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ENGINEERING IMPROVEMENT PLANS

FOR

PRAIRIE PATHWAYS - BUTTON BUSH DRIVE

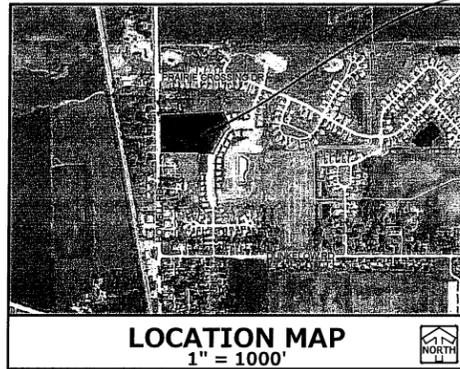
CALEDONIA, WISCONSIN

PLANS PREPARED FOR

THE NEWPORT GROUP, LTD

8338 CORPORATE DRIVE #300
MOUNT PLEASANT, WI 53406

LEGEND		
	EXISTING	PROPOSED
SANITARY SEWER MANHOLE	⊙	⊙
STORM SEWER MANHOLE	⊕	⊕
STORM SEWER CATCH BASIN (ROUND CASTING)	⊙	⊙
STORM SEWER CATCH BASIN (RECTANGULAR CASTING)	□	□
PRECAST FLARED END SECTION	△	△
CONCRETE HEADWALL	∩	∩
VALVE BOX	⊗	⊗
FIRE HYDRANT	⊙	⊙
CLEANOUT	⊕	⊕
SANITARY SEWER	—	—
FORCE MAIN	—	—
STORM SEWER	—	—
DRAIN TILE	—	—
WATER MAIN	— W —	— W —
FIRE PROTECTION	—	— FP —
ELECTRICAL CABLE	— E —	— E —
OVERHEAD WIRES	— OHW —	— OHW —
GAS MAIN	— G —	— G —
TELEPHONE LINE	— T —	— T —
UTILITY CROSSING	—	— (X) —
CAUTION EXISTING UTILITIES NEARBY		⚠ CAUTION
GRANULAR TRENCH BACKFILL		▨
LIGHTING	⊙	⊙
ELECTRICAL TRANSFORMER OR PEDESTAL	⊕	⊕
POWER POLE	⊙	⊙
POWER POLE WITH LIGHT	⊙	⊙
GUY WIRE	—	—
STREET SIGN	⊙	⊙
CONTOUR	749	749
SPOT ELEVATION	X (750.00)	+750.00
WETLANDS	—	—
PRIMARY ENVIRONMENTAL CORRIDOR	—	—
FLOODWAY	—	—
FLOODPLAIN	—	—
HIGH WATER LEVEL (HWL)	—	—
NORMAL WATER LEVEL (NWL)	—	—
DIRECTION OF SURFACE FLOW	→	→
DITCH OR SWALE	—	—
DIVERSION SWALE	→	→
OVERFLOW RELIEF ROUTING	→	→
TREE WITH TRUNK SIZE	⊙	⊙
SOIL BORING	⊕	⊕
TOPSOIL PROBE	⊕	⊕
FENCE LINE, TEMPORARY SILT	— SF —	— SF —
FENCE LINE, WIRE	—	—
FENCE LINE, CHAIN LINK OR IRON	—	—
FENCE LINE, WOOD OR PLASTIC	—	—
CONCRETE SIDEWALK	—	—
CURB AND GUTTER	—	—
DEPRESSED CURB	—	—
REVERSE PITCH CURB & GUTTER	—	—
EASEMENT LINE	—	—



PROJECT LOCATION

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PROJECT CONTACTS	
DESIGNER CONTACT AARON KOCH 20725 WATERTOWN ROAD, SUITE 100 BROOKFIELD, WI 53186 (262) 754-8888	DEVELOPER CONTACT NANCY WASHBURN 7450 COUNTY LINE ROAD MOUNT PLEASANT, WI 53403 (262) 818-1836

ABBREVIATIONS			
BL	BASE LINE	MH	MANHOLE
BP	BOTTOM OF PIPE	NWL	NORMAL WATER LEVEL
C	LONG CHORD OF CURVE	PC	POINT OF CURVATURE
C & G	CURB AND GUTTER	PT	POINT OF TANGENCY
CB	CATCH BASIN	PVI	POINT OF VERTICAL INTERSECTION
CL	CENTERLINE	R	RADIUS
D	DEGREE OF CURVE	ROW	RIGHT-OF-WAY
EP	EDGE OF PAVEMENT	SAN	SANITARY SEWER
FES	FLARED END SECTION	ST	STORM SEWER
FF	FINISHED FLOOR	T	TANGENCY OF CURVE
FG	FINISHED GRADE	TB	TOP OF BANK
FL	FLOW LINE	TC	TOP OF CURB
FP	FLOODPLAIN	TF	TOP OF FOUNDATION
FR	FRAME	TP	TOP OF PIPE
FW	FLOODWAY	TS	TOP OF SIDEWALK
FYG	FINISHED YARD GRADE	TW	TOP OF FOUNDATION WALL
HWL	HIGH WATER LEVEL	WM	WATER MAIN
INV	INVERT	Δ	INTERSECTION ANGLE
L	LENGTH OF CURVE		

