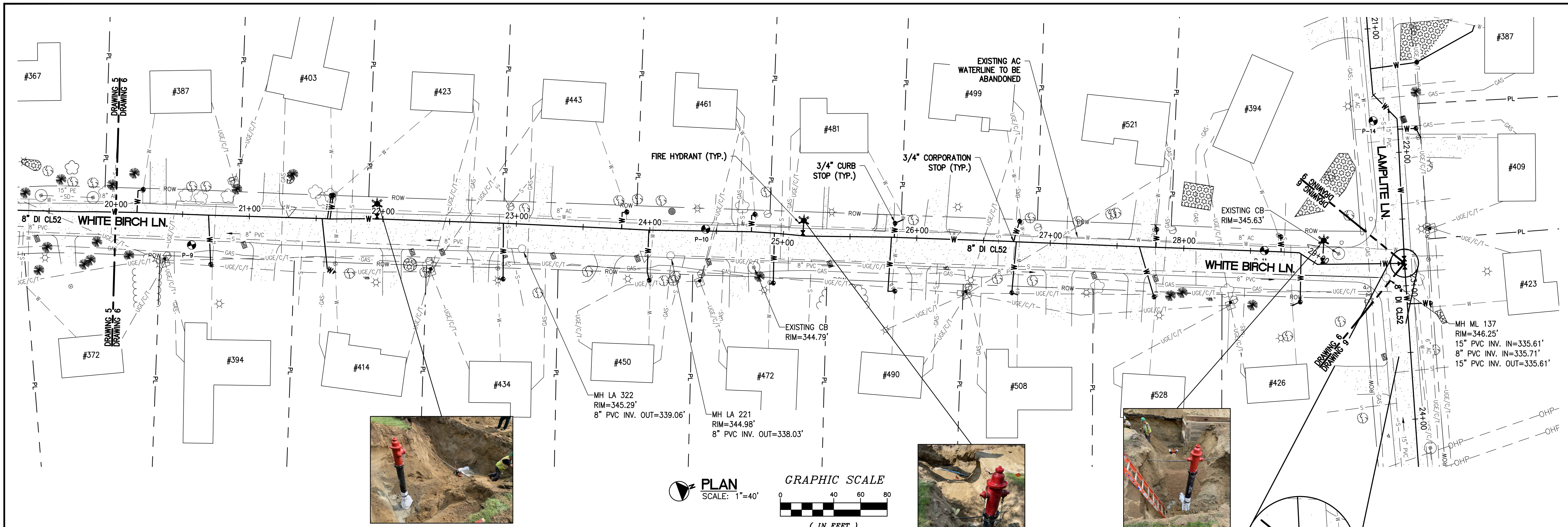
LAMPLITE ACRES
 WATERLINE
 CONTRACT No. 1

WHITE BIRCH LANE
 PLAN AND PROFILE
 STA. 10+00 TO 20+00

DESIGNED JEN	PROJECT NO. 19047
DRAWN JEN	DRAWING 5
CHECKED WAE	DATE NOV. 2020

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PROFILE
SCALE: HORIZ. 1"=40'
VERT. 1"=4'

RECORD DRAWING
THE RECORD DRAWING INFORMATION FOR THIS PROJECT IS AS PROVIDED BY THE CONTRACTOR AND IS COMPILED FOR RECORD PURPOSES. THERE IS NO GUARANTEE OF ACCURACY.

NO.	DATE	DESCRIPTION	CHECKED	JOB
1	1/18/22	RECORD DRAWINGS		

TOWN OF
WILLISTON,
VERMONT

LAMPLITE ACRES
WATERLINE
CONTRACT No. 1

WHITE BIRCH LANE
PLAN AND PROFILE
STA. 20+00 TO
29+68

DESIGNED JEN	PROJECT NO. 19047
DRAWN JEN	DRAWING 6
CHECKED WAE	
DATE NOV. 2020	

MEASURED DISTANCE													
	A	B	C	D	E	F	G	H	I	J	K	L	DESC.
1	15'	20.2'	39'	-	-	-	-	-	-	-	-	-	45' BEND
2	20.3'	22'	28.8'	-	-	-	-	-	-	-	-	-	22.5' BEND
3	22.4'	23.6'	27'	-	-	-	-	-	-	-	-	-	22.5' BEND
4	41.2'	39.5'	14'	-	-	-	-	-	-	-	-	-	45' BEND
5	-	-	-	91'	82.7'	20.5'	-	-	-	-	-	-	8" SOLID SLEEVE
6	-	-	-	-	-	-	34.3'	31'	31.5'	-	-	-	45' BEND
7	-	-	-	-	-	-	24'	28.6'	45.4'	-	-	-	45' BEND
8	-	-	-	-	-	-	-	-	-	51'	54.7'	12.8'	22.5' BEND
9	-	-	-	-	-	-	-	-	-	28.6'	38.3'	32.9'	11.25' BEND
10	-	-	-	-	-	-	-	-	-	20.5'	37.6'	50'	45' BEND
11	-	-	-	-	-	-	-	-	-	14.2'	31.4'	66.6'	45' BEND

RECORD DRAWING

THE RECORD DRAWING INFORMATION FOR THIS PROJECT IS AS PROVIDED BY THE CONTRACTOR AND IS COMPILED FOR RECORD PURPOSES. THERE IS NO GUARANTEE OF ACCURACY.

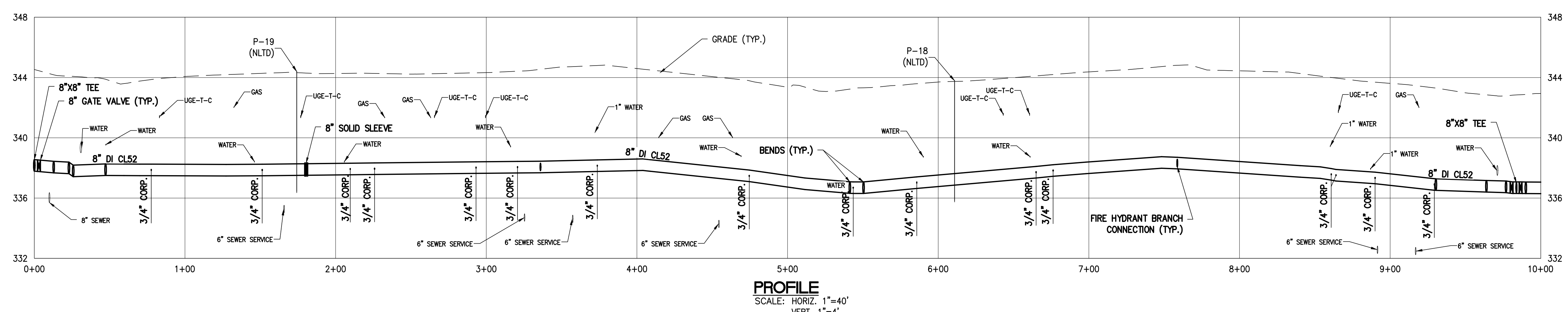
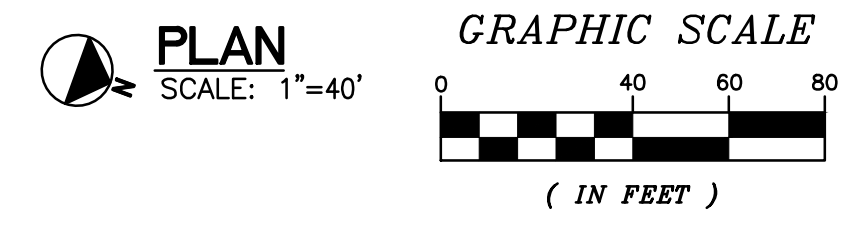
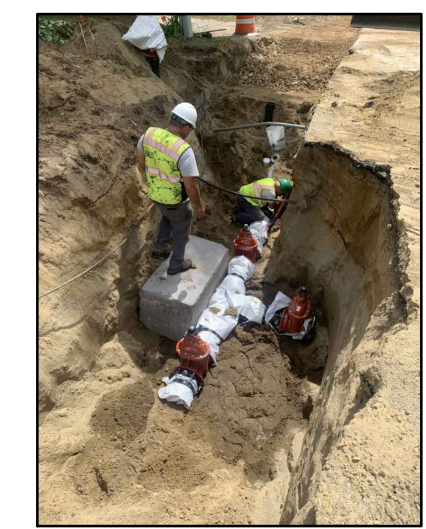
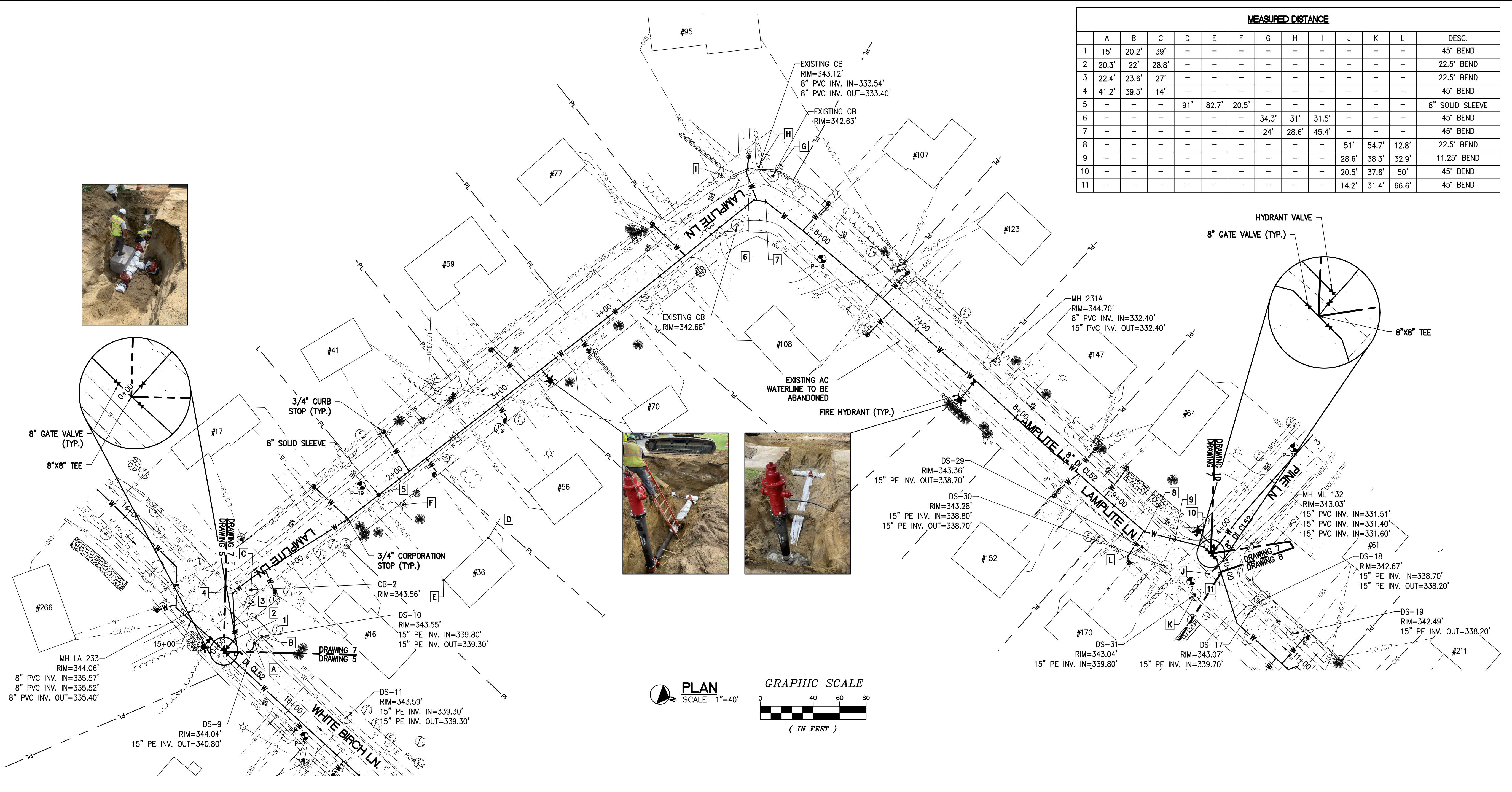
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DESCRIPTION	RECORD DRAWINGS
DATE	NO.
1/18/22	1

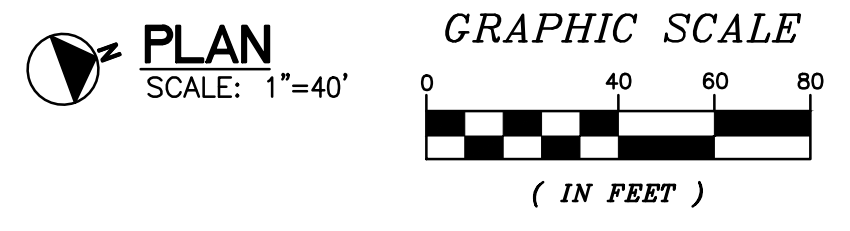
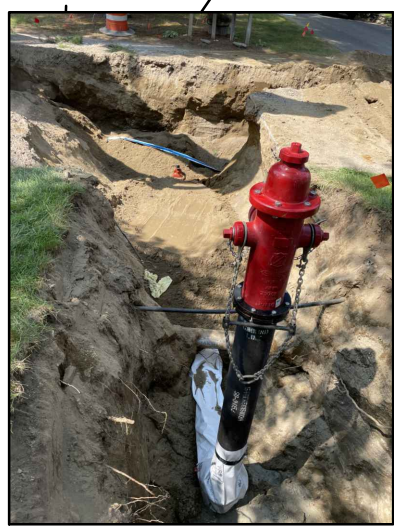
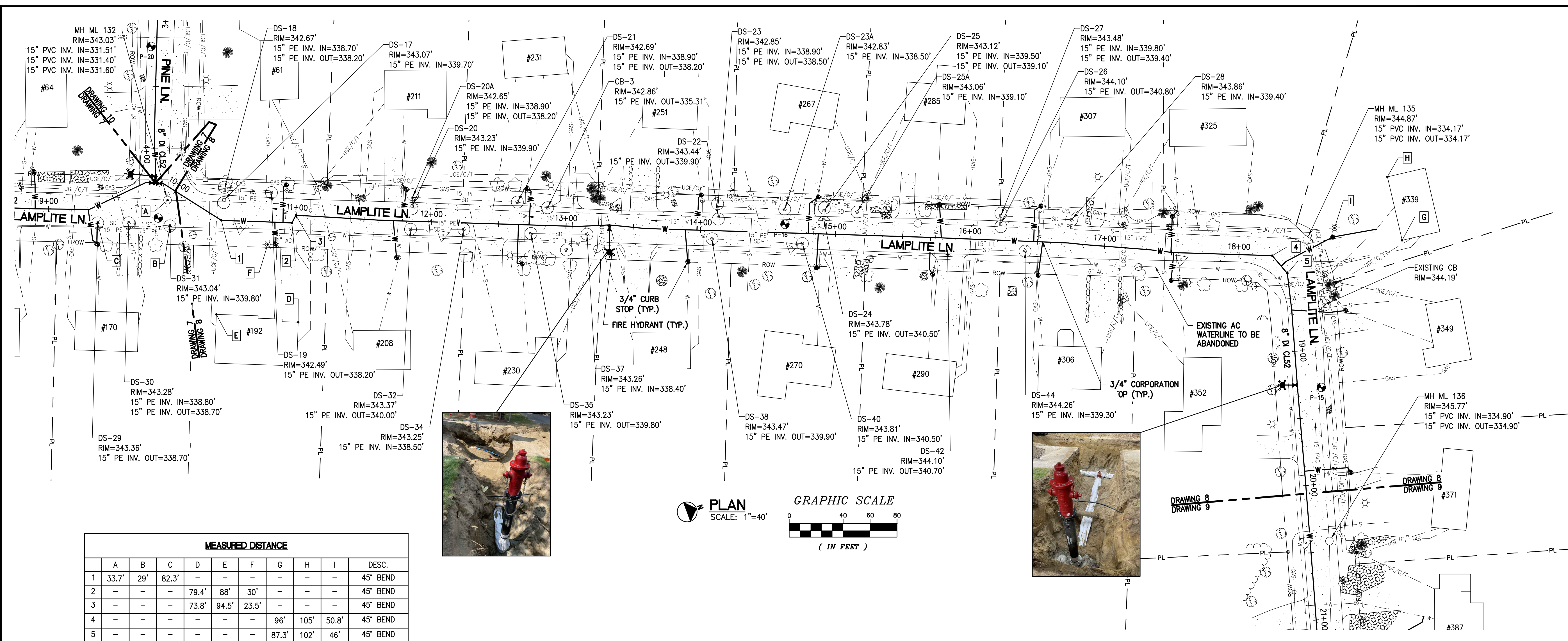
TOWN OF WILLISTON, VERMONT

