VILLAGE OF BUFFALO GROVE CHATHAM LIFT STATION RECONSTRUCTION

VILLAGE PRESIDENT **BEVERLY SUSSMAN**

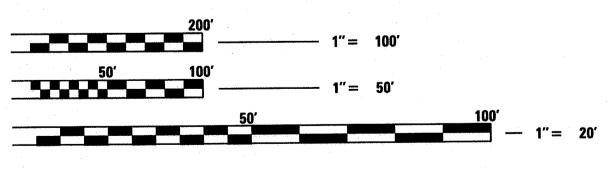
VILLAGE CLERK **JANET SIRABIAN**

VILLAGE MANAGER DANE C. BRAGG

TRUSTEES **ANDREW STEIN** DAVID WEIDENFELD ERIC SMITH **GREGORY PIKE JOANNE JOHNSON** LESTER A. OTTENHEIMER III

CHATHAM LIFT STATION

EXISTING VILLAGE OF BUFFALO GROVE 20" - 30' SANITARY SEWER

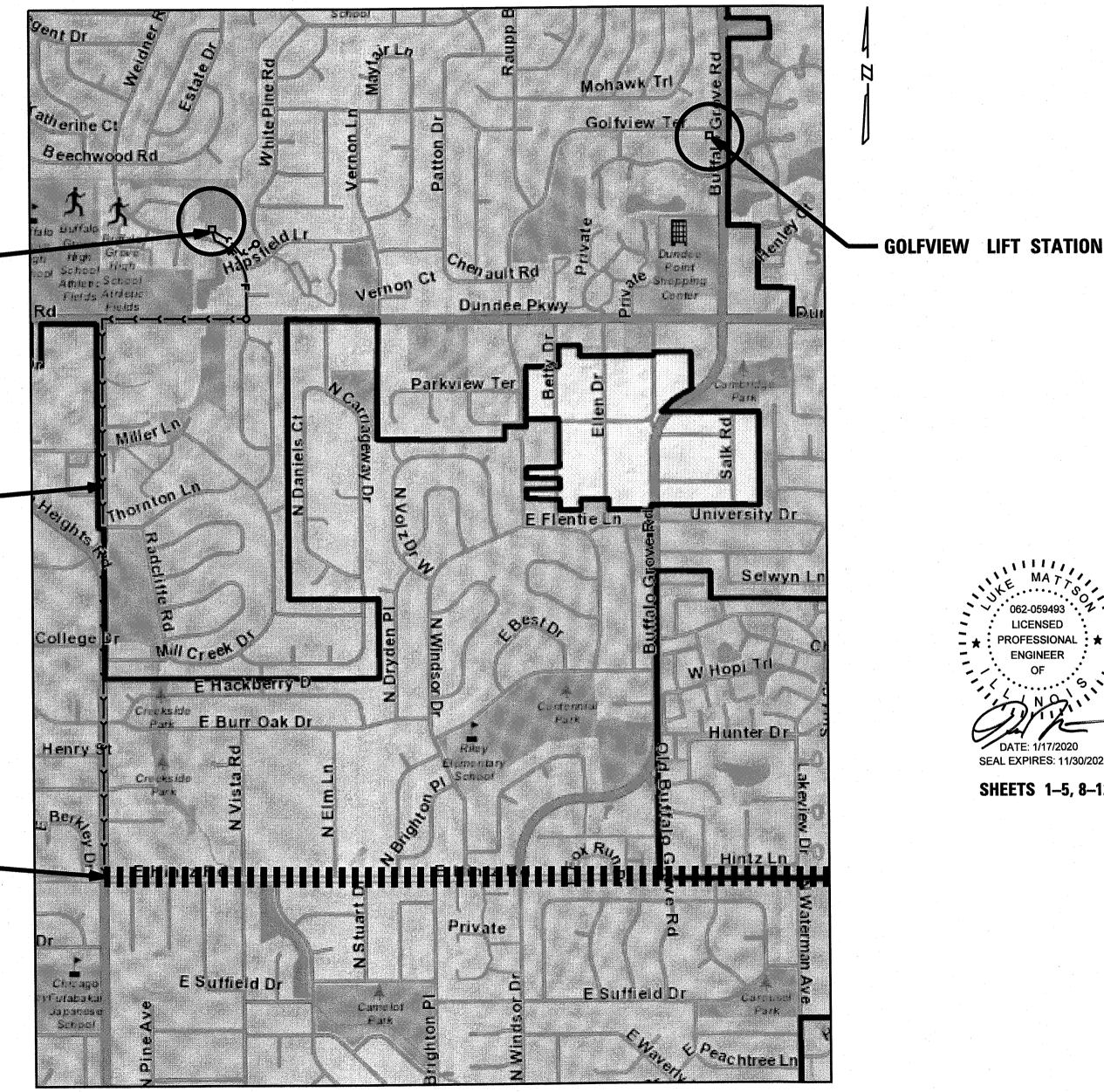


42" MWRD INTERCEPTOR DES PLAINES No. 14 C.

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED

CONTACT INFORMATION 800.892.0123 J.U.L.I.E. **Buffalo Grove** 847.459.2545 **Public Works** 847.459.2560 Police 847.537.0995 Fire 911 Emergency

BID# VoBG-2020-03



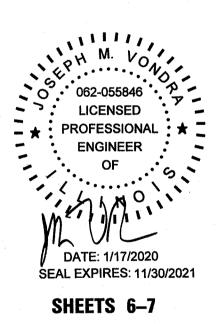
BENCHMARK (NAVD 88)

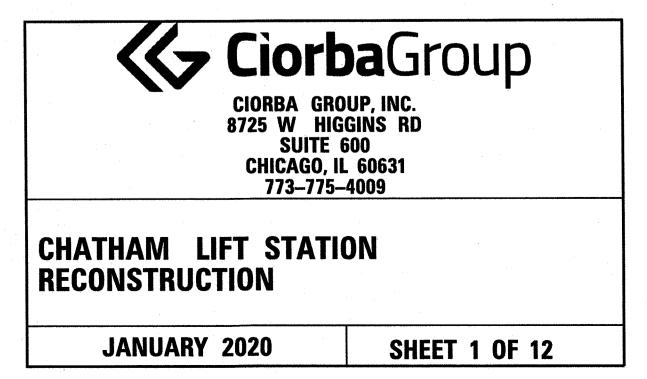
Village Benchmark 26 FEMA Reference Mark #4 **Center of North Headwall of** White Pine Ditch at Dundee Road Crossing **NAVD '88** EL = 693.34'

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10	Miscellaneous Details 3
11	IDOT Details 1
12	IDOT Details 2

