

VILLAGE OF VILLA PARK, ILLINOIS

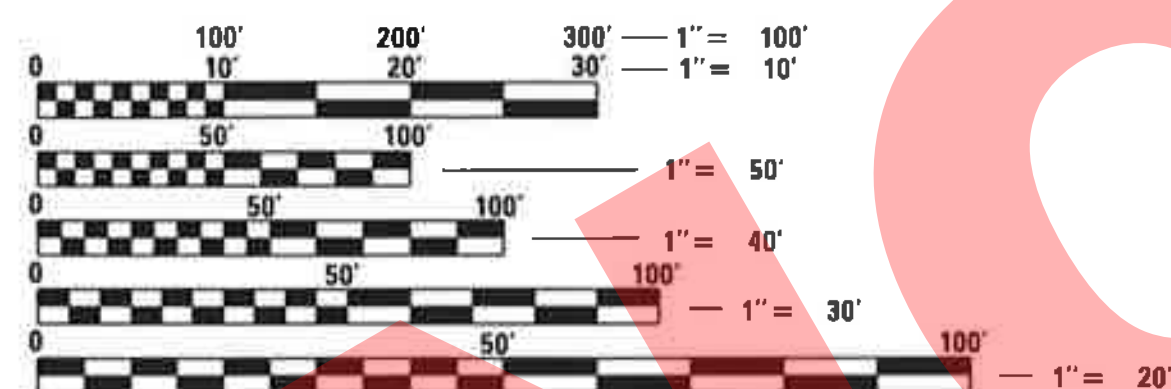
FRONTAGE ROAD RETAINING WALL REPLACEMENT NORTH OF EAST SUNSET DRIVE DuPAGE COUNTY

INDEX OF DRAWINGS

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5	RETAINING WALL SECTIONS
6	VILLAGE OF VILLA PARK DETAILS

VILLAGE OF VILLA PARK DETAILS

ROAD-02 COMBINATION CONCRETE CURB AND GUTTER



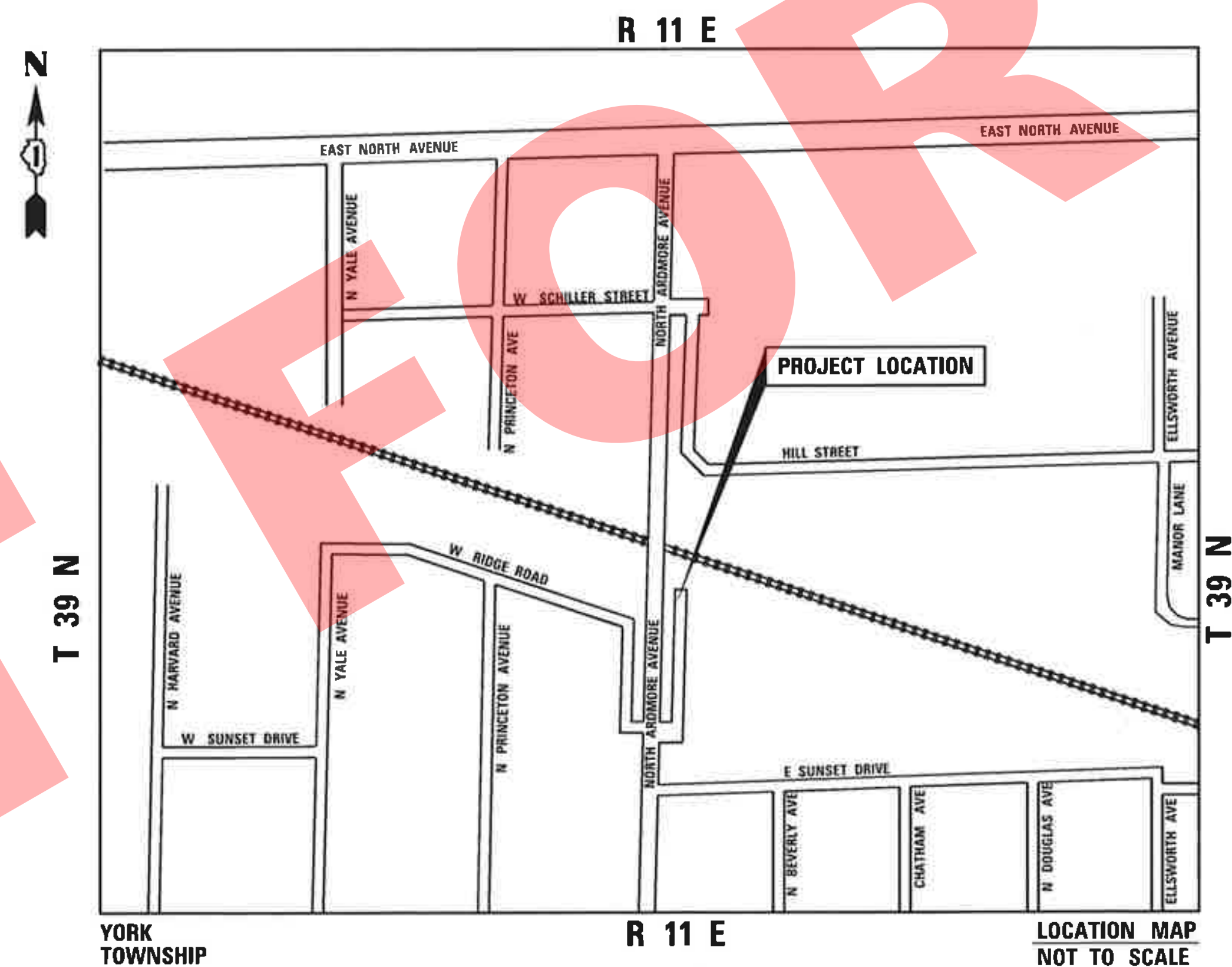
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811



GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS AND SECTIONS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (REFERRED TO AS THE "STANDARD SPECIFICATIONS"), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "MANUAL OF TEST PROCEDURES FOR MATERIALS" AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS".
- THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS REPRESENTS ONLY THE OPINION OF THE ENGINEER AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER AND THE ACCURACY IS NOT GUARANTEED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES, INCLUDING SPRINKLER SYSTEMS, EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL NOTIFY PUBLIC WORKS AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK TO OBTAIN VILLAGE UTILITY LOCATIONS.
- CONTRACTOR SHALL NOTIFY J.U.L.I.E. (1-800-892-0123) 48 HOURS PRIOR TO EXCAVATION WORK.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND LOCATE THE EXISTING UTILITIES TO VERIFY THEIR LOCATION, SIZE, AND DEPTH TO INSURE THAT GRADE CONFLICTS WILL NOT OCCUR. THE COST OF THIS EXPLORATION SHALL BE PAID FOR AS EXPLORATION TRENCH, SPECIAL IF DETERMINED NECESSARY BY THE ENGINEER. ALL OTHER EXPLORATION WILL BE AT THE CONTRACTOR'S EXPENSE.
- ACCESS TO PRIVATE DRIVEWAYS SHALL BE UNBLOCKED AT ALL TIMES
- ANY ANTI-STRIPPING ADDITIVE REQUIRED SHALL BE INCLUDED IN THE COST OF THE SURFACE COURSE.
- EXISTING GROUND CONTOURS AND ELEVATIONS WERE DETERMINED FROM AVAILABLE PLANS AND FIELD SURVEYS. AS DIRECTED BY THE ENGINEER, PROPOSED GROUND ELEVATIONS MAY BE REVISED TO MEET FIELD CONDITIONS.