LAMPLITE ACRES WATERLINE CONTRACT No. 1

LAMPLITE LANE PLAN AND PROFILE STA. 00+00 TO 10+00

DESIGNED JEN	PROJECT NO. 19047
DRAWN JEN	DRAWING 7
CHECKED WAE	
DATE NOV. 2020	





MEASURED DISTANCE										
	A	B	C	D	E	F	G	H	I	DESC.
1	33.7'	29'	82.3'	-	-	-	-	-	-	45° BEND
2	-	-	-	79.4'	88'	30'	-	-	-	45° BEND
3	-	-	-	73.8'	94.5'	23.5'	-	-	-	45° BEND
4	-	-	-	-	-	-	96'	105'	50.8'	45° BEND
5	-	-	-	-	-	-	87.3'	102'	46'	45° BEND

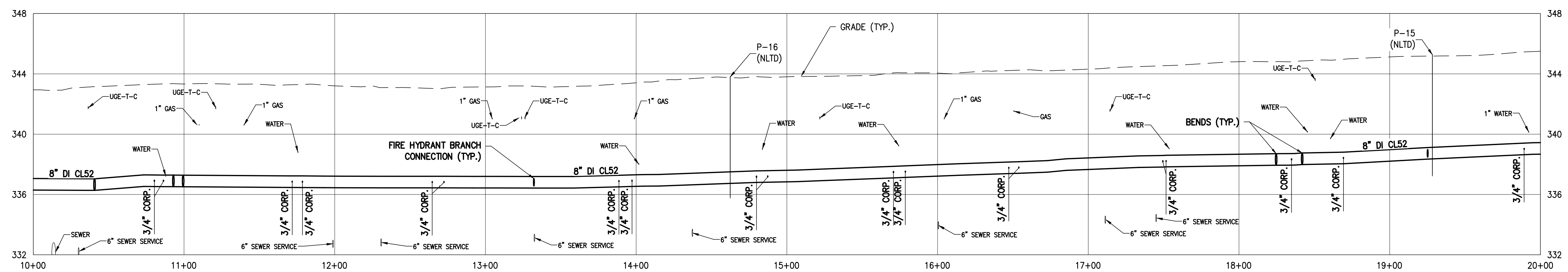
RECORD DRAWING
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NO.	DATE	DESCRIPTION	CHECKED
1	1/18/22	RECORD DRAWINGS	JAB

TOWN OF WILLISTON, VERMONT

LAMPLITE ACRES WATERLINE CONTRACT No. 1

LAMPLITE LANE PLAN AND PROFILE STA. 10+00 TO 20+00

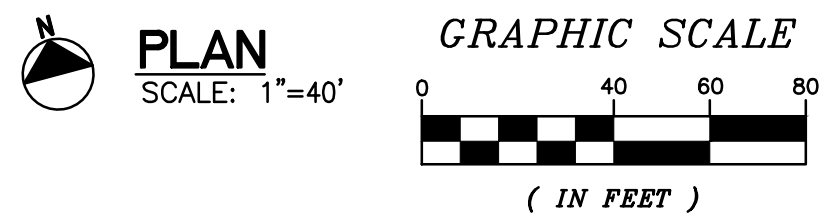
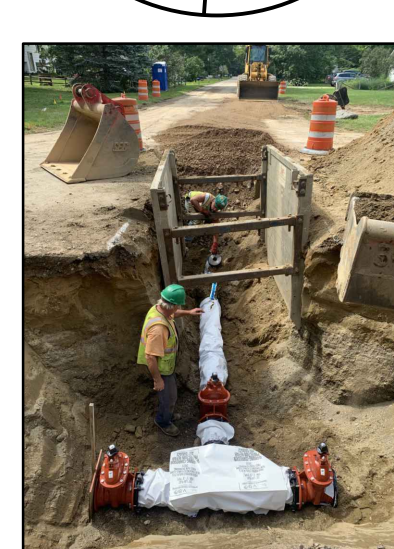
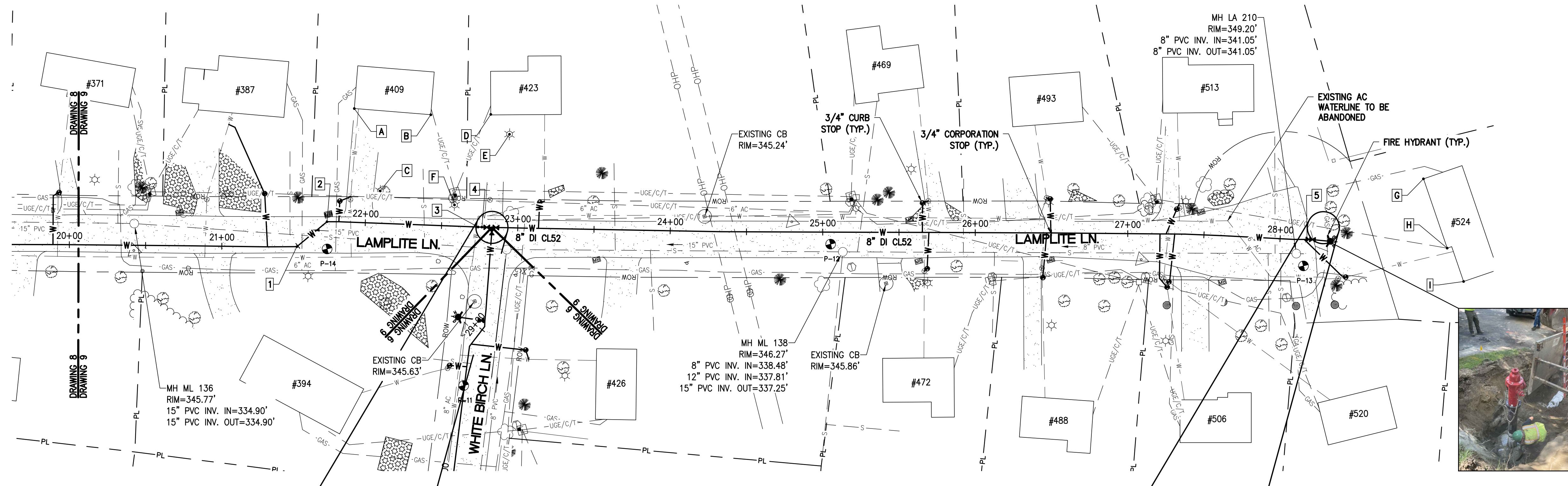


PROFILE SCALE: HORIZ. 1"=40' VERT. 1"=4'

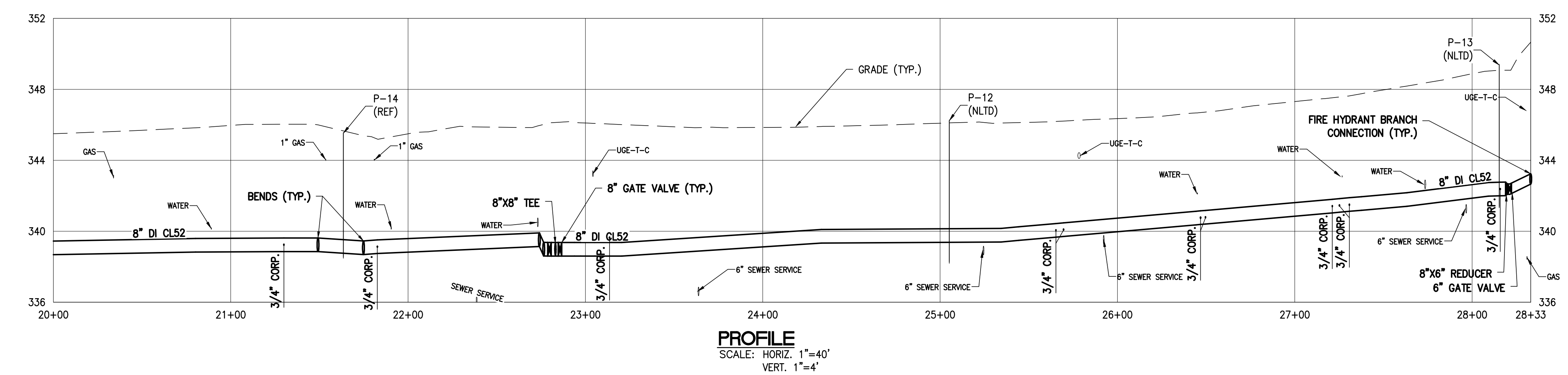
DESIGNED JEN	PROJECT NO. 19047
DRAWN JEN	DRAWING 8
CHECKED WAE	
DATE NOV. 2020	

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MEASURED DISTANCE										
	A	B	C	D	E	F	G	H	I	DESC.
1	99'	124'	65.5'	-	-	-	-	-	-	45° BEND
2	78'	99.5'	41.4'	-	-	-	-	-	-	45° BEND
3	-	-	-	74'	55.3'	21.2'	-	-	-	22.5° BEND
4	-	-	-	74'	54.5'	23.2'	-	-	-	22.5° BEND
5	-	-	-	-	-	-	11.8'	92'	105.8'	8"X6" REDUCER



