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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

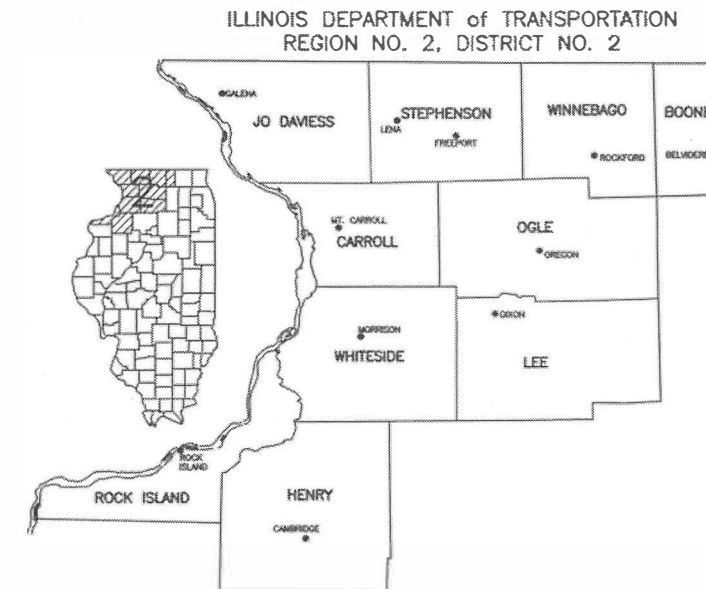
# SIDEWALK IMPROVEMENTS

FOR

## VILLAGE OF LENA

### LENA, IL

LENA STREET  
SECTION: 17-00028-00-SW  
STEPHENSON COUNTY  
PROJECT NUMBER: VCR7(022)  
JOB NUMBER: C-92-066-18  
CONTRACT NUMBER: 85669



PLAN & PROFILE



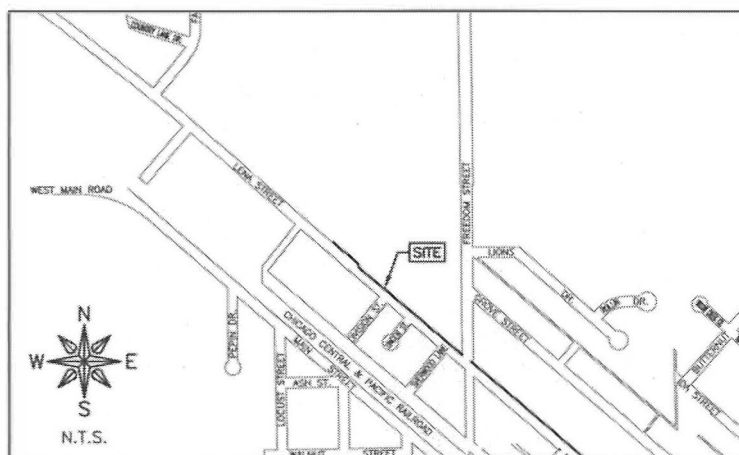
CROSS SECTIONS

STATE STANDARDS

- 424001-10 PERPENDICULAR CURB RAMPS
- 608001-07 CONCRETE TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
- 701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600mm) FROM PAVEMENT EDGE
- 701011-04 OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701801-06 SIDEWALK, CORNER, OR CROSSWALK CLOSURE
- 701901-07 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-04 SIGN PANEL ERECTION DETAILS
- 720011-01 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGN MARKERS)

DISTRICT 2 STANDARDS

- 35.4 SIDEWALK AND DRIVEWAY PAVEMENT PAY AREA
- 64.2 PIPE HANDRAIL, SPECIAL - FOR RETAINING WALLS



LOCATION MAP

PROJECT LENGTH = 1.498' (0.28 MILES)  
FUNCTIONAL CLASS: MAJOR COLLECTOR  
ADT: LENA STREET = 3,150 (2.0% TRUCKS)

# FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

ILLINOIS IOWA WISCONSIN

ILLINOIS PROFESSIONAL DESIGN FIRM NUMBER: 184003525

APPROVED 3-13 2018  
*Dani Bergman*  
VILLAGE OF LENA

PASSED 4/19 2018  
*Andy M. Bartsch*  
DISTRICT ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW 4-18- 2018  
*K. Mankel*  
DEPUTY DIRECTOR OF HIGHWAYS/REGION 2 ENGINEER



3-13-18  
SIGNATURE DATE

| ORIGINAL SET FOR PROJECT: 14-785 |             | DATE CREATED: 3/13/18 |
|----------------------------------|-------------|-----------------------|
| REVISIONS                        |             |                       |
| REV. NO.                         | DESCRIPTION | DATE                  |
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| UTILITIES     |                 |
|---------------|-----------------|
| UTILITY TYPE  | COMMON NAME     |
| WATER & SEWER | VILLAGE OF LENA |
| ELECTRIC      | COMED           |
| TELEPHONE     | FRONTIER        |
| GAS           | NICOR           |
| CABLE         | MEDIA COM       |

(CONTRACTOR TO BE RESPONSIBLE FOR ANY ADJUSTMENTS TO BE MADE.)

