

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	07-00072-00-PV	McHENRY	80	1
ILLINOIS PROJECT				
CONTRACT NO. 63137				

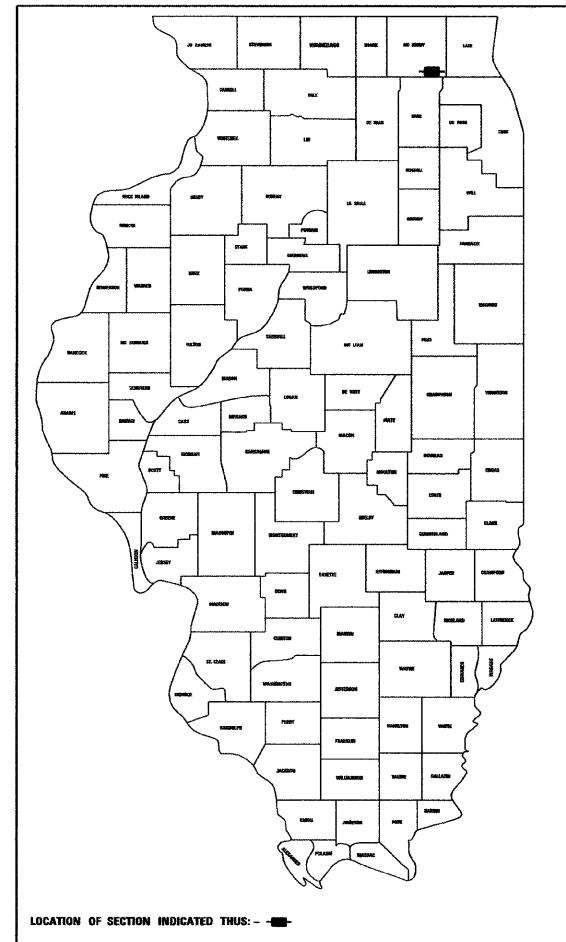
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY
FAU ROUTE 4011 / HANSON ROAD
EDGEWOOD DRIVE TO HUNTINGTON DRIVE
ROADWAY RECONSTRUCTION
PROJECT CMM - M-9003 (107)
JOB NO. C-91-105-09
SECTION NO. 07-00072-00-PV
VILLAGE OF ALGONQUIN
MCHENRY COUNTY

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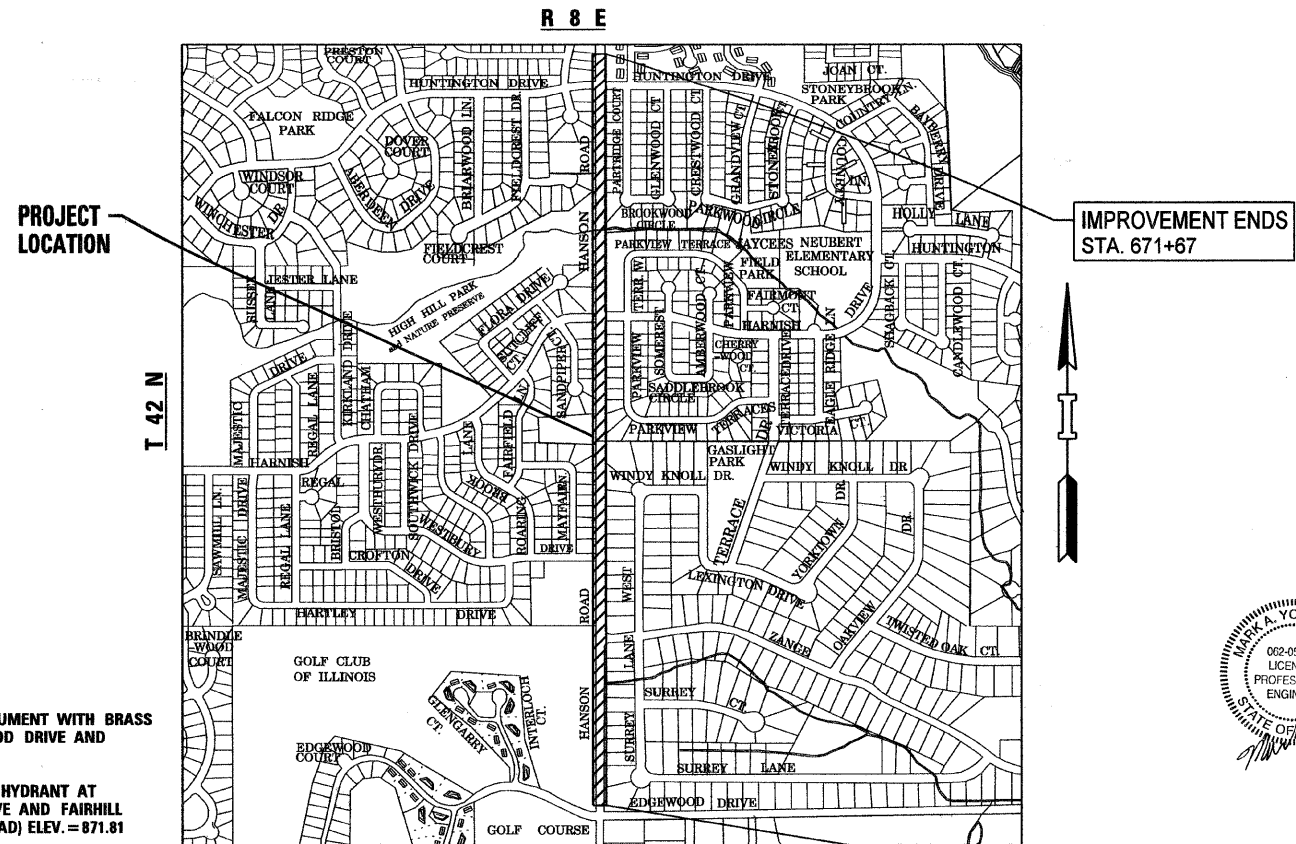
HIGHWAY STANDARDS

- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 280001-04 TEMPORARY EROSION CONTROL SYSTEMS
- 424001-05 CURB RAMPS FOR SIDEWALKS
- 442201-03 CLASS C AND D PATCHING
- 602001-01 CATCH BASIN, TYPE A
- 602301-02 INLET, TYPE A
- 602401-02 MANHOLE, TYPE A
- 602406-03 MANHOLE, TYPE A, 6' DIAMETER
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- 604006-04 FRAME AND GRATE, TYPE 3
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- 604036-02 GRATE, TYPE 8
- 606001-04 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
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- BLR 24-2 MAILBOX TURNOUT FOR LOCAL ROADS
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- BD 01 DRIVEWAY DETAILS DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >=15' (4.5 M)
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- BD 32 BUTT JOINT AND HMA PAVEMENT TAPER DETAILS
- BD 34 DETAILS FOR STEEL PLATE BEAM AND GUARD RAIL ADJACENT TO CURB AND GUTTER
- TC 10 TRAFFIC CONTROL AND PROTECTION FOR SIDE SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
- TC 13 DISTRICT 1 TYPICAL PAVEMENT MARKINGS



TRAFFIC DATA

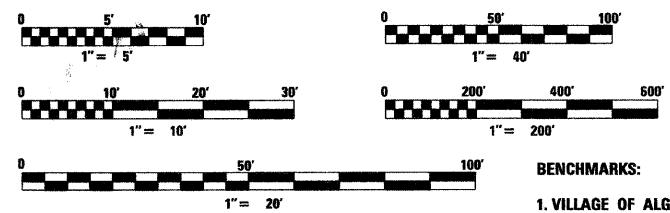
6,800 (2006) ADT
10,000 (2030) ADT
POSTED SPEED LIMIT 40 MPH



LOCATION MAP

NTS
PROJECT LENGTH = 5,691.7 LIN. FT. (1.08 MILES)

IMPROVEMENT BEGINS
STA. 614+75



BENCHMARKS:

1. VILLAGE OF ALGONQUIN CONCRETE MONUMENT WITH BRASS CAP AT SOUTHWEST CORNER OF EDGEWOOD DRIVE AND HANSON ROAD ELEV.=862.31
2. SOUTHEAST TOP FLANGE BOLT ON FIRE HYDRANT AT NORTHEAST CORNER OF HUNTINGTON DRIVE AND FAIRHILL COURT. (ONE BLOCK WEST OF HANSON ROAD) ELEV.=871.81
3. TOP FLANGE BOLT ON FIRE HYDRANT AT SOUTHWEST CORNER OF HARNISH DRIVE AND WEST PARKVIEW TERRACE. (ONE BLOCK EAST OF HANSON ROAD) ELEV.=861.17

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

CONTRACT NO. 63137

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED 3/31 2009

VILLAGE OF ALGONQUIN

PASSED APRIL 06 2009

DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID APRIL 07 2009
BASED ON LIMITED REVIEW

DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER



3/30/09
LIG. EXP. 11/30/09



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

**PRINTED BY THE
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STATE OF ILLINOIS**

I.D.O.T. FEDERAL-AID DESIGN ENGINEER: KEVIN STALLWORTH P.E. (847) 705-4169

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	07-00072-00-PV	McHENRY	00	2
ILLINOIS PROJECT				
CONTRACT NO. 63137				

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 RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2009 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 J.U.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. SIDEWALK CLOSURE SIGNS SHALL BE PLACED ON ALL SIDEWALKS ENTERING AREAS WHERE CONSTRUCTION IS BEING PERFORMED.
- 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 HANGAR CARD WITH ALL IMPORTANT CONSTRUCTION SCHEDULE INFORMATION DISPLAYED.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE ADJUTING PROPERTIES INTERSECTING ROADWAYS FOR THE OPERATION 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 INTERRUPTED 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 BY 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 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 DAHMAN, 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 OR FA-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. PEA GRAVEL WILL NOT BE PERMITTED.
- ALL STORM SEWER AND WATER MAIN SHALL BE BEDDED ON A MINIMUM 4" LAYER OF CA-6, CA-7, B, 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 CANJSA 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. PIPE INSTALLATION SHALL BE PAID AS PIPE UNDERDRAIN AND CONNECTION SHALL BE INCIDENTAL TO THE CONTRACT.
- UNLESS DIRECTED OTHERWISE, ALL FRAMES, LIDS, VALVES, AND HYDRANTS FROM UTILITIES 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.
- 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. REMOVAL OF FLARED END SECTIONS SHALL BE INCLUDED IN THE COST OF STORM SEWER REMOVAL.
- WATER MAINS SHALL BE PRESSURE TESTED PRIOR TO DISINFECTION. PRESSURE TESTING SHALL BE IN ACCORDANCE WITH THE ESTABLISHED VILLAGE STANDARD PROCEDURE AND SHALL BE SUPERVISED BY THE ENGINEER. THE CONTRACTOR SHALL NOTIFY THE WATER DEPARTMENT AT LEAST 48 HOURS PRIOR TO PRESSURE TESTING THE MAIN.
- WATER MAINS SHALL BE FLUSHED AND DISINFECTED FOLLOWING PRESSURE TESTING. FLUSHING AND DISINFECTION SHALL BE IN ACCORDANCE WITH ARTICLE 41-2.14 OF THE STANDARD SPECIFICATIONS AND VILLAGE REQUIREMENTS. THE CONTRACTOR SHALL NOTIFY WATER DEPARTMENT AT LEAST 48 HOURS PRIOR TO FLUSHING AND DISINFECTING THE MAIN.
- PRESSURE CONNECTIONS 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. TAPPING SLEEVES SHALL BE MUELLER 615. TAPPING VALVES SHALL BE RESILIENT WEDGE GATE VALVE NRS WITH MECHANICAL JOINTS. 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.

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 INLET FILTERS, 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, SEED, AND EROSION CONTROL BLANKET AS NOTED.
- 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 SEEDING AREAS IMMEDIATELY TO PREVENT EROSION AS NOTED IN THE RESTORATION PLANS.
- TEMPORARY DITCH CHECKS SHALL BE PLACED IN AREAS INDICATED IN THE PLANS OR AS DIRECTED BY THE FIELD ENGINEER. TEMPORARY DITCH CHECKS SHALL BE CONSTRUCTED WITH ROLLED EXCELSIOR PRODUCTS FROM IDOT'S APPROVED LIST OF MANUFACTURERS. MANUFACTURED DITCH CHECKS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
- TREES TO BE PLANTED SHALL HAVE A TRUNK DIAMETER (MEASURED TWELVE INCHES ABOVE THE GROUND) OF NOT LESS THAN THREE INCHES (3"). FOR CLARIFICATION OR A LIST OF APPROVED SPECIES, CONTACT STEVE LUDWIG, VILLAGE ARBORIST, AT (847) 658-2754 EXT. 411. NO MORE THAN TWENTY PERCENT (20%) OF ANY GENUS AND NO MORE THAN TEN PERCENT (10%) OF ANY SPECIES SHALL BE USED. ALL TREE SPECIES ARE SUBJECT TO APPROVAL BY THE ENGINEER. TREES SHALL BE BALLED AND BURLAPPED AND GROWN ACCORDING TO GOOD NURSERY PRACTICES AS SPECIFIED IN THE ARBORICULTURAL SPECIFICATIONS MANUAL. SYNTHETIC BURLAP AND ROPE PRODUCTS SHALL NOT BE USED. ALL TREES DELIVERED TO THE PROJECT IN BASKETS SHALL HAVE THE BASKETS ENTIRELY REMOVED PRIOR TO PLANTING. ALL TREES SHALL BE PLANTED IN A PLUMB POSITION, WITH THE BASAL FLARE RESIDING AT GRADE. STAKING OF TREES SHALL ONLY BE PERFORMED IF NECESSARY. STAKES SHALL REMAIN ON THE SPECIMENS FOR NO LONGER THAN ONE YEAR.
NO SOIL AMENDMENTS SHALL BE ALLOWED.
3" OF APPROVED DECORATIVE MULCH SHALL BE INSTALLED AT THE TIME OF PLANTING OVER THE ENTIRE ROOT ZONE.
- STRAW HAY BALES SHALL NOT BE USED AS EROSION PROTECTION FOR DITCH CHECKS AND INLET AND PIPE PROTECTION.

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 SEEDING AREAS FROM VEHICULAR AND FOOT TRAFFIC.
- ANY AREAS WHERE SEEDLING EMERGENCE IS POOR OR EROSION OCCURS SHALL BE RESEEDING.

REVISIONS	
NAME	DATE

HANSON ROAD IMPROVEMENTS
EDGEWOOD DRIVE TO HUNTINGTON DRIVE

GENERAL NOTES

DATE: 03-27-09

DRAWN BY: AJR
CHECKED BY: MAY

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

SUMMARY OF QUANTITIES

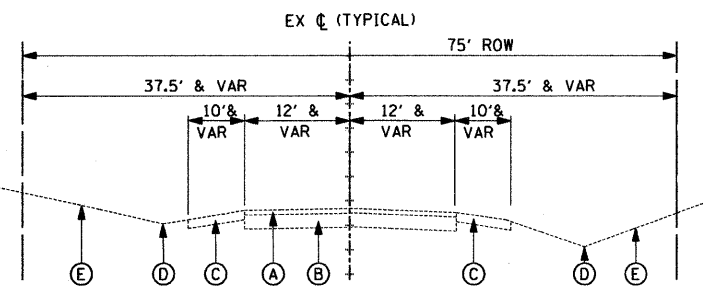
ITEM NUMBER	PAY ITEM DESCRIPTION	UNITS	TOTAL QUANTITY	ROADWAY 80% FEDERAL 20% LOCAL QUANTITY	CMAQ 80% FEDERAL 20% LOCAL QUANTITY	UTILITY 100% LOCAL QUANTITY (NON-PARTICIPATING ITEM)
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNITS	34	34		
20100500	TREE REMOVAL, ACRES	ACRE	0.35	0.35		
20101000	TEMPORARY FENCE	FOOT	676	676		
20101200	TREE ROOT PRUNING	EACH	30	30		
20200100	EARTH EXCAVATION	CU YD	11955	11955		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	4320	2690	1630	
20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	2690	2690		
20800150	TRENCH BACKFILL	CU YD	1365	1355		10
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	8300	8300		
* 21101615	TOPSOIL FURNISH AND PLACE, 4 INCH	SQ YD	17032	17032		
* 25000110	SEEDING, CLASS 1A	ACRE	3.1	3.1		
* 25000300	SEEDING, CLASS 3	ACRE	0.25	0.25		
* 25000310	SEEDING, CLASS 4	ACRE	0.1	0.1		
* 25000314	SEEDING CLASS 4B	ACRE	0.05	0.05		
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	315	315		
* 25000500	PHOSPHOROUS FERTILIZER NUTRIENT	POUND	315	315		
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	315	315		
* 25100630	EROSION CONTROL BLANKET	SQ YD	15590	15590		
* 25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	1200	1200		
* XX006570	TREES (SPECIAL)	EACH	5	5		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	300	300		
28000300	TEMPORARY DITCH CHECKS	EACH	30	30		
28000510	INLET FILTERS	EACH	110	110		
28000400	PERIMETER EROSION BARRIER	FOOT	12295	12295		
35101400	AGGREGATE BASE COURSE, TYPE B	TON	1580		1580	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	150	150		
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLONS	11110	11110		
40600300	AGGREGATE (PRIME COAT)	TON	103	103		
40600895	CONSTRUCTING TEST STRIP	EACH	2	2		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	16	16		
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	480		480	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	123	123		
40701846	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 8 1/4"	SQ YD	18791	18791		
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	194	194		
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	97	97		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	2239		2239	
42400800	DETECTABLE WARNINGS	SQ FT	252		252	
44000100	PAVEMENT REMOVAL	SQ YD	16802	16802		
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	1009	1009		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	230	230		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1350	1350		
44000600	SIDEWALK REMOVAL	SQ FT	1180	1180		
44201711	CLASS D PATCHES, TYPE IV, 5 INCH	SQ YD	42	42		
44300300	AREA REFLECTIVE CRACK CONTROL TREATMENT, SYSTEM A	SQ YD	18791	18791		
48101200	AGGREGATE SHOULDERS, TYPE B	TON	235		235	
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	585	585		
48301000	PROTECTIVE COAT	SQ YD	2450	2200	250	
* 50901720	BICYCLE RAILING	FOOT	261		261	
54001000	BOX CULVERT END SECTIONS	EACH	4	4		
54010605	PRECAST CONCRETE BOX CULVERT 6x5'	FOOT	104	104		
54215543	METAL END SECTIONS 8"	FOOT	1	1		
542D0213	PIPE CULVERTS, CLASS D, TYPE 1, 8"	FOOT	11	11		
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	1408	1408		
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	28	28		
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	1826	1826		
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	866	866		
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	1192	1192		
550A0400	STORM SEWERS, CLASS A, TYPE 2 21"	FOOT	79	79		

ITEM NUMBER	PAY ITEM DESCRIPTION	UNITS	TOTAL QUANTITY	ROADWAY 80% FEDERAL 20% LOCAL QUANTITY	CMAQ 80% FEDERAL 20% LOCAL QUANTITY	UTILITY 100% LOCAL QUANTITY (NON-PARTICIPATING ITEM)
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	230	230		
550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	138	138		
550A0710	STORM SEWERS, CLASS A, TYPE 3 24"	FOOT	38	38		
550A0750	STORM SEWERS, CLASS A, TYPE 3 36"	FOOT	72	72		
550B0120	STORM SEWERS, CLASS B, TYPE 1 24"	FOOT	194	194		
55100500	STORM SEWER REMOVAL 12"	FOOT	433	433		
55100700	STORM SEWER REMOVAL 15"	FOOT	365	365		
55100900	STORM SEWER REMOVAL 18"	FOOT	103	103		
55101200	STORM SEWER REMOVAL 24"	FOOT	275	275		
55101600	STORM SEWER REMOVAL 36"	FOOT	100	100		
55102100	STORM SEWER REMOVAL 60"	FOOT	201	201		
* 56105200	WATER VALVES 12"	EACH	1			1
* 56400500	FIRE HYDRANTS TO BE REMOVED	EACH	1			1
* 56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	6			6
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	39	39		
60107600	PIPE UNDERDRAINS 4"	FOOT	3092	3092		
60200305	CATCH BASINS, TYPE A, 4' DIAMETER, TYPE 3 FRAME AND GRATE	EACH	51	51		
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	8	8		
60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	23	23		
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5	5		
60221700	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 8 GRATE	EACH	2	2		
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2		
60224005	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 8 GRATE	EACH	2	2		
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	22	22		
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	4	4		
60248900	VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1			1
60500040	REMOVING MANHOLES	EACH	1	1		
60500050	REMOVING CATCH BASINS	EACH	4	4		
60500060	REMOVING INLETS	EACH	5	5		
60603800	COMBINATION CURB AND GUTTER, TYPE B-6.12	FOOT	10900	10900		
60604400	COMBINATION CURB AND GUTTER, TYPE B-6.18	FOOT	425	425		
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	1283	1283		
* 63000025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	30	30		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	8	8		
67100100	MOBILIZATION	L SUM	1	1		
70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1		
70102550	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	EACH	1	1		
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1		
70106800	CHANGEABLE MESSAGE SIGN	MONTH	24	24		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	10876	10876		
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	676	676		
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	190	190		
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	8	8		
XX0322923	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	950		950	
* XX001464	SANITARY SEWERS, PVC 6"	FOOT	18			18
XX002258	STRUCTURES TO BE ADJUSTED	EACH	24	24		
XX002209	STORM WATER TREATMENT STRUCTURES, 900 GALLONS	EACH	1	1		
XX005227	STORM WATER TREATMENT STRUCTURES, 2400 GALLONS	EACH	3	3		
Z0001050	AGGREGATE SUBGRADE, 12"	SQ YD	22545	22545		
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
△ Z0076600	TRAINEES	HOOR	500	500		

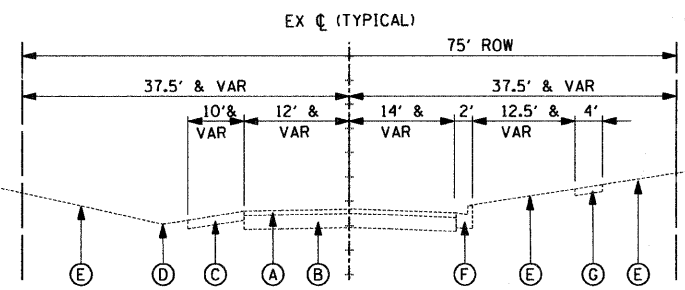
△ Y080
* SPECIALTY ITEMS

REVISIONS		<p>HANSON ROAD IMPROVEMENTS EDGEWOOD DRIVE TO HUNTINGTON DRIVE SUMMARY OF QUANTITIES</p> <p>DATE: 03-27-09</p> <p>DRAWN BY: AJR CHECKED BY: MAY</p> <p>GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC. CHICAGO, ILLINOIS</p>
NAME	DATE	

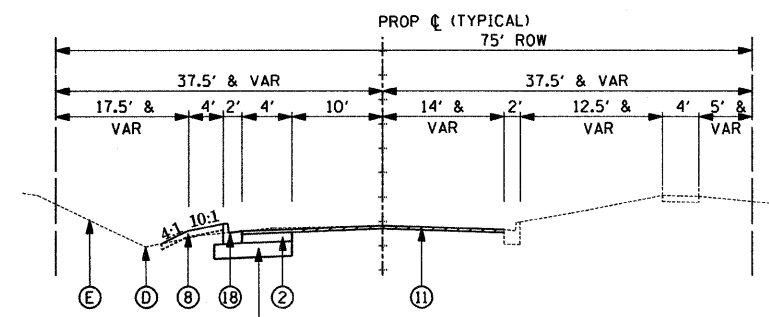
F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	07-00072-00-PV	McHENRY	80	4
ILLINOIS PROJECT CONTRACT NO. 63137				



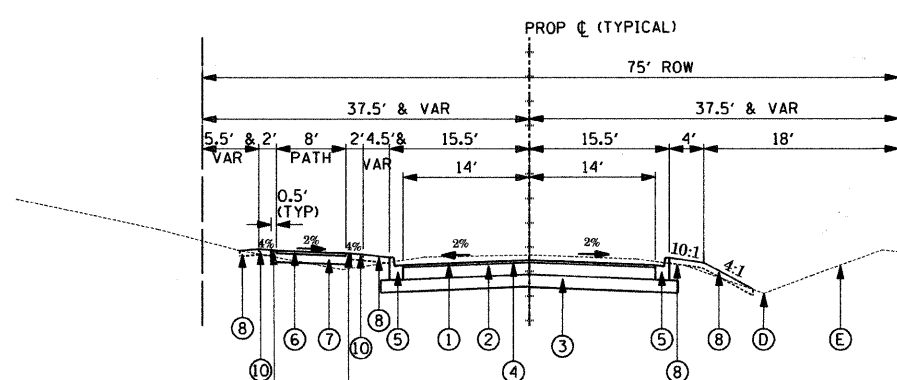
EXISTING TYPICAL SECTION
HANSON ROAD
EDGEWOOD DRIVE TO HUNTINGTON DRIVE
LOOKING NORTH
STA. 614+75 TO 667+00



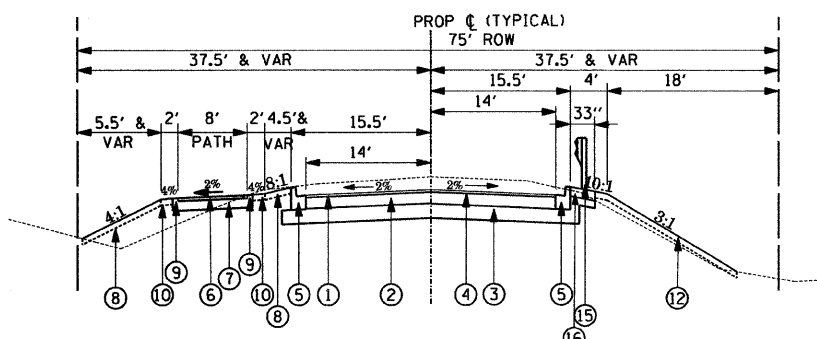
EXISTING TYPICAL SECTION
HANSON ROAD
NORTH OF HUNTINGTON DRIVE
LOOKING NORTH
STA. 667+00 TO 671+70



PROPOSED TYPICAL SECTION
HANSON ROAD
NORTH OF HUNTINGTON DRIVE
LOOKING NORTH
STA. 667+00 TO 671+70

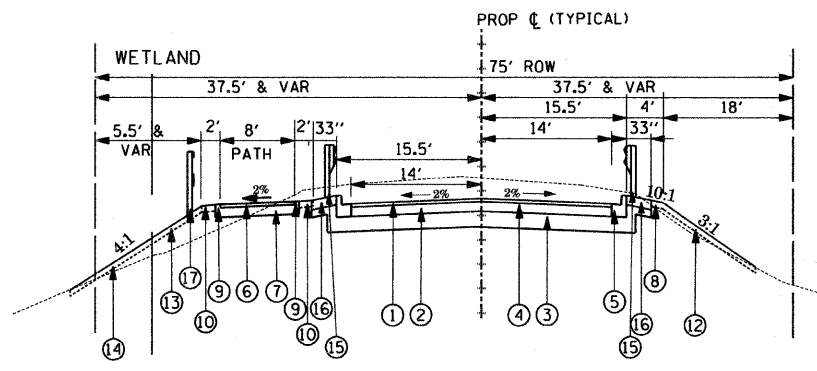


PROPOSED TYPICAL SECTION
HANSON ROAD
STA. 618+37 TO 621+73
STA. 626+61 TO 654+75
STA. 659+33 TO 667+00



PROPOSED TYPICAL SECTION
STA. 614+75 TO 618+37
STA. 621+73 TO 626+61
STA. 654+75 TO 656+77
STA. 657+28 TO 659+33

SEE SHEET 71 FOR TYP SECTION AT RETAINING WALL, STA. 623+50 TO 625+40 LT



PROPOSED TYPICAL SECTION
HANSON ROAD
STA. 656+77 TO 657+28

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
- (F) EXISTING B6.18 CURB & GUTTER
- (G) EXISTING SIDEWALK
- (1) HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50, 2" (ROADWAY)
- (2) HOT-MIX ASPHALT BINDER COURSE, IL-19, N50 (2 LIFTS), 6 1/4"
- (3) AGGREGATE SUBGRADE, 12"
- (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 SALT TOLERANT LAWN MIXTURE SEEDING & EROSION CONTROL BLANKET (MAX 4:1 SLOPE)
- (9) 0.5' WIDE AGGREGATE SHOULDER, TYPE B, 8"
- (10) 1.5' WIDE TURF GRADED SHOULDER
- (11) HMA RESURFACING - HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50, 2"
- (12) LANDSCAPE RESTORATION - 4" TOPSOIL (FURNISH AND PLACE), CLASS 3 SLOPE MIXTURE SEEDING & HEAVY DUTY EROSION CONTROL BLANKET (3:1 SLOPES AND STEEPER)
- (13) LANDSCAPE RESTORATION - 4" TOPSOIL (FURNISH AND PLACE), CLASS 4 NATIVE GRASS SEEDING & EROSION CONTROL BLANKET (BUFFER BETWEEN WETLAND AND BIKE PATH)
- (14) LANDSCAPE RESTORATION - 4" TOPSOIL (FURNISH AND PLACE), CLASS 4B WETLAND GRASS AND SEDGE MIXTURE SEEDING (WELAND AREAS)
- (15) ROADWAY GUARDRAIL
- (16) HOT MIX ASPHALT SHOULDER, 6"
- (17) BIKE RAILING
- (18) COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.18

- NOTE:
- PGE SUBGRADE IS REQUIRED FROM APPROXIMATE STA. 614+75 TO STA. 619+00, 622+50 TO 630+50 AND 653+00 TO 663+50. ACTUAL LIMITS AND ANY ADDITIONAL AREAS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
 - A CONTINGENCY QUANTITY OF GEOTECHNICAL FABRIC FOR GROUND STABILIZATION HAS BEEN PROVIDED FOR USE IN UNDERCUT AREAS. ACTUAL LIMITS AND ANY ADDITIONAL AREAS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
 - SEE RESTORATION PLANS FOR ADDITIONAL SEEDING INFORMATION.

MIX REQUIREMENT CHART

DESCRIPTION	MIXTURE TYPE	AC TYPE	AIR VOIDS
HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 8 1/4"	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50 (IL-9.5 mm), 2"	PG 64-22	4% @ 50 GYR.
	HOT-MIX ASPHALT BINDER COURSE, IL-19, N50, 6 1/4"	PG 64-22 *	4% @ 50 GYR.
HMA RESURFACING, 2"	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50 (IL-9.5 mm), 2"	PG 64-22	4% @ 50 GYR.
HMA PATH, 2"	HOT-MIX ASPHALT CONCRETE SURFACE COURSE, MIX C, N50 (IL-9.5 mm), 2"	PG 64-22	4% @ 50 GYR.
CLASS D PATCH, 5"	CLASS D PATCHES, TYPE IV (HMA BINDER, IL-19 mm), 5"	PG 64-22 *	4% @ 70 GYR.

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

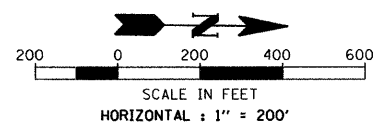
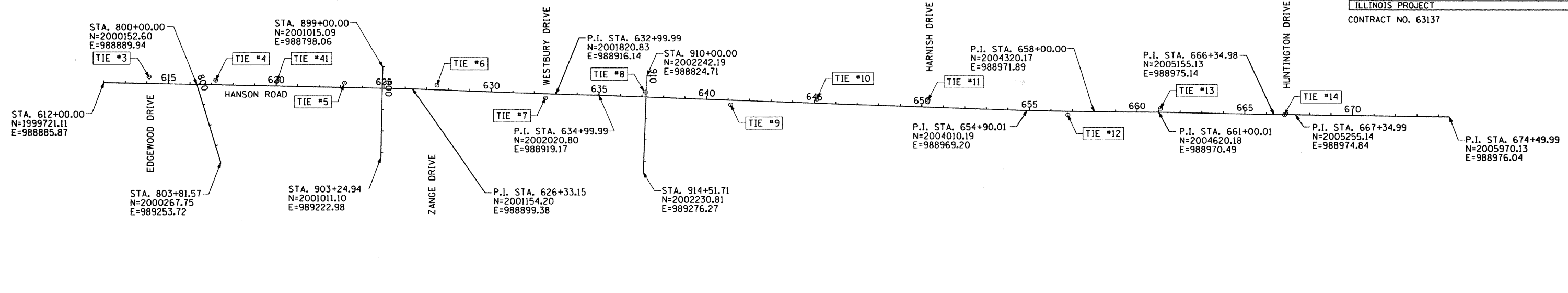
POROUS GRANULAR EMBANKMENT, SUBGRADE (PGES) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT ARE CONSIDERED TO BE UNSTABLE OR SUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE SAME TIME OF CONSTRUCTION BY A QUALIFIED SOILS INSPECTOR. 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.

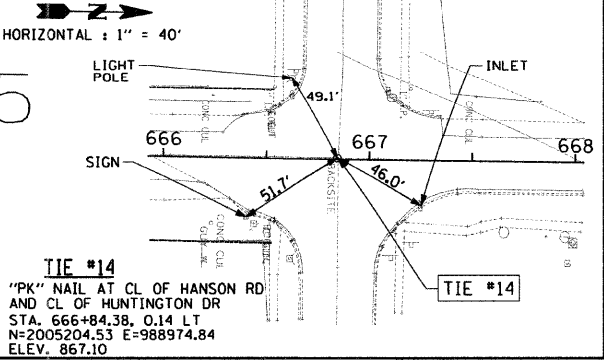
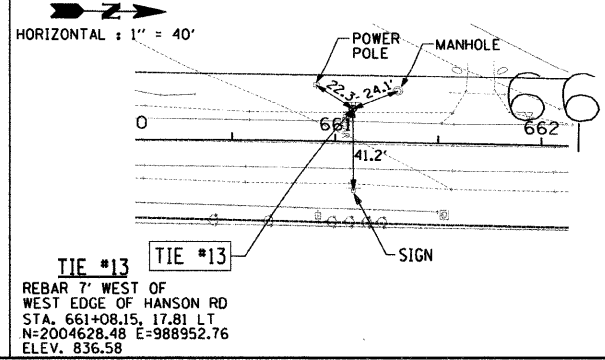
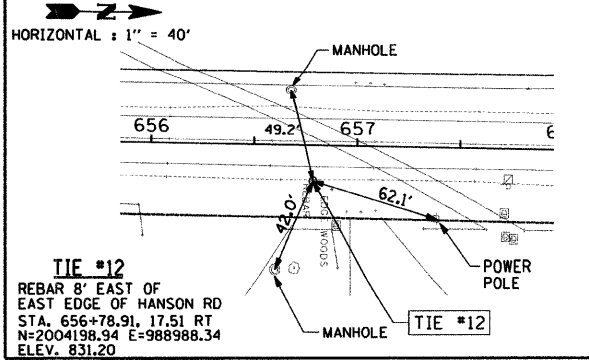
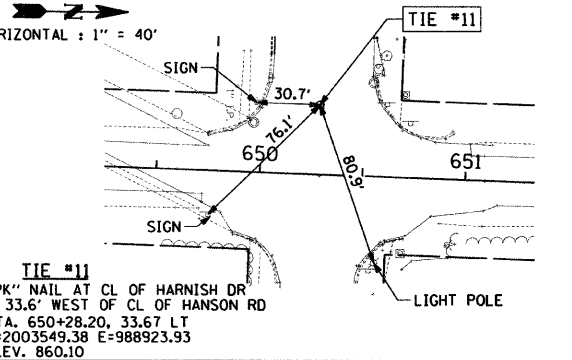
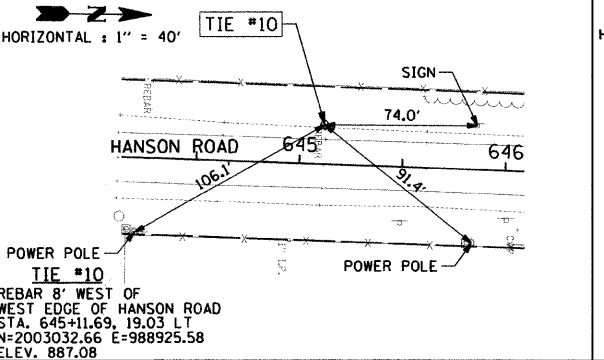
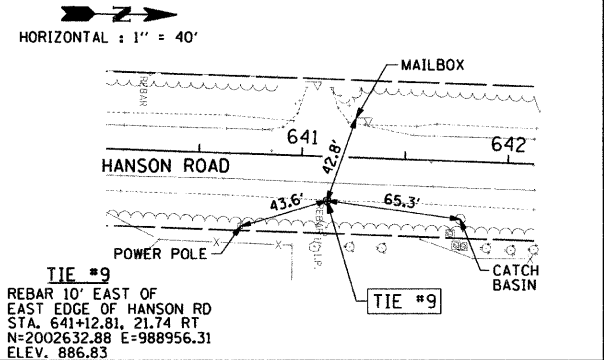
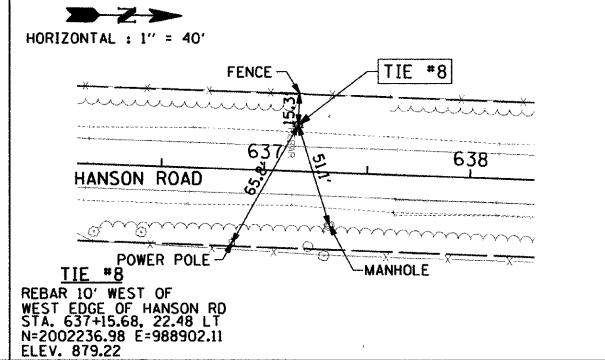
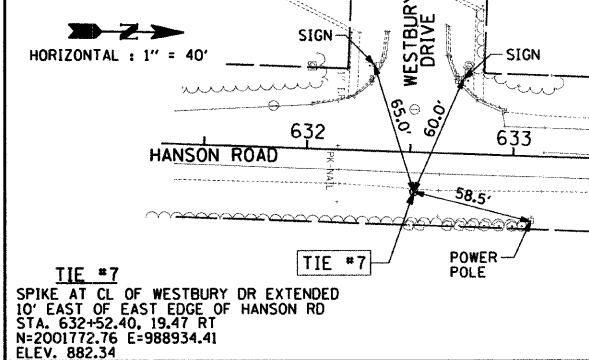
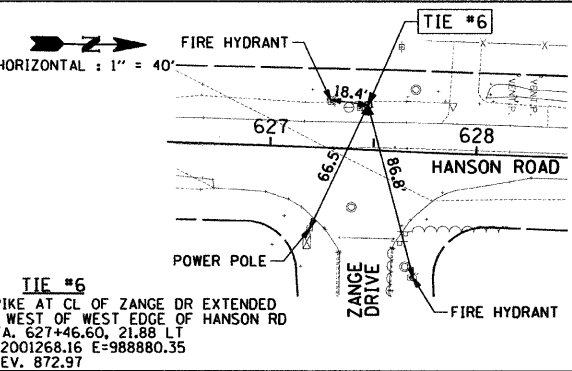
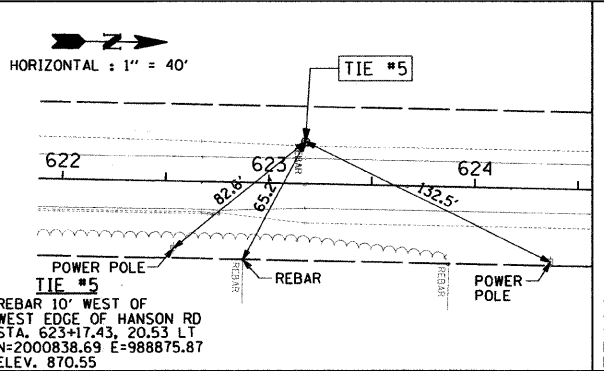
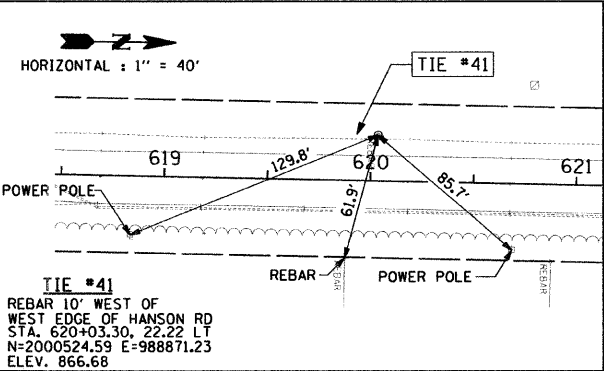
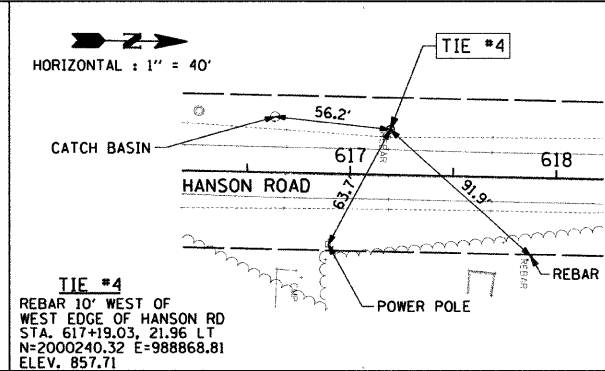
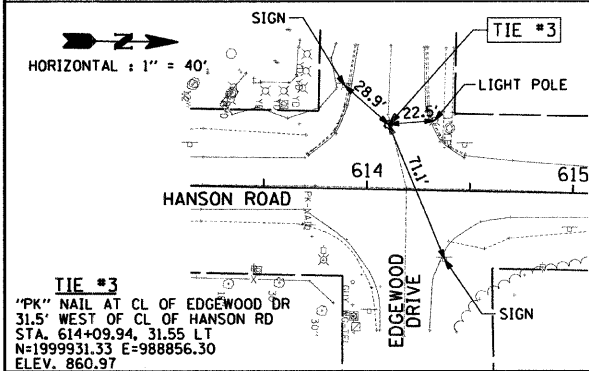
REVISIONS		NAME	DATE
HANSON ROAD IMPROVEMENTS EDGEWOOD DRIVE TO HUNTINGTON DRIVE TYPICAL SECTIONS			
DATE: 03-27-09			DRAWN BY: AJR CHECKED BY: MAY
GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC. CHICAGO, ILLINOIS			

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	07-00072-00-PV	McHENRY	80	5

ILLINOIS PROJECT
CONTRACT NO. 63137



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



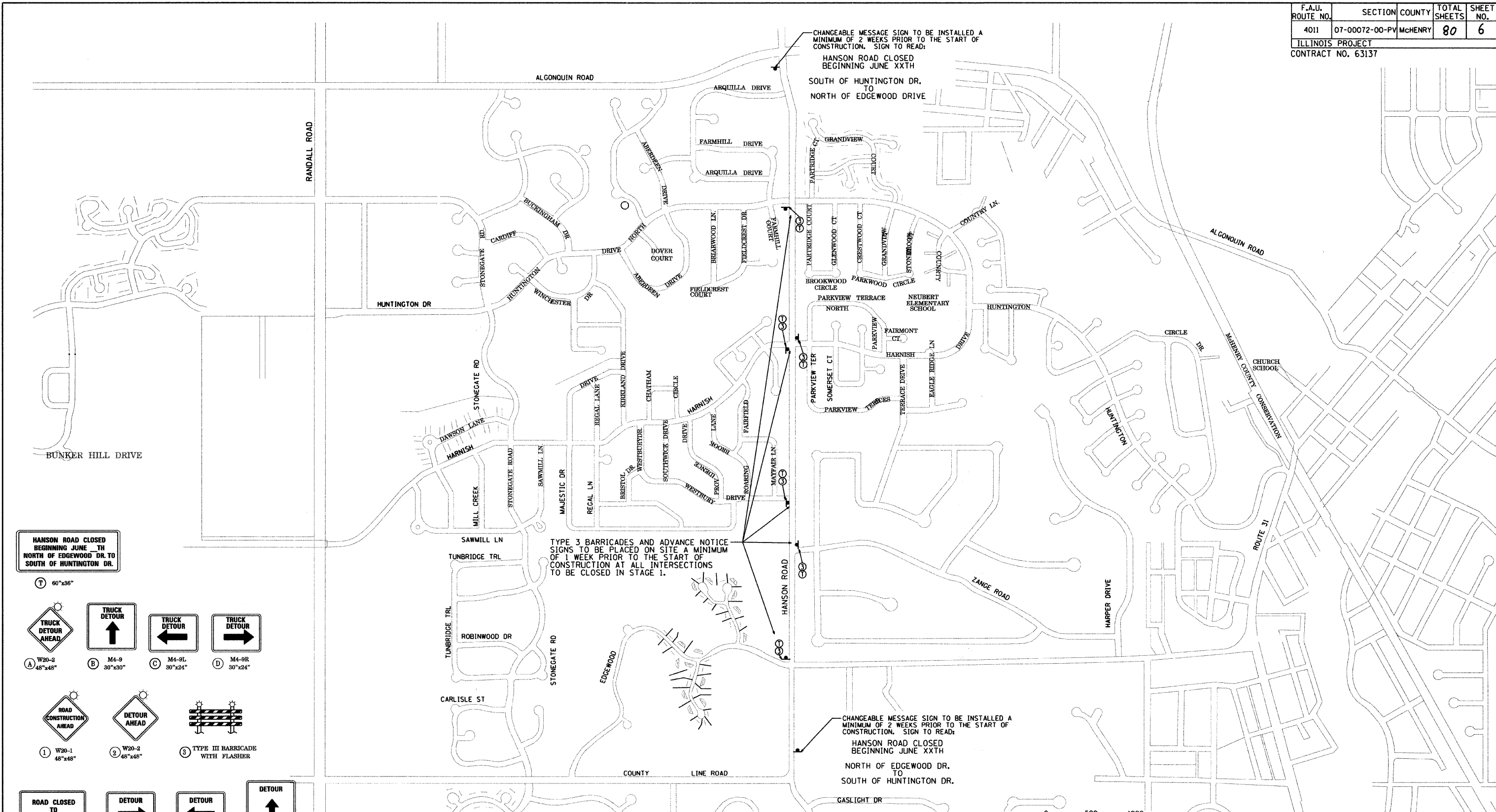
REVISIONS		NAME	DATE
NO.	DESCRIPTION		

HANSON ROAD IMPROVEMENTS
EDGEWOOD DRIVE TO HUNTINGTON DRIVE ALIGNMENT AND TIES

DATE: 03-27-09 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	07-00072-00-PV	McHENRY	80	6
ILLINOIS PROJECT				
CONTRACT NO. 63137				



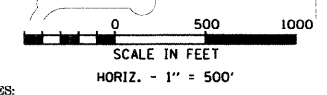
HANSON ROAD CLOSED BEGINNING JUNE XXTH NORTH OF EDGEWOOD DR. TO SOUTH OF HUNTINGTON DR.

CHANGEABLE MESSAGE SIGN TO BE INSTALLED A MINIMUM OF 2 WEEKS PRIOR TO THE START OF CONSTRUCTION. SIGN TO READ: HANSON ROAD CLOSED BEGINNING JUNE XXTH SOUTH OF HUNTINGTON DR. TO NORTH OF EDGEWOOD DRIVE

CHANGEABLE MESSAGE SIGN TO BE INSTALLED A MINIMUM OF 2 WEEKS PRIOR TO THE START OF CONSTRUCTION. SIGN TO READ: HANSON ROAD CLOSED BEGINNING JUNE XXTH NORTH OF EDGEWOOD DR. TO SOUTH OF HUNTINGTON DR.

TYPE 3 BARRICADES AND ADVANCE NOTICE SIGNS TO BE PLACED ON SITE A MINIMUM OF 1 WEEK PRIOR TO THE START OF CONSTRUCTION AT ALL INTERSECTIONS TO BE CLOSED IN STAGE 1.

- (T) 60"x36"
- (A) W20-2 48"x48" TRUCK DETOUR AHEAD
- (B) M4-9 30"x30" TRUCK DETOUR
- (C) M4-9L 30"x24" TRUCK DETOUR
- (D) M4-9R 30"x24" TRUCK DETOUR
- (1) W20-1 48"x48" ROAD CONSTRUCTION AHEAD
- (2) W20-2 48"x48" DETOUR AHEAD
- (3) TYPE III BARRICADE WITH FLASHER
- (4) R11-4 60"x30" ROAD CLOSED TO THRU TRAFFIC
- (5) M4-9R 30"x24" DETOUR
- (6) M4-9L 30"x24" DETOUR
- (7) M4-9 30"x30" DETOUR
- (8) 30"x24" SOUTHBOUND HANSON ROAD
- (9) 36"x30" NORTHBOUND HANSON RD NORTH OF EDGEWOOD DR
- (10) 30"x24" NORTHBOUND HANSON ROAD
- (11) 30"x24" TO COUNTY LINE ROAD
- (12) 30"x24" DETOUR
- (13) 30"x24" TO HUNTINGTON DRIVE
- (14) 30"x18" HANSON ROAD
- (15) W20-3 48"x48" ROAD CLOSED AHEAD
- (16) 36"x30" SOUTHBOUND HANSON RD SOUTH OF HUNTINGTON DR
- (17) 36"x30" WESTBOUND HARNISH DRIVE AT HANSON ROAD
- (18) 30"x24" WESTBOUND HARNISH DRIVE
- (19) 36"x30" EASTBOUND HARNISH DRIVE AT HANSON ROAD
- (20) 30"x24" EASTBOUND HARNISH DRIVE
- (21) M4-8A 24"x18" END DETOUR



- 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.

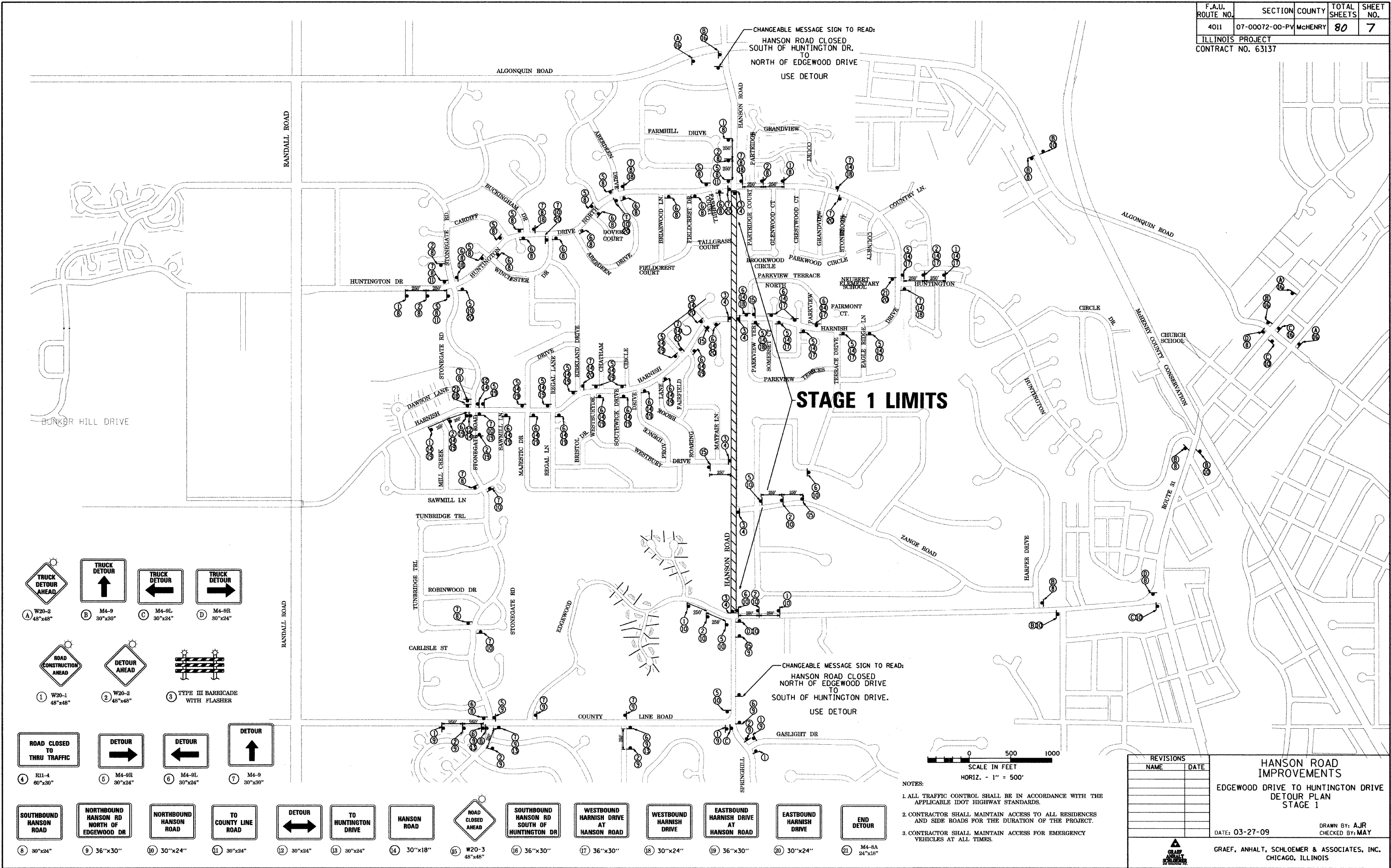
REVISIONS	
NAME	DATE

HANSON ROAD IMPROVEMENTS
 EDGEWOOD DRIVE TO HUNTINGTON DRIVE
 DETOUR PLAN
 PRE-STAGE

DATE: 03-27-09
 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	07-00072-00-PV	McHENRY	80	7
ILLINOIS PROJECT				
CONTRACT NO. 63137				



TRUCK DETOUR AHEAD

TRUCK DETOUR

TRUCK DETOUR

TRUCK DETOUR

W20-2 48"x48"

M4-9 30"x30"

M4-9L 30"x24"

M4-9R 30"x24"

ROAD CONSTRUCTION AHEAD

DETOUR AHEAD

TYPE III BARRICADE WITH FLASHER

W20-1 48"x48"

W20-2 48"x48"

ROAD CLOSED TO THRU TRAFFIC

DETOUR

DETOUR

DETOUR

R11-4 60"x30"

M4-9R 30"x24"

M4-9L 30"x24"

M4-9 30"x30"

SOUTHBOUND HANSON ROAD

NORTHBOUND HANSON RD NORTH OF EDGEWOOD DR

NORTHBOUND HANSON ROAD

TO COUNTY LINE ROAD

DETOUR

TO HUNTINGTON DRIVE

HANSON ROAD

ROAD CLOSED AHEAD

SOUTHBOUND HANSON RD SOUTH OF HUNTINGTON DR

WESTBOUND HARNISH DRIVE AT HANSON ROAD

WESTBOUND HARNISH DRIVE

EASTBOUND HARNISH DRIVE AT HANSON ROAD

EASTBOUND HARNISH DRIVE

END DETOUR

30"x24"

36"x30"

30"x24"

30"x24"

30"x24"

30"x24"

30"x18"

W20-3 48"x48"

36"x30"

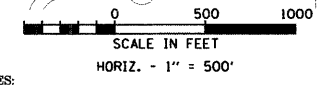
36"x30"

30"x24"

36"x30"

30"x24"

M4-8A 24"x38"



- NOTES:
1. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE APPLICABLE IDOT HIGHWAY STANDARDS.
 2. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL RESIDENCES AND SIDE ROADS FOR THE DURATION OF THE PROJECT.
 3. CONTRACTOR SHALL MAINTAIN ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES.

REVISIONS	
NAME	DATE

HANSON ROAD IMPROVEMENTS

EDGEWOOD DRIVE TO HUNTINGTON DRIVE

DETOUR PLAN

STAGE 1

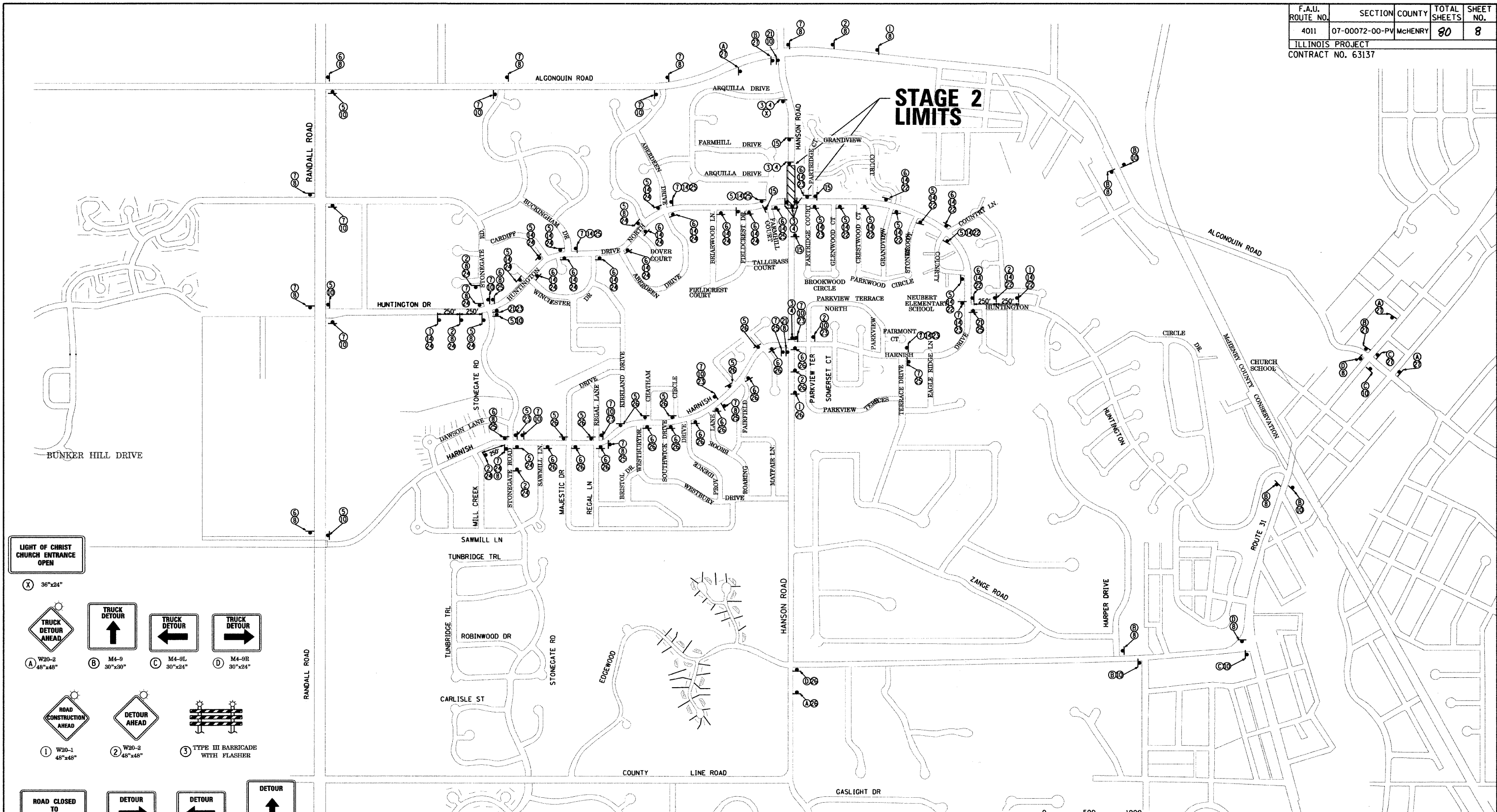
DATE: 03-27-09

DRAWN BY: AJR

CHECKED BY: MAY

GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC.

CHICAGO, ILLINOIS



LIGHT OF CHRIST CHURCH ENTRANCE OPEN

(X) 36"x24"

(A) W20-2 48"x48" **TRUCK DETOUR AHEAD**

(B) M4-9 30"x30" **TRUCK DETOUR** (Up Arrow)

(C) M4-9L 30"x24" **TRUCK DETOUR** (Left Arrow)

(D) M4-9R 30"x24" **TRUCK DETOUR** (Right Arrow)

(1) W20-1 48"x48" **ROAD CONSTRUCTION AHEAD**

(2) W20-2 48"x48" **DETOUR AHEAD**

(3) TYPE III BARRICADE WITH FLASHER

(4) R11-4 60"x30" **ROAD CLOSED TO THRU TRAFFIC**

(5) M4-9R 30"x24" **DETOUR** (Right Arrow)

(6) M4-9L 30"x24" **DETOUR** (Left Arrow)

(7) M4-9 30"x30" **DETOUR** (Up Arrow)

(8) 30"x24" **SOUTHBOUND HANSON ROAD**

(10) 30"x24" **NORTHBOUND HANSON ROAD**

(11) 30"x24" **TO COUNTY LINE ROAD**

(12) 30"x24" **DETOUR** (Double Arrow)

(13) 30"x24" **TO HUNTINGTON DRIVE**

(14) 30"x18" **HANSON ROAD**

(15) W20-3 48"x48" **ROAD CLOSED AHEAD**

(21) M4-8A 24"x18" **END DETOUR**

(22) 36"x30" **WESTBOUND HUNTINGTON DR AT HANSON ROAD**

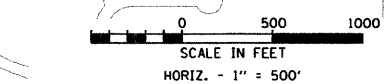
(23) 30"x24" **WESTBOUND HUNTINGTON DRIVE**

(24) 36"x30" **EASTBOUND HUNTINGTON DR AT HANSON ROAD**

(25) 30"x24" **EASTBOUND HUNTINGTON DRIVE**

(26) 36"x30" **NORTHBOUND HANSON RD AT HUNTINGTON DR**

(27) 36"x30" **SOUTHBOUND HANSON RD AT HUNTINGTON DR**



- NOTES:
1. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE APPLICABLE IDOT HIGHWAY STANDARDS.
 2. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL RESIDENCES AND SIDE ROADS FOR THE DURATION OF THE PROJECT.
 3. CONTRACTOR SHALL MAINTAIN ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES.