RECORD DRAWING
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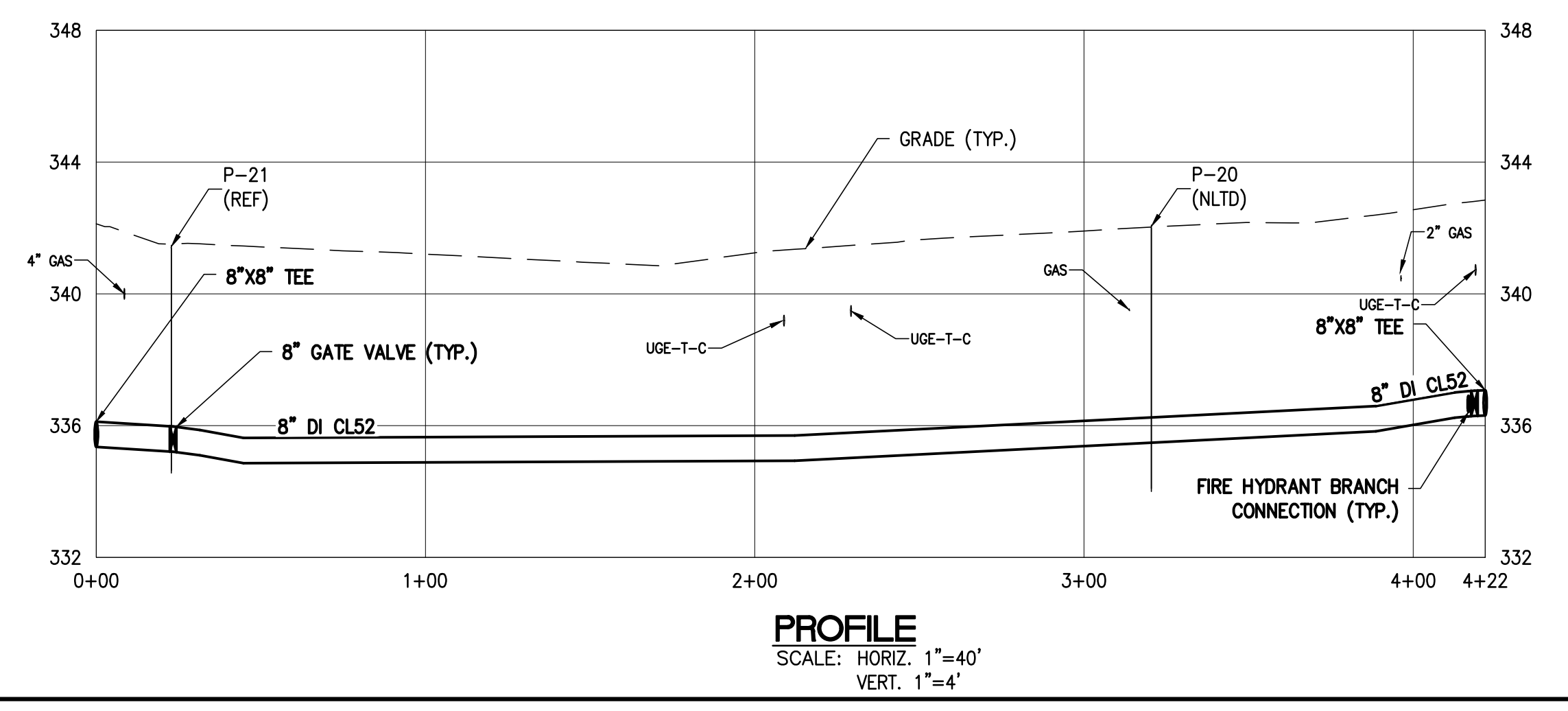
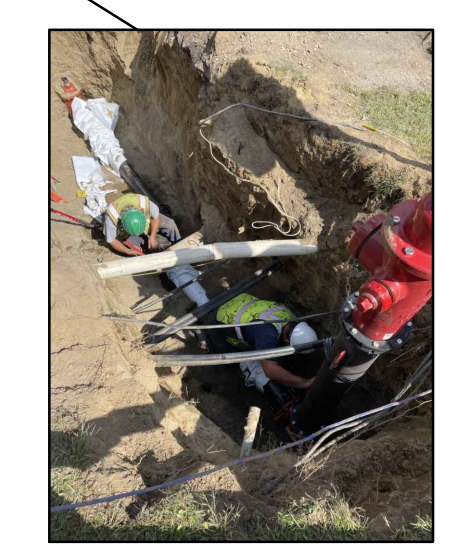
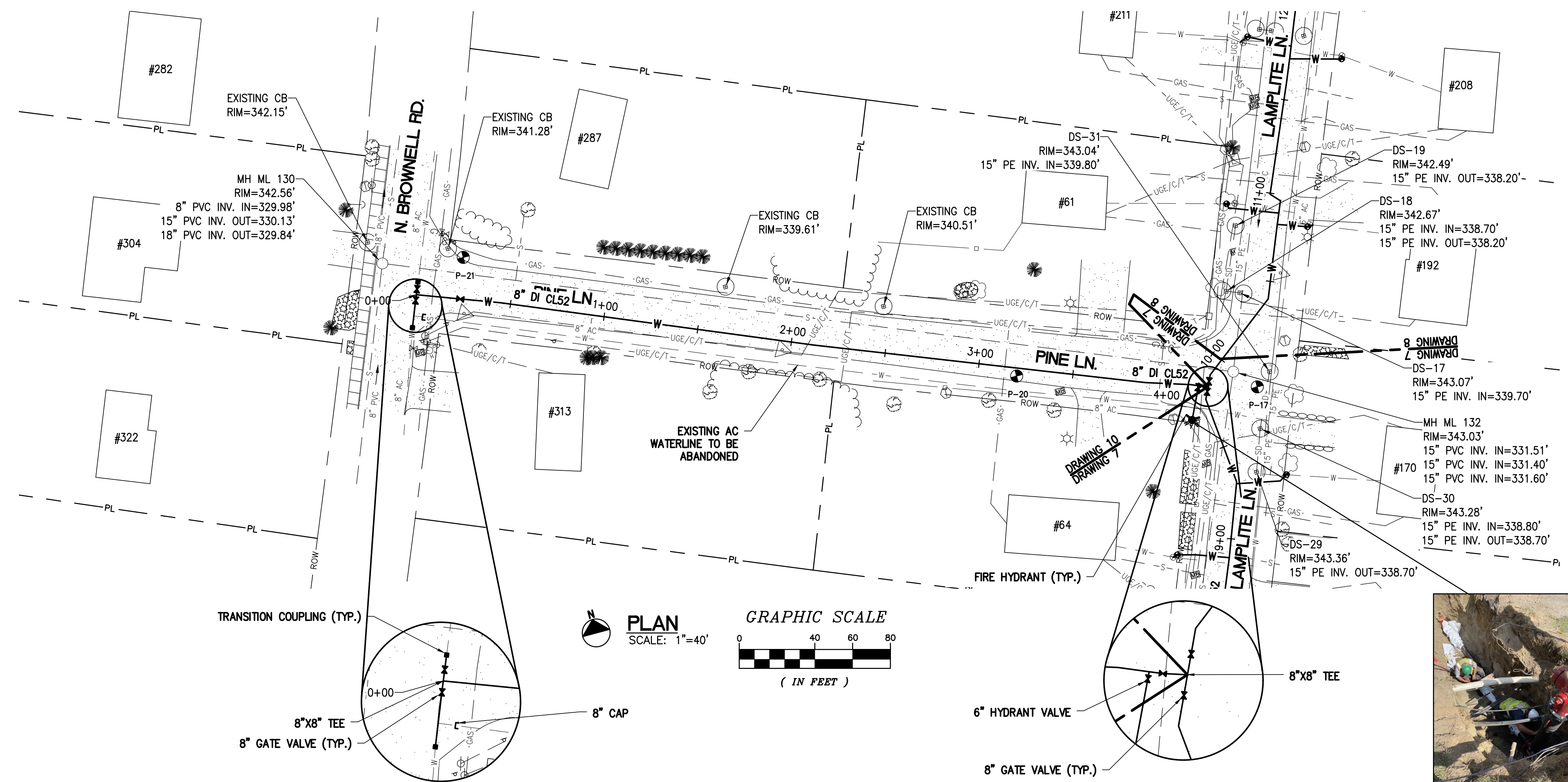
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JAB	RECORD DRAWINGS	1/18/22	1

TOWN OF WILLISTON, VERMONT

LAMPLITE ACRES WATERLINE CONTRACT No. 1

LAMPLITE LANE PLAN AND PROFILE STA. 20+00 TO 28+33

DESIGNED	JEN	PROJECT NO.	19047
DRAWN	JEN	DRAWING	9
CHECKED	WAE	DATE	NOV. 2020



RECORD DRAWING
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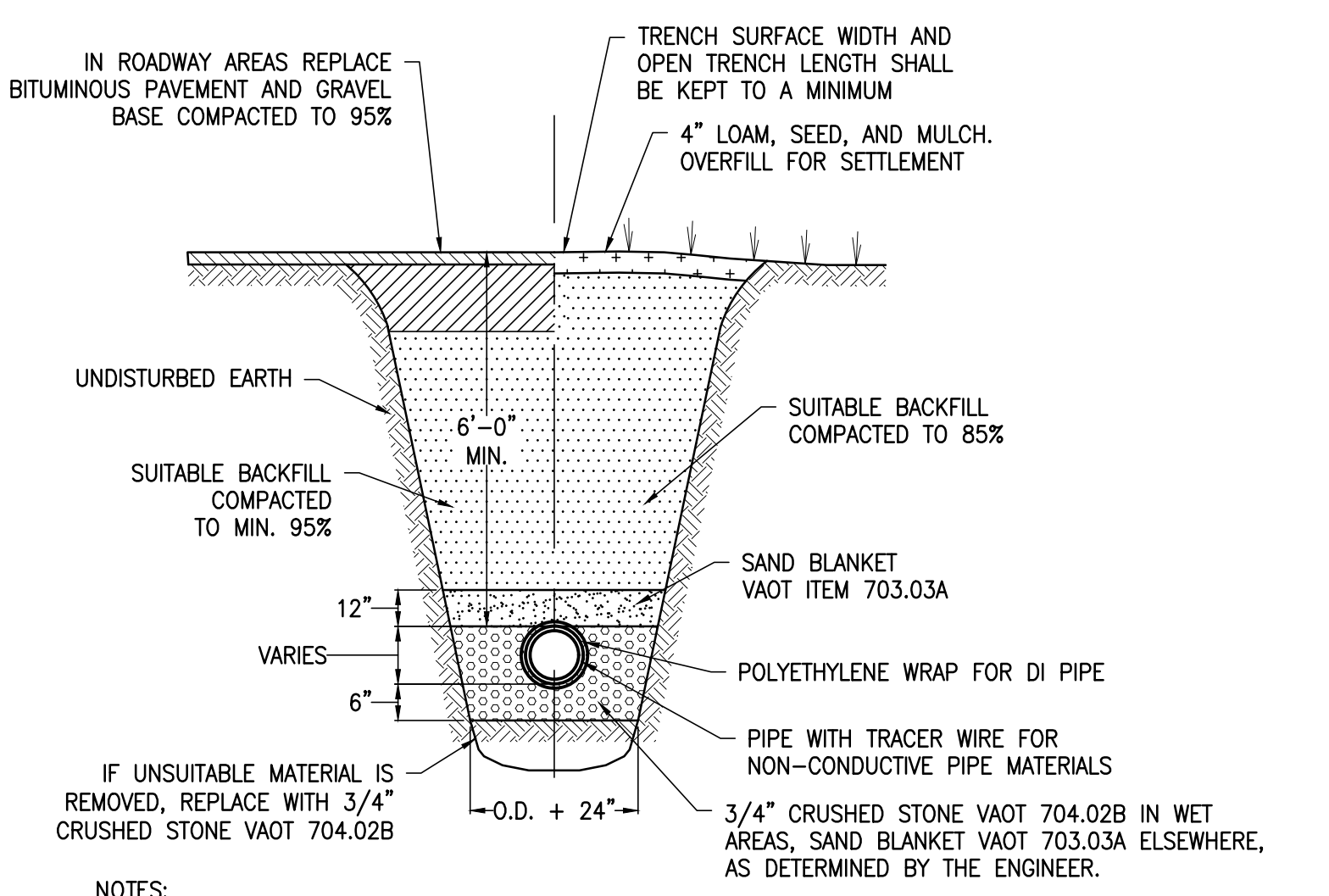
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TOWN OF WILLISTON, VERMONT

