

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	N/A	DUPAGE	18	1
		ILLINOIS	CONTRACT NO.	

# VILLAGE OF VILLA PARK, ILLINOIS

## SECOND AVENUE COMBINED SEWER SEPARATION PROJECT

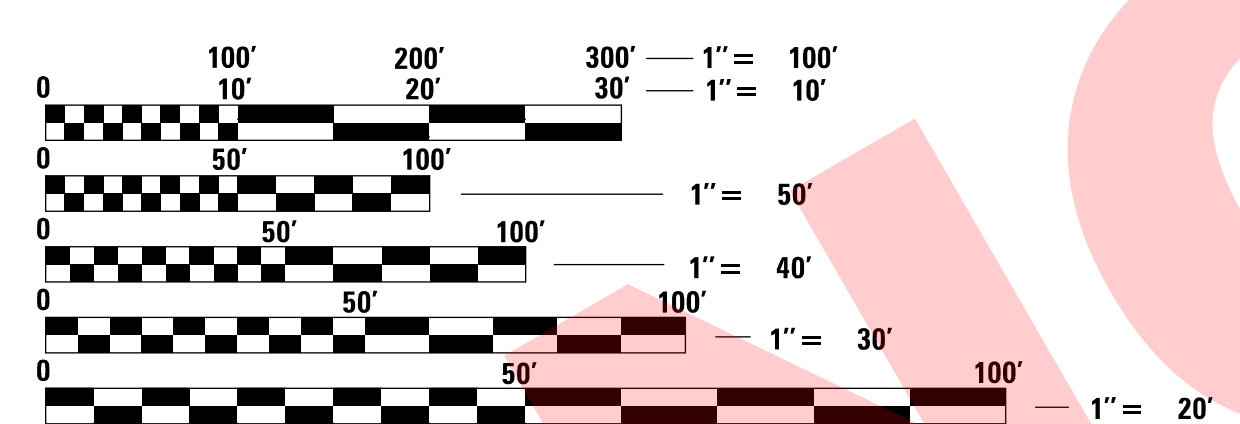
### DUPAGE COUNTY, ILLINOIS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

**THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL AS SUPERVISION/DIRECTION AND MEANS/METHODS OF CONSTRUCTION**

**SCALES**

- PLAN 1" = 20'
- PROFILE HORIZ. 1" = 20'
- PROFILE VERT. 1" = 5'



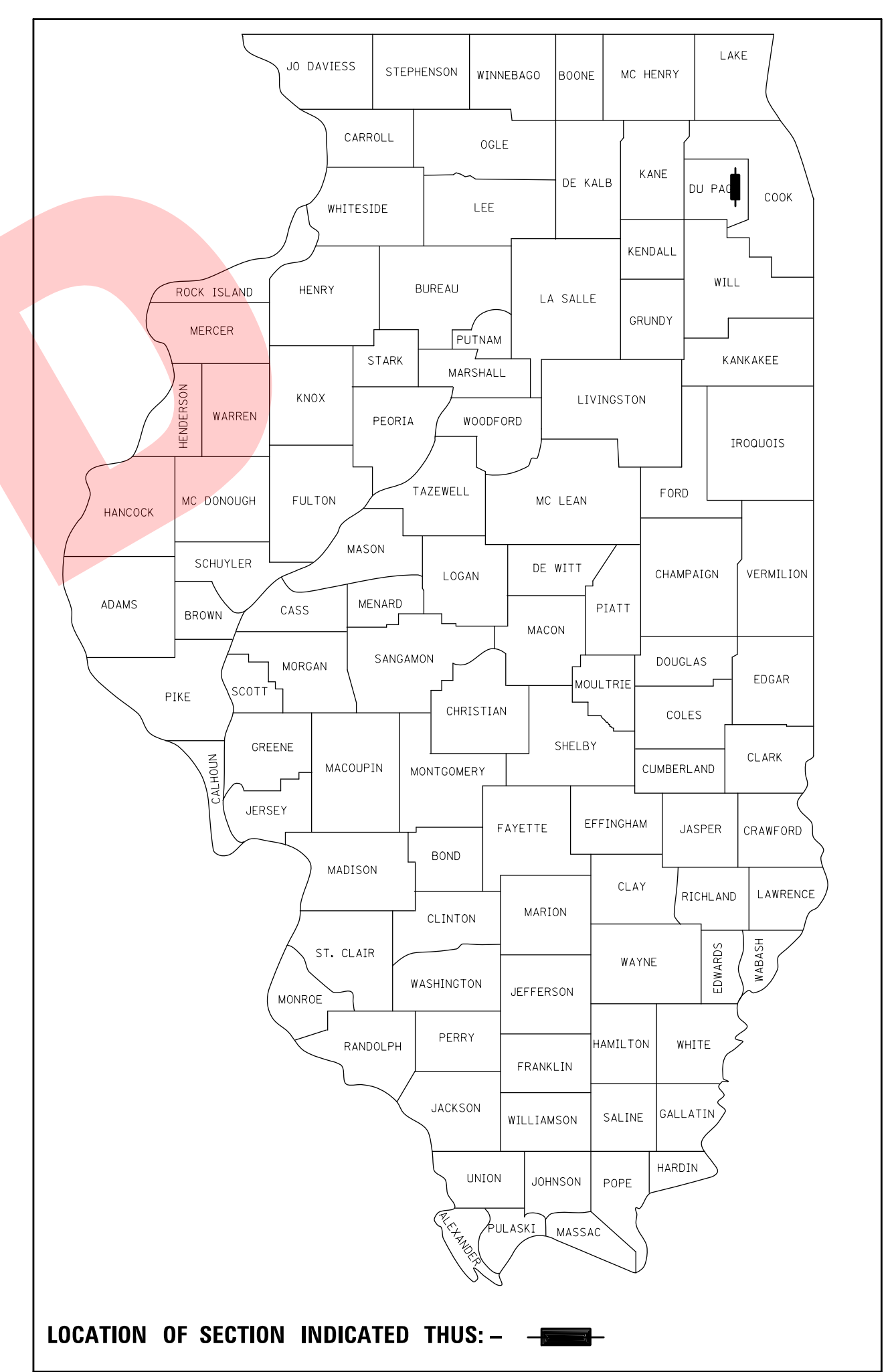
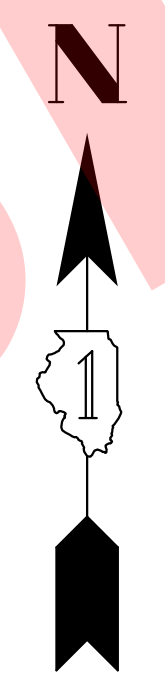
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

**J.U.L.I.E.** CALL JULIE 811 WITH THE FOLLOWING:  
 COUNTY DUPAGE  
 CITY-TOWNSHIP VILLA PARK  
 48 HOURS BEFORE YOU DIG.  
 EXCLUDING SAT., SUN., & HOLIDAYS



**R 11E**

— PROJECT LOCATION  
 GROSS LENGTH = 1102.46 FT. = 0.21 MILES  
 NET LENGTH = 1102.46 FT. = 0.21 MILES



**ANDREW M. PUFUNDT**  
 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS  
 062-061729  
 DATE: 6/13/2018  
 ANDREW M. PUFUNDT  
 ILLINOIS REGISTRATION No. 062-061729  
 EXPIRATION DATE: 11/30/19

**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500  
 PROFESSIONAL DESIGN FIRM NO. 184-001175  
 EXPIRATION DATE: 04/30/19

## GENERAL NOTES

### INDEX OF SHEETS

DESCRIPTION	SHEET NO.
TITLE SHEET	1
INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES	2
SUMMARY OF QUANTITIES	3
TYPICAL SECTIONS	4
ALIGNMENT, TIES, AND BENCHMARKS	5
EXISTING CONDITIONS AND REMOVAL PLAN	6
UTILITY PLAN AND PROFILE	7-8
CONSTRUCTION DETAILS	9-11
PROPOSED ROADWAY CROSS SECTIONS	12-18

### HIGHWAY STANDARDS

000001-06 - STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-10 - PERPENDICULAR CURB RAMPS FOR SIDEWALKS
602001-02 - CATCH BASIN TYPE A
602011-02 - CATCH BASIN TYPE C
602411-06 - PRECAST MANHOLE TYPE A 7' DIAMETER
602601-05 - PRECAST REINFORCED CONCRETE FLAT SLAB TOP (ONLY IF APPROVED IN FIELD BY ENGINEER)
602701-02 - MANHOLE STEPS
604001-04 - FRAME AND LIDS TYPE 1
604051-04 - FRAME AND GRATE TYPE 11
606001-07 - CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701301-04 - LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501-06 - URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-06 - SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-07 - TRAFFIC CONTROL DEVICES
780001-05 - TYPICAL PAVEMENT MARKINGS

### SPECIFICATIONS, STANDARDS AND SPECIAL PROVISIONS

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED APRIL 1, 2016; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", THE LATEST REVISION; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (IMUTCD), "THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" JUNE 2014 SEVENTH EDITION, THE "DETAILS" IN THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS.
- ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED AS THE LATEST IDOT HIGHWAY STANDARD.
- CODES OF THE IEPA TITLE 35, AND O.S.H.A. SHALL BE ADHERED TO FOR THE CONSTRUCTION OF THIS PROJECT. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ADHERENCE TO THESE (NOT THE VILLAGE'S OR THE ENGINEER'S).
- ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 700 OF THE STANDARD SPECIFICATIONS.
- ALL REQUIRED PERMITS FROM THE PROPER GOVERNING AGENCY SHALL BE OBTAINED FOR CONSTRUCTION ALONG OR ACROSS EXISTING STREETS OR HIGHWAYS. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE PROPER BRACING, SHEETING, SHORING AND OTHER REQUIRED PROTECTION OF ALL ROADWAYS BEFORE CONSTRUCTION BEGINS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE STREETS OR ROADWAYS AND ASSOCIATED STRUCTURES AND SHALL MAKE REPAIRS AS NECESSARY TO THE SATISFACTION OF THE AGENCY, AT THE CONTRACTOR'S OWN EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC.

### UTILITIES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING FACILITIES SO THAT THE UTILITIES AND THEIR APPURTENANCES MAY BE LOCATED AND ADJUSTED OR MOVED, IF NECESSARY, PRIOR TO THE START OF CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS.
- THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES, STORM AND SANITARY SEWERS, WATER SERVICE LINES AND OTHER UTILITY LINES ARE APPROXIMATE, AND THE VILLAGE DOES NOT GUARANTEE THEIR ACCURACY. THEIR EXACT HORIZONTAL AND VERTICAL LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES AND SEWER EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY SEWER OR UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER OR VILLAGE. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
- BEFORE STARTING ANY EXCAVATING, THE CONTRACTOR SHALL CALL "I.U.L.I.E." AT 811 OR AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, CABLE AND GAS FACILITIES AND THE VILLAGE OF VILLA PARK FOR FIELD LOCATIONS OF BURIED WATER, SANITARY AND STORM FACILITIES (2 WORKING DAYS ADVANCE NOTIFICATION IS REQUIRED).
- THE PUBLIC WORKS DEPARTMENT AT 630-834-8505 SHALL BE NOTIFIED 48 HOURS PRIOR TO CONSTRUCTION AND ALL TESTING.
- ALL UTILITY CONNECTIONS TO EXISTING LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATIONS AND TO THE SATISFACTION OF THE UTILITY OWNER.

### STAKING

- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS OR PROPERTY OR REFERENCE MARKERS UNTIL THE VILLAGE, THE VILLAGE'S AGENT OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATIONS.

### WATER, STORM SEWER AND SANITARY SEWER

- WHENEVER DURING CONSTRUCTION OPERATIONS ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF UTILITY STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED IMMEDIATELY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONTRACT.
- WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS OR CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE THE SAME. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWERS ARE BUILT AND IN SERVICE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE STORM SEWER.
- ANY EXISTING OR PROPOSED UTILITY DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE VILLAGE.
- THE COST OF CONNECTING EXISTING STORM SEWER TO THE PROPOSED DRAINAGE SYSTEM AND CONNECTING PROPOSED STORM SEWER TO EXISTING STRUCTURES SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE FOR STORM SEWERS. HOWEVER, THE NECESSARY PIPE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR "STORM SEWER" OF THE TYPE AND SIZE REQUIRED.
- THE CONTRACTOR SHALL CONFIRM ALL EXISTING STORM SEWER PIPE SIZES AND INVERTS PRIOR TO ORDERING STRUCTURES. ANY MODIFICATIONS OF STRUCTURES DUE TO THE FAILURE OF THE CONTRACTOR TO PERFORM THIS TASK SHALL BE AT THE CONTRACTOR'S EXPENSE AND MAY LEAD TO THE REJECTION OF THE STRUCTURE IN THE FIELD.
- ADJUST MANHOLE OR VAULT RIM ELEVATIONS TO FINAL GRADE AT TIME OF FINAL PAVING OR LANDSCAPING. ADJUSTMENT OF NEW STRUCTURES TO FINAL GRADE IS INCLUDED IN THE COST OF THE NEW STRUCTURE REGARDLESS OF THE AMOUNT OF TIMES ADJUSTMENT MUST BE MADE.

- WHEN CONNECTION TO AN EXISTING SEWER MAIN IS MADE BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, THE FOLLOWING METHOD SHALL BE USED:
  - CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUB-WYE SADDLE OR HUB-TEE SADDLE.
- SEWER CONSTRUCTION: ALL WORK SHALL CONFORM TO THE PROVISIONS OF THE STANDARD SPECIFICATIONS EXCEPT AS SAME MAY BE MODIFIED BY THE FOLLOWING: ALL WATER FROM THE TRENCH AND PIPELINES WILL BE PUMPED OUT BY THE CONTRACTOR AND DISPOSED OF IN SUCH A MANNER THAT IT WILL NOT INTERFERE OR DAMAGE THE WORK OF THIS OR OTHER CONTRACTORS PUMPING SHALL BE CONTINUOUS (24 HOURS A DAY, SEVEN DAYS A WEEK) AS LONG AS SUFFICIENT WATER COLLECTS TO WARRANT THIS. STORM SEWERS IN THE AREA MAY BE USED TO DISPOSE OF THE WATER COLLECTED, IF APPROVED BY THE VILLAGE.
- ALL BEDDING AND BACKFILL MATERIAL SHALL BE OF VIRGIN MATERIAL.
- ANY PORTIONS OF STORM SEWER AND MISSION COUPLINGS NEEDED TO CONNECT (EXTEND) EXISTING STORM SEWER TO PROPOSED STORM SEWERS SHALL BE CONSIDERED INCLUDED IN THE COST OF THE SEWER. PROPOSED STORM SEWER SHALL BE STORM SEWER OF TYPE AND SIZE REQUIRED.