Christopher J. Barke
Exp. 11/30/2018

VILLAGE OF VILLA PARK, ILLINOIS

APPROVED *Vydas Juskeles*
02/12/2018
DIRECTOR OF PUBLIC WORKS

SP	ITEM NO.	IDOT REF. NO.	ITEM	UNIT	QUANTITY	ALT 1	ALT 2
	1	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	8		
	2	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	20		
	3	20200100	EARTH EXCAVATION	CU YD	6		
	4	20900110	POROUS GRANULAR BACKFILL	CU YD	10		
	• 5		PARKWAY RESTORATION	SO YD	58		
	• 6	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUNDS	27		
	7	40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	1.3		
	8	44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SO YD	12		
	9	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	49		
	10	44213200	SAW CUTS	FOOT	52		
	11	50200100	STRUCTURE EXCAVATION	CU YD	13		
	12	51201400	FURNISHING STEEL PILES HP10X42	FOOT	117		
	13	52200200	DRILLING AND SETTING SOLDIER PILES (IN SOIL)	CU FT	277		
	14	52200255	TREATED TIMBER LAGGING	SO FT	-		241
	15	60100085	GEOTECHNICAL FABRIC FOR FRENCH DRAINS	SO YD	63		
	16	60100905	PIPE DRAINS 4"	FOOT	53		
	• 17	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	50		
	• 18	X6064200	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL)	FOOT	49		
	• 19	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1		
	• 20	Z0013798	CONSTRUCTION LAYOUT	L SUM	1		
	• 21		PRECONSTRUCTION VIDEO RECORDING	L SUM	1		
	• 22	Z0075505	TIMBER RETAINING WALL REMOVAL	FOOT	57		
	• 23		CONTINGENCY ALLOWANCE	UNIT	5,000		
	• 24		CONCRETE PANEL 6"	SO FT	-		241

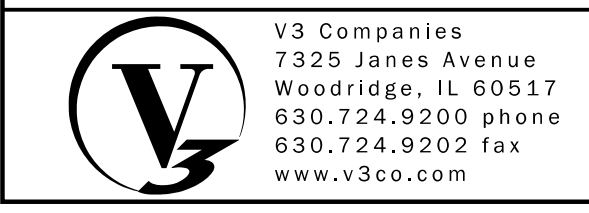
ALTERNATIVES

ALTERNATIVE 1 - RETAINING WALL IS CONSTRUCTED OF 6" CONCRETE PANEL

ALTERNATIVE 2 - RETAINING WALL IS CONSTRUCTED OF 6"X6" TREATED TIMBER LAGGING

NOT FOR BID

• SPECIALTY ITEM



USER NAME = obadur
 PLOT SCALE = 1.0000' / 1in.
 PLOT DATE = 2/6/2018

DESIGNED - CB
 DRAWN - DP
 CHECKED - PM
 DATE - 02/06/2018

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ARDMORE AVENUE RETAINING WALL

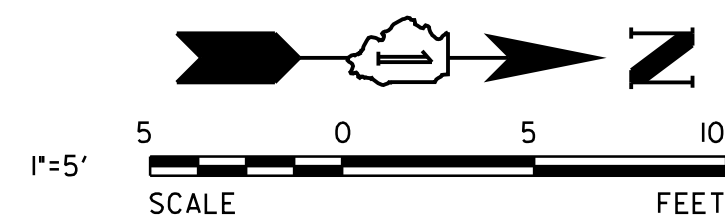
VILLA PARK

ILLINOIS

SUMMARY OF QUANTITIES

SCALE: NTS SHEET NO. 1 OF 1 SHEETS

COUNTY	TOTAL SHEETS	SHEET NO.
LAKE	6	2
JOB NO. 16044		



BENCHMARK

SOURCE:
 STATION DESIGNATION: VILLAGE OF VILLA PARK BENCHMARK #14
 ESTABLISHED BY: VILLAGE OF VILLA PARK
 DATE: 06/28/2002

ELEVATION: 671.83 (PUBLISHED AND HELD)
 DATUM: NGVD29
 DESCRIPTION: BRONZE DISK ON TOP OF THE WEST HEADWALL OF THE THE EAST POND AT NORTH PARK WHERE ARDMORE AVENUE DEAD ENDS NORTH OF NORTH AVENUE.

