

FINAL ENGINEERING PLANS

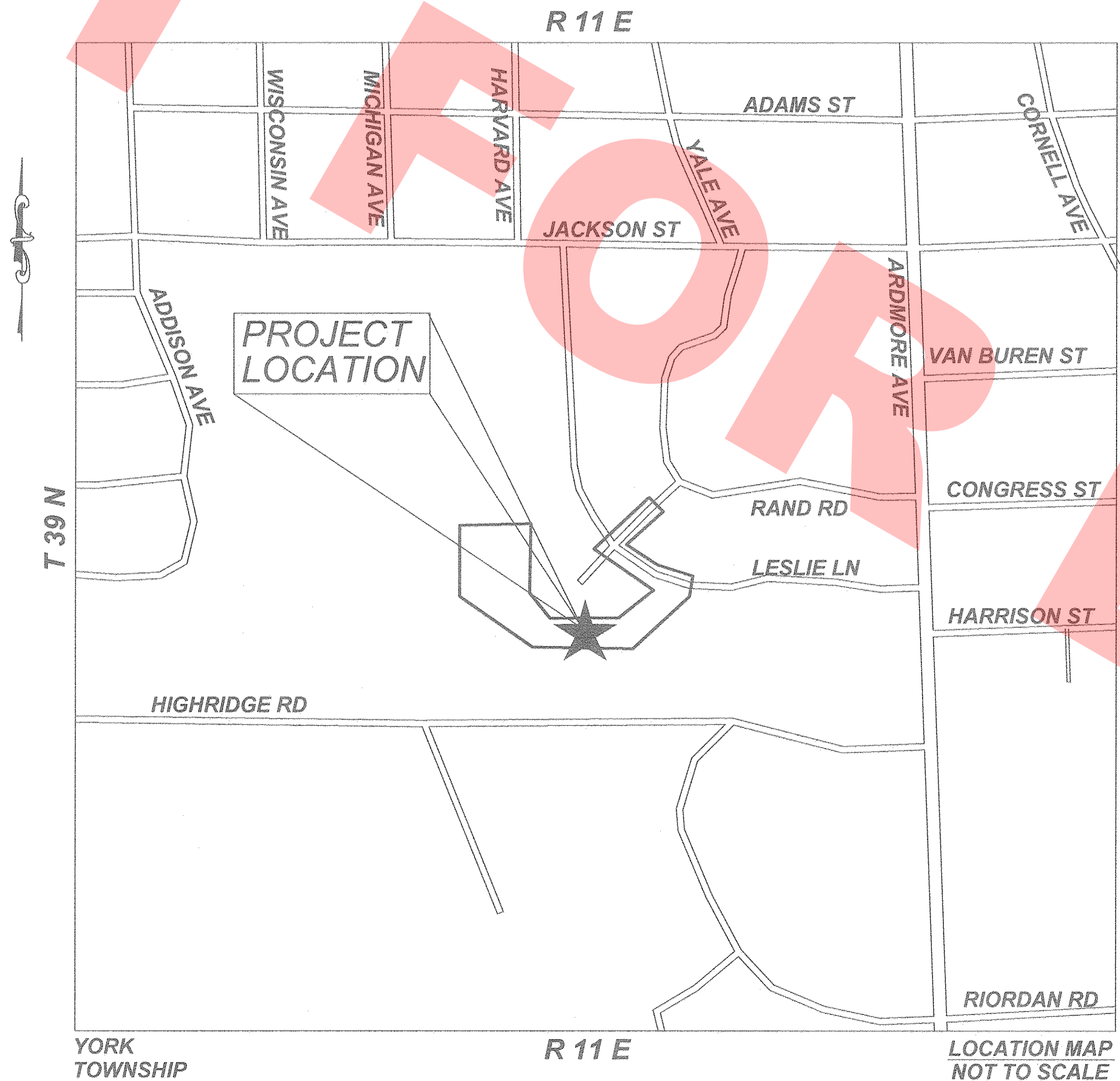
FOR

# JACKSON POND OUTLET

FOR INDEX OF SHEETS, SEE SHEET 1

VILLA PARK, DUPAGE COUNTY, ILLINOIS

BENCHMARKS	
SOURCE: BENCHMARKS ESTABLISHED & HELD VIA TRIMBLE VRS HARN NETWORK. PROJECT ORIGIN AT: LATITUDE: 41-52-18.08144 N LONGITUDE: 87-59-06.34961 W ELLIPSOID HEIGHT: 610.674 GROUND SCALE FACTOR 1.0000438605 VERTICAL DATUM IS NAVD88 .	
SITE:	
STATION DESIGNATION: SBM#1 ESTABLISHED BY: V3 COMPANIES DATE: 11-18-16	
ELEVATION: 706.08 (PUBLISHED AND MEASURED) DATUM: NAVD88 DESCRIPTION: ENE BOLT ON FIRE HYDRANT AT NORTHEAST CORNER OF W. MADISON STREET AND S. MICHIGAN AVENUE INTERSECTION.	
STATION DESIGNATION: SBM#2 ESTABLISHED BY: V3 COMPANIES DATE: 11-18-16	
ELEVATION: 705.44 (MEASURED) DATUM: NAVD88 DESCRIPTION: WNW BOLT ON FIRE HYDRANT AT NORTHWEST CORNER OF S. MICHIGAN AVENUE AND W. JACKSON STREET INTERSECTION.	
LOCAL CONTROL:	
ID: 101 DESCRIPTION: SET MAG NAIL LOCATION: 1894882.57, 1079862.52 ELEVATION: 681.41	
ID: 155 DESCRIPTION: SET MAG NAIL LOCATION: 1895280.12, 1079006.95 ELEVATION: 704.66	



LOCATION MAP NOT TO SCALE

Call Before You Dig

**JULIE**

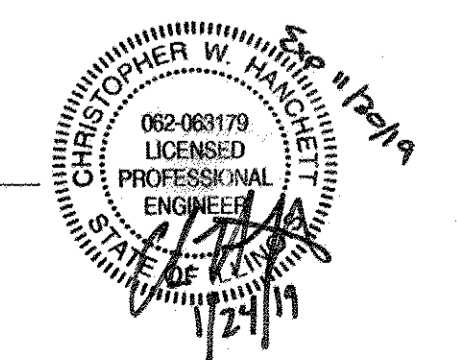
800.892.0123

Call 48 hours before you dig

Joint Utility Locating Information for Excavators

*C. W. Hanchett*

CHRISTOPHER W. HANCHETT, P.E.  
#062-063179  
EXP. DATE: 11/30/2019



**GENERAL NOTES**

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS 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.
- ALL FRAME AND LID CASTINGS LOCATED WITHIN THE PAVEMENT WHICH REQUIRE RESETTING TO FINISH GRADE SHALL BE BACKFILLED WITH CLASS PP-1 CONCRETE AND ALLOWED TO CURE FOR 72 HOURS PRIOR TO PLACEMENT OF SURFACE COURSE. HMA MATERIALS WILL NOT BE ALLOWED AS BACKFILL AROUND AN ADJUSTED CASTING. THIS WORK SHALL APPLY TO ALL CASTINGS ADJUSTED, RECONSTRUCTED OR NEWLY INSTALLED AS PART OF THIS CONTRACT, WHETHER PAID FOR SEPARATELY OR INCLUDED IN OTHER CONTRACT WORK.
- STORM STRUCTURE OFFSET LOCATIONS ARE TO THE EDGE OF PAVEMENT IF THE STRUCTURE IS IN THE CURB LINE OR TO THE CENTER OF STRUCTURE IF THE STRUCTURE IS NOT IN THE CURBLINE.
- FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES SHALL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF COST OF THE STRUCTURE.
- 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.
- ALL SIGNS THAT HAVE TO BE TEMPORARILY REMOVED AS PART OF THE CONSTRUCTION PROCESS OR RELOCATED DUE TO INSUFFICIENT OFFSET TO PROPOSED CURB ARE TO BE REINSTALLED AT THE SAME STATION.

**INDEX OF DRAWINGS**

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**LEGEND**

EXISTING	PROPOSED	DESCRIPTION
		RIGHT-OF-WAY LINE
		PROPERTY LINE (EXTERIOR)
		LOT LINE (INTERIOR)
		EASEMENT LINE
		FENCE LINE
		CENTERLINE
		PROPERTY CORNER
		CONTOUR
		CURB & GUTTER
		DEPRESSED CURB & GUTTER
		REVERSE PITCHED CURB
		SPOT ELEVATION
		TOP OF CURB ELEVATION
		EDGE OF PAVEMENT ELEVATION
		UTILITY STUB
		SANITARY SEWER
		SANITARY FORCE MAIN
		STORM SEWER
		WATER MAIN
		GAS MAIN
		UNDERGROUND TELEPHONE & ELECTRIC DUCT BANK
		BURIED CABLE-ELECTRIC
		BURIED CABLE-TELEPHONE
		ATLAS LOCATED UTILITY
		UTILITY STRUCTURE WITH CLOSED LID
		CURB INLET
		DRAINAGE STRUCTURE WITH OPEN LID
		FIRE HYDRANT
		VALVE IN VALVE BOX
		GATE VALVE IN VALVE VAULT
		POST INDICATOR VALVE
		THRUST BLOCK
		TREE
		TREE LINE
		CONCRETE HEADWALL
		SUBMERGED HEADWALL
		FLARED END SECTION (F.E.S.)
		GUY WIRES
		FLOOD LIGHT
		UTILITY POLE
		LIGHT STANDARD
		TRAFFIC SIGNAL POLE
		HAND HOLE
		SOIL BORING
		IRRIGATION HEADS
		SIGN
		TELEPHONE MANHOLE
		MONITORING WELL
		TELEPHONE PEDESTAL
		TRANSFORMER PAD
		UTILITY TO BE ABANDONED
		FEATURE TO BE REMOVED
		STORMWATER FLOW DIRECTION
		STORMWATER OVERFLOW ROUTE
		DITCH CHECK
		INLET FILTER BASKET
		RIP RAP
		BOLLARD
		SILT FENCE
		WATER MAIN PROTECTION
		TRENCH BACKFILL
		UTILITY CROSSING LABEL
		GUARDRAIL
		RAILROAD TRACKS
		RETAINING WALL
		REVISION DELINEATION
		CONSTRUCTION LIMIT LINE
		TREE PROTECTION FENCE

**ABBREVIATIONS**

A	ARC LENGTH
B-B	BACK TO BACK OF CURB
B/C	BACK OF CURB
BLDG	BUILDING
BM	BENCHMARK
B/P	BOTTOM OF PIPE
BV/VV	BUTTERFLY VALVE IN VALVE VAULT
C & G	CURB AND GUTTER
CB	CATCH BASIN
CL	CENTERLINE
CL	CLOSED LID
CO	CLEAN OUT
DIP	DUCTILE IRON PIPE
DIA	DIAMETER
DIWM	DUCTILE IRON WATER MAIN
DWG	DRAWING
E	EAST OR ELECTRIC OR EDGE
EJ	EXPANSION JOINT
ELEV	ELEVATION
E/P	EDGE OF PAVEMENT
EX.	EXISTING
F & CL	FRAME & CLOSED LID
F & G	FRAME & GRATE
F & OL	FRAME & OPEN LID
FES	FLARED END SECTION
F-F	FACE TO FACE OF CURB
FF	FINISHED FLOOR
F/G	FINISHED GRADE
FH	FIRE HYDRANT
F/L	FLOW LINE
G	GAS LINE
GV/VB	GATE VALVE IN VALVE BOX
GV/VV	GATE VALVE IN VALVE VAULT
HDCP	HANDICAP
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HDW	HEADWALL
HOR	HORIZONTAL
HP	HIGH POINT
HWL	HIGH WATER LEVEL
IE	INVERT ELEVATION
IN	INLET
LF	LINEAL FEET
LP	LOW POINT OR LIGHT POLE
L	LEFT
ME	MATCH EXISTING
MH	MANHOLE
MW	MONITORING WELL
N	NORTH
NIC	NOT IN CONTRACT / NOT INCLUDED
NWL	NORMAL WATER LEVEL
OC	ON CENTER
OL	OPEN LID
PC	POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE OR POINT OF COMPOUND CURVE
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PP	POWER POLE
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PUE	PUBLIC UTILITY EASEMENT
PVC	POINT OF VERTICAL CURVATURE OR POLYVINYL CHLORIDE PIPE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
R	RADIUS OR RIGHT
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
S	SLOPE OR SOUTH
SAN	SANITARY
SF	SILTATION FENCE
SFM	SANITARY FORCE MAIN
SHT	SHEET
SHW	SUBMERGED HEADWALL
SMH	SANITARY MANHOLE
STA	STATION
ST	STORM STRUCTURE OR STORM SEWER
STMH	STORM MANHOLE
T	TANGENT LENGTH OR TELEPHONE
T/C	TOP OF CURB
T/P	TOP OF PIPE
T/W	TOP OF WALL
TY	TYPE
TYP	TYPICAL
UP	UTILITY POLE
VC	VERTICAL CURVE
VERT	VERTICAL
VCP	VITRIFIED CLAY PIPE
W	WEST
WM	WATER MAIN

**MAINTENANCE OF TRAFFIC NOTES**

- TRAFFIC CONTROL AND PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE MAINTENANCE OF TRAFFIC NOTES AND PROTECTION SECTION 701 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS, TRAFFIC CONTROL DEVICES AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC DURING ALL PHASES OF CONSTRUCTION. BARRICADES AND WARNING SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 107.14 OF THE IDOT STANDARD SPECIFICATIONS. ALL TRAFFIC CONTROL WORK SHALL BE DONE IN ACCORDANCE WITH IDOT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."
- ALL SIGNS SHALL BE IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS, LATEST EDITION, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- LANE CLOSURES SHALL BE PERMITTED ONLY AT TIMES INDICATED IN THE SPECIAL PROVISIONS.
- THE COST OF SUPPLYING, ERECTING, AND MAINTAINING TRAFFIC CONTROL DEVICES, LIGHTS, AND SIGNS SHALL BE INCLUDED IN THE CONTRACT PRICE FOR "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)".
- EXISTING SIGN PANELS SHOWN IN THE MAINTENANCE OF TRAFFIC PLANS TO BE TEMPORARILY RELOCATED ON FRAME AND SKIDS WHICH SHALL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)".
- ALL TRAFFIC CONTROL DEVICES SHALL BE MAINTAINED THROUGH THE COMPLETION OF THE CONTRACT.
- WORK ZONE SIGNING SHALL BE DONE IN ACCORDANCE WITH IDOT STANDARD 701701 AND TC-22 AND AS SHOWN IN THE PLANS.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES AT ALL TIMES DURING CONSTRUCTION OPERATIONS.

**IDOT HIGHWAY STANDARDS**

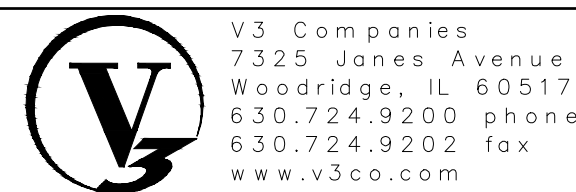
000001-06	STANDARD SYMBOLS ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-11	PERPENDICULAR CURB RAMPS AND SIDEWALKS
602401-05	PRECAST MANHOLE TYPE A, 4'-DIAMETER
604001-04	FRAME AND LIDS TYPE 1
604051-04	FRAME AND GRATE TYPE 11V
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-06	TRAFFIC CONTROL DEVICES

**IDOT DISTRICT 1 STANDARDS**

TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
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**JACKSON POND OUTLET**

**GENERAL NOTES, LEGENDS, AND ABBREVIATIONS**



V3 Companies  
7325 Jones Avenue  
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630.724.9200 phone  
630.724.9202 fax  
www.v3co.com

DESIGNED	— CWH	REVISED	—
DRAWN	— BAO	REVISED	—
CHECKED	— DLM	REVISED	—
DATE	— 1/23/2018	REVISED	—

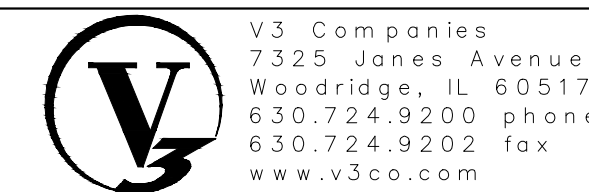
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO. _____				
ILLINOIS FED. AID PROJECT				

NOTE: A SPECIAL PROVISION IS PROVIDED FOR ALL ITEMS MARKED WITH AN ASTERISK (\*)

SP	ITEM NO.	IDOT REF. NO.	ITEM	UNIT	QUANTITY
	1	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	18
	2	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	166
	3	20101000	TEMPORARY FENCE	FOOT	112
*	4	20101200	TREE ROOT PRUNING	EACH	4
	5	20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	4
	6	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS	CU YD	100
	7	20800150	TRENCH BACKFILL	CU YD	308
	8	21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	65
	9	21101645	TOPSOIL FURNISH AND PLACE, 12"	SQ YD	1,340
	10	25100630	EROSION CONTROL BLANKET	SQ YD	960
	11	28000400	PERIMETER EROSION BARRIER	FOOT	1,758
*	12	28000510	INLET FILTERS	EACH	12
	13	35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	35
	14	35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	500
	15	40300290	BITUMINOUS MATERIALS (TACK COAT)	POUNDS	225
	16	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	112
	17	40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	56
*	18	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5"	SQ FT	312
	19	44000100	PAVEMENT REMOVAL	SQ YD	500
	20	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	357
*	21	44000600	SIDEWALK REMOVAL	SQ FT	312
	22	55100700	STORM SEWER REMOVAL 15"	FOOT	175
	23	55100900	STORM SEWER REMOVAL 18"	FOOT	0
	24	60200805	CATCH BASINS, TYPE A, 4-DIAMETER, TYPE 8 GRATE	EACH	1
	25	60201110	CATCH BASINS, TYPE A, 4-DIAMETER, TYPE 11V FRAME AND GRATE	EACH	4