### BACKFILL

- STORM SEWER SHALL BE BACKFILLED IN ACCORDANCE WITH THE VILLAGE OF VILLA PARK STANDARD DETAIL FOR PIPE INSTALLATION.
- ALL TRENCH BACKFILL QUANTITIES FOR STORM SEWER HAVE BEEN COMPUTED AND SHALL BE PAID FOR IN ACCORDANCE WITH THE VILLAGE OF VILLA PARK STANDARD FOR PIPE INSTALLATION. TRENCH WIDTH SHALL BE IN ACCORDANCE WITH ARTICLE 550.04 OF THE STANDARD SPECIFICATIONS.
- ALL SANITARY SEWERS, WATER MAINS AND STORM SEWERS MUST BE PLACED ON PROPERLY COMPACTED BEDDING. BEDDING MATERIAL SHALL BE PLACED A MINIMUM OF 4 INCHES THICK UNDER THE BARREL OF THE PIPE AND SHALL BE EXTENDED 12" OVER THE TOP OF PIPE. BEDDING MATERIAL SHALL BE CRUSHED GRAVEL OR STONE MEETING GRADATION CA-7 OR CA-11. BEDDING SHALL BE INCLUDED IN THE COST OF THE PIPE.
- TRENCH BACKFILL MATERIAL (CA-6 CRUSHED STONE) SHALL BE PLACED FROM 12" OVER THE TOP OF THE PIPE AND COMPACTED TO 95% OF STANDARD MAXIMUM DENSITY (A.S.T.M. D-698) OVER ALL UNDERGROUND UTILITIES WHICH ARE CONSTRUCTED UNDER, OR WITHIN 2 FEET OF ANY PROPOSED OR EXISTING PAVEMENT, PARKING LOTS, OR SIDEWALKS. TRENCH BACKFILL SHALL BE MECHANICALLY COMPACTED IN 12" MAXIMUM LIFTS.
- ANY TRENCH BACKFILL REQUIRED IN EXCESS OF THE QUANTITY ESTABLISHED IN ACCORDANCE WITH THE VILLAGE STANDARD DETAIL FOR PIPE INSTALLATION, INCLUDING BEDDING MATERIAL, SHALL BE INCLUDED IN THE COST OF THE ITEM BEING INSTALLED.

### MISCELLANEOUS

- DIMENSIONS: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
- BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE I OR TYPE II BARRICADE USED (ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL).

## UTILITY CONTACTS

UTILITY COMPANY	AT&T (Distribution)	COMCAST	COMED	DUPAGE WATER COMMISSION	NICOR GAS
CONSTRUCTION CONTACT PERSON	Steve Larson	Martha Gieras	Lisa Argast	Ken Niles	Bruce Koppang
Phone #	630-573-5450	224-229-5862	630-576-7094	630-516-1932	630-388-3046
FAX					
ADDRESS	AT&T (DISTRIBUTION)	COMCAST	COMED	DUPAGE WATER COMMISSION	NICOR GAS
	1000 Commerce Drive, Floor 1	688 Industrial Drive	3 Lincoln Center	600 E. Butterfield Road	1844 Ferry Road
	Oak Brook, IL 60523	Elmhurst, IL 60126	Oak Brook Terrace, IL 60181	Elmhurst, IL 60126	Naperville, IL 60563
FACILITIES IN / NEAR PROJECT	YES	YES	YES	NO	YES
COMMENTS / STATUS					

**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

CLIENT:



**VILLAGE OF VILLA PARK**  
 20 S. Ardmore Ave.  
 Villa Park, IL 60181-2696

			DSGN.	AJS
			DWN.	AJS
			CHKD.	AMP
			SCALE:	20'
			PLOT DATE:	6/13/2018
			CAD USER:	aschaefer
NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
				Default
FILE NAME	N:\VILLAPARK\140092.00009\Civil\NOT_140092_09_01.SHT			

TITLE:

**SECOND AVENUE COMBINED  
 SEWER SEPARATION PROJECT  
 INDEX OF SHEETS, HIGHWAY  
 STANDARDS, AND GENERAL NOTES**

PROJ. NO. 140092.00009

DATE: 6/13/2018

SHEET 2 OF 18

DRAWING NO.

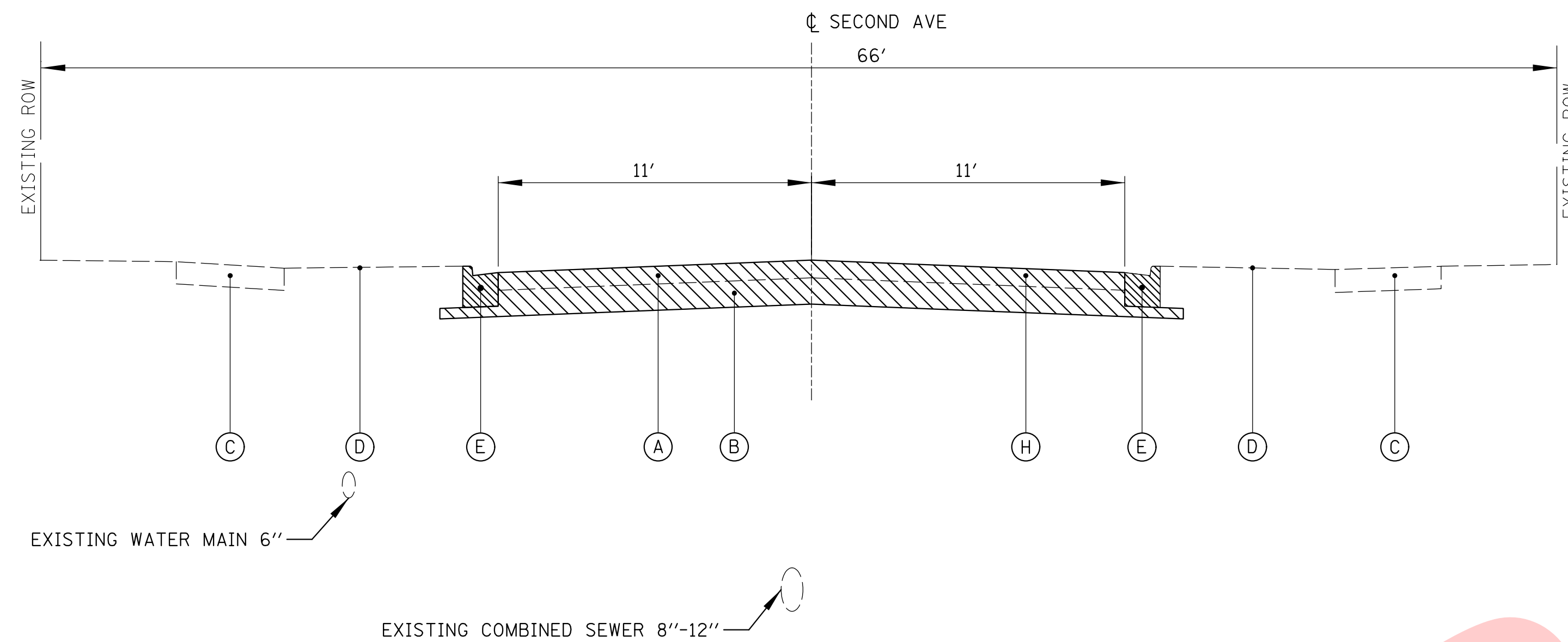
**2**

SUMMARY OF QUANTITIES

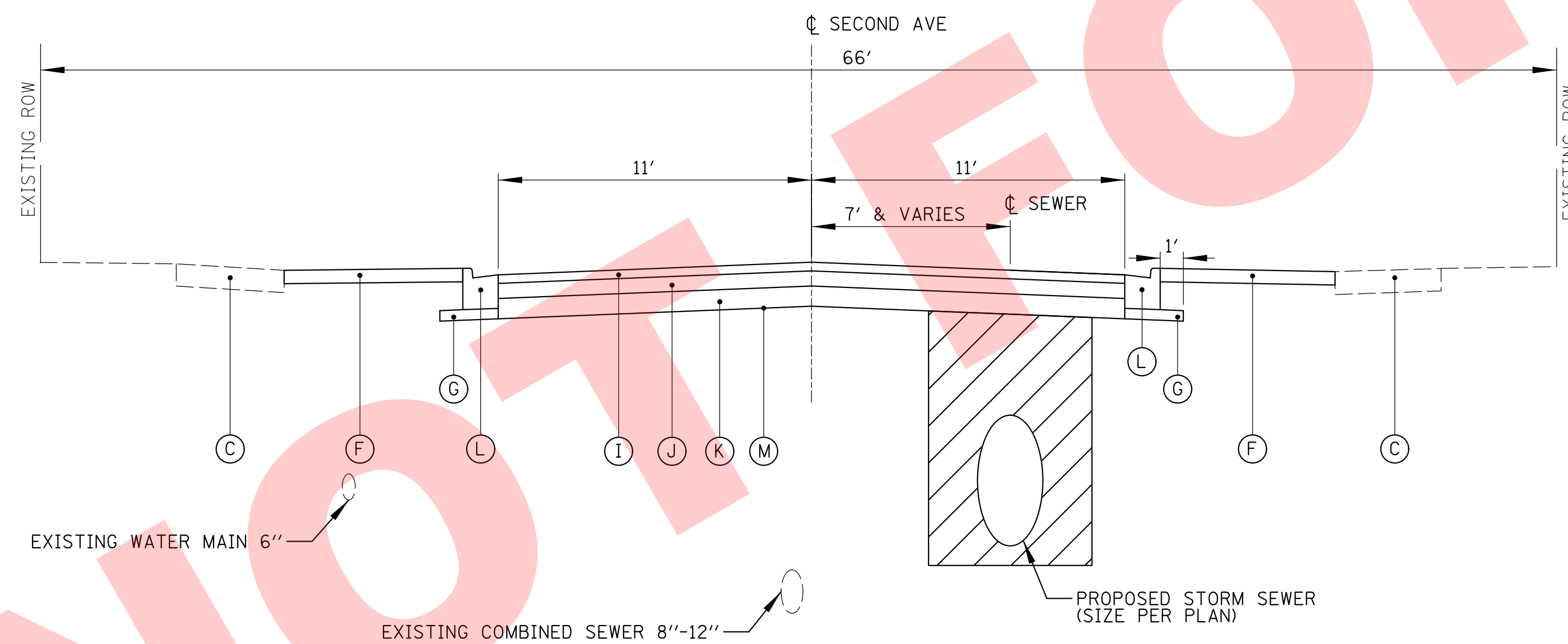
SP	ITEM NO.	PAY ITEM NAME	UNITS	TOTAL QUANTITY
	1	TEMPORARY FENCE	FOOT	200
#	2	TREE TRUNK PROTECTION	EACH	32
#	3	TREE ROOT PRUNING	EACH	16
	4	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	325
	5	POROUS GRANULAR EMBANKMENT	CU YD	325
#	6	TRENCH BACKFILL	CU YD	1106
	7	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	3241
#	8	SODDING	SQ YD	2690
	9	SUPPLEMENTAL WATERING	UNIT	122
#	10	INLET FILTERS	EACH	15
	11	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	3241
	12	BITUMINOUS MATERIALS (TACK COAT)	POUND	766
	13	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	763
	14	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	382
#	15	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	158
#	16	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	4425
#	17	DETECTABLE WARNINGS	SQ FT	206
#	18	PAVEMENT REMOVAL	SQ YD	3241
#	19	DRIVEWAY PAVEMENT REMOVAL	SQ YD	407
#	20	COMBINATION CURB AND GUTTER REMOVAL	FOOT	2316
#	21	SIDEWALK REMOVAL	SQ FT	4602
	22	STORM SEWER REMOVAL 8"	FOOT	144
	23	STORM SEWER REMOVAL 12"	FOOT	35
	24	STORM SEWER REMOVAL 30"	FOOT	7
#	25	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	15
#	26	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	8
#	27	CATCH BASINS, TYPE C, TYPE 11 FRAME AND GRATE	EACH	1
#	28	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1
#	29	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2
#	30	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1
	31	CATCH BASINS TO BE ADJUSTED	EACH	5
	32	MANHOLES TO BE ADJUSTED	EACH	1

SP	ITEM NO.	PAY ITEM NAME	UNITS	TOTAL QUANTITY
	33	VALVE BOXES TO BE ADJUSTED	EACH	1
	34	FRAMES AND GRATES, TYPE 11	EACH	1
#	35	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	2316
	36	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	77
#	37	EXPLORATION TRENCH, SPECIAL	FOOT	60
#	38	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	23
#	39	TEMPORARY ACCESS (ROAD)	EACH	7
#	40	ADJUSTING WATER SERVICE LINES	EACH	9
#	41	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
#	42	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 4"	SQ YD	316
#	43	CONSTRUCTION LAYOUT	L SUM	1
#	44	DRAINAGE STRUCTURE TO BE REMOVED	EACH	1
#	45	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	28
#	46	ADJUSTING SANITARY SEWERS, 8-INCH DIAMETER OR LESS - DUCTILE IRON	FOOT	80
#	47	ADJUSTING SANITARY SEWERS, 8-INCH OR LESS	FOOT	160
#	48	BRICK DRIVEWAY REMOVAL AND REPLACEMENT	SQ YD	22
#	49	CONTINGENCY ALLOWANCE	DOLLARS	25000
#	50	PRE-CONSTRUCTION VIDEO RECORDING	LSUM	1
#	51	SANITARY MANHOLE, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5
#	52	SANITARY SERVICE CONNECTION	EACH	4
#	53	SANITARY SERVICE REPLACEMENT	FOOT	100
#	54	SANITARY SEWER SERVICE COMBINATION CLEANOUT CHECK VALVE	EACH	4
#	55	STORM SEWERS, CLASS B (PVC), 6"	FOOT	50
#	56	STORM SEWERS, RUBBER GASKET, CLASS A (RCP), 12"	FOOT	162
#	57	STORM SEWERS, RUBBER GASKET, CLASS A (RCP), 24"	FOOT	300
#	58	STORM SEWERS, RUBBER GASKET, CLASS A (RCP), 36"	FOOT	559
#	59	TREE PRUNING	EACH	16
#	60	WATER SERVICE CONNECTION (LONG), 1"	EACH	4
#	61	WATER SERVICE CONNECTION (SHORT), 1"	EACH	4
#	62	WATER USAGE CREDIT	TGAL	100
#	63	WATER USAGE DEDUCTION	TGAL	100

# INDICATES SPECIAL PROVISION



**EXISTING TYPICAL SECTION**



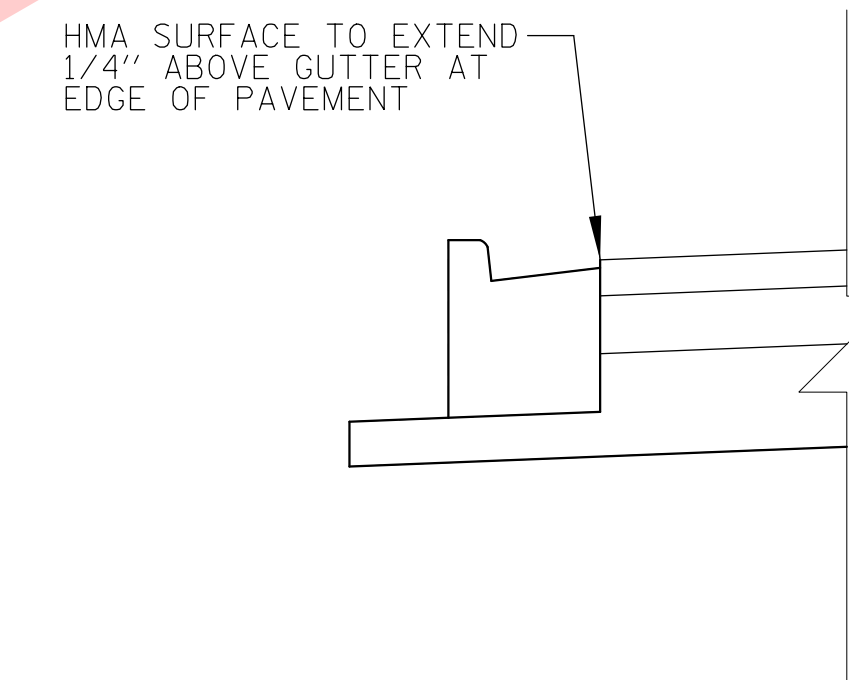
**PROPOSED TYPICAL SECTION**

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE ITEM	AIR Voids @ Ndes
<b>ROADWAY PAVEMENT RECONSTRUCTION</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 MM), 2"	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4"	4% @ 50 GYR
<b>DRIVEWAYS</b>	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 MM), 1.5"	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.5"	4% @ 50 GYR

**NOTES:**

1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP AND RAS" SEE DISTRICT ONE SPECIAL PROVISIONS.

