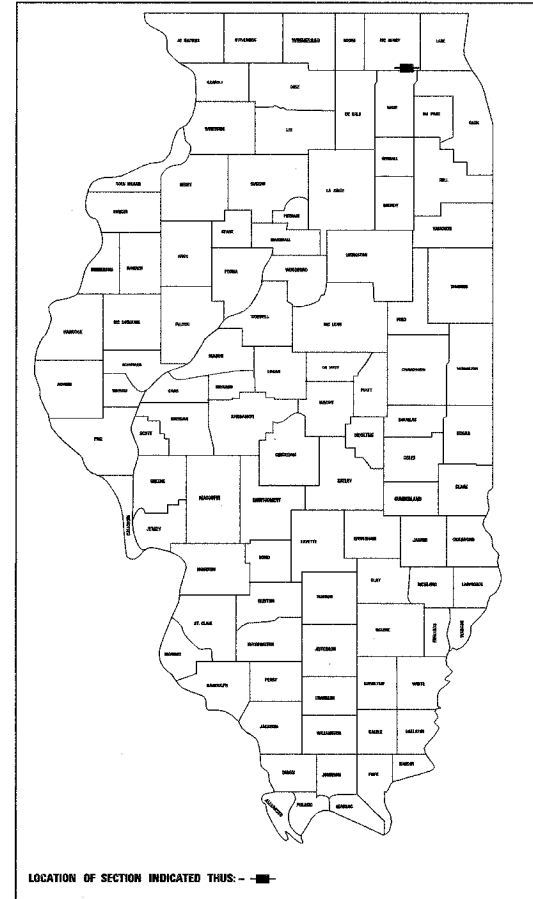


F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	06-00071-00-PV	McHENRY	31	1
ILLINOIS PROJECT				
CONTRACT NO. 63001				

INDEX OF SHEETS

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5 ALIGNMENT AND TIES	18-27 CROSS SECTIONS
6 DETOUR PLAN	28 VILLAGE DETAILS
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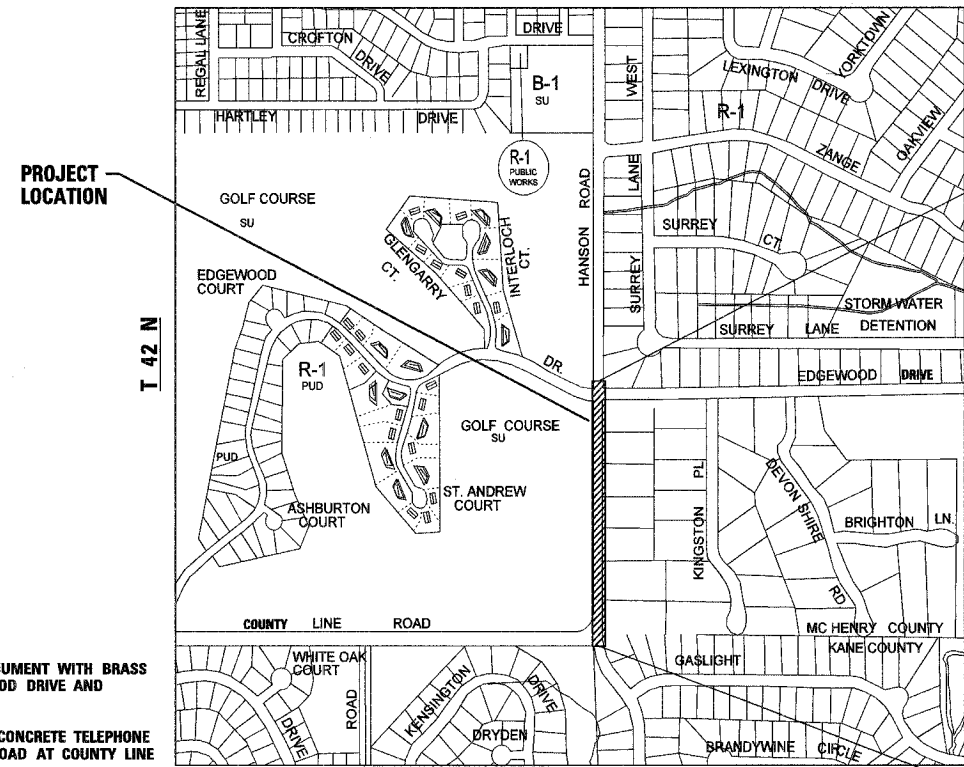
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID PROJECT
FAU ROUTE 4011 / HANSON ROAD
COUNTY LINE ROAD TO EDGEWOOD DRIVE
ROADWAY RECONSTRUCTION
PROJECT NO. M-8003 (823)
SECTION NO. 06-00071-00-PV
VILLAGE OF ALGONQUIN
MCHENRY/KANE COUNTY**



**ILLINOIS DEPARTMENT OF TRANSPORTATION
STANDARD DRAWINGS**

- 00001-C5 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 280001-C4 TEMPORARY EROSION CONTROL SYSTEMS
- 424001-C5 CURB RAMPS FOR SIDEWALKS
- 442201-03 CLASS D PATCHING
- 602001 CATCH BASIN, TYPE A
- 602301-01 INLET, TYPE A
- 602401-01 MANHOLE, TYPE A
- 602406-02 MANHOLE, TYPE A, 6' DIAMETER
- 602601-01 PRECAST REINFORCED CONCRETE FLAT SLAB TOP
- 602701-01 MANHOLE STEPS
- 604001-02 FRAME AND LIDS, TYPE 1
- 604006-03 FRAME AND GRATE, TYPE 3
- 604011-03 FRAME AND GRATE, TYPE 3V
- 604036-01 GRATE, TYPE 8
- 606001-03 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 701701-05 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701901 TRAFFIC CONTROL DEVICES
- 780001-01 TYPICAL PAVEMENT MARKINGS
- BLR 24-1 MAILBOX TURNOUT FOR LOCAL ROADS
- BD 32 DISTRICT 1 BUTT JOINT AND HMA PAVEMENT TAPER DETAILS
- TC 10 TRAFFIC CONTROL AND PROTECTION FOR SIDE SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
- TC 13 DISTRICT 1 TYPICAL PAVEMENT MARKINGS

C-91-313-07
R 8 E



IMPROVEMENT ENDS
STA. 615+15

IMPROVEMENT BEGINS
STA. 600+73

TRAFFIC DATA

6,800 (2006) ADT
10,000 (2030) ADT
SPEED LIMIT 40 MPH

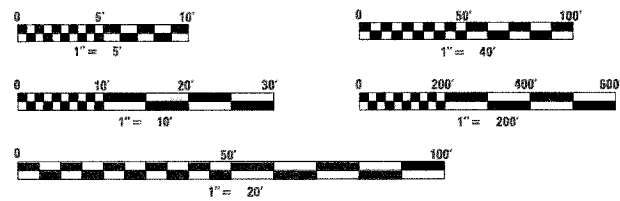
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

APPROVED *December 19, 2007*
[Signature]
VILLAGE OF ALGONQUIN

PASSED *December 27, 2007*
[Signature]
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID *Dec. 31, 2007*
BASED ON LIMITED REVIEW *Diane O'Keefe/col*
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

[Professional Engineer Seal]
MARGARET A. YOUNG
062-057239
LICENSED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
12/19/07
L.I.C. EXPIRES 11/30/09



- BENCHMARKS:**
- VILLAGE OF ALGONQUIN CONCRETE MONUMENT WITH BRASS CAP AT SOUTHWEST CORNER OF EDGEWOOD DRIVE AND HANSON ROAD ELEV.=862.31
 - CUT SQUARE ON NORTHWEST SIDE OF CONCRETE TELEPHONE PEDESTAL ON EAST SIDE OF HANSON ROAD AT COUNTY LINE ROAD ELEV.=900.91

**FOR UNDERGROUND UTILITY LOCATIONS
CALL J.U.L.I.E. (TOLL FREE 1-800-892-0123)
48 HOURS PRIOR TO CONSTRUCTION**

CONTRACT NO. 63001

LOCATION MAP
NTS
PROJECT LENGTH = 1,442 LIN. FT. (0.27 MILES)

GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
8501 W. Higgins Road, Suite 280
Chicago, Illinois 60631
(773) 399-0112

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	06-00071-00-PV	McHENRY	31	2

ILLINOIS PROJECT
CONTRACT NO. 63001

GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2007 AND THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2008 REFERRED TO AS THE STANDARD SPECIFICATIONS EXCEPT AS MODIFIED IN THESE PLANS OR THE SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY.
- THE CONTRACTOR SHALL CALL JJJ.L.I.E. (1-800-892-0123) FOR UNDERGROUND UTILITY LOCATIONS PRIOR TO BEGINNING ANY EXCAVATION WORK.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING UTILITY LOCATIONS AND ELEVATIONS, PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- ANY DAMAGE DONE BY THE CONTRACTOR TO EXISTING UNDERGROUND UTILITIES OR SURFACE IMPROVEMENTS TO REMAIN SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SIGNS, BARRICADES, AND FENCES AS REQUIRED TO COMPLY WITH LOCAL, STATE, AND FEDERAL LAW.
- ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH APPLICABLE IDOT HIGHWAY STANDARDS.
- THE CONTRACTOR SHALL NOTIFY RESIDENTS 24 HOURS PRIOR TO REMOVING ANY DRIVEWAY PAVEMENT. THE CONTRACTOR SHALL USE A VILLAGE APPROVED DOOR HANGER CARD WITH ALL IMPORTANT CONSTRUCTION SCHEDULE INFORMATION DISPLAYED.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE ADJUTING PROPERTIES INTERSECTING ROADWAYS FOR THE DURATION OF CONSTRUCTION. AGGREGATE SURFACE COURSE, TYPE B SHALL INCLUDE PLACEMENT, MAINTENANCE, AND REMOVAL OF TEMPORARY AGGREGATE FOR THIS PURPOSE. MATERIAL SHALL BE PLACED TO A SUFFICIENT DEPTH AND WIDTH TO THE SATISFACTION OF THE ENGINEER, AND SHALL CONSIST OF IDOT GRADATION CA-6 CRUSHED LIMESTONE. THIS MATERIAL MAY BE RE-USED IN CONSTRUCTION WITH PERMISSION OF THE ENGINEER.
- ALL TREES NOTED ON THE PLANS FOR PROTECTION SHALL BE TRIMMED, PRUNED, AND ROOT PRUNED, WITH A TEMPORARY FENCE PLACED AROUND THE PERIMETER TO PROTECT THEM FROM THE CONTRACTOR'S OPERATIONS.
- THE VILLAGE OF ALGONQUIN WILL ISSUE TO THE RESIDENTS OF THE PROJECT A TIMELINE FOR THE REMOVAL OF EXISTING MAILBOXES. THE CONTRACTOR WILL NEED TO PROVIDE GANG BOXES ON THE FRINGE OF THE PROJECT WHERE DIRECTED BY THE VILLAGE FOR MAIL DELIVERY DURING CONSTRUCTION. THE GANG BOXES MUST NOT BE KEY OPERATED. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- DURING NON-WORKING HOURS OR ON WEEKENDS, THE ENTIRE LENGTH OF THE IMPROVEMENT WILL HAVE A LANE OPEN FOR USE BY EMERGENCY VEHICLES. DURING DAYLIGHT HOURS, THE CONTRACTOR SHALL KEEP THE POLICE AND FIRE DEPARTMENTS NOTIFIED AS TO WHAT AREAS ARE CLOSED AND AT WHAT TIME THEY ARE TO BE OPENED AGAIN.
- HEAVY CONSTRUCTION VEHICLES WILL NOT BE PERMITTED TO CROSS OVER CURBS OR USE PRIVATE DRIVEWAYS FOR TURNAROUNDS, ANY DAMAGE TO PARKWAYS, CURBS AND DRIVEWAYS CAUSED BY THE CONTRACTOR'S OPERATIONS WILL BE REPAIRED AT HIS EXPENSE.
- THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO THAT ACCESS TO EXISTING HOMES OR BUSINESSES IS MAINTAINED. THE CONTRACTOR SHALL PROVIDE 24 HOUR NOTICE TO ANY PROPERTY OWNER WHOSE ACCESS MAY BE TEMPORARILY DISRUPTED BECAUSE OF CONSTRUCTION.
- USE OF FIRE HYDRANTS SHALL BE EXPRESSLY PROHIBITED UNLESS PERMITTED BY THE VILLAGE WATER DEPARTMENT. A METER OR SOME OTHER METHOD MUST BE USED TO ACCOUNT FOR THE AMOUNT OF WATER USED. A WATER USE PERMIT MUST BE TAKEN OUT BY THE CONTRACTORS WITHOUT FEE. ONLY EMPLOYEES OF THE VILLAGE ARE AUTHORIZED TO OPERATE VALVES CONNECTED TO THE VILLAGE SYSTEM.
- THE CONTRACTOR SHALL PROTECT TREES FROM DAMAGE DUE TO CONSTRUCTION EQUIPMENT AND OPERATIONS IN ACCORDANCE WITH VILLAGE STANDARDS. THE CONTRACTOR SHALL CONTACT THE VILLAGE'S PARKS AND FORESTRY SUPERINTENDENT TO DETERMINE IF ANY TREE TRIMMING, PRUNING, ROOT PRUNING OR PROTECTION IS REQUIRED PRIOR TO THE START OF CONSTRUCTION, UNLESS PROVIDED FOR IN A SPECIFIC PAY ITEM ALL SUCH TRIMMING, PRUNING AS WELL AS REPAIR OF WOUND SURFACES OR DAMAGE SHALL BE AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO THE WORK BY STORMS OR BY WATER ENTERING THE SITE OF THE WORK DIRECTLY OR THROUGH THE GROUND. IN CASE OF DAMAGE BY STORM OR WATER, THE CONTRACTOR SHALL AT HIS OWN EXPENSE MAKE SUCH REPAIRS OR REPLACEMENTS OR REBUILD SUCH PARTS OF THE WORK AS THE ENGINEER MAY REQUIRE IN ORDER THAT THE FINISHED WORK MAY BE COMPLETED AS REQUIRED BY THE CONTRACT.
- NO PERSON, FIRM OR CORPORATION, OTHER THAN THE CONTRACTOR, WHO SIGNED THIS CONTRACT AS SUCH, SHALL HAVE ANY INTEREST OR RIGHT. NO CLAIM SHALL BE MADE OR BE VALID EITHER AGAINST THE VILLAGE OR ANY AGENT OF THE VILLAGE AND NEITHER THE VILLAGE NOR ANY AGENT OF THE VILLAGE SHALL BE LIABLE FOR OR BE HELD TO PAY ANY MONEY.
- DURING CONSTRUCTION, THE PREMISES SHALL BE KEPT CLEAN OF RUBBISH, PAPER, AND OTHER DEBRIS. ALL SPOIL MATERIALS SHALL BE REMOVED FROM THE JOB SITE AS THEY ARE EXCAVATED. STOCKPILING OF SPOIL MATERIALS ON SITE WILL NOT BE PERMITTED. ALL DIRT TRACKED OFFSITE ONTO STREETS SHALL BE REMOVED TO THE SATISFACTION OF THE ENGINEER AT THE END OF THE WORK DAY OR AS OFTEN AS THE ENGINEER REQUIRES. ALL MATERIAL OR DEBRIS THAT HAS BEEN WASHED INTO EXISTING WATERCOURSE, DITCHES, GUTTERS, DRAINS, SEWER PIPE AND STRUCTURES AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REMOVED AND DISPOSED OF DURING THE PROGRESS OF THE WORK AND SHALL BE LEFT IN A CLEAN AND NEAT CONDITION UPON THE COMPLETION OF THE WORK.

SURFACE IMPROVEMENT NOTES

- ALL BASE COURSE, CURB & GUTTER, SIDEWALK, AND PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE IDOT STANDARD SPECIFICATIONS AND VILLAGE OF ALGONQUIN REQUIREMENTS.
- PRIOR TO PLACEMENT OF THE BASE COURSE, THE SUBGRADE SHALL BE INSPECTED BY PROOF-ROLLING IN THE PRESENCE OF THE ENGINEER, USING A FULLY LOADED TANDEM-AXEL TRUCK WITH A MINIMUM GROSS WEIGHT OF 25 TONS. ANY SOFT OR YIELDING AREAS SHALL BE SCARIFIED AND RECOMPACTED IN ACCORDANCE WITH ARTICLE 301 OF THE STANDARD SPECIFICATIONS. ANY UNSTABLE SOILS STILL PRESENT SHALL BE REMOVED AND REPLACED WITH COMPACTED POROUS GRANULAR EMBANKMENT (SUBGRADE) IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND AS DIRECTED BY THE ENGINEER. THE COST OF THE PROOF-ROLL SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- SUB-BASE GRANULAR MATERIALS FOR ROADWAY AND AGGREGATE BASE COURSE FOR THE BIKE PATH SHALL BE IDOT GRADATION CA-6 CRUSHED STONE, IN ACCORDANCE WITH ARTICLE 311 AND 351 OF THE STANDARD SPECIFICATIONS. RECLAIMED ASPHALT PAVEMENT (RAP) FROM COLD MILLING OF THE EXISTING PAVEMENT MAY BE SUBSTITUTED WITH APPROVAL OF THE ENGINEER.
- PRIOR TO PLACEMENT OF THE CURB AND GUTTER AND THE PAVEMENT BINDER COURSE, THE CONTRACTOR SHALL PROOF-ROLL THE COMPACTED SUB-BASE COURSE AS DESCRIBED ABOVE, WITH ANY SOFT OR YIELDING AREAS REMOVED AND REPLACED AS DIRECTED. THE COST OF THE PROOF-ROLL SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- ROADWAY AND DRIVEWAY PAVEMENT SHALL BE FULL-DEPTH SAWCUT PRIOR TO REMOVAL WHERE THE NEW PAVEMENT ABUTS THE EXISTING. THE COST OF ALL SAWCUTS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- WORK PAID FOR UNDER THE DRIVEWAY PAVEMENT REMOVAL ITEM SHALL ALSO INCLUDE THE PROTECTION, TEMPORARY REMOVAL AND STORAGE, OR CLEARING AND REMOVAL OF LANDSCAPE PLANTERS, DECORATIVE STONES, SHRUBS, RETAINING WALLS, AND OTHER FEATURES THAT INTERFERE WITH THE INSTALLATION OF THE NEW ROADWAY AND DRIVEWAYS.
- THE CONTRACTOR SHALL PROVIDE ADVANCE "FRESH OIL" SIGNS ON ALL ROADWAYS THAT HAVE RECEIVED PRIME MATERIAL AND SHALL REMAIN IN PLACE UNTIL PLACEMENT OF THE SURFACE COURSE.
- MATERIAL FOR THE BINDER AND SURFACE COURSES SHALL BE HOT MIX ASPHALT NSO AS INDICATED IN THE TYPICAL SECTIONS.
- ALL CONCRETE SHALL BE CLASS SI, WITH A MAXIMUM 5-INCH SLUMP AND NO CHLORINE ADDITIVES.
- ALL DRIVEWAY APRONS ARE TO BE WITH PORTLAND CEMENT CONCRETE TO THE RIGHT OF WAY LINE. CONCRETE DRIVEWAY PAVEMENT SHALL BE A MINIMUM OF 6-INCHES THICK FOR RESIDENTIAL DRIVEWAYS AND 8-INCH THICK FOR COMMERCIAL DRIVEWAYS. ALL CONCRETE DRIVEWAY PAVEMENT SHALL BE CONSTRUCTED ON A 4-INCH AGGREGATE BASE COURSE TYPE B (CA-6).

SURFACE IMPROVEMENT NOTES (CONT.)

- PCC SIDEWALKS SHALL BE A MINIMUM OF 5-INCHES THICK, WITH THE PORTION ACROSS DRIVEWAYS TO MATCH THE DRIVEWAY THICKNESS (6-INCHES FOR RESIDENTIAL DRIVEWAYS AND 8-INCHES FOR COMMERCIAL DRIVEWAYS).
- ALL SIDEWALK SHALL BE CONSTRUCTED ON A 2-INCH SAND CUSHION (FA-2), WHICH SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE SIDEWALK.
- SIDEWALKS SHALL HAVE A BROOM FINISH WITH TOOLED CONTROL JOINTS PLACED AT 5-FOOT CENTERS. FIBER EXPANSION JOINTS SHALL BE PLACED AT 50 FOOT CENTERS AND WHERE THE SIDEWALK ABUTS CURB OR EXISTING SIDEWALK, AND AT THE END OF A PREVIOUS PLACEMENT.
- WHERE SIDEWALK INTERSECTS DRIVEWAY APRONS, SEPARATE POURS SHALL BE MADE.
- FOR STEEL BARS CERTIFICATION, PLEASE CONTACT ABDUL DAHHAN, IDOT BUREAU OF MATERIALS, AT (847) 705-4363.