SP	ITEM NO.	IDOT REF. NO.	ITEM	UNIT	QUANTITY
	26	60203805	CATCH BASINS, TYPE A, 5-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1
	27	60204825	CATCH BASINS, TYPE A, 5-DIAMETER, TYPE 11V FRAME AND GRATE	EACH	2
	28	60500050	REMOVING CATCH BASINS	EACH	5
	29	60500060	REMOVING INLETS	EACH	1
	30	550A0340	STORM SEWER, CLASS A, TYPE 2 12"	FOOT	43
	31	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	33
	32	550A0410	STORM SEWER, CLASS A, TYPE 2 24"	FOOT	319
	33	550A0980	STORM SEWERS, CLASS A, TYPE 4 18"	FOOT	694
*	34	X5509900	ABANDON AND FILL EXISTING STORM SEWERS	L SUM	1
*	35	Special	COMBINATION CONCRETE CURB AND GUTTER	FOOT	357
*	36	Special	CONTINGENCY ALLOWANCE	DOLLAR	30,000
*	37	Special	PARKWAY RESTORATION	SQ YD	179
*	38	Special	PARK RESTORATION	SQ YD	2,702
*	39	Special	WATER USAGE DEDUCTION	T GAL	100
*	40	Special	WATER USAGE CREDIT	T GAL	100
*	41	Special	DRAINAGE RESTRICTOR	EACH	1
*	42	Special	TEMPORARY ROADWAY PAVEMENT	SQYD	112
*	43	Special	REMOVE AND REPLACE SANITARY SEWER 10"	FOOT	30
*	44	X0325207	TELEVISION INSPECTION OF SEWER	FOOT	1,456
*	45	X0326806	WASHOUT BASIN	L SUM	1
*	46	X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1
*	47	XX003668	PRE-CONSTRUCTION VIDEO RECORDING	L SUM	1
*	48	Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	14
*	49	Z0013798	CONSTRUCTION LAYOUT AND RECORD DRAWINGS	L SUM	1

BID



V3 Companies  
7325 Jones Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
www.v3co.com

DESIGNED — CWH  
DRAWN — BAO  
CHECKED — DLM  
DATE — 1/23/2018

REVISED  
REVISED  
REVISED  
REVISED

JACKSON POND OUTLET

SUMMARY OF QUANTITIES

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			2	2
DUPAGE			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				



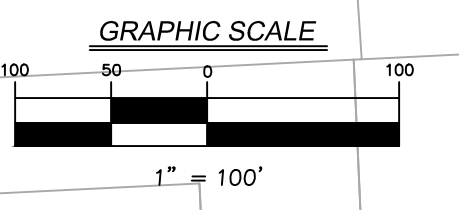
W. HIGHRIDGE ROAD

JACKSON STREET

ARDMORE AVENUE

JACKSON POND OUTLET

ALIGNMENTS TIES & BENCHMARKS



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DESIGNED — CWH	REVISED —
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DATE — 1/23/2018	REVISED —

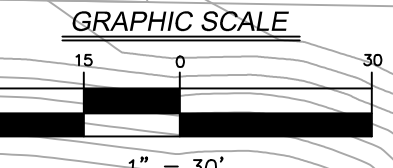
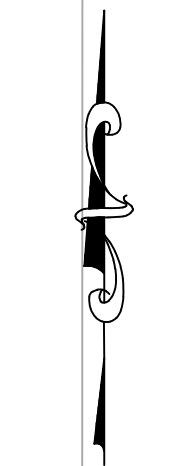
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			3	3
CONTRACT NO.				

ILLINOIS	FED. AID PROJECT
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SEE NOTE 1

**NOTES:**  
 1. ELEVATIONS REFER TO EXISTING GROUND SURFACE AT TIME OF PROJECT SURVEY (11/2016). CONTOURS REFER TO RELATED PROJECT EXCAVATIONS SCHEDULED TO BE COMPLETE PRIOR TO COMMENCEMENT OF THE WORK SHOWN.



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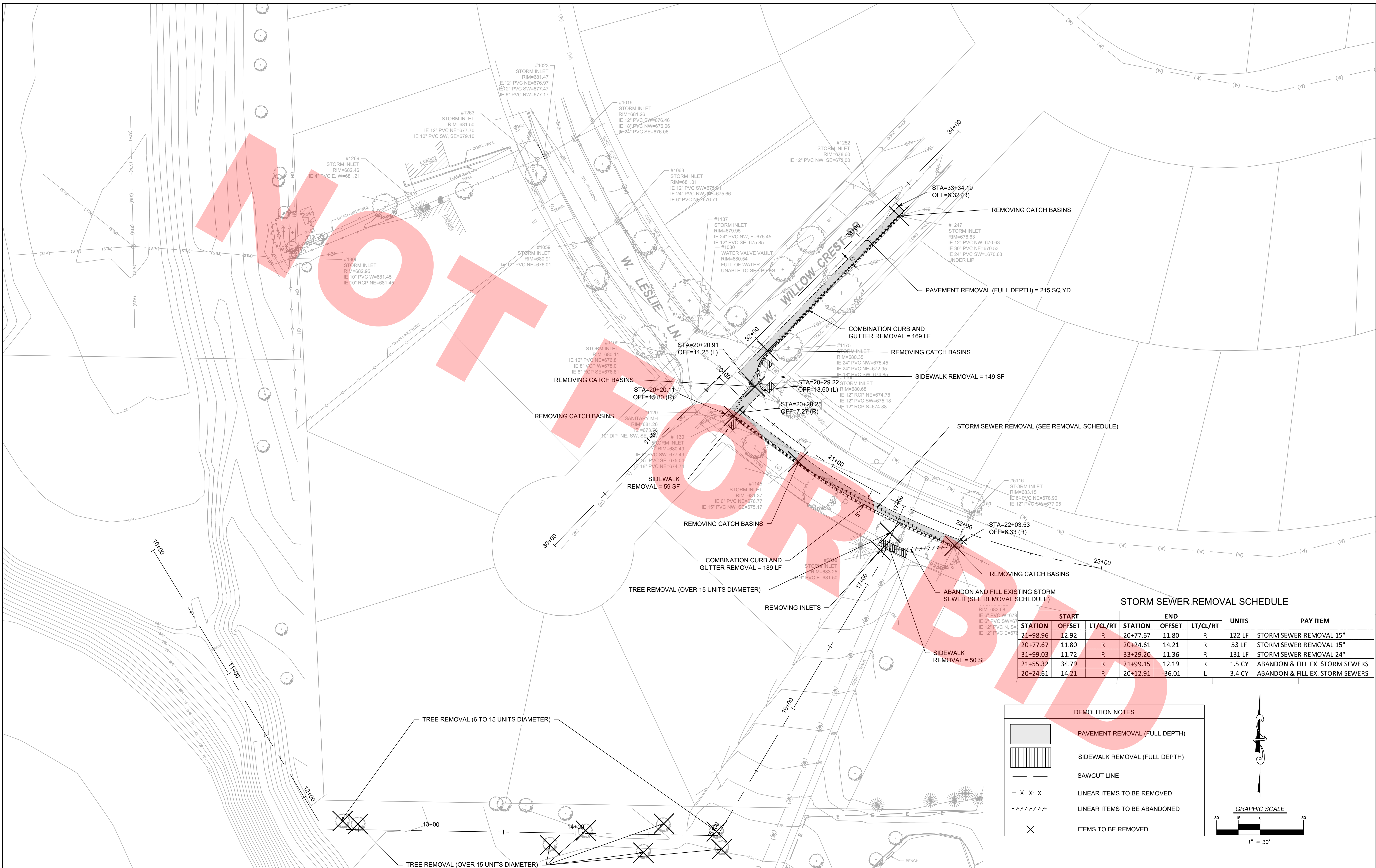
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 PLOT DATE =

DESIGNED — CWH	REVISED —
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CHECKED — DLM	REVISED —
DATE — 1/23/2018	REVISED —

**JACKSON POND OUTLET**

**EXISTING CONDITIONS PLAN**


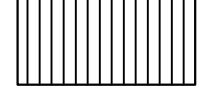
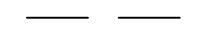
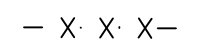
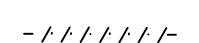

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DUPAGE	4	4
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				




**STORM SEWER REMOVAL SCHEDULE**

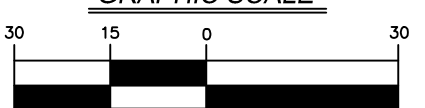
START			END			UNITS	PAY ITEM
STATION	OFFSET	LT/CL/RT	STATION	OFFSET	LT/CL/RT		
21+98.96	12.92	R	20+77.67	11.80	R	122 LF	STORM SEWER REMOVAL 15"
20+77.67	11.80	R	20+24.61	14.21	R	53 LF	STORM SEWER REMOVAL 15"
31+99.03	11.72	R	33+29.20	11.36	R	131 LF	STORM SEWER REMOVAL 24"
21+55.32	34.79	R	21+99.15	12.19	R	1.5 CY	ABANDON & FILL EX. STORM SEWERS
20+24.61	14.21	R	20+12.91	-36.01	L	3.4 CY	ABANDON & FILL EX. STORM SEWERS

**DEMOLITION NOTES**

-  PAVEMENT REMOVAL (FULL DEPTH)
-  SIDEWALK REMOVAL (FULL DEPTH)
-  SAWCUT LINE
-  LINEAR ITEMS TO BE REMOVED
-  LINEAR ITEMS TO BE ABANDONED
-  ITEMS TO BE REMOVED



**GRAPHIC SCALE**



1" = 30'



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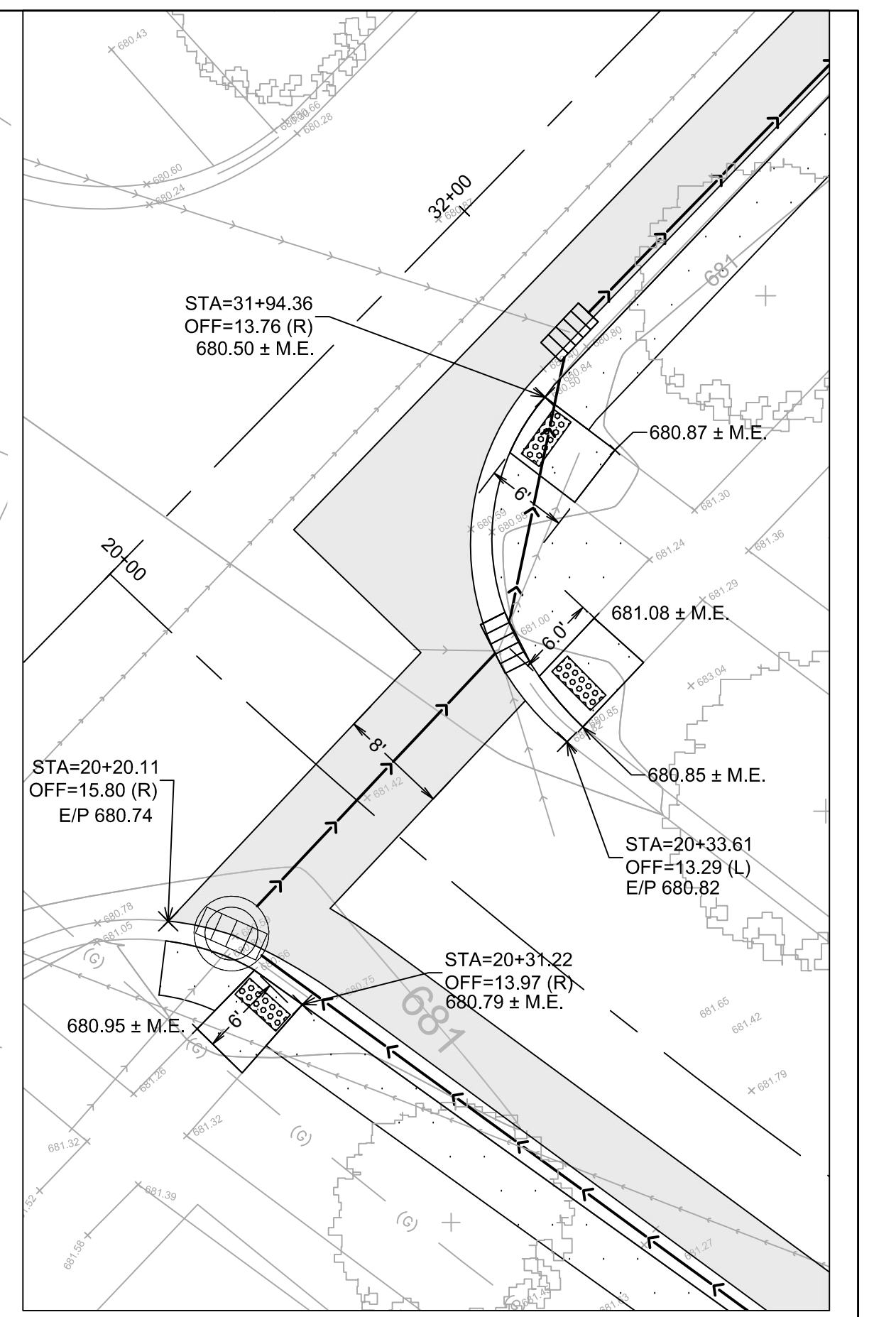
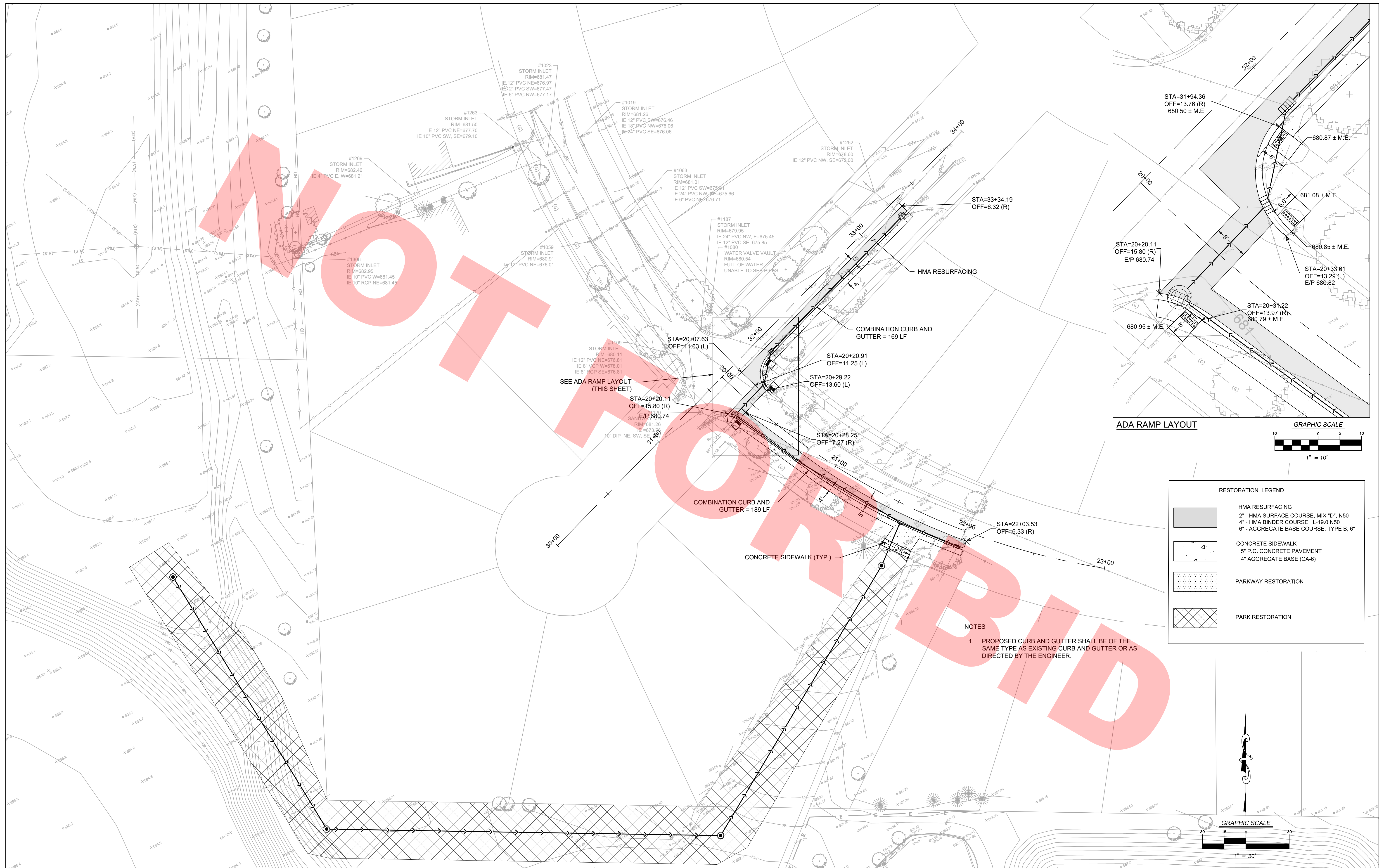
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PLOT DATE =

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DRAWN — BAO	REVISED —
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DATE — 1/23/2018	REVISED —

**JACKSON POND OUTLET**

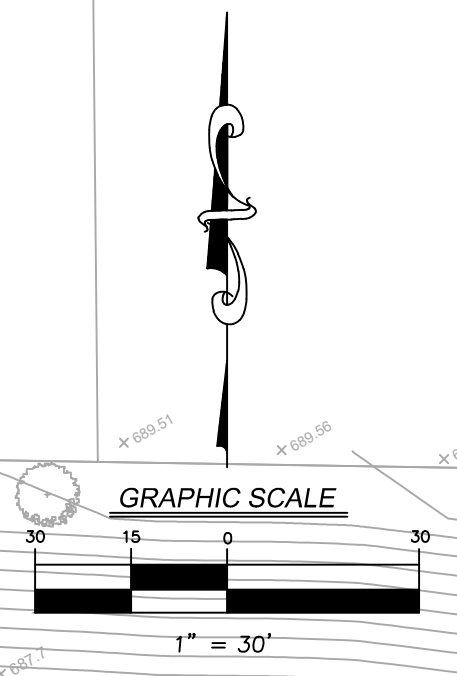
**REMOVAL PLAN**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				5
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



RESTORATION LEGEND	
	HMA RESURFACING 2" - HMA SURFACE COURSE, MIX "D", N50 4" - HMA BINDER COURSE, IL-19.0 N50 6" - AGGREGATE BASE COURSE, TYPE B, 6"
	CONCRETE SIDEWALK 5" P.C. CONCRETE PAVEMENT 4" AGGREGATE BASE (CA-6)
	PARKWAY RESTORATION
	PARK RESTORATION

**NOTES**  
1. PROPOSED CURB AND GUTTER SHALL BE OF THE SAME TYPE AS EXISTING CURB AND GUTTER OR AS DIRECTED BY THE ENGINEER.