MAT SEAL EXPIRES: 11/30/2021

SHEETS 1-5, 8-12





8725 W Higgins Poad Suite 6	Solution PLOT DATE 1/16/2020 DATE - 1/16/2020	REVISED		1	SCALE: SHEET NO	0. 2 OF 12 SHEET
	OrbaGroup DRAWN - CLB PLOT SCALE = CHECKED - LAM	REVISED REVISED		VILLAGE OF BUFFALO GROVE		GEND AND GEN
÷ 0	DWNER. G CONSULTANT USER NAME = cbenton DESIGNED - LAM	REVISED) – 		1	12. WASTE, CONST VI LIFT STATION
C	ROPOSED EQUIPMENT, CONDUITS, ETC. ARE SHOWN DIAGRAMMATICALLY. THE CONTRACTOR SHALL COORDINATE EXACT EQUIPMENT SIZES, LOCATIONS, ROUTING, ETC. VERIFY ALL LOCATIONS / ROUTING WITH		SAND UTILIZED FOR BACK SEPARATELY BUT INCLUDE	FILLING IN THE PARKWAY AND ADDITIONAL TOPSOIL NEEDED SHALL NOT BE PAID ED IN THE CONTRACT.	FOR	11. PROPERLY MA MAINTENANCE
61602 D	HE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES AND STORAGE OF EQUIPMENT OR MATERIALS TO THE DESIGNATED OR APPROVED WORK CONSTRUCTION LIMITS. ANY DAMAGE TO PRIVATE PROPERTY SHALL BE DEPAIRED AT CONTRACTOR'S EXPENSE.		OF THE ENGINEER. AT TH PREVENT SETTLEMENT. TH	THE SPECIFICATIONS SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFAC E CONTRACTOR'S OPTION SAND MAY BE UTILIZED AS BACKFILL IN TURF AREAS TO IE SAND MUST BE KEPT 6" BELOW FINISHED GRADE FOR ACCEPTANCE OF TOPSOIL) L. ALL	10. CONCRETE W/ PROJECT.
T	IO EXTRA WORK OF ANY NATURE SHALL BE UNDERTAKEN WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE OWNER OR HIS REPRESENTATIVE.	9.	WEEKLY BASIS AT NO COS BACKFILL IN TURF AREAS	ST TO THE VILLAGE. MAY UTILIZE THE EXISTING SUBGRADE. ANY SETTLEMENT WITHIN THE WARRANTY		9. PUMPS MAY BE PUMPED WATE SUPPLEMENTAL
R I Miscocke	ITILITIES ARE SHOWN BASED ON INTERPRETATION OF INFORMATION RECEIVED. THE CONTRACTOR IS ESPONSIBLE FOR LOCATING ALL EXISTING WATERMAIN, SANITARY AND STORM SEWER, AND UTILITIES PRIOR TO NSTALLATION OF LIFT STATION OR FORCEMAIN.	8.	THE MARKED MATERIALS	AGED MATERIALS AS INSPECTED BY THE ENGINEER WILL BE MARKED WITH SPRAY REMAIN THE PROPERTY OF THE CONTRACTOR. ALL MATERIALS MARKED ARE DEEM UCTION BY THE ENGINEER AND MUST BE REMOVED FROM THE PROJECT SITE ON A	ED	THE CONTRACT
O 18. TI 	WNER, PRIOR TO COMMENCING THE INSTALLATION AND CONSTRUCTION. HE DESIGN OF PROPOSED LIFT STATION AND FORCEMAIN AND THE LOCATIONS AND ELEVATIONS OF EXISTING	7.		RINGS SHALL BE REMOVED AND CUT FLUSH ONCE THE STRUCTURE IS IN ITS FINAL RTAR INSTALLED TO COVER THE REBAR.	L	8. LOCATIONS WH
м 200616 2016 2016 2016 2016 2016	VORK SHALL BE SUBMITTED TO THE OWNER, IN WRITING, WITH WRITTEN APPROVAL BY THE OWNER RECEIVED RIOR TO BEGINNING SAID WORK. ALL MATERIALS AND CONSTRUCTION WHETHER IMPLICITLY OR EXPLCITLY TATED OR COVERED WITHIN THE REQUIREMENTS, CODES OR SPECIFICATIONS, SHALL BE APPROVED BY THE			ITH THE IDOT DISTRICT ONE DETAIL "PRUNING FOR SAFETY AND EQUIPMENT CLEA ED INCLUDED IN THE COST OF THE CONTRACT. ALL ADDITIONAL TREE TRIMMING N GINEER.		7. CONTRACTOR S CALENDAR DAY
C C C	OMPLETION OF THE DAY'S ACTIVITIES ON THE DAY PRECEDING A HOLIDAY OR A WEEKEND.	6.	RE-ERECTED ON THE SAM	E DAY TO THE SATISFACTION OF THE ENGINEER.		 EROSION CONT DEWATERING S APPROVED BY
	VITH THE LATEST REVISION DATE ON THE JOB SITE PRIOR TO THE START OF CONSTRUCTION.	4. 5		BRACING REQUIRED SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONT MOVED. IF SIGNS ARE TAKEN DOWN FOR CONSTRUCTION PURPOSES, THEY MUST I		4. DISPOSAL OF D INCLUDED IN T
0	WNER WHICH INCLUDES, BUT IS NOT LIMITED TO, LABOR, MATERIALS, PROCEDURES, AND SAFETY.	3.	ANY EARTH EXCAVATION ITEM.	DONE WITH REMOVAL OR FRAMING OF DRIVEWAY OR SIDEWALK IS INCIDENTAL TO	THAT	3. EXISTING PAVE DIRECTED BY (
W 14. IT	VITH THE APPROPRIATE STANDARD. I SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ABIDE BY, ADHERE TO, AND PERFORM ALL WORK IN CCORDANCE WITH THE REQUIREMENTS, SPECIFICATIONS, STANDARDS, PRACTICES, POLICIES, AND CODES OF THE	2.	REGULATIONS, AND LAWF	GIVE NOTICES AND COMPLY WITH APPLICABLE LAWS, ORDINANCES, RULES, UL ORDERS OF ALL PUBLIC AUTHORITIES BEARING ON SAFETY OF PERSONS OR FECTION FROM DAMAGE, INJURY, OR LOSS.		2. IF APPLICABLE, MODIFIED AS N NECESSARY. S
A W G C	LL TRENCHES CAUSED BY THE CONSTRUCTION OF SEWERS, FORCEMAINS, WATERMAIN, WATER SERVICE PIPES, ND ALL EXCAVATIONS AROUND CATCH BASINS, MANHOLES, INLETS, AND OTHER APPURTENANCES WHICH OCCUR WITHIN TWO FEET OF THE LIMITS OF EXISTING AND PROPOSED PAVEMENTS, SIDEWALKS, AND CURB AND GUTTERS, SHALL BE BACKFILLED WITH SELECT GRANULAR BACKFILL (CRUSHED) (IDOT GRADATON CA-7) AND COMPACTED PROPERLY, OR AS SHOWN ON THE DETAILS. ANY DEPRESSIONS IN PAVEMENT AREAS THAT WERE EPLACED SHALL BE REMOVED AND CONSTRUCTED PROPERLY AT THE CONTRACTOR'S EXPENSE IN ACCORDANCE		FRAMES, LIDS, GRATES, V SHALL BE SALVAGED AND COORDINATE DELIVERY TO	ALVES, FIRE HYDRANTS, ECT. WHICH ARE ABANDONED OR REPLACED IN THIS PRO REMAIN PROPERTY OF THE VILLAGE OF BUFFALO GROVE. THE CONTRACTOR SHAL 51 RAUPP BLVD WITH THE ENGINEER. ANY DAMAGE TO THE SALVAGED ITEMS D IGENCE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.	JECT LL	1. ANY STORM W PARTICLES FRC THE DRAINAGE
N A	IOTED. ALL EXCESS TRENCH MATERIAL IS TO BE REMOVED FROM THE SITE. THE COST OF SAID REPLACEMENT ND REMOVAL SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.	7. V	MUD, DIRT, DEBRIS, AND	s, and other public and private property must be kept safe and free fr swept daily.) $F BUFFALO GROVE NOTE$		SOIL EI
C	HE CONTRACTOR SHALL RESTORE SURFACES TO THE ORIGINAL PRE-CONSTRUCTION CONDITION IF DAMAGED BY CONSTRUCTION. ANY EXISTING CURB, PAVEMENT, OR SIDEWALK DISTURBED DURING THE CONSTRUCTION ROCESS IS TO BE REPLACED. UNPAVED AREAS ARE TO BE FINE GRADED AND SODDED UNLESS OTHERWISE	6.	CONJUNCTION WITH THE	ESPONSIBLE FOR THE IMMEDIATE RESTORATION OF ALL OFF-SITE AREAS DISTURBE PERMITTED CONSTRUCTION ACTIVITY.		w
M A	HE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS AND VARNING DEVICES TO INFORM AND PROTECT THE PUBLIC. THE STANDARD SPECIFICATIONS SHALL APPLY. PPROPRIATE CONTROL METHODS SHALL BE APPLIED TO THE SPECIFIC SITUATIONS AND TYPES OF CONSTRUCTION OPERATIONS BEING PERFORMED.	5.		LE TOILETS ARE REQUIRED. A PLAN MUST BE SUBMITTED WHICH INDICATES THE THE DUMPSTER AND PORTABLE TOILET. ALL DUMPSTERS MUST BE COVERED AN	D	
E A	ROCEDURES OF CONSTRUCTION, OR THE SAFETY, PRECAUTIONS, AND PROGRAMS INCIDENT THERETO, AND THE NGINEER WILL NOT BE RESPONSIBLE FOR CONTRACTORS' FAILURE TO PERFORM OR FURNISH THE WORK IN CCORDANCE WITH THE CONTRACT DOCUMENTS.	4.	OR WHEN NO RESPONSIBI	ATED AND THE GATE LOCKED WITH A SHARED LOCK AT THE END OF EVERY WORK LE PERSONS ARE ON SITE. FAILURE TO LOCK THE FENCE WILL RESULT IN A ONE-INE LE THE PAYMENT OF \$100 LOCKING SERVICE FEE TO REMOVE THE VILLAGE'S LOCK	DAY	───FM── ──(←──
D	PECIAL PROVISIONS, AND THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). THE ENGINEER WILL NOT BE RESPONSIBLE FOR CONTRACTORS' MEANS, METHODS, TECHNIQUES, SEQUENCES, OR	3.	OF THE SECURITY FENCIN	5 REQUIRED. A SITE PLAN MUST BE SUBMITTED THAT SHOWS THE PROPOSED LOG G TO BE PROVIDED DURING CONSTRUCTION. FENCING SHALL BE CONSTRUCTED C K FENCING LOCATED AT THE LIMITS OF CONSTRUCTION.		
B L/ B	EGINS. ALL WORK CONDUCTED SHALL BE PROTECTED IN ACCORDANCE WITH APPLICABLE PORTIONS OF THE ATEST EDITION OF THE "ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND RIDGE CONSTRUCTION" (IL STANDARD SPECIFICATIONS), SUPPLEMENTAL SPECIFICATIONS AND RECURRING	2.	ACCESS MUST BE PROVID OR VIOLATION SITUATIONS	ED FOR VILLAGE PERSONNEL TO ENTER PROJECT SITE AND TAKE ACTION IN EMERG	GENCY	
9. T C M	HE CONTRACTOR, AT HIS EXPENSE, SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND BONDS FOR CONSTRUCTION ALONG OR ACROSS EXISTING ROADWAYS WITHIN THE PROJECT SITE. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR PROPER BRACING, SHORING, OR OTHER PROTECTION REQUIRED, INCLUDING INSTALLATION AND MAINTENANCE OF ADEQUATE TRAFFIC CONTROL AND PROTECTION BEFORE CONSTRUCTION		TRAFFIC CONTROL MEASU SIGNAGE, BARRIERS, COO	RES INCLUDING TRAFFIC FLOW, PARKING, AND ACCESS, AND INCLUDE ANY DETOU RDINATION, MAINTENANCE OF THE PLAN, AND ANY WORK NECESSARY TO LIMIT PROPERTIES. ALL COST ASSOCIATED WITH TRAFFIC CONTROL SHALL BE INCLUDEI		-O- PROPOSED
A C	I IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL MATERIAL QUANTITIES AND APPRAISE HIMSELF OF LL CONDITIONS. THE CONTRACT PRICE SUBMITTED BY THE CONTRACTOR SHALL BE CONSIDERED AS THE TOTAL COST FOR THE COMPLETE PROJECT. NO CLAIMS FOR EXTRA WORK WILL BE RECOGNIZED DUE TO THE CONTRACTOR'S FAILURE TO UNDERSTAND THE SCOPE OF WORK.	C .	CONTRACTOR SHALL SUBI	TION $MANAGEMENT$ $REQUI$ mit a maintenance and protection of traffic control plan and receive gineer prior to beginning any work. The plan shall include temporary	IREMENTS:	
D	C. OWNER AND CURRENT MUNICIPAL CODES. D. NATIONAL ELECTRIC CODE.	8.	VILLAGE REPRESENTATIVE			T/S
A A B	RE HEREBY MADE A PART HEREOF: "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", LATEST EDITION. "STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS", LATEST EDITION.	7.		E SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY. ALL SUBGRADE IN TED TO 90% MODIFIED PROCTOR DENSITY.	LAWN	← + →
T C	THE CONTRACT DRAWINGS. IF THERE ARE ANT DISCREPANCIES TROM WHAT IS SHOWN ON THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY REPORT SAME TO THE OWNER PRIOR TO PERFORMING WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF WORK REQUIRED.	6.	SHOULD BE 4" INTO EXIS	RED ADJACENT TO EXISTING SIDEWALKS, CURBS, AND BUILDING. THE DOWEL BAR FING CONCRETE WITH 8" EXTENDING INTO NEW CONCRETE. E BARS SHALL BE EPOXY COATED UNLESS NOTED OTHERWISE.	RS	
C R 6. B	CONFLICTS ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THE CONFLICT CAN BE ESOLVED. EFORE BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LINE AND GRADES SHOWN ON THE CONTRACT DRAWINGS. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONTRACT DRAWINGS,	5.	TOOLED AT 15' INTERVAL	DINTS MUST BE FREE OF CONCRETE FOR FULL DEPTH. CONTRACTION JOINTS SHALL 5. 2D ON THE PLANS WHENEVER NEW CONCRETE ABUTS EXISTING/ OR NEW CONCRE ^T 2) FIBER EXPANSION JOINT AND DOWEL WITH SMOOTH 12" #4 BARS @ 24" O.C. TH	TE SET	——————————————————————————————————————
IS PI R	NGINEER. THIS DOES NOT PRECLUDE THE EXISTENCE OF OTHER UNDERGROUND UTILITIES. THE CONTRACTOR 5 RESPONSIBLE FOR VERIFICATION OF THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION AND TO ROVIDE FOR THEIR PROTECTION FROM DAMAGE DURING THE CONSTRUCTION. THE CONTRACTOR SHALL BE ESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANY UTILITY DAMAGED DURING CONSTRUTION TO THE ATISFACTION OF THE OWNERS'S REPRESENTATIVE AT THE CONTRACTOR'S COST. IF OTHER UTILITIES OR	4.	3/4" THICK PRE-MOLDED F BE INSTALLED IN ALL CUF RETURNS. ALTERNATE ENI	ND AGENTS OF CIORBA GROUP MUST BE LISTED AS ADDITIONAL INSURED. TIBER EXPANSION JOINTS WITH 2, 3/4" X 18" PLAIN ROUND, STEEL DOWEL BARS S ABS AT (45') FORTY FIVE FOOT INTERVALS AND AT ALL P.C.'S, P.T.'S, AND CURB DS OF THE DOWEL BARS SHALL BE GREASED AND FITTED WITH METAL EXPANSION	N	
A	HE LOCATION OF EXISTING UTILITIES, EASEMENTS, AND RIGHT-OF-WAYS ARE SHOWN ON THESE PLANS CCORDING TO SURVEYS CARRIED OUT AND REPRESENT THE BEST INFORMATION MADE POSSIBLE TO THE	3.	THE CONTRACTOR MUST	CARRY INSURANCE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. ALL		
U	INUSUAL SOIL CONDITIONS ENCOUNTERED ON THE PROJECT. IT SHALL BE THE BIDDERS' RESPONSIBILITY TO SCERTAIN THE EXACT NATURE OF SUBSURFACE CONDITIONS PRIOR TO THE CONSTRUCTION OF THE MPROVEMENTS.	2.	THE CONTRACTOR SHALL	UNICIPALITIES CODE AS WELL AS THE STANDARD SPECIFICATIONS.	1 ALL	
A	HE ENGINEER PLEDGES THE DESIGN, RECOMMENDATIONS, AND SPECIFICATIONS TO HAVE BEEN PREPARED IN CCORDANCE WITH CONDITIONS GENERALLY ENCOUNTERED IN THE INDUSTRY. THE DESIGN ENGINEER ASSUMES IO RESPONSIBILITY WITH RESPECT TO THE DESIGN RECOMMENDATIONS AND SPECIFICATIONS FOR COMPLEX OR	P 1.	ALL CONSTRUCTION WILL	SPECIFIC NOTES be inspected by the owner's representative. All work shall conform to	O THE	
Н	IOURS PRIOR TO STARTING CONSTRUCTION.	23.	ROADWAY PAVEMENT EXC	EPT WHERE IMPROVEMENTS ARE SHOWN BY DRAWINGS. LIMITS OF CONSTRUCTION ADWAY PAVEMENT) SHALL BE FENCED OFF IN ACCORDANCE WITH SECTION 01500		EXISTING
D	THE CONTRACTOR SHALL NOTIFY J.U.L.I.E (DIAL 1-800-892-0123) 48 HOURS PRIOR TO ANY EXCAVATION WORK TO DETERMINE THE LOCATIONS OF EXISTING UTILITIES. THE VILLAGE OF BUFFALO GROVE, AND THEIR DESIGNATED AGENTS SHALL BE NOTIFIED BY THE CONTRACTOR 48		CONTRACTOR. ALL SPOIL	G REQUIRED TO KEEP EXCAVATIONS DRY SHALL BE THE RESPONSIBILITY OF THE S SHALL BE PROMPTLY REMOVED FROM SITE. SHALL BE SUBJECT TO OWNER'S APPROVAL AND SHALL NOT IMPACT EXISTING		
	ERAL NOTES:					r

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ROSION CONTROL NOTES:

ATER DRAINAGE STRUCTURES THAT HAVE THE POTENTIAL TO ACCEPT RUNOFF CONTAINING SUSPENDED SOIL OM THE LIMITS OF CONSTRUCTION SHALL HAVE INLET FILTERS INSTALLED DIRECTLY ON OR UNDER THE GRATE OF STRUCTURE.

LEGEND: BUILDINGS У FIRE HYDRANT RIGHT-OF-WAY -----POWER POLE ROADWAY PLAN-PAVED 0 CATCH BASIN ROADWAY PLAN-UNPAVED α LIGHT POLE CENTERLINE \bigcirc MANHOLE EASEMENT Ο CATCH BASIN EDGE OF EXISTING PAVEMENT INLET FENCE MISCELLANEOUS POST 0 TELEPHONE LINE BIT BITUMINOUS PAVEMENT GAS MAIN CONC CONCRETE PAVEMENT WATER MAIN BENCHMARK ELECTRIC LINE BORINGS -COMBINED SEWER MONITORING WELL SANITARY SEWER \odot DECIDUOUS TREE STORM SEWER STREET LIGHTS SUMMIT _____S/L_____ DIRECTION OF DRAINAGE \otimes VALVE VAULT TREELINE \otimes VALVE BOX - VB

- TRAFFIC SIGNAL STREET CENTERLINE VAULT (Electric Utilities) TELEPHONE POLE
- SIGN (S)

	CONSTRUCTION LIMITS		ABANDON AND REMOVE UTILITY
- x —	FENCE	۲	LINE STOP
	SILT FENCE	$\textcircled{\bullet}$	MANHOLE
	FORCE MAIN		VALVE VAULT
\leftarrow	COMBINED SEWER		VALVE BOX - VB
	SANITARY SEWER	\bigotimes	TREE REMOVAL
	STORM SEWER	\Leftrightarrow	INLET FILTER
	WATER MAIN	TP	TREE PROTECTION
	RESTRAINED PUSH-ON JOINT		

SILT FENCE SHALL BE USED FOR PREVENTION OF SILT/SEDIMENT FROM LEAVING THE SITE. SILT FENCE SHALL BE NECESSARY TO ACCOMMODATE THE PHASING OF THE CONSTRUCTION AND REPAIRED/REPLACED AS BECOMES SILT FENCE WILL REMAIN IN PLACE UNTIL ALL REMAINING ITEMS OF THE PROJECT HAVE BEEN COMPLETED.

EMENT SURFACES SHALL BE INSPECTED DAILY FOR SOIL DEBRIS AND SHALL BE CLEANED WHEN NECESSARY OR AS OWNER.