**HMA SURFACE DETAIL**



**LEGEND:**

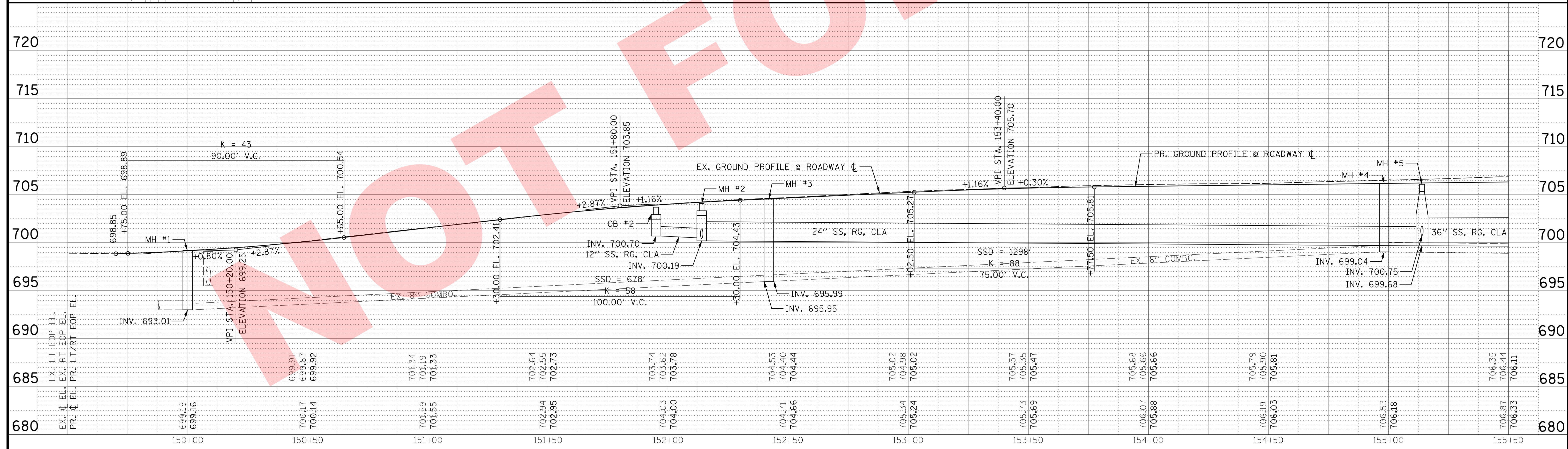
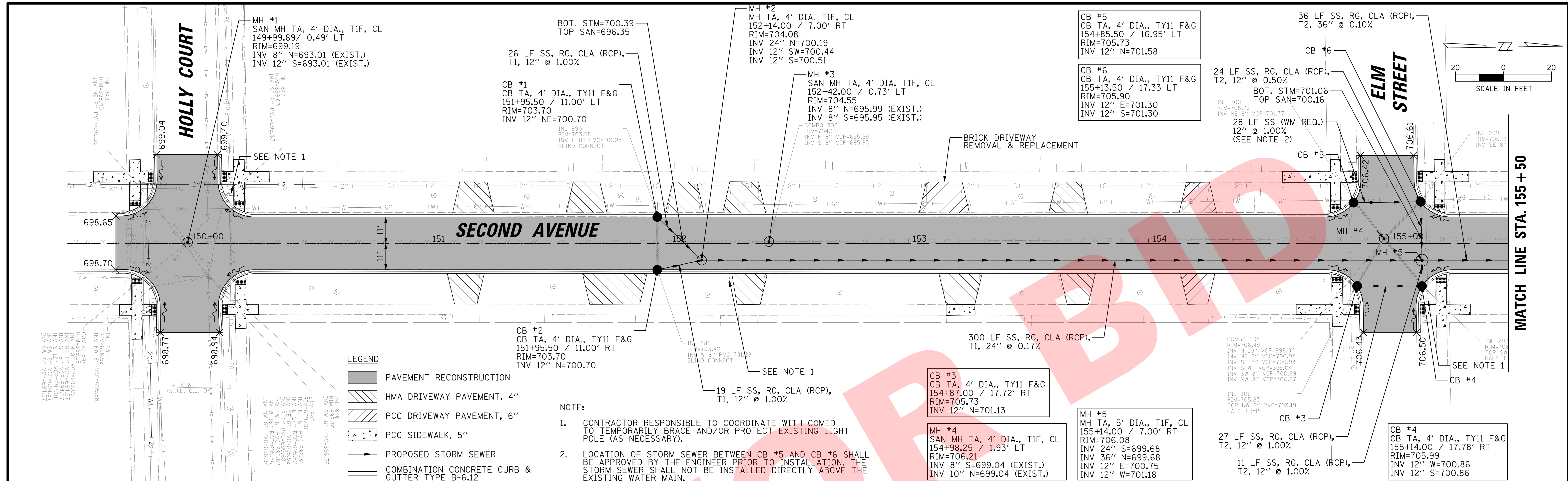
- TRENCH BEDDING AND BACKFILL
- PAVEMENT REMOVAL
- (A) EXISTING HMA PAVEMENT (SEE PAVEMENT CORES FOR THICKNESS)
- (B) EXISTING PCC OR STONE SUBBASE (SEE PAVEMENT CORES FOR THICKNESS)
- (C) EXISTING CONCRETE SIDEWALK OR SIDEWALK REPLACEMENT (AS DIRECTED BY ENGINEER)
- (D) EXISTING TOPSOIL AND GROUND COVER
- (E) COMBINATION CURB AND GUTTER REMOVAL
- (F) SODDING
- (G) SUB-BASE GRANULAR MATERIAL (CA-6), 4" (INCLUDED IN COST OF PROPOSED CURB & GUTTER)
- (H) PAVEMENT REMOVAL
- (I) HMA SURFACE COURSE, MIX "D", N50, 2"
- (J) HMA BINDER COURSE, IL-19.0, N50 4"
- (K) AGGREGATE BASE COURSE, TYPE B, 6"
- (L) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (M) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION

**NOTES:**

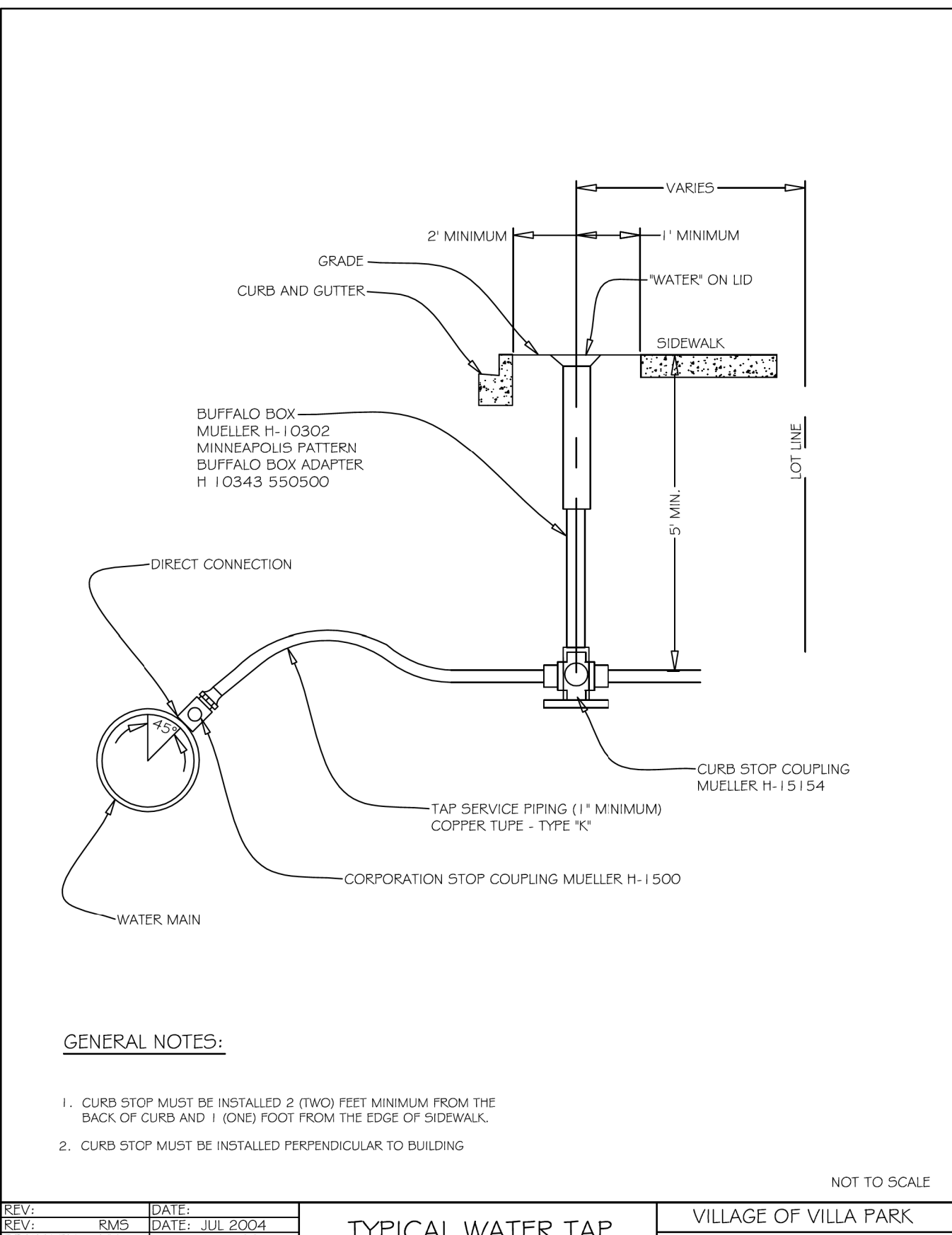
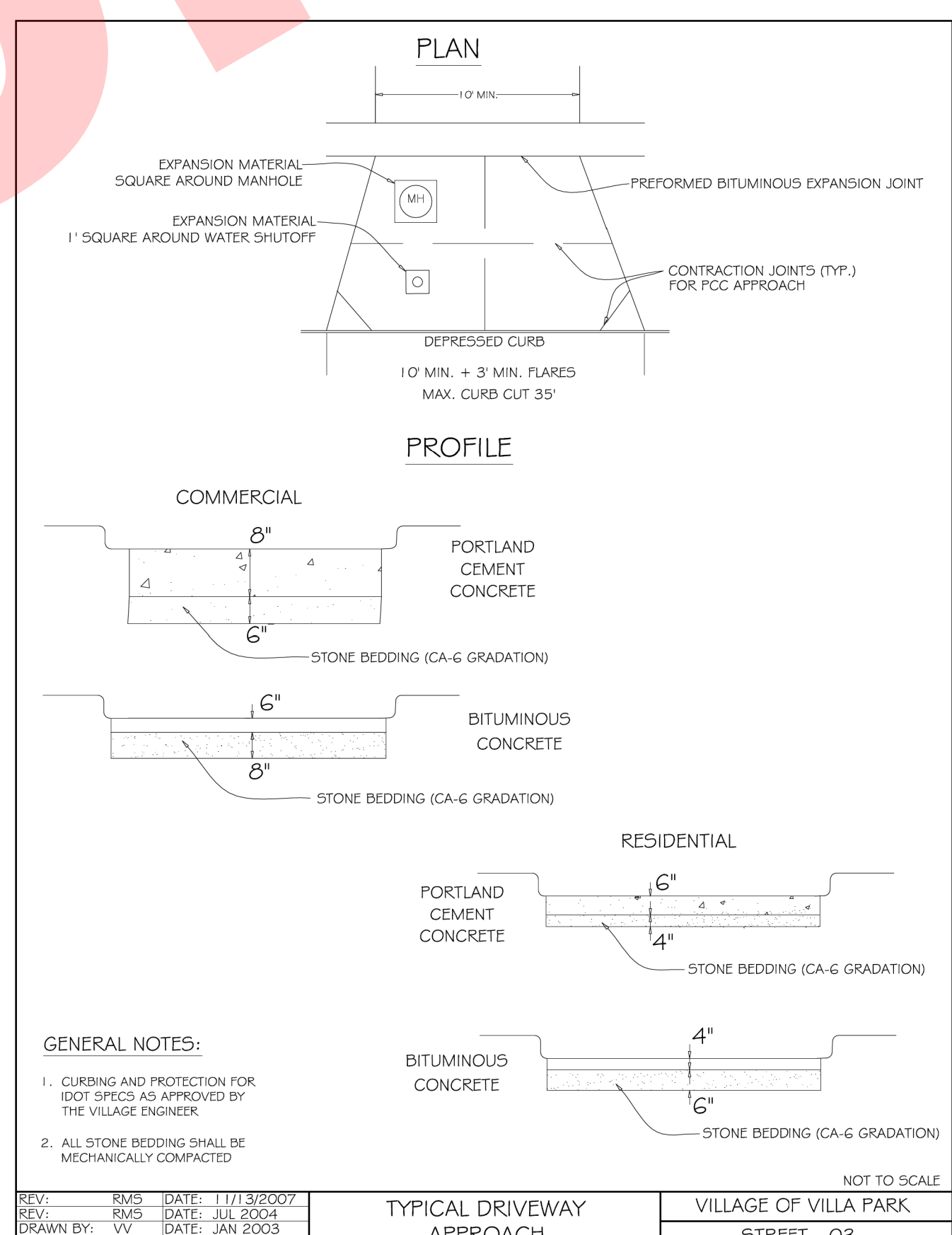
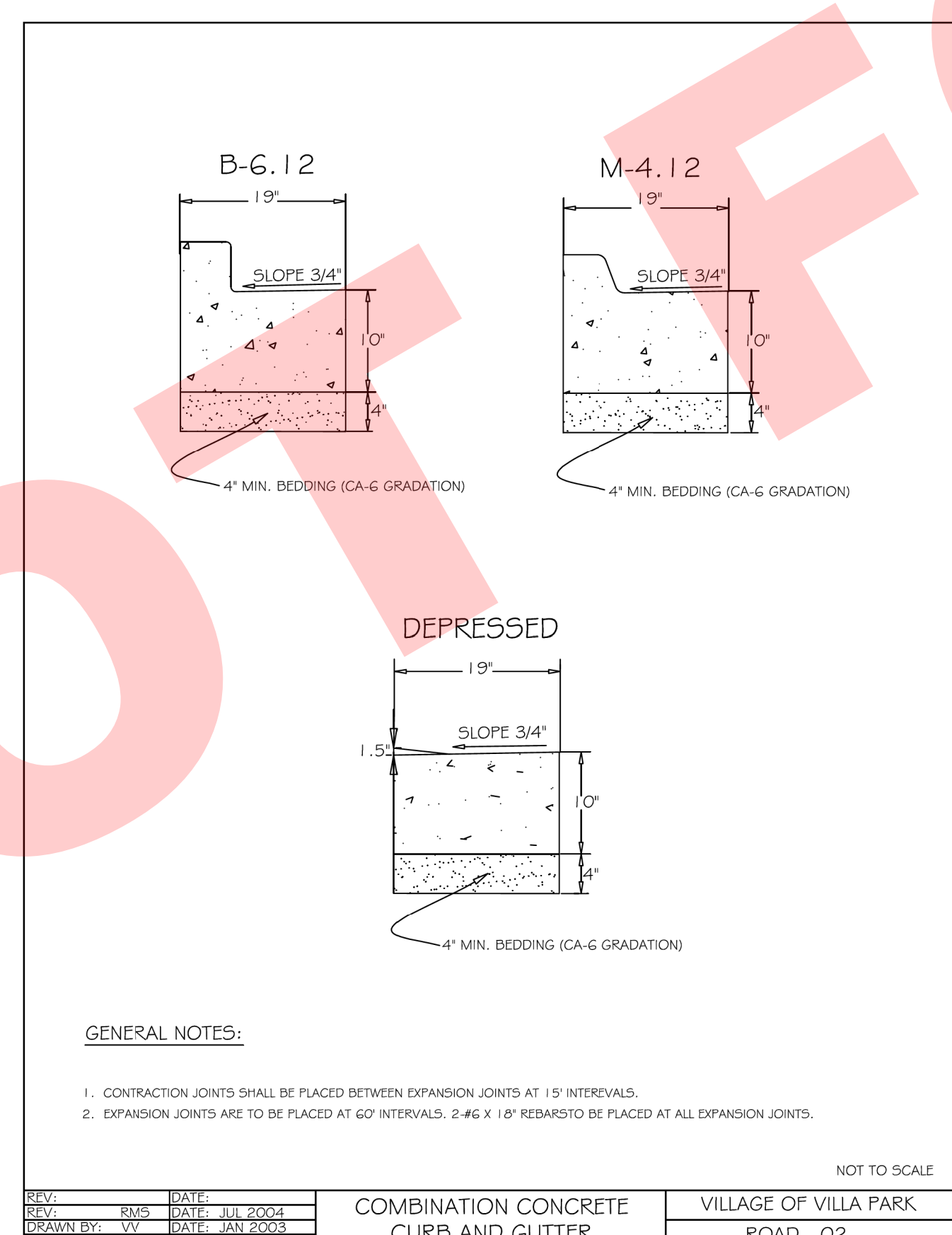
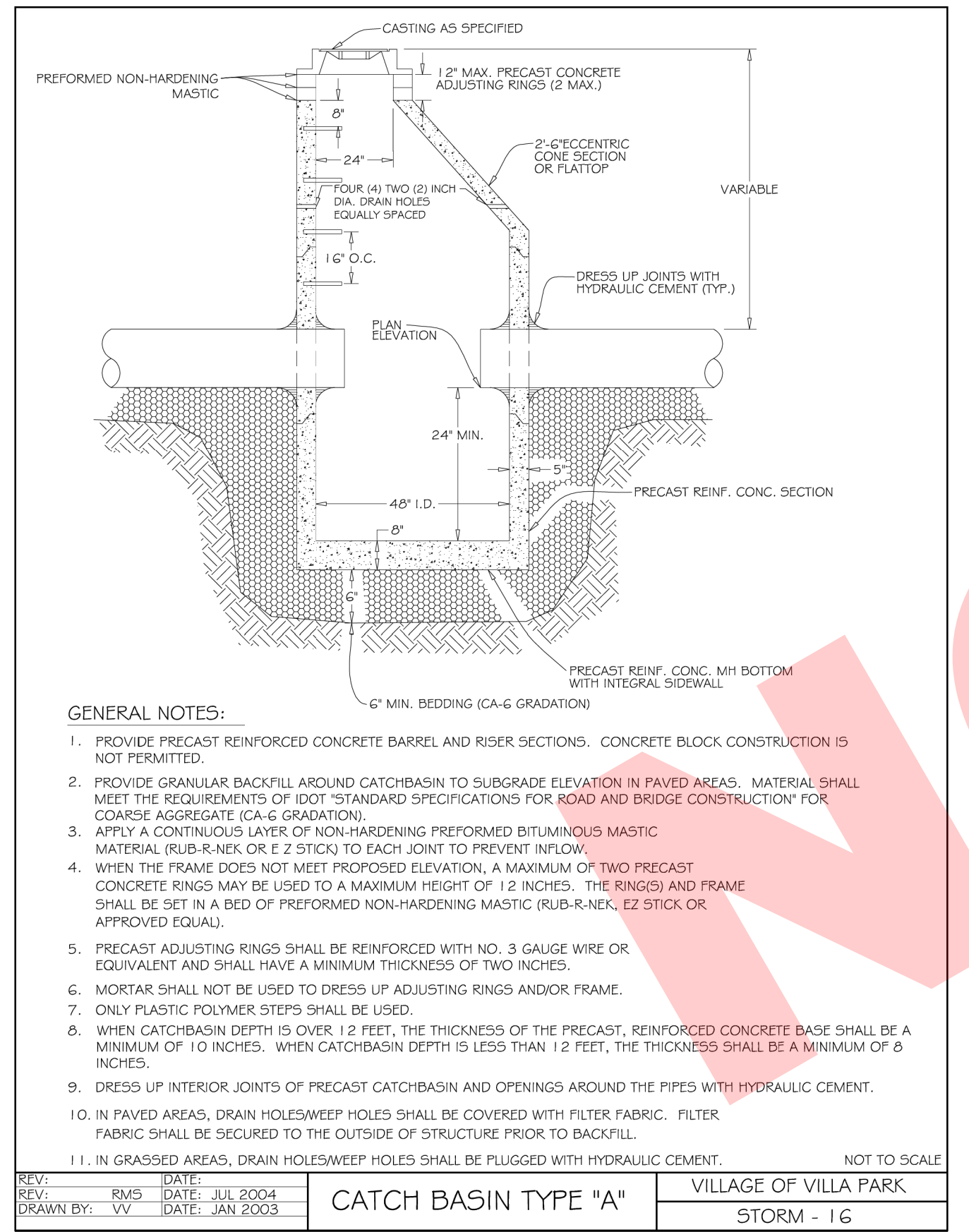
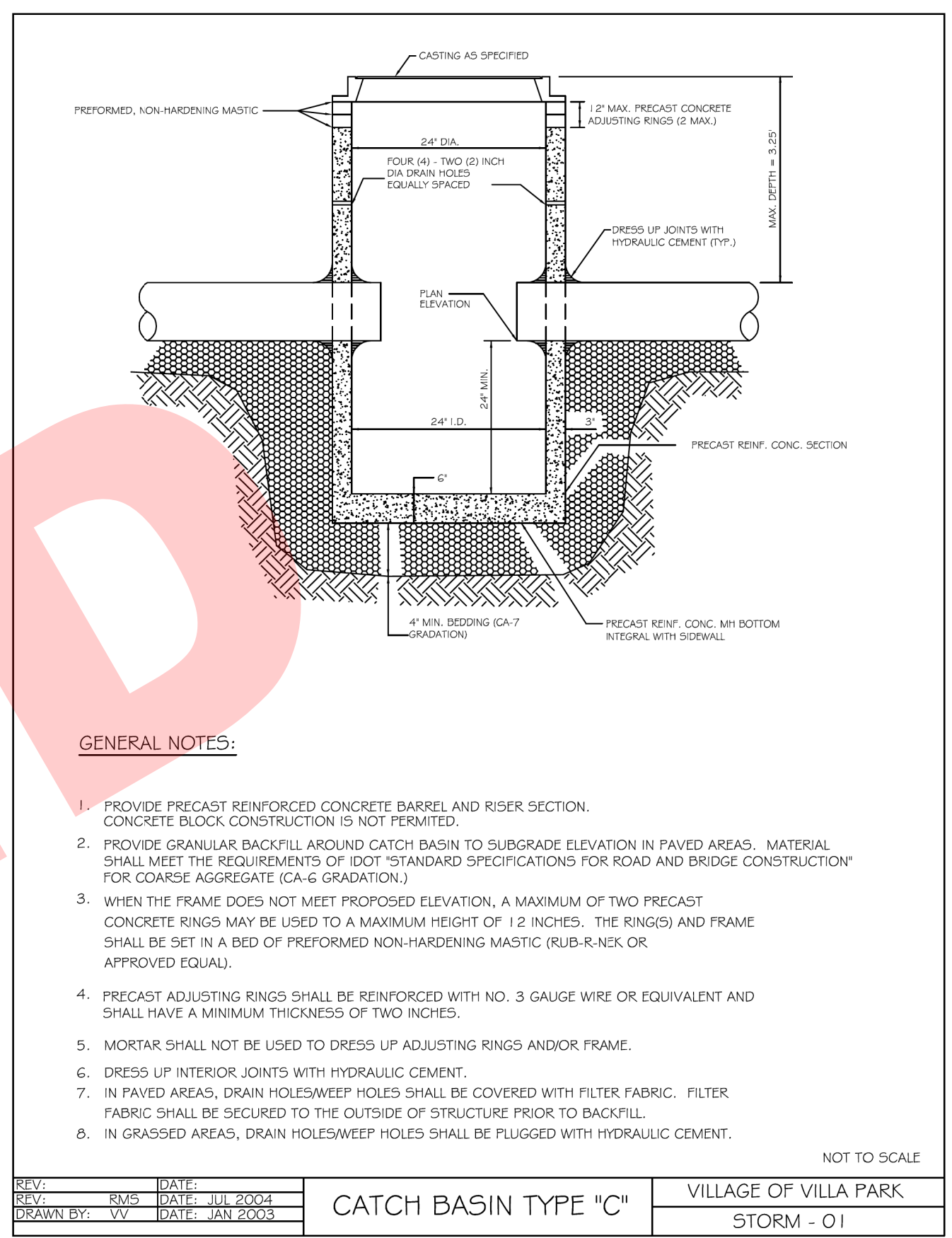
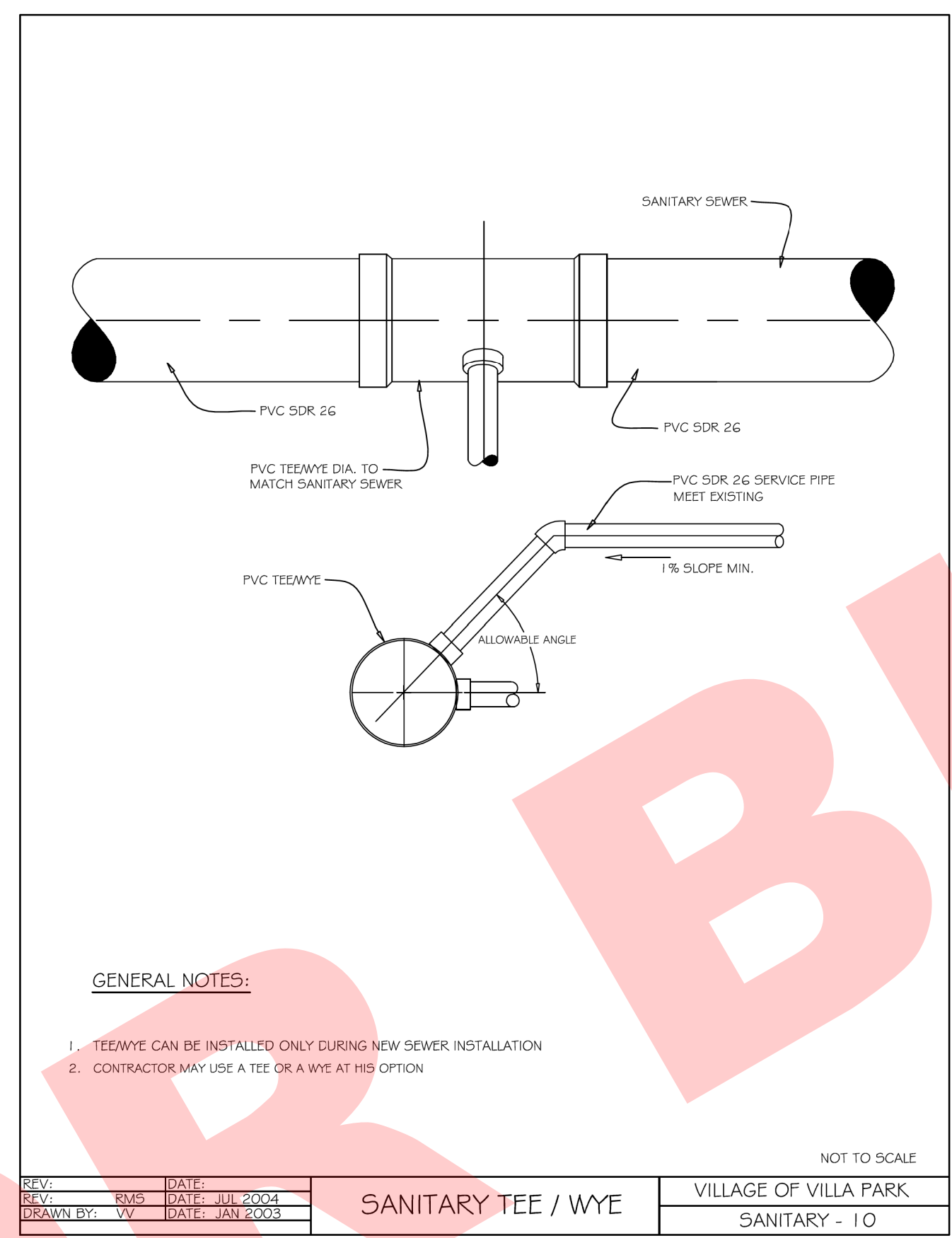
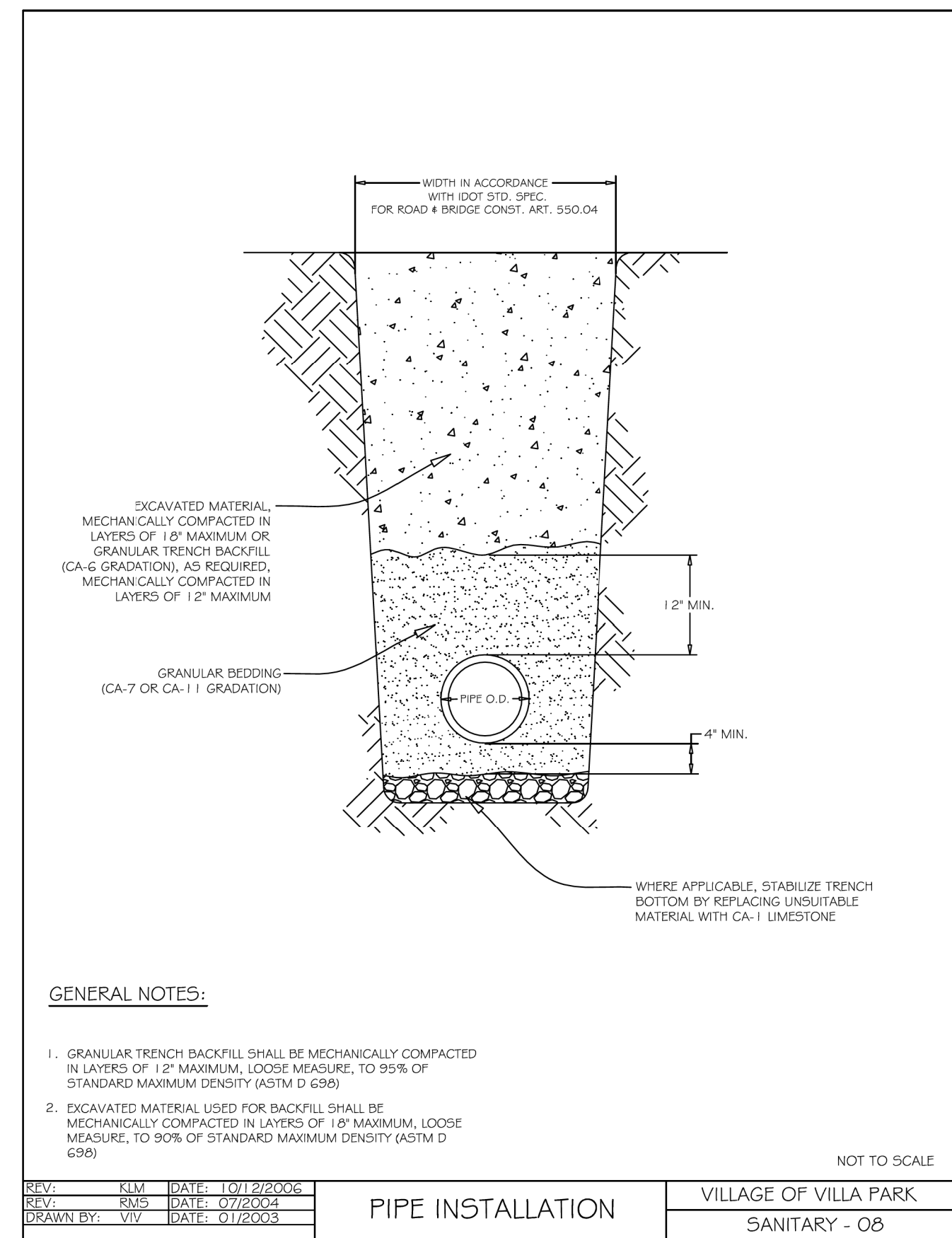
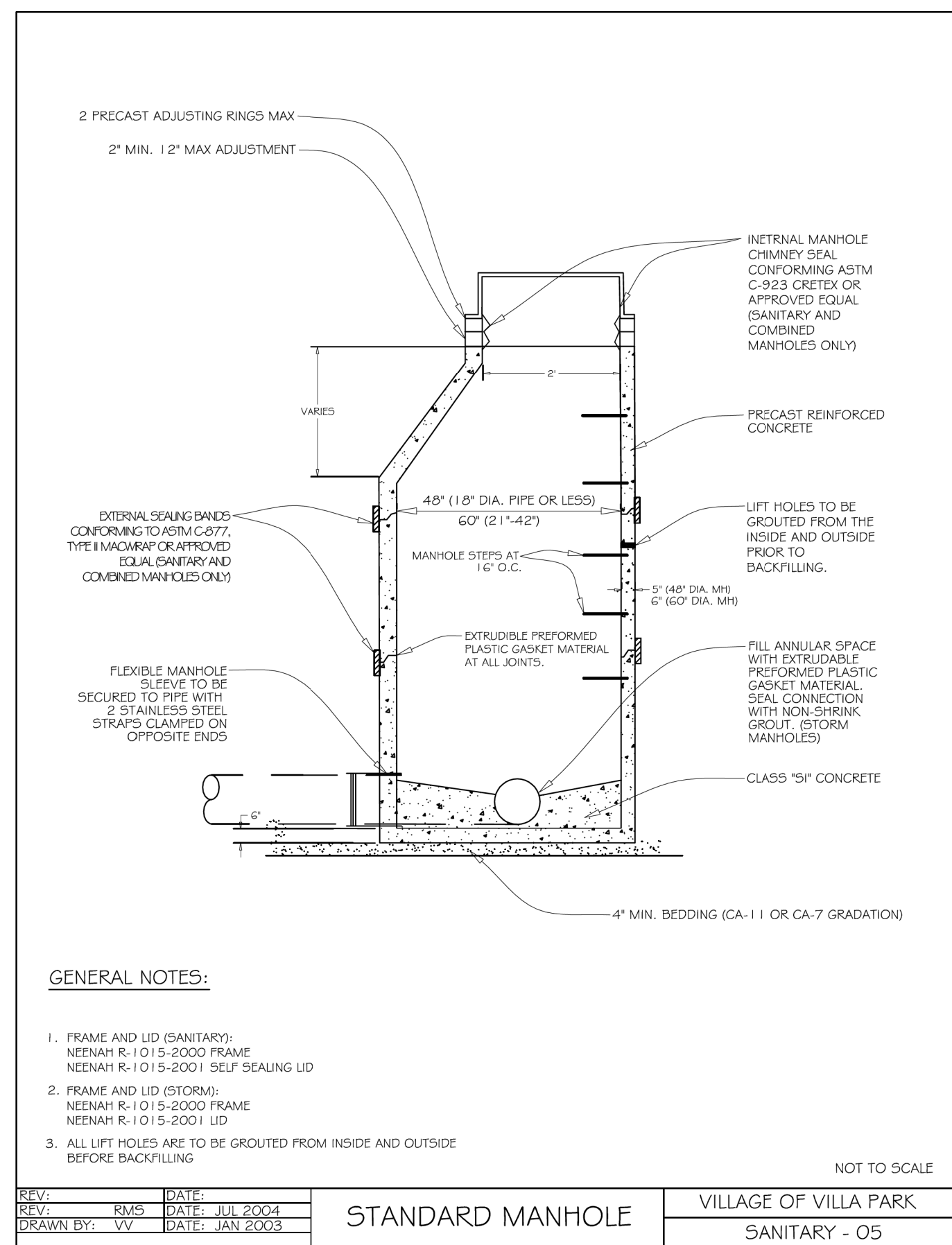
1. PAVEMENT REMOVAL INCLUDES REMOVAL OF ENTIRE PAVEMENT SECTION (INCLUDING STONE, EARTH, CLAY, ETC.) REQUIRED TO GET DOWN TO PROPER ELEVATION FOR INSTALLATION OF AGGREGATE BASE COURSE.