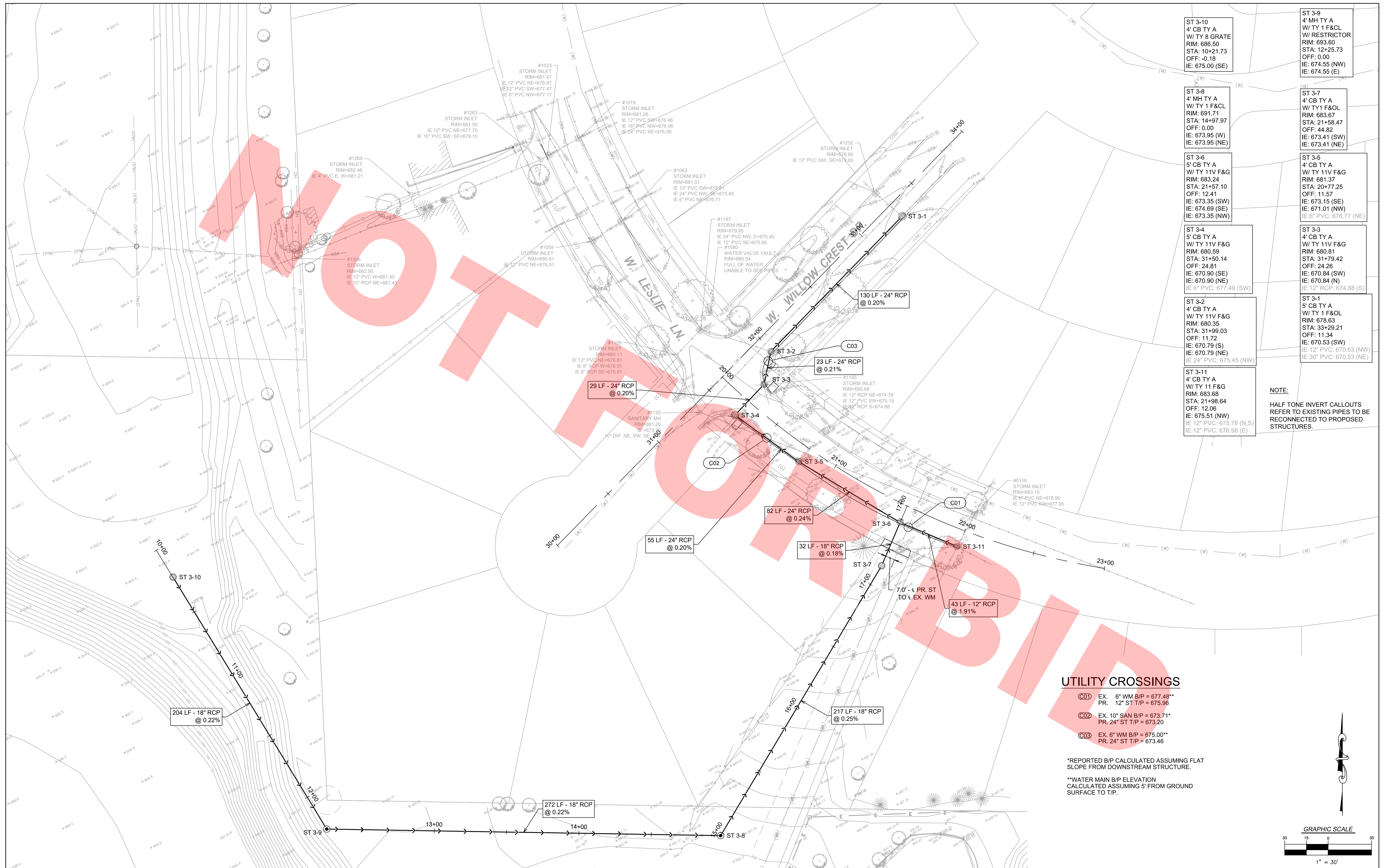
**JACKSON POND OUTLET**

**LAYOUT AND RESTORATION PLAN**

**V3 Companies**  
7325 Jones Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
www.v3co.com

DESIGNED — CWH	REVISED —
DRAWN — LEH	REVISED —
CHECKED — DLM	REVISED —
DATE — 1/23/2018	REVISED —

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DUPAGE	6	6
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



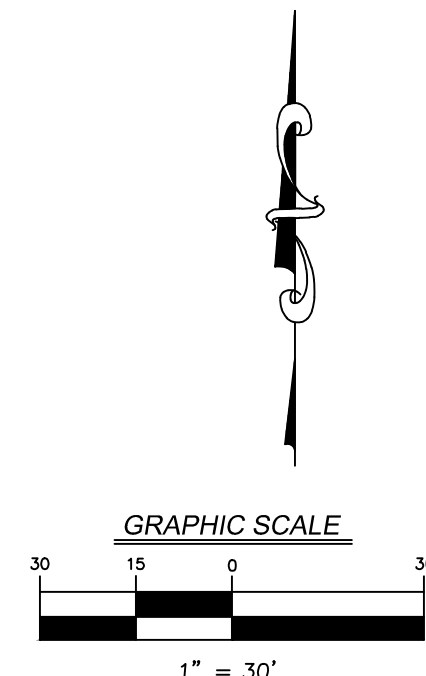
ST 3-10 4' CB TY A W/ TY 8 GRATE RIM: 686.50 STA: 10+21.73 OFF: -0.18 IE: 675.00 (SE)	ST 3-9 4' MH TY A W/ TY 1 F&CL W/ RESTRICTOR RIM: 693.60 STA: 12+25.73 OFF: 0.00 IE: 674.55 (NW) IE: 674.55 (E)
ST 3-8 4' MH TY A W/ TY 1 F&CL RIM: 691.71 STA: 14+97.97 OFF: 0.00 IE: 673.95 (W) IE: 673.95 (NE)	ST 3-7 4' CB TY A W/ TY 1 F&CL RIM: 683.67 STA: 21+58.47 OFF: 44.82 IE: 673.41 (NW) IE: 673.41 (SE)
ST 3-6 5' CB TY A W/ TY 11V F&G RIM: 683.24 STA: 21+57.10 OFF: 12.41 IE: 673.35 (SW) IE: 674.69 (SE) IE: 673.35 (NW)	ST 3-5 4' CB TY A W/ TY 11V F&G RIM: 681.37 STA: 20+77.25 OFF: 11.57 IE: 673.15 (SE) IE: 671.01 (NW) IE 6" PVC: 676.77 (NE)
ST 3-4 5' CB TY A W/ TY 11V F&G RIM: 680.59 STA: 31+50.14 OFF: 24.81 IE: 670.90 (SE) IE: 670.90 (NE) IE 6" PVC: 677.49 (SW)	ST 3-3 4' CB TY A W/ TY 11V F&G RIM: 680.81 STA: 31+79.42 OFF: 24.26 IE: 670.84 (SW) IE: 670.84 (N) IE 12" RCP: 674.88 (S)
ST 3-2 4' CB TY A W/ TY 11V F&G RIM: 680.35 STA: 31+99.03 OFF: 11.72 IE: 670.79 (S) IE: 670.79 (NE) IE 24" PVC: 675.45 (NW)	ST 3-1 5' CB TY A W/ TY 1 F&CL RIM: 678.63 STA: 33+29.21 OFF: 11.34 IE: 670.53 (SW) IE 12" PVC: 670.63 (NW) IE 30" PVC: 670.53 (NE)
ST 3-11 4' CB TY A W/ TY 11 F&G RIM: 683.68 STA: 21+98.64 OFF: 12.06 IE: 675.51 (NW) IE 12" PVC: 675.78 (N,S) IE 12" PVC: 676.98 (E)	

**NOTE:**  
HALF TONE INVERT CALLOUTS REFER TO EXISTING PIPES TO BE RECONNECTED TO PROPOSED STRUCTURES.

**UTILITY CROSSINGS**

- C01** EX. 6" WM B/P = 677.48\*\*  
PR. 12" ST T/P = 675.96
- C02** EX. 10" SAN B/P = 673.71\*\*  
PR. 24" ST T/P = 673.20
- C03** EX. 6" WM B/P = 675.00\*\*  
PR. 24" ST T/P = 673.46

\*\*REPORTED B/P CALCULATED ASSUMING FLAT SLOPE FROM DOWNSTREAM STRUCTURE.  
\*\*WATER MAIN B/P ELEVATION CALCULATED ASSUMING 5' FROM GROUND SURFACE TO T/P.



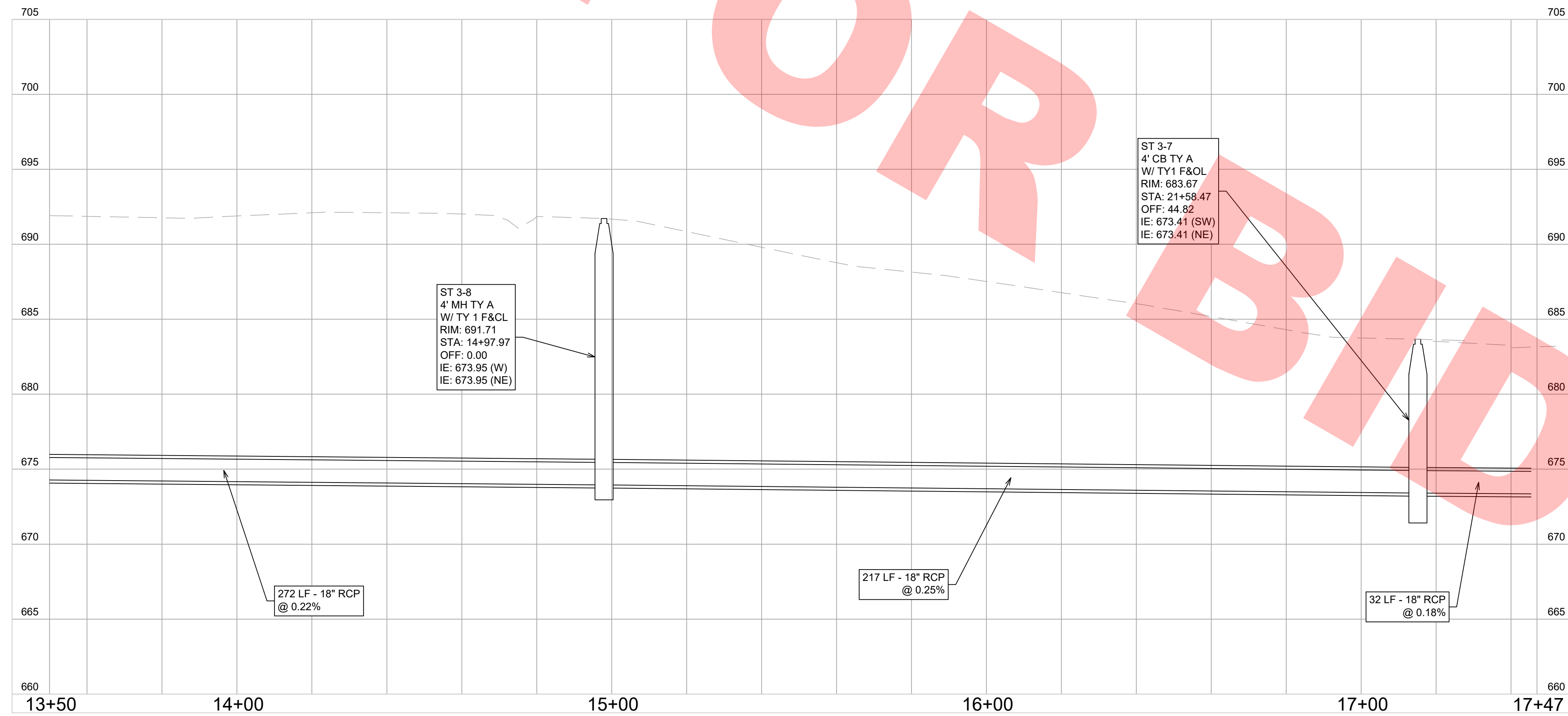
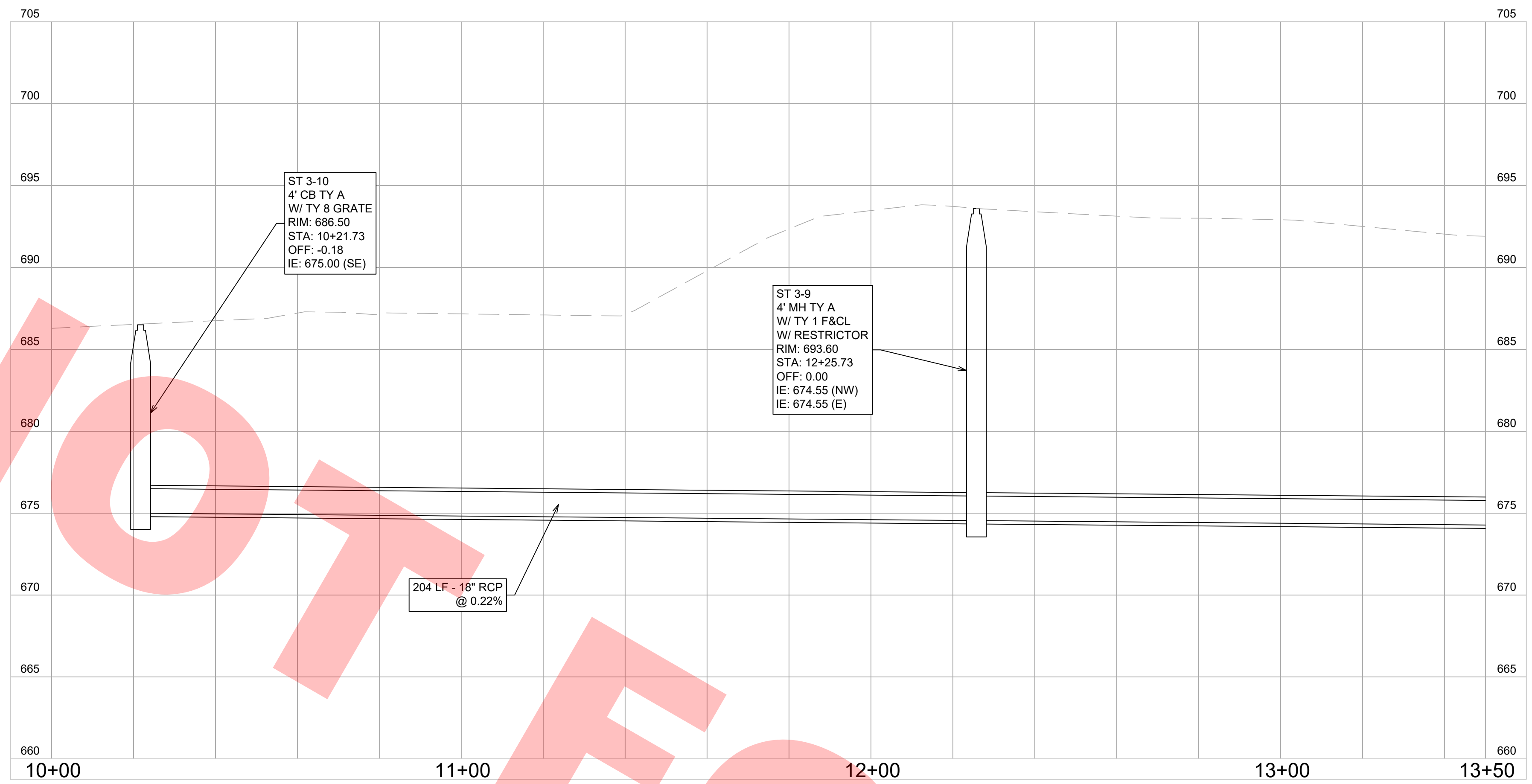
V3 Companies  
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DESIGNED — CWH	REVISED —
DRAWN — BAO	REVISED —
CHECKED — DLM	REVISED —
DATE — 1/23/2018	REVISED —

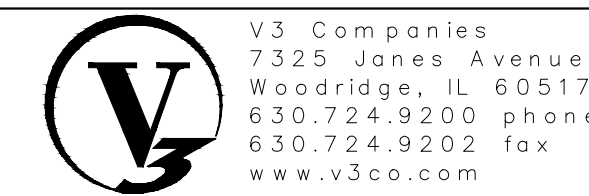
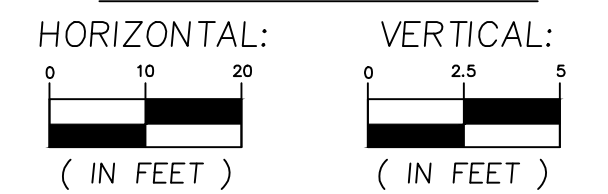
**JACKSON POND OUTLET**

**UTILITY PLAN**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DUPAGE		7
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