DEBRIS SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE HE CONTRACT.

TROL PRACTICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH ILLINOIS URBAN MANUAL, LATEST REVISION.

SHALL BE IN ACCORDANCE WITH SPECIFICATION 31 23 19. FILTRATION AND DISCHARGE LOCATION SHALL BE THE VILLAGE.

SHALL INSPECT ALL SEDIMENTATION AND EROSION CONTROL MEASURES AT LEAST ONCE EVERY SEVEN (7) YS. CONTRACTOR SHALL CLEAN AND REPAIR ITEMS WITHIN 24 HOURS OF INSPECTION AS NECESSARY TO MAINTAIN DIMENTATION AND EROSION CONTROL MEASURES.

HERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING. TOR SHALL BE RESPONSIBLE FOR CLEANING ANY ROAD OR MATERIAL THAT IS FROM THE PROJECT. THIS WILL BE CLOSE OF EACH DAY OF WORK OR MORE FREQUENTLY AS FIELD CONDITIONS WARRANT.

USED AS BYPASS DEVICES, BUT IN NO CASE WILL THE WATER BE DIVERTED OUTSIDE OF THE PROJECT LIMIT. ALL ER SHALL BE FREE OF SILT. PUMPING MAY REQUIRE THE USE OF A SEDIMENT CONTAINMENT FILTER BAG AND OTHER SEDIMENT CONTROL MEASURES.

ASHOUT FACILITIES SHALL BE MADE AVAILABLE IF NEEDED, AND PROPERLY MAINTAINED THROUGHOUT THE

ANAGE ALL MATERIAL, STORAGE AREAS, PORTABLE TOILETS, AND EQUIPMENT FUELING, CLEANING, AND AREAS TO ENSURE THESE AREAS ARE FREE OF SPILLS, LEAKS, OR OTHER POTENTIAL POLLUTANTS.

STRUCTION DEBRIS, AND BUILDING MATERIALS SHALL BE COLLECTED AND PLACED IN APPROVED RECEPTACLES.

	RECONSTR	UCTION		COUNTY	TOTAL SHEETS	SHEET NO.
JF	RAL NOTES			СООК	12	2
S	STA.	TO STA.	 ILLINOIS			



A. REFERENCED SPECIFICATIONS 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING,	PIPE MATERIAL
EXCEPT AS MODIFIED HEREIN OR ON THE PLANS: * STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), BY THE	VITRIFIED CLAY
ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION; * STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST	CAST IRON SOIL
EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION; * VILLAGE OF BUFFALO GROVE MUNICIPAL CODE;	DUCTILE IRON P
 * THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL; * IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION. 	POLYVINYL CHL 6-INCH TO 15-IN 18-INCH TO 27-I
* MWRD PERMIT # B. NOTIFICATIONS	HIGH DENSITY F
 <u>B. NOTIFICATIONS</u> THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055). 	WATER MAIN QU 4-INCH TO 36-IN 4-INCH TO 12-IN
2. THE VILLAGE OF BUFFALO GROVE ENGINEERING DEPARTMENT AND PUBLIC MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.	14-INCH TO 48-1 THE FOLLOWING
3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123.	APPROVAL PRIOF THE PIPE MATER
C. GENERAL NOTES	<u>PIPE MATERIAL</u> POLYPROPYLENE
1. MWRD FACILITIES SHALL BE LOCATED PRIOR TO PROCEEDING WITH ANY CONSTRUCTION WORK.	12-INCH TO 24-IN
2. A MINIMUM HORIZONTAL / VERTICAL CLEARANCE OF 2 FEET SHALL BE MAINTAINED BETWEEN MWRD FACILITIES AND THE PROPOSED ELECTRICAL WORK.	30-INCH TO 60-II
3. NO HEAVY CONSTRUCTION EQUIPMENT AND DRIVING OF SHEET PILES IN THE VICINITY OF MWRD FACILITIES SHALL BE ALLOWED.	
 EXTRA CAUTION SHALL BE TAKEN FOR THE SAFETY AND INTEGRITY OF MWRD FACILITIES. THE MWRD SHALL HAVE 24 HOUR-A-DAY UNRESTRICTED ACCESS TO ALL MWRD STRUCTURES/SEWERS/ 	8. ALL SANITARY REQUIRES ST TO 1/4 THE OU
FACILITIES. 6. NO DEBRIS SHALL ENTER MWRD STRUCTURES/SEWERS/FACILITIES/WATERWAYS.	THAN EIGHT ABOVE THE T
 7. ALL ACCESS HATCHES/MANHOLE COVERS ON MWRD STRUCTURES/MANHOLES WITHIN THE PROJECT AREA SHALL NOT BE BURIED/COVERED. 	9. NON-SHEAR F OF DISSIMILA
8. ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).	10. ALL MANHOL CONSTRUCTI CAST INTO T
9. MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.	11. WHEN CONN AN EXISTIN
10. THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.	a) A CIRCU AND PR(b) REMOVE A WYE (
11. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.	c) WITH PI OF PROI 12. WHENEVER A DISTANCE FF
12. THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.	FURTHERMO SEWERS AND TRENCH, KEE TRENCH WIT
13. ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.	EARTH, KEEF DISTANCES I THE SEWER S WATER MAIN
14. MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.	13. ALL EXISTIN
15. THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.	GRANULAR M 14. ALL SANITAR MINIMUM IN
16. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.	CONCRETE.
17. RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED.	15. ALL SANITAR PRECAST "RU SECTIONS SH
ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.	16. ALL ABANDO NON-SHRINK 17. EXCEPT FOR
D. SANITARY SEWER 1. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.	ASSOCIATED PIPES ARE NO SEWERS, OR CONSTRUCTI
2. A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.	PERFORATED SHALL NOT E TO COMBINE
3. DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY OR MWRD.	18. A BACKFLOW REQUIRED B OWNER TO E ENSURE FUN
4. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).	TRIBUTARY T SEWAGE TAK
5. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.	
6. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.	

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ENGINEERING CONSULTANT USER NAME = cbenton DESIGNED - LAM REVISED REVISED DRAWN - CLB REVISED PLOT SCALE = CHECKED - LAM REVISED PLOT DATE = 1/14/2020 DATE - 1/16/2020

MWRD GENERAL NOTES

	PIPE SPECIFICATIONS ASTM C-700	JOINT SPECIFICATIONS ASTM C-425	
E SEWER PIPE	ASTM C-76	ASTM C-443	
	ASTM A-74	ASTM C-564	
	ANSI A21.51	ANSI A21.11	
PVC) PIPE METER SDR 26 AMETER F/DY=46	ASTM D-3034 ASTM F-679	ASTM D-3212 ASTM D-3212	
HYLENE (HDPE) PVC	ASTM D-3350 ASTM D-3035	ASTM D-3261,F-2620 (HEAT FUS ASTM D-3212,F-477 (GASKETED)	
	ASTM D-2241 AWWA C900 AWWA C905	ASTM D-3139 ASTM D-3139 ASTM D-3139	

ERIALS ARE ALLOWED ON A QUALIFIED BASIS SUBJECT TO DISTRICT REVIEW AND PERMIT ISSUANCE. A SPECIAL CONDITION WILL BE ADDED TO THE PERMIT WHEN BELOW IS USED FOR SEWER CONSTRUCTION OR A CONNECTION IS MADE.

PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
ASTM F-2736	D-3212, F-477
ASTM F-2764	D3212, F-477
	ASTM F-2736

VER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), BEDDING WITH STONE 1/4 " TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL DE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE CHES. MATERIAL SHALL BE CA-7, CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" F THE PIPE WHEN USING PVC.

BLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES E MATERIALS.

HALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS. SANITARY LIDS SHALL BE ITH A CONCEALED PICKHOLE AND WATERTIGHT GASKET WITH THE WORD "SANITARY"

NG TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR NHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED: SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SHEWER-TAP" MACHINE OR SIMILAR)

INSTALLATION OF HUBWYE SADDLE OR HUB-TEE SADDLE. ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH E BRANCH SECTION.

JTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION ITTING, USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.

IITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN. THE MINIMUM VERTICAL THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED FERMAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME E WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL RIBED CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, BE CONSTRUCTED TO WATER MAIN STANDARDS OR IT SHALL BE ENCASED WITH A LITY CARRIER PIPE WITH THE ENDS SEALED.

PTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH RIAL OR REMOVED.

NHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED

NHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE BOOTS" THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS. PRECAST CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.

SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG ICRETE OR MORTAR PLUG.

NDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, OR PERFORATED PIPES H VOLUME CONTROL FACILITIES, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED LLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS, SANITARY RM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. OF NEW FACILITIES OF THIS TYPE IS PROHIBITED; AND ALL EXISTING DRAIN TILES AND ES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND INNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY WERS.

VENTER IS REQUIRED FOR ALL DETENTION BASINS TRIBUTARY TO COMBINED SEWERS. LOW PREVENTERS SHALL BE INSPECTED AND EXERCISED ANNUALLY BY THE PROPERTY RE PROPER OPERATION, AND ANY NECESSARY MAINTENANCES SHALL BE PERFORMED TO NALITY. IN THE EVENT OF A SEWER SURCHARGE INTO AN OPEN DETENTION BASIN MBINED SEWERS, THE PERMITTEE SHALL ENSURE THAT CLEAN UP AND WASH OUT OF LACE WITHIN 48 HOURS OF THE STORM EVENT.

E. EROSION AND SEDIMENT CONTROL

- 1. THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
- 2. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.
- 3. ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
- 4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- 5. INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM: a) UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE. b) ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT
- WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION. 6. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE CO-PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
- 7. A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN MANUAL SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- 8. CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING CONCRETE.
- 9. MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.
- 10. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN. VOLUME CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.
- 12. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) DAYS.
- 13. ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).
- 14. VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
- 15. SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.
- 16. EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.
- 17. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.
- 18. THE CONTRACTOR SHALL EITHER REMOVE OR REPLACE ANY EXISTING DRAIN TILES AND INCORPORATE THEM INTO THE DRAINAGE PLAN FOR THE DEVELOPMENT. DRAIN TILES CANNOT BE TRIBUTARY TO A SANITARY OR COMBINED SEWER. DRAIN TILES ALLOWED IN COMBINED SEWER AREA FOR GREEN INFRASTRUCTURE PRACTICES.
- 19. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
- 20. THE CONTRCTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMAINS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES. ANY TRENCH DEWATERING, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGE TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.
- 21. ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.
- 22. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.
- 23. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.
- 24. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, OR MWRD.

ED -			CHATHAM LIFT STATION RECONSTRU	UCTION		COUNTY	TOTAL	SHEET	
ED -	VILLAGE OF BUFFALO GROVE					СООК	12	3	
ED -	VILLAGE OF BUFFALU GROVE		MWRD AND MAINTENANCE NOT	E9					
ED -		SCALE:	SHEET NO. 3 OF 12 SHEETS STA.	TO STA.	ILLINOIS				

PERPETUAL MAINTENANCE

NOTES

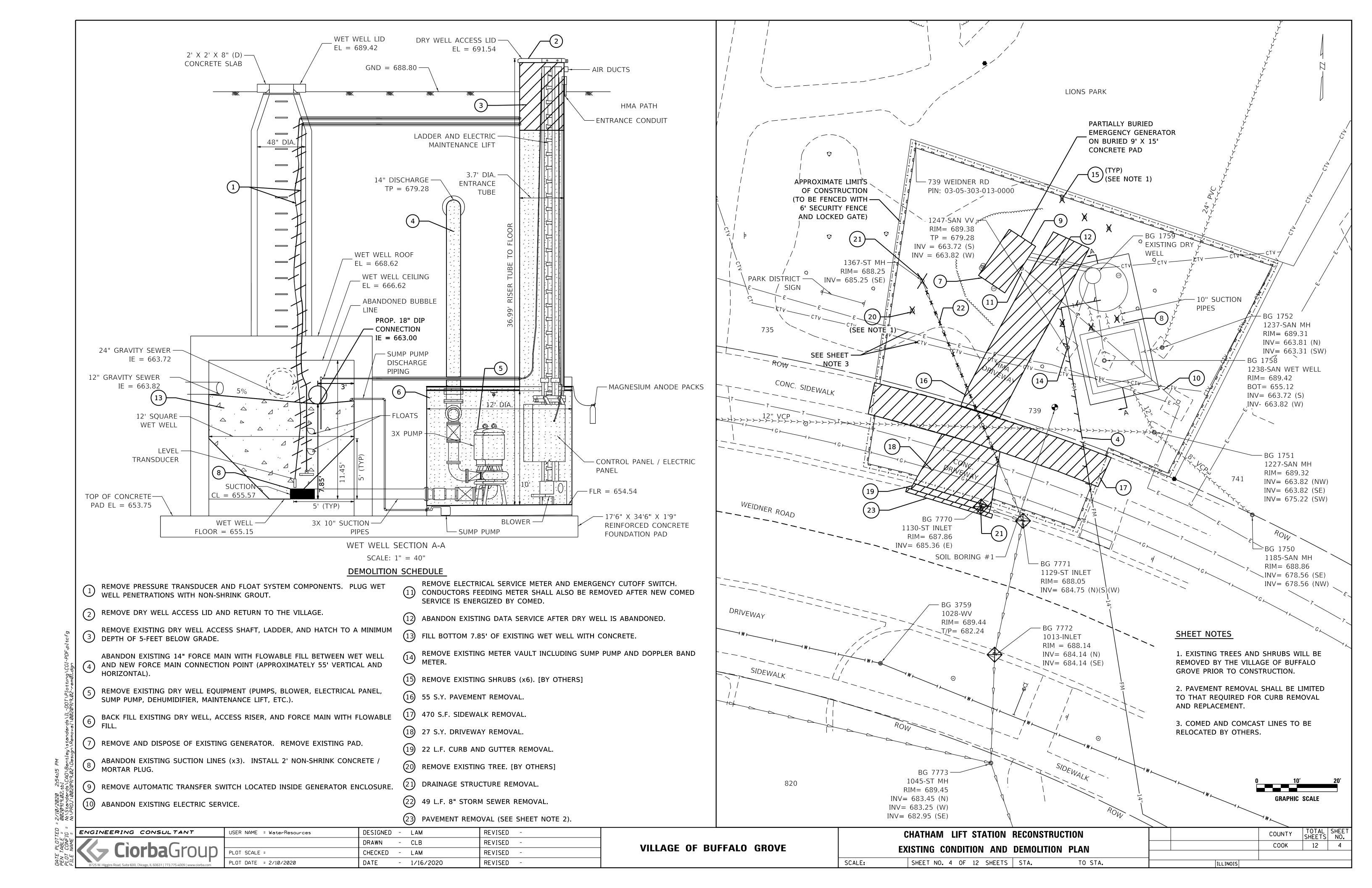
Planned annual lift station routine maintenance should include the following upon completion of construction:

