

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
1004	08-00079-02-FP	COOK	32	1
FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT		

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PLANS FOR PROPOSED FEDERAL AID HIGHWAY

MAPLE AVENUE RELIEF SEWER SECTION 08-00079-02-FP PROJECT NO. M-9003 (168) COOK COUNTY C-91-203-09

FOR INDEX OF SHEETS SEE SHEET NO. 2

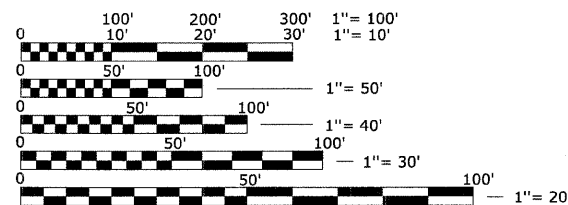
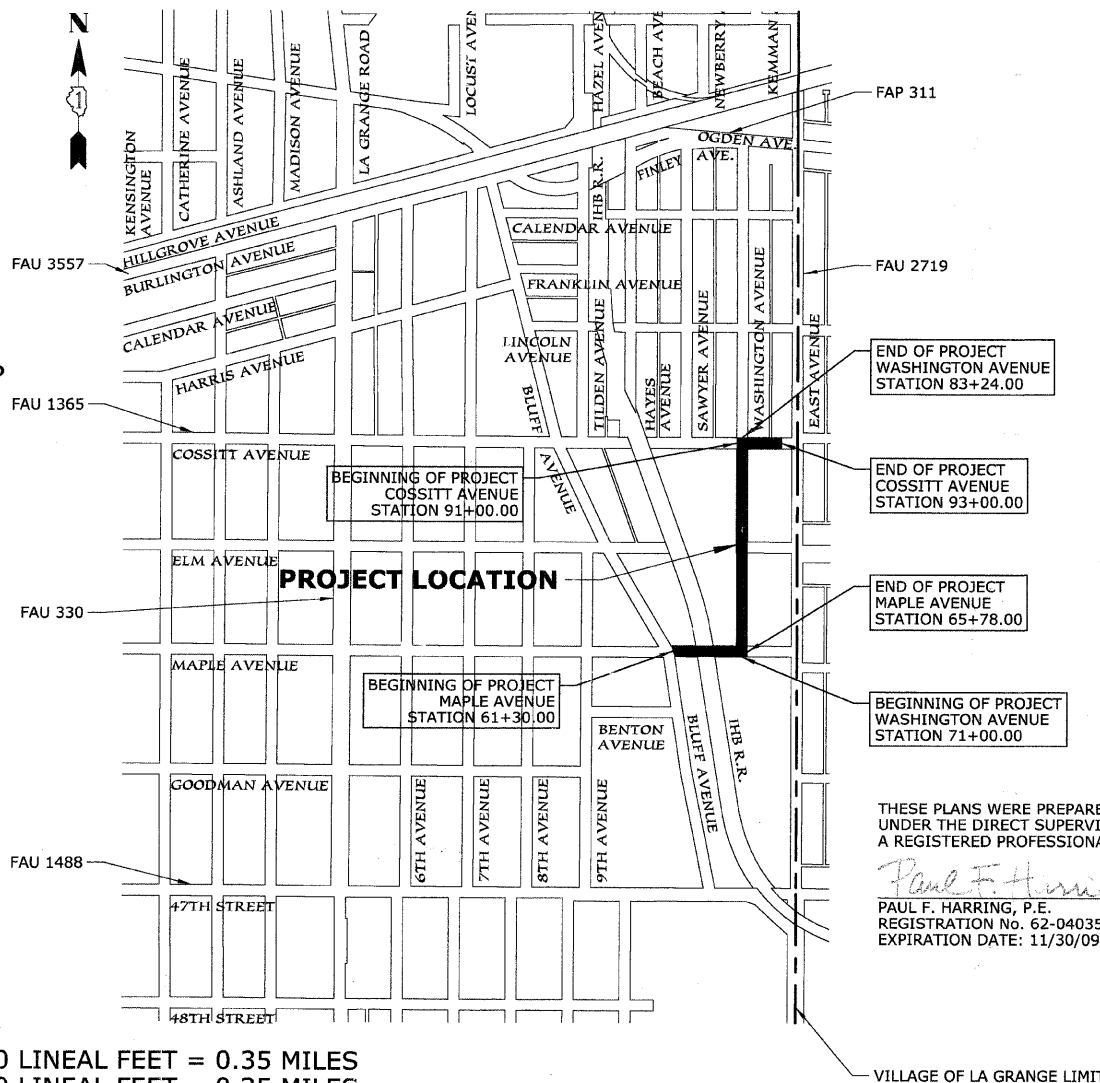
PROJECT STAGE 2

PROJECT LOCATED IN THE VILLAGE OF LA GRANGE

FIELD ENGINEER - MARILIN SOLOMON 847-705-4407



SECTION 4,
TOWNSHIP 38N,
RANGE 12E
LYONS TOWNSHIP



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.

FOR UTILITY INFORMATION
CALL J.U.L.I.E.
1-800-892-0123

THESE PLANS WERE PREPARED BY HEUER AND ASSOCIATES, P.C. UNDER THE DIRECT SUPERVISION OF PAUL F. HARRING, P.E., A REGISTERED PROFESSIONAL ENGINEER OF THE STATE OF ILLINOIS.

Paul F. Harring
PAUL F. HARRING, P.E.
REGISTRATION No. 62-040352
EXPIRATION DATE: 11/30/09

DATE: 27 Feb 2009



VILLAGE OF LA GRANGE LIMITS

GROSS LENGTH OF PROJECT = 1,872.00 LINEAL FEET = 0.35 MILES
NET LENGTH OF PROJECT = 1,872.00 LINEAL FEET = 0.35 MILES

CONTRACT NO. 63149

HEUER AND ASSOCIATES
Consulting Engineers
2315 Enterprise Drive - Suite 102 Westchester, IL 60154-5811 708-492-1000

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

APPROVED: *Paul F. Harring* MARCH 4, 2009
Village of La Grange, Division of Public Works
LOCAL AGENCY, POSITION

PASSED: *April 06* 2009
Cheryl Christman
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW: *April 06* 2009
Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

PRINTED BY AUTHORITY OF
THE STATE OF ILLINOIS

LEGEND		
EXISTING SYMBOL	PROPOSED SYMBOL	DESCRIPTION
		DECIDUOUS TREE
		EVERGREEN TREE
		HANDHOLE, TYPE A
		CONCRETE LIGHTPOLE - ARM TYPE
		LIGHTPOLE - LA GRANGE RESIDENTIAL STANDARD
		POWER POLE
		MANHOLE
		CATCHBASIN
		INLET
		VALVE & VAULT
		VALVE BOX
		B-BOX
		FIRE HYDRANT
		ELECTRICAL VAULT
		TELEPHONE VAULT
		ELECTRIC CABLE
		GAS MAIN
		TELEPHONE CABLE/DUCT
		WATER MAIN
		COMBINATION SEWER
		SANITARY SEWER
		STORM SEWER
		SEWER SERVICE
		WATER SERVICE
		MANHOLE RIM=704.99 INV=692.51 N INV=692.51 S
		STRUCTURE # RIM: 600.00 INV: 595.00
		COMBINATION CURB AND GUTTER
		PROPOSED P.C.C. DRIVEWAY
		PROPOSED P.C.C. SIDEWALK
		PROPOSED TRANSITION PATCH
		PROPOSED HMA SURFACE COURSE - BUTT JOINT
		PROPOSED DETECTABLE WARNING PLATE

INDEX OF SHEETS	
SHEET NUMBER	DRAWING TITLE
1	COVER SHEET
2	INDEX OF SHEETS, STATE STANDARDS AND LEGEND
3	GENERAL NOTES
4	SUMMARY OF QUANTITIES
5	SCHEDULE OF QUANTITIES
6	TYPICAL SECTIONS
7	ALIGNMENT, TIES AND ELEVATION CONTROL
8	MAINTENANCE OF TRAFFIC
9	ROUTE OUTLET MAP
10-13	EXISTING CONDITIONS
14-17	REMOVAL AND EROSION CONTROL PLAN
18-21	PAVEMENT PLAN AND PROFILE
22-25	DRAINAGE AND UTILITY IMPROVEMENTS
26-27	SEWER OUTLET CROSS-SECTIONS
28-32	CONSTRUCTION DETAILS - SPECIAL

STATE STANDARDS	
STANDARD No.	DRAWING TITLE
280001-04 701501-05 701801-04 701901-01	TEMPORARY EROSION CONTROL SYSTEMS URBAN LANE CLOSURE, 2L, 2W UNDIVIDED SIDEWALK CLOSURE TRAFFIC CONTROL DEVICES
DISTRICT 1 STANDARDS BD 22 TC 10 TC 13	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS TYPICAL PAVEMENT MARKING

PLAN	REVISIONS	DATE
NO.	BY	
	DATE	
	BY	
	DATE	
	BY	
	DATE	

PROFILE	REVISIONS	DATE
NO.	BY	
	DATE	
	BY	
	DATE	
	BY	
	DATE	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**BLUFF AVENUE IMPROVEMENTS
 STAGE 2**
**INDEX OF SHEETS, STATE STANDARDS
 AND LEGEND**
 SCALE: _____ DRAWN BY H&A
 DATE 02/27/2009 CHECKED BY PFH

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE SPECIFICATIONS, GENERAL CONDITIONS, SPECIAL PROVISIONS, AND OTHER CONTRACT REQUIREMENTS OF THE OWNER; CODES, STANDARDS, AND ORDINANCES OF THE VILLAGE OF LA GRANGE; PLANS, DETAILS, AND SPECIFICATIONS ISSUED BY THE ENGINEER; THE APPLICABLE PROVISIONS OF THE 2007 EDITION OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION"; THE 2003 EDITION OF THE "ILLINOIS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE 1996 EDITION OF THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS"; AND THE 1999 EDITION OF THE "MANUAL OF PROCEDURES FOR THE ADMINISTRATION OF A SEWER PERMIT ORDINANCE"; INCLUDING ALL APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND REVISIONS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL UNDERGROUND UTILITIES AND SHALL CONTACT J.U.L.I.E. (1-800-892-0123), THE OWNER, AND EACH OF THE OTHER MUNICIPAL, GOVERNMENTAL AND/OR PRIVATE UTILITY COMPANIES, WHICH MAY HAVE THEIR FACILITIES LOCATED WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENTS TO AID IN THE LOCATION OF FACILITIES. THE CONTRACTOR SHALL PROVIDE THE OWNER AND ALL PERMITTING AGENCIES AT LEAST TWO (2) WORKING DAYS OF NOTICE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

3. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND THE ENGINEER FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES, DIRECT, INDIRECT, OR CONSEQUENTIAL, ARISING OUT OF, OR FROM THE PERFORMANCE OF THE WORK.

4. ALL FENCES, BUILDINGS, WALKWAYS, TREES, LANDSCAPING, AND OTHER EXISTING FEATURES IN PRIVATE PROPERTY AREAS ADJACENT TO THE PROJECT LIMITS SHALL BE PROTECTED FROM DAMAGE DURING THE COURSE OF CONSTRUCTION, UNLESS OTHERWISE SPECIFIED BY THE OWNER. DAMAGED PROPERTY SHALL BE RESTORED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER WITHOUT ADDITIONAL COMPENSATION.

5. ALL SAW CUTTING REQUIRED TO DEFINE PAVEMENT REMOVAL LIMITS OR TO CUT OTHER MATERIALS REQUIRED IN THE CONSTRUCTION OF THE PAVING IMPROVEMENTS SHALL BE CONSIDERED AS INCIDENTAL TO THE PAVING WORK.

6. THE CONTRACTOR SHALL PROTECT PAVEMENTS, WALKS, CURBS, BURIED STRUCTURES, AND OTHER SUCH FEATURES WITHIN AND ADJACENT TO THE PAVEMENT WORK ZONE NOT DESIGNATED FOR REMOVAL. DAMAGED MATERIALS SHALL BE REPLACED AT THE SOLE EXPENSE OF THE CONTRACTOR.

7. ALL TRENCHES SHALL BE EXCAVATED AT THE MINIMAL WIDTH REQUIRED TO INSTALL THE SEWER PIPE, AS INDICATED IN THE PLAN DETAILS. THE CONTRACTOR SHALL MAKE ALLOWANCES FOR ANY SHEETING, SHORING, BRACING, TRENCH BOXES, OR OTHER MEASURES REQUIRED TO INSTALL THE SEWER AND MAINTAIN MINIMAL TRENCH WIDTHS. THE CONTRACTOR SHALL MAKE PROVISIONS TO MANAGE GROUND WATER OR SEWER FLOW BY PUMPING OR FLUMING THROUGH THE WORK ZONE DURING THE COURSE OF CONSTRUCTION. ALL TRENCH SUPPORT OR WATER MANAGEMENT MEASURES REQUIRED SHALL BE CONSIDERED AS INCIDENTAL TO THE SEWER WORK.

8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN AND CONSTRUCT ALL TEMPORARY EARTH RETENTION TO COMPLY WITH APPLICABLE SAFETY AND ENGINEERING STANDARDS. THE CONTRACTOR SHALL FURNISH TO THE OWNER AND TO THE ENGINEER CALCULATIONS AND DESIGN FILES PREPARED BY A LICENSED STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO COMMENCING WITH THE EARTH RETENTION INSTALLATION.

9. THE CONTRACTOR SHALL MANAGE THE PLACEMENT AND HANDLING OF ALL NEW MATERIALS AND WASTE MATERIALS GENERATED BY THE CONSTRUCTION OPERATIONS. CONSTRUCTION ACCESS POINTS TO THE SITE SHALL BE PROTECTED IN SUCH A WAY AS TO PREVENT TRACKING OF SOIL AND AGGREGATE ONTO PUBLIC THOROUGHFARES. AT THE END OF EACH WORK DAY THE CONTRACTOR SHALL PERFORM SITE MAINTENANCE REMOVING AND/OR RELOCATING MATERIALS WHICH INTERFERE WITH PUBLIC USE OF AREAS ADJACENT TO THE WORK ZONE, KEEPING SIDEWALKS, ROADWAYS, AND OTHER PASSAGE-WAYS FREE OF ACCUMULATIONS OF WATER, MUD, SPOIL, AND OTHER CONSTRUCTION DEBRIS.

10. THE CONTRACTOR SHALL RECORD DIMENSIONS AND ELEVATIONS OF CONSTRUCTED UTILITIES AND MAINTAIN A COPY OF THE SUCH RECORDS ON MARKED DRAWINGS TO DOCUMENT CHANGES. THE RECORD DRAWINGS SHALL BE PROVIDED TO THE ENGINEER AT THE COMPLETION OF THE CONSTRUCTION WORK.

LANDSCAPING NOTES:

1. ALL DISTURBED AREAS SHALL BE RESTORED WITH TOPSOIL AND SALT TOLERANT SOD. LIMITS FOR RESTORATION SHALL BE UP TO THE RIGHT OF WAY LIMITS UNLESS OTHERWISE NOTED.

2. UNLESS SPECIFICALLY DIRECTED ON THE PLANS OR DIRECTED/ APPROVED BY THE ENGINEER, PAYMENT FOR SOD RESTORATION SHALL BE LIMITED TO 3 FEET ALONG REPLACED CURB, SIDEWALK, OR DRIVEWAY APRON. SODDING SHALL BE PLACED IN ACCORDANCE WITH THE SEASONAL SCHEDULE AS OUTLINED IN ARTICLE 252.04 OF THE IDOT STANDARD SPECIFICATION. SEASONAL PLANTING SCHEDULE FOR SEEDING SHALL BE OUTLINED IN ACCORDANCE WITH ARTICLE 250.07 OF THE IDOT STANDARD SCHEDULE.

3. NUTRIENT ALLOWANCE FOR SODDING:

NITROGEN FERTILIZER NUTRIENTS 60 LB/ACRE
 PHOSPHORUS FERTILIZER NUTRIENTS 60 LB/ACRE
 POTASSIUM FERTILIZER NUTRIENTS 60 LB/ACRE

NUTRIENT ALLOWANCE FOR SEEDING:

NITROGEN FERTILIZER NUTRIENTS 90 LB/ACRE
 PHOSPHORUS FERTILIZER NUTRIENTS 90 LB/ACRE
 POTASSIUM FERTILIZER NUTRIENTS 90 LB/ACRE

4. ALL SODDING SHALL BE ROLLED AFTER PLACEMENT. SOD STAKING SHALL BE REQUIRED AT THE DISCRETION OF THE ENGINEER.

5. PROVISIONS SHALL BE MADE FOR WATERING AND MAINTENANCE UNTIL THE PLANTING MATERIALS HAVE BECOME ESTABLISHED AS IN ARTICLE 253 OF THE IDOT STANDARD SPECIFICATION.

6. ALL DISTURBED LANDSCAPE AREAS SHALL BE RESTORED WITH THE SPECIFIED LANDSCAPE MATERIALS IN ACCORDANCE WITH SEASONAL AND PROJECT PLANTING SCHEDULES. A MINIMUM OF FOUR INCHES OF TOPSOIL SHALL BE PLACED ON CLEAN PREPARED SOILS WHERE LANDSCAPE AREAS ARE TO BE ESTABLISHED. PROVISIONS SHALL BE MADE FOR WATERING AND MAINTENANCE UNTIL PLANTING MATERIALS HAVE BECOME ESTABLISHED AS OUTLINED IN SECTION 253 OF THE IDOT STANDARD SPECIFICATIONS.

PAVEMENT MARKING NOTES:

1. LOCATION AND PLACEMENT OF ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THAT STIPULATED ON THE PLANS, AS OUTLINED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2003 EDITION, REVISION 1), OR AS INDICATED BY THE ENGINEER

2. THERMOPLASTIC PAVEMENT MARKING SHALL BE USED FOR BITUMINOUS SURFACES.

3. ALL LINES TO BE WHITE UNLESS OTHERWISE NOTED.

MWRD GENERAL NOTES

1. THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRDGC), LOCAL SEWER SYSTEMS SECTION, FIELD OFFICE SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF SEWER WORK TO COORDINATE INSPECTION SERVICES, (708-588-4055).

2. THE PLAN ELEVATIONS ARE BASED UPON A USGS DATUM ELEVATION. THE CITY OF CHICAGO STANDARD DATUM IS 579.48 FEET LOWER THAN THE PLAN DATUM.

3. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.

4. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE GROUND SURFACE OR STORM WATER DRAINAGE SYSTEM.

5. ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN COMBINED SEWER AREAS) SHALL CONFORM TO FOLLOWING LISTED SPECIFICATIONS:

MATERIAL: POLY VINYL CHLORIDE (PVC)
 CYLINDER SPECIFICATION: SDR 26, ASTM D-3034
 JOINT SPECIFICATION: ASTM D-3212

MATERIAL: CEMENT LINED CAST DUCTILE IRON (DI)
 CYLINDER SPECIFICATION: CLASS 52, ANSI A-21.51
 JOINT SPECIFICATION: ANSI A-21.11

MATERIAL: REINFORCED CONCRETE PIPE (RCP)
 CYLINDER SPECIFICATION: ASTM C-76
 JOINT SPECIFICATION: ASTM C-443 OR ASTM D-361

6. ALL SANITARY SEWER CONSTRUCTION, AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS, REQUIRES STONE BEDDING WITH A 1/4 INCH TO 1 INCH GRADATION WITH A MINIMUM BEDDING THICKNESS EQUAL TO ONE QUARTER OF THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN 4 INCHES NOR MORE THAN 8 INCHES IN THICKNESS. THE BEDDING MATERIAL SHALL ALSO BEING PLACED TO A DEPTH OF AT LEAST 12 INCHES ABOVE THE TOP OF THE SEWER PIPE WHEN USING PVC SEWER MATERIAL. ALL BEDDING MATERIAL SHALL CONSIST OF CRUSHED LIMESTONE, CONFORMING TO IDOT GRADATION CA-11 OR CA-13.

7. NON-SHEAR TYPE FLEXIBLE TYPE COUPLINGS, FERNCO, BAND-SEAL, OR EQUAL SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR MATERIALS, AND TO JOIN NEW AND OLD PIPE OR SIMILAR COMPOSITION WHEN POINT REPAIRS ARE REQUIRED.

8. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR MANHOLE, THE CONNECTION CAN BE MADE BY (A) INSTALLING A NEW MANHOLE TO ACCEPT THE PROPOSED BRANCH SEWER; OR (B) BY CIRCULAR SAW-CUTTING THE SEWER MAIN WITH A PROPER TAPPING MACHINE AND THE INSTALLATION OF AN APPROVED HUB WYE SADDLE OR HUB TEE SADDLE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION; OR (C) BY REMOVING AN ENTIRE SECTION OF PIPE AND INSTALLING A MANUFACTURED WYE OR TEE FITTING. WHEN REMOVING THE PIPE SECTION A PIPE CUTTER, SHALL BE USED TO NEATLY AND ACCURATELY CUT OUT A DESIRED LENGTH OF PIPE FOR INSERTION OF THE PROPER FITTING. BAND-SEAL OR SIMILAR FLEXIBLE COUPLINGS ARE TO BE USED TO FASTEN AND SECURE THE INSERTED FITTING AND PIPE TO THE EXISTING SEWER.

9. WHEREVER A SANITARY OR COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN THE SEWERS AND WATER MAINS SHALL BE MAINTAINED UNLESS THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM OF 18 INCHES VERTICAL SEPARATION; OR THE SEWER IS LAID SO THAT THE WATERMAIN IS LOCATED IN THE SAME TRENCH ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18 INCH VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED ABOVE CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATERMAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS.

10. ALL EXISTING SEPTIC TANKS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.

11. ALL SANITARY MANHOLES, AND ALSO STORM MANHOLES IN COMBINED SEWER AREAS, SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES AND SHALL BE CAST IN PLACE OR PRECAST REINFORCED CONCRETE. ALL SANITARY SEWER PIPE CONNECTIONS TO MANHOLES SHALL BE CONSTRUCTED USING RESILIENT CONNECTORS OR COUPLINGS CONFORMING TO ASTM C923 TO MAINTAIN A WATERTIGHT SEAL.

12. ALL SEWER CONSTRUCTION SHALL CONFORM TO THE PLANS, OR REVISED PLANS, AS APPROVED UNDER THE PERMIT ISSUED BY THE MWRDGC.

13. THE MAXIMUM ALLOWABLE RATE OF INFILTRATION FOR SANITARY SEWERS SHALL NOT EXCEED 100 HUNDRED GALLONS PER TWENTY-FOUR HOURS, PER MILE, PER INCH-DIAMETER OF PIPE.

14. ALL SANITARY SEWERS SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MWRD.

15. ABANDONED PIPES OR CONDUITS, SHALL BE REMOVED AND/OR SECURELY PLUGGED WITH CONCRETE EXTENDING A MINIMUM LENGTH OF 2 FEET.

PLAN	DESIGNED BY	DATE
	CHECKED BY	
NOTE BOOK NO.	REVISIONS PLOTTED	
	ALIGNMENT CHECKED	
	FIELD FILE NAME	

PROFILE	DESIGNED BY	DATE
	CHECKED BY	
NOTE BOOK NO.	REVISIONS PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION BLUFF AVENUE IMPROVEMENTS STAGE 2 GENERAL NOTES
NAME	DATE	
SCALE:	DRAWN BY H&A	
DATE 02/27/2009	CHECKED BY PFF	

HEUER AND ASSOCIATES

Consulting Engineers

2315 Enterprise Drive - Suite 102 Westchester, IL 60154-5811 708-492-1000

F.A.U. No.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
1004	08-00079-02-FP	COOK	32	4
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

CONTRACT No. 63149

PLAN	DATE	BY
SURVEYED		
ALIGNED		
CHECKED		
BY		
NO.		

PROFILE	DATE	BY
SURVEYED		
GRADES		
CHECKED		
BY		
NO.		