**GRAPHIC SCALE**



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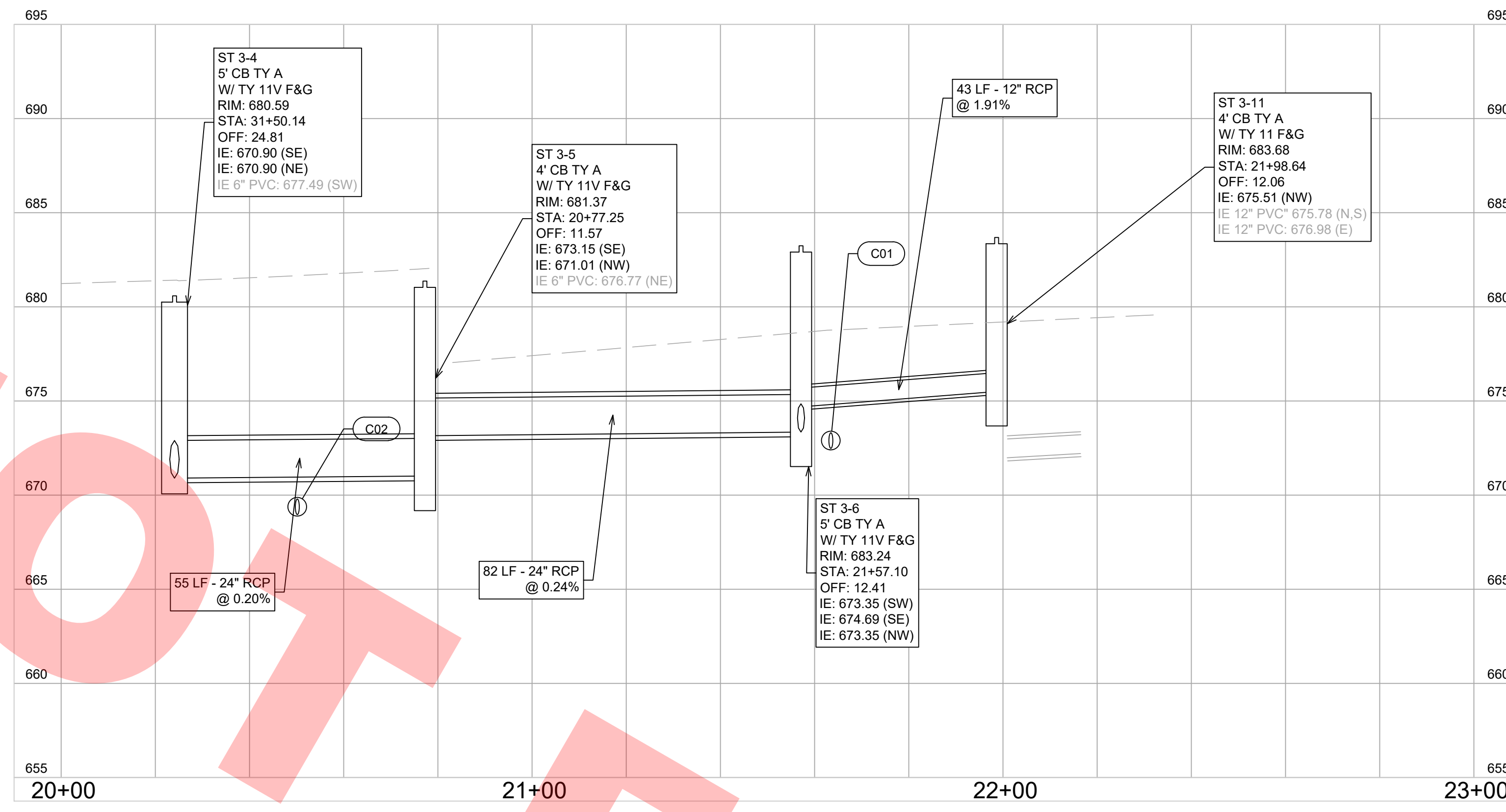
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PLOT DATE =	

DESIGNED — CWH	REVISED —
DRAWN — BAO	REVISED —
CHECKED — DLM	REVISED —
DATE — 1/23/2018	REVISED —

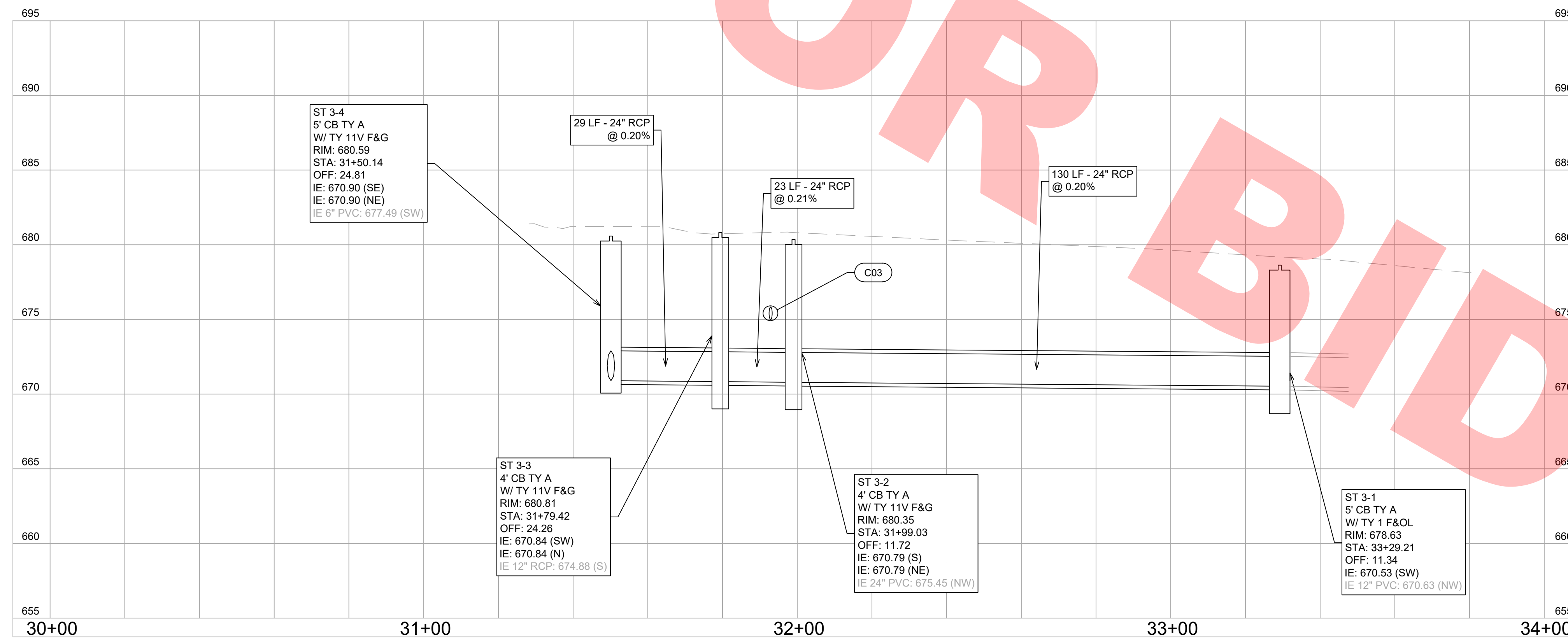
**JACKSON POND OUTLET**

**UTILITY PROFILES**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			8	8
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

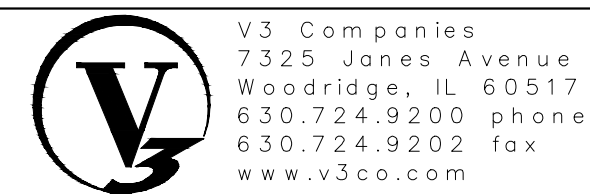
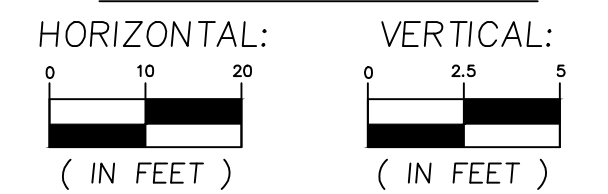


LESLIE LANE



WILLOW CREST DRIVE

**GRAPHIC SCALE**



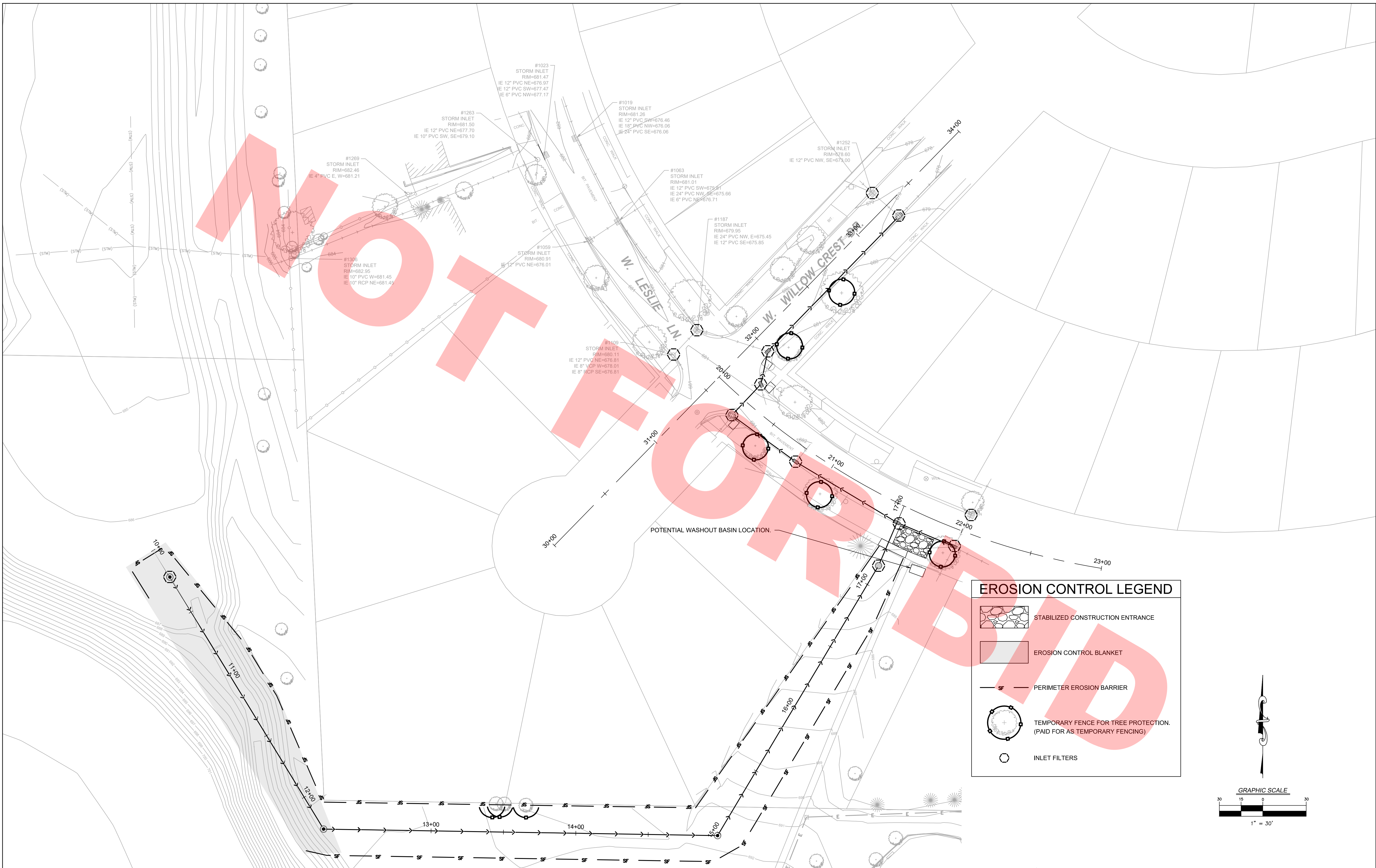
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DESIGNED — CWH	REVISED —
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DATE — 1/23/2018	REVISED —

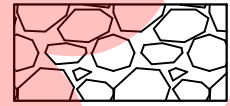


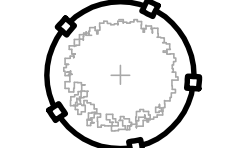

**JACKSON POND OUTLET**

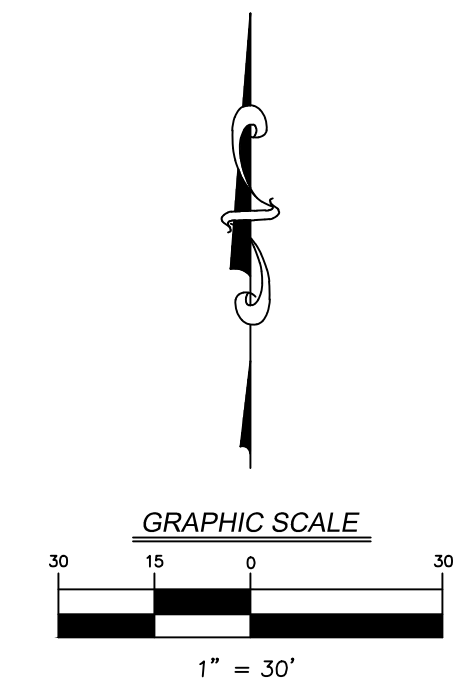
**UTILITY PROFILES**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			9	9
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				




**EROSION CONTROL LEGEND**

-  STABILIZED CONSTRUCTION ENTRANCE
-  EROSION CONTROL BLANKET
-  PERIMETER EROSION BARRIER
-  TEMPORARY FENCE FOR TREE PROTECTION. (PAID FOR AS TEMPORARY FENCING)
-  INLET FILTERS



**JACKSON POND OUTLET**

**EROSION CONTROL PLAN**



V3 Companies  
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Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
www.v3co.com