STATION DESIGNATION: VILLAGE OF VILLA PARK BENCHMARK #2
 ESTABLISHED BY: VILLAGE OF VILLA PARK

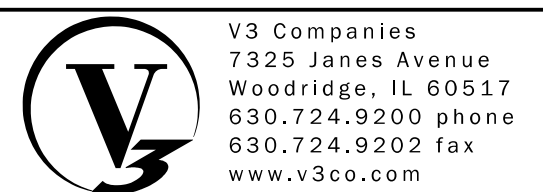
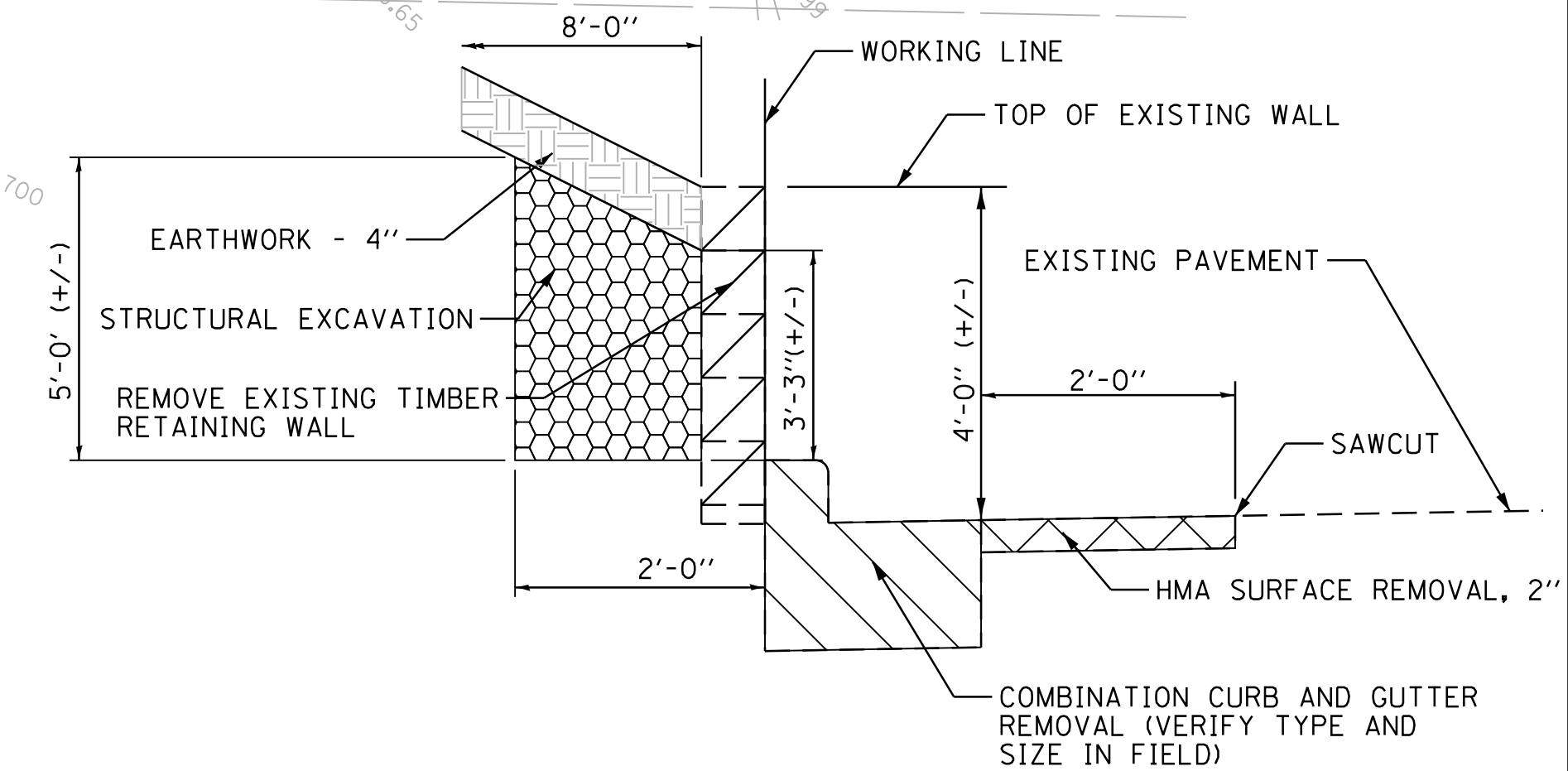
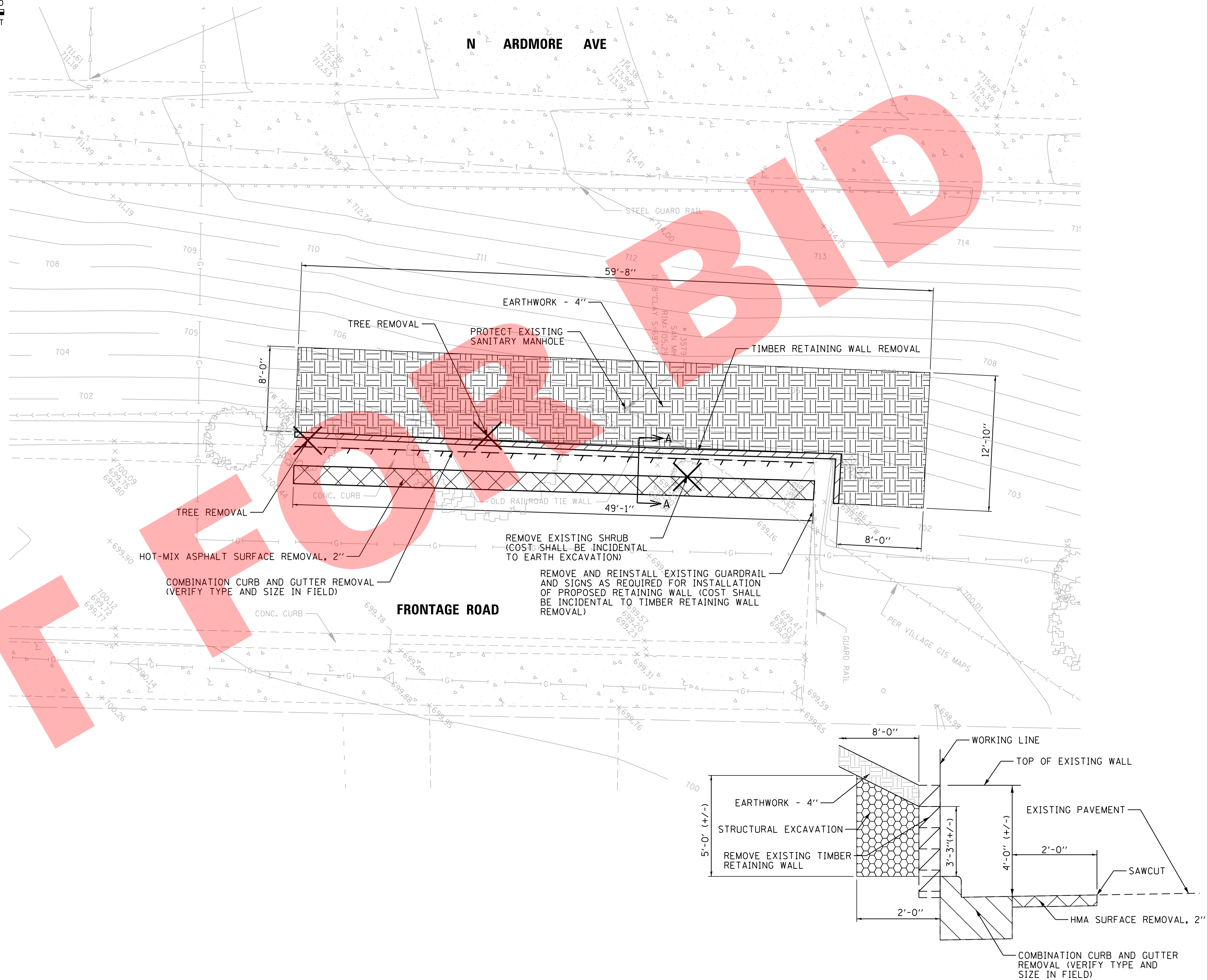
ELEVATION: 679.86 (PUBLISHED)
 DATUM: NGVD29
 DESCRIPTION: BRONZE DISK IN CONCRETE BASE OF TRAFFIC SIGNAL AT SOUTHWEST CORNER OF VILLA AVENUE AND NORTH AVENUE.

SITE:
 STATION DESIGNATION: SBM #1
 ESTABLISHED BY: V3 COMPANIES OF ILLINOIS, LTD.
 DATE: 08/02/07

ELEVATION: 708.73 (MEASURED)
 DATUM: NGVD29
 DESCRIPTION: CUT SQUARE IN LIGHT STANDARD BASE (SOUTHWESTERLY), FIRST LIGHT STANDARD BASE NORTH OF ARDMORE BRIDGE ON EAST SIDE OF ARDMORE AVENUE.
 N 1907481.35
 E 1080816.06

STATION DESIGNATION: SBM #2
 ESTABLISHED BY: V3 COMPANIES OF ILLINOIS, LTD.
 DATE: 08/02/07

ELEVATION: 709.11 (MEASURED)
 DATUM: NGVD29
 DESCRIPTION: CUT SQUARE IN LIGHT STANDARD BASE (EAST), FIRST LIGHT STANDARD BASE SOUTH OF BRIDGE ON WEST SIDE OF ARDMORE AVENUE.
 N 1907034.05
 E 1080746.67