SUMMARY OF QUANTITIES						
#	CODE #	CONTRACT ITEM	QTY	UNIT	STU 1000	NON-PART
1	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	14	UNIT	14	
2	20101400	NITROGEN FERTILIZER NUTRIENT	18	POUND	18	
3	20101500	PHOSPHORUS FERTILIZER NUTRIENT	18	POUND	18	
4	20101600	POTASSIUM FERTILIZER NUTRIENT	18	POUND	18	
5	20101700	SUPPLEMENTAL WATERING	10	UNIT	10	
6	20200200	ROCK EXCAVATION	25	CU YD	25	
7	21001000	GEO TECHNICAL FABRIC FOR GROUND STABILIZATION	805	SQ YD	805	
8	21101615	TOPSOIL FURNISH AND PLACE, 4"	1,467	SQ YD	1,467	
9	25200650	SODDING, SALT TOLERANT (SPECIAL)	1,467	SQ YD	1,467	
10	28000510	INLET FILTERS	8	EACH	8	
11	31101000	SUB-BASE GRANULAR MATERIAL, TYPE B	210	TON	210	
12	40201000	AGGREGATE FOR TEMPORARY ACCESS	50	TON	50	
13	40600100	BITUMINOUS MATERIALS (PRIME COAT)	315	GALLON	315	
14	40600300	AGGREGATE (PRIME COAT)	1	TON	1	
15	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	349	SQ YD	349	
16	40701921	HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 12"	700	SQ YD	700	
17	42001300	PROTECTIVE COAT	250	SQ YD	250	
18	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	893	SQ FT	893	
19	44001900	COMBINATION CURB AND GUTTER REMOVAL (SPECIAL)	585	FOOT	585	
20	44004400	PAVEMENT REMOVAL (SPECIAL)	823	SQ YD	823	
21	44004700	SIDEWALK REMOVAL (SPECIAL)	921	SQ FT	921	
22	55022800	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS II 60"	301	FOOT	301	
23	550B0320	STORM SEWERS, CLASS B, TYPE 2 8"	28	FOOT	28	
24	550B0340	STORM SEWERS, CLASS B, TYPE 2 12"	257	FOOT	257	
25	60201330	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 23 FRAME AND GRATE	1	EACH	1	
26	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	3	EACH	3	
27	60233500	PRECAST "T" MANHOLES FOR 60" DIAMETER STORM SEWER, TYPE 1 FRAME, CLOSED LID	3	EACH	3	
28	60500040	REMOVING MANHOLES	1	EACH	1	
29	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	360	FOOT	360	
30	60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	195	FOOT	195	
31	66700095	PERMANENT SURVEY MARKERS	2	EACH	2	
32	67100100	MOBILIZATION	1	L SUM	1	
33	70101700	TRAFFIC CONTROL AND PROTECTION	1	L SUM	1	
34	70101900	TRAFFIC CONTROL AND PROTECTION (DETOUR 1)	1	L SUM	1	
35	X0322917	PROPOSED STORM SEWER CONNECTION TO EXISTING MANHOLE	1	EACH	1	
36	X4420132	CLASS D PATCHES, SPECIAL	15	SQ YD	15	
37	XX000405	BUTT JOINTS, SPECIAL	349	SQ YD	349	
38	XX003160	CAST IRON VAPOR TRAPS	1	EACH	1	
39	XX005314	BITUMINOUS DRIVEWAY REMOVAL	15	SQ YD	15	
40	XX005595	TRENCH BACKFILL, CA-6	2,242	CU YD	2,242	
41	XX006698	TREE PROTECTION AND PRESERVATION	7	EACH	7	
42	XX007357	CLASS C PATCHES, SPECIAL	85	SQ YD	85	
43	XX007729	DETECTABLE WARNING, SPECIAL	16	SQ FT	16	
44	XX007754	TRENCH BACKFILL, CA-11	446	CU YD	446	
45	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	1	L SUM	1	
46	Z0076600	TRAINEES	500	HOUR	500	
47	Xx008108	* SEWER IN STEEL CASING PIPE	160	FOOT	160	
48	Xx008111	* SEWER IN TUNNEL, 60"	1,275	FOOT	1,275	
49	Xx008112	* SEWER PIPE BULKHEAD 120"	1	EACH	1	
50	Xx008113	* SEWER PIPE BULKHEAD 60"	1	EACH	1	
51	X0325845	* STEEL CASING PIPE, AUGERED, 24"	160	FOOT	160	
52	Xx008114	* STORM SEWERS, CLASS B, TYPE 2 120"	167	FOOT	167	

* = DENOTES SPECIALTY ITEM
 Δ y080

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**BLUFF AVENUE IMPROVEMENTS
 STAGE 2**

SUMMARY OF QUANTITIES

SCALE: DATE 02/27/2009 DRAWN BY H&A CHECKED BY PFH

SCHEDULE OF QUANTITIES - SEWER PIPE													
PAY ITEM CODE	* 550B0320				* 550B0340		* 55022800		* XX005595				
	* 550B0320				* 550B0340		* 55022800		* XX005595				
UNDERGROUND INFO					PROPOSED PAY ITEM								
SHEET	UPSTREAM STRUCTURE # or (STATION)	UPSTREAM DEPTH	DOWNSTREAM STRUCTURE # or (STATION)	DOWNSTREAM DEPTH	AVERAGE DEPTH	8" PVC STORM	12" PVC COMBINATION	60" RCP IN TRENCH RELIEF	TRENCH BACKFILL CA-6, CY	TRENCH BACKFILL CA-11, CY			
22	(6147)	8.80	6152	8.80	8.8		5		6.0	0.6			
22	6152	8.80	(6236)	9.20	9.0		84		100.5	9.2			
22	(6147)	16.00	6153	16.00	16.0			6	20.3	3.5			
22	6153	16.00	(6237)	16.00	16.0			85	288.1	50.0			
22	(6236)	0.00	(6396)	0.00	0.0				0.0	0.0			
22	(6237)	0.00	(6397)	0.00	0.0				0.0	0.0			
22	(6396)	10.00	6479	8.10	9.1		83		96.6	9.1			
22	(6397)	15.80	6486	16.00	15.9			89	301.6	52.3			
22	6479	8.20	6558	6.90	7.6		80		75.1	8.8			
22	6486	16.00	(6519)	16.00	16.0			32	108.4	18.8			
22	(6519)	15.80	(7125)	16.00	15.9			11	37.3	6.5			
22	6558	6.90	(6563)	6.90	6.9		5		4.7	0.6			
22	(7125)	15.80	(7135)	16.00	15.9			10	33.9	5.9			
24	(7135)	0.00	(8250)	0.00	0.0				0.0	0.0			
25	(8250)	16.00	8257	16.00	16.0			7	23.7	4.1			
25	8257	16.00	(8271)	16.00	16.0			14	47.4	8.2			
25	(8271)	16.00	(8305)	16.00	16.0			47	159.3	27.6			
25	(8278)	5.24	(8260)	5.52	5.4	28			18.1	2.2			
25	(9124)	19.00	(9291)	19.00	19.0				711.4	237.8			
22	ACCESS AND AUGER PITTS								210.0	0.0			
TOTALS						28	257	301	2,242	445	1,275	167	160

SCHEDULE OF QUANTITIES - ROADWAY REMOVAL						
STATION	20100110	40600982	44001900	44004400	44004700	XX005314
	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT	COMBINATION CURB AND GUTTER REMOVAL (SPECIAL)	PAVEMENT REMOVAL (SPECIAL)	SIDEWALK REMOVAL (SPECIAL)	BITUMINOUS DRIVEWAY REMOVAL
	UNIT	SQ YD	FOOT	SQ YD	SQ FT	SQ YD
61+40.00 TO 66+00	0	205	335	601	0	15
71+00 TO 76+50	0	0	0	0	0	0
76+50 TO 82+50	0	0	0	0	0	0
82+50 TO 93+00	14	144	250	222	921	0
TOTAL	14	349	585	823	921	15

SCHEDULE OF QUANTITIES - BITUMINOUS PAVEMENT						
STATION	21001000	31101000	40600100	40600300	40701921	XX000405
	GEO TECHNICAL FABRIC FOR GROUND STABILIZATION	SUB-BASE GRANULAR MATERIAL, TYPE B	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 12"	BUTT JOINTS, SPECIAL
	SQ YD	TON	GALLON	TON	SQ YD	SQ YD
61+40.00 TO 66+00	644	168	252	1	560	205
71+00 TO 76+50	0	0	0	0	0	0
76+50 TO 82+50	0	0	0	0	0	0
82+50 TO 93+00	161	42	63	0	140	144
TOTAL	805	210	315	1	700	349

SCHEDULE OF QUANTITIES - SIDEWALKS AND CURBS				
STATION	42400200	60603800	60604400	XX007729
	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	DETECTABLE WARNING, SPECIAL
	SQ FT	FOOT	FOOT	SQ FT
61+40.00 TO 66+00	0	325	0	0
71+00 TO 76+50	0	0	0	0
76+50 TO 82+50	0	0	0	0
82+50 TO 93+00	893	35	195	16
TOTAL	893	360	195	16

SCHEDULE OF QUANTITIES - STRUCTURES										
PAY ITEM CODE	* 60201330				* 60218400		* 60233500		* 60500040	
	* 60201330				* 60218400		* 60233500		* 60500040	
STRUCTURE INFO					PAY ITEM					
SHEET	STR. NO.	STATION	OFFSET	BASE LINE	CB TY A TY 23 F&G	MH TY A TY 1 F&CL	PRCST "T" MH FOR 60" F&CL	MH REMOVE		
22	6152	61+52.00	10.80'L	6		1				
22	6153	61+52.00	20.00'L	6			1			
22	6479	64+79.30	8.20'L	6		1				
22	6486	64+86.00	17.70'L	6			1			
22	6489	64+89.00	4.50'R	6				1		
22	6558	65+58.00	4.50'R	6		1				
25	8257	82+57.00	4.00'L	7			1			
25	9147	91+47.00	15.00'R	8	1					
TOTALS					7	1	3	3	1	

ALLEYS AND DRIVEWAYS		
STATION	XX007357	X4420132
	CLASS C PATCHES, SPECIAL	CLASS D PATCHES, SPECIAL
	SQ YD	SQ YD
61+40.00 TO 66+00	0	15
71+00 TO 76+50	0	0
76+50 TO 82+50	0	0
82+50 TO 93+00	85	0
TOTAL	85	15

REVISIONS	
NAME	DATE

* = DENOTES SPECIALTY ITEM

PLAN SURVEYED BY DATE
 CHECKED BY DATE
 NOTE BOOK NO. FILE NAME

PROFILE SURVEYED BY DATE
 CHECKED BY DATE
 NOTE BOOK NO. STRUCTURE NOTATIONS CPFD

PAVEMENT DESIGN DATA *

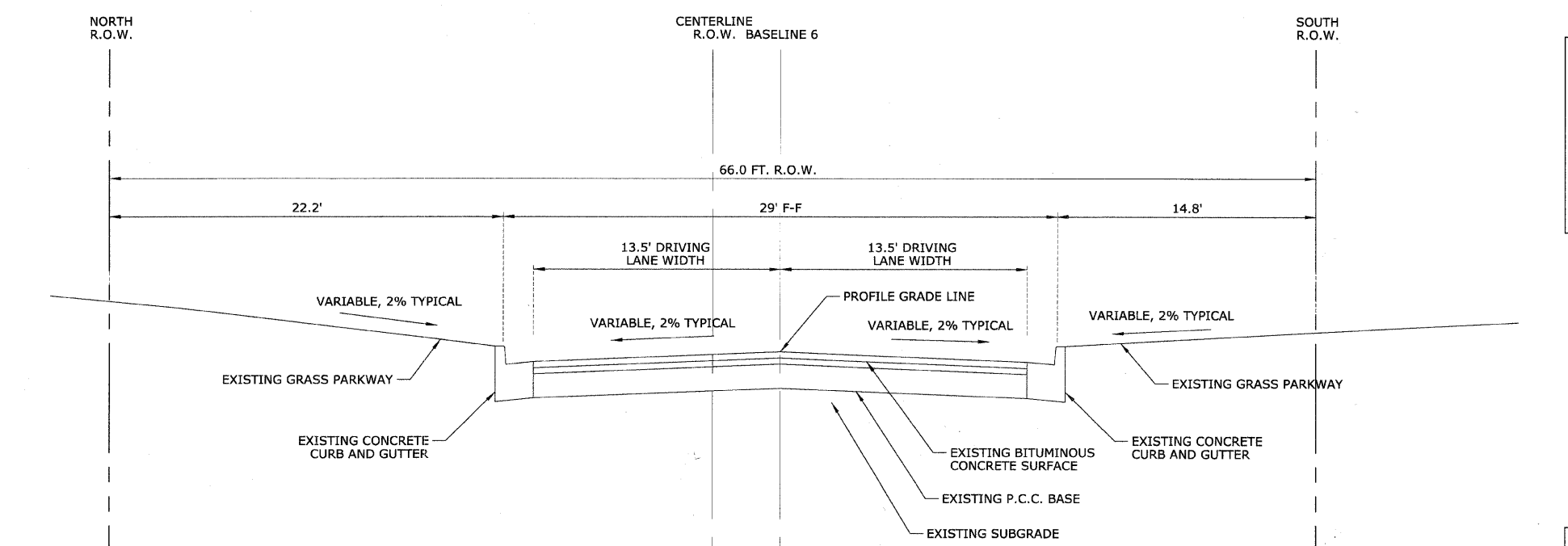
CLASSIFICATION OF ROADWAY: CLASS II ROADWAY
 DESIGN PERIOD: 20 YEARS
 PROJECTED AVERAGE DAILY TRAFFIC: 4157
 % OF PASSENGER VEHICLES (PV): 99%
 % OF SINGLE UNIT TRUCKS (SU): 0.5%
 % OF MULTI UNIT TRUCKS (MU): 0.5%
 SUBGRADE SUPPORT RATING (SSR): FAIR

* UTILIZED ADJOINING ROADWAY FOR DESIGN CHARACTERISTICS

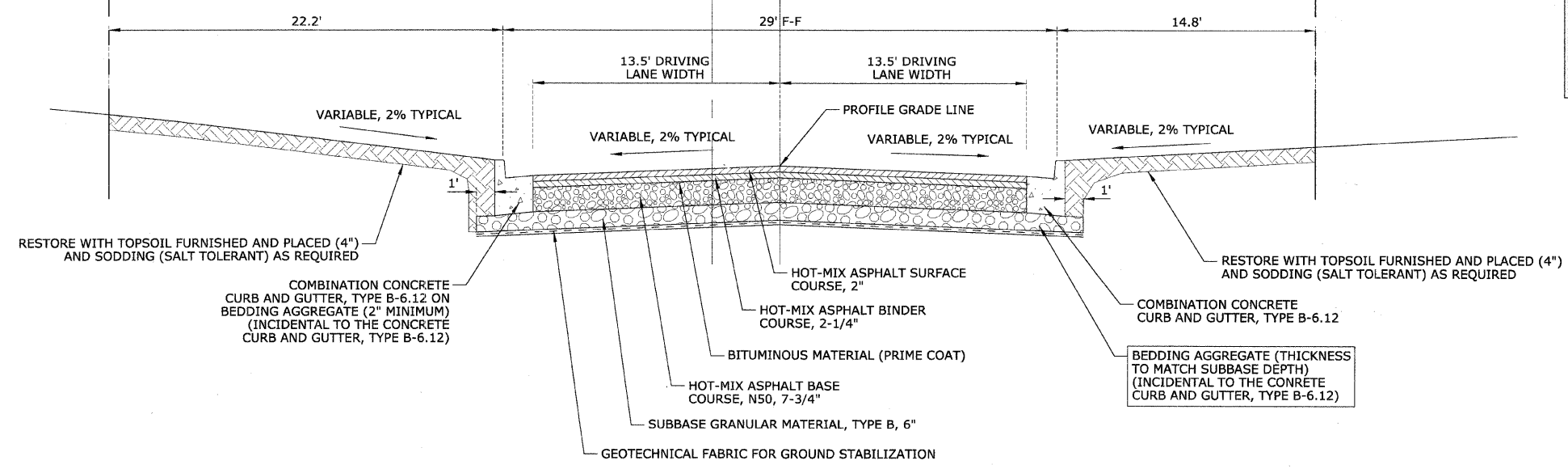
HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AC TYPE	AIR VOIDS
FULL DEPTH PAVEMENT;		
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL 9.5mm)	PG 64-22	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-9.0, N50	PG 64-22 *	4% @ 50 GYR
HOT-MIX ASPHALT BASE COURSE, (HMA BINDER IL-19mm)	PG 64-22 *	4% @ 50 GYR
PATCHING		
CLASS D PATCHES (HMA BINDER IL-19mm)	PG 64-22 *	4% @ 70 GYR

* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22
 THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN



EXISTING TYPICAL SECTION
 STA 61+50.00 - STA 62+66.66
 MAPLE AVENUE



PROPOSED TYPICAL SECTION
 STA 61+50.00 - STA 62+66.66
 MAPLE AVENUE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BLUFF AVENUE IMPROVEMENTS
STAGE 2

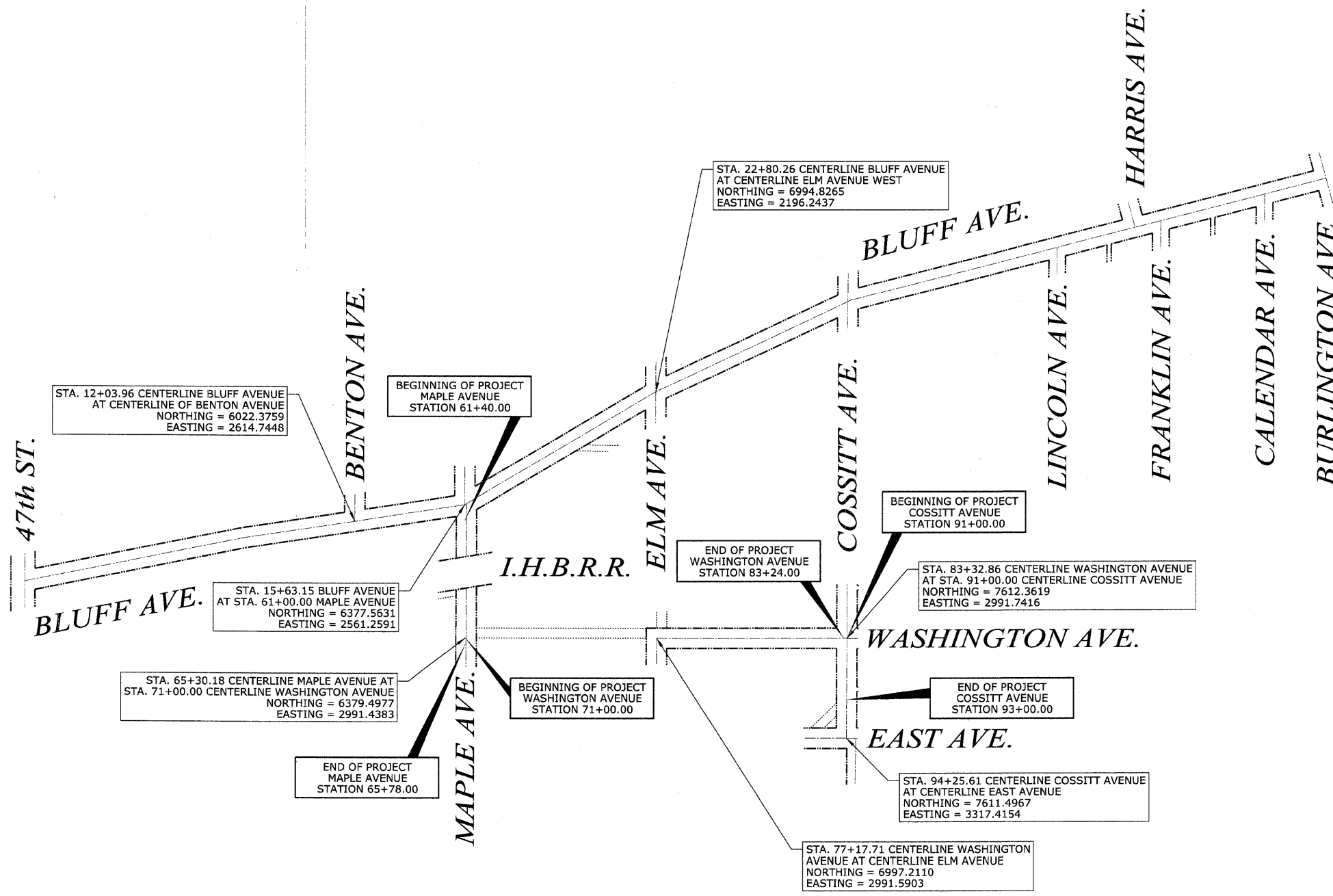
TYPICAL SECTIONS

SCALE: NTS
 DATE 02/27/2009
 DRAWN BY H&A
 CHECKED BY PFH

PLAN	DATE	BY

PROFILE	DATE	BY

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
1004	08-00079-02-FP	COOK	32	7
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



CONTROL POINTS

LABEL	NORTHING	EASTING	ELEVATION	LOCATION
7	6,353.7710	2,510.2540	632.46	SW "x" Maple and Bluff
8	6,399.7290	2,493.5990	631.92	NW "x" Maple and Bluff
9	6,973.3850	2,163.4410	632.60	SW "x" Elm and Bluff
10	7,020.3450	2,145.5900	633.09	NW "x" Elm and Bluff
11	7,595.3440	1,873.8940	632.23	SW "x" Cossitt and Bluff
12	7,634.9600	1,932.4050	629.62	NE "x" Cossitt and Bluff
21	6,361.5880	3,030.8250	628.24	SE "x" Maple cul-de-sac
22	6,409.0340	3,032.2320	627.70	NE "x" Maple cul-de-sac
23	6,964.0000	2,972.4010	628.01	SW "x" Elm and Washington
24	6,969.1030	3,013.8260	626.91	SE "x" Elm and Washington
25	7,631.9550	2,953.6290	625.58	NW "x" Cossitt and Washington
26	7,634.7650	3,034.7800	625.56	NE "x" Cossitt and Washington

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**BLUFF AVENUE IMPROVEMENTS
 STAGE 2**

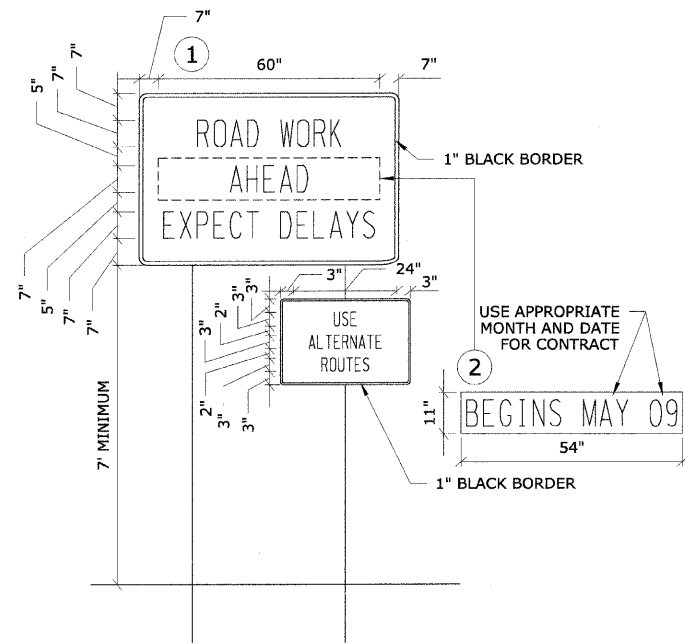
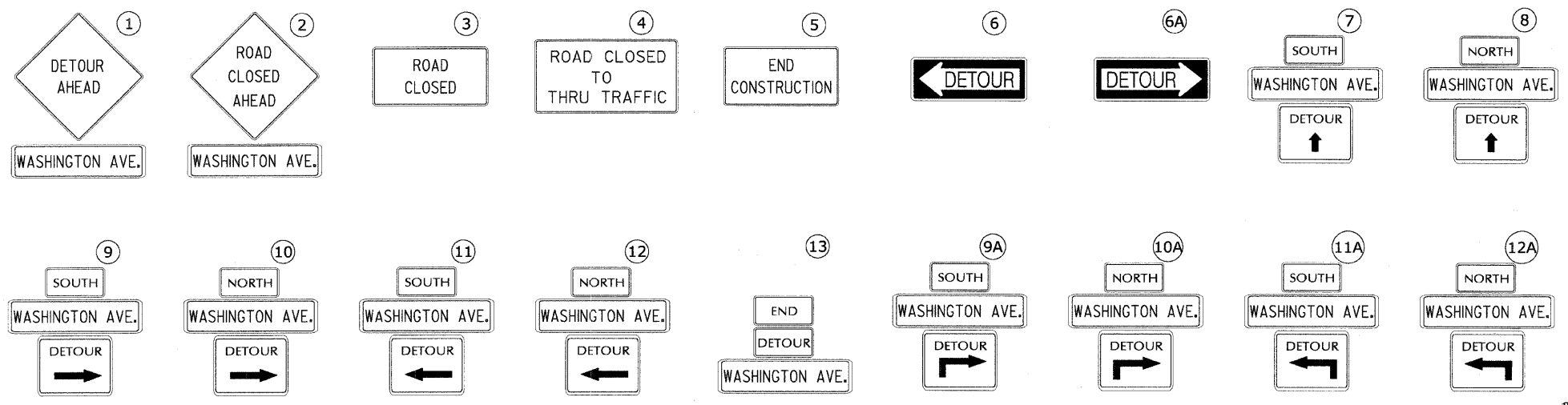
**ALIGNMENT, TIES AND
 ELEVATION CONTROL**

SCALE: NTS
 DATE 02/27/2009

DRAWN BY H&A
 CHECKED BY PFH

PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
	CHECKED	
	BY	
	DATE	

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
	CHECKED	
	BY	
	DATE	



TEMPORARY INFORMATIONAL SIGNAGE NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN 1 WITH INSTALLED PANEL 2 ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL 2 SOON AFTER THE START OF CONSTRUCTION.
5. ITEMS ON THIS PAGE SHALL BE PAID FOR UNDER ITEM 70101900 ENTITLED "TRAFFIC CONTROL AND PROTECTION DETOUR 1".