REVISIONS	
NAME	DATE

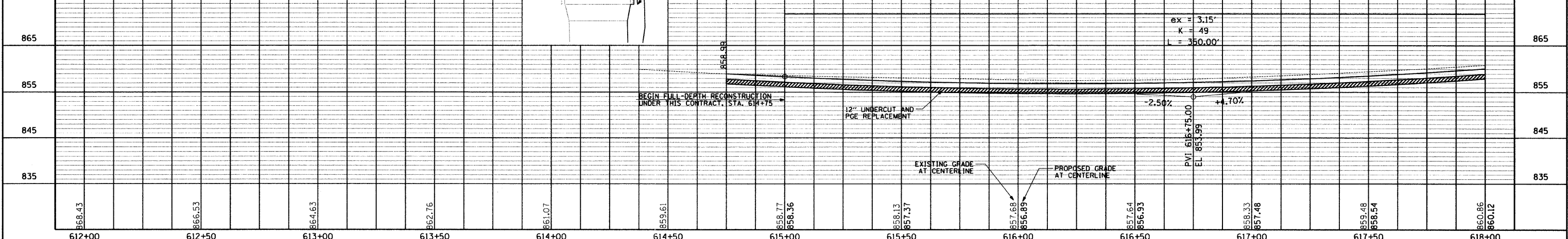
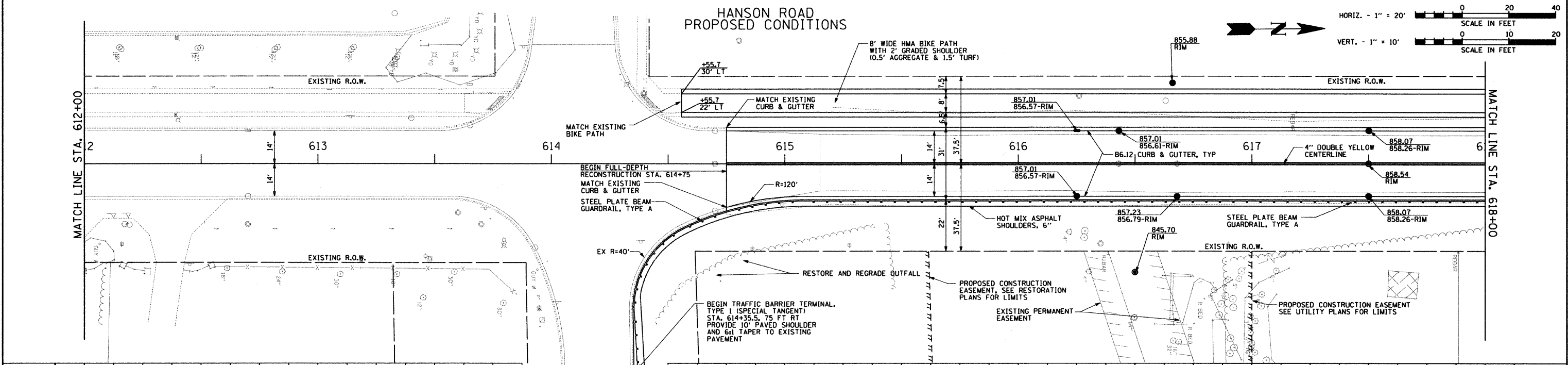
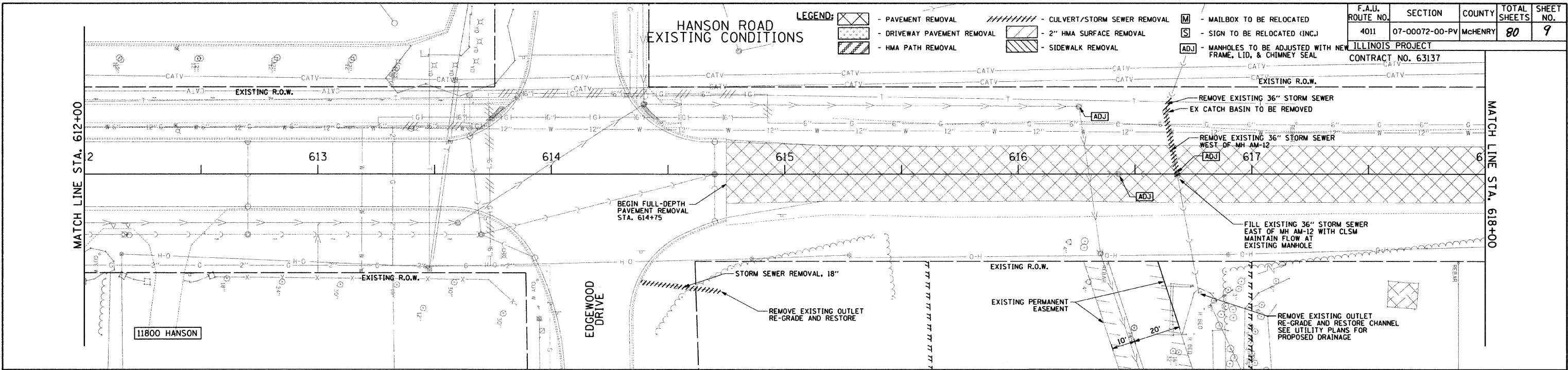
HANSON ROAD IMPROVEMENTS
 EDGEWOOD DRIVE TO HUNTINGTON DRIVE
 DETOUR PLAN
 STAGE 2

DATE: 03-27-09

DRAWN BY: AJR
 CHECKED BY: MAY

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

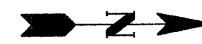
- LEGEND:**
- PAVEMENT REMOVAL
 - DRIVEWAY PAVEMENT REMOVAL
 - HMA PATH REMOVAL
 - CULVERT/STORM SEWER REMOVAL
 - 2" HMA SURFACE REMOVAL
 - SIDEWALK REMOVAL
 - MAILBOX TO BE RELOCATED
 - SIGN TO BE RELOCATED (INC.)
 - MANHOLES TO BE ADJUSTED WITH NEW FRAME, LID, & CHIMNEY SEAL



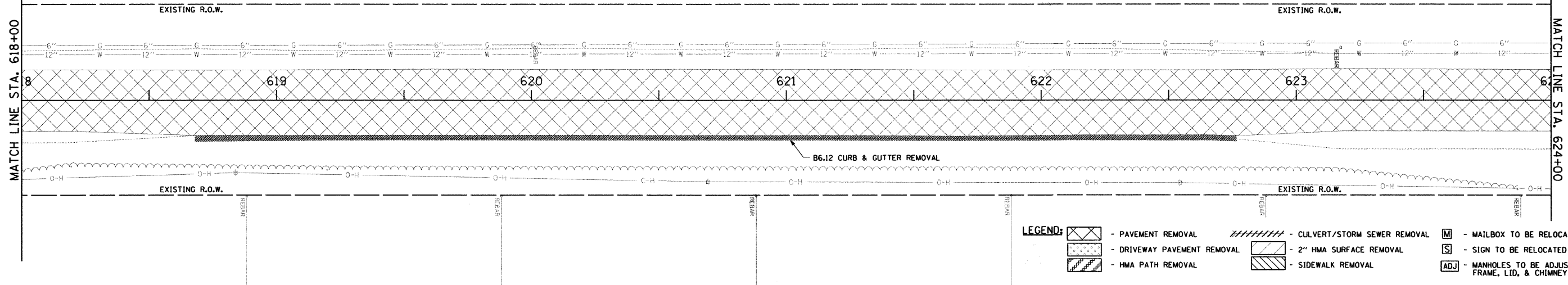
PLAN AND PROFILE

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

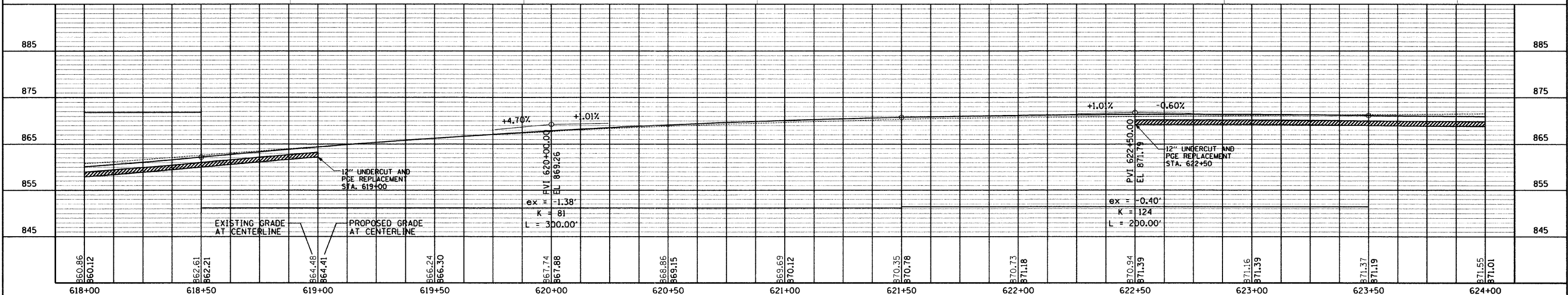
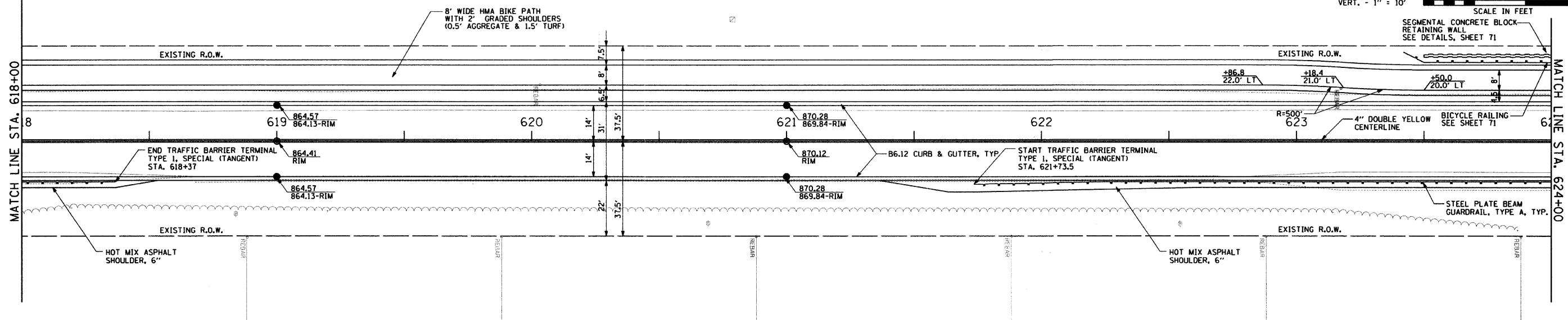
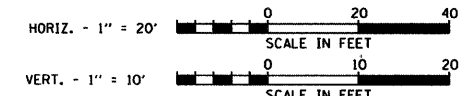
HANSON ROAD
EXISTING CONDITIONS



F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	07-00072-00-PV	McHENRY	80	10
ILLINOIS PROJECT				
CONTRACT NO. 63137				

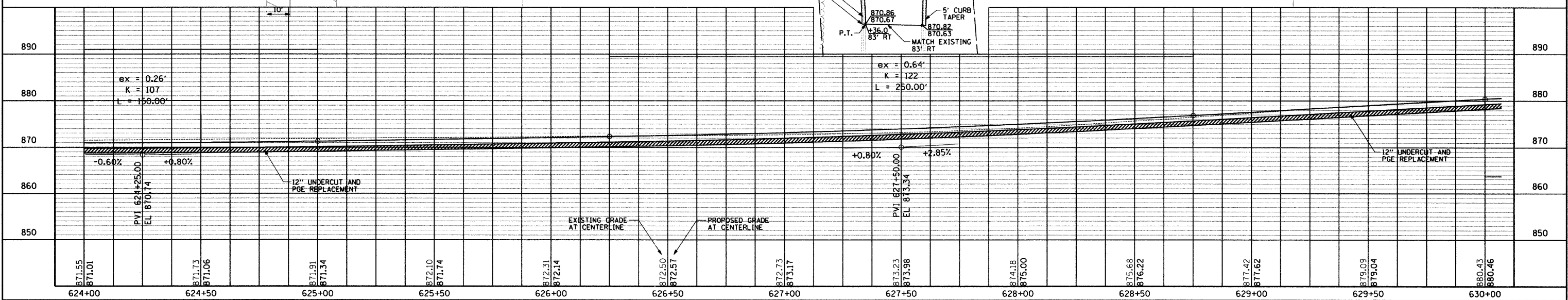
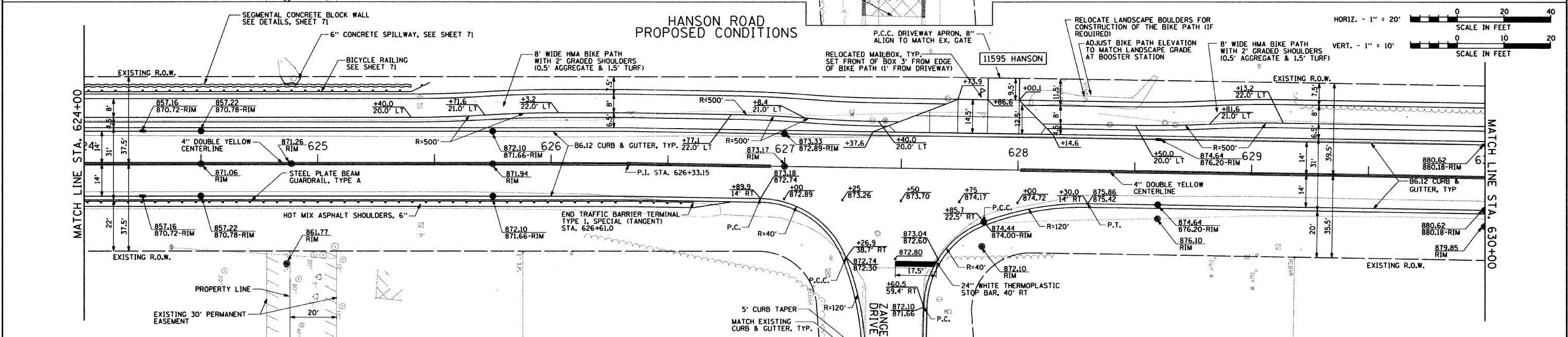
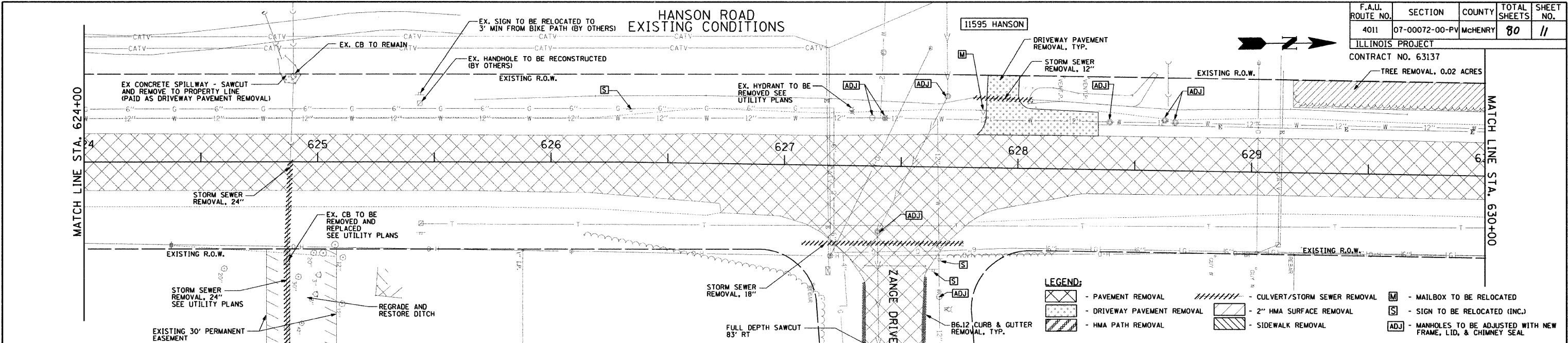


HANSON ROAD
PROPOSED CONDITIONS



PLAN AND PROFILE

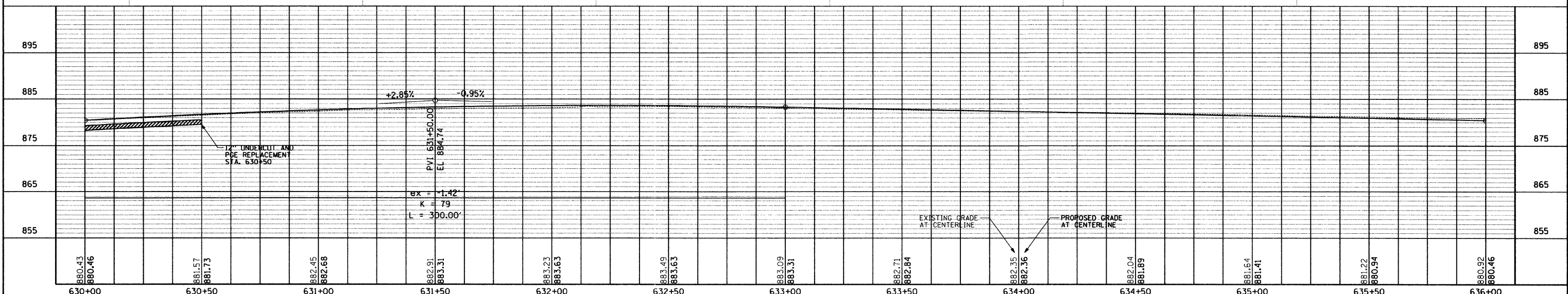
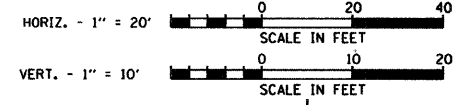
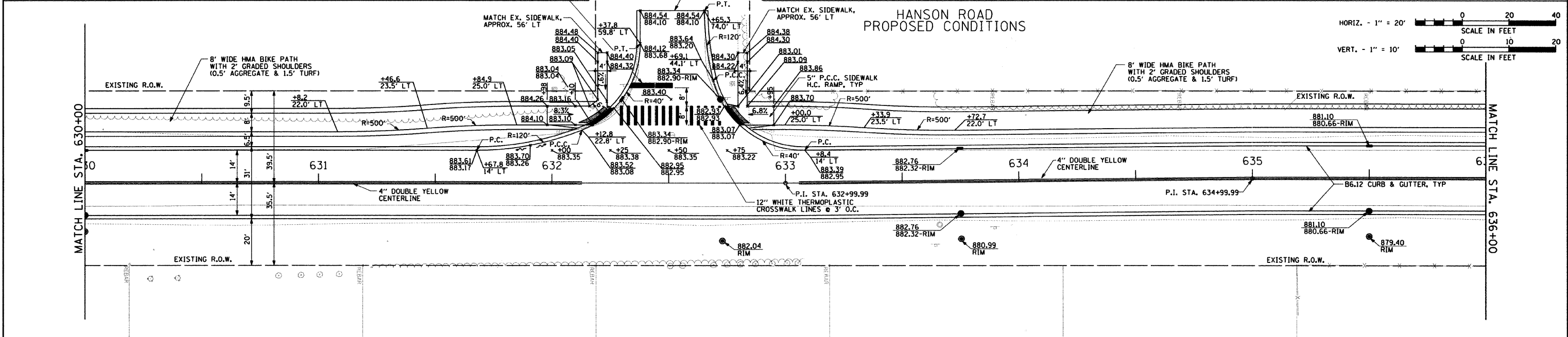
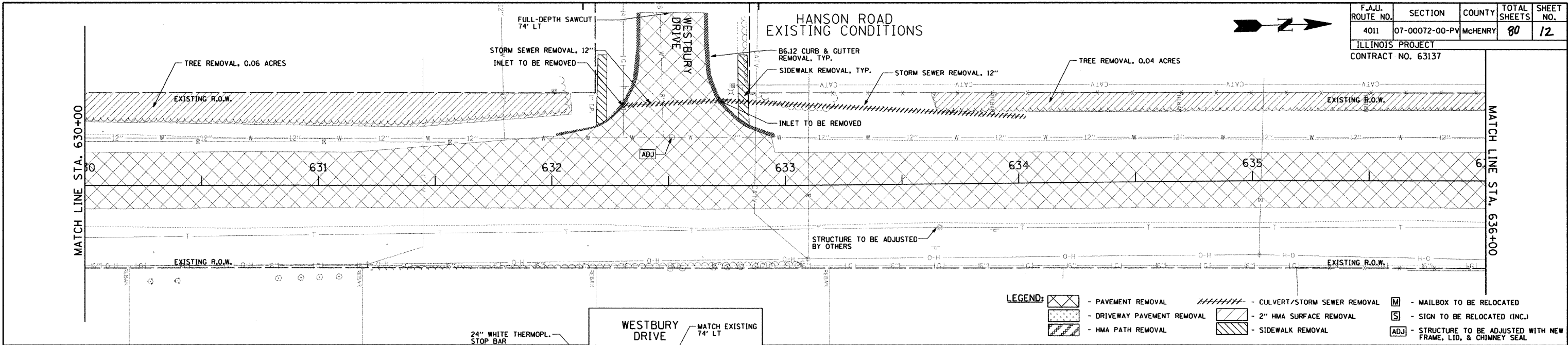
HANSON ROAD STA. 618+00 TO STA. 624+00



PLAN AND PROFILE

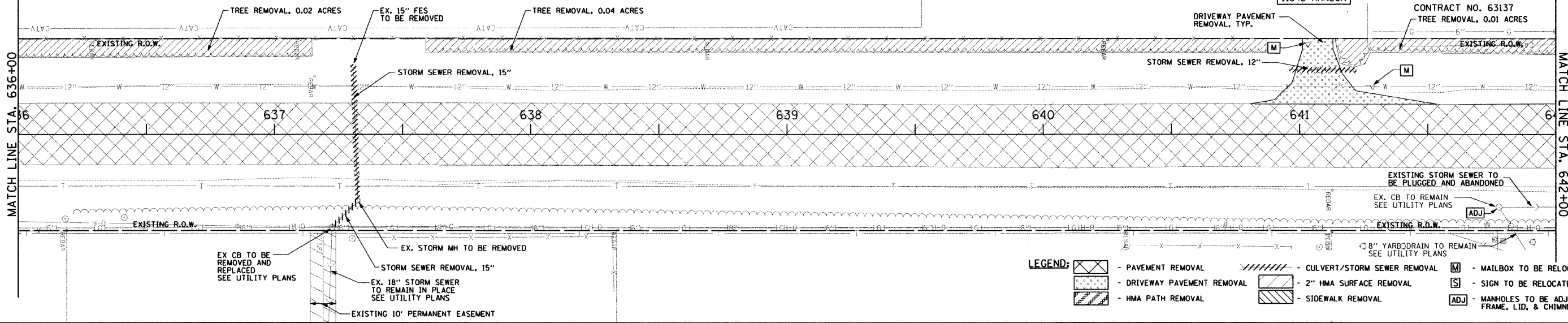
HANSON ROAD STA. 624+00 TO STA. 630+00

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	07-00072-00-PV	McHENRY	80	12
ILLINOIS PROJECT				
CONTRACT NO. 63137				



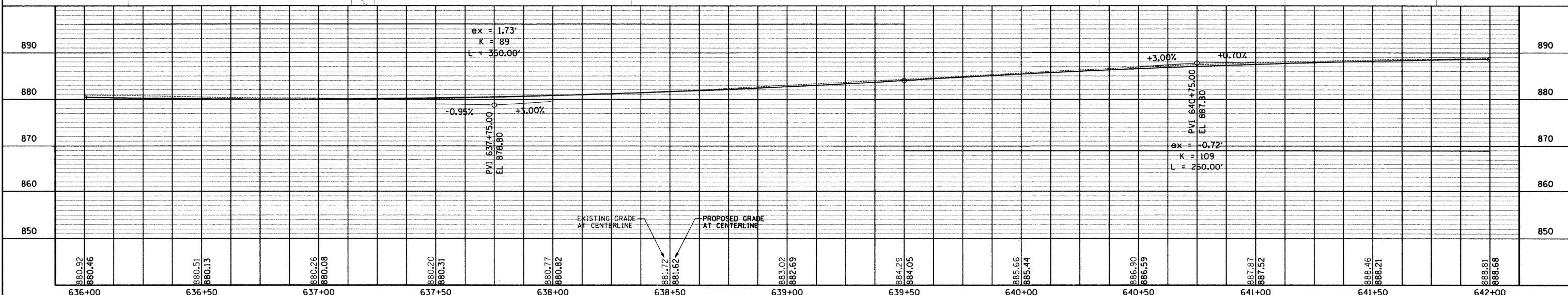
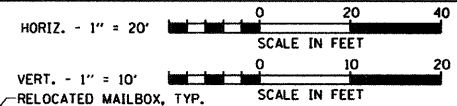
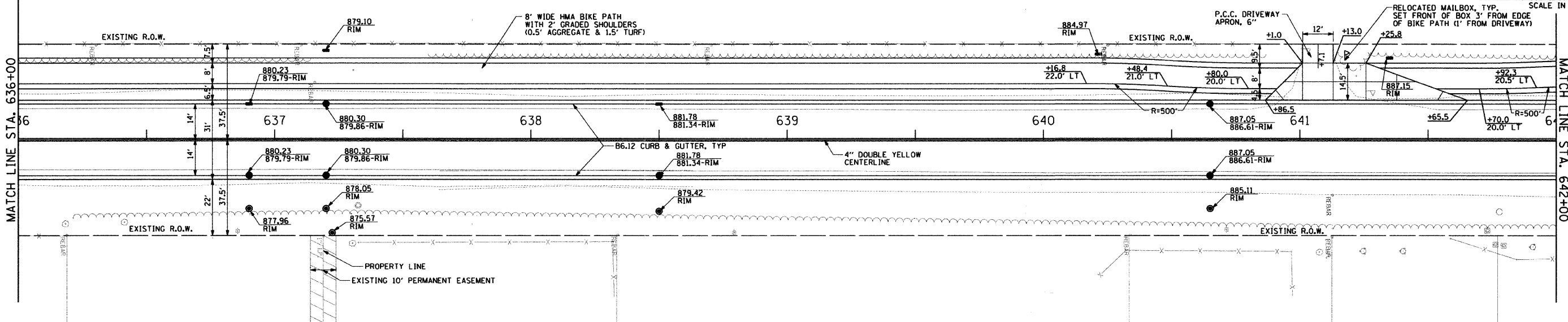
PLAN AND PROFILE HANSON ROAD STA. 630+00 TO STA. 636+00

HANSON ROAD EXISTING CONDITIONS



- LEGEND:**
- PAVEMENT REMOVAL
 - DRIVEWAY PAVEMENT REMOVAL
 - HMA PATH REMOVAL
 - CULVERT/STORM SEWER REMOVAL
 - 2" HMA SURFACE REMOVAL
 - SIDEWALK REMOVAL
 - MAILBOX TO BE RELOCATED
 - SIGN TO BE RELOCATED (INC.)
 - MANHOLES TO BE ADJUSTED WITH NEW FRAME, LID, & CHIMNEY SEAL

HANSON ROAD PROPOSED CONDITIONS

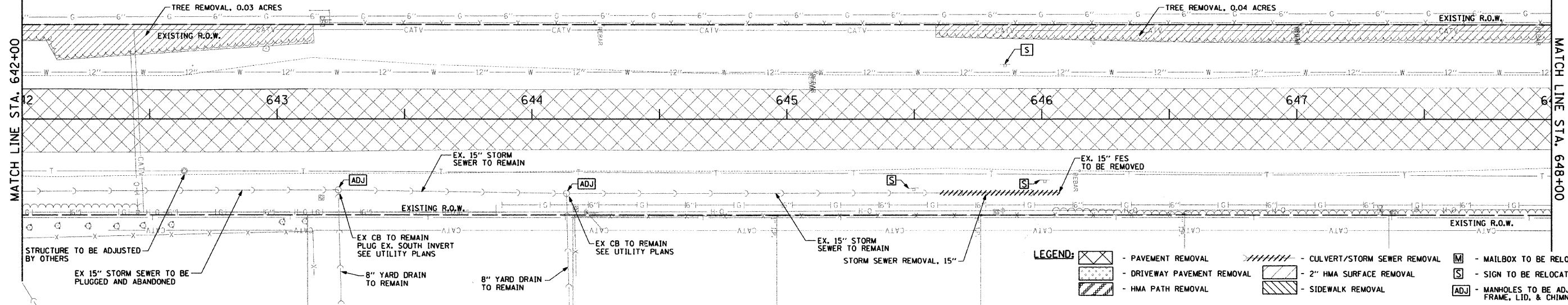
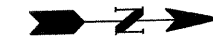


PLAN AND PROFILE

HANSON ROAD STA. 636+00 TO STA. 642+00

HANSON ROAD
EXISTING CONDITIONS

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	07-00072-00-PV	McHENRY	80	14
ILLINOIS PROJECT				
CONTRACT NO. 63137				



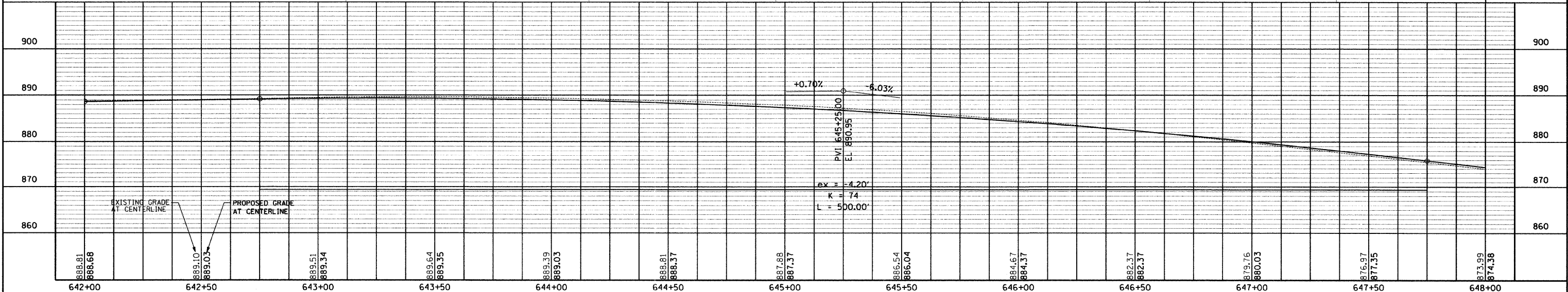
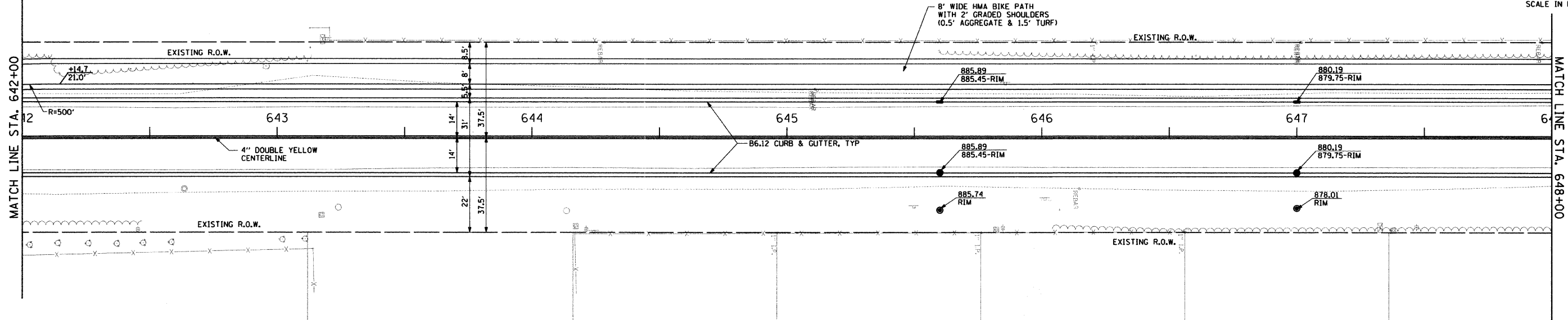
HANSON ROAD
PROPOSED CONDITIONS

HORIZ. - 1" = 20'

VERT. - 1" = 10'

SCALE IN FEET

SCALE IN FEET



PLAN AND PROFILE

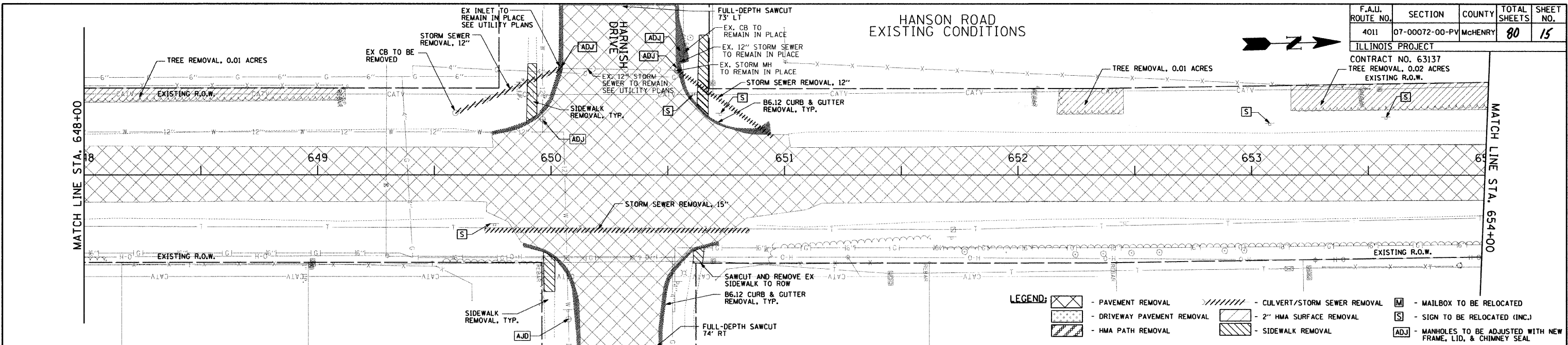
HANSON ROAD STA. 642+00 TO STA. 648+00

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	07-00072-00-PV	McHENRY	80	15

ILLINOIS PROJECT

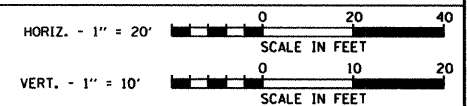
CONTRACT NO. 63137
TREE REMOVAL, 0.02 ACRES
EXISTING R.O.W.

HANSON ROAD EXISTING CONDITIONS

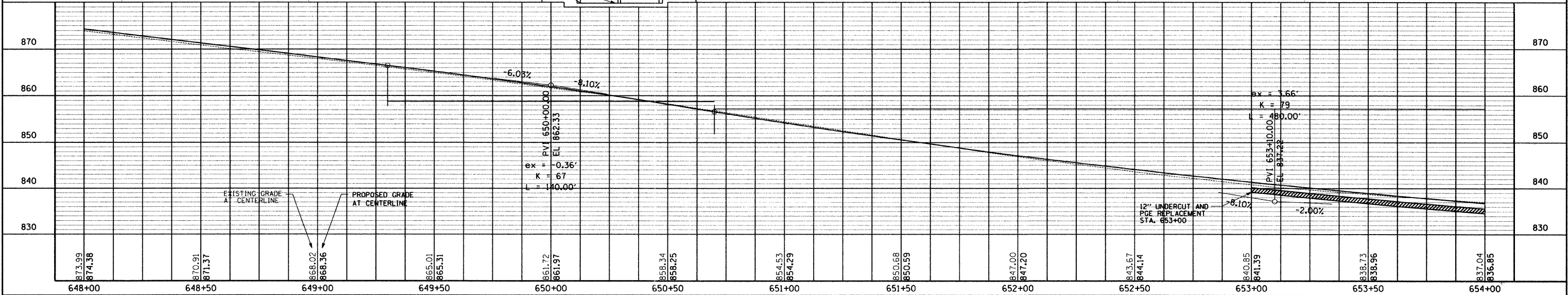
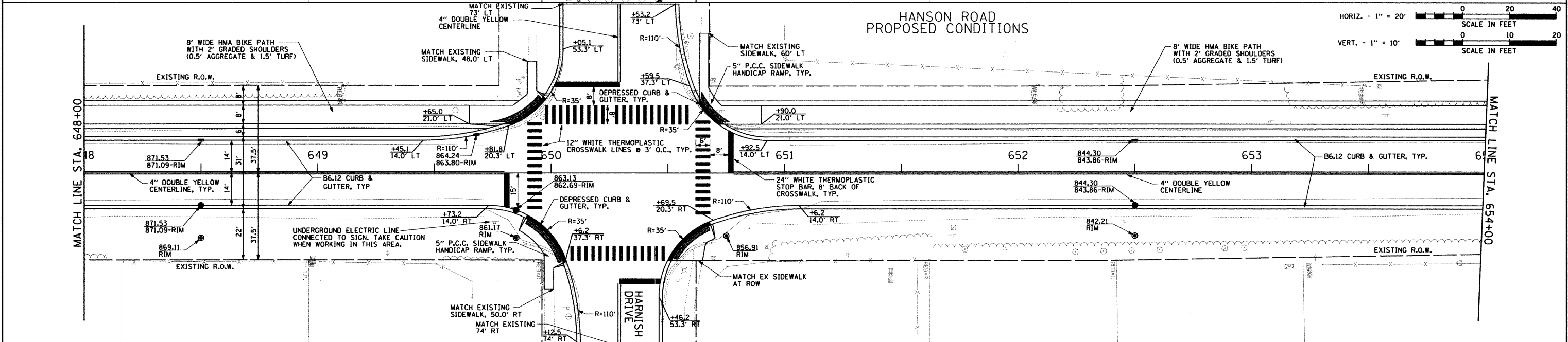


LEGEND:

- PAVEMENT REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- HMA PATH REMOVAL
- CULVERT/STORM SEWER REMOVAL
- 2" HMA SURFACE REMOVAL
- SIDEWALK REMOVAL
- MAILBOX TO BE RELOCATED
- SIGN TO BE RELOCATED (INC.)
- MANHOLES TO BE ADJUSTED WITH NEW FRAME, LID, & CHIMNEY SEAL



HANSON ROAD PROPOSED CONDITIONS

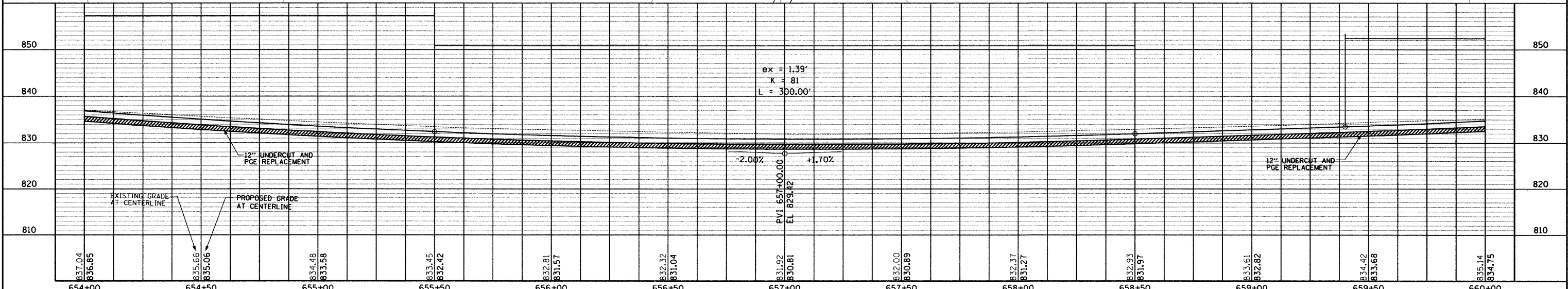
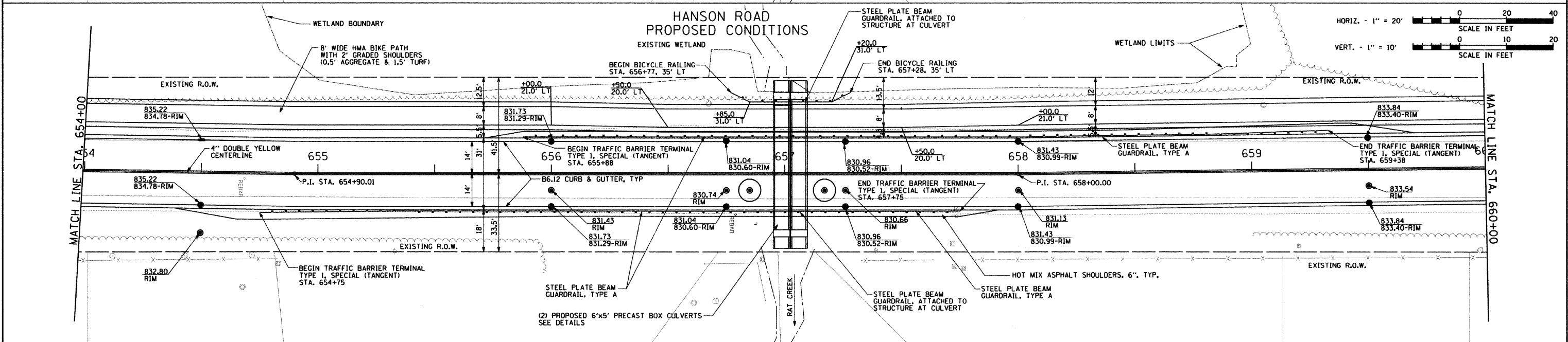
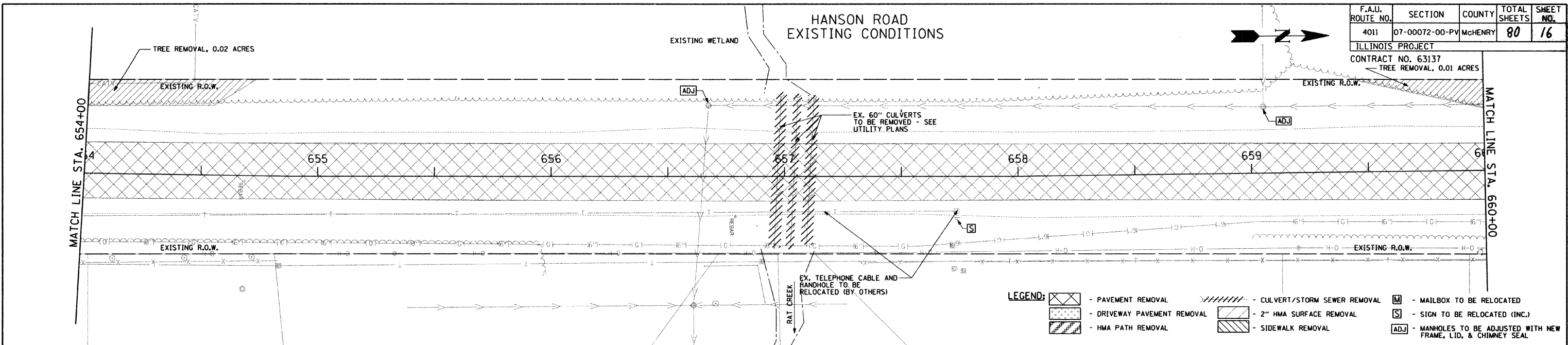


PLAN AND PROFILE

HANSON ROAD STA. 648+00 TO STA. 654+00

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	07-00072-00-PV	McHENRY	80	16

ILLINOIS PROJECT
 CONTRACT NO. 63137
 TREE REMOVAL, 0.01 ACRES

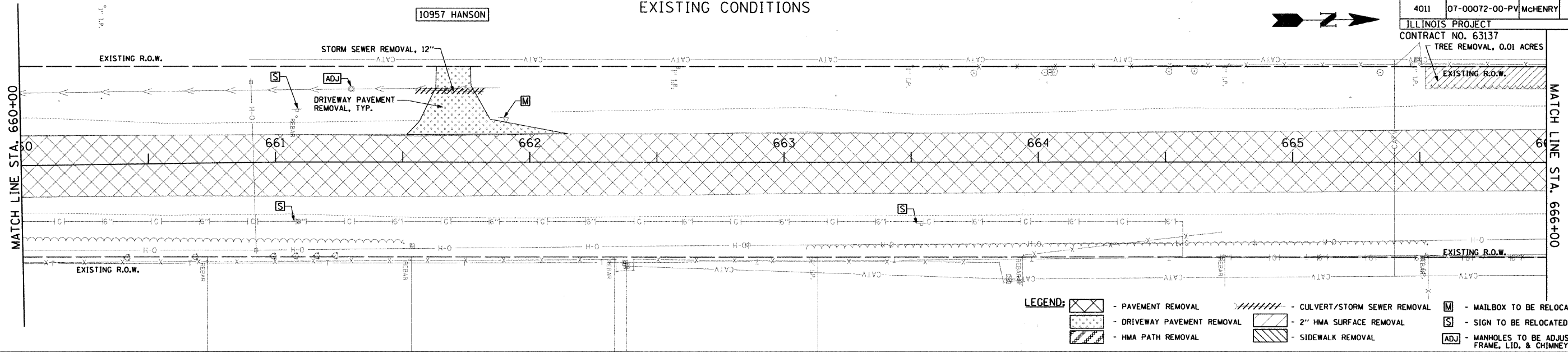


PLAN AND PROFILE

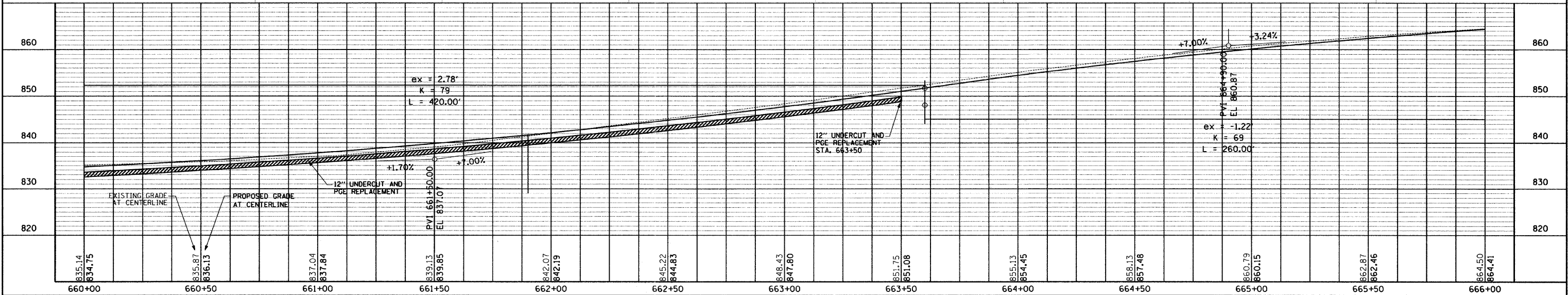
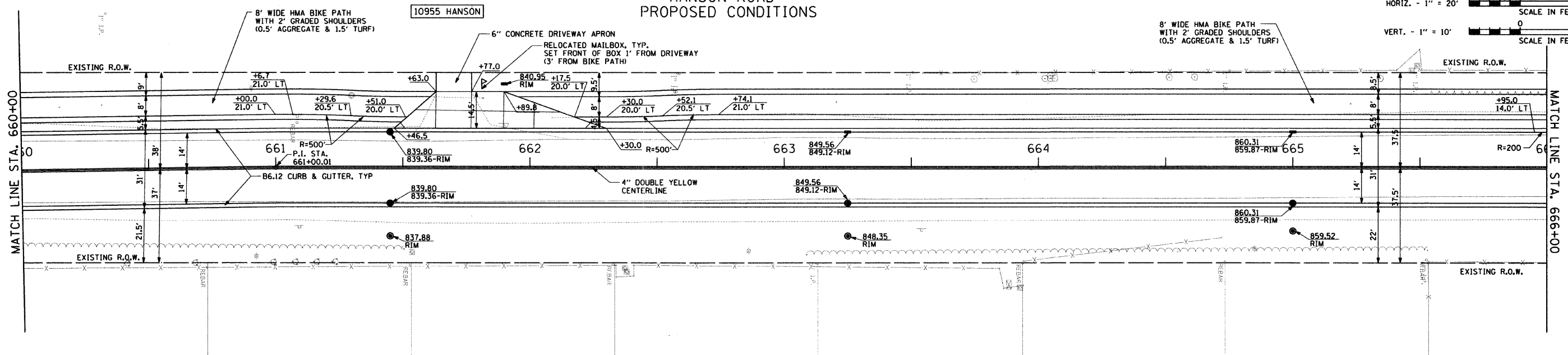
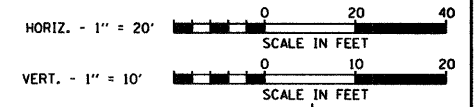
HANSON ROAD STA. 654+00 TO STA. 660+00

HANSON ROAD
EXISTING CONDITIONS

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	07-00072-00-PV	McHENRY	80	17
ILLINOIS PROJECT				
CONTRACT NO. 63137				
TREE REMOVAL, 0.01 ACRES				



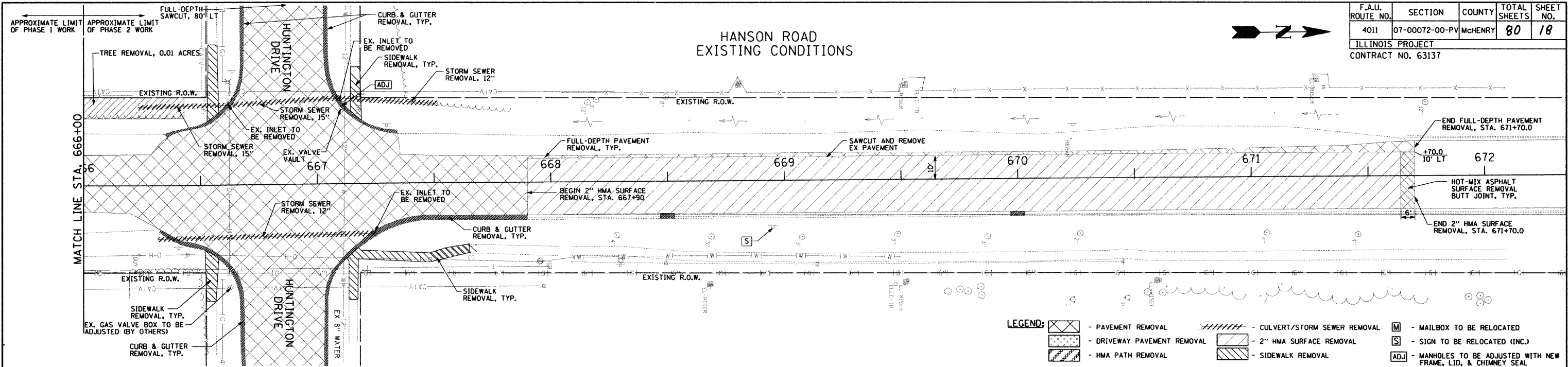
HANSON ROAD
PROPOSED CONDITIONS



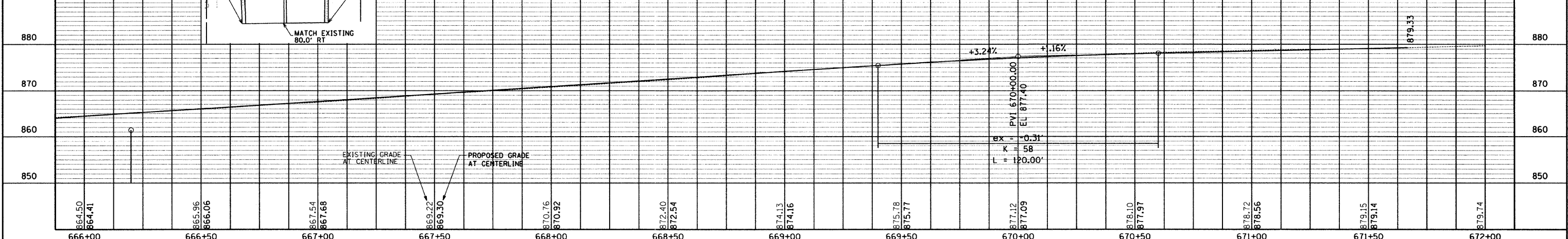
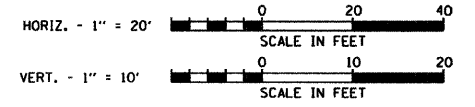
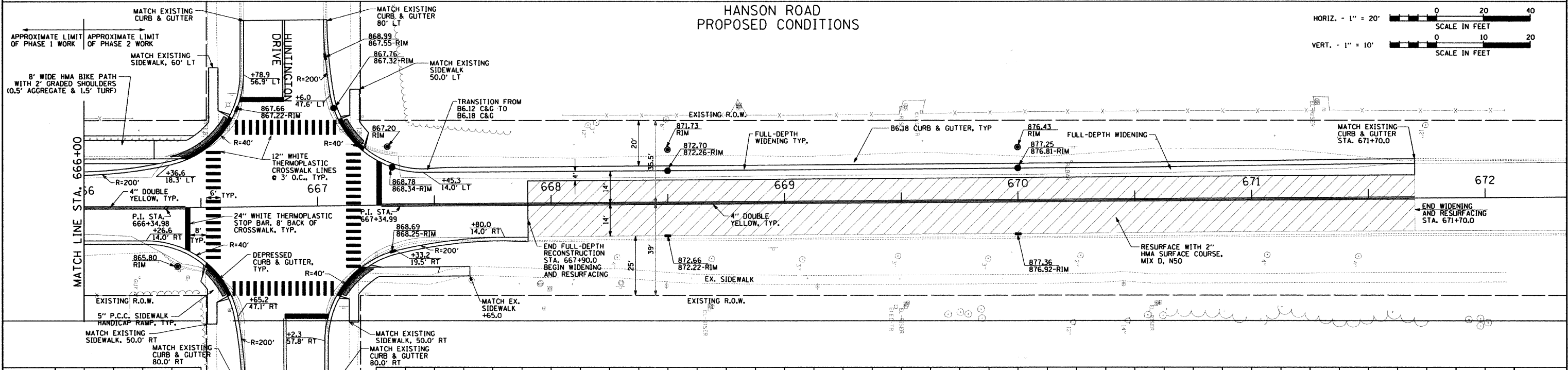
PLAN AND PROFILE

HANSON ROAD STA. 660+00 TO STA. 666+00

HANSON ROAD EXISTING CONDITIONS

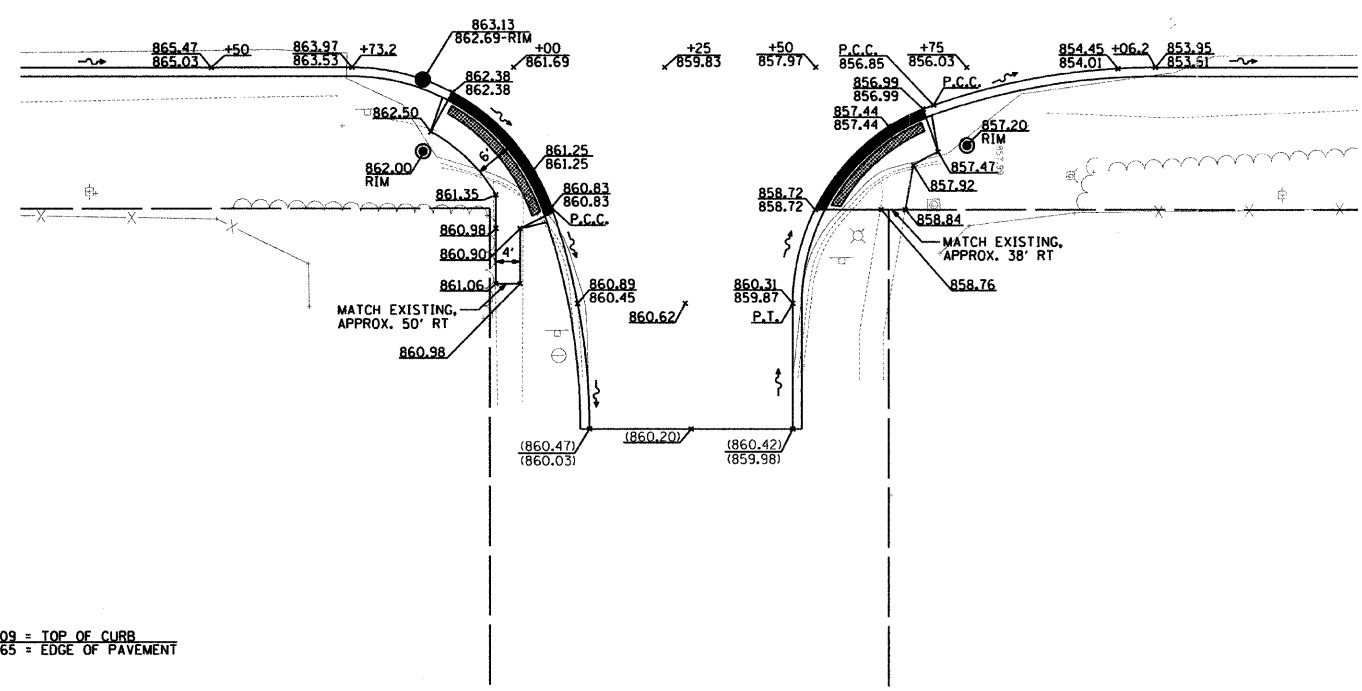
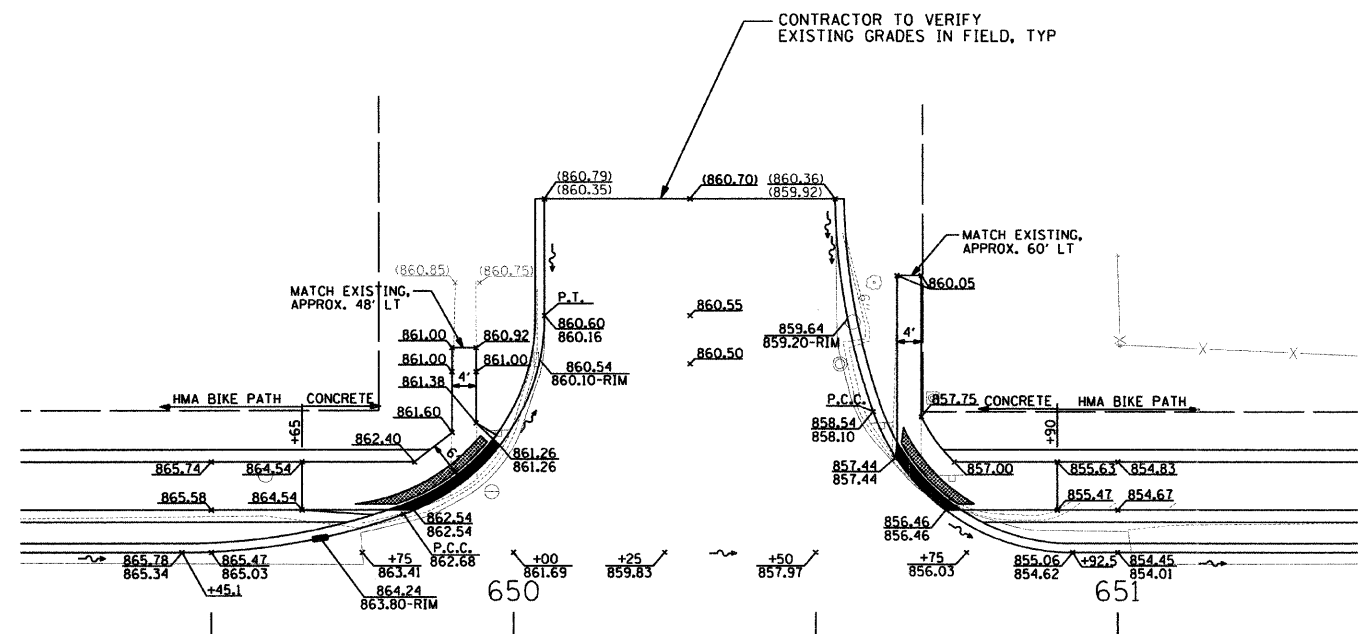


HANSON ROAD PROPOSED CONDITIONS

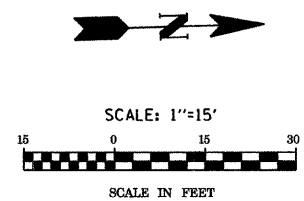


PLAN AND PROFILE

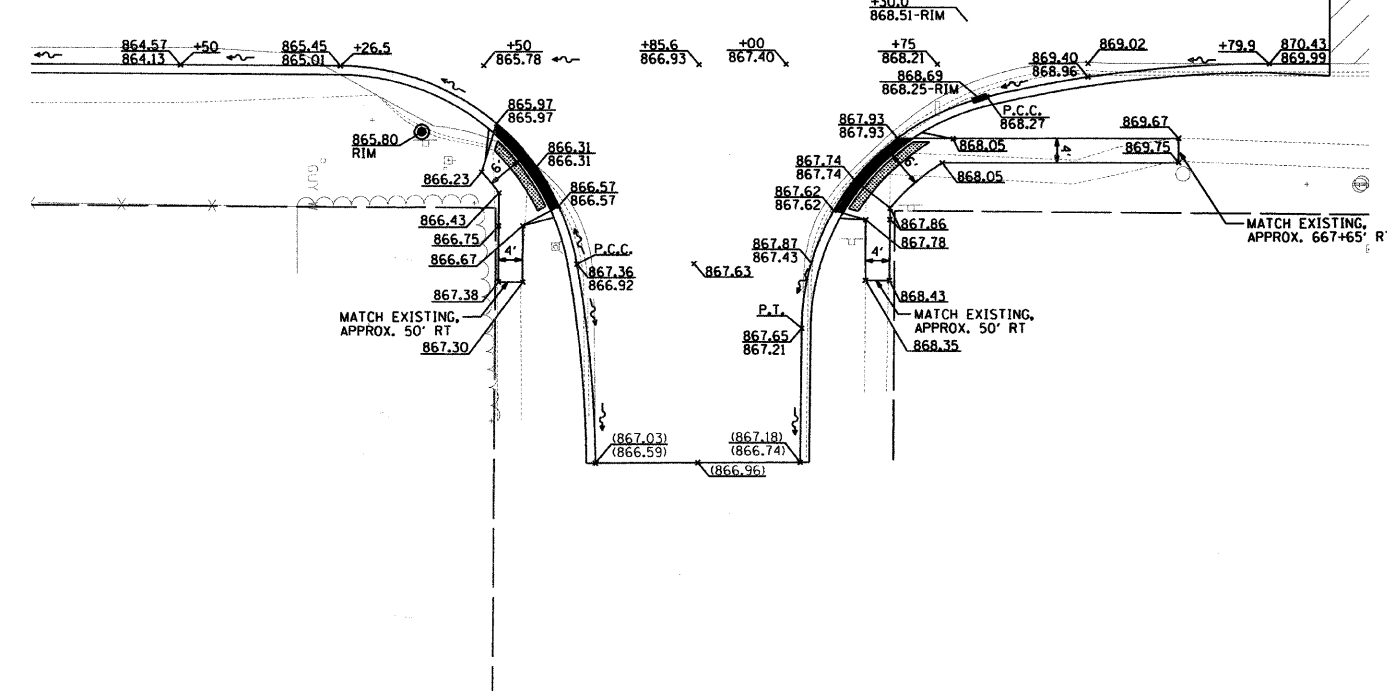
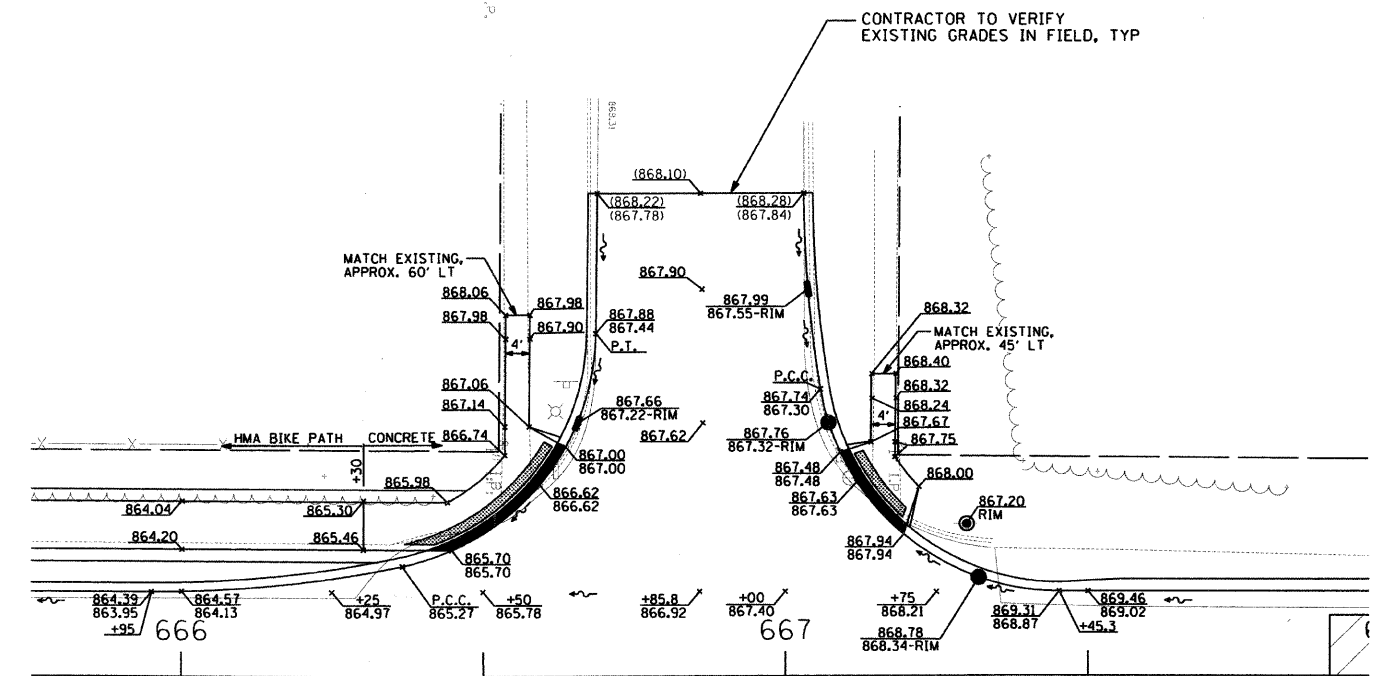
HANSON ROAD STA. 666+00 TO STA. 672+00



867.09 = TOP OF CURB
866.65 = EDGE OF PAVEMENT



HANSON / HARNISH INTERSECTION



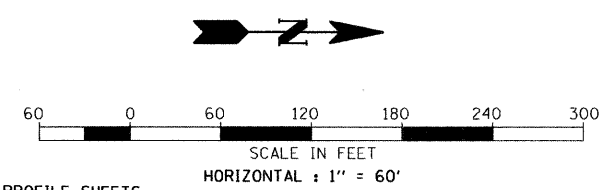
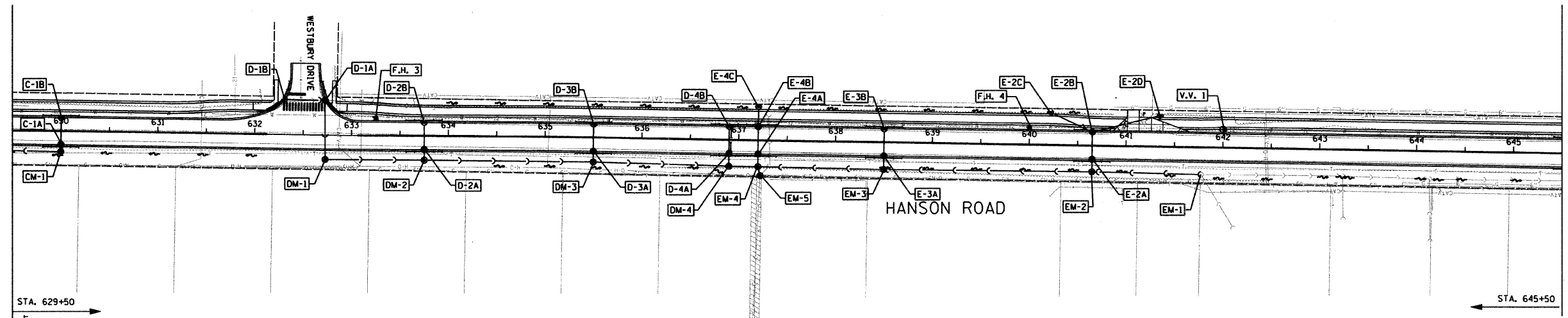
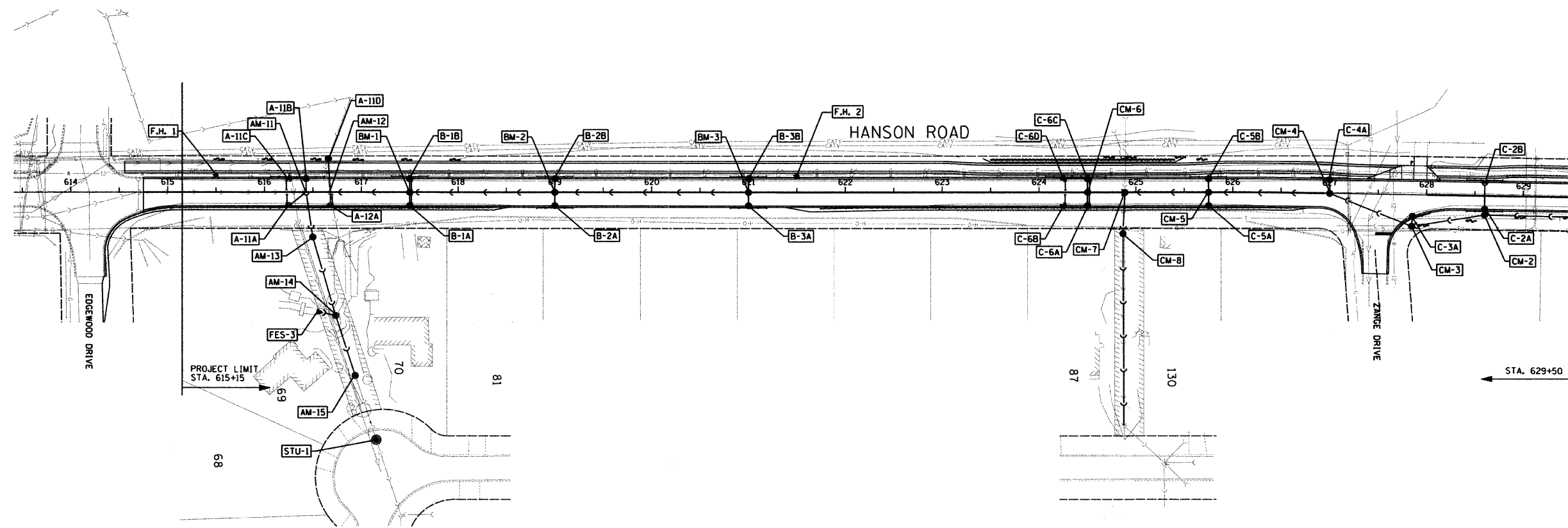
HANSON / HUNTINGTON INTERSECTION

REVISIONS	
NAME	DATE

HANSON ROAD IMPROVEMENTS
EDGEWOOD DRIVE TO HUNTINGTON DRIVE
HARNISH / HUNTINGTON INTERSECTION GRADING PLAN

DATE: 03-27-09 DRAWN BY: AJR
CHECKED BY: MAY

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



- LEGEND**
- - - - - EXISTING SANITARY SEWER
 - - - - - EXISTING WATER MAIN
 - - - - - EXISTING STORM SEWER
 - - - - - EXISTING GAS MAIN
 - - - - - EXISTING OVERHEAD
 - - - - - EXISTING CABLE T.V.
 - - PROPOSED INLET
 - - PROPOSED CATCH BASIN
 - - PROPOSED MANHOLE
 - ▲ - PROPOSED FIRE HYDRANT
 - - PROPOSED VALVE VAULT
 - - - - - PROPOSED STORM SEWER
 - - - - - PROPOSED SANITARY SEWER
 - DM-# - PROPOSED STORM SEWER STRUCTURE NUMBER

NOTE: GENERAL LOCATIONS OF ALL UTILITY WORK ARE SHOWN ABOVE. FOR DETAILED UTILITY LOCATIONS SEE UTILITY PLAN AND PROFILE SHEETS.

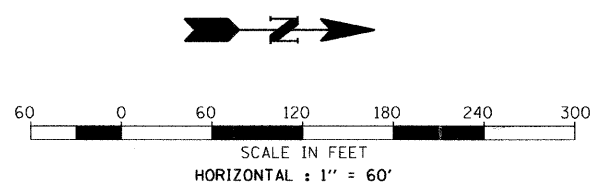
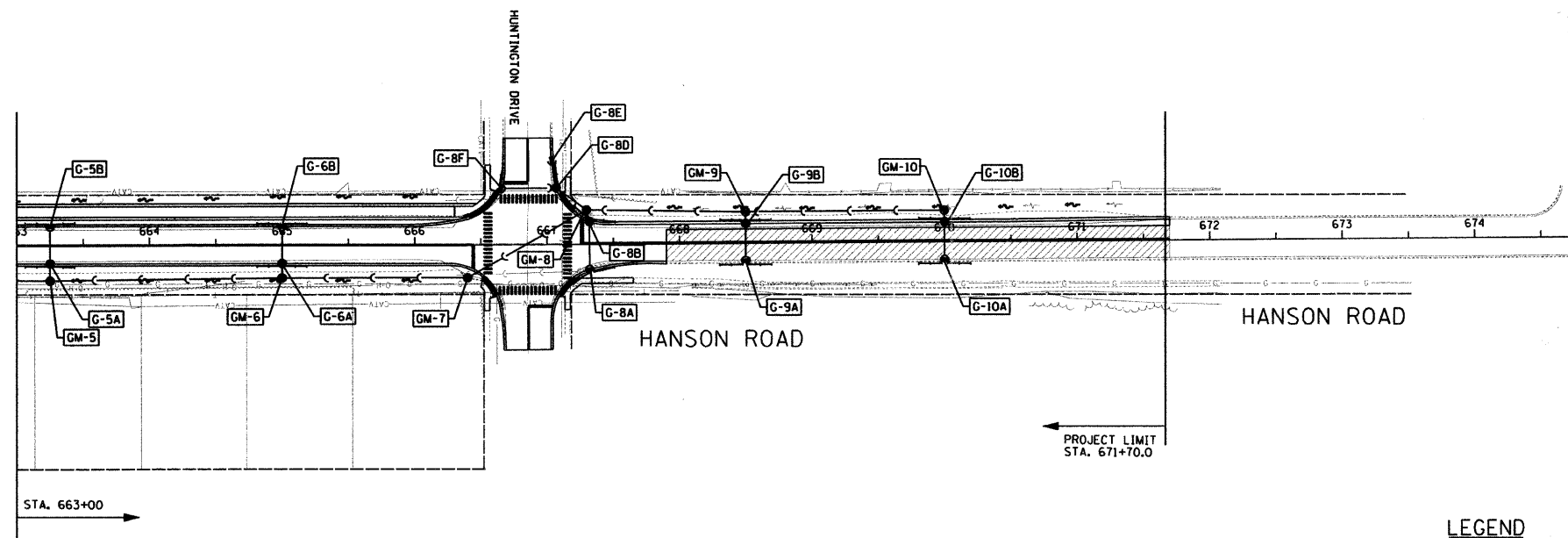
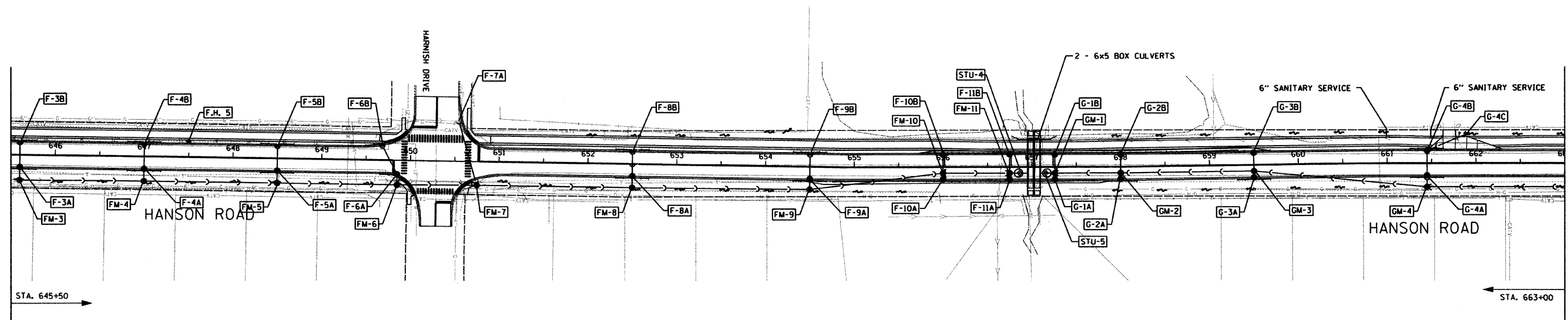
REVISIONS		NAME	DATE
NO.	DESCRIPTION		

HANSON ROAD IMPROVEMENTS
EDGEWOOD DRIVE TO HUNTINGTON DRIVE
OVERALL UTILITY PLAN

DRAWN BY: AJR
CHECKED BY: MAY

DATE: 03-27-09

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



- LEGEND**
- - - - - EXISTING SANITARY SEWER
 - - - - - EXISTING WATER MAIN
 - - - - - EXISTING STORM SEWER
 - - - - - EXISTING GAS MAIN
 - - - - - EXISTING OVERHEAD
 - - - - - EXISTING CABLE T.V.
 - - - - - PROPOSED INLET
 - - - - - PROPOSED CATCH BASIN
 - - - - - PROPOSED MANHOLE
 - ▲ - - - - PROPOSED FIRE HYDRANT
 - - - - - PROPOSED VALVE VAULT
 - - - - - PROPOSED STORM SEWER
 - - - - - PROPOSED SANITARY SEWER
 - DM-B - - PROPOSED STORM SEWER STRUCTURE NUMBER

NOTE: GENERAL LOCATIONS OF ALL UTILITY WORK ARE SHOWN ABOVE. FOR DETAILED UTILITY LOCATIONS SEE UTILITY PLAN AND PROFILE SHEETS.