PLOT SCALE =	
PLOT DATE =	

DESIGNED — CWH	REVISED —
DRAWN — BAO	REVISED —
CHECKED — DLM	REVISED —
DATE — 1/23/2018	REVISED —

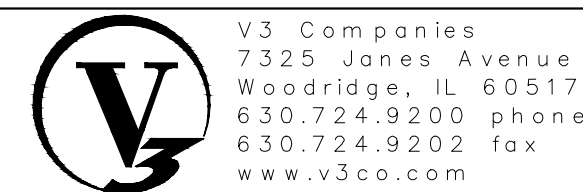
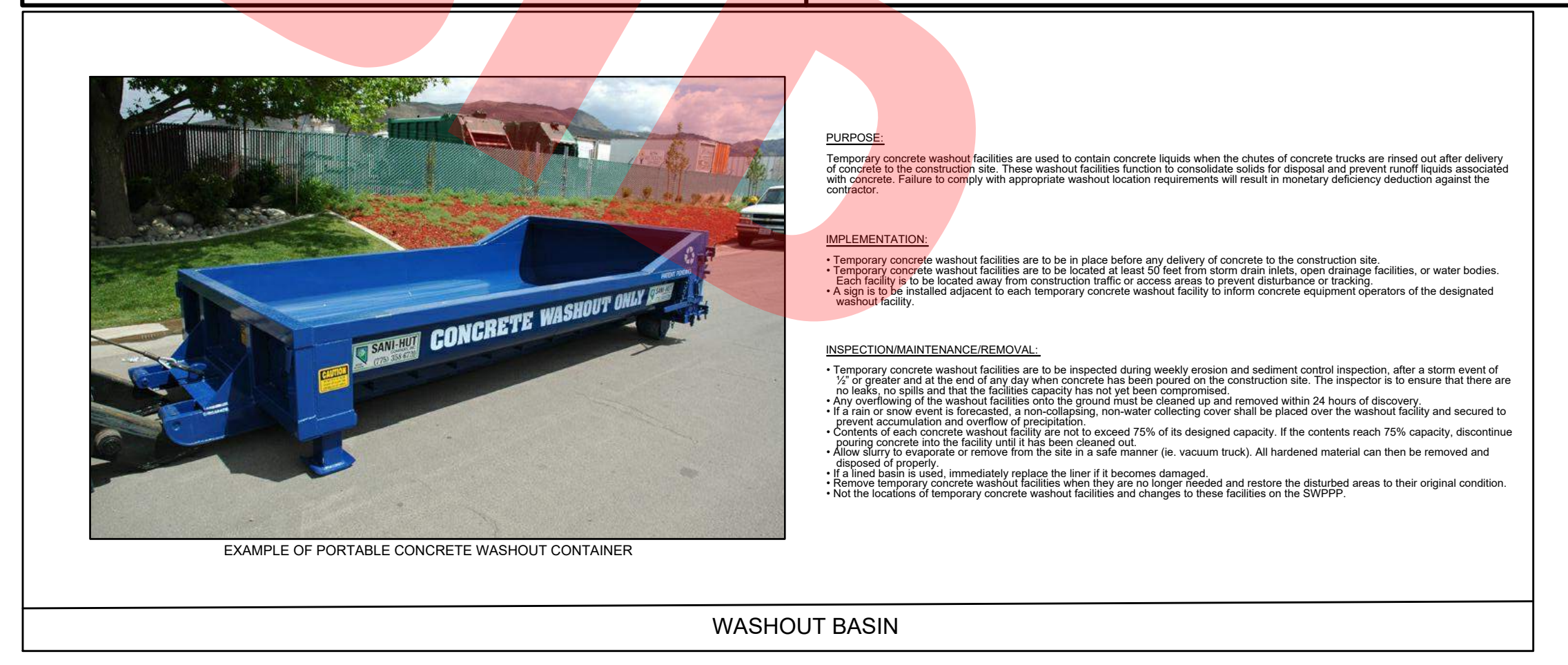
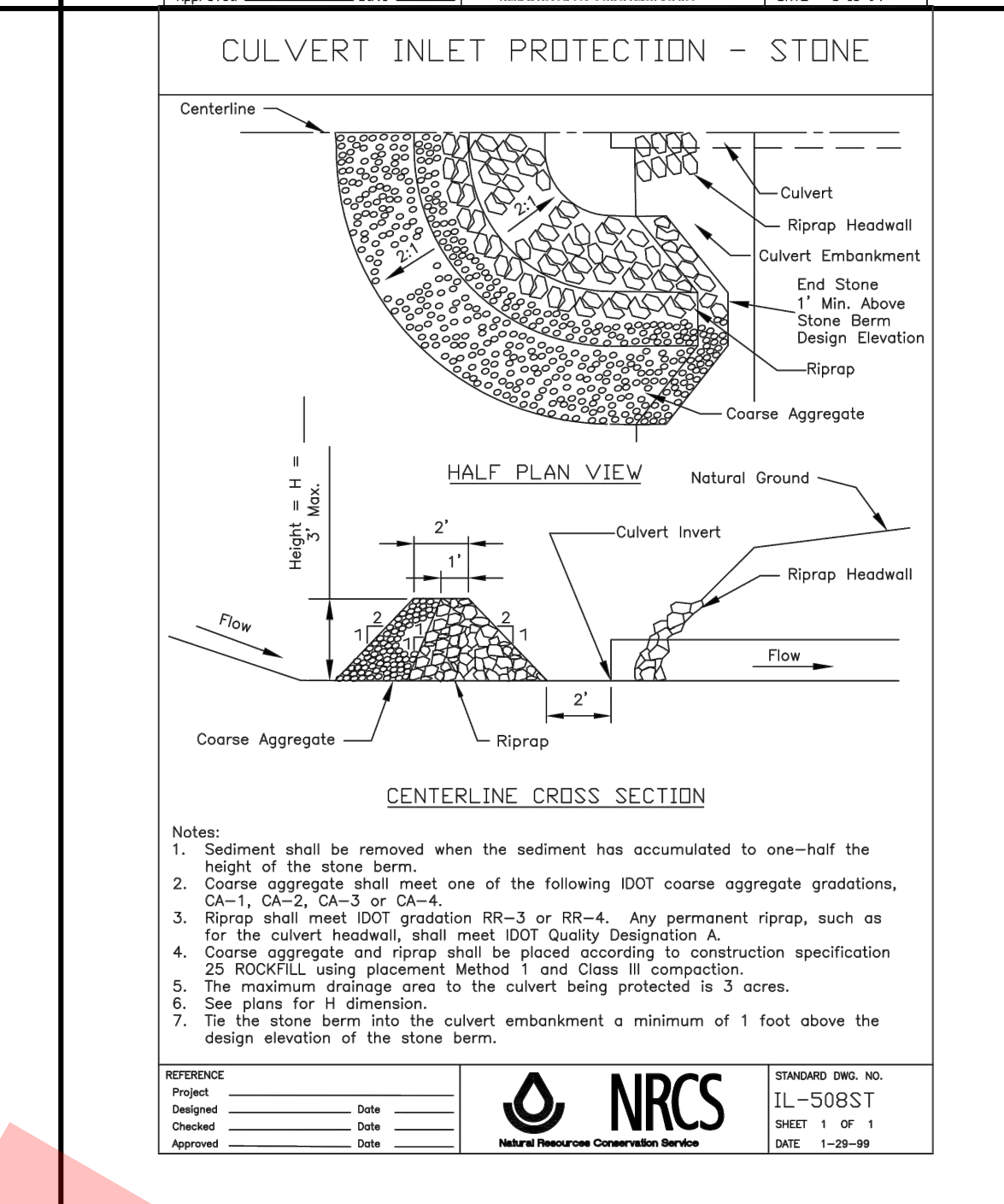
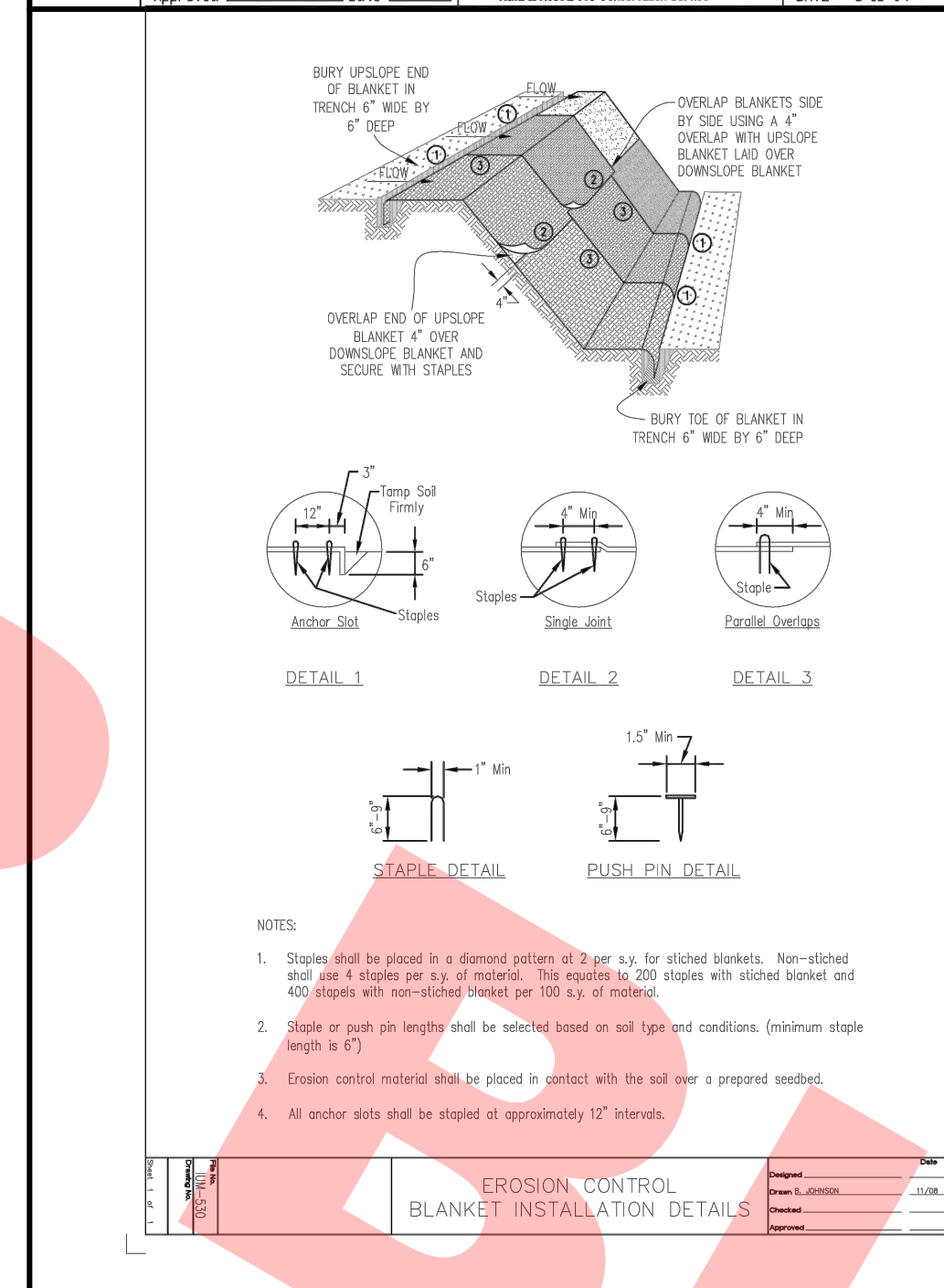
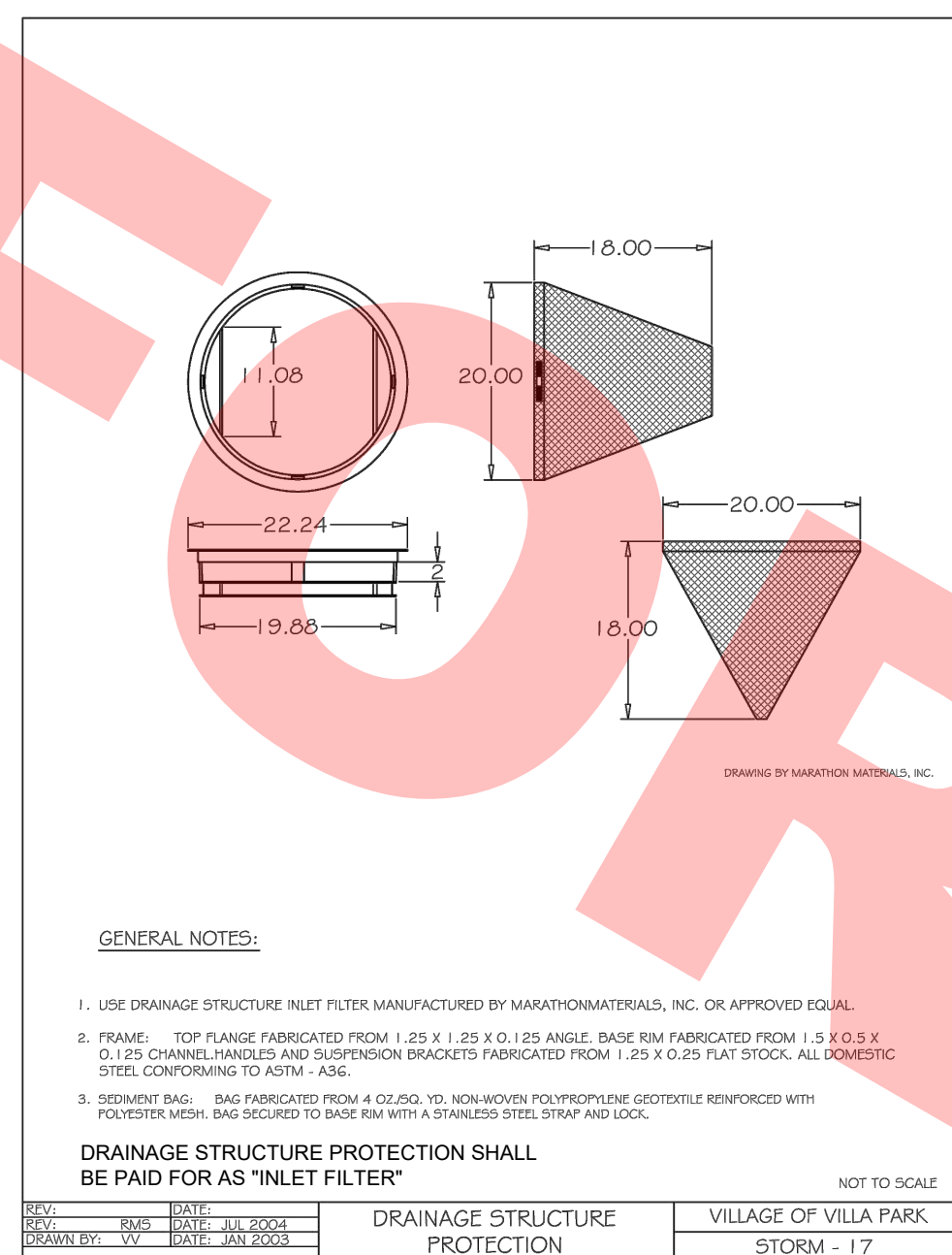
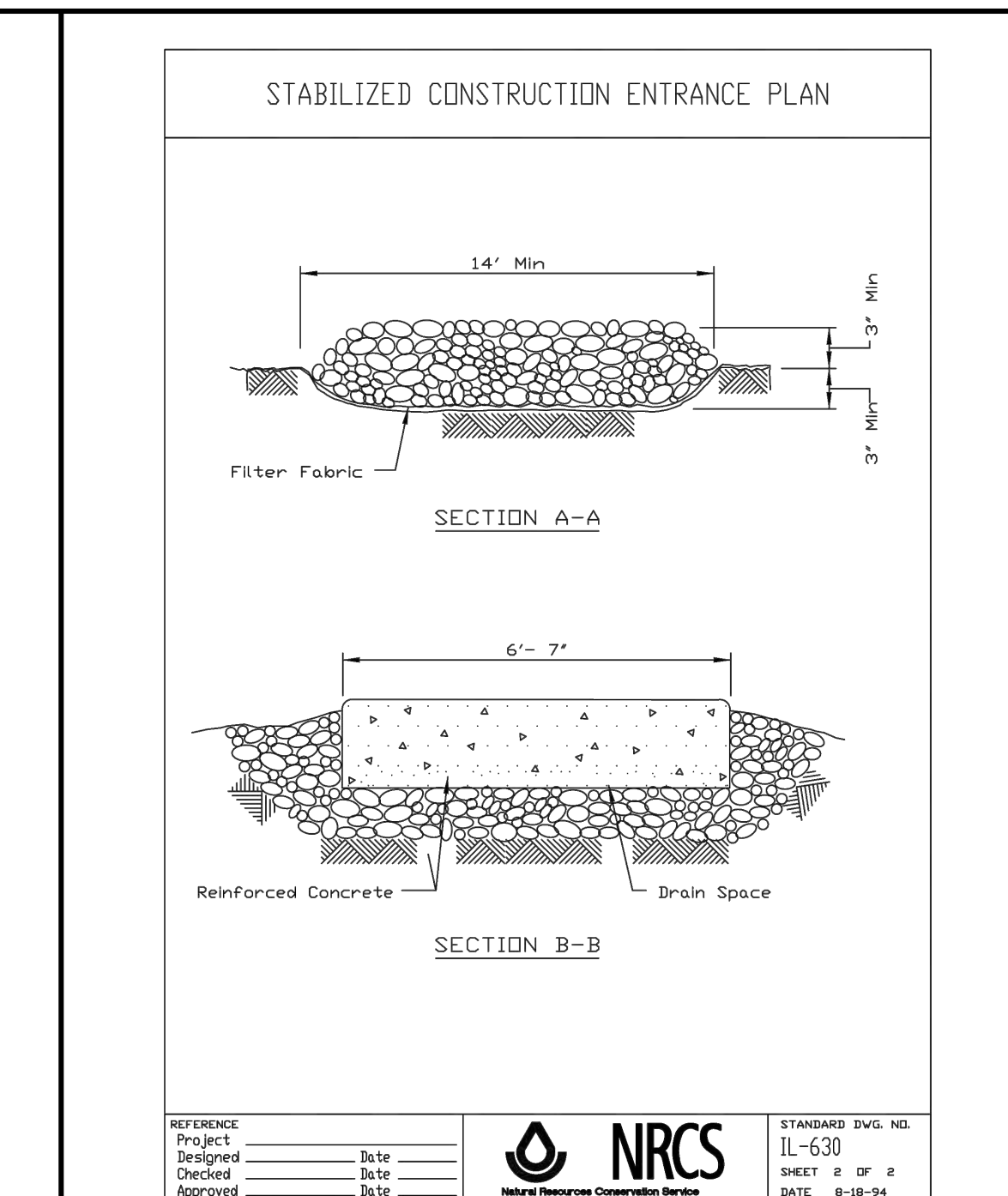
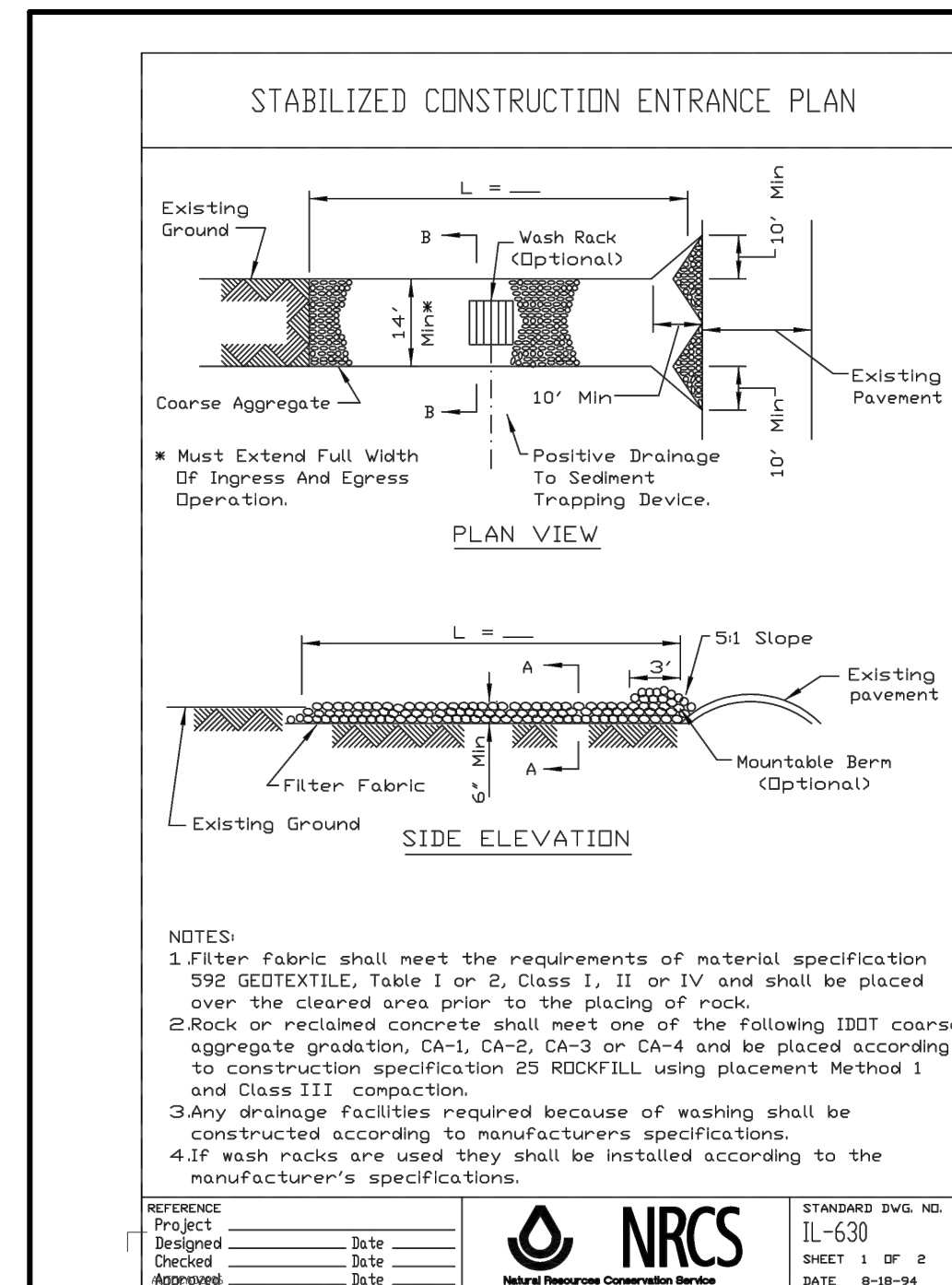
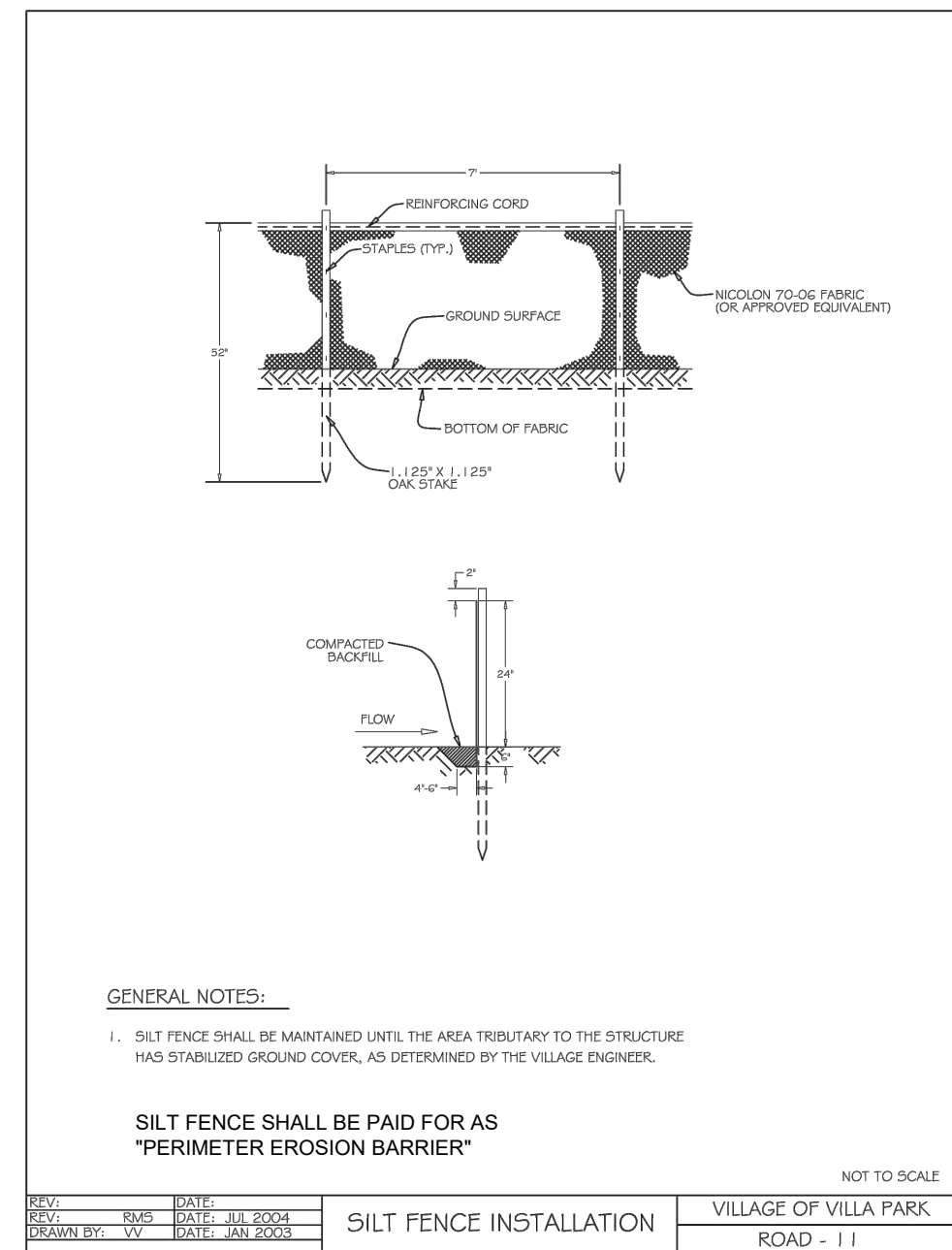
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DUPAGE		10
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