GENERAL NOTES FOR TRAFFIC CONTROL

ALL THE TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE TRAFFIC CONTROL PLANS OR THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," AND SHALL BE IN PLACE BEFORE CONSTRUCTION IS STARTED. STOP SIGNS SHALL BE PLACED TO CONTROL SIDE STREET OR ENTRANCE TRAFFIC.

THE TRAFFIC CONTROL PLANS SHALL SERVE AS A GUIDE FOR SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. HOWEVER, THE CONTRACTOR MAY IMPROVE OR MODIFY THE TRAFFIC CONTROL PLANS FOR HIS CONSTRUCTION NEEDS BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CONTRACTOR-PROPOSED TRAFFIC CONTROL PLANS SHALL BE SUBMITTED FOR THE WRITTEN APPROVAL OF THE ENGINEER.

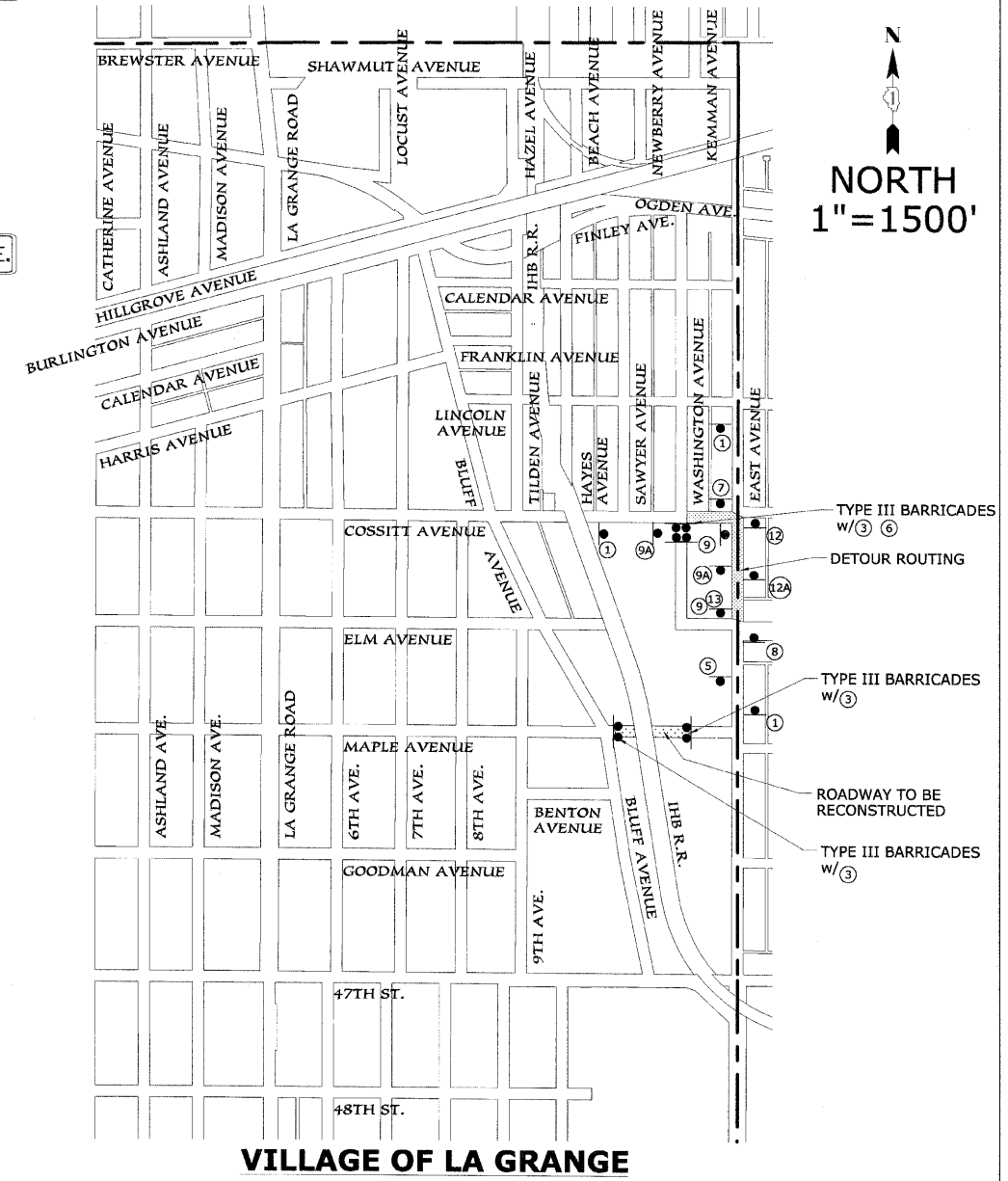
THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND TRAFFIC CONTROL DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

REMOVE EXISTING PAVEMENT MARKING IF IN CONFLICT WITH THE TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL AND PROTECTION PLANS.

ALL TYPE III BARRICADES SHALL BE REFLECTORIZED ON BOTH SIDES AND SHALL BE EQUIPPED WITH TWO (2) HIGH INTENSITY FLASHING LIGHTS.

THE CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICULAR ACCESS DURING ALL CONSTRUCTION ACTIVITIES.

THE MAINTENANCE OF TRAFFIC REQUIREMENTS CALLED FOR ON THIS PAGE SHALL BE PAID FOR UNDER LINE ITEM 70101900 ENTITLED TRAFFIC CONTROL AND PROTECTION DETOUR 1.



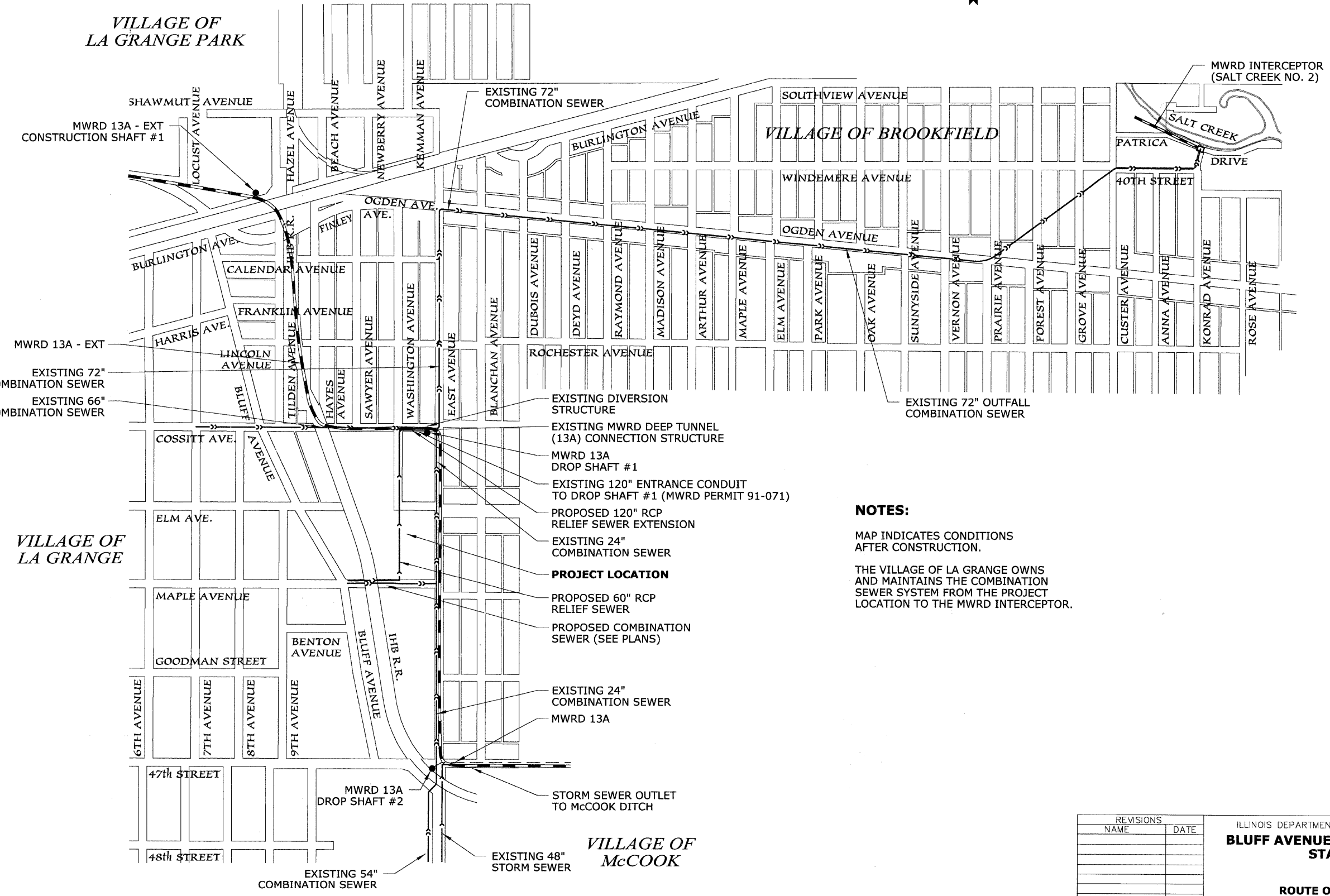
PLAN	DATE	BY
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VILLAGE OF LA GRANGE PARK

VILLAGE OF BROOKFIELD



MWRD 13A - EXT
EXISTING 72" COMBINATION SEWER
EXISTING 66" COMBINATION SEWER

EXISTING DIVERSION STRUCTURE
EXISTING MWRD DEEP TUNNEL (13A) CONNECTION STRUCTURE
MWRD 13A DROP SHAFT #1
EXISTING 120" ENTRANCE CONDUIT TO DROP SHAFT #1 (MWRD PERMIT 91-071)

NOTES:
MAP INDICATES CONDITIONS AFTER CONSTRUCTION.
THE VILLAGE OF LA GRANGE OWNS AND MAINTAINS THE COMBINATION SEWER SYSTEM FROM THE PROJECT LOCATION TO THE MWRD INTERCEPTOR.

PROJECT LOCATION
PROPOSED 120" RCP RELIEF SEWER EXTENSION
EXISTING 24" COMBINATION SEWER
PROPOSED 60" RCP RELIEF SEWER
PROPOSED COMBINATION SEWER (SEE PLANS)

EXISTING 24" COMBINATION SEWER
MWRD 13A

STORM SEWER OUTLET TO MCCOOK DITCH

EXISTING 54" COMBINATION SEWER
EXISTING 48" STORM SEWER

VILLAGE OF LA GRANGE

VILLAGE OF MCCOOK

PLAN	REVISIONS	DATE
NO.	BY	
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ILLINOIS DEPARTMENT OF TRANSPORTATION
**BLUFF AVENUE IMPROVEMENTS
STAGE 2**

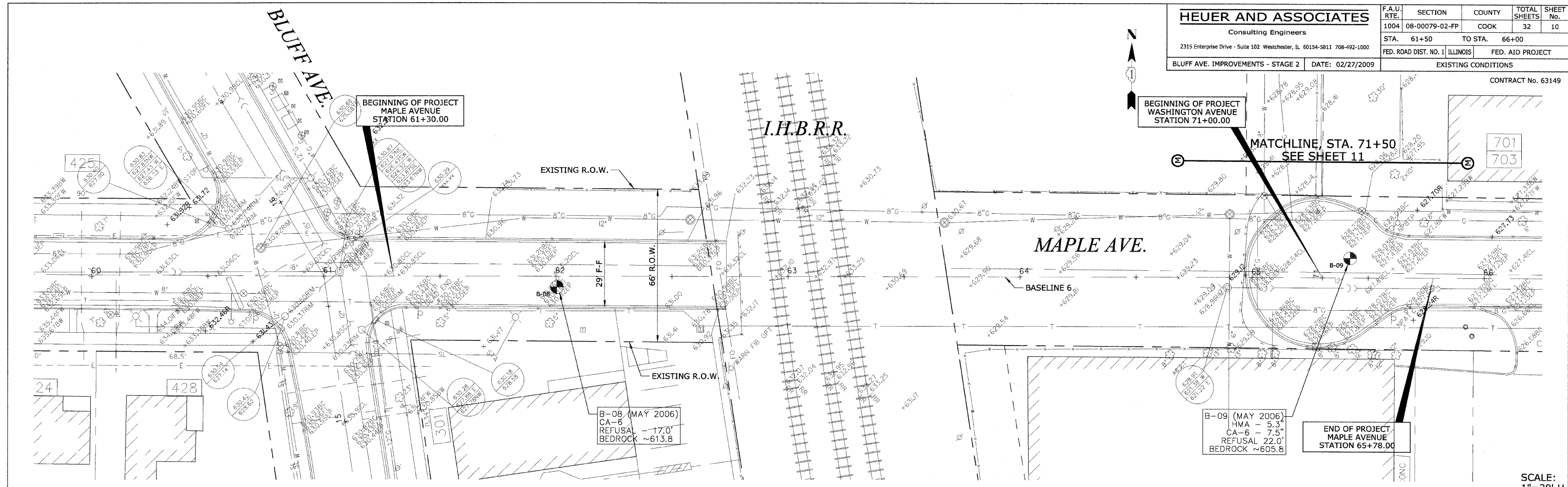
ROUTE OUTLET MAP

SCALE: NTS
DATE 02/27/2009

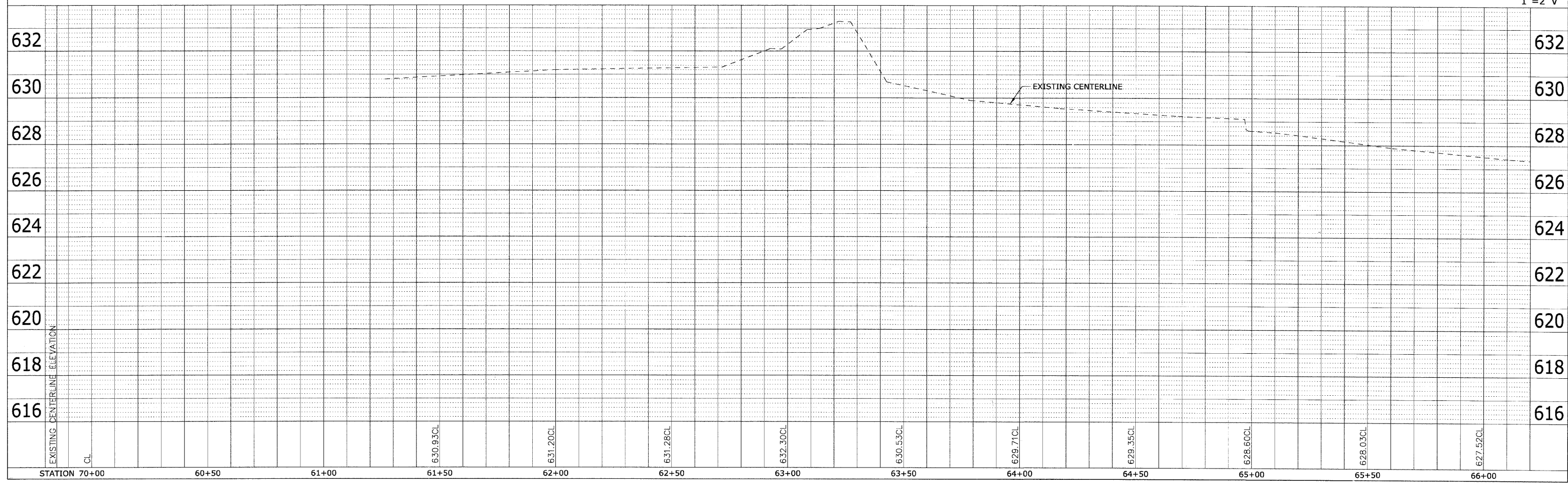
DRAWN BY H&A
CHECKED BY PFH

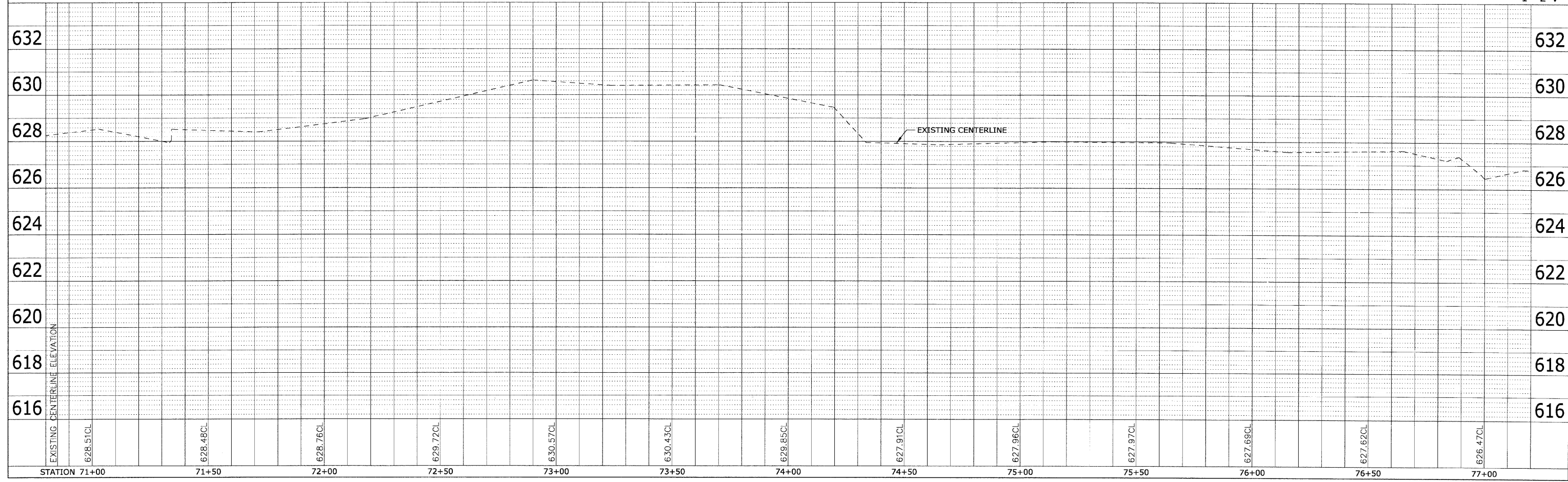
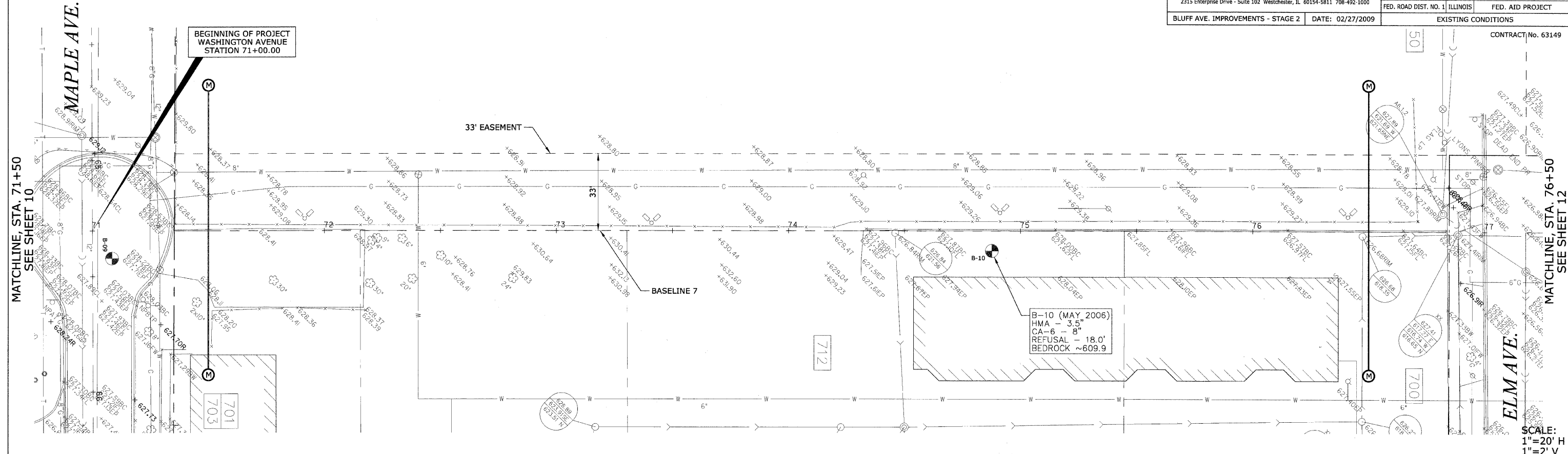
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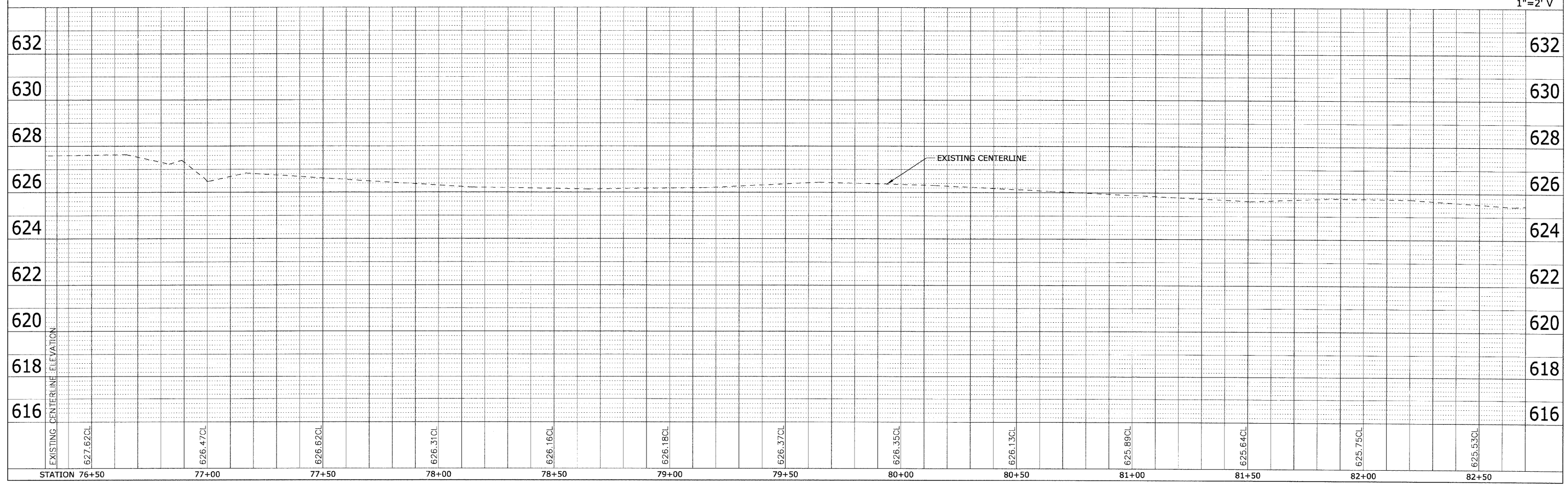
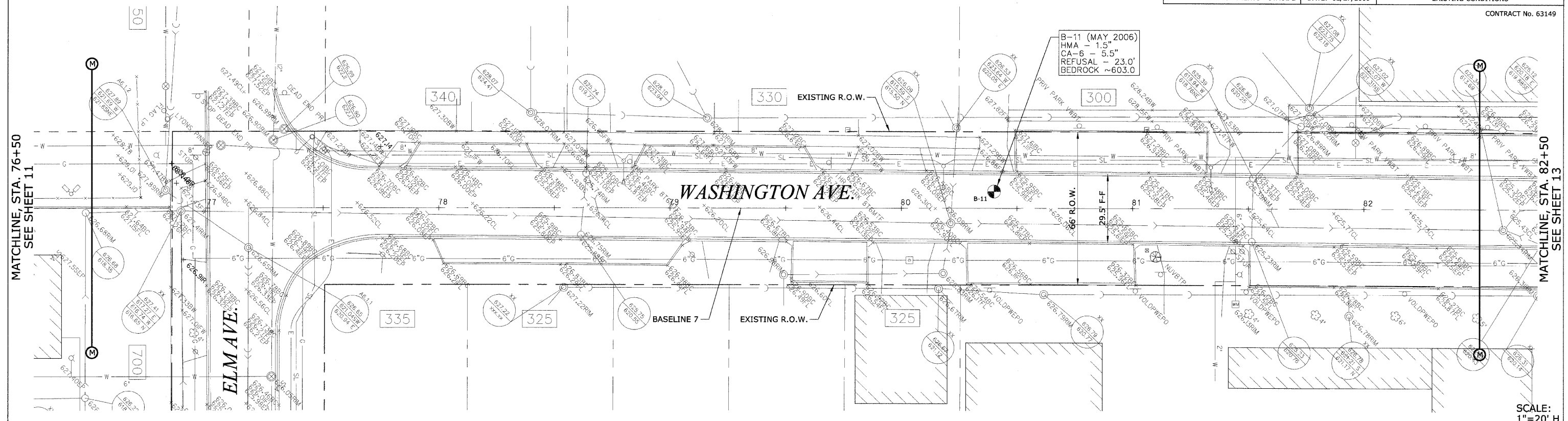
SCALE:
1"=20' H
1"=2' V