GENERAL NOTES	
1.	THE INTENTION OF THE PLANS AND SPECIFICATIONS IS TO SET FORTH PERFORMANCE AND CONSTRUCTION MATERIAL STANDARDS FOR THE PROPER EXECUTION OF WORK. ALL WORKS CONTAINED WITHIN THE PLANS AND SPECIFICATIONS SHALL BE COMPLETED IN ACCORDANCE WITH ALL REQUIREMENTS FROM LOCAL, STATE, FEDERAL OR OTHER GOVERNING AGENCY'S LAWS, REGULATIONS, JURISDICTIONAL ORDINANCES/CODES/RULES/ETC., AND THE OWNER'S DIRECTION.
2.	NO GEOTECHNICAL REPORT HAS FOR THE PROJECT SITE. THE DATA ON SUB-SURFACE SOIL CONDITIONS IS NOT INTENDED AS A REPRESENTATION OR WARRANTY OF THE CONTINUITY OF SUCH CONDITIONS BETWEEN BORINGS OR INDICATED SAMPLING LOCATIONS. IT SHALL BE EXPRESSLY UNDERSTOOD THAT OWNER WILL NOT BE RESPONSIBLE FOR ANY INTERPRETATIONS OR CONCLUSIONS DRAWN THERE FROM BY THE CONTRACTOR. DATA IS MADE AVAILABLE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ANY ADDITIONAL SOILS INVESTIGATIONS THEY FEEL IS NECESSARY FOR THE PROPER EVALUATION OF THE SITE FOR PURPOSES OF PLANNING, BIDDING, OR CONSTRUCTING THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.
3.	THE CONTRACTOR IS RESPONSIBLE TO REVIEW AND UNDERSTAND ALL COMPONENTS OF THE PLANS AND SPECIFICATIONS, INCLUDING FIELD VERIFYING SOIL CONDITIONS, PRIOR TO SUBMISSION OF A BID PROPOSAL.
4.	THE CONTRACTOR SHALL PROMPTLY REPORT ANY ERRORS OR AMBIGUITIES LEARNED AS PART OF THEIR REVIEW OF PLANS, SPECIFICATIONS, REPORTS AND FIELD INVESTIGATIONS.
5.	THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE COMPUTATION OF QUANTITIES AND WORK REQUIRED TO COMPLETE THIS PROJECT. THE CONTRACTOR'S BID SHALL BE BASED ON ITS OWN COMPUTATIONS AND IN NO SUCH INSTANCE RELY ON THE ENGINEER'S ESTIMATE.
6.	QUESTIONS/CLARIFICATIONS WILL BE INTERPRETED BY ENGINEER/OWNER PRIOR TO THE AWARD OF CONTRACT. ENGINEER/OWNER WILL SUBMIT OFFICIAL RESPONSES IN WRITING. INTERPRETATIONS PRESENTED IN OFFICIAL RESPONSES SHALL BE BINDING ON ALL PARTIES ASSOCIATED WITH THE CONTRACT. IN NO WAY SHALL WORD-OF-MOUTH DIALOG CONSTITUTE AN OFFICIAL RESPONSE.
7.	PRIOR TO START OF WORK, CONTRACTOR SHALL BE COMPLETELY FAMILIAR WITH ALL CONDITIONS OF THE SITE, AND SHALL ACCOUNT FOR CONDITIONS THAT AFFECT, OR MAY AFFECT CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, LIMITATIONS OF WORK ACCESS, SPACE LIMITATIONS, OVERHEAD OBSTRUCTIONS, TRAFFIC PATTERNS, LOCAL REQUIREMENTS, ADJACENT ACTIVITIES, ETC. FAILURE TO CONSIDER SITE CONDITIONS SHALL NOT BE CAUSE FOR CLAIM OF JOB EXTRAS.
8.	COMMENCEMENT OF CONSTRUCTION SHALL EXPLICITLY CONFIRM THAT THE CONTRACTOR HAS REVIEWED THE PLANS AND SPECIFICATIONS IN ENTIRETY AND CERTIFIES THAT THEIR SUBMITTED BID PROPOSAL CONTAINS PROVISIONS TO COMPLETE THE PROJECT, WITH THE EXCEPTION OF UNFORESEEN FIELD CONDITIONS; ALL APPLICABLE PERMITS HAVE BEEN OBTAINED, AND CONTRACTOR UNDERSTANDS ALL OF THE REQUIREMENTS OF THE PROJECT.
9.	SHOULD ANY DISCREPANCIES OR CONFLICTS IN THE PLANS OR SPECIFICATIONS BE DISCOVERED AFTER THE AWARD OF CONTRACT, ENGINEER SHALL BE NOTIFIED IN WRITING IMMEDIATELY AND CONSTRUCTION OF ITEMS AFFECTED BY THE DISCREPANCIES/CONFLICTS SHALL NOT COMMENCE, OR CONTINUE, UNTIL A WRITTEN RESPONSE FROM ENGINEER/OWNER IS DISTRIBUTED. IN THE EVENT OF A CONFLICT BETWEEN REFERENCED CODES, STANDARDS, SPECIFICATIONS AND PLANS, THE ONE ESTABLISHING THE MOST STRINGENT REQUIREMENTS SHALL BE FOLLOWED.
10.	THE CONTRACTOR SHALL, AT ITS OWN EXPENSE, OBTAIN ALL NECESSARY PERMITS AND LICENSES TO COMPLETE THE PROJECT. OBTAINING PERMITS, OR DELAYS, IS NOT CAUSE FOR DELAY OF THE CONTRACT OR SCHEDULE. CONTRACTOR SHALL COMPLY WITH ALL PERMIT REQUIREMENTS.
11.	THE CONTRACTOR SHALL NOTIFY ALL INTERESTED GOVERNING AGENCIES, UTILITY COMPANIES AFFECTED BY THIS CONSTRUCTION PROJECT, AND DIGGER'S HOTLINE IN ADVANCE OF CONSTRUCTION TO COMPLY WITH ALL JURISDICTIONAL ORDINANCES/CODES/RULES/ETC., PERMIT STIPULATIONS, AND OTHER APPLICABLE STANDARDS.
12.	SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE TO INITIATE, INSTITUTE, ENFORCE, MAINTAIN, AND SUPERVISE ALL SAFETY PRECAUTIONS AND JOB SITE SAFETY PROGRAMS IN CONNECTION WITH THE WORK.
13.	CONTRACTOR SHALL KEEP THE JOBSITE CLEAN AND ORDERLY AT ALL TIMES. ALL LOCATIONS OF THE SITE SHALL BE KEPT IN A WORKING MANNER SUCH THAT DEBRIS IS REMOVED CONTINUOUSLY AND ALL RESPECTIVE CONTRACTORS OPERATE UNDER GENERAL "GOOD HOUSEKEEPING."
14.	THE CONTRACTOR SHALL INDEMNIFY THE OWNER, ENGINEER, AND THEIR AGENTS FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, AND TESTING OF THE WORK ON THIS PROJECT.