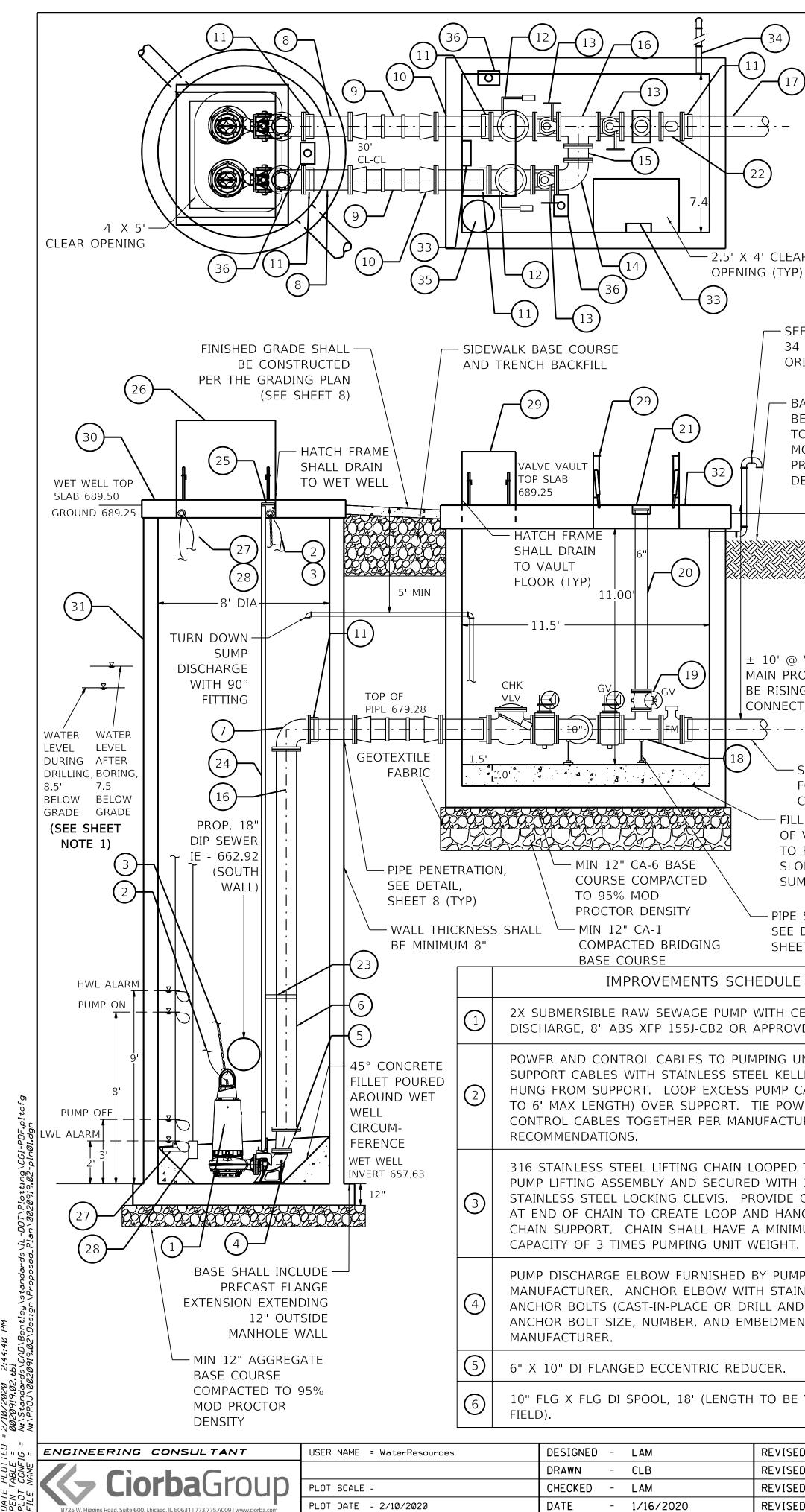
A. WEEKLY

- Visually inspect the station for vandalism and security.
- Record pump hours for each pump. Review control panel alarm history.
- 4. Run each pump in hand mode and observe level control for proper
- operation. Visually inspect standby generator for fuel level and operation readiness.

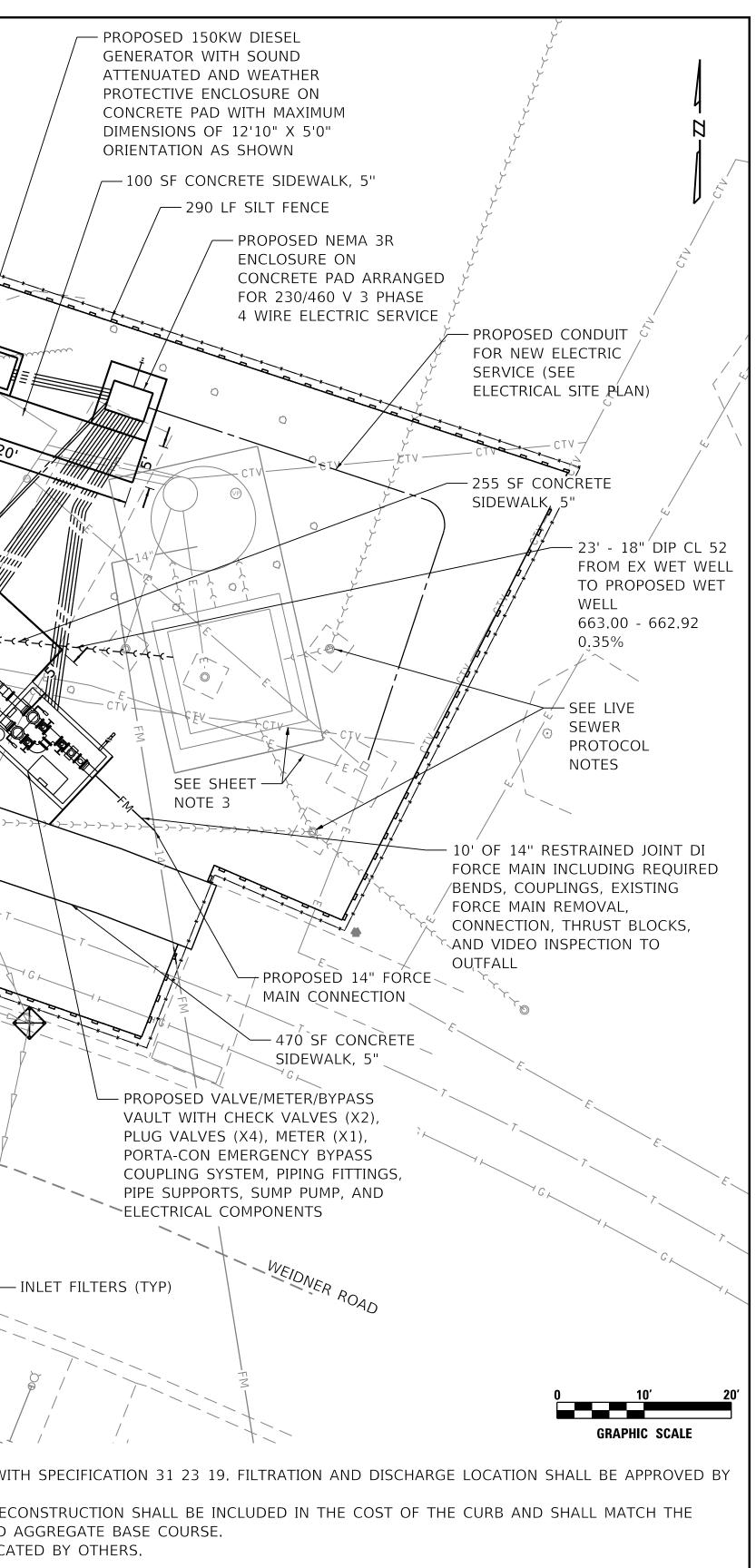
B. MONTHLY

- Open up wet well and visually inspect the pumping of each pump.
- Completely pump down the wet well to its lowest point and make a visual inspection.
- Check wet well floats and transducer for rage build up, clean as needed. 4. Exercise generator.
- C. QUARTERLY
- Clean grit and grease from the wet well using a vac truck.
- Operate generator under load for 15 minutes by tripping station power.
- Observe for successful transfer to generator power. Operate emergency portable generator.