REVISIONS	
NAME	DATE

HANSON ROAD IMPROVEMENTS
EDGEWOOD DRIVE TO HUNTINGTON DRIVE

OVERALL UTILITY PLAN

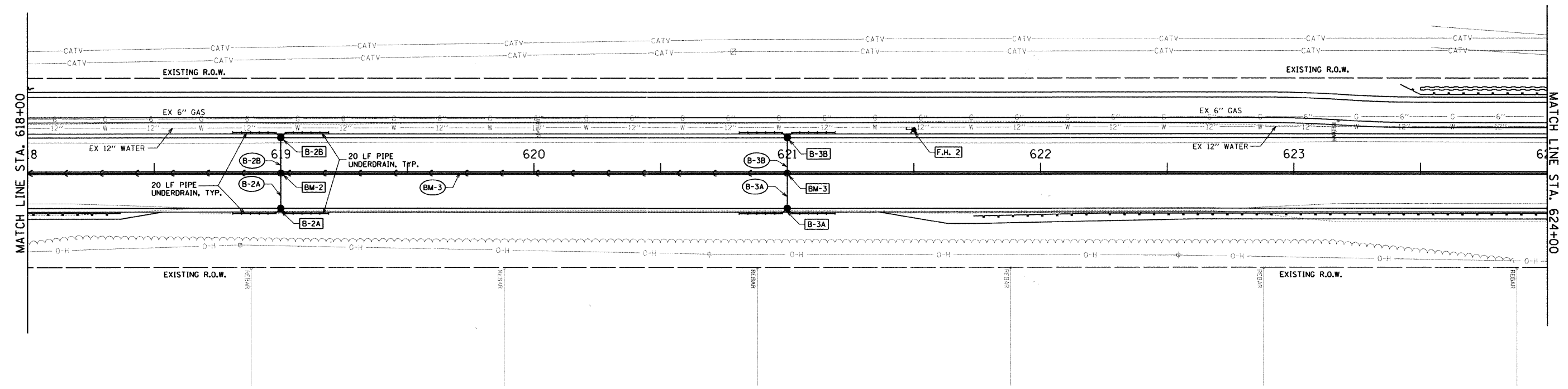
DATE: 03-27-09 DRAWN BY: AJR
CHECKED BY: MAY

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

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	07-00072-00-PV	McHENRY	80	23

ILLINOIS PROJECT
CONTRACT NO. 63137

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



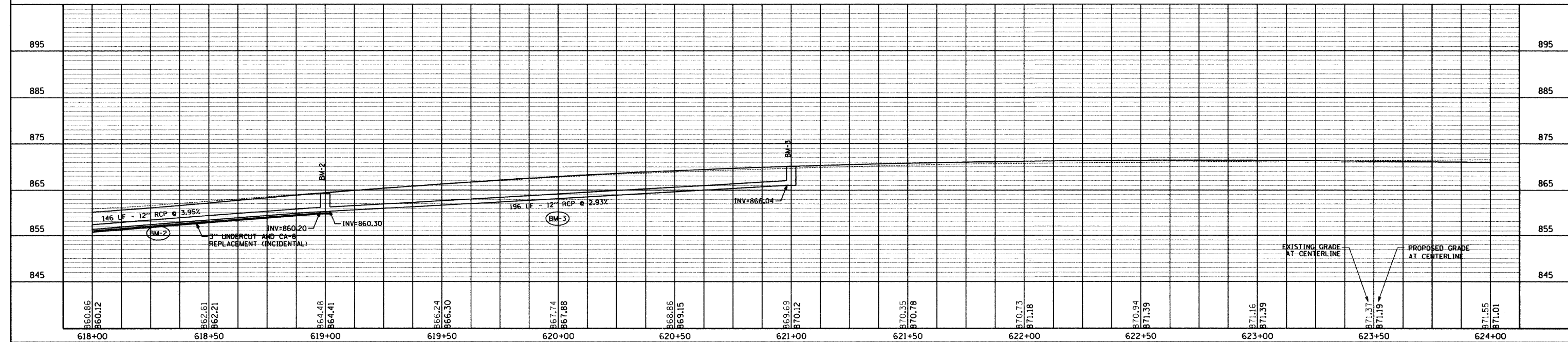
HANSON ROAD
STORM SEWER PLANS

[F.H. 2]
FIRE HYDRANT W/ AUX. VALVE AND VALVE BOX STA. 621+50.0, 17.2' LT

HORIZ. - 1" = 20'
VERT. - 1" = 10'

SCALE IN FEET
0 10 20

SCALE IN FEET
0 10 20



PLAN AND PROFILE

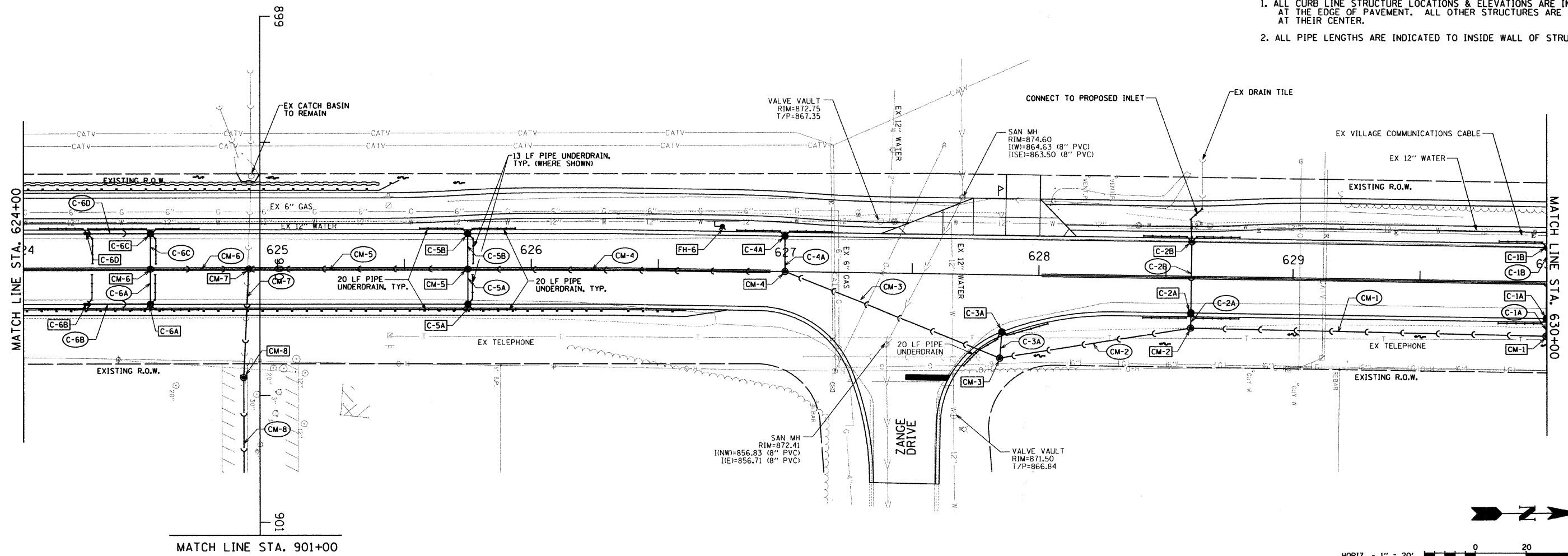
HANSON ROAD STA. 618+00 TO STA. 624+00

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	07-00072-00-PV	McHENRY	80	24

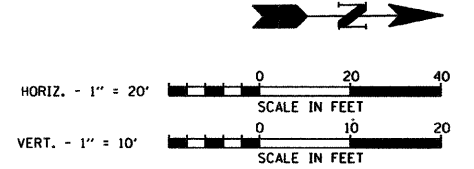
ILLINOIS PROJECT

CONTRACT NO. 63137

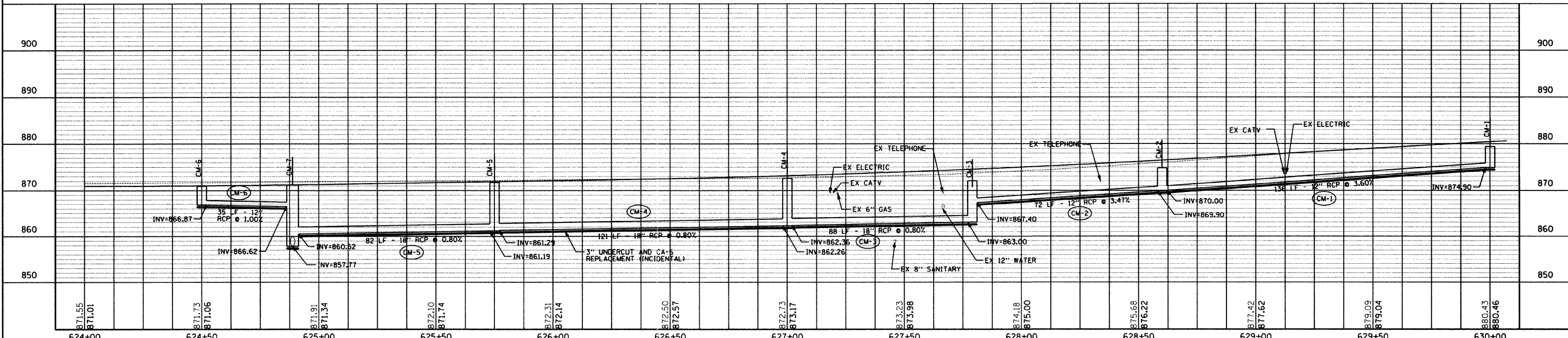
- NOTES:
- ALL CURB LINE STRUCTURE LOCATIONS & ELEVATIONS ARE INDICATED AT THE EDGE OF PAVEMENT. ALL OTHER STRUCTURES ARE INDICATED AT THEIR CENTER.
 - ALL PIPE LENGTHS ARE INDICATED TO INSIDE WALL OF STRUCTURE.



F.H. 6
FIRE HYDRANT W/ AUX.
VALVE AND VALVE BOX
STA. 626+75.0, 17.5' LT



HANSON ROAD
STORM SEWER PLANS



PLAN AND PROFILE

HANSON ROAD STA. 624+00 TO STA. 630+00

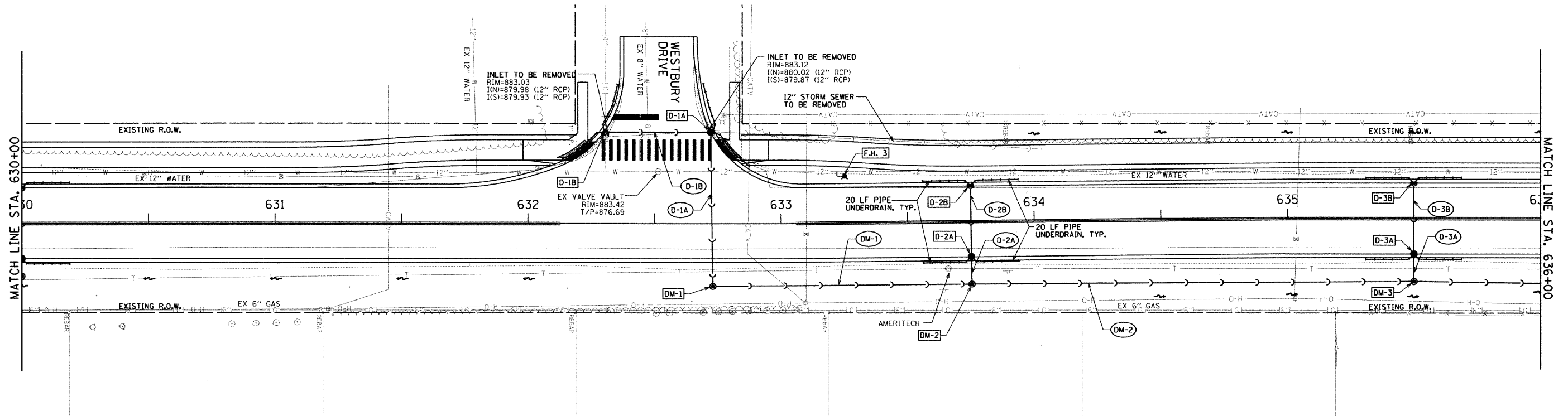
F.H. 3
 FIRE HYDRANT W/ AUX.
 VALVE AND VALVE BOX
 STA. 633+25.2, 18.5' LT

NOTES:

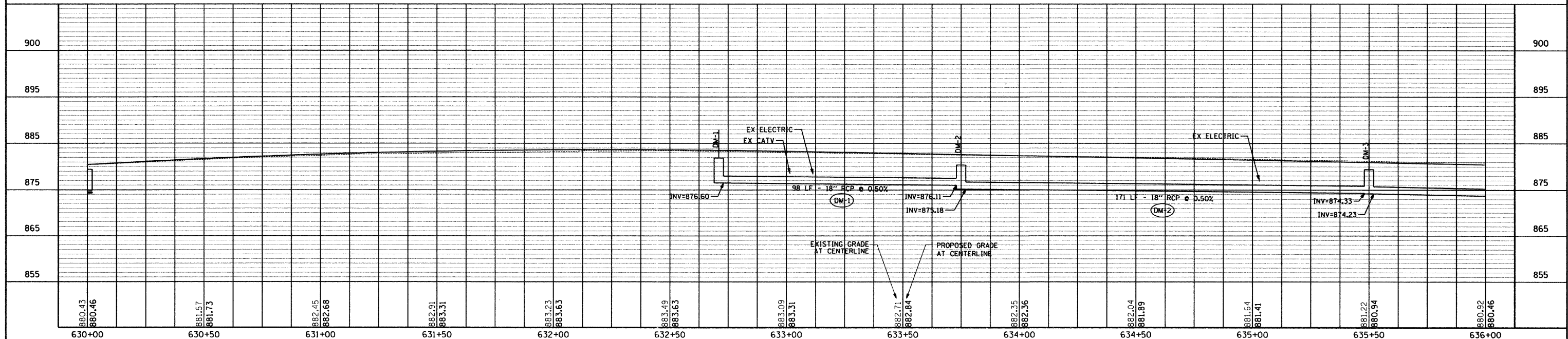
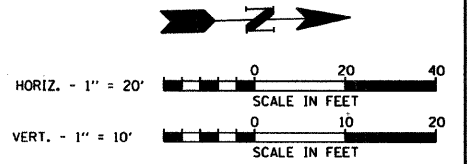
1. ALL CURB LINE STRUCTURE LOCATIONS & ELEVATIONS ARE INDICATED AT THE EDGE OF PAVEMENT. ALL OTHER STRUCTURES ARE INDICATED AT THEIR CENTER.
2. ALL PIPE LENGTHS ARE INDICATED TO INSIDE WALL OF STRUCTURE.

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	07-00072-00-PV	McHENRY	80	25

ILLINOIS PROJECT
 CONTRACT NO. 63137



**HANSON ROAD
 STORM SEWER PLANS**



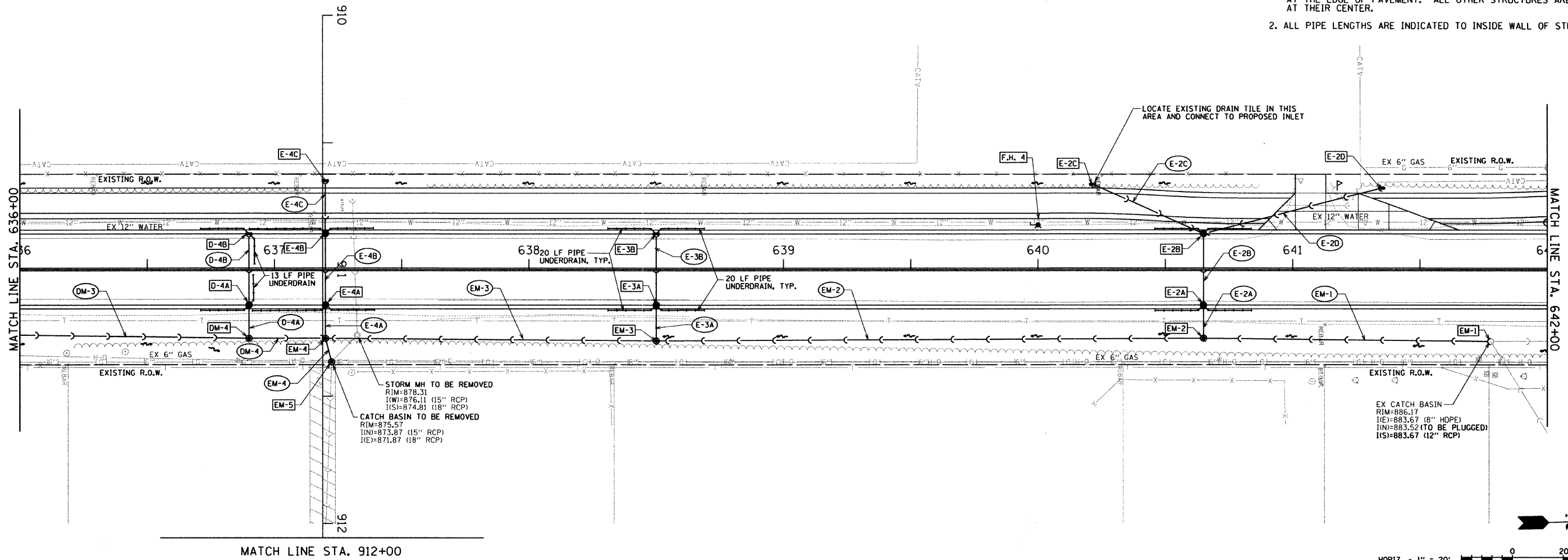
PLAN AND PROFILE

HANSON ROAD STA. 630+00 TO STA. 636+00

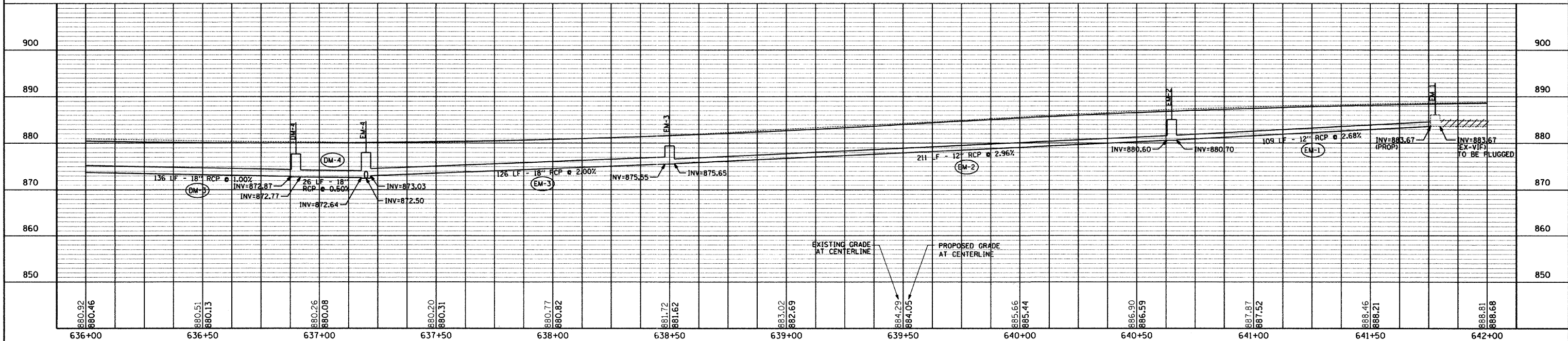
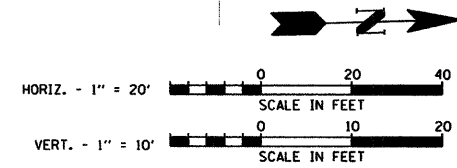
F.H. 4
 FIRE HYDRANT W/ AUX.
 VALVE AND VALVE BOX
 STA. 640+00.0, 18.5' LT

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	07-00072-00-PV	McHENRY	80	26

ILLINOIS PROJECT
 CONTRACT NO. 63137
 NOTES:
 1. ALL CURB LINE STRUCTURE LOCATIONS & ELEVATIONS ARE INDICATED AT THE EDGE OF PAVEMENT. ALL OTHER STRUCTURES ARE INDICATED AT THEIR CENTER.
 2. ALL PIPE LENGTHS ARE INDICATED TO INSIDE WALL OF STRUCTURE.



HANSON ROAD
 STORM SEWER PLANS



PLAN AND PROFILE

HANSON ROAD STA. 636+00 TO STA. 642+00

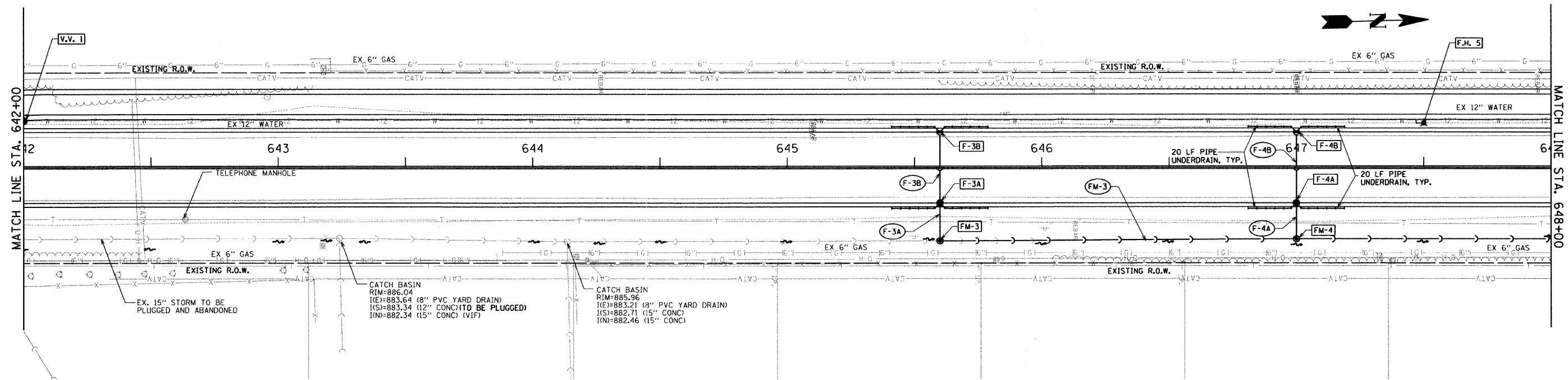
V.V. 1
 VALVE VAULT NO. 1
 12" VALVE IN VALVE VAULT
 TY. A, 5' DIA.
 STA. 642+00.0 , 18.5' RT
 RIM=888+72

F.H. 5
 FIRE HYDRANT W/ AUX.
 VALVE AND VALVE BOX
 STA. 647+50.0, 17.5' LT

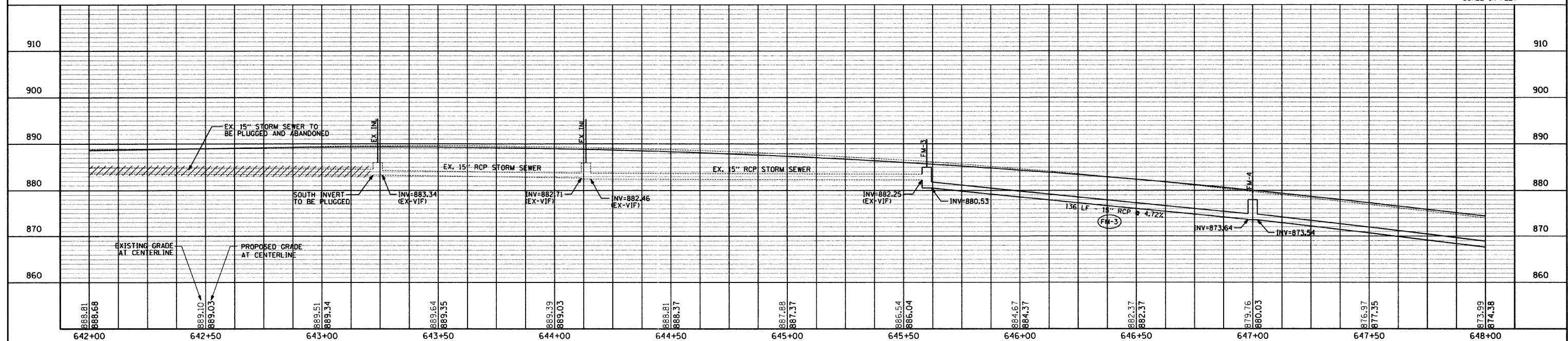
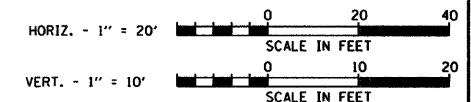
F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	07-00072-00-PV	McHENRY	80	27

ILLINOIS PROJECT
 CONTRACT NO. 63137

- 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.



HANSON ROAD
 STORM SEWER PLANS



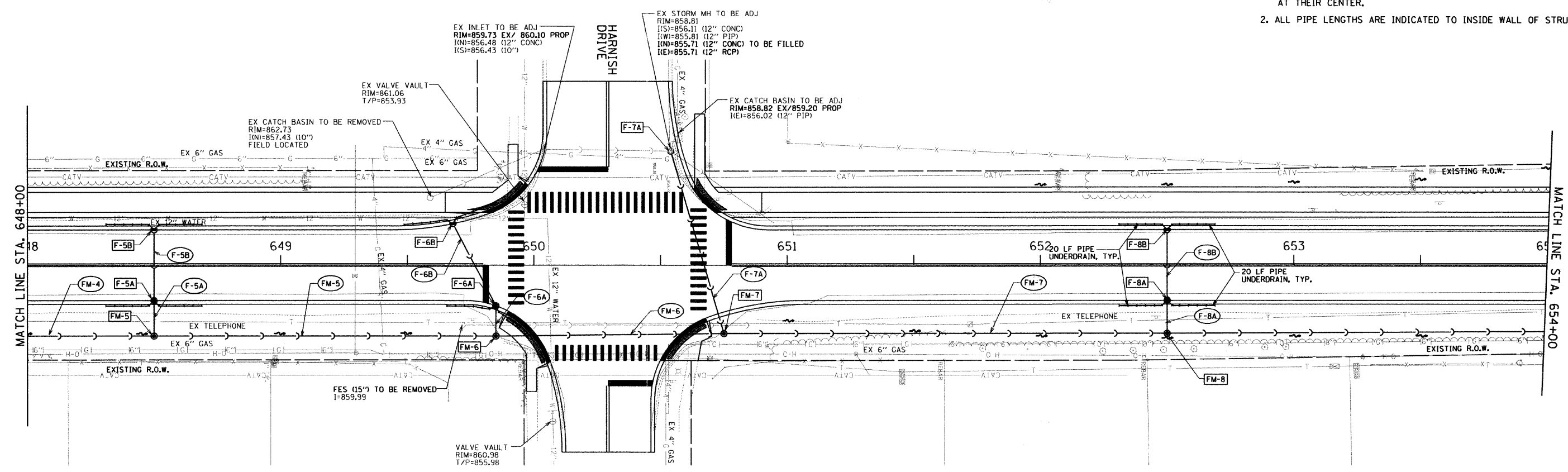
PLAN AND PROFILE

HANSON ROAD STA. 642+00 TO STA. 648+00

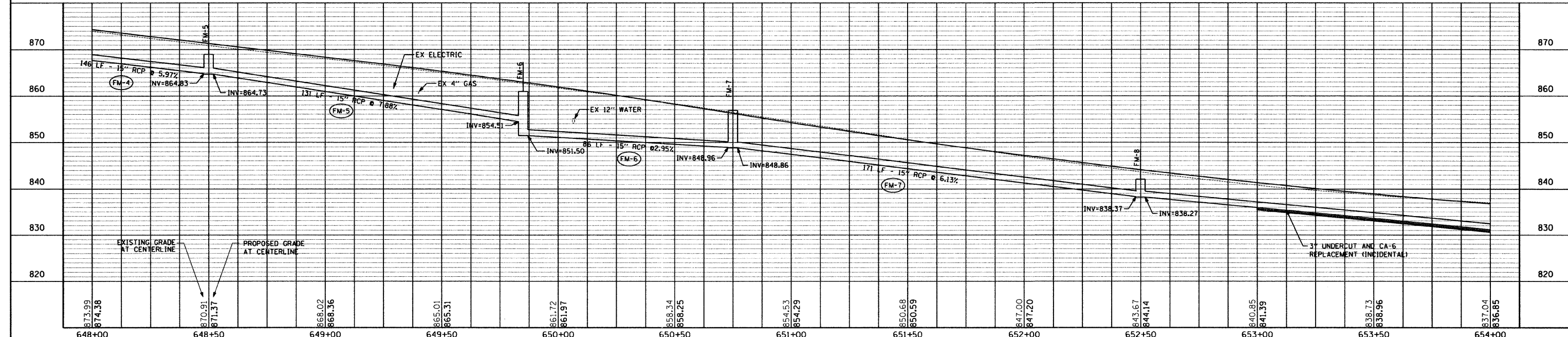
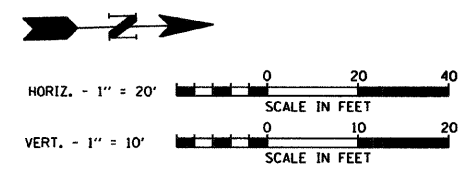
F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	07-00072-00-PV	McHENRY	80	28

ILLINOIS PROJECT
CONTRACT NO. 63137

- 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.



HANSON ROAD
STORM SEWER PLANS



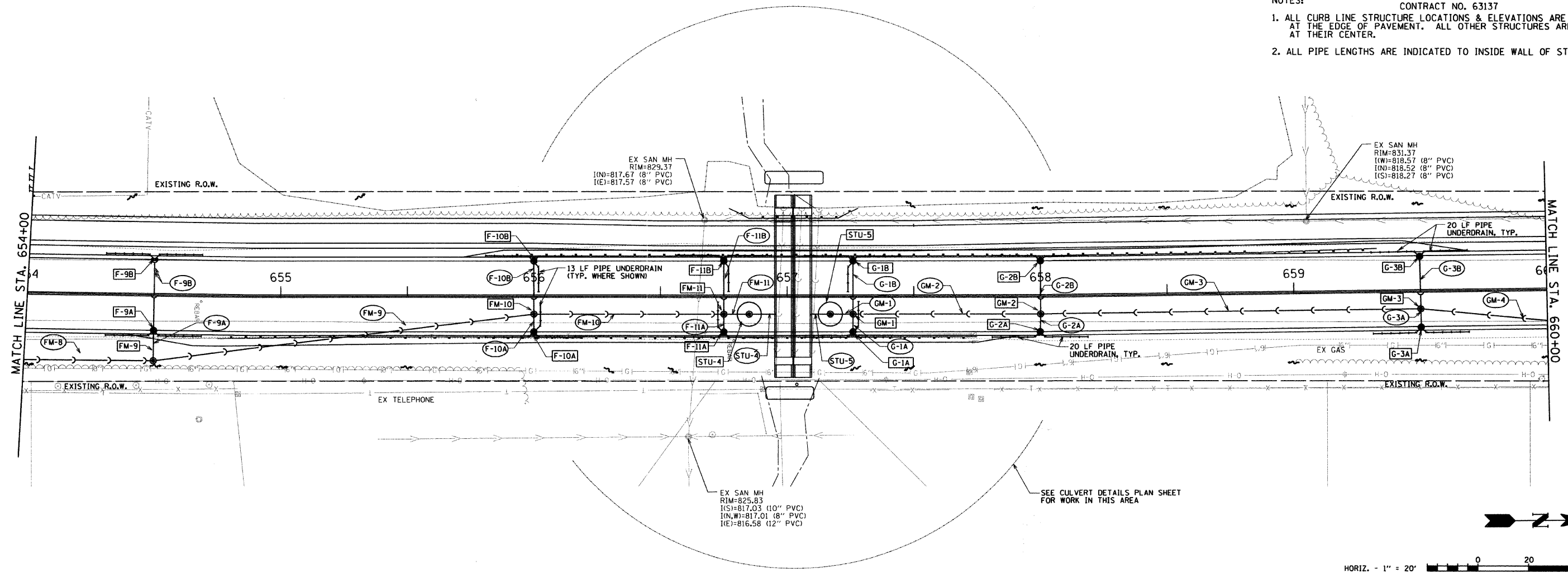
PLAN AND PROFILE

HANSON ROAD STA. 648+00 TO STA. 654+00

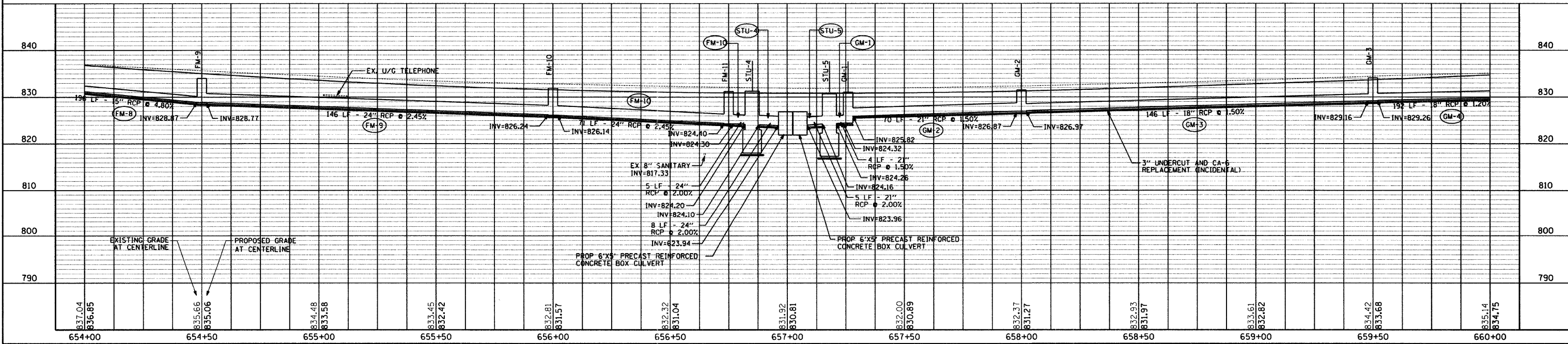
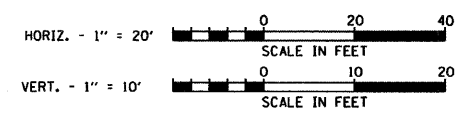
F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	07-00072-00-PV	McHENRY	80	29

ILLINOIS PROJECT
CONTRACT NO. 63137

- 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.



HANSON ROAD
STORM SEWER PLANS



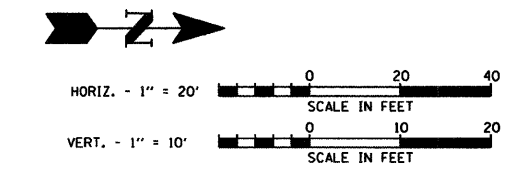
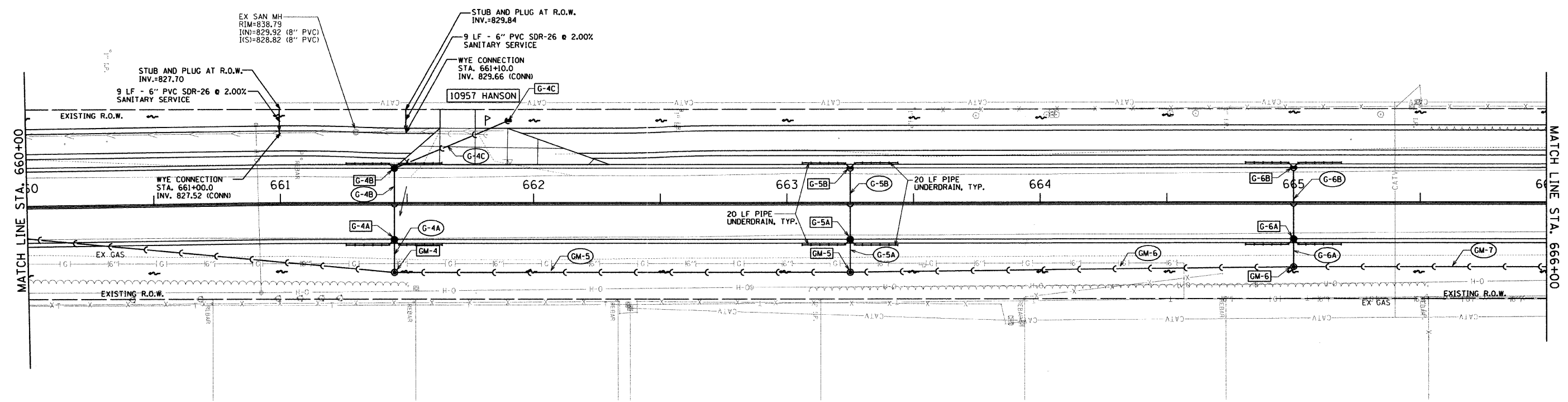
PLAN AND PROFILE

HANSON ROAD STA. 654+00 TO STA. 660+00

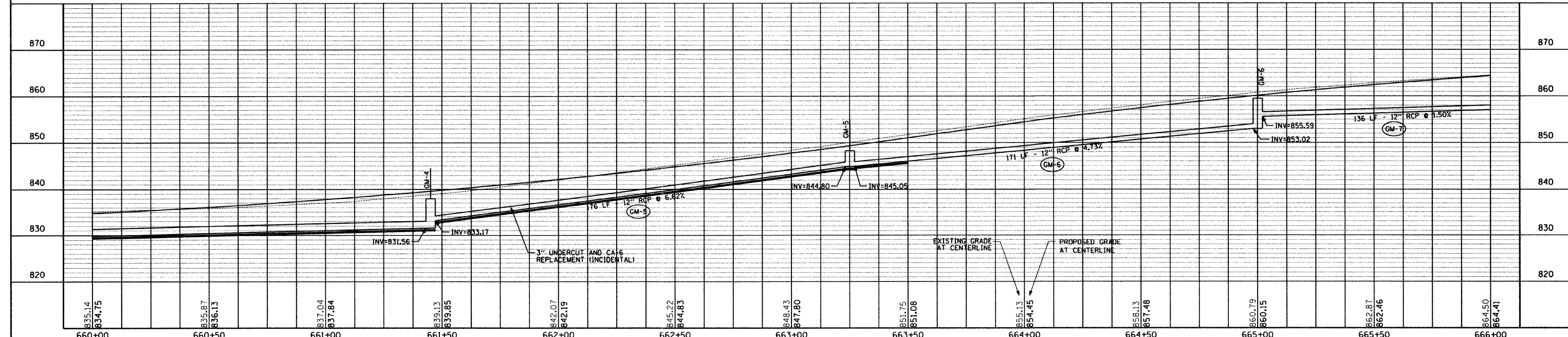
F.A.L. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	07-00072-00-PV	McHENRY	80	30

ILLINOIS PROJECT
CONTRACT NO. 63137

- 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.



HANSON ROAD
STORM SEWER PLANS

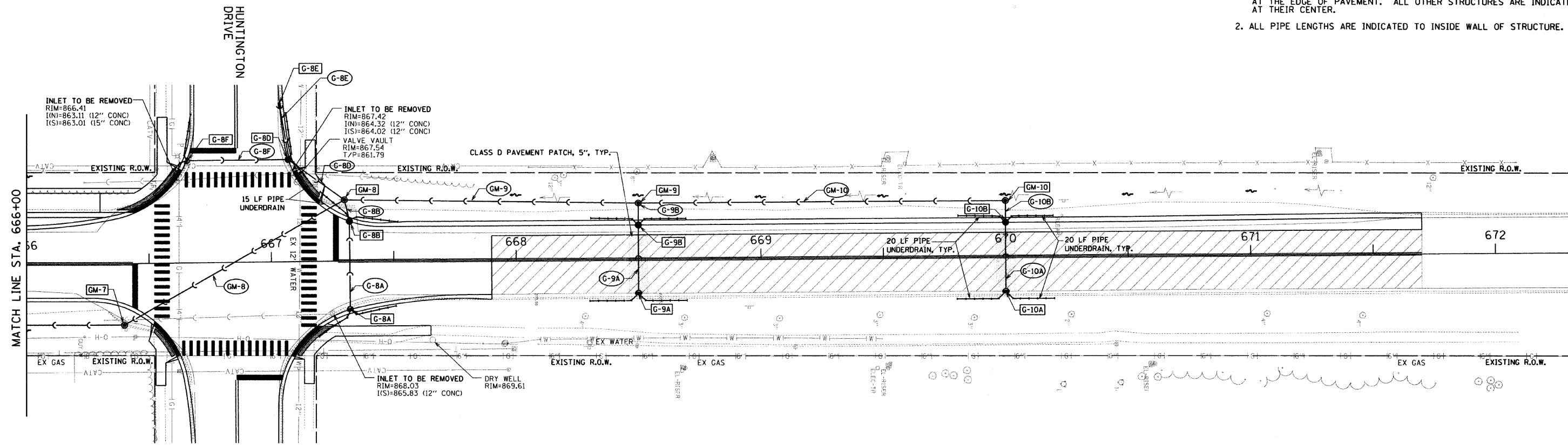


PLAN AND PROFILE HANSON ROAD STA. 660+00 TO STA. 666+00

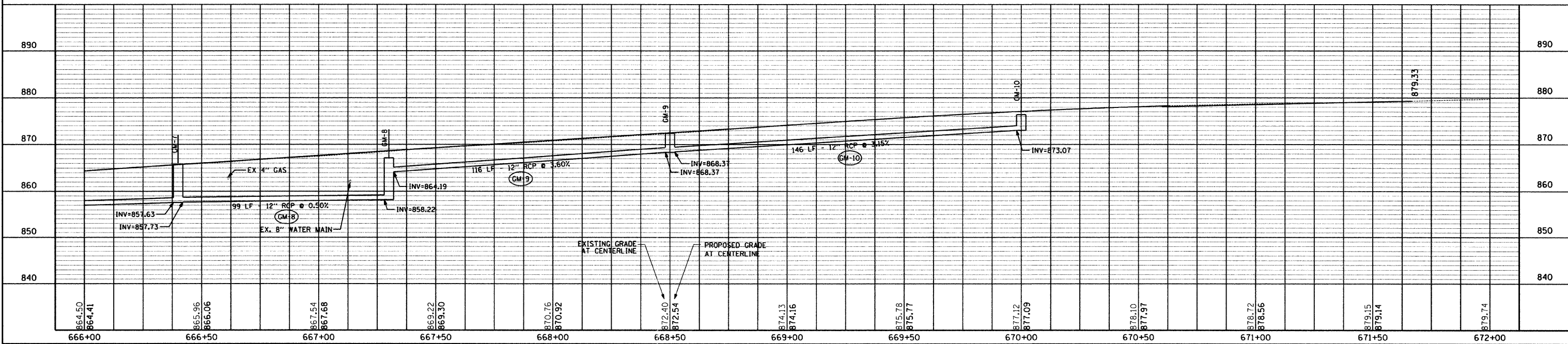
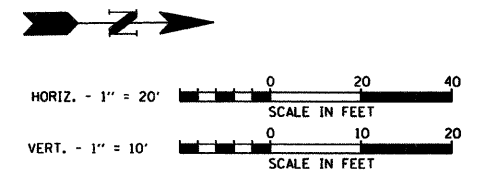
F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	07-00072-00-PV	McHENRY	80	31

ILLINOIS PROJECT
 CONTRACT NO. 63137

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

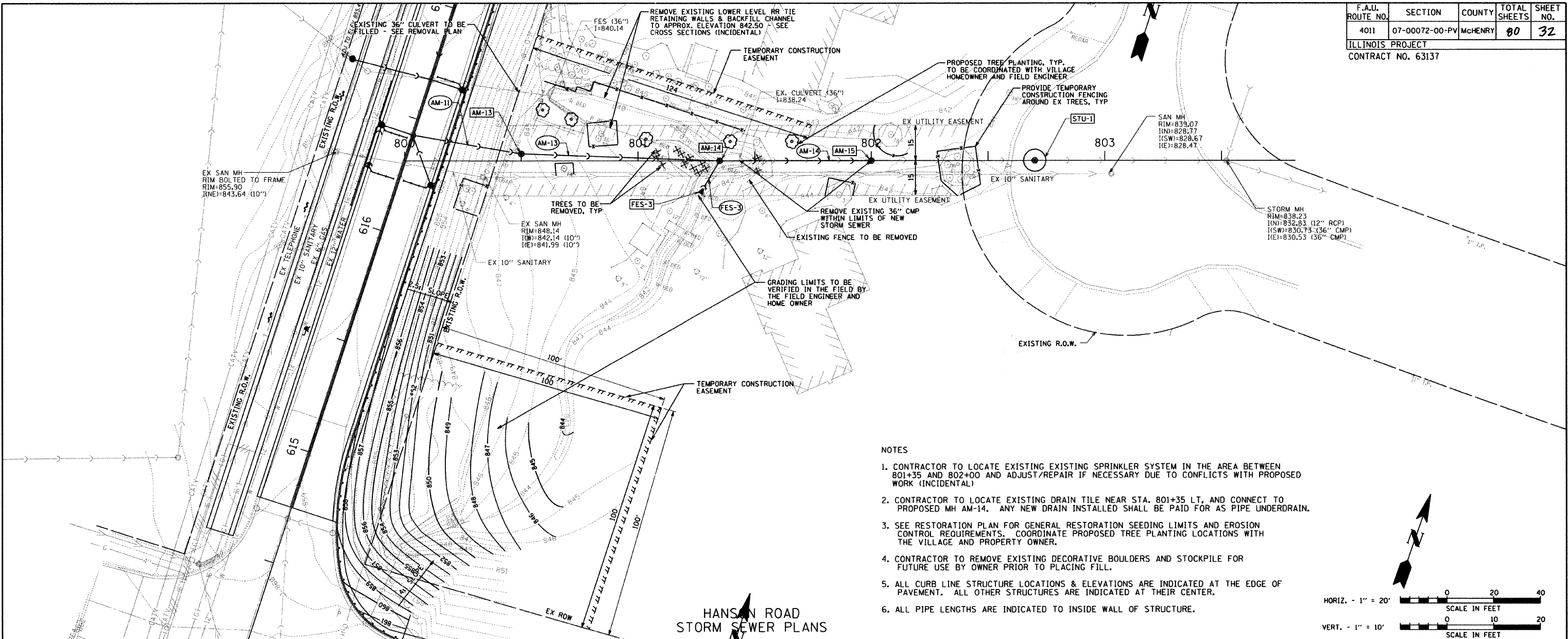


HANSON ROAD
 STORM SEWER PLANS

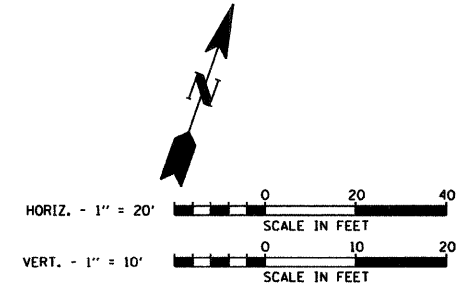


PLAN AND PROFILE

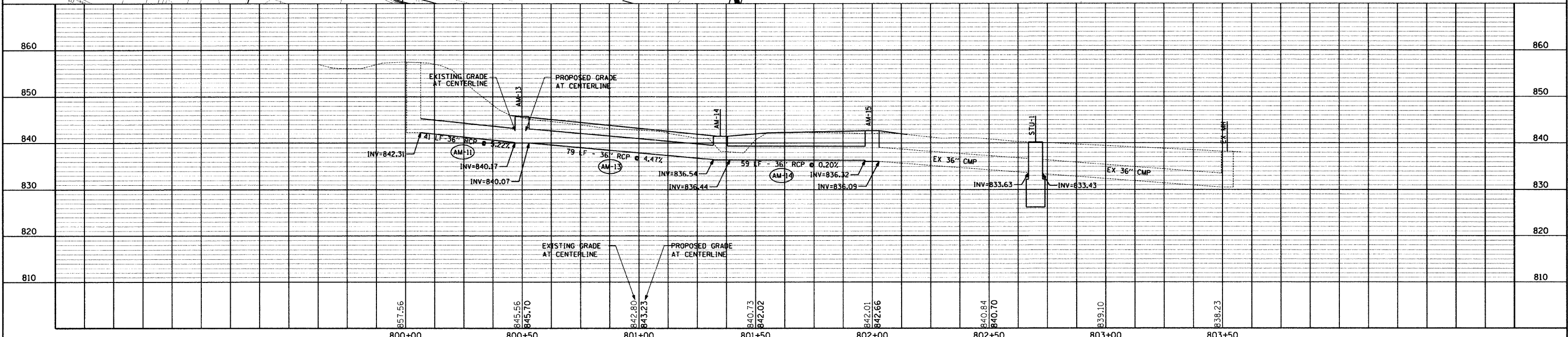
HANSON ROAD STA. 666+00 TO STA. 672+00



- NOTES
1. CONTRACTOR TO LOCATE EXISTING SPRINKLER SYSTEM IN THE AREA BETWEEN 801+35 AND 802+00 AND ADJUST/REPAIR IF NECESSARY DUE TO CONFLICTS WITH PROPOSED WORK (INCIDENTAL)
 2. CONTRACTOR TO LOCATE EXISTING DRAIN TILE NEAR STA. 801+35 LT. AND CONNECT TO PROPOSED MH AM-14. ANY NEW DRAIN INSTALLED SHALL BE PAID FOR AS PIPE UNDERDRAIN.
 3. SEE RESTORATION PLAN FOR GENERAL RESTORATION SEEDING LIMITS AND EROSION CONTROL REQUIREMENTS. COORDINATE PROPOSED TREE PLANTING LOCATIONS WITH THE VILLAGE AND PROPERTY OWNER.
 4. CONTRACTOR TO REMOVE EXISTING DECORATIVE BOULDERS AND STOCKPILE FOR FUTURE USE BY OWNER PRIOR TO PLACING FILL.
 5. ALL CURB LINE STRUCTURE LOCATIONS & ELEVATIONS ARE INDICATED AT THE EDGE OF PAVEMENT. ALL OTHER STRUCTURES ARE INDICATED AT THEIR CENTER.
 6. ALL PIPE LENGTHS ARE INDICATED TO INSIDE WALL OF STRUCTURE.



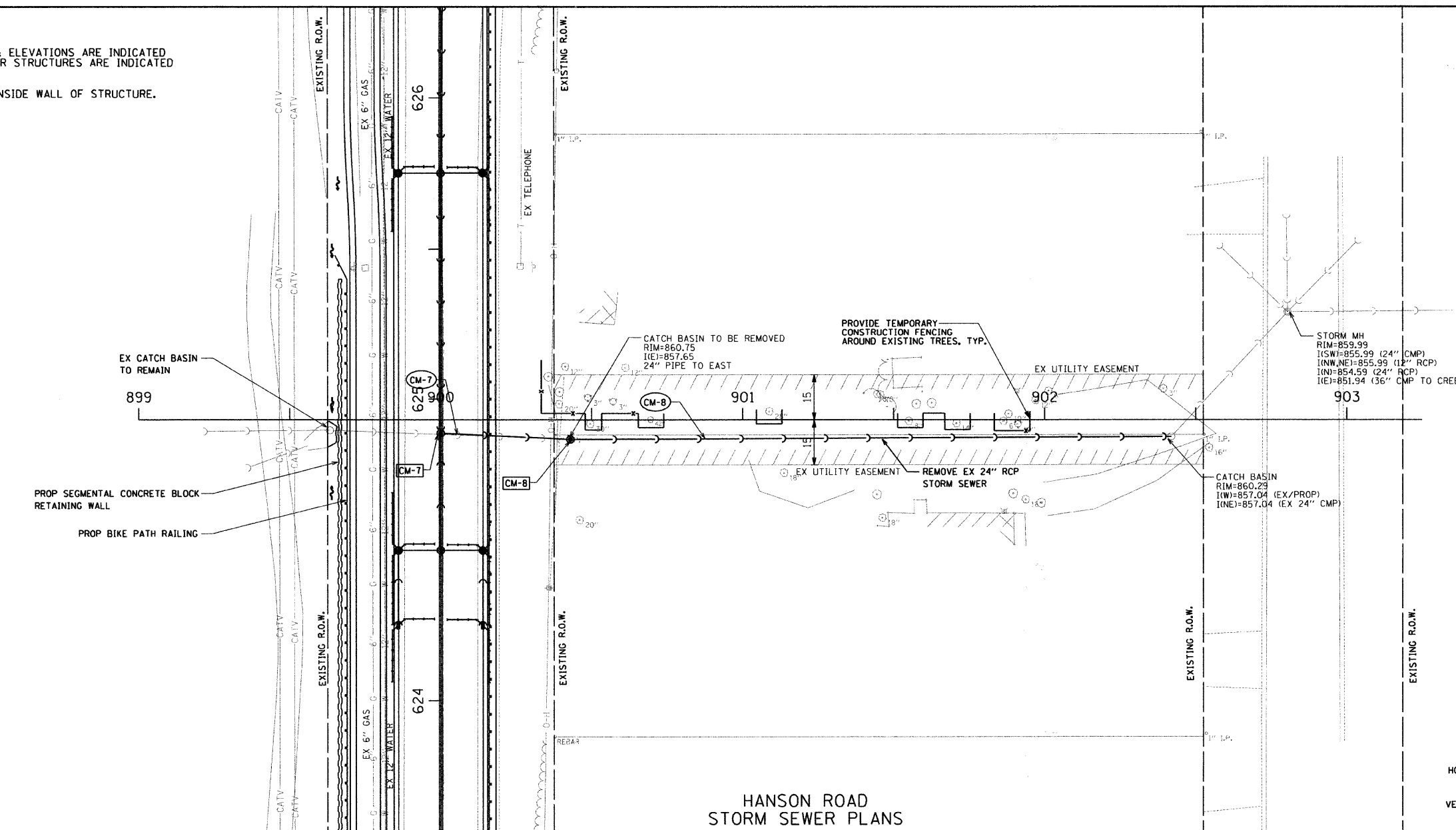
HANSON ROAD
STORM SEWER PLANS



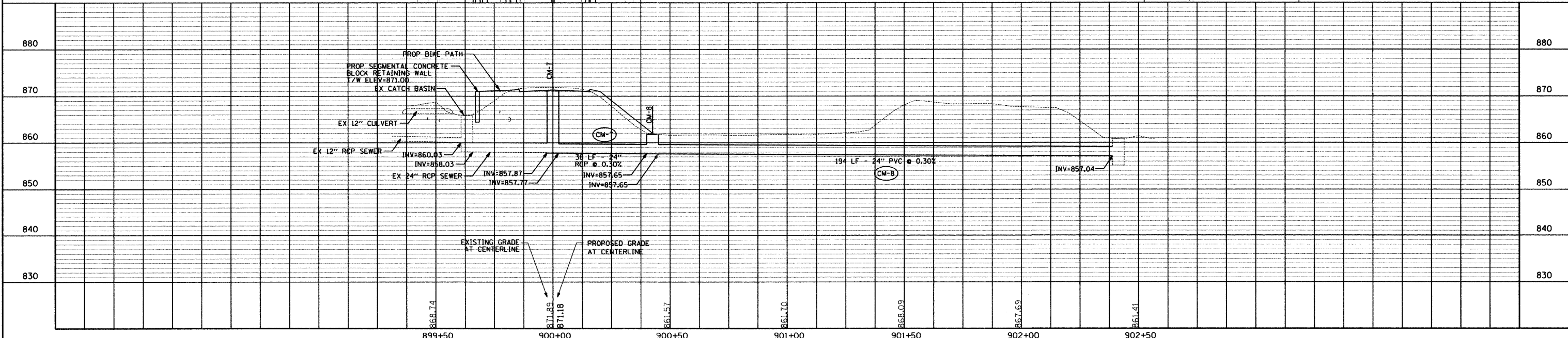
PLAN AND PROFILE HANSON ROAD STA. 800+00 TO STA. 804+00

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	07-00072-00-PV	McHENRY	80	33
ILLINOIS PROJECT				
CONTRACT NO. 63137				

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



HANSON ROAD
STORM SEWER PLANS

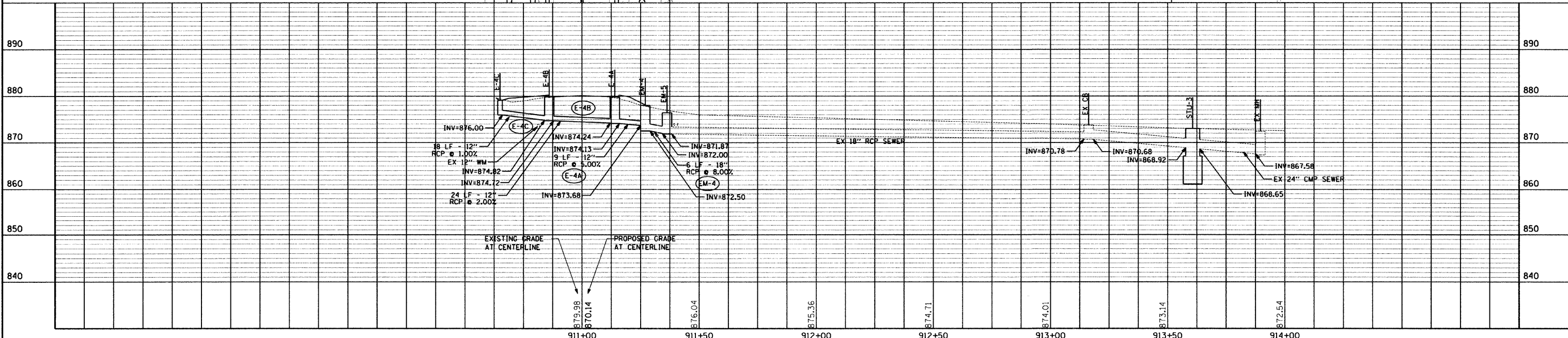
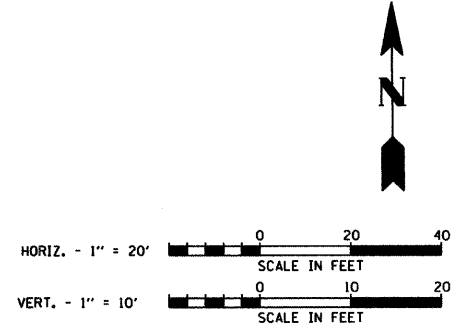
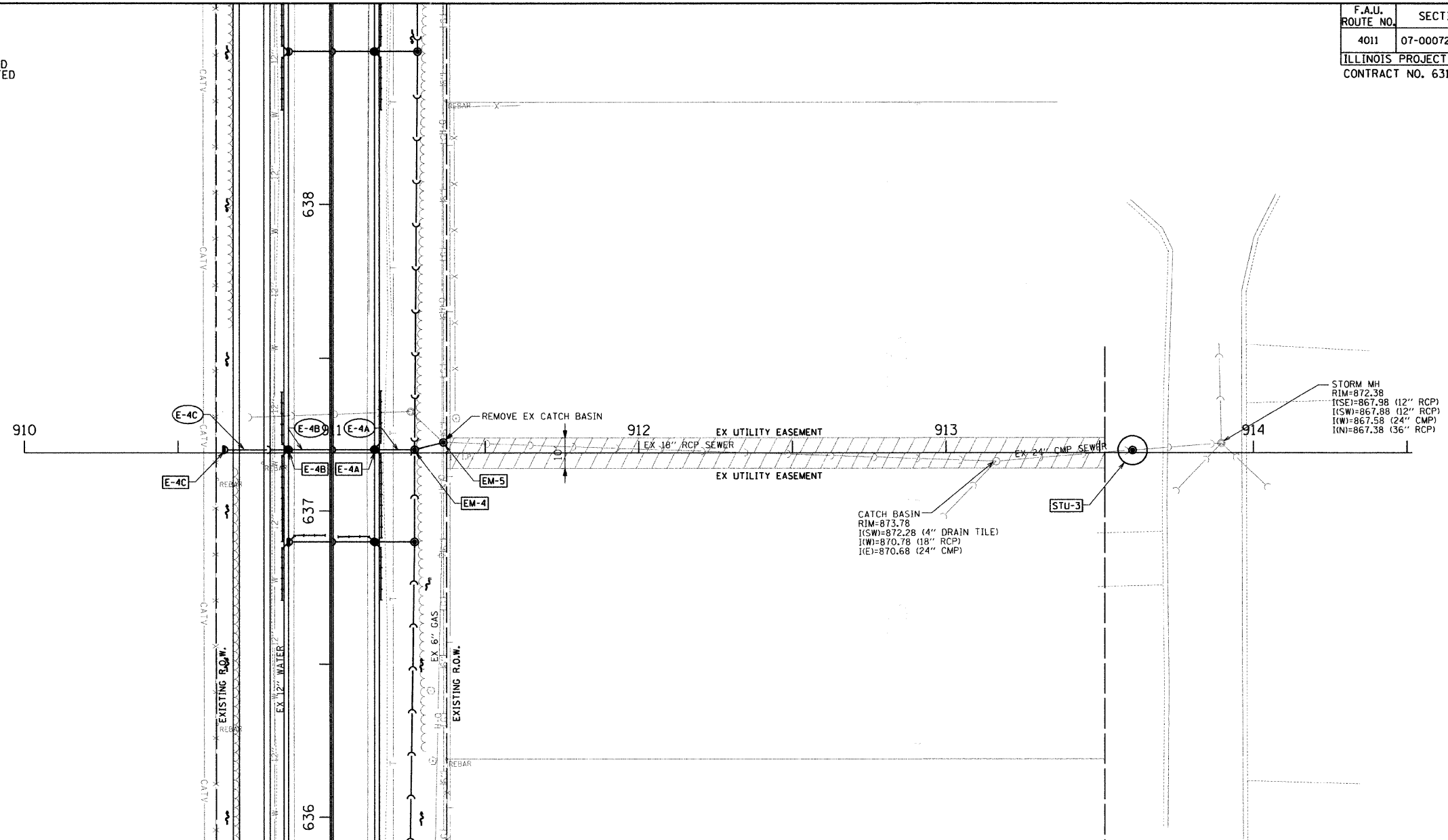


PLAN AND PROFILE

HANSON ROAD STA. 899+00 TO STA. 903+00

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	07-00072-00-PV	McHENRY	80	34
ILLINOIS PROJECT				
CONTRACT NO. 63137				

- NOTES:
1. ALL CURB LINE STRUCTURE LOCATIONS & ELEVATIONS ARE INDICATED AT THE EDGE OF PAVEMENT. ALL OTHER STRUCTURES ARE INDICATED AT THEIR CENTER.
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PLAN AND PROFILE

HANSON ROAD STA. 910+00 TO STA. 914+00

F.A.J. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	07-00072-00-PV	McHENRY	80	36

STRUCTURE SCHEDULES

STRUCTURE NO	LOCATION		STRUCTURE TYPE	FRAME & LID OR GRATE	RIM ELEVATION	INVERT ELEVATION			
	STATION	OFFSET				NORTH	SOUTH	EAST	WEST
DM-1	632+73.0	25.0 FT RT	MH TY A 4 FT DIA	EJIW 6527	882.04	876.60			877.86
D-1A	632+72.2	36.0 FT LT	CB TY A 4 FT DIA	EJIW 7010 - M3	882.90		879.10	879.00	
D-1B	632+29.9	36.0 FT LT	INL TY A 2 FT DIA	EJIW 7010 - M3	882.90	879.90			
DM-2	633+75.0	25.0 FT RT	MH TY A 4 FT DIA	EJIW 6527	880.99	875.18	876.11		876.82
D-2A	633+75.0	14.0 FT RT	CB TY A 4 FT DIA	EJIW 7010 - M3	882.32			877.17	878.62
D-2B	633+75.0	14.0 FT LT	INL TY A 2 FT DIA	EJIW 7010 - M3	882.32			879.12	
DM-3	635+50.0	25.0 FT RT	MH TY A 4 FT DIA	EJIW 6527	879.40	874.23	874.33		875.49
D-3A	635+50.0	14.0 FT RT	CB TY A 4 FT DIA	EJIW 7010 - M3	880.66			875.84	876.96
D-3B	635+50.0	14.0 FT LT	INL TY A 2 FT DIA	EJIW 7010 - M3	880.66			877.46	
DM-4	636+90.0	27.0 FT RT	MH TY A 4 FT DIA	EJIW 6527	877.96	872.77	872.87		874.28
D-4A	636+90.0	14.0 FT RT	CB TY A 4 FT DIA	EJIW 7010 - M3	879.79			874.73	876.09
D-4B	636+90.0	14.0 FT LT	INL TY A 2 FT DIA	EJIW 7010 - M3	879.79			876.59	
EM-1	641+77.8	28.3 FT RT	EXISTING CB	EJIW 6527	(886.17)		883.62		
EM-2	640+65.0	27.0 FT RT	MH TY A 4 FT DIA	EJIW 6527	885.11	880.70	880.60		880.70
E-2A	640+65.0	14.0 FT RT	CB TY A 4 FT DIA	EJIW 7010 - M3	886.61			881.15	881.66
E-2B	640+65.0	14.0 FT LT	CB TY A 4 FT DIA	EJIW 7010 - M3	886.61	883.16	881.90	882.00	
E-2C	640+21.5	33.5 FT LT	INL TY A 2 FT DIA	EJIW 6527	884.97	882.22			
E-2D	641+35.0	32.0 FT LT	INL TY A 2 FT DIA	EJIW 6527	887.15		883.85		
EM-3	638+50.0	28.0 FT RT	MH TY A 4 FT DIA	EJIW 6527	879.42	875.65	875.55		875.65
E-3A	638+50.0	14.0 FT RT	CB TY A 4 FT DIA	EJIW 7010 - M3	881.34			876.15	877.64
E-3B	638+50.0	14.0 FT LT	INL TY A 2 FT DIA	EJIW 7010 - M3	881.34			878.14	
EM-4	637+20.0	27.0 FT RT	MH TY A 4 FT DIA	EJIW 6527	878.05	873.03	872.64	872.50	873.68
E-4A	637+20.0	14.0 FT RT	CB TY A 4 FT DIA	EJIW 7010 - M3	879.86			874.13	874.24
E-4B	637+20.0	14.0 FT LT	CB TY A 4 FT DIA	EJIW 7010 - M3	879.86			875.72	875.82
E-4C	637+20.0	35.0 FT LT	INL TY A 2 FT DIA	EJIW 6527	879.10			876.00	
EM-5	637+22.4	36.4 FT RT	MH TY A 4 FT DIA	EJIW 6527	875.57			871.87 (EX)	872.00
STU-3	913+60.7	0.9 FT LT	PRECAST STC 900	STC FRAME AND LID	872.90			868.65	868.92

PIPE SCHEDULES

PIPE NO	LOCATION		SIZE in	LENGTH ft	SLOPE %	TRENCH BACKFILL cu yd
	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE				
DM-1	DM-1	DM-2	18	98	0.50%	0.0
D-1A	D-1A	DM-1	12	57	2.00%	11.6
D-1B	D-1B	D-1A	12	40	2.00%	6.2
DM-2	DM-2	DM-3	18	171	0.50%	0.0
D-2A	D-2A	DM-2	12	7	5.00%	0.0
D-2B	D-2B	D-2A	12	25	2.00%	4.0
DM-3	DM-3	DM-4	18	136	1.00%	0.0
D-3A	D-3A	DM-3	12	7	5.00%	0.0
D-3B	D-3B	D-3A	12	25	2.00%	4.0
DM-4	DM-4	EM-4	18	26	0.50%	0.0
D-4A	D-4A	DM-4	12	9	5.00%	0.0
D-4B	D-4B	D-4A	12	25	2.00%	4.0
EM-1	EM-1	EM-2	12	109	2.68%	0.0
EM-2	EM-2	EM-3	12	211	2.96%	0.0
E-2A	E-2A	EM-2	12	9	5.00%	0.0
E-2B	E-2B	E-2A	12	24	1.00%	7.2
E-2C	E-2C	E-2B	12	45	0.50%	10.9
E-2D	E-2D	E-2B	12	69	1.00%	13.6
EM-3	EM-3	EM-4	18	126	2.00%	0.0
E-3A	E-3A	EM-3	12	10	5.00%	0.0
E-3B	E-3B	E-3A	12	25	2.00%	4.0
EM-4	EM-4	EM-5	18	6	8.00%	0.0
E-4A	E-4A	EM-4	12	9	5.00%	0.0
E-4B	E-4B	E-4A	12	24	2.00%	7.5
E-4C	E-4C	E-4B	12	18	1.00%	4.1

ILLINOIS PROJECT
CONTRACT NO. 63137

CONFLICT RESOLUTION CHARTS

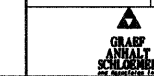
PIPE NO	LOCATION		UPPER PIPE		LOWER PIPE		NOTES
	STATION	OFFSET	TYPE	BOTTOM ELEVATION	TYPE	TOP ELEVATION	
D-1B	632+47.4	36.1 FT LT	PROP 12" STORM	879.41	EX 8" WATERMAIN	876.80	
D-1A	632+73.0	20.5 FT LT	PROP 12" STORM	878.57	EX 12" WATERMAIN	876.69	
D-1A	632+73.0	19.1 FT RT	EX TELEPHONE	879.50	PROP 12" STORM	879.11	
DM-1	633+01.5	24.7 FT RT	EX CATV	878.42	PROP 18" STORM	878.17	
DM-1	633+09.8	24.7 FT RT	EX ELECTRIC	878.33	PROP 18" STORM	878.13	
D-2A	633+74.7	18.9 FT RT	EX TELEPHONE	878.69	PROP 12" STORM	878.48	
DM-2	635+03.0	25.3 FT RT	EX ELECTRIC	876.76	PROP 18" STORM	876.26	
D-3A	635+49.8	20.0 FT RT	EX TELEPHONE	877.31	PROP 12" STORM	876.81	
D-4A	636+89.8	20.1 FT RT	EX TELEPHONE	876.20	PROP 18" STORM	875.70	
E-4C	637+20.0	18.7 FT LT	PROP 12" STORM	875.68	EX 12" WATERMAIN	873.74	
E-4A	637+20.0	20.1 FT RT	EX TELEPHONE	875.60	PROP 12" STORM	875.10	
E-3A	638+49.9	20.2 FT RT	EX TELEPHONE	877.62	PROP 12" STORM	877.12	
E-2C	640+54.4	18.5 FT LT	PROP 12" STORM	881.88	EX 12" WATERMAIN	880.38	
E-2A	640+65.0	20.3 FT RT	EX TELEPHONE	883.11	PROP 12" STORM	882.12	
E-2D	640+82.1	18.4 FT LT	PROP 12" STORM	883.14	EX 12" WATERMAIN	881.50	

NOTES:

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REVISIONS	
NAME	DATE

HANSON ROAD IMPROVEMENTS
 EDGEWOOD DRIVE TO HUNTINGTON DRIVE
DRAINAGE SCHEDULE
 DATE: 03-27-09
 DRAWN BY: AJR
 CHECKED BY: MAY
 GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC.
 CHICAGO, ILLINOIS



STRUCTURE SCHEDULES

STRUCTURE NO	LOCATION		STRUCTURE TYPE	FRAME & LID OR GRATE	RIM ELEVATION	INVERT ELEVATION			
	STATION	OFFSET				NORTH	SOUTH	EAST	WEST
FM-3	645+60.0	28.8 FT RT	MH TY A 4 FT DIA	EJIW 6527	885.74	880.53	882.25		880.63
F-3A	645+60.0	14.0 FT RT	CB TY A 4 FT DIA	EJIW 7010 - M4	885.45			881.18	881.65
F-3B	645+60.0	14.0 FT LT	INL TY A 2 FT DIA	EJIW 7010 - M4	885.45			882.15	
FM-4	647+00.0	28.0 FT RT	MH TY A 4 FT DIA	EJIW 6527	878.01	873.54	873.64		873.64
F-4A	647+00.0	14.0 FT RT	CB TY A 4 FT DIA	EJIW 7010 - M4	879.75			874.14	875.95
F-4B	647+00.0	14.0 FT LT	INL TY A 2 FT DIA	EJIW 7010 - M4	879.75			876.45	
FM-5	648+50.0	28.0 FT RT	MH TY A 4 FT DIA	EJIW 6527	869.11	864.73	864.83		864.83
F-5A	648+50.0	14.0 FT RT	CB TY A 4 FT DIA	EJIW 7010 - M4	871.09			865.33	867.29
F-5B	648+50.0	14.0 FT LT	INL TY A 2 FT DIA	EJIW 7010 - M4	871.09			867.79	
FM-6	649+85.0	28.0 FT RT	MH TY A 4 FT DIA	EJIW 6527	861.17	851.50	854.51		856.93
F-6A	649+85.0	16.1 FT RT	CB TY A 4 FT DIA	EJIW 7010 - M4	862.69			857.33	859.14
F-6B	649+85.0	16.4 FT LT	INL TY A 2 FT DIA	EJIW 7010 - M4	863.80			860.50	
FM-7	650+75.0	27.0 FT RT	MH TY A 4 FT DIA	EJIW 6527	856.91	848.86	848.96		850.60
F-7A	650+54.0	45.3 FT LT	EXISTING MH	EJIW 1050 CL	858.85		(856.11)	855.71	(855.81)
FM-8	652+50.0	27.0 FT RT	MH TY A 4 FT DIA	EJIW 6527	842.21	838.27	838.37		838.37
F-8A	652+50.0	14.0 FT RT	CB TY A 4 FT DIA	EJIW 7010 - M4	843.86			838.82	840.06
F-8B	652+50.0	14.0 FT LT	INL TY A 2 FT DIA	EJIW 7010 - M4	843.86			840.56	
FM-9	654+50.0	26.0 FT RT	MH TY A 5 FT DIA	EJIW 6527	832.80	828.77	828.87		828.87
F-9A	654+50.0	14.0 FT RT	CB TY A 4 FT DIA	EJIW 7010 - M4	834.78			829.27	830.98
F-9B	654+50.0	14.0 FT LT	INL TY A 2 FT DIA	EJIW 7010 - M4	834.78			831.48	
FM-10	656+00.0	7.0 FT RT	MH TY A 5 FT DIA	EJIW 1050 CL	831.43	826.14	826.24	827.95	827.67
F-10A	656+00.0	14.0 FT RT	CB TY A 4 FT DIA	EJIW 7010 - M3	831.29				827.99
F-10B	656+00.0	14.0 FT LT	CB TY A 4 FT DIA	EJIW 7010 - M3	831.29			827.99	
FM-11	656+75.0	7.0 FT RT	MH TY A 5 FT DIA	EJIW 1050 CL	830.74	824.30	824.40	827.26	826.98
F-11A	656+75.0	14.0 FT RT	CB TY A 4 FT DIA	EJIW 7010 - M3	830.60				827.30
F-11B	656+75.0	14.0 FT LT	CB TY A 4 FT DIA	EJIW 7010 - M3	830.60			827.30	
STU-4	656+85.0	7.0 FT RT	PRECAST STC 2400	STC FRAME AND LID	830.72	824.10	824.20		

PIPE SCHEDULES

PIPE NO	LOCATION		SIZE	LENGTH	SLOPE	TRENCH BACKFILL
	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE				
FM-3	FM-3	FM-4	15	136	4.72%	0.0
F-3A	F-3A	FM-3	12	11	5.00%	0.0
F-3B	F-3B	F-3A	12	25	2.00%	4.3
FM-4	FM-4	FM-5	15	146	5.97%	0.0
F-4A	F-4A	FM-4	12	10	5.00%	0.0
F-4B	F-4B	F-4A	12	25	2.00%	4.3
FM-5	FM-5	FM-6	15	131	7.88%	0.0
F-5A	F-5A	FM-5	12	10	5.00%	0.0
F-5B	F-5B	F-5A	12	25	2.00%	4.3
FM-6	FM-6	FM-7	15	86	2.95%	100.0
F-6A	F-6A	FM-6	12	8	5.00%	2.8
F-6B	F-6B	F-6A	12	34	4.00%	5.4
FM-7	FM-7	FM-8	15	171	6.13%	0.0
F-7A	F-7A	FM-7	12	73	7.00%	21.5
FM-8	FM-8	FM-9	15	196	4.80%	0.0
F-8A	F-8A	FM-8	12	9	5.00%	0.0
F-8B	F-8B	F-8A	12	25	2.00%	4.3
FM-9	FM-9	FM-10	24	146	2.45%	28.7
F-9A	F-9A	FM-9	12	8	5.00%	0.0
F-9B	F-9B	F-9A	12	25	2.00%	4.3
FM-10	FM-10	FM-11	24	71	2.45%	41.3
F-10A	F-10A	FM-10	12	2	2.00%	0.3
F-10B	F-10B	FM-10	12	16	2.00%	2.7
FM-11	FM-11	STU-4	24	5	2.00%	4.0
F-11A	F-11A	FM-11	12	2	2.00%	0.3
F-11B	F-11B	FM-11	12	16	2.00%	2.7
STU-4	STU-4	PROP CULVERT	24	8	2.00%	6.6

CONFLICT RESOLUTION CHARTS

PIPE NO	LOCATION		UPPER PIPE		LOWER PIPE		NOTES
	STATION	OFFSET	TYPE	BOTTOM ELEVATION	TYPE	TOP ELEVATION	
F-3A	645+60.0	21.4 FT RT	EX TELEPHONE	882.59	PROP 12" STORM	882.10	
F-4A	647+00.0	22.0 FT RT	EX TELEPHONE	875.51	PROP 12" STORM	875.01	
F-5A	648+50.0	22.4 FT RT	EX TELEPHONE	866.70	PROP 12" STORM	865.03	
FM-5	649+29.3	28.0 FT RT	EX ELECTRIC	860.87	PROP 15" STORM	860.37	
FM-5	649+40.0	28.0 FT RT	EX 4" GAS	860.22	PROP 15" STORM	859.46	
F-6A	649+85.0	22.8 FT RT	EX TELEPHONE	858.75	PROP 12" STORM	857.08	
FM-6	650+06.6	27.6 FT RT	EX 12" WATERMAIN	854.15	PROP 15" STORM	852.65	
F-7A	650+54.7	42.1 FT RT	EX 4" GAS	857.10	PROP 12" STORM	856.74	
F-7A	650+56.9	34.8 FT LT	PROP 12" STORM	856.72	PROP 12" STORM	856.25	
F-7A	650+73.7	23.1 FT RT	EX TELEPHONE	853.75	PROP 12" STORM	852.05	
F-8A	652+50.0	21.8 FT RT	EX TELEPHONE	840.19	PROP 12" STORM	839.69	
F-9A	654+50.0	17.4 FT RT	EX TELEPHONE	831.88	PROP 12" STORM	830.34	
FM-9	655+23.6	16.2 FT RT	EX TELEPHONE	830.27	PROP 24" STORM	829.78	
FM-10	656+64.7	7.0 FT RT	PROP 36" STORM	824.29	EX 8" SANITARY	818.01	

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REVISIONS	
NAME	DATE

HANSON ROAD IMPROVEMENTS
 EDGEWOOD DRIVE TO HUNTINGTON DRIVE
 DRAINAGE SCHEDULE
 DATE: 03-27-09
 DRAWN BY: AJR
 CHECKED BY: MAY



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

STRUCTURE SCHEDULES

STRUCTURE NO	LOCATION		STRUCTURE TYPE	FRAME & LID OR GRATE	RIM ELEVATION	INVERT ELEVATION			
	STATION	OFFSET				NORTH	SOUTH	EAST	WEST
STU-5	657+17.0	7.0 FT RT	STC 2400	STC FRAME & LID	830.68	824.26	824.16		
GM-1	657+26.0	7.0 FT RT	MH TY A 5 FT DIA	EJIW 1050 CL	830.66	825.82	824.32	827.16	827.05
G-1A	657+26.0	14.0 FT RT	CB TY A 4 FT DIA	EJIW 7010 - M3	830.52				827.22
G-1B	657+26.0	14.0 FT LT	CB TY A 4 FT DIA	EJIW 7010 - M3	830.52			827.22	
GM-2	658+00.0	7.0 FT RT	MH TY A 5 FT DIA	EJIW 1050 CL	831.13	826.97	826.87	827.63	827.52
G-2A	658+00.0	14.0 FT RT	CB TY A 4 FT DIA	EJIW 7010 - M3	830.99				827.69
G-2B	658+00.0	14.0 FT LT	CB TY A 4 FT DIA	EJIW 7010 - M3	830.99			827.69	
GM-3	659+50.0	7.0 FT RT	MH TY A 4 FT DIA	EJIW 1050 CL	833.54	829.26	829.16	830.04	829.93
G-3A	659+50.0	14.0 FT RT	CB TY A 4 FT DIA	EJIW 7010 - M3	833.40				830.10
G-3B	659+50.0	14.0 FT LT	CB TY A 4 FT DIA	EJIW 7010 - M3	833.40			830.10	
GM-4	661+45.0	27.0 FT RT	MH TY A 4 FT DIA	EJIW 6527	837.88	833.17	831.56		833.17
G-4A	661+45.0	14.0 FT RT	CB TY A 4 FT DIA	EJIW 7010 - M3	839.36			833.35	835.69
G-4B	661+45.0	14.0 FT LT	CB TY A 4 FT DIA	EJIW 7010 - M3	839.36	836.04		835.94	
G-4C	661+90.0	33.0 FT LT	INL TY A 2 FT DIA	EJIW 6527	840.95		837.65		
GM-5	663+25.0	27.0 FT RT	MH TY A 4 FT DIA	EJIW 6527	848.35	844.92	844.82		844.92
G-5A	663+25.0	14.0 FT RT	CB TY A 4 FT DIA	EJIW 7010 - M4	849.12			845.10	845.57
G-5B	663+25.0	14.0 FT LT	INL TY A 2 FT DIA	EJIW 7010 - M4	849.12			845.82	
GM-6	665+00.0	25.0 FT RT	MH TY A 4 FT DIA	EJIW 6527	859.52	855.59	853.02		856.12
G-6A	665+00.0	14.0 FT RT	INL TY A 2 FT DIA	EJIW 7010 - M4	859.87			856.22	856.32
G-6B	665+00.0	14.0 FT LT	CB TY A 4 FT DIA	EJIW 7010 - M4	859.87			856.57	
GM-7	666+40.0	25 FT RT	MH TY A 4 FT DIA	EJIW 1050 CL	865.80	857.73	857.63		
GM-8	667+30.0	25.0 FT LT	MH TY A 4 FT DIA	EJIW 6527	867.20	864.19	858.22	863.90	862.21
G-8A	667+32.0	19.8 FT RT	CB TY A 4 FT DIA	EJIW 7010 - M3	868.25				865.25
G-8B	667+32.0	16.2 FT LT	CB TY A 4 FT DIA	EJIW 7010 - M4	868.34			864.59	864.00
G-8D	667+07.9	42.0 FT LT	CB TY A 4 FT DIA	EJIW 7010 - M3	867.32	863.33	863.43		863.65
G-8E	667+04.0	64.2 FT LT	INL TY A 2 FT DIA	EJIW 7010 - M3	867.55			863.83	
G-8F	666+65.8	41.9 FT LT	INL TY A 2 FT DIA	EJIW 7010 - M3	867.22	863.63			
GM-9	668+50.0	23.0 FT LT	MH TY A 4 FT DIA	EJIW 6527	871.73	868.47	868.37	868.47	
G-9A	668+50.0	14.0 FT RT	INL TY A 2 FT DIA	EJIW 7010 - M4	872.22				868.92
G-9B	668+50.0	14.0 FT LT	CB TY A 4 FT DIA	EJIW 7010 - M4	872.26			868.67	868.57
GM-10	670+00.0	23.0 FT LT	MH TY A 4 FT DIA	EJIW 6527	876.43		873.07	873.17	
G-10A	670+00.0	14.0 FT RT	INL TY A 2 FT DIA	EJIW 7010 - M3	876.92				873.62
G-10B	670+00.0	14.0 FT LT	CB TY A 4 FT DIA	EJIW 7010 - M3	876.81			873.37	873.27

PIPE SCHEDULES

PIPE NO	LOCATION		SIZE	LENGTH	SLOPE	TRENCH BACKFILL
	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE				
STU-5	STU-5	PROP CULVERT	21	5	5.00%	4.9
GM-1	GM-1	STU-5	21	4	1.50%	2.0
G-1A	G-1A	GM-1	12	3	2.00%	0.5
G-1B	G-1B	GM-1	12	17	1.00%	2.9
GM-2	GM-2	GM-1	21	70	1.50%	17.1
G-2A	G-2A	GM-2	12	3	2.00%	0.5
G-2B	G-2B	GM-2	12	17	1.00%	2.7
GM-3	GM-3	GM-2	18	146	1.50%	35.6
G-3A	G-3A	GM-3	12	3	2.00%	0.5
G-3B	G-3B	GM-3	12	17	1.00%	2.7
GM-4	GM-4	GM-3	18	192	1.20%	37.4
G-4A	G-4A	GM-4	12	9	2.00%	0.0
G-4B	G-4B	G-4A	12	24	1.00%	4.1
G-4C	G-4C	G-4B	12	46	3.50%	8.4
GM-5	GM-5	GM-4	12	176	6.62%	0.0
G-5A	G-5A	GM-5	12	9	2.00%	0.0
G-5B	G-5B	G-5A	12	25	1.00%	4.0
GM-6	GM-6	GM-5	12	171	4.73%	0.0
G-6A	G-6A	GM-6	12	7	1.50%	0.0
G-6B	G-6B	G-6A	12	25	1.00%	4.0
GM-7	GM-7	GM-6	12	136	1.50%	0.0
GM-8	GM-8	GM-7	12	99	0.50%	102.1
G-8A	G-8A	G-8B	12	33	2.00%	6.1
G-8B	G-8B	GM-8	12	5	2.00%	0.0
G-8D	G-8D	GM-8	12	24	0.50%	4.6
G-8E	G-8E	G-8D	12	18	1.00%	3.4
G-8F	G-8F	G-8D	12	39	0.50%	7.5
GM-9	GM-9	G-8C	12	116	3.60%	0.0
G-9A	G-9A	G-10B	12	25	1.00%	4.0
G-9B	G-9B	GM-9	12	5	2.00%	0.0
GM-10	GM-10	GM-9	12	146	3.15%	0.0
G-10A	G-10A	G-10B	12	25	1.00%	3.8
G-10B	G-10B	GM-10	12	5	2.00%	0.0

CONFLICT RESOLUTION CHARTS

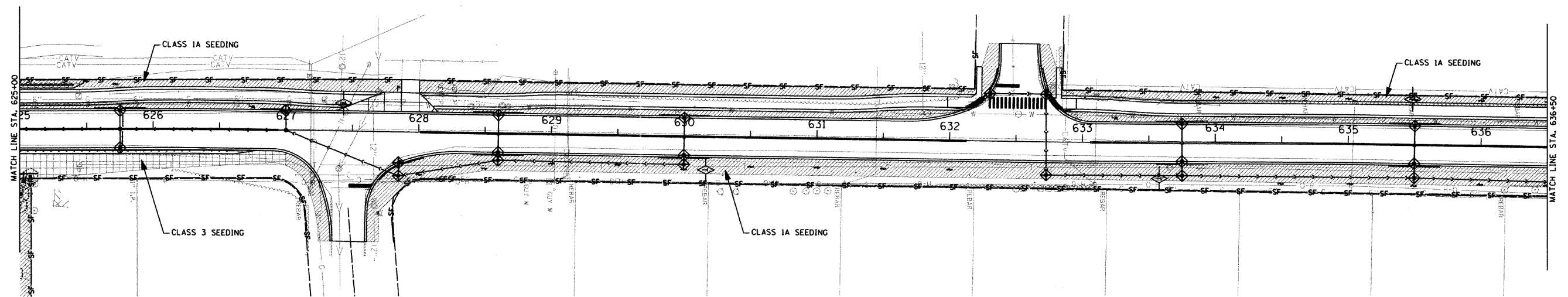
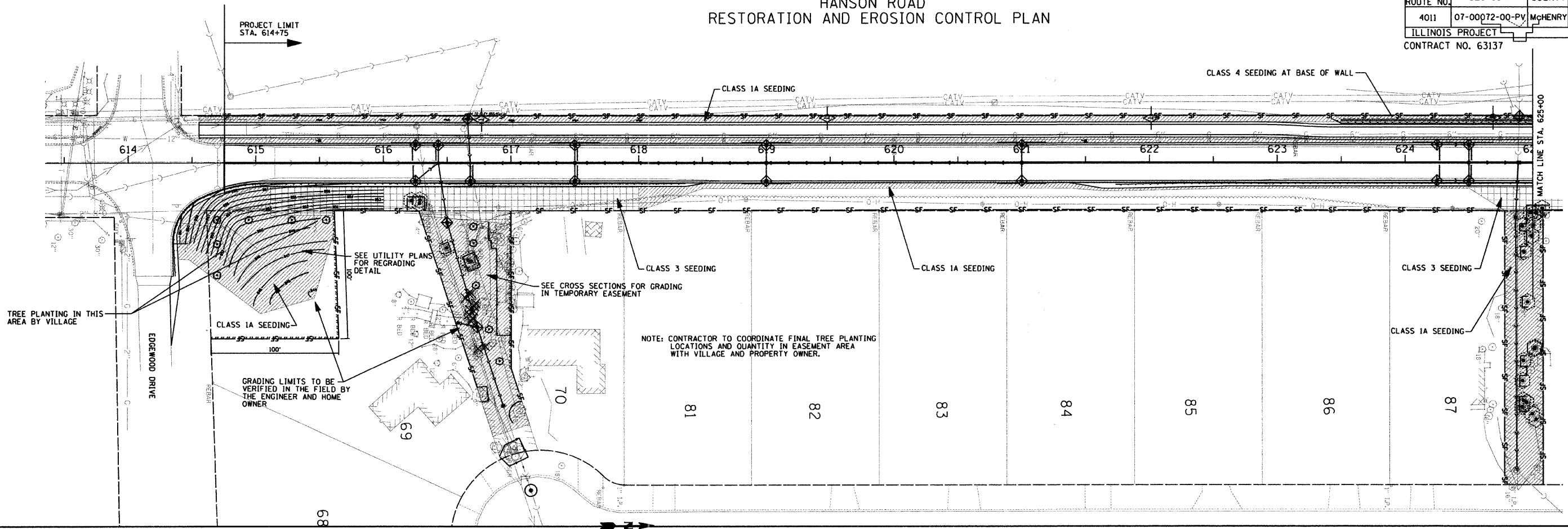
PIPE NO	LOCATION		UPPER PIPE		LOWER PIPE		NOTES
	STATION	OFFSET	TYPE	BOTTOM ELEVATION	TYPE	TOP ELEVATION	
GM-4	661+06.8	23.5 FT RT	EX 6" GAS	833.25	PROP 18" STORM	832.75	
G-4A	661+45.0	23.5 FT RT	EX 6" GAS	835.00	PROP 12" STORM	834.50	
G-4C	661+80.0	28.9 FT LT	PROP 12" STORM	837.34	EX 8" SANITARY	832.83	
G-5A	663+25.0	23.5 FT RT	EX 6" GAS	846.75	PROP 12" STORM	846.25	
GM-6	664+56.7	25.0 FT RT	EX 6" GAS	853.26	PROP 12" STORM	852.66	
GM-8	666+62.3	12.7 FT RT	EX 4" GAS	863.30	PROP 12" STORM	859.02	
GM-8	667+11.8	15.2 FT RT	EX 12" WATER MAIN	860.79	PROP 12" STORM	859.29	
G-8D	667+12.3	39.3 FT LT	EX CATV	864.50	PROP 12" STORM	864.48	
G-8D	667+12.3	39.3 FT LT	PROP 12" STORM	863.31	EX 12" WATER MAIN	861.71	

- 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.
 - UNLESS OTHERWISE NOTED, ALL STORM SEWER SHALL BE CLASS IV REINFORCED CONCRETE PIPE IN ACCORDANCE WITH ASTM C76, WITH RUBBER GASKETED JOINTS IN ACCORDANCE WITH ASTM C443.
 - LOCATIONS AND ELEVATIONS NOTED IN THE CONFLICT RESOLUTION CHART ARE ASSUMED BASED ON AVAILABLE SURVEY AND ATLAS INFORMATION. ALL CROSSINGS SHALL BE VERIFIED IN THE FIELD, AND ANY CONFLICTS BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.

REVISIONS		<p>HANSON ROAD IMPROVEMENTS EDGEWOOD DRIVE TO HUNTINGTON DRIVE</p> <p>DRAINAGE SCHEDULE</p> <p>DATE: 02-19-09</p> <p>DRAWN BY: AJR CHECKED BY: MAY</p> <p>GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC. CHICAGO, ILLINOIS</p>
NAME	DATE	

HANSON ROAD RESTORATION AND EROSION CONTROL PLAN

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	07-00072-00-PV	McHENRY	80	39
ILLINOIS PROJECT CONTRACT NO. 63137				

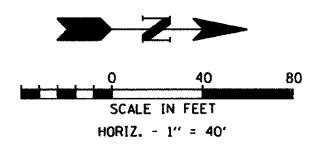


LEGEND:

- LANDSCAPE RESTORATION - 4" TOPSOIL (FURNISH AND PLACE), CLASS 1A SALT TOLERANT LAWN MIXTURE SEEDING & EROSION CONTROL BLANKET (MAX 4:1 SLOPE)
- LANDSCAPE RESTORATION - 4" TOPSOIL (FURNISH AND PLACE) CLASS 3 SLOPE MIXTURE SEEDING & HEAVY DUTY EROSION CONTROL BLANKET (3:1 SLOPES AND STEEPER)
- LANDSCAPE RESTORATION - 4" TOPSOIL (FURNISH AND PLACE) CLASS 4 NATIVE GRASS SEEDING & EROSION CONTROL BLANKET (BUFFER BETWEEN WETLAND AND BIKE PATH)

- PROPOSED SILT FENCE
- PROPOSED CONSTRUCTION FENCING
- PROPOSED FILTERS
- TEMPORARY DITCH CHECKS

- PROPOSED TREE
- TREE AND PLANT MATERIAL TO BE REMOVED
- PROPOSED TREE ROOT PRUNING
- FLOWLINE FOR EXISTING SWALE
- FLOWLINE FOR PROPOSED SWALE



REVISIONS	
NAME	DATE

HANSON ROAD IMPROVEMENTS
 EDGEWOOD DRIVE TO HUNTINGTON DRIVE
 RESTORATION AND EROSION CONTROL PLAN

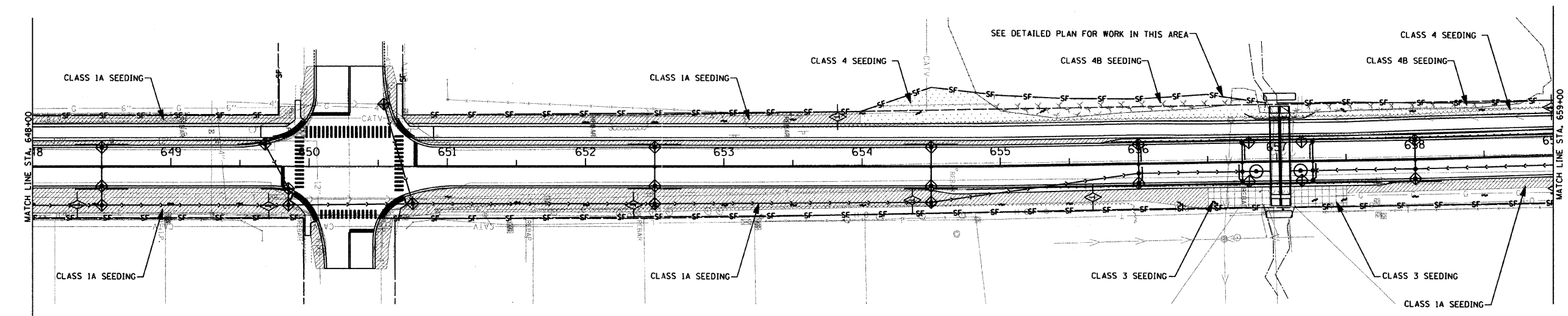
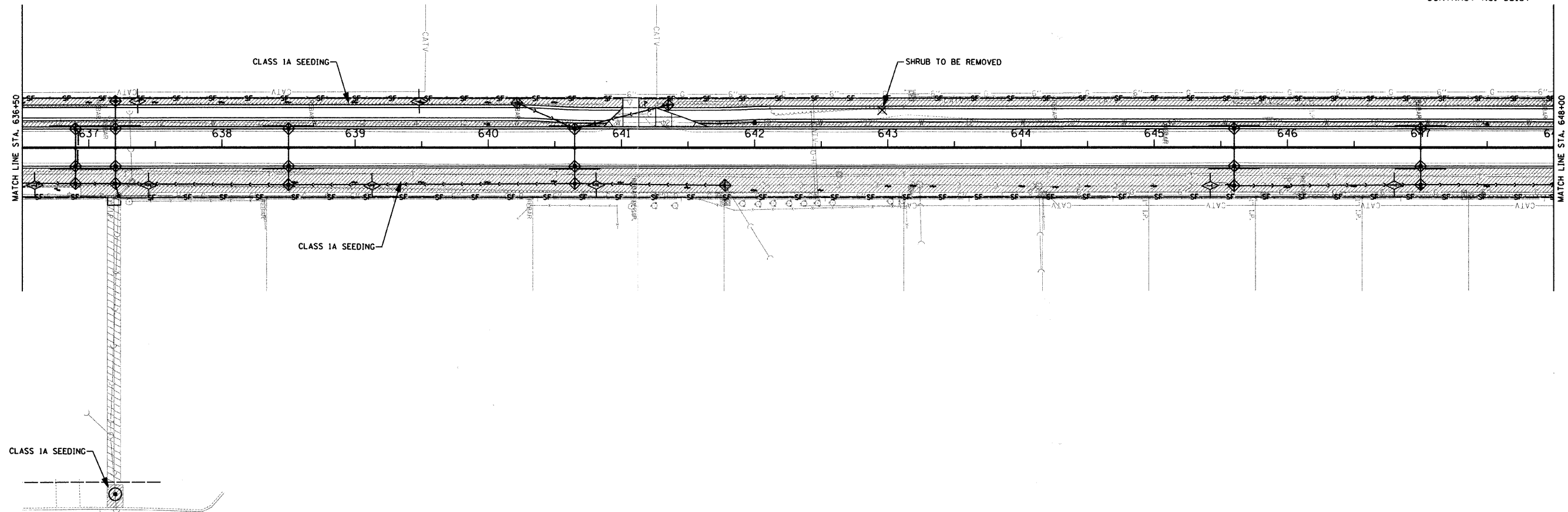
DATE: 03-27-09

DRAWN BY: AJR
 CHECKED BY: MAY

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

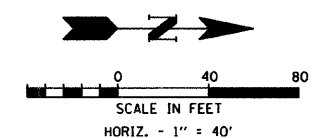
HANSON ROAD RESTORATION AND EROSION CONTROL PLAN

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	07-00072-00-PV	McHENRY	80	40
ILLINOIS PROJECT				
CONTRACT NO. 63137				



LEGEND:

- LANDSCAPE RESTORATION - 4" TOPSOIL (FURNISH AND PLACE), CLASS 1A SALT TOLERANT LAWN MIXTURE SEEDING & EROSION CONTROL BLANKET (MAX 4:1 SLOPE)
- LANDSCAPE RESTORATION - 4" TOPSOIL (FURNISH AND PLACE), CLASS 3 SLOPE MIXTURE SEEDING & HEAVY DUTY EROSION CONTROL BLANKET (3:1 SLOPES AND STEEPER)
- LANDSCAPE RESTORATION - 4" TOPSOIL (FURNISH AND PLACE), CLASS 4 NATIVE GRASS SEEDING & EROSION CONTROL BLANKET (BUFFER BETWEEN WETLAND AND BIKE PATH)
- PROPOSED SILT FENCE
- PROPOSED CONSTRUCTION FENCING
- PROPOSED FILTERS
- TEMPORARY DITCH CHECKS
- LANDSCAPE RESTORATION - 4" TOPSOIL (FURNISH AND PLACE), CLASS 4B WETLAND GRASS AND SEDGE MIXTURE SEEDING (WETLAND AREAS)
- PROPOSED TREE
- TREE AND PLANT MATERIAL TO BE REMOVED
- PROPOSED TREE ROOT PRUNING
- FLOWLINE FOR EXISTING SWALE
- FLOWLINE FOR PROPOSED SWALE



REVISIONS		NAME		DATE	

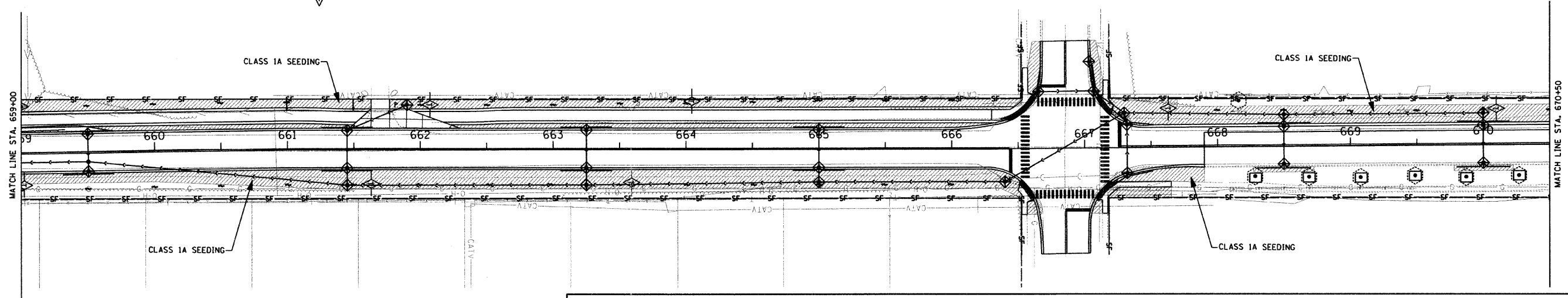
HANSON ROAD IMPROVEMENTS
 EDGEWOOD DRIVE TO HUNTINGTON DRIVE
 RESTORATION AND EROSION CONTROL PLAN
 DATE: 03-27-09
 DRAWN BY: AJR
 CHECKED BY: MAY

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

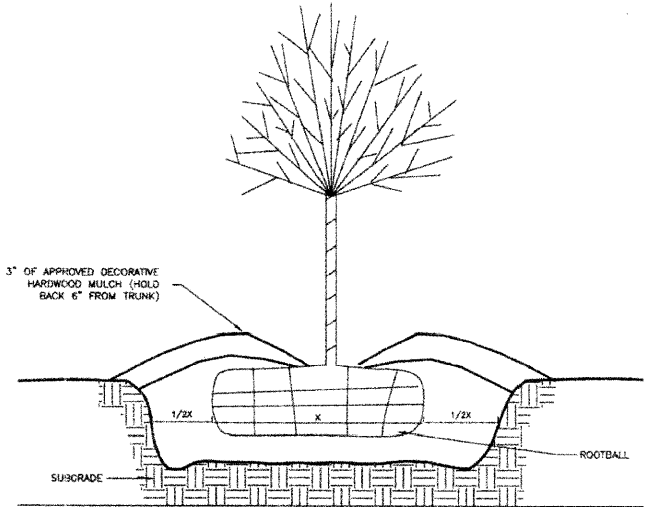
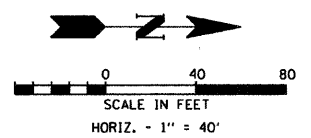
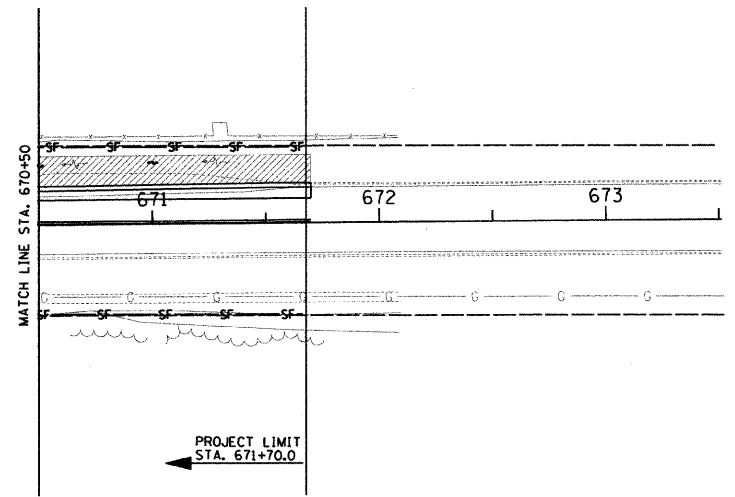
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4011	07-00072-00-PV	McHENRY	80	41
ILLINOIS PROJECT				
CONTRACT NO. 63137				

LEGEND:

- LANDSCAPE RESTORATION - 4" TOPSOIL (FURNISH AND PLACE), CLASS 1A SALT TOLERANT LAWN MIXTURE SEEDING & EROSION CONTROL BLANKET (MAX 4:1 SLOPE)
- LANDSCAPE RESTORATION - 4" TOPSOIL (FURNISH AND PLACE), CLASS 3 SLOPE MIXTURE SEEDING & HEAVY DUTY EROSION CONTROL BLANKET (3:1 SLOPES AND STEEPER)
- LANDSCAPE RESTORATION - 4" TOPSOIL (FURNISH AND PLACE), CLASS 4 NATIVE GRASS SEEDING & EROSION CONTROL BLANKET (BUFFER BETWEEN WETLAND AND BIKE PATH)
- PROPOSED SILT FENCE
- PROPOSED CONSTRUCTION FENCING
- PROPOSED FILTERS
- TEMPORARY DITCH CHECKS
- LANDSCAPE RESTORATION - 4" TOPSOIL (FURNISH AND PLACE), CLASS 4B WETLAND GRASS AND SEDGE MIXTURE SEEDING (WETLAND AREAS)
- PROPOSED TREE
- TREE AND PLANT MATERIAL TO BE REMOVED
- PROPOSED TREE ROOT PRUNING
- FLOWLINE FOR EXISTING SWALE
- FLOWLINE FOR PROPOSED SWALE



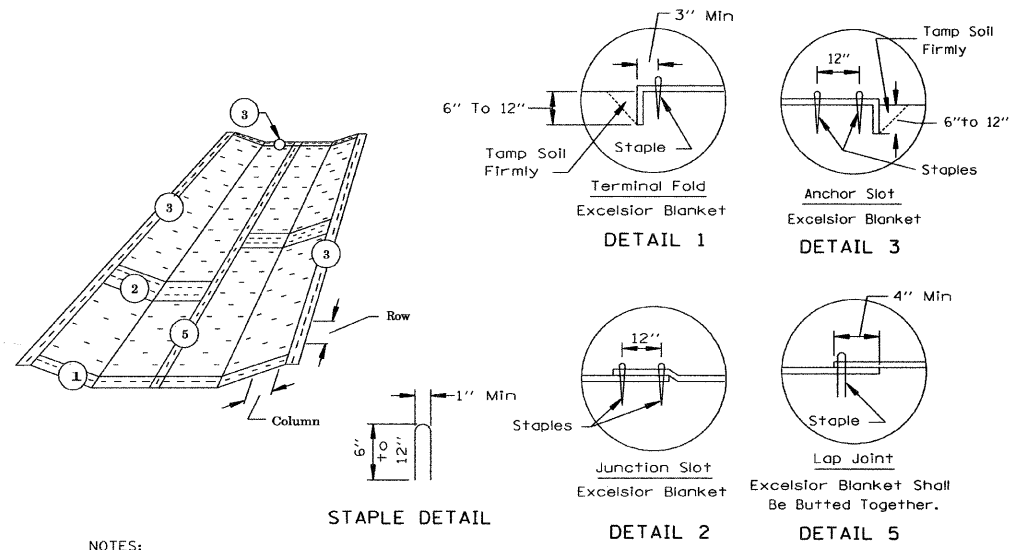
HANSON ROAD RESTORATION AND EROSION CONTROL PLAN



- NOTES:**
1. ALL PARKWAYS WITHIN THE DEDICATED STREET AREA OR OTHER PUBLIC USE AREAS SHALL BE GRADED WITH SIX INCHES (6") OF TOPSOIL AND SEEDED IN AN APPROVED MANNER.
 2. PARKWAY TREES HAVING A TRUNK DIAMETER (MEASURED TWELVE INCHES ABOVE THE GROUND) OF NOT LESS THAN THREE (3") INCHES SHALL BE PLANTED BY THE DEVELOPER THROUGHOUT THE ENTIRE SUBDIVISION. SUCH TREES SHALL BE PLANTED IN THE PARKWAYS, NOT LESS THAN FOUR (4') FEET FROM ALL CURBS, CURB LINES AND SIDEWALKS. PARKWAYS, AS MEASURED FROM THE BACK OF THE CURB TO THE CLOSEST EDGE OF THE SIDEWALK SMALLER THAN 4 FEET SHALL NOT BE SUITABLE FOR PARKWAY TREES UNLESS APPROVED BY THE PARKS & FORESTRY SUPT.
 3. A LIST OF THE APPROVED TREE SPECIES IS AVAILABLE FROM THE PUBLIC WORKS DEPARTMENT, PARKS & FORESTRY DIVISION. TREES FROM THIS LIST ARE THE ONLY SPECIES APPROVED FOR PLANTING WITHIN VILLAGE OWNED RIGHTS-OF-WAY AND ON OTHER VILLAGE OWNED PROPERTY, UNLESS APPROVED BY THE VILLAGE ARBORIST.
 4. ON ALL PLANTING PROJECTS THERE WILL BE NO MORE THAN TWENTY (20%) PERCENT OF ANY GENUS AND NO MORE THAN TEN (10%) PERCENT OF ANY SPECIES.
 5. TREES SHALL BE BALLED AND BURLAPED AND GROWN ACCORDING TO GOOD NURSERY PRACTICES AS SPECIFIED IN THE ARBORICULTURAL SPECIFICATIONS MANUAL. SYNTHETIC BURLAP AND ROPE PRODUCTS SHALL NOT BE USED.
 6. ALL TREES DELIVERED WITH BASKETS SHALL HAVE THE BASKETS REMOVED FROM THE TOP 1/3 OF THE ROOT BALL PRIOR TO PLANTING.
 7. ALL TREES SHALL BE PLANTED IN A PLUMB POSITION, WITH THE BASAL FLARE RESIDING AT GRADE OR SLIGHTLY ABOVE. STAKING OF THE TREES SHALL ONLY BE PERFORMED IF NECESSARY. STAKES WILL REMAIN ON THE SPECIMENS FOR NO LONGER THAN ONE (1) YEAR.
 8. NO SOIL AMENDMENTS SHALL BE ALLOWED.
 9. 3" OF APPROVED DECORATIVE MULCH WILL BE INSTALLED AT THE TIME OF PLANTING (OVER THE ENTIRE ROOT ZONE).
 10. SEE TREE ORDNANCE CHAPTER 9 SECTION 15 FOR ALL DETAILS RELATIVE TO TREE INSTALLATIONS.

TREE PLANTING

FOR CLARIFICATION OR A LIST OF ALLOWABLE TREE SPECIES, CONTACT STEVE LUDWIG, VILLAGE ARBORIST, AT (847) 658-2754 EXT. 411



- NOTES:**
1. Staples are to be placed alternately, in columns approximately 2' apart and in rows approximately 3' apart. Approximately 175 staples are required per 4'x 225' roll of material and 125 staples are required per 4'x 150' roll of material.
 2. Erosion control material shall be placed loosely over ground surface. Do not stretch.
 3. All terminal ends and transverse laps shall be stapled at approximately 12" intervals.
 4. Un-netted products (slopes 3:1 or less)-American Excelsior Company-Curlex NetFree or Profile-Futerra F4 NetLess Coconut Product (slopes greater than 3:1)-East Coast-ESCS-2, Enviroscope-C4000BD or Profile-CocoFlex ET-FGM

EXCELSIOR BLANKET PLAN
FROM THE ILLINOIS URBAN MANUAL, STANDARD IL-530

REVISIONS		NAME	DATE
NO.	DESCRIPTION		

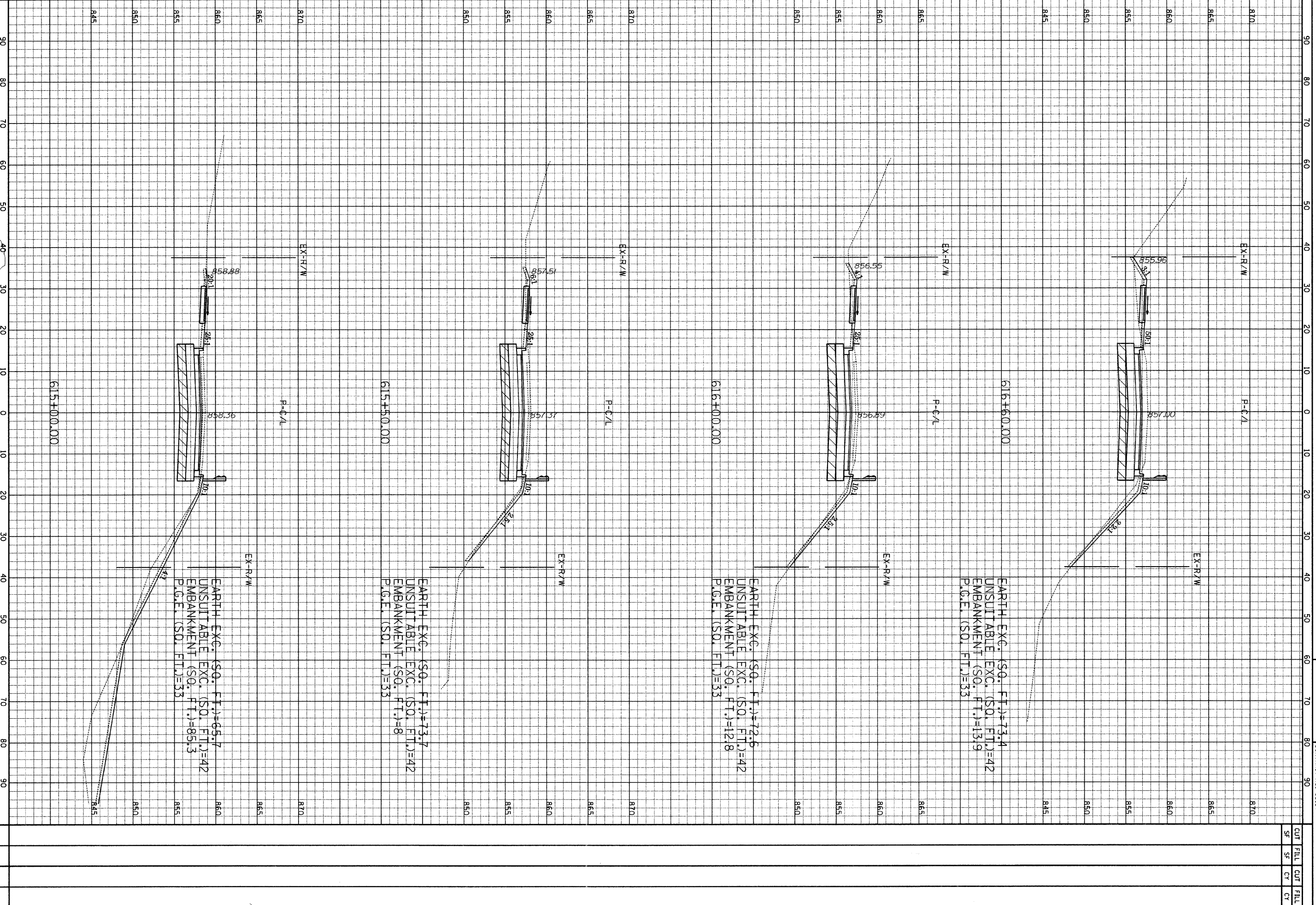
HANSON ROAD IMPROVEMENTS
EDGEWOOD DRIVE TO HUNTINGTON DRIVE
RESTORATION AND EROSION CONTROL PLAN

DATE: 03-27-09

DRAWN BY: AJR
CHECKED BY: MAY

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

PLAN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
401	07-00072-00-4V	MCHEM	80	42
CONTRACT NO. 6317 ILLINOIS		STA. 615+00.00 TO STA. 616+60.00		

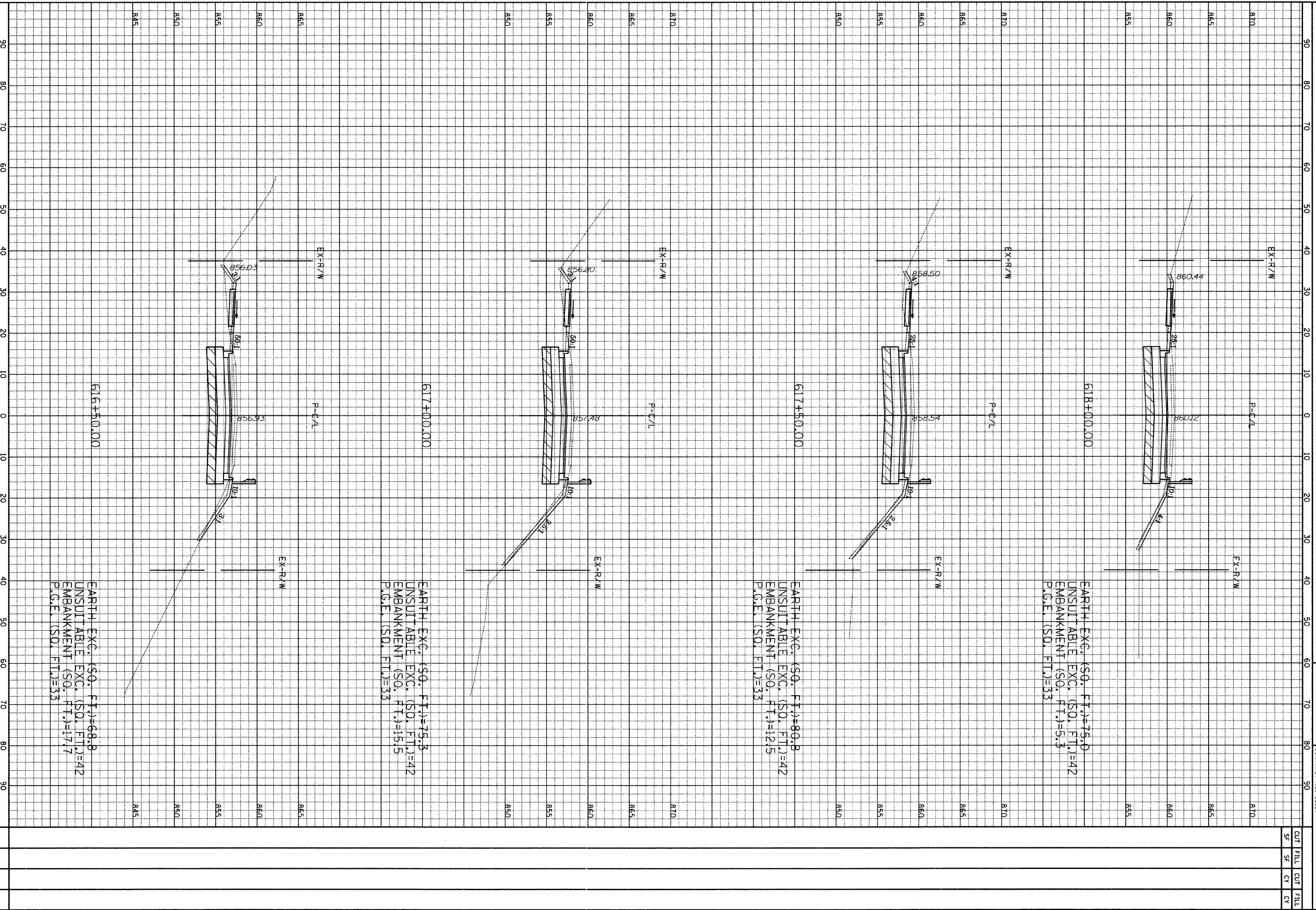


GRAEF, ANHALL, SCHUMBER & ASSOCIATES, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
8801 N. Higgins Road, Suite 280
Chicago, Illinois 60631
312.399.9116

Hanson Road
Edgewood to Huntington
HOR. Scale: 1" = 10'
VERT. Scale: 1" = 5'

FINAL	SECTION	COUNTY	TOTAL
FILE		WORKING	SHEETS
4011	07-08072-00-PV		80
			43

CONTRACT NO. 63137 ILLINOIS
TO STA. 618+00.00



EARTH EXC. (SQ. FT.)=75.0
UNSUITABLE EXC. (SQ. FT.)=42
EMBANKMENT (SQ. FT.)=5.3
P.G.E. (SQ. FT.)=33

EARTH EXC. (SQ. FT.)=80.8
UNSUITABLE EXC. (SQ. FT.)=42
EMBANKMENT (SQ. FT.)=12.5
P.G.E. (SQ. FT.)=33

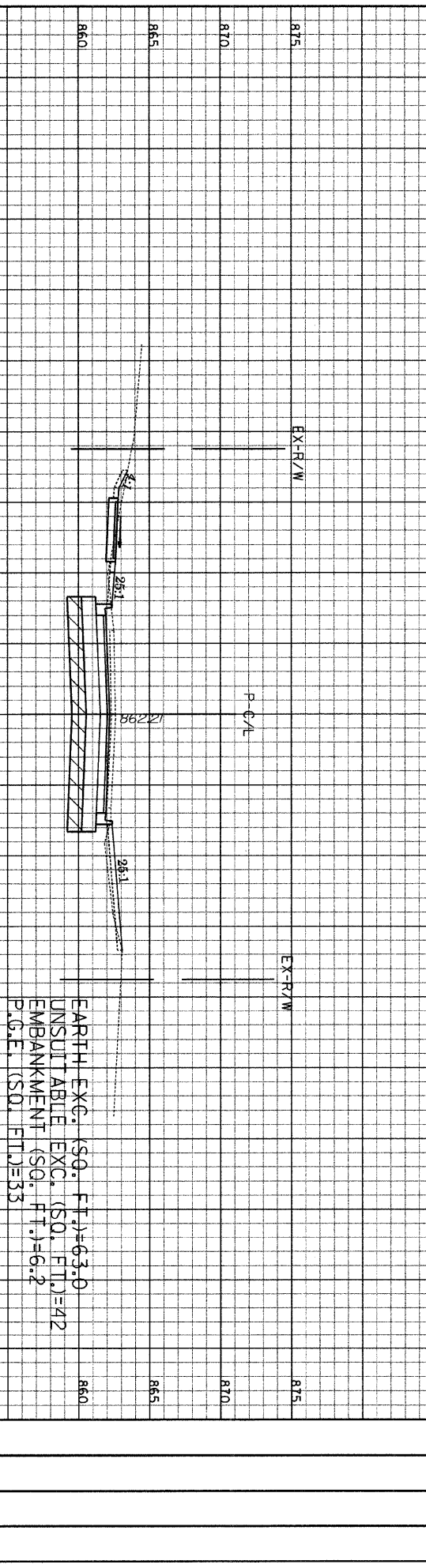
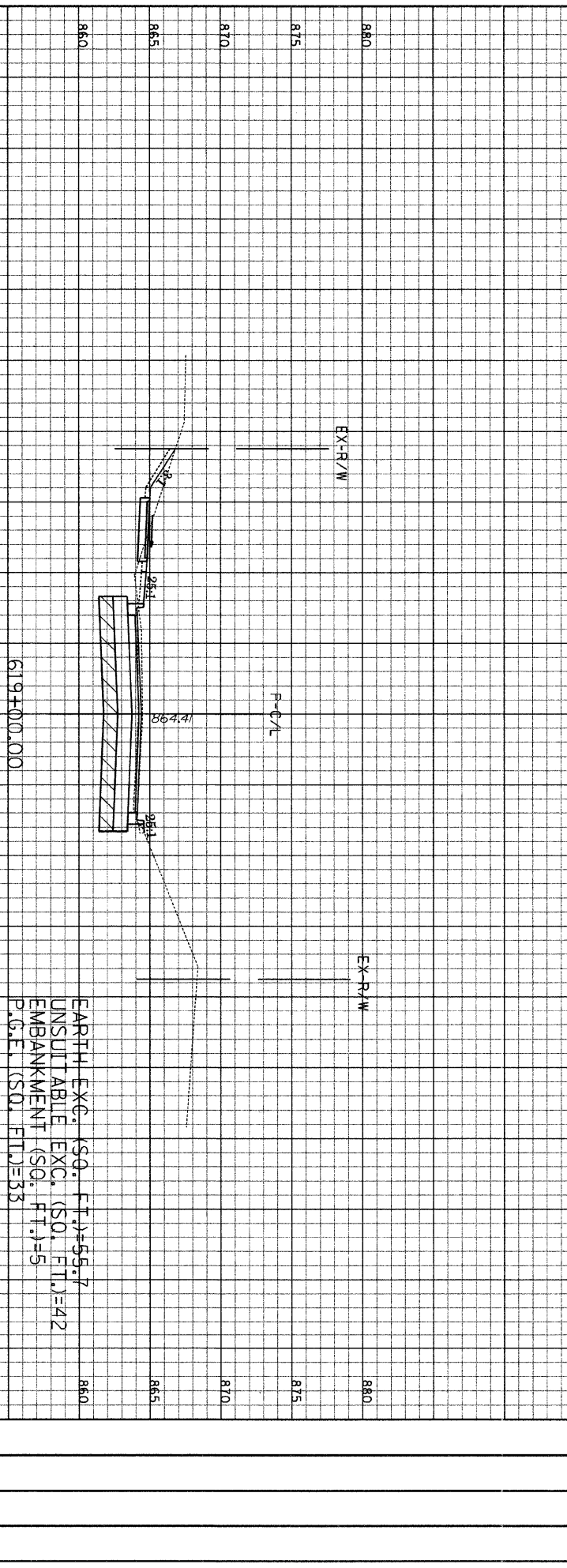
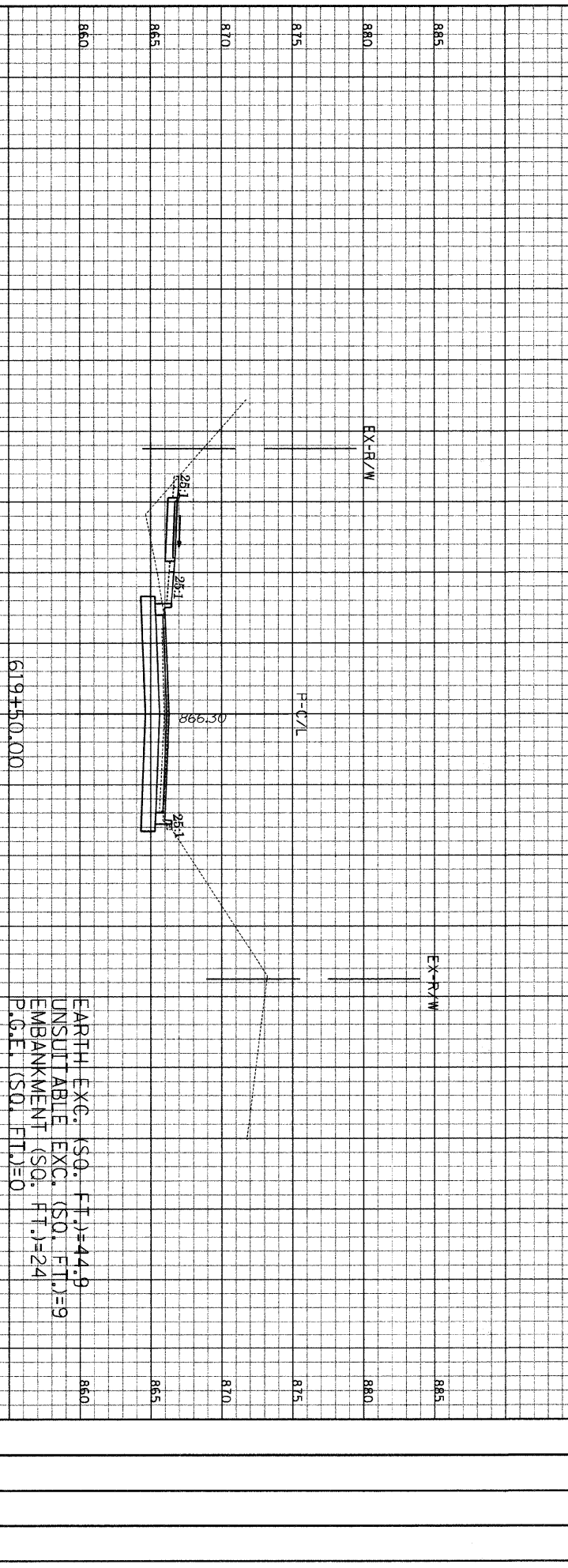
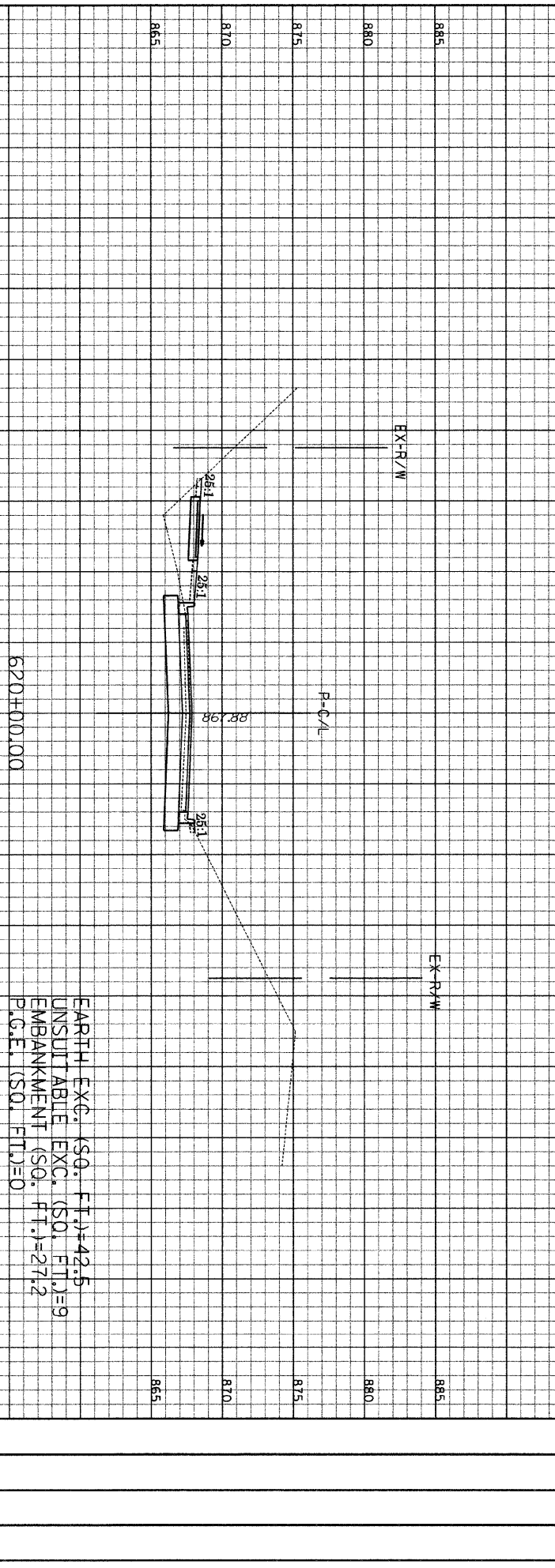
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UNSUITABLE EXC. (SQ. FT.)=42
EMBANKMENT (SQ. FT.)=15.5
P.G.E. (SQ. FT.)=33

EARTH EXC. (SQ. FT.)=68.8
UNSUITABLE EXC. (SQ. FT.)=42
EMBANKMENT (SQ. FT.)=17.7
P.G.E. (SQ. FT.)=33

GRAEF, ANHULT, SPAUGER & ASSOCIATES, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
8501 W. Higgins Road, Suite 280
Chicago, IL 60631, 980-911-5831

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

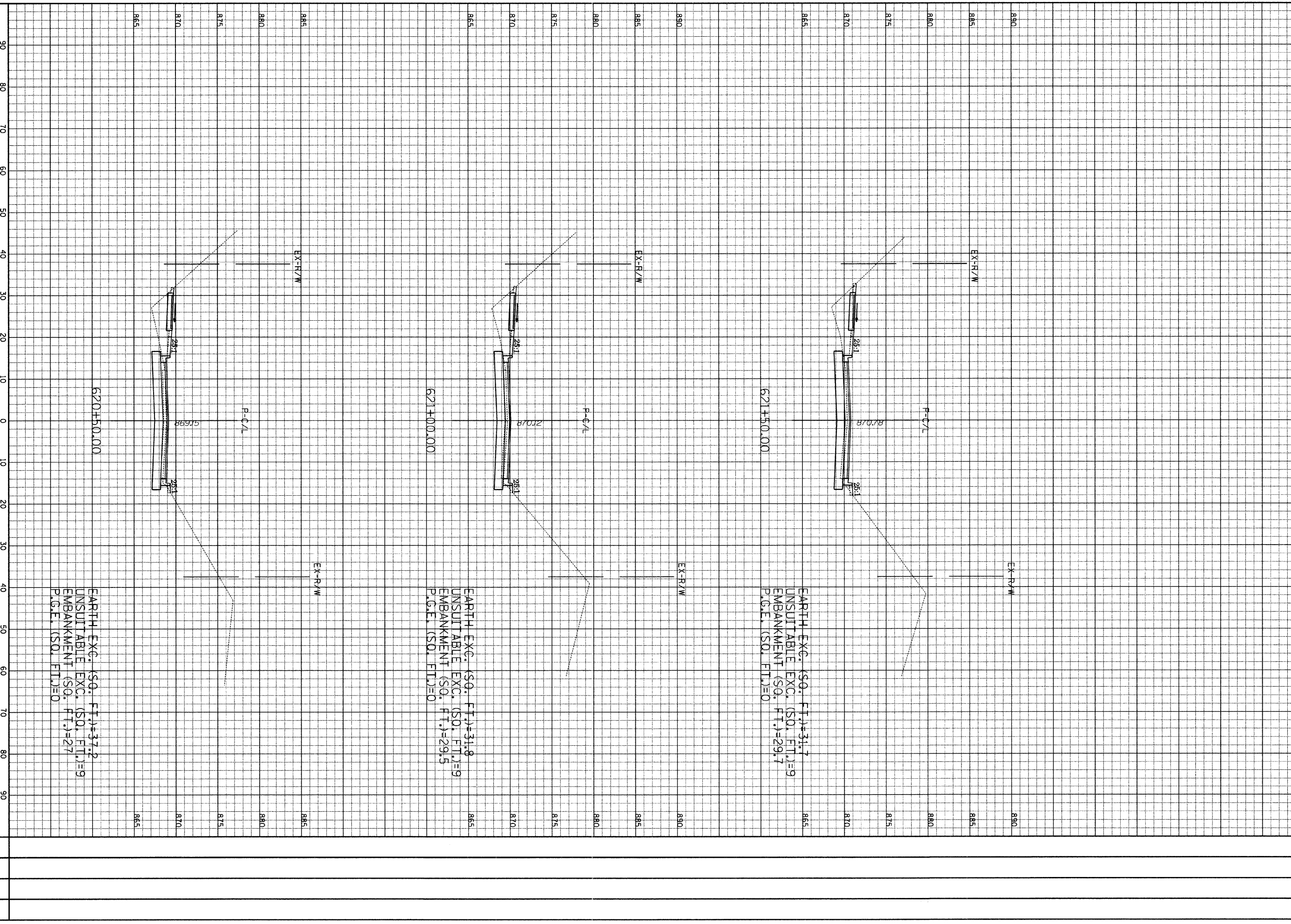
PLAN RTE 401	SECTION 07-0072-00-00-00	COUNTY MORRIS	TOTAL SHEETS 90	SHEET NO. 44
CONTRACT NO. 63137 ILLINOIS			TO STA. 620+00.00	
STA. 618+50.00				
CUT	FILL	CUT	FILL	
SF	SF	CY	CY	



GRAEF, ANNA T, SCHUMER & ASSOCIATES, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8501 W. Higgins Road, Suite 280
 Chicago, Illinois 60631
 (312) 998-9114

HANSON ROAD
 Edgewood to Huntington
 HOR. Scale: 1" = 10'
 VERT. Scale: 1" = 5'


STA. 620+50.00	CONTRACT NO. 63137	ILLINOIS	TOTAL SHEETS	80	SHEET NO.	45
SECTION	COUNTY	TOTAL				
07-00072-00-0V	MOENR	SHEETS				
TO STA. 621+50.00						



EARTH EXC. (SQ. FT.)=31.7
 UNSUITABLE EXC. (SQ. FT.)=9
 EMBANKMENT (SQ. FT.)=29.7
 P.G.E. (SQ. FT.)=0

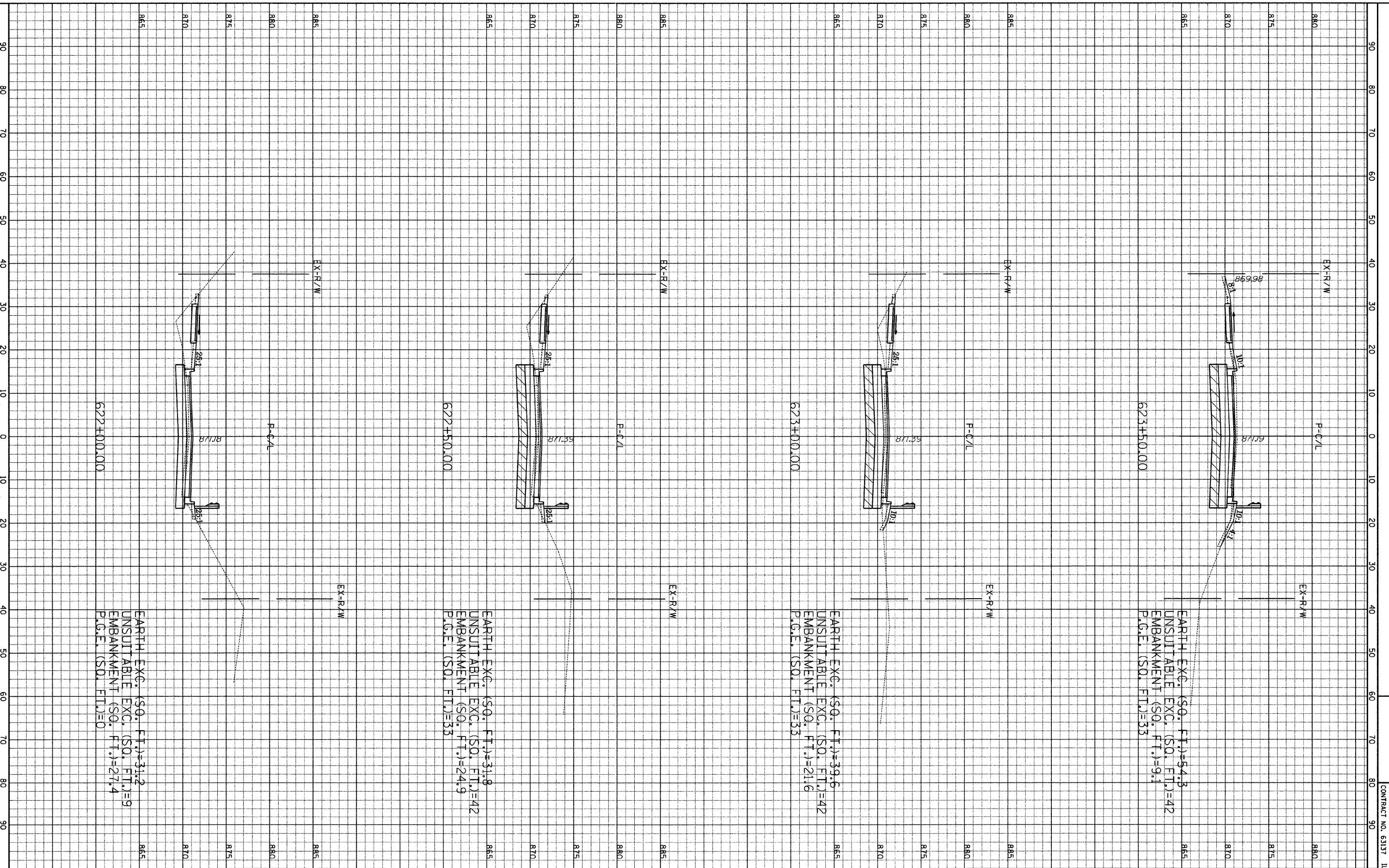
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 UNSUITABLE EXC. (SQ. FT.)=9
 EMBANKMENT (SQ. FT.)=29.5
 P.G.E. (SQ. FT.)=0

EARTH EXC. (SQ. FT.)=37.2
 UNSUITABLE EXC. (SQ. FT.)=9
 EMBANKMENT (SQ. FT.)=27
 P.G.E. (SQ. FT.)=0


 GRAEF, ANHALT, SCHUEBER & ASSOCIATES, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8501 W. Higgins Road, Suite 280
 Chicago, Illinois 60631
 (312) 399-9111