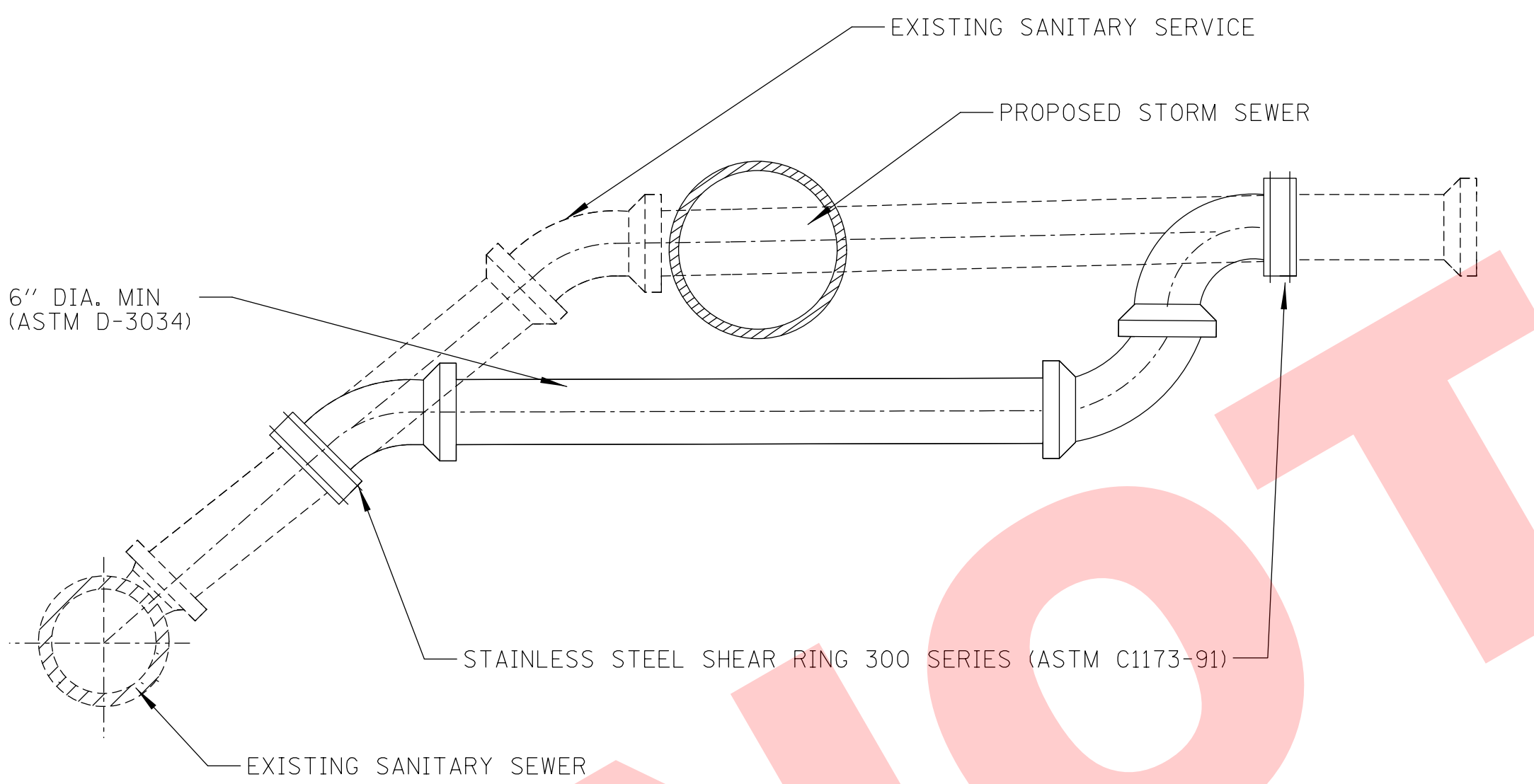
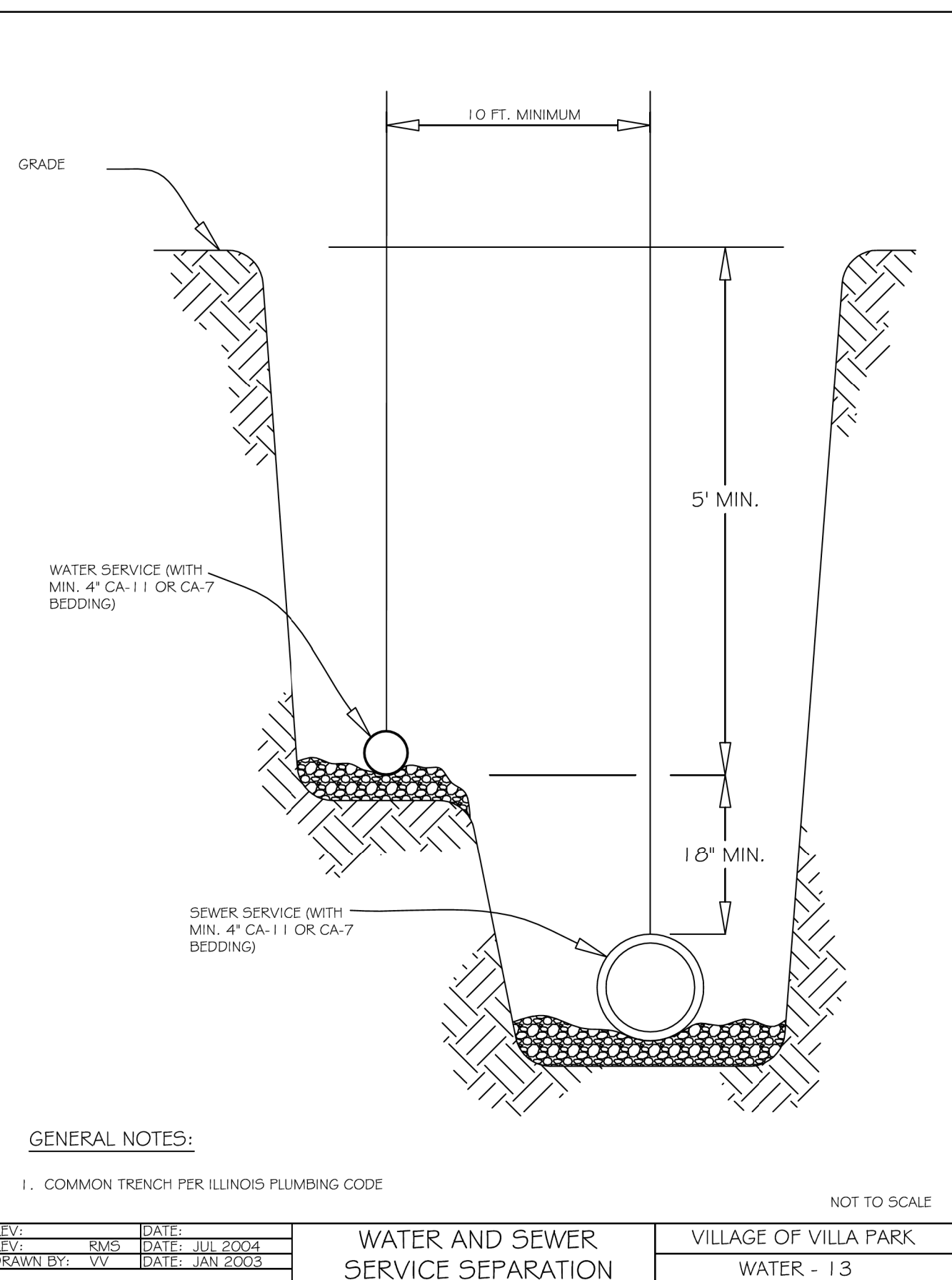