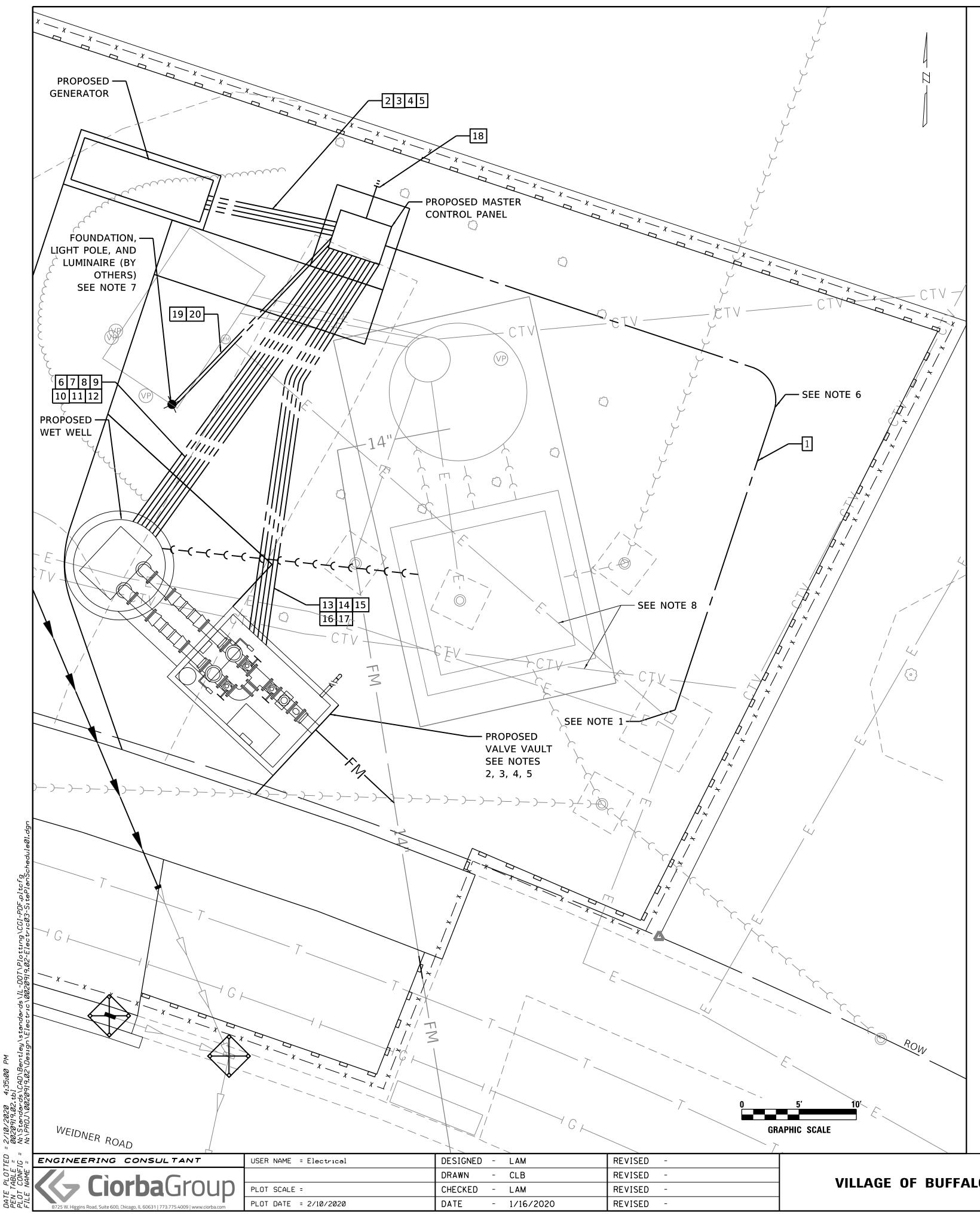
	$\overline{7}$	10"	IMPROVEMENTS SCHEDULE (CONT.) DI FLANGED ELBOW.	SEE EXISTING CONDITION
$\mathbf{)}$	(8)		FLG X FLG DI SPOOL, 2'-2" (LENGTH TO BE VERIFIED IN FIELD).	AND DEMOLITION PLAN FOR APPROXIMATE LIMITS OF
/	9		FLEXIBLE EXPANSION JOINT, EBAA IRON OR APPROVED EQUAL.	CONSTRUCTION TO BE FENCED WITH 6' SECURITY
			FLG X PE DI SPOOL, 2'-0"(LENGTH TO BE VERIFIED IN FIELD).	FENCE AND LOCKED GATE
			RESTRAINED MJ X FLG ADAPTER.	PROPOSED DUPLEX SUBMERSIBLE
			SWING CHECK VALVE WITH OUTSIDE LEVEL AND WEIGHT.	PRECAST WET WELL WITH FLAT
	(13)		PLUG VALVE WITH HANDWHEEL ACTUATOR.	BACK UP LEVEL FLOAT SYSTEM, AND ALL ELECTRICAL /
.R			DI 90° FLANGED ELBOW ON PIPE SUPPORT.	MECHANICAL APPURTENANCES
)			FLG X FLG DI PIPE SPOOL , 0'-8" (LENGTH TO BE VERIFIED IN	
E NOTE FOR	(15) (16)		D) ON PIPE SUPPORT. DI FLANGED EQUAL TEE ON PIPE SUPPORT.	
RIENTATION			PE X PE PIPE SPOOL TO FORCE MAIN FITTING.	
ACKFILL SHALL			X 6" DI FLANGED TEE ON PIPE SUPPORT.	INLET, TYPE'A
E COMPACTED O 90%	(19)		PLUG VALVE ON BYPASS LINE WITH HANDWHEEL ACTUATOR.	RIM = 688.25 $INV = 685.25$
IODIFIED ROCTOR			DI BYPASS PIPE SPOOL, 8'-9" (LENGTH TO BE VERIFIED IN FIELD)	49' 8" PVC
ENSITY (MIN.)	20		H FLANGED END AND PORTA-CON BYPASS CONNECTION.	
 >>>>>	21		TA-CON EMERGENCY BYPASS PUMP COUPLING SYSTEM, PART# 06, AS MANUFACTURED BY PRECISION SYSTEMS.	55° SY C_{T_V}
	22	TO MET	MAGNETIC FLOW METER. FURNISH FLANGED ND SPOOL (LENGTH MATCH LENGTH OF FLOW METER) TO BE INSTALLED WHEN TER IS REMOVED FOR SERVICE. CONTRACTOR TO SET PIPE OL IN PLACE TO VERIFY FIT, THEN REPLACE WITH FLOW METER.	NEW HMA DRIVEWAY 10' SUMP PUMP DISCHARGE PIPE
VAULT FORCE OFILE SHALL	23	AT	ERMEDIATE GUIDE RAIL SUPPORT, 316 SS, SPACED VERTICALLY 8' INTERVALS, ATTACH TO PIPE PER MANUFACTURERS CIFICATION.	DISCHARGE PIPE 1-1/2" PVC SDR 26 SDR 26
g to TION POINT - —	24		EDULE 40 316 STAINLESS STEEL PIPE GUIDE RAILS FOR MERSIBLE PUMP, PER MANUFACTURERS SPECIFICATIONS.	
SEE SHEET 10	25		ER GUIDE RAIL SUPPORT ALL 316 STAINLESS STEEL. ATTACH CONCRETE WITH 316 STAINLESS STEEL EPOXY ANCHORS.	
FOR PROFILE CONTINUATION _ BOTTOM 1' VALVE VAULT	26	ALU	ING ASSIST DOUBLE LEAF ACCESS HATCH, ALUMINUM WITH MINUM DIAMOND PLATE AND FALL PROTECTION PER PROJECT CIFICATIONS. MINIMUM CLEAR OPENING SHALL BE 3.7' X 5.3'.	27 SY DRIVEWAY REPLACEMENT
FORM SUMP. DPE FLOOR TO MP CORNER. SUPPORT,	27	LB BOT WIR	' DIAMETER, 304 STAINLESS STEEL WIRE ROPE ATTACHED TO 15 PVC COATED WEIGHT. LOCATE APPROXIMATELY 12" FROM TOM OF WET WELL. ATTACH BACKUP FLOAT SWITCH CABLES TO E ROPE AT LEVELS SPECIFIED WITH NYLON TIES. PROVIDE DSED LOOP AT TOP OF WIRE ROPE FOR SUPPORT HOOK.	22 LF DEPRESSED CURB AND GUTTER REPLACEMENT PAVEMENT REPLACEMENT
DETAIL, ET 8	28	ROF	TER LEVEL PRESSURE TRANSDUCER, 304 STAINLESS STEEL WIRE PE ATTACHED TO 15 LB PVC COATED WEIGHT. PROVIDE CLOSED OP AT TOP OF WIRE ROPE FOR SUPPORT HOOK.	(SEE SHEET NOTE 2) INLET, TYPE A TYPE 10 GRATE RIM = 687.86
ENTER 'ED EQUAL.	29	DIA	ING ASSIST ACCESS HATCH, ALUMINUM WITH ALUMINUM MOND PLATE PER PROJECT SPECIFICATIONS. MINIMUM CLEAR INING SHALL BE 2.5' X 4'.	INV = 685.36 (E)
INIT, LEMS GRIPS CABLE (3' MIN	30		V HS-20 LOAD RATED 10" PRECAST WET WELL FLAT TOP SLAB. TING SHALL BE COORDINATED WITH PUMP SUPPLIER.	
VER AND JRERS	31		V 8' DIAMETER WET WELL WITH EXTERIOR ASPHALT EMULSION	
THROUGH	32	NEV	V VALVE VAULT PER DETAIL, SHEET 10.	
316 CONNECTOR IG FROM IUM RATED	33	STE	WIDE COPOLYMER PLASTIC STEPS WITH CONTINUOUS 1/2 INCH EL REINFORCEMENT, SPACED VERTICAL AT 16" FROM HATCH ILT TO FLOOR.	SHEET NOTES 1. DEWATERING SHALL BE IN ACCORDANCE WITHE VILLAGE. 2. PAVEMENT REPLACEMENT DUE TO CURB RE
P NLESS STEEL D EPOXY). NT PER PUMP	34	DEC ANE GRA	THREADED GALVANIZED STEEL VENT WITH LONG RADIUS 90 GREE FITTINGS FOR GOOSENECK DOWNWARD TURNING OUTLET O STAINLESS STEEL INSECT SCREEN 2-FEET ABOVE FINISHED ADE. SAND, CLEAN, AND APPLY PRIMER AND TOP COAT OF BLACK OT PREVENTION PAINT.	DEPTH OF THE GUTTER FLAG ON A PREPARED 3. COMED AND COMCAST LINES TO BE RELOCA LIVE SEWER PROTOCOL NOTES 1. THE CONTRACTOR SHALL SUBMIT A BYPASSI
NI PER PUMP	35	CAS	T IRON, ANTI CLOG VORTEX IMPELLER SUMP PUMP WITH 1-1/2" CHARGE PIPING TO WET WELL.	2. THE VILLAGE HAS THE ABILITY TO TEMPORA HOURS. TEMPORARY SURCHARGE TIMES SHALL EVENT.
VERIFIED IN	36	3X	4" FLUSH MOUNT DAVIT AND HEAVY DUTY SLEEVE CAP CAST	PUMP OPERATING NOTE
		INT	O CONCRETE SLAB	BOTH PUMPS MAY NOT BE OPERATING AT THE RANDOM UNANNOUNCED INSPECTION AND TES
D - D -				CHATHAM LIFT STATION
D -			VILLAGE OF BUFFALO GROVE	PROPOSED LIFT STATION I
D -				SCALE: SHEET NO. 5 OF 12 SHEETS



SING PUMP PLAN TO THE VILLAGE FOR APPROVAL PRIOR TO MOBILIZATION. ARILY SURCHARGE THE UPSTREAM SEWER SYSTEMS FOR AN APPROXIMATE MAXIMUM OF 4 L BE PREVIOUSLY APPROVED BY THE VILLAGE AND SHALL NOT OCCUR 2 DAYS AFTER RAIN

SAME TIME. MWRD PERSONNEL SHALL HAVE UNRESTRICTED ACCESS TO THE LIFT STATION FOR STING.

	RECONSTRU	JCTION			COUNTY	TOTAL SHEETS	SHEET NO.
PLAN AND DETAILS					СООК	12	5
S	STA.	TO STA.		ILLINOIS			



SCHEDULE OF CONDUIT AND CABLE

				CONDU	IT	POWER (P) /	
TAG	FROM	ТО	QTY.	SIZE	MATL.	CONTROLS (C)	CABLE
1	COMED TRANSFORMER	MCP (METER)	1	3"	PVC	Р	4-1/C #3/0
2	STANDBY GENERATOR	МСР	1	3"	RGS	Р	4-1/C #3/0 & 1/C #3/0 GROUND
3	STANDBY GENERATOR	МСР	1	1"	RGS	Р	CABLE PER MANUFACTURER (BATTERY CHARGER)
4	STANDBY GENERATOR	МСР	1	1"	RGS	Р	CABLE PER MANUFACTURER (BLOCK HEATER)
5	STANDBY GENERATOR	МСР	1	1"	RGS	С	CABLE PER MANUFACTURER (CONTROLS)
6	PUMP 1	МСР	1	2"	RGS	Р	4-1/C #2 & 1/C #4 GROUND
7	PUMP 2	МСР	1	2"	RGS	Р	4-1/C #2 & 1/C #4 GROUND
8	LEVEL TRANSDUCER	МСР	1	1"	RGS	С	CABLE PER MANUFACTURER
9	FLOATS	МСР	1	2"	RGS	С	CABLES PER MANUFACTURER
10	HATCH LIMIT SWITCH	МСР	1	1"	RGS	С	2-1/C #12 & 1/C #12 GROUND
11	SPARE WET WELL	МСР	1	1"	RGS	Р	NA
12	SPARE WET WELL	МСР	1	2"	RGS	NA	NA
13	МСР	RECEPTACLE/SUMP PUMP	1	1"	RGS	Р	3-1/C #12 & 1/C #12 GROUND
14	МСР	LIGHT	1	1"	RGS	Р	2-1/C #12 & 1/C #12 GROUND
15	FLOW METER	МСР	2	1"	RGS	С	CABLE PER MANUFACTURER
16	FLOAT SWITCH/HATCH LIMIT SWITCHES	МСР	1	1"	RGS	С	3-1/C #12 & 1/C #12 GROUND
17	SPARE VALVE VAULT	МСР	1	1"	RGS	Р	NA
18	МСР	SITE GROUNDING ELECTRODE SYSTEM	1	1"	RGS	Р	#2/0 TINNED BARE STRANDED COPPER
19	МСР	LIGHT POLE	1	1"	RGS	Р	BY OTHERS
20	МСР	LIGHT POLE	1	1"	RGS	Р	BY OTHERS

NOTES:

1) THE CONTRACTOR SHALL PROVIDE AND COIL 15' OF SLACK AT THE TRANSFORMER FOR CONNECTION BY COMED PERSONNEL.

2) PROVIDE A DUPLEX RECEPTACLE WITHIN THE VALVE VAULT. EACH RECEPTACLE SHALL BE ON A SEPERATE CIRCUIT. RECEPTACLES SHALL BE MOUNTED IN A BOX WITH A GASKETED AND WEATHERPROOF CAST METAL COVER PLATE AND CAP OVER EACH RECEPTACLE OPENING. CAPS SHALL BE PERMANENTLY ATTACHED TO THE COVER PLATE BY MEANS OF A SPRING HINGED CAP.

3) VALVE VAULT LUMINAIRE SHALL BE A LED TYPE, CORROSION RESISTANT, EXPLOSION PROOF AND SHALL BE WALL OR CEILING MOUNTED. LUMINAIRE SHALL BE CONTROLLED BY AN EXPLOSION PROOF, WALL MOUNTED TOGGLE SWITCH.

4) JUNCTION BOX SHALL BE 316 STAINLESS STEEL WATERTIGHT, 20"x16"x8", N.E.M.A. 4X.

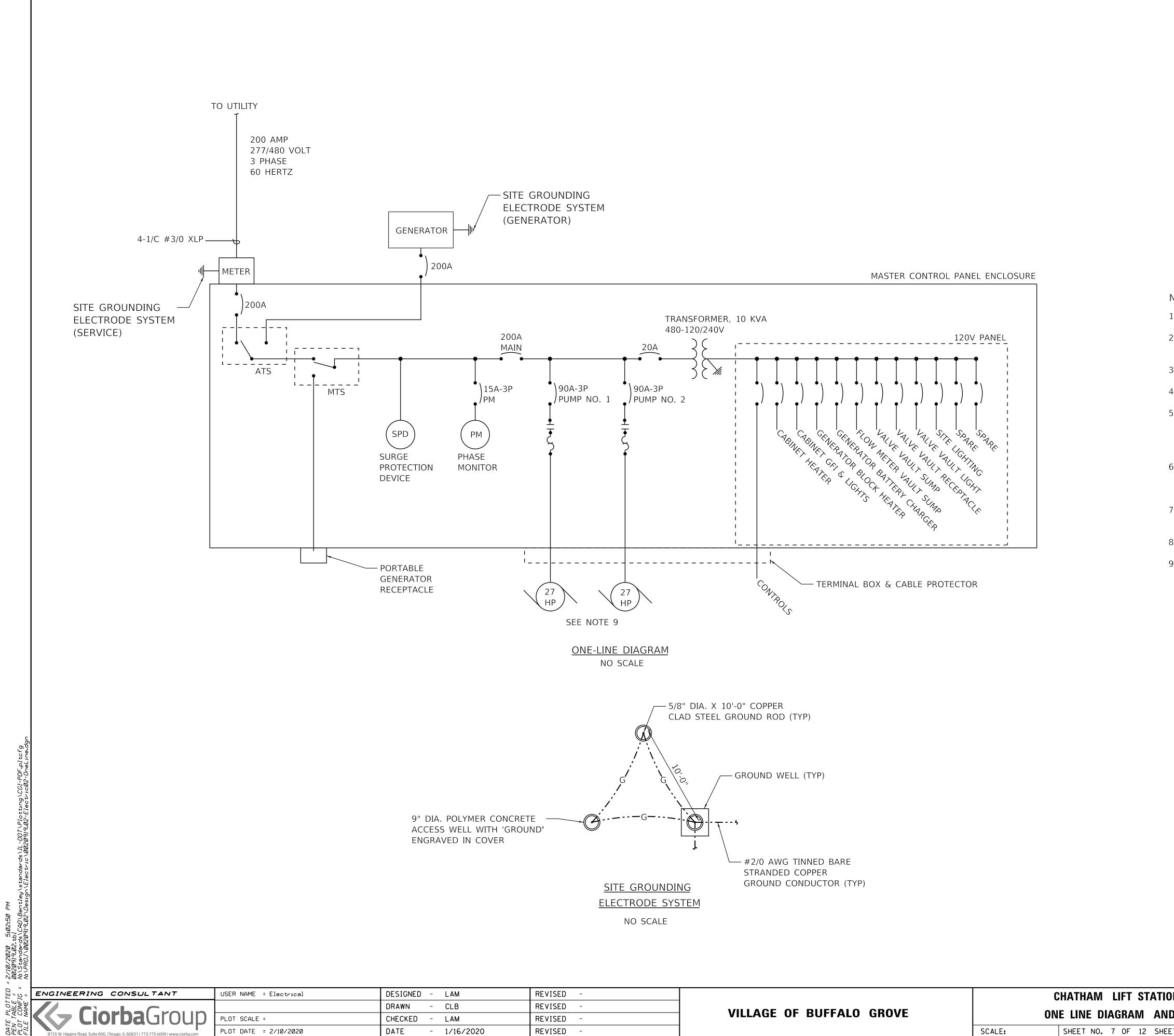
5) CONDUIT ENTRIES INTO JUNCTION BOX SHALL BE FILLED WITH DUCT PUTTY.