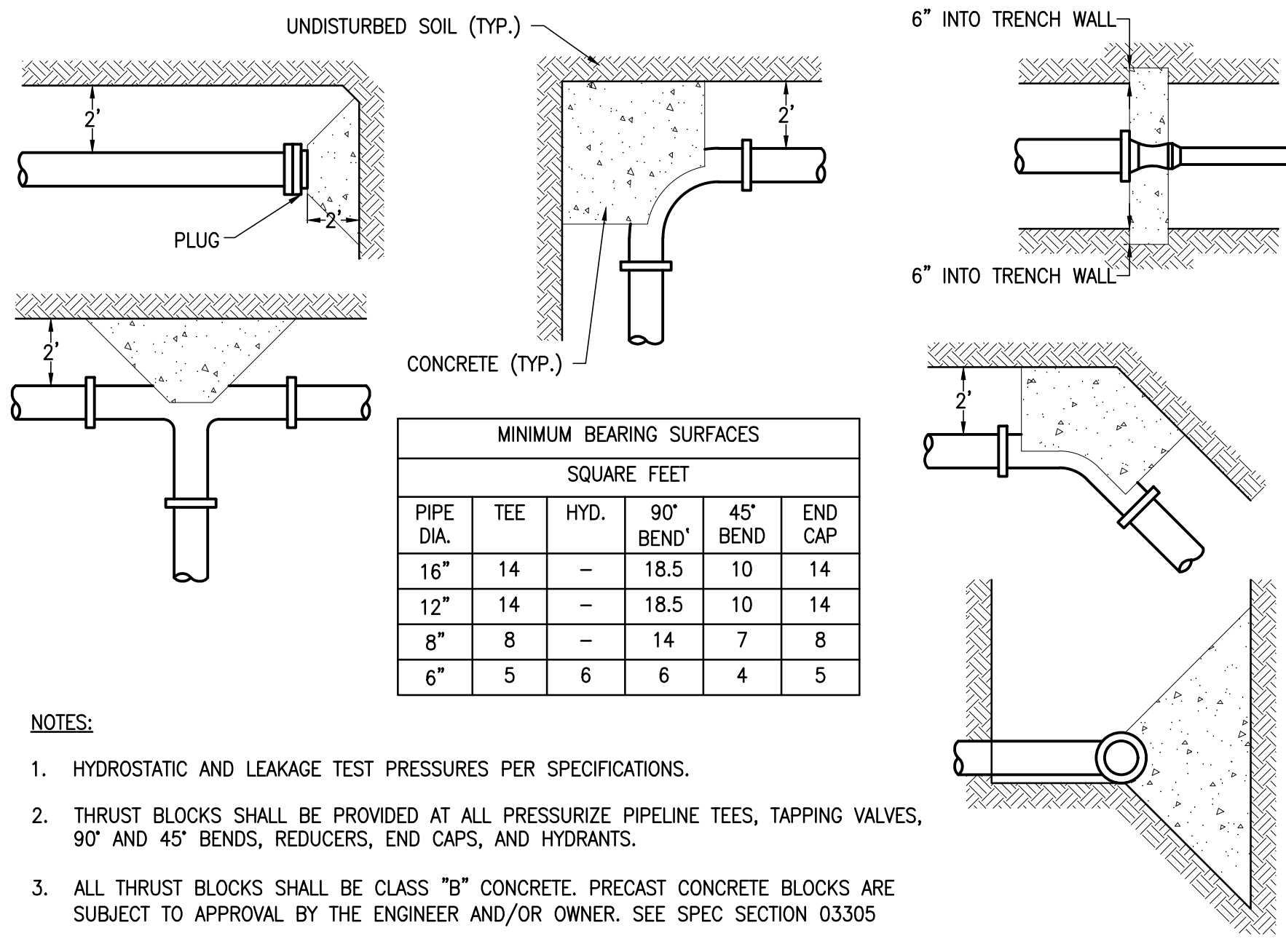
LAMPLITE ACRES WATERLINE CONTRACT No. 1

PINE LANE PLAN AND PROFILE STA. 0+00 TO 4+22

DESIGNED JEN	PROJECT NO. 19047
DRAWN JEN	DRAWING 10
CHECKED WAE	DATE NOV. 2020

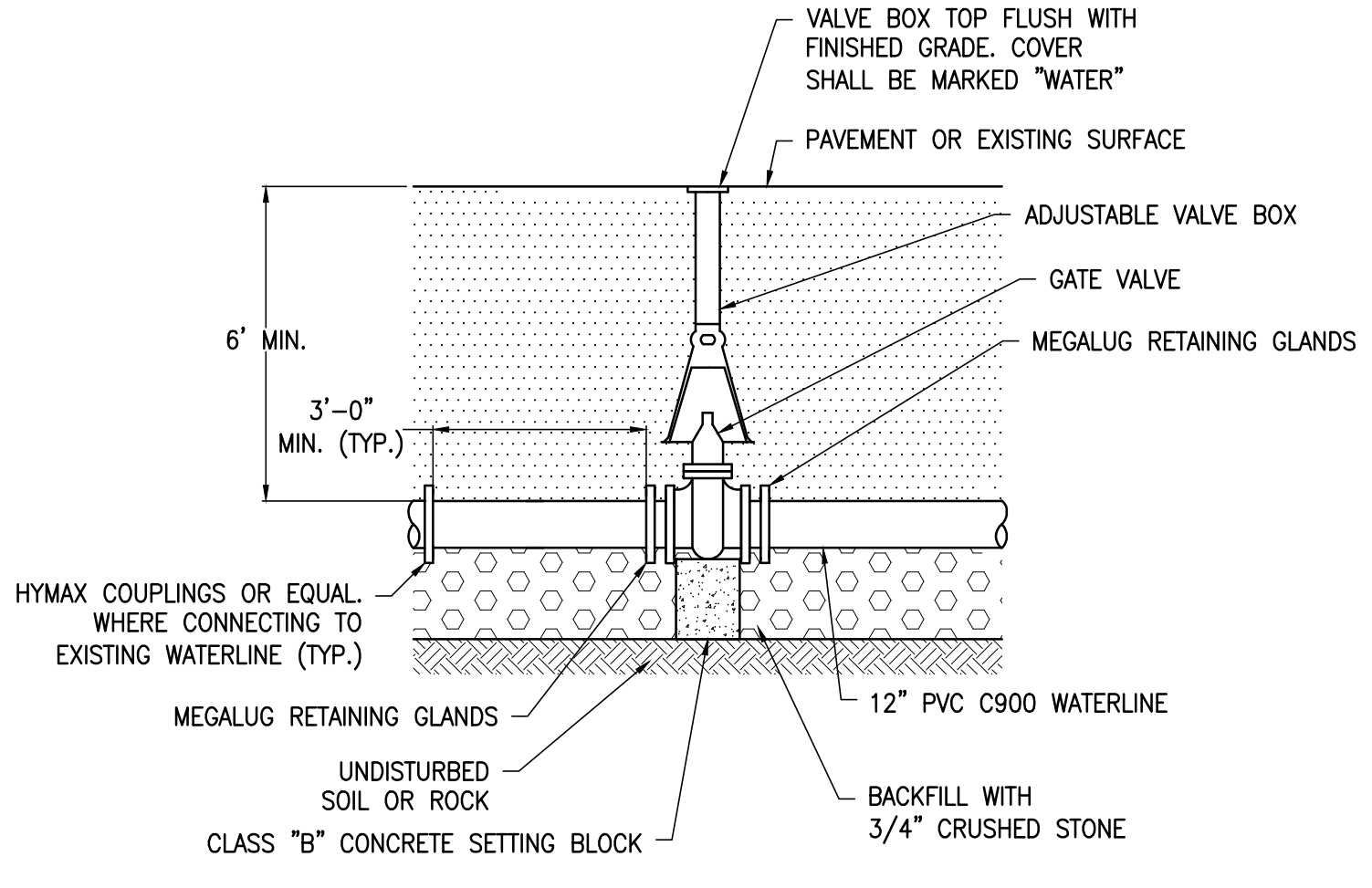


A
11
TYPICAL WATERLINE TRENCH DETAIL
 SCALE: NONE

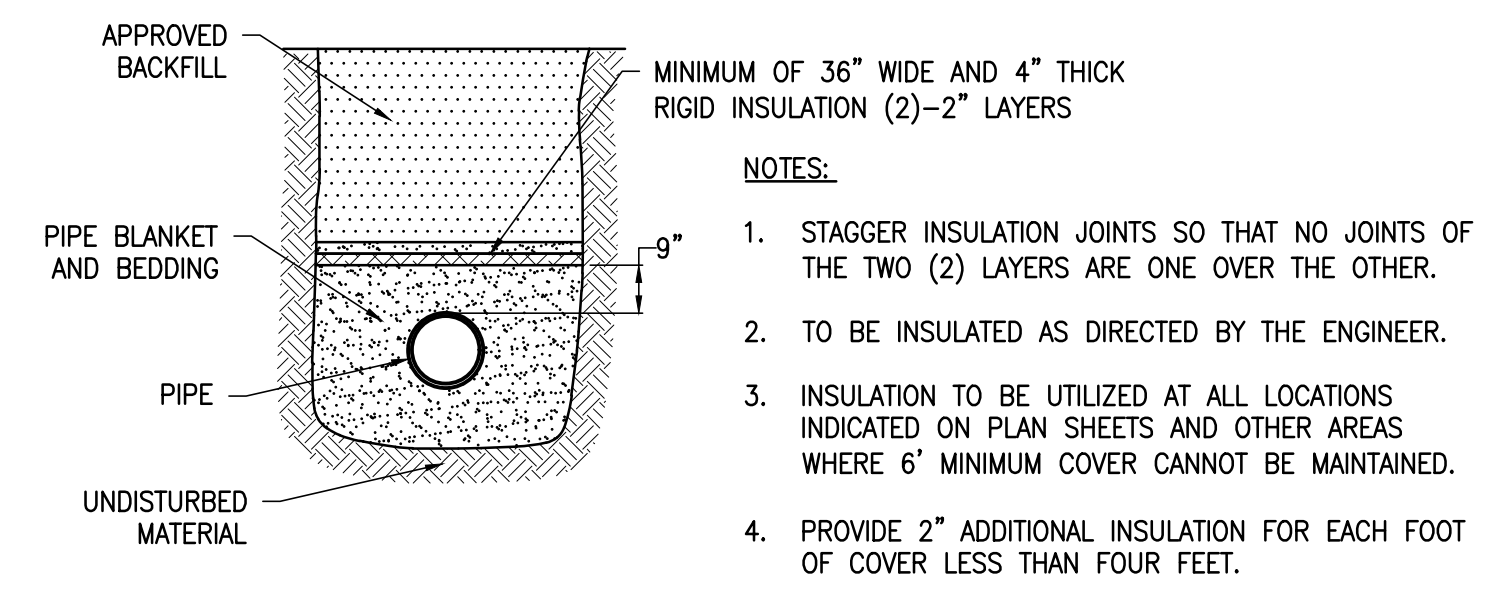


MINIMUM BEARING SURFACES					
SQUARE FEET					
PIPE DIA.	TEE	HYD.	90° BEND	45° BEND	END CAP
16"	14	-	18.5	10	14
12"	14	-	18.5	10	14
8"	8	-	14	7	8
6"	5	6	6	4	5

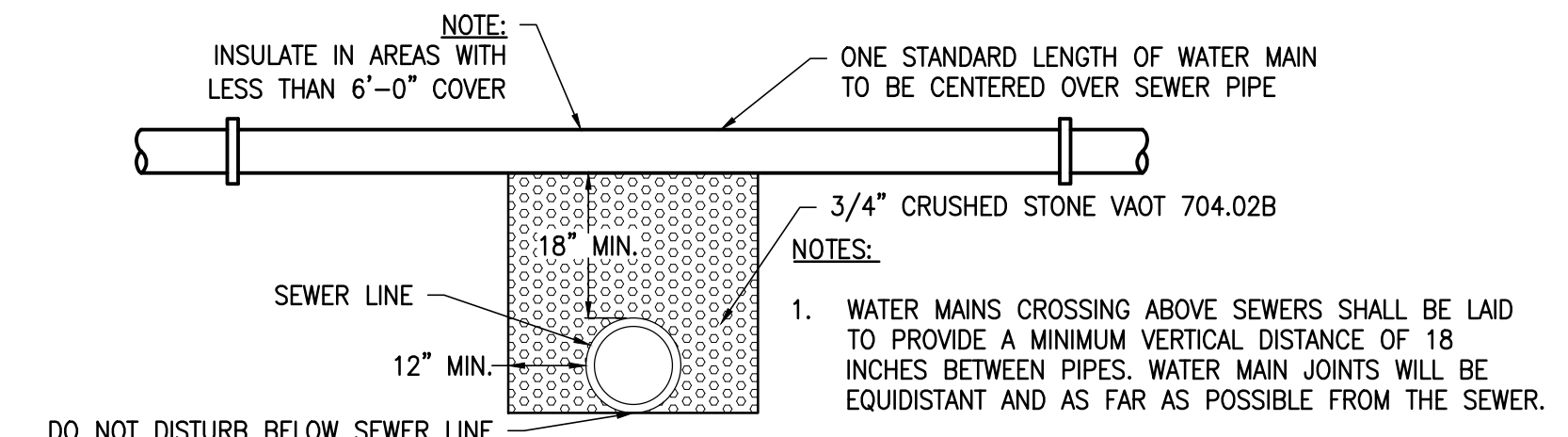
B
11
TYPICAL THRUST BLOCK DETAILS
 SCALE: NONE



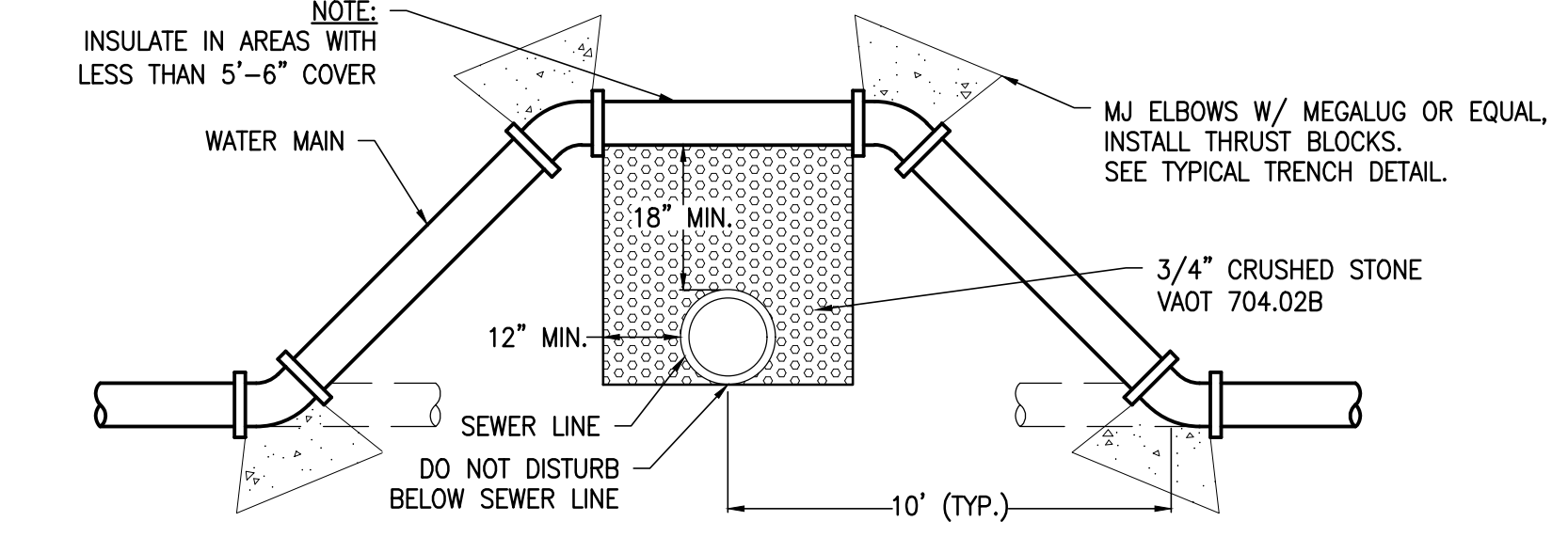
C
11
TYPICAL GATE VALVE INSTALLATION DETAIL
 SCALE: NONE



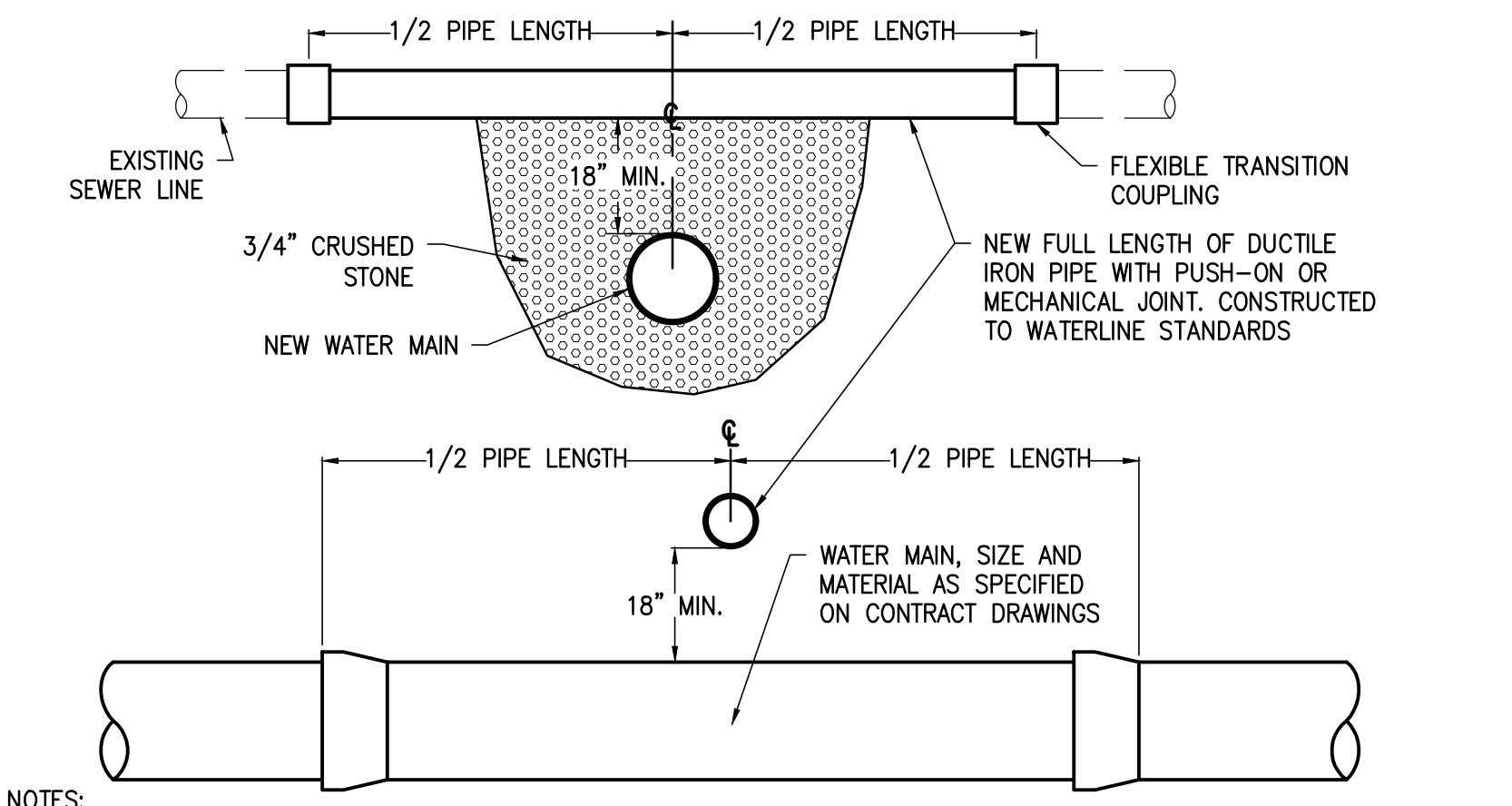
D
11
TYPICAL PIPE INSULATION DETAIL
 SCALE: NONE