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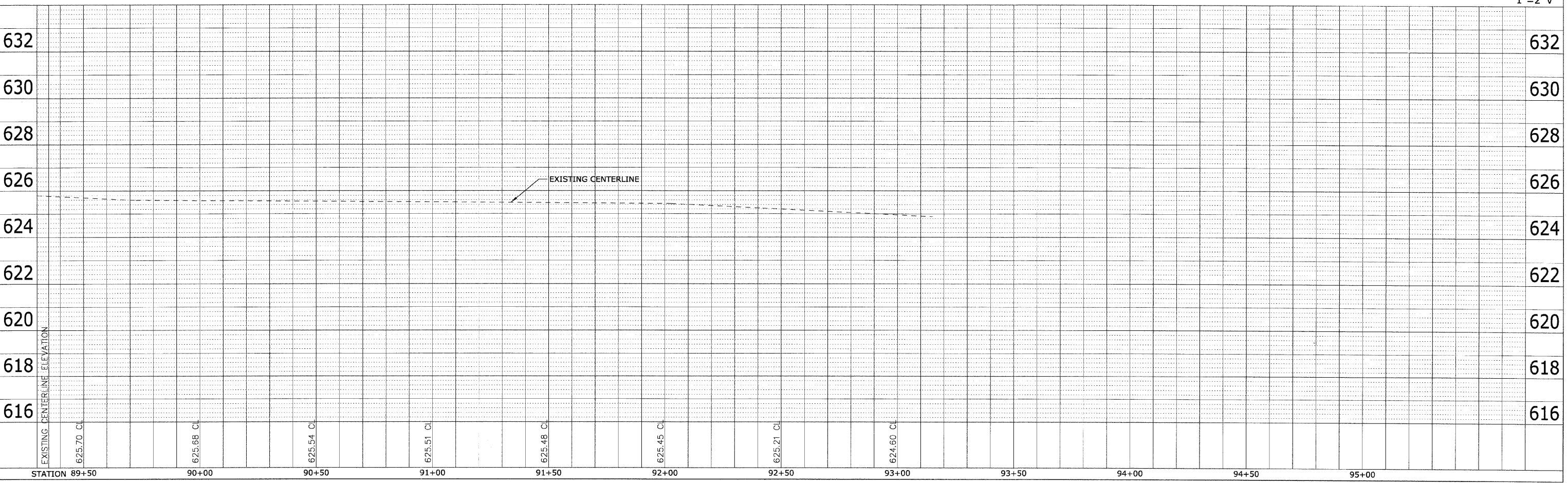
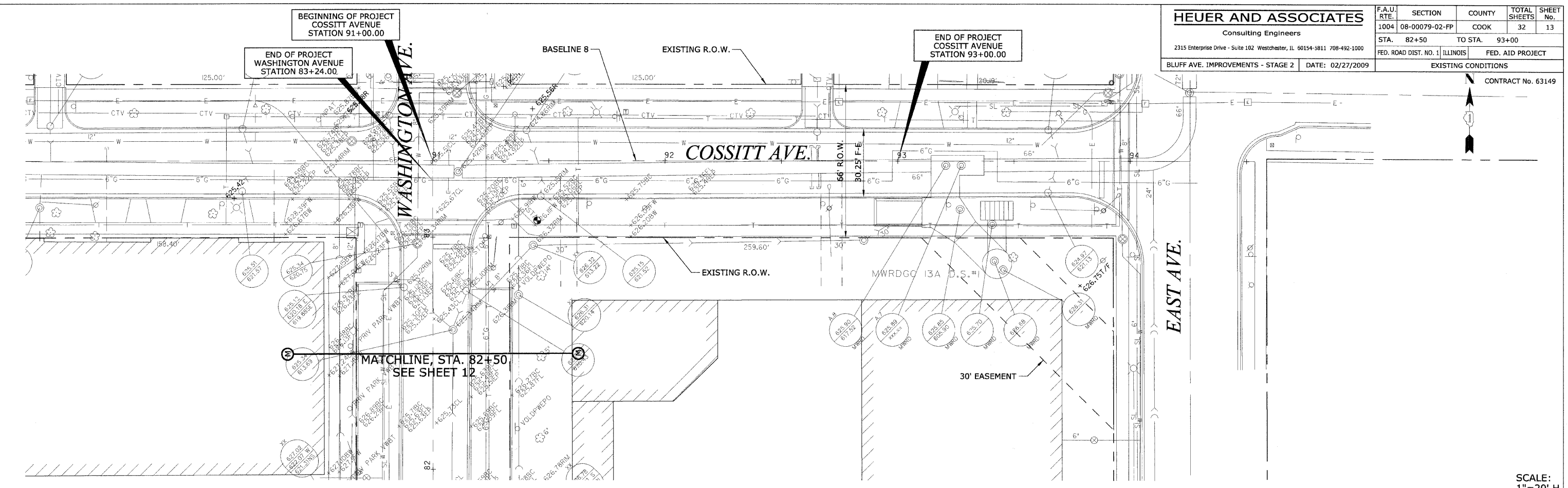


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 ALIGNED CHECKED BY: _____
 NOTE BOOK NO. _____
 CAD FILE NAME: _____

PROFILE
 SUBMITTED BY: _____ DATE: _____
 GRADES CHECKED BY: _____
 STRUCTURE NOTATIONS CHECKED BY: _____
 NOTE BOOK NO. _____

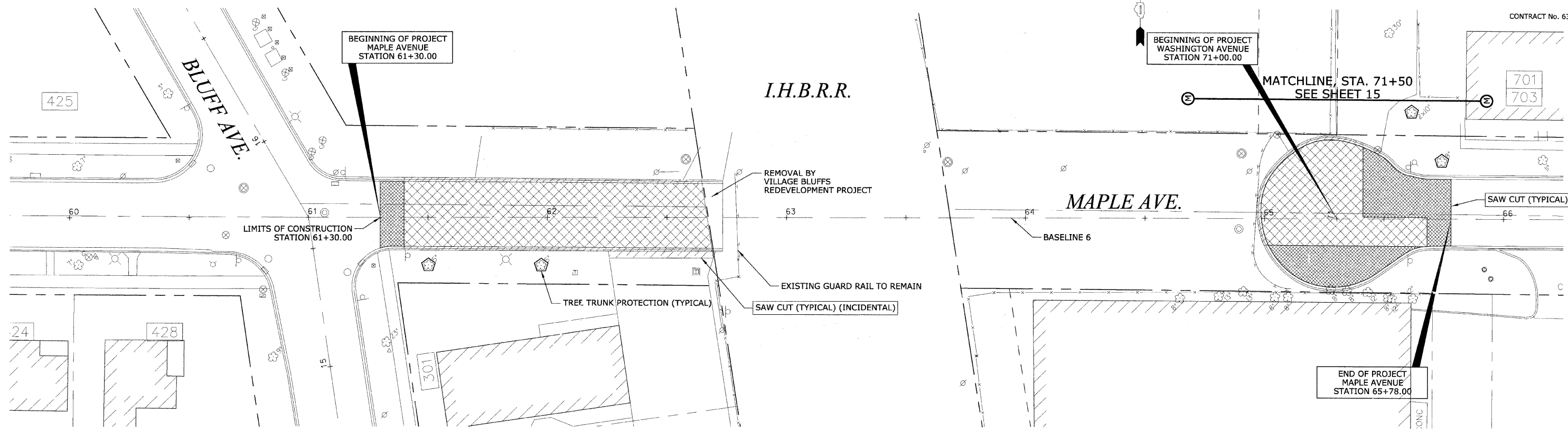
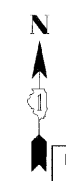
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SCALE:
 1"=20' H
 1"=2' V

CONTRACT No. 63149



PLAN	DESIGNED	BY	DATE
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	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		

PROFILE	DESIGNED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		

REMOVAL LEGEND	
	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
	PAVEMENT REMOVAL AND EXCAVATION
	SIDEWALK REMOVAL AND EXCAVATION
	CURB REMOVAL AND EXCAVATION
	HOT MIX ASPHALT DRIVEWAY REMOVAL AND EXCAVATION
	P.C.C. DRIVEWAY REMOVAL AND EXCAVATION
	EARTH EXCAVATION
	TREE REMOVAL

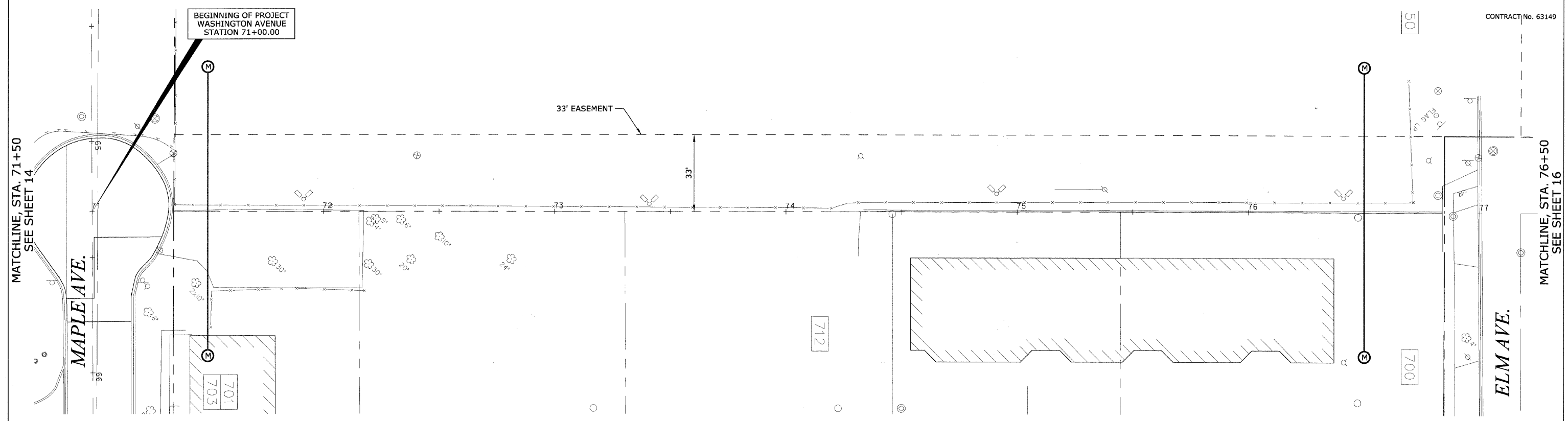
EROSION CONTROL LEGEND	
	INLET FILTER
	TREE TRUNK PROTECTION

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**BLUFF AVENUE IMPROVEMENTS
 STAGE 2**
REMOVAL AND EROSION CONTROL PLAN
 SCALE: 1" = 20' H (Full Size)
 1" = 44' H (Tabloid)
 DATE 02/27/2009
 DRAWN BY H&A
 CHECKED BY PFF



CONTRACT No. 63149



PROFILE	DATE
NO.	
BY	
CHECKED	
DATE	

REMOVAL LEGEND	
	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
	PAVEMENT REMOVAL AND EXCAVATION
	SIDEWALK REMOVAL AND EXCAVATION
	CURB REMOVAL AND EXCAVATION
	HOT MIX ASPHALT DRIVEWAY REMOVAL AND EXCAVATION
	P.C.C. DRIVEWAY REMOVAL AND EXCAVATION
	EARTH EXCAVATION
	TREE REMOVAL

EROSION CONTROL LEGEND	
	INLET FILTER
	TREE TRUNK PROTECTION

NOTE:
 1. NO SCHEDULED REMOVAL WORK FOR THIS SECTION OF BLUFF AVENUE IMPROVEMENT PROJECT; THIS SHEET IS INCLUDED FOR CONTINUITY ONLY.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**BLUFF AVENUE IMPROVEMENTS
 STAGE 2**

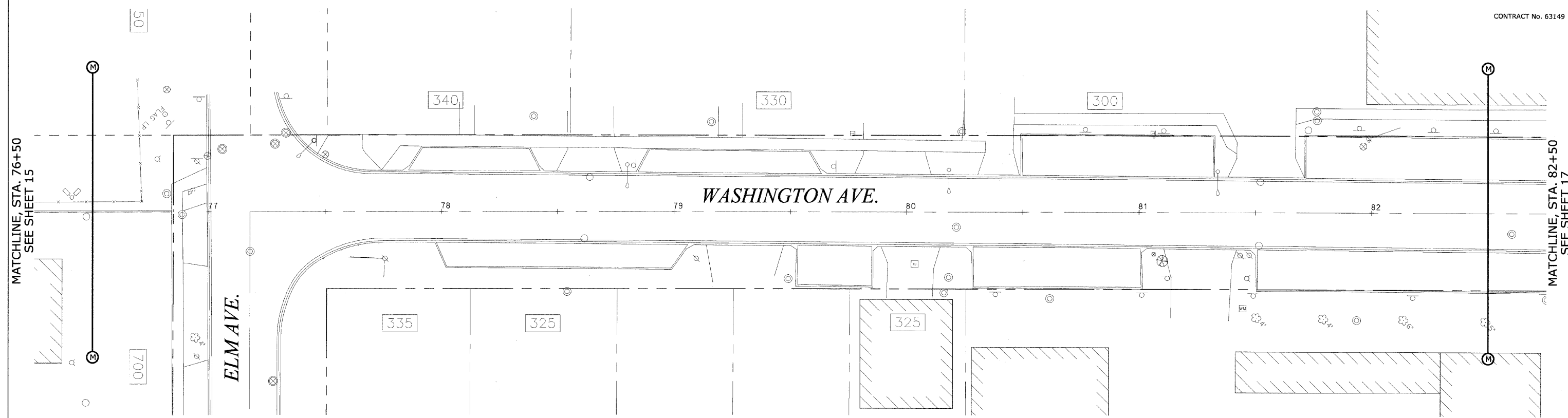
REMOVAL AND EROSION CONTROL PLAN

SCALE: 1" = 20' H (Full Size)
 1/4" = 44' H (Tabloid)

DATE 02/27/2009

DRAWN BY H&A
 CHECKED BY PFH

CONTRACT No. 63149



PLAN

DESIGNED	BY	DATE
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PROFILE

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REMOVAL LEGEND

- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
- PAVEMENT REMOVAL AND EXCAVATION
- SIDEWALK REMOVAL AND EXCAVATION
- CURB REMOVAL AND EXCAVATION
- HOT MIX ASPHALT DRIVEWAY REMOVAL AND EXCAVATION
- P.C.C. DRIVEWAY REMOVAL AND EXCAVATION
- EARTH EXCAVATION
- TREE REMOVAL

EROSION CONTROL LEGEND

- INLET FILTER
- TREE TRUNK PROTECTION

NOTE:
 1. NO SCHEDULED REMOVAL WORK FOR THIS SECTION OF BLUFF AVENUE IMPROVEMENT PROJECT; THIS SHEET IS INCLUDED FOR CONTINUITY ONLY.

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**BLUFF AVENUE IMPROVEMENTS
 STAGE 2**

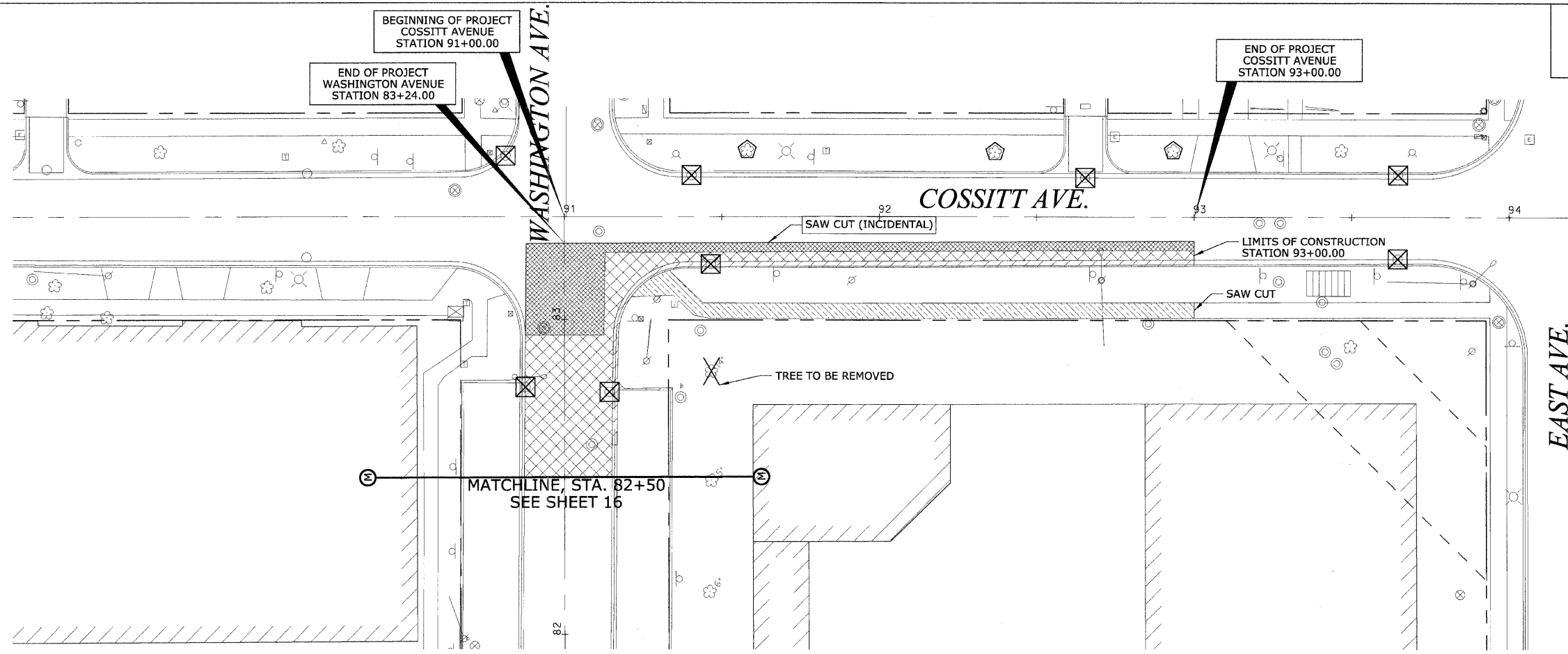
REMOVAL AND EROSION CONTROL PLAN

SCALE: 1" = 20' H (Full Size)
 1" = 44' H (Tabloid)

DATE 02/27/2009

DRAWN BY H&A
 CHECKED BY PFH

CONTRACT No. 63149



PLAN	DATE	BY
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PROFILE	DATE	BY
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REMOVAL LEGEND

- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT
- PAVEMENT REMOVAL AND EXCAVATION
- SIDEWALK REMOVAL AND EXCAVATION
- CURB REMOVAL AND EXCAVATION
- HOT MIX ASPHALT DRIVEWAY REMOVAL AND EXCAVATION
- P.C.C. DRIVEWAY REMOVAL AND EXCAVATION
- EARTH EXCAVATION
- TREE REMOVAL

EROSION CONTROL LEGEND

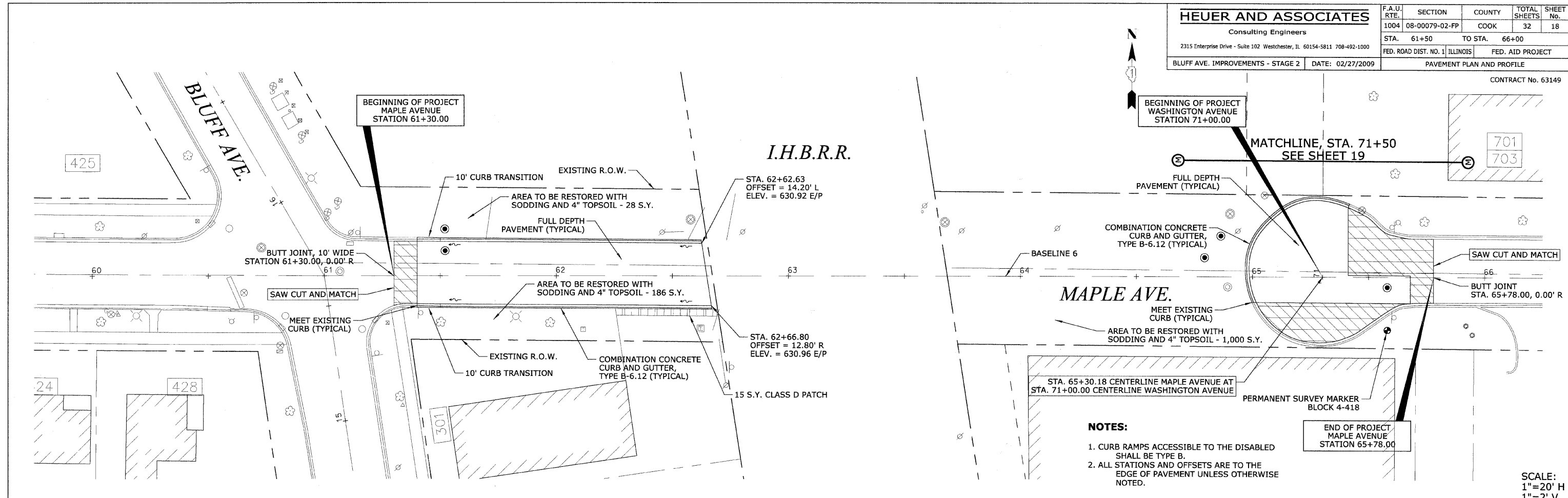
- INLET FILTER
- TREE TRUNK PROTECTION

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**BLUFF AVENUE IMPROVEMENTS
 STAGE 2**
REMOVAL AND EROSION CONTROL PLAN
 SCALE: 1" = 20' H (Full Size)
 1/4" = 44' H (Tabloid)
 DATE 02/27/2009
 DRAWN BY H&A
 CHECKED BY PFH

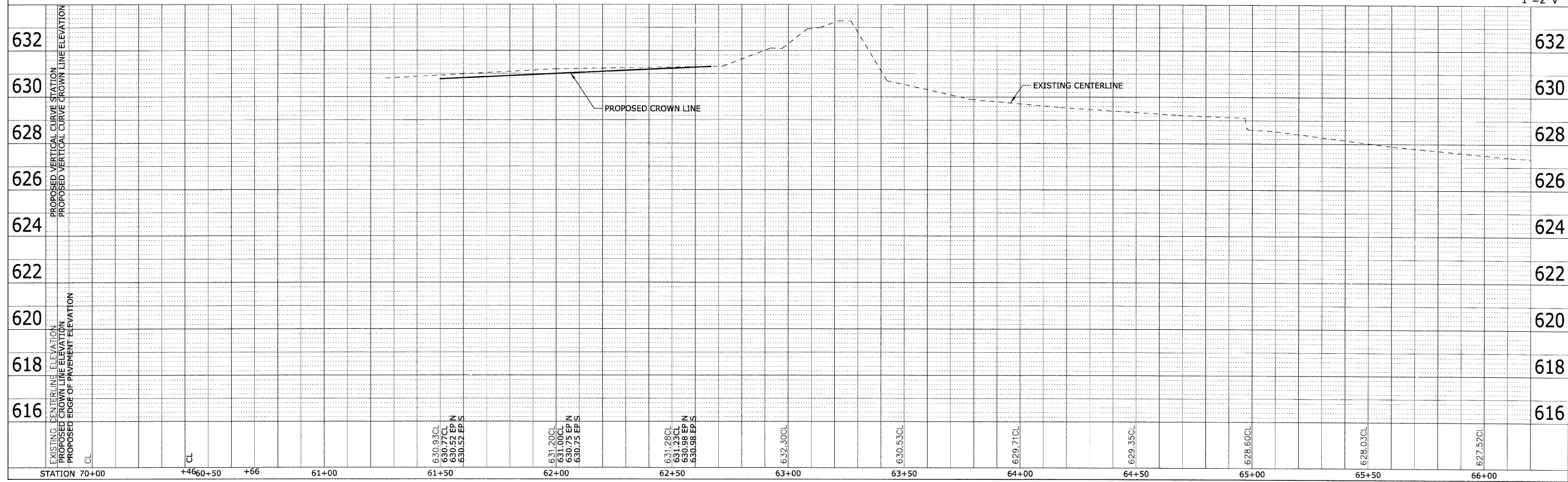
PLAN	DESIGNED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	NO. _____	
	NOTE BOOK	
	CADD FILE NAME	
	NO. _____	

PROFILE	DESIGNED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATIONS	
	CHFD	
	NO. _____	



- NOTES:**
- CURB RAMPS ACCESSIBLE TO THE DISABLED SHALL BE TYPE B.
 - ALL STATIONS AND OFFSETS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