6) SERVICE DUCT SHALL HAVE A MINIMUM OF 36" COVER.

7) POLE LOCATION TO BE DETERMINED BY THE VILLAGE. STUB CONDUIT AND MARK LOCATION WITH A 2" X 4" POST.

8) COMED AND COMCAST LINES TO BE RELOCATED BY OTHERS.

,		0	HATHAM LIFT STATION RECONSTRU	CTION		COUNTY	TOTAL SHEETS	SHEET NO.
	VILLAGE OF BUFFALO GROVE	ELECTRICAL SITE PLAN AND SCHEDULE				СООК	12	6
			1					
		SCALE:	SHEET NO. 6 OF 12 SHEETS STA.	TO STA.	ILLINOIS			



DING	
SYSTEM	
)	

MASTER	CONTROL	PANEL	ENCLOSURE

SED -			CHATHAM LIFT STATION RECONSTRUCTION		COUNTY	TOTAL SHEET	
SED -	VILLAGE OF BUFFALO GROVE	ONE LINE DIAGRAM AND ELECTRICAL DETAILS			СООК	12 7	1
SED -	VILLAGE OF BUFFALD GNOVE						
SED -		SCALE:	SHEET NO. 7 OF 12 SHEETS STA. TO STA	Α.	ILLINOIS		

NOTES

1. ALL COMPONENTS AND ASSEMBLIES SHOWN ARE NEW UNLESS NOTED.

2. CONTRACTOR TO COORDINATE WITH COMED PRIOR TO ANY WORK ON EXISTING ELECTRICAL SERVICE.

3. ALL ELECTRICAL COMPONENTS SHALL BE NEMA 4X RATED.

4. ALL PENETRATIONS IN STRUCTURES SHALL BE SEALED COMPLETELY.

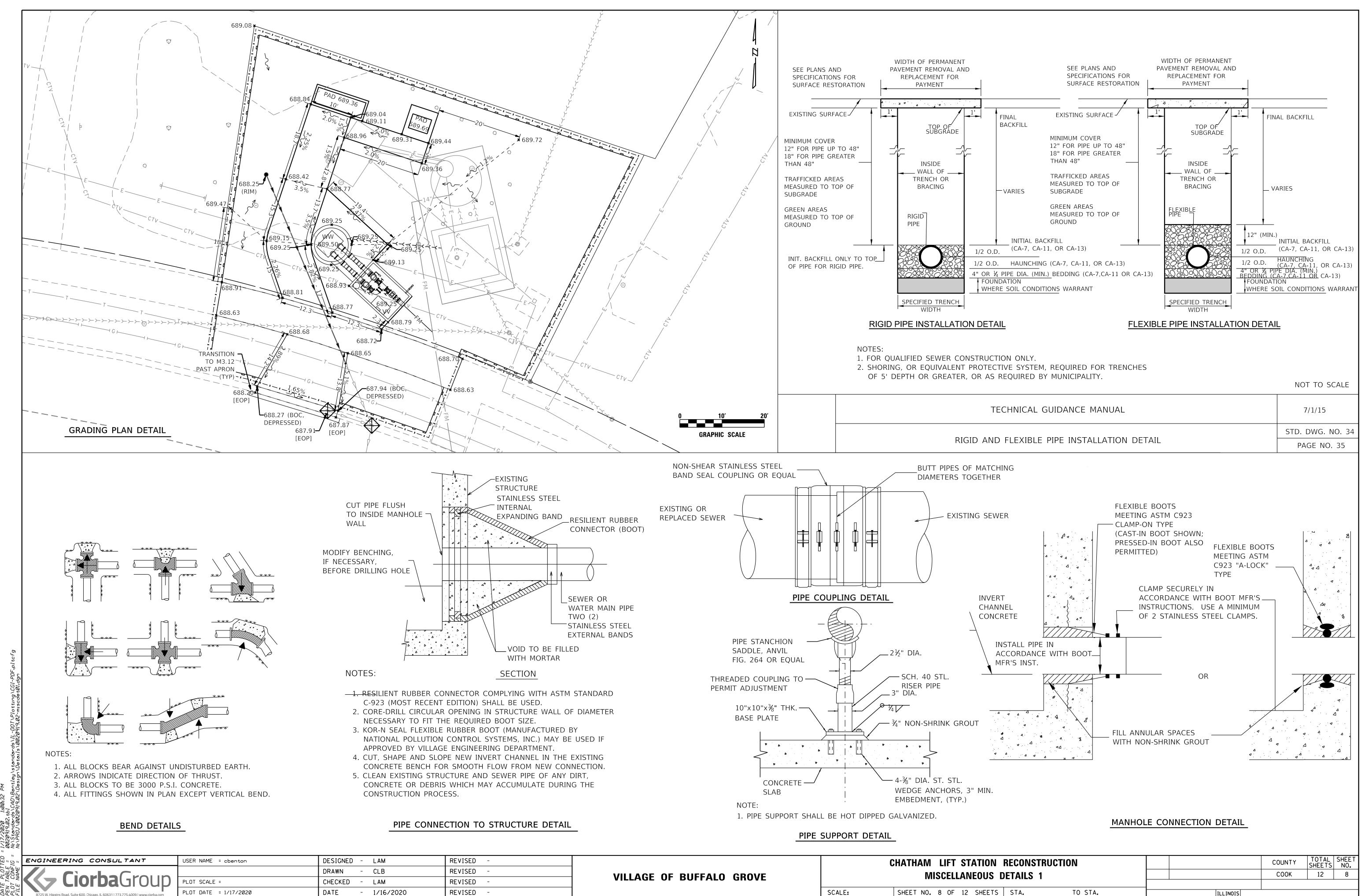
5. INSTALLATION OF ELECTRICAL SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF THE 2020 NATIONAL ELECTRICAL CODE, NATIONAL ELECTRICAL SAFETY CODE, OCCUPATIONAL SAFETY AND HEALTH ACT, APPLICABLE LOCAL CODES AND REGULATIONS.

6. EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH 2017 NATIONAL ELECTRICAL CODE, NATIONAL ELECTRICAL SAFETY CODE, AND RELATED CODES.

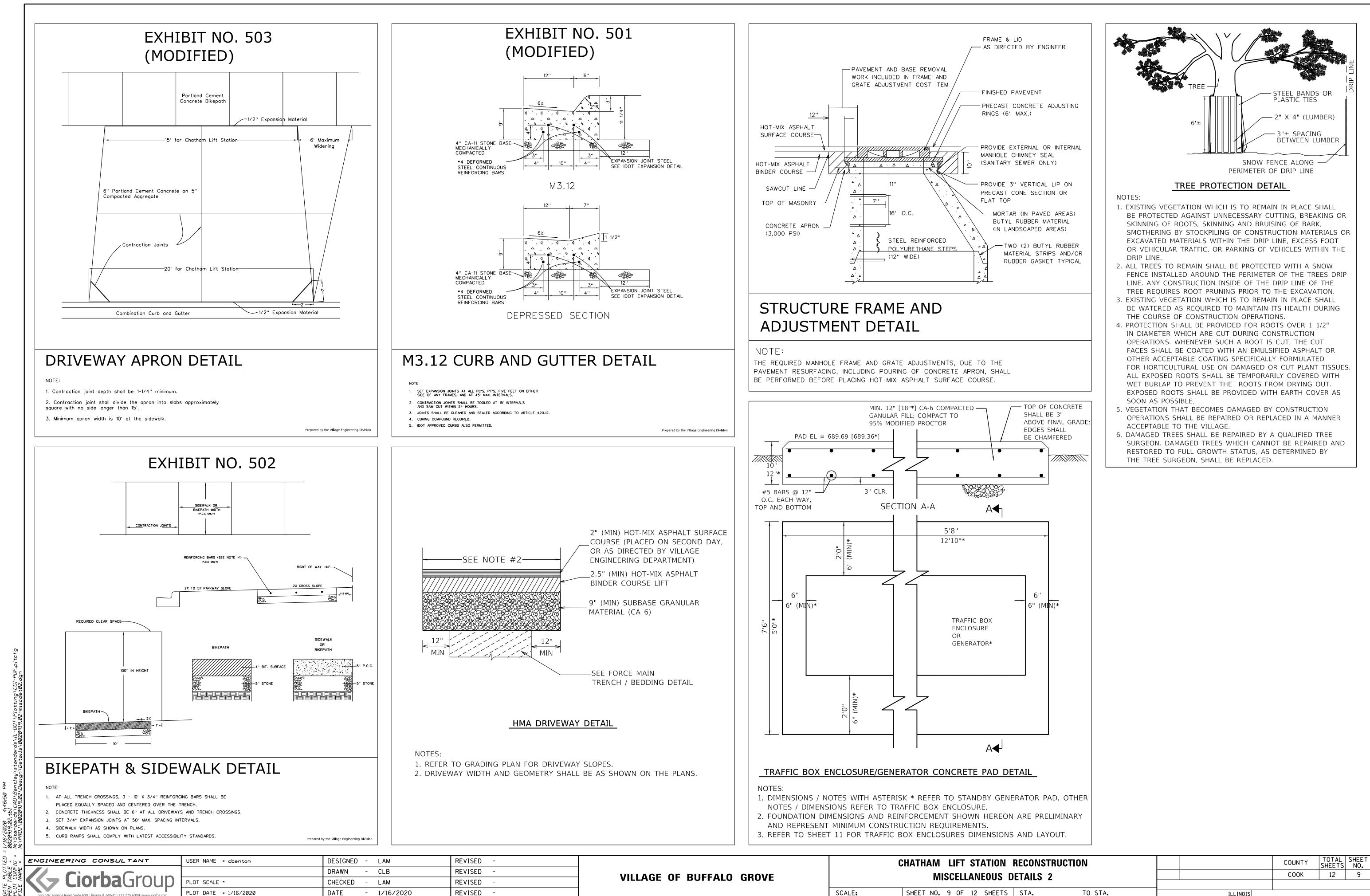
7. CONDUIT PENETRATIONS SHALL BE MADE THROUGH THE BOTTOM OF FOUNDATION ONLY.

8. ALL BREAKERS SHALL BE 20A UNLESS OTHERWISE NOTED.

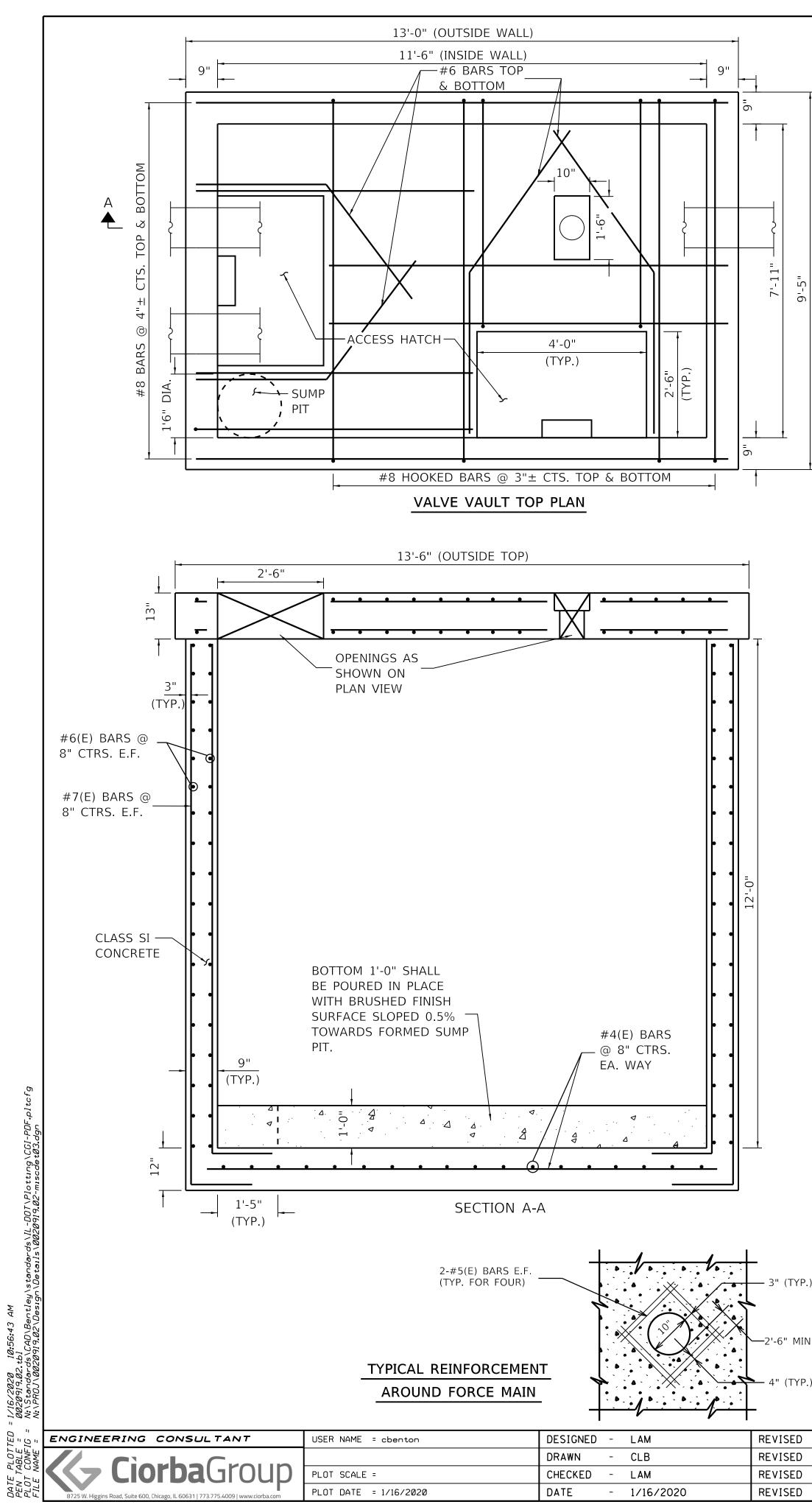
9. BOTH PUMPS MAY NOT BE OPERATING AT THE SAME TIME. MWRD PERSONNEL SHALL HAVE UNRESTRICTED ACCESS TO THE LIFT STATION FOR RANDOM UNANNOUNCED INSPECTION AND TESTING.