E
11
TYPICAL WATER/SEWER SEPARATION DETAILS
 SCALE: NONE



F
11
RELOCATION OF WATERMAIN ABOVE SEWER
 SCALE: NONE



G
11
WATERMAIN BELOW SEWER
 SCALE: NONE

RECORD DRAWING
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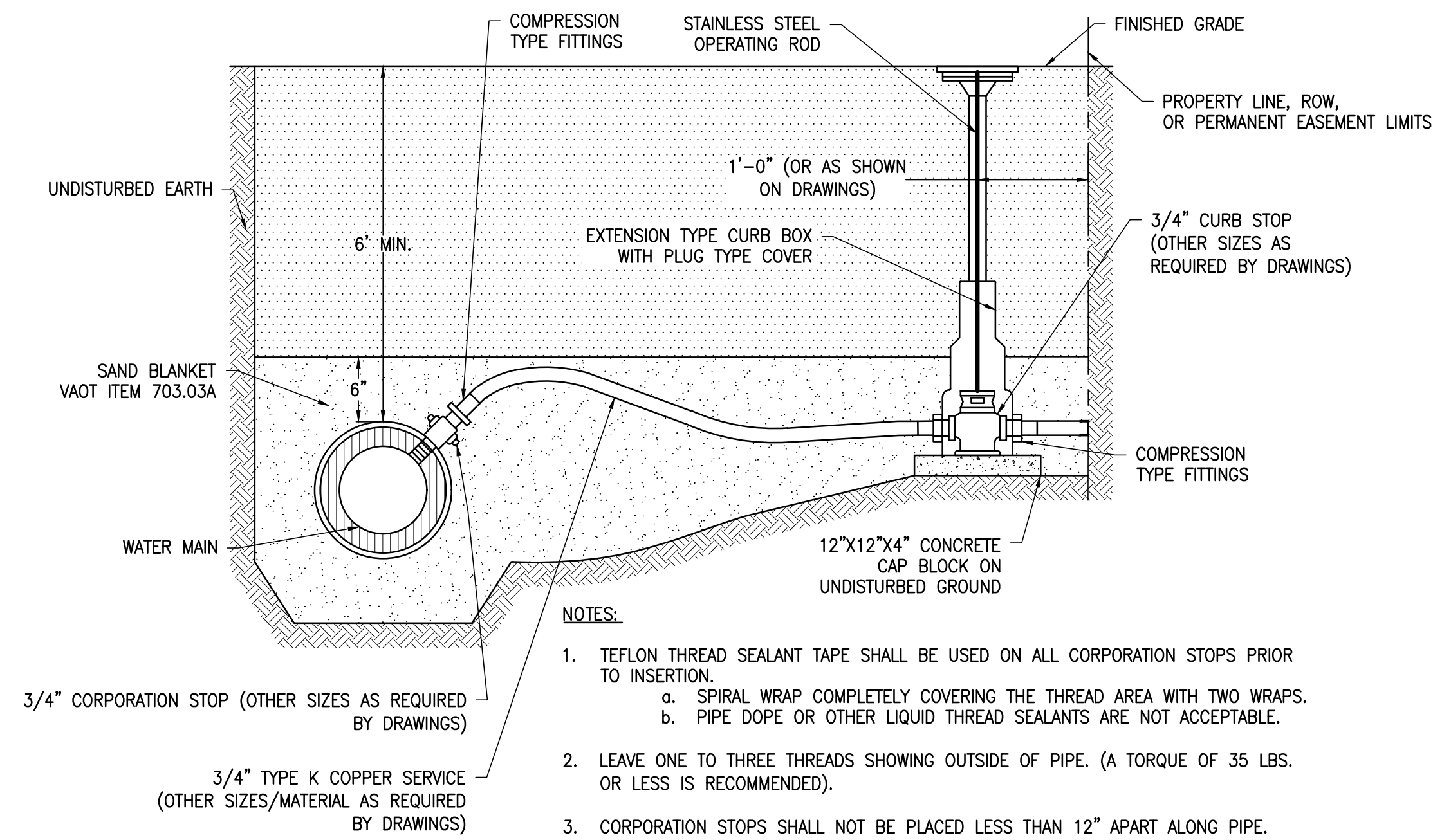
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DATE	
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TOWN OF
 WILLISTON,
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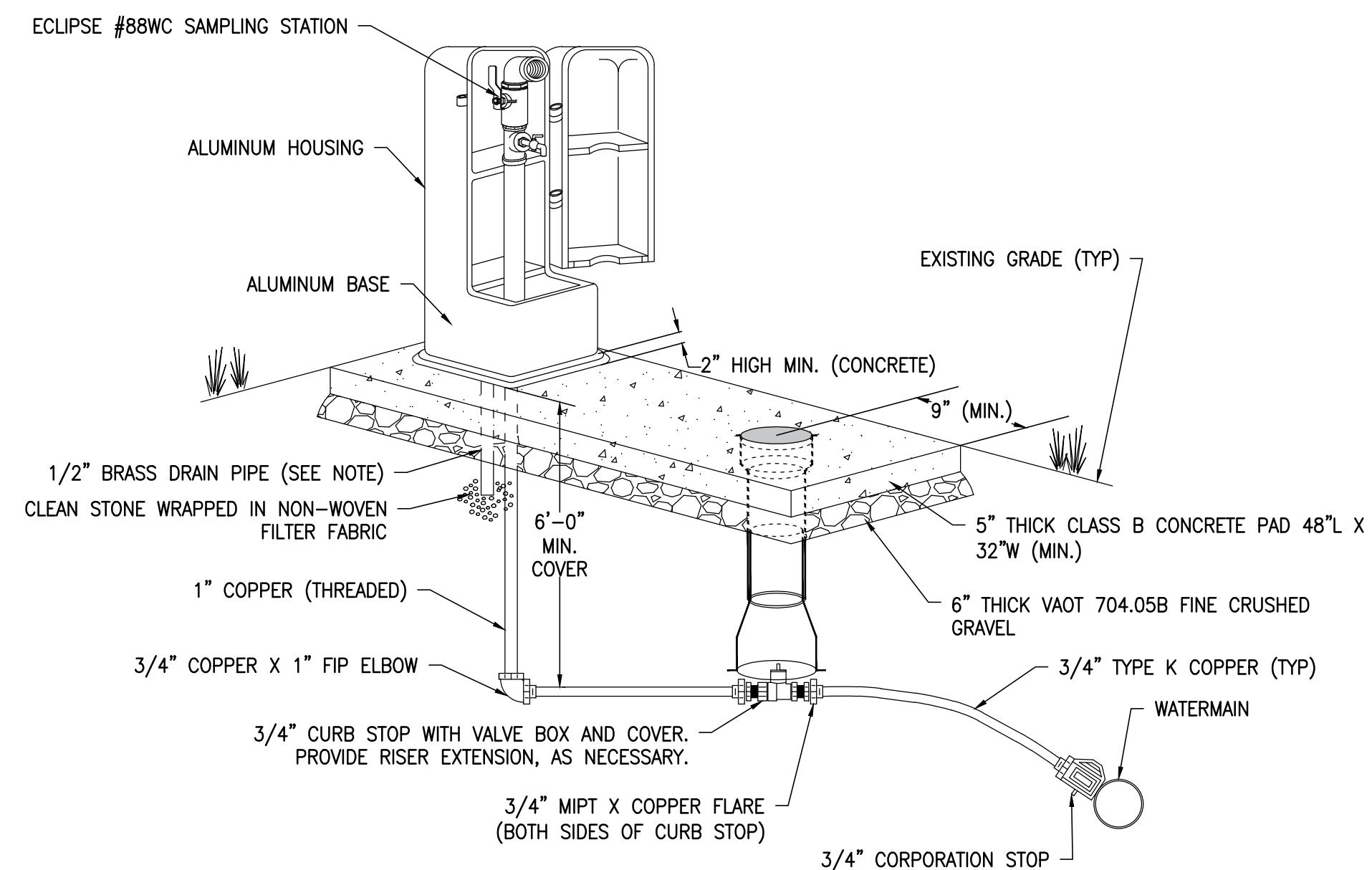
LAMPLITE ACRES
 WATERLINE
 CONTRACT No. 1

WATER DETAILS I

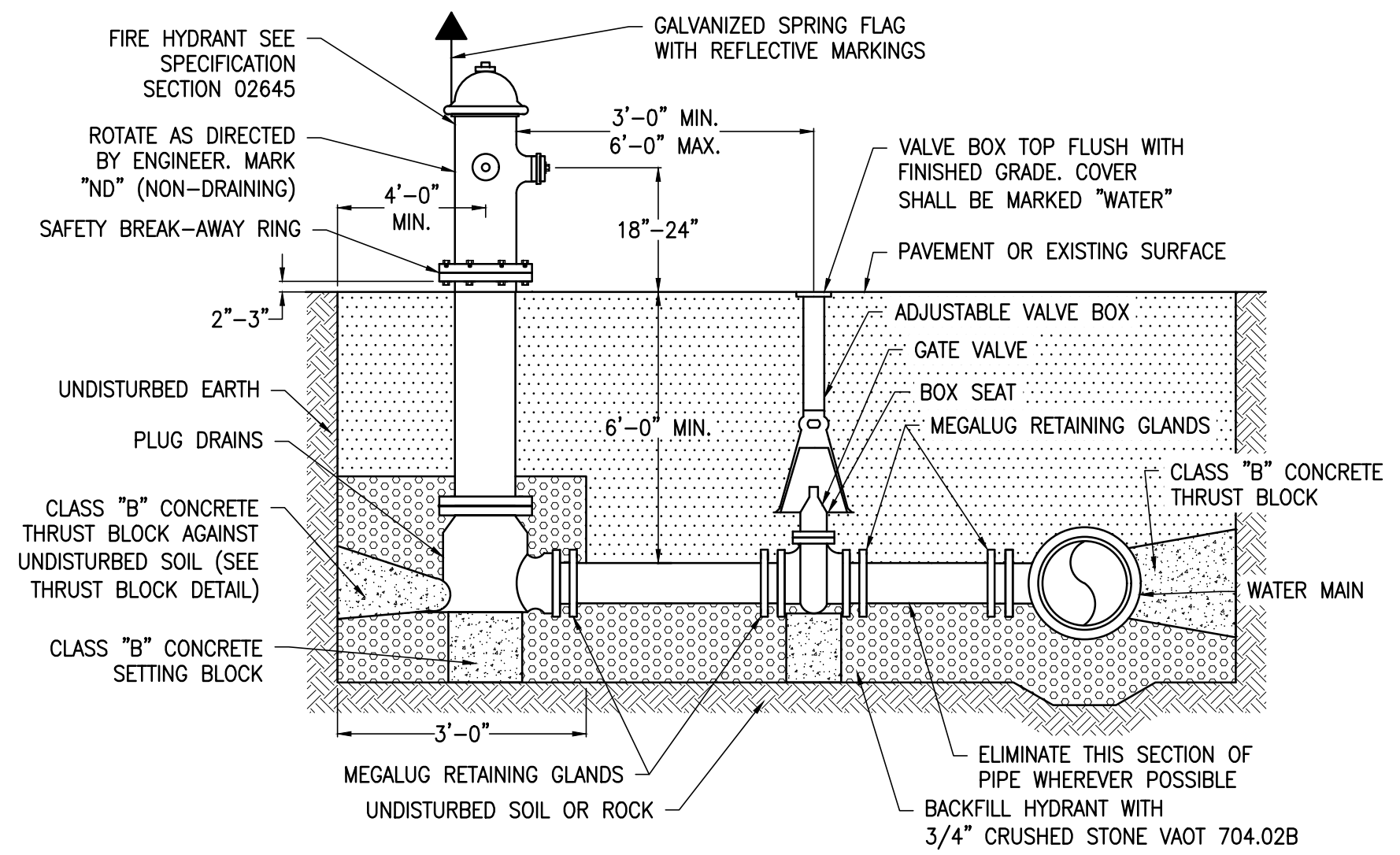
DESIGNED	PROJECT NO.
JEN	19047
DRAWN	DRAWING
JEN	11
CHECKED	
WAE	
DATE	
NOV. 2020	



A
12
TYPICAL WATER SERVICE CONNECTION DETAIL
SCALE: NONE



C
12
TYPICAL SAMPLING STATION DETAIL
SCALE: NONE



- NOTES:**
- BRANCH PIPING AND FITTINGS SHALL BE MECHANICAL JOINT WITH RETAINING GLANDS.
 - HYDRANTS WHICH ARE INSTALLED WHERE THE GROUND WATER TABLE IS ABOVE THE HYDRANT WASTE ORIFICES SHALL HAVE THE ORIFICES PLUGGED. HYDRANTS WITH PLUGGED ORIFICES SHALL BE LABELED "ND" FOR NON-DRAINING IN 3" HIGH ORANGE PAINTED LETTERS ON THE BONNET FACING THE ROAD. HYDRANT DRAIN SHALL BE LEFT PLUGGED AS DETERMINED BY THE ENGINEER.
 - GROUND AT HYDRANT SHALL BE AT STREET LEVEL. PROVIDE FILL AS NECESSARY TO RAISE HYDRANT UP TO STREET LEVEL. FILL SHALL EXTEND TO THE SHOULDER OF STREET AS NECESSARY TO ALLOW ACCESS FROM THE STREET TO THE HYDRANT ON THE SAME LEVEL AS THE STREET. WIDTH AT THE TOP OF FILL BETWEEN HYDRANT AND STREET SHALL BE A MINIMUM OF 8 FEET. COST FOR ANY FILL REQUIRED TO RAISE GROUND TO STREET LEVEL SHALL BE INCLUDED IN COST OF HYDRANT BID ITEM.
 - USE MECHANICAL JOINT OFFSETS AS NECESSARY TO ACHIEVE SPECIFIED BURY DEPTH OF HYDRANT. COST OF ANY OFFSET SHALL BE INCLUDED IN THE UNIT PRICE FOR HYDRANT INSTALLATION.
 - ALL HYDRANT BOLTS AND NUTS BELOW GRADE SHALL BE STAINLESS STEEL.
 - HYDRANT BRANCH CONNECTION PAY ITEM INCLUDES ALL PIPE, VALVE, FITTINGS, GLANDS, HYDRANT AND APPURTENANCES FROM TEE BRANCH TO HYDRANT.