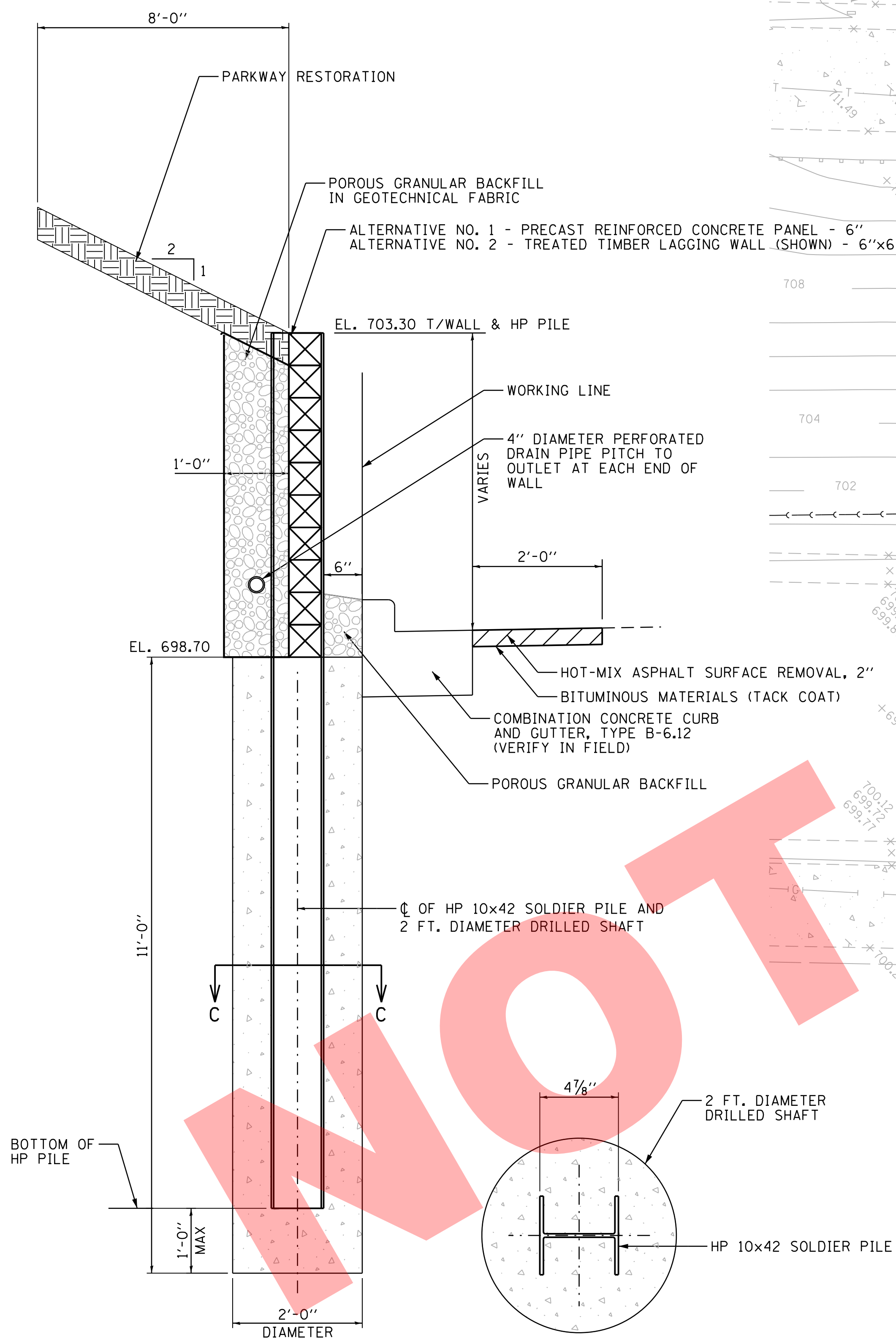
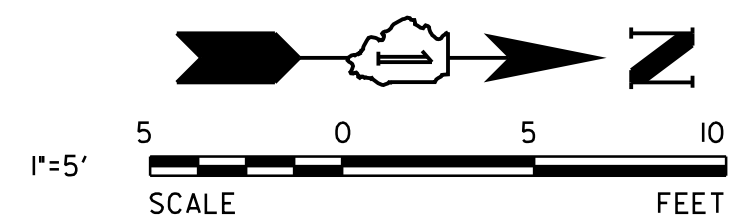


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	DATE - 02/06/2018	REVISED -	REVISED -

ARDMORE AVENUE RETAINING WALL
 VILLA PARK ILLINOIS

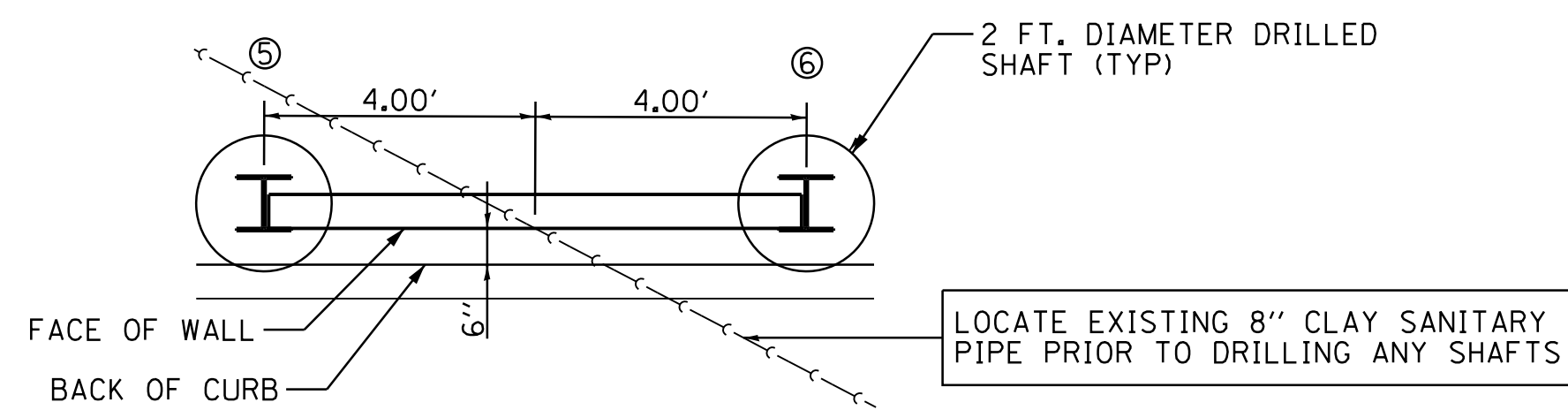
REMOVAL PLAN AND SECTIONS
 SCALE: 1" = 5' SHEET NO. 1 OF 1 SHEETS