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**PINNACLE ENGINEERING GROUP, LLC
ENGINEER'S LIMITATION**

PINNACLE ENGINEERING GROUP, LLC AND THEIR CONSULTANTS DO NOT WARRANT OR GUARANTEE THE ACCURACY AND COMPLETENESS OF THE DELIVERABLES HEREIN BEYOND A REASONABLE DILIGENCE. IF ANY MISTAKES, OMISSIONS, OR DISCREPANCIES ARE FOUND TO EXIST WITHIN THE DELIVERABLES, THE ENGINEER SHALL BE PROMPTLY NOTIFIED PRIOR TO BID SO THAT HE MAY HAVE THE OPPORTUNITY TO TAKE WHATEVER STEPS NECESSARY TO RESOLVE THEM. FAILURE TO PROMPTLY NOTIFY THE ENGINEER OF SUCH CONDITIONS SHALL ABSOLVE THE ENGINEER FROM ANY RESPONSIBILITY FOR THE CONSEQUENCES OF SUCH FAILURE. ACTIONS TAKEN WITHOUT THE KNOWLEDGE AND CONSENT TO THE ENGINEER, OR IN CONTRADICTION TO THE ENGINEER'S DELIVERABLES OR RECOMMENDATIONS, SHALL BECOME THE RESPONSIBILITY NOT OF THE ENGINEER BUT OF THE PARTIES RESPONSIBLE FOR TAKING SUCH ACTION.

FURTHERMORE, PINNACLE ENGINEERING GROUP, LLC IS NOT RESPONSIBLE FOR CONSTRUCTION SAFETY OR THE MEANS AND METHODS OF CONSTRUCTION.

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PRAIRIE PATHWAYS BUTTON BUSH DRIVE CALEDONIA, WI

COVER SHEET

REVISIONS		SHEET
1. PER VILLAGE COMMENTS	10/18/21	

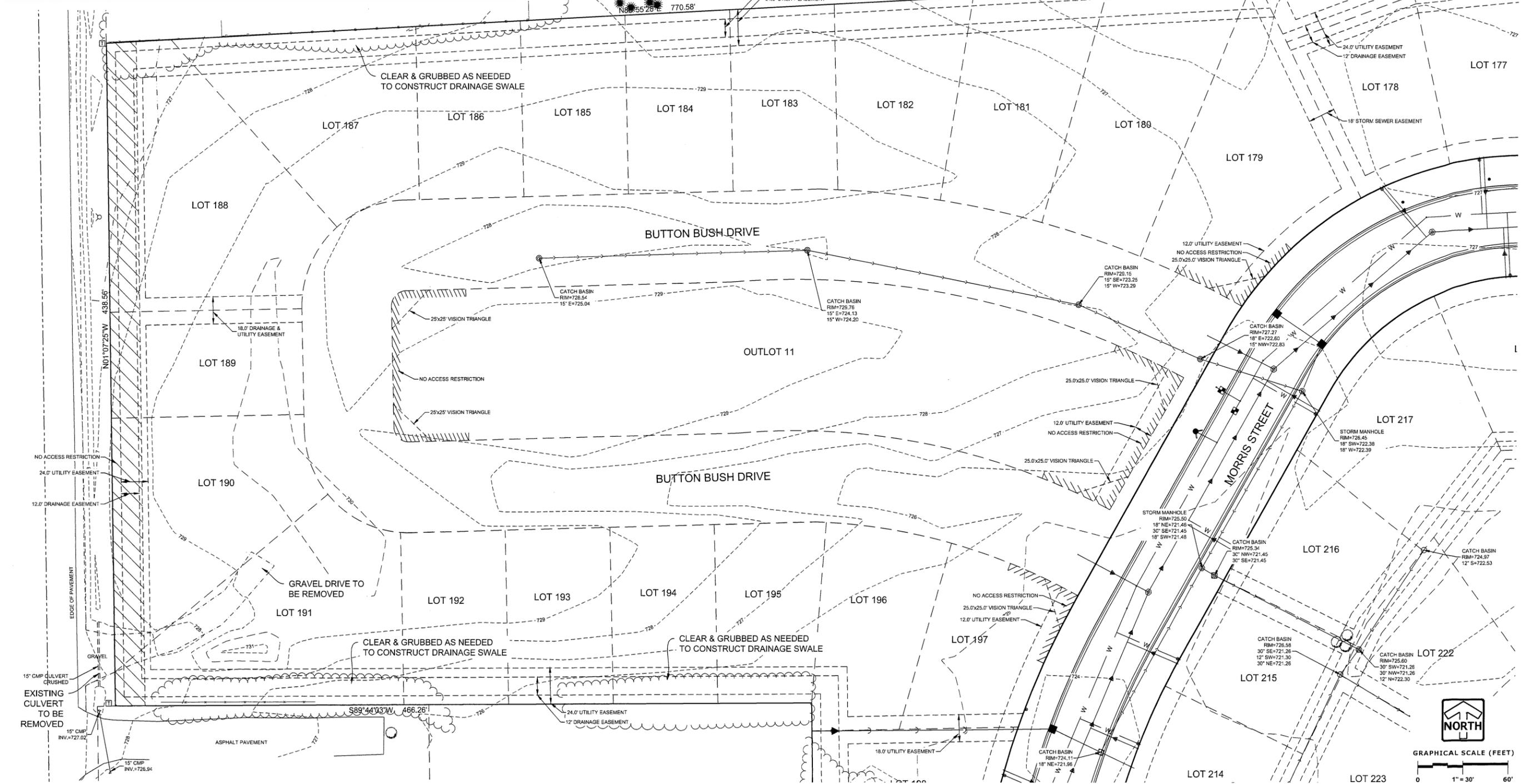
COVER SHEET

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LEGEND OF SYMBOLS & ABBREVIATIONS