UTILITY NOTES

- SANITARY SEWER AND WATER MAIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, FIFTH EDITION, AND VILLAGE OF ALGONQUIN REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS IN THE FIELD.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL PRIVATE UTILITY RELOCATIONS WHERE NOTED ON THE PLANS OR WHERE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS.
- SEPARATION OF WATER AND SEWER MAIN SHALL MEET THE REQUIREMENTS OF ARTICLE 550.04 OF THE STANDARD SPECIFICATIONS.
- ALL TRENCHES UNDER OR WITHIN TWO FEET OF ANY EXISTING OR PROPOSED PAVEMENT, DRIVEWAYS, SIDEWALKS, OR BUILDINGS SHALL BE BACKFILLED WITH CA-6 GRANULAR MATERIAL MECHANICALLY COMPACTED IN SIX-INCH HORIZONTAL LAYERS. EACH LAYER SHALL BE EVENLY SPREAD, MOISTENED OR DRIED, IF NECESSARY, AND THEN TAMPED OR ROLLED UNTIL 90 PERCENT RELATIVE COMPACTION IS ACHIEVED.
- ALL STORM SEWER AND WATER MAIN SHALL BE BEDDED ON A MINIMUM 4" LAYER OF CA-6, CA-7, 8, 11, OR 13 CRUSHED STONE PLACED TO THE SPRINGLINE. ALL SANITARY SEWER SHALL BE BEDDED ON A 4" LAYER OF FA-6, PLACED TO 12-INCHES OVER THE TOP OF THE PIPE.
- ALL UTILITY STRUCTURES SHALL BE PRECAST REINFORCED CONCRETE IN ACCORDANCE WITH ASTM C478 AND THE APPLICABLE DETAILS. ALL JOINTS BETWEEN PRECAST ELEMENTS, ADJUSTING RINGS, AND FRAMES SHALL BE SEALED USING ROPE STYLE BUTYL RUBBER JOINT SEALANT. A MINIMUM OF 3 INCHES AND A MAXIMUM OF 8 INCHES OF ADJUSTING RINGS MAY BE USED. THE TOP ADJUSTMENT RING FOR STRUCTURES LOCATED IN PAVEMENT AREAS SHALL BE AN EAST JORDAN GNR RECYCLED RUBBER INFRA RISER RING, OR APPROVED EQUAL.
- ALL FRAMES SHALL BE SEALED TO THE MANHOLE OR VALVE VAULT BY USING A HEAT SHRINKABLE WRAP AROUND SLEEVE. SEALS SHALL BE AS MANUFACTURED BY CRETEX OR CANUSA WRAPID SEAL MANHOLE ENCAPSULATION SYSTEM OR APPROVED EQUAL. WHERE FLAT SLAB TOPS ARE REQUIRED, A RING SHALL BE CAST INTO THE SLAB FOR THIS PURPOSE.
- FRAMES AND LIDS SHALL BE AS FOLLOWS:
MANHOLES AND VALVE VAULTS
EAST JORDAN NO. 1050-Z1, OR APPROVED EQUAL, WITH 1" CONCEALED PICKHOLE, LETTERED "STORM", "WATER", OR "SANITARY", AS APPROPRIATE, WITH VILLAGE OF ALGONQUIN LOGO AND IN ACCORDANCE WITH THE VILLAGE STANDARD DETAILS. SANITARY LIDS SHALL INCLUDE A SEAL GASKET (TYPE 1).
INLETS AND CATCH BASINS
IN LANDSCAPE AREAS: EAST JORDAN NO. 6527, OR APPROVED EQUAL (TYPE B).
IN HIGH VELOCITY FLOW LANDSCAPE AREAS (WHERE SPECIFIED): EAST JORDAN NO. 6508, OR APPROVED EQUAL.
IN CURB AND GUTTER: EAST JORDAN NO. 7010 OR APPROVED EQUAL, WITH TYPE T1 BACK AND TYPE M3 SINUSOIDAL GRATE. USE TYPE M4 DIRECTIONAL VANE GRATE WHERE GRADE IS GREATER THAN OR EQUAL TO 3 PERCENT (TYPE 3).
- ALL DRAINAGE STRUCTURES SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE. THIS SHALL BE INCIDENTAL TO THE COST OF THE STRUCTURE.
- INDICATED PIPE LENGTHS ARE TO THE INSIDE WALL OF THE STRUCTURES.
- STATION, OFFSET, AND RIM ELEVATIONS FOR ALL CURB-LINE STRUCTURES ARE INDICATED AT THE EDGE OF PAVEMENT. ALL OTHER STRUCTURES ARE INDICATED AT THE CENTER.
- UNLESS OTHERWISE NOTED, ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE IN ACCORDANCE WITH ASTM C76, WITH RUBBER GASKETED JOINTS IN ACCORDANCE WITH ASTM C443.
- PIPE UNDERDRAINS SHALL BE PERFORATED PVC CONFORMING TO AASHTO M 278. PIPE SHALL BE WRAPPED WITH A LAYER OF MIRIFI OR APPROVED EQUAL GEOTEXTILE FABRIC AND BACKFILLED WITH WASHED CRUSHED STONE.
- EXISTING RESIDENTIAL SUMP PUMP DISCHARGE LINES AND ANY DRAIN TILES ENCOUNTERED DURING INSTALLATION OF THE STORM SEWERS SHALL BE CORE DRILLED AND CONNECTED TO THE NEW SEWER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- UNLESS DIRECTED OTHERWISE, ALL FRAMES AND LIDS AND VALVES FROM UTILITY STRUCTURES THAT ARE REMOVED OR ABANDONED SHALL BE TURNED OVER TO THE ALGONQUIN PUBLIC WORKS DEPARTMENT.
- SANITARY SEWER MATERIALS SHALL BE AS FOLLOWS:
DEPTHS TO 15 FEET: PVC SDR-26, IN ACCORDANCE WITH ASTM D-3034, WITH ELASTOMERIC SEAL JOINTS IN ACCORDANCE WITH ASTM D-3212. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D-2321, "UNDERGROUND INSTALLATION OF FLEXIBLE THERMOPLASTIC SEWER PIPE".
DEPTHS OVER 15 FEET: DUCTILE IRON PIPE, CLASS 52 IN ACCORDANCE WITH AWWA C151, BITUMINOUS COATED AND EPOXY LINED, WITH AWWA C111 PUSH-ON JOINTS.
- SANITARY TESTING SHALL BE IN ACCORDANCE WITH SECTION 31-1.11 OF THE STANDARD SPECIFICATIONS AND VILLAGE REQUIREMENTS; THE ENTIRE LENGTH OF THE PIPE SHALL BE DEFLECTION TESTED FROM MANHOLE TO MANHOLE BY PULLING A "GO-NO GO" MANDREL THROUGH THE PIPE. IN ADDITION, ALL PVC SANITARY SEWER MAINS SHALL BE REQUIRED TO PASS AN AIR PRESSURE TEST. ALL SANITARY MANHOLES SHALL BE VACUUM TESTED FOR LEAKAGE IN ACCORDANCE WITH ASTM C-1244 AND DIRECTED BY THE ENGINEER OR UTILITIES SUPERINTENDENT. ALL SANITARY MAINS SHALL BE TESTED ONE YEAR AFTER INSTALLATION AND PRIOR TO FINAL ACCEPTANCE BY THE VILLAGE. THE ORIGINAL VIDEOTAPE SHALL BECOME THE PROPERTY OF THE VILLAGE. ALL SANITARY TESTING SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE SANITARY SEWER.
- WATER MAINS SHALL BE DUCTILE IRON PIPE, CLASS 52, IN ACCORDANCE WITH AWWA C151, WITH BITUMINOUS COATING AND CEMENT LINING IN ACCORDANCE WITH AWWA C104. PIPE JOINTS SHALL BE MECHANICAL OR PUSH-ON IN ACCORDANCE WITH AWWA C111. ALL WATER MAIN INSTALLED WITH NEW VALVES AND HYDRANTS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE VALVE OR HYDRANT.
- TEES, BENDS, REDUCERS, AND OTHER FITTINGS SHALL BE DUCTILE IRON MECHANICAL JOINT, BITUMINOUS COATED AND CEMENT LINED, FURNISHED WITH RESTRAINED JOINT (MEGALUG OR APPROVED EQUAL) IN ACCORDANCE WITH AWWA C111.
- VALVES 10" AND OVER SHALL BE LOCATED WITHIN A MINIMUM 60" DIAMETER VAULT. PIPE PENETRATION SHALL BE SEALED USING FLEXIBLE RUBBER CONNECTOR WITH STAINLESS STEEL BANDS, IN ACCORDANCE WITH ASTM C443 AND C923. VALVES SHALL BE MUELLER A-2360 OR APPROVED EQUAL RESILIENT WEDGE GATE VALVES. ALL FITTINGS SHALL BE SWABBED WITH A CHLORINE SOLUTION OF AT LEAST 50 MG/L, TO BE TESTED AND APPROVED BY THE ENGINEER PRIOR TO USE.
- FIRE HYDRANTS SHALL BE WATEROUS PACER WB67-250, OR APPROVED EQUAL, IN ACCORDANCE WITH VILLAGE STANDARDS, WITH A 6" AUXILIARY VALVE AND VALVE BOX.
- ONLY VILLAGE OF ALGONQUIN WATER DEPARTMENT PERSONNEL OR PERSONS AUTHORIZED BY THE UTILITY SUPERINTENDENT OR DIRECTOR OF PUBLIC WORKS ARE PERMITTED TO OPERATE VALVES CONNECTED TO THE VILLAGE WATER SYSTEM.
- ALL EXISTING CULVERT PIPES SHALL BE REMOVED AND DISPOSED.

EROSION CONTROL AND RESTORATION NOTES

- SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL, IDOT HIGHWAY STANDARDS AND VILLAGE REQUIREMENTS. IN CASES OF CONFLICT, THE MORE STRINGENT PROVISION SHALL GOVERN.
- THE CONTRACTOR SHALL BE THE RESPONSIBLE PARTY FOR EROSION CONTROL FOR THE DURATION OF CONSTRUCTION.
- THE EROSION CONTROL SHOWN IS THE MINIMUM REQUIRED FOR THE SITE. THE VILLAGE OF ALGONQUIN OR ITS GOVERNING BODIES MAY REQUIRE ADDITIONAL MEASURES BE INSTALLED AT ANY TIME DURING THE COURSE OF CONSTRUCTION.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS, AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- ALL SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE DISTURBANCE OF UPLAND AREAS.
- ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
- ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY, OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. THIS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- IF DEWATERING DEVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN.
- DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT SEEDING WITHIN 7 DAYS OF THE COMPLETION OF GRADING IN THAT AREA. TEMPORARY SEEDING SHALL BE IN ACCORDANCE WITH IDOT SECTION 280.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING THE DUST AND AIR-BORNE DIRT GENERATED BY CONSTRUCTION ACTIVITIES. THE ENGINEER MAY REQUIRE THE IMPLEMENTATION OF APPROPRIATE DUST CONTROL MEASURES, INCLUDING WATERING, AS SPECIFIED IN SECTION 107.36 OF THE STANDARD SPECIFICATIONS. THE COST OF ANY SUCH DUST CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- DRAINAGE STRUCTURES LOCATED IN TURF AREAS SHALL BE PROTECTED BY STAKED ROLLED COIR FIBER LOGS SURROUNDING THE PERIMETER OF THE STRUCTURE, WHICH SHALL BE LEFT IN PLACE UNTIL THE VEGETATION IS ESTABLISHED. INLETS AND CATCH BASINS IN ROADWAY AREAS SHALL BE PROTECTED BY INLET FILTERS IN ACCORDANCE WITH THE APPLICABLE SPECIAL PROVISION.
- LANDSCAPE RESTORATION SHALL CONSIST OF FURNISHING AND PLACING A MINIMUM 4-INCH LAYER OF TOPSOIL AND CLASS 1A SEED.
- THE SEEDING SHALL BE GUARANTEED FOR A PERIOD OF ONE FULL GROWING SEASON (APRIL TO OCTOBER) FROM THE DATE OF SUBSTANTIAL COMPLETION OF THE TOTAL PROJECT AS ESTABLISHED BY THE ENGINEER FOR LOSS DUE TO FAULTY MATERIALS, WORKMANSHIP OR PROCEDURE.
- AN EROSION CONTROL BLANKET SHALL BE PLACED OVER THE SEEDED AREAS IMMEDIATELY TO PREVENT EROSION. THE BLANKET SHALL BE AN EXCELSTOR BLANKET CONFORMING TO SECTION 251 OF THE STANDARD SPECIFICATIONS.

EROSION CONTROL CONSTRUCTION SEQUENCE:

- CONTRACTOR SHALL INSTALL SILT FENCE, TEMPORARY DITCH CHECKS, AND INLET AND PIPE PROTECTION AT EXISTING STRUCTURES AND AT LOCATIONS INDICATED PRIOR TO THE START OF EXCAVATION AND PAVEMENT REMOVAL.
- CONTRACTOR SHALL PROVIDE INLET PROTECTION AROUND ALL PROPOSED OPEN-LIDDED STORM STRUCTURES IMMEDIATELY UPON INSTALLATION.
- CONTRACTOR SHALL PROVIDE TEMPORARY SEEDING OR PERMANENT SEEDING AND EROSION CONTROL BLANKET WITHIN 7 DAYS OF THE COMPLETION OF GRADING IN ANY AREA.

INSPECTION/MAINTENANCE SCHEDULE:

- CONTRACTOR SHALL INSPECT SILT FENCE AND INLET PROTECTION MEASURES WEEKLY AND WITHIN 24 HOURS AFTER ANY STORM OF 0.5 INCHES OR GREATER RAINFALL. ANY ACCUMULATED SEDIMENT SHALL BE REMOVED IMMEDIATELY FOLLOWING INSPECTION.
- CONTRACTOR SHALL CONDUCT STREET SWEEPING AS NEEDED AND AS DIRECTED BY THE ENGINEER TO REMOVE ACCUMULATED SEDIMENT.
- CONTRACTOR SHALL PROTECT SEEDED AREAS FROM VEHICULAR AND FOOT TRAFFIC.
- ANY AREAS WHERE SEEDLING EMERGENCE IS POOR OR EROSION OCCURS SHALL BE RESEDED.

REVISIONS		NAME	DATE
NO.	DESCRIPTION		

HANSON ROAD IMPROVEMENTS
COUNTY LINE ROAD TO EDGEWOOD DRIVE

GENERAL NOTES

DATE: 12-18-07 DRAWN BY: AJR
CHECKED BY: MAY

GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC.
CHICAGO, ILLINOIS

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	06-00071-00-PV	McHENRY	31	3

ILLINOIS PROJECT
CONTRACT NO. 63001

SUMMARY OF QUANTITIES

ITEM NUMBER	PAY ITEM DESCRIPTION	UNITS	TOTAL QUANTITY	ROADWAY 80% FEDERAL 20% LOCAL QUANTITY	UTILITY 100% LOCAL QUANTITY (NON-PARTICIPATING ITEM)
20101000	TEMPORARY FENCE	FOOT	170	170	
20101200	TREE ROOT PRUNING	EACH	11	11	
20200100	EARTH EXCAVATION	CU YD	2770	2770	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1362	1362	
20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	512	512	
20800150	TRENCH BACKFILL	CU YD	807	395	412
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	1500	1500	
21101615	TOPSOIL FURNISH AND PLACE, 4 INCH	SQ YD	3850	3850	
25000110	SEEDING, CLASS 1A	ACRE	0.8	0.8	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	72	72	
25000500	PHOSPHOROUS FERTILIZER NUTRIENT	POUND	72	72	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	72	72	
25100630	EROSION CONTROL BLANKET	SQ YD	3850	3850	
28000300	TEMPORARY DITCH CHECKS	EACH	10	10	
28000400	PERIMETER EROSION BARRIER	FOOT	2667	2667	
28000510	INLET FILTERS	EACH	27	27	
31101400	SUB-BASE GRANULAR MATERIAL, TYPE B, 6"	SQ YD	5872	5872	
35101400	AGGREGATE BASE COURSE, TYPE B	TON	462	462	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	140	140	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLONS	2969	2969	
40600300	AGGREGATE (PRIME COAT)	TON	28	28	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	47	47	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	118	118	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	50	50	
40701841	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 8"	SQ YD	5079	5079	
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	586	586	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	485	485	
42400800	DETECTABLE WARNINGS	SQ FT	64	64	
44000100	PAVEMENT REMOVAL	SQ YD	4511	4511	
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	395	395	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	382	382	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	251	251	
44000600	SIDEWALK REMOVAL	SQ FT	63	63	
44201711	CLASS D PATCHES, TYPE IV, 5 INCH	SQ YD	128	128	
44300300	AREA REFLECTIVE CRACK CONTROL TREATMENT, SYSTEM A	SQ YD	5079	5079	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	97	97	
48301000	PROTECTIVE COAT	SQ YD	1333	1333	
50105220	PIPE CULVERT REMOVAL	FOOT	302	302	
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	1310	1310	
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	96	96	
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	268	268	
550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	19	19	
* 56105200	WATER VALVES 12"	EACH	2		2
* 56200300	WATER SERVICE LINE 1"	FOOT	430		430
* 56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	4		4
60107600	PIPE UNDERDRAINS 4"	FOOT	567	567	
60200305	CATCH BASINS, TYPE A, 4' DIAMETER, TYPE 3 FRAME AND GRATE	EACH	9	9	
60201330	CATCH BASINS, TYPE A, 4' DIAMETER, TYPE 23 FRAME AND GRATE	EACH	1	1	
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	
60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	8	8	
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2	
60228110	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4		4
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	7	7	
60236200	INLETS, TYPE A, TYPE 8 FRAME AND GRATE	EACH	2	2	
60248900	VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2		2
60603800	COMBINATION CURB AND GUTTER, TYPE B-6.12	FOOT	2690	2690	

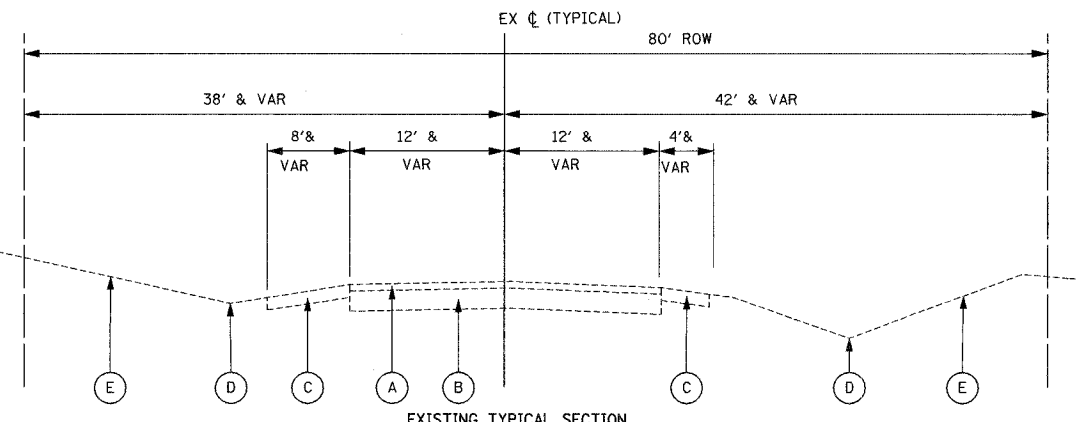
ITEM NUMBER	PAY ITEM DESCRIPTION	UNITS	TOTAL QUANTITY	ROADWAY 80% FEDERAL 20% LOCAL QUANTITY	UTILITY 100% LOCAL QUANTITY (NON-PARTICIPATING ITEM)
60605000	COMBINATION CURB AND GUTTER, TYPE B-6.24	FOOT	118	118	
67100100	MOBILIZATION	L SUM	1	1	
70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1	
* 70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2466	2466	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	288	288	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	130	130	
* X0321558	SANITARY MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	1	
* XX001386	SANITARY SEWERS, PVC 8"	FOOT	879		879
* XX001464	SANITARY SEWERS, PVC 6"	FOOT	105		105
XX004927	BITUMINOUS PATH REMOVAL	SQ FT	660	660	

NOTE: A SHRINKAGE FACTOR OF 15% WAS USED FOR EARTHWORK CALCULATIONS.

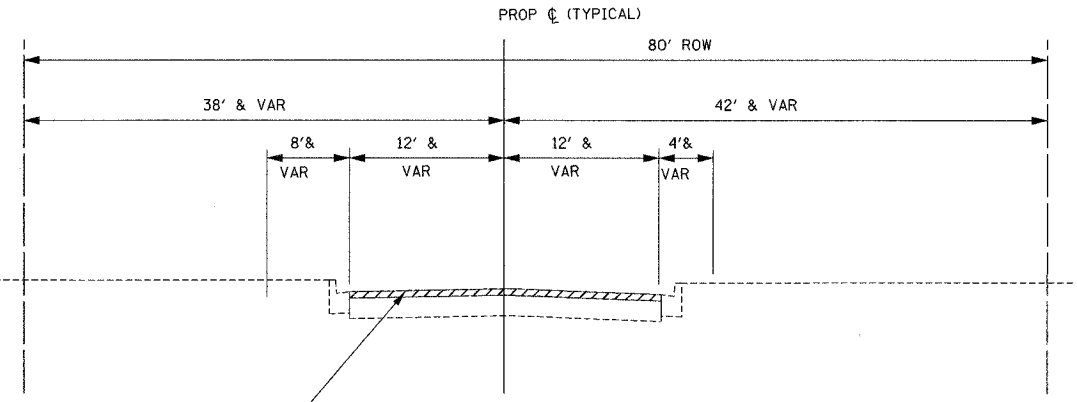
* SPECIALTY ITEMS

REVISIONS		HANSON ROAD IMPROVEMENTS COUNTY LINE ROAD TO EDGEWOOD DRIVE SUMMARY OF QUANTITIES DATE: 12-18-07 DRAWN BY: AJR CHECKED BY: MAY GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC. CHICAGO, ILLINOIS
NAME	DATE	

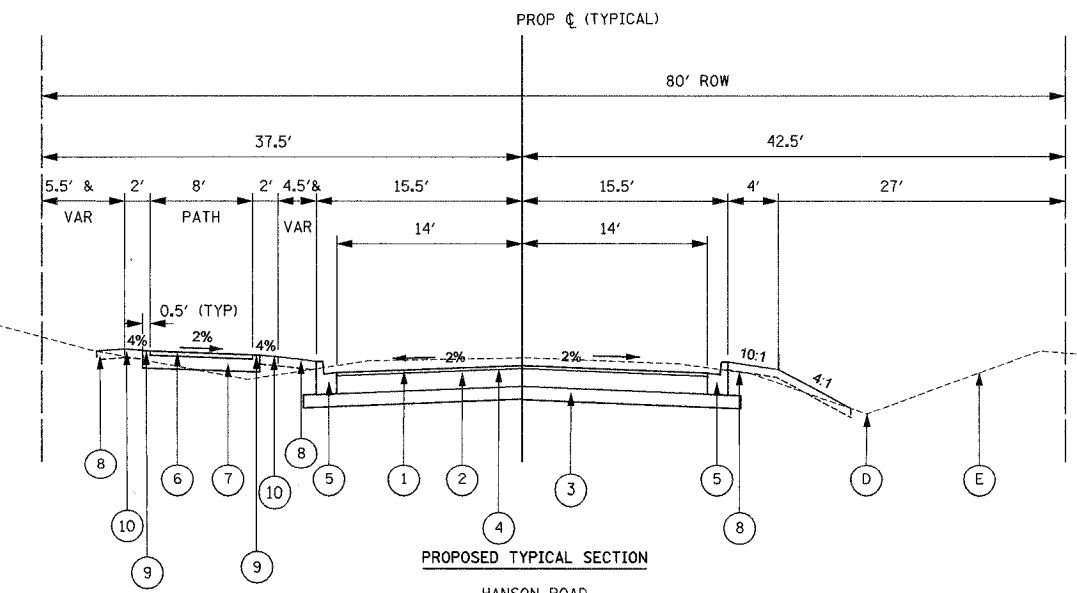
F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	06-00071-00-PV	McHENRY	31	4
ILLINOIS PROJECT				
CONTRACT NO. 63001				



EXISTING TYPICAL SECTION
HANSON ROAD
COUNTY LINE ROAD TO EDGEWOOD DRIVE
LOOKING NORTH
STA. 600+73 TO 615+15



PROPOSED TYPICAL SECTION
HANSON ROAD
COUNTY LINE ROAD TO EDGEWOOD DRIVE
LOOKING NORTH
STA. 600+73 TO 601+20



PROPOSED TYPICAL SECTION
HANSON ROAD
COUNTY LINE ROAD TO EDGEWOOD DRIVE
LOOKING NORTH
STA. 601+20 TO 615+15

LEGEND

- (A) EXISTING HOT-MIX ASPHALT PAVEMENT: 3 - 4" (REMOVAL TO BE PAID AS PAVEMENT REMOVAL)
- (B) EXISTING GRANULAR BASE COURSE: 9" - 20" (REMOVAL TO BE PAID AS EARTH EXCAVATION)
- (C) EXISTING GRAVEL SHOULDERS
- (D) EXISTING SWALE
- (E) EXISTING LANDSCAPING

- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50, 2" (ROADWAY)
- (2) HOT-MIX ASPHALT BINDER COURSE, IL-19, N50 (2 LIFTS), 6"
- (3) SUB-BASE GRANULAR MATERIAL, TYPE B, 6"
- (4) AREA REFLECTIVE CRACK CONTROL TREATMENT
- (5) COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.12
- (6) HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50, 2" (BIKE PATH)
- (7) AGGREGATE BASE COURSE, TYPE B, 6"
- (8) LANDSCAPE RESTORATION - 4" TOPSOIL (FURNISH AND PLACE), CLASS 1A SEEDING & EROSION CONTROL BLANKET
- (9) 0.5' WIDE AGGREGATE SHOULDER, TYPE B, 8"
- (10) 1.5' WIDE TURF GRADED SHOULDER

MIX REQUIREMENT CHART

DESCRIPTION	MIXTURE TYPE	AC TYPE	AIR VOIDS
HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 8"	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50 (IL-9.5 mm)	PG 64-22	4% @ 50 GYR.
	HOT-MIX ASPHALT BINDER COURSE, IL-19, N50	*PG 64-22/58-22	4% @ 50 GYR.
HMA RESURFACING	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50 (IL-9.5 mm)	PG 64-22	4% @ 50 GYR.
HMA PATH	HOT-MIX ASPHALT CONCRETE SURFACE COURSE, MIX C, N50 (IL-9.5 mm)	PG 64-22	4% @ 50 GYR.
CLASS D PATCH	CLASS D PATCHES, TYPE IV, 5" (HMA BINDER, IL-19 mm)	*PG 64-22/58-22	4% @ 70 GYR.

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

* NOTE: PGE SUBGRADE IS REQUIRED FROM APPROXIMATE STA. 610+75 TO STA. 615+15. ACTUAL LIMITS AND ANY ADDITIONAL AREAS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

POROUS GRANULAR EMBANKMENT, SUBGRADE (PGES) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT ARE CONSIDERED TO BE UNSTABLE OR SUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE SAME TIME OF CONSTRUCTION BY A QUALIFIED SOILS INSPECTOR. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND IN CONJUNCTION WITH THE IDOT SUBGRADE STABILITY MANUAL (REV. 2005).