**GENERAL NOTES**

- THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MUNICIPAL CODE, VILLAGE OF LENA, ILLINOIS, CURRENT EDITION, THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", CURRENT EDITION, "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS," CURRENT EDITION, SPECIAL PROVISIONS AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", CURRENT EDITION. SIGN CONSTRUCTION AND PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", CURRENT EDITION.
- IN THESE CONTRACT DOCUMENTS MENTION IS MADE OF THE "ENGINEER", WHICH SHALL MEAN FEHR GRAHAM OR THEIR DULY AUTHORIZED AGENT. IN THESE CONTRACT DOCUMENTS MENTION IS MADE OF THE "OWNER", WHICH SHALL MEAN THE VILLAGE OF LENA, OR THEIR DULY AWARDED AGENT.
- AS PART OF THE BIDDING PROCEDURE, THE CONTRACTOR SHALL VERIFY THAT THE QUANTITIES FOR PAY ITEMS, AS PRESENTED IN THESE PLAN DOCUMENTS, ARE SUBSTANTIALLY CORRECT. IF DISCREPANCIES ARE DETECTED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE DISCREPANCY PRIOR TO THE BID DATE.
- QUANTITIES SHOWN ARE ESTIMATES FOR INFORMATION ONLY. PAYMENT WILL BE BASED ON ACTUAL QUANTITIES MEASURED IN THE FIELD OR ON PAYMENT LIMIT DETAILS.
- THE CONTRACTOR SHALL BE PAID FOR MATERIALS AND EQUIPMENT SUCCESSFULLY INSTALLED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AS MEASURED OR VERIFIED IN PLACE BY THE ENGINEER OR HIS AGENT.
- IN CASE OF CONFLICT BETWEEN THE ABOVE MENTIONED SPECIFICATIONS, THE ENGINEER SHALL DETERMINE WHICH OF THE SPECIFICATIONS SHALL GOVERN. THE ENGINEER'S DECISION SHALL BE FINAL AND NO ADDITIONAL COMPENSATION SHALL BE AWARDED UNLESS APPROVED BY THE ENGINEER.
- THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY THE OWNER. IMPROVEMENT REPRESENTATIONS AS SHOWN ON THESE PLANS, ARE AS ACCURATE AS POSSIBLE FROM THE INFORMATION AVAILABLE. HOWEVER SOME FIELD REVISIONS MAY BE REQUIRED TO ACCOMMODATE UNFORESEEN CIRCUMSTANCES - THE ENGINEER SHALL BE ADVISED OF ANY NECESSARY REVISIONS WITH SUFFICIENT LEAD TIME ALLOWED TO PROPERLY CONSIDER AND ACT UPON SAID REQUESTS. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED IN CONSTRUCTING THOSE IMPROVEMENTS AS DETAILED IN THIS ENGINEERING PLAN.
- THE ENGINEER SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE OR REJECT THE WORKMANSHIP AND/OR MATERIALS WHICH GO TO MAKE UP IMPROVEMENTS AS DETAILED IN THESE PLANS AND SPECIFICATIONS.
- GENERAL SAFETY PROVISION: TO PROVIDE DRIVERS WITH SAFE TRAVEL CONDITIONS DURING THE CONSTRUCTION PROJECT, AND TO PROVIDE SAFE WORKING CONDITIONS FOR ALL EMPLOYEES, THE RULES, REGULATIONS, AND CONDITIONS STATED BELOW WILL PREVAIL FOR THE DURATION OF THIS CONTRACT. ANY EMPLOYEE OF THE CONTRACTOR OR HIS SUBCONTRACTORS WHO REFUSES TO COMPLY WITH THESE GENERAL SAFETY PROVISIONS SHALL BE REMOVED FROM THE JOB SITE IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS. THE CONTRACTOR AND ANY SUBCONTRACTORS RETAINED BY HIM SHALL COMPLY WITH THE STATE AND FEDERAL REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA), JULY 1, 1987 AS IT RELATES TO CONTRACTOR'S OPERATIONS.
- THE CONTRACTOR SHALL COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION. THE CONTRACTOR WILL NOT BE ALLOWED TO BUILD FIRES ON THE SITE.
- THE SCALE SHOWN ON THE DRAWINGS APPLIES ONLY TO THE FULL SIZE PLANS NOT THE REDUCED SIZE PLANS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN DRAINAGE FLOWS AT ALL TIMES DURING THE PERFORMANCE OF THE WORK. METHODS USED BY THE CONTRACTOR SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. COST OF MAINTAINING DRAINAGE FLOWS SHALL BE INCIDENTAL TO THE CONTRACT.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED OR DISTURBED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS, MONUMENTS AND RIGHT-OF-WAY PINS UNTIL THE OWNER, AND AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS. REPLACEMENT OF MONUMENTS WILL BE DETERMINED BY THE ENGINEER.
- THE CONTRACTOR SHALL REMOVE, STORE, AND RELOCATE TO THE SATISFACTION OF THE ENGINEER ALL EXISTING SIGNAGE IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS, AND CONSIDER THIS AS INCIDENTAL TO THE CONTRACT.
- OUTSIDE THE EXISTING RIGHT-OF-WAY, THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATION NEAR ANY AND ALL EXISTING SIGNS OUTSIDE THE RIGHT-OF-WAY. ANY SIGNS REMOVED FOR CONSTRUCTION PURPOSES SHALL BE CAREFULLY REMOVED AND RE-ERECTED BY THE CONTRACTOR AT A LOCATION NEAREST TO THE ORIGINAL LOCATION, OR AT A LOCATION DETERMINED BY THE ENGINEER IN THE FIELD. REMOVAL AND RE-ERECTED SIGNS AND ANY DAMAGE DONE TO EXISTING SIGNS BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL EXPENSE TO THE OWNER.
- ALL ITEMS SHALL INCLUDE ALL THE NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE. MATERIALS AND LABOR NOT SPECIFICALLY IDENTIFIED SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- AT THE END OF EACH DAY, THE CONTRACTOR SHALL SECURE THE CONSTRUCTION WORK ZONE FROM POTENTIAL INTRUDERS.
- THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES, AND VERIFY PAVEMENT ELEVATIONS WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL CONTROL BY REFERENCING SHOWN COORDINATES TO KNOWN PROPERTY LINES. NOTIFY ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH WORK.
- THE CONTRACTOR SHALL CONTACT THE ENGINEER OF ANY ERRORS OR DISCREPANCIES WHICH MAY BE SUSPECTED IN LINES AND GRADES, AND SHALL NOT PROCEED WITH THE WORK UNTIL ALL LINES AND GRADES WHICH ARE BELIEVED TO BE IN ERROR HAVE BEEN VERIFIED OR CORRECTED BY THE ENGINEER OR HIS REPRESENTATIVE.
- THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF THEIR WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.
- ALL ITEMS TO BE REMOVED AND NOT DEFINED AS A PAY ITEM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- ALL EXCESS EARTH EXCAVATION, EXCESS MATERIALS, OR OTHER REMOVED ITEMS SHALL BE HAULED OFF-SITE AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE APPROVED BY THE OWNER.
- THIS WORK SHALL BE IN ACCORDANCE WITH SECTION 201 OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", CURRENT EDITION. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL OBSTRUCTIONS, TREES, DEBRIS AND BRUSH AS DESIGNATED BY THE OWNER AND AS INDICATED ON THE PLANS. ALL MATERIALS SHALL BE DISPOSED OF AT THE CONTRACTOR'S EXPENSE. DURING CONSTRUCTION, CARE SHALL BE TAKEN TO MINIMIZE DAMAGE TO THE EXISTING TREES AND LANDSCAPING. ONLY THOSE ITEMS DESIGNATED BY THE OWNER SHALL BE REMOVED.
- ALL ROADWAY REMOVAL ITEMS SHALL CONFORM TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", CURRENT EDITION. ALL JOINTS BETWEEN THE PORTION REMOVED AND THAT LEFT IN PLACE SHALL BE SAWED TO SUCH A DEPTH THAT A CLEAN, NEAT EDGE WILL RESULT WITH NO SPALLING TO THE REMAINING PORTION. THE COST OF SAWING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. ADDITIONAL SAWING OR RE-SAWING MAY BE REQUIRED AS DIRECTED BY THE ENGINEER WITH NO ADDITIONAL COMPENSATION BEING ALLOWED. THE COST OF SAWCUTTING THE EXISTING PAVEMENT SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

**GENERAL NOTES**

- WHEN ARTIFICIAL LIGHTING IS UTILIZED DURING NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC, AS WELL AS ADJOINING RESIDENTIAL AREAS.
- THE CONTRACTOR IS REQUIRED TO STAY WITHIN THE NOTED PROPERTY BOUNDARIES RIGHT-OF-WAY AND EASEMENTS AS SHOWN IN THE PLANS. ANY ADDITIONAL EASEMENTS SHALL BE SECURED BY THE CONTRACTOR AT NO EXTRA COST.
- ANY AREAS DAMAGED OR DISTURBED DURING THE PROJECT AS A DIRECT OR INDIRECT RESULT OF CONTRACTOR OPERATIONS, SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE ORIGINAL CONDITION. THE COST OF SAID RESTORATION OR REPAIR SHALL BE BORNE TOTALLY BY THE CONTRACTOR, WITH NO EXTRA COMPENSATION BEING AWARDED UNDER THIS CONTRACT. THE RESPONSIBILITY FOR THE REPAIR OR REPLACEMENT OF ANY UTILITY, STRUCTURE, LANDSCAPING, ETC., DAMAGED OR DESTROYED BY THE CONTRACTOR DURING MOBILIZATION OR CONSTRUCTION SHALL BE BORNE SOLELY BY THE CONTRACTOR, WITH NO EXPENSE BEING CHARGED TO THE ENGINEER OR OWNER. PRIOR TO ACCEPTANCE OF THIS REPAIR OR REPLACEMENT, THE CONTRACTOR SHALL PRESENT THE OWNER WITH A "SIGNOFF LETTER", SIGNED BY A RESPONSIBLE OFFICIAL OF THE OWNER OF THE DAMAGED UTILITY STATING THAT THE REPAIR OR REPLACEMENT IS ACCEPTABLE.

**CONSTRUCTION STAKING**

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING THE PROPOSED IMPROVEMENTS AND SHALL INCLUDE THE COST OF STAKING IN THEIR QUOTE. CONTROL POINTS ARE INDICATED ON THE PLANS.