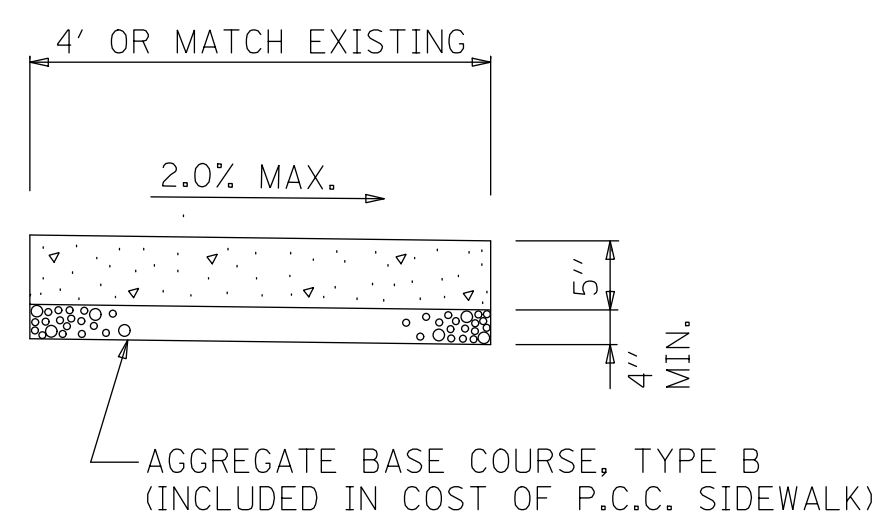


NO.	DATE	NATURE OF REVISION	CHKD.
FILE NAME	N:\VILLAPARK\140092.00009\CIVIL\DET_140092_09_01.SHT		



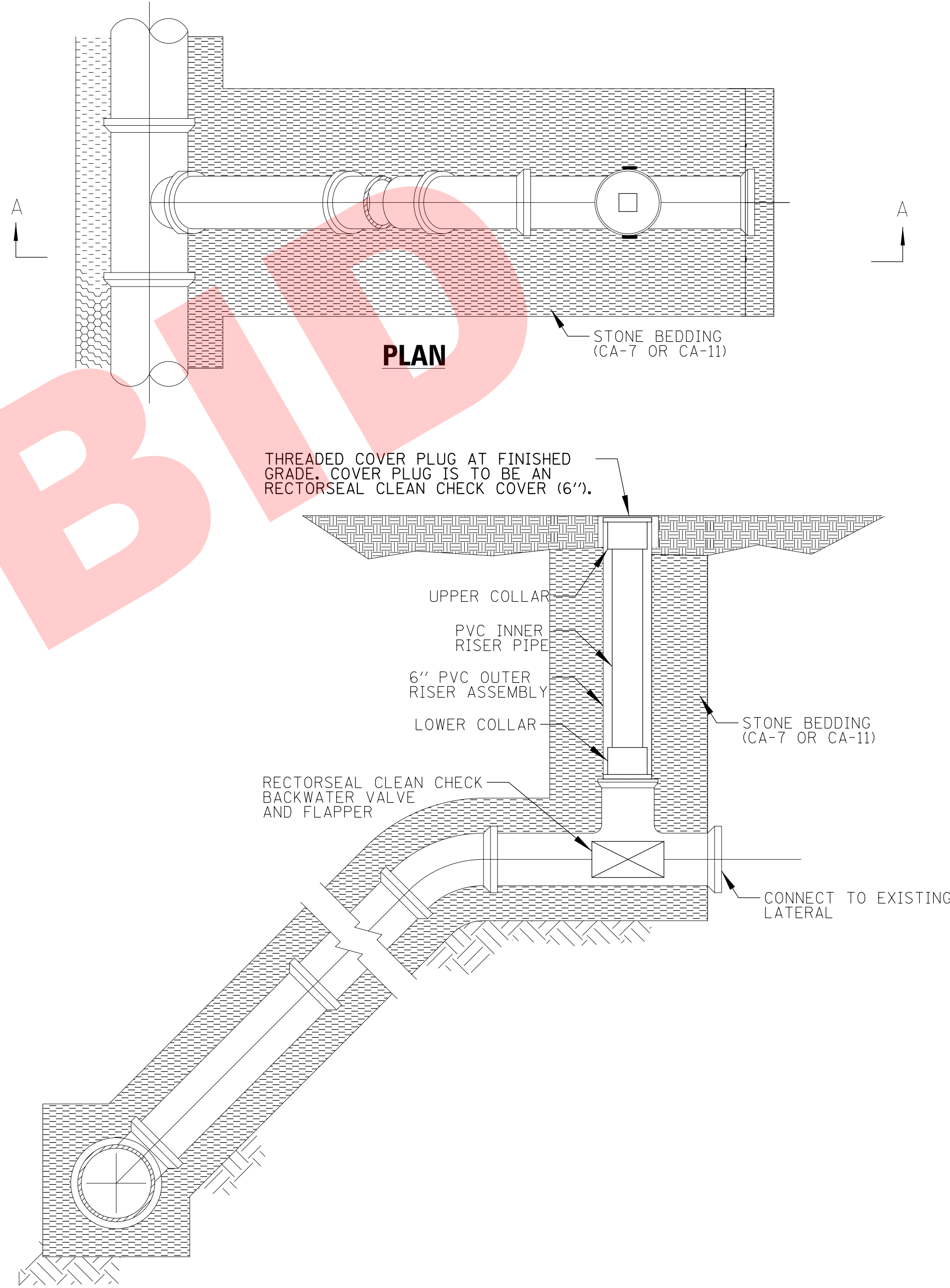
- NOTE:
1. THE CONTRACTOR WILL BE PAID FOR ADJUSTING SANITARY SEWER, 8-INCH OR LESS ONLY WHEN THE PROPOSED STORM SEWER IS IN DIRECT CONFLICT WITH THE EXISTING WATER SERVICE LINE.
  2. FOR TRENCH BACKFILL, PAYMENT WILL BE IN ACCORDANCE WITH THE VILLAGE OF VILLA PARK STANDARD DETAIL FOR PIPE INSTALLATION.
  3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL SANITARY SERVICES FROM THE PROPERTY LINE TO THE EXISTING SANITARY MAIN.
  4. AT THE DIRECTION OF THE ENGINEER, DUCTILE IRON PIPE SHALL BE USED WHEN THE SERVICE IS CONSTRUCTED UNDER THE PROPOSED UTILITY.

**ADJUSTING SANITARY SEWER, 8-INCH OR LESS**



**P.C.C. SIDEWALK 5 INCH  
DETAIL**

- NOTES:
1. ALL REQUIRED EARTH EXCAVATION TO CONSTRUCT P.C.C. SIDEWALK SHALL BE INCIDENTAL TO THE P.C.C. SIDEWALK 5 INCH.
  2. THICKNESS SHALL BE INCREASED TO 6" WHERE SIDEWALK IS ADJACENT TO A CONCRETE DRIVEWAY (COST INCIDENTAL).




**SECTION A-A**

- GENERAL NOTES:
1. CLEANOUT-CHECK VALVE SHALL BE RECTORSEAL CLEAN CHECK BACKWATER VALVE, OR APPROVED EQUAL. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

**COMBINATION CLEANOUT-CHECK VALVE**

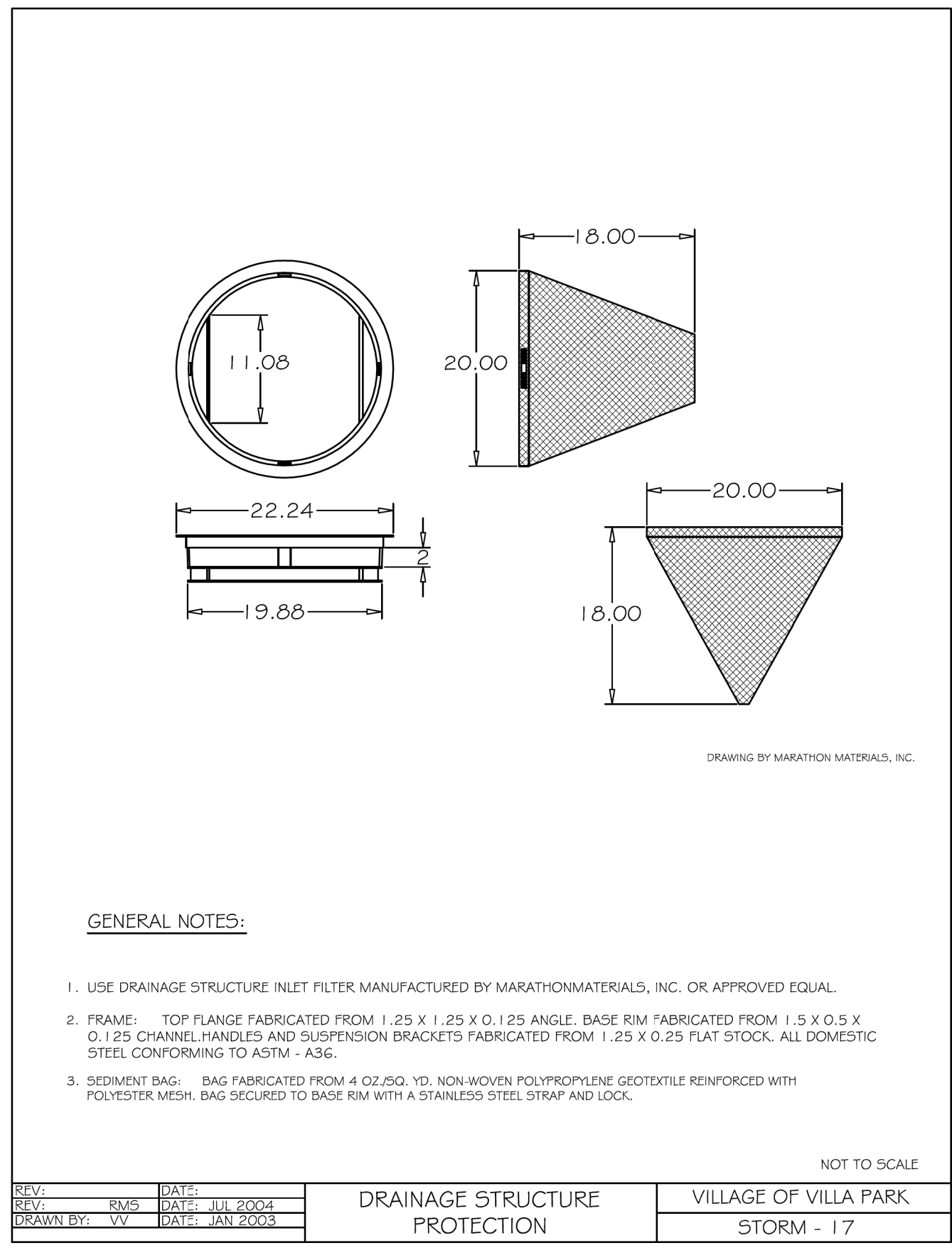
**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
9575 W. Higgins Road, Suite 600  
Rosemont, Illinois 60018  
(847) 823-0500

CLIENT:  
 **VILLAGE OF VILLA PARK**  
20 S. Ardmore Ave.  
Villa Park, IL 60181-2696

NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
				Default
FILE NAME	N:\VILLAPARK\140092.00009\CIVIL\DET_140092_09_02.SHT			

TITLE:  
**SECOND AVENUE COMBINED  
SEWER SEPARATION PROJECT  
CONSTRUCTION DETAILS**

PROJ. NO. 140092.00009  
DATE: 6/13/2018  
SHEET 10 OF 18  
DRAWING NO.  
**10**

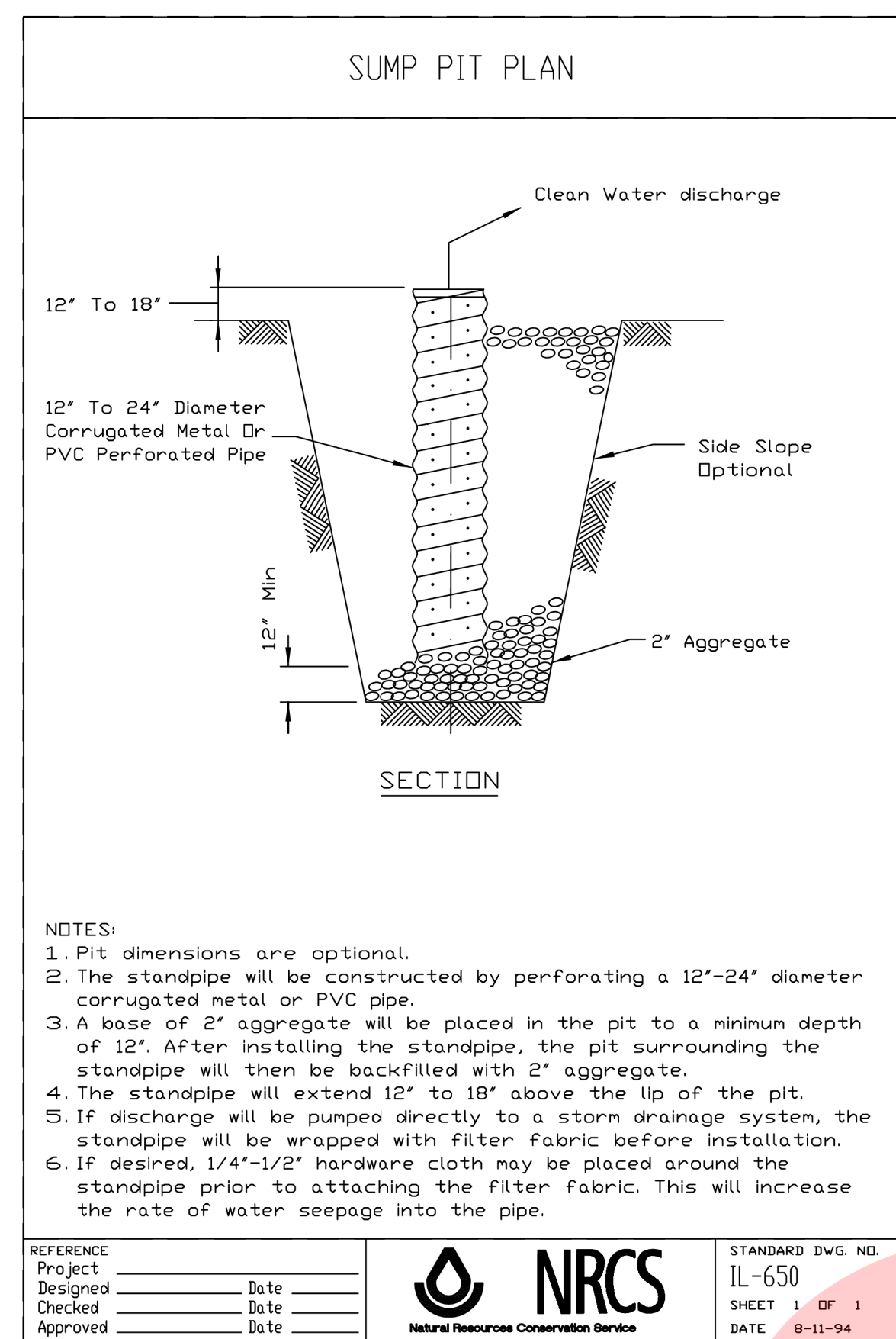


**GENERAL NOTES:**

1. USE DRAINAGE STRUCTURE INLET FILTER MANUFACTURED BY MARATHONMATERIALS, INC. OR APPROVED EQUAL.
2. FRAME: TOP FLANGE FABRICATED FROM 1.25 X 1.25 X 0.125 ANGLE. BASE RIM FABRICATED FROM 1.5 X 0.5 X 0.125 CHANNEL HANDLES AND SUSPENSION BRACKETS FABRICATED FROM 1.25 X 0.25 FLAT STOCK. ALL DOMESTIC STEEL CONFORMING TO ASTM - A36.
3. SEDIMENT BAG: BAG FABRICATED FROM 4 OZ./SQ. YD. NON-WOVEN POLYPROPYLENE GEOTEXTILE REINFORCED WITH POLYESTER MESH. BAG SECURED TO BASE RIM WITH A STAINLESS STEEL STRAP AND LOCK.

NOT TO SCALE

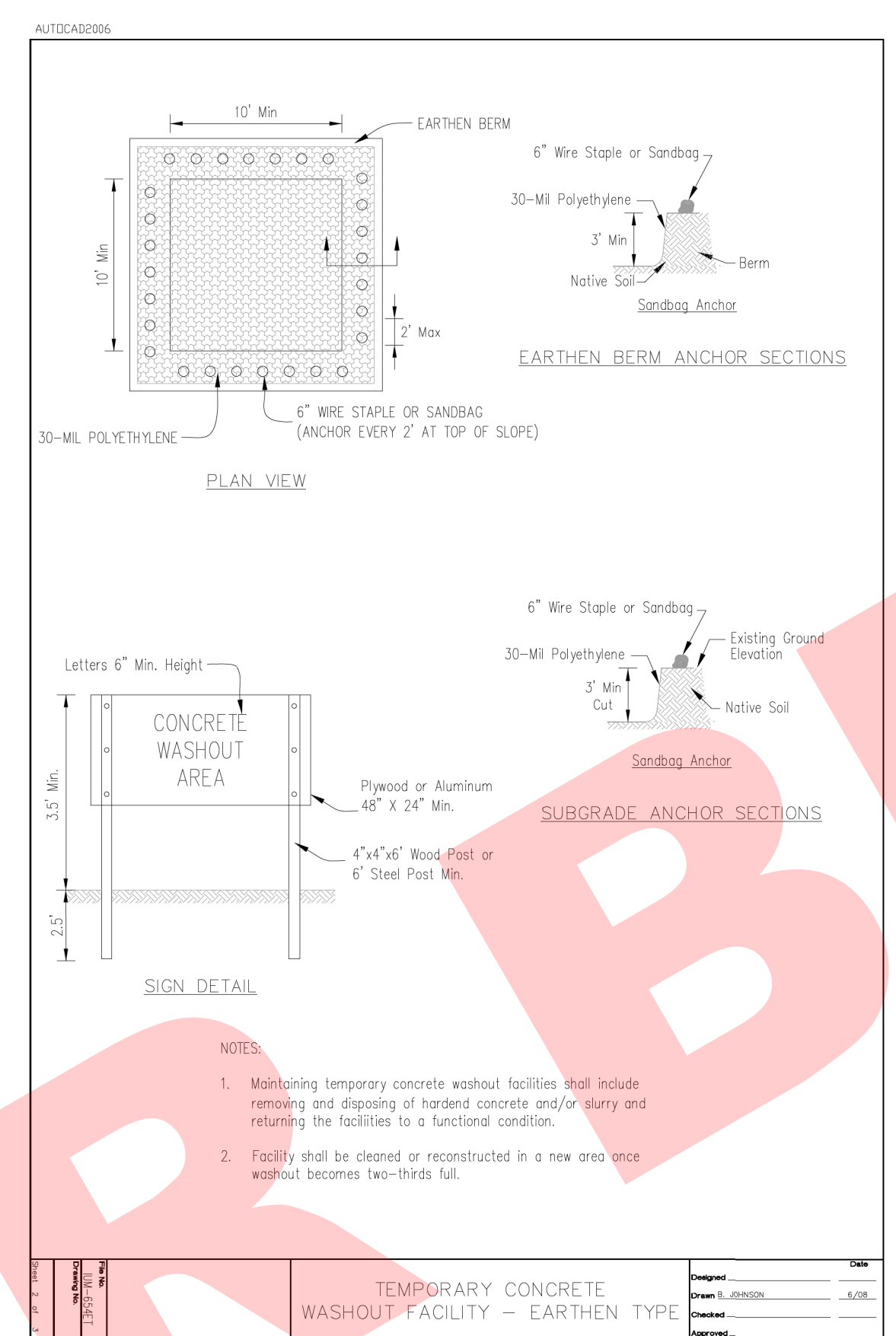
REV:	DATE:	DRAINAGE STRUCTURE PROTECTION	VILLAGE OF VILLA PARK
REV: RMS	DATE: JUL 2004		
DRAWN BY: VV	DATE: JAN 2003		



**NOTES:**

1. Pit dimensions are optional.
2. The standpipe will be constructed by perforating a 12'-24' diameter corrugated metal or PVC pipe.
3. A base of 2' aggregate will be placed in the pit to a minimum depth of 12". After installing the standpipe, the pit surrounding the standpipe will then be backfilled with 2' aggregate.
4. The standpipe will extend 12" to 18" above the lip of the pit.
5. If discharge will be pumped directly to a storm drainage system, the standpipe will be wrapped with filter fabric before installation.
6. If desired, 1/4"-1/2" hardware cloth may be placed around the standpipe prior to attaching the filter fabric. This will increase the rate of water seepage into the pipe.