<ul style="list-style-type: none"> ⊕ SANITARY MANHOLE ⊕ STORM MANHOLE ⊕ STORM INLET ⊕ CLEANOUT ⊕ CATCH BASIN ⊕ LATERAL ⊕ UNKNOWN MANHOLE ⊕ WELL ⊕ HYDRANT ⊕ WATER VALVE ⊕ DOWN SPOUT ⊕ SPRINKLER VALVE ⊕ WATER SHUT OFF 	<ul style="list-style-type: none"> ▲ STANDPIPE ⬤ FLOOD LIGHT ★ LIGHT POLE ⊕ TRAFFIC SIGNAL ⊕ UTILITY POLE ⊕ GUY WIRE ⊕ FIBER OPTIC VAULT ⊕ FIBER OPTIC MANHOLE ⊕ TELEPHONE PEDESTAL ⊕ TELEPHONE VAULT ⊕ TRANSFORMER ⊕ ELECTRIC METER 	<ul style="list-style-type: none"> ⊕ ELECTRIC MANHOLE ⊕ CABLE TV RISER/BOX ⊕ CABLE TV MANHOLE ⊕ GAS VALVE ⊕ GAS METER ⊕ GAS MARKER ⊕ AIR CONDITIONING UNIT ⊕ VENT ⊕ DIRECTIONAL ARROW ⊕ DUMPSTER ⊕ HANDICAP STALL ⊕ TRANSFORMER ⊕ SIGN 	<ul style="list-style-type: none"> ⊕ MAIL BOX ⊕ FLAG POLE ⊕ BASKETBALL HOOP ⊕ BOLLARD ⊕ CROSS CUT ⊕ IRON PIPE ⊕ IRON REBAR/ROD ⊕ MAG NAIL ⊕ SECTION MONUMENT ⊕ BENCH MARK ⊕ CONIFER TREE ⊕ DECIDUOUS TREE ⊕ BUSH ⊕ WETLAND SYMBOL 	<p>UNDERGROUND UTILITY LINES</p> <ul style="list-style-type: none"> — SANITARY SEWER — STORM SEWER — WATER MAIN — FIBER OPTIC — TELEPHONE — ELECTRICAL — OVERHEAD WIRES — CABLE TELEVISION — GAS MAIN — WET
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EXISTING CONDITIONS

REVISIONS	
1 PER VILLAGE COMMENTS	10/18/21

SHEET
2
 OF
13

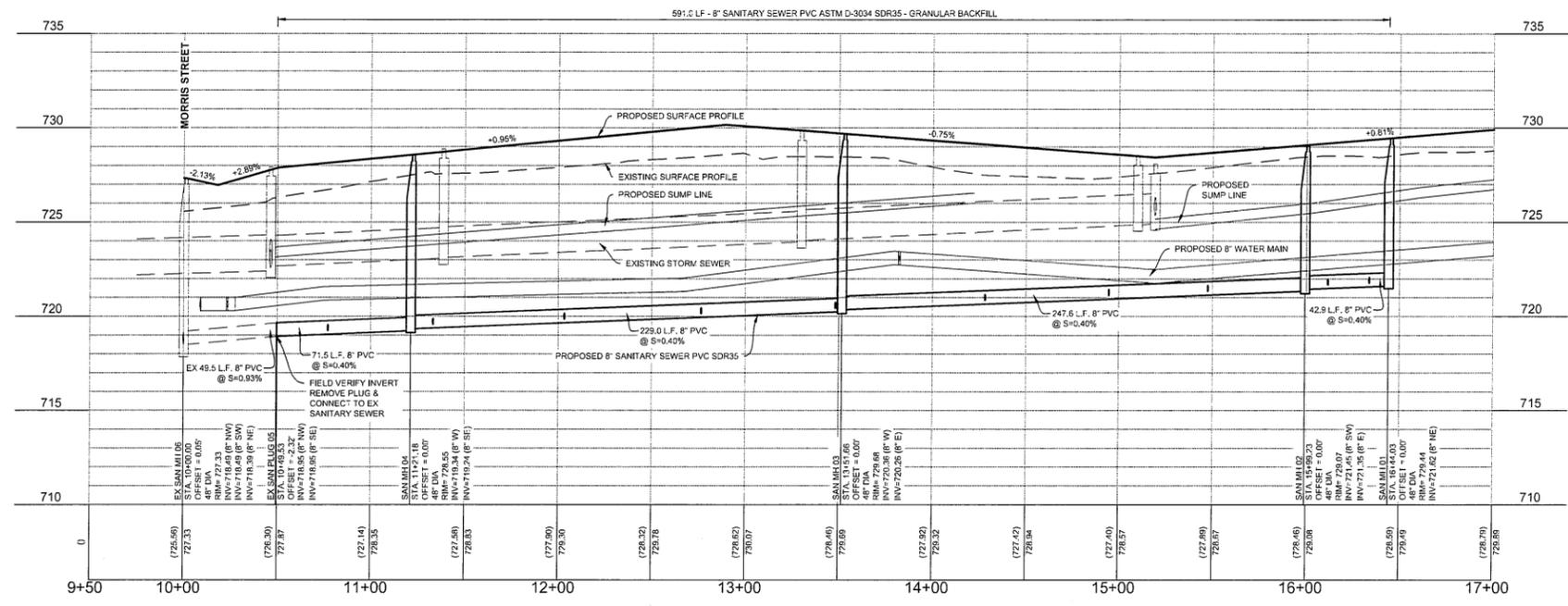
EXISTING CONDITIONS

Z:\PROJECTS\2017\951.10\CAD\SHETS\2 EXISTING CONDITIONS.DWG

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CROSSINGS	
1	12" STORM OVER 8" SANITARY 12" STM B/PIPE = 725.43 8" SAN T/PIPE = 721.70
2	12" STORM OVER 8" SANITARY 12" STM B/PIPE = 722.57 8" SAN T/PIPE = 719.59