**EROSION CONTROL NOTES**

- UNLESS OTHERWISE SPECIFIED, ALL EROSION AND SEDIMENT CONTROL MEASURES AND THEIR MAINTENANCE, CLEARING AND REMOVAL SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.
- THIS WORK SHALL CONFORM TO THE APPLICABLE STANDARDS FROM THE ILLINOIS URBAN MANUAL, THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION, CURRENT EDITION, THE PROJECT SPECIFICATIONS, AND THE APPROPRIATE DETAILS.
- THE CONTRACTOR SHALL IMPLEMENT THE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THESE EROSION CONTROL PLANS BEFORE CONSTRUCTION BEGINS.
- THE CONTROLS SHALL BE INSTALLED AS DETAILED AND WHERE INDICATED ON THE EROSION CONTROL PLAN SHEETS AND AS DIRECTED BY THE INSPECTOR.
- SITE ACTIVITIES SHOULD ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE PRACTICABLE.
- DISTURBED PORTIONS OF THE SITE SHALL BE STABILIZED (TEMPORARILY OR PERMANENTLY SEEDED, MULCHED, SODDED OR PAVED) AS SOON AS PRACTICABLE, BUT IN NO CASE MORE THAN 7 CALENDAR DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
- UNTIL SUCH TIME AS THE PROJECT SITE REACHES FINAL STABILIZATION, THE CONTRACTOR SHALL BE RESPONSIBLE TO ADJUST, REPAIR, OR REPLACE, ALL VEGETATION, EROSION CONTROLS, SEDIMENT CONTROLS, AND ANY OTHER PROTECTIVE MEASURES AS REQUIRED IN ORDER TO MAINTAIN THEIR INTENDED FUNCTION IN A GOOD AND EFFECTIVE OPERATING CONDITION.
- EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NON-STORM WATER EXPECTED DURING THE CONSTRUCTION PROCESS THAT MAY BE COMBINED WITH STORM WATER DISCHARGES ARE IDENTIFIED IN THE PLANS. THESE DISCHARGES SHALL BE DIRECTED AWAY FROM UNPROTECTED, BARE, OR OTHERWISE UNSTABILIZED SOIL, AND APPROPRIATE POLLUTION PREVENTION MEASURES SHALL BE IMPLEMENTED SO THAT THESE DISCHARGES DO NOT CAUSE EROSION OR DEGRADE THE QUALITY OF RUNOFF FROM THE CONSTRUCTION SITE.
- REGULAR INSPECTIONS WILL BE MADE AS REQUIRED UNDER THE GENERAL NPDES PERMIT NO. ILR10. A QUALIFIED INSPECTOR WILL BE PROVIDED BY THE OWNER. BASED ON THE RESULTS OF THE INSPECTIONS, POLLUTION PREVENTION MEASURES SHALL BE REVISED AS APPROPRIATE AS SOON AS PRACTICABLE AFTER EACH INSPECTION. SUCH REVISIONS SHALL BE IMPLEMENTED WITHIN 7 CALENDAR DAYS FOLLOWING EACH INSPECTION.
- THE INSPECTOR SHALL HAVE AUTHORIZATION TO DETERMINE THE ADEQUACY OF THE CONTRACTOR'S EROSION CONTROL EFFORTS. THE OWNER OR THE INSPECTOR SHALL HAVE FULL AUTHORITY OVER THE GENERAL CONTRACTOR AND ANY SUBCONTRACTOR TO CAUSE POLLUTANT CONTROL MEASURES TO BE REPAIRED, MODIFIED, MAINTAINED, SUPPLEMENTED, OR WHATEVER ELSE IS NECESSARY IN ORDER TO ACHIEVE EFFECTIVE POLLUTANT CONTROL OR TO SUSPEND OR LIMIT THE CONTRACTORS OPERATIONS PENDING ADEQUATE PERFORMANCE.
- PERIMETER EROSION BARRIER TO BE CONSTRUCTED OF SILT FENCE UNLESS NOTED OTHERWISE.
- A TEMPORARY CONCRETE WASHOUT FACILITY SHALL BE CONSTRUCTED AT A LOCATION APPROVED BY THE ENGINEER. WASHOUT FACILITY SHALL BE UTILIZED FOR ALL APPLICABLE OPERATIONS.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED, TO THE DIMENSIONS AS SHOWN, AT APPROVED LOCATIONS FOR THIS PROJECT. ALL CONSTRUCTION TRAFFIC MUST UTILIZE THE STABILIZED CONSTRUCTION ENTRANCES WHEN EXITING THE SITE. ALL COST FOR EROSION CONTROL AND RESTORATION WORK ASSOCIATED WITH THE APPROVED STABILIZED CONSTRUCTION ENTRANCES SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- TEMPORARY EROSION CONTROL MEASURES INCLUDE TEMPORARY DITCH CHECKS, PERIMETER EROSION BARRIER, INLET AND PIPE PROTECTION, TEMPORARY SEEDING, AND ANY OTHER TEMPORARY EROSION CONTROL MEASURE NEEDED TO LIMIT THE AMOUNT OF SOIL EROSION AND SEDIMENTATION DURING CONSTRUCTION.
- AT THE COMPLETION OF THE PROJECT, ALL TEMPORARY EROSION CONTROL ITEMS SHALL BE REMOVED FROM THE SITE, AND BECOME THE PROPERTY OF THE CONTRACTOR. CONTRACTOR MUST STABILIZE ANY AREA DISTURBED BY THE REMOVAL OF EROSION CONTROL ITEMS.
- CONTRACTOR SHALL CLEAN ANY DEBRIS TRACKED OFFSITE DAILY.

**SEEDING OF DISTURBED AREAS**

- THE FINAL TOP 6" INCHES OF SOIL IN ANY DISTURBANCE AREA MUST BE A COHESIVE SOIL CAPABLE OF SUPPORTING VEGETATION.
- FERTILIZER HAVING AN ANALYSIS OF 10-10-10 SHALL BE APPLIED AT A RATE OF 90 LBS/ACRE TO ALL DISTURBED AREAS AND INCORPORATED INTO THE SEEDBED PRIOR TO SOWING THE SEED.
- THE CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS ADJACENT TO IMPROVEMENTS WITH SEEDING, IDOT CLASS 1A AND MULCH, IDOT METHOD 2 IN ACCORDANCE WITH IDOT STANDARD SPECIFICATION OR AS APPROVED BY THE ENGINEER.
- GUARANTEE:** ALL SEEDED AREAS SHALL BE MAINTAINED AND MOWED FOR AT LEAST 30 DAYS AFTER GERMINATION. SCATTERED BARE SPOTS NO LARGER THAN TWO SQUARE FOOT WILL BE ALLOWED UP TO A MAXIMUM OF 5% OF ANY SEEDED AREA INCLUDING 30-DAY MAINTENANCE, MOWING AND WATERING AS NECESSARY.
- THIS WORK SHALL CONFORM TO THE APPLICABLE STANDARDS FROM THE ILLINOIS URBAN MANUAL, THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION SECTIONS, CURRENT EDITION, THE PROJECT SPECIFICATIONS, AND THE APPROPRIATE DETAILS.
- RESTORATION - THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED DURING CONSTRUCTION OF THE IMPROVEMENTS AND RELATED APPURTENANCES OR AS PART OF ANY OF THEIR ACTIVITIES TO A CONDITION EQUAL TO OR BETTER THAN THE ORIGINAL CONDITION.