B
12
TYPICAL FIRE HYDRANT DETAIL
SCALE: NONE

RECORD DRAWING
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CHECKED	JOB

DESCRIPTION	RECORD DRAWINGS

DATE	1/18/22

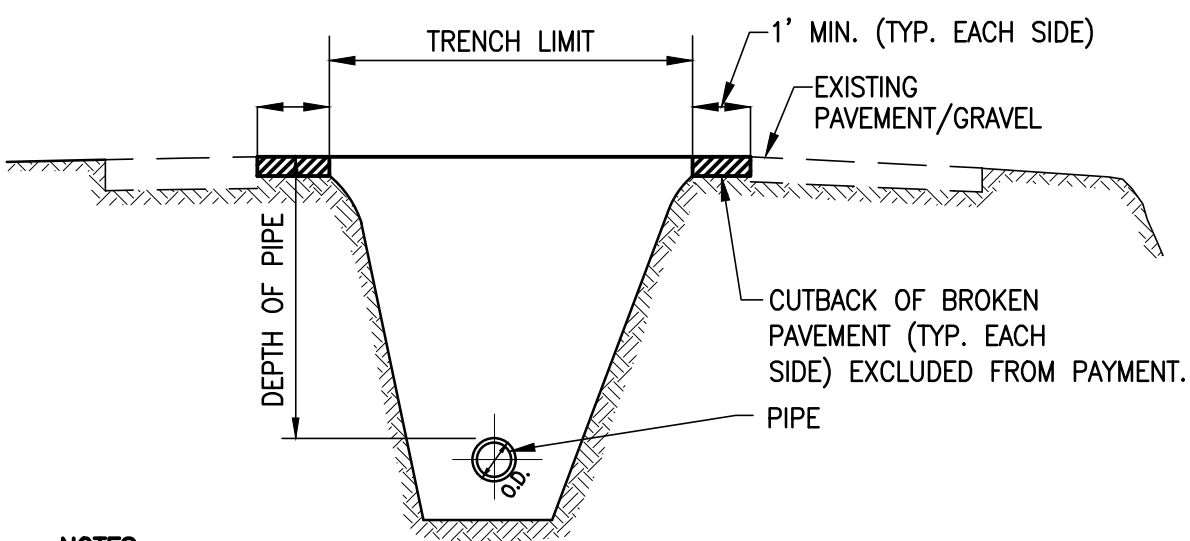
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TOWN OF
WILLISTON,
VERMONT

LAMPLITE ACRES
WATERLINE
CONTRACT No. 1

WATER DETAILS II

DESIGNED JEN	PROJECT NO. 19047
DRAWN JEN	DRAWING 12
CHECKED WAE	
DATE NOV. 2020	



NOTES:

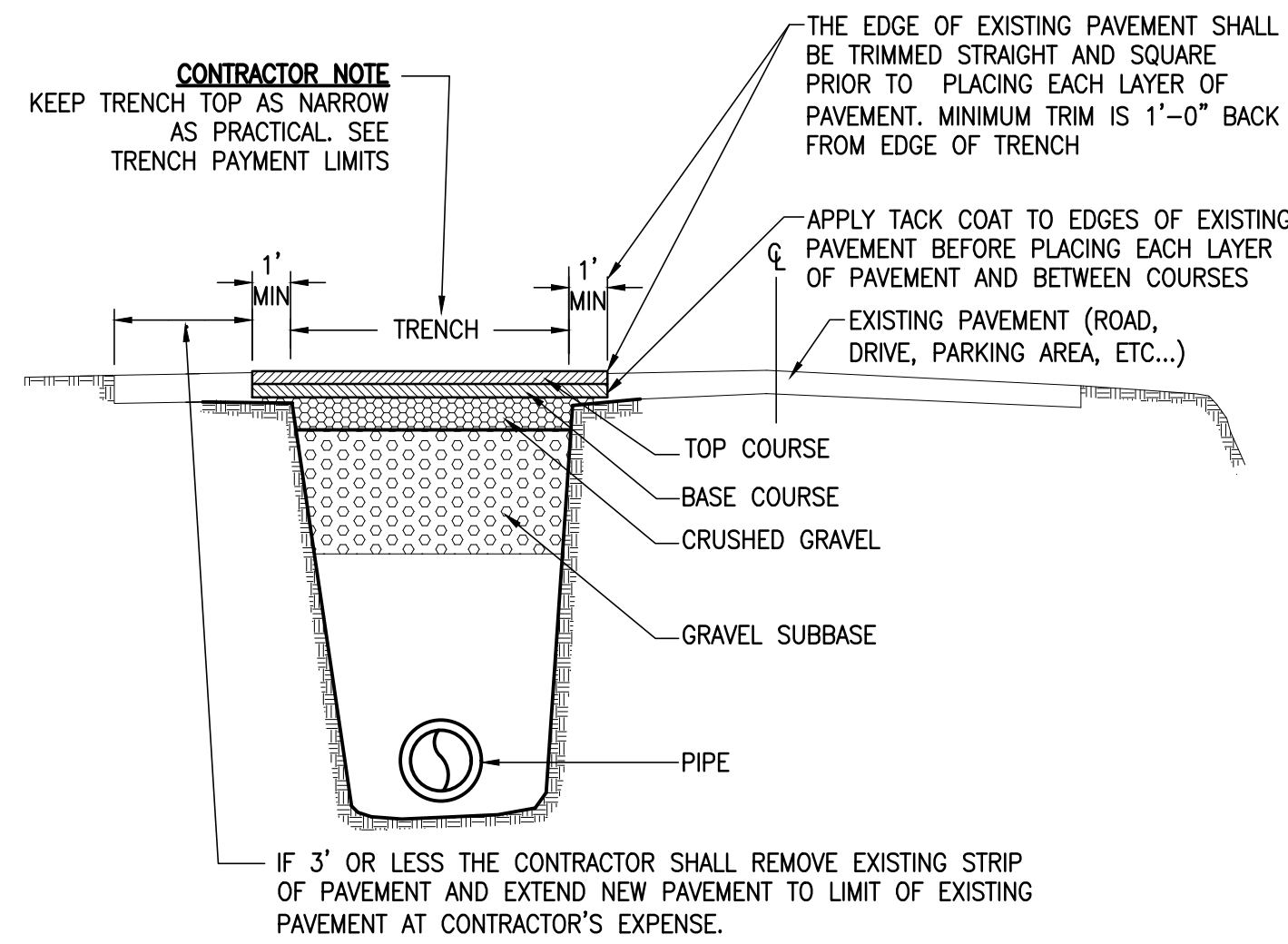
1. THE TRENCH REPAIR LIMIT SHALL BE AS FOLLOWS:

DEPTH OF PIPE	TRENCH LIMIT
0 TO 10 FEET	O.D. + 5'
GREATER THAN 10 FEET	O.D. + 7'

2. THE TRENCH PAYMENT LIMIT SHALL BE THE TRENCH LIMIT AS SHOWN ABOVE.

3. THE TRENCH PAYMENT LIMIT APPLIES TO ALL TRENCHES AND ALL SURFACES. SURFACE REPLACEMENT AND RESTORATION OUTSIDE OF THE TRENCH PAYMENT LIMITS WILL BE AT THE CONTRACTOR'S EXPENSE.

A TRENCH PAYMENT LIMITS
SCALE: NONE



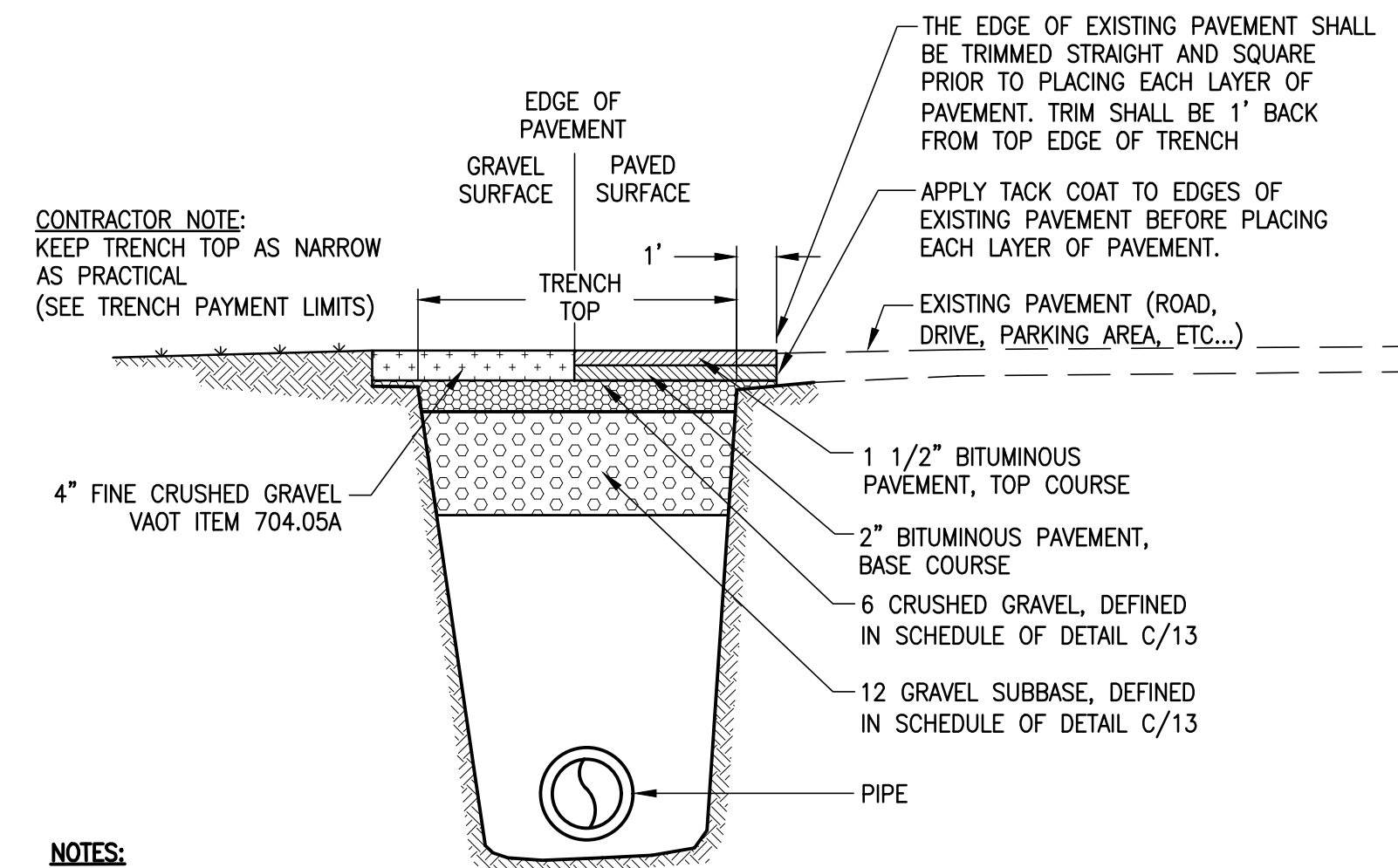
PAVEMENT REPAIR NOTES:

1. ALL PAVEMENT SHALL HAVE A MINIMUM COMPACTED THICKNESS AS SHOWN.
2. IF NECESSARY, SHOULDER SHALL BE REPLACED TO A CONDITION EQUAL OR BETTER THAN BEFORE CONSTRUCTION ACTIVITIES.
3. ALL EXISTING PAVEMENT MARKINGS SHALL BE RE-PAINTED AS NECESSARY. EXISTING DURABLE MARKINGS SHALL BE REPLACED IN-KIND.
4. IT IS INTENDED THAT CONTRACTOR AVOID ANY DAMAGE TO EXISTING ROADWAY OR SHOULDER PAVEMENT. HOWEVER WHERE PIPE MUST BE INSTALLED WITHIN 3'-0" OF PAVED SURFACE, BITUMINOUS PAVEMENT REPAIR SHALL BE PAID IN ACCORDANCE WITH "TRENCH PAYMENT LIMITS" AND UNIT PRICE BID. PAVEMENT REPAIR OUTSIDE APPROVED LIMITS SHALL BE AT CONTRACTOR'S EXPENSE.

SCHEDULE OF TRENCH REPAIR THICKNESSES

	STREETS (ALL OTHER)	DRIVEWAYS
BITUMINOUS PAVEMENT		
TOP COURSE	1-1/2" TYPE III	1" TYPE IV
BASE COURSE - TYPE II	2-1/2"	2"
CRUSHED GRAVEL, VAOT 704.05A	6"	4"
GRAVEL SUBBASE, VAOT 704.04	12"	8"

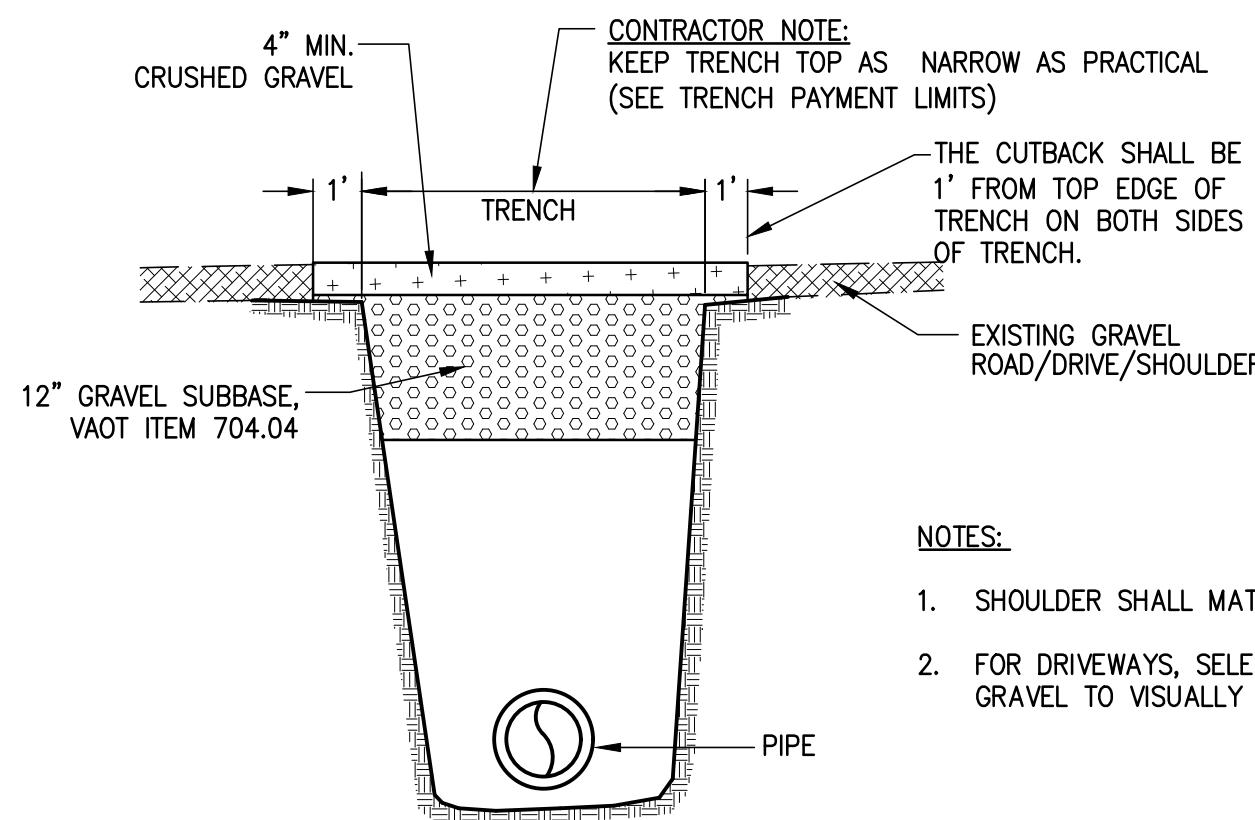
C TRENCH PAVEMENT REPAIR DETAIL
SCALE: NONE



NOTES:

1. IT IS INTENDED THAT THE CONTRACTOR AVOID ANY DAMAGE TO EXISTING ROADWAY OR SHOULDER PAVEMENT. HOWEVER WHERE PIPE MUST BE INSTALLED WITHIN PAVED SURFACE, BITUMINOUS PAVEMENT REPAIR SHALL BE PAID IN ACCORDANCE WITH "TRENCH PAYMENT LIMITS" AND UNIT PRICE BID. PAVEMENT REPAIR OUTSIDE APPROVED LIMITS SHALL BE AT CONTRACTOR'S EXPENSE.
2. ALL PAVEMENT AND GRAVEL SUBBASE SHALL HAVE A MINIMUM COMPACTED THICKNESS AS SHOWN IN "SCHEDULE OF TRENCH REPAIR THICKNESSES" SEE DETAIL C/13.
3. SEE SPECIFICATIONS FOR FURTHER INFORMATION.
4. ALL EXISTING PAVEMENT MARKINGS SHALL BE RE-PAINTED AS NECESSARY.
5. IF NECESSARY, SHOULDER SHALL BE REPLACED TO A CONDITION EQUAL TO OR BETTER THAN BEFORE CONSTRUCTION ACTIVITIES.