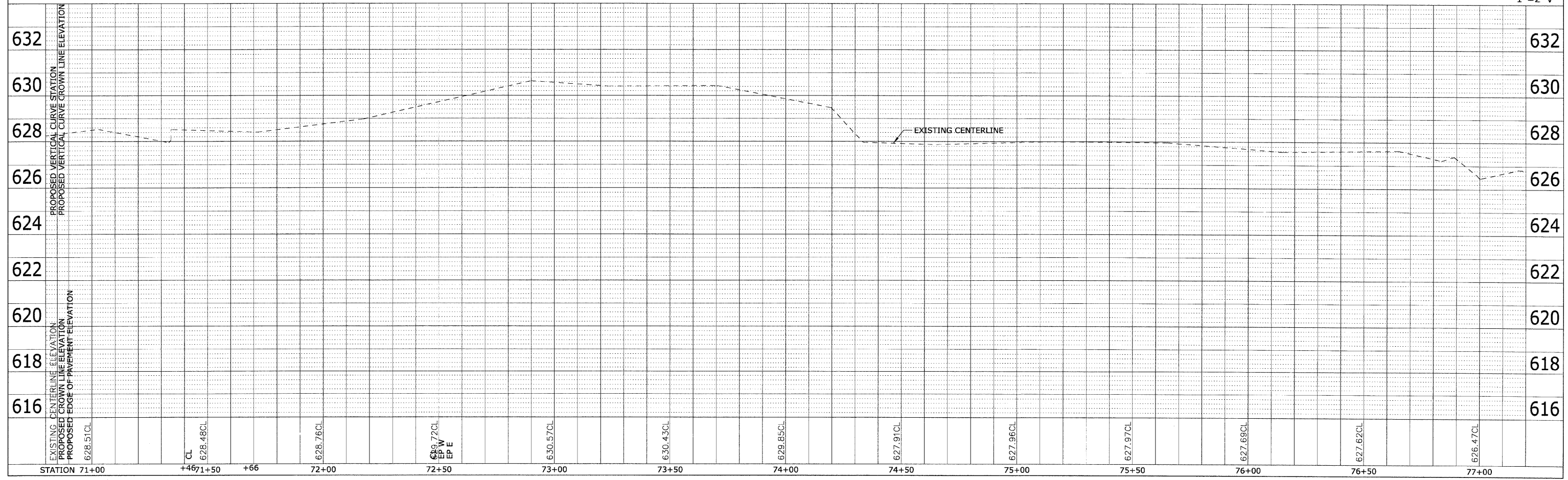
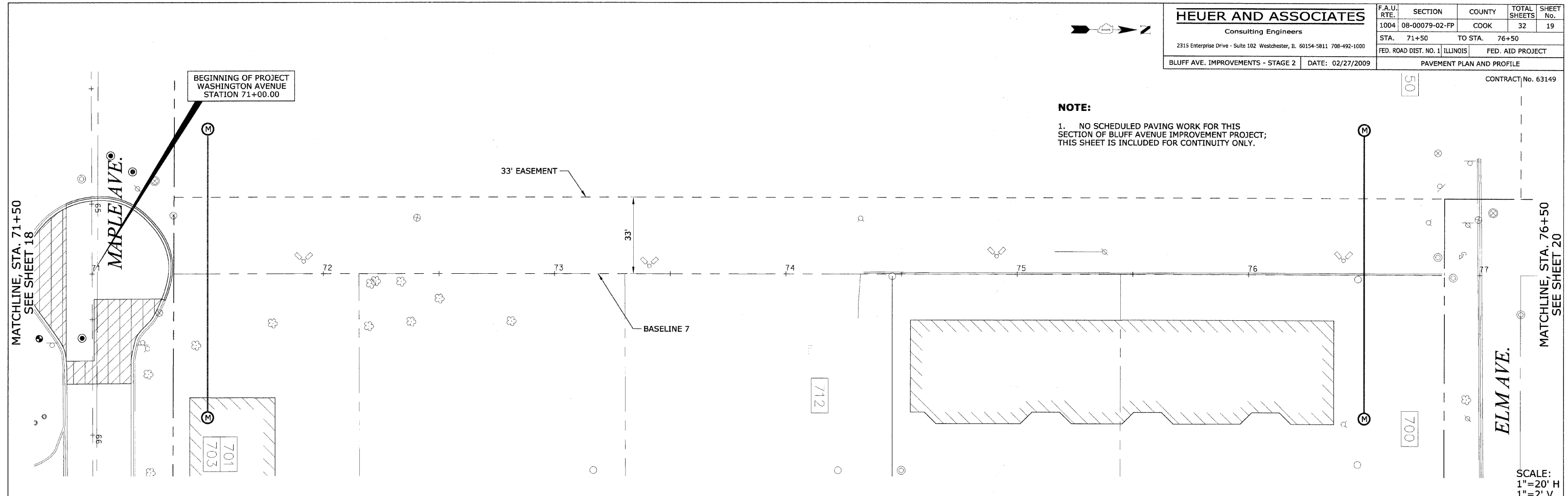
SCALE:
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1"=2' V



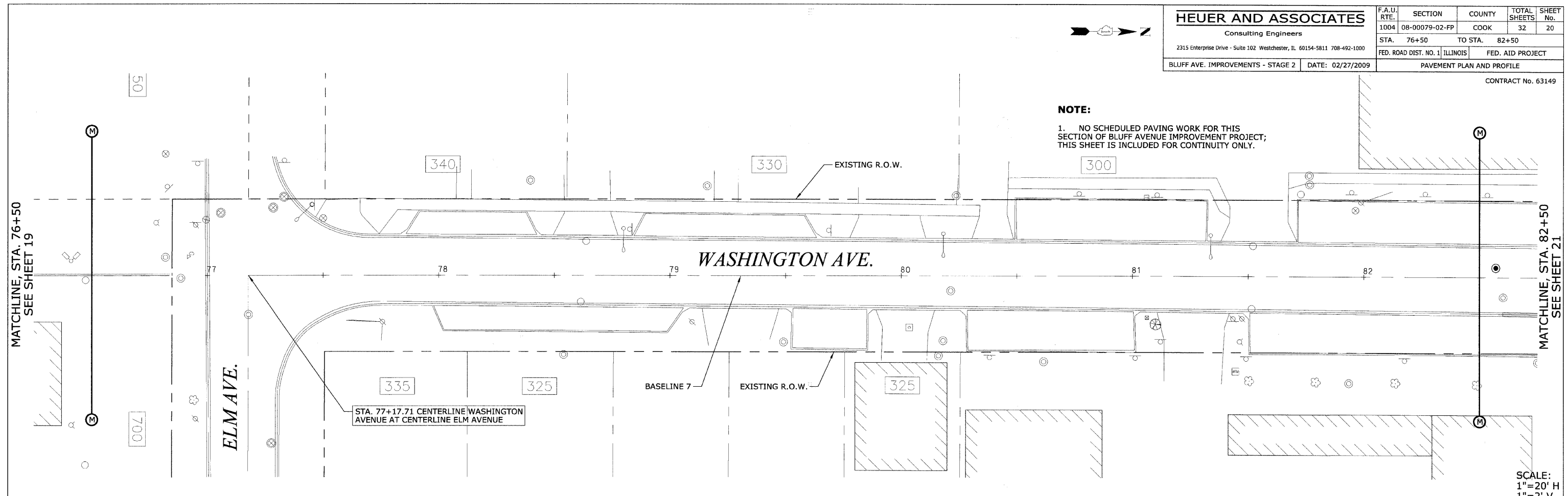
NOTE:
 1. NO SCHEDULED PAVING WORK FOR THIS SECTION OF BLUFF AVENUE IMPROVEMENT PROJECT; THIS SHEET IS INCLUDED FOR CONTINUITY ONLY.

PLAN	DESIGNED BY	DATE
	REVISIONS	
	ALIGNED	
	CHECKED	
	NO. _____	
	DATE _____	

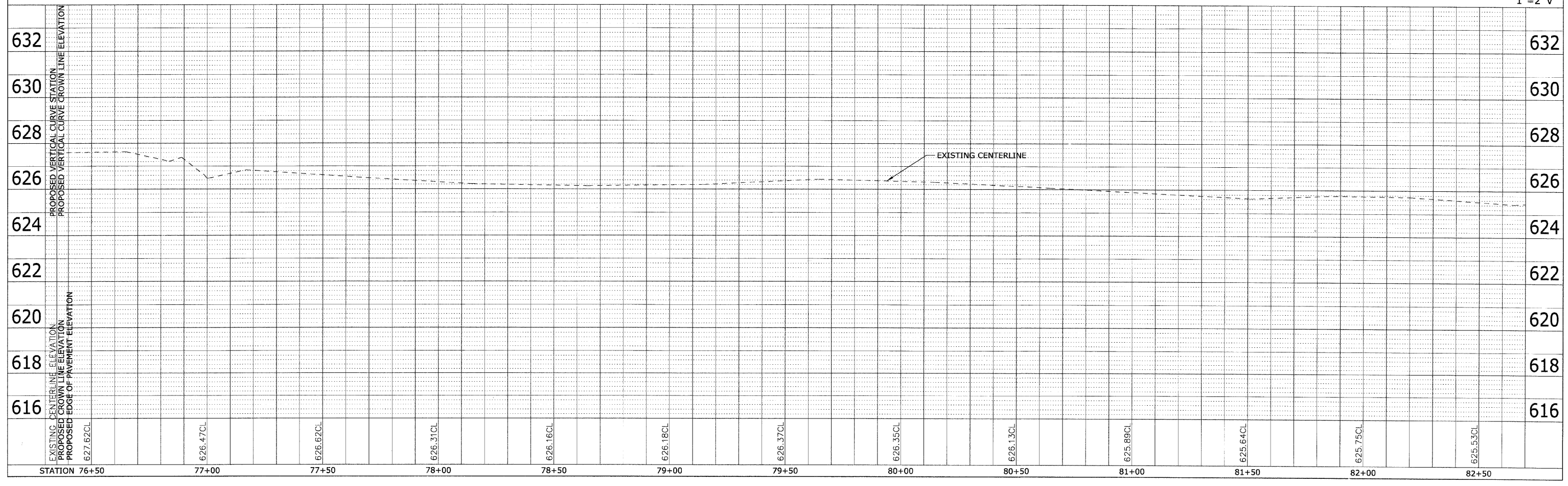
PROFILE	DESIGNED BY	DATE
	REVISIONS	
	GRADES CHECKED	
	PLOTTED	
	NO. _____	
	DATE _____	



NOTE:
 1. NO SCHEDULED PAVING WORK FOR THIS SECTION OF BLUFF AVENUE IMPROVEMENT PROJECT; THIS SHEET IS INCLUDED FOR CONTINUITY ONLY.



SCALE:
 1"=20' H
 1"=2' V

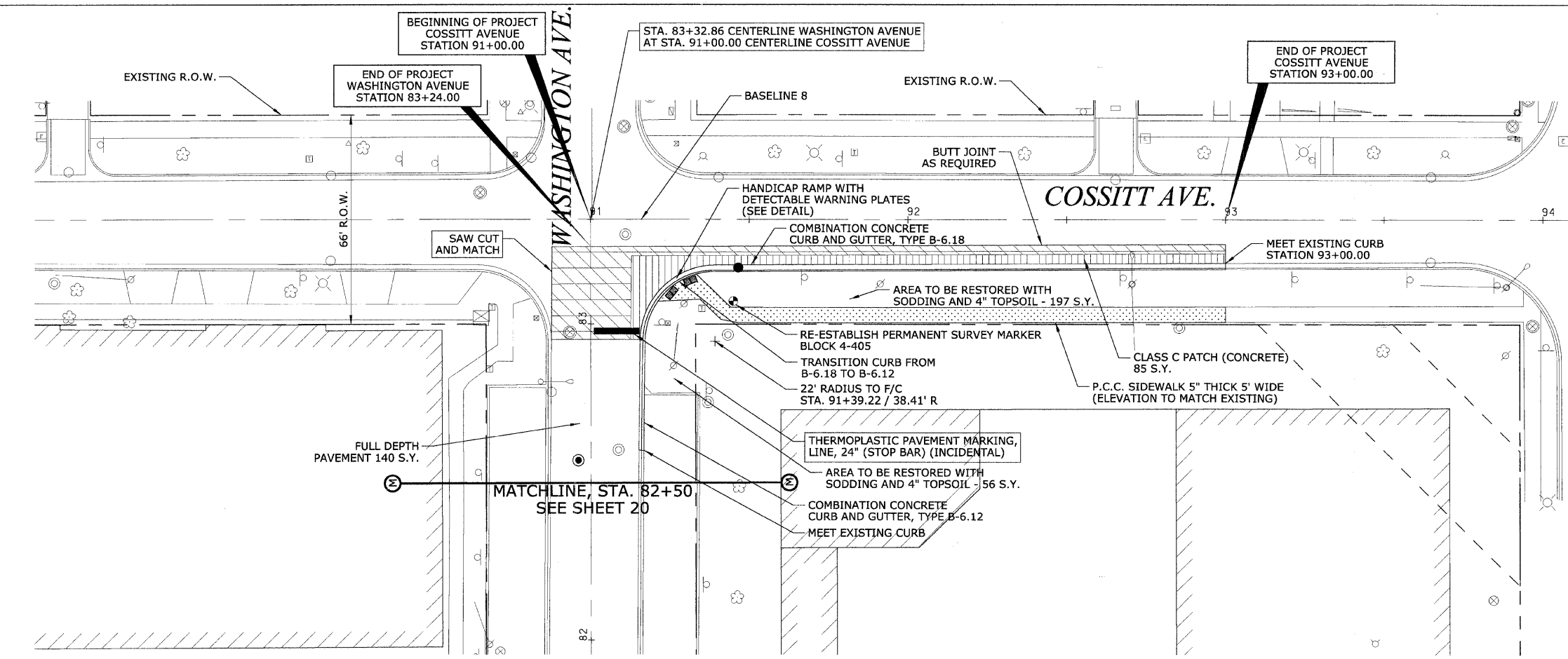


PLAN	DESIGNED	BY	DATE
	CHECKED		
	NOTED		
	ADD FILE NAME		

PROFILE	DESIGNED	BY	DATE
	CHECKED		
	NOTED		
	ADD FILE NAME		

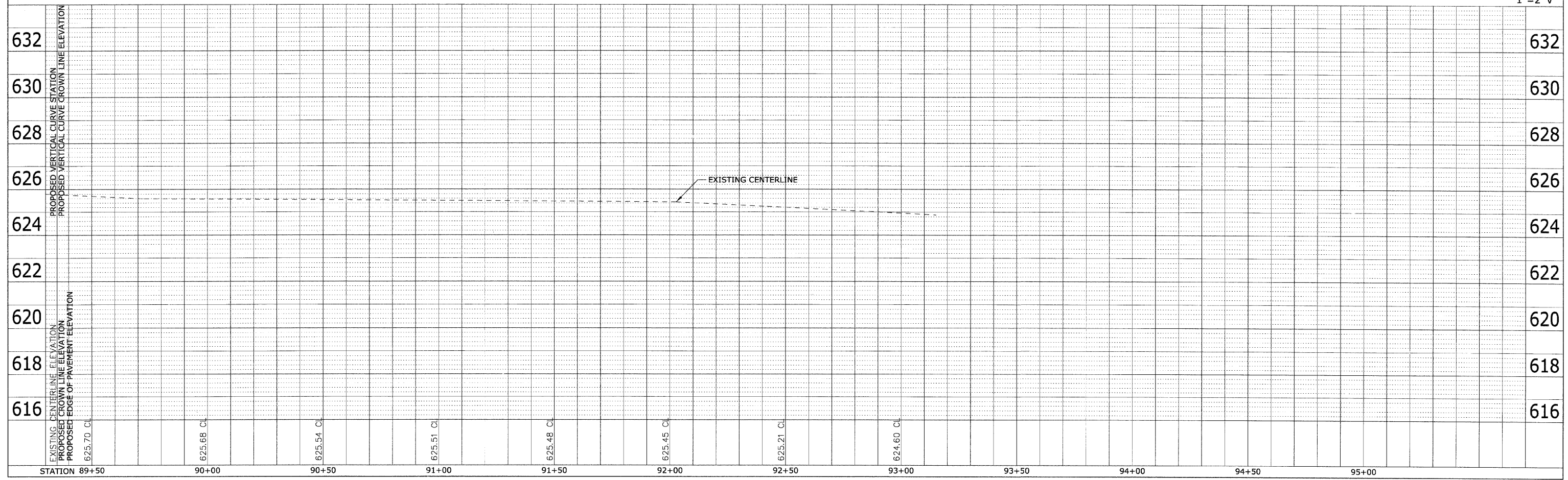
PLAN	DATE	BY
DESIGNED		
PLOTTED		
ALIGNED		
CHECKED		
NOTE BOOK NO.		
ADD FILE NAME		

PROFILE	DATE	BY
DESIGNED		
PLOTTED		
ALIGNED		
CHECKED		
NOTE BOOK NO.		
ADD FILE NAME		



- NOTES:**
1. CURB RAMPS ACCESSIBLE TO THE DISABLED SHALL BE TYPE B.
 2. ALL STATIONS AND OFFSETS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

SCALE:
1"=20' H
1"=2' V

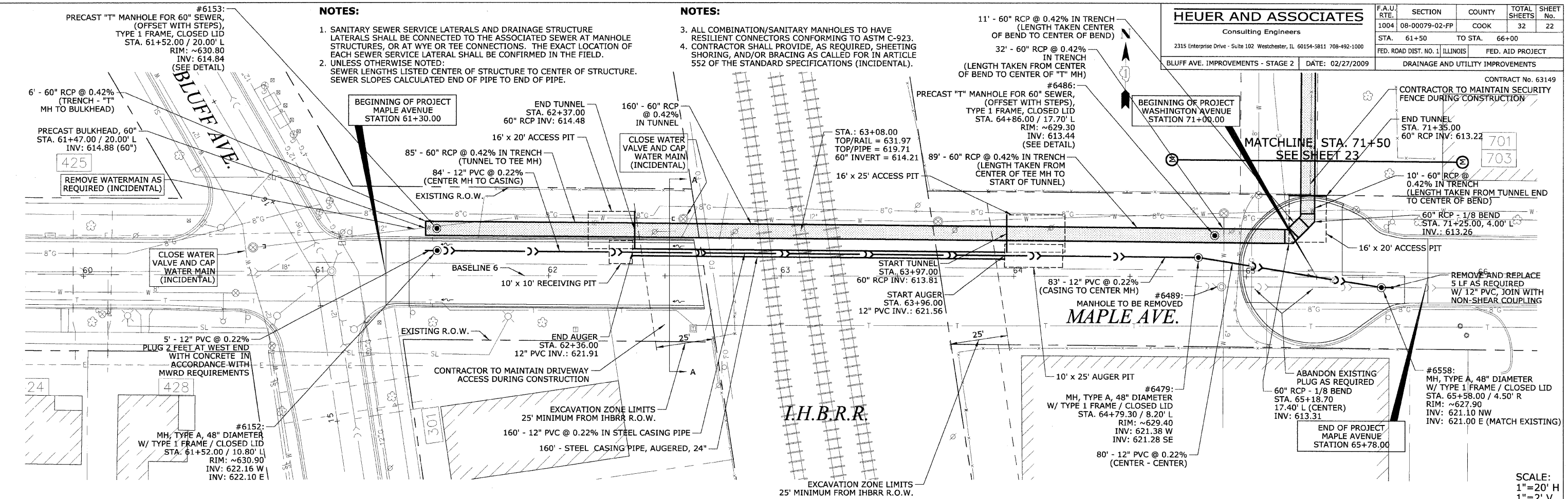


NOTES:

- SANITARY SEWER SERVICE LATERALS AND DRAINAGE STRUCTURE LATERALS SHALL BE CONNECTED TO THE ASSOCIATED SEWER AT MANHOLE STRUCTURES, OR AT WYE OR TEE CONNECTIONS. THE EXACT LOCATION OF EACH SEWER SERVICE LATERAL SHALL BE CONFIRMED IN THE FIELD.
- UNLESS OTHERWISE NOTED: SEWER LENGTHS LISTED CENTER OF STRUCTURE TO CENTER OF STRUCTURE. SEWER SLOPES CALCULATED END OF PIPE TO END OF PIPE.

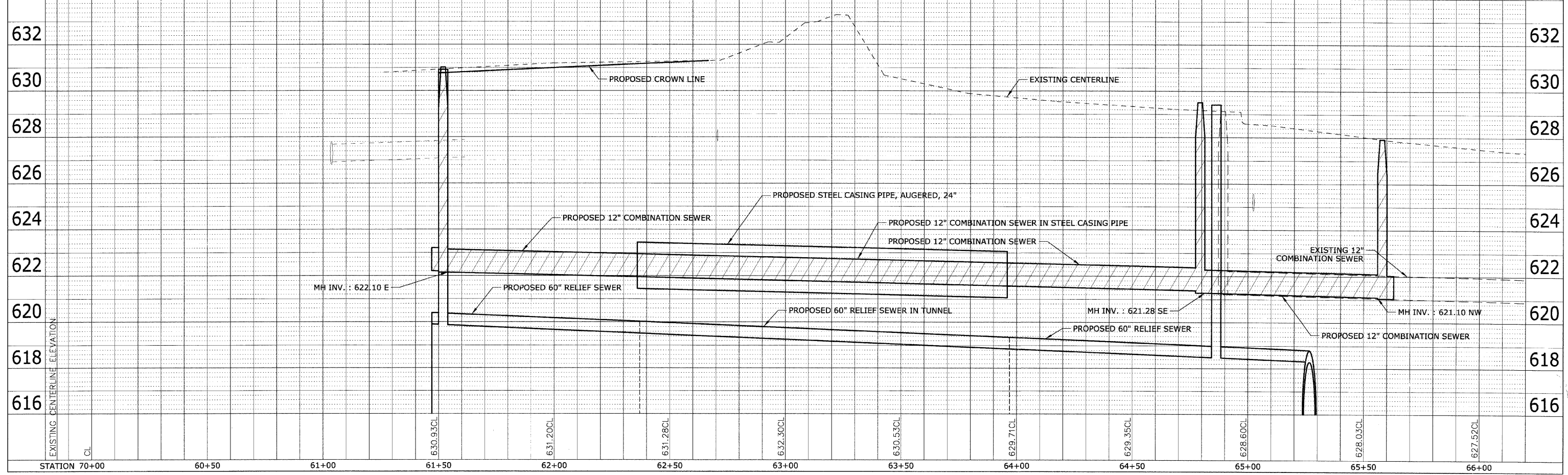
NOTES:

- ALL COMBINATION/SANITARY MANHOLES TO HAVE RESILIENT CONNECTORS CONFORMING TO ASTM C-923.
- CONTRACTOR SHALL PROVIDE, AS REQUIRED, SHEETING SHORING, AND/OR BRACING AS CALLED FOR IN ARTICLE 552 OF THE STANDARD SPECIFICATIONS (INCIDENTAL).



DATE	BY	REVISION

DATE	BY	REVISION



SCALE:
 1" = 20' H
 1" = 2' V

NOTES:

- SANITARY SEWER SERVICE LATERALS AND DRAINAGE STRUCTURE LATERALS SHALL BE CONNECTED TO THE ASSOCIATED SEWER AT MANHOLE STRUCTURES, OR AT WYE OR TEE CONNECTIONS. THE EXACT LOCATION OF EACH SEWER SERVICE LATERAL SHALL BE CONFIRMED IN THE FIELD.
- UNLESS OTHERWISE NOTED: SEWER LENGTHS LISTED CENTER OF STRUCTURE TO CENTER OF STRUCTURE. SEWER SLOPES CALCULATED END OF PIPE TO END OF PIPE.