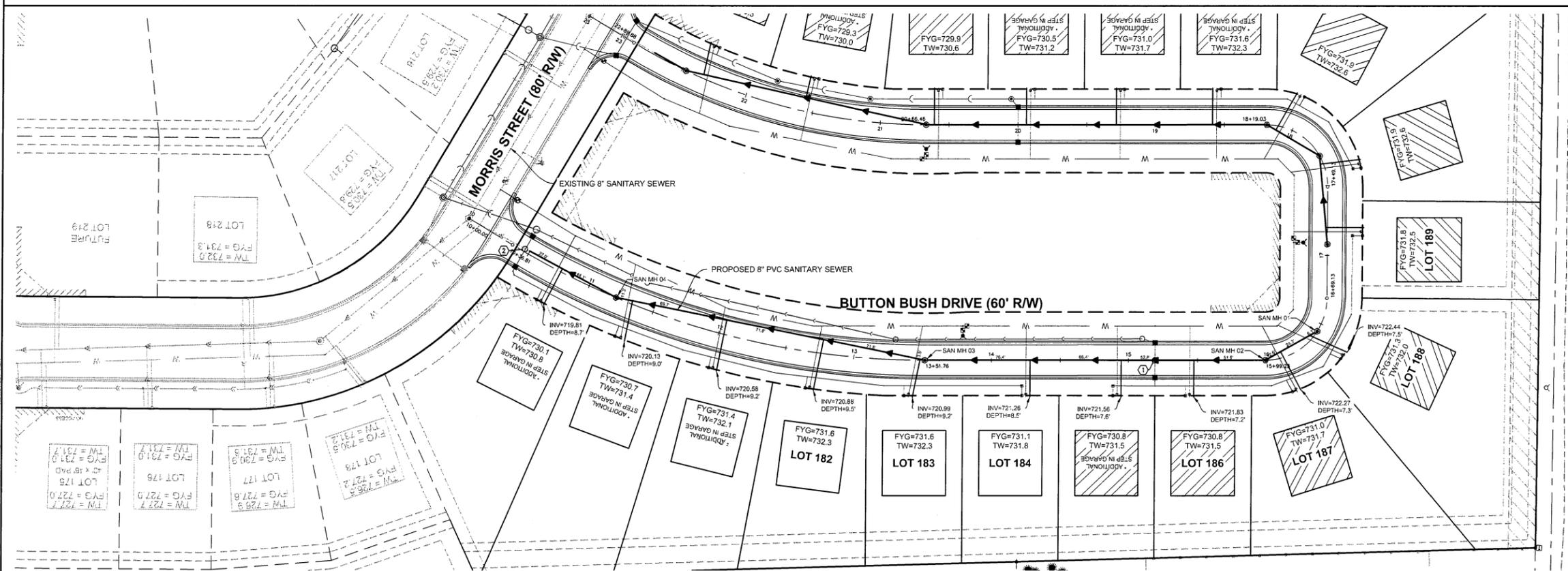
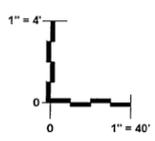
PROPOSED LOTS WITH HUNG PLUMBING

ALL SANITARY SEWER LATERALS ARE 4" PVC & MINIMUM SLOPE FOR LATERALS SHALL BE 1/4" PER LINEAR FOOT

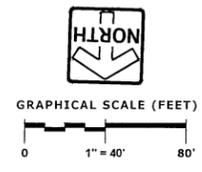
TRACER WIRE IS REQUIRED FOR SANITARY SEWER & SANITARY LATERALS

ALL LOTS HAVE GRAVITY FED LATERALS UNLESS OTHERWISE NOTED

ALL SANITARY SEWER LATERALS SHALL BE INSTALLED PER CALEDONIA UTILITY DISTRICT SPECIFICATIONS



COUNTY TRUNK HIGHWAY "H"



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SANITARY SEWER PLAN & PROFILE

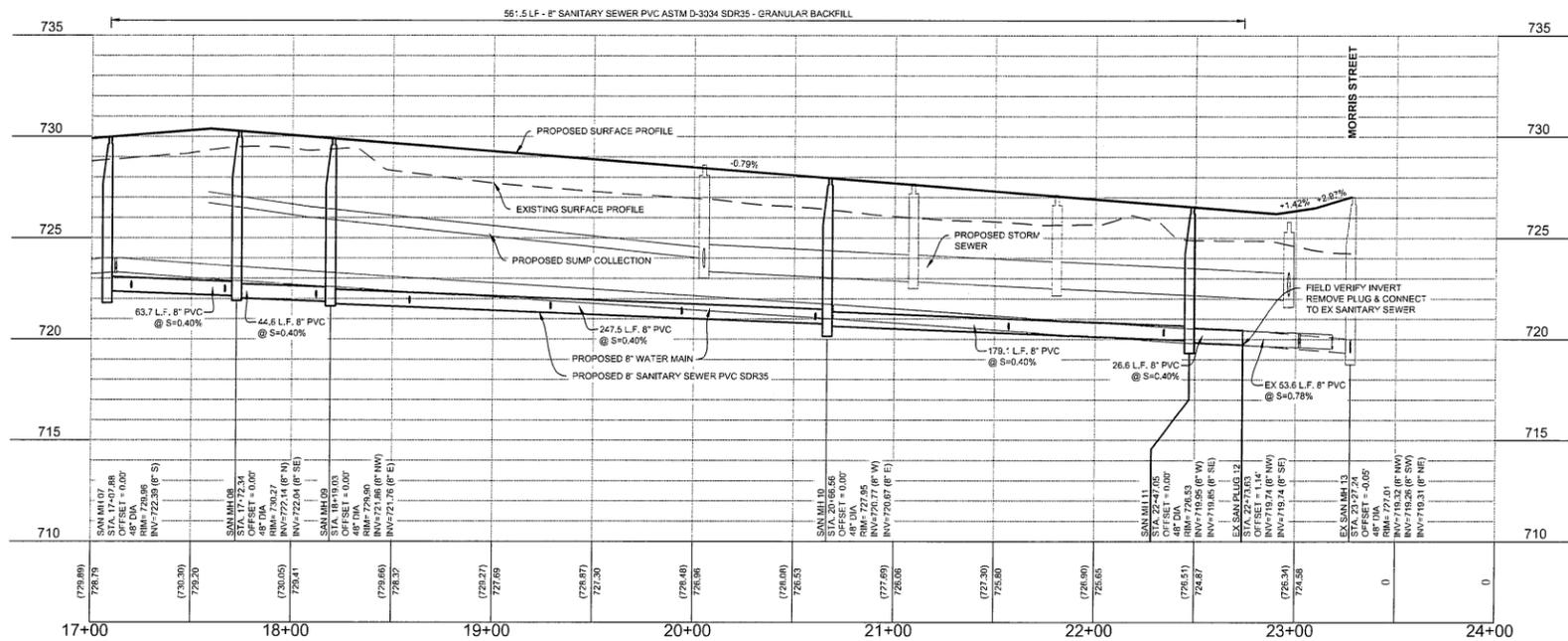
REVISIONS	
1	PER VILLAGE COMMENTS 10/18/21