COUNTY	TOTAL SHEETS	SHEET NO.
LAKE	6	3
JOB NO. 16044		

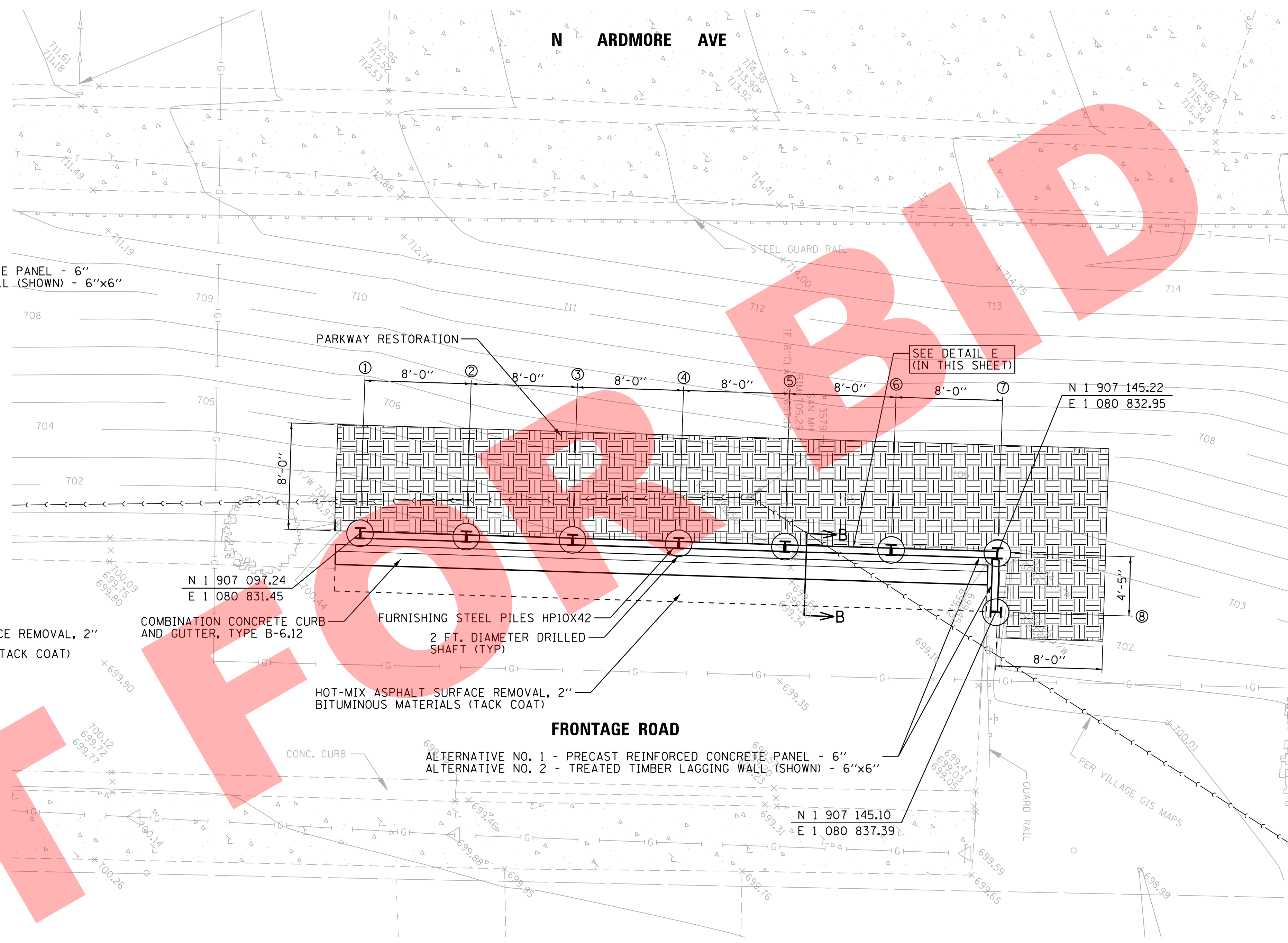


SECTION B-B
SCALE: NTS

SECTION C-C
SCALE: NTS

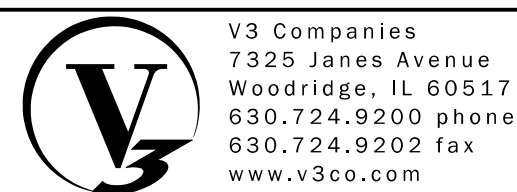


DETAIL E
SCALE: NTS



LOCATIONS OF SOLDIER PILES

	①	②	③	④
N	1 907 097.24	1 907 105.24	1 907 113.23	1 907 121.23
E	1 080 831.45	1 080 831.70	1 080 831.95	1 080 832.45
	⑤	⑥	⑦	⑧
N	1 907 129.23	1 907 137.22	1 907 145.22	1 907 145.10
E	1 080 832.45	1 080 832.70	1 080 832.95	1 080 837.39



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7325 Janes Avenue
Woodridge, IL 60517
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630.724.9202 fax
www.v3co.com

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ARDMORE AVENUE RETAINING WALL