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

PLAN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
01	01-0007-00-00-00	MONROE	80	46
CONTRACT NO. 63137		ILLINOIS		
STA. 622+00.00		TO STA. 623+50.00		



EARTH EXC. (SQ. FT.)=54.3
 UNSUITABLE EXC. (SQ. FT.)=42
 EMBANKMENT (SQ. FT.)=9.1
 P.G.E. (SQ. FT.)=33

EARTH EXC. (SQ. FT.)=39.6
 UNSUITABLE EXC. (SQ. FT.)=21.6
 EMBANKMENT (SQ. FT.)=33

EARTH EXC. (SQ. FT.)=31.8
 UNSUITABLE EXC. (SQ. FT.)=24.9
 EMBANKMENT (SQ. FT.)=33

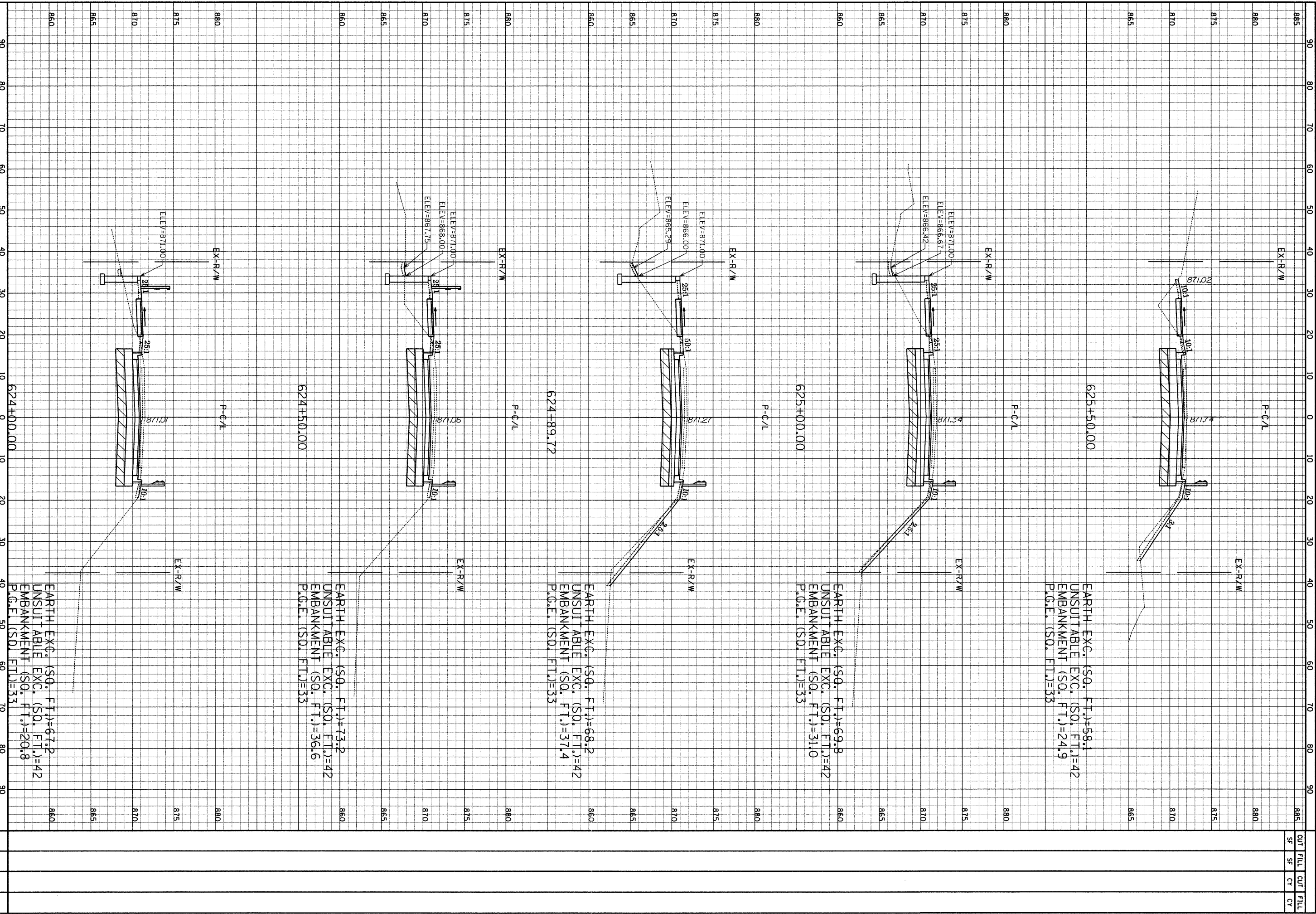
EARTH EXC. (SQ. FT.)=31.2
 UNSUITABLE EXC. (SQ. FT.)=9
 EMBANKMENT (SQ. FT.)=27.4
 P.G.E. (SQ. FT.)=0

GRIFFIN
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8501 W. Higgins Road, Suite 280
 Chicago, Illinois 60631
 TEL: 312-999-9111

HANSON ROAD
 Edgewood to Huntington
 HOR. Scale: 1" = 10'
 Vert. Scale: 1" = 5'

CUT	FILL	CUT	FILL
SF	SF	CY	CY

FILE	SECTION	COUNTY	TOTAL	SHEET
4011	07-00072-00-PV	MCHEMERY	80	47
STA. 624+00.00		TO STA. 625+50.00		
CONTRACT NO. 63137 ILLINOIS				



EARTH EXC. (SQ. FT.)=58.1
 UNSUITABLE EXC. (SQ. FT.)=42
 EMBANKMENT (SQ. FT.)=24.9
 P.G.E. (SQ. FT.)=33

EARTH EXC. (SQ. FT.)=69.8
 UNSUITABLE EXC. (SQ. FT.)=42
 EMBANKMENT (SQ. FT.)=31.0
 P.G.E. (SQ. FT.)=33

EARTH EXC. (SQ. FT.)=68.2
 UNSUITABLE EXC. (SQ. FT.)=42
 EMBANKMENT (SQ. FT.)=37.4
 P.G.E. (SQ. FT.)=33

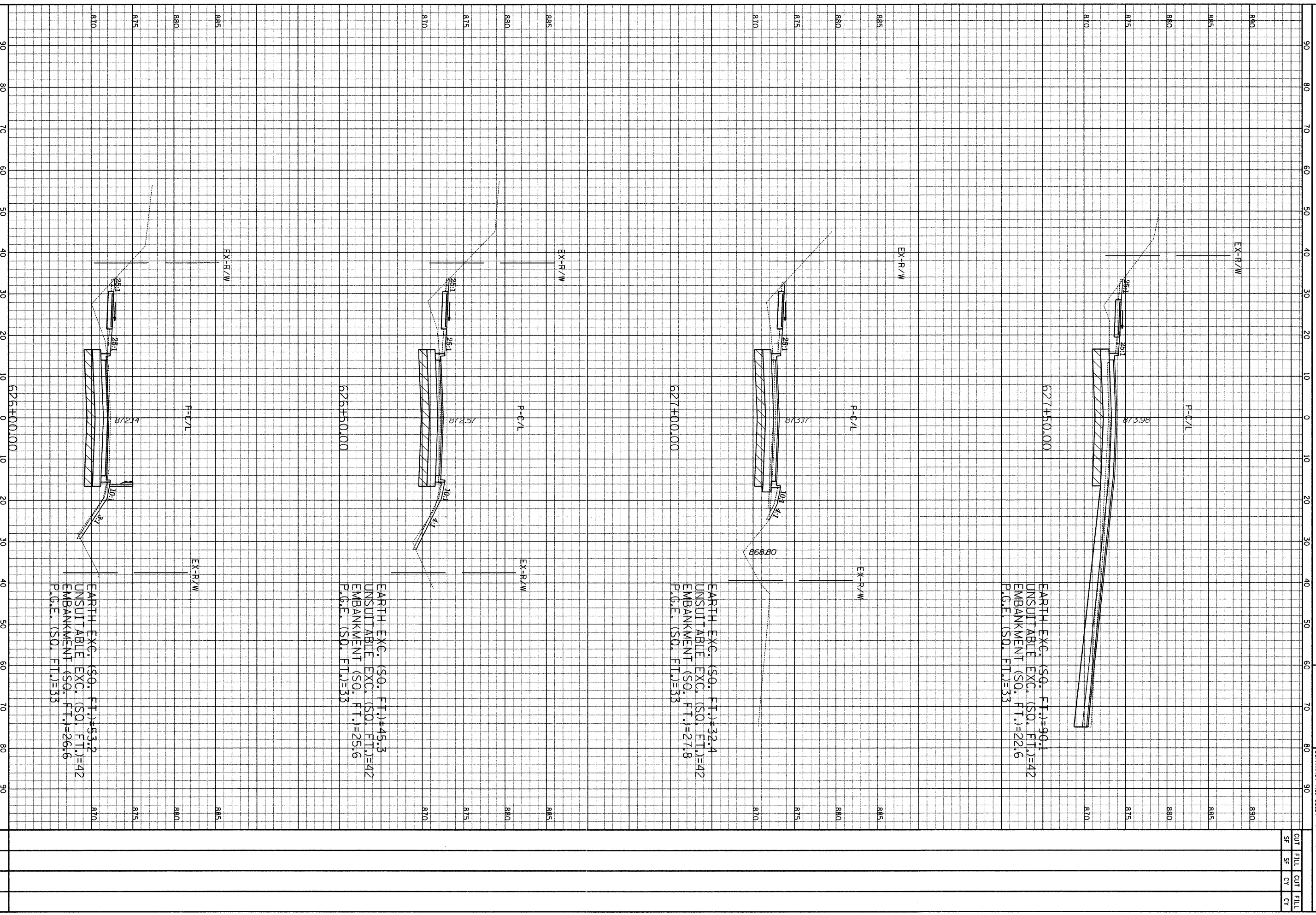
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 EMBANKMENT (SQ. FT.)=36.6
 P.G.E. (SQ. FT.)=33

EARTH EXC. (SQ. FT.)=67.2
 UNSUITABLE EXC. (SQ. FT.)=42
 EMBANKMENT (SQ. FT.)=20.8
 P.G.E. (SQ. FT.)=33

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

GRAF, ANNA L. SCHOENBERG & ASSOCIATES, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8801 N. Higgins Road, Suite 280
 Chicago, Illinois 60631
 (312) 359-0112

PLAN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	01-00072-00-00-00	MOHAWK	90	49
CONTRACT NO. 6317 ILLINOIS			TO STA. 627+50.00	

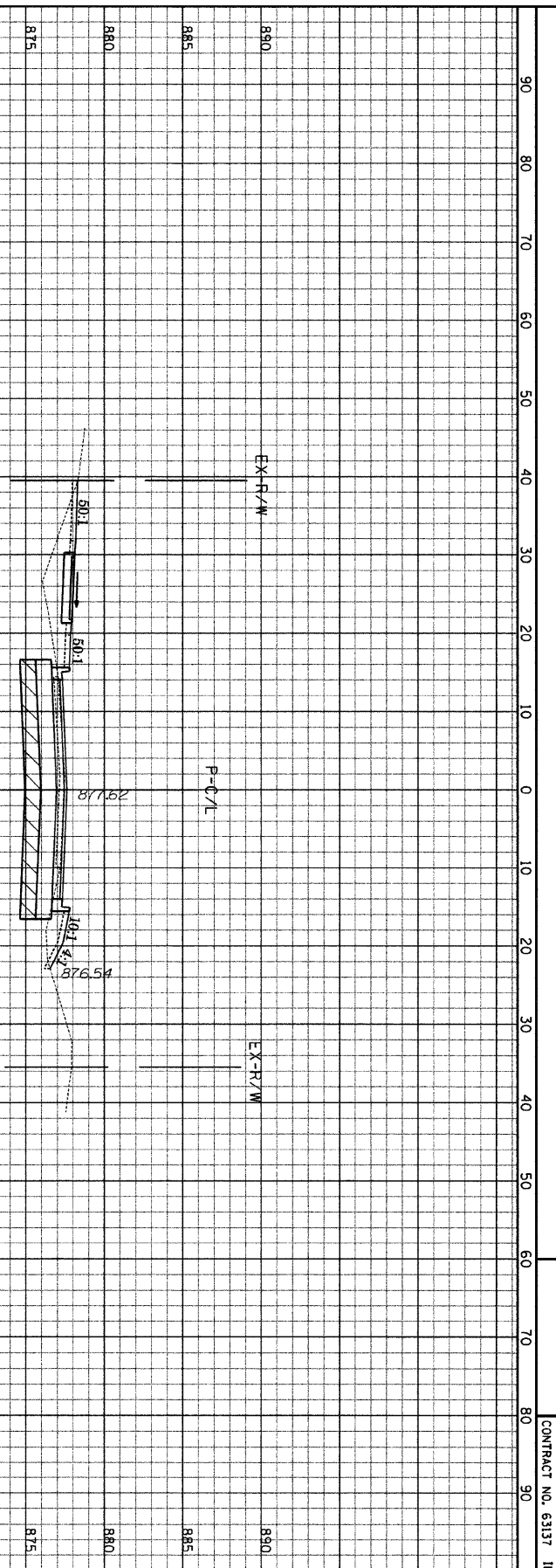


CUT	FILL	CUT	FILL
SF	SF	CY	CY

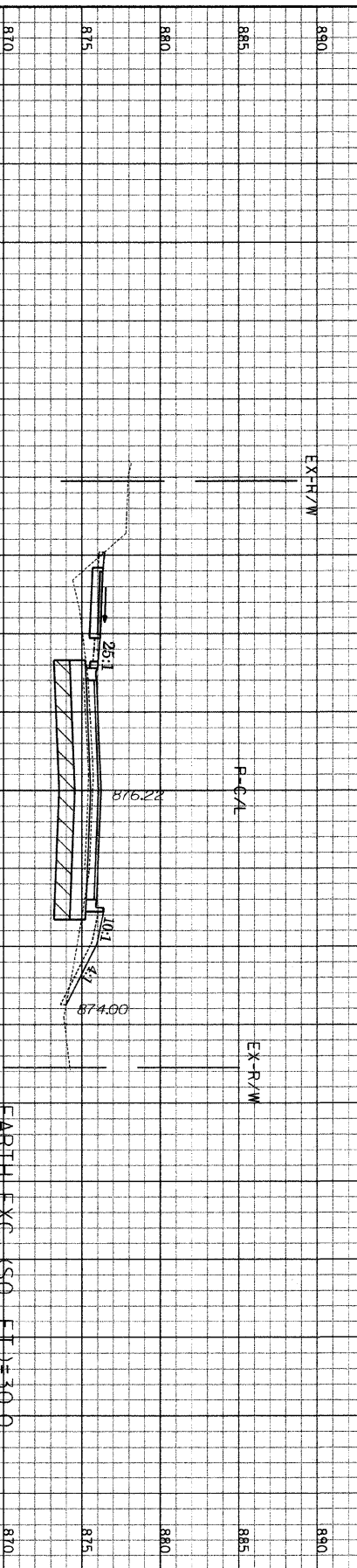
Hanson Road
 Edgewood to Huntington
 Hor. Scale: 1" = 10'
 Vert. Scale: 1" = 5'

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 (312) 399-9116

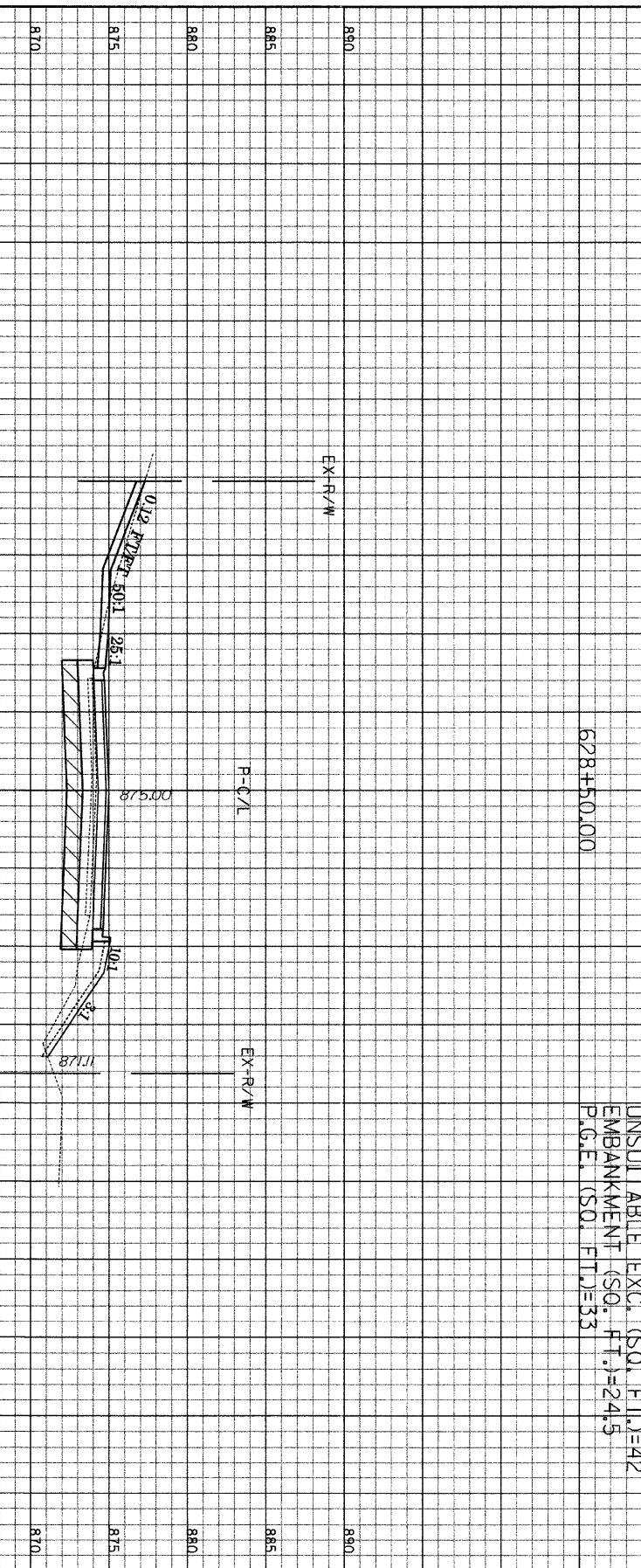
PLAN AREA	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
401	07-00072-00-PW	MOHAWK	80	44
STA. 627+90.78 TO STA. 629+00.00				
CONTRACT NO. 6317 ILLINOIS				
CUT	FILL	CUT	FILL	
SF	SF	CV	CV	



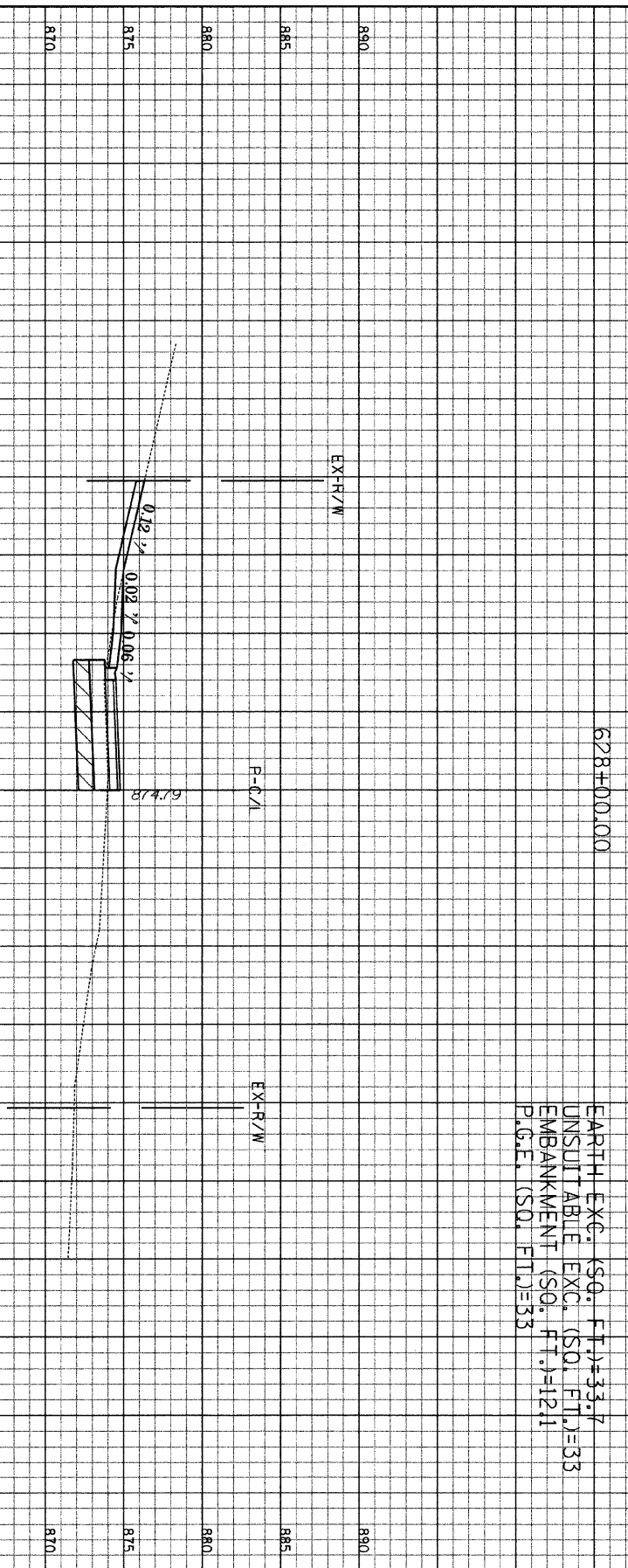
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 UNSUITABLE EXC. (SQ. FT.)=42
 EMBANKMENT (SQ. FT.)=30.6
 P.G.E. (SQ. FT.)=33



EARTH EXC. (SQ. FT.)=30.0
 UNSUITABLE EXC. (SQ. FT.)=42
 EMBANKMENT (SQ. FT.)=24.5
 P.G.E. (SQ. FT.)=33



EARTH EXC. (SQ. FT.)=33.7
 UNSUITABLE EXC. (SQ. FT.)=33
 EMBANKMENT (SQ. FT.)=42.1
 P.G.E. (SQ. FT.)=33



627+90.78

627+90.78

Hanson Road

Edgewood to Huntington

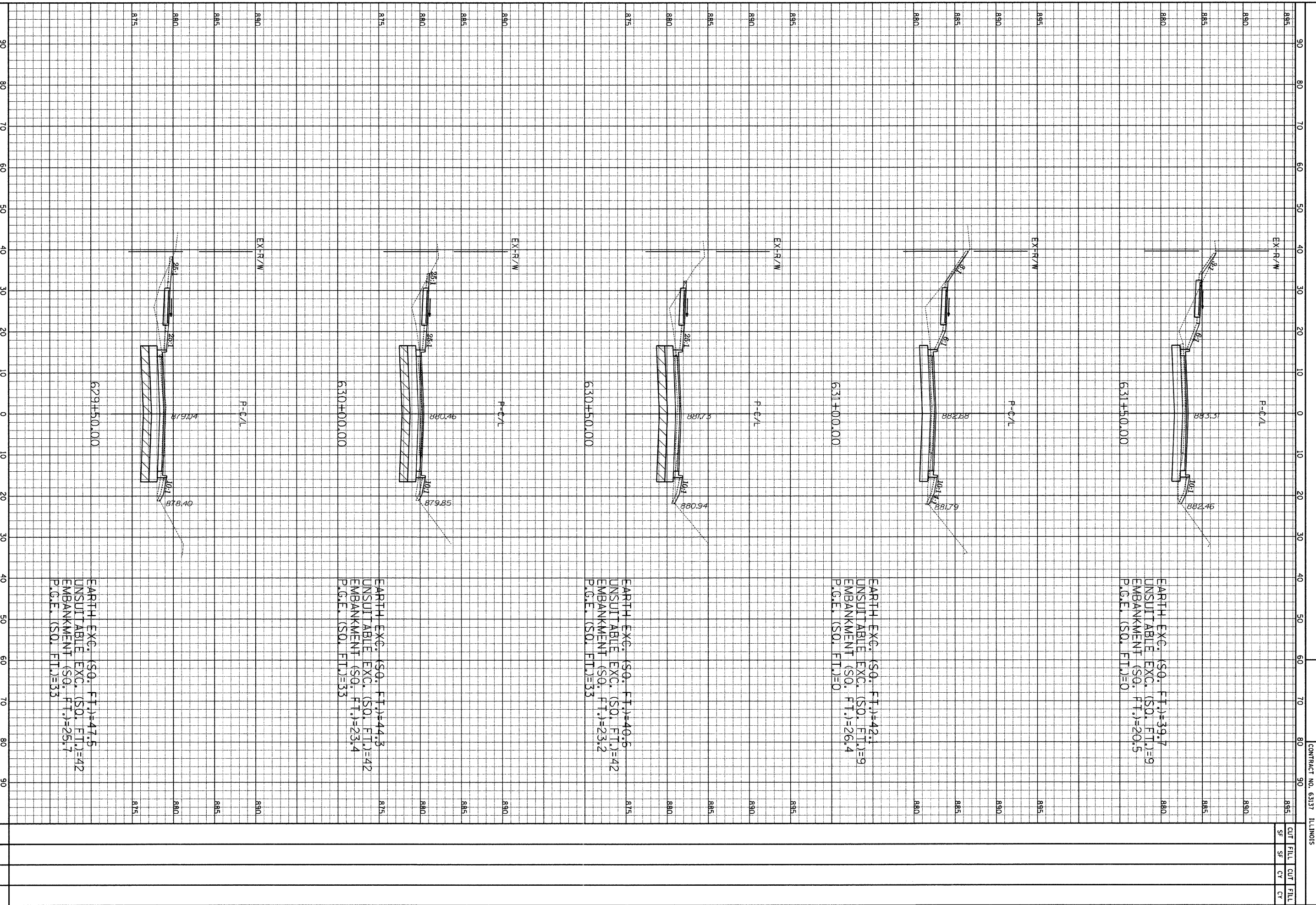
Hor. Scale: 1" = 10'

Vert. Scale: 1" = 5'

GRAF, ANHIL I, SON GEVER & ASSOCIATES, INC.
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 8501 W. Higgins Road, Suite 280
 Chicago, IL 60631 312-399-9412

FILED	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
01	07-00072-00-04W	MONROE	80	50

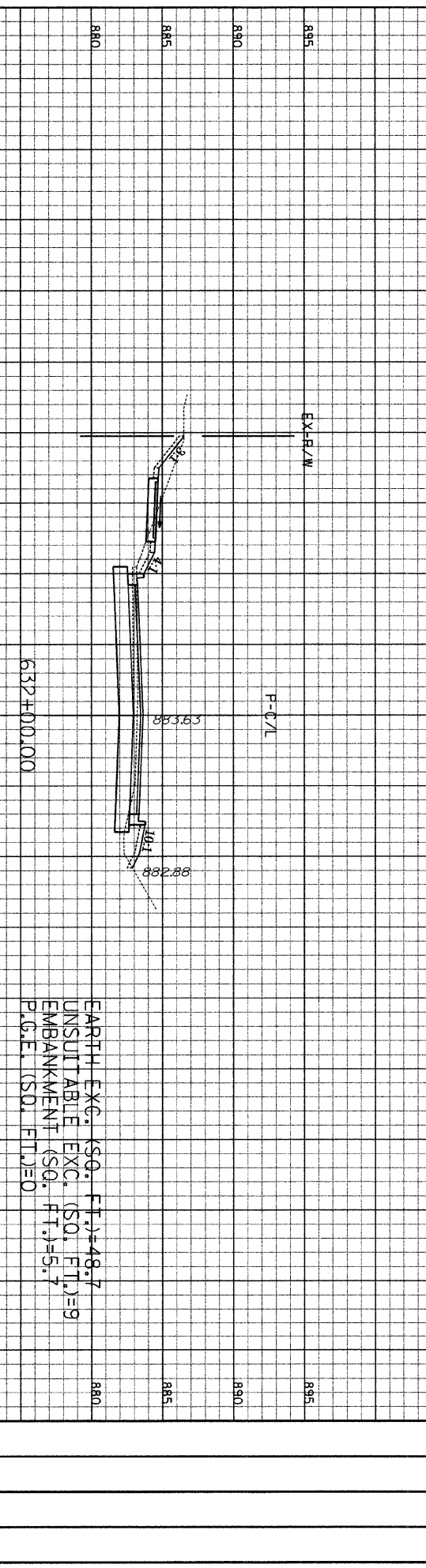
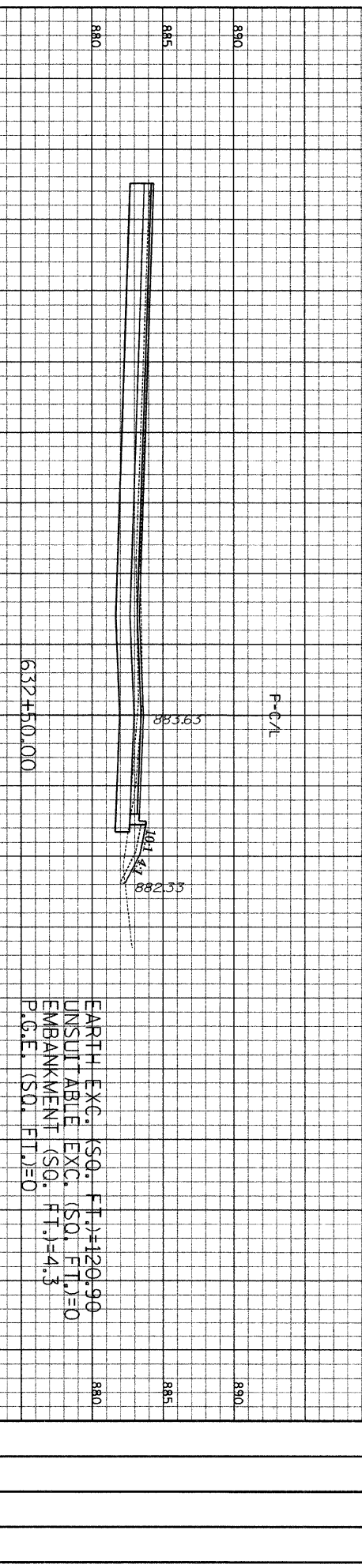
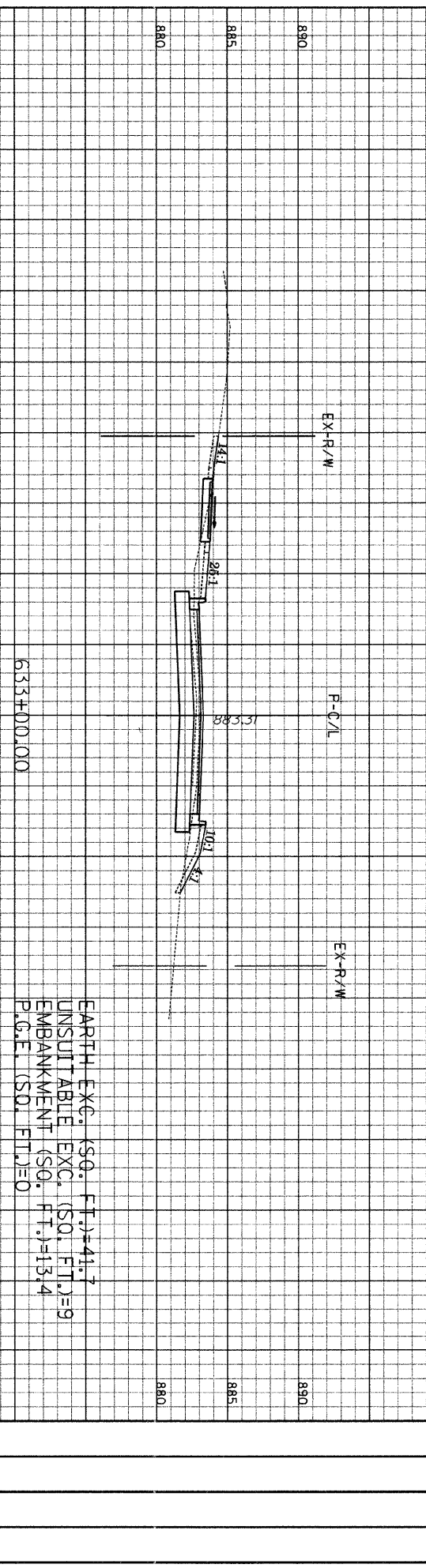
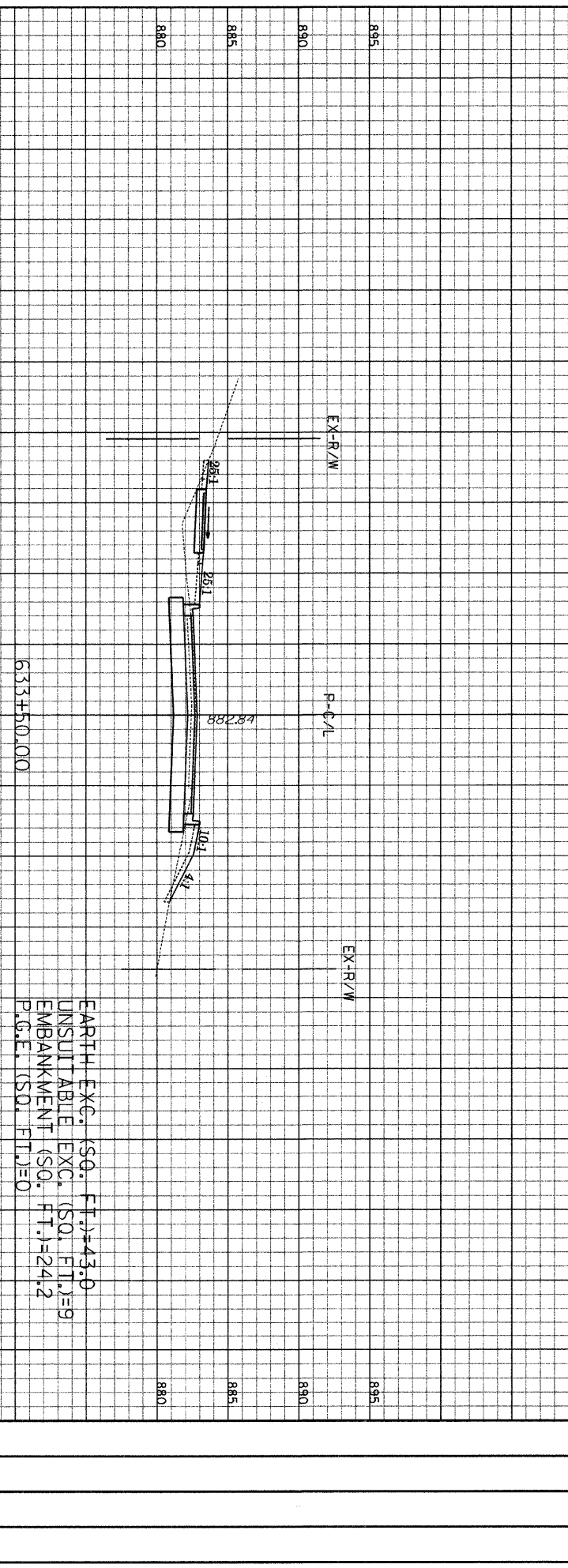
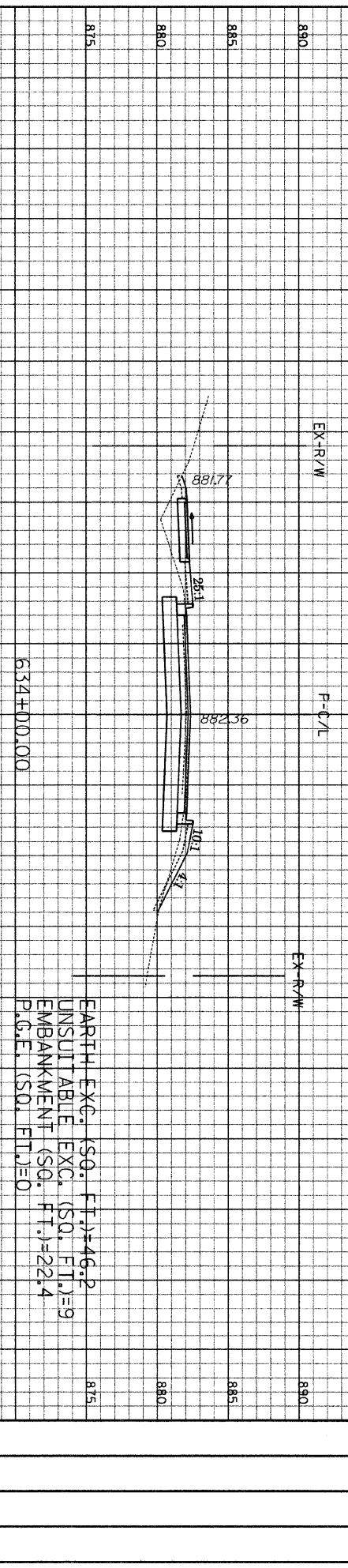
CONTRACT NO. 63137 ILLINOIS
TO STA. 631+50.00



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CONSULTING ENGINEERS AND LAND SURVEYORS
8501 W. Higgins Road, Suite 280
Chicago, Illinois 60631

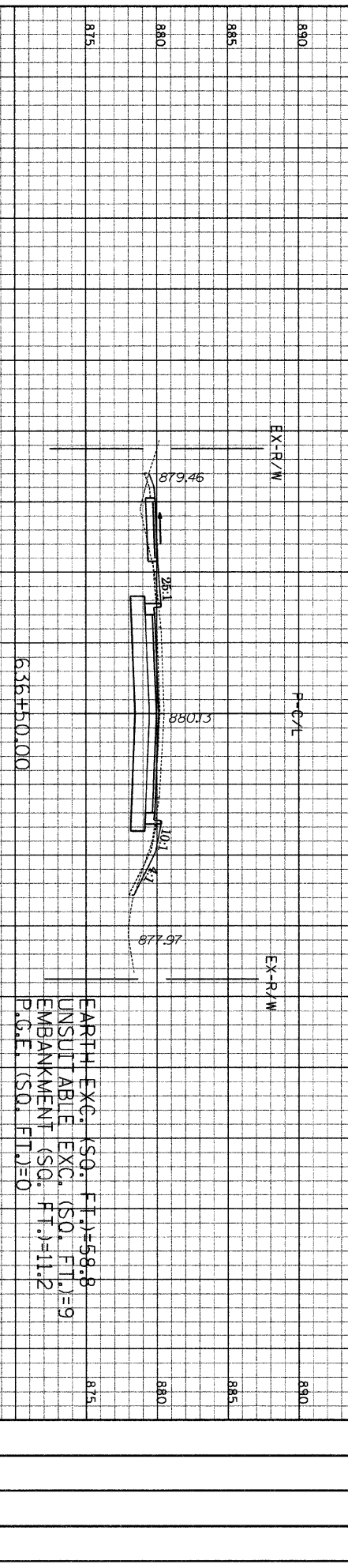
Hanson Road
Edgewood to Huntington
Hor. Scale: 1" = 10'
Vert. Scale: 1" = 5'

PLAN	SECTION	COUNTY	TOTAL SHEETS
801	07-00072-00-PV	MEMPHIS	80
STA. 632+00.00 TO STA. 634+00.00			51
CONTRACT NO. 6317 ILLINOIS			
CUT	FILL	CUT	FILL
SF	SF	CY	CY

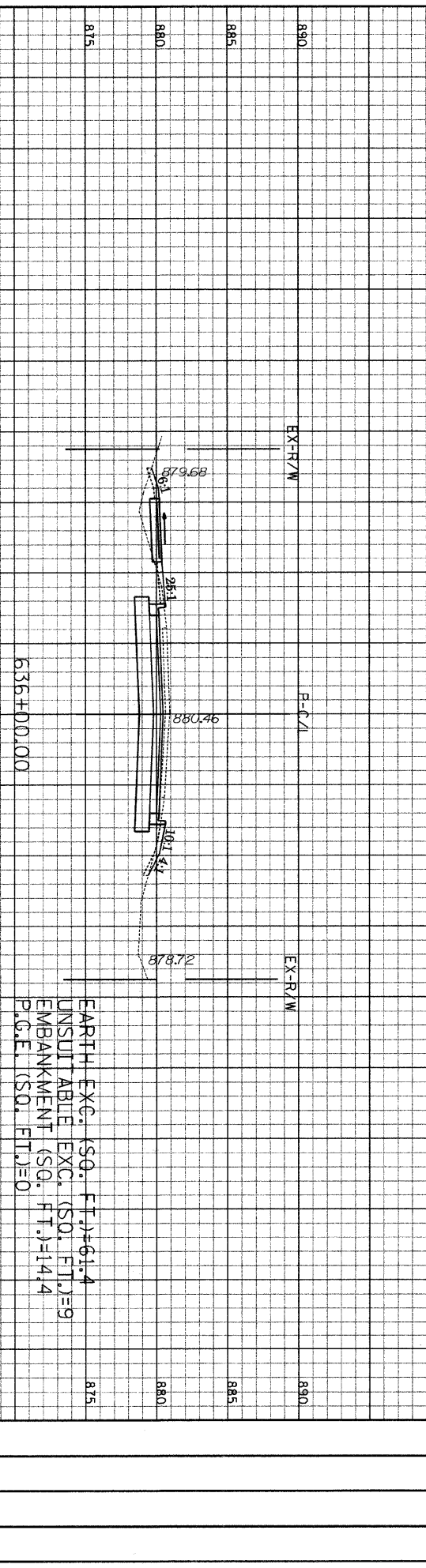


Edgewood to Huntington
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 5'
 GRAFF, ANNA T., SCHUMER & ASSOCIATES, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8501 N. Higgins Road, Suite 200
 Chicago, Illinois 60631
 (312) 353-9118

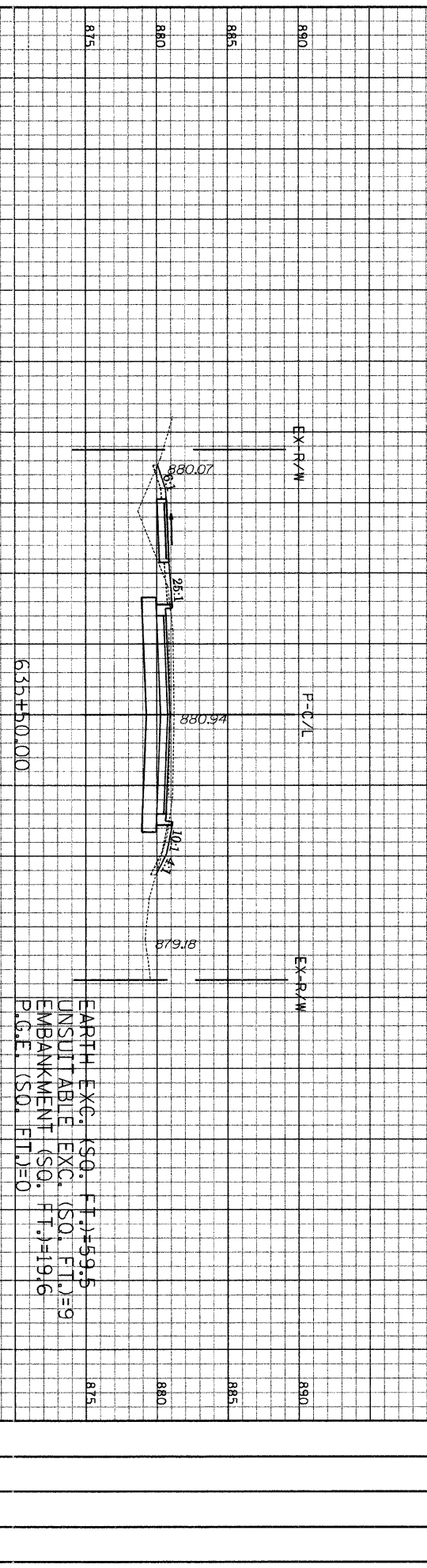
PLAN	SECTION	COUNTY	TOTAL SHEETS
801	07-00072-00-04V	MCHEMRY	80
CONTRACT NO. 63137 ILLINOIS			SHEET NO. 52
STA. 634+50.00 TO STA. 636+50.00			



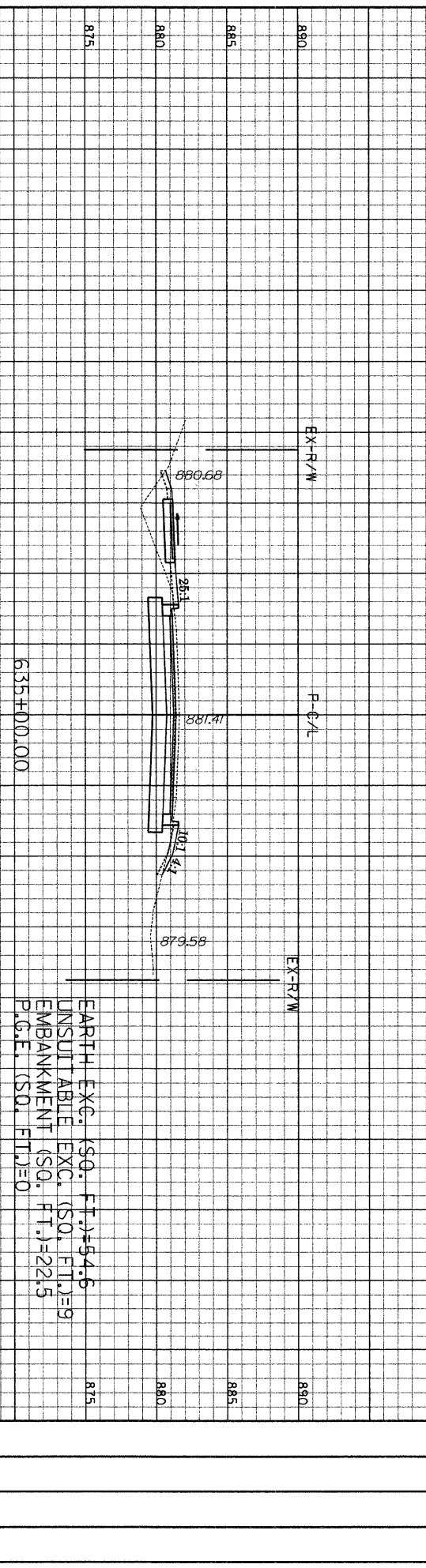
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 EMBANKMENT (SQ. FT.)=11.2
 P.G.E. (SQ. FT.)=0



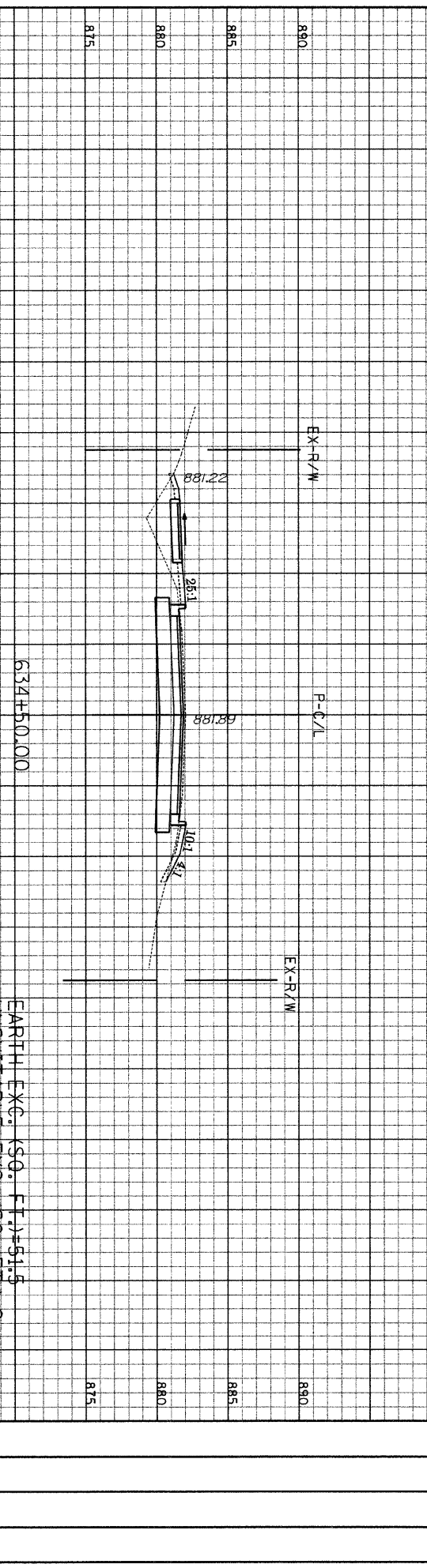
EARTH EXC. (SQ. FT.)=61.4
 UNSUITABLE EXC. (SQ. FT.)=9
 EMBANKMENT (SQ. FT.)=14.4
 P.G.E. (SQ. FT.)=0



EARTH EXC. (SQ. FT.)=59.5
 UNSUITABLE EXC. (SQ. FT.)=9
 EMBANKMENT (SQ. FT.)=19.6
 P.G.E. (SQ. FT.)=0



EARTH EXC. (SQ. FT.)=54.5
 UNSUITABLE EXC. (SQ. FT.)=9
 EMBANKMENT (SQ. FT.)=22.5
 P.G.E. (SQ. FT.)=0

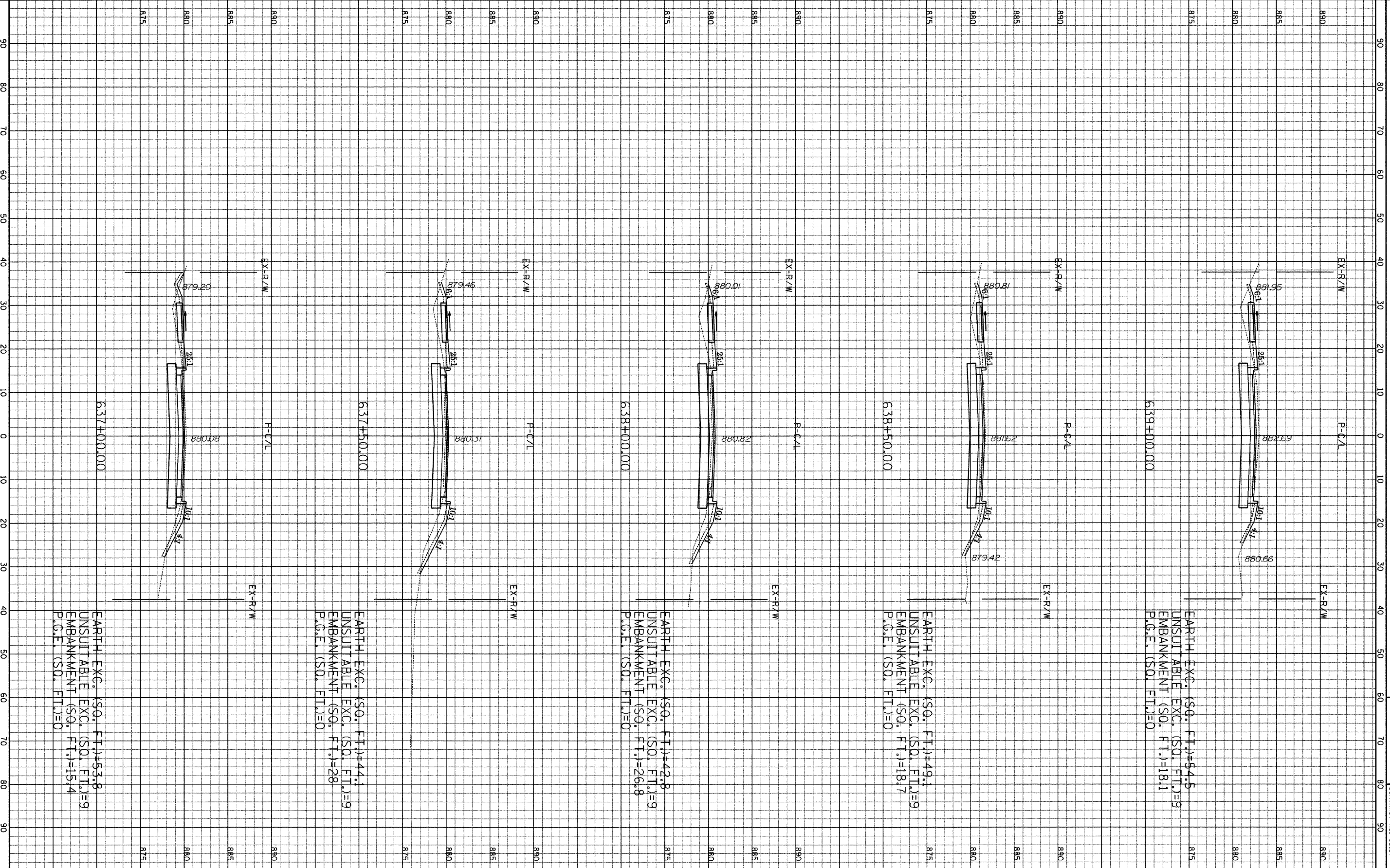


EARTH EXC. (SQ. FT.)=51.5
 UNSUITABLE EXC. (SQ. FT.)=9
 EMBANKMENT (SQ. FT.)=24.1
 P.G.E. (SQ. FT.)=0

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 (312) 353-9118

Edgewood to Huntington
 HORIZ. Scale: 1" = 10'
 VERT. Scale: 1" = 5'

PLAN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
401	01-00072-00-PP	MOCKERY	40	53
CONTRACT NO. 6317		ILLINOIS		
STA. 637+00.00		TO STA. 639+00.00		



EARTH EXC. (SQ. FT.)=54.5
 UNSUITABLE EXC. (SQ. FT.)=9
 EMBANKMENT (SQ. FT.)=18.1
 P.C.E. (SQ. FT.)=0

EARTH EXC. (SQ. FT.)=49.1
 UNSUITABLE EXC. (SQ. FT.)=9
 EMBANKMENT (SQ. FT.)=18.7
 P.C.E. (SQ. FT.)=0

EARTH EXC. (SQ. FT.)=42.8
 UNSUITABLE EXC. (SQ. FT.)=9
 EMBANKMENT (SQ. FT.)=26.8
 P.C.E. (SQ. FT.)=0

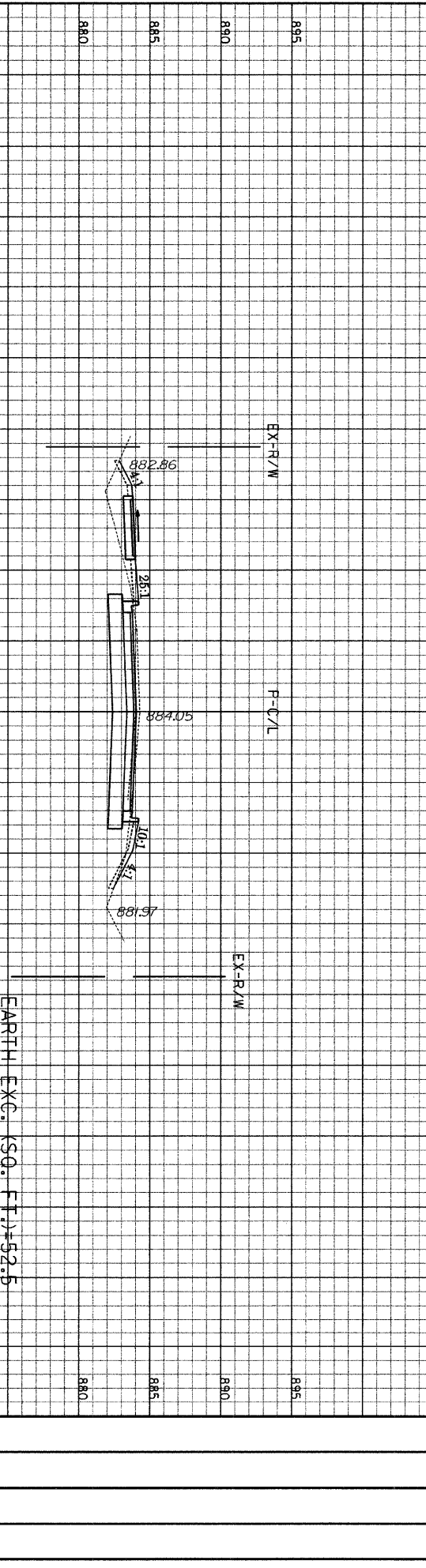
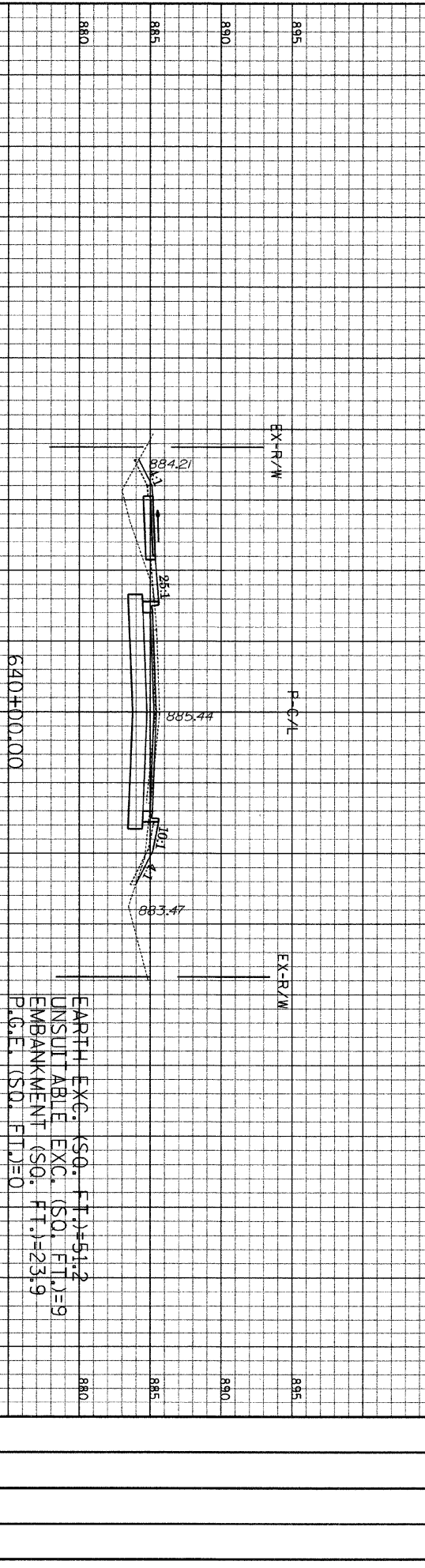
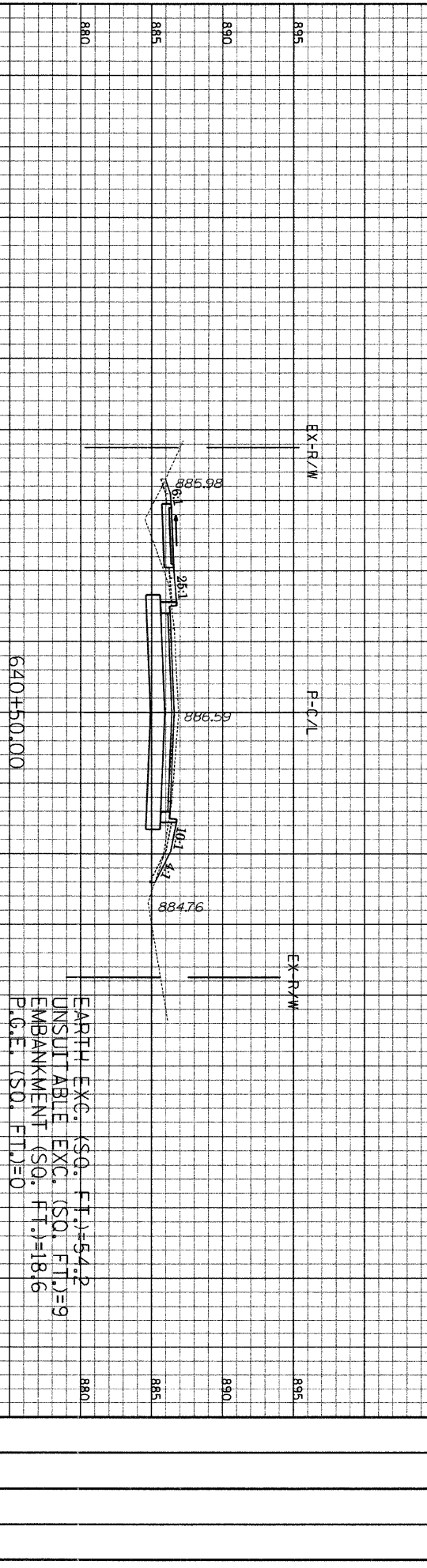
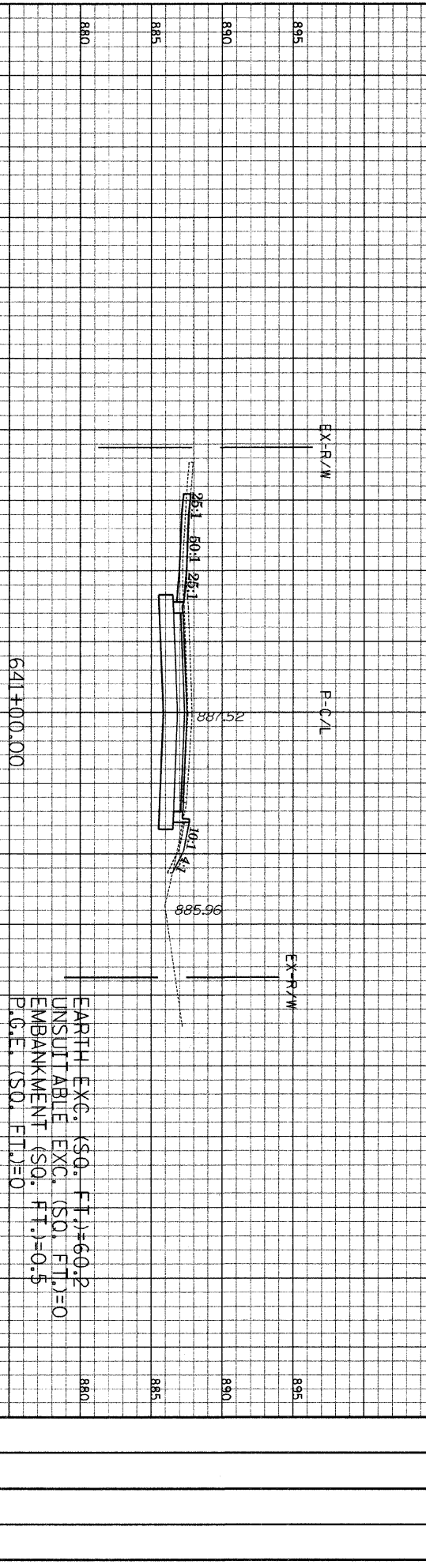
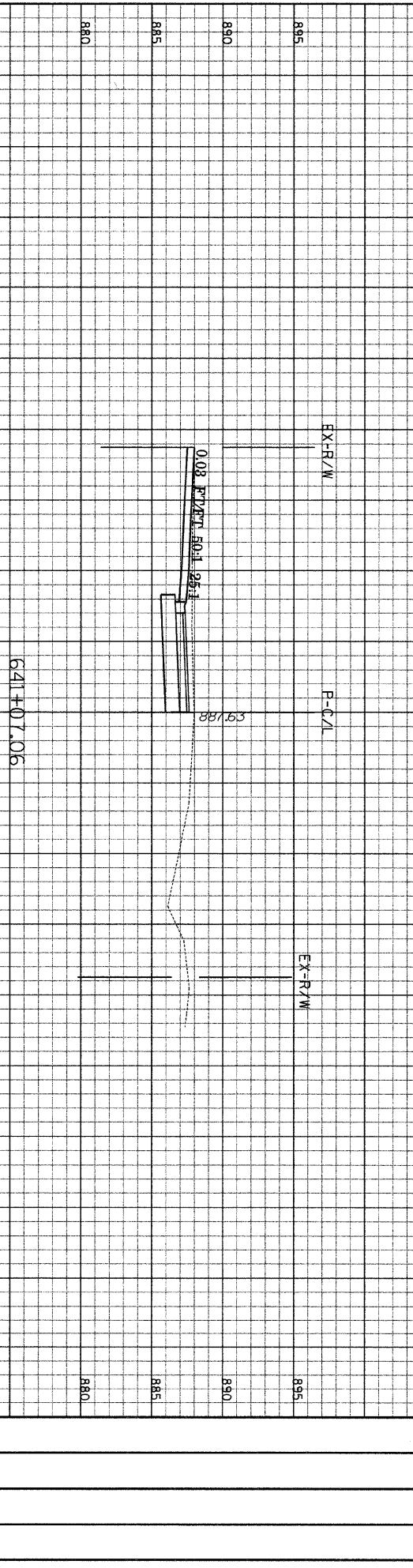
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 UNSUITABLE EXC. (SQ. FT.)=9
 EMBANKMENT (SQ. FT.)=28
 P.C.E. (SQ. FT.)=0

EARTH EXC. (SQ. FT.)=53.8
 UNSUITABLE EXC. (SQ. FT.)=9
 EMBANKMENT (SQ. FT.)=15.4
 P.C.E. (SQ. FT.)=0

Hanson Road
 Edgewood to Huntington
 HOR. Scale: 1" = 10'
 Vert. Scale: 1" = 5'

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 312.399.9116

FINAL SHEET NO. 01-00073-00-04-W	COUNTY MONROE	TOTAL SHEETS 40	SHEET NO. 54
CONTRACT NO. 63137 ILLINOIS		TO STA. 641+07.06	