## VILLAGE OF VILLA PARK EROSION CONTROL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL EROSION CONTROL DEVICES INCLUDING, BUT NOT LIMITED TO, SILT FENCE AROUND THE CONSTRUCTION LIMITS, STONE ACCESS DRIVE AND DRAINAGE STRUCTURE PROTECTORS IN ALL STORM MANHOLES AND/OR INLETS PER DETAILS.
- THE CONTRACTOR SHALL MAKE AN INSPECTION OF THE INSTALLATION ON A WEEKLY BASIS OR FOLLOWING A RAINFALL OF 1/2 INCH OR MORE OVER A 24 HOUR PERIOD. A RECORD OF SUCH INSPECTIONS SHALL BE KEPT ON SITE AT ALL TIMES UNTIL FINAL ACCEPTANCE OF THE WORK.
- IF ADDITIONAL EROSION CONTROL MEASURES NOT SHOWN ON THE PLANS ARE REQUIRED TO STOP OR PREVENT EROSION OR ARE REQUIRED BY ANY AUTHORITY HAVING JURISDICTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSTALL SUCH REQUIRED DEVICES AT NO ADDITIONAL COST TO THE VILLAGE.
- SEE STANDARD VILLAGE OF VILLA PARK DETAILS FOR SILT FENCE AND DRAINAGE STRUCTURE PROTECTION REQUIREMENTS.
- ALL STATE AND LOCAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AND MAINTAINED THROUGHOUT CONSTRUCTION.
- ALL SILT FENCE SHALL BE INSTALLED AND APPROVED BY THE VILLAGE OF VILLA PARK PRIOR TO CONSTRUCTION.
- SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE THE PROJECT SITE IS OTHERWISE DISTURBED.

## EROSION AND SEDIMENT CONTROL GENERAL NOTES

- THE CONTRACTOR SHALL SURROUND ALL EARTH STOCKPILES WITH SILT FILTER FENCE AND SHALL BE PAID FOR AS PERIMETER EROSION BARRIER.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH VILLA PARK CODE AND ARTICLE VII OF THE DuPAGE COUNTY COUNTYWIDE STORM WATER AND FLOOD PLAIN ORDINANCE, EFFECTIVE SEPTEMBER 24, 1991 AND ALL SUBSEQUENT REVISIONS. ALL CONSTRUCTION ACTIVITIES WILL BE IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORM WATER PERMITS ILR10 AND ILR40.
- ALL DISTURBED AREAS SHALL BE SEEDED OR SODDED AS SOON AS PRACTICAL AFTER CONSTRUCTION ACTIVITIES IN THAT AREA HAVE CONCLUDED. ALL ERODABLE/BARE AREAS SHALL BE SEEDED EVERY 7 DAYS WITH TEMPORARY EROSION CONTROL SEEDING. IF A TOPSOIL STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, EROSION CONTROL MEASURES WILL BE PROVIDED. COST OF THIS WORK SHALL BE INCIDENTAL TO PARKWAY RESTORATION.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT POLLUTION OF STORMWATER AND SHALL FOLLOW IEPA & IDOT CONSTRUCTION MEMORANDUM NO. 06-60.
- AT THE END OF EACH WORK DAY, THE SITE SHALL BE GRADED TO MAINTAIN THE DRAINAGE PATTERN ESTABLISHED IN THE EROSION CONTROL PLAN. THIS WORK SHALL BE INCLUDED IN THE COST OF THE EROSION CONTROL ITEMS.
- PERIMETER EROSION BARRIER SHALL BE PLACED ONE (1) FOOT INSIDE THE RIGHT-OF-WAY LINE AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- TREE PROTECTION SHALL CONSIST OF ITEMS "TEMPORARY FENCING" AS DIRECTED BY THE ENGINEER AND IN ACCORDANCE WITH ARTICLE 201.05 OF THE STANDARD SPECIFICATIONS. TEMPORARY FENCING SHALL BE ERECTED ALONG THE DRIP LINE OF EXISTING TREES TO REMAIN WITHIN THE LIMITS OF CONSTRUCTION. AFTER TREES ARE SAFELY FENCED, NOTHING IS TO BE STORED, DRIVEN, OR DISTURBED INSIDE THE FENCE. REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED.
- GRAVEL ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLE WASH DOWN FACILITIES IF NECESSARY, SHALL BE PROVIDED TO PREVENT SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS.
- EROSION CONTROL MEASURES AROUND PROPOSED INLETS AND CULVERTS SHALL BE CONSTRUCTED IMMEDIATELY AFTER THE DRAINAGE ITEMS ARE CONSTRUCTED.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON SITE AT ALL TIMES.
- ALL COMPLETED SLOPES SHALL BE RESTORED AS THE EXCAVATION PROCEEDS TO THE EXTENT CONSIDERED DESIRABLE AND PRACTICAL. PERMANENT SEEDING SHALL BE USED WHENEVER POSSIBLE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME. COST OF THIS WORK SHALL BE INCIDENTAL TO PARKWAY RESTORATION.
- ALL EXISTING INLETS AND PIPES WITHIN LIMITS OF CONSTRUCTION OR WHICH WILL RECEIVE RUNOFF FROM DISTURBED AREAS WILL BE PROTECTED AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
- EROSION CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE SEQUENCE OF STAGE CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE FOR APPROVAL.
- THE COST OF REMOVING SEDIMENT OR REPAIRING EROSION CONTROL SYSTEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPLICABLE EROSION CONTROL ITEM.



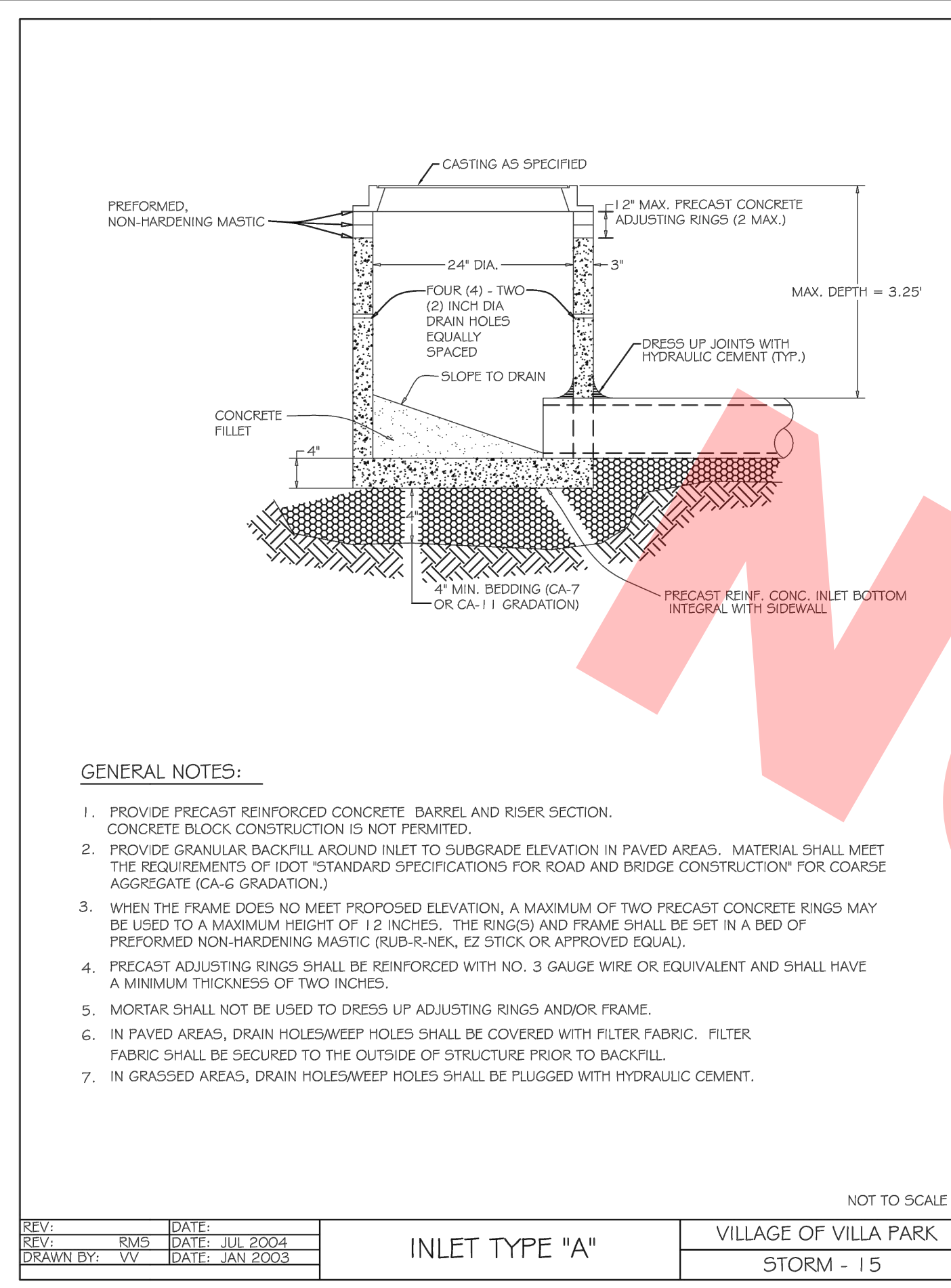
V3 Companies  
7325 James Avenue  
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DESIGNED	—	CWH	REVISED	—	-----
DRAWN	—	BAO	REVISED	—	-----
CHECKED	—	DLM	REVISED	—	-----
DATE	—	1/23/2018	REVISED	—	-----

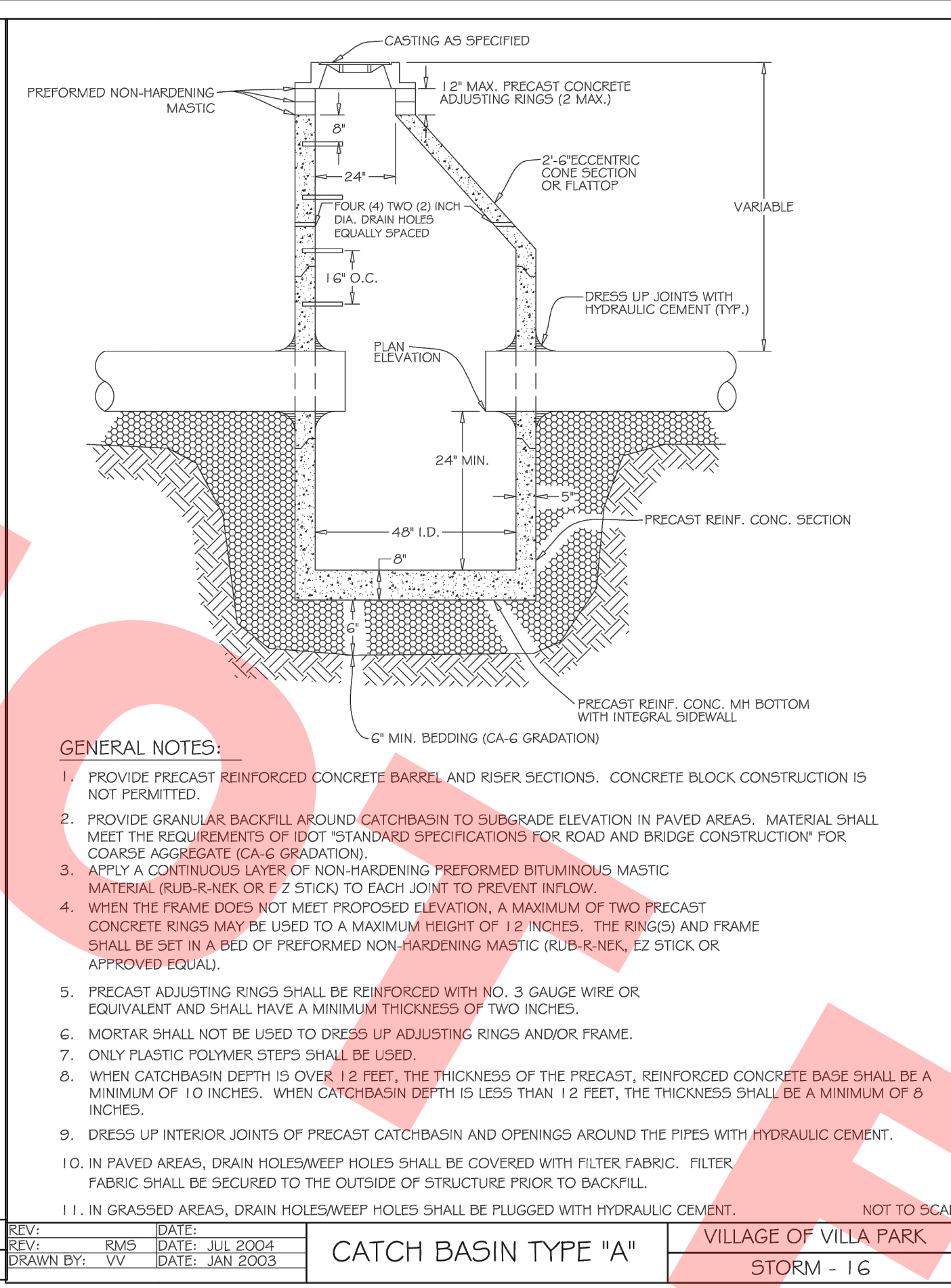
## JACKSON POND OUTLET

## EROSION CONTROL NOTES AND DETAILS

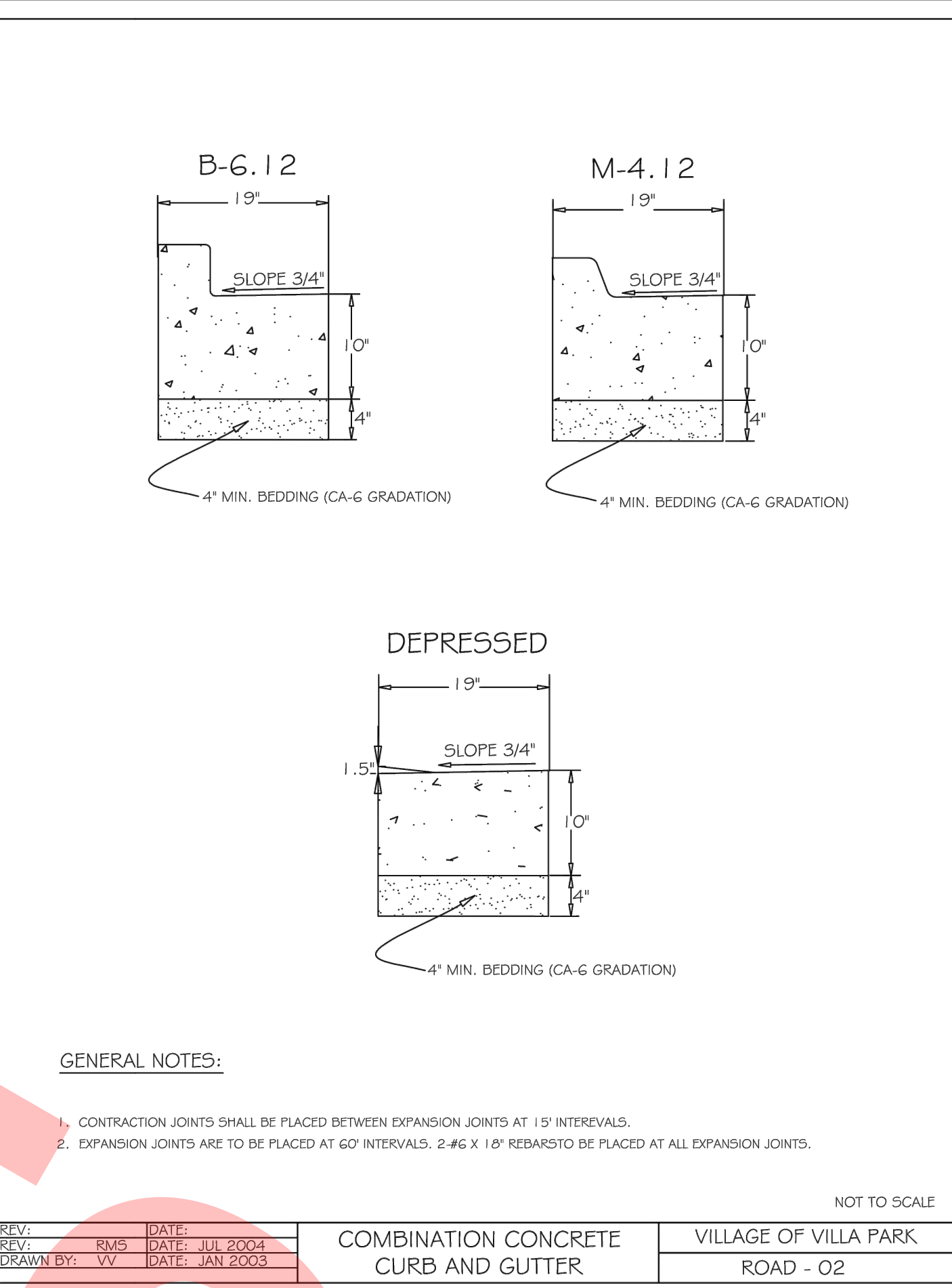
F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DUPAGE	11	11
CONTRACT NO. _____				
ILLINOIS FED. AID PROJECT				