PEG FOR NO. 9511LD PEG PM A/EK START DATE 10/16/20 SCALE 1" = 40'	SHEET 5 OF 13
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Z:\PROJECTS\2017\9511-10-WI\CAD\SHEETS\6 SANITARY SEWER PLAN & PROFILE.DWG

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CROSSINGS	
3	12" STORM OVER 8" SANITARY 12" STM B/PIPE= 723.57 8" SAN T/PIPE= 721.71
4	12" STORM OVER 8" SANITARY 12" STM B/PIPE= 722.04 8" SAN T/PIPE= 720.23

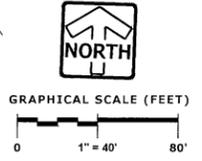
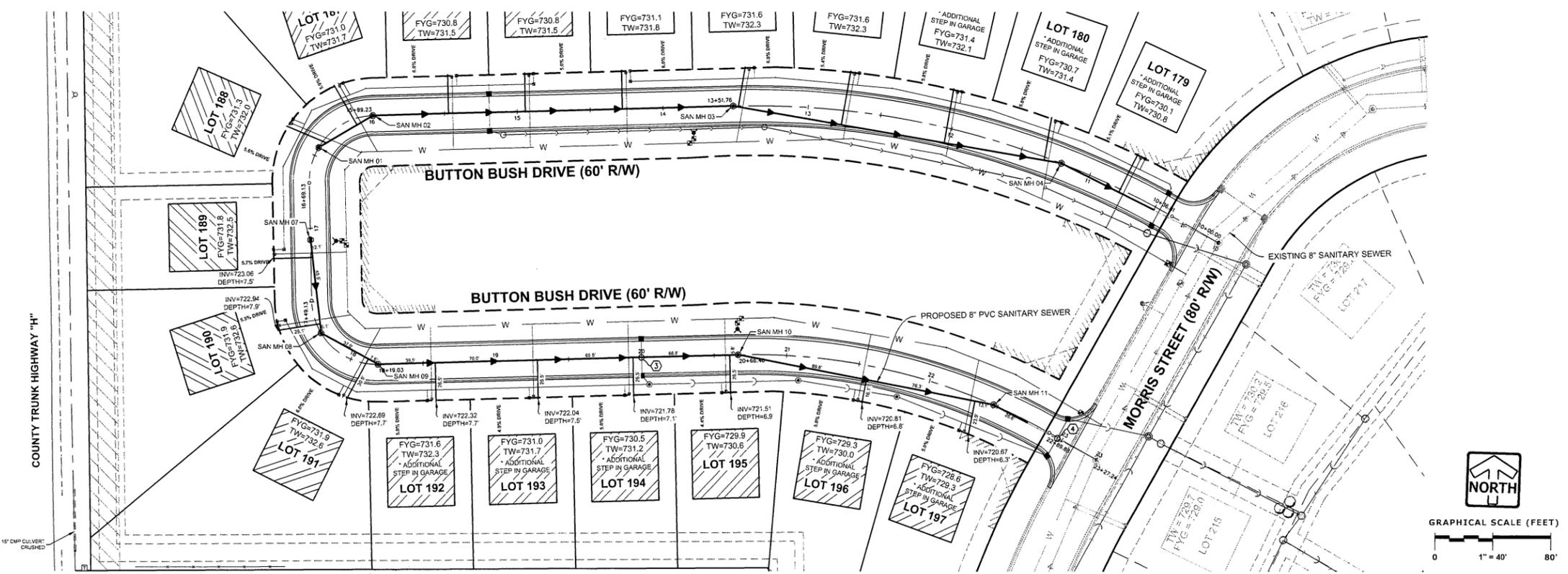
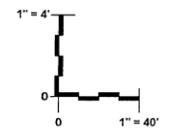
PROPOSED LOTS WITH HUNG PLUMBING

ALL SANITARY SEWER LATERALS ARE 4" PVC & MINIMUM SLOPE FOR LATERALS SHALL BE 1/4" PER LINEAR FOOT

TRACER WIRE IS REQUIRED FOR SANITARY SEWER & SANITARY LATERALS

ALL LOTS HAVE GRAVITY FED LATERALS UNLESS OTHERWISE NOTED

ALL SANITARY SEWER LATERALS SHALL BE INSTALLED PER CALEDONIA UTILITY DISTRICT SPECIFICATIONS



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SANITARY SEWER PLAN & PROFILE

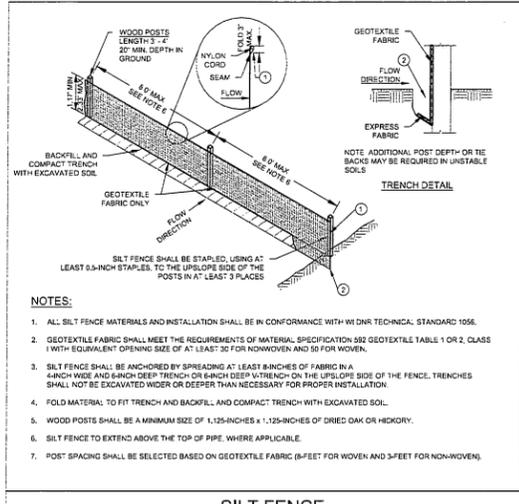
REVISIONS	
1 PER VILLAGE COMMENTS	10/18/21