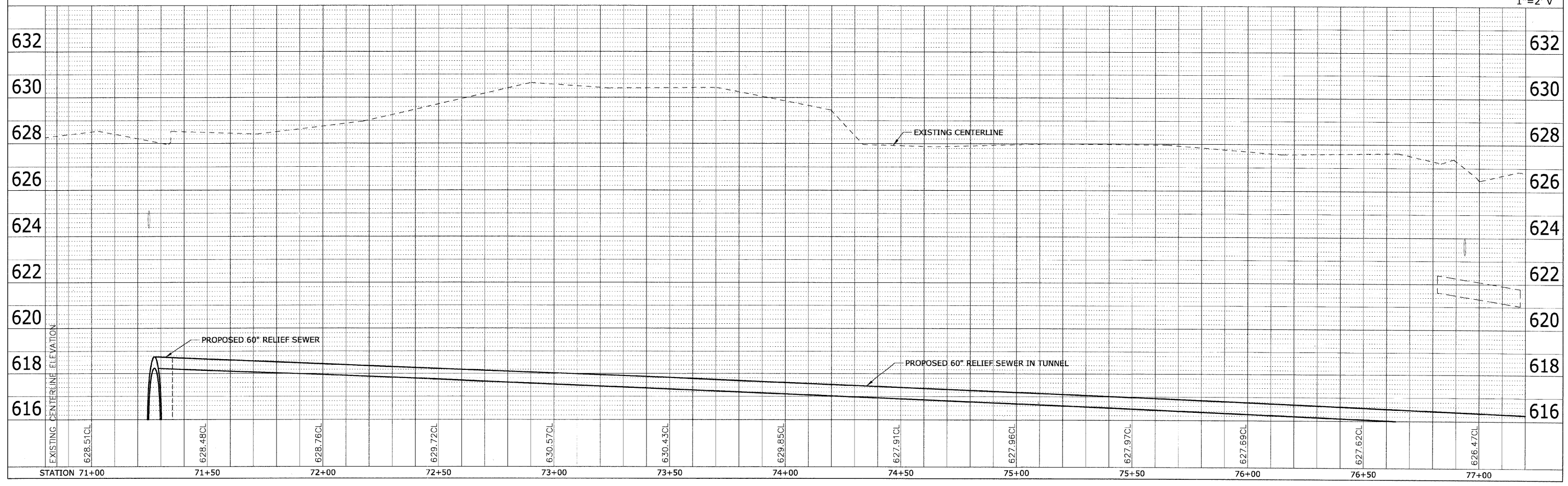
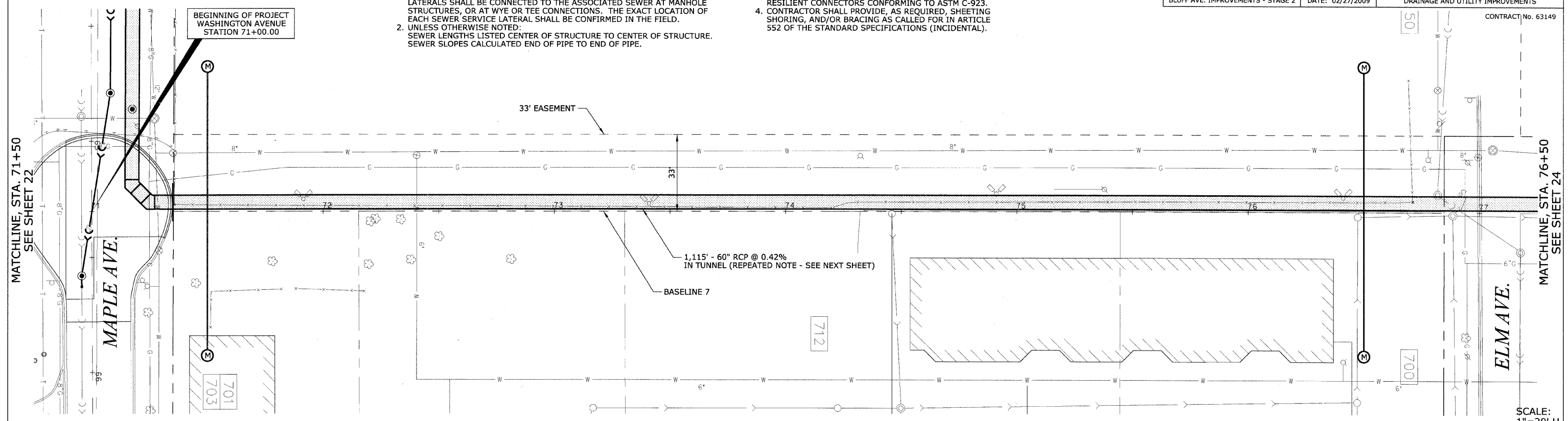
NOTES:

- ALL COMBINATION/SANITARY MANHOLES TO HAVE RESILIENT CONNECTORS CONFORMING TO ASTM C-923.
- CONTRACTOR SHALL PROVIDE, AS REQUIRED, SHEETING SHORING, AND/OR BRACING AS CALLED FOR IN ARTICLE 552 OF THE STANDARD SPECIFICATIONS (INCIDENTAL).



PLAN	DESIGNED	DATE
NOTED	BY	
CHECKED		
DATE		

PROFILE	DESIGNED	DATE
NOTED	BY	
CHECKED		
DATE		



NOTES:

1. SANITARY SEWER SERVICE LATERALS AND DRAINAGE STRUCTURE LATERALS SHALL BE CONNECTED TO THE ASSOCIATED SEWER AT MANHOLE STRUCTURES, OR AT WYE OR TEE CONNECTIONS. THE EXACT LOCATION OF EACH SEWER SERVICE LATERAL SHALL BE CONFIRMED IN THE FIELD.
2. UNLESS OTHERWISE NOTED:
SEWER LENGTHS LISTED CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
SEWER SLOPES CALCULATED END OF PIPE TO END OF PIPE.

NOTES:

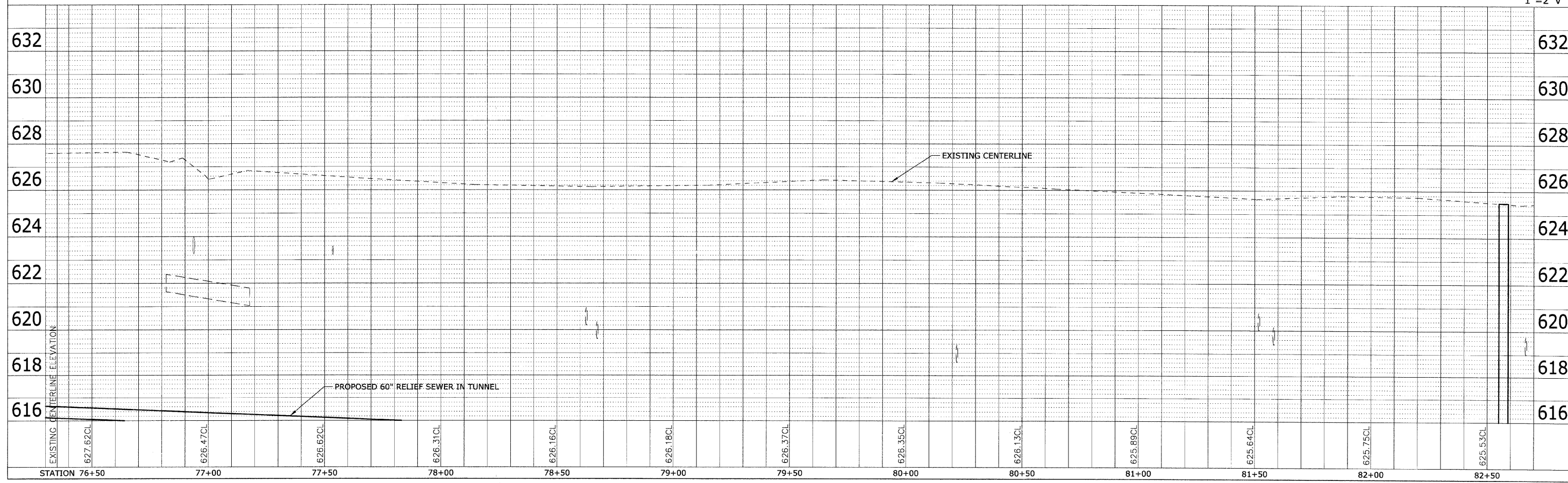
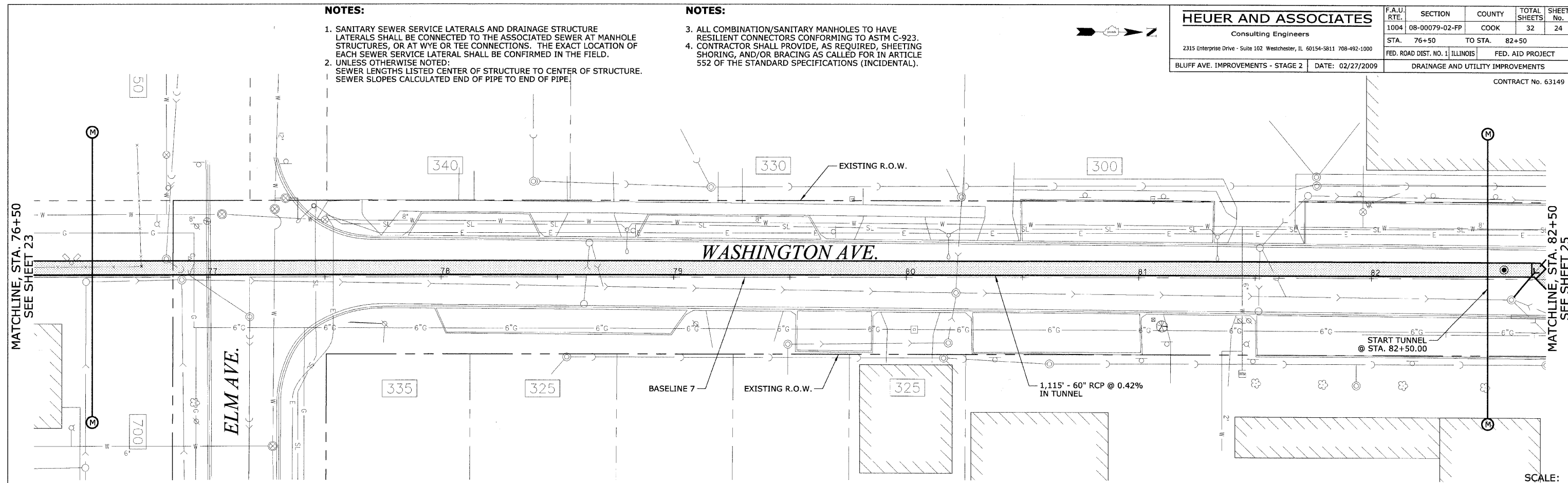
3. ALL COMBINATION/SANITARY MANHOLES TO HAVE RESILIENT CONNECTORS CONFORMING TO ASTM C-923.
4. CONTRACTOR SHALL PROVIDE, AS REQUIRED, SHEETING SHORING, AND/OR BRACING AS CALLED FOR IN ARTICLE 552 OF THE STANDARD SPECIFICATIONS (INCIDENTAL).

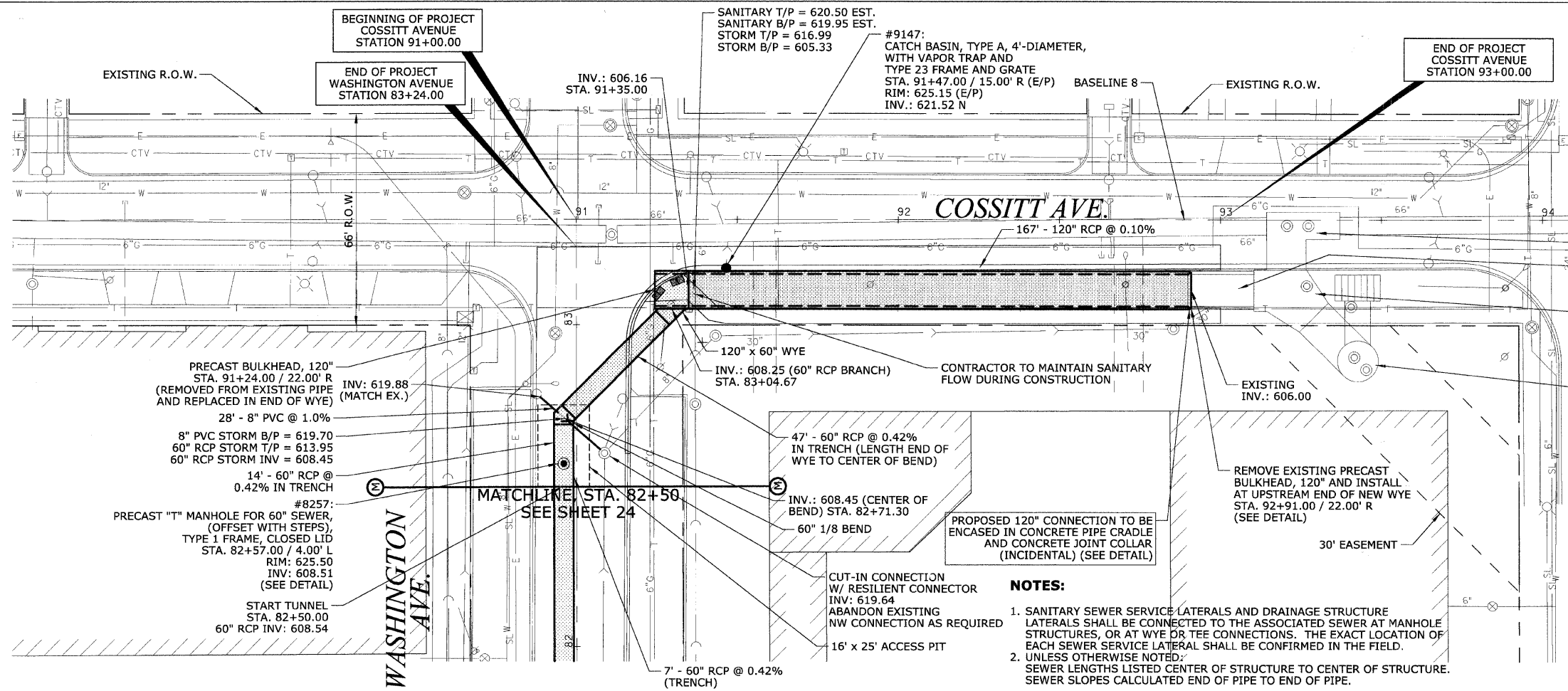
HEUER AND ASSOCIATES		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
Consulting Engineers		1004	08-00079-02-FP	COOK	32	24
2315 Enterprise Drive • Suite 102 Westchester, IL 60154-5811 708-492-1000		STA. 76+50	TO STA. 82+50		82+50	
BLUFF AVE. IMPROVEMENTS - STAGE 2		DATE: 02/27/2009		FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT
				DRAINAGE AND UTILITY IMPROVEMENTS		
CONTRACT No. 63149						



PLAN	DESIGNED	DATE
NOTE BOOK	BY	
NO.		

PROFILE	DESIGNED	DATE
NOTE BOOK	BY	
NO.		



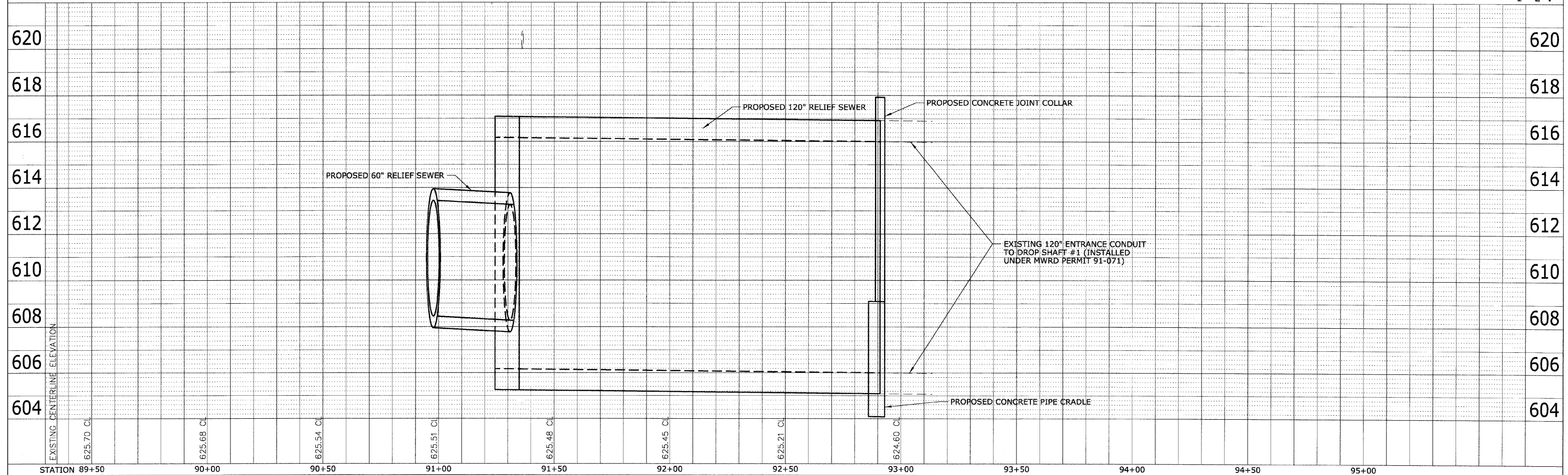


- PRECAST BULKHEAD, 120" STA. 91+24.00 / 22.00' R (REMOVED FROM EXISTING PIPE AND REPLACED IN END OF WYE)
- 8" PVC STORM B/P = 619.70
- 60" RCP STORM T/P = 613.95
- 60" RCP STORM INV = 608.45
- 14' - 60" RCP @ 0.42% IN TRENCH
- #8257: PRECAST "T" MANHOLE FOR 60" SEWER, (OFFSET WITH STEPS), TYPE 1 FRAME, CLOSED LID STA. 82+57.00 / 4.00' L RIM: 625.50 INV: 608.51 (SEE DETAIL)
- START TUNNEL STA. 82+50.00 60" RCP INV: 608.54

- NOTES:**
- SANITARY SEWER SERVICE LATERALS AND DRAINAGE STRUCTURE LATERALS SHALL BE CONNECTED TO THE ASSOCIATED SEWER AT MANHOLE STRUCTURES, OR AT WYE OR TEE CONNECTIONS. THE EXACT LOCATION OF EACH SEWER SERVICE LATERAL SHALL BE CONFIRMED IN THE FIELD.
 - UNLESS OTHERWISE NOTED: SEWER LENGTHS LISTED CENTER OF STRUCTURE TO CENTER OF STRUCTURE. SEWER SLOPES CALCULATED END OF PIPE TO END OF PIPE.

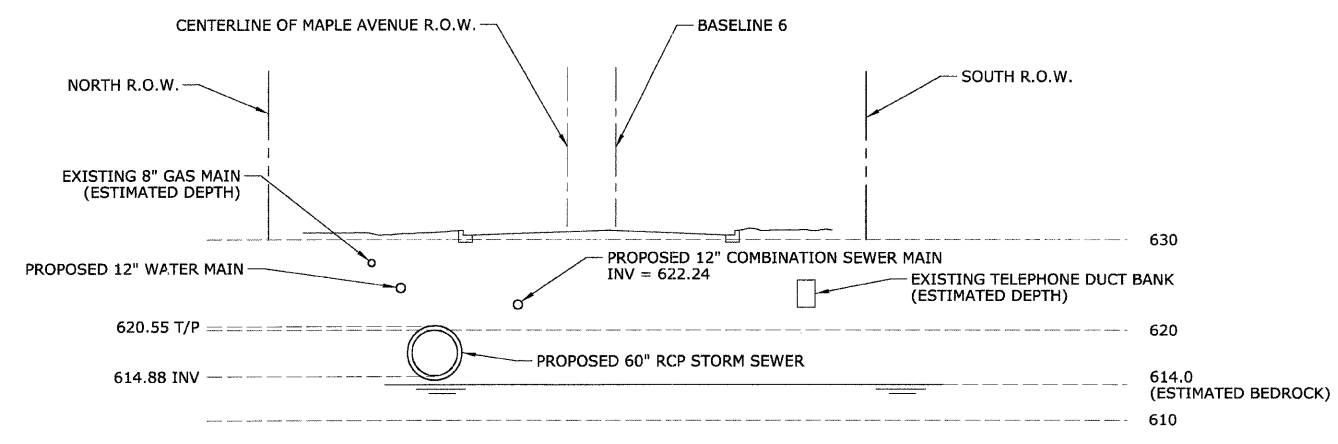
- NOTES:**
- ALL COMBINATION/SANITARY MANHOLES TO HAVE RESILIENT CONNECTORS CONFORMING TO ASTM C-923.
 - CONTRACTOR SHALL PROVIDE, AS REQUIRED, SHEETING SHORING, AND/OR BRACING AS CALLED FOR IN ARTICLE 552 OF THE STANDARD SPECIFICATIONS (INCIDENTAL).

SCALE:
 1" = 20' H
 1" = 2' V

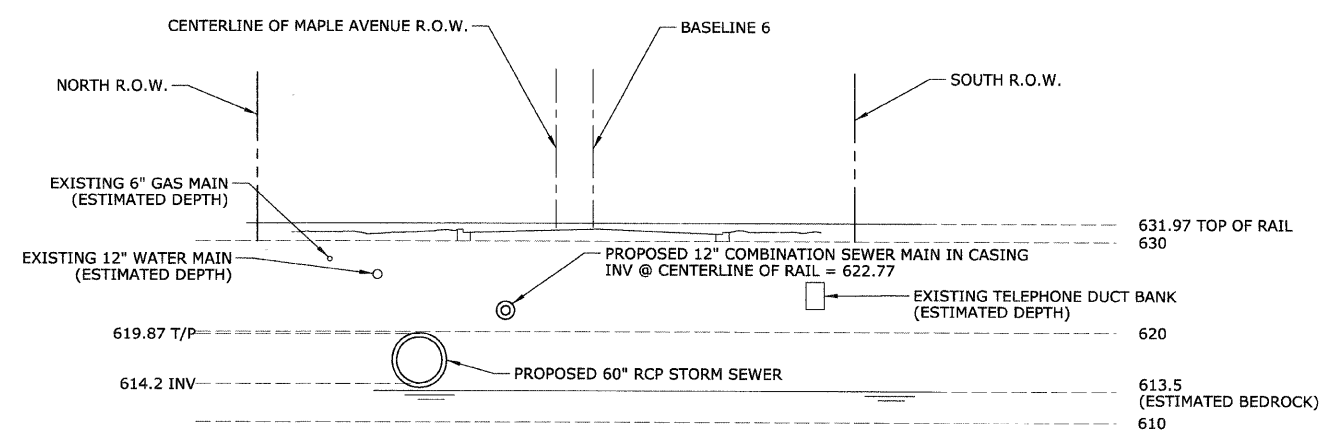


DATE	BY	REVISION
		PLAN
		PROFILE

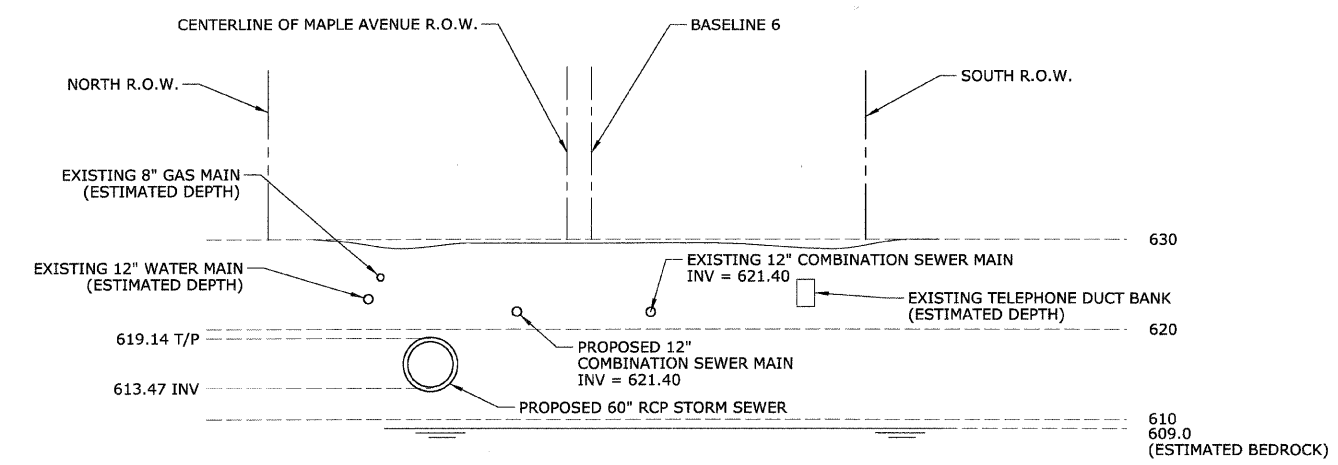
CONTRACT No. 63149



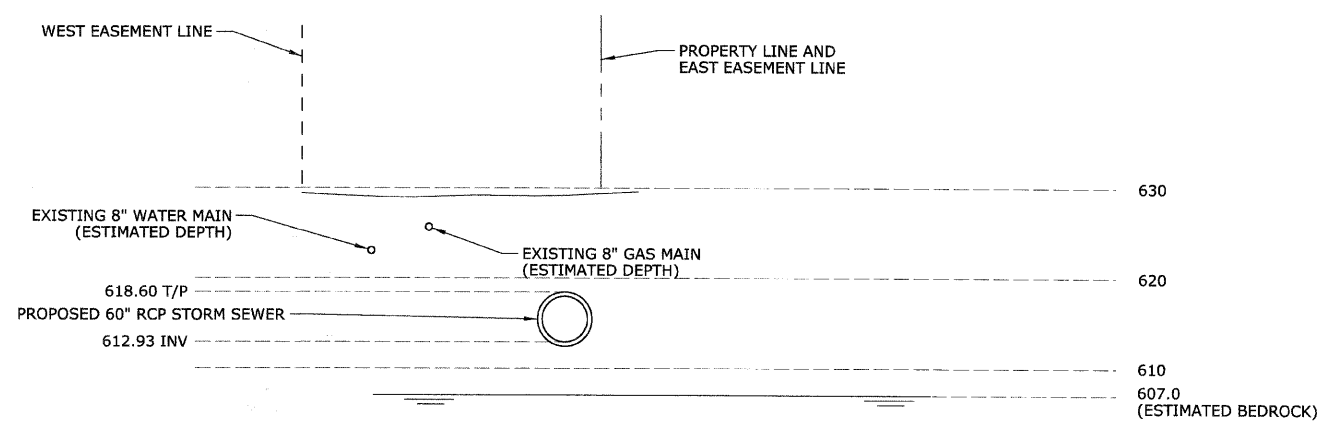
SECTION DETAIL 61+50
(LOOKING EAST)



SECTION DETAIL 63+00
(LOOKING EAST)



SECTION DETAIL 64+80
(LOOKING EAST)



SECTION DETAIL 72+00
(LOOKING NORTH)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BLUFF AVENUE IMPROVEMENTS
STAGE 2

SEWER OUTLET CROSS-SECTIONS

SCALE: NTS
 DATE 02/27/2009

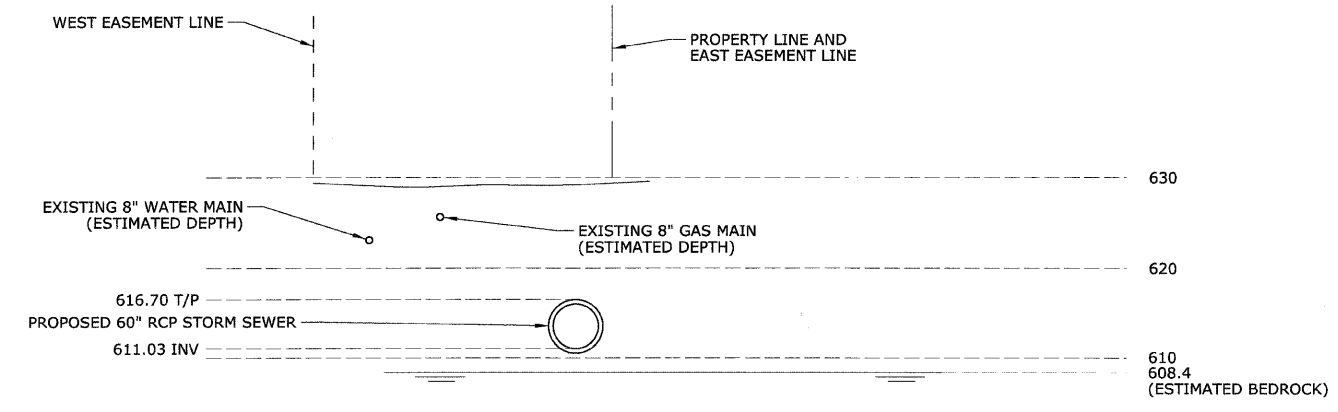
DRAWN BY H&A
 CHECKED BY PFH

PLAN	DATE
BY	
CHECKED	
DATE	
NO.	