GEOTECHNICAL FABRIC FOR GROUND STABILIZATION HAS BEEN PROVIDED FOR USE IN UNDERCUT AREAS. THE ACTUAL USE OF GEOTECHNICAL FABRIC WILL ALSO BE DETERMINED IN THE FIELD.

REVISIONS	
NAME	DATE

HANSON ROAD IMPROVEMENTS
COUNTY LINE ROAD TO EDGEWOOD DRIVE
TYPICAL SECTIONS

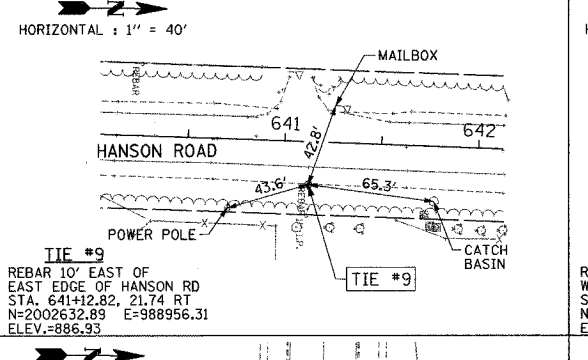
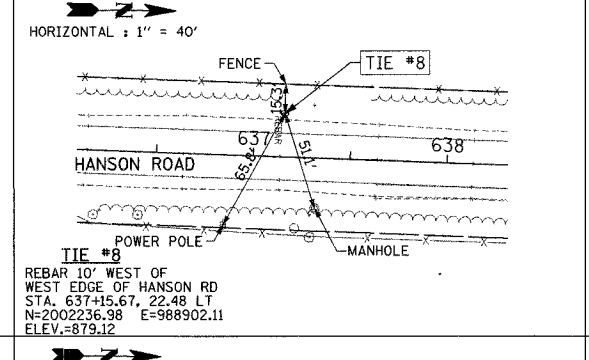
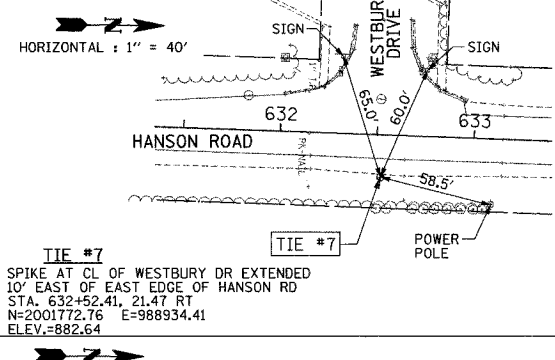
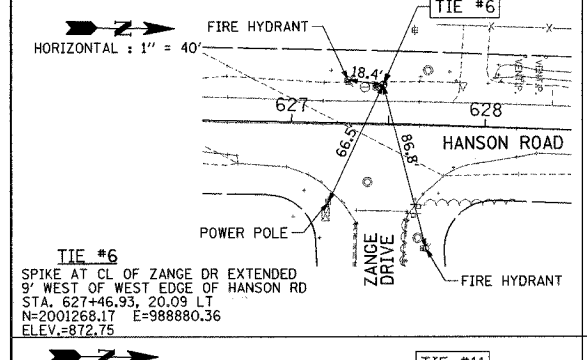
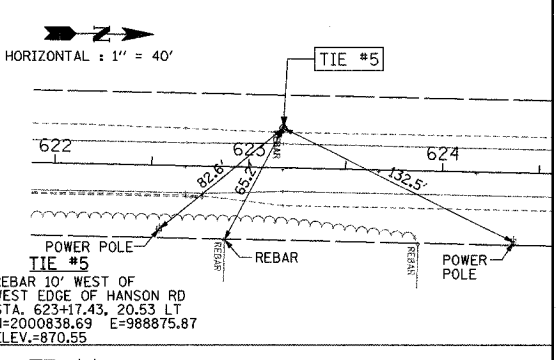
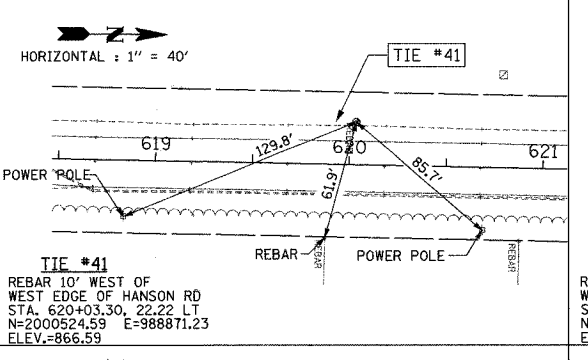
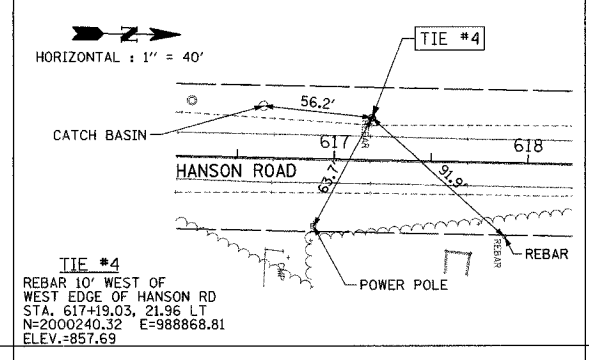
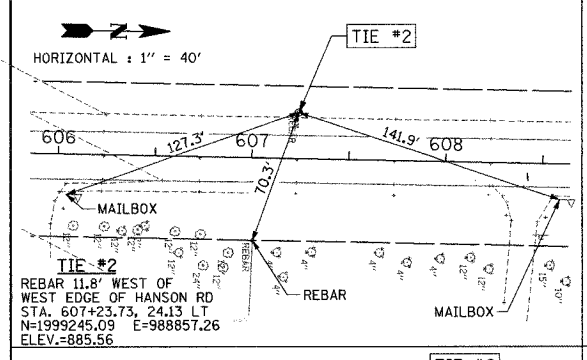
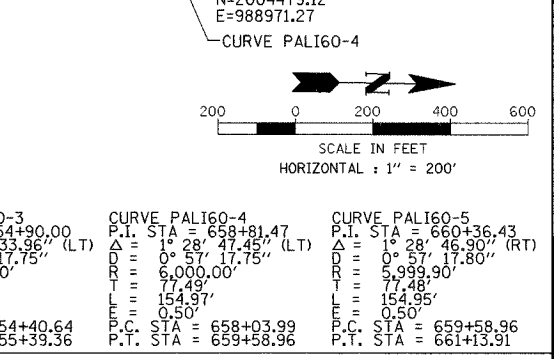
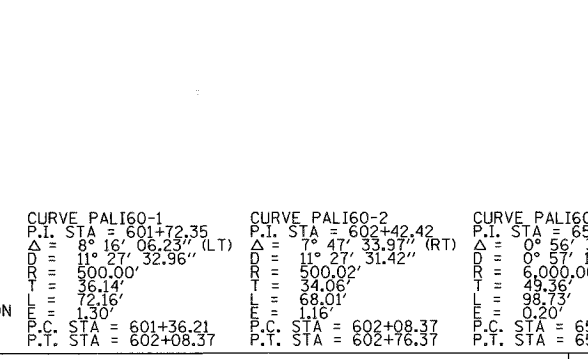
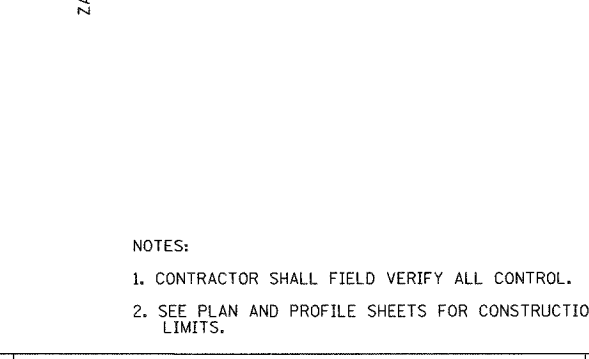
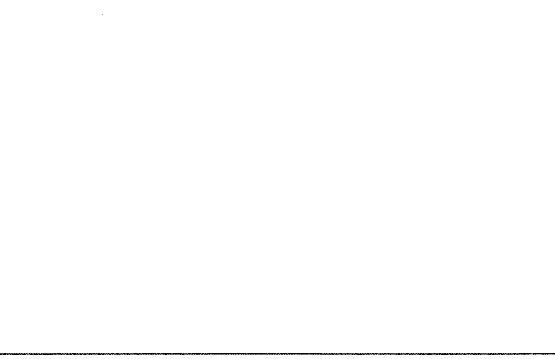
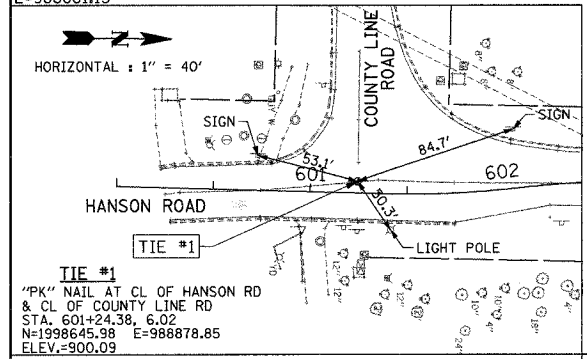
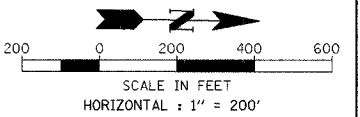
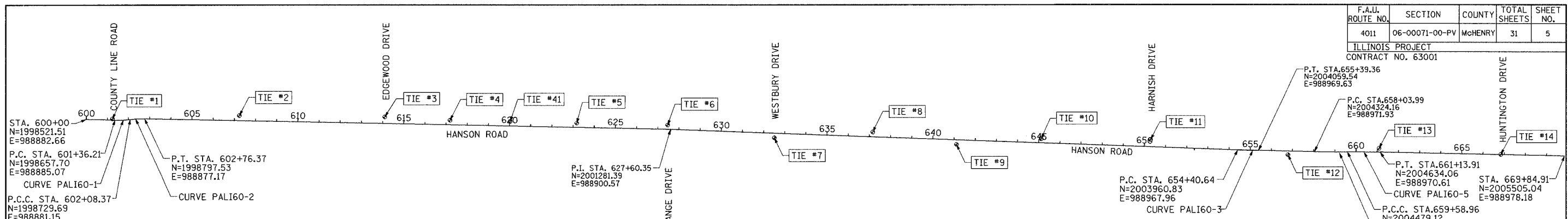
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CHECKED BY: MAY



GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC.
CHICAGO, ILLINOIS

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	06-00071-00-PV	McHENRY	31	5

ILLINOIS PROJECT
CONTRACT NO. 63001



- NOTES:
1. CONTRACTOR SHALL FIELD VERIFY ALL CONTROL.
2. SEE PLAN AND PROFILE SHEETS FOR CONSTRUCTION LIMITS.

CURVE	P.I. STA	P.C. STA	P.T. STA	P.C.C. STA
CURVE PALI60-1	601+72.35	601+36.21	602+08.37	602+08.37
CURVE PALI60-2	602+42.42	602+08.37	602+76.37	602+76.37
CURVE PALI60-3	654+90.00	654+40.64	655+39.36	655+39.36
CURVE PALI60-4	658+81.47	658+03.99	659+58.96	659+58.96
CURVE PALI60-5	660+36.43	661+13.91	661+13.91	661+13.91

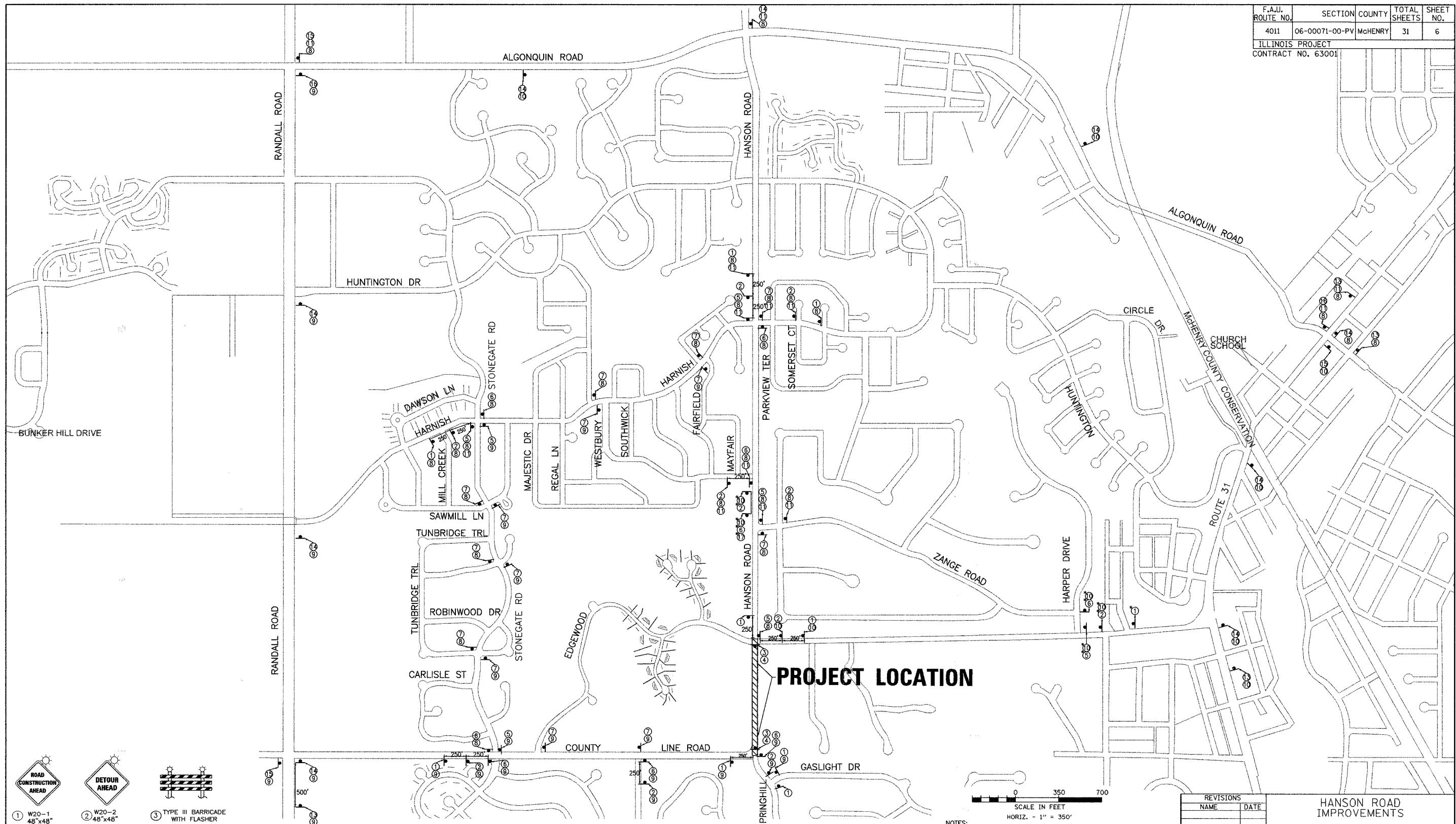
REVISIONS	NAME	DATE

HANSON ROAD IMPROVEMENTS
COUNTY LINE ROAD TO EDGEWOOD DRIVE
ALIGNMENT AND TIES

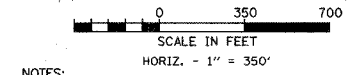
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DRAWN BY: AJR
CHECKED BY: MAY

GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC.
CHICAGO, ILLINOIS

F.A.J. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	06-00071-00-PV	McHENRY	31	6
ILLINOIS PROJECT				
CONTRACT NO. 63001				



1 W20-1 48"x48"	2 W20-2 48"x48"	3 TYPE III BARRICADE WITH FLASHER
4 R11-4 60"x30"	5 M4-9R 30"x24"	6 M4-9L 30"x24"
7 M4-9 30"x30"	8 30"x24"	9 30"x24"
10 30"x18"	11 30"x24"	12 30"x24"
13 W20-2 48"x48"	14 M4-9 30"x30"	15 M4-9L 30"x24"
16 M4-9R 30"x24"	17 30"x24"	



- NOTES:
- ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE APPLICABLE IDOT HIGHWAY STANDARDS.
 - CONTRACTOR SHALL MAINTAIN ACCESS TO ALL RESIDENCES AND SIDE ROADS FOR THE DURATION OF THE PROJECT.
 - CONTRACTOR SHALL MAINTAIN ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES.
- * SIGNS INDICATED THUS ONLY BE USED DURING RECONSTRUCTION OF HANSON AND EDGEWOOD INTERSECTION AND UTILITY WORK NORTH OF EDGEWOOD.

REVISIONS	
NAME	DATE

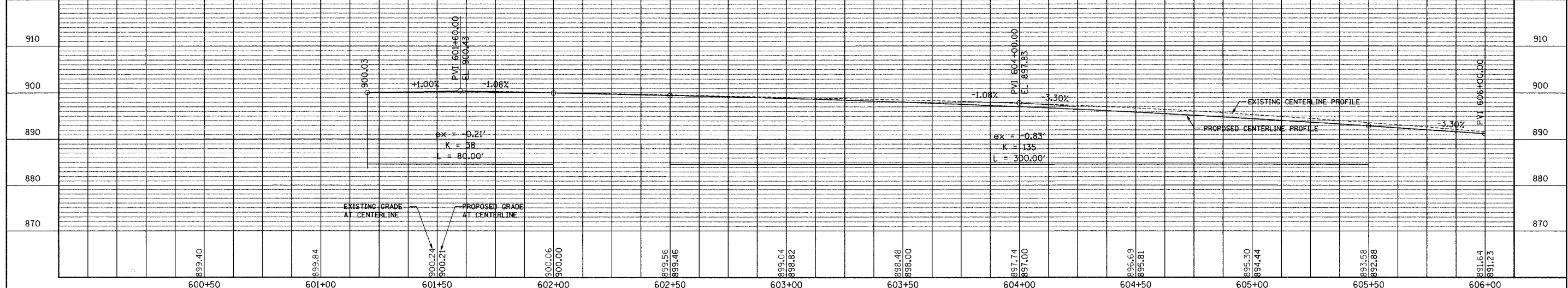
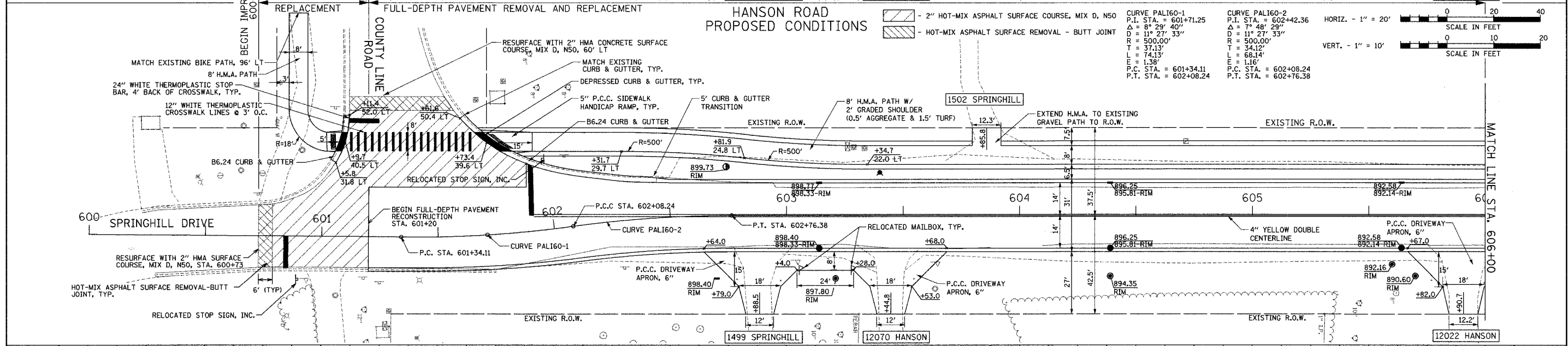
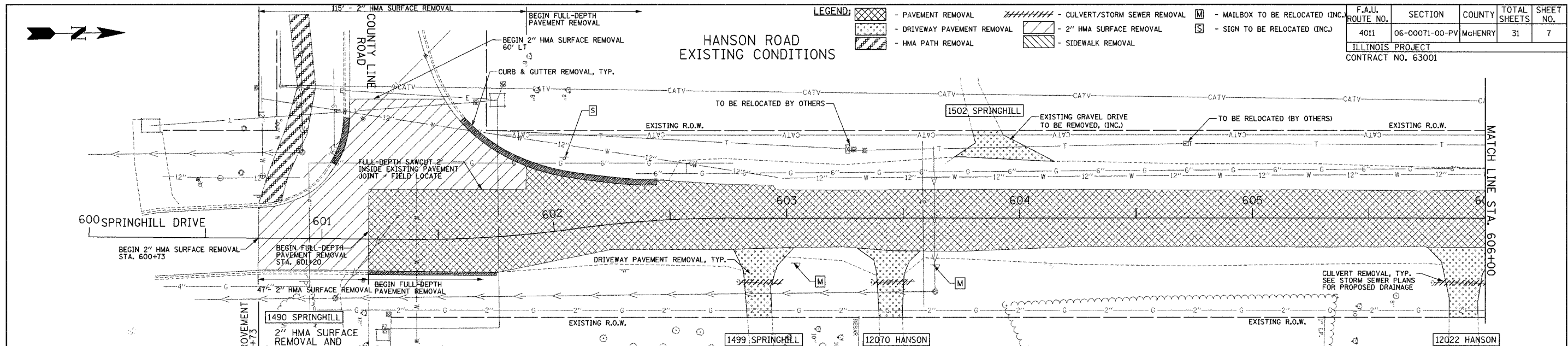
HANSON ROAD IMPROVEMENTS
COUNTY LINE ROAD TO EDGEWOOD DRIVE
TRAFFIC CONTROL PLAN

DRAWN BY: AJR
CHECKED BY: MAY

DATE: 12-18-07

GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC.
CHICAGO, ILLINOIS

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	06-00071-00-PV	McHENRY	31	7
ILLINOIS PROJECT				
CONTRACT NO. 63001				