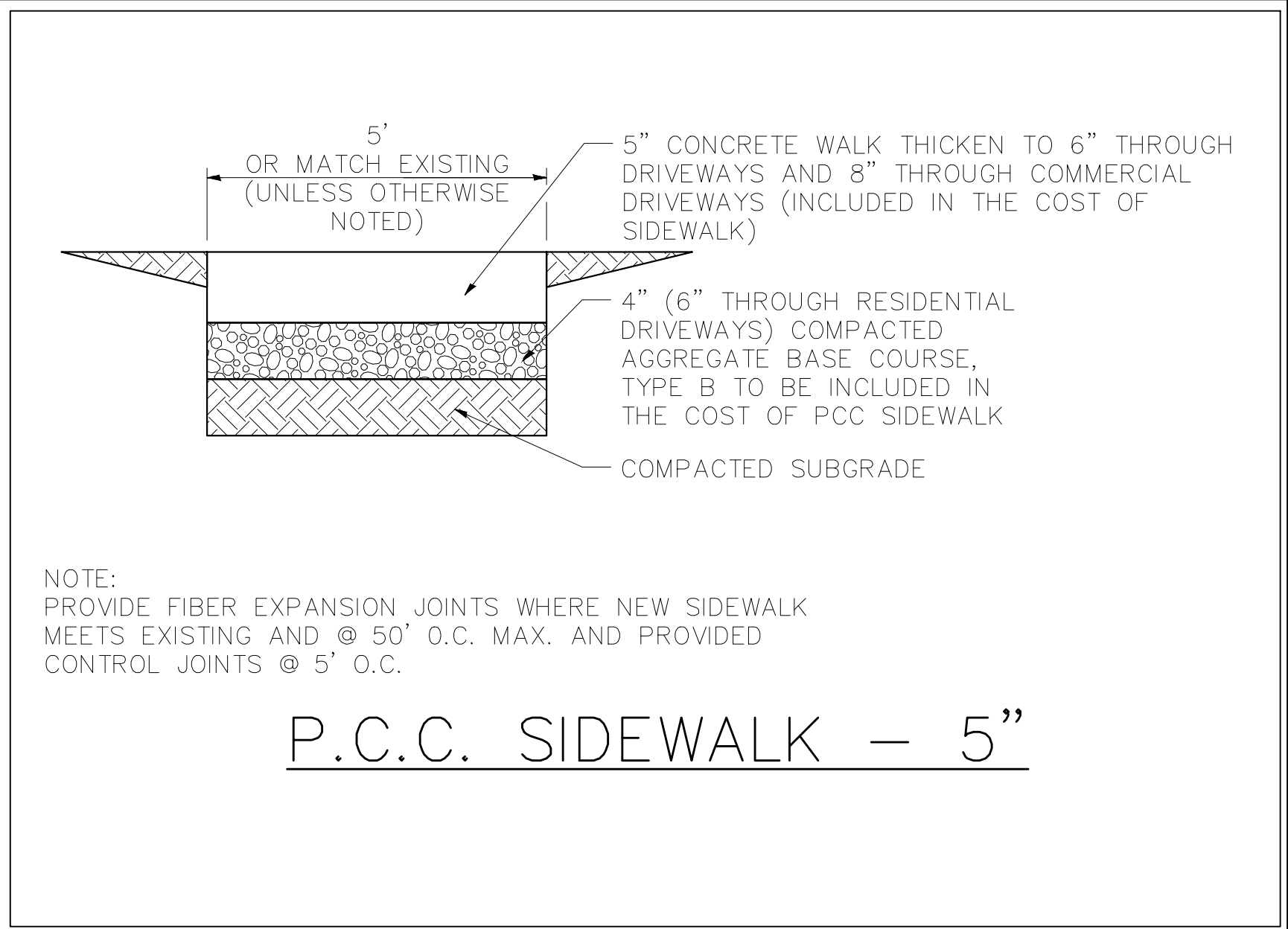
- GENERAL NOTES:**
1. PROVIDE PRECAST REINFORCED CONCRETE BARREL AND RISER SECTION. CONCRETE BLOCK CONSTRUCTION IS NOT PERMITTED.
  2. PROVIDE GRANULAR BACKFILL AROUND INLET TO SUBGRADE ELEVATION IN PAVED AREAS. MATERIAL SHALL MEET THE REQUIREMENTS OF IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION FOR COARSE AGGREGATE (CA-6 GRADATION).
  3. WHEN THE FRAME DOES NOT MEET PROPOSED ELEVATION, A MAXIMUM OF TWO PRECAST CONCRETE RINGS MAY BE USED TO A MAXIMUM HEIGHT OF 12 INCHES. THE RINGS AND FRAME SHALL BE SET IN A BED OF PREFORMED NON-HARDENING MASTIC (RUB-R-NEK, EZ STICK OR APPROVED EQUAL).
  4. PRECAST ADJUSTING RINGS SHALL BE REINFORCED WITH NO. 3 GAUGE WIRE OR EQUIVALENT AND SHALL HAVE A MINIMUM THICKNESS OF TWO INCHES.
  5. MORTAR SHALL NOT BE USED TO DRESS UP ADJUSTING RINGS AND/OR FRAME.
  6. IN PAVED AREAS, DRAIN HOLES/SWEEP HOLES SHALL BE COVERED WITH FILTER FABRIC. FILTER FABRIC SHALL BE SECURED TO THE OUTSIDE OF STRUCTURE PRIOR TO BACKFILL.
  7. IN GRASSED AREAS, DRAIN HOLES/SWEEP HOLES SHALL BE PLUGGED WITH HYDRAULIC CEMENT.



- GENERAL NOTES:**
1. PROVIDE PRECAST REINFORCED CONCRETE BARREL AND RISER SECTIONS. CONCRETE BLOCK CONSTRUCTION IS NOT PERMITTED.
  2. PROVIDE GRANULAR BACKFILL AROUND CATCHBASIN TO SUBGRADE ELEVATION IN PAVED AREAS. MATERIAL SHALL MEET THE REQUIREMENTS OF IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION FOR COARSE AGGREGATE (CA-6 GRADATION).
  3. APPLY A CONTINUOUS LAYER OF NON-HARDENING PREFORMED BITUMINOUS MASTIC MATERIAL (RUB-R-NEK OR EZ STICK) TO EACH JOINT TO PREVENT INFLOW.
  4. WHEN THE FRAME DOES NOT MEET PROPOSED ELEVATION, A MAXIMUM OF TWO PRECAST CONCRETE RINGS MAY BE USED TO A MAXIMUM HEIGHT OF 12 INCHES. THE RINGS AND FRAME SHALL BE SET IN A BED OF PREFORMED NON-HARDENING MASTIC (RUB-R-NEK, EZ STICK OR APPROVED EQUAL).
  5. PRECAST ADJUSTING RINGS SHALL BE REINFORCED WITH NO. 3 GAUGE WIRE OR EQUIVALENT AND SHALL HAVE A MINIMUM THICKNESS OF TWO INCHES.
  6. MORTAR SHALL NOT BE USED TO DRESS UP ADJUSTING RINGS AND/OR FRAME.
  7. ONLY PLASTIC POLYMER STEPS SHALL BE USED.
  8. WHEN CATCHBASIN DEPTH IS OVER 12 FEET, THE THICKNESS OF THE PRECAST, REINFORCED CONCRETE BASE SHALL BE A MINIMUM OF 10 INCHES. WHEN CATCHBASIN DEPTH IS LESS THAN 12 FEET, THE THICKNESS SHALL BE A MINIMUM OF 8 INCHES.
  9. DRESS UP INTERIOR JOINTS OF PRECAST CATCHBASIN AND OPENINGS AROUND THE PIPES WITH HYDRAULIC CEMENT.
  10. IN PAVED AREAS, DRAIN HOLES/SWEEP HOLES SHALL BE COVERED WITH FILTER FABRIC. FILTER FABRIC SHALL BE SECURED TO THE OUTSIDE OF STRUCTURE PRIOR TO BACKFILL.
  11. IN GRASSED AREAS, DRAIN HOLES/SWEEP HOLES SHALL BE PLUGGED WITH HYDRAULIC CEMENT.



- 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" REBAR TO BE PLACED AT ALL EXPANSION JOINTS.



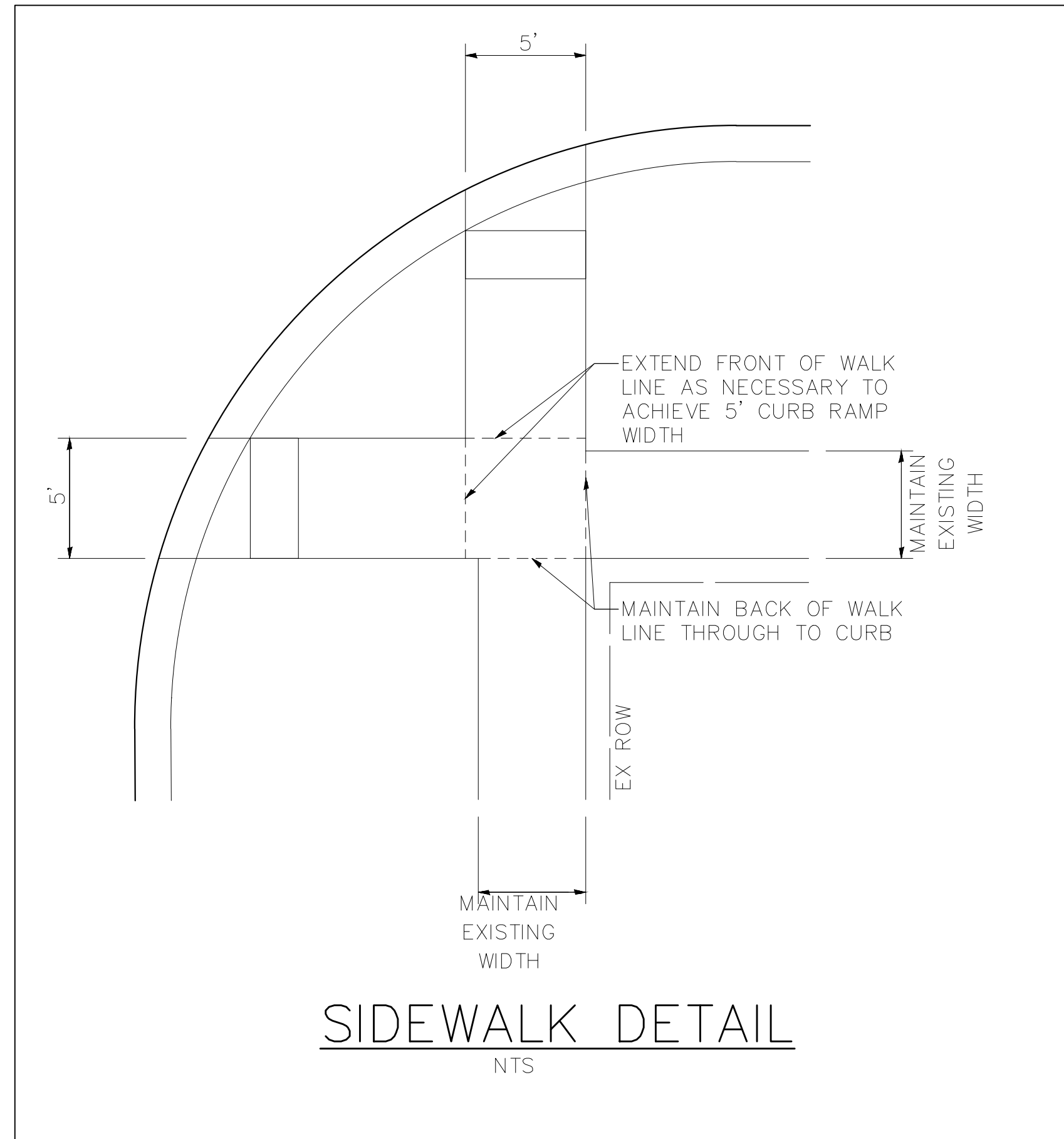
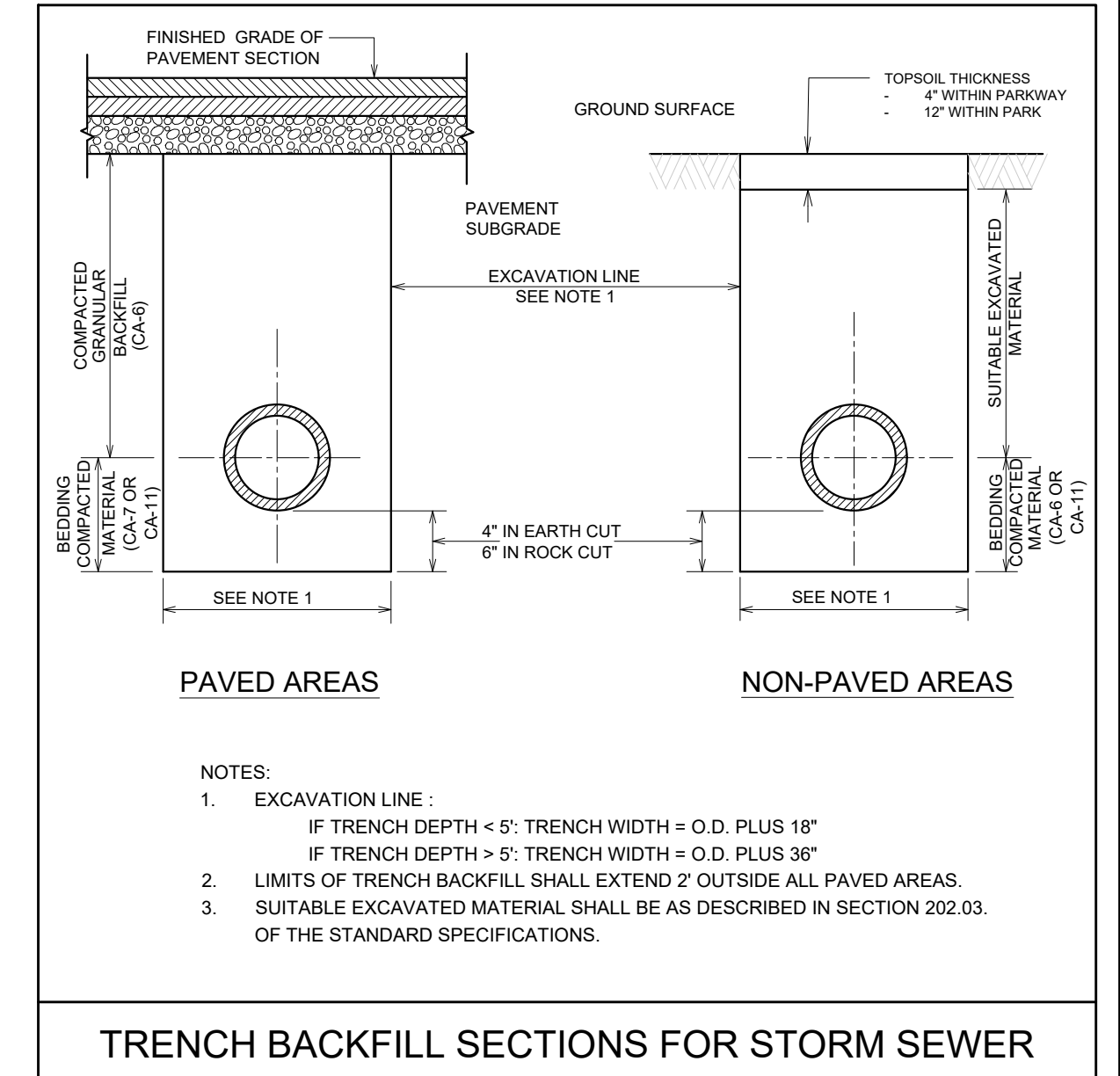
NOTE:  
PROVIDE FIBER EXPANSION JOINTS WHERE NEW SIDEWALK MEETS EXISTING AND @ 50' O.C. MAX. AND PROVIDED CONTROL JOINTS @ 5' O.C.