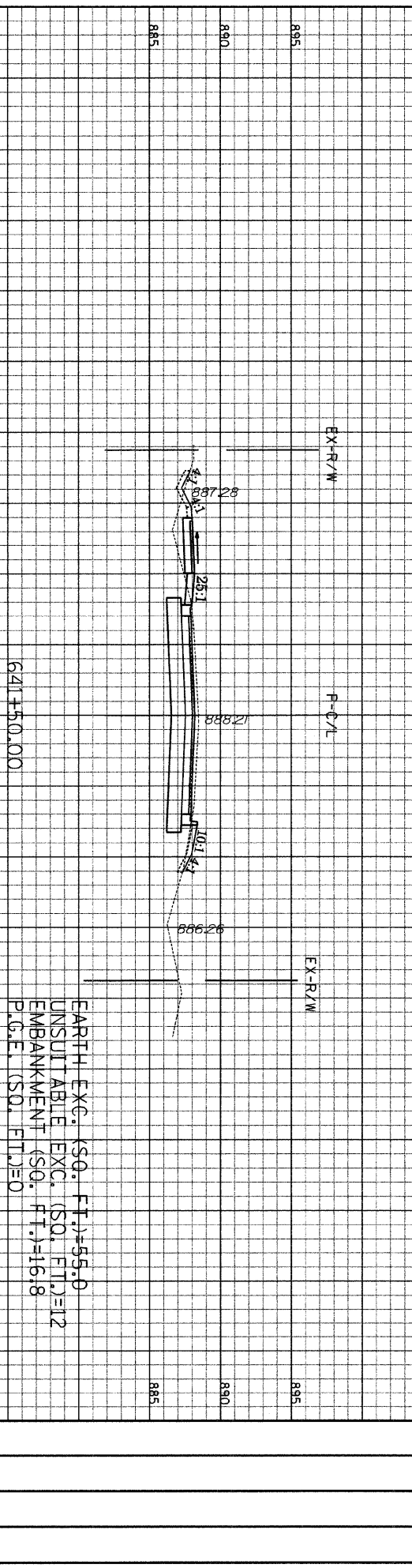
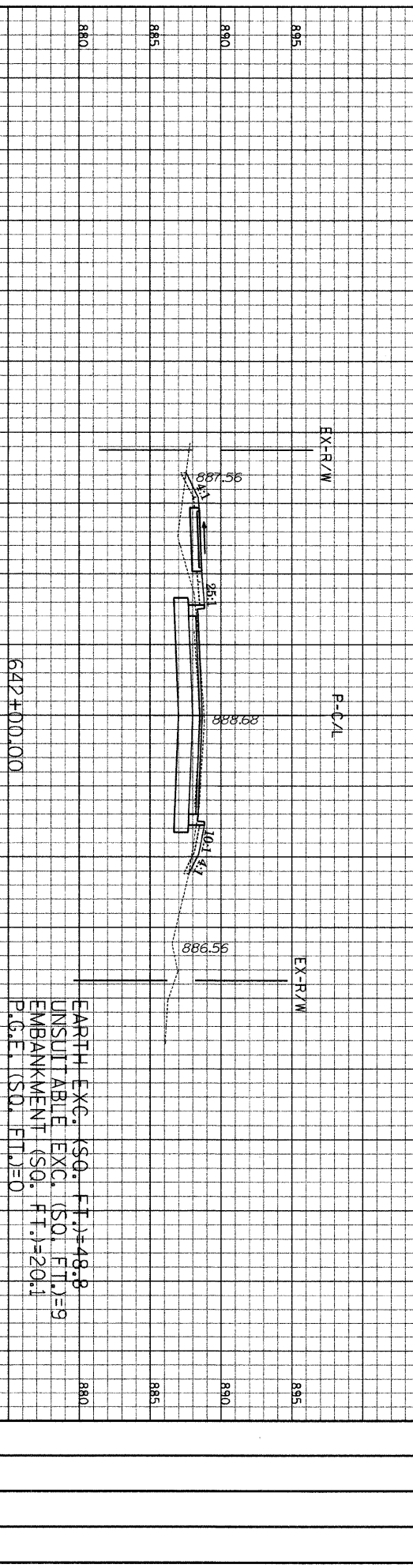
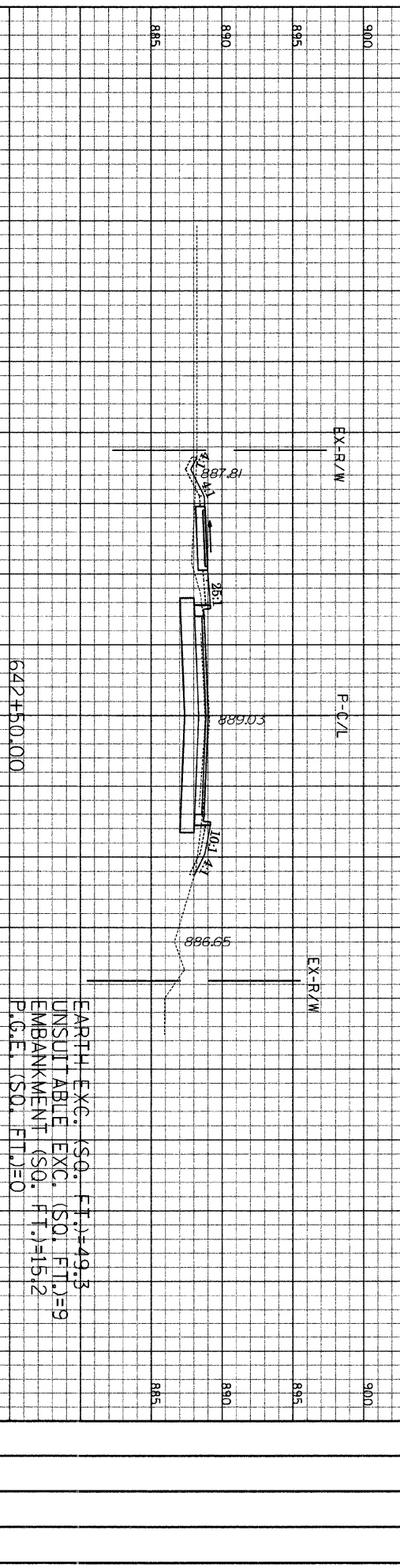
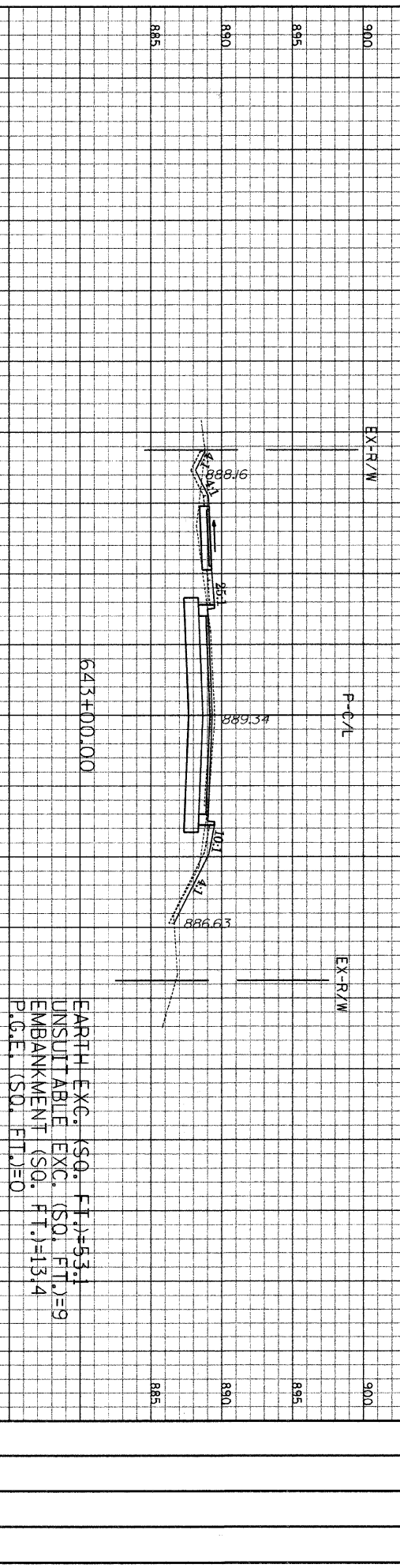
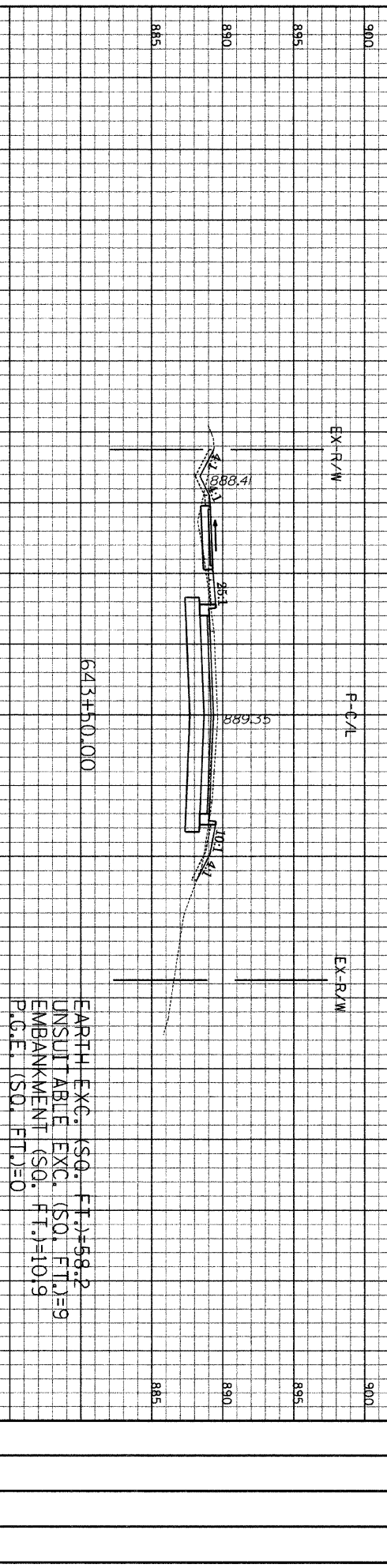
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 UNSUITABLE EXC. (SQ. FT.)=9
 EMBANKMENT (SQ. FT.)=21.6
 P.G.E. (SQ. FT.)=0

EARTH EXC. (SQ. FT.)=51.2
 UNSUITABLE EXC. (SQ. FT.)=9
 EMBANKMENT (SQ. FT.)=23.9
 P.G.E. (SQ. FT.)=0

EARTH EXC. (SQ. FT.)=54.2
 UNSUITABLE EXC. (SQ. FT.)=9
 EMBANKMENT (SQ. FT.)=18.6
 P.G.E. (SQ. FT.)=0

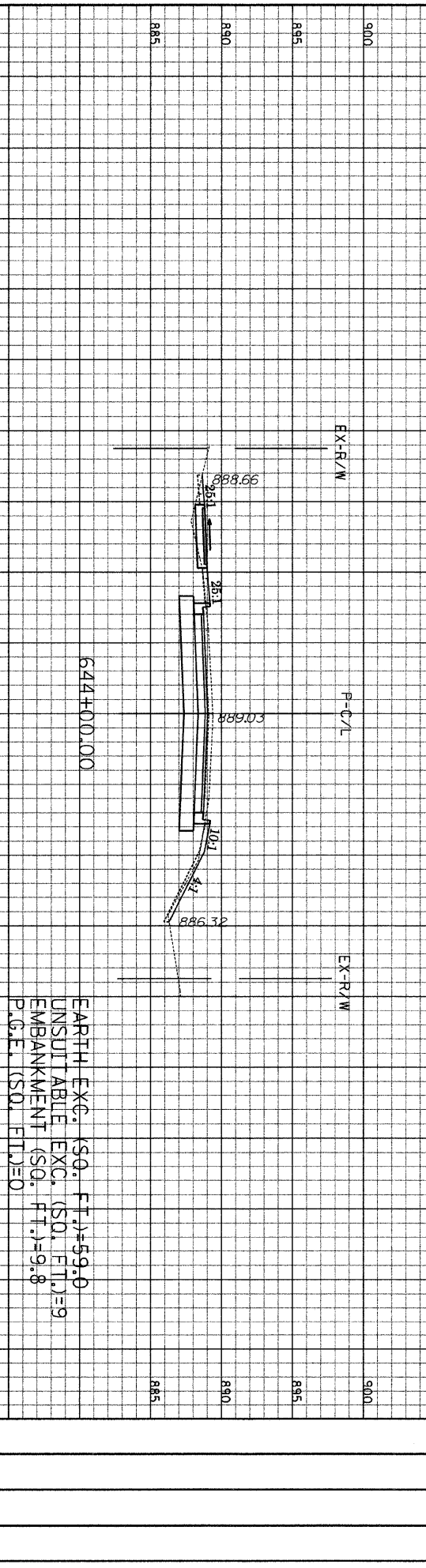
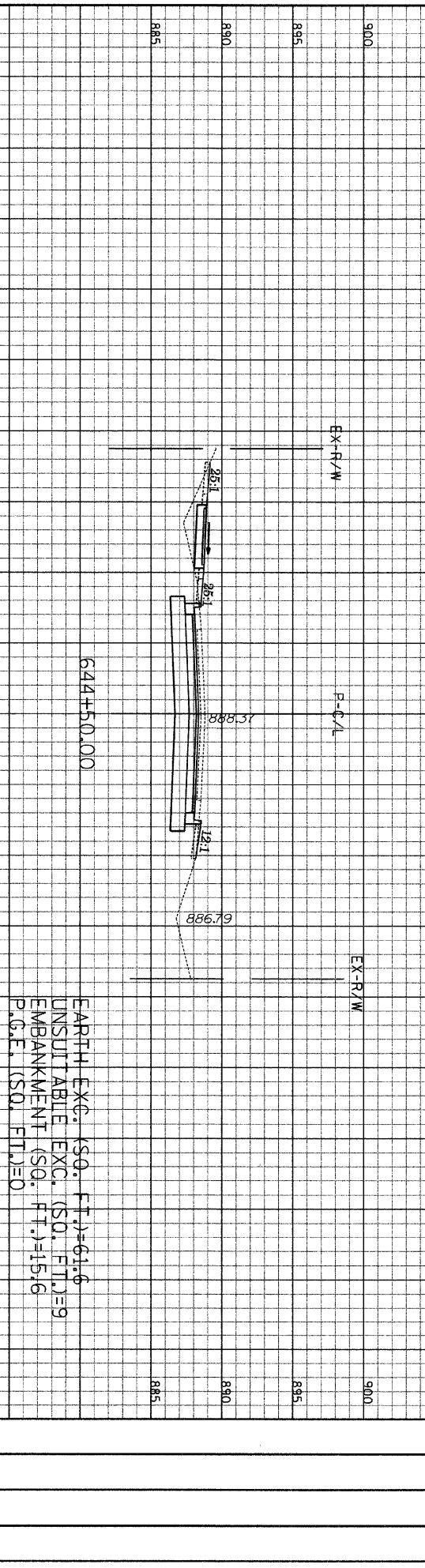
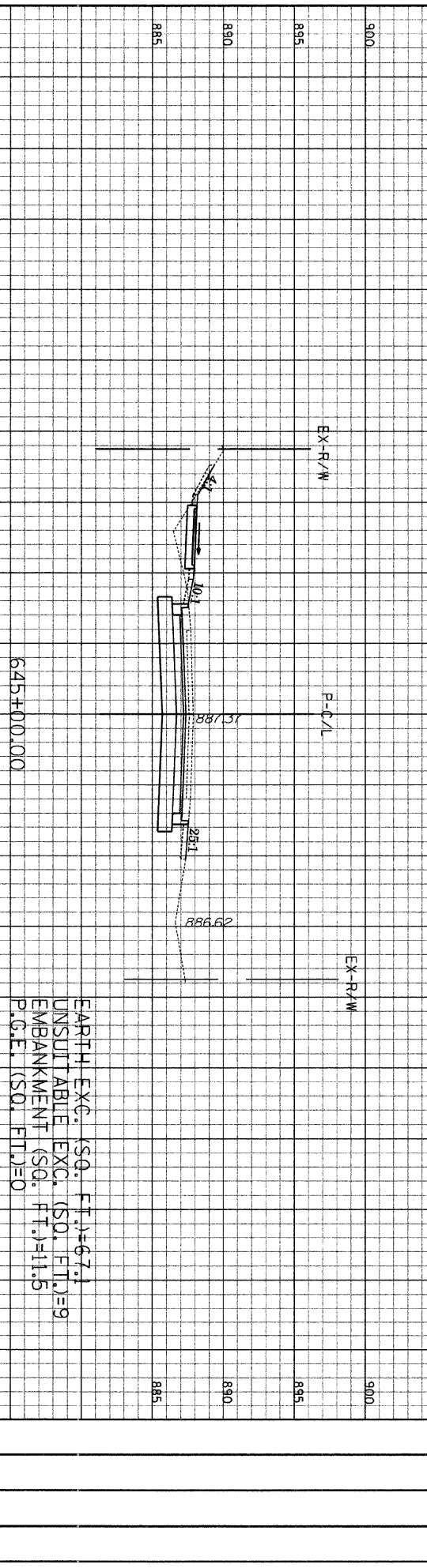
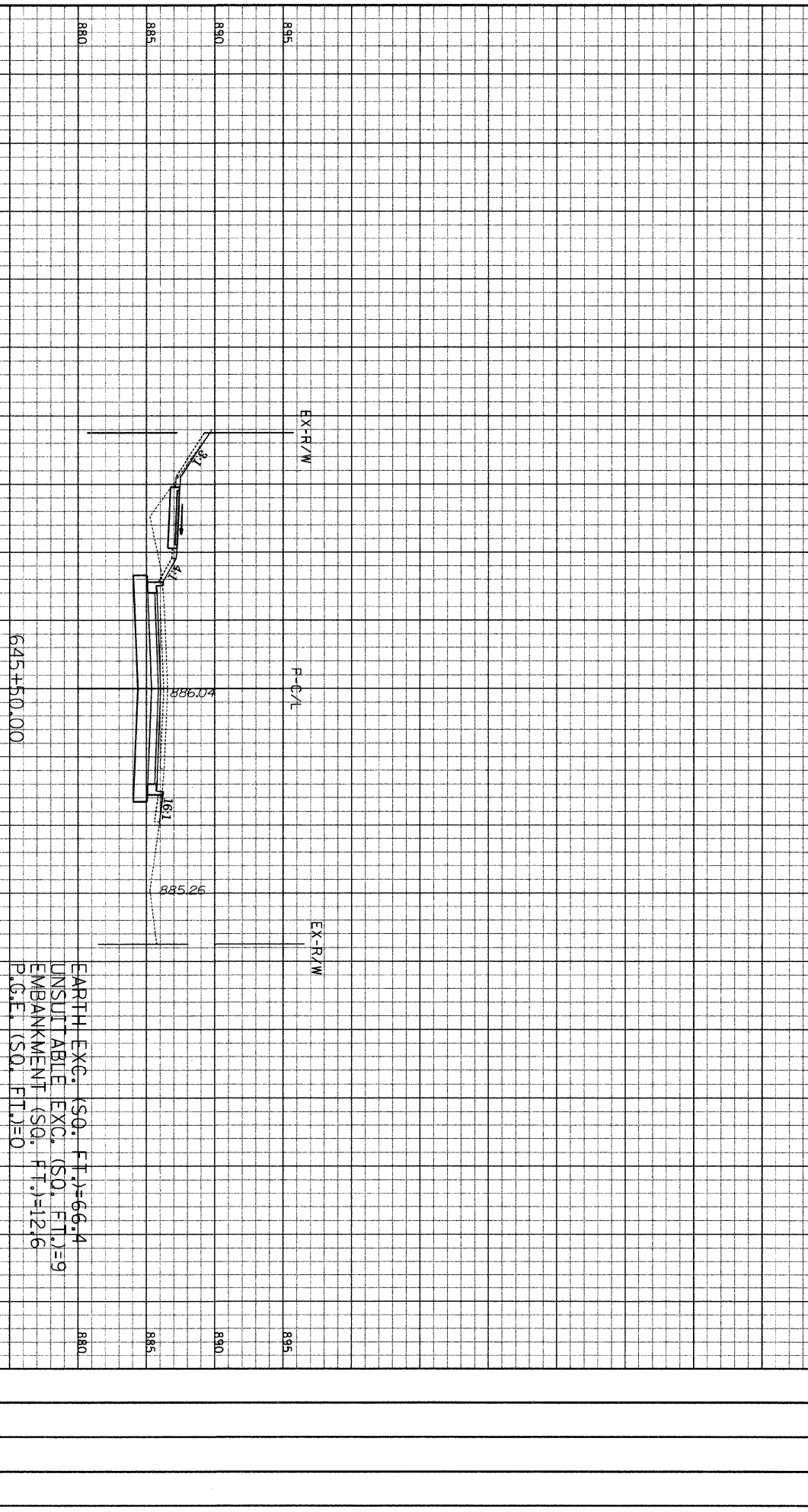
EARTH EXC. (SQ. FT.)=60.2
 UNSUITABLE EXC. (SQ. FT.)=0
 EMBANKMENT (SQ. FT.)=0.5
 P.G.E. (SQ. FT.)=0

890	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90								
895	890	885	880	895	890	885	880	895	890	885	880	895	890	885	880	895	890	885								
<p> CONTRACT NO. 63137 ILLINOIS STA. 641+50.00 TO STA. 643+50.00 COUNTY MOHAWK SECTION 4011 TOTAL SHEETS 80 SHEET NO. 55 </p>																										
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CUT	FILL	CUT	FILL																							
SF	SF	CY	CY																							



Edgewood to Huntington
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 5'
 GRAFF, ANHALT, SCHUMER & ASSOCIATES, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8501 N. Higgins Road, Suite 280
 Chicago, IL 60631
 (773) 399-9112

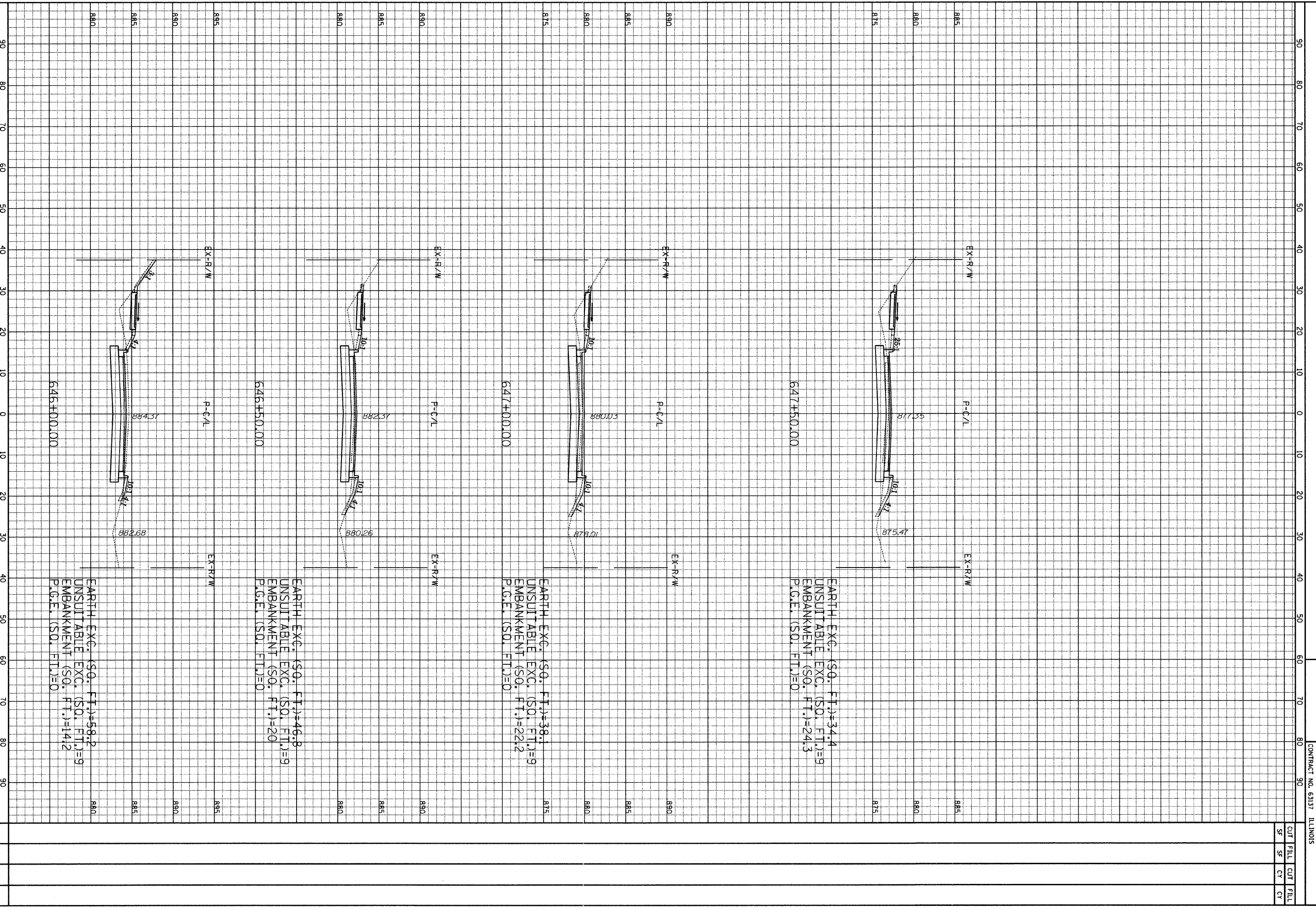
PLAN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	07-00072-00-49	MONROE	80	56
CONTRACT NO. 6317 ILLINOIS		STA. 644+00.00 TO STA. 645+50.00		
CUT	FILL	CUT	FILL	
SF	SF	CY	CY	



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 CONSULTING ENGINEERS AND LAND SURVEYORS
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 Chicago, Illinois 60631
 Phone: (312) 399-9112

Hanson Road
 Edgewood to Huntington
 HOR. Scale: 1" = 10'
 VERT. Scale: 1" = 5'

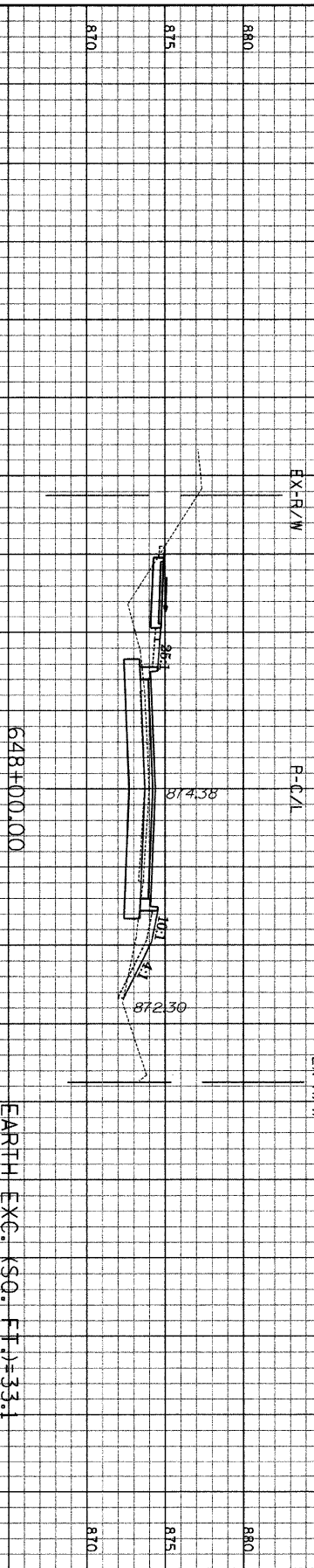
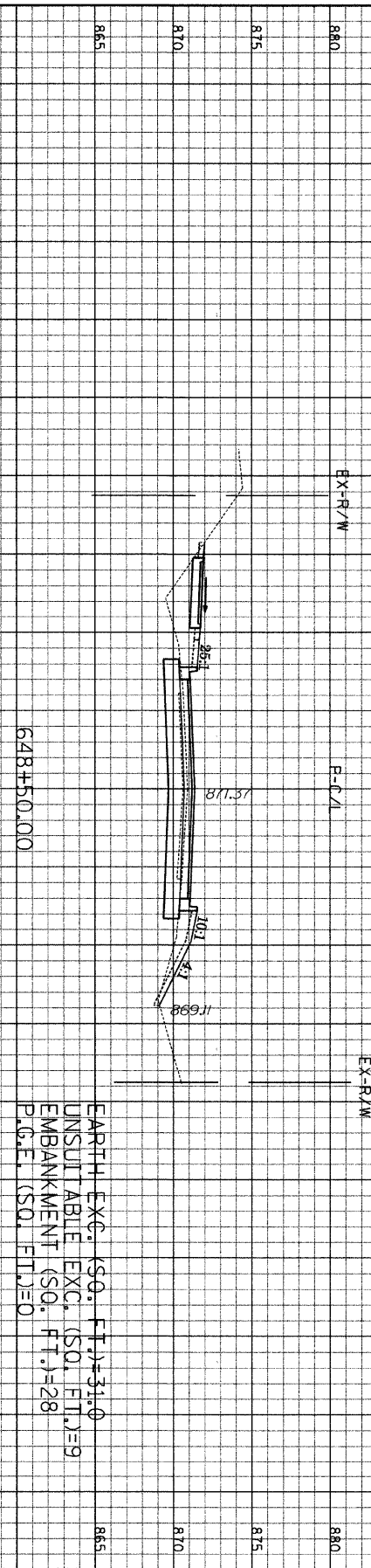
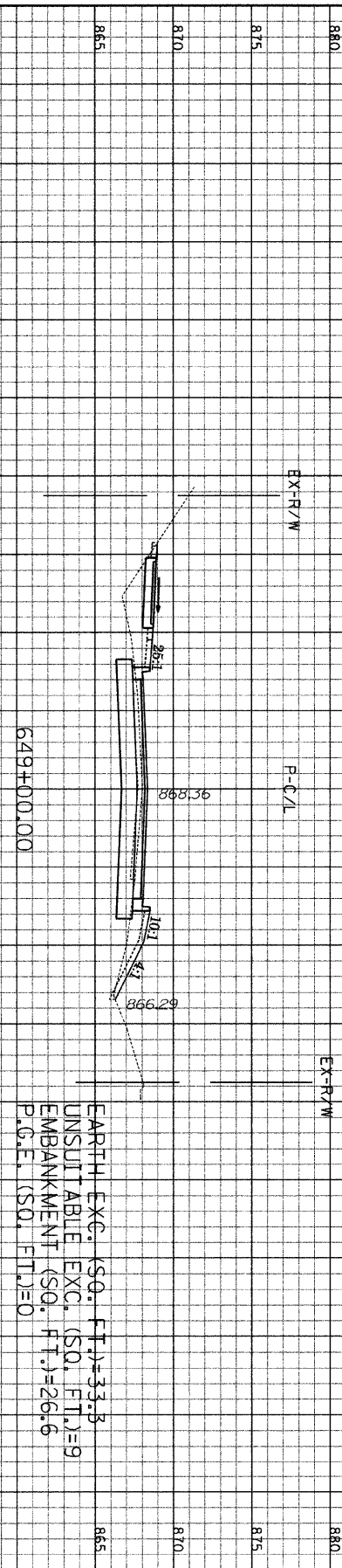
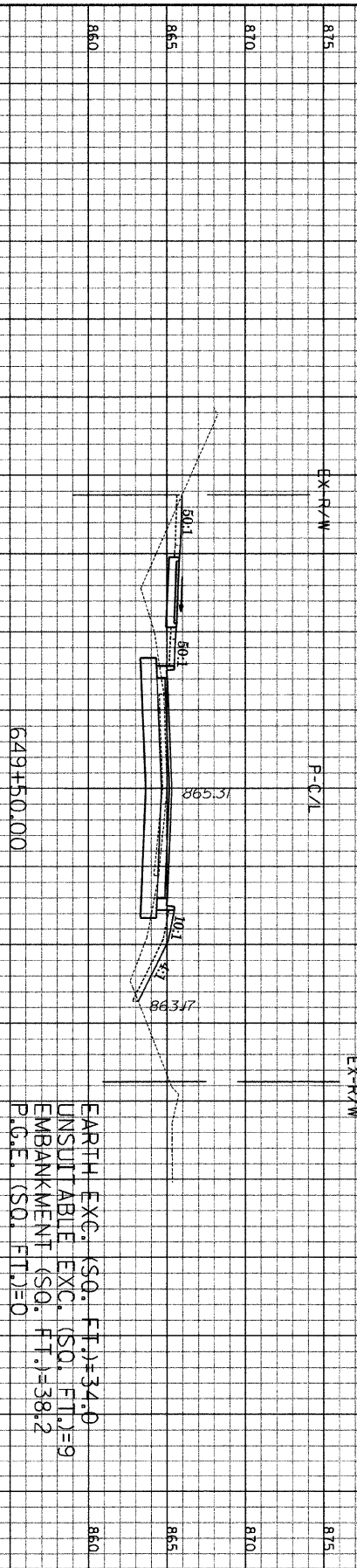
PLAN FILE NO.1	SECTION 07-0007-00-PV	COUNTY MCKEAN	TOTAL SHEETS 80	SHEET NO. 57
CONTRACT NO. 63137		ILLINOIS		
STA. 646+00.00		TO STA. 647+50.00		



GRIFF, ANHULT, SOHLGEMER & ASSOCIATES, INC.
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 Chicago, Illinois 60631
 (312) 399-9414

HANSON ROAD
 Edgewood to Huntington
 HOR. Scale: 1" = 10'
 VERT. Scale: 1" = 5'

PLAN RTE NO.1	SECTION 07-00073-00-RV	COUNTY MONROE	TOTAL SHEETS 80	SHEET NO. 58																			
CONTRACT NO. 63137 ILLINOIS			STA. 648+00.00 TO STA. 649+50.00																				
90	80	70	60	50	40	30	20	10	0	10	20	30	40	50	60	70	80	90	CUT	FILL	CUT	FILL	
																				SF	SF	CY	CY



Hanson Road
Edgewood to Huntington

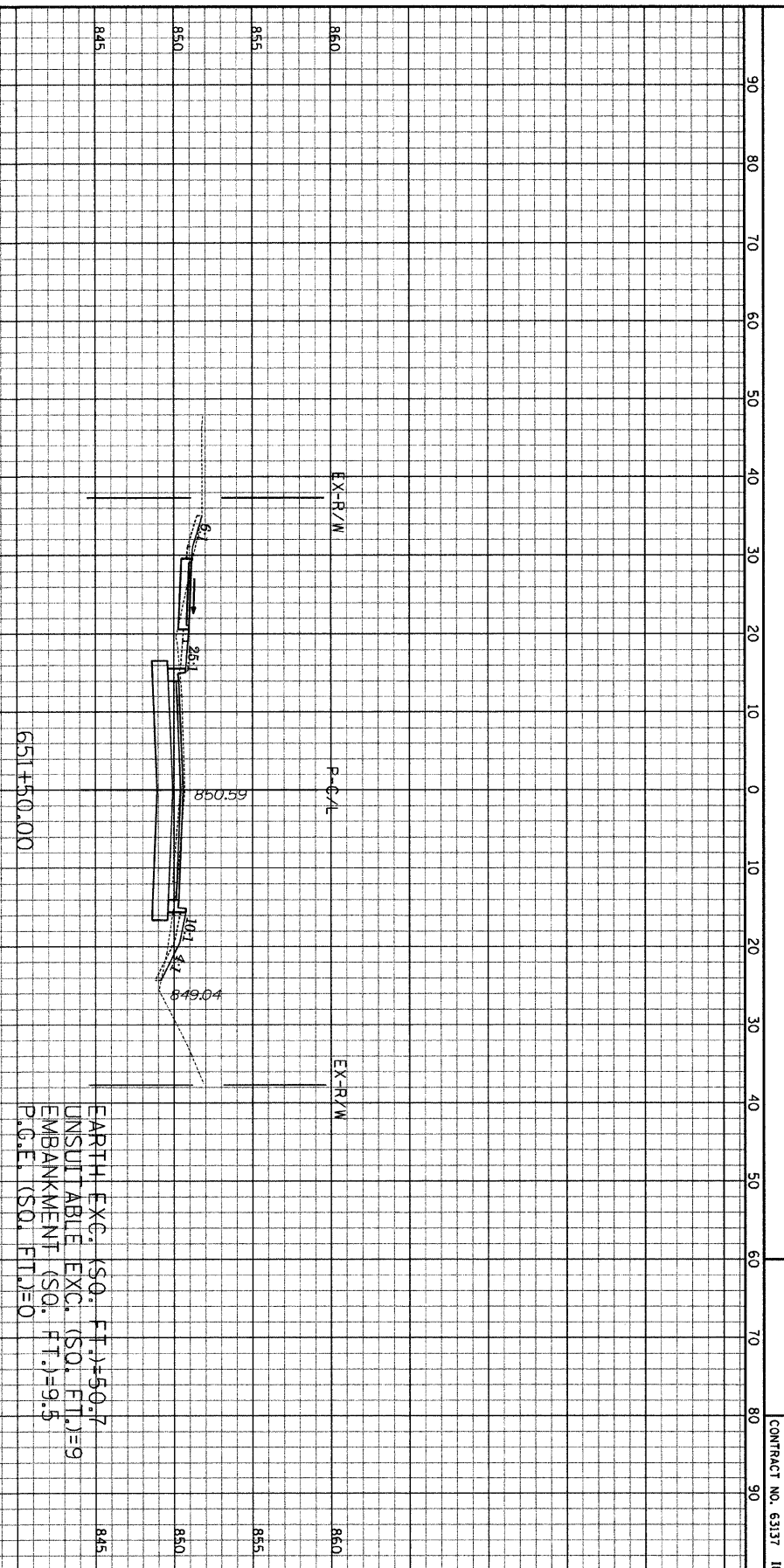
Hor. Scale: 1" = 10'
Vert. Scale: 1" = 5'

REF. ANNA I. SPRINGER & ASSOCIATES, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
8501 W. Higgins Road, Suite 280
Chicago, IL 60631
131 390-912

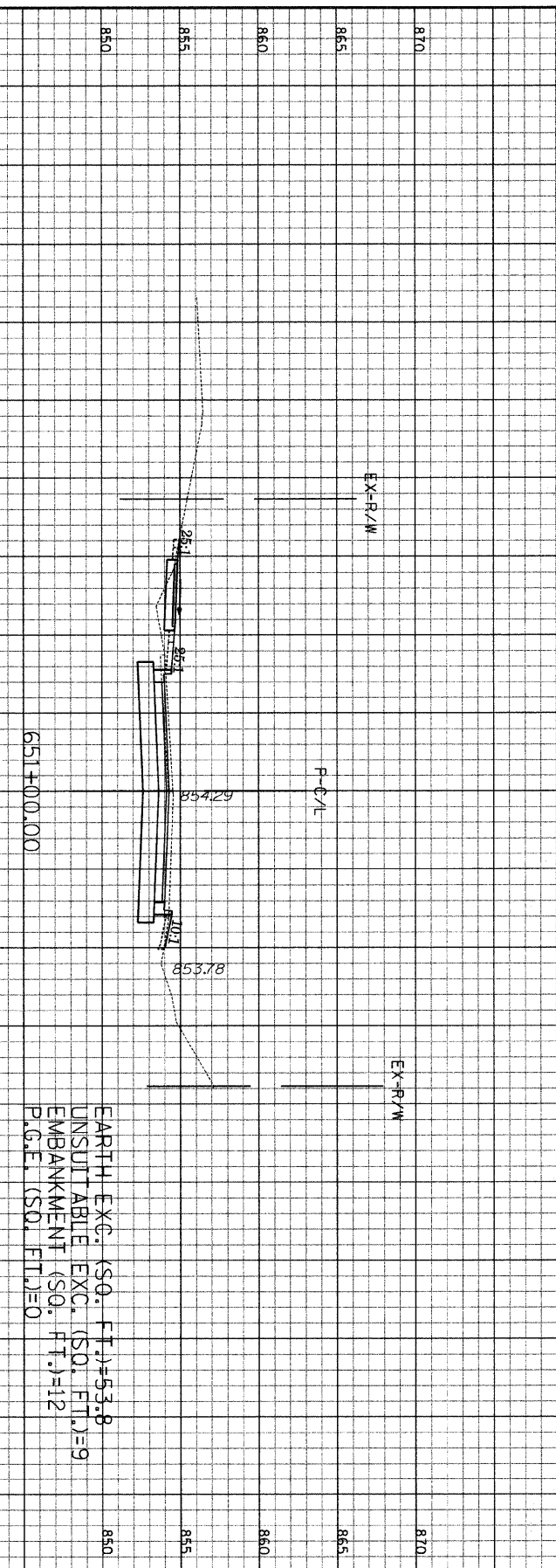
FILE	SECTION	COUNTY	TOTAL
DATE			SHEETS
001	07-00072-00-00-PV	MOHAWK	80
			59

CONTRACT NO. 63137 ILLINOIS
 STA. 650+00.00 TO STA. 651+50.00

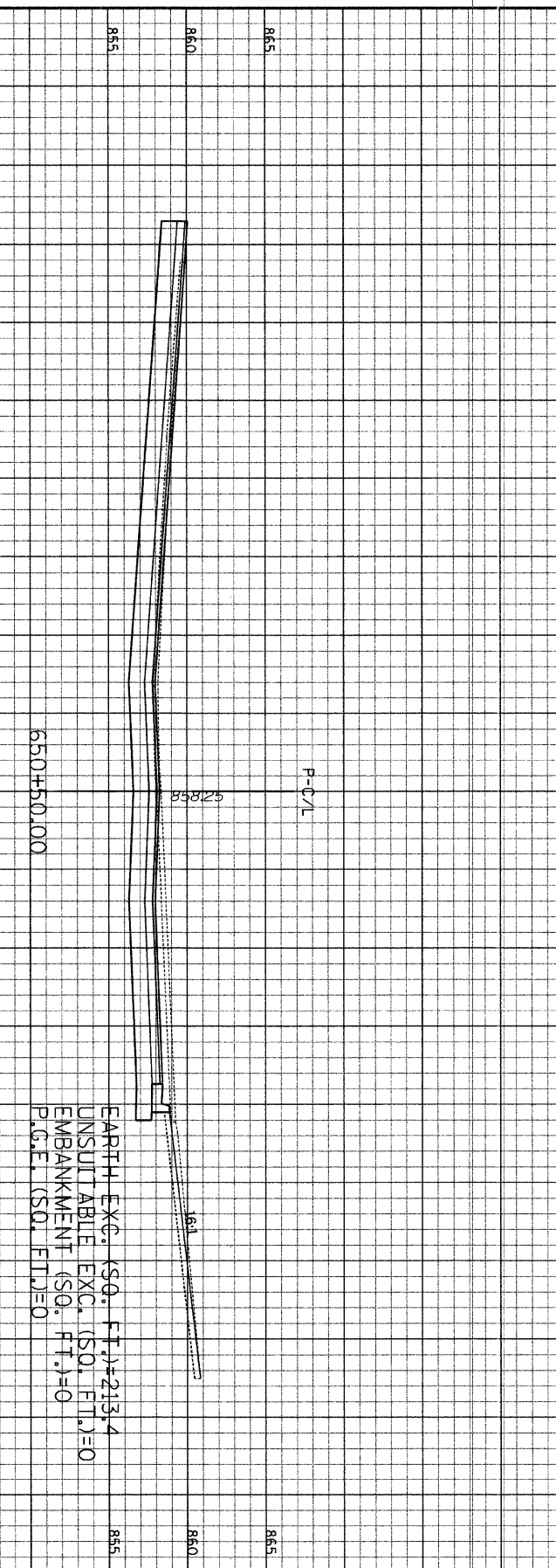
CUT	FILL	CUT	FILL
SF	SF	CY	CY



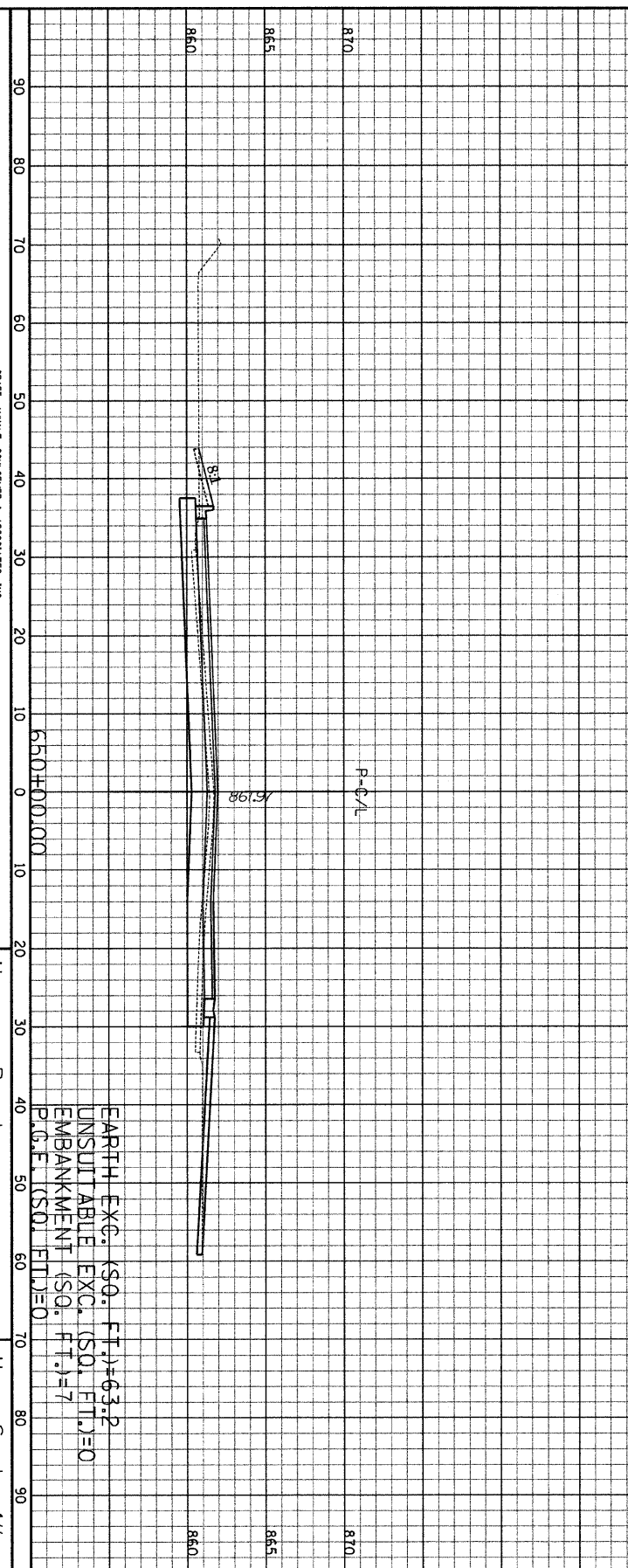
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 UNSUITABLE EXC. (SQ. FT.)=9
 EMBANKMENT (SQ. FT.)=9.5
 P.C.E. (SQ. FT.)=0



EARTH EXC. (SQ. FT.)=53.8
 UNSUITABLE EXC. (SQ. FT.)=9
 EMBANKMENT (SQ. FT.)=12
 P.C.E. (SQ. FT.)=0



EARTH EXC. (SQ. FT.)=213.4
 UNSUITABLE EXC. (SQ. FT.)=0
 EMBANKMENT (SQ. FT.)=0
 P.C.E. (SQ. FT.)=0

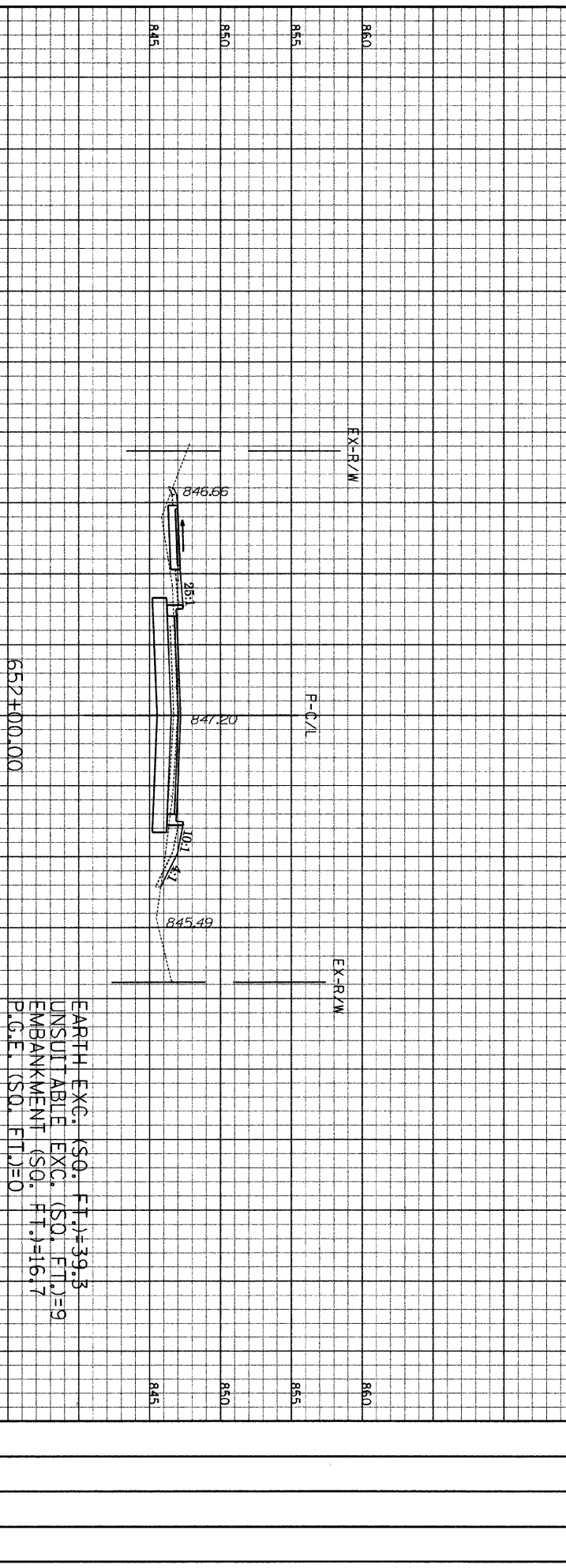
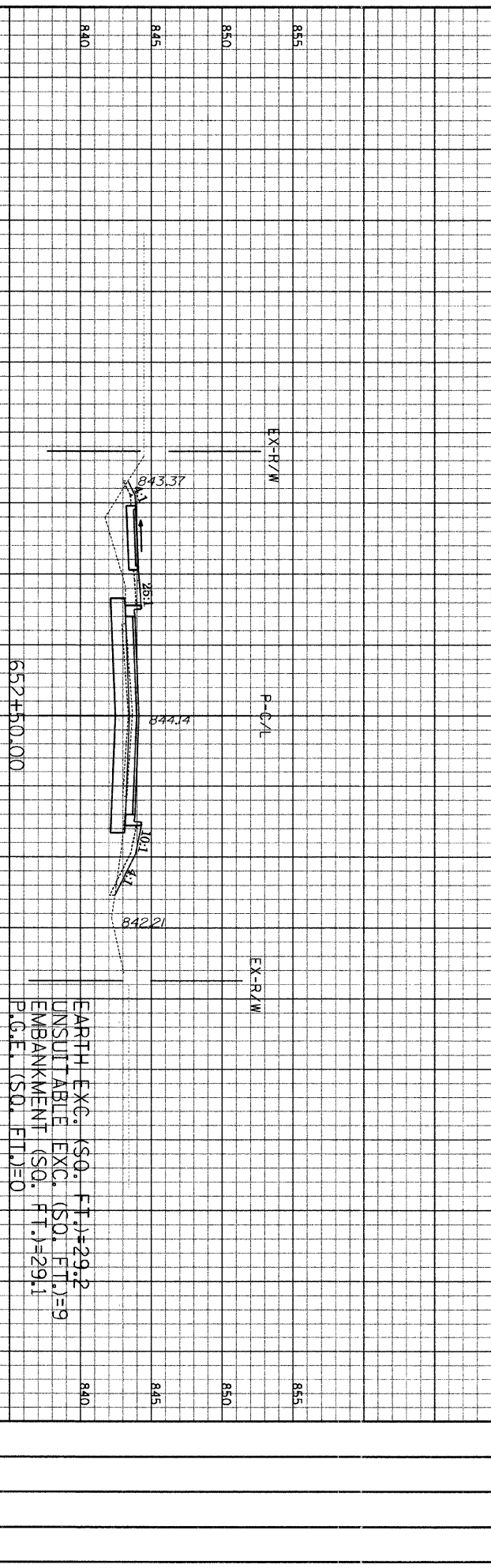
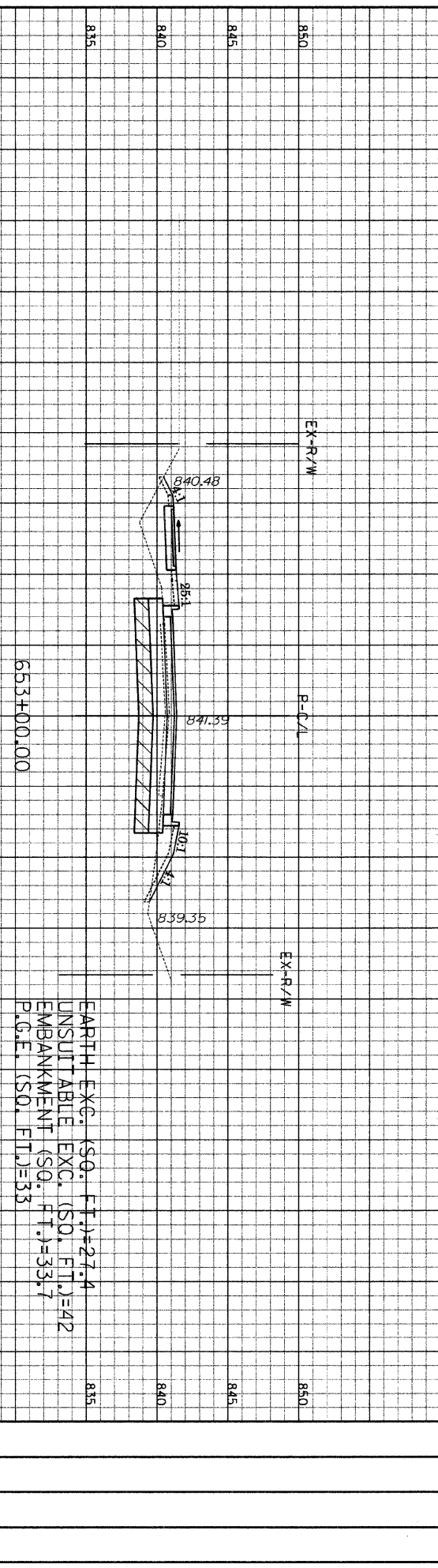
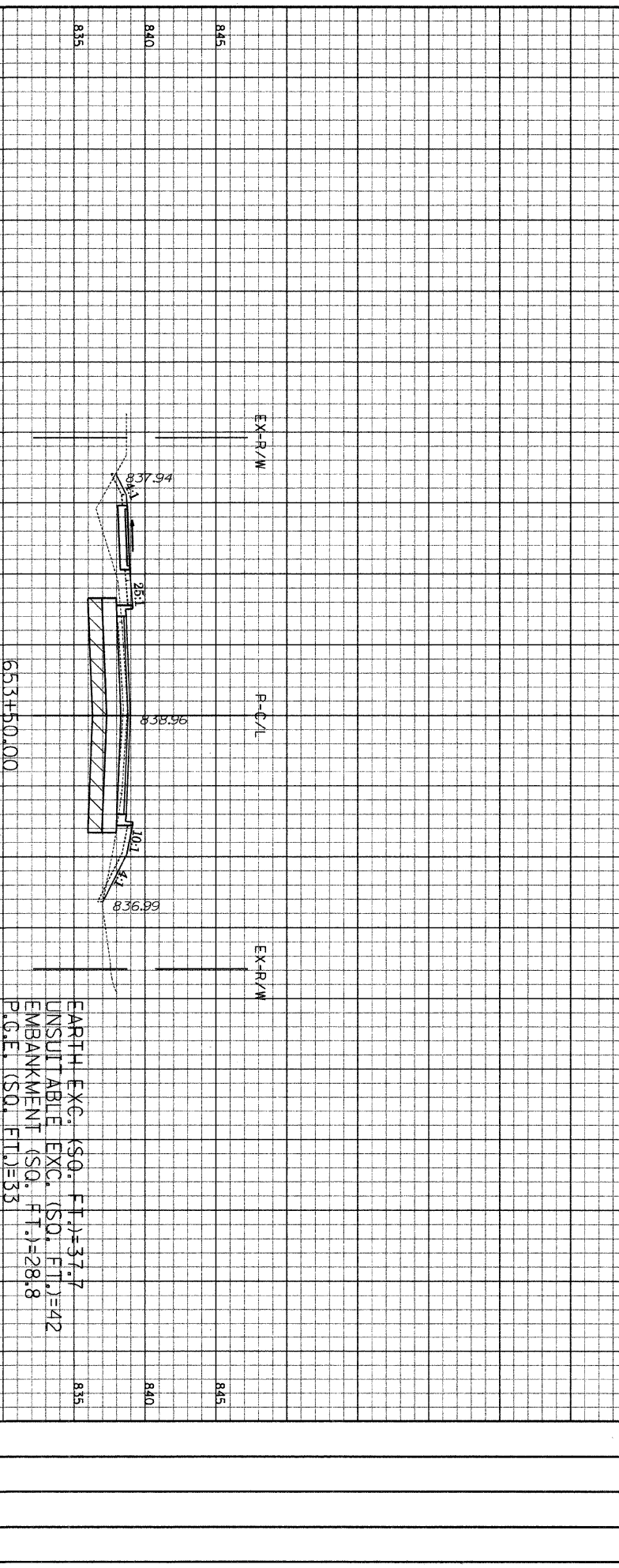


EARTH EXC. (SQ. FT.)=63.2
 UNSUITABLE EXC. (SQ. FT.)=0
 EMBANKMENT (SQ. FT.)=7
 P.C.E. (SQ. FT.)=0

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 801 N. Higgins Road, Suite 280
 Chicago, Illinois 60631
 (312) 399-9116

Hanson Road
 Edgewood to Huntington
 HOR. Scale: 1" = 10'
 Vert. Scale: 1" = 5'

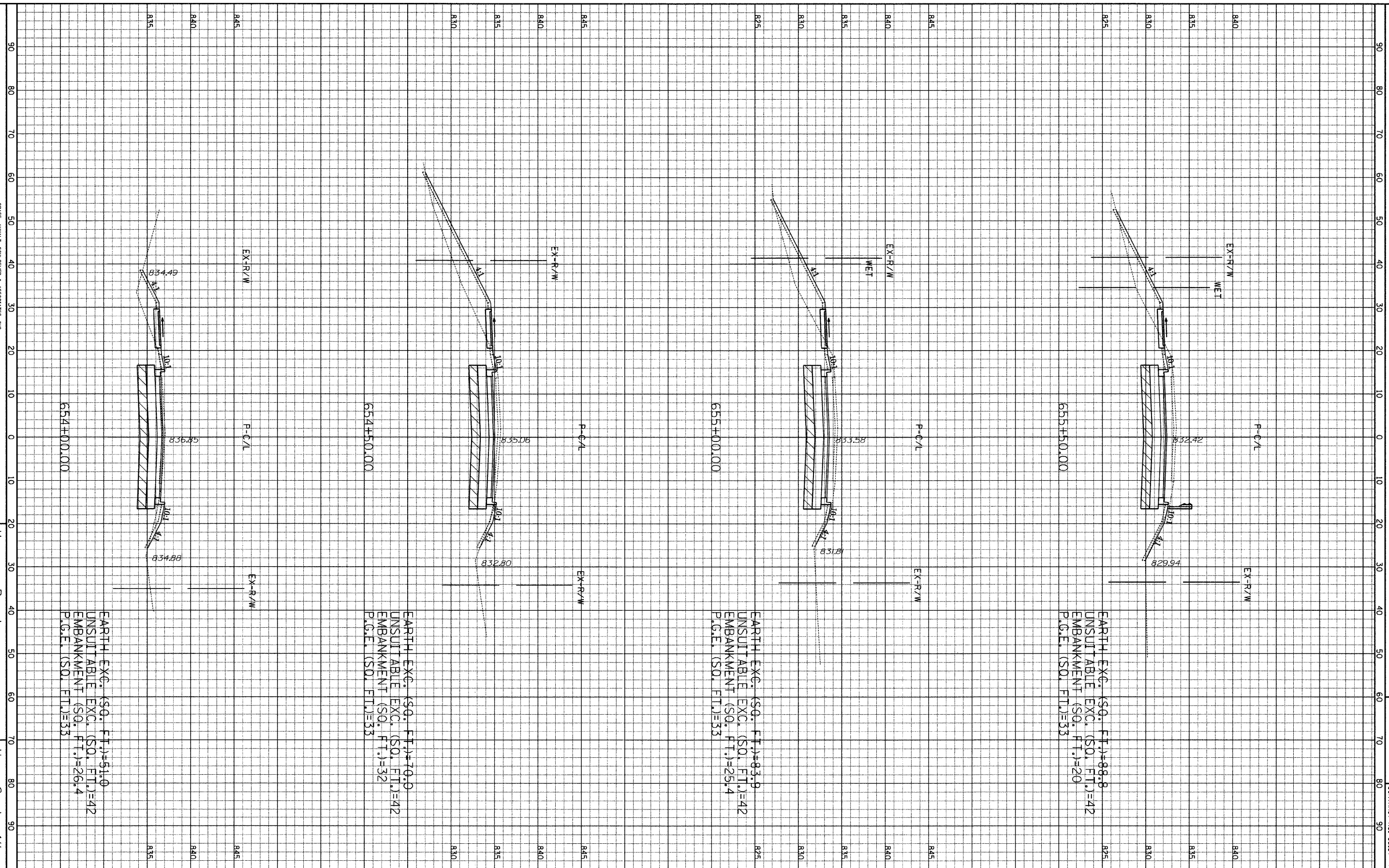
FILE #	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	03-00072-00-PP	MOHAWK	60	60
CONTRACT NO. 63137		ILLINOIS		
STA. 652+00.00		TO STA. 653+50.00		
CUT	FILL	CUT	FILL	
SF	SF	CY	CY	



Edgewood to Huntington
 Hdnson_Road
 Vert. Scale: 1" = 5'
 Hor. Scale: 1" = 10'

GRAEF, ANHALT, SCHUMER & ASSOCIATES, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8501 N. Higgins Road, Suite 280
 Chicago, IL 60631
 (773) 399-9412

FILE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
001	07-00072-00-00-00	MOHAWK	80	61
CONTRACT NO. 63137		ILLINOIS		
STA. 654+00.00		TO STA. 655+50.00		



EARTH EXC. (SQ. FT.)=99.8
 UNSUITABLE EXC. (SQ. FT.)=42
 EMBANKMENT (SQ. FT.)=20
 P.C.E. (SQ. FT.)=33

EARTH EXC. (SQ. FT.)=93.9
 UNSUITABLE EXC. (SQ. FT.)=42
 EMBANKMENT (SQ. FT.)=25.4
 P.C.E. (SQ. FT.)=33

EARTH EXC. (SQ. FT.)=70.0
 UNSUITABLE EXC. (SQ. FT.)=42
 EMBANKMENT (SQ. FT.)=32
 P.C.E. (SQ. FT.)=33

EARTH EXC. (SQ. FT.)=51.0
 UNSUITABLE EXC. (SQ. FT.)=42
 EMBANKMENT (SQ. FT.)=26.4
 P.C.E. (SQ. FT.)=33

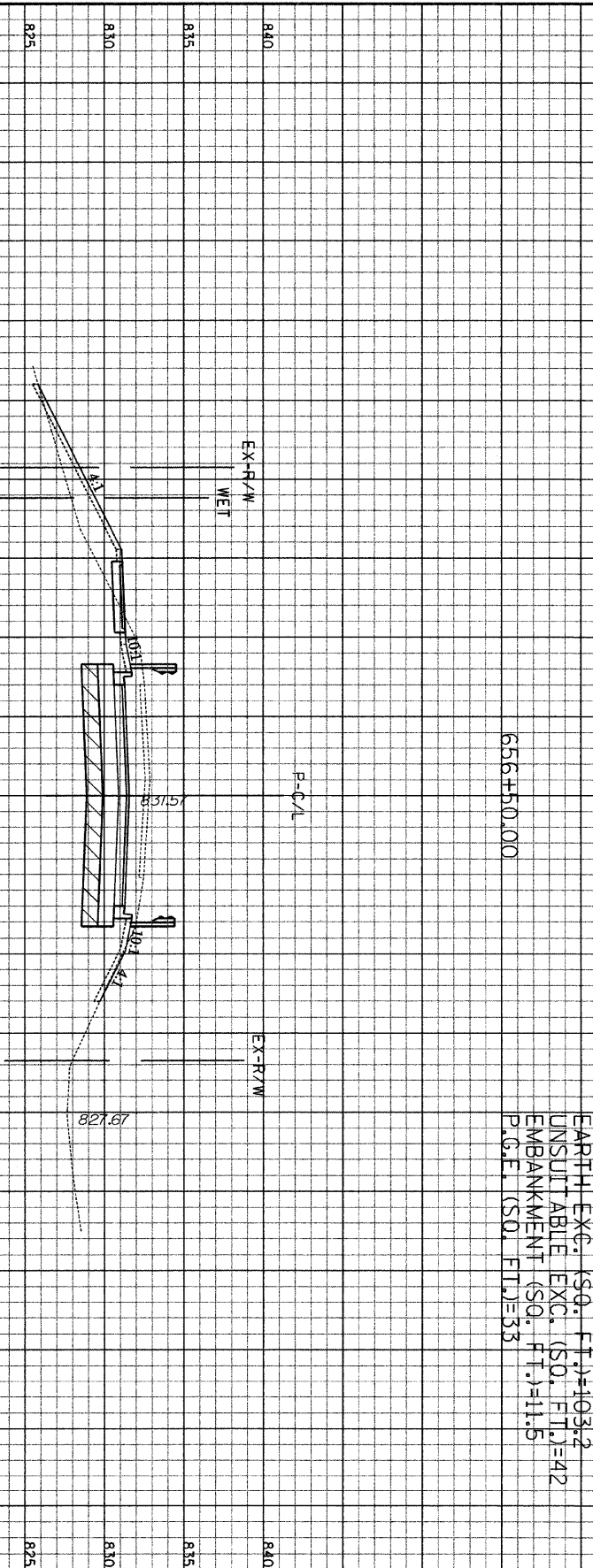
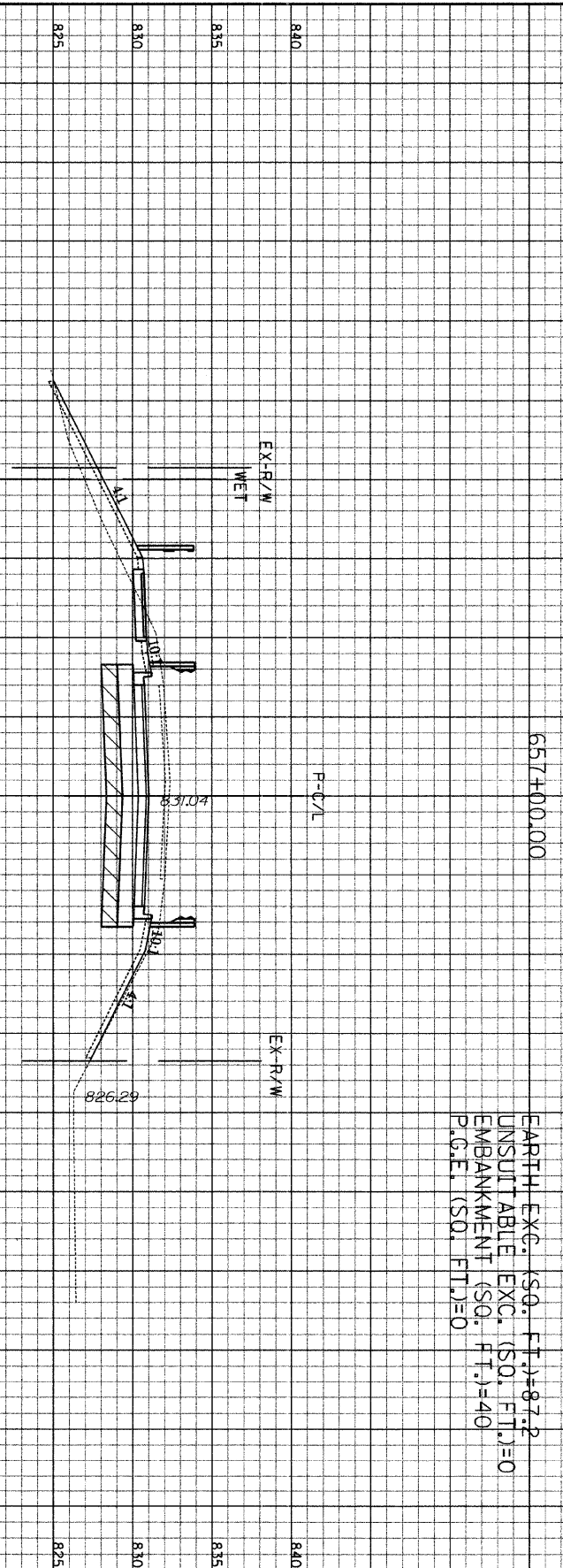
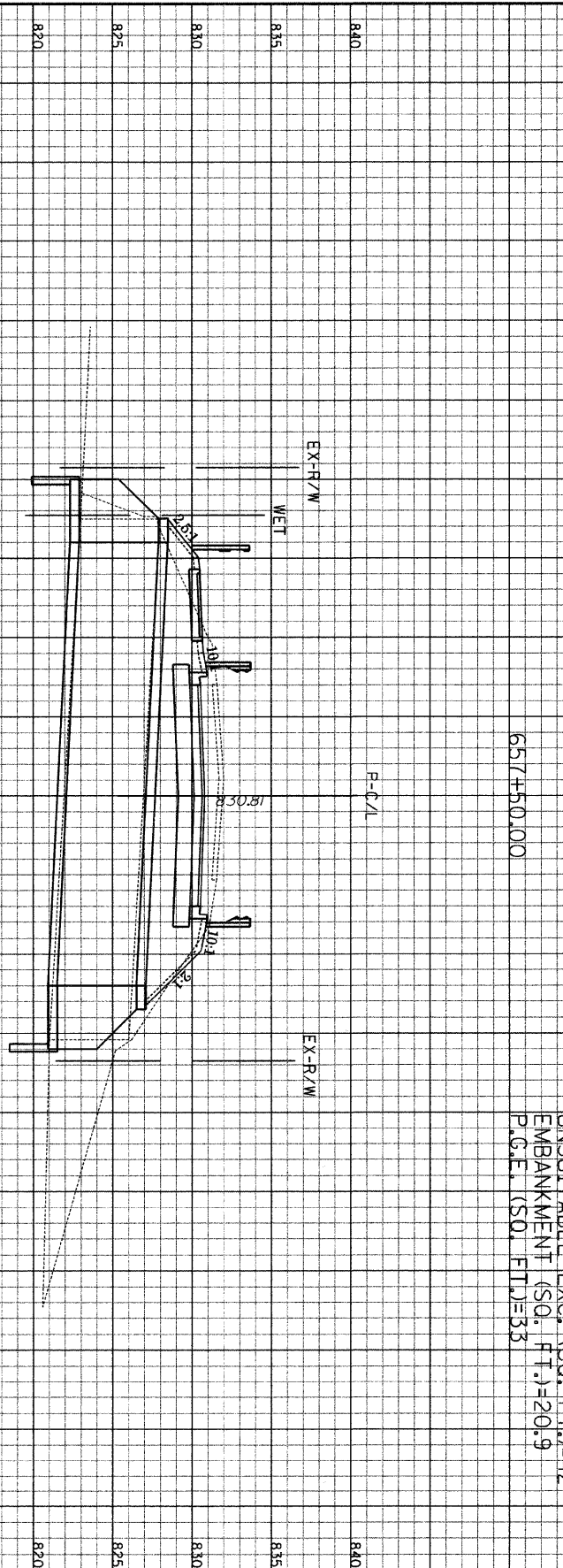
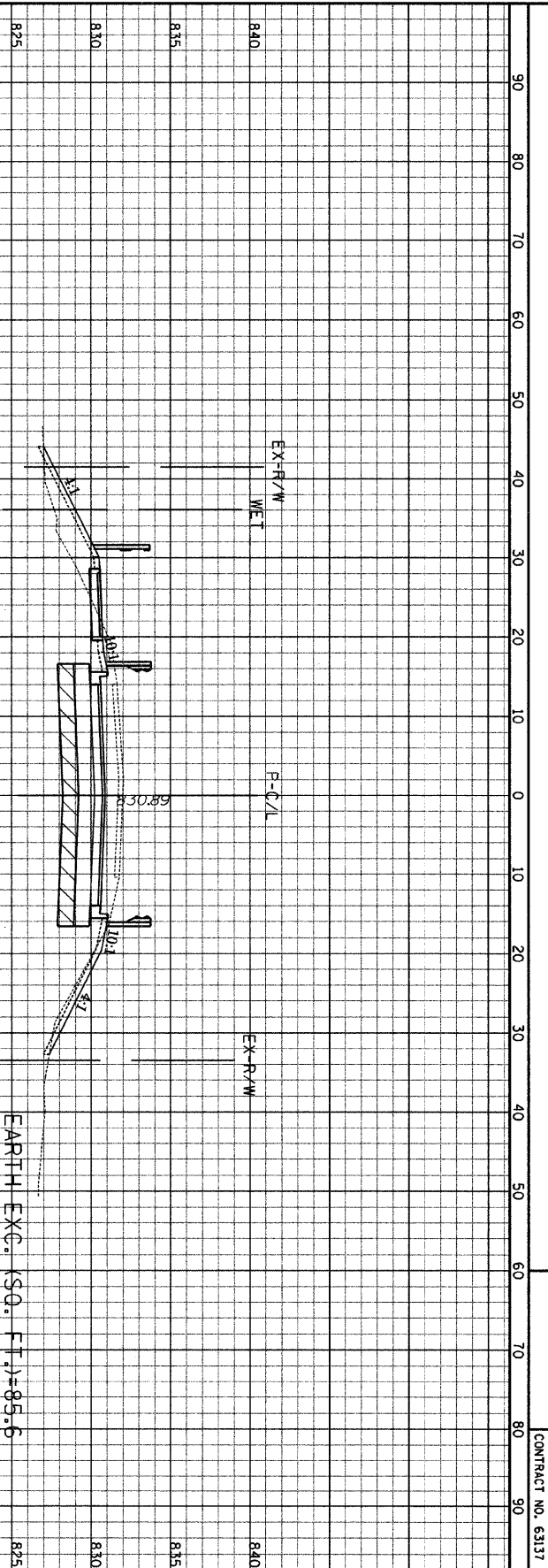
CUT	FILL	CUT	FILL
SF	SF	CY	CY