PLAN AND PROFILE

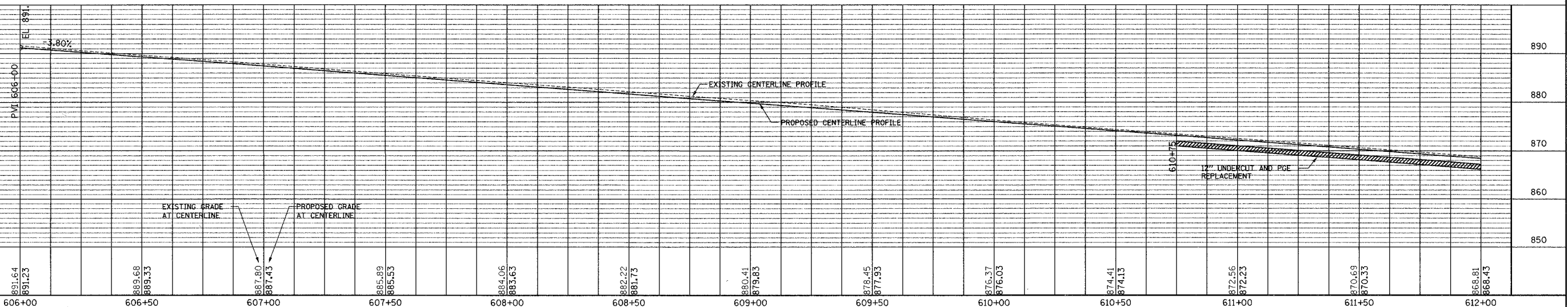
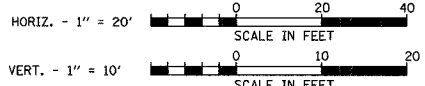
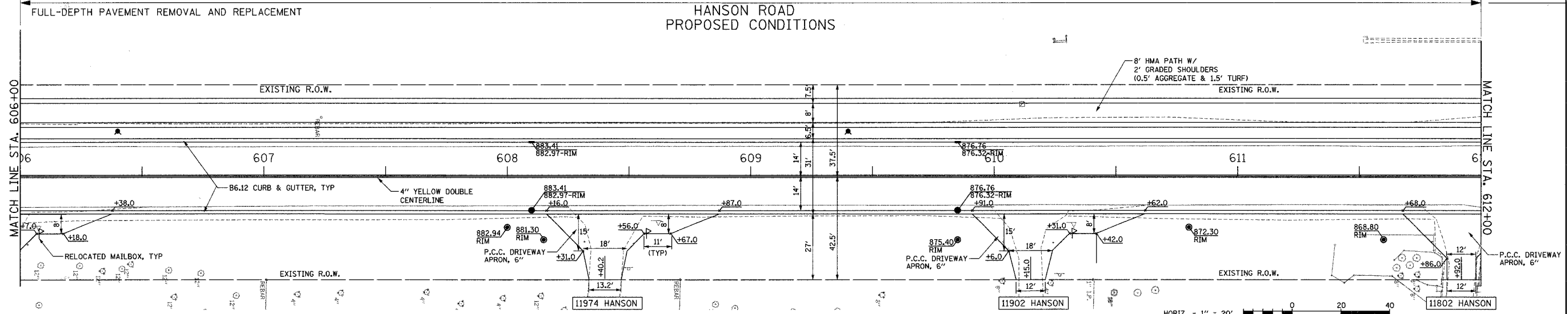
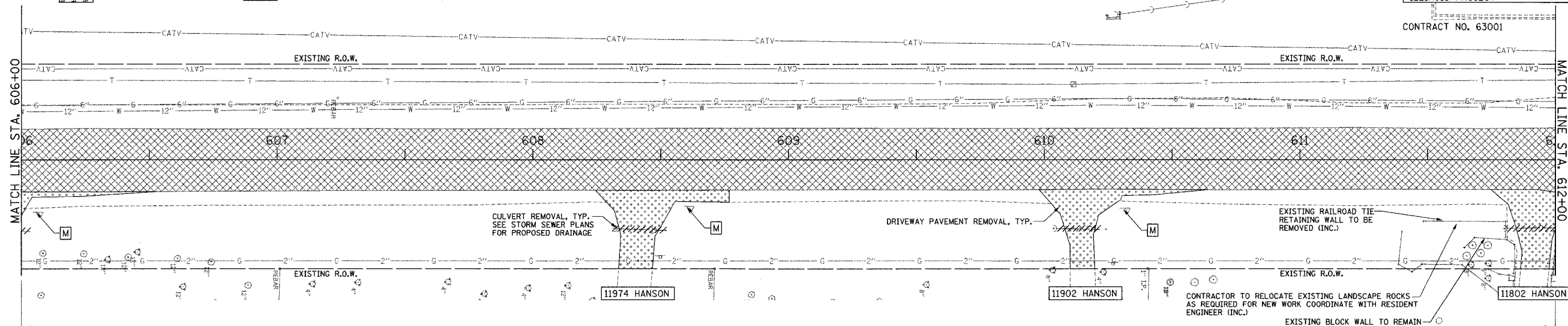
HANSON ROAD STA. 600+00 TO STA. 606+00

LEGEND:

	- PAVEMENT REMOVAL		- CULVERT/STORM SEWER REMOVAL		- MAILBOX TO BE RELOCATED
	- DRIVEWAY PAVEMENT REMOVAL		- 2" HMA SURFACE REMOVAL		- SIGN TO BE RELOCATED (INC.)
	- HMA PATH REMOVAL		- SIDEWALK REMOVAL		

**HANSON ROAD
EXISTING CONDITIONS**

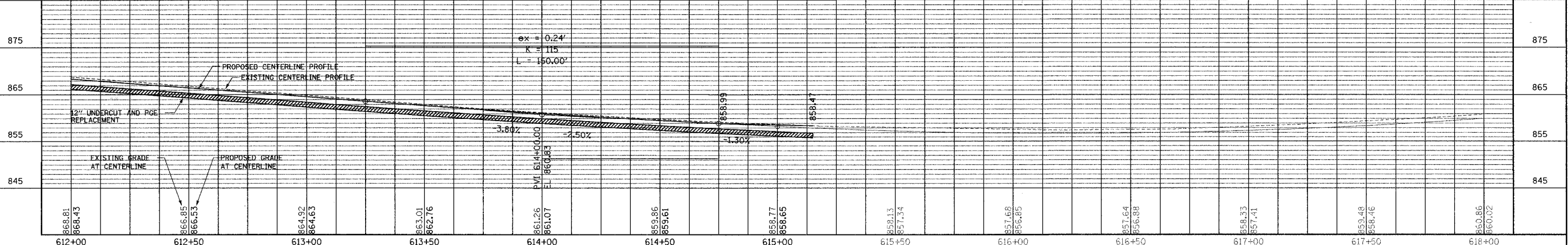
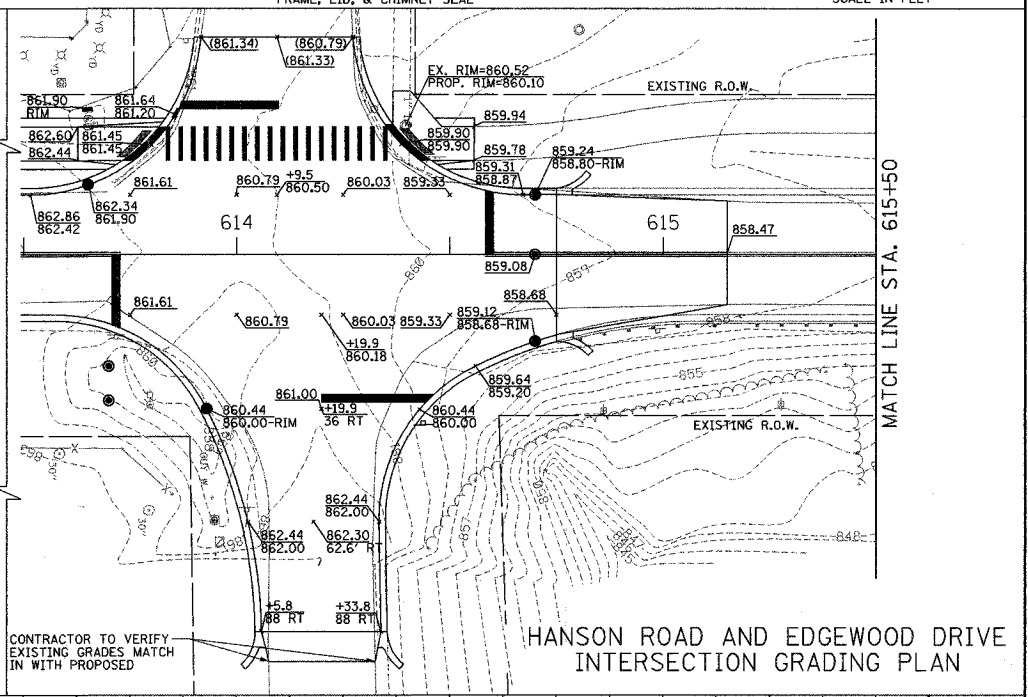
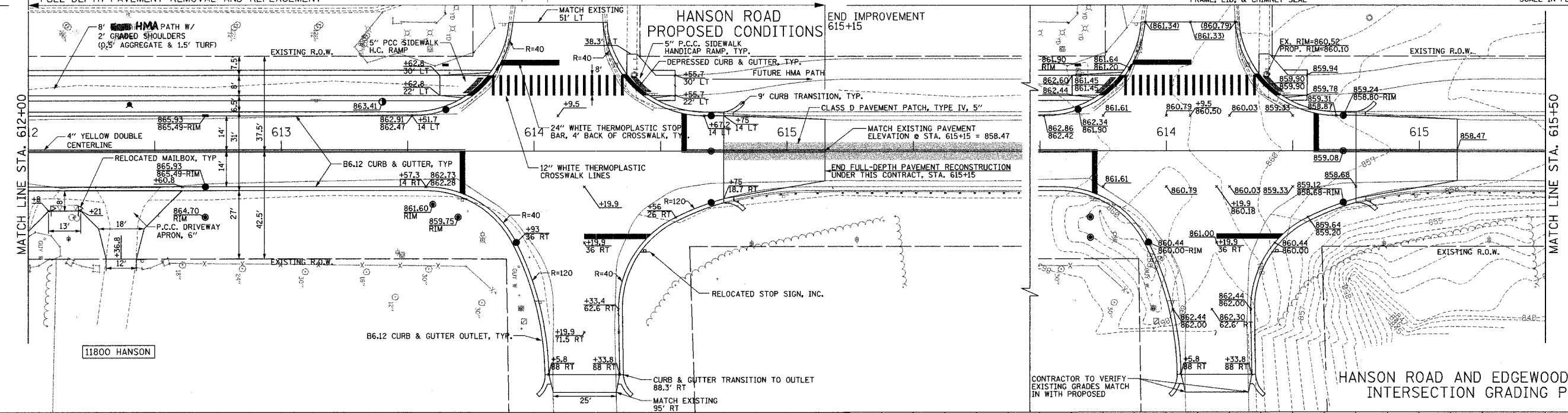
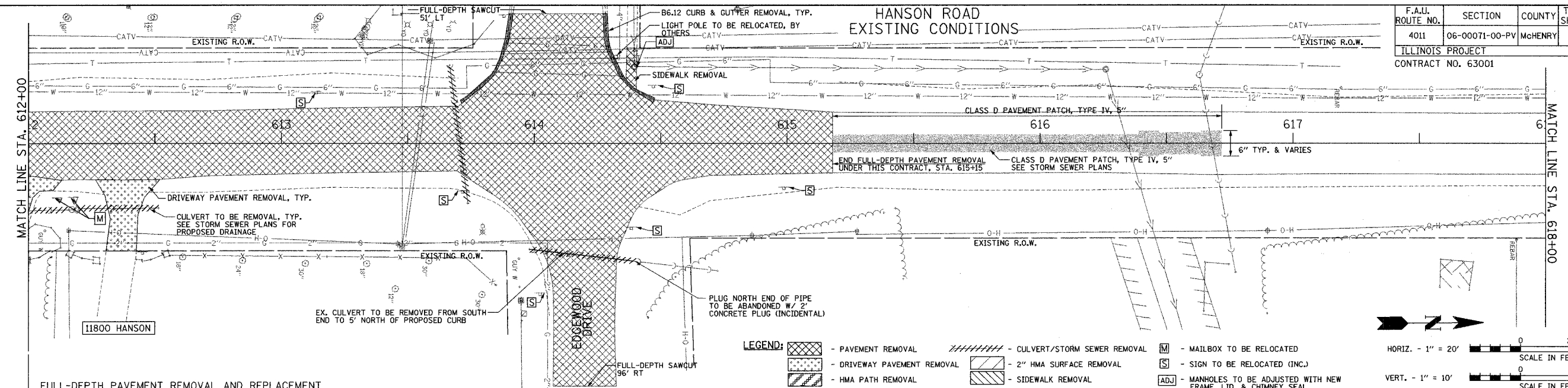
F.A.J. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	06-00071-00-PV	McHENRY	31	8
ILLINOIS PROJECT				
CONTRACT NO. 63001				



PLAN AND PROFILE

HANSON ROAD STA. 606+00 TO STA. 612+00

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	06-00071-00-PV	McHENRY	31	9
ILLINOIS PROJECT				
CONTRACT NO. 63001				



PLAN AND PROFILE HANSON ROAD STA. 612+00 TO STA. 618+00

CONFLICT RESOLUTION CHARTS

PIPE NO	LOCATION		UPPER PIPE		LOWER PIPE	
	STATION	OFFSET	TYPE	BOTTOM ELEVATION	TYPE	TOP ELEVATION
AM-2	603+58.8	26.7 FT RT	PROP 12" STORM	893.07	EX ELECTRIC	892.95
AM-2	603+63.8	26.7 FT RT	PROP 12" STORM	892.94	EX 8" SANITARY	892.27
AM-2	603+75.0	26.6 FT RT	PROP 12" STORM	892.65	PROP 1" WATER SER	890.39
A-3A	605+67.5	21.0 FT RT	PROP 12" STORM	887.42	PROP 8" SANITARY	883.56

NOTES:

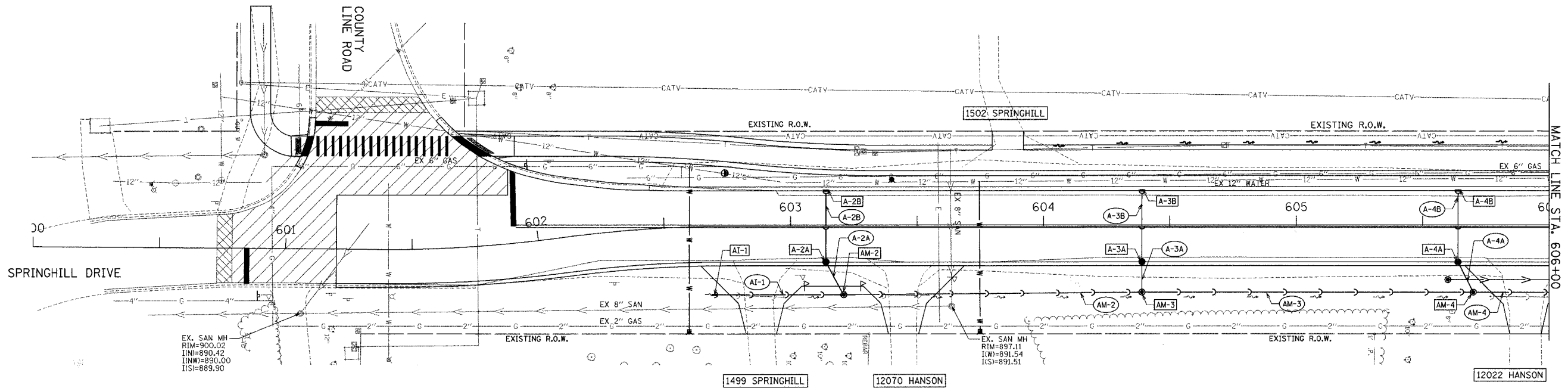
- ALL CURB LINE STRUCTURE LOCATIONS & ELEVATIONS ARE INDICATED AT THE EDGE OF PAVEMENT. ALL OTHER STRUCTURES ARE INDICATED AT THEIR CENTER.
- ALL PIPE LENGTHS ARE INDICATED TO INSIDE WALL OF STRUCTURE.

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	06-00071-00-PV	McHENRY	31	11

ILLINOIS PROJECT
CONTRACT NO. 63001

HORIZ. - 1" = 20'
SCALE IN FEET

VERT. - 1" = 10'
SCALE IN FEET



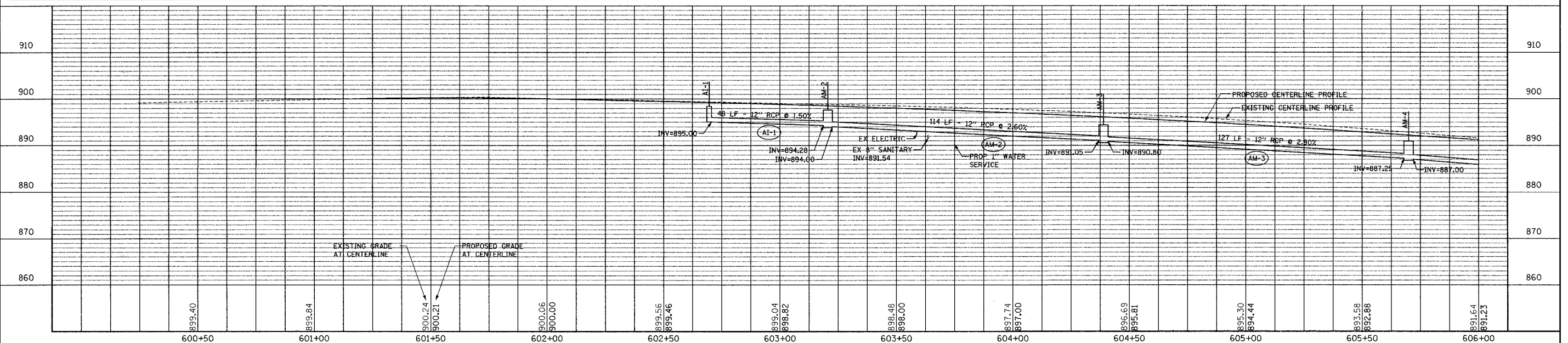
STRUCTURE SCHEDULES

STRUCTURE NO	LOCATION		STRUCTURE TYPE	FRAME & LID OR GRATE	RIM ELEVATION	INVERT ELEVATION			
	STATION	OFFSET				NORTH	SOUTH	EAST	WEST
AI-1	602+69.6	27.0 FT RT	INLET TY A 2 FT DIA	EJIW 6527	898.40	895.00			
AM-2	603+21.0	27.0 FT RT	MH TY A 4 FT DIA	EJIW 6527	897.80	894.00	894.28		894.10
A-2A	603+14.0	14.0 FT RT	CB TY A 4 FT DIA	TYPE 23	898.33			894.45	894.56
A-2B	603+14.0	14.0 FT LT	INLET TY A 2 FT DIA	EJIW 7010 - M3	898.33			895.10	
AM-3	604+39.0	26.0 FT RT	MH TY A 4 FT DIA	EJIW 6527	894.35	890.80	891.05		891.00
A-3A	604+39.0	14.0 FT RT	CB TY A 4 FT DIA	EJIW 7010 - M4	895.81			891.55	891.66
A-3B	604+39.0	14.0 FT LT	INLET TY A 2 FT DIA	EJIW 7010 - M4	895.81			892.60	
AM-4	605+70.0	26.0 FT RT	MH TY A 4 FT DIA	EJIW 6527	890.60	887.00	887.25		887.11
A-4A	605+64.0	14.0 FT RT	CB TY A 4 FT DIA	EJIW 7010 - M4	892.14			887.87	888.00
A-4B	605+64.0	14.0 FT LT	INLET TY A 2 FT DIA	EJIW 7010 - M4	892.14			888.95	

PIPE SCHEDULES

PIPE NO	LOCATION		SIZE	LENGTH	SLOPE	TRENCH BACKFILL
	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE				
AI-1	AI-1	AM-1	12	48	1.50	6.5
A-2A	A-2A	AM-1	12	10	3.50	0.6
A-2B	A-2B	A-2A	12	27	2.00	5.5
AM-2	AM-2	AM-3	12	114	2.60	6.7
A-3A	A-3A	AM-3	12	7	7.90	0.7
A-3B	A-3B	A-3A	12	27	3.50	5.5
AM-3	AM-3	AM-4	12	127	2.80	0.0
A-4A	A-4A	AM-4	12	9	8.50	0.8
A-4B	A-4B	A-4A	12	27	3.52	6.1

HANSON ROAD STORM SEWER PLANS



PLAN AND PROFILE

HANSON ROAD STA. 600+00 TO STA. 606+00

CONFLICT RESOLUTION CHARTS

PIPE NO	LOCATION		UPPER PIPE		LOWER PIPE	
	STATION	OFFSET	TYPE	BOTTOM ELEVATION	TYPE	TOP ELEVATION
AM-4	606+15.0	26.0 FT RT	PROP 12" STORM	885.35	PROP 6" SAN SER	881.32
AM-4	606+52.0	26.0 FT RT	PROP 12" STORM	883.93	PROP 1" WATER SER	882.20
AM-4	607+43.0	26.0 FT RT	PROP 12" STORM	880.44	PROP 1" WATER SER	878.25
AM-4	607+90.0	26.0 FT RT	PROP 12" STORM	878.63	PROP 6" SAN SER	875.34
A-5A	608+12.8	21.0 FT RT	PROP 12" STORM	877.89	PROP 8" SANITARY	874.49
AM-5	609+43.0	26.0 FT RT	PROP 12" STORM	873.63	PROP 1" WATER SER	871.60
AM-5	609+65.0	26.0 FT RT	PROP 12" STORM	872.96	PROP 6" SAN SER	868.86
A-6A	609+85.0	21.0 FT RT	PROP 12" STORM	872.28	PROP 8" SANITARY	868.12
AM-6	611+00.0	26.0 FT RT	PROP 12" STORM	867.14	PROP 1" WATER SER	864.67
AM-6	611+25.0	21.0 FT RT	PROP 12" STORM	866.02	PROP 6" SAN SER	862.80

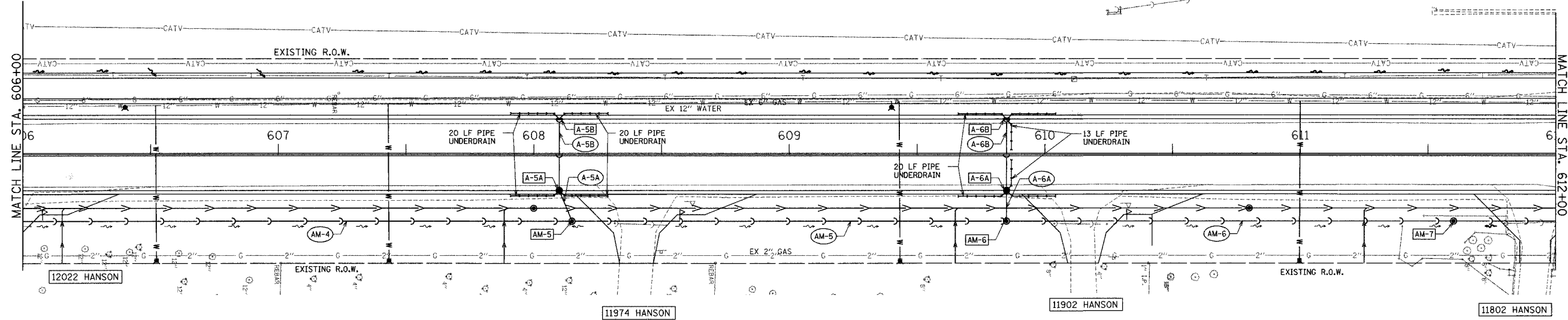
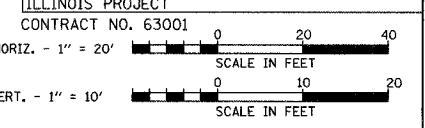
PIPE UNDERDRAIN SCHEDULE

LOCATION			PIPE
STATION	STATION	OFFSET	4" PVC UNDERDRAIN (FT)
607+91	608+10	LT	20
607+91	608+10	RT	20
608+10	608+29	LT	20
608+10	608+29	RT	20
609+66	609+85	LT	20
609+66	609+85	RT	20
609+85	609+87	LT	13
609+85	609+87	RT	13
609+85	610+04	LT	20
609+85	610+04	RT	20

NOTES:

- ALL CURB LINE STRUCTURE LOCATIONS & ELEVATIONS ARE INDICATED AT THE EDGE OF PAVEMENT. ALL OTHER STRUCTURES ARE INDICATED AT THEIR CENTER.
- ALL PIPE LENGTHS ARE INDICATED TO INSIDE WALL OF STRUCTURE.