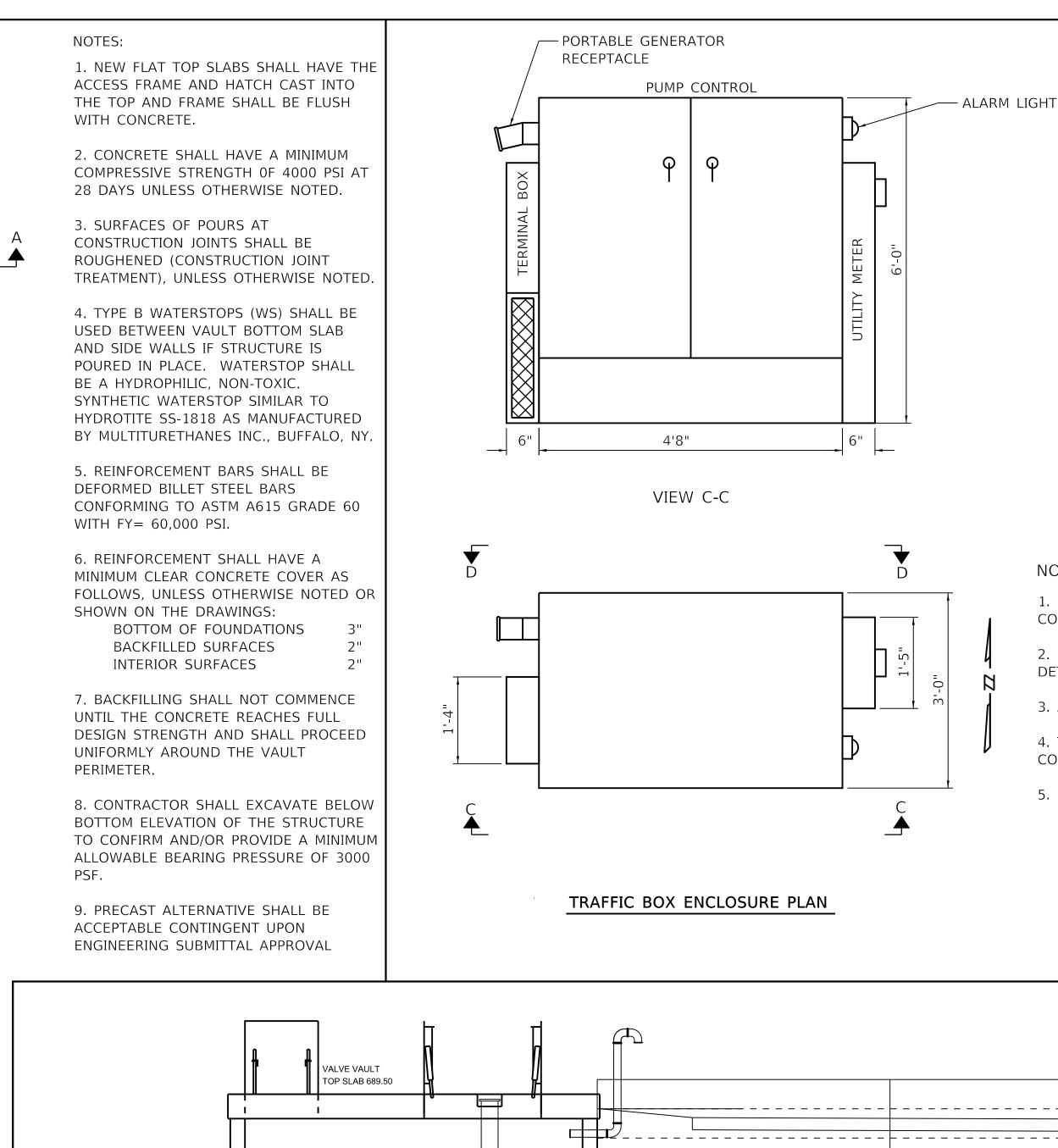


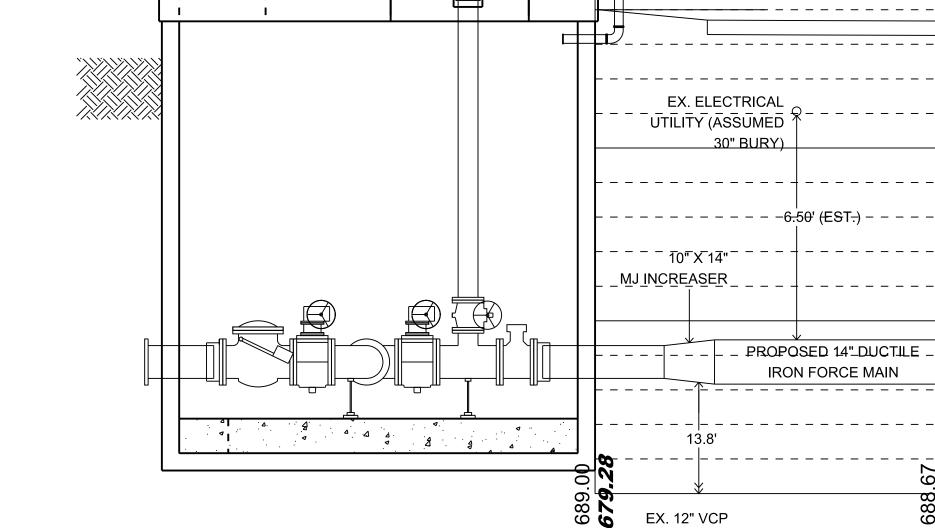
) –			CHATHAM LIFT STATION			
) –	VILLAGE OF BUFFALO GROVE		MISCELLANEOUS			
) –			MISCELLANEOOS			
) –		SCALE:	SHEET NO. 8 OF 12 SHEETS			



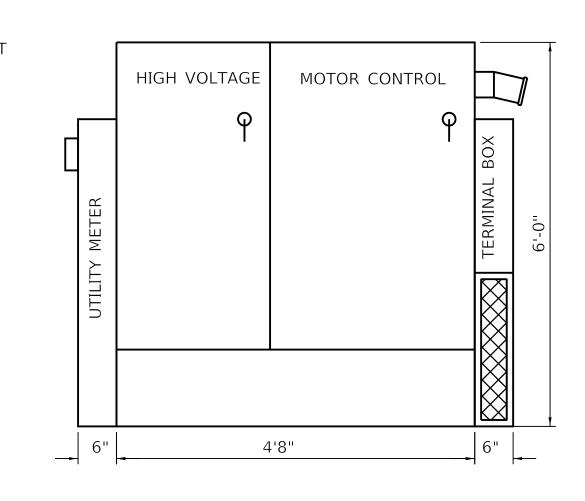
	-	VILLAGE OF BUFFALO GROVE	MISCELLANEOU
- SCALE: SHEET NO. 9 OF 12 SHE	-		SCALE: SHEET NO. 9 OF 12 SHE

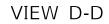






ED -			CHATHAM LIFT STATION	
ED -		MISCELLANEOUS		
ED -	VILLAGE OF BUFFALO GROVE		WISCLLANLOUS L	
ED -		SCALE:	SHEET NO. 10 OF 12 SHEETS	





NOTES:

688 **679**

0+10

EX. 12" VCP

SAN. SEWER

STA. 0+03

TP = 665.03

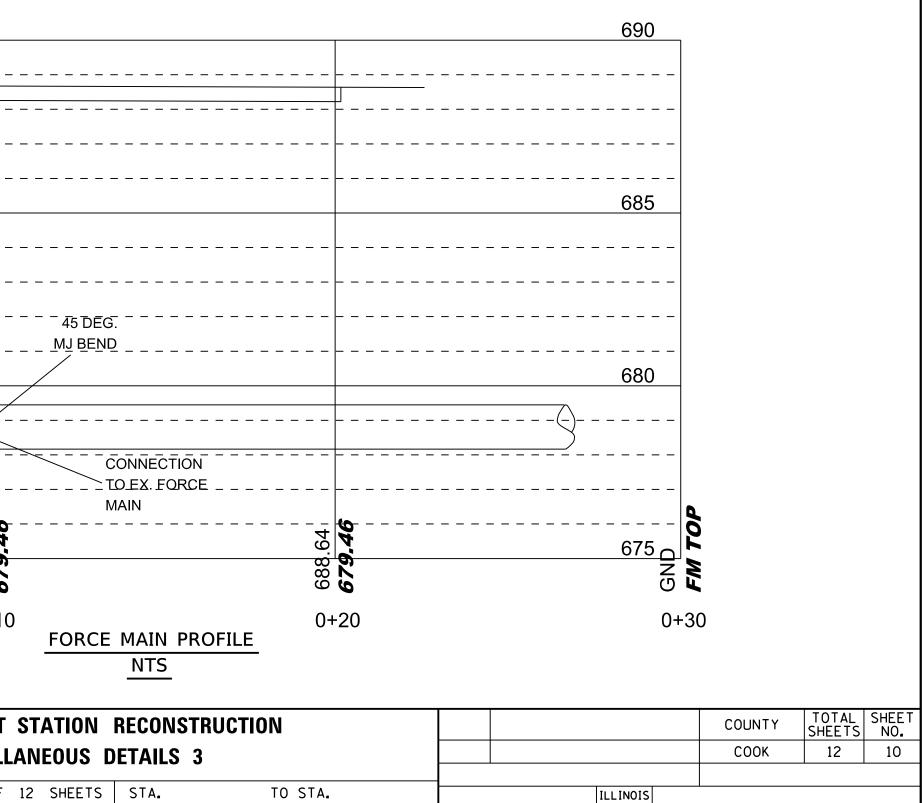
1. REFER TO CONDUIT PLAN FOR SCHEDULES AND LOCATION OF INTERFACING CONDUIT.

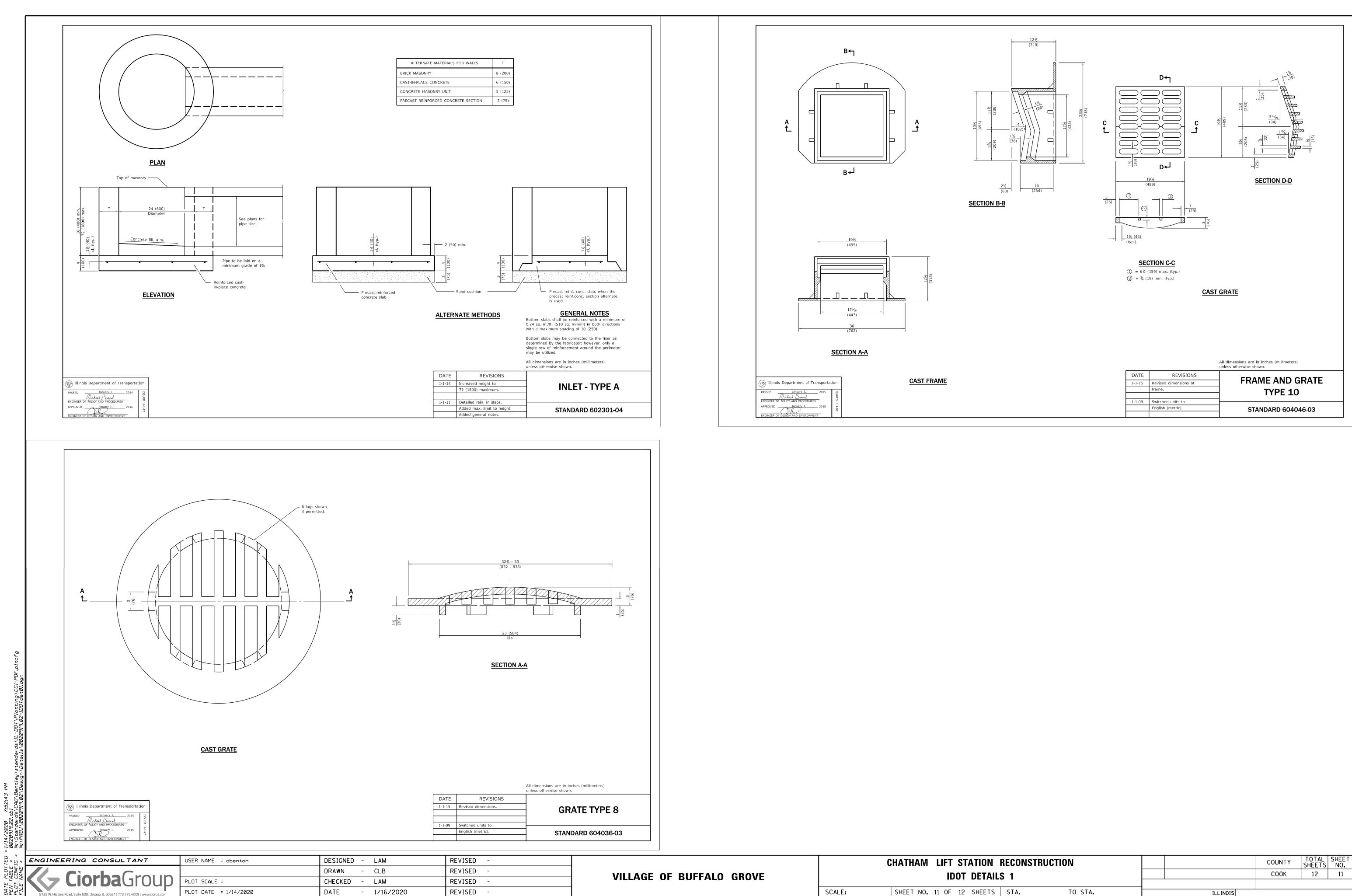
2. REFER TO TRAFFIC BOX ENCLOSURE PAD DETAIL FOR DIMENSIONS AND DETAIL.