VILLA PARK

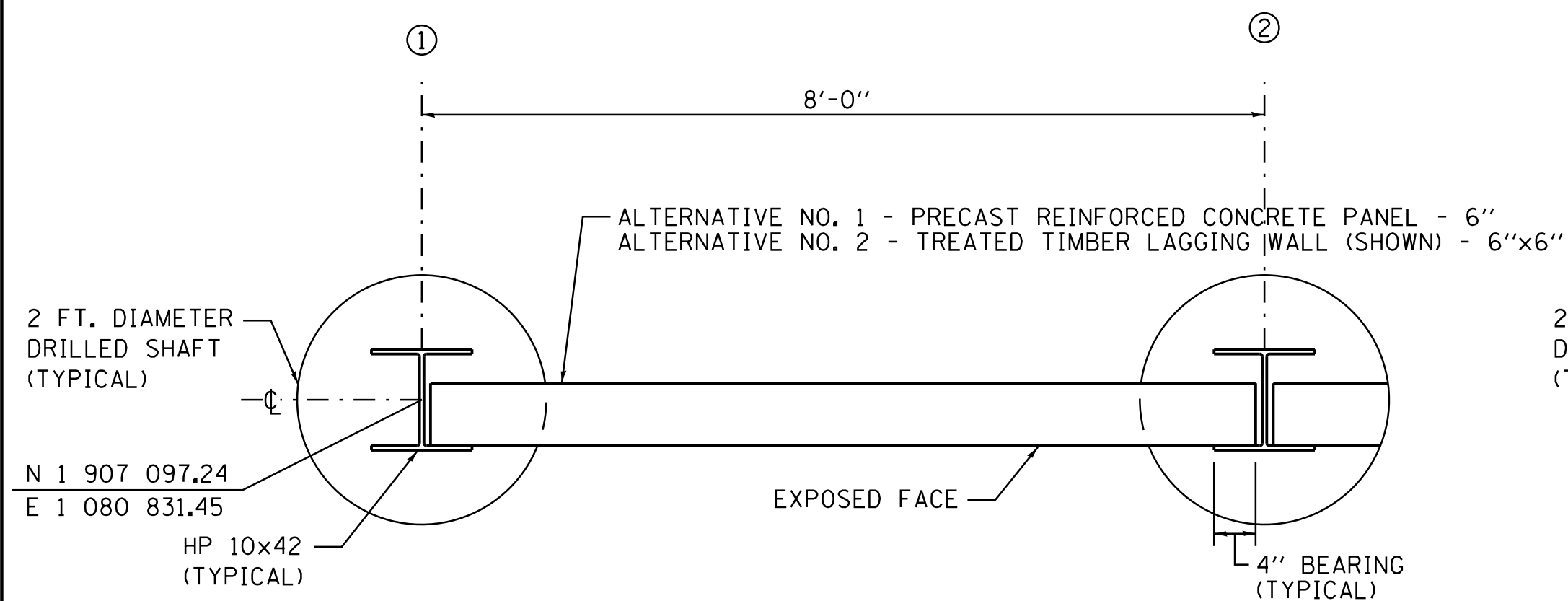
ILLINOIS

PROPOSED PLAN AND SECTIONS

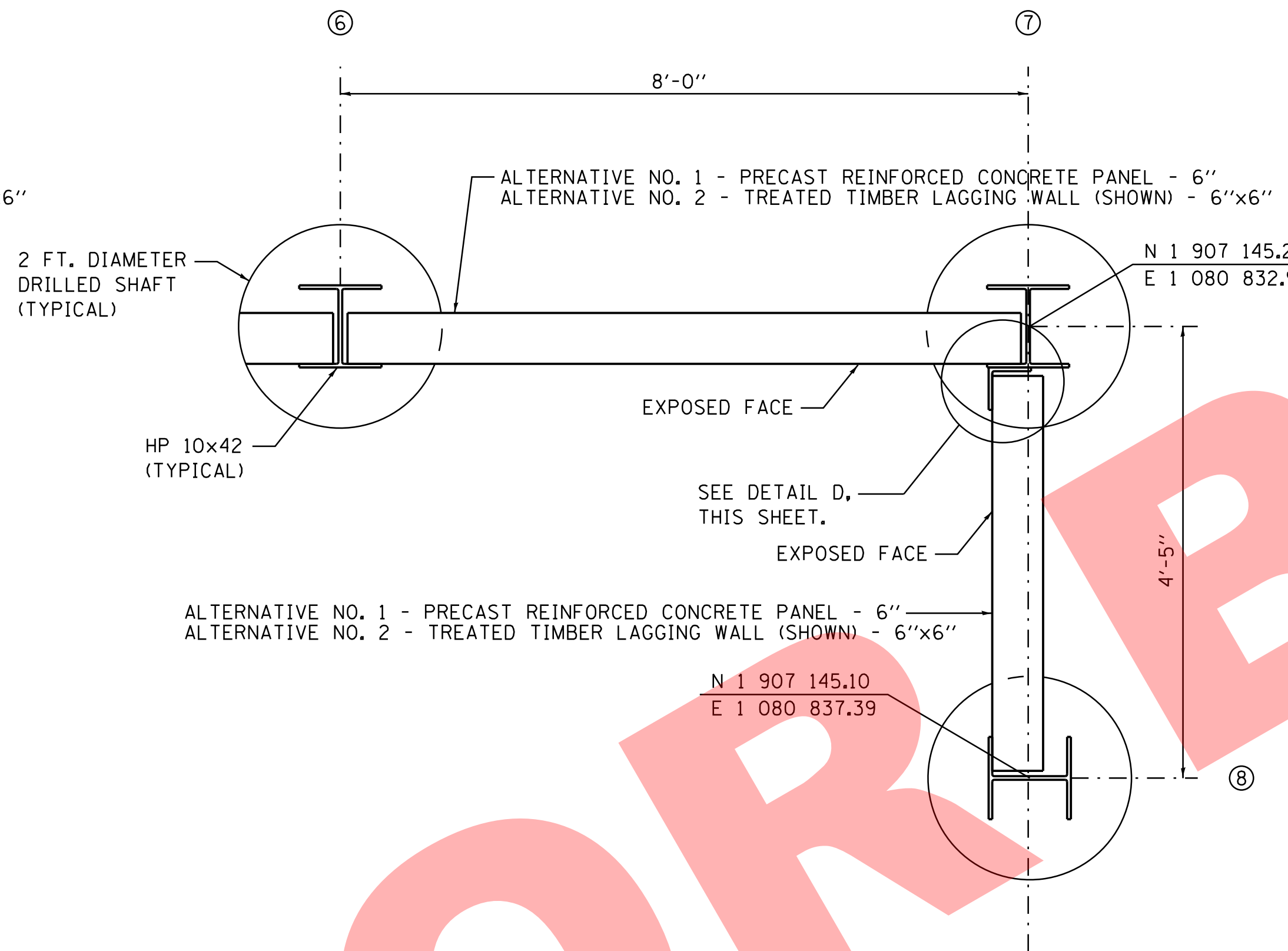
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SHEET NO. 1 OF 1 SHEETS

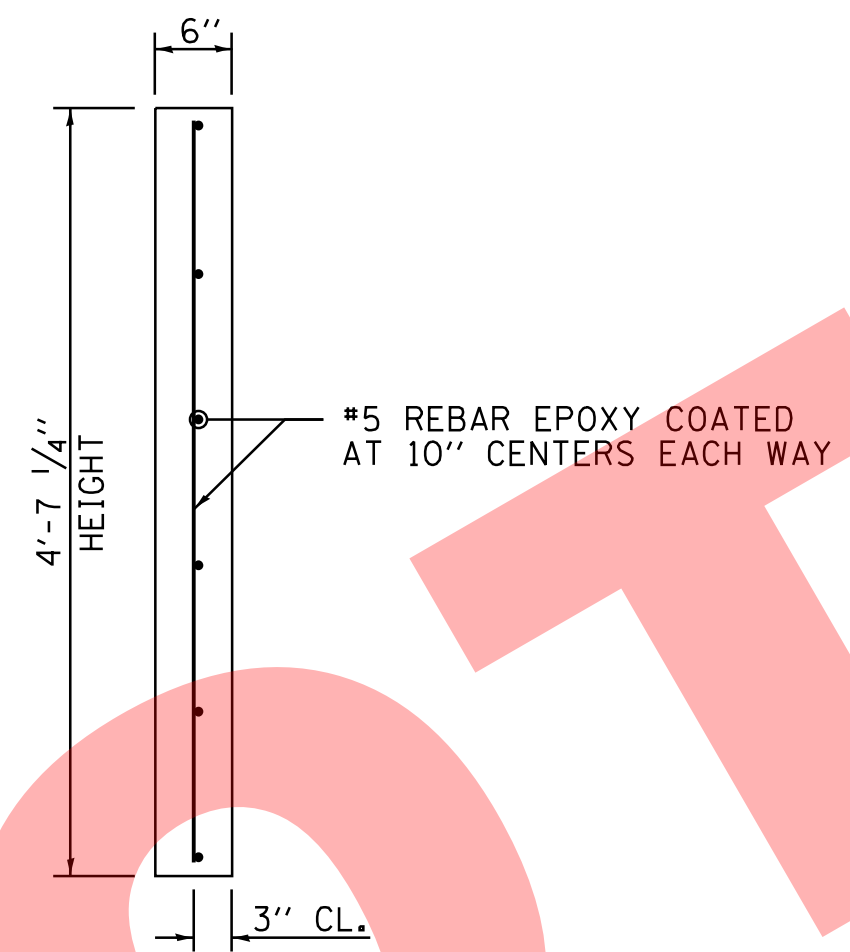
COUNTY	TOTAL SHEETS	SHEET NO.
LAKE	6	4
JOB NO. 16044		