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	06-00071-00-PV	McHENRY	31	12



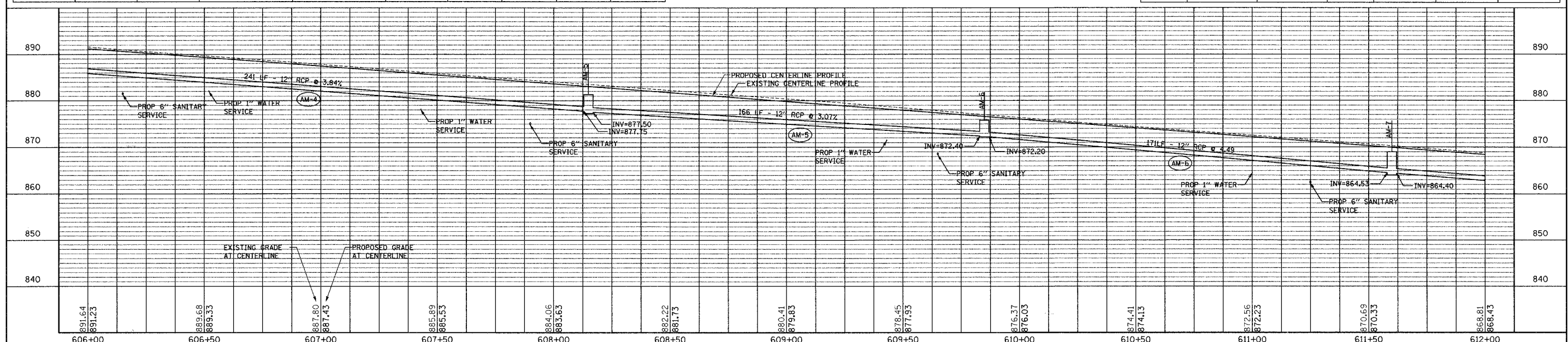
STRUCTURE SCHEDULES

STRUCTURE NO	LOCATION		STRUCTURE TYPE	FRAME & LID OR GRATE	RIM ELEVATION	INVERT ELEVATION			
	STATION	OFFSET				NORTH	SOUTH	EAST	WEST
AM-5	608+15.0	26.0 FT RT	MH TY A 4 FT DIA	EJW 6527	881.30	877.50	877.75		877.60
A-5A	608+10.0	14.0 FT RT	CB TY A 4 FT DIA	EJW 7010 - M4	882.97			878.35	878.45
A-5B	608+10.0	14.0 FT LT	INLET TY A 2 FT DIA	EJW 7010 - M4	882.97			879.80	
AM-6	609+85.0	26.0 FT RT	MH TY A 4 FT DIA	EJW 6527	875.40	872.20	872.40		872.30
A-6A	609+85.0	14.0 FT RT	CB TY A 4 FT DIA	EJW 7010 - M4	876.32			872.65	872.75
A-6B	609+85.0	14.0 FT LT	INLET TY A 2 FT DIA	EJW 7010 - M4	876.32			873.15	
AM-7	611+00.0	26.0 FT RT	MH TY A 4 FT DIA	EJW 6527	868.80	864.40	864.53		

PIPE SCHEDULES

PIPE NO	LOCATION		SIZE	LENGTH	SLOPE	TRENCH BACKFILL
	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE				
AM-4	AM-4	AM-5	12	241	3.84	8.1
A-5A	A-5A	AM-5	12	9	8.33	0.8
A-5B	A-5B	A-5A	12	27	5.00	6.4
AM-5	AM-5	AM-6	12	166	3.07	7.9
A-6A	A-6A	AM-5	12	9	3.89	0.7
A-6B	A-6B	A-6A	12	27	1.50	5.1
AM-6	AM-6	AM-7	12	171	4.49	8.9

HANSON ROAD STORM SEWER PLANS



PLAN AND PROFILE

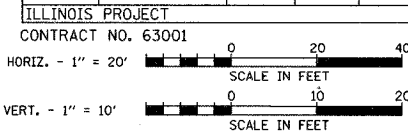
HANSON ROAD STA. 606+00 TO STA. 612+00

STRUCTURE NO	LOCATION STATION	OFFSET	STRUCTURE TYPE	FRAME & LID OR GRATE	RIM ELEVATION	INVERT ELEVATION NORTH	INVERT ELEVATION SOUTH	INVERT ELEVATION EAST	INVERT ELEVATION WEST
AM-8	612+70.0	26.0 FT RT	MH TY A 4 FT DIA	EJIW 6527	864.70	860.00	860.16	860.10	860.10
A-8A	612+70.0	14.0 FT RT	CB TY A 4 FT DIA	EJIW 7010 - M4	865.49			860.90	861.00
A-8B	612+70.0	14.0 FT RT	INLET TY A 2 FT DIA	EJIW 7010 - M4	865.49			862.45	
AM-9	613+70.0	26.0 FT RT	MH TY A 4 FT DIA	EJIW 6527	859.75	854.40	854.50	856.65	854.45
A-9A	613+93.0	36.0 FT RT	CB TY A 4 FT DIA	EJIW 7010 - M4	860.00			857.75	856.85
A-9B	613+65.2	16.4 FT LT	CB TY A 4 FT DIA	EJIW 7010 - M4	861.90	857.84		857.75	858.04
A-9C	613+65.0	34 FT LT	INLET TY A 2 FT DIA	EJIW 6527	861.90			858.10	
A-9D	613+85.8	33.0 FT LT	INLET TY A 2 FT DIA	EJIW 7010 M-3	861.20		857.95		
AM-10	614+70.0	0 FT	MH TY A 4 FT DIA	EJIW 1050 CL	859.11	853.30	853.40	853.35	853.35
A-10A	614+70.0	20.3 FT RT	CB TY A 4 FT DIA	EJIW 7010 - M4	858.68			853.85	854.20
A-10B	614+70.0	14 FT LT	CB TY A 4 FT DIA	EJIW 7010 - M4	858.80			853.85	
AM-11	616+43.0	0 FT	MH TY A 6 FT	EJIW 1050 CL	857.61	842.56	850.25	842.31	842.90
AM-12	616+68.0	0 FT	MH TY A 6 FT	EJIW 1050 CL	857.72	852.80 (PLUG)	842.67	842.92 (VIF)	842.90 (VIF)

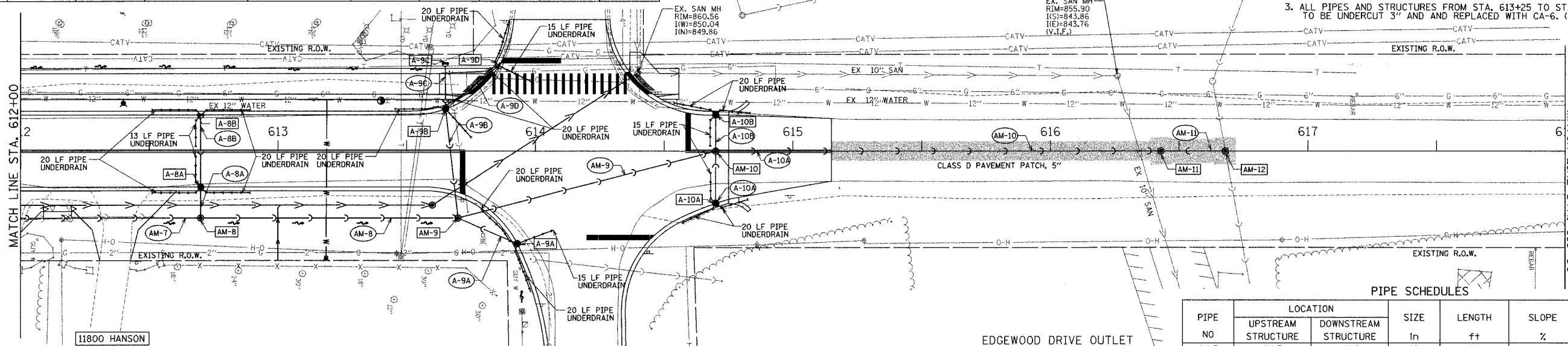
PIPE UNDERDRAIN SCHEDULE			
STATION	STATION	OFFSET	PIPE 4" PVC UNDERDRAIN (FT)
612+51	612+70	LT	20
612+51	612+70	RT	20
612+68	612+70	LT	13
612+68	612+70	RT	13
612+70	612+89	LT	20
612+70	612+89	RT	20
613+45	613+65	RT	20
613+65	613+75	LT	20
613+65	613+75	RT	15
613+76	613+86	LT	20

PIPE UNDERDRAIN SCHEDULE			
STATION	STATION	OFFSET	PIPE 4" PVC UNDERDRAIN (FT)
613+78	613+93	RT	20
613+86	613+98	LT	15
613+86	613+98	RT	20
613+98	613+98	RT	20
613+98	614+07	RT	15
614+53	614+70	LT	20
614+57	614+70	RT	20
614+68	614+70	LT	15
614+68	614+70	RT	15
614+70	614+83	LT	20
614+70	614+83	RT	20

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	06-00071-00-PV	McHENRY	31	13



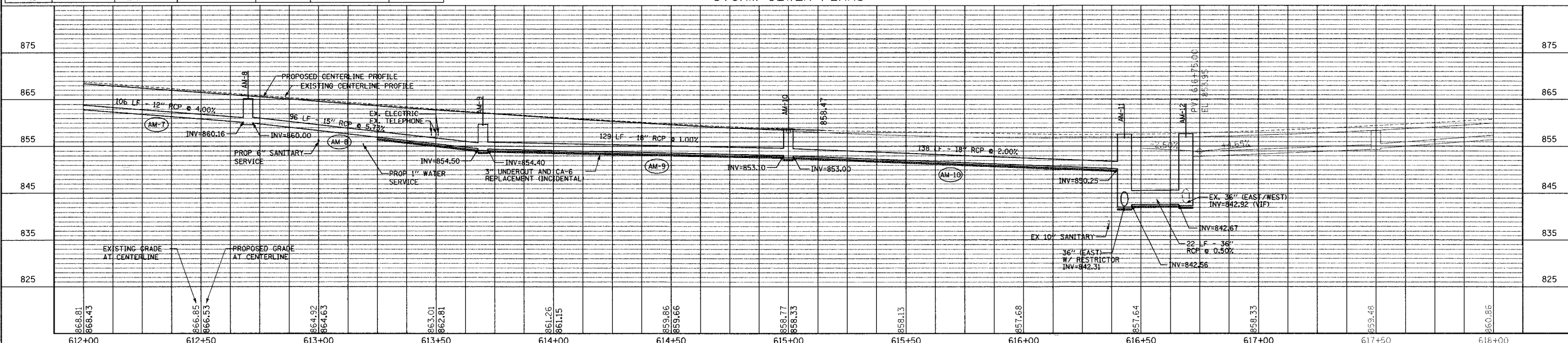
- NOTES:
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 - ALL PIPE LENGTHS ARE INDICATED TO INSIDE WALL OF STRUCTURE.
 - ALL PIPES AND STRUCTURES FROM STA. 613+25 TO STA. 617+00 ARE TO BE UNDERCUT 3" AND AND REPLACED WITH CA-6. (INCIDENTAL)



CONFLICT RESOLUTION CHARTS

PIPE NO	LOCATION		UPPER PIPE		LOWER PIPE	
	STATION	OFFSET	TYPE	BOTTOM ELEVATION	TYPE	TOP ELEVATION
A-8A	612+70.0	21.0 FT RT	PROP 12" STORM	860.40	PROP 8" SANITARY	857.57
AM-8	613+00.0	26.0 FT RT	PROP 15" STORM	858.40	PROP 6" SAN SER	856.47
AM-8	613+19.0	26.0 FT RT	PROP 15" STORM	857.31	PROP 1" WATER SER	855.60
AM-8	613+48.0	26.0 FT RT	EX TELEPHONE	857.35	PROP 15" STORM	856.88
AM-8	613+50.0	26.0 FT RT	EX TELEPHONE	857.35	PROP 15" STORM	856.77
AM-8	613+51.0	26.0 FT RT	EX ELECTRIC	857.35	PROP 15" STORM	856.71
A-9B	613+68.8	15.3 FT RT	PROP 12" STORM	855.19	PROP 8" SANITARY	853.93

PIPE NO	LOCATION		SIZE In	LENGTH ft	SLOPE %	TRENCH BACKFILL cu yd
	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE				
AM-7	AM-7	AM-8	12	106	4.00	23.0
A-8A	A-8A	AM-8	12	8	10.00	1.6
A-8B	A-8B	A-8A	12	27	5.37	6.1
AM-8	AM-8	AM-9	15	96	5.73	0.0
A-9A	A-9A	AM-9	12	21	0.95	0.6
A-9B	A-9B	AM-9	12	39	8.50	12.9
A-9C	A-9C	A-9B	12	13	0.50	3.5
A-9D	A-9D	A-9B	12	23	0.50	6.9
AM-9	AM-9	AM-10	18	99	1.00	45.8
A-10A	A-10A	AM-10	12	17	5.00	6.3
A-10B	A-10B	AM-10	12	10	5.00	4.0
AM-10	AM-10	AM-11	18	169	2.00	152.5
AM-11	AM-11	AM-11	36	19	0.50	60.7

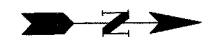


PLAN AND PROFILE

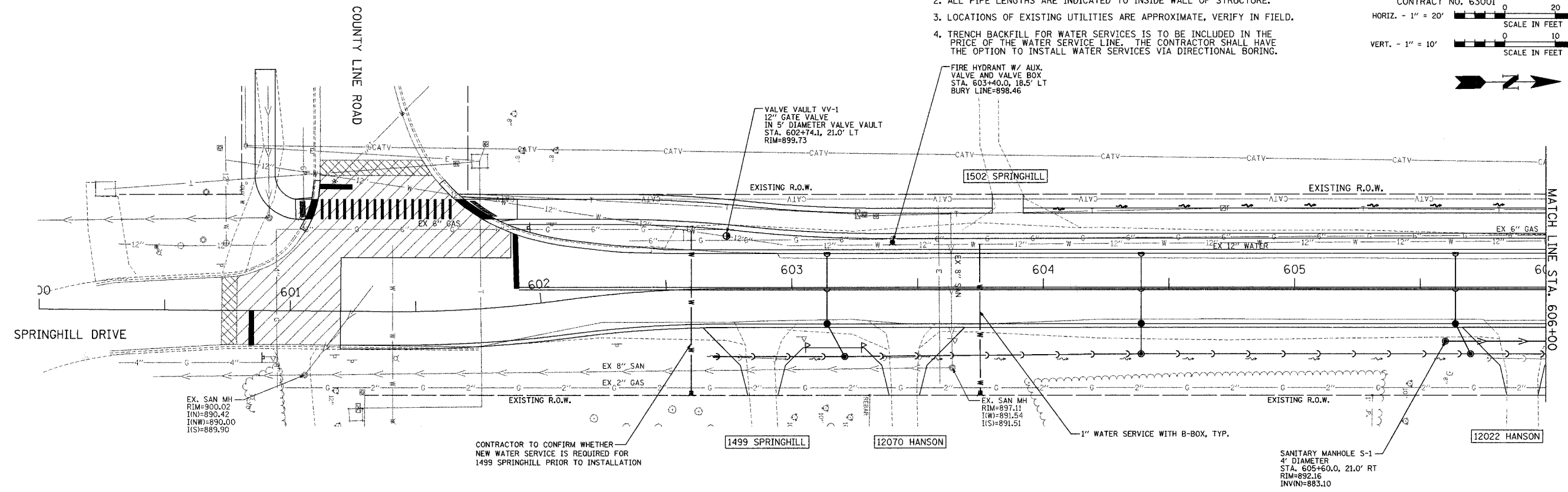
HANSON ROAD STA. 612+00 TO STA. 618+00

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	06-00071-00-PV	McHENRY	31	14

ILLINOIS PROJECT
 CONTRACT NO. 63001
 HORIZ. - 1" = 20'
 VERT. - 1" = 10'



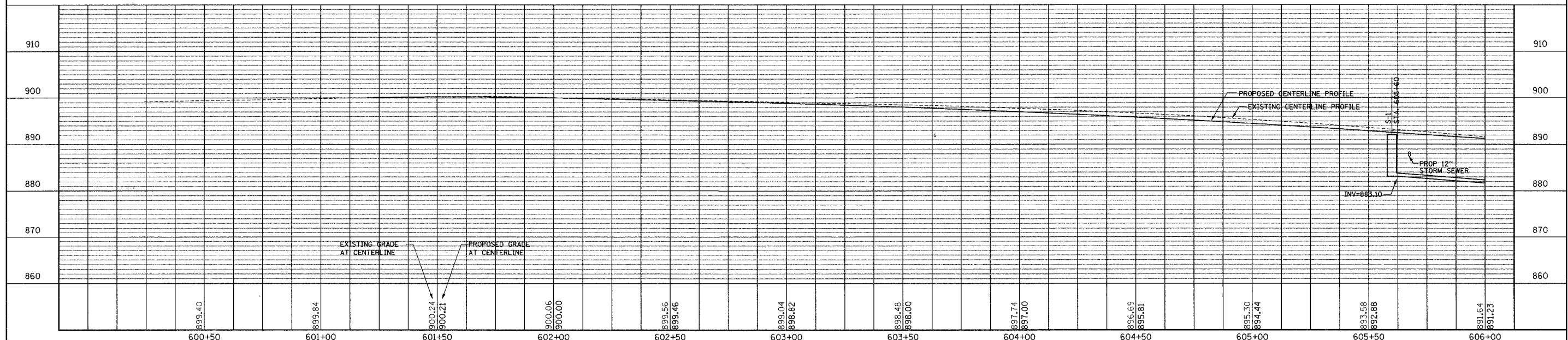
- NOTES:
- SANITARY AND WATER STRUCTURE LOCATIONS ARE INDICATED AT THEIR CENTER.
 - ALL PIPE LENGTHS ARE INDICATED TO INSIDE WALL OF STRUCTURE.
 - LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE, VERIFY IN FIELD.
 - TRENCH BACKFILL FOR WATER SERVICES IS TO BE INCLUDED IN THE PRICE OF THE WATER SERVICE LINE. THE CONTRACTOR SHALL HAVE THE OPTION TO INSTALL WATER SERVICES VIA DIRECTIONAL BORING.



WATER SERVICE SCHEDULE

ADDRESS	STATION	SIZE & TYPE	LENGTH	NOTES
1499 SPRINGHILL	602+60	1" COPPER	64 FT	INSTALL NEW CORP STOP, CURB STOP AND B-BOX
12070 HANSON	603+75	1" COPPER	59 FT	INSTALL NEW CORP STOP, CURB STOP AND B-BOX

HANSON ROAD
 SANITARY SEWER AND WATER MAIN PLANS
 (NON-PARTICIPATING ITEM)



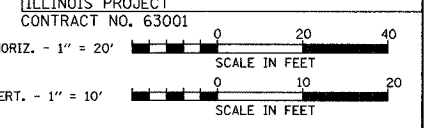
PLAN AND PROFILE

HANSON ROAD STA. 600+00 TO STA. 606+00

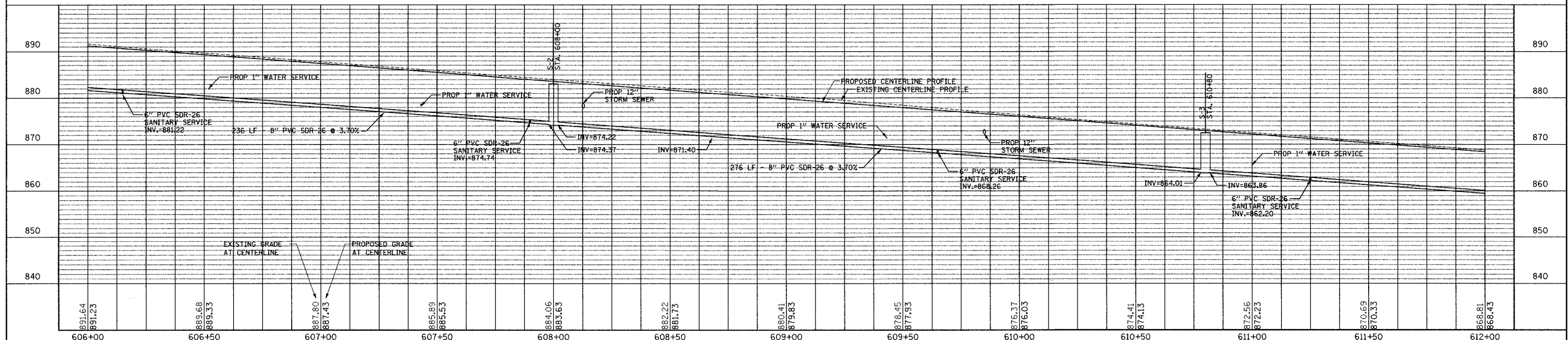
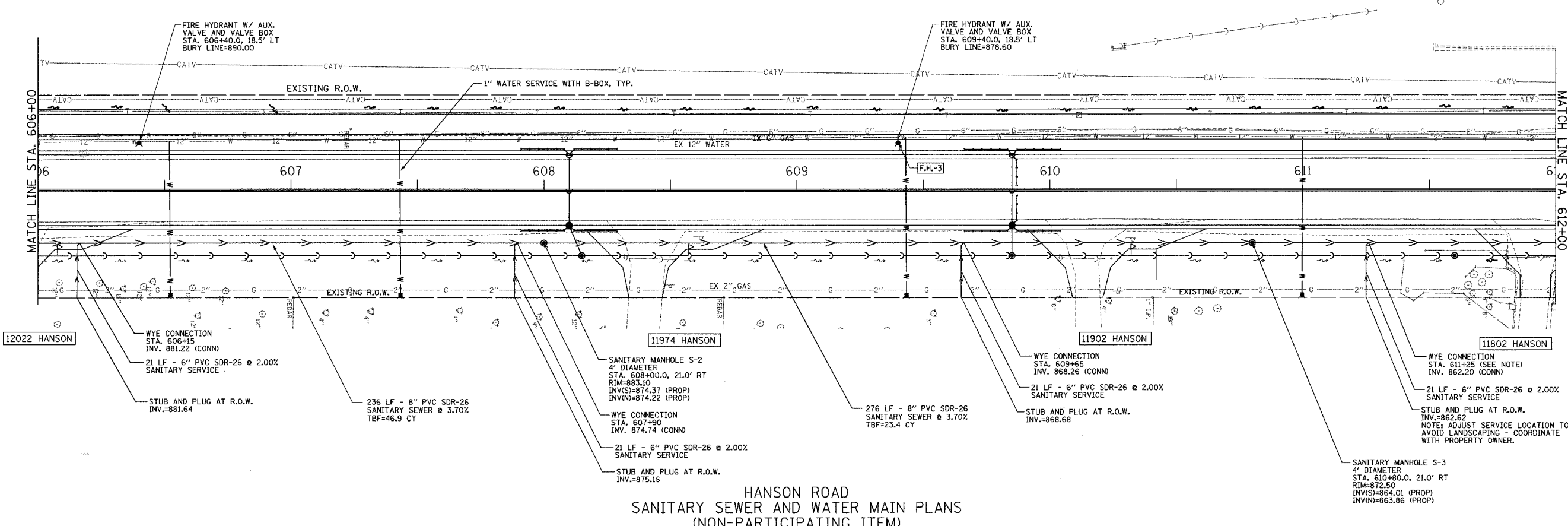
WATER SERVICE SCHEDULE

ADDRESS	STATION	SIZE & TYPE	LENGTH	NOTES
12022 HANSON	606+52	1" COPPER	61 FT	INSTALL NEW CORP STOP, CURB STOP AND B-BOX
11974 HANSON	607+43	1" COPPER	61 FT	INSTALL NEW CORP STOP, CURB STOP AND B-BOX
11902 HANSON	609+43	1" COPPER	62 FT	INSTALL NEW CORP STOP, CURB STOP AND B-BOX
11802 HANSON	611+00	1" COPPER	62 FT	INSTALL NEW CORP STOP, CURB STOP AND B-BOX

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	06-00071-00-PV	McHENRY	31	15



- NOTES:
- SANITARY AND WATER STRUCTURE LOCATIONS ARE INDICATED AT THEIR CENTER.
 - ALL PIPE LENGTHS ARE INDICATED TO INSIDE WALL OF STRUCTURE.
 - LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE, VERIFY IN FIELD.
 - TRENCH BACKFILL FOR WATER SERVICES IS TO BE INCLUDED IN THE PRICE OF THE WATER SERVICE LINE. THE CONTRACTOR SHALL HAVE THE OPTION TO INSTALL WATER SERVICES VIA DIRECTIONAL BORING.