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FIG PM	AWK	6
SCALE DATE 10/16/20	###	OF
SCALE	###	13

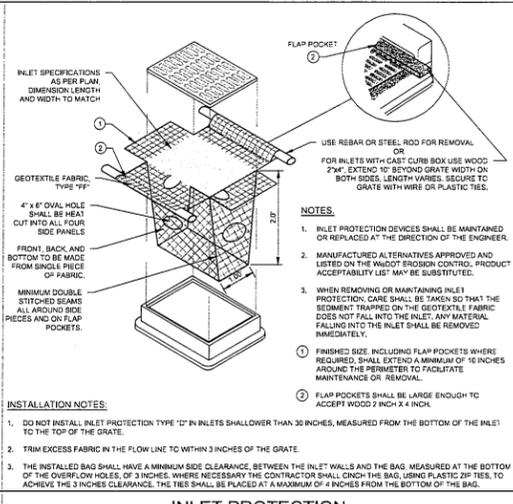
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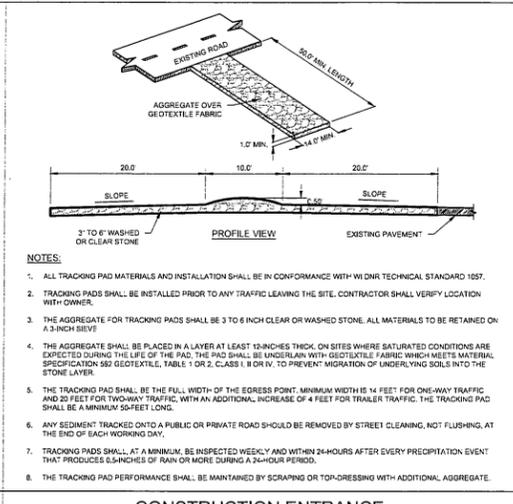
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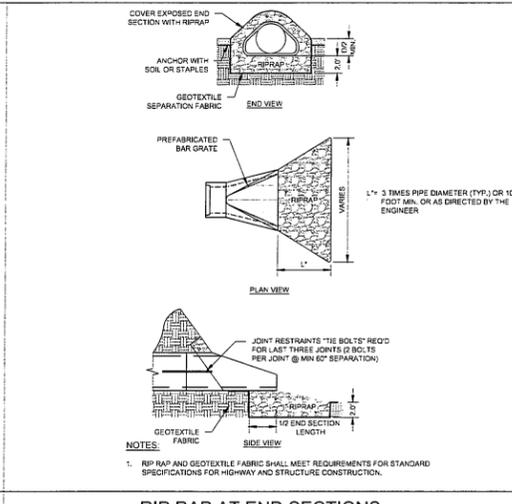
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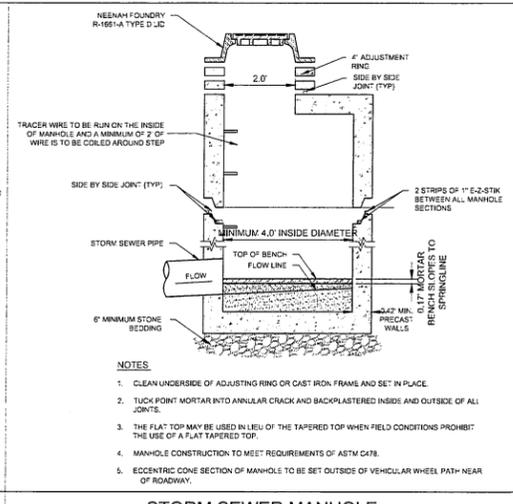
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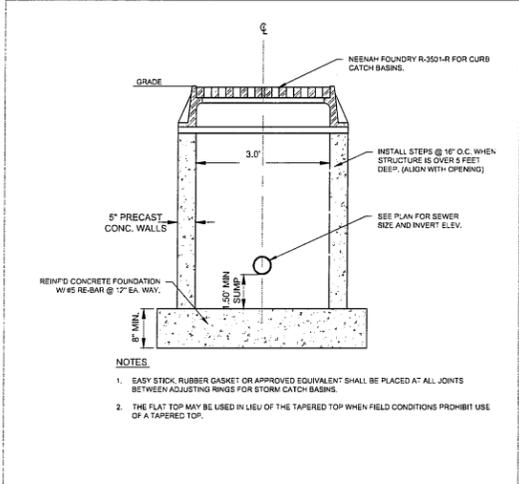
CONSTRUCTION ENTRANCE