**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
VILLAGE OF LENA  
122 EAST MAIN STREET  
LENA, IL 61048

PROJECT AND LOCATION:  
SIDEWALK IMPROVEMENTS  
LENA, IL

DRAWN BY: M.S.  
APPROVED BY: P.E.  
DATE: 3/13/18  
SCALE: AS NOTED

| REVISIONS |             |      |
|-----------|-------------|------|
| REV. NO.  | DESCRIPTION | DATE |
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DRAWING:  
GENERAL NOTES

SHEET TYPE:  
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JOB NUMBER:  
14-785

SHEET NUMBER:  
2 of 41

**STORM SEWER**

1. STORM SEWERS THAT CROSS OVER ANY PROPOSED WATER MAIN OR WATER SERVICE SHALL BE CONSTRUCTED WITH WATER MAIN QUALITY PIPE AND RUBBER GASKETED JOINTS (ASTM C443).
2. ALL EXISTING MANHOLE CONNECTIONS MUST BE CORE-DRILLED, UNLESS A PRE-CORED HOLE, SUITABLY LOCATED, EXISTS IN THE MANHOLE.
3. THE LENGTH OF FLARED END SECTIONS IS NOT INCLUDED IN THE INDICATED PIPE LENGTH. HOWEVER, THE ENTIRE LENGTH OF THE FLARED END SECTION IS TAKEN INTO ACCOUNT FOR THE INDICATED SLOPE AND INVERT GRADES.
5. CONTRACTOR SHALL FURNISH ALL PIPE BEDDING. PIPE BEDDING MATERIAL SHALL BE AS SHOWN IN THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", CURRENT EDITION. COST SHALL BE INCLUDED IN UNIT PRICE OF PIPE.
6. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING STORM SEWER ELEVATIONS THAT PROJECT CONNECTS TO.

**MATERIAL AND COMPACTION TESTING**

1. A GEOTECHNICAL REPRESENTATIVE WILL BE PROVIDED AND PAID FOR BY THE OWNER FOR ANY REQUIRED TESTING. THE CONTRACTOR IS RESPONSIBLE TO FOLLOW AND MEET GUIDELINES SET BY THE GEOTECHNICAL REPRESENTATIVE.

**UTILITIES**

1. UTILITIES SHOWN ON THE PLANS ARE FOR ILLUSTRATIVE PURPOSES ONLY AND NO GUARANTEE OF THEIR ACCURACY IS MADE OR INFERRED. THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE DRAWINGS REPRESENT DATA RECEIVED FROM VARIOUS SOURCES. IT IS NOT GUARANTEED TO BE CORRECT OR ALL-INCLUSIVE. THE CONTRACTOR SHALL CONDUCT HIS OWN INVESTIGATION INTO THE LOCATION, SIZE, DEPTH AND NATURE OF ANY AND ALL EXISTING UTILITIES THAT MAY INTERFERE WITH THE WORK UNDER THIS CONTRACT. ANY EXISTING UTILITIES THAT ARE TO REMAIN IN SERVICE SHALL BE FULLY PROTECTED BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER OR THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ANY AND ALL UTILITY COMPANIES REGARDING ADJUSTMENTS NECESSARY. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE AND CONSIDERED INCIDENTAL TO THE PROJECT COST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND, OVERHEAD, OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER OR THE OWNER OR REPLACED. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
2. THE CONTRACTOR MUST VERIFY AND LOCATE ALL EXISTING UTILITIES ON OR ADJACENT TO THE SITE. PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES, CONTACT J.U.L.I.E. AT 1-800-892-0123 (OR 811) FOR EXACT FIELD LOCATION OF UTILITIES. DAMAGE, AND THE COST THEREOF, TO ANY AND ALL UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY AND ALL EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE. THE ENGINEER AND SURVEYOR ASSUMES NO RESPONSIBILITY FOR THE LOCATION OF THE EXISTING UTILITIES SHOWN HEREON.
3. IF THERE ARE ANY UTILITIES WHICH ARE NOT MEMBERS OF THE J.U.L.I.E. SYSTEM, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THIS AND REQUESTING SAID UTILITIES TO FIELD VERIFY AND MARK PERTINENT UTILITY LOCATIONS.
4. THE UTILITY LOCATIONS, DEPTHS, ETC. SHOWN ON THESE PLANS ARE APPROXIMATE ONLY, AND SHALL BE VERIFIED BY THE CONTRACTOR WITH ALL AFFECTED UTILITY COMPANIES PRIOR TO INITIATING CONSTRUCTION OPERATIONS; THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY FOR THE ADEQUACY, SUFFICIENCY OR EXACTNESS OF THESE UTILITY REPRESENTATIONS.
5. THE CONTRACTOR SHALL CONTACT THE NECESSARY UTILITY COMPANIES FOR ANY UTILITY RELOCATIONS. THE CONTRACTOR SHALL PAY FOR ALL COSTS ASSOCIATED WITH RELOCATION OF UTILITIES ON OR ADJACENT TO THE SUBJECT PROPERTY OR WITHIN THE ROAD RIGHT-OF-WAY.
6. TRENCH BACKFILL SHALL BE FILL MATERIAL TYPE A (GRAVEL OR CA6 CRUSHED STONE.) OR TYPE C (SAND FA-1 OR SAND FA-2) IN ACCORDANCE WITH AASHTO T27 GUIDELINES AND THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR WATER & SEWER CONSTRUCTION IN ILLINOIS", CURRENT EDITION. COST SHALL BE INCLUDED IN UNIT PRICE OF PIPE.
7. TRENCH BACKFILL SHALL BE USED IN LOCATIONS WHERE THERE IS AN EXISTING OR PROPOSED PERMANENT SURFACE.
8. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION OR HAVE THE POTENTIAL FOR CREATING FUTURE PROBLEMS SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE PROJECT AT AN APPROVED LOCATION OBTAINED BY THE CONTRACTOR, ACCORDING TO THE "STANDARD SPECIFICATIONS FOR WATER & SEWER CONSTRUCTION IN ILLINOIS", CURRENT EDITION, AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
9. ANY AND ALL FIELD TILES AND OR STORM SEWERS DAMAGED OR ENCOUNTERED DURING THE CONSTRUCTION ACTIVITIES SHALL BE REPAIRED, REPLACED AND/OR CONNECTED IMMEDIATELY BY THE CONTRACTOR. COST FOR SAID REPAIRS, REPLACEMENT, AND/OR CONNECTION SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