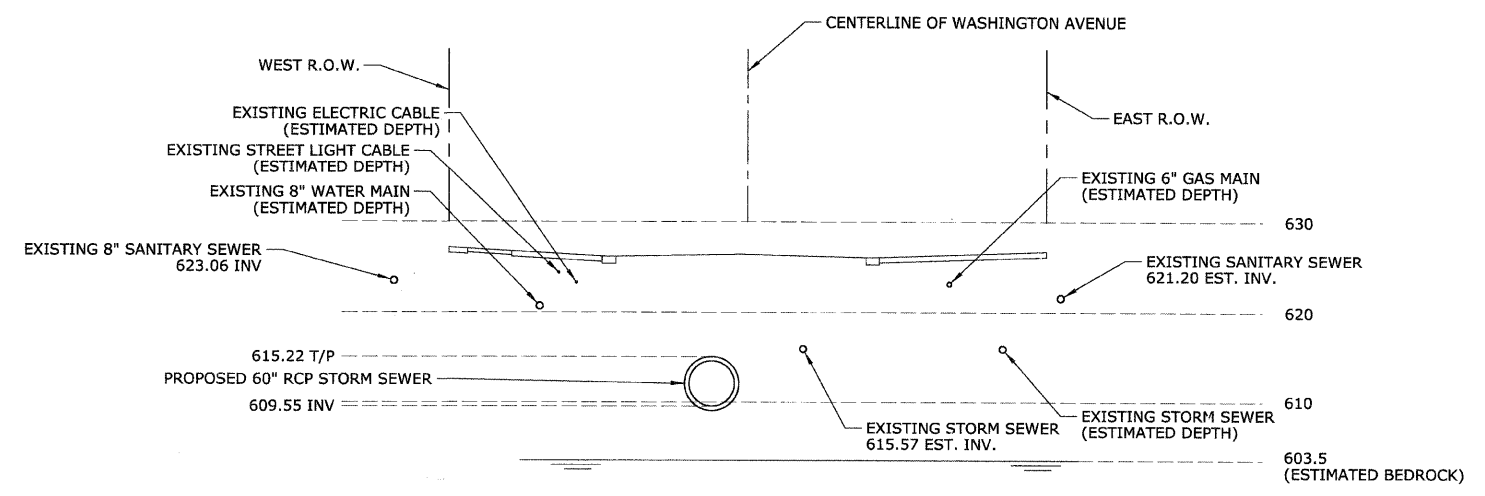
PROFILE	DATE
BY	
CHECKED	
DATE	
NO.	

CONTRACT No. 63149

PLAN	DESIGNED	DATE
	PLOTTED	
	CHECKED	
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	NO. 2	
	NO. 3	

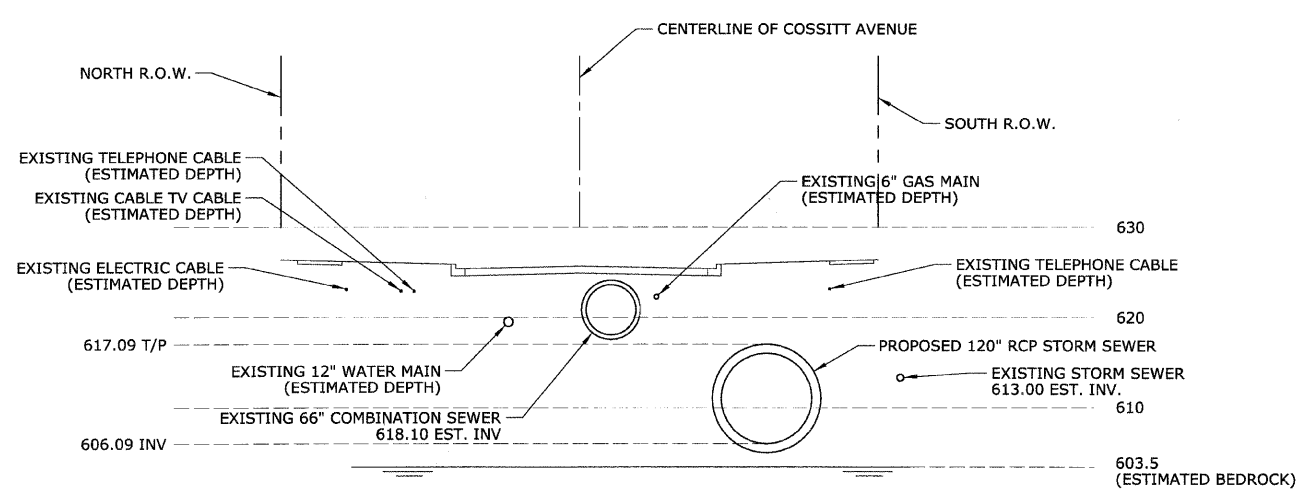


**SECTION DETAIL 76+50
(LOOKING NORTH)**



**SECTION DETAIL 80+00
(LOOKING NORTH)**

PROFILE	DESIGNED	DATE
	PLOTTED	
	CHECKED	
	NO. 1	
	NO. 2	
	NO. 3	

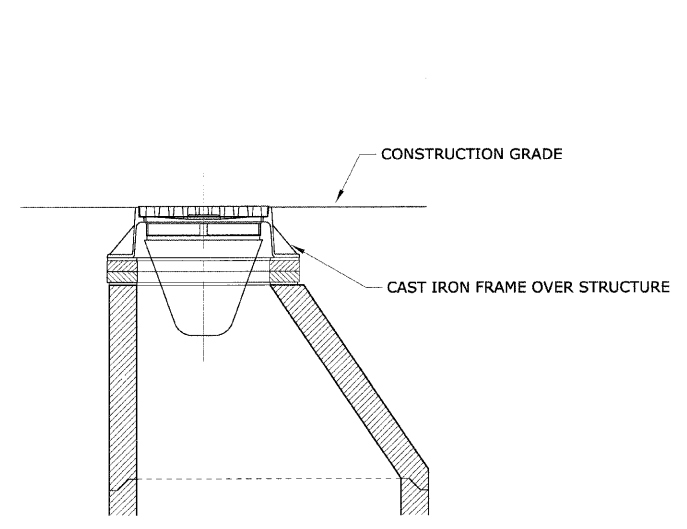


**SECTION DETAIL 92+00
(LOOKING EAST)**

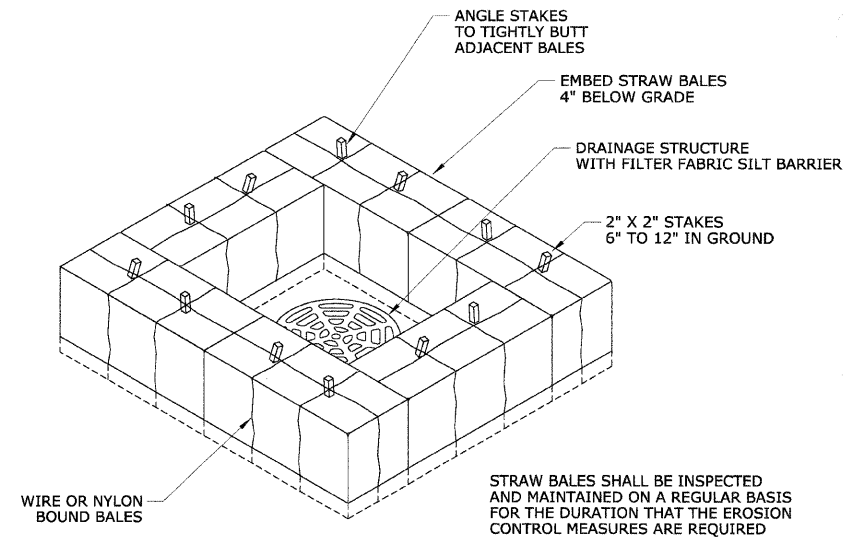
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**BLUFF AVENUE IMPROVEMENTS
 STAGE 2**
SEWER OUTLET CROSS-SECTION
 SCALE: NTS
 DATE 02/27/2009
 DRAWN BY H&A
 CHECKED BY PFH

CONTRACT No. 63149



INLET FILTER INSTALLATION DETAIL

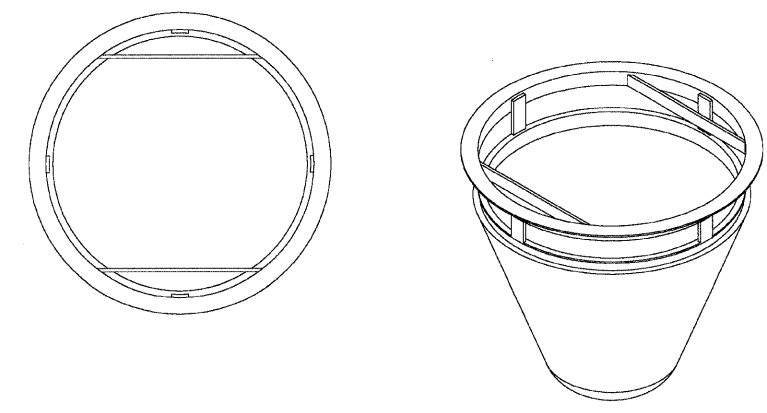


STRAW BALE SURROUND DETAIL

STABILIZATION TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
PERMANENT SEEDING			A			*	*					
DORMANT SEEDING	B										B	
TEMPORARY SEEDING			C			* D *						
SODDING			E**									
MULCHING	F											

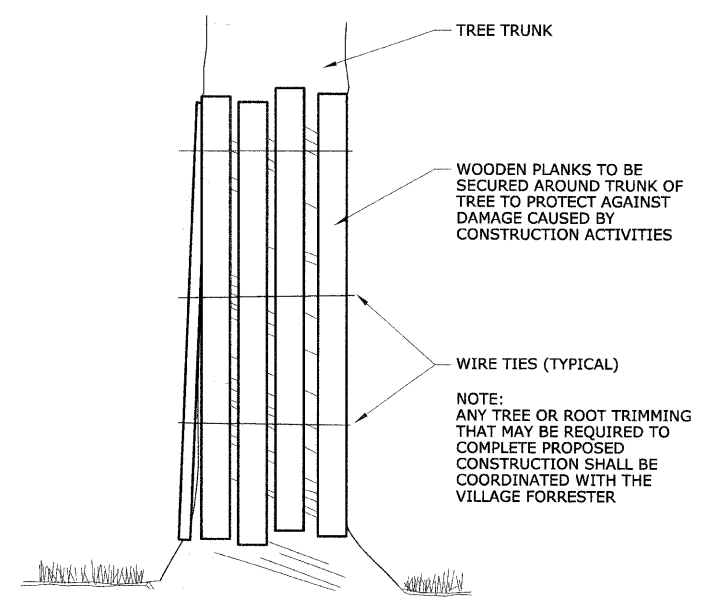
- A. KENTUCKY BLUEGRASS 90 LBS/AC MIXED WITH PERENNIAL RYEGRASS 30 LBS/AC
 - B. KENTUCKY BLUEGRASS 135 LBS/AC MIXED WITH PERENNIAL RYEGRASS 45 LBS/AC + 2 TONS STRAW MULCH/AC
 - C. SPRING OATS 100 LBS/AC
 - D. WHEAT OR CEREAL RYE 150 LBS/AC
 - E. SOD
 - F. STRAW MULCH 2 TONS/AC
- * IRRIGATION NEEDED DURING JUNE AND JULY
- ** IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD

SOIL PROTECTION CHART



INLET FILTER ASSEMBLY DETAIL

- NOTES**
1. INLET FILTER ASSEMBLY SHALL MEET IDOT'S PROVISIONAL SPECIFICATIONS (ISP 04-11).
 2. MAINTENANCE/CLEANING OF THE INLET FILTER ASSEMBLY SHALL BE IN STRICT ACCORDANCE WITH THE SPECIAL PROVISIONS AND THE MANUFACTURER'S RECOMMENDATIONS AND WRITTEN SPECIFICATIONS.
 3. PRIOR TO ORDERING MATERIALS, THE CONTRACTOR SHALL DETERMINE THE SIZE AND SHAPE OF THE VARIOUS DRAINAGE STRUCTURES BEING PROTECTED.
 4. MANUFACTURER SHALL FURNISH A CERTIFICATION WITH EACH SHIPMENT STATING COMPLIANCE WITH IDOT REQUIREMENTS.
 5. ASSEMBLY SHALL BE AS MANUFACTURED BY INLET AND PIPE PROTECTION, INC., MARATHON MATERIALS, OR APPROVED EQUAL.



TREE TRUNK PROTECTION

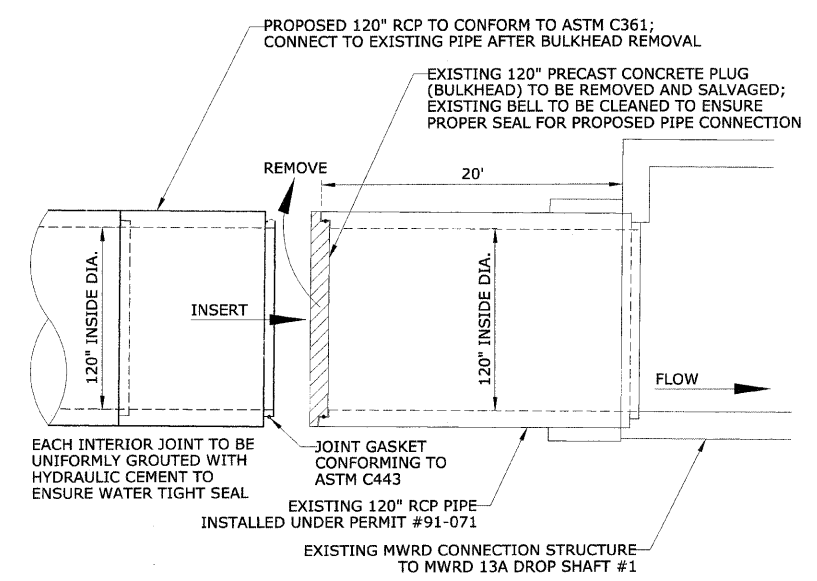
REVISIONS	
NAME	DATE

DATE: _____ BY: _____
 CHECKED: _____
 PLAN NO.: _____

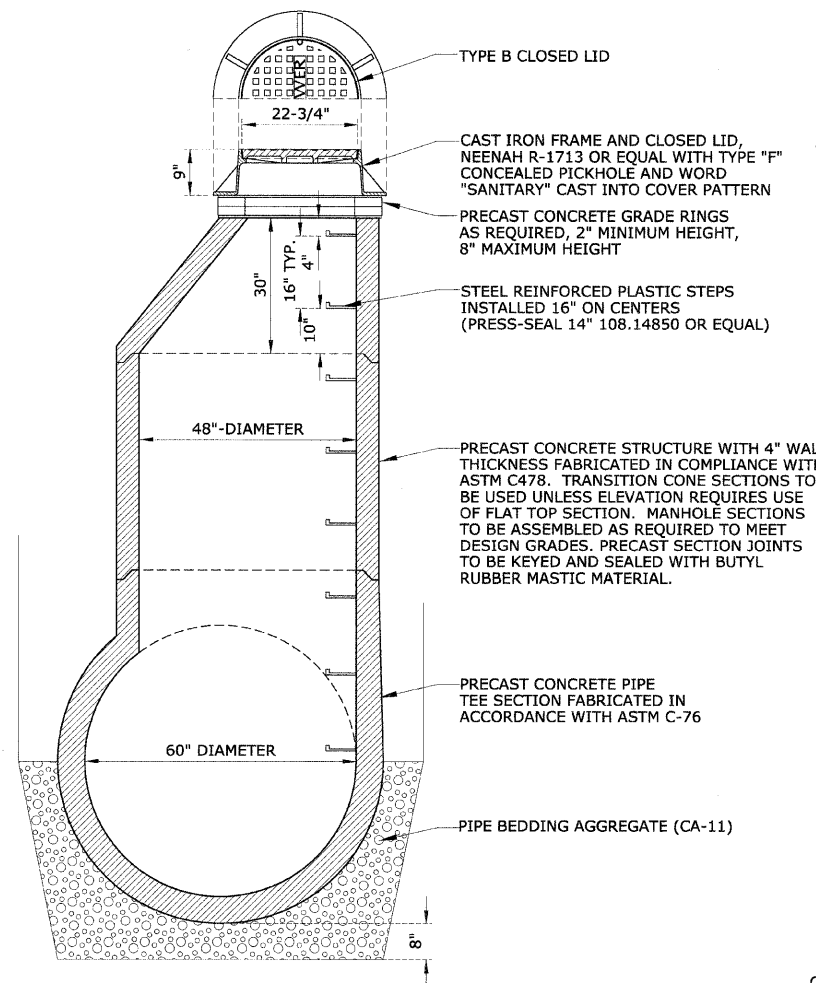
DATE: _____ BY: _____
 CHECKED: _____
 PROFILE NO.: _____

PLAN
 REVISIONS
 DATE
 BY
 CHECKED
 DATE
 NO.
 NO.

PROFILE
 REVISIONS
 DATE
 BY
 CHECKED
 DATE
 NO.
 NO.

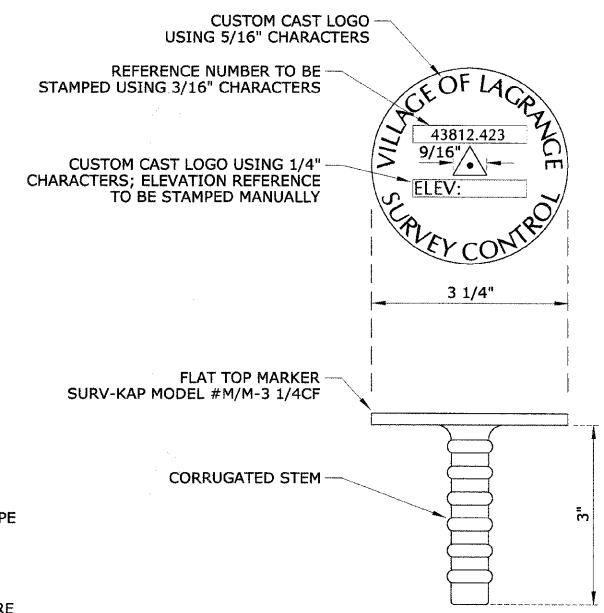


EXISTING PRECAST PLUG (BULKHEAD) REMOVAL AND 120" CONNECTION TO EXISTING 120" RCP

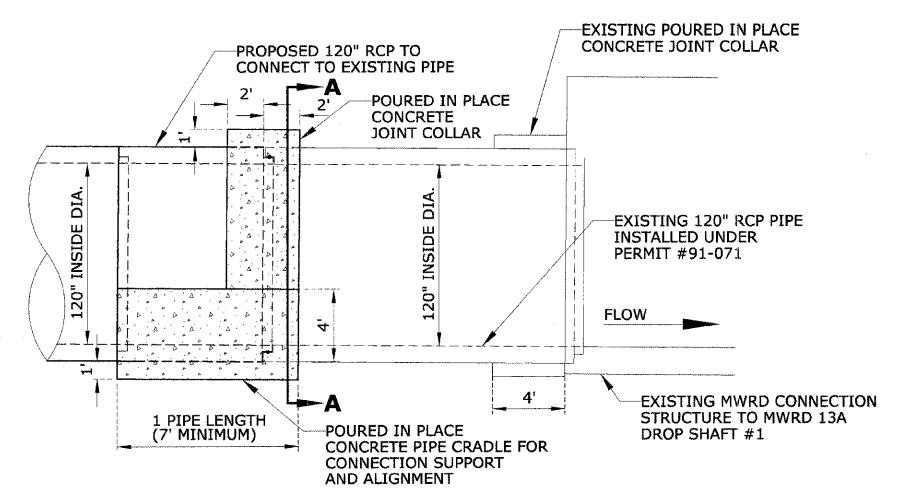


PRECAST "T" MANHOLE FOR 60" SEWER WITH TYPE 1 FRAME AND CLOSED LID

SURVEY MARKER DATA		
SHEET NUMBER	BLOCK LOCATION	STAMPED REFERENCE NUMBER
19	4-418	43812-418
22	4-405	43812-405

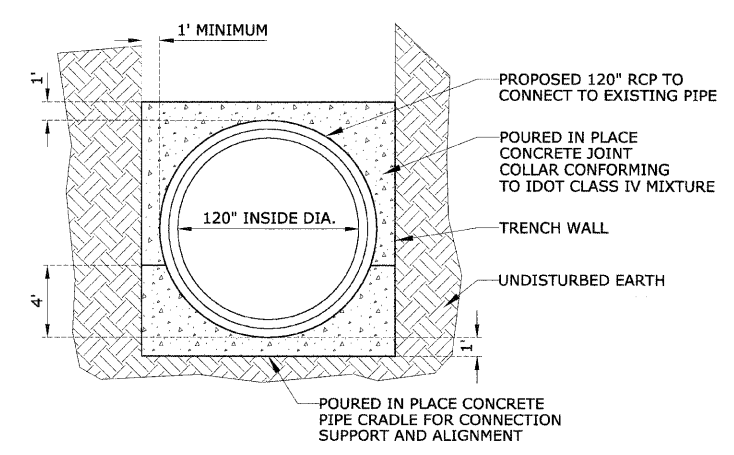


PERMANENT SURVEY MARKER



ELEVATION VIEW

120" CONNECTION TO EXISTING 120" RCP WITH PIPE CRADLE AND JOINT COLLAR



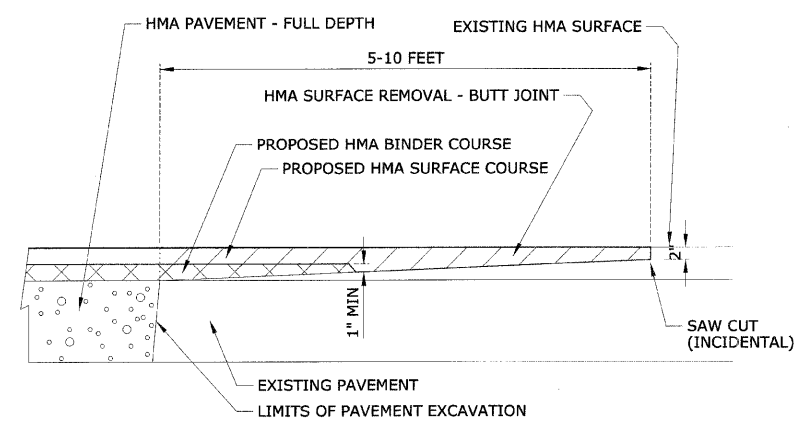
SECTION A - A

REVISIONS	
NAME	DATE

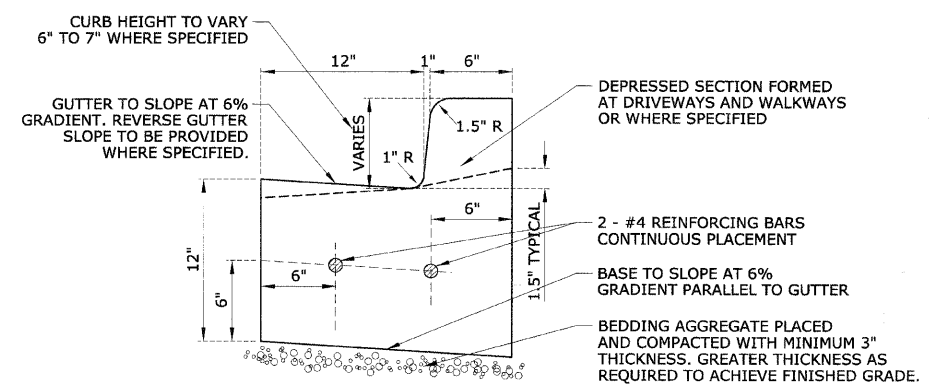
ILLINOIS DEPARTMENT OF TRANSPORTATION
BLUFF AVENUE IMPROVEMENTS STAGE 2
CONSTRUCTION DETAILS - SPECIAL
 SCALE: NTS
 DATE 02/27/2009
 DRAWN BY H&A
 CHECKED BY PFH