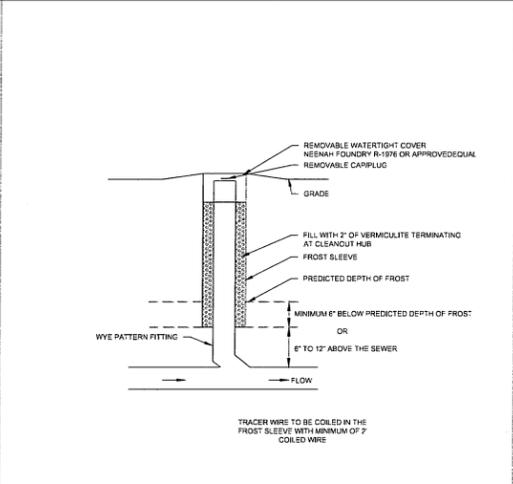
RIP RAP AT END SECTIONS



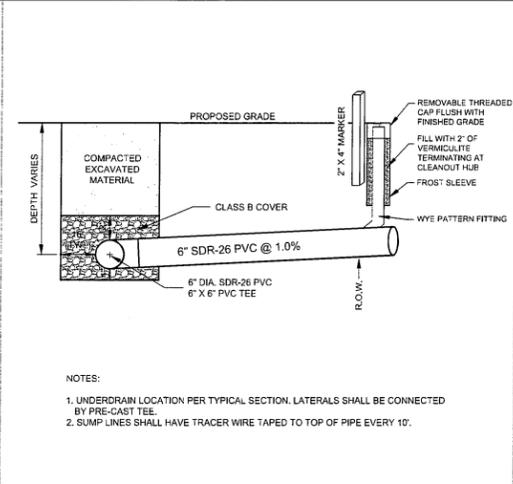
STORM SEWER MANHOLE



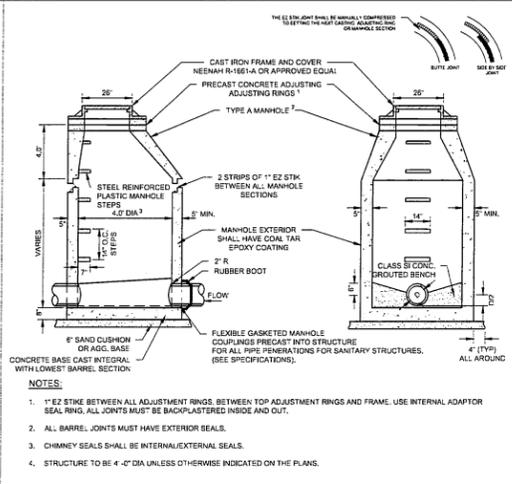
2' x 3' CATCH BASIN



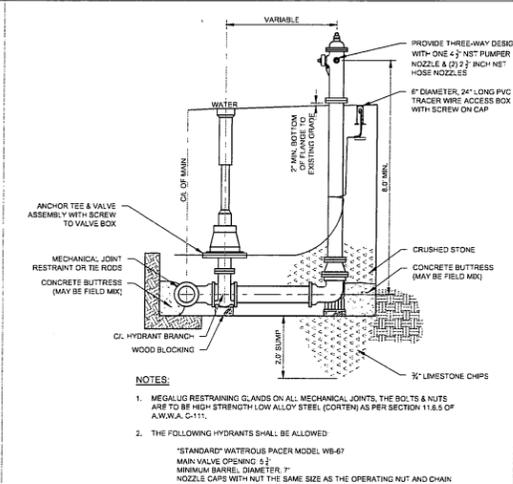
STORM CLEANOUT



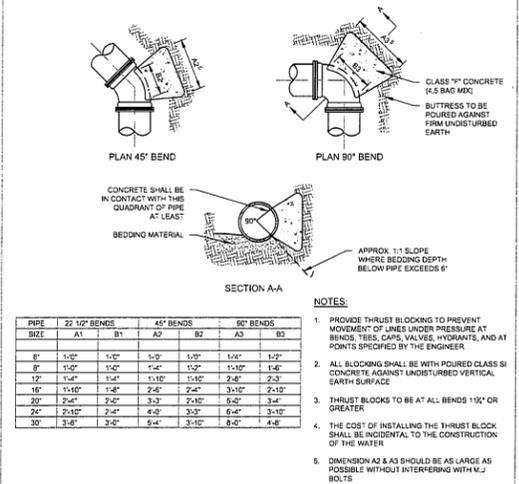
SUMP PUMP LATERAL



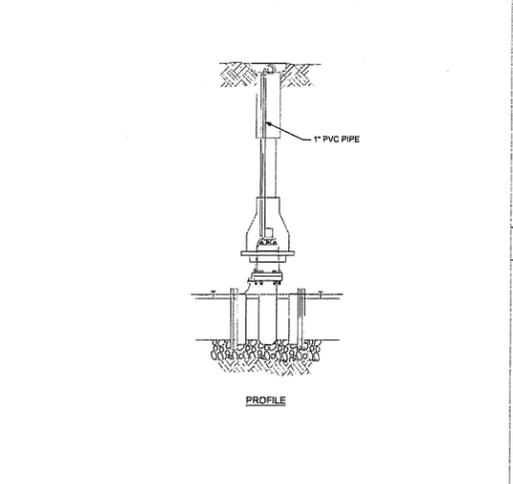
SANITARY MANHOLE



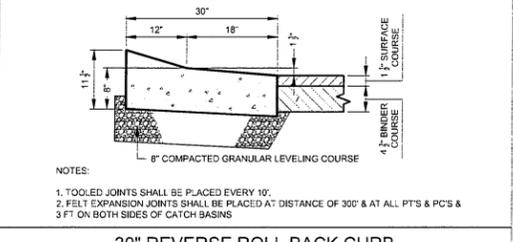
FIRE HYDRANT



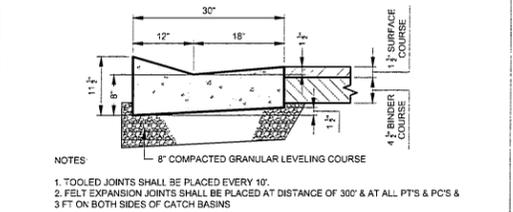
THRUST BLOCK



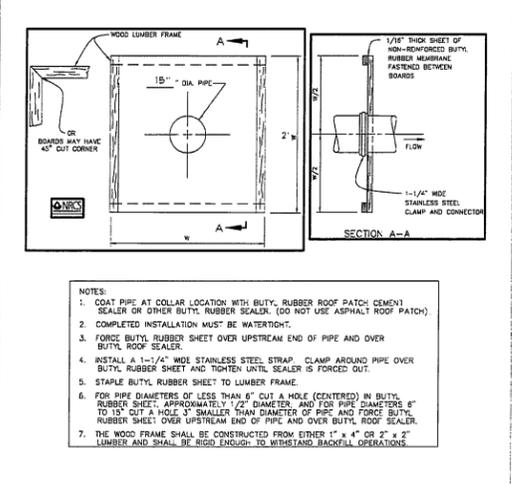
TRACER WIRE AT GATE & BUTTERFLY VALVES



30° REVERSE ROLL BACK CURB



30° ROLL BACK CURB



ANTI-SEEP COLLAR

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CONSTRUCTION DETAILS & SPECIFICATIONS

REVISIONS	
1. PER VILLAGE COMMENTS	10/18/21

SHEET
12
 OF
13