**TRAFFIC CONTROL**

1. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL TRAFFIC CONTROL ITEMS NECESSARY FOR THE CONSTRUCTION OF ITEMS WITH IN THE ROAD RIGHT-OF-WAY. ALL WORK PERFORMED SHALL HAVE TRAFFIC CONTROL IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", CURRENT EDITION.
2. ALL TRAFFIC CONTROL DEVICES USED FOR THE MAINTENANCE OF TRAFFIC SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS NECESSARY THROUGHOUT THE DURATION OF THE CONTRACT. ALL SIGNS SHALL BE FURNISHED, INSTALLED AND MAINTAINED BY THE CONTRACTOR. PAYMENT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
3. TRAFFIC CONDITIONS, ACCIDENTS, AND OTHER UNFORESEEN CONDITIONS MAY REQUIRE THE ENGINEER TO MODIFY THE LOCATION OF THE TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS AS DIRECTED BY THE ENGINEER WITHOUT DELAY. THE CONTRACTOR SHALL RESPOND WITHIN 30 MINUTES FROM THE TIME OF NOTIFICATION BY THE ENGINEER TO ANY REQUEST MADE BY THE ENGINEER FOR CORRECTION, IMPROVEMENT OR MODIFICATION OF THE MAINTENANCE OF TRAFFIC CONTROL DEVICES. DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ADJACENT TRAFFIC LANES OPEN TO TRAFFIC FROM DEBRIS BEING BLOWN OR OTHERWISE REMOVED FROM THE CONSTRUCTION AREAS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR KEEPING DEBRIS OFF THE ADJACENT TRAVELED LANE SURFACE. COST INCIDENTAL TO THE PROJECT.
4. THE CONTRACTOR SHALL SUBMIT MAINTENANCE OF TRAFFIC AND STAGING OF CONSTRUCTION PLANS FOR APPROVAL BY THE ENGINEER PRIOR TO COMMENCING WORK.
5. THE CONTRACTOR SHALL PERFORM THE WORK UNDER STAGE CONSTRUCTION IN THE EVENT THAT THE CONTRACTOR WILL NEED TO CLOSE PUBLIC ROADS, CONTRACTOR SHALL SUBMIT PROPOSED DETOUR ROUTE AND ASSOCIATED SIGNAGE TO THE ENGINEER PRIOR TO COMMENCING WORK.
6. TRAFFIC CONTROL DEVICES, STREET NAME SIGNS, AND PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH VILLAGE OF LENA ORDINANCES AND THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES". LOCATIONS OF SIGNS AND MARKINGS SHALL BE SPECIFIED BY THE PLANS, AND/OR AS DIRECTED BY THE ENGINEER.
7. PROVIDE TO THE ENGINEER AND THE OWNER THE NAME AND PHONE NUMBER OF INDIVIDUALS RESPONSIBLE FOR MAINTAINING TRAFFIC CONTROL MEASURES DURING CONSTRUCTION. THIS INDIVIDUAL SHALL BE AVAILABLE TO CORRECT TRAFFIC CONTROL PROBLEMS 24 HOURS PER DAY.
8. THE CONTRACTOR SHALL NOTIFY THE POST OFFICE, POLICE DEPARTMENT, FIRE DEPARTMENT, 911 DISPATCH CENTER, ILLINOIS DEPARTMENT OF TRANSPORTATION, STATE POLICE, APPROPRIATE SCHOOL DISTRICT AND THE LOCAL AGENCY A MINIMUM OF 5 DAYS PRIOR TO CLOSING ANY PORTION OF THE STREET OR ALLEY.

**SUBGRADES, SUBBASES, AND BASE COURSES**

1. THE CONTRACTOR WILL BE REQUIRED TO SUBSTANTIATE BASE COURSE THICKNESSES AND FINISH PAVEMENT THICKNESSES. THE ENGINEER SHALL INSPECT BASE COURSE COREOUT PRIOR TO PLACING BASE COURSE TO ENSURE REQUIRED BASE COURSE DEPTH IS PRESENT. IN ADDITION, THE ENGINEER AND/OR THE CITY ENGINEER SHALL WITNESS THE PLACEMENT OF BITUMINOUS BINDER AND SURFACE COURSE. CORE DRILLING MAY BE REQUIRED TO DEMONSTRATE THAT BASE COURSE AND PAVEMENT THICKNESSES CONFORM TO THE SPECIFICATIONS. PRIOR TO PLACING BASE COURSE MATERIAL, THE CONTRACTOR SHALL TEST ROLL THE SUBGRADE, IN THE PRESENCE OF THE ENGINEER OR HIS AGENT TO DEMONSTRATE THAT SAID SUBGRADE IS READY FOR BASE. PRIOR TO PLACEMENT OF THE BITUMINOUS SURFACE, THE SAME VERIFICATION PROCEDURE SHALL BE PERFORMED ON THE BASE COURSE MATERIAL. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO PERFORMING ANY OF THE REQUIRED TESTS SO THAT A REPRESENTATIVE MAY BE PRESENT.

**EXCAVATION/EARTHWORK**

1. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATION NEAR ANY AND ALL EXISTING ITEMS WHICH ARE NOT INDICATED TO BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT NO ADDITIONAL EXPENSE TO THE OWNER.
2. PRIOR TO STARTING EARTHWORK OR UTILITY TRENCHING, THE CONTRACTOR SHALL STRIP THE SITE OF TOPSOIL TO A DEPTH OF 6" AND TO THE LIMITS APPROVED BY THE ENGINEER. THIS MATERIAL SHALL BE STOCKPILED IN A REMOTE LOCATION OF THE SITE (APPROVED BY THE ENGINEER) UNTIL THE PLAN IMPROVEMENTS ARE COMPLETED AND THE EXCESS MATERIAL SPREAD AS DIRECTED. IT SHALL THEN BE THE RESPONSIBILITY OF THE CONTRACTOR TO SPREAD THIS TOPSOIL MATERIAL IN AREAS OF THE SITE, OVER AREAS WHERE EXCESS EXCAVATED MATERIAL, SAND, GRAVEL HAS BEEN SPREAD OR IN OTHER AREAS AS DESIGNATED BY THE ENGINEER. THE MATERIAL SHALL THEN BE COMPACTED TO A MINIMAL DEPTH OF 6" AND FINE GRADED IN A MANNER ACCEPTABLE TO THE ENGINEER. THIS WORK SHALL BE IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", CURRENT EDITION.
3. CLEAN CONSTRUCTION OR DEMOLITION DEBRIS (CCDD) REQUIREMENTS--THE CONTRACTOR IS RESPONSIBLE FOR THE ASSESSMENT AND PROPER DISPOSAL OF ALL EXCESS SOIL AND SUBSURFACE MATERIALS THAT ARE NOT ABLE TO BE RE-USED ON THE PROJECT SITE AS SUITABLE CLEAN FILL. CONTRACTOR RESPONSIBILITY'S SHALL INCLUDE ALL REQUIRED SOIL SAMPLING, LABORATORY ANALYSIS, DISPOSAL PROFILING FEES, TRANSPORTATION, AND DISPOSAL TIPPING FEES AND SURCHARGES."
4. ROCK IS NOT ANTICIPATED TO BE ENCOUNTERED.
5. ALL EXCAVATIONS FOR STRUCTURES AND PIPE SHALL BE KEPT DEWATERED DURING CONSTRUCTION UNTIL BACKFILL IS IN PLACE. DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. (COST INCIDENTAL)
6. EARTH EXCAVATION SHALL CONFORM TO SECTION 202 OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", CURRENT EDITION. THIS WORK SHALL INCLUDE THE EXCAVATION OF ALL MATERIALS TO DESIGN SUBGRADE ELEVATIONS INDICATED IN THE PLANS.
7. SHEETING AND SHORING SHALL BE CONSIDERED INCIDENTAL TO CONTRACT IF REQUIRED.
8. ALL REMOVAL ITEMS, EXCESS EARTH EXCAVATION OR LEFT OVER MATERIALS SHALL BE DISPOSED OF BY CONTRACTOR AND SHALL BE INCIDENTAL TO THE PROJECT.
9. WHENEVER THE CONTRACTOR WORKS NEAR EXISTING FACILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS DURING TRENCHING OPERATIONS, HE WILL BE REQUIRED TO HAND TRENCH IN THAT AREA IN ORDER NOT TO DAMAGE THESE FACILITIES. PUSH HOLES AND SEARCH HOLES THAT ARE DUG BY THE CONTRACTOR SHALL BE BACKFILLED BY TAMPING THE EXCAVATED MATERIAL BACK IN PLACE TO KEEP SETTLEMENT TO A MINIMUM. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
10. EMBANKMENT WORK SHALL CONSIST OF THE CONSTRUCTION OF EMBANKMENTS BY DEPOSITING, PLACING AND COMPACTING EARTH, STONE, GRAVEL OR OTHER MATERIALS OF ACCEPTABLE QUALITY ABOVE THE NATURAL GROUND OR OTHER SURFACE IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", CURRENT EDITION.
11. IF SUFFICIENT TOPSOIL IS NOT PRESENT, THE CONTRACTOR SHALL SPREAD FURNISHED TOPSOIL SO AS TO MEET THE REQUIREMENTS OF THE CONTRACT. FURNISHED TOPSOIL SHALL ONLY BE USED WITH APPROVAL BY THE ENGINEER. THIS FURNISHED TOPSOIL SHALL BE PAID FOR AS FURNISHED TOPSOIL IN PLACE, DEPTH SPECIFIED.
12. IN PROPOSED FILL AREAS FOR PAVEMENT AND EMBANKMENT, TOPSOIL AND TURF SHALL BE SCARIFIED AND REMOVED PRIOR TO CONSTRUCTING THE EMBANKMENT.



ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
VILLAGE OF LENA  
122 EAST MAIN STREET  
LENA, IL 61048

PROJECT AND LOCATION:  
SIDEWALK IMPROVEMENTS  
LENA, IL

DRAWN BY: M.S.  
APPROVED BY: P.E.  
DATE: 3/13/18  
SCALE: AS NOTED

| REVISIONS |             |      |
|-----------|-------------|------|
| REV. NO.  | DESCRIPTION | DATE |
|           |             |      |
|           |             |      |
|           |             |      |
|           |             |      |

DRAWING:  
GENERAL NOTES

SET TYPE:  
G:\3D\14\14-785\Plans\14-785 Plans.dwg, NOTES

JOB NUMBER:  
14-785

SHEET NUMBER:  
3 of 41



| SUMMARY OF QUANTITIES        |           |   |       |       |
|------------------------------|-----------|---|-------|-------|
| CONSTRUCTION TYPE CODE: 0028 |           |   |       |       |
| S.P.                         | PAY ITEMS | ITEMS   | UNIT  | TOTAL |
|                              | 20100110  | TREE REMOVAL (6 TO 15 UNITS DIAMETER)             | UNITS | 14    |
|                              | 20100210  | TREE REMOVAL (OVER 15 UNITS DIAMETER)             | UNITS | 144   |
| *                            | 20101400  | NITROGEN FERTILIZER                               | LBS   | 44    |
| *                            | 20101500  | PHOSPHORUS FERTILIZER                             | LBS   | 44    |
| *                            | 20101600  | POTASSIUM FERTILIZER                              | LBS   | 44    |
|                              | 25000110  | SEEDING, CLASS 1A                                 | AC    | 0.47  |
|                              | 25100115  | MULCH, METHOD 2                                   | AC    | 0.47  |
|                              | 28000250  | TEMPORARY EROSION CONTROL SEEDING                 | LBS   | 47    |
|                              | 28000305  | TEMPORARY DITCH CHECK                             | FT    | 60    |
|                              | 28000400  | PERIMETER EROSION BARRIER                         | FT    | 1182  |
|                              | 28000500  | INLET AND PIPE PROTECTION                         | EA    | 9     |
| *                            | 42300200  | PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT 6-INCH | SY    | 367   |
| *                            | 42300300  | PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT 7-INCH | SY    | 848   |
| *                            | 42400200  | PORTLAND CEMENT CONCRETE SIDEWALK, 5-INCH         | SF    | 8051  |
| *                            | 42400800  | DETECTABLE WARNINGS                               | SF    | 66    |
|                              | 44000100  | PAVEMENT REMOVAL                                  | SY    | 378   |
|                              | 44000200  | DRIVEWAY PAVEMENT REMOVAL                         | SY    | 1879  |
|                              | 44000500  | COMBINATION CURB AND GUTTER REMOVAL               | FT    | 159   |
| *                            | 44000600  | SIDEWALK REMOVAL                                  | SF    | 410   |
|                              | 50105220  | PIPE CULVERT REMOVAL                              | FT    | 86    |
|                              | 52200800  | SEGMENTAL CONCRETE BLOCK WALL                     | SF    | 77    |
|                              | 54010302  | PRECAST CONCRETE BOX CULVERT 3'X2'                | FT    | 8     |
|                              | 542A0217  | PIPE CULVERT, CLASS A, TYPE 1, 12"                | FT    | 43    |
|                              | 542A0220  | PIPE CULVERT, CLASS A, TYPE 1, 15"                | FT    | 47    |
|                              | 54213447  | END SECTIONS, 12"                                 | EA    | 2     |
|                              | 54213450  | END SECTIONS, 15"                                 | EA    | 2     |
|                              | 550A0050  | STORM SEWERS, CLASS A, TYPE 1, 12"                | FT    | 455   |
|                              | 55100500  | STORM SEWER REMOVAL, 12"                          | FT    | 7     |
| △                            | 56400400  | FIRE HYDRANTS TO BE RELOCATED                     | EA    | 2     |
| △                            | 56500600  | DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED       | EA    | 10    |
|                              | 60234200  | INLET, TYPE A, TYPE 1 FRAME, OPEN LID             | EA    | 5     |
|                              | 60500040  | REMOVING MANHOLE                                  | EA    | 1     |
| *                            | 60609800  | COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.18 | FT    | 159   |
| △                            | 66900200  | NON-SPECIAL WASTE DISPOSAL                        | CY    | 20    |
|                              | 67100100  | MOBILIZATION                                      | LS    | 1     |
| △                            | 78005110  | EPOXY PAVEMENT MARKING - LINE 4"                  | FT    | 178   |
| △                            | 78005130  | EPOXY PAVEMENT MARKING - LINE 6"                  | FT    | 305   |
| △                            | 78005180  | EPOXY PAVEMENT MARKING - LINE 24"                 | FT    | 28    |
| *                            | X0326458  | PAVEMENT REPLACEMENT SPECIAL                      | SY    | 381   |
| *                            | X0326805  | WASHOUT BASIN                                     | LS    | 1     |
| *                            | X2020410  | EARTH EXCAVATION SPECIAL                          | CY    | 796   |
| *                            | X7010216  | TRAFFIC CONTROL AND PROTECTION SPECIAL            | LS    | 1     |
|                              | Z0004002  | BOLLARDS  | EA    | 2     |

△ SPECIALTY ITEMS

| 20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER) |           |
|--|-----------|
| STATION  | UNIT      |
| 40+04 (LT)                                     | 6         |
| 44+67 (LT)                                     | 8         |
| <b>TOTAL</b>                                   | <b>14</b> |

| 20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER) |            |
|--|------------|
| STATION  | UNIT       |
| 26+28 (LT)                                     | 18         |
| 38+52 (LT)                                     | 26         |
| 38+89 (LT)                                     | 32         |
| 39+15 (LT)                                     | 38         |
| 45+50 (LT)                                     | 30         |
| <b>TOTAL</b>                                   | <b>144</b> |

| 28000500 INLET AND PIPE PROTECTION |          |
|------------------------------------|----------|
| STATION                            | EACH     |
| 30+25.0 (LT)                       | 1        |
| 30+98.6 (LT)                       | 1        |
| 32+72.8 (LT)                       | 1        |
| 34+07.3 (LT)                       | 1        |
| 34+90.8 (LT)                       | 1        |
| 37+78 (LT)                         | 1        |
| 45+55 (RT)                         | 1        |
| 45+83 (LT)                         | 1        |
| 45+95 (RT)                         | 1        |
| <b>TOTAL</b>                       | <b>9</b> |

| 42300200 PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT 6-INCH |            |
|--|------------|
| STATION TO STATION   | SQ. YD.    |
| 39+46.8 - 39+97.1 (LT)                                     | 103        |
| 40+96.3 - 41+08.3 (LT)                                     | 27         |
| 42+23.8 - 42+40.3 (LT)                                     | 38         |
| 42+83.5 - 42+97.6 (LT)                                     | 31         |
| 43+28.5 - 43+41.3 (LT)                                     | 30         |
| 43+51.6 - 43+63.4 (LT)                                     | 29         |
| 44+70.3 - 44+91.0 (LT)                                     | 44         |
| 45+70.4 - 45+88.6 (LT)                                     | 39         |
| 46+45.8 - 46+57.8 (LT)                                     | 26         |
| <b>TOTAL</b>   | <b>367</b> |