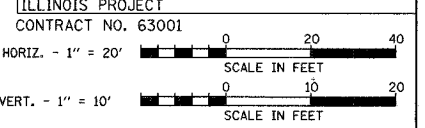
PLAN AND PROFILE

HANSON ROAD STA. 606+00 TO STA. 612+00

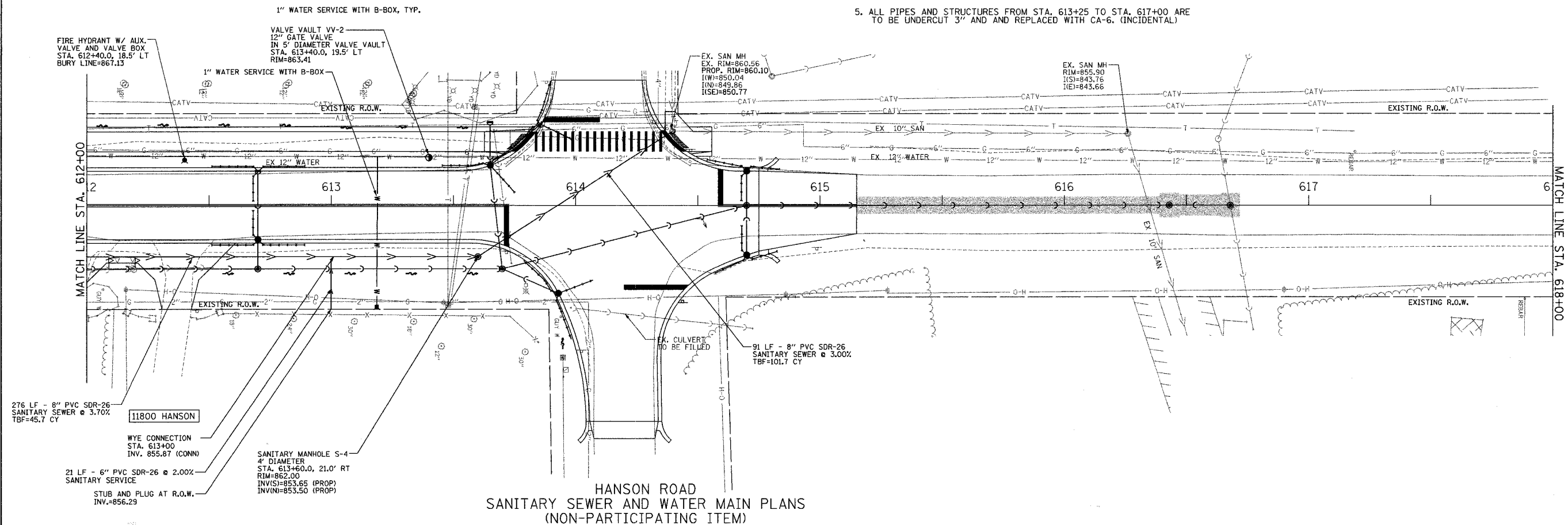
WATER SERVICE SCHEDULE

ADDRESS	STATION	SIZE & TYPE	LENGTH	NOTES
11800 HANSON	613+19	1" COPPER	61 FT	INSTALL NEW CORP STOP, CURB STOP AND B-BOX

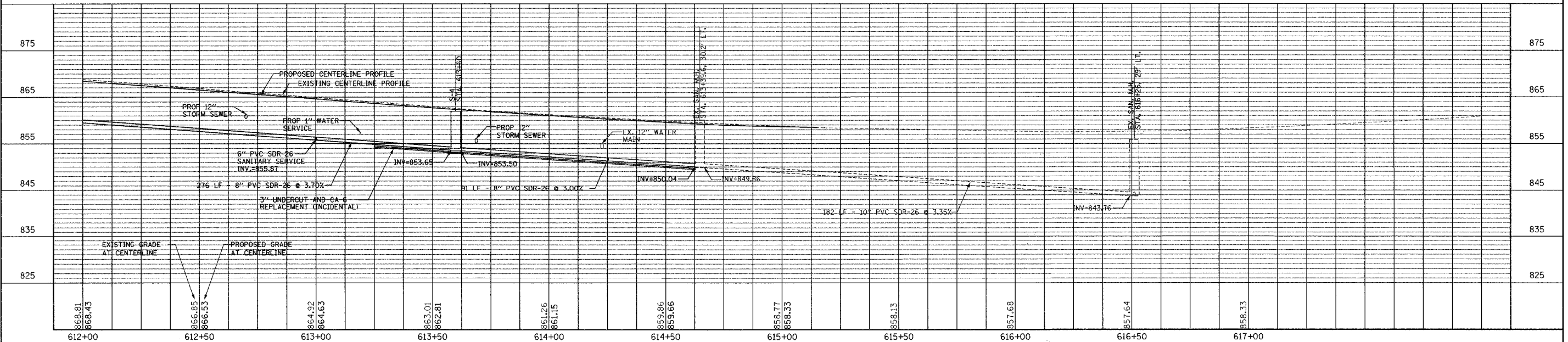
F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	06-00071-00-PV	McHENRY	31	16



- NOTES:
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 - ALL PIPE LENGTHS ARE INDICATED TO INSIDE WALL OF STRUCTURE.
 - LOCATIONS OF EXISTING UTILITY ARE APPROXIMATE, VERIFY IN FIELD.
 - TRENCH BACKFILL FOR WATER SERVICES IS TO BE INCLUDED IN THE PRICE OF THE WATER SERVICE LINE. THE CONTRACTOR SHALL HAVE THE OPTION TO INSTALL WATER SERVICES VIA DIRECTIONAL BORING.
 - ALL PIPES AND STRUCTURES FROM STA. 613+25 TO STA. 617+00 ARE TO BE UNDERCUT 3" AND AND REPLACED WITH CA-6. (INCIDENTAL)



HANSON ROAD
SANITARY SEWER AND WATER MAIN PLANS
(NON-PARTICIPATING ITEM)



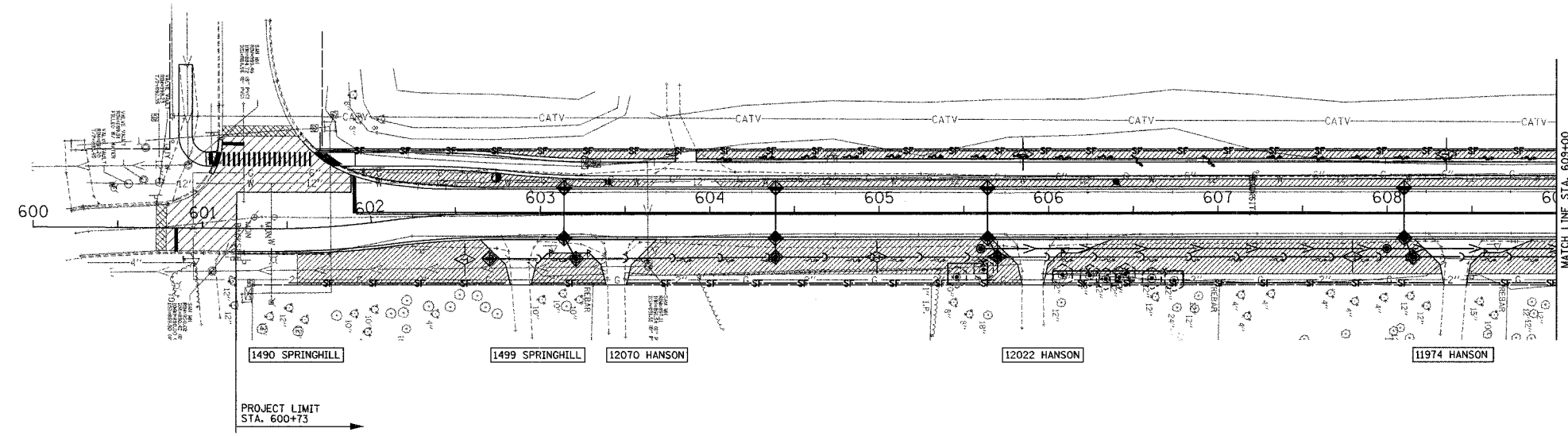
PLAN AND PROFILE

HANSON ROAD STA. 612+00 TO STA. 618+00

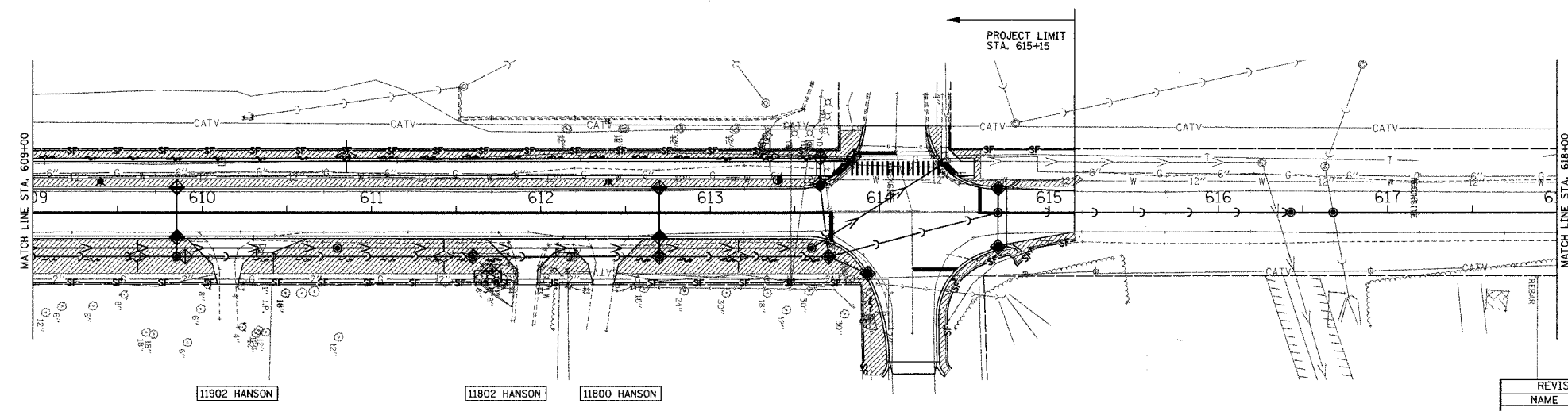
F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	06-00071-00-PV	McHENRY	31	17

ILLINOIS PROJECT
CONTRACT NO. 63001

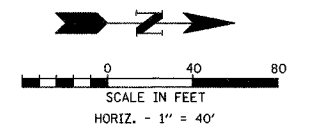
- LEGEND:**
- LANDSCAPE RESTORATION, INCL. TOPSOIL, SEEDING & E.C. BLANKET
 - AGGREGATE SHOULDER REPLACEMENT
 - PROPOSED SILT FENCE
 - PROPOSED CONSTRUCTION FENCING
 - PROPOSED FILTERS
 - TEMPORARY DITCH CHECK
 - PLANT MATERIAL TO BE REMOVED
 - PROPOSED TREE ROOT PRUNING
 - FLOWLINE FOR EXISTING SWALE
 - FLOWLINE FOR PROPOSED SWALE



HANSON ROAD
RESTORATION AND EROSION CONTROL PLAN



HANSON ROAD
RESTORATION AND EROSION CONTROL PLAN



REVISIONS	
NAME	DATE

HANSON ROAD IMPROVEMENTS
COUNTY LINE ROAD TO EDGEWOOD DRIVE
RESTORATION AND EROSION CONTROL PLAN
DATE: 12-18-07
DRAWN BY: AJR
CHECKED BY: MAY
GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC.
CHICAGO, ILLINOIS

PLAN
 STA. 602+88.46 TO STA. 603+50
 CONTRACT NO. 63001 ILLINOIS

COUNTY
 MOHAWY 31

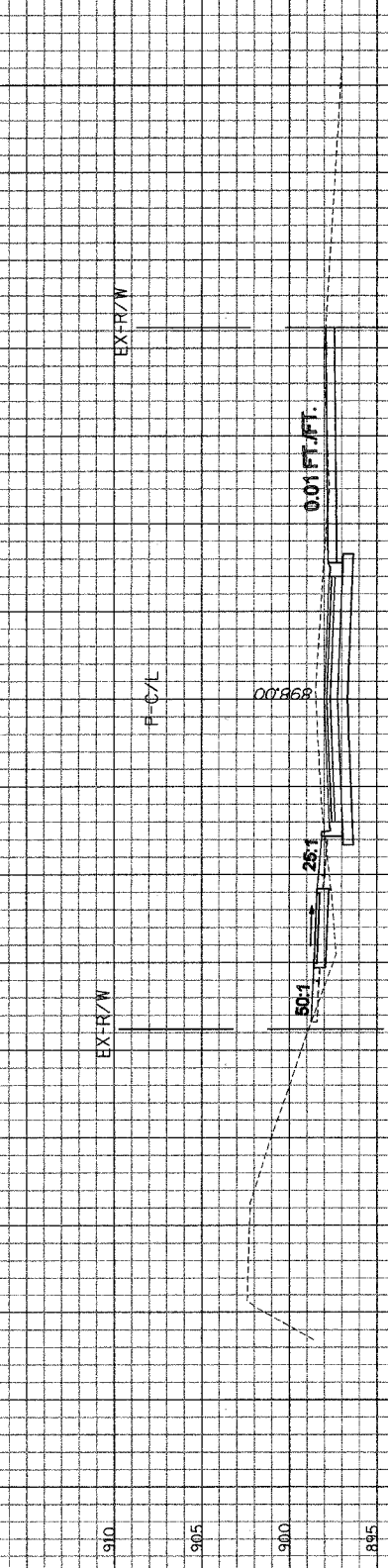
TOTAL SHEETS
 31

SHEET NO.
 19

90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90

910 905 900 895

EX-R/W F-C/L

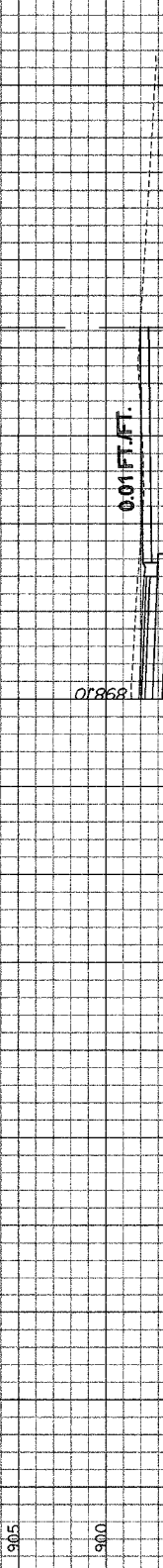


EARTH EXC. (SQ. FT.) = 63.3
 UNSUITABLE EXC. (SQ. FT.) = 12.2
 EMBANKMENT (SQ. FT.) = 17.9
 P.G.E. (SQ. FT.) = 0

603+50.00

910 905 900 895

EX-R/W F-C/L

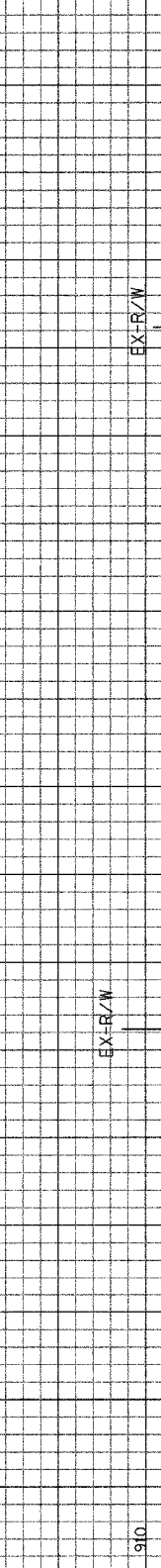


EARTH EXC. (SQ. FT.) = 40.4
 UNSUITABLE EXC. (SQ. FT.) = 24.3
 EMBANKMENT (SQ. FT.) = 29.4
 P.G.E. (SQ. FT.) = 0

603+44.75

910 905 900 895

EX-R/W F-C/L

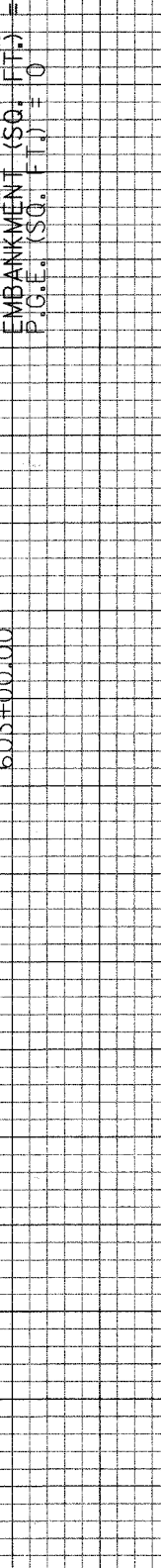


EARTH EXC. (SQ. FT.) = 40.4
 UNSUITABLE EXC. (SQ. FT.) = 24.3
 EMBANKMENT (SQ. FT.) = 29.4
 P.G.E. (SQ. FT.) = 0

602+88.46

910 905 900 895

EX-R/W F-C/L

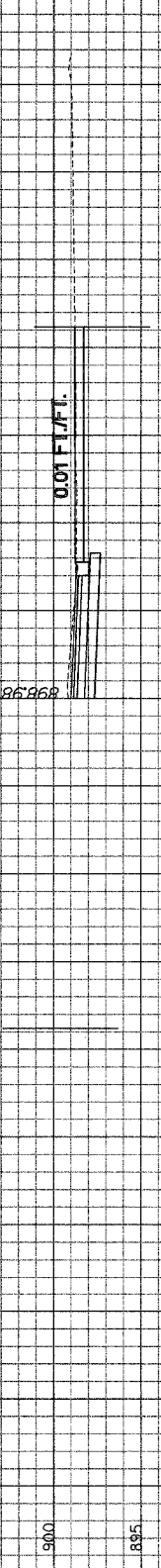


EARTH EXC. (SQ. FT.) = 40.4
 UNSUITABLE EXC. (SQ. FT.) = 24.3
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 P.G.E. (SQ. FT.) = 0

603+00.00

910 905 900 895

EX-R/W F-C/L

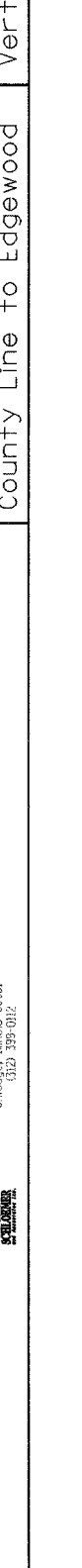


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 UNSUITABLE EXC. (SQ. FT.) = 24.3
 EMBANKMENT (SQ. FT.) = 29.4
 P.G.E. (SQ. FT.) = 0

602+88.46

910 905 900 895

EX-R/W F-C/L



EARTH EXC. (SQ. FT.) = 40.4
 UNSUITABLE EXC. (SQ. FT.) = 24.3
 EMBANKMENT (SQ. FT.) = 29.4
 P.G.E. (SQ. FT.) = 0

603+00.00

910 905 900 895

EX-R/W F-C/L

Hanson Road

County Line to Edgewood

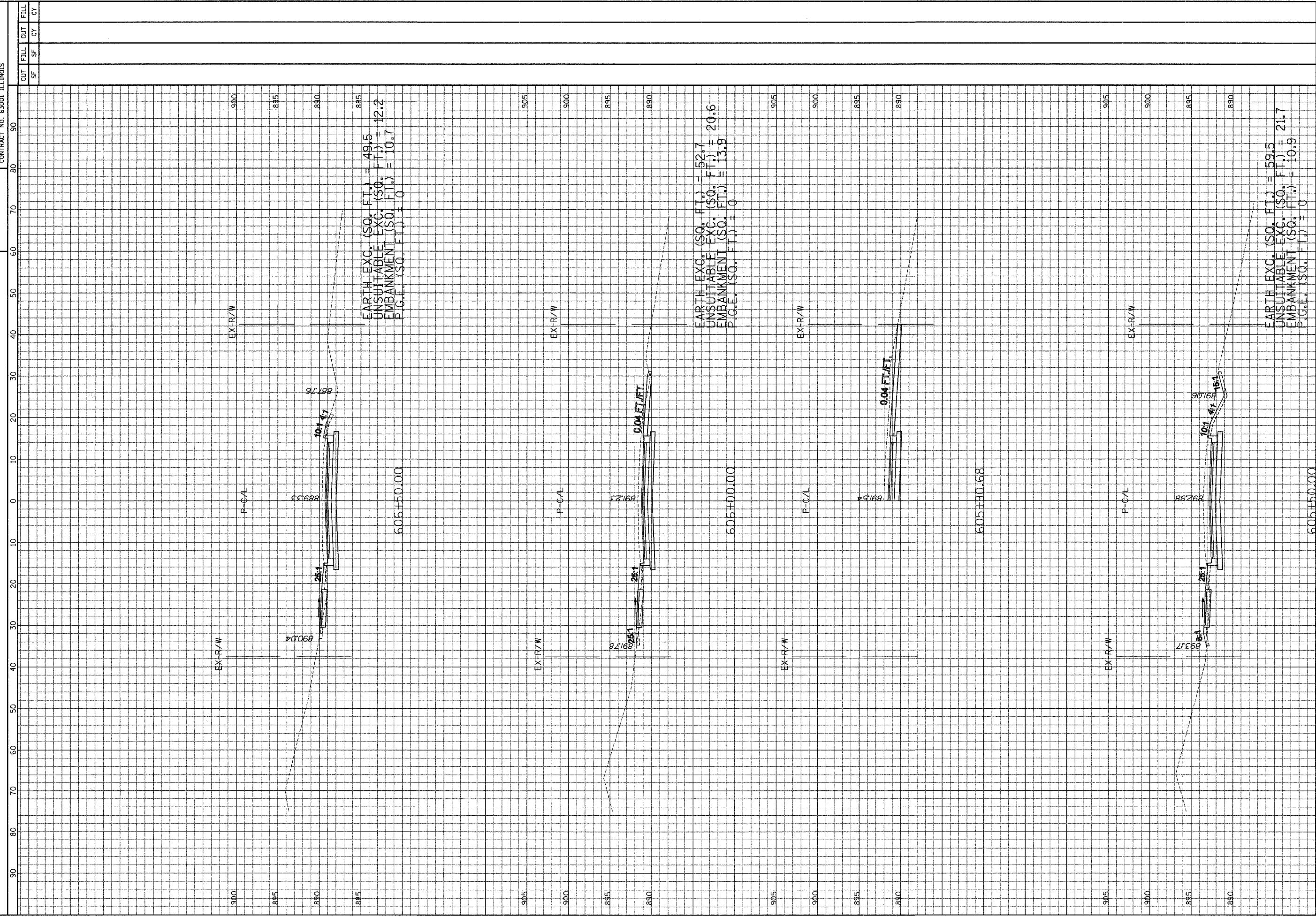
Hor. Scale: 1" = 10'

Vert. Scale: 1" = 5'

ORLET, ANNA T. SCHLOBER & ASSOCIATES, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8501 W. Higgins Road, Suite 280
 Chicago, IL 60631
 (773) 399-9812



F.A.U. R.T.E. SECTION COUNTY TOTAL SHEETS SHEET NO.
 4011 06-00071-00-PV McHENRY 31 21
 STA. 605+50 TO STA. 606+50 CONTRACT NO. 63001 ILLINOIS