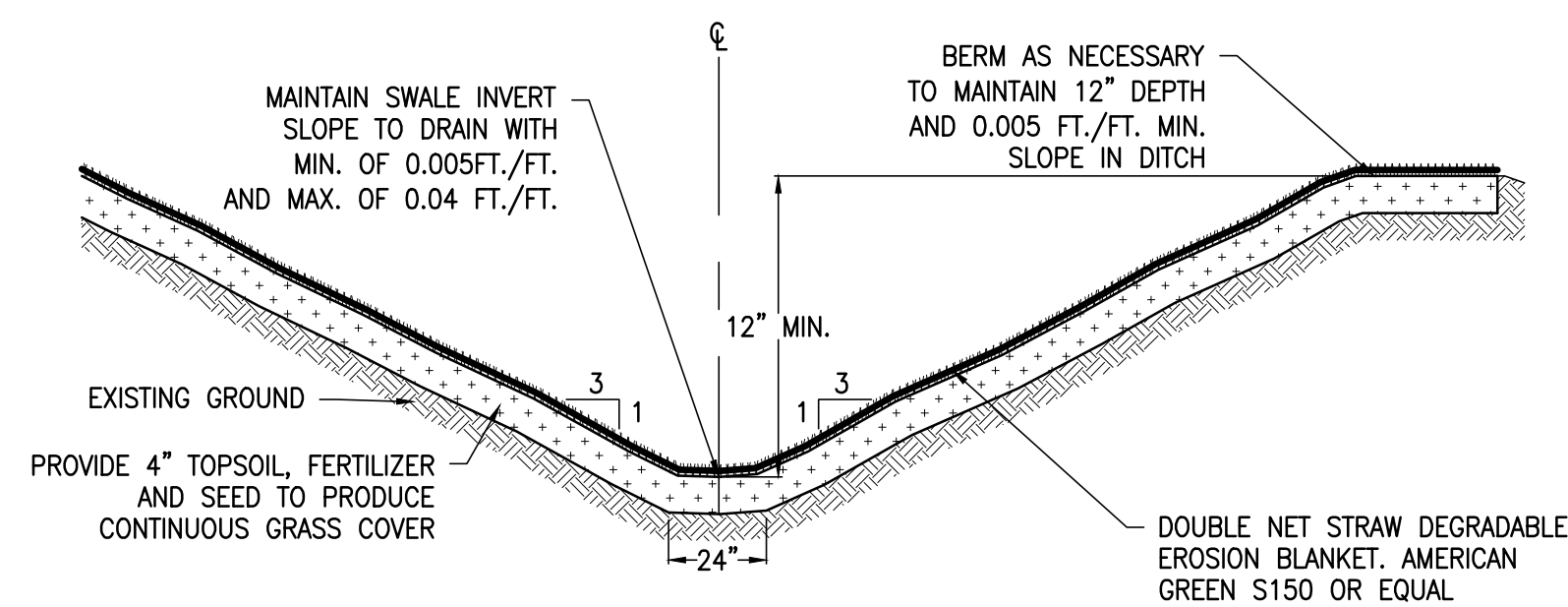
D EDGE OF PAVEMENT TRENCH REPAIR DETAIL
SCALE: NONE



NOTES:

1. SHOULDER SHALL MATCH EXISTING.
2. FOR DRIVEWAYS, SELECT CRUSHED GRAVEL TO VISUALLY MATCH EXISTING.

B TYPICAL GRAVEL ROAD, DRIVE, OR SHOULDER REPAIR
SCALE: NONE



NOTES:

1. INSTALL DEGRADABLE EROSION BLANKET PER MANUFACTURERS REQUIREMENTS. UTILIZE BIODEGRADABLE STAKES. WIRE STAPLES ARE NOT ACCEPTABLE.
2. CONTRACTOR SHALL USE EROSION BLANKET ON ALL DISTURBED GRASSED DRAINAGE SWALES.
3. INSPECT GRASSED DRAINAGE SWALES AT LEAST ONCE A WEEK AND WITHIN 24 HOURS AFTER EACH RAINFALL. MAINTENANCE SHALL BE PERFORMED AS NEEDED. INSPECTIONS SHALL CONTINUE UNTIL GRASS IS FULLY ESTABLISHED.
4. WHERE CULVERTS OR OTHER HIGH-VELOCITY DISCHARGE TERMINATES IN SWALES, PROVIDE STONE OUTLET PROTECTION.
5. PAYMENT FOR GRASS LINED SWALES WILL BE INCIDENTAL TO THE INSTALLATION OF THE WATERLINE.

E TYPICAL GRASSED DRAINAGE SWALE DETAIL
SCALE: NONE

RECORD DRAWING
THE RECORD DRAWING INFORMATION FOR THIS PROJECT IS AS PROVIDED BY THE CONTRACTOR AND IS COMPILED FOR RECORD PURPOSES. THERE IS NO GUARANTEE OF ACCURACY.

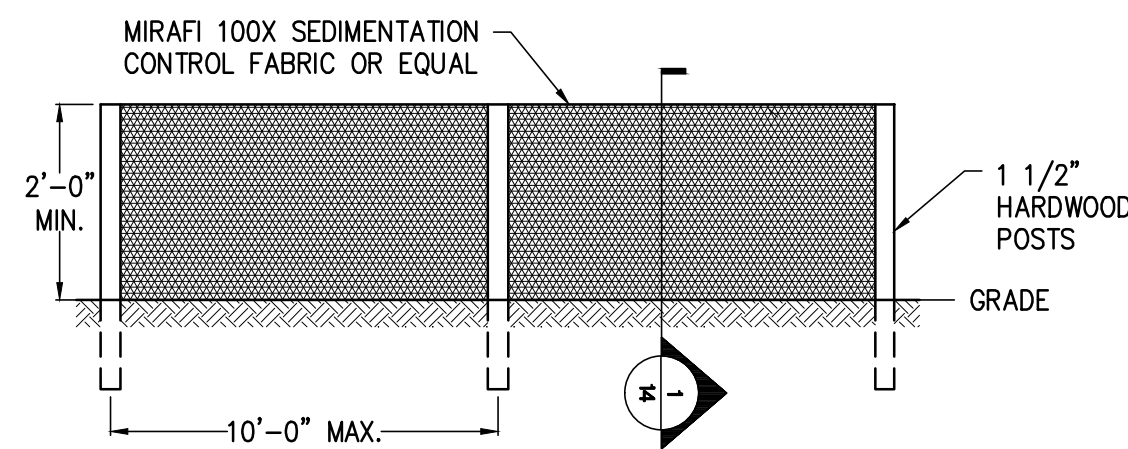
CHECKED	JOB	DESCRIPTION	RECORD DRAWINGS	DATE	NO.
				1/18/22	1

TOWN OF
WILLISTON,
VERMONT

LAMPLITE ACRES
WATERLINE
CONTRACT No. 1

ROADWAY DETAILS

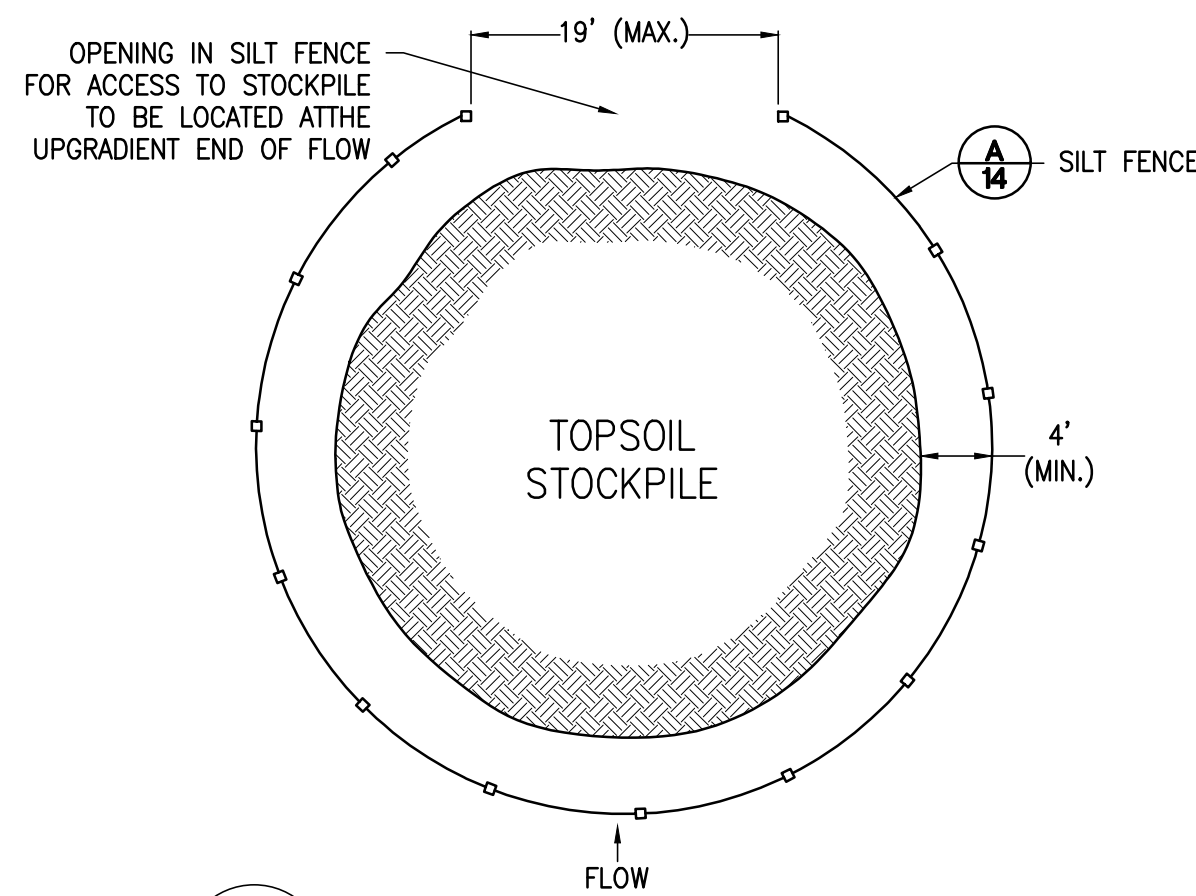
DESIGNED JEN	PROJECT NO. 19047
DRAWN JEN	DRAWING 13
CHECKED WAE	
DATE NOV. 2020	



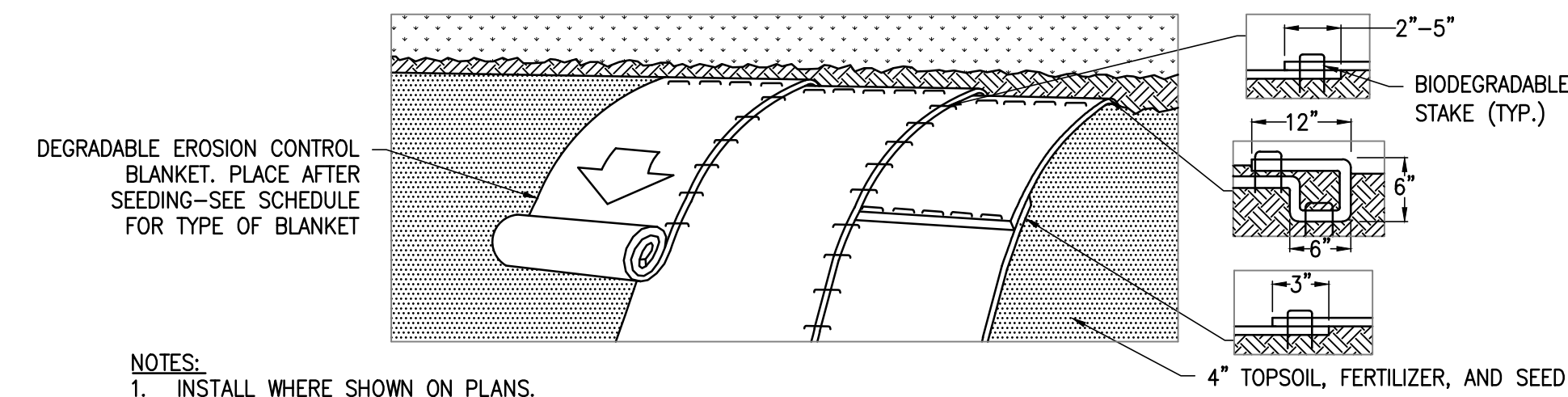
A
14
SECTION
SCALE: NONE

- NOTES:**
- SILT FENCE SHALL BE PRE-FABRICATED EROSION CONTROL FENCE BY MIRAFIX OR APPROVED EQUAL.
 - INSTALL WHERE SHOWN ON PLANS. THE ENDS OF SILT FENCE SHOULD BE CURBED UPHILL TO PREVENT FLOW AROUND THE ENDS. SILT FENCE SHALL BE INSTALLED AS CLOSE TO PARALLEL WITH CONTOURS AS POSSIBLE. WHERE SILT FENCE IS SHOWN GREATER THAN A 30° ANGLE FROM CONTOURS, INSTALL J-HOOKS AS SHOWN BELOW.
 - SECTIONS OF THE SILT FENCE SHALL BE JOINED TO OVERLAP BY FOLDING FABRIC AROUND EACH POST ONE FULL TURN. DRIVE POSTS TIGHTLY TOGETHER AND SECURE TOPS OF POSTS BY TYING OFF WITH CORD OR WIRE TO PREVENT FLOW-THROUGH OR BUILT-UP SEDIMENT AT JOINT.
 - INSPECT ALL SILT FENCE AT LEAST ONCE A WEEK AND WITHIN 24 HOURS AFTER EACH RAINFALL. MAINTENANCE SHALL BE PERFORMED AS NEEDED, AND SEDIMENT REMOVED WHEN SEDIMENT REACHES 1/3 HEIGHT OF THE SILT FENCE.
 - UPON FINAL STABILIZATION OF THE AREA UPHILL OF THE FABRIC, THE FABRIC SHALL BE REMOVED WITH THE APPROVAL OF THE ENGINEER.