| 42300300 PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT 7-INCH |            |
|--|------------|
| STATION TO STATION   | SQ. YD.    |
| 26+05.2 - 26+29.2 (LT)                                     | 87         |
| 28+70.2 - 29+05.2 (LT)                                     | 96         |
| 30+35.0 - 30+65.0 (LT)                                     | 66         |
| 31+10.0 - 31+40.0 (LT)                                     | 69         |
| 32+89.9 - 33+44.1 (LT)                                     | 125        |
| 34+16.2 - 34+51.2 (LT)                                     | 93         |
| 35+02.6 - 35+37.6 (LT)                                     | 90         |
| 35+83.8 - 36+18.8 (LT)                                     | 94         |
| 37+84.8 - 38+38.8 (LT)                                     | 128        |
| <b>TOTAL</b>   | <b>848</b> |

| 42400200 PORTLAND CEMENT CONCRETE SIDEWALK 5-INCH |       |             |
|---|-------|-------------|
| STATION TO STATION                                | WIDTH | SQ. FT.     |
| 25+75.0 - 26+05.2 (LT)                            | 5     | 151         |
| 26+29.2 - 28+70.2 (LT)                            | 5     | 1205        |
| 29+05.2 - 30+35.0 (LT)                            | 5     | 648         |
| 30+65.0 - 31+10.0 (LT)                            | 5     | 225         |
| 31+40.0 - 32+89.9 (LT)                            | 5     | 749         |
| 33+44.1 - 34+16.2 (LT)                            | 5     | 380         |
| 34+51.2 - 35+02.6 (LT)                            | 5     | 283         |
| 35+37.6 - 35+83.8 (LT)                            | 5     | 231         |
| 36+18.8 - 36+80.9 (LT)                            | 5     | 307         |
| 37+45.7 - 37+81.4 (LT)                            | 5     | 140         |
| 38+38.8 - 39+48.5 (LT)                            | 5     | 584         |
| 39+97.1 - 40+96.3 (LT)                            | 5     | 524         |
| 41+08.3 - 42+22.8 (LT)                            | 5     | 573         |
| 42+40.3 - 42+83.5 (LT)                            | 5     | 218         |
| 42+97.6 - 43+28.5 (LT)                            | 5     | 153         |
| 43+41.3 - 43+51.6 (LT)                            | 5     | 52          |
| 43+63.4 - 44+70.3 (LT)                            | 5     | 534         |
| 44+91.0 - 45+70.4 (LT)                            | 5     | 470         |
| 45+24.5 - 45+51.3 (RT)                            | 5     | 200         |
| 45+88.6 - 46+45.8 (LT)                            | 5     | 286         |
| 45+98.4 - 46+24.9 (RT)                            | 5     | 112         |
| 46+57.8 - 46+67.4 (LT)                            | 5     | 46          |
| <b>TOTAL</b>                                      |       | <b>8051</b> |

| 42400800 DETECTABLE WARNINGS |           |
|------------------------------|-----------|
| STATION                      | SQ. FT.   |
| 36+78 (LT)                   | 10        |
| 37+50 (LT)                   | 13        |
| 45+44 (LT)                   | 10        |
| 45+44 (RT)                   | 21        |
| 46+01 (RT)                   | 12        |
| <b>TOTAL</b>                 | <b>66</b> |

| 44000100 PAVEMENT REMOVAL |            |
|---------------------------|------------|
| STATION                   | SQ. YD.    |
| 25+95.4 - 26+39.3 (LT)    | 10         |
| 28+60.2 - 29+15.2 (LT)    | 12         |
| 30+25.0 - 30+75.0 (LT)    | 11         |
| 31+00.0 - 31+50.0 (LT)    | 11         |
| 32+79.9 - 33+56.8 (LT)    | 40         |
| 34+06.2 - 34+61.2 (LT)    | 12         |
| 34+92.7 - 26+28.8 (LT)    | 30         |
| 36+62.8 - 37+76.0 (LT)    | 225        |
| 40+89.4 - 41+15.4 (LT)    | 6          |
| 45+24.5 - 45+41.4 (RT)    | 9          |
| 45+36.3 - 45+52.3 (LT)    | 4          |
| 45+40.2 - 45+56.3 (RT)    | 4          |
| 45+92.6 - 46+08.2 (LT)    | 4          |
| <b>TOTAL</b>              | <b>378</b> |

| 44000200 DRIVEWAY PAVEMENT REMOVAL |             |
|------------------------------------|-------------|
| STATION TO STATION                 | SQ. YD.     |
| 25+75.0 - 26+40.7 (LT)             | 88          |
| 28+70.2 - 29+46.3 (LT)             | 128         |
| 29+56.5 - 33+56.8 (LT)             | 711         |
| 33+75.9 - 34+72.4 (LT)             | 150         |
| 34+88.5 - 36+36.1 (LT)             | 294         |
| 37+67.1 - 38+53.7 (LT)             | 141         |
| 39+42.5 - 40+02.6 (LT)             | 104         |
| 40+93.1 - 41+12.5 (LT)             | 24          |
| 42+14.9 - 42+46.6 (LT)             | 41          |
| 42+79.0 - 43+03.2 (LT)             | 31          |
| 43+23.3 - 43+69.0 (LT)             | 59          |
| 44+65.3 - 44+95.9 (LT)             | 44          |
| 45+65.5 - 45+93.6 (LT)             | 39          |
| 46+41.7 - 46+62.7 (LT)             | 25          |
| <b>TOTAL</b>                       | <b>1879</b> |

| 44000500 COMBINATION CURB & GUTTER REMOVAL |            |
|--|------------|
| STATION                                    | FT         |
| 36+62.8 - 36+83.7 (LT)                     | 35         |
| 37+33.9 - 37+76.0 (LT)                     | 48         |
| 40+89.4 - 41+15.4 (LT)                     | 26         |
| 45+36.3 - 45+52.3 (LT)                     | 16         |
| 45+40.2 - 45+56.3 (RT)                     | 18         |
| 45+92.6 - 46+08.2 (RT)                     | 16         |
| <b>TOTAL</b>                               | <b>159</b> |

| 44000600 SIDEWALK REMOVAL |            |
|---------------------------|------------|
| STATION                   | SQ. FT.    |
| 40+63.0 - 40+66.9 (LT)    | 74         |
| 45+10.5 - 45+12.8 (LT)    | 39         |
| 45+24.5 - 45+51.3 (RT)    | 157        |
| 45+98.4 - 46+24.9 (RT)    | 99         |
| 46+57.4 - 46+67.4 (LT)    | 41         |
| <b>TOTAL</b>              | <b>410</b> |

| 50105220 PIPE CULVERT REMOVAL |           |
|-------------------------------|-----------|
| STATION                       | FT.       |
| 26+02 - 26+39 (LT)            | 37        |
| 28+65 - 29+14 (LT)            | 49        |
| <b>TOTAL</b>                  | <b>86</b> |

| 52200800 SEGMENTAL CONCRETE BLOCK WALL |           |
|--|-----------|
| STATION                                | SQ. FT.   |
| 34+51.2 - 35+02.6 (LT)                 | 77        |
| <b>TOTAL</b>                           | <b>77</b> |

| 54010302 PRECAST CONCRETE BOX CULVERT 3' x 2' |          |
|---|----------|
| STATION                                       | FT       |
| 34+90.8 (LT)                                  | 8        |
| <b>TOTAL</b>                                  | <b>8</b> |