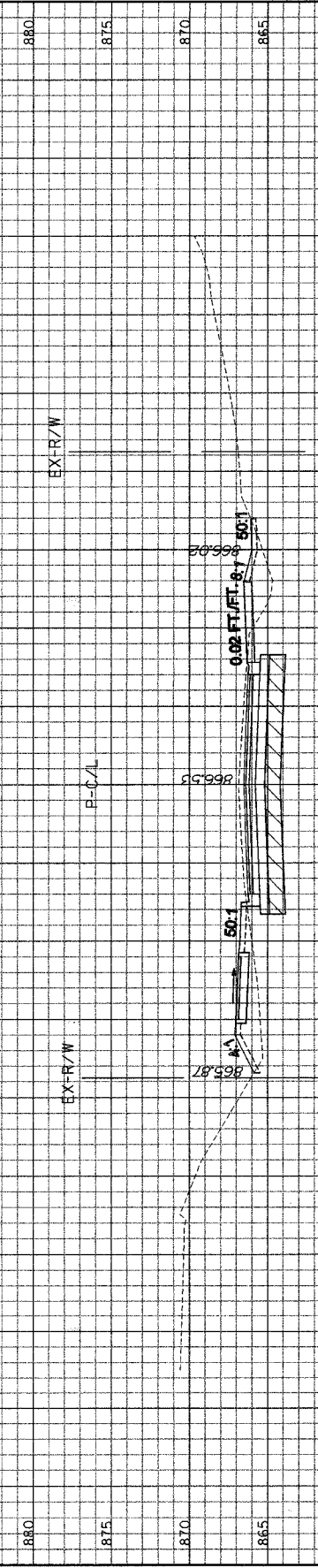
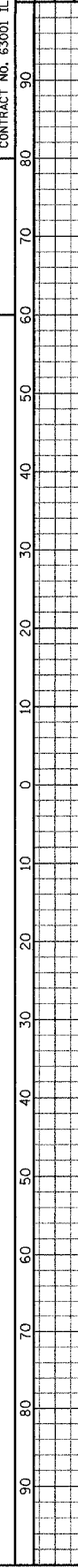
Hanson Road
 County Line to Edgewood
 Hor. Scale: 1" = 10'
 Vert. Scale: 1" = 5'

GRANT, ANNA T. SCHLOEDER & ASSOCIATES, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 9501 W. Higgins Road, Suite 280
 Chicago, Illinois 60631
 (773) 399-0132

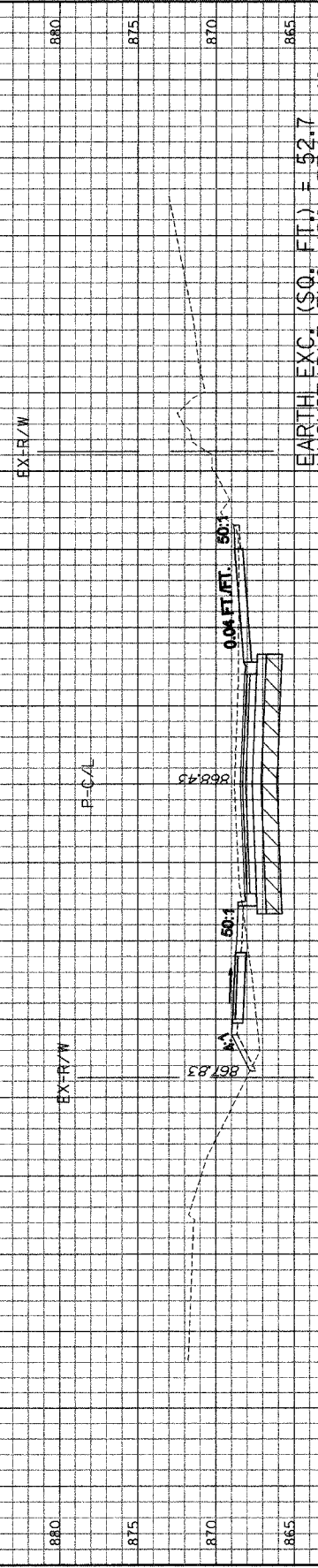
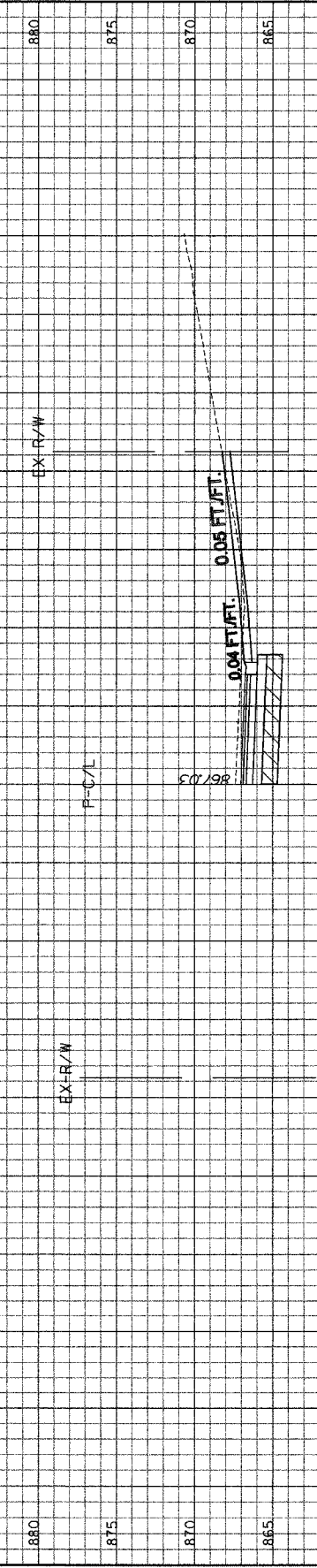
F.A.H. R.T.E. 4011
 COUNTY McHENRY
 SECTION 06-00071-00-PV
 CONTRACT NO. 632001 ILLINOIS
 STA. 611+93.96 TO STA. 612+50

TOTAL SHEETS 31
 SHEET NO. 25

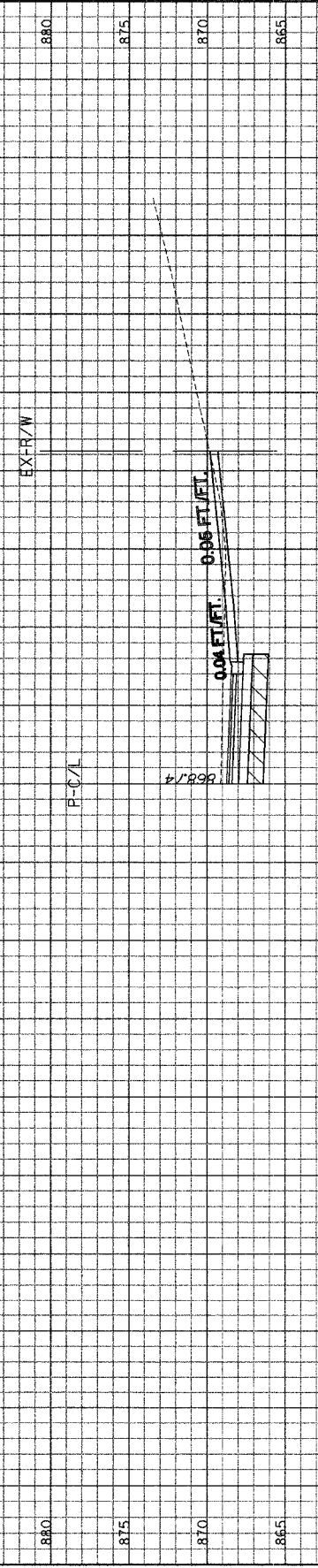
CUT	FILL	CUT	FILL
SF	SF	CY	CY



EARTH EXC. (SQ. FT.) = 42.1
 UNSUITABLE EXC. (SQ. FT.) = 51.5
 EMBANKMENT (SQ. FT.) = 35.7
 P.C.E. (SQ. FT.) = 33.2



EARTH EXC. (SQ. FT.) = 52.7
 UNSUITABLE EXC. (SQ. FT.) = 48.4
 EMBANKMENT (SQ. FT.) = 24.6
 P.C.E. (SQ. FT.) = 33.2

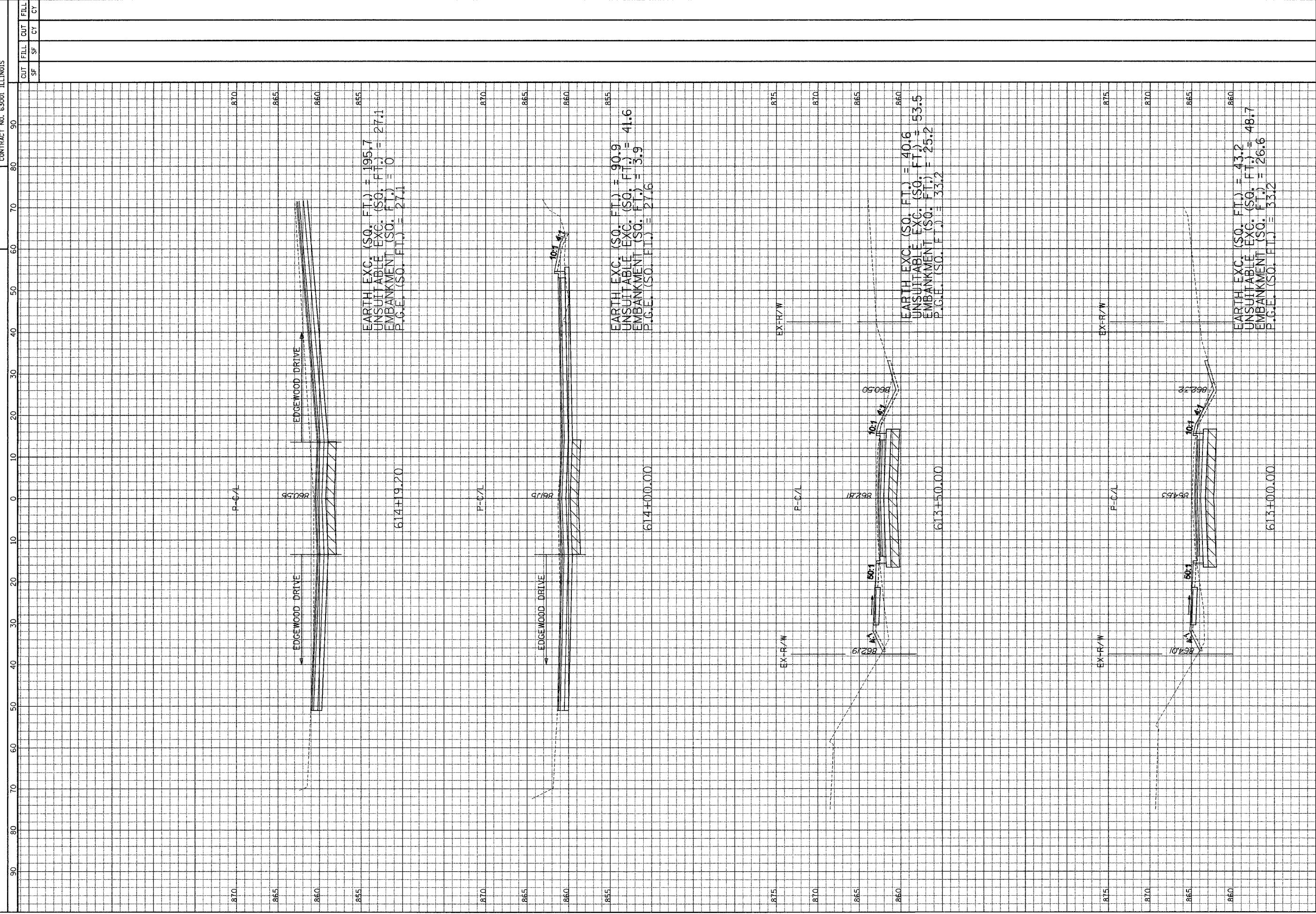


Hanson Road
 County Line to Edgewood
 Hor. Scale: 1" = 10'
 Vert. Scale: 1" = 5'

GRAEF, ANHAI T., SCHLOBER & ASSOCIATES, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8501 W. Higgins Road, Suite 280
 Chicago, Illinois 60631
 (312) 399-9416



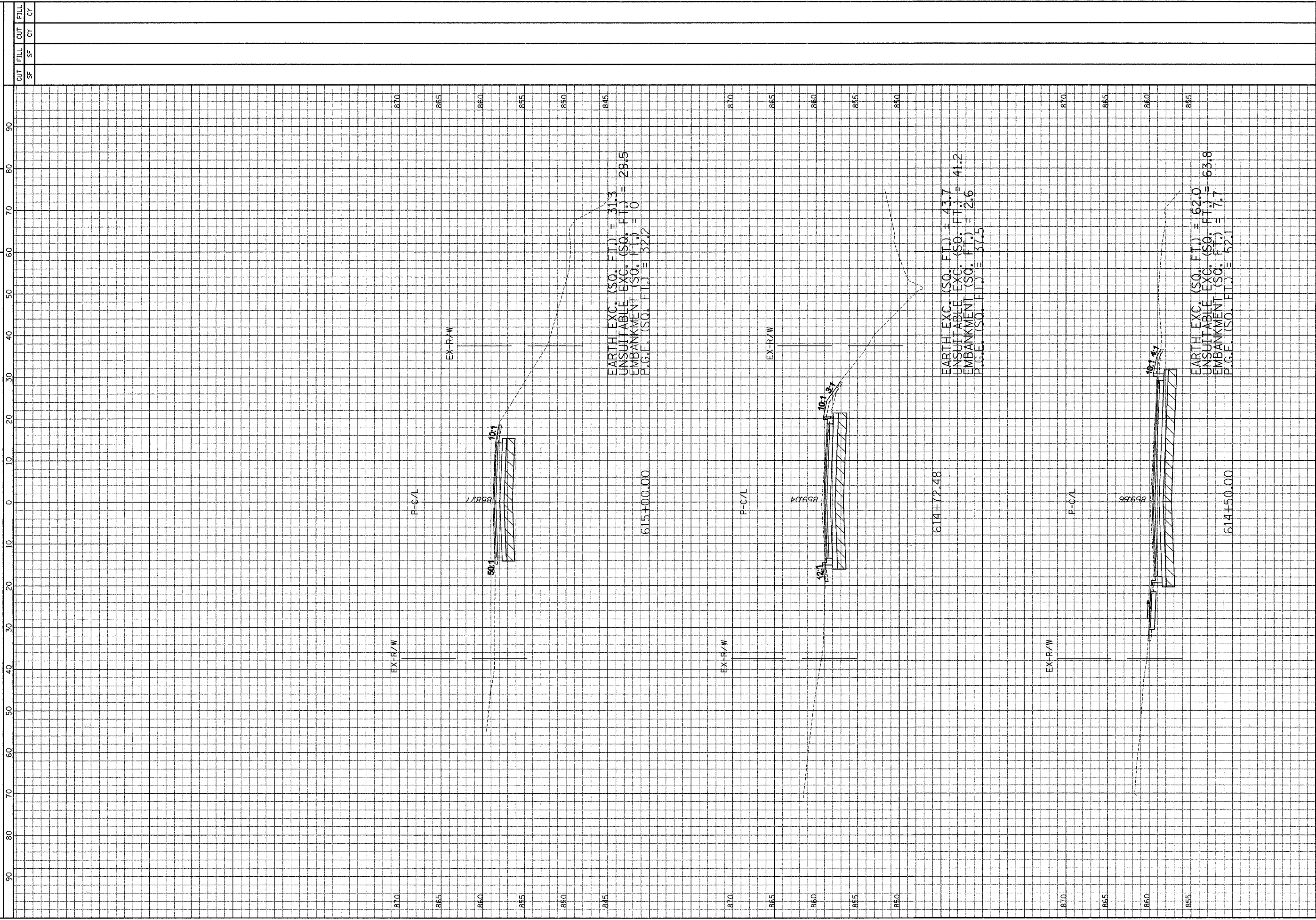
SECTION COUNTY TOTAL SHEETS SHEET NO.
 4011 06-00071-00-PV McHENRY 31 26
 STA. 613+00 TO STA. 614+9.20
 CONTRACT NO. 63001 ILLINOIS



Hanson Road
 County Line to Edgewood
 Hor. Scale: 1" = 10'
 Vert. Scale: 1" = 5'

GRAEF, ANHALT, SCHLOBER & ASSOCIATES, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 9501 W. Higgins Road, Suite 280
 Chicago, Illinois 60631
 (773) 399-0100

F.A.U. R/E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
401	06-00071-00-PV	McHENRY	31	27
STA. 614+50		TO STA. 615+00		
CONTRACT NO. 63001 ILLINOIS				



CUT	FILL	CUT	FILL
SF	SF	CY	CY

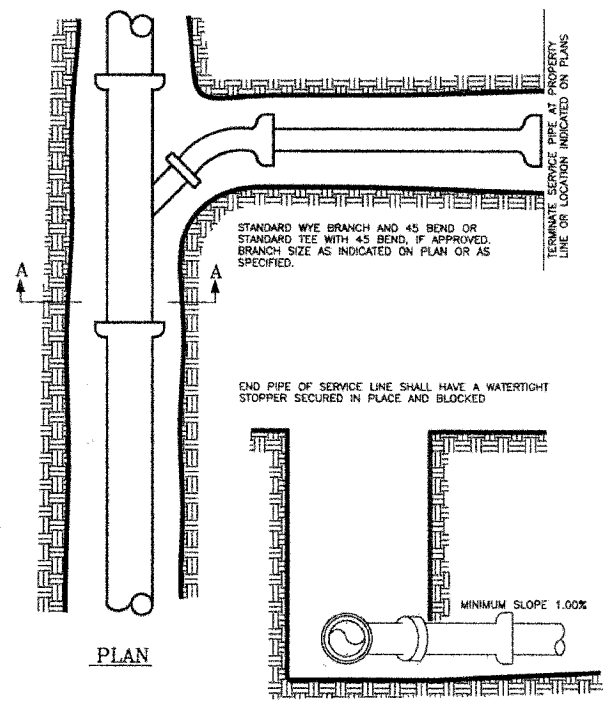
GRIST, ANHART, SCHLOEMER & ASSOCIATES, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 9501 N. Higgins Road, Suite 280
 Chicago, Illinois 60631
 (312) 339-0012

Hanson Road
 County Line to Edgewood
 Hor. Scale: 1" = 10'
 Vert. Scale: 1" = 5'

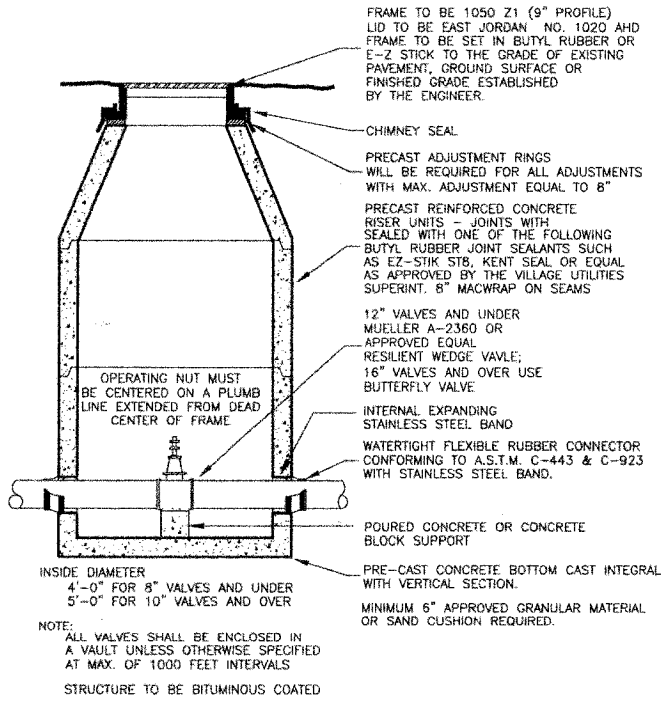
F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	00-00071-00-PV	McHENRY	31	28

ILLINOIS PROJECT
CONTRACT NO. 63001

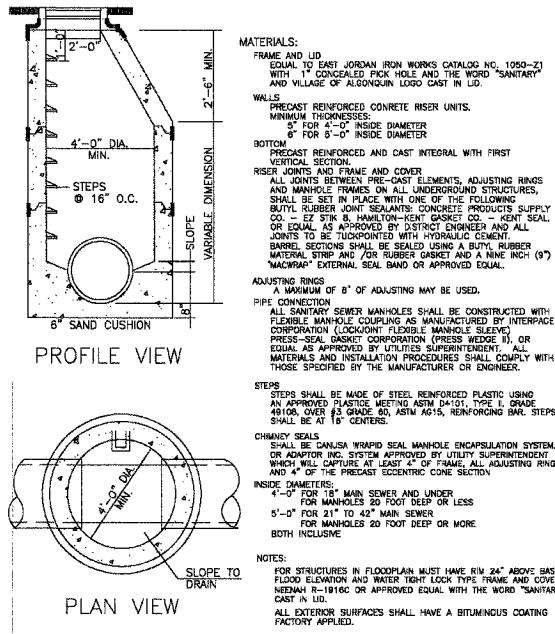
NOTE:
SERVICE PIPE SHALL BE OF THE TYPE SPECIFIED AND/OR ALLOWED BY THE MUNICIPALITY. IF DISSIMILAR FROM MAIN LINE SEWER, A NON-SHEAR COUPLING ADAPTER FITTING BY FERROVAC INC. SHALL BE USED. IF MANUFACTURED ADAPTER IS NOT AVAILABLE, METHOD AND MANNER OF CONNECTION OR JOINTING SHALL BE APPROVED BY THE ENGINEER IN WRITING PRIOR TO CONSTRUCTION.



SANITARY SERVICE



VALVE VAULT



SANITARY MANHOLE - TYPE A

MATERIALS:
FRAME AND LID EQUAL TO EAST JORDAN IRON WORKS CATALOG NO. 1020-21 WITH 1\"/>

WALLS:
PRECAST REINFORCED CONCRETE RISER UNITS, MINIMUM THICKNESSES: 5\"/>

BOTTOM:
PRECAST REINFORCED AND CAST INTEGRAL WITH FIRST VERTICAL SECTION.
RISER JOINTS AND FRAME AND COVER SHALL BE SET IN PLACE WITH ONE OF THE FOLLOWING BUTYL RUBBER JOINT SEALANTS: CONCRETE PRODUCERS SUPPLY CO. - EZ-STIK SIB, HAMILTON-KENT GASKET CO. - KENT SEAL, OR EQUAL AS APPROVED BY DISTRICT ENGINEER AND ALL JOINTS TO BE TOUCHUPPED WITH HYDRA-LIC CEMENT.
BARREL SECTIONS SHALL BE SEALED USING A BUTYL RUBBER MATERIAL STRIP AND/OR RUBBER GASKET AND A NINE INCH (9\") \"MACWRAP\" EXTERNAL SEAL BAND OR APPROVED EQUAL.

ADJUSTING RINGS:
A MAXIMUM OF 8\"/>

PIPE CONNECTION:
ALL SANITARY SEWER MANHOLES SHALL BE CONSTRUCTED WITH FLEXIBLE MANHOLE COUPLING AS MANUFACTURED BY INTERPACE CORPORATION (LOGGONIT FLEXIBLE MANHOLE SLEEVE) PRESS-SEAL GASKET CORPORATION (PRESS WEDGE 1), OR EQUAL AS APPROVED BY UTILITIES SUPERINTENDENT. ALL MATERIALS AND INSTALLATION PROCEDURES SHALL COMPLY WITH THOSE SPECIFIED BY THE MANUFACTURER OR ENGINEER.

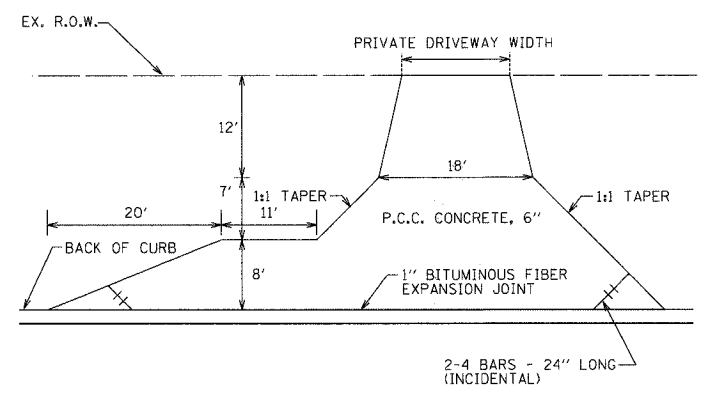
STEPS:
STEPS SHALL BE MADE OF STEEL REINFORCED PLASTIC USING AN APPROVED PLASTIC MEETING ASTM D4101, TYPE I GRADE 4810A, OVER #3 GRADE 60 ASTM A615, REINFORCING BARS. STEPS SHALL BE AT 16\"/>

CHIMNEY SEALS:
SHALL BE CANUSA WINDUP SEAL MANHOLE ENCAPULATION SYSTEM OR ADAPTOR INC. SYSTEM APPROVED BY UTILITIES SUPERINTENDENT WHICH WILL CAPTURE AT LEAST 4\"/>

INSIDE DIAMETERS:
4\"/>

NOTES:
FOR STRUCTURES IN FLOODPLAIN MUST HAVE R/W 24\"/>

ALL EXTERIOR SURFACES SHALL HAVE A BITUMINOUS COATING FACTORY APPLIED.