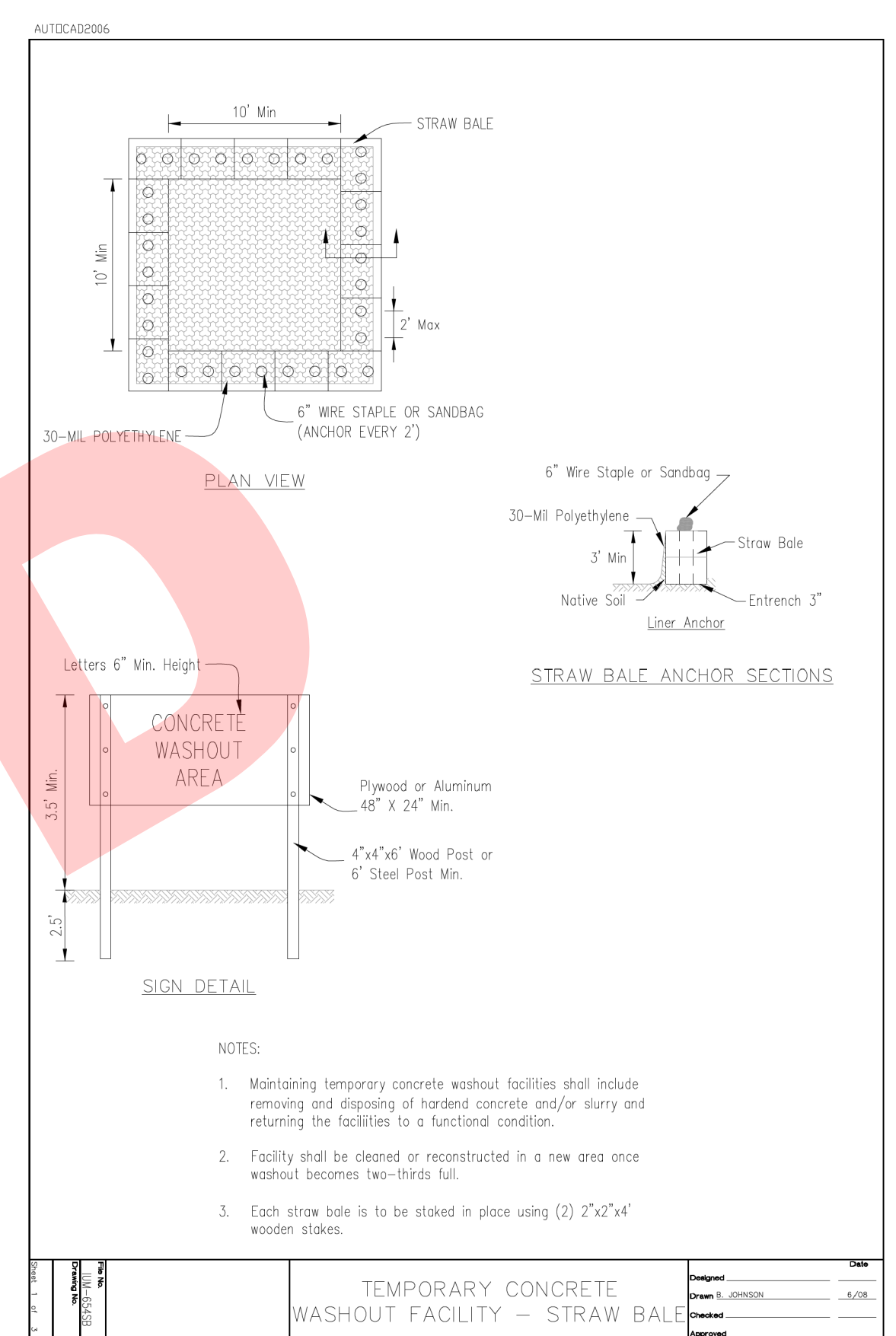
Project:	Date:	STANDARD DWG. NO.
Designed:	Date:	IL-650
Checked:	Date:	SHEET 1 OF 1
Approved:	Date:	DATE 8-11-94



**NOTES:**

1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

Project:	Date:	TEMPORARY CONCRETE WASHOUT FACILITY - EARTHEN TYPE
Designed:	Date:	
Checked:	Date:	
Approved:	Date:	



**NOTES:**

1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.
3. Each straw bale is to be staked in place using (2) 2"x2"x4' wooden stakes.

Project:	Date:	TEMPORARY CONCRETE WASHOUT FACILITY - STRAW BALE
Designed:	Date:	
Checked:	Date:	
Approved:	Date:	

**SOIL EROSION CONTROL AND SEDIMENT CONTROL NOTES**

1. SOIL EROSION AND SEDIMENT CONTROL (SESC) FEATURES MUST BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF UPLAND DISTURBANCE. SOIL DISTURBANCE MUST BE PHASED OR ENACTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES MUST CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY AND/OR PERMANENT MEASURES.
2. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED AT MINIMUM ACCORDING TO THE STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL, REVISED TO LATEST VERSION AS AMENDED. A COPY OF THE APPROVED SOIL EROSION AND SEDIMENT CONTROL (SESC) PLAN MUST BE MAINTAINED ON THE SITE AT ALL TIMES.
3. THE EROSION AND SEDIMENT CONTROLS SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED AS DIRECTED BY THE VILLAGE, OR THEIR AUTHORIZED REPRESENTATIVE. ALL ADDITIONAL MEASURES MUST BE IN PLACE WITHIN 3 DAYS OF DISTURBANCE AND ANY EMERGENCY SESC MEASURES MUST BE INSTALLED IMMEDIATELY.
4. THE CONTRACTOR MUST CLEAN UP, GRADE THE WORK AREAS AS THE PROJECT PROGRESSES, AND INSTALL EROSION PROTECTION TO ELIMINATE THE CONCENTRATION OF RUNOFF, OR MUST INSTALL APPROPRIATE SEDIMENT CONTROL DEVICES TO TRAP SEDIMENT. PAVEMENT MUST BE CLEANED DAILY OR AS NECESSARY TO REMOVE TRACK-OUT MATERIAL.
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DIVERT ALL WATER (GROUND, STORM, AND CONSTRUCTION) DURING CONSTRUCTION IN ORDER TO KEEP THE CONSTRUCTION AREAS FREED OF WATER, BYPASS PUMPING, INCLUDING SILT BAGS AND AN ENERGY DISSIPATION SURFACE FOR THE PUMPS, SHALL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE STORM SEWER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SIZE THE PUMPS APPROPRIATELY.
6. DURING DE-WATERING/PUMPING OPERATIONS, ONLY UNCONTAMINATED WATER SHOULD BE ALLOWED TO DISCHARGE TO PROTECTED NATURAL AREAS, WATERS OF THE STATE, OR TO A STORM SEWER SYSTEM (IN ACCORDANCE WITH LOCAL PERMITS). INLET HOSES SHOULD BE PLACED IN A STABILIZED SUMP PIT OR FLOATED AT THE SURFACE OF THE WATER IN ORDER TO LIMIT THE AMOUNT OF SEDIMENT INTAKE. PUMPING OPERATIONS MAY BE DISCHARGED TO A STABILIZED AREA THAT CONSISTS OF AN ENERGY DISSIPATING DEVICE (E.G., STONE), SEDIMENT FILTER BAG, OR BOTH. ADEQUATE EROSION AND SEDIMENT CONTROLS SHOULD BE USED DURING DE-WATERING OPERATIONS AS NECESSARY. DEWATERING SEDIMENT LADEN WATER DIRECTLY INTO FIELD TILES, STORM WATER STRUCTURES, OR "WATERS OF THE US" IS PROHIBITED.
7. SEDIMENT CONTROL BMPs SHALL BE CONSTRUCTED AT ALL LOCATIONS WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES THE SITE. THESE LOCATIONS SHALL BE DETERMINED IN THE FIELD, AS NEEDED. GRAVELED ROADS, RUMBLE STRIPS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLE WASH DOWN FACILITIES IF NECESSARY, MUST BE PROVIDED TO PREVENT THE DEPOSIT OF SOIL FROM BEING TRACKED

**ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING PUBLIC OR PRIVATE ROADWAY MUST BE REMOVED IMMEDIATELY.**

8. STOCK PILES OR SOIL MUST NOT BE LOCATED IN FLOOD PLAINS, RIPARIAN AREAS (VEGETATED FLOOD PLAINS), WETLANDS AND WATERS OF THE U.S., UNLESS OTHERWISE AUTHORIZED BY THE RELEVANT PERMITTING AUTHORITY. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, PERIMETER SEDIMENT BARRIER MUST BE PROVIDED AT THE CONTRACTOR'S EXPENSE.
9. ALL PROPOSED AND EXISTING STORM SEWER INLET STRUCTURES (INCLUDING INLETS LOCATED WITHIN THE HAUL ROUTES) MUST BE PROTECTED WITH STORM SEWER INLET PROTECTION (I.E. INLET FILTERS) PER INLET PROTECTION DETAILS IN THE PLANS.
10. STABILIZATION OF DISTURBED AREAS MUST, AT A MINIMUM, BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING, OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NOT LATER THAN 14 DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA. EXCEPTIONS TO THESE TIME FRAMES ARE SPECIFIED AS FOLLOWS:
  - WHERE THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE.
  - ON AREAS WHERE CONSTRUCTION ACTIVITY CEASED AND WILL RESUME AFTER 14 DAYS, A TEMPORARY STABILIZATION METHOD CAN BE USED.
11. THE VILLAGE SHALL PROVIDE A QUALIFIED PERSON WHO WILL BE RESPONSIBLE FOR CONDUCTING SITE INSPECTIONS IN COMPLIANCE WITH THE ILRLO NPDES PERMIT. AFTER EACH INSPECTION, A REPORT SHOULD BE PREPARED BY THE PERSON WHO PERFORMED THE INSPECTION. THE INSPECTION REPORT SHOULD BE MAINTAINED ON SITE AS PART OF THE PLAN. INSPECTIONS SHOULD BE CONDUCTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM, OR BY THE END OF THE FOLLOWING BUSINESS OR WORK DAY, THAT IS 0.5 INCHES OR GREATER.

INSPECTIONS MAY BE REDUCED TO ONCE PER MONTH WHEN CONSTRUCTION ACTIVITIES HAVE CEASED DUE TO FROZEN CONDITIONS. INSPECTIONS MUST COMMENCE WHEN CONSTRUCTION ACTIVITIES ARE CONDUCTED, OR IF THERE IS A 0.5" OR GREATER RAIN EVENT, OR DISCHARGE DUE TO SNOWMELT OCCURS.

**CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500

CLIENT:  
**VILLAGE OF VILLA PARK**  
 20 S. Ardmore Ave.  
 Villa Park, IL 60181-2696

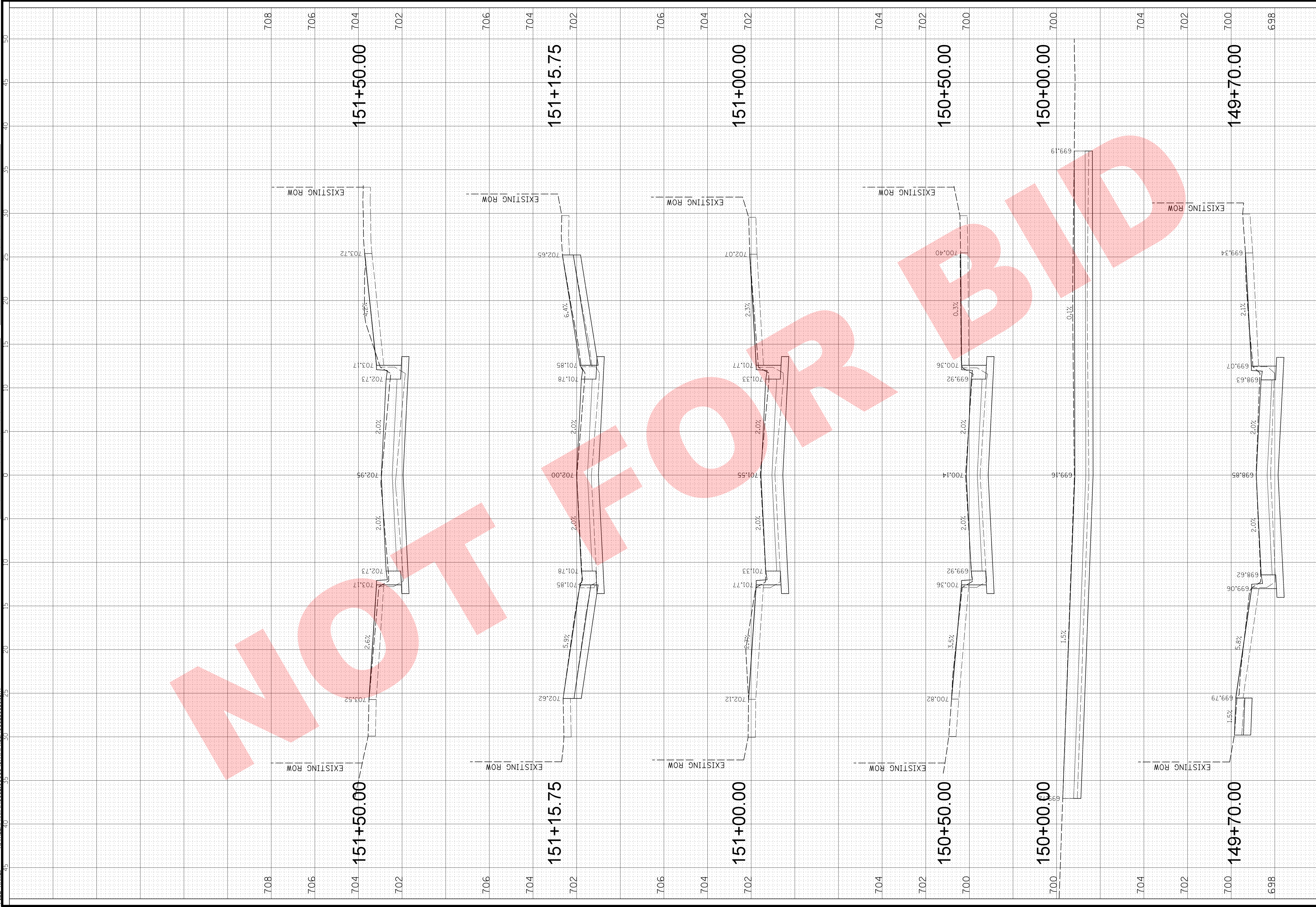
NO.	DATE	NATURE OF REVISION	CHKD.	MODEL:
				Default