A
14
TYPICAL TEMPORARY SILT FENCE DETAIL
SCALE: NONE



B
14
TYPICAL TOPSOIL STOCKPILE DETAIL
SCALE: NONE



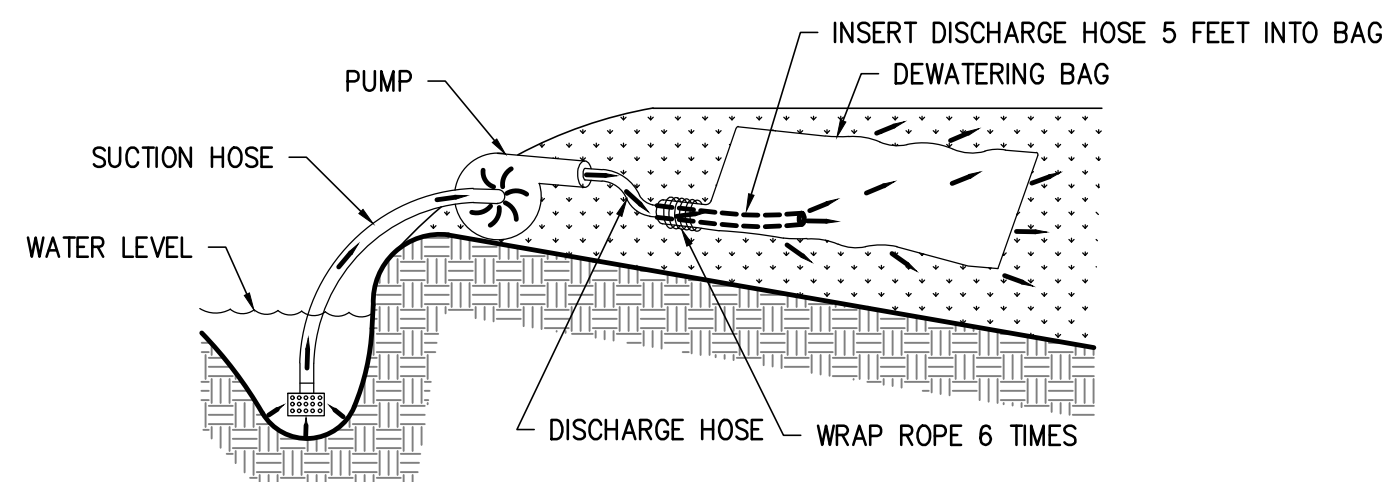
- NOTES:**
- INSTALL WHERE SHOWN ON PLANS.
 - CONTRACTOR SHALL USE BIODEGRADABLE STAKES FOR FASTENERS. WIRE STAPLES ARE NOT ACCEPTABLE.
 - PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
 - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF BIODEGRADABLE STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAKING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF BIODEGRADABLE STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
 - BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING BIODEGRADABLE STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAKE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, BIODEGRADABLE STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 - THE EDGES OF PARALLEL BLANKETS MUST BE STAKED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
 - CONSECUTIVE BLANKETS SPliced DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAKE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
 - IN LOOSE SOIL CONDITIONS, THE USE OF STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

DEGRADABLE EROSION CONTROL BLANKET SCHEDULE			
TYPE	SLOPE (X)	BLANKET DESCRIPTION	MODEL No.
A	3:1-2:1	SINGLE NET STRAW BLANKET	NORTH AMERICAN GREEN S75 OR EQUAL
B	2:1-1:1	DOUBLE NET STRAW BLANKET	NORTH AMERICAN GREEN S150 OR EQUAL

C
14
TYPICAL DEGRADABLE EROSION CONTROL BLANKET DETAIL
SCALE: NONE

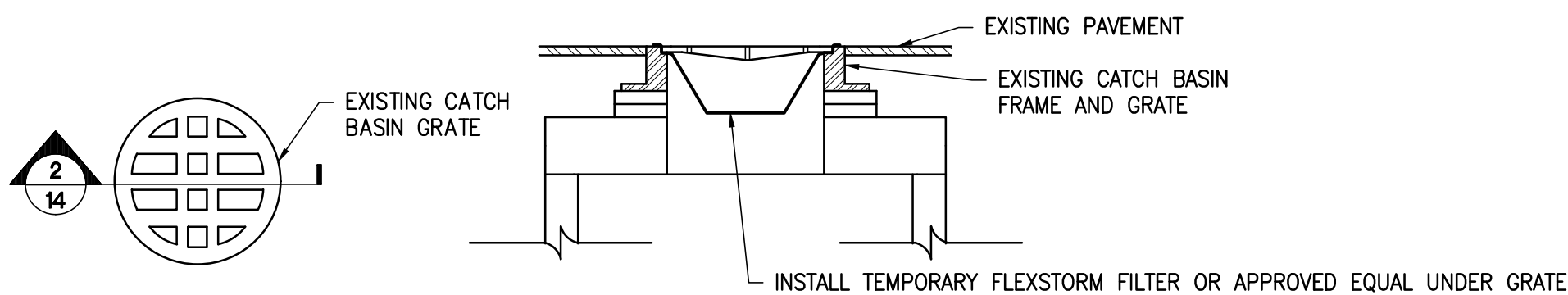
EROSION CONTROL NOTES:

- EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED PRIOR TO PERFORMING ANY EARTHWORK DOWNSTREAM OF THE DISTURBED AREA AND AS DIRECTED BY THE ENGINEER. THE MEASURES SHALL BE MAINTAINED UNTIL THE UPSTREAM DISTURBED AREA HAS BEEN PERMANENTLY STABILIZED AND AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL INSTALL ALL TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL MEASURES DETERMINED NECESSARY IN THE FIELD.
- SILT FENCE SHALL BE INSTALLED, AS SHOWN ON THE CONTRACT DRAWINGS PRIOR TO ANY EARTHWORK DOWNSTREAM OF THE DISTURBED AREA AND AS DIRECTED BY THE ENGINEER. THE SILT FENCE SHALL BE MAINTAINED AND CLEANED UNTIL THE UPSTREAM DISTURBED AREA HAS BEEN PERMANENTLY STABILIZED AND AS DIRECTED BY THE ENGINEER. WHERE POSSIBLE NATURAL DRAINAGE WAYS SHALL BE UTILIZED AND LEFT OPEN TO REMOVE EXCESS SURFACE WATER.
- DEGRADABLE EROSION CONTROL BLANKETS SHALL BE INSTALLED ON DISTURBED VEGETATED SLOPES THAT HAVE SLOPES GREATER THAN 3:1. THE CONTRACTOR SHALL INSTALL THE DEGRADABLE EROSION CONTROL BLANKETS PER MANUFACTURER'S RECOMMENDATIONS.
- PROPER EROSION CONTROLS SHALL BE PROVIDED AROUND STOCKPILED EXCAVATED MATERIALS. THESE CONTROLS MAY INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING METHODS OF EROSION PREVENTION AND SEDIMENT CONTROL: PERIMETER SILT FENCE, INTERCEPTOR DRAINAGE DITCHES; VELOCITY REDUCTION DAMS IN DRAINAGE DITCHES; TEMPORARY BANK PROTECTION SUCH AS RIPRAP, MATTING, OR ARTIFICIAL COVERING; STONE CHECK DAM CONTROL SYSTEMS; SPECIAL STOCKPILING METHODS; AND WATER BARS.
- THE CONTRACTOR SHALL PROVIDE A MECHANICAL SWEEPER AND SHALL SWEEP CLEAN THE ROADS IN THE CONSTRUCTION AREAS AS REQUIRED TO REMOVE ACCUMULATED SEDIMENT AND PREVENT SEDIMENT RUNOFF INTO RECEIVING WATERS AND AS DIRECTED BY THE ENGINEER.
- TEMPORARY EROSION CONTROL MEASURES SHALL BE UTILIZED BY THE CONTRACTOR AS REQUIRED TO PREVENT ANY SEDIMENTATION FROM RUNNING INTO RECEIVING WATERS. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE ANY IMPACT OF THE ON-SITE SURFACE RUNOFF ON THE QUALITY OF THE RECEIVING WATERS.
- THE SMALLEST PRACTICAL AREA OF LAND SHALL BE DISTURBED AT ANY ONE TIME DURING CONSTRUCTION. WHEN LAND IS DISTURBED DURING CONSTRUCTION, THE DISTURBANCE SHALL BE KEPT TO THE SHORTEST PRACTICAL DURATION AS APPROVED BY THE ENGINEER. LAND SHALL NOT BE LEFT DISTURBED DURING THE WINTER MONTHS AND OVERWINTER STABILIZATION MEASURES SHALL BE INSTALLED PRIOR TO OCTOBER 15TH.
- ALL DISTURBED AREAS AND SIDE SLOPES WHICH ARE FINISH GRADED WITH NO FURTHER CONSTRUCTION TO TAKE PLACE SHALL BE LOAMED, LIMED, FERTILIZED, SEED, AND MULCHED WITHIN 48 HOURS OF FINAL GRADING. A MINIMUM OF 4 INCHES OF LOAM SHALL BE PLACED. SEED, LIME, FERTILIZER, AND MULCH SHALL CONFORM TO SPECIFICATION SECTION 02930.
- NO DISTURBED AREAS SHALL BE LEFT UNSEED, UNMULCHED FOR MORE THAN SEVEN (7) DAYS. DISTURBED AREAS WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE MULCHED AND SEED WITH RYE GRASS TO PREVENT EROSION. STRAW MULCH SHALL BE APPLIED TO ALL FRESHLY SEED, SEED, AND MULCHED AREAS AT THE RATE OF 2 TONS PER ACRE. BALES SHALL BE UNSPOILED, AIR DRIED, AND FREE FROM WEED SEEDS, AND ANY COARSE MATERIAL. CONTRACTOR MAY ALSO USE EROSION MATTING OR OTHER APPROVED METHODS OF TEMPORARY COVER.
- ALL EROSION PREVENTION AND SEDIMENT CONTROL STRUCTURES AND MEASURES SHALL BE INSPECTED BY OR UNDER THE DIRECTION OF THE ON-SITE COORDINATOR AT LEAST EVERY SEVEN (7) CALENDAR DAYS AND AS SOON AS POSSIBLE BUT NO LATER THAN 24 HOURS AFTER ANY STORM EVENT WHICH GENERATES A DISCHARGE OF STORMWATER RUNOFF FROM THE CONSTRUCTION SITE.
- AFTER ALL UPSTREAM DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED AND AS DIRECTED BY THE ENGINEER, THE DOWNSTREAM TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED AND THE ACCUMULATED SEDIMENT PROPERLY DISPOSED OF. THE AREA DISTURBED BY THE REMOVAL OF TEMPORARY MEASURES SHALL BE PREPARED, SEED, AND MULCHED.



- NOTES:**
- PLACE DEWATERING BAG/TUBE ON THE GROUND OR ON A TRAILER OVER A RELATIVELY LEVEL, STABILIZED AREA.
 - INSERT DISCHARGE PIPE A MINIMUM OF 5 FT. INSIDE DEWATERING BAG/TUBE AND SECURE WITH A ROPE WRAPPED 6 TIMES AROUND THE SNOUT OVER A 6 INCH WIDTH OF THE BAG. TO CLOSE OPEN END OF THE DEWATERING TUBE : OVERLAP THE TUBE 2 FT. FROM THE END. GATHER THE CENTER OF THE DOUBLED-UP PORTION FORMING A BOW TIE. SECURE WITH A ROPE WRAPPED MULTIPLE TIMES.
 - REPLACE DEWATERING BAG WHEN HALF FULL OF SEDIMENT OR WHEN THE SEDIMENT HAS REDUCED THE FLOW RATE OF THE PUMP DISCHARGE TO AN IMPRACTICAL AMOUNT, OR; EMPTY SEDIMENT TUBE WHEN HALF FULL OF SEDIMENT OR WHEN THE SEDIMENT HAS REDUCED THE FLOW RATE OF THE PUMP DISCHARGE TO AN IMPRACTICAL RATE.
 - REMOVE AND DISPOSE OF ACCUMULATED SEDIMENT AWAY FROM WATERWAYS OR ENVIRONMENTALLY SENSITIVE AREAS. SLIT OPEN DEWATERING BAG AND REMOVE ACCUMULATED SEDIMENT. DISPOSE OF BAG AT AN APPROPRIATE RECYCLING OR SOLID WASTE FACILITY, OR: OPEN BOTH ENDS OF THE DEWATERING TUBE, PICK IT UP IN THE CENTER AND DUMP ACCUMULATED SEDIMENT OUT OF BOTH ENDS. ALLOW TO DRY AND STORE FOR RE-USE, OR; AS DIRECTED BY ENGINEER OR INSPECTOR.

E
14
TYPICAL DEWATERING BAG DETAIL
SCALE: NONE



2
14
SECTION
SCALE: NONE

- NOTES:**
- UNDERGRATE INLET PROTECTION SHALL ONLY BE USED WHERE SHOWN ON PLANS. IT SHOULD ONLY BE USED FOR EXISTING CATCH BASINS IN EXISTING PAVED AREAS FOR LINEAR PIPELINE PROJECTS WHERE AMOUNT OF SEDIMENT RUN OFF IS MINIMAL AND DURATION OF CONSTRUCTION IS SHORT.
 - LIFT THE GRATE AND INSTALL FILTER FABRIC (ADS FLEXSTORM CATCH-IT LITE OR APPROVED EQUAL) OVER THE FRAME, AND THEN SET GRATE BACK IN PLACE.
 - INSPECT EACH INLET AT LEAST ONCE A WEEK AND WITHIN 24 HOURS AFTER EVERY RAINFALL. REPAIR AND REPLACEMENT OF INLET PROTECTION SHALL BE MADE AT TIME OF INSPECTION.
 - UPON STABILIZATION OF THE AREA UPSTREAM FROM THE INLET, THE PROTECTION SHALL BE REMOVED WITH THE APPROVAL OF THE ENGINEER.

D
14
TYPICAL TEMPORARY INLET PROTECTION DETAIL
SCALE: NONE

RECORD DRAWING
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CHECKED	JOB	DESCRIPTION	RECORD DRAWINGS	DATE	No.
				1/18/22	1

TOWN OF
WILLISTON,
VERMONT

LAMPLITE ACRES
WATERLINE
CONTRACT No. 1

**EROSION CONTROL
DETAILS AND NOTES**

DESIGNED JEN	PROJECT NO. 19047
DRAWN JEN	DRAWING 14
CHECKED WAE	
DATE NOV. 2020	