**P.C.C. SIDEWALK - 5"**

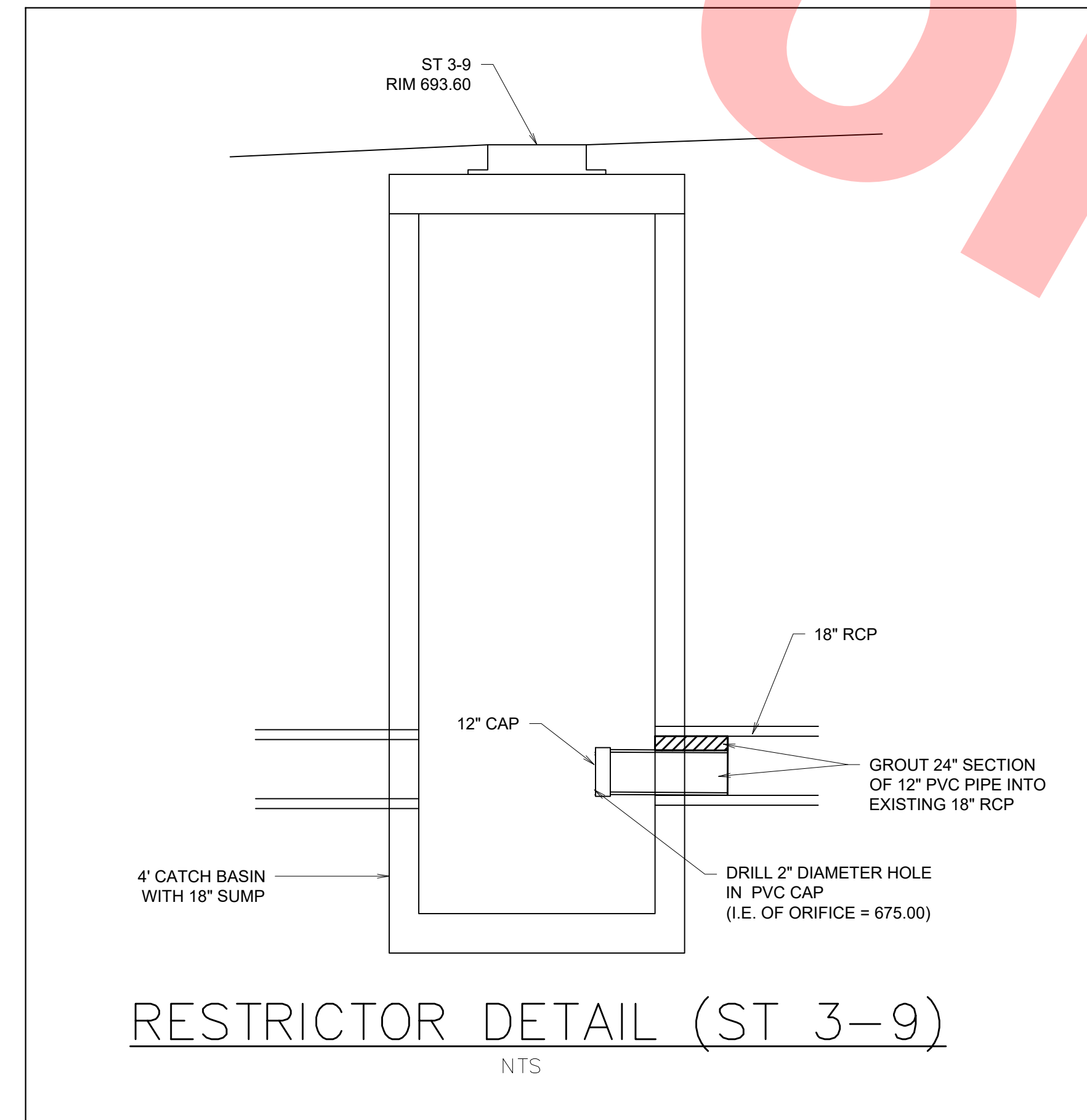
REV: _____	DATE: _____	INLET TYPE "A"	VILLAGE OF VILLA PARK STORM - 15
REV: RMS	DATE: JUL 2004		
DRAWN BY: VV	DATE: JAN 2003		

REV: _____	DATE: _____	CATCH BASIN TYPE "A"	VILLAGE OF VILLA PARK STORM - 16
REV: RMS	DATE: JUL 2004		
DRAWN BY: VV	DATE: JAN 2003		

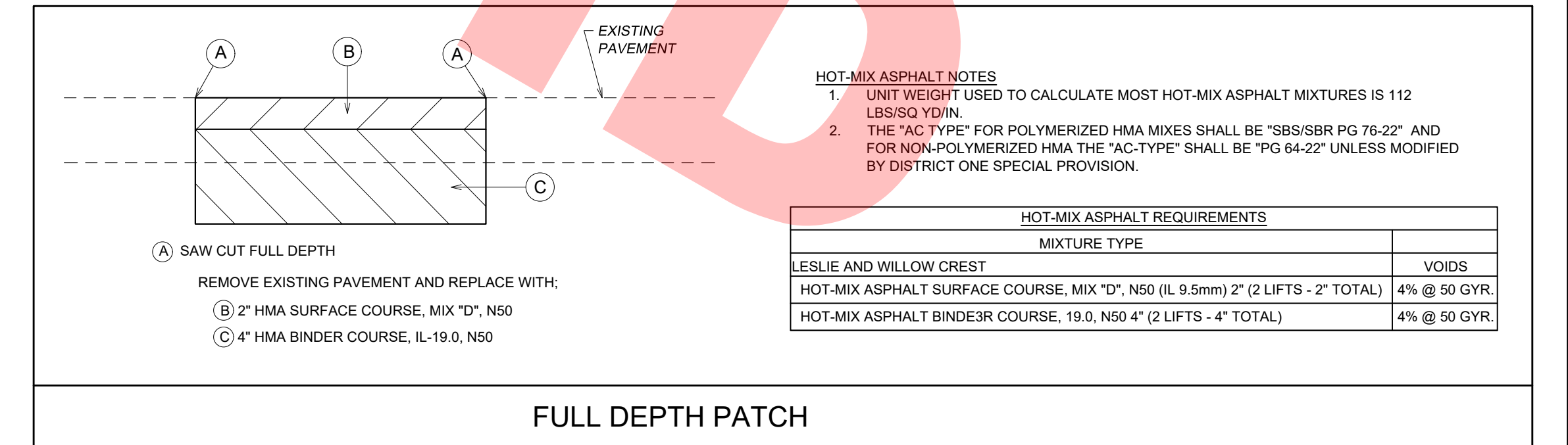
REV: _____	DATE: _____	COMBINATION CONCRETE CURB AND GUTTER	VILLAGE OF VILLA PARK ROAD - 02
REV: RMS	DATE: JUL 2004		
DRAWN BY: VV	DATE: JAN 2003		



**SIDEWALK DETAIL**  
NTS



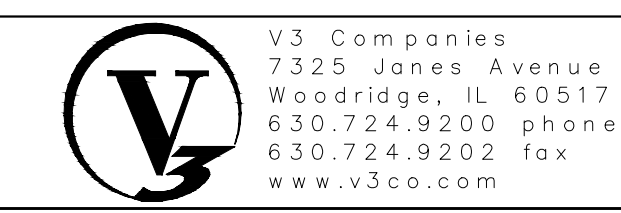
**RESTRICTOR DETAIL (ST 3-9)**  
NTS



**HOT-MIX ASPHALT NOTES**

1. UNIT WEIGHT USED TO CALCULATE MOST HOT-MIX ASPHALT MIXTURES 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 PROVISION.

HOT-MIX ASPHALT REQUIREMENTS	
MIXTURE TYPE	VOIDS
LESLIE AND WILLOW CREST	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm) 2" (2 LIFTS - 2" TOTAL)	4% @ 50 GYR.
HOT-MIX ASPHALT BINDE3R COURSE, 19.0, N50 4" (2 LIFTS - 4" TOTAL)	4% @ 50 GYR.

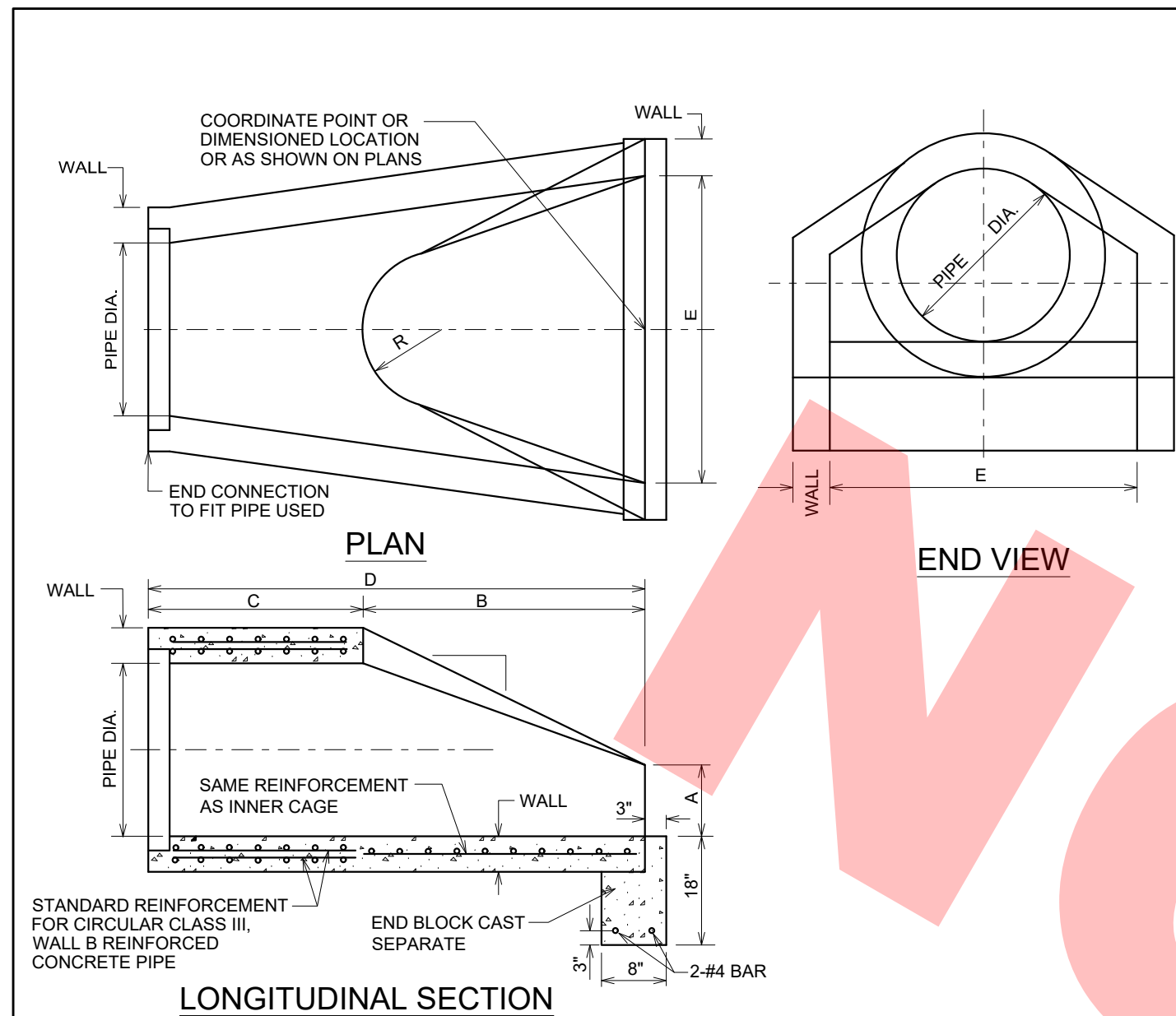


DESIGNED - CWH	REVISED - _____
DRAWN - BAO	REVISED - _____
CHECKED - DLM	REVISED - _____
DATE - 1/23/2018	REVISED - _____

**JACKSON POND OUTLET**

**CONSTRUCTION DETAILS**

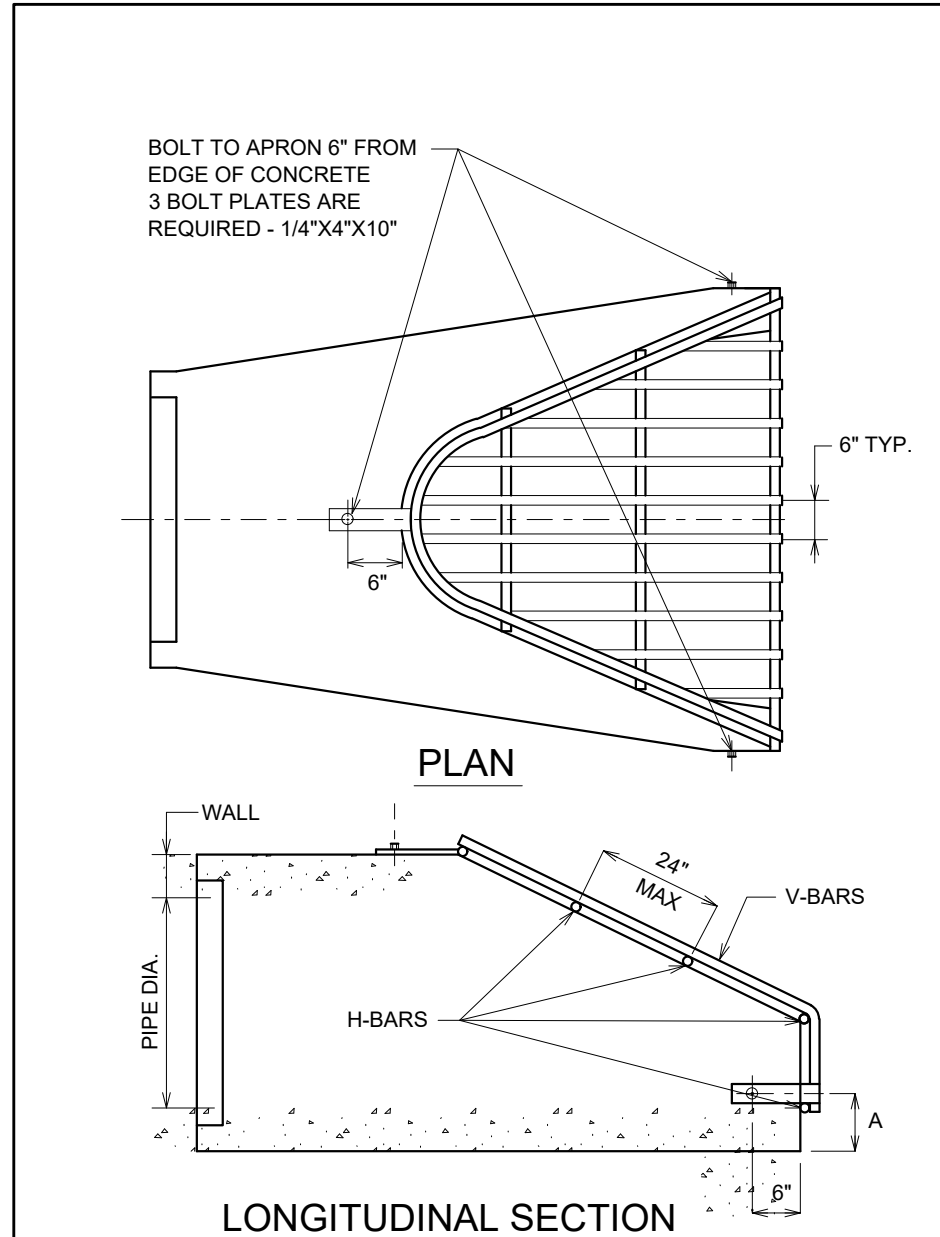
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				12
CONTRACT NO. _____				
ILLINOIS FED. AID PROJECT				



PIPE DIA.	WALL	A	B	C	D	E	R	SLOPE
12"	2"	4"	2'-0"	4'-0 1/8"	6'-0 1/8"	2'-0"	9"	3:1
15"	2 1/4"	6"	2'-3"	3'-10"	6'-1"	2'-6"	11"	3:1
18"	2 1/2"	9"	2'-3"	3'-10"	6'-1"	3'-0"	12"	3:1
21"	2 3/4"	9"	2'-11"	3'-2"	6'-1"	3'-6"	13"	3:1
24"	3"	9 1/2"	3'-7 1/2"	2'-6"	6'-1 1/2"	4'-0"	14"	3:1
27"	3 1/4"	10 1/2"	4'-0"	2 5/2"	6'-1 1/2"	4'-6"	14 1/2"	3:1
30"	3 1/2"	12"	4'-6"	19 3/4"	6'-1 3/4"	5'-0"	15"	3:1
33"	3 3/4"	13 1/2"	4'-10 1/2"	38 1/4"	8'-1 3/4"	5'-6"	17 1/2"	3:1
36"	4"	15"	5'-3"	34 3/4"	8'-1 3/4"	6'-0"	20"	3:1
42"	4 1/2"	21"	5'-3"	35"	8'-2"	6'-6"	22"	3:1
48"	5"	24"	6'-0"	26"	8'-2"	7'-0"	22"	3:1
54"	5 1/2"	27"	5'-5"	35"	8'-4"	7'-6"	24"	2.4:1
60"	6"	35"	5'-0"	39"	8'-3"	8'-0"	*	2:1
66"	6 1/2"	30"	6'-0"	27"	8'-3"	8'-6"	*	2:1
72"	7"	36"	6'-6"	21"	8'-3"	9'-0"	*	2.26:1
78"	7 1/2"	36"	7'-6"	21"	9'-3"	9'-6"	*	2.12:1
84"	8"	36"	7'-6 1/2"	21"	9'-3 1/2"	10'-0"	*	1.94:1

- \*RADIUS AS FURNISHED BY MANUFACTURER
- NOTES:
1. PRECAST CONCRETE FLARED END SECTION SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M-170 CLASS III. WALL B REINFORCED CONCRETE PIPE.
  2. LENGTHS OF PIPE WHICH TERMINATE WITH A FLARED END SECTION INCLUDE THE LENGTH OF THE FLARED END SECTION.

PRECAST REINFORCED CONCRETE FLARED END SECTION



- NOTES:
1. BARS AND PLATES ARE HOT-ROLLED STEEL.
  2. BARS, PLATES AND PIPE ARE FINISHED WITH 2 COATS OF ALUMINUM PAINT.
  3. BOLTS ARE GALVANIZED.

ROUND PIPE APRONS	APRON SIZE	V-BAR SIZE	H-BAR SIZE	NO. OF H-BARS REQD	BOLT DIA	"A" DIM
	INCHES				INCHES	
	12	1/2 DIA	5/8 DIA	3	1/2	4
	15	1/2 DIA	5/8 DIA	3	1/2	4 1/2
	18	1/2 DIA	5/8 DIA	4	1/2	4 1/2
	21	1/2 DIA	5/8 DIA	4	1/2	5
	24	5/8 DIA	3/4 DIA	4	1/2	5
	27	5/8 DIA	3/4 DIA	4	1/2	5 1/2
	30	5/8 DIA	3/4 DIA	4	1/2	5 1/2
	36	3/4 DIA	1 DIA	4	3/4	8
	42	3/4 DIA	1 DIA	4	3/4	8
	48	3/4 DIA	1 DIA	5	3/4	8
	54	3/4 DIA	1 1/2 PIPE	5	3/4	8
	60	3/4 DIA	1 1/2 PIPE	5	3/4	8
	66	3/4 DIA	1 1/2 PIPE	6	3/4	8
	72	3/4 DIA	1 1/2 PIPE	6	3/4	9
	84	3/4 DIA	1 1/2 PIPE	7	3/4	10
	90	3/4 DIA	1 1/2 PIPE	7	3/4	14

GRATE FOR FLARED END SECTION

FOR BID



V3 Companies  
7325 Jones Avenue  
Woodridge, IL 60517  
630.724.9200 phone  
630.724.9202 fax  
www.v3co.com

DESIGNED — CWH	REVISED —
DRAWN — BAO	REVISED —
CHECKED — DLM	REVISED —
DATE — 1/23/2018	REVISED —

JACKSON POND OUTLET

CONSTRUCTION DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DUPAGE	13	13
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				