GRAFF, ANNA L, SOH, GEMER & ASSOCIATES, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8501 N. Higgins Road, Suite 280
 Chicago, IL 60631 312-399-9412

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

FILE	SECTION	COUNTY	TOTAL
REL			SHEETS
4011	07-00072-00-PAV	MONROE	80
			62
CONTRACT NO. 63137 ILLINOIS		TO STA. 657+50.00	

CUT	FILL	CUT	FILL
SF	SF	CY	CY

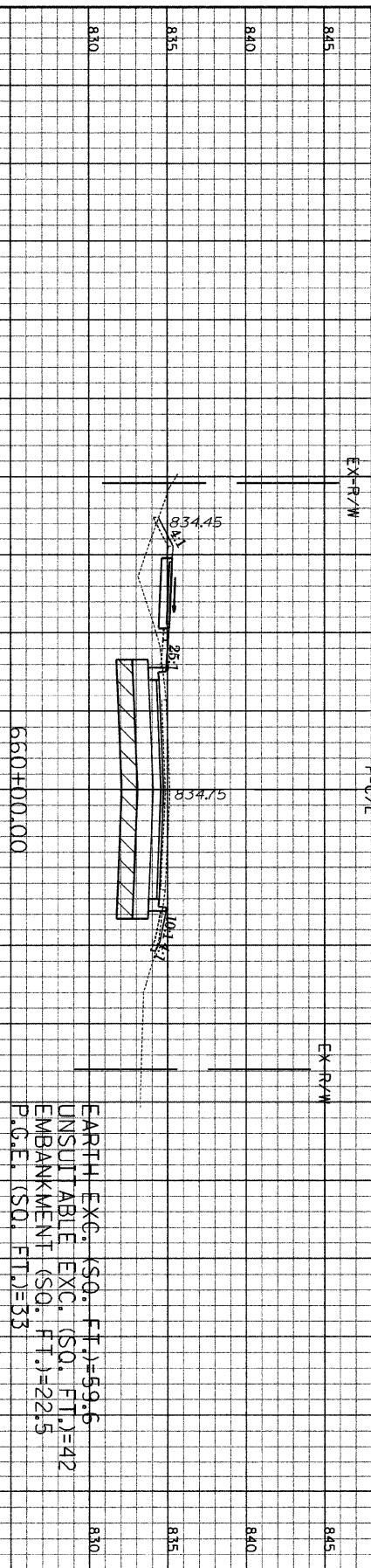


HANSON ROAD
 Edgewood to Huntington
 HOR. Scale: 1" = 10'
 VERT. Scale: 1" = 5'

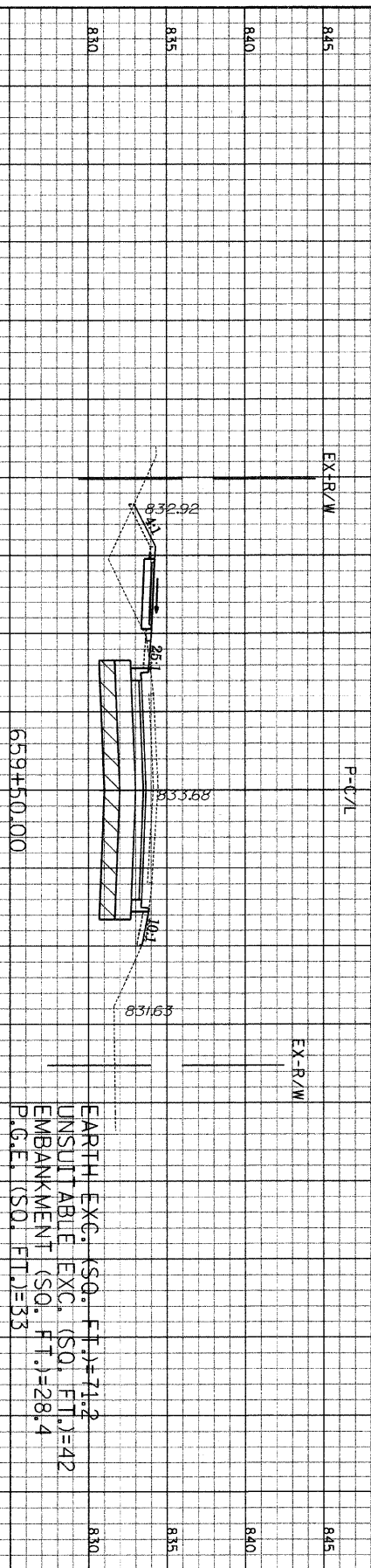
CHIEF, ANNA I. SCHUEER & ASSOCIATES, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8501 W. Higgins Road Suite 280
 Chicago, IL 60631
 (312) 398-0112

PLAN AREA	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
401	07-00075-00-PV	MEMPHIS	80	63
CONTRACT NO. 6317 ILLINOIS				
STA. 658+00.00 TO STA. 660+00.00				

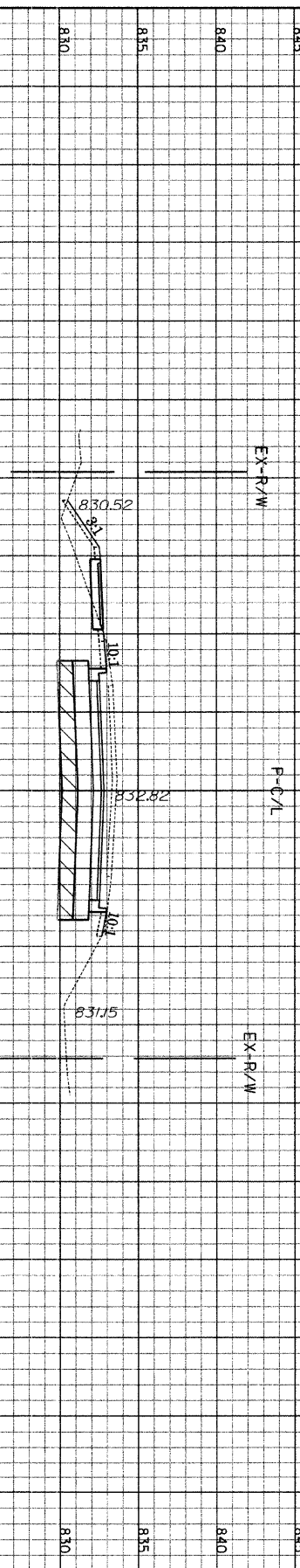
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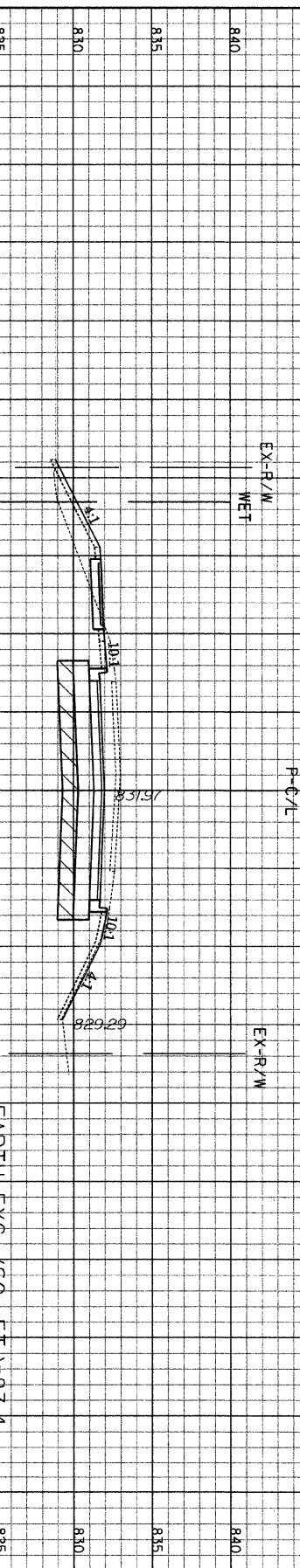
EARTH EXC. (SQ. FT.)=59.6
 UNSUITABLE EXC. (SQ. FT.)=42
 EMBANKMENT (SQ. FT.)=22.5
 P.C.E. (SQ. FT.)=33



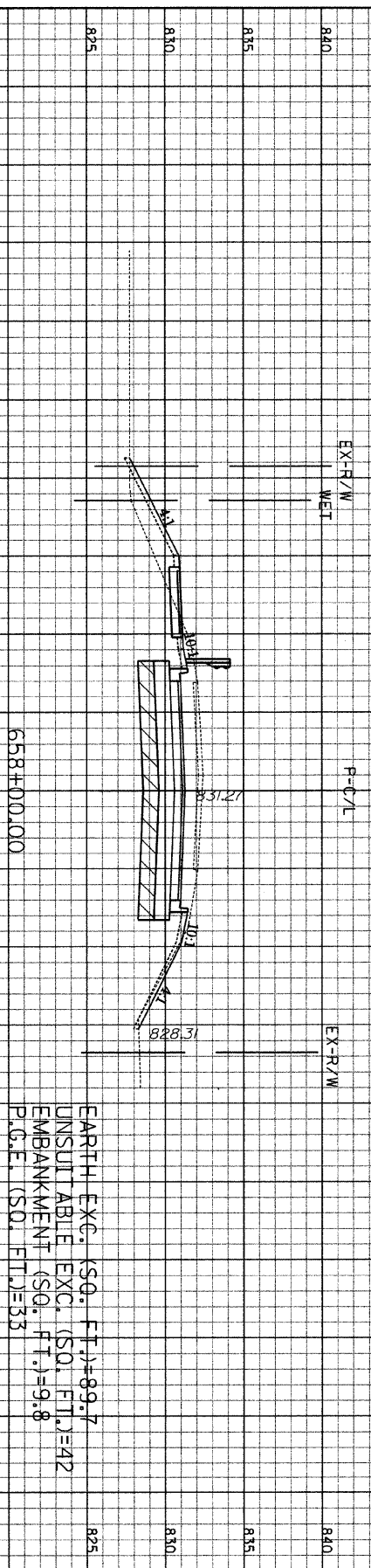
EARTH EXC. (SQ. FT.)=71.2
 UNSUITABLE EXC. (SQ. FT.)=42
 EMBANKMENT (SQ. FT.)=28.4
 P.C.E. (SQ. FT.)=33



EARTH EXC. (SQ. FT.)=74.4
 UNSUITABLE EXC. (SQ. FT.)=42
 EMBANKMENT (SQ. FT.)=16.8
 P.C.E. (SQ. FT.)=33



EARTH EXC. (SQ. FT.)=87.4
 UNSUITABLE EXC. (SQ. FT.)=42
 EMBANKMENT (SQ. FT.)=11.5
 P.C.E. (SQ. FT.)=33

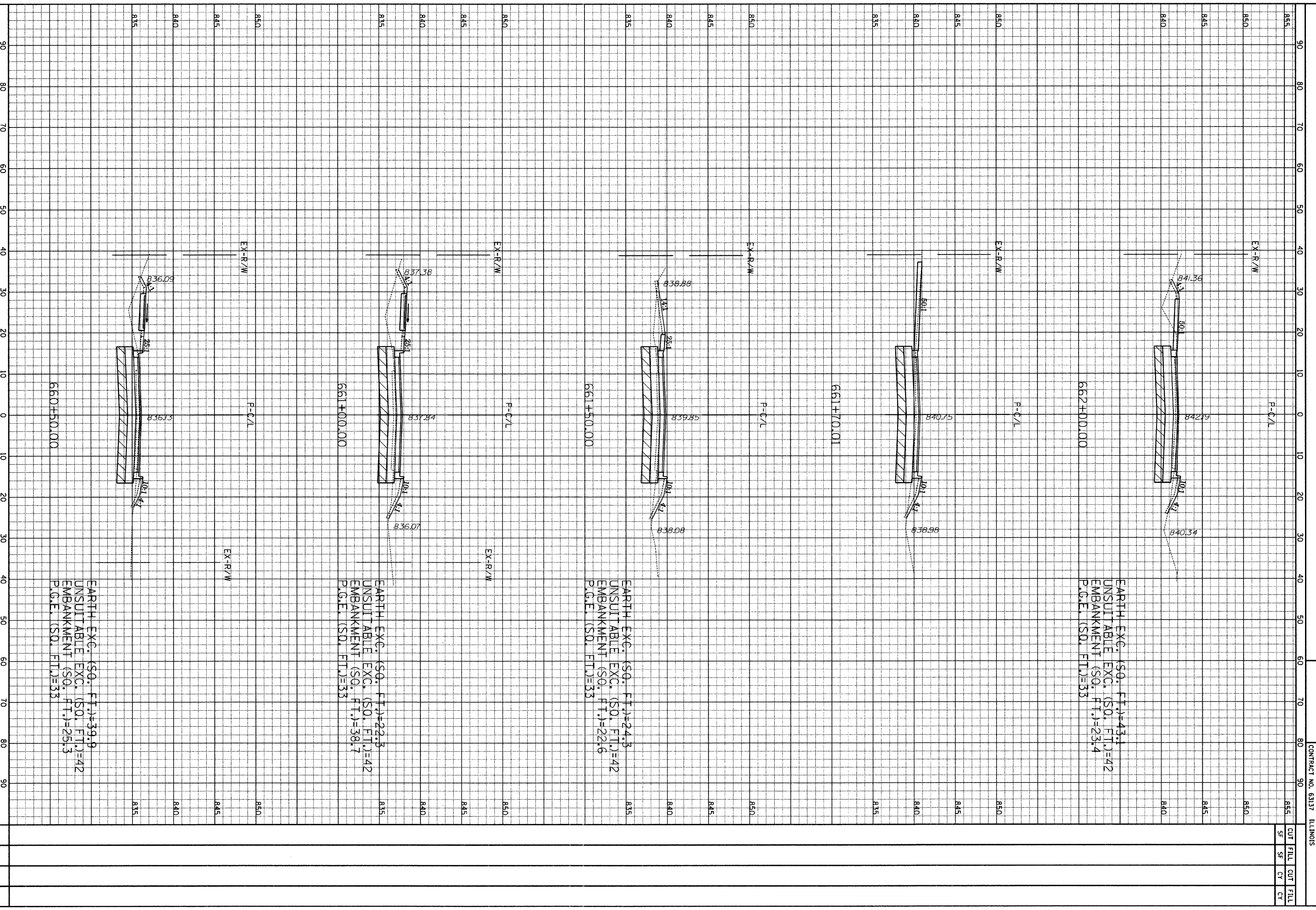


EARTH EXC. (SQ. FT.)=89.7
 UNSUITABLE EXC. (SQ. FT.)=42
 EMBANKMENT (SQ. FT.)=9.8
 P.C.E. (SQ. FT.)=33

GRAPH: ANNA T. SCHUMER & ASSOCIATES, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8501 N. Higgins Road, Suite 280
 Chicago, IL 60631
 312.999.9116

Hanson Road
 Edgewood to Huntington
 HOR. Scale: 1" = 10'
 VERT. Scale: 1" = 5'

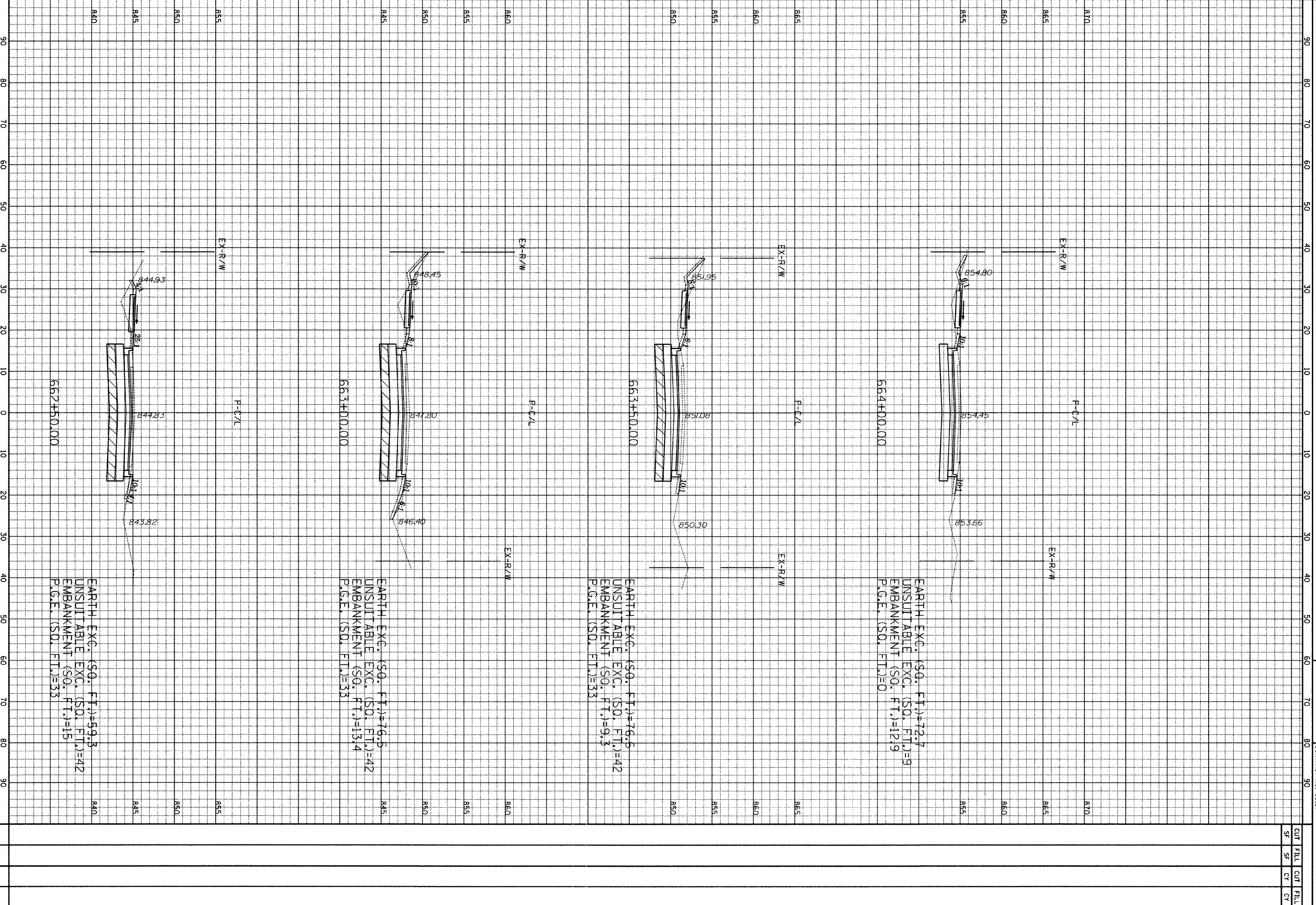
PLAN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	07-0007E-00-04V	MONROE	80	64
CONTRACT NO. 63137 ILLINOIS		TO STA. 662+00.00		



GRAEF, ANHALT, SCHUMER & ASSOCIATES, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8501 N. Higgins Road, Suite 280
 Chicago, IL 60631

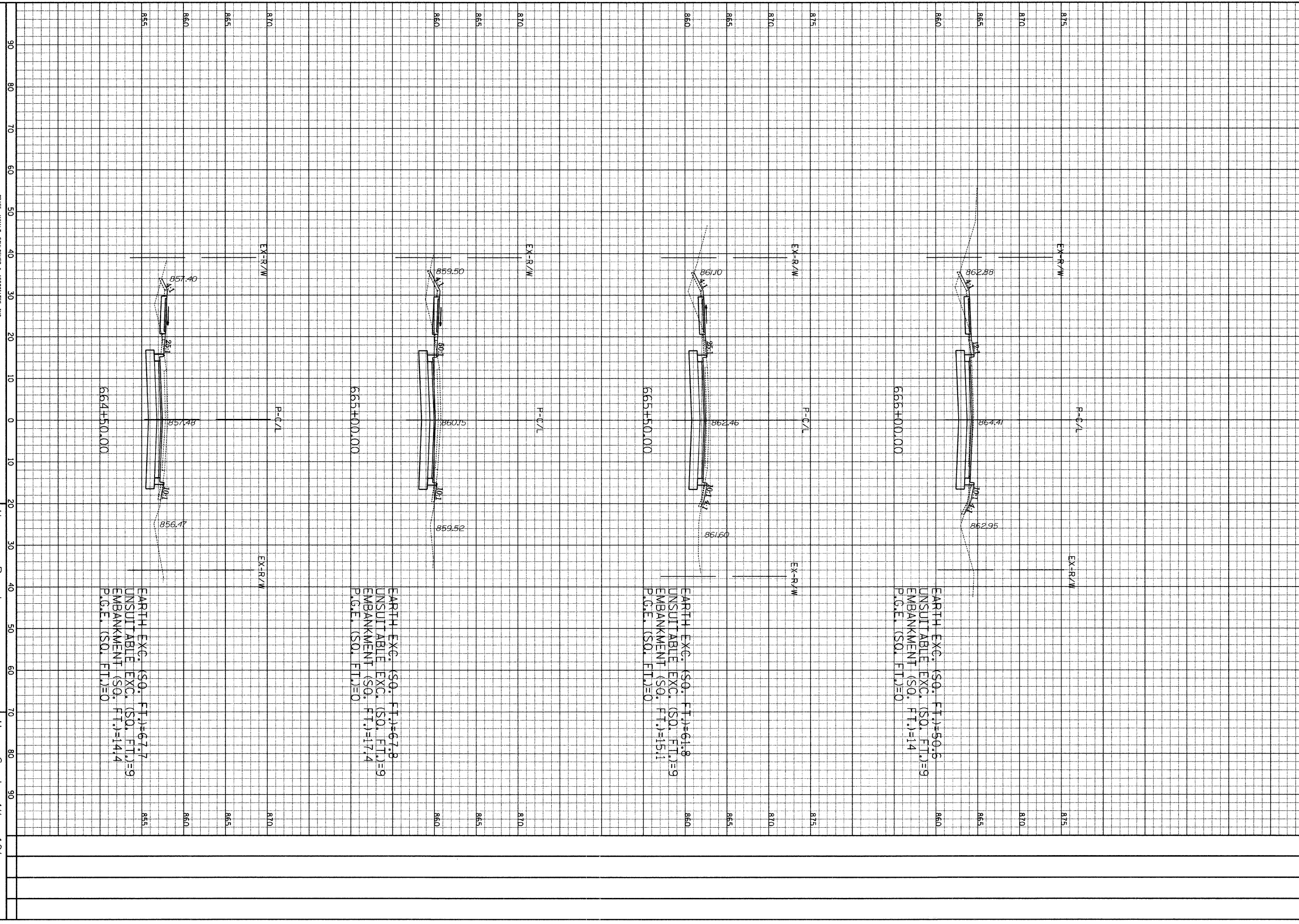
Hdson Road
 Edgewood to Huntington
 Hor. Scale: 1" = 10'
 Vert. Scale: 1" = 5'

FEAD RTEL	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	03-00072-00-04	MOHAWK	80	65
CONTRACT NO. 63137		ILLINOIS		
STA. 662+50.00		TO STA. 664+00.00		
CUT	FILL	CUT	FILL	
SF	SF	CY	CY	



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 8501 N. Higgins Road, Suite 280
 Chicago, IL 60631
 (773) 399-9112

Hanson Road
 Edgewood to Huntington
 HOR. Scale: 1" = 10'
 Vert. Scale: 1" = 5'

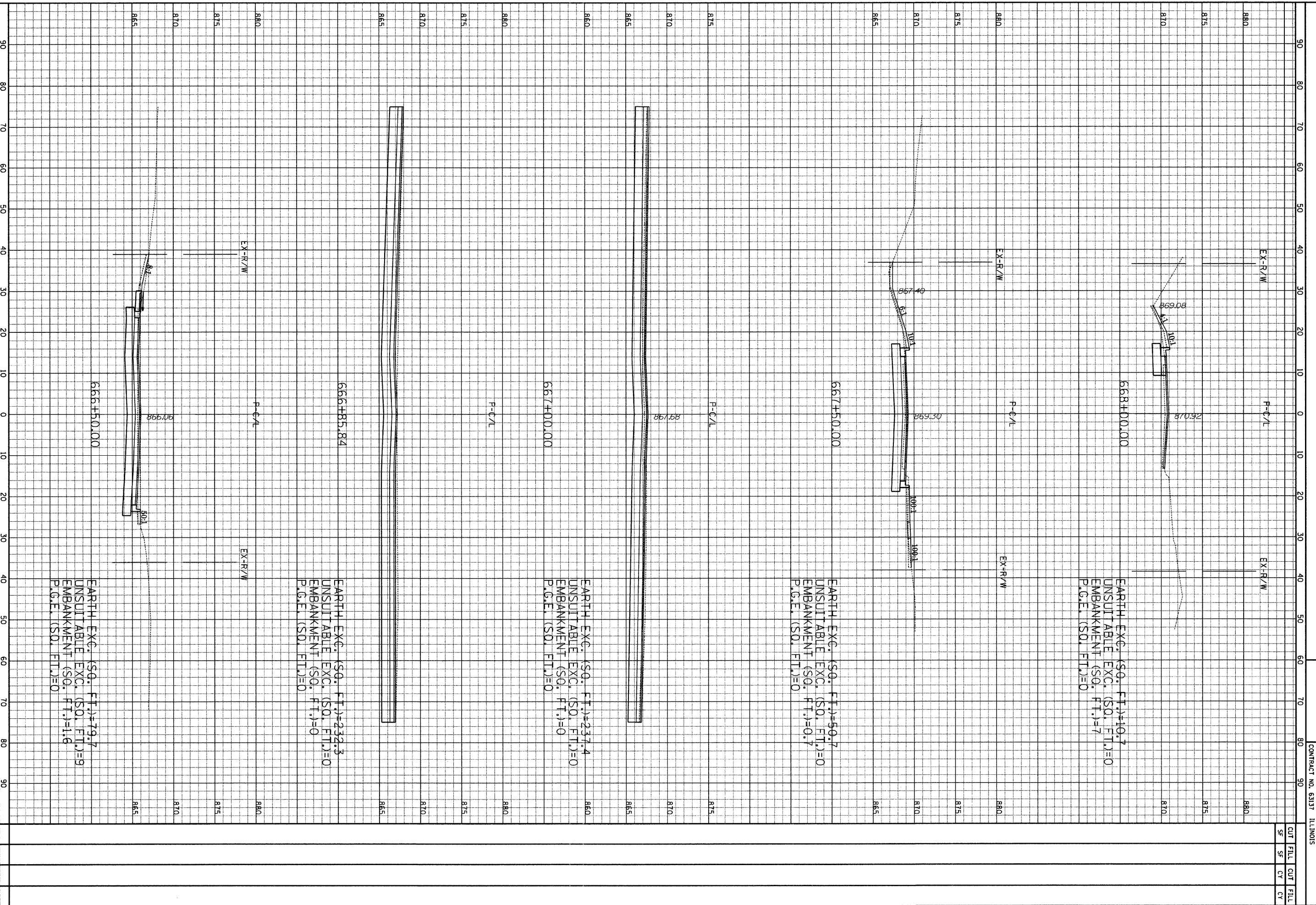


G.H.F. ANHALT, I. SCHAEFER & ASSOCIATES, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8501 W. Higgins Road, Suite 280
 Chicago, IL 60631, 312-999-9112

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

PROJECT NO.	SECTION	COUNTRY	TOTAL SHEETS	SHEET NO.
07-00072-00-04V		USA	80	67
CONTRACT NO. 63137	ILLINOIS			

STA. 666+50.00 TO STA. 668+00.00



EARTH EXC. (SQ. FT.)=10.7
 UNSUITABLE EXC. (SQ. FT.)=0
 EMBANKMENT (SQ. FT.)=7
 P.C.E. (SQ. FT.)=0

EARTH EXC. (SQ. FT.)=50.7
 UNSUITABLE EXC. (SQ. FT.)=0
 EMBANKMENT (SQ. FT.)=0.7
 P.C.E. (SQ. FT.)=0

EARTH EXC. (SQ. FT.)=237.4
 UNSUITABLE EXC. (SQ. FT.)=0
 EMBANKMENT (SQ. FT.)=0
 P.C.E. (SQ. FT.)=0

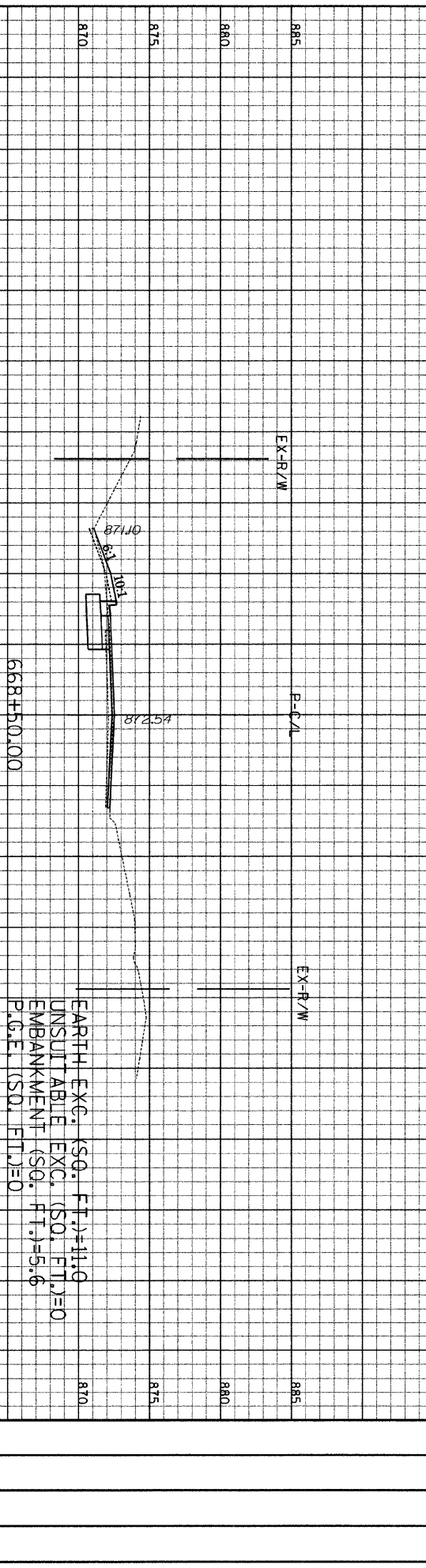
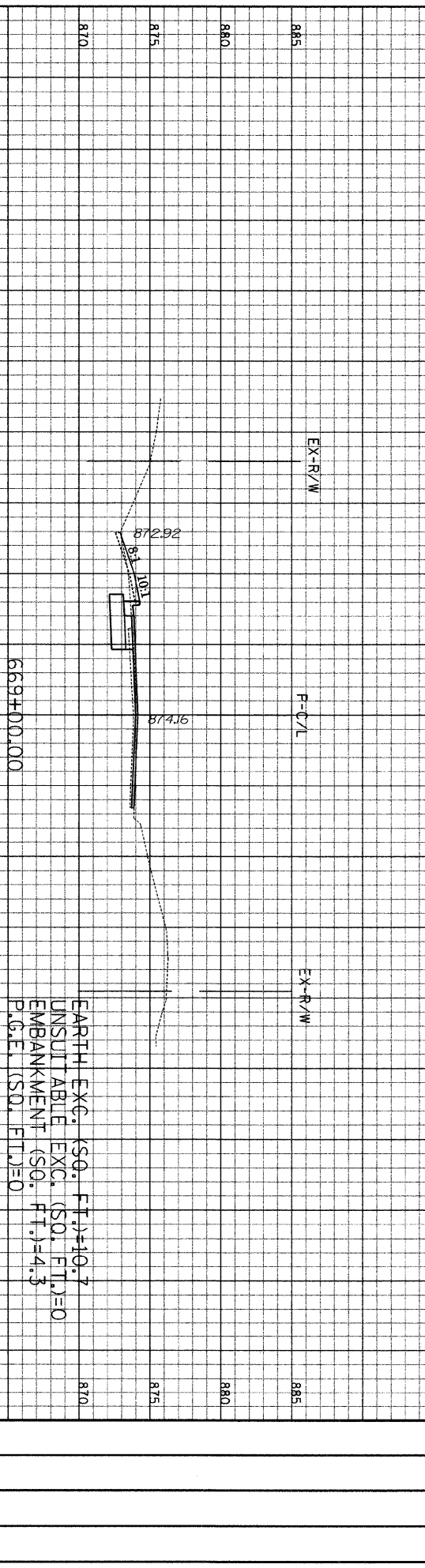
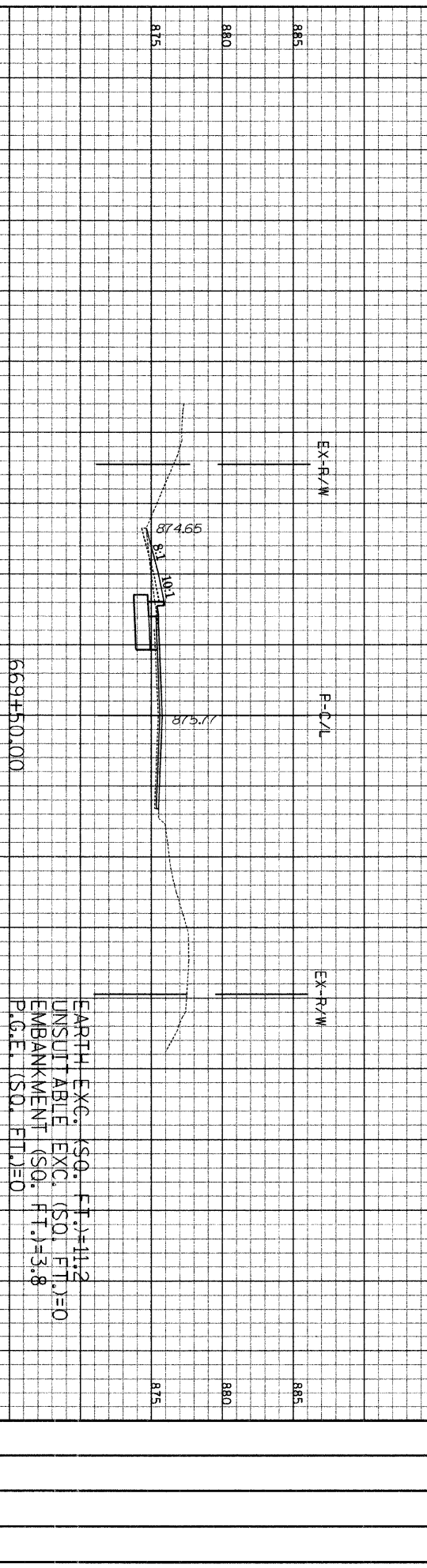
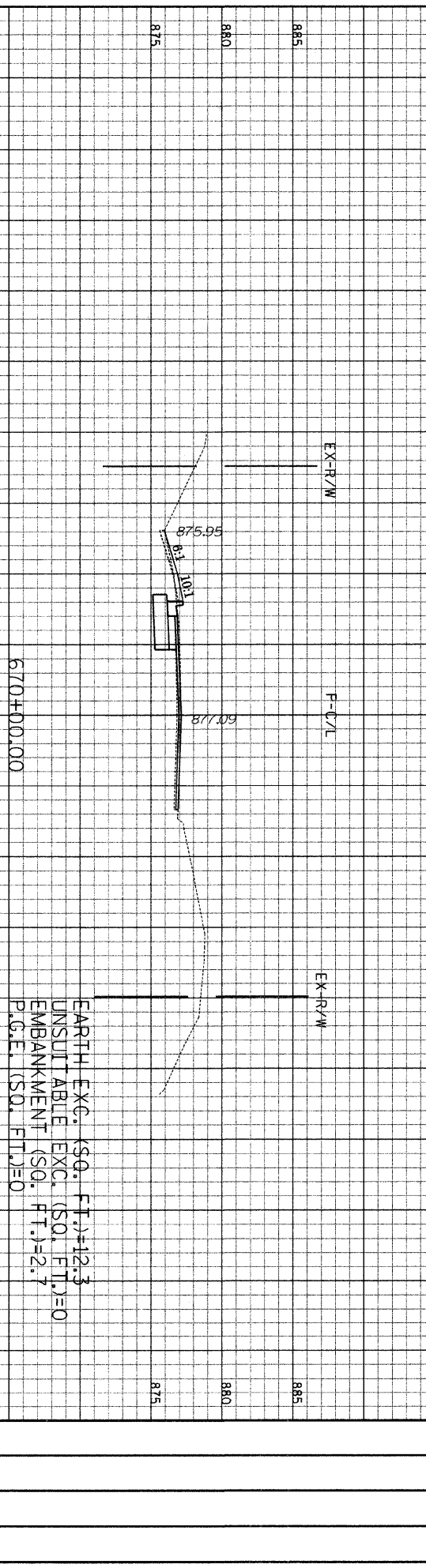
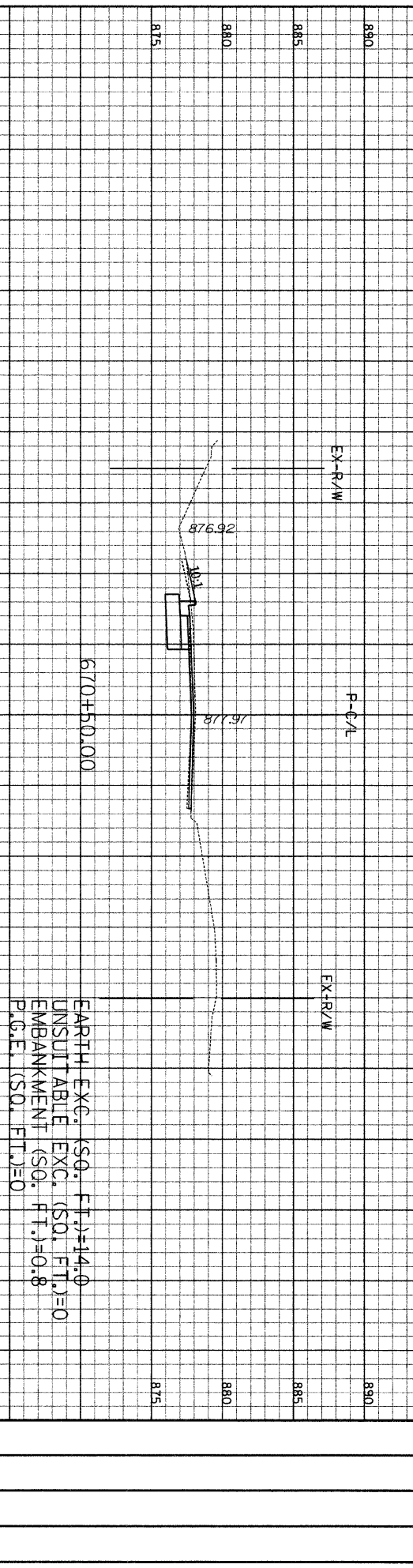
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 EMBANKMENT (SQ. FT.)=0
 P.C.E. (SQ. FT.)=0

EARTH EXC. (SQ. FT.)=79.7
 UNSUITABLE EXC. (SQ. FT.)=9
 EMBANKMENT (SQ. FT.)=1.6
 P.C.E. (SQ. FT.)=0

GRAF. ANNA I. SCHUMER & ASSOCIATES, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8501 W. Higgins Road, Suite 280
 Chicago, IL 60631
 (773) 399-9412

Hanson Road
 Edgewood to Huntington
 HOR. Scale: 1" = 10'
 VERT. Scale: 1" = 5'

PLAN	SECTION	COUNTY	TOTAL
801	07-00072-00-00-PW	MEMPHIS	SHEETS
			80
			68
CONTRACT NO. 6317 ILLINOIS			SHEET NO.
STA. 668+50.00 TO STA. 670+50.00			68

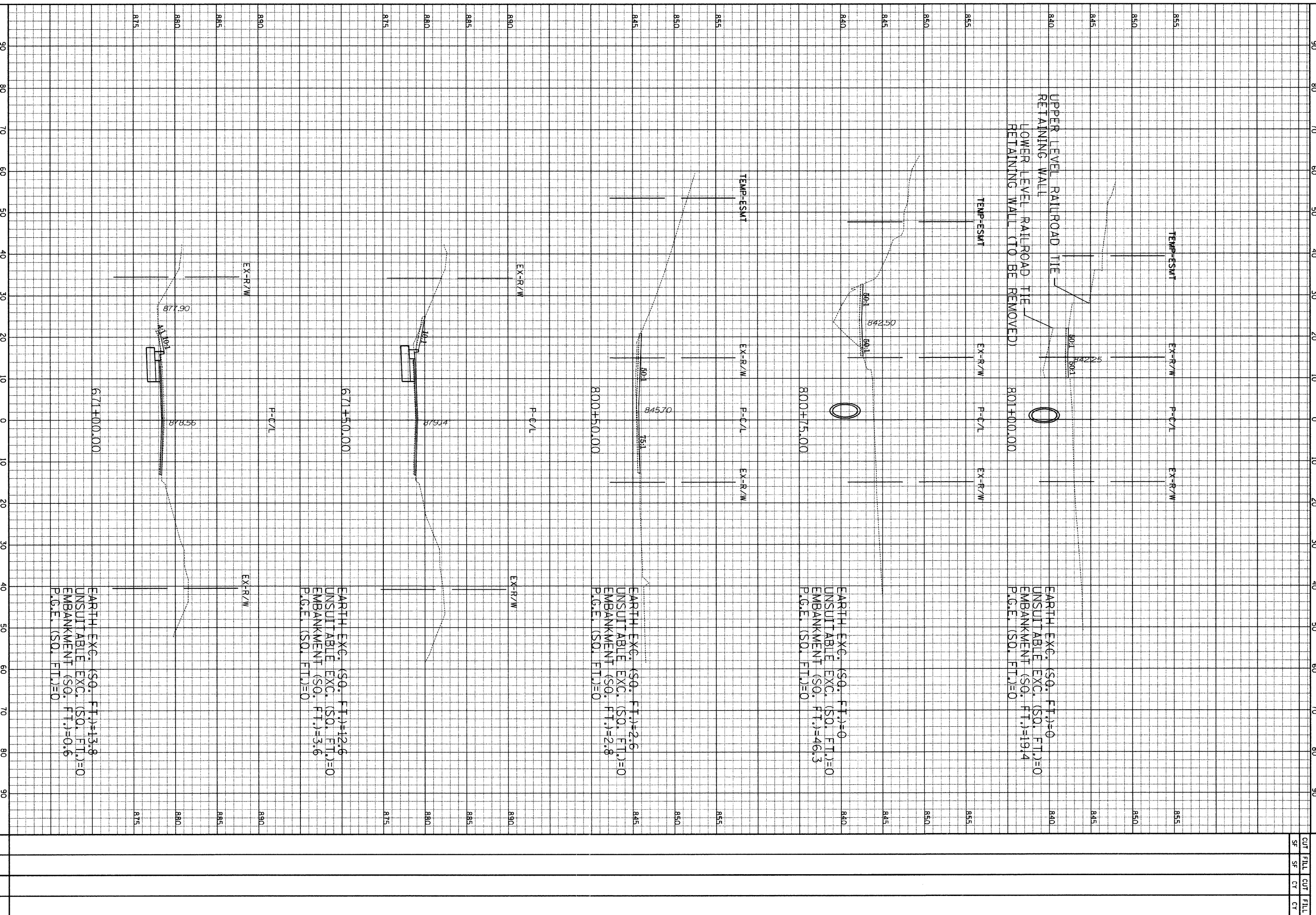


GRAFF, ANHAL, I, SCH, GEMER & ASSOCIATES, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8501 N. Higgins Road, Suite 280
 Chicago, IL 60631
 (312) 399-9412

Hanson Road
Edgewood to Huntington

HOR. Scale: 1" = 10'
 VERT. Scale: 1" = 5'

PLAN AREA	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
401	07-00072-00-00-PV	MONROE	20	19
CONTRACT NO. 63137 ILLINOIS		TO STA. 801+00.00		



EARTH EXC. (SQ. FT.)=0
 UNSUITABLE EXC. (SQ. FT.)=0
 EMBANKMENT (SQ. FT.)=19.4
 P.C.E. (SQ. FT.)=0

EARTH EXC. (SQ. FT.)=0
 UNSUITABLE EXC. (SQ. FT.)=0
 EMBANKMENT (SQ. FT.)=46.3
 P.C.E. (SQ. FT.)=0

EARTH EXC. (SQ. FT.)=2.6
 UNSUITABLE EXC. (SQ. FT.)=0
 EMBANKMENT (SQ. FT.)=2.8
 P.C.E. (SQ. FT.)=0

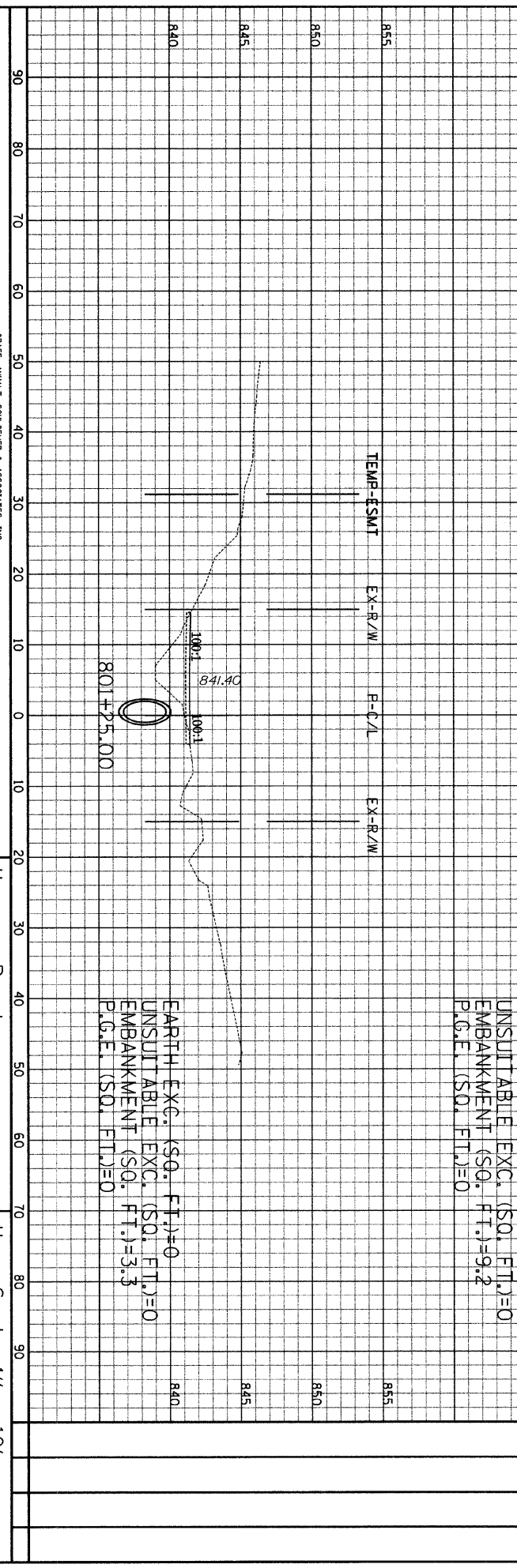
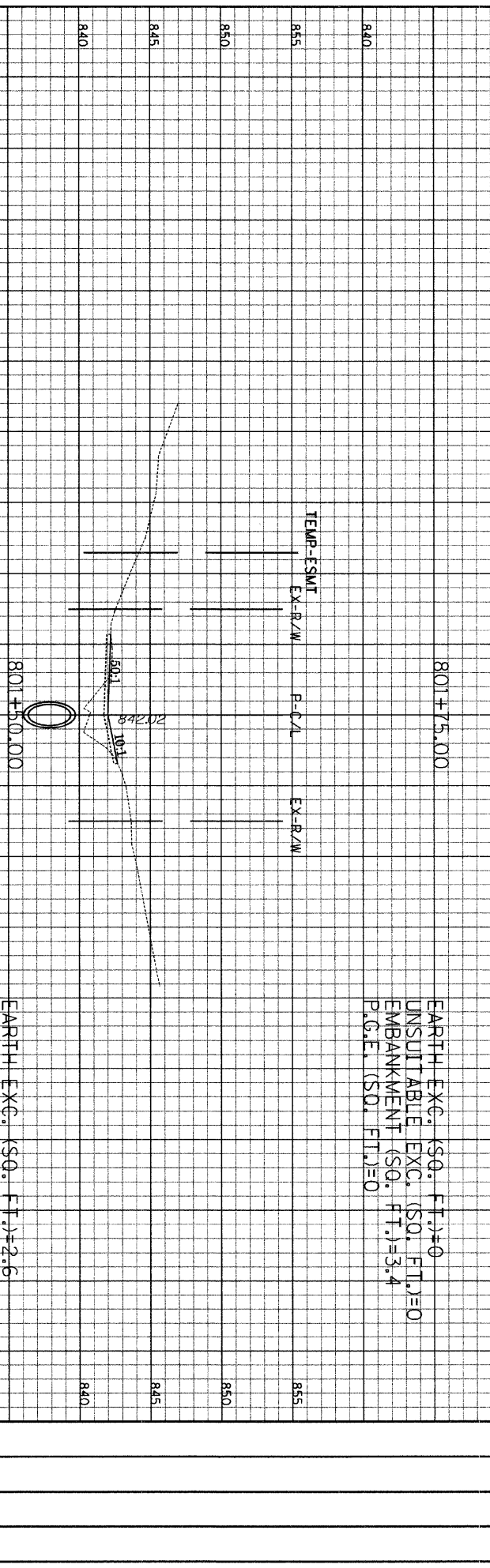
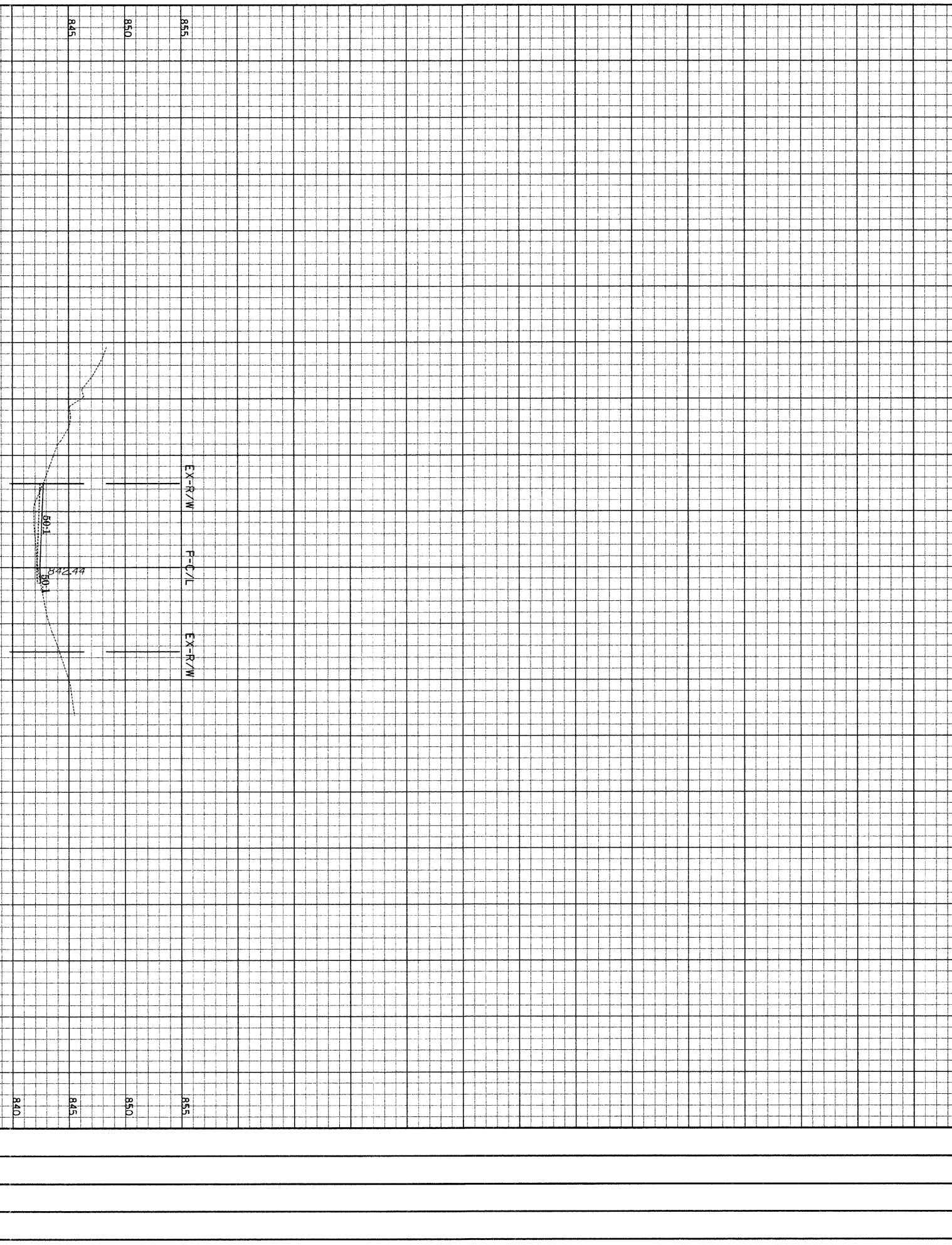
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 UNSUITABLE EXC. (SQ. FT.)=0
 EMBANKMENT (SQ. FT.)=3.6
 P.C.E. (SQ. FT.)=0

EARTH EXC. (SQ. FT.)=13.8
 UNSUITABLE EXC. (SQ. FT.)=0
 EMBANKMENT (SQ. FT.)=0.6
 P.C.E. (SQ. FT.)=0

GRAFF, ANHAI T., SCHLUMBER & ASSOCIATES, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8501 N. Higgins Road, Suite 280
 Chicago, Illinois 60631
 (312) 359-9116

Edgewood Road
 Hor. Scale: 1" = 10'
 Vert. Scale: 1" = 5'

PLAN REF.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
01	07-00073-00-00-PV	MOHAWK	80	70
STA. 801+25.00		TO STA. 801+75.00		
CONTRACT NO. 63137 ILLINOIS				
CUT	FILL	CUT	FILL	
SF	SF	CY	CY	

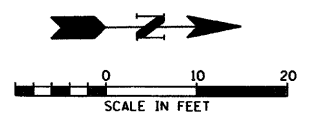
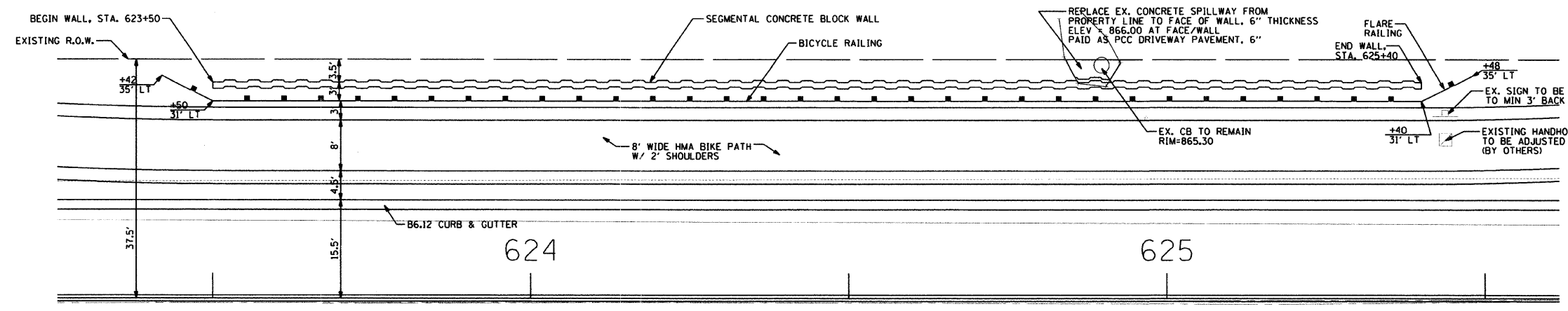


GRAFF, ANNA T, SCH GEMER & ASSOCIATES, INC.
 CONSULTING ENGINEERS AND LAND SURVEYORS
 8501 W. Higgins Road, Suite 280
 Chicago, IL 60631
 (773) 399-9412

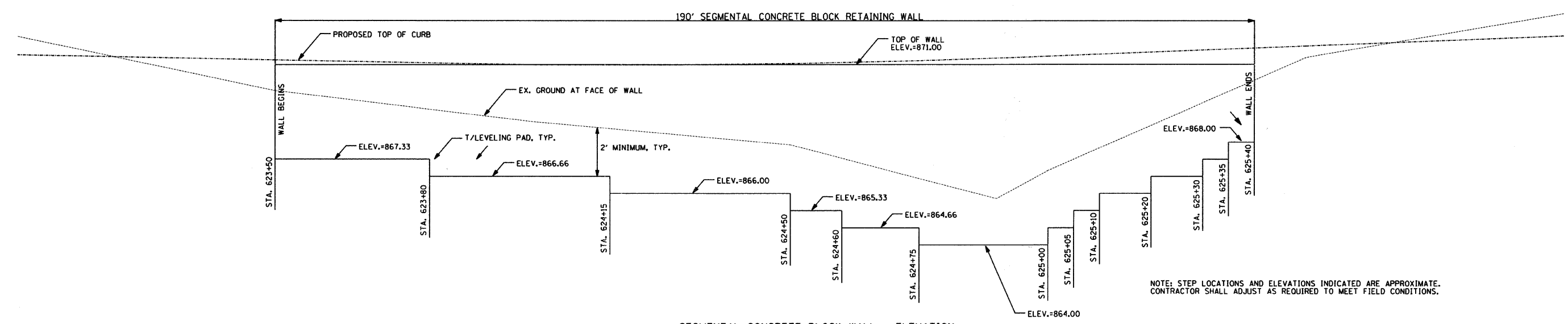
Hanson Road
 Edgewood to Huntington
 HOR. Scale: 1" = 10'
 Vert. Scale: 1" = 5'

F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	07-00072-00-PV	McHENRY	80	71

ILLINOIS PROJECT
CONTRACT NO. 63137

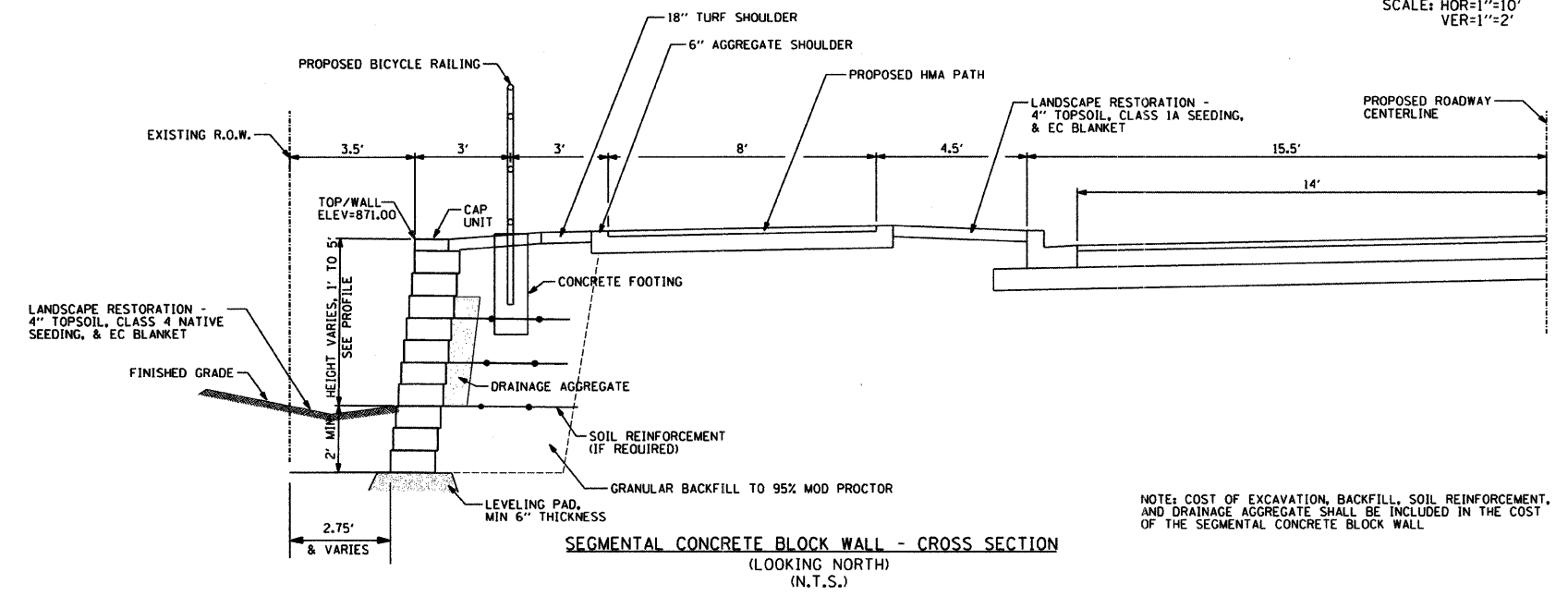


SEGMENTAL CONCRETE BLOCK WALL - PLAN VIEW
(LOOKING EAST)
SCALE: HOR=1"=10'



NOTE: STEP LOCATIONS AND ELEVATIONS INDICATED ARE APPROXIMATE. CONTRACTOR SHALL ADJUST AS REQUIRED TO MEET FIELD CONDITIONS.

SEGMENTAL CONCRETE BLOCK WALL - ELEVATION
(LOOKING EAST)
SCALE: HOR=1"=10'
VER=1"=2'



NOTE: COST OF EXCAVATION, BACKFILL, SOIL REINFORCEMENT, AND DRAINAGE AGGREGATE SHALL BE INCLUDED IN THE COST OF THE SEGMENTAL CONCRETE BLOCK WALL

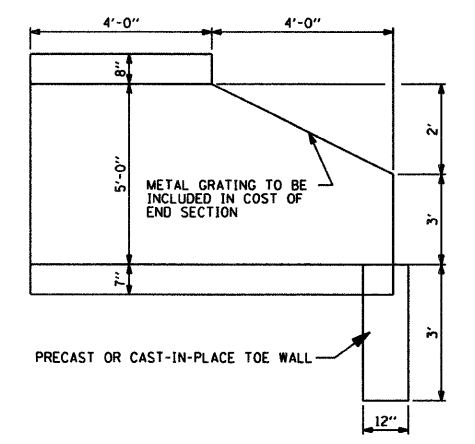
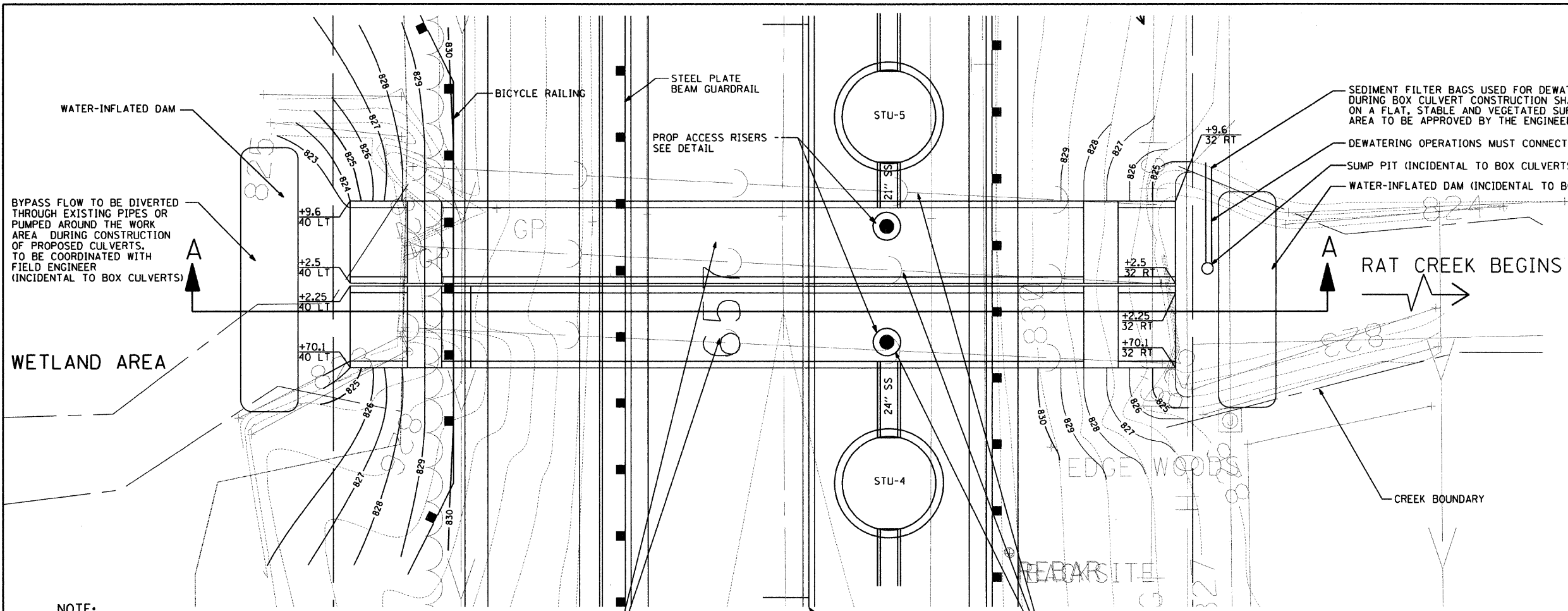
SEGMENTAL CONCRETE BLOCK WALL - CROSS SECTION
(LOOKING NORTH)
(N.T.S.)

REVISIONS	
NAME	DATE

HANSON ROAD IMPROVEMENTS
EDGEWOOD DRIVE TO HUNTINGTON DRIVE
RETAINING WALL DETAILS
DATE: 03-27-09
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	07-00072-00-PV	McHENRY	80	72

ILLINOIS PROJECT
CONTRACT NO. 63137



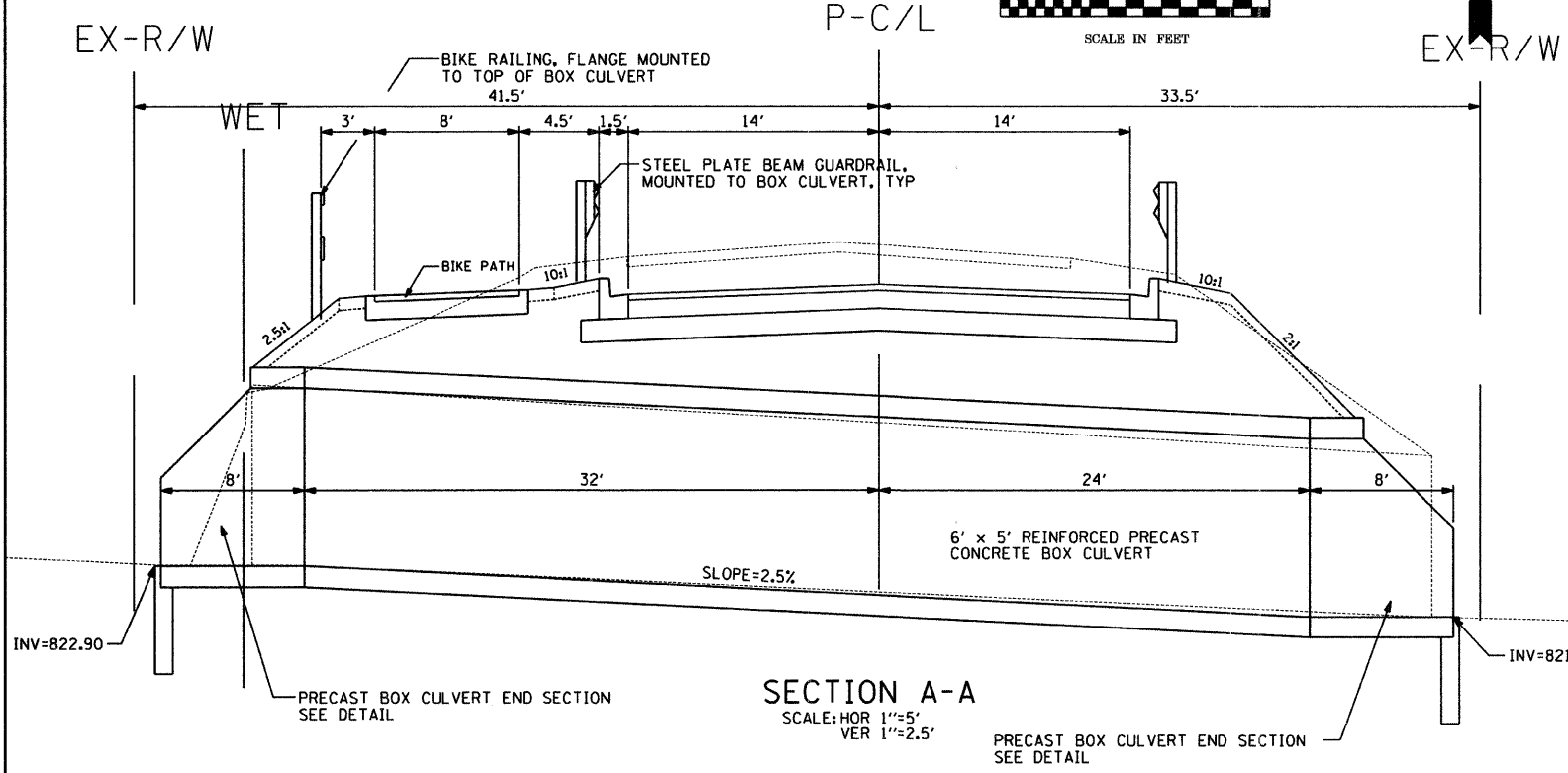
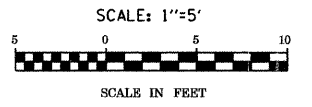
PRECAST BOX CULVERT END SECTION
(N.T.S.)

REINFORCEMENT FOR PRECAST BOX CULVERT SHALL CONFORM TO SPECIFICATIONS FOR SAME SIZE BOX UNIT.