PLAN - TYPICAL
SOLDIER PILE LAYOUTS
 SCALE: NTS

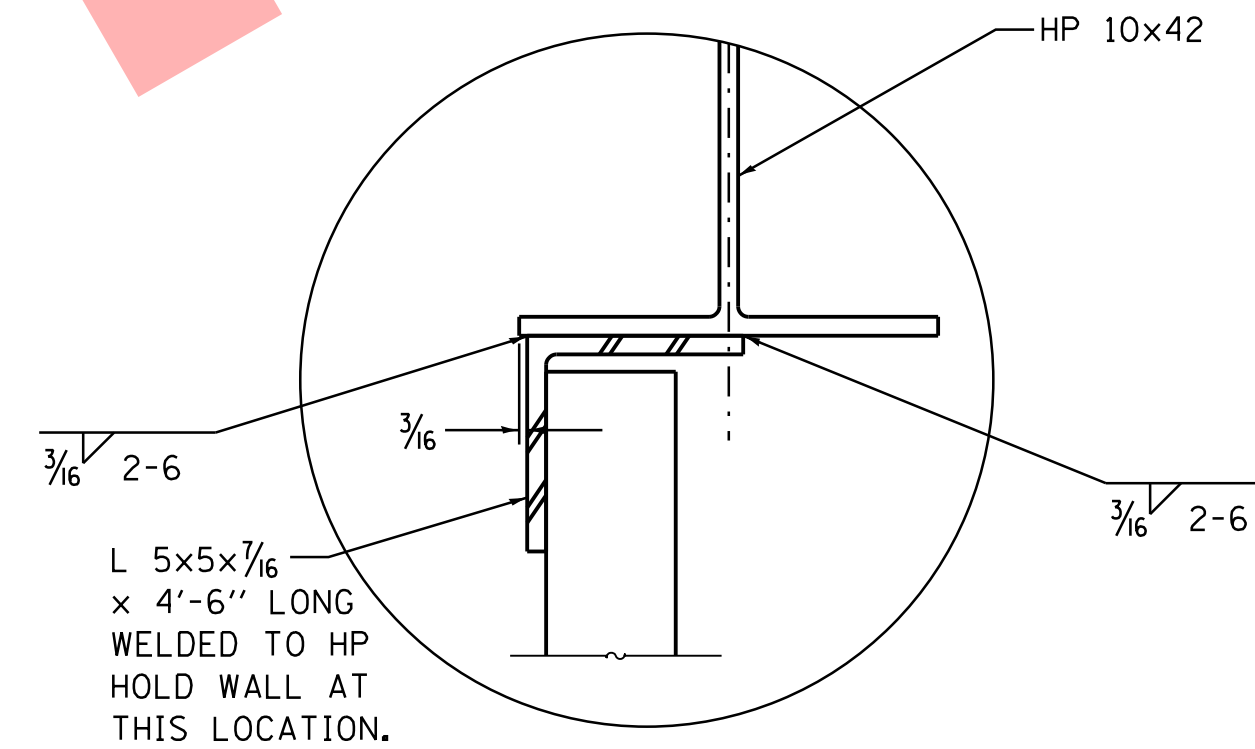


PLAN OF SOLDIER PILE
LAYOUT AT CORNER
 SCALE: NTS



ALTERNATIVE NO. 1
PRECAST REINFORCED
CONCRETE PANEL
 SCALE: NTS

NOTE:
 USE OF MULTIPLE PANELS THAT
 TOTAL 4'-7 1/4" IN HEIGHT
 IS ALSO ACCEPTABLE. PANELS
 MUST BE UNIFORM HEIGHT.



DETAIL D
 SCALE: NTS

STRUCTURAL NOTES

- CONTRACTOR TO SEE ARTICLE 522.08 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION FOR ADDITIONAL INFORMATION ON SOLDIER PILE RETAINING WALLS.
- CONTRACTOR TO VERIFY LOCATIONS, DIMENSIONS AND ELEVATIONS PRIOR TO BIDDING, ORDERING MATERIAL AND/OR STARTING CONSTRUCTION.
- ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL WITH A MINIMUM SAFE BEARING CAPACITY OF 2000 PSF. THE CONTRACTOR SHALL HAVE THE BEARING CAPACITY VERIFIED BY A QUALIFIED TESTING AGENCY.
- CONCRETE FOR DRILLED SHAFTS SHALL BE IDOT CLASS DS. CONCRETE FOR ALTERNATE NO. 1 PRECAST REINFORCED CONCRETE PANEL SHALL BE IDOT CLASS PC WITH A MINIMUM FLEXURAL STRENGTH OF 3500 P.S.I.
- CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" EXCEPT AS NOTED.
- REINFORCEMENT SHALL BE ASTM A706. ALL REINFORCEMENT SHALL BE EPOXY COATED.
- ALL INSERTS USED FOR THE FABRICATIONS OR LIFTING OF ALTERNATE NO. 1 PRECAST REINFORCED CONCRETE PANEL SHALL NON-CORROSIVE AND SHALL NOT BE EXPOSED TO VIEW WHEN THE PANELS ARE INSTALLED IN FINAL POSITION IN THE FIELD.
- STRUCTURAL STEEL TO CONFORM TO THE REQUIREMENTS OF AASHTO M270, GRADE 36.
- FIELD WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER AND MADE WITH E70XX ELECTRODES.
- ALL STRUCTURAL STEEL TO RECEIVE ONE COAT PRIMER AND TWO TOP COATS OF PAINTS. COLOR TO BE LIGHT GREY.
- ALL WOOD SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION SOUTHERN PINE OR DOUGLAS FIR GRADE NO. 2 OR BETTER.
 FB = 900 PSI, FV = 175 PSI, EW = 1.4 X 10 PSI. ONLY ONE SPECIES OF WOOD SHALL BE USED FOR THE ENTIRE WALL.
- ALL WOOD SHALL BE PRESSURE TREATED TO RESIST DECAY PER ARTICLE 1007.12 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- ALL UTILITY LOCATIONS SHALL BE VERIFIED BY THE TRADE DOING THE WORK AND ANY DISCREPANCIES OF LOCATION BE REPORTED TO ENGINEER BEFORE CONSTRUCTION BEGINS.
- ANY DISCREPANCIES, CONFLICTS, OR AMBIGUITIES ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. FAILURE TO DO SO WILL NOT RELIEVE CONTRACTOR OF ADDITIONAL COSTS REGARDING THE ABOVE ITEMS.
- CONTRACTOR TO COORDINATE CONSTRUCTION ACTIVITIES WITH THE VILLAGE AND THE LOCAL HOMEOWNERS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION. SHORING, EARTH RETENTION AS REQUIRED FOR STABILITY OF THE EXISTING AND PROPOSED CONSTRUCTION IS THE CONTRACTOR'S RESPONSIBILITY.
- THE CONTRACTOR SHALL PROTECT EXISTING CONSTRUCTION THAT IS TO REMAIN IN PLACE. FAILURE TO DO SO DOES NOT RELIEVE THE CONTRACTOR FROM THE EXPENSE OF THE REPAIR AND/OR REPLACEMENT OF THESE ITEMS TO THE OWNERS SATISFACTION.
- FOR BENCHMARKS SEE REMOVAL PLAN AND SECTIONS SHEET.