3. ALL CONDUIT INTO BOX SHALL BE BOTTOM FED.

4. TRAFFIC BOX TO BE AS COMPACT AS POSSIBLE. CONTRACTOR SHALL COORDINATE OVERALL SIZE AS REQUIRED.

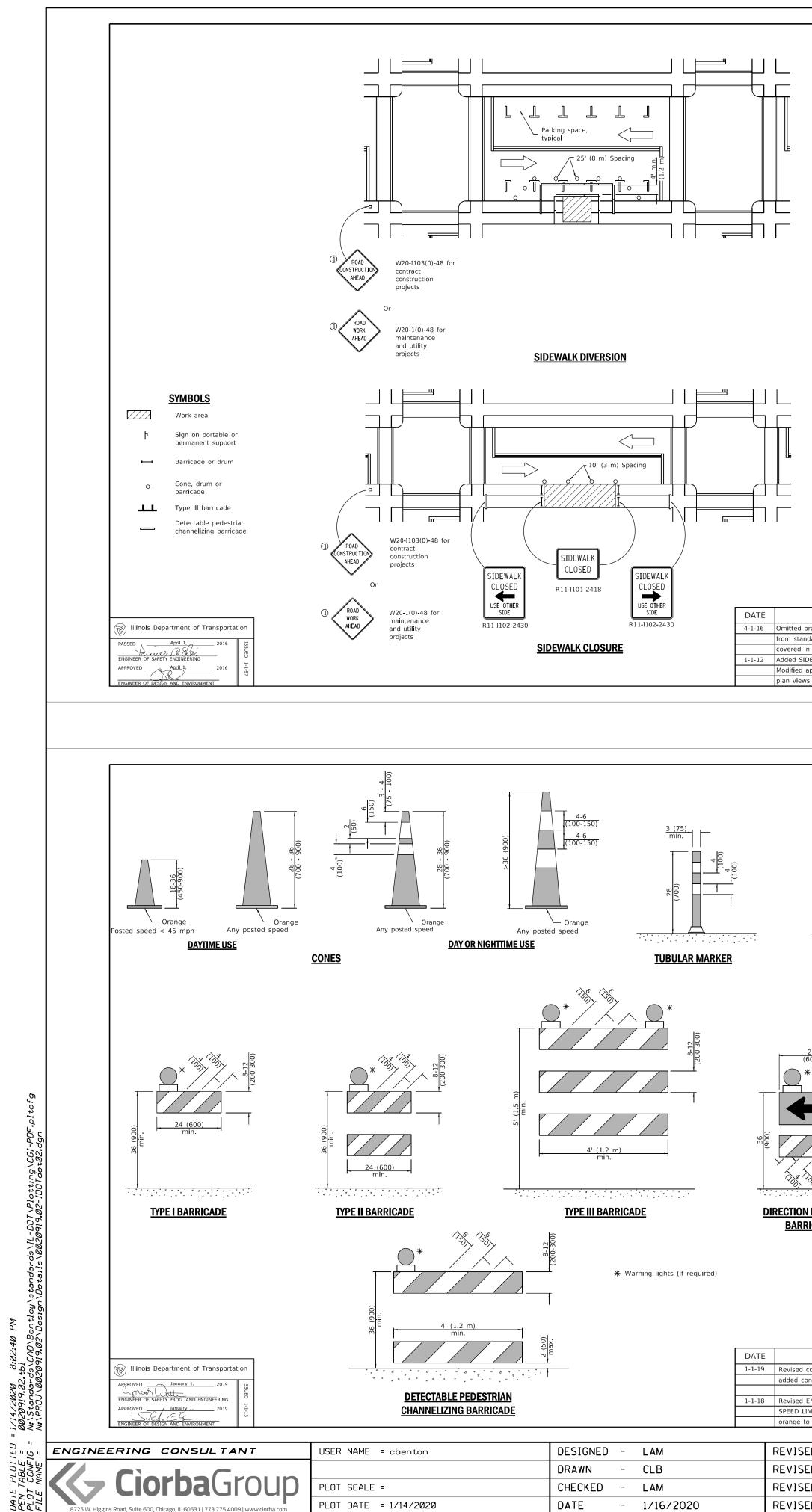
5. SEE SITE PLAN FOR ORIENTATION.





-	VILLAGE OF BUFFALO GROVE		CHATHAM LIFT STATION F IDOT DETAILS
-		SCALE:	SHEET NO. 11 OF 12 SHEETS

RECONSTRUCTION					COUNTY	TOTAL SHEETS	SHEET NO.	
Ľ	S 1					СООК	12	11
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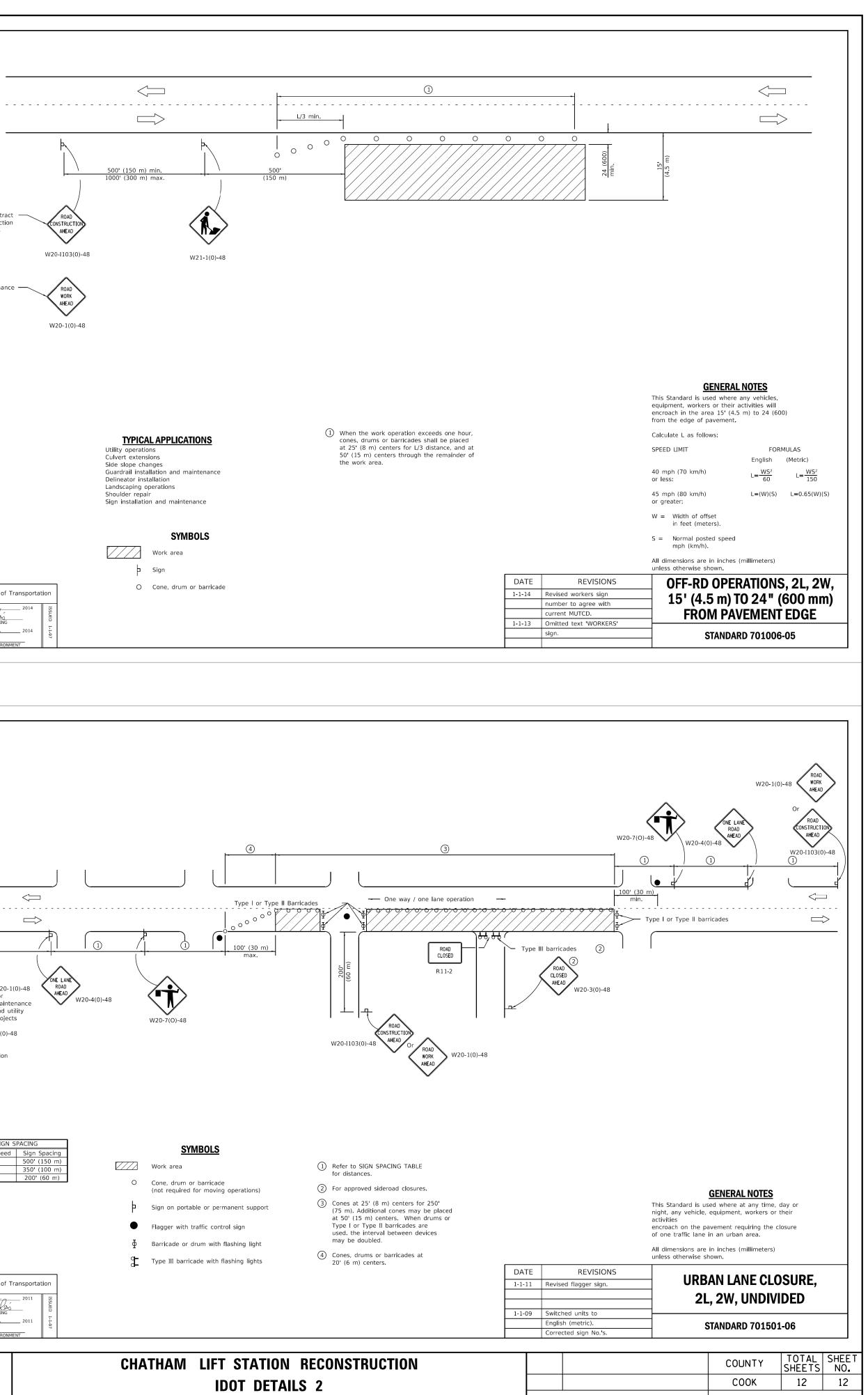


(road work traffic control.			<u> </u>
				500' (150 m) min. 1000' (300 m) max. (150 m)
				1000' (300 m) max. (150 m)
			For contr construct projects	
			projects	W20-1103(0)-48 W21-1(0)-48
				W21-1(0)-48
			For maintena and utility projects	ance ROAD WORK AHEAD
				W20-1(0)-48
	GENERAL NOTES			
I	rraffic must be rerouted due to work being serformed. This Standard must be used in conjunction with			
	other Traffic Control & Protection Standards when roadway traffic is affected.			
;	Temporary facilities shall be detectable and accessible. The temporary pedestrian facilities shall be			TYPICAL APPLICATIONS
	provided on the same side of the closed facilities whenever possible. The SIDEWALK CLOSED / USE OTHER SIDE sign shall be			Utility operations Culvert extensions Side slope changes
	olaced at the nearest crosswalk or intersection co each end of the closure. Where the closure occurs at a corner, the signs shall be erected on			Guardrail installation and maintenance Delineator installation Landscaping operations Shoulder repair
	the corners across the street from the closure. The SIDEWALK CLOSED signs shall be used at the ends of the actual closures.			Sign installation and maintenance
I	Type III barricades and R11-2-4830 signs shall be positioned as shown in "ROAD CLOSED TO ALL TRAFFIC" detail on Standard 701901.			SYMBOLS
	All dimensions are in inches (millimeters) unless otherwise shown.			Work area
REVISIONS orange safety fence	SIDEWALK, CORNER OR		Illinois Department o	of Transportation
indard as this is in the std. spec. IDEWALK DIVERSION.	CROSSWALK CLOSURE (Sheet 1 of 2)		PASSED January 1. Aurille Q. Sha ENGINEER OF SAFETY ENGINEERIM	NG
appearance of ws. Renamed Std.	STANDARD 701801-06		APPROVED January 1, ENGINEER OF DESIGN AND ENVIR	2014 L KONMENT L
		7		
<u>8-12</u> (200-300)	> <u>18 (450)</u> min.			
) 24 (600) min.				
4	^m ^e 4-6 (100-150)			(4)
······································				
VERTICAL PANE				Type I or Type II Barr
POST MOUNTED			 	
				(1) (1) (1) (30 m) max.
			ROAD	20-1(0)-48 ONE LANE ROAD
24 (600) *			WORK W2 AHEAD For ma	
			ROAD Pro CONSTRUCTION W20-1103(vjects W20-7(O)-48
(300)			AHEAD For contract construction projects	nc
(200)	38 900)		projecti	
Toly .				
N INDICATOR	VERTICAL BARRICADE			
RICADE			Posted Spe 55	500' (150 m)
			50-45 <45	350' (100 m) V/// Work area 200' (60 m) O Cone, drum or barricade (not required for moving operations)
	GENERAL NOTES			Sign on portable or permanent support
	All heights shown shall be measured above the pavement surface.			 Flagger with traffic control sign Barricade or drum with flashing light
	All dimensions are in inches (millimeters) unless otherwise shown.	_		Type III barricade with flashing lights
REVISIONS cone usage and cones >36" (900 m) height.	TRAFFIC CONTROL DEVICES		Illinois Department o	
END WORK ZONE	(Sheet 1 of 3)	-	PASSED January I. Humel Of ENGINEER OF SAFETY ENGINEERIN APPROVED January I.	2011 IS UNDER STORE STOR
LIMIT sign from to white background.	STANDARD 701901-08		ENGINEER OF DESIGN AND ENVIR	
ED -		L	1	CHATHAM LIFT STATION
ED -		AGE OF BUFFALC	GROVE	IDOT DETAILS
ED -				SCALE: SHEET NO. 12 OF 12 SHEETS

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