NOTE:
THE COST OF ALL TEMPORARY COFFERDAMS, BYPASS PUMPING OR PIPING, AND DEWATERING SHALL BE INCLUDED IN THE COST OF THE PROPOSED BOX CULVERTS.

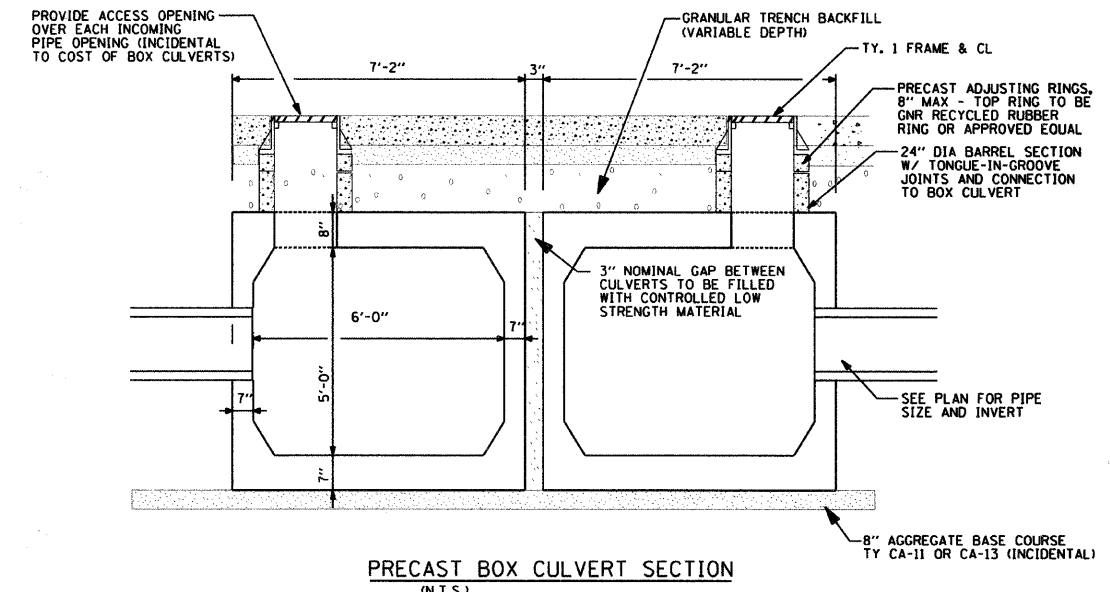
2 - 6' x 5' PRECAST CONCRETE REINFORCED BOX CULVERT

OUTLET DETAILS
SCALE: 1"=5'



SECTION A-A
SCALE: HOR 1"=5'
VER 1"=2.5'

PRECAST BOX CULVERT END SECTION SEE DETAIL



PRECAST BOX CULVERT SECTION
(N.T.S.)

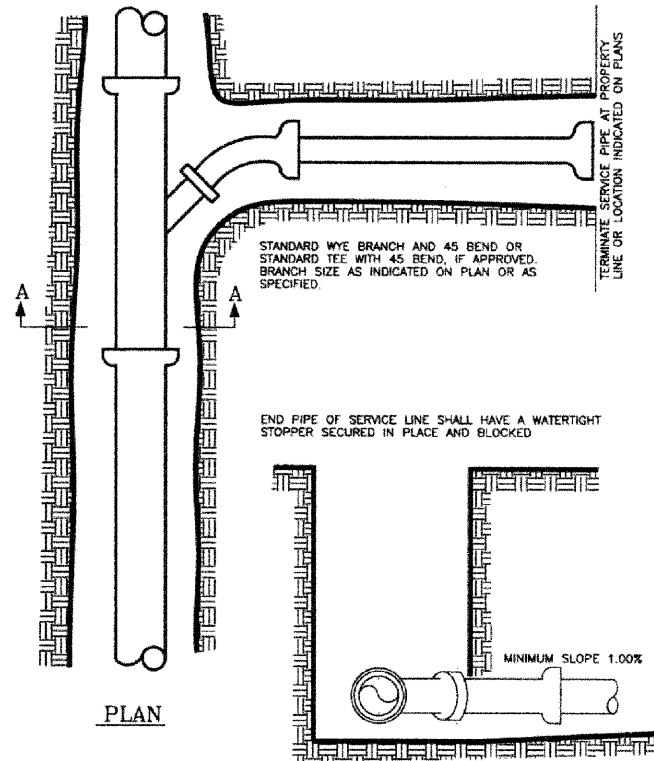
REVISIONS	
NAME	DATE

HANSON ROAD IMPROVEMENTS
EDGEWOOD DRIVE TO HUNTINGTON DRIVE
CULVERT DETAILS
DATE: 03-27-09
DRAWN BY: AJR
CHECKED BY: MAY
GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC.
CHICAGO, ILLINOIS

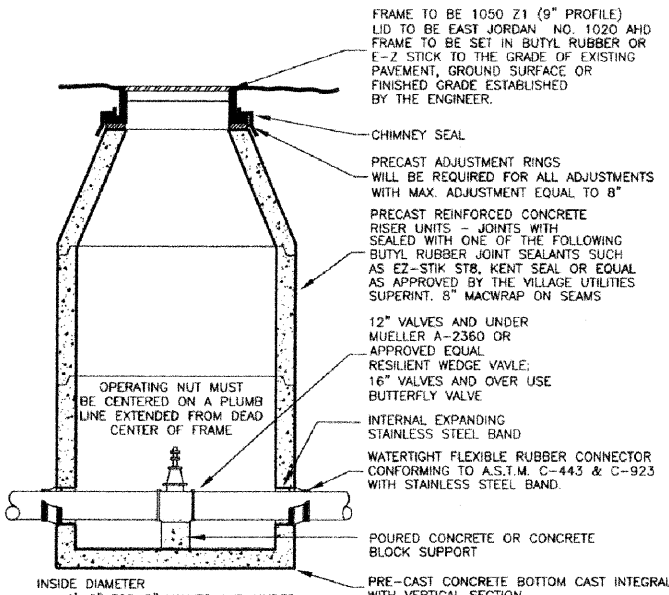
F.A.U. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	07-00072-00-PV	McHENRY	80	73
ILLINOIS PROJECT				
CONTRACT NO. 63137				

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 FENCO, 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.

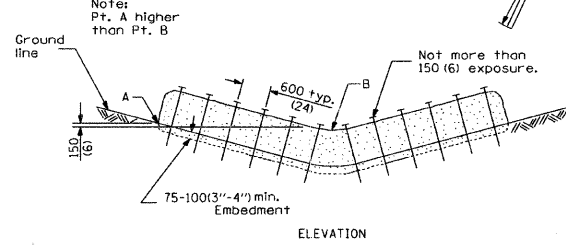
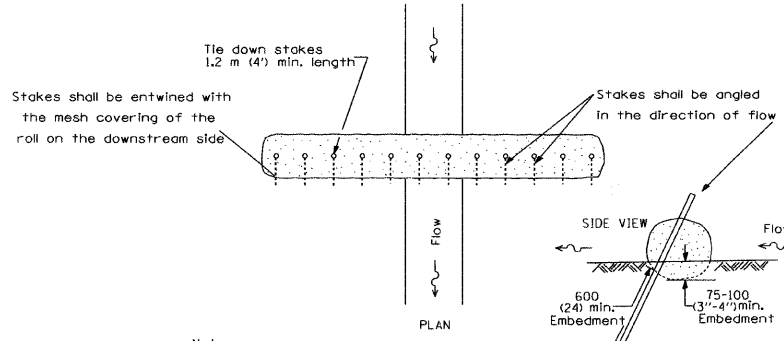


SANITARY SERVICE

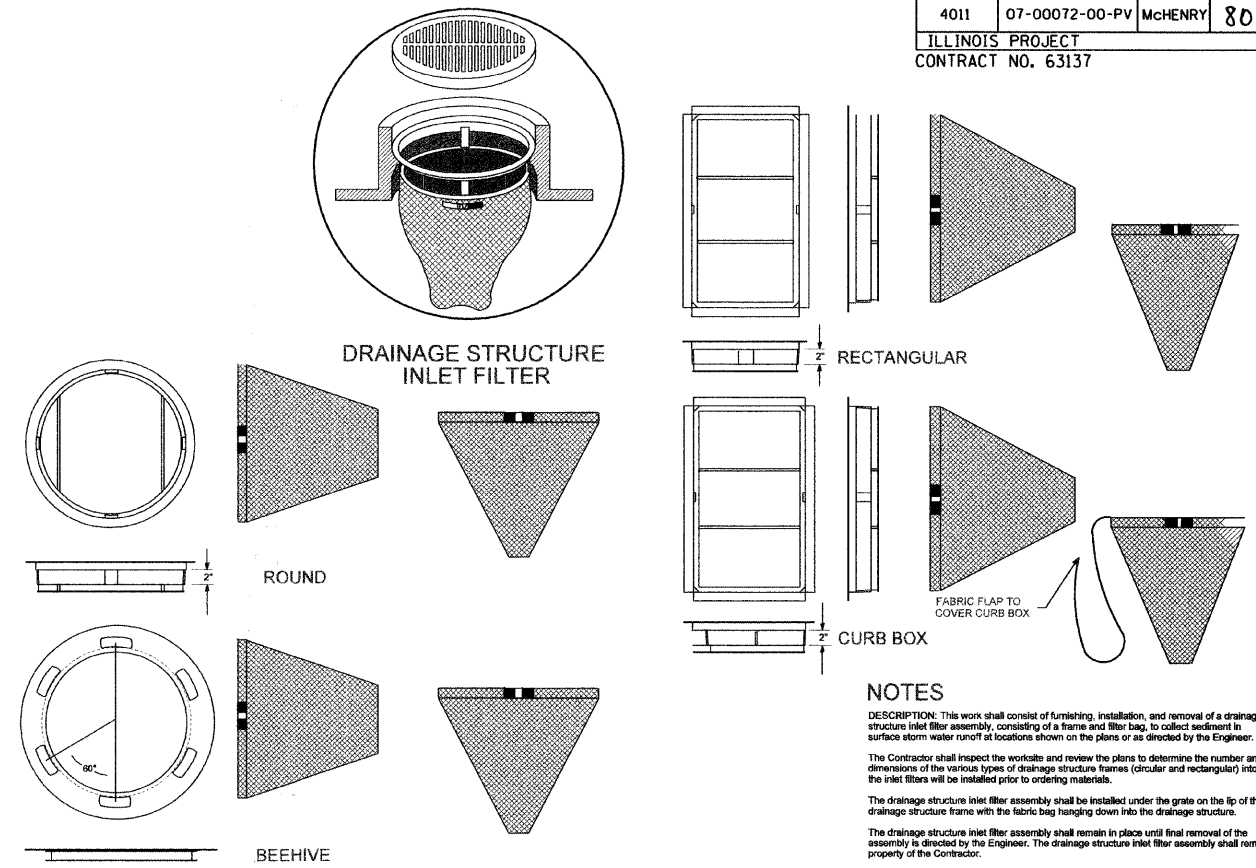


NOTE:
ALL VALVES SHALL BE ENCLOSED IN A VAULT UNLESS OTHERWISE SPECIFIED AT MAX. OF 1000 FEET INTERVALS
STRUCTURE TO BE BITUMINOUS COATED

VALVE VAULT



ROLLED EXCELSIOR FOR DITCH CHECK



NOTES

DESCRIPTION: This work shall consist of furnishing, installation, and removal of a drainage structure inlet filter assembly, consisting of a frame and filter bag, to collect sediment in surface storm water runoff at locations shown on the plans or as directed by the Engineer.

The Contractor shall inspect the work site and review the plans to determine the number and dimensions of the various types of drainage structure frames (circular and rectangular) into which the inlet filters will be installed prior to ordering materials.

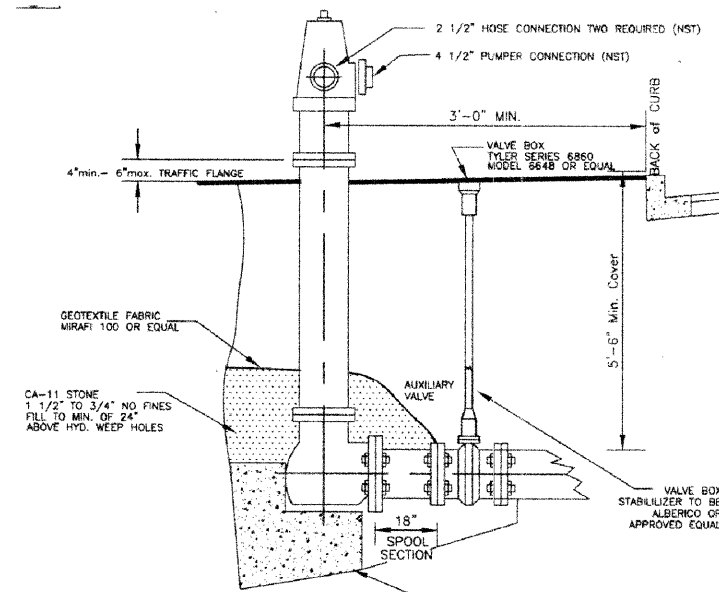
The drainage structure inlet filter assembly shall be installed under the grate on the lip of the drainage structure frame with the fabric bag hanging down into the drainage structure.

The drainage structure inlet filter assembly shall remain in place until final removal of the assembly is directed by the Engineer. The drainage structure inlet filter assembly shall remain the property of the Contractor.

Final removal of the assembly shall include the disposal of debris or silt that has accumulated in the filter bag at the time of final removal. Periodic cleaning of the filter is paid for separately.

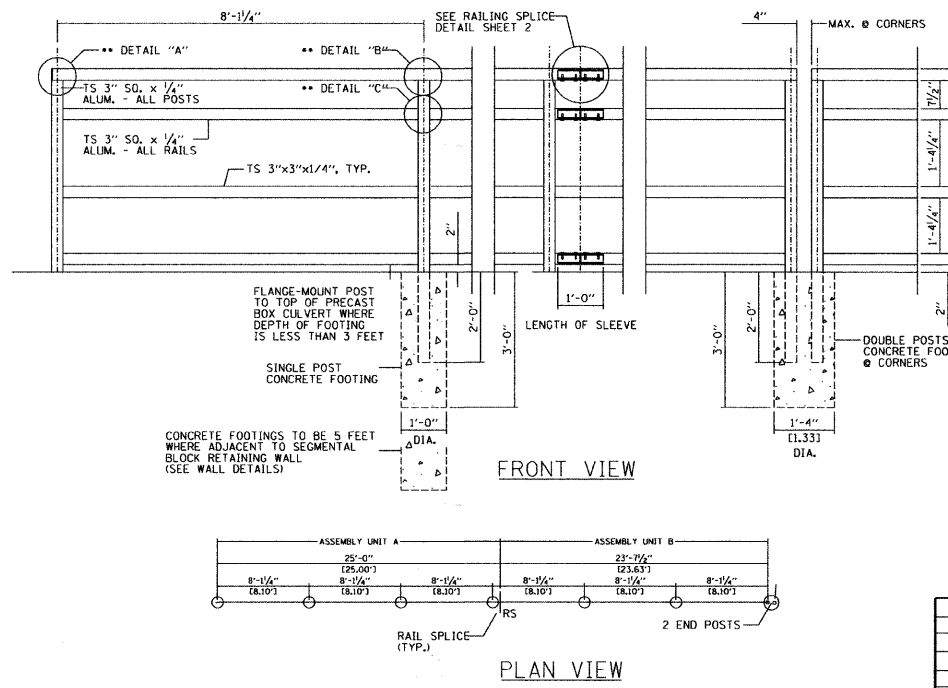
MATERIALS: The drainage structure inlet shall be the (INLET AND PIPE PROTECTION), as furnished by Marathon Materials, Inc. 2523 W. Shultz St., Plainfield, IL 60544. (800) 953-9463, or approved equal. A detailed drawing in the plans depicts the drainage structure inlet filter assembly.

The drainage structure inlet filter assembly shall consist of a steel frame with a replaceable geotextile fabric bag attached with a steel band with locking cap that is suspended from the frame. A clean used bag and used steel frame in good condition, meeting the approval of the Engineer, may be substituted for new materials.



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 WATEROUS PACER W867-250 WITH TRAFFIC FLANGE
ALL JOINTS SHALL BE RESTRAINED JOINTS MEG-A-LUG TYPE

HYDRANT WITH AUXILIARY VALVE AND VALVE BOX



BICYCLE RAILING DETAIL

DESIGN NOTES:

- RAILING SHALL BE ACCORDING TO SECTION 509 OF THE IDOT STANDARD SPECIFICATIONS, EXCEPT AS NOTED AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR BICYCLE RAILING.
- ALL TUBING WILL BE ALUMINUM ALLOY 6063-T52
- ALL DIMENSIONS ARE IN FEET AND INCHES EXCEPT AS NOTED.
- ALL POSTS, RAILING SHALL BE PAINTED IN ACCORDANCE WITH SECTION 506 OF THE IDOT STANDARD SPECIFICATIONS.
- ALL RAIL WILL BE SANDBLASTED PER SSPC-SP6 FOLLOWED BY SHOP APPLIED PRIMER AND TOP COAT AS FOLLOWS:
3.00 MILS DFT THEMEC 66-HI BUILD EPOXYLINE EPOXY INTERMEDIATE COAT,
2.00 MILS DFT THEMEC 73-COLOR ALIPHATIC ACRYLIC POLYURETHANE TOP COAT - BLACK.
- ALL BOLTS, NUTS AND WASHERS SHALL BE STAINLESS STEEL.
- SHOP DRAWINGS BASED ON INDIVIDUAL PROJECT PLAN VIEW LOCATIONS MUST BE SUBMITTED TO THE RESIDENT ENGINEER FOR APPROVAL.
- DOUBLE POSTS @ CORNERS ARE INTENDED TO CHANGE HORIZONTAL ALIGNMENT ONLY. DO NOT USE THESE TO CHANGE VERTICAL ALIGNMENT.

REVISIONS		NAME	DATE	HANSON ROAD IMPROVEMENTS EDGEWOOD TO HUNTINGTON
NO.	DESCRIPTION			
				CONSTRUCTION DETAILS
				DATE: 03-27-09
				DRAWN BY: AJR CHECKED BY: MAY
				GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC. CHICAGO, ILLINOIS

AQUA-BARRIER STANDARD HEIGHTS & DIMENSIONS

INFLATED HEIGHT (FT)	LAYFLAT WIDTH EMPTY (FT)	LAYFLAT WIDTH INFLATED (FT)	GALLONS PER LINEAR FOOT	100 FT SECTION WEIGHT	MAXIMUM**DEPTH OF WATER (IN)
2 (22 OZ) (30 OZ)	5	4	60	188 320	18
3 (22 OZ) (30 OZ)	8.5	7	158	270 516	27
4 (22 OZ) (30 OZ)	12	10	256	392 600	36
5 (30 OZ)	15	12.5	390	931	45
6 (30 OZ)	18	15	564	1098	54
7 (30 OZ)	21	17.5	770	1224	63
8 (30 OZ)	24	20	1007	1620	72

** THIS DEPTH OF WATER REPRESENTS 75% OF THE HEIGHT OF A FULLY INFLATED AQUA-BARRIER. IT IS REQUIRED THAT A MINIMUM 25% FREEBOARD CAPACITY BE MAINTAINED DURING ALL PHASES OF A PROJECT. EXCESS SLOPE AND GRADE, SOIL COMPOSITION, MOVING WATER, AND RELATED HYDROLOGICAL CRITERIA MAY INCREASE OR DECREASE THE ABILITY OF AN AQUA-BARRIER TO PERFORM AS PROJECTED.

WATER INFLATED DAM
PRODUCT SPECIFICATION
(AQUA-BARRIER™ OR EQUIVALENT)

- 1.1 SPECIFICATION**
A WATER-INFLATED TEMPORARY DAM (AQUA-BARRIER™ OR EQUIVALENT) SHALL CONSIST OF THE FOLLOWING:
- 1) THE WATER INFLATED DAM WILL CONSIST OF A SELF CONTAINED, SINGLE TUBE WITH AN INNER RESTRAINT BAFFLE(S)/DIAPHRAGM(S) STABILIZATION SYSTEM. THE WATER-INFLATED DAM MUST HAVE THE ABILITY TO STAND ALONE, WITHOUT ANY ADDITIONAL EXTERNAL MECHANICAL OR GRAVITATIONAL STABILIZATION DEVICES, AS A POSITIVE WATER BARRIER AND WATER MANAGEMENT SYSTEM.
 - 2) THE WATER-INFLATED DAM SHALL BE PRODUCED FROM HEAVY GAUGE POLYVINYL CHLORIDE (PVC) REINFORCED WITH POLYESTER. THE PVC FABRIC USED TO CREATE THE INFLATABLE DAM WILL BE INFELD REPAIRABLE UTILIZING A VINYL ADHESIVE AND PATCH MATERIAL.
 - 3) THE WATER-INFLATED DAM MUST MAINTAIN MECHANICAL STABILITY IN ADDITION TO PROVIDING ANTI-ROLLING WHEN EXPOSED TO UNEVEN HYDROSTATIC PRESSURE FROM EITHER SIDE.
 - 4) THE SELF-CONTAINED WATER INFLATED DAM SHALL HAVE THREADED FILL PORTS AND DRAIN PORTS FOR RAPID INFLATION AND DRAINING. THE DAM WILL BE EQUIPPED WITH END LIFTING LOOPS USED TO CONTROL THE DAM WITH EQUIPMENT DURING THE INSTALLATION AND REMOVAL PROCESS.
 - 5) METHOD FOR CONNECTING THE INDIVIDUAL UNITS TOGETHER WILL CONSIST OF OVERLAPPING THE END OF THE UNITS A SPECIFIC LENGTH WHICH WILL CREATE A WATERTIGHT CONNECTION. NO OTHER DEVICES OR METHODS FOR CONNECTING THE BARRIERS ARE REQUIRED.

1.2 PRODUCT DESCRIPTION
WATER-INFLATED DAMS ARE USED TO CONTROL INVASIVE WATER IN FLOODWATER SITUATIONS, AS A MEANS OF WATER MANAGEMENT TO PROVIDE ACCESS TO UNDERWATER AREAS FOR CONSTRUCTION AND MAINTENANCE OPERATIONS, HAZARDOUS LIQUID CONTAINMENT, SEDIMENT RETENTION IN ENVIRONMENTALLY SENSITIVE AREAS IN ADDITION TO A CONTINUALLY EXPANDING LIST OF WATER CONTROL RELATED APPLICATIONS.

- 1.3 DAM SIZE REQUIREMENTS**
- THE WATER-INFLATED TEMPORARY DAM HEIGHT SHALL BE DETERMINED AS FOLLOWS:
- 1) STATIC WATER HEIGHT. CONDITIONS SHALL NOT EXCEED 75% OF THE PROPERLY FILLED HEIGHT OF THE BARRIER.
 - 2) DYNAMIC WATER HEIGHT CONDITIONS SHALL NOT EXCEED STATED VALUE DURING HYDRODYNAMIC INSTALLATION PROCEDURES (SEE DYNAMIC INSTALLATION INSTRUCTIONS FOR COMPLETE LIST OF REQUIREMENTS.)
 - 3) INSTALLATION SITE CRITERIA ARE REQUIRED FOR ASSESSMENT OF ALL RELEVANT FACTORS.

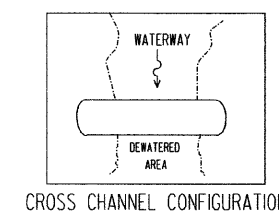
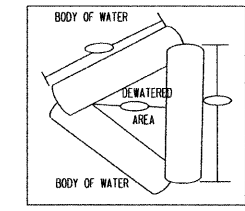
EXCESS SLOPE, HIGH WATER VELOCITIES, DYNAMIC LOADS RESULTING FROM WAVE ACTIONS, MOUNTING SURFACE IRREGULARITIES, AND CHANGES IN INTERRELATED HYDROLOGICAL CONDITIONS CAN INCREASE THE REQUIRED WATER INFLATED DAM HEIGHT VERSUS RETENTION HEIGHT REQUIREMENTS.

WATER-INFLATED DAM CONNECTION REQUIREMENTS

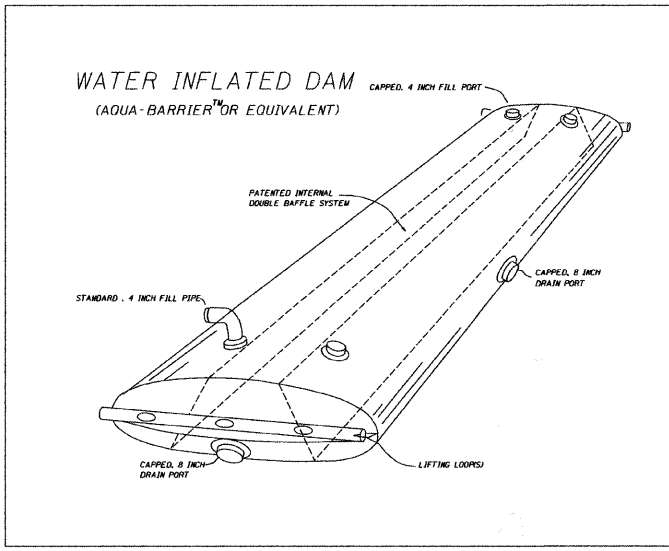
EACH INFLATED SECTION IS STRAIGHT WITHOUT THE ABILITY TO BEND. WHEN JOINING SECTIONS, AN OVERLAPPING TECHNIQUE IS USED. SIMPLY PLACE THE SECTION TO BE INFLATED ON TOP OF THE END OF THE INFLATED SECTION AND BEGIN THE INFLATION PROCESS. THE AMOUNT OF OVERLAP WILL BE DETERMINED BY BARRIER HEIGHT.

WHEN CONNECTING SECTIONS A MINIMUM OF 8 FT TO 12 FT LOSS OF BARRIER LENGTH WILL BE EXPERIENCED. ALLOWANCES SHOULD BE MADE FOR THE LOSS IN LENGTH OF THE SECTIONS DUE TO THE OVERLAP CONNECTION.

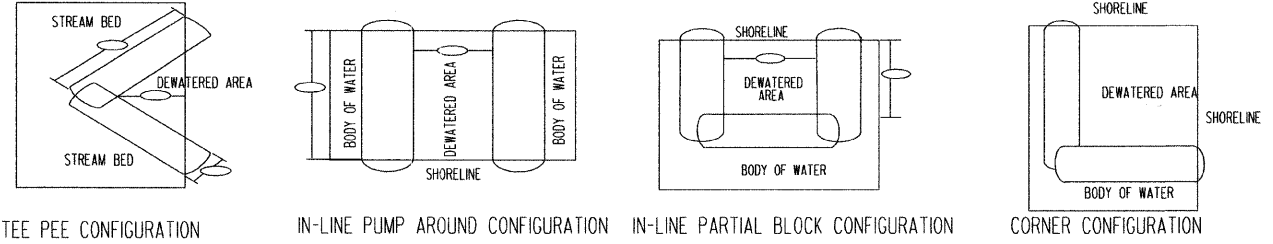
INFLATED HEIGHT (FT)	OVERLAP LENGTH (FT)
2	3
3	4.5
4	6
5	7.5
6	9
7	10.5
8	12



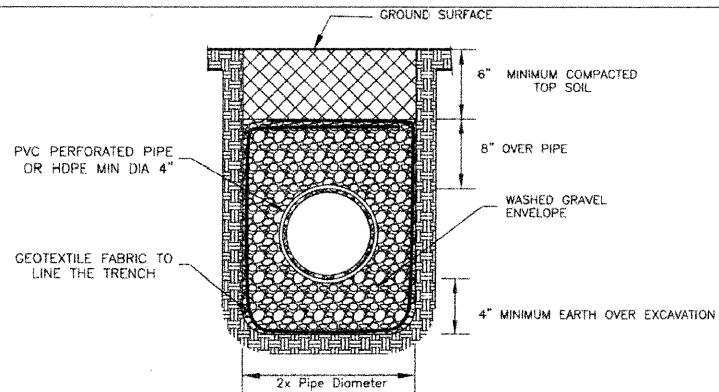
BRIDGE PIER CONFIGURATION



WATER INFLATED DAM
(AQUA-BARRIER™ OR EQUIVALENT)



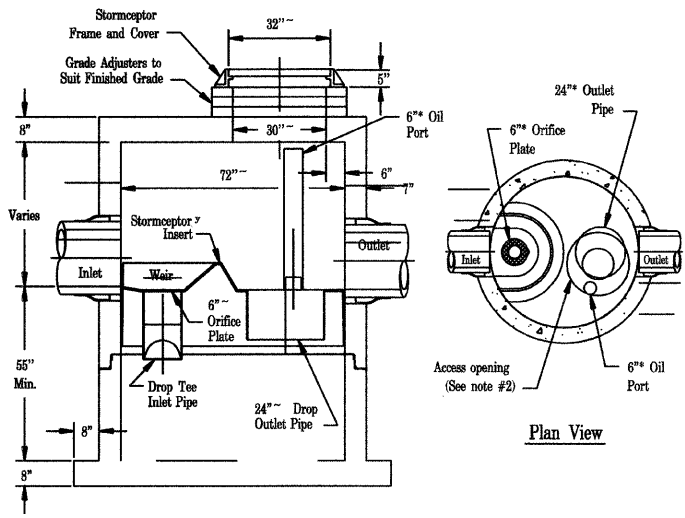
TEE PEE CONFIGURATION IN-LINE PUMP AROUND CONFIGURATION IN-LINE PARTIAL BLOCK CONFIGURATION CORNER CONFIGURATION



DRAIN TILE
TRENCH DETAIL

NOTE: LOCATE DRAIN TILE TO AVOID CONFLICT DURING GUARD RAIL INSTALLATION

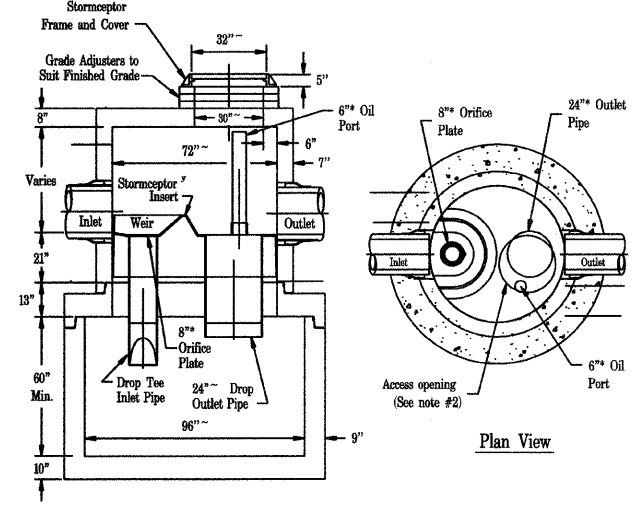
STC 900 Precast Concrete Stormceptor
(900 U.S. Gallon Capacity)



Section Thru Chamber

- Notes:**
1. The Use Of Flexible Connection is Recommended at The Inlet and Outlet Where Applicable.
 2. The Cover Should be Positioned Over The Outlet Drop Pipe and The Oil Port.
 3. The Stormceptor System is protected by one or more of the following U.S. Patents: #4985148, #5498331, #5725760, #5753115, #5849181, #6068765, #6371690.
 4. Contact a Concrete Pipe Division representative for further details not listed on this drawing.

STC 2400 Precast Concrete Stormceptor
(2400 U.S. Gallon Capacity)



Section Thru Chamber

- Notes:**
1. The Use Of Flexible Connection is Recommended at The Inlet and Outlet Where Applicable.
 2. The Cover Should be Positioned Over The Outlet Drop Pipe and The Oil Port.
 3. The Stormceptor System is protected by one or more of the following U.S. Patents: #4985148, #5498331, #5725760, #5753115, #5849181, #6068765, #6371690.
 4. Contact a Concrete Pipe Division representative for further details not listed on this drawing.

REVISIONS	
NAME	DATE

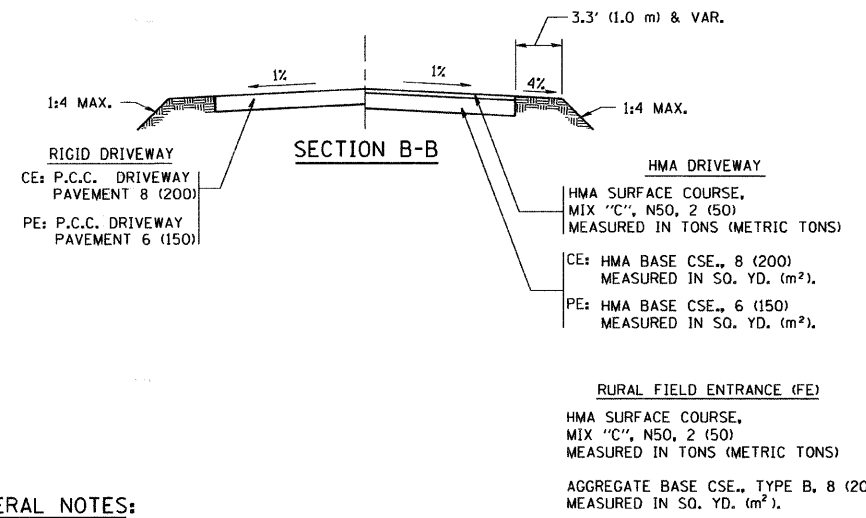
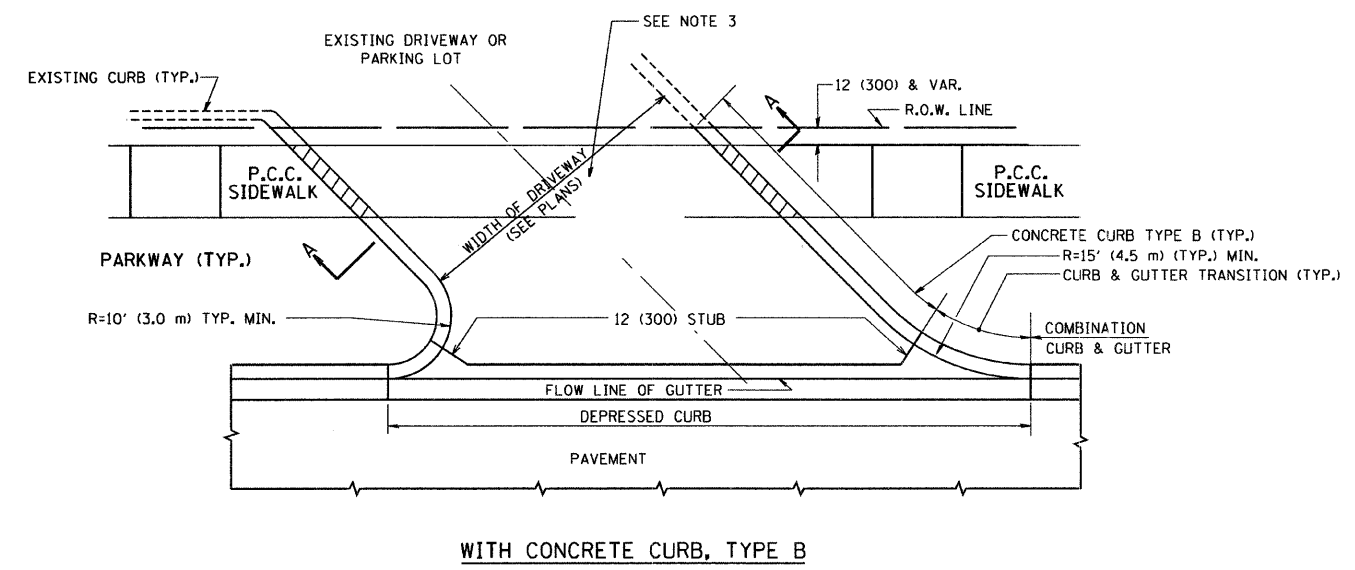
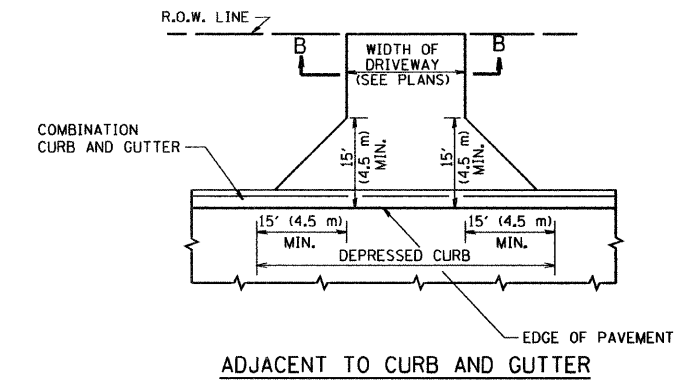
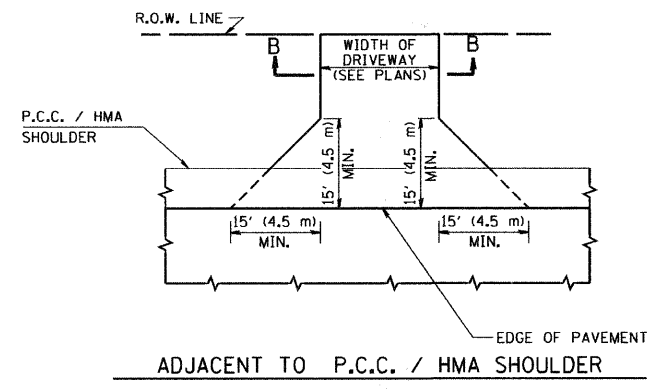
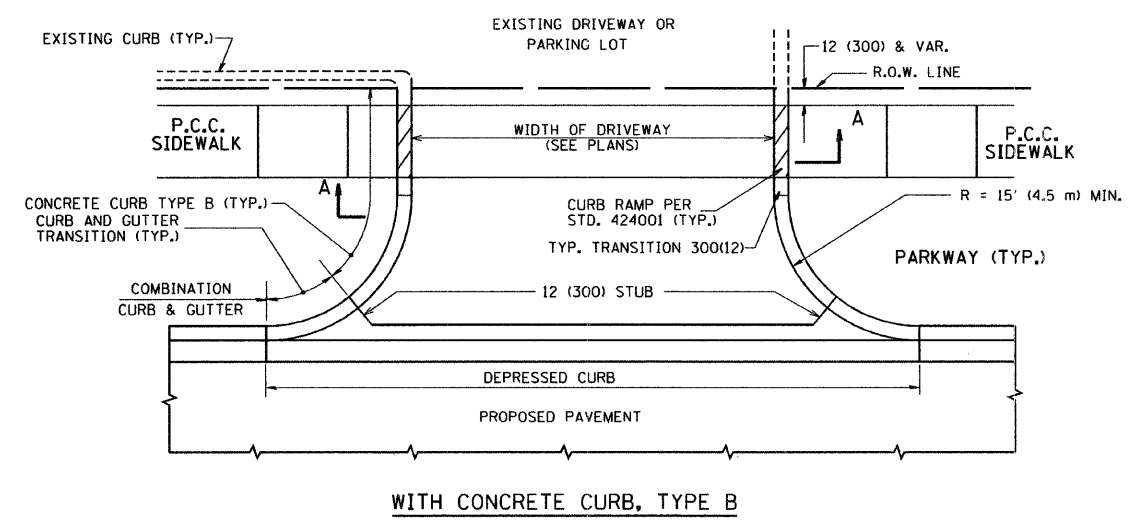
HANSON ROAD IMPROVEMENTS
EDGEWOOD TO HUNTINGTON

CONSTRUCTION DETAILS

DATE: 02-19-09 DRAWN BY: AJR CHECKED BY: MAY

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4011	07-0007-01	MCHEMRY	80	75
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

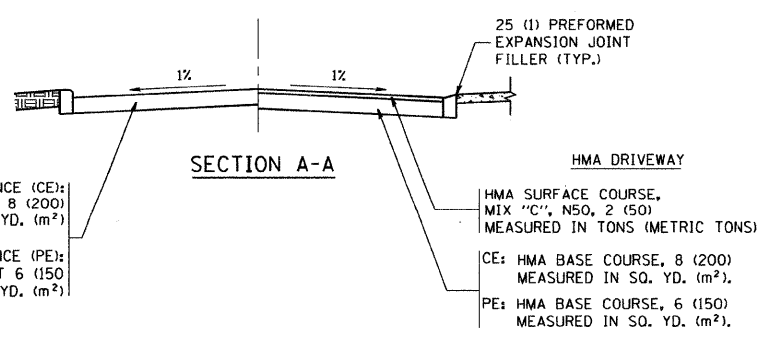
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.



ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

REVISIONS	
NAME	DATE
R. SHAH	11-04-95
J. POLLASTRINI	08-12-96
J. POLLASTRINI	12-14-96
A. ABBAS	03-21-97
T. HOLTZ	04-08-97
M. GOMEZ	04-06-01
P. LoFLEUR	04-15-03
R. BORO	01-01-07
R. BORO	06-11-08

ILLINOIS DEPARTMENT OF TRANSPORTATION

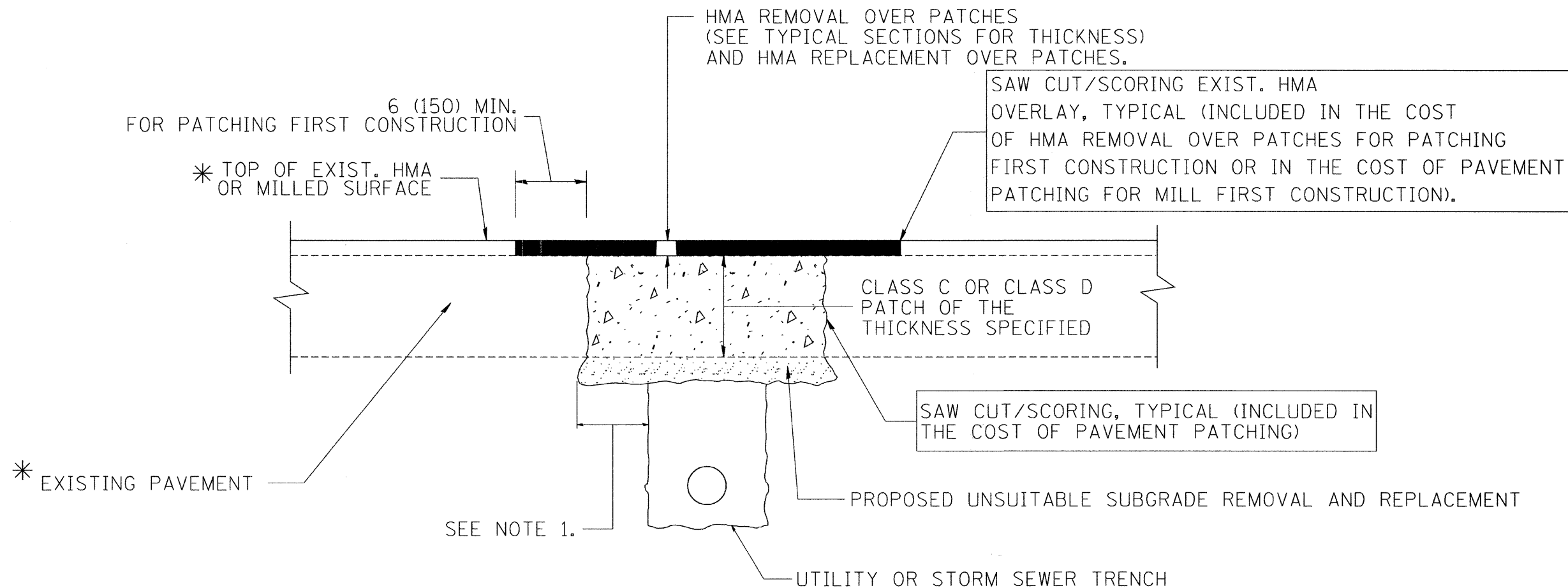
DRIVEWAY DETAILS

DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)

SCALE: VERT. NONE
HORIZ.

DRAWN BY
CHECKED BY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
491	07-00072-00-PV	McHENRY	80	76
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

REVISIONS	
NAME	DATE
R. SHAH	01/14/95
R. SHAH	03/23/95
R. SHAH	04/24/95
A. HOUSEH	03/15/96
A. ABBAS	03/21/97
A. ABBAS	01/20/98
ART ABBAS	04/27/98
R. BORO	01/01/07
R. BORO	09/04/07
K. ENG	10/27/08

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

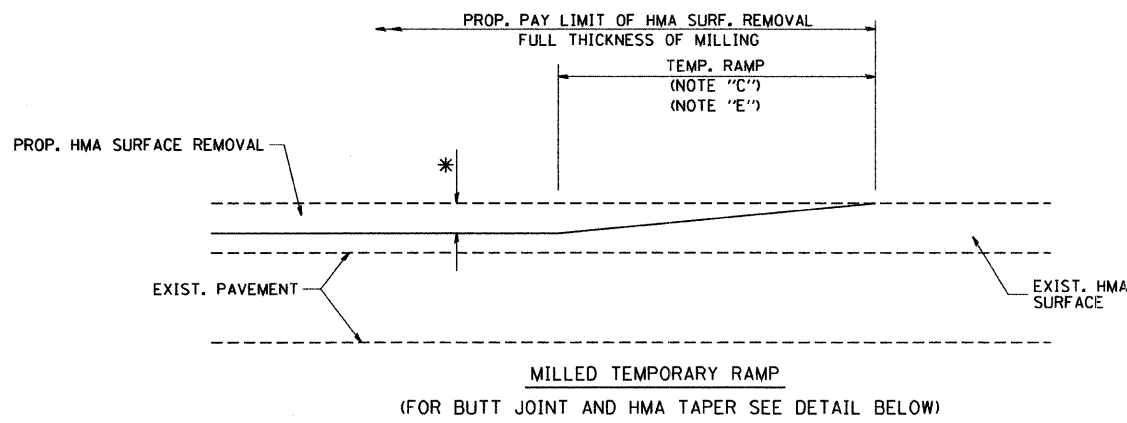
SCALE: VERT. NONE
HORIZ.

DRAWN BY

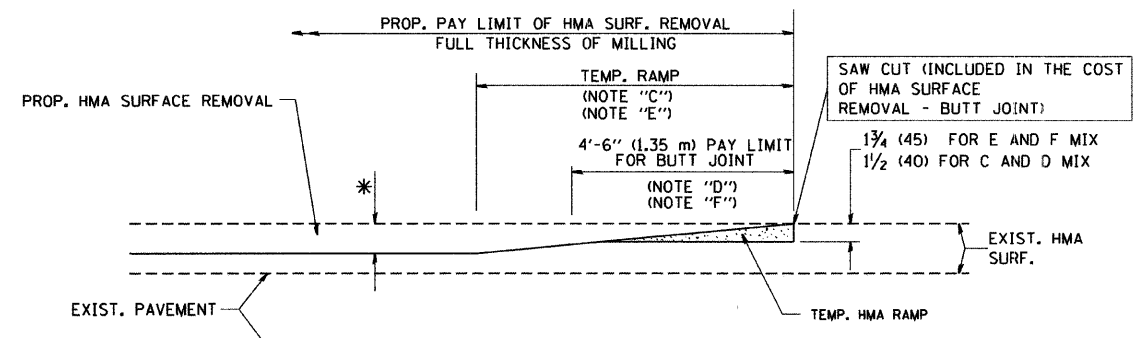
CHECKED BY

BD400-04 (BD-22)

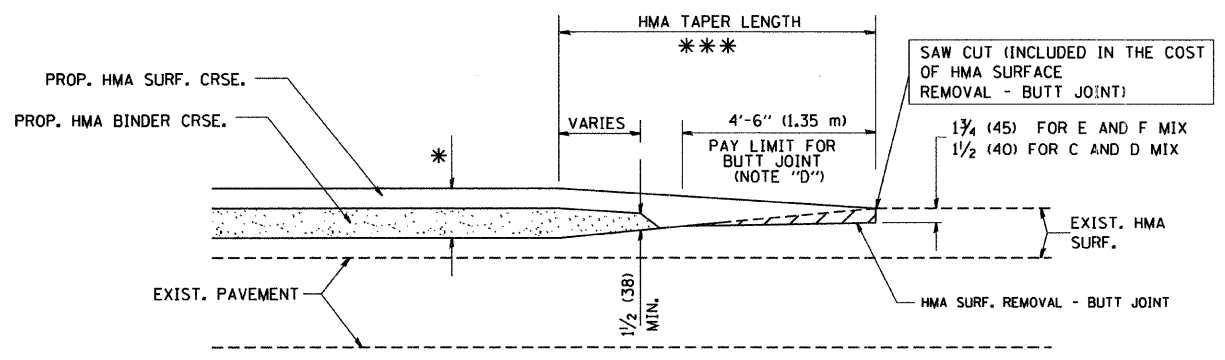
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
401	07-0072-00-PV	McHENRY	80	77
STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		



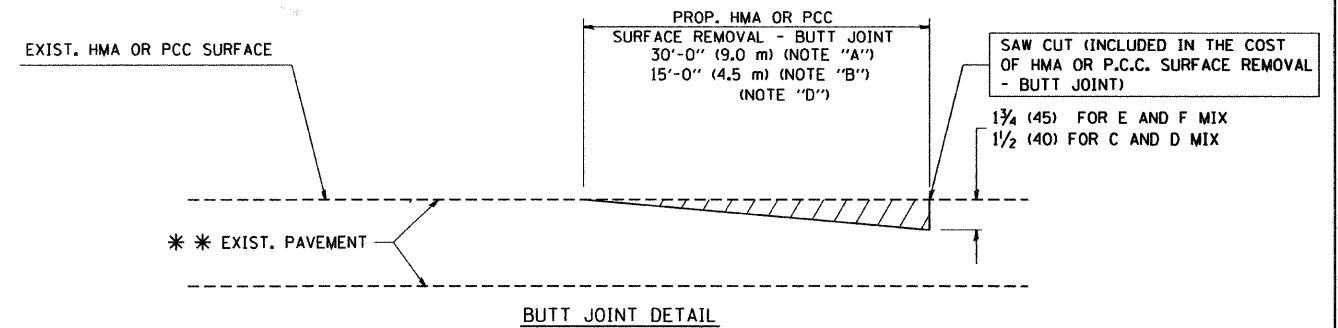
OPTION 1



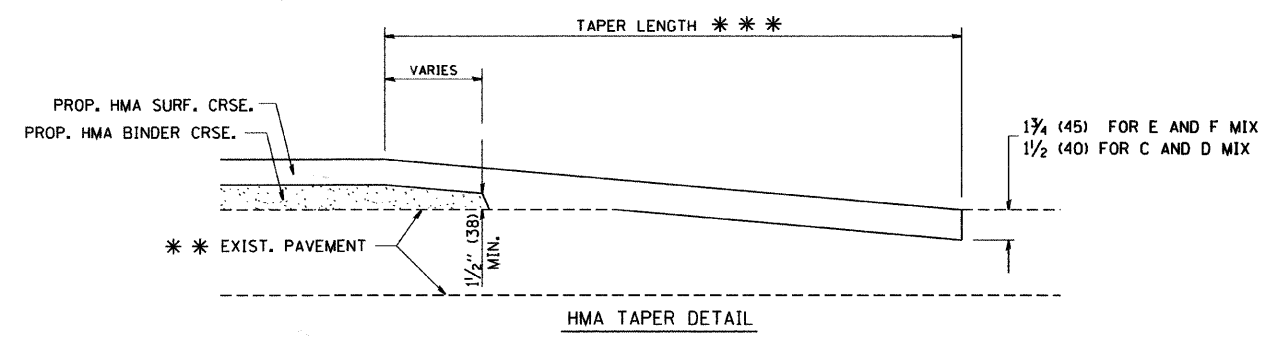
OPTION 2
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING



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.

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.

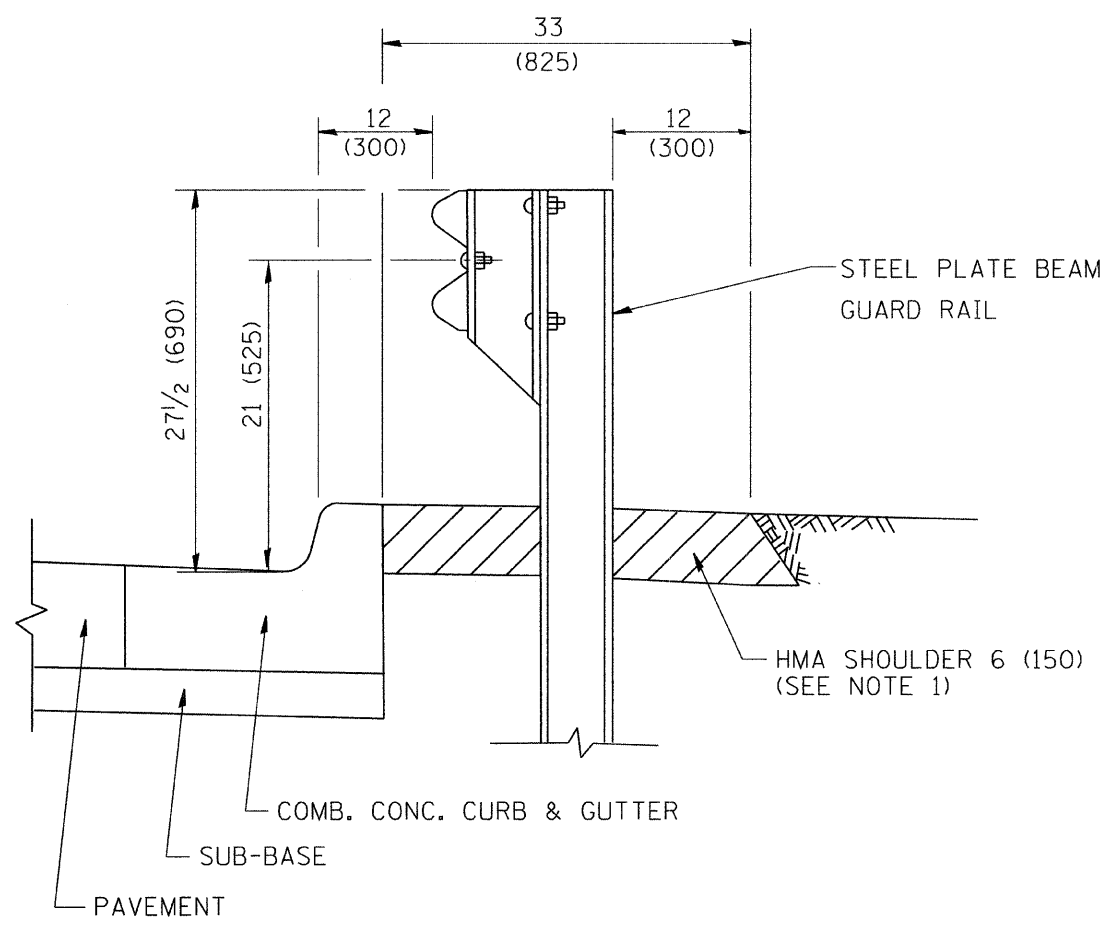
DRAWN BY

CHECKED BY

BD400-05 (VI-BD32)

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USER NAME = bward

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



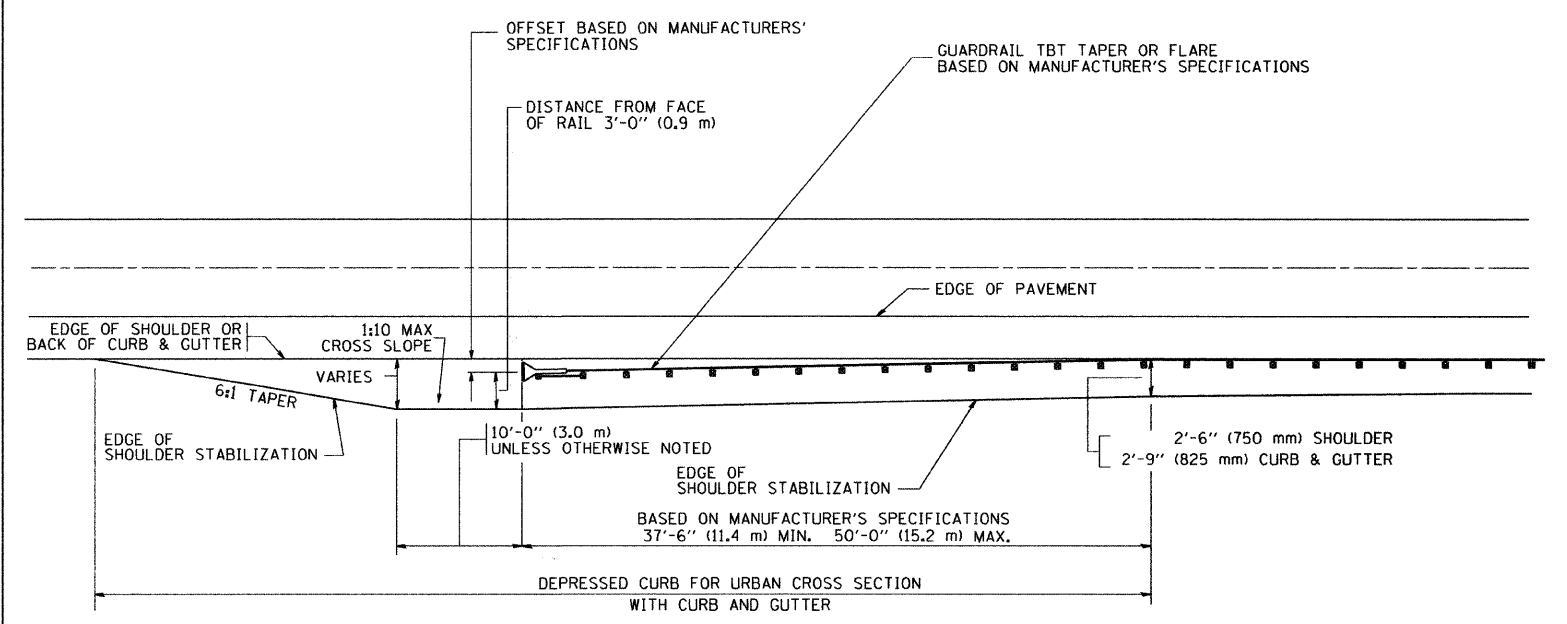
- NOTES: 1. THE HMA SHOULDER SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL
2. GUARD RAIL MAY BE PLACED AT THE BACK OF CURB WHEN DIRECTED BY THE ENGINEER.

BASIS OF PAYMENT: HMA SHOULDER 6 (150) WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SHOULDER 6" (150 mm)".

STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT TO CURB AND GUTTER
 [FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]

PLOT DATE = 12/17/2008
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 USER NAME = geglennob



STABILIZATION AT TBT TY. 1 SPL.

TBT = TRAFFIC BARRIER TERMINAL
 ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
M. DE YONG	09-22-90
M. DE YONG	07-14-92
R. SHAH	09/09/94
R. SHAH	10/25/94
R. SHAH	02/23/95
A. ABBAS	03/21/97
E. GOMEZ	08/28/00
R. BORO	01/01/07

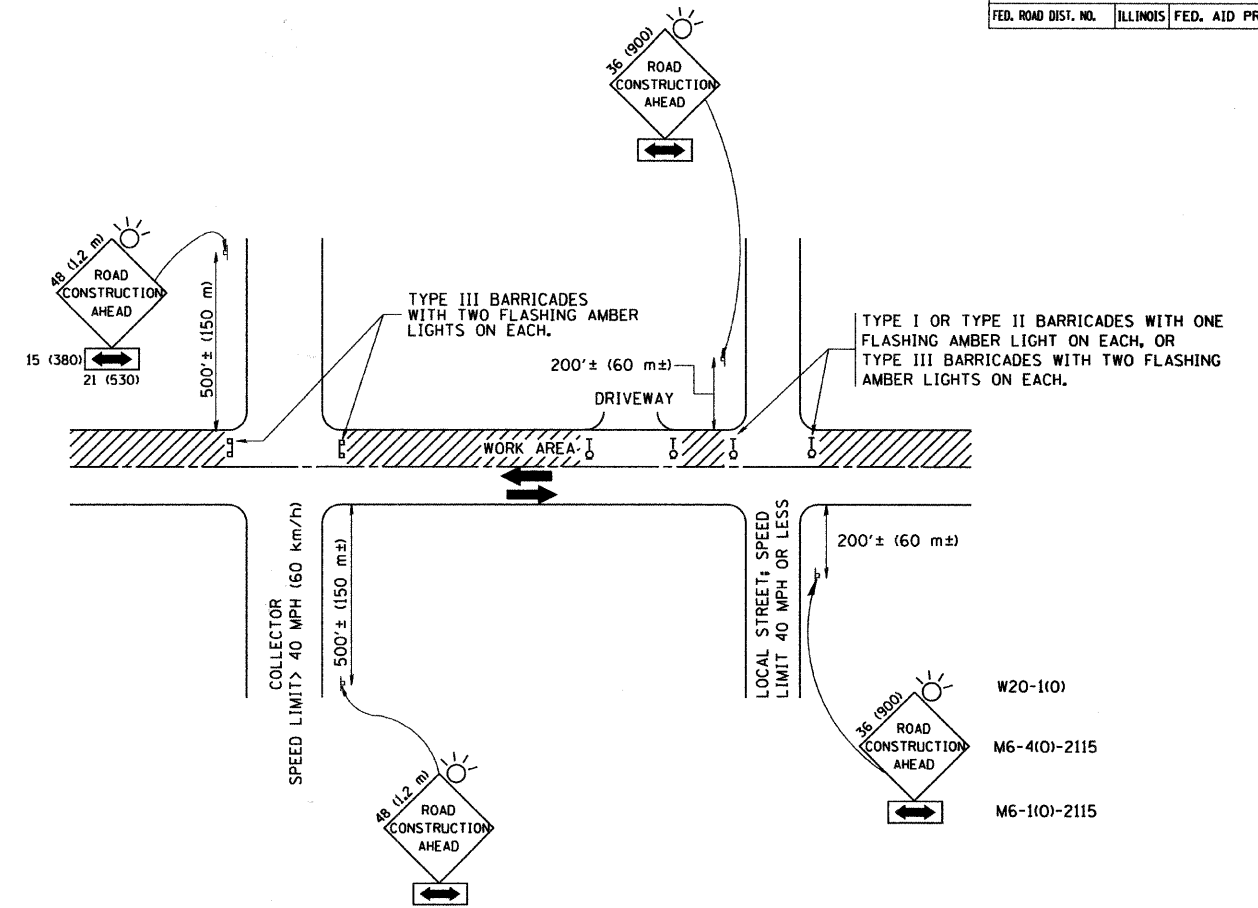
ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT TO CURB AND GUTTER STABILIZATION AT TBT TY 1 SPL.

SCALE: VERT. NONE
 HORIZ. NONE

DRAWN BY Jls
 CHECKED BY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
401	07-0072-00-N	McHENRY	80	79
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
 1. 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:
 - a) 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.
 - b) 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.
 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) 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.
 - b) 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.
 3. 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.

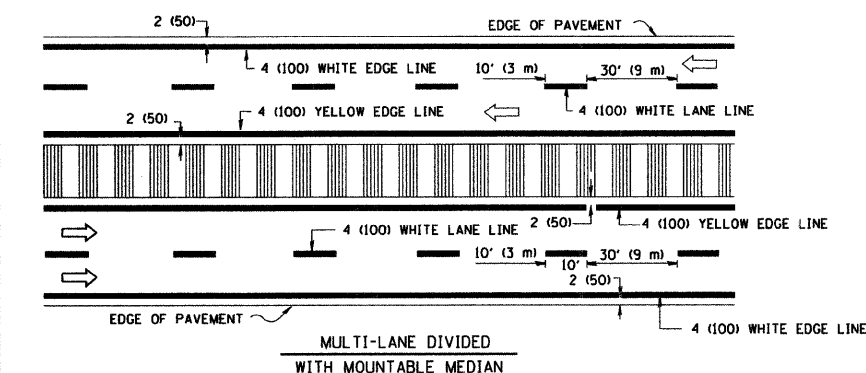
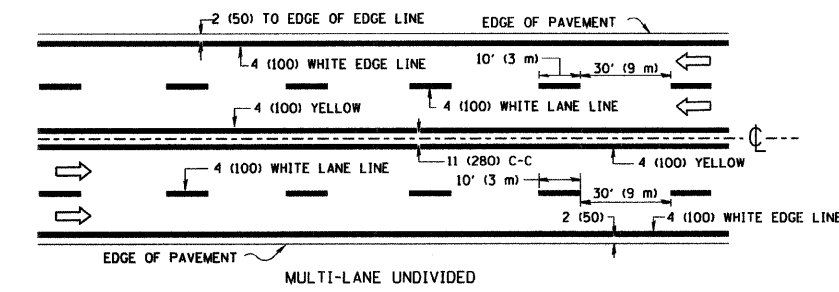
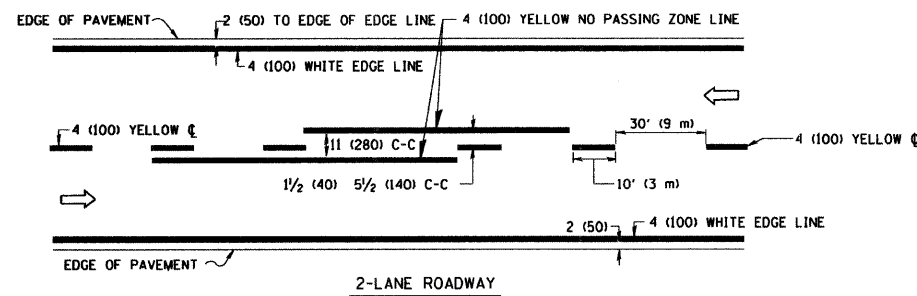
REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

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

SCALE: NONE
 DRAWN BY
 CHECKED BY
 TC-10

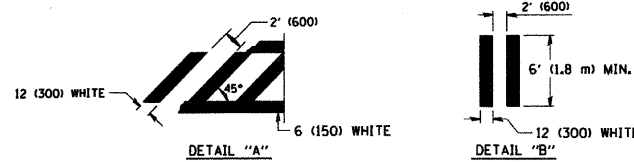
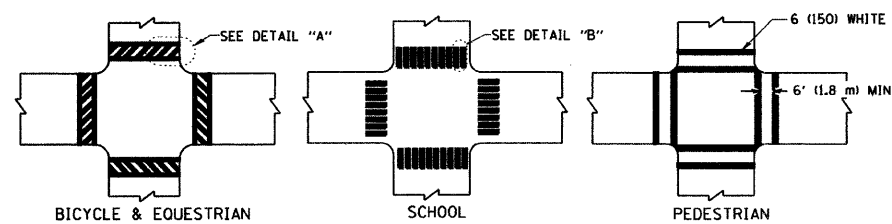
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 USER NAME = bward

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
401	07-00072-00-FV	McHENRY	90	80
STA. TO STA.		ILLINOIS FED. AID PROJECT		

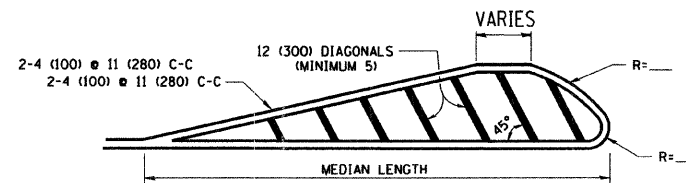
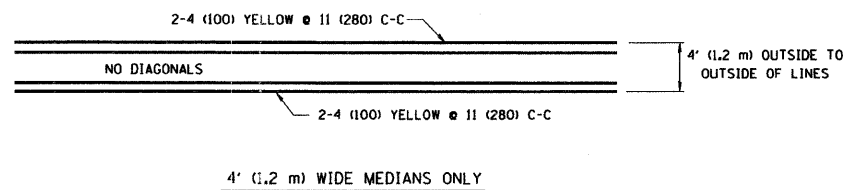


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

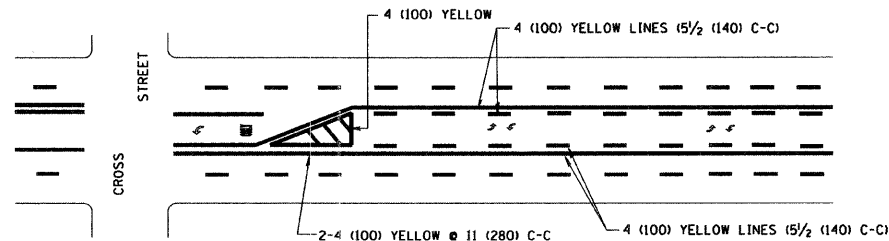


TYPICAL CROSSWALK MARKING

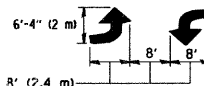


FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.
 DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

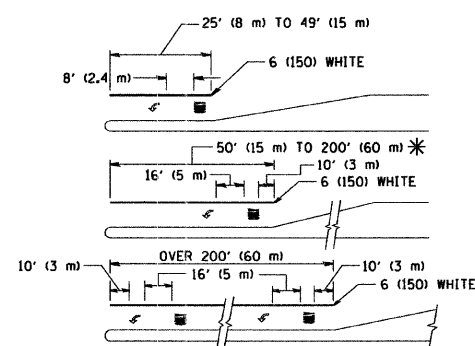


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

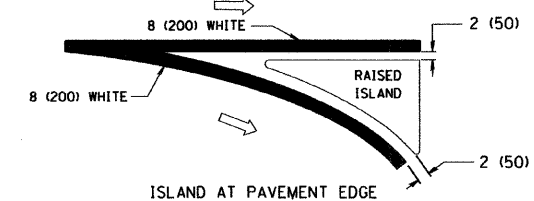
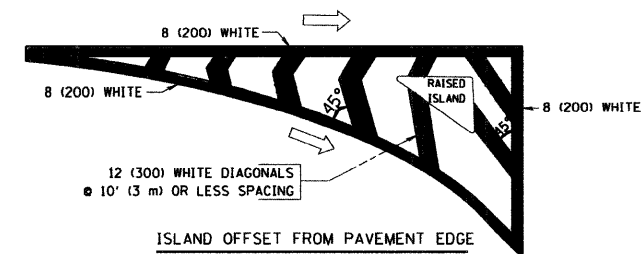


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 * AREA = 15.6 SQ. FT. (1.5 m²) ; □ AREA = 20.8 SQ. FT. (1.9 m²)

* 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 LEFT (OR RIGHT) TURN LANE

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 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. 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