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ARDMORE AVENUE RETAINING WALL

RETAINING WALL SECTIONS

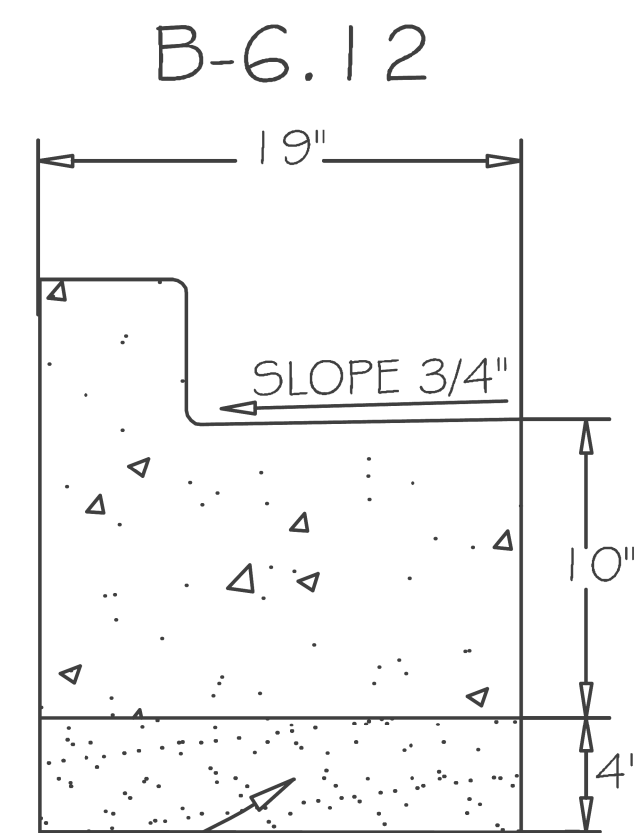
VILLA PARK

ILLINOIS

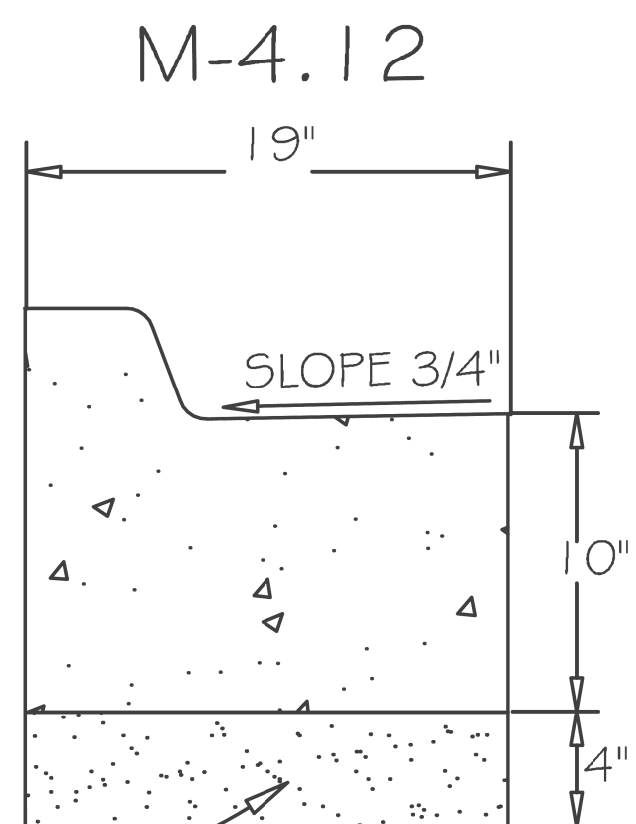
SCALE: 1" = 5'

SHEET NO. 1 OF 1 SHEETS

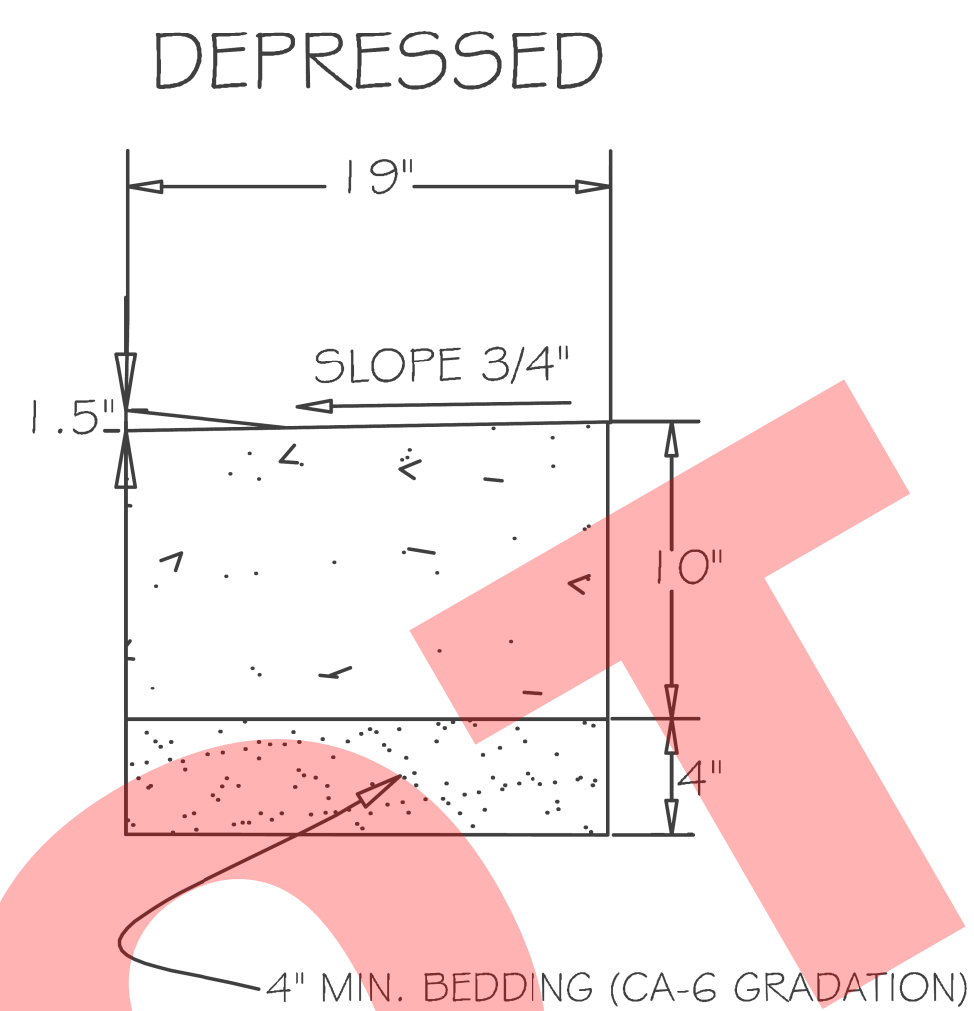
COUNTY	TOTAL SHEETS	SHEET NO.
LAKE	6	5
JOB NO. 16044		



4" MIN. BEDDING (CA-6 GRADATION)



4" MIN. BEDDING (CA-6 GRADATION)



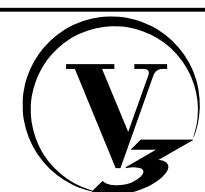
4" MIN. BEDDING (CA-6 GRADATION)

GENERAL NOTES:

1. CONTRACTION JOINTS SHALL BE PLACED BETWEEN EXPANSION JOINTS AT 15' INTERVALS.
2. EXPANSION JOINTS ARE TO BE PLACED AT 60' INTERVALS. 2-#6 X 18" REBARSTO BE PLACED AT ALL EXPANSION JOINTS.

NOT TO SCALE

REV:	DATE:	COMBINATION CONCRETE CURB AND GUTTER	VILLAGE OF VILLA PARK ROAD - 02
REV: RMS	DATE: JUL 2004		
DRAWN BY: VV	DATE: JAN 2003		



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ARDMORE AVENUE RETAINING WALL

VILLA PARK

ILLINOIS 1

SCALE: NTS SHEET NO. 1 OF 1 SHEETS

VILLAGE OF VILLA PARK DETAILS

COUNTY	TOTAL SHEETS	SHEET NO.
LAKE	6	6
JOB NO. 16044		