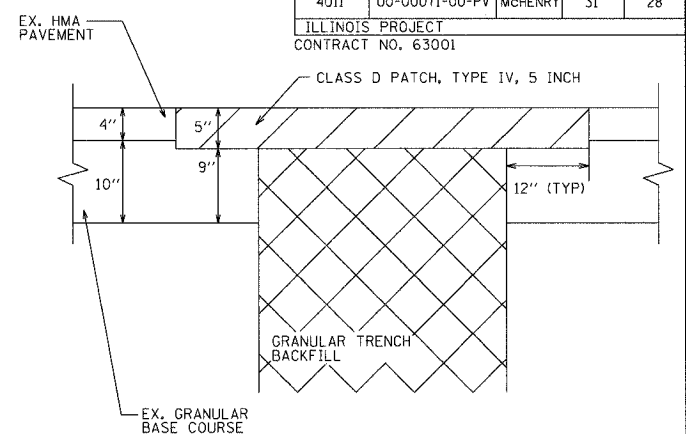
RESIDENTIAL ENTRANCE

CONSTRUCTION JOINTS SHALL BE PLACED IN A UNIFORM MANNER THAT ALLOWS NO SINGLE SLAB TO BE MORE THAN 10 FEET BY 10 FOOT DIMENSIONALLY.

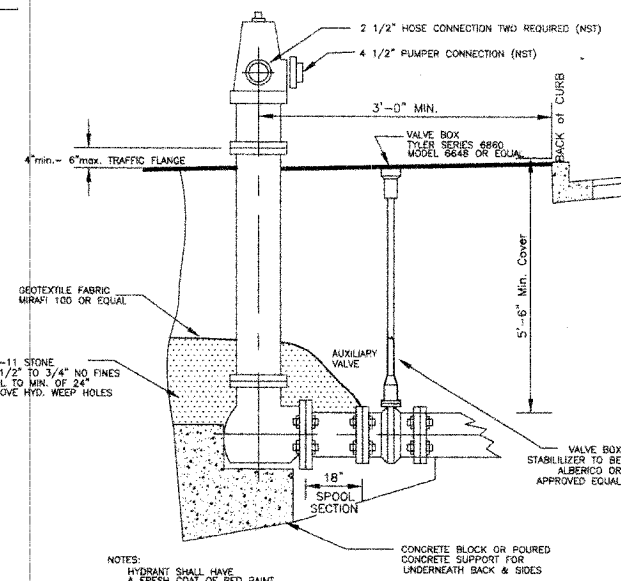
TRANSITION FROM FULL TO DEPRESSED CURB SHALL BE ACCOMPLISHED IN A MINIMUM OF 1 LINEAL FOOT.

A MINIMUM OF 4\"/>

APRON IS TO BE POURED SEPARATELY FROM SIDEWALK & CURB.

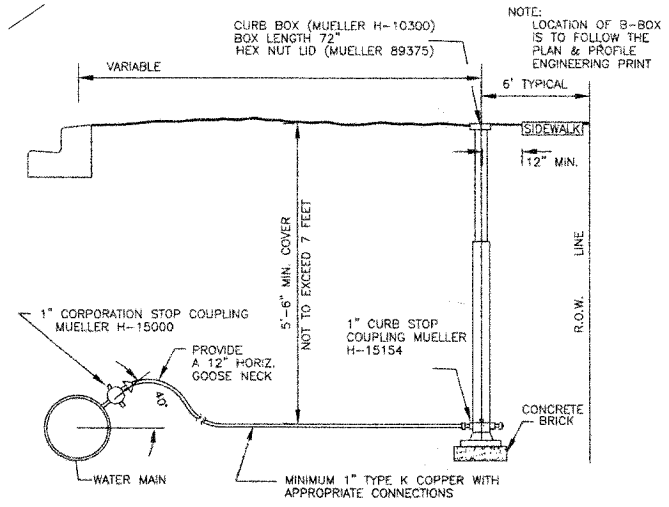


CLASS D PATCH DETAIL



HYDRANT WITH AUXILIARY VALVE AND VALVE BOX

NOTES:
HYDRANT SHALL HAVE A FRESH COAT OF RED PAINT AS MFG. BY HYDRA-HYDE.
CONCRETE SUPPORT AND/OR THRUST BLOCKING SHALL NOT BLOCK OR OBSTRUCT HYDRANT WEEP HOLES.
HYDRANT SHALL BE WATERLOUS P/CKER W667-230 WITH TRAFFIC FLANGE.
ALL JOINTS SHALL BE RESTRAINED JOINTS MEG-A-LUG TYPE.



DOMESTIC WATER SERVICE

NOTES:
ALL TAPS (2\"/>

WATER SERVICE CONNECTIONS TO WATER MAINS SHALL USE THE DRILLING AND TAPPING METHOD INTO A PRESSURIZED MAIN BY USING MUELLER MODEL B-101 MACHINE OR APPROVED EQUAL.

TAPPING SADDLE (BY APPROVAL ONLY):
317 ROCKWELL NYLON COATED SERVICE SADDLE DOUBLE STRAP, STAINLESS STEEL (ONLY TO BE USED WHEN APPROVED BY THE UTILITIES SUPERINTENDENT OR DIRECTOR OF PUBLIC WORKS).

WHERE STORM LINES ARE BETWEEN B-BOX AND HOUSE AND SHALLOWER THAN WATER SERVICE A SCHEDULE 40 PVC PIPE SHALL BE INSTALLED UNDER STORM LINE.

IF CURB BOX IS INSTALLED IN PAVEMENT AREAS EAST JORDAN V-8453

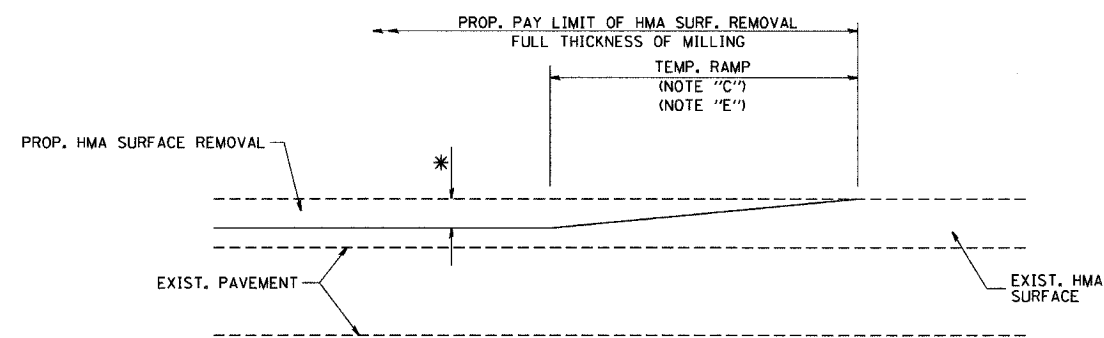
REVISIONS	NAME	DATE

HANSON ROAD IMPROVEMENTS COUNTY LINE TO EDGEWOOD CONSTRUCTION DETAILS

DATE: 12-18-07 DRAWN BY: AJR CHECKED BY: MAY

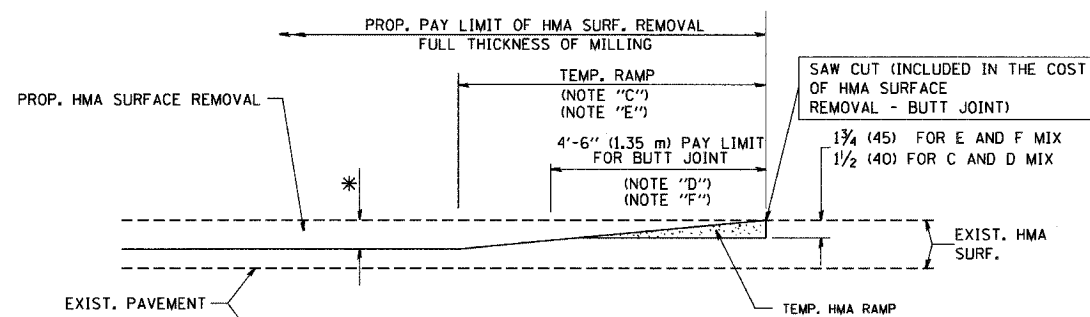
GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC. CHICAGO, ILLINOIS

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			31	29
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 63001				



MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

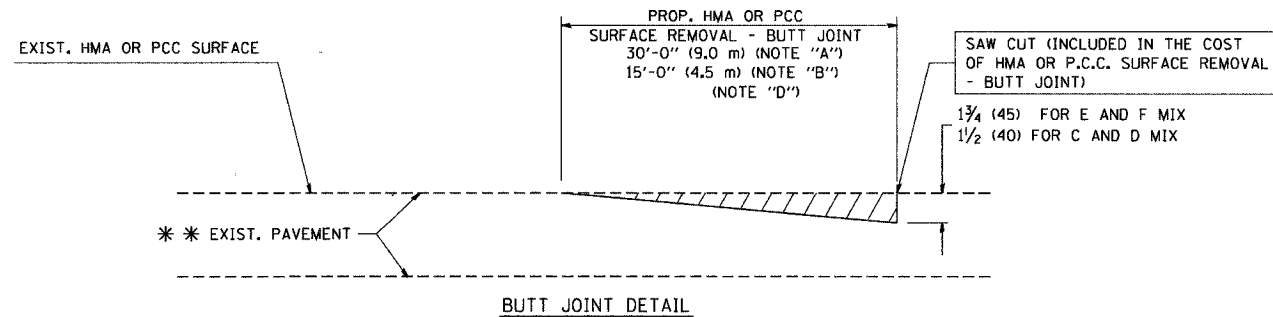
OPTION 1



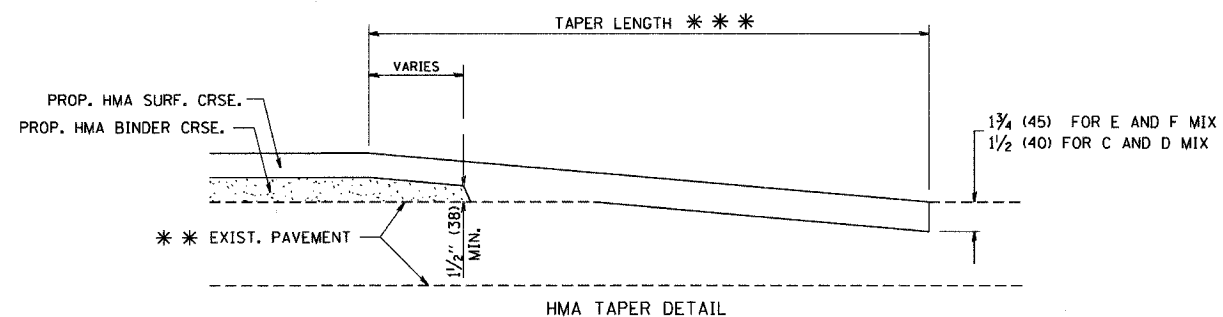
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

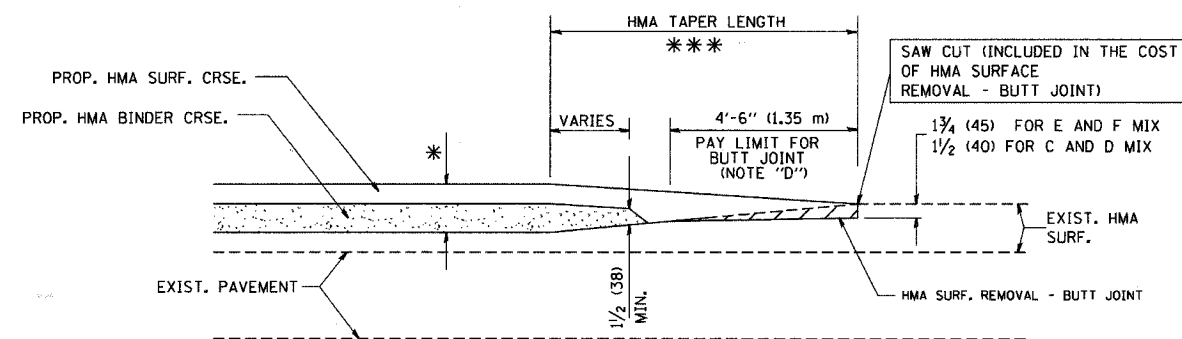
TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



BUTT JOINT AND
HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND
HMA TAPER
DETAILS

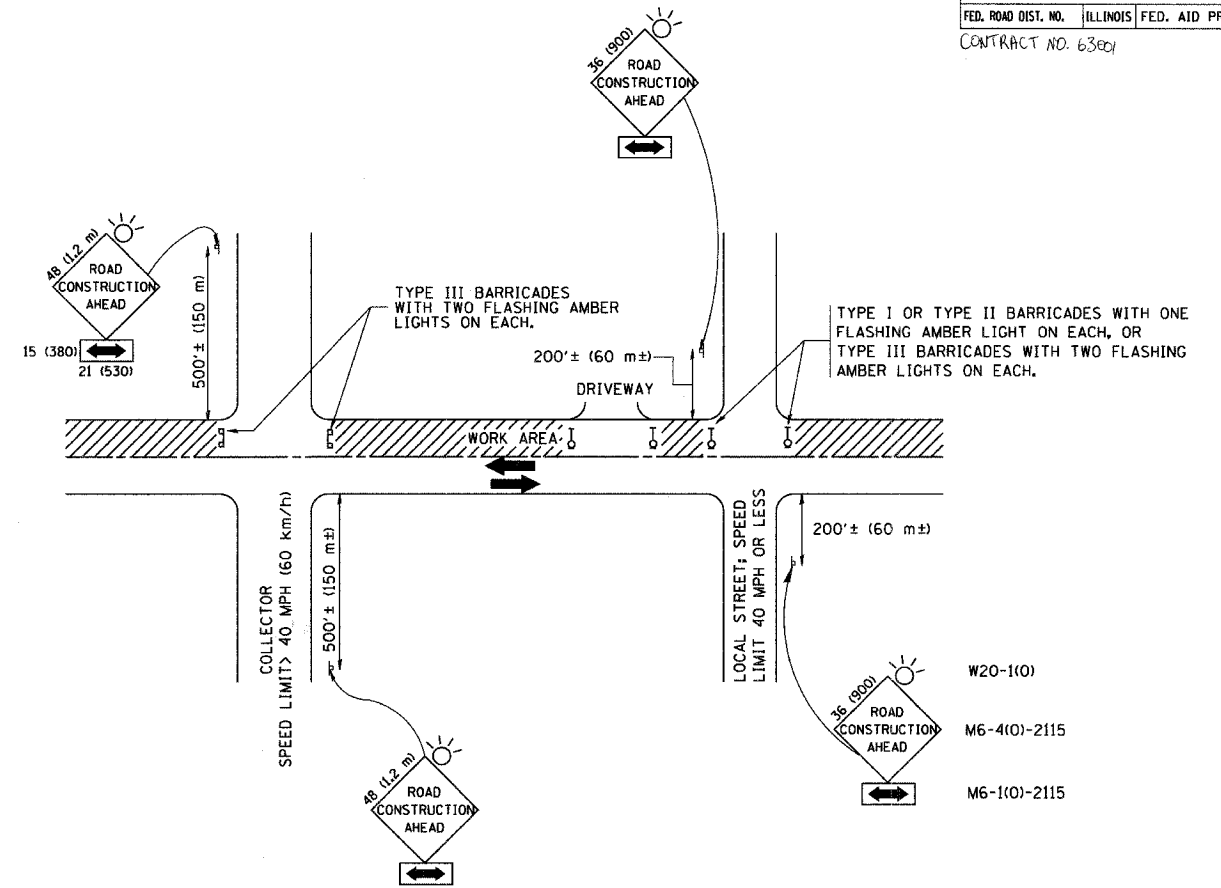
SCALE: VERT. NONE
HORIZ.

DRAWN BY
CHECKED BY

BD400-05 (VI-BD32)

PLOT DATE = 3/2/2007
 PLOT SCALE = 1/8" = 1'-0"
 USER NAME = bauer21

F.A. RY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			31	30
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 63601				



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown.

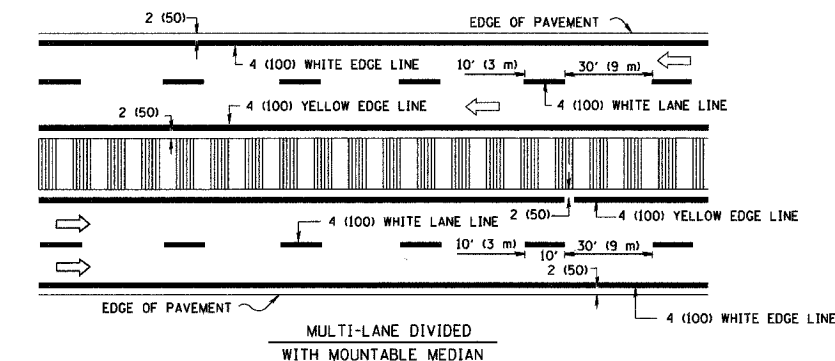
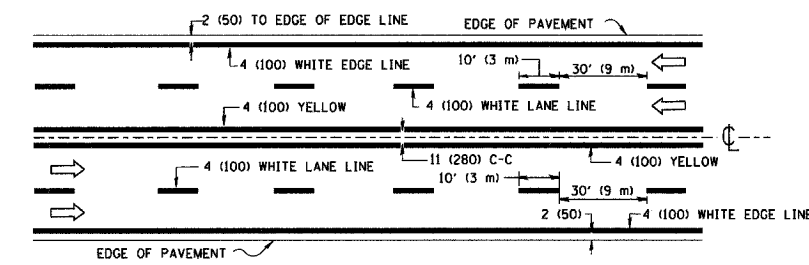
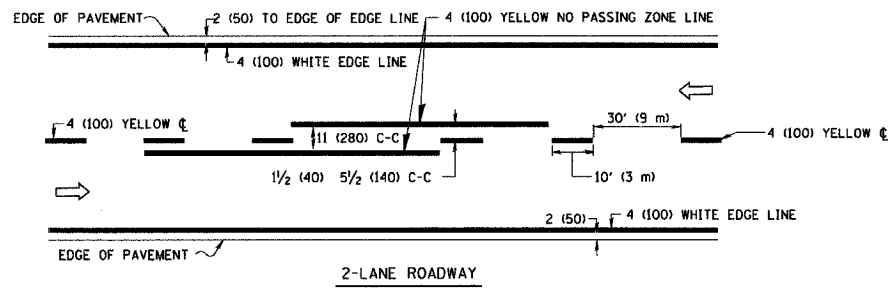
REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: NONE

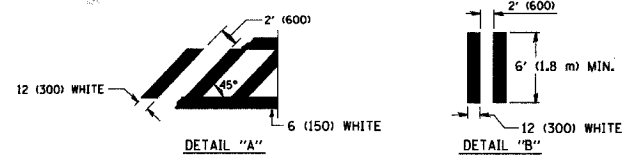
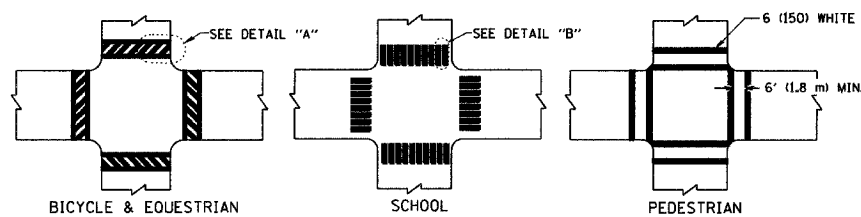
DRAWN BY
 CHECKED BY
 TC-10

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			31	31
STA. TO STA.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 6300				

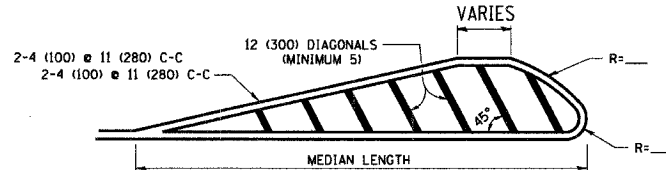
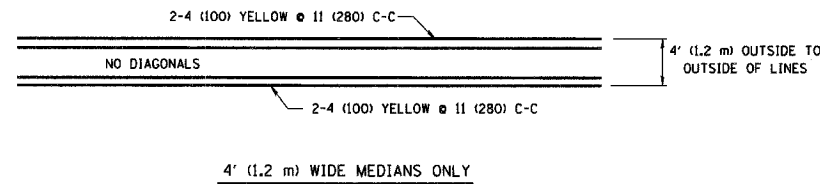


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

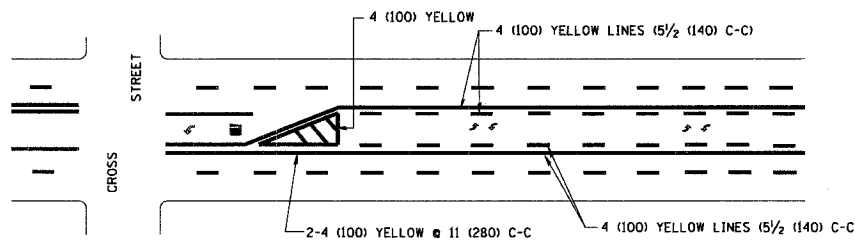


TYPICAL CROSSWALK MARKING



FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.
 DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

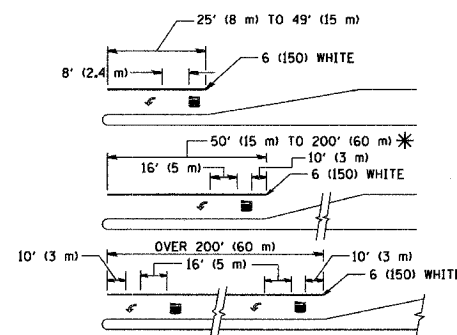


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



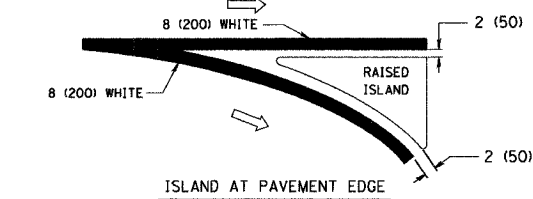
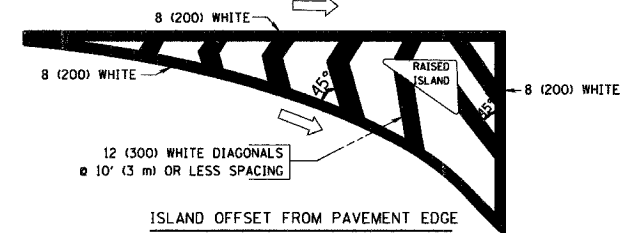
TYPICAL PAINTED MEDIAN MARKING

TYPICAL LEFT (OR RIGHT) TURN LANE MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.6 SO. FT. (1.5 m²) AREA = 20.8 SO. FT. (1.9 m²)
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO. FT. (0.33 m ²) EACH "X"=54.0 SO. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DISTRICT ONE
 TYPICAL PAVEMENT MARKINGS

SCALE: NONE

DRAWN BY CADD
 CHECKED BY
 TC-13