TITLE:  
**SECOND AVENUE COMBINED SEWER SEPARATION PROJECT CONSTRUCTION DETAILS**

PROJ. NO. 140092.00009  
 DATE: 6/13/2018  
 SHEET 11 OF 18  
 DRAWING NO.  
**11**

FILE NAME: N:\VILLAGE PARK\140092\00009\G\IN\PKS\_140092\_09\_01.SHT

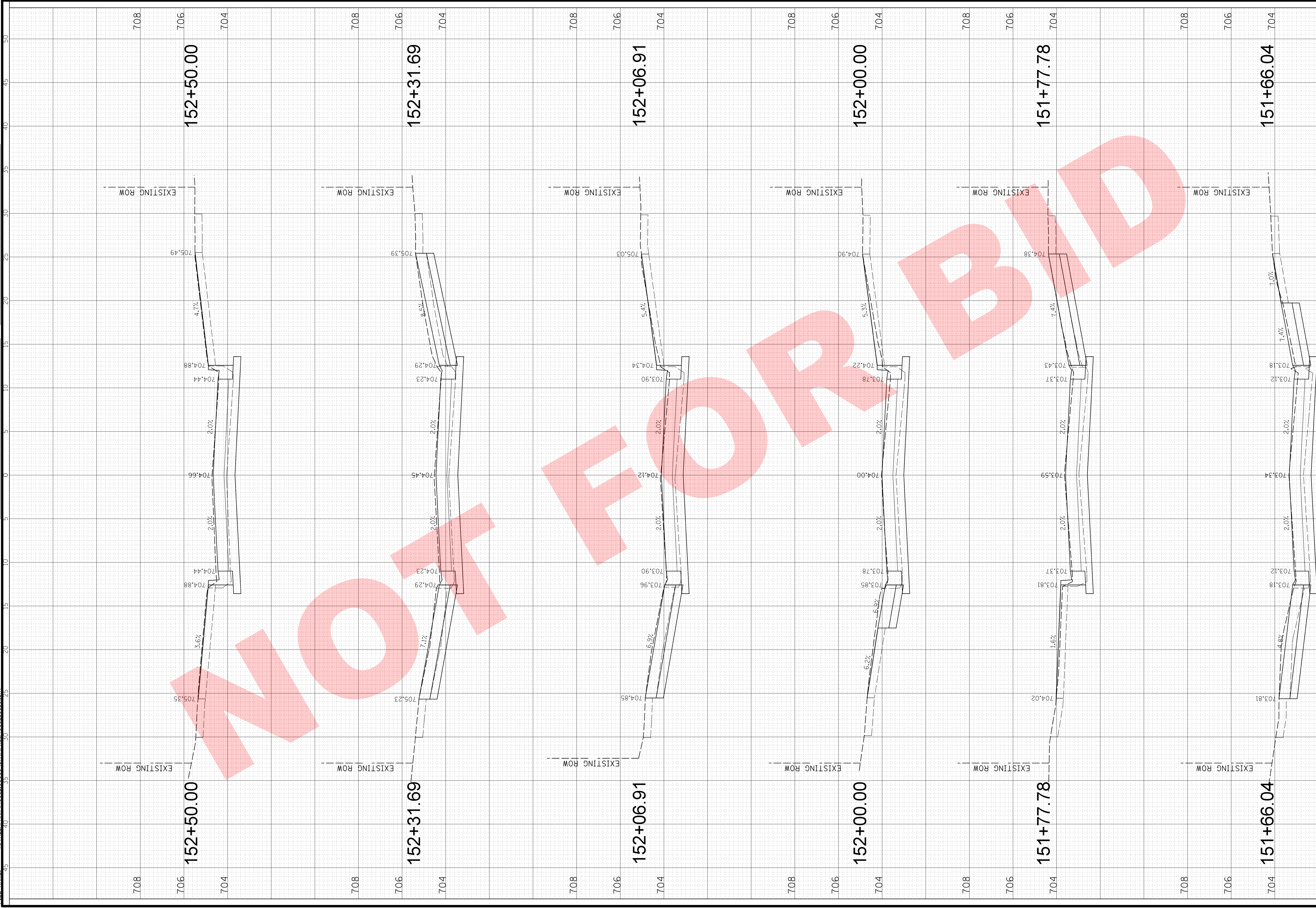
NO.	DATE	BY	DATE	CHKD.	DATE	BY	DATE	CHKD.



		<b>CLIENT:</b> VILLAGE OF VILLA PARK 20 S. Ardmore Ave. Villa Park, IL 60181-2696	
<b>CHRISTOPHER B. BURKE ENGINEERING, LTD.</b> 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500		<b>PROJECT:</b> VILLAGE OF VILLA PARK 20 S. Ardmore Ave. Villa Park, IL 60181-2696	
<b>PROJECT NO.:</b> 140092.00009 <b>DATE:</b> 6/13/2018 <b>SHEET:</b> 12 OF 18 <b>DRAWING NO.:</b>		<b>TITLE:</b> <b>SECOND AVENUE</b> <b>STA. 149+70.00 - STA. 151+50.00</b> <b>CROSS SECTIONS</b>	
<b>DSGN.:</b> DWN.	<b>AUS.:</b> A-US	<b>CHKD.:</b> AMP	<b>SCALE:</b> HORZ.: 5 VERT.: 2
<b>PLOT DATE:</b> 6/13/2018 <b>CAD USER:</b> gschaefer		<b>MODEL:</b> Default	

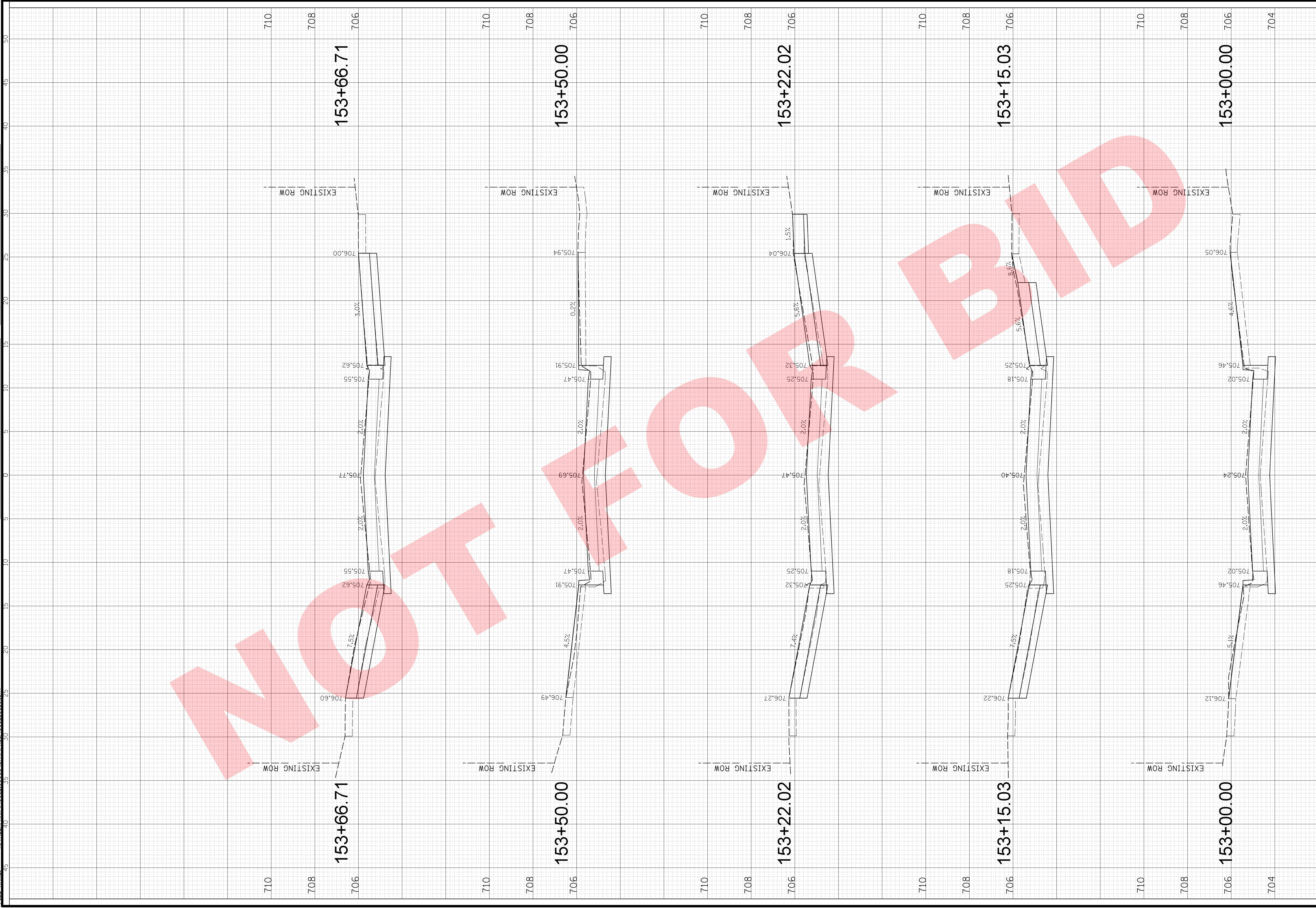
XS-1

NO.	DATE	BY	DATE	CHKD.	DATE	BY	DATE	CHKD.
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								



		<b>CHRISTOPHER B. BURKE ENGINEERING, LTD.</b> 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500				<b>VILLAGE OF VILLA PARK</b> 20 S. Ardmore Ave. Villa Park, IL 60181-2696		CLIENT:	
DSN. DWN.		CHD.		SCALE:		PLOT DATE:		CAD USER:	
AJS		AMP		HORZ. 5		VERT. 2		6/13/2018	
AJS		AMP		5		2		gschaefer	
Default		Default		Default		Default		Default	
PROJ. NO. 140092.00009		DATE: 6/13/2018		SHEET 13 OF 18		DRAWING NO.		XS-2	
TITLE:									
<b>SECOND AVENUE</b> <b>STA. 151+66.04 - STA. 152+50.00</b> <b>CROSS SECTIONS</b>									


NO.	DATE	BY	DATE	CHKD.	DATE	BY	DATE	CHKD.



PROJ. NO.	140092.00009
DATE:	6/13/2018
SHEET 14	OF 18
DRAWING NO.	

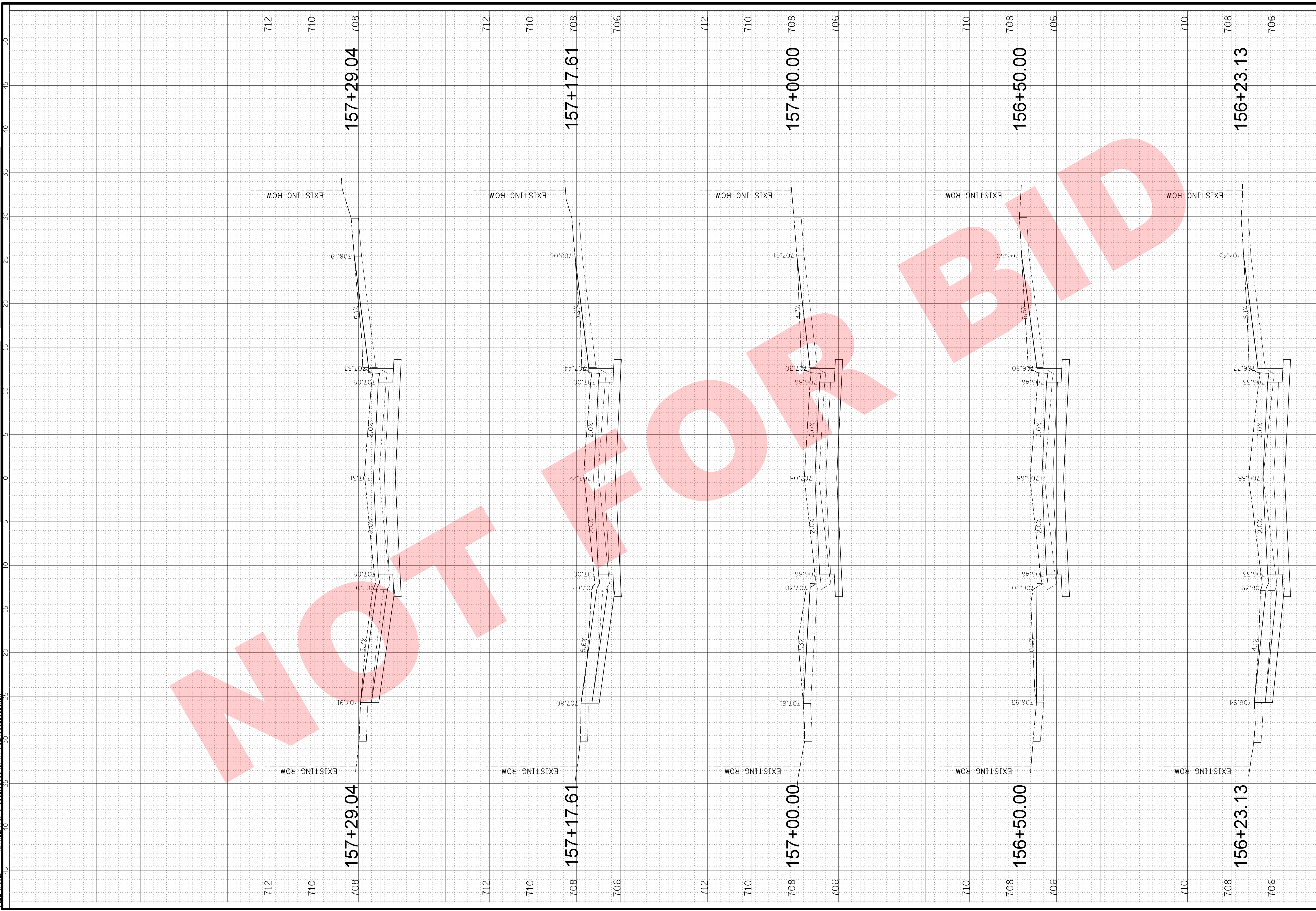
TITLE:		<b>SECOND AVENUE</b>	
STA. 153+00.00		<b>-STA. 153+66.71</b>	
CROSS SECTIONS			
DSGN.	AJS	CHKD.	AMP
DWN.	AJS	SCALE:	HORZ. 5
			VERT. 2
		PLOT DATE:	6/13/2018
		CAD USER:	gshaefer
		MODEL:	Default

CLIENT:  VILLAGE PARK  
 VILLAGE OF VILLA PARK  
 20 S Ardmore Ave  
 Villa Park, IL 60181-2696

 **CHRISTOPHER B. BURKE ENGINEERING, LTD.**  
 9575 W. Higgins Road, Suite 600  
 Rosemont, Illinois 60018  
 (847) 823-0500



NO.	DATE	BY	CHKD.	DESC.



		<b>CHRISTOPHER B. BURKE ENGINEERING, LTD.</b> 9575 W. Higgins Road, Suite 600 Rosemont, Illinois 60018 (847) 823-0500	
		<b>CLIENT:</b> VILLAGE OF VILLA PARK 20 S. Ardmore Ave. Villa Park, IL 60181-2696	
DSN. DWN. CHKD. SCALE: PLOT DATE: CAD USER: MODEL:	AUS AUS AMP HORZ.: 5 VERT.: 2 6/13/2018 gschaefer	TITLE: <b>SECOND AVENUE</b> STA. 156 + 23.13 - STA. 157 + 29.04 <b>CROSS SECTIONS</b>	PROJ. NO. 140092.00009 DATE: 6/13/2018 SHEET 16 OF 18 DRAWING NO.