DATE	BY	REVISION
		NOT RISK
		PLANNED
		ADD FILE NAME

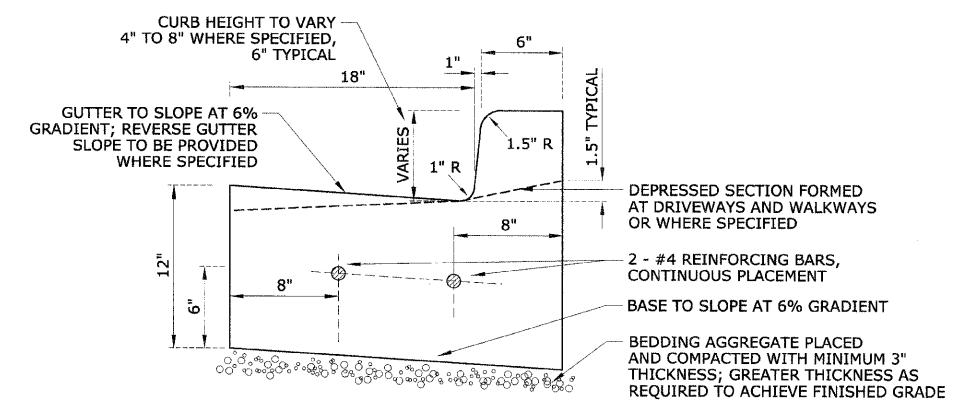
DATE	BY	REVISION
		GRADES CHECKED
		STRUCTURE NOTATIONS OK'D



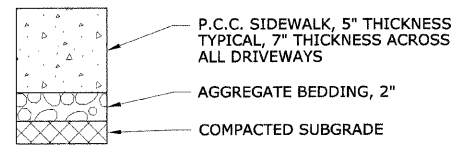
BUTT JOINT DETAIL



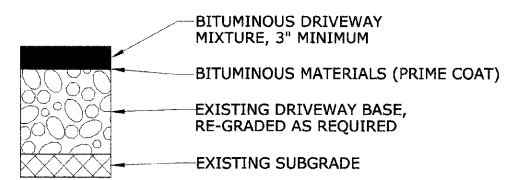
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 WITH STANDARD GUTTER GRADIENT



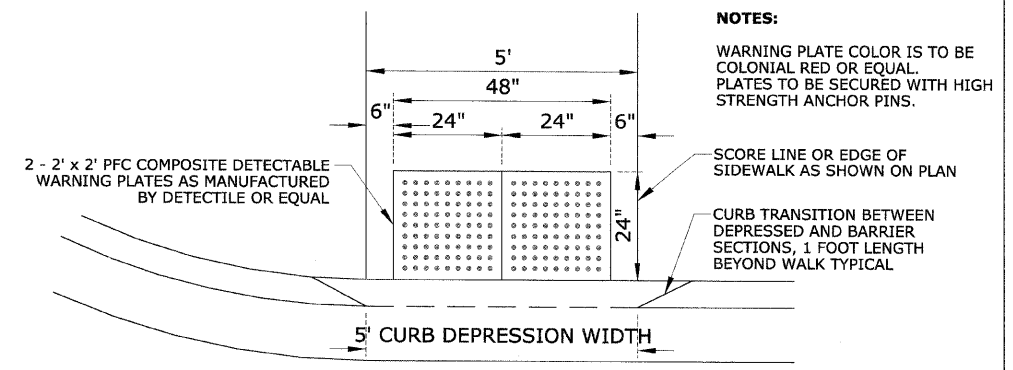
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18



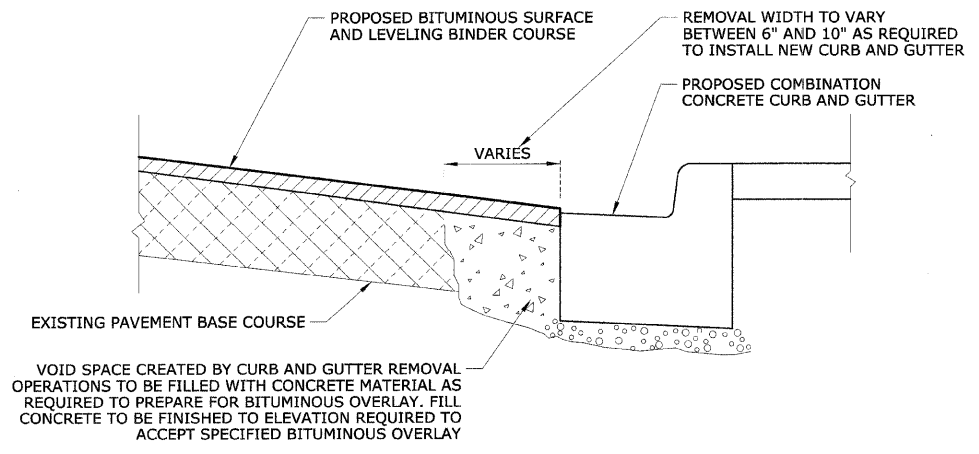
P.C.C. SIDEWALK



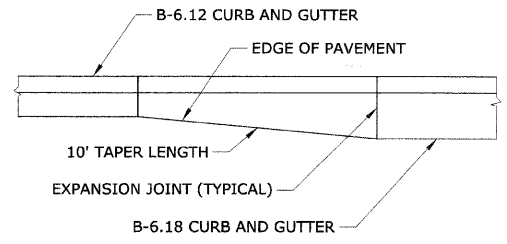
BITUMINOUS DRIVEWAY TRANSITION (CLASS C PATCH, 3" MINIMUM THICKNESS)



HANDICAP RAMP WITH DETECTABLE WARNINGS



CONCRETE FILLET DETAIL



TRANSITION LENGTH FROM B-6.12 TO B-6.18 CURB AND GUTTER

NOTE:
THIS ITEM IS TO BE PAID FOR UNDER THE PAY ITEM FOR COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18.

REVISIONS	
NAME	DATE

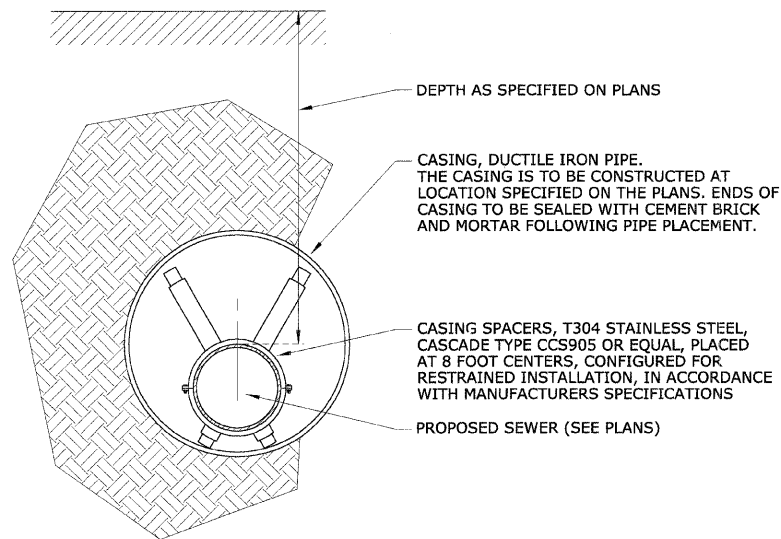
ILLINOIS DEPARTMENT OF TRANSPORTATION
BLUFF AVENUE IMPROVEMENTS STAGE 2

CONSTRUCTION DETAILS - SPECIAL

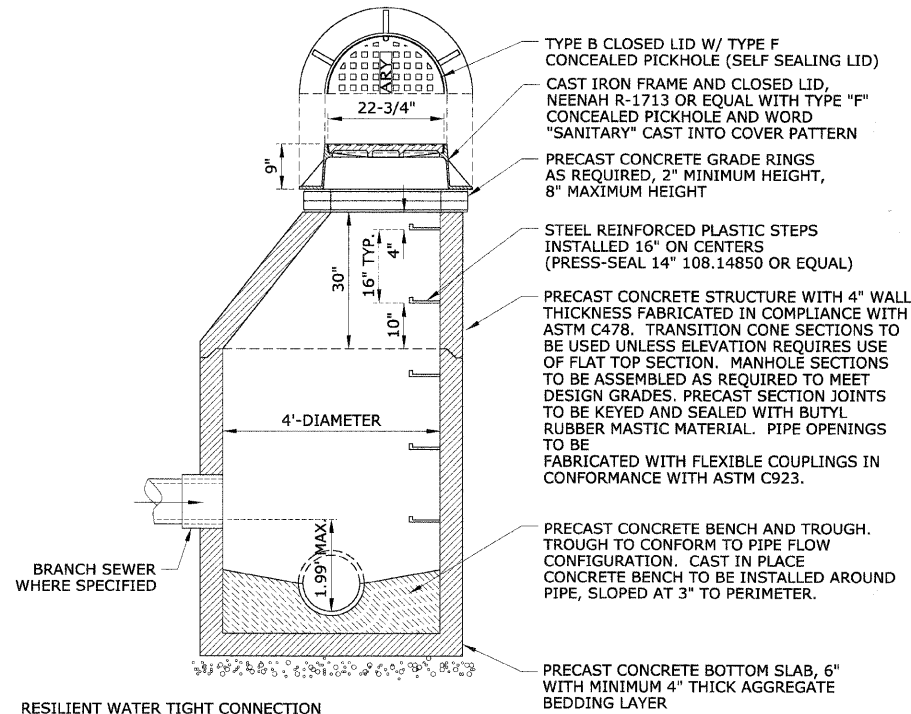
SCALE: NTS
DATE 02/27/2009

DRAWN BY H&A
CHECKED BY PFH

DATE	BY	NO.

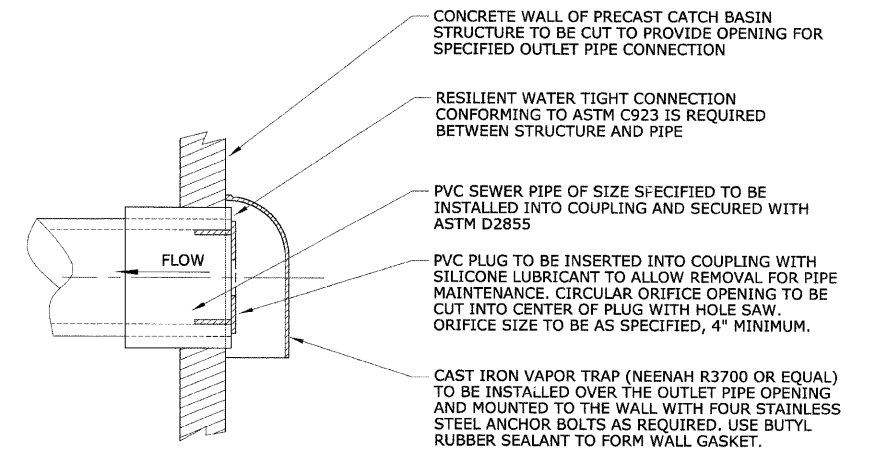


SEWER MAIN IN CASING PIPE



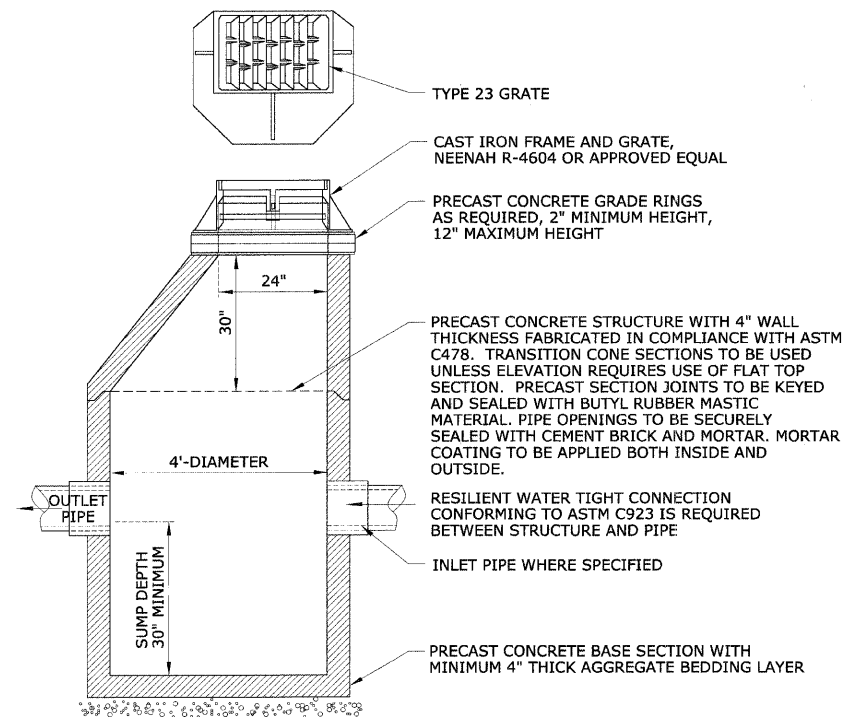
RESILIENT WATER TIGHT CONNECTION CONFORMING TO ASTM C923 IS REQUIRED BETWEEN STRUCTURE AND PIPE

MANHOLE, TYPE A, 4'-DIAMETER WITH TYPE 1 FRAME AND CLOSED LID

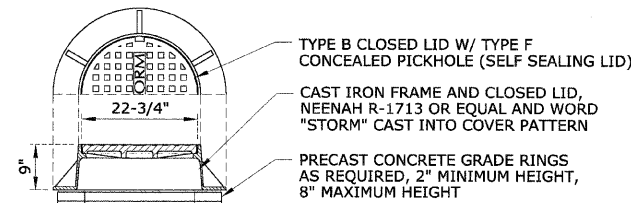


CAST IRON VAPOR TRAP WITH ORIFICE RESTRICTOR

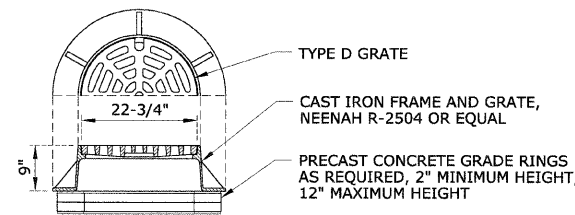
DATE	BY	NO.



CATCH BASIN, TYPE A, 4'-DIAMETER WITH TYPE 23 FRAME AND GRATE



WITH TYPE 1 FRAME AND SELF SEALING CLOSED LID



WITH TYPE 1 FRAME AND GRATE

ALTERNATIVE FRAMES AND GRATES/LIDS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**BLUFF AVENUE IMPROVEMENTS
STAGE 2**

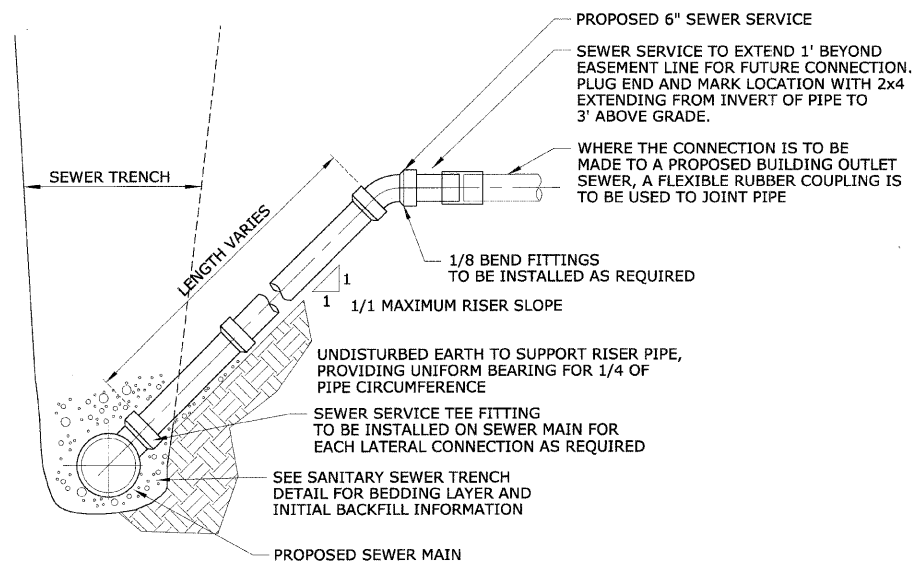
CONSTRUCTION DETAILS - SPECIAL

SCALE: NTS
DATE 02/27/2009

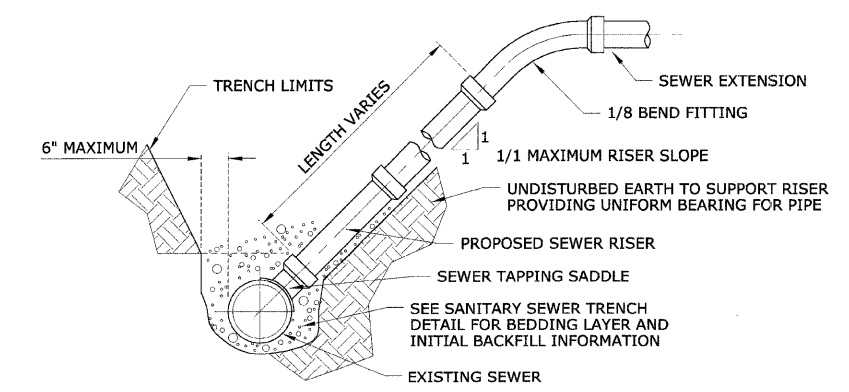
DRAWN BY H&A
CHECKED BY PFH

DATE: _____ BY: _____
 PLAN REVISIONS: _____
 NO. _____ DATE _____
 NO. _____ DATE _____
 NO. _____ DATE _____

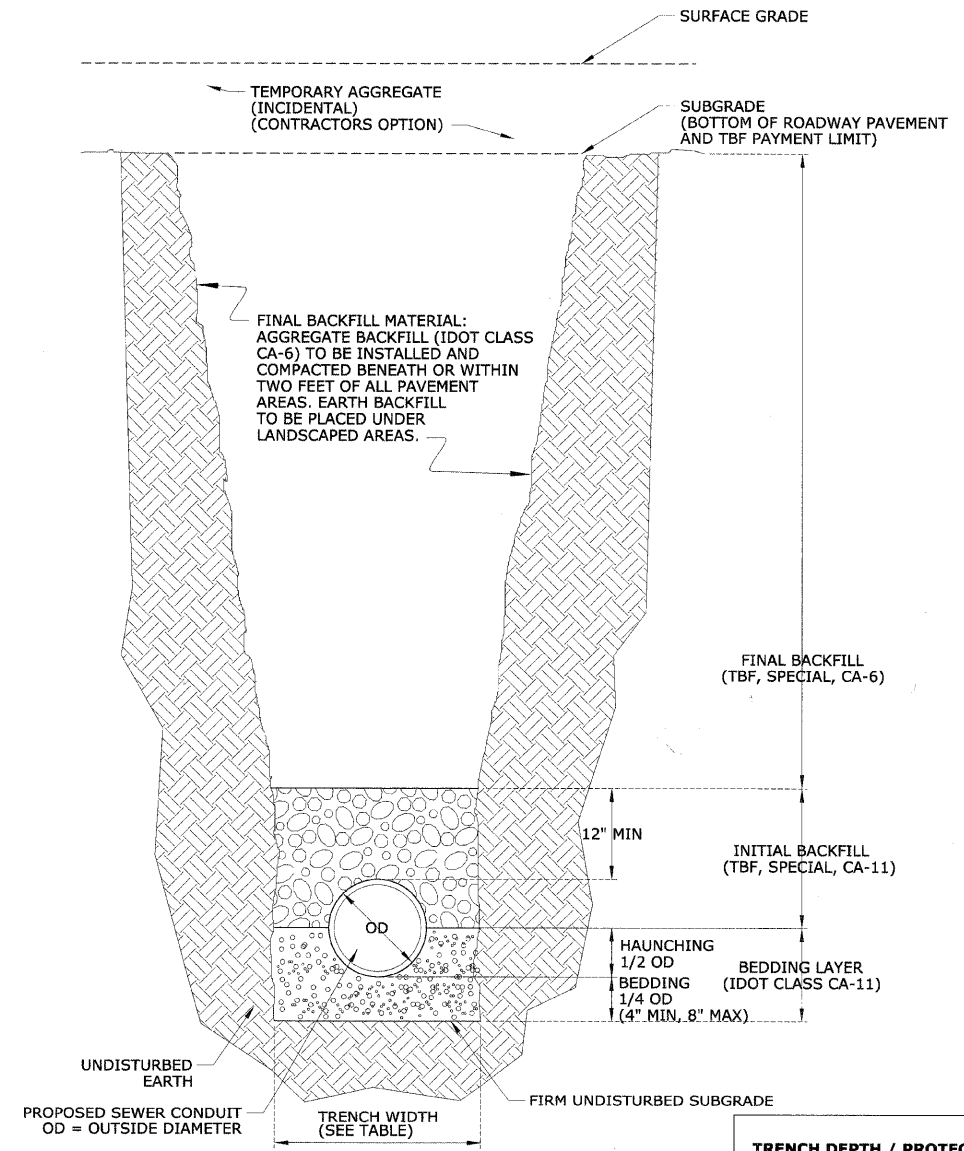
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 PROFILE REVISIONS: _____
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 NO. _____ DATE _____



SEWER SERVICE TEE AND RISER

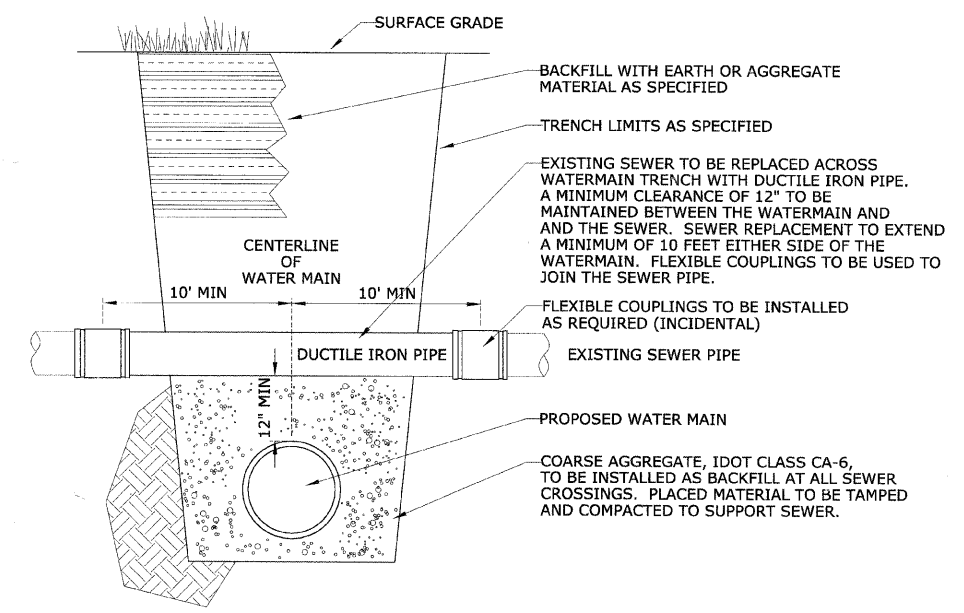


TAPPED SEWER SERVICE AND RISER



SEWER TRENCH DETAIL

TRENCH DEPTH / PROTECTION	MAXIMUM PAYMENT WIDTH OF TRENCH
5 FT AND LESS, W/O PROTECTION	OD + 18"
5 FT AND LESS, W/ PROTECTION	OD + 36"
GREATER THAN 5 FT	OD + 36"



SEWER CROSSING DETAIL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BLUFF AVENUE IMPROVEMENTS
STAGE 2
CONSTRUCTION DETAILS - SPECIAL
 SCALE: NTS
 DATE 02/27/2009
 DRAWN BY H&A
 CHECKED BY PFH