| 542A0217 PIPE CULVERT, CLASS A, TYPE 1, 12" |           |
|---|-----------|
| STATION                                     | FT        |
| 27+30 - 27+75 (RT)                          | 43        |
| <b>TOTAL</b>                                | <b>43</b> |

| 542A0220 PIPE CULVERT, CLASS A, TYPE 1, 15" |           |
|---|-----------|
| STATION                                     | FT        |
| 25+95 - 26+42 (LT)                          | 47        |
| <b>TOTAL</b>                                | <b>47</b> |

| 54213447 END SECTION, 12" |          |
|---------------------------|----------|
| STATION                   | EACH     |
| 27+30 (RT)                | 1        |
| 27+75 (RT)                | 1        |
| <b>TOTAL</b>              | <b>2</b> |

| 54213450 END SECTION, 15" |          |
|---------------------------|----------|
| STATION                   | EACH     |
| 25+95 (LT)                | 1        |
| 26+42 (LT)                | 1        |
| <b>TOTAL</b>              | <b>2</b> |

| 550A0050 STORM SEWERS, CLASS A, TYPE 1, 12" |            |
|---|------------|
| STATION                                     | FT         |
| 30+25.0 - 30+98.6 (LT)                      | 71         |
| 30+98.6 - 32+72.8 (LT)                      | 171        |
| 32+72.8 - 34+07.3 (LT)                      | 132        |
| 34+07.3 - 34+90.8 (LT)                      | 81         |
| <b>TOTAL</b>                                | <b>455</b> |

| 55100500 STORM SEWER REMOVAL, 12" |          |
|-----------------------------------|----------|
| STATION                           | FT.      |
| 34+90.8 LT                        | 7        |
| <b>TOTAL</b>                      | <b>7</b> |

| 56400400 FIRE HYDRANTS TO BE RELOCATED |          |
|--|----------|
| STATION                                | EACH     |
| 26+51 (LT)                             | 1        |
| 45+27 (RT)                             | 1        |
| <b>TOTAL</b>                           | <b>2</b> |



OWNER/DEVELOPER:  
VILLAGE OF LENA  
122 EAST MAIN STREET  
LENA, IL 61048

PROJECT AND LOCATION:  
SIDEWALK IMPROVEMENTS  
LENA, IL

DRAWN BY: M.S.  
APPROVED BY: P.E.  
DATE: 3/13/18  
SCALE: AS NOTED

| REVISIONS |             |      |
|-----------|-------------|------|
| REV. NO.  | DESCRIPTION | DATE |
|           |             |      |
|           |             |      |
|           |             |      |

| DRAWING:  |  |
|---|--|
| SUMMARY AND SCHEDULE OF QUANTITIES                    |  |
| SET TYPE:   |  |
| G:\300\14\14-785\Plan\14-785 Quantities.dwg - SUMMARY |  |

JOB NUMBER:  
14-785

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5 of 41

| 56500600 DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED |           |
|--|-----------|
| STATION  | EACH      |
| 33+30 (LT)   | 1         |
| 38+20 (LT)   | 1         |
| 39+20 (LT)   | 1         |
| 39+99 (LT)   | 1         |
| 40+76 (LT)   | 1         |
| 41+78 (LT)   | 1         |
| 42+68 (LT)   | 1         |
| 44+02 (LT)   | 1         |
| 44+66 (LT)   | 1         |
| 45+58 (LT)   | 1         |
| <b>TOTAL</b>   | <b>10</b> |

| 60234200 INLET, TYPE A, TYPE 1 FRAME, OPEN LID |          |
|--|----------|
| STATION  | EACH     |
| 30+25.0 (LT)                                   | 1        |
| 30+98.6 (LT)                                   | 1        |
| 32+72.8 (LT)                                   | 1        |
| 34+07.3 (LT)                                   | 1        |
| 34+90.8 (LT)                                   | 1        |
| <b>TOTAL</b>                                   | <b>5</b> |

| 60500040 REMOVING MANHOLE |          |
|---------------------------|----------|
| STATION                   | EACH     |
| 34+94 (RT)                | 1        |
| <b>TOTAL</b>              | <b>1</b> |

| 60609800 COMBINATION CURB & GUTTER, TYPE M-6.18 |            |
|---|------------|
| STATION   | FT         |
| 36+62.8 - 36+83.7 (LT)                          | 35         |
| 37+33.9 - 37+76.0 (LT)                          | 48         |
| 40+89.4 - 41+15.4 (LT)                          | 26         |
| 45+36.3 - 45+52.3 (LT)                          | 16         |
| 45+40.2 - 45+56.3 (RT)                          | 18         |
| 45+92.6 - 46+08.2 (RT)                          | 16         |
| <b>TOTAL</b>                                    | <b>159</b> |

| 66900200 NON-SPECIAL WASTE DISPOSAL |           |
|-------------------------------------|-----------|
| STATION                             | CY        |
| 37+23 - 38+72 (LT)                  | 20        |
| <b>TOTAL</b>                        | <b>20</b> |

| 78005110 EPOXY PAVEMENT MARKING - LINE 4" |            |
|---|------------|
| STATION                                   | FT         |
| 33+14 - 33+20 (LT)                        | 82         |
| 37+07 (LT)                                | 7          |
| 37+08 (LT)                                | 7          |
| 38+09 - 38+15 (LT)                        | 82         |
| <b>TOTAL</b>                              | <b>178</b> |

| 78005130 EPOXY PAVEMENT MARKING - LINE 6" |            |
|---|------------|
| STATION                                   | FT         |
| 36+80 - 37+49 (LT)                        | 69         |
| 36+83 - 37+43 (LT)                        | 60         |
| 45+41 (LT/RT)                             | 39         |
| 45+47 (LT/RT)                             | 42         |
| 45+48 - 46+02 (RT)                        | 53         |
| 45+54 - 45+96 (RT)                        | 42         |
| <b>TOTAL</b>                              | <b>305</b> |

| 78005180 EPOXY PAVEMENT MARKING - LINE 24" |           |
|--|-----------|
| STATION                                    | FT        |
| 36+84 - 37+08 (LT)                         | 28        |
| <b>TOTAL</b>                               | <b>28</b> |

| X0326458 PAVEMENT REPLACEMENT SPECIAL |            |
|---------------------------------------|------------|
| STATION                               | SQ. YD.    |
| 25+95.4 - 26+39.3 (LT)                | 10         |
| 28+60.2 - 29+15.2 (LT)                | 12         |
| 30+25.0 - 30+75.0 (LT)                | 11         |
| 31+00.0 - 31+50.0 (LT)                | 11         |
| 32+79.9 - 33+56.8 (LT)                | 40         |
| 34+06.2 - 34+61.2 (LT)                | 12         |
| 34+93.5 - 35+02.6 (LT)                | 3          |
| 34+92.7 - 36+28.8 (LT)                | 30         |
| 36+62.8 - 37+76.0 (LT)                | 225        |
| 40+89.4 - 41+15.4 (LT)                | 6          |
| 45+24.5 - 45+41.4 (RT)                | 9          |
| 45+36.3 - 45+52.3 (LT)                | 4          |
| 45+40.2 - 45+56.3 (RT)                | 4          |
| 45+92.6 - 46+08.2 (LT)                | 4          |
| <b>TOTAL</b>                          | <b>381</b> |

| Z0004002 BOLLARDS |          |
|-------------------|----------|
| STATION           | EACH     |
| 45+25.6 (RT)      | 1        |
| 45+29.0 (RT)      | 1        |
| <b>TOTAL</b>      | <b>2</b> |



ILLINOIS  
IOWA  
WISCONSIN

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LENA, IL 61048

PROJECT AND LOCATION:  
SIDEWALK IMPROVEMENTS  
LENA, IL

DRAWN BY: M.S.  
APPROVED BY: P.E.  
DATE: 3/13/18  
SCALE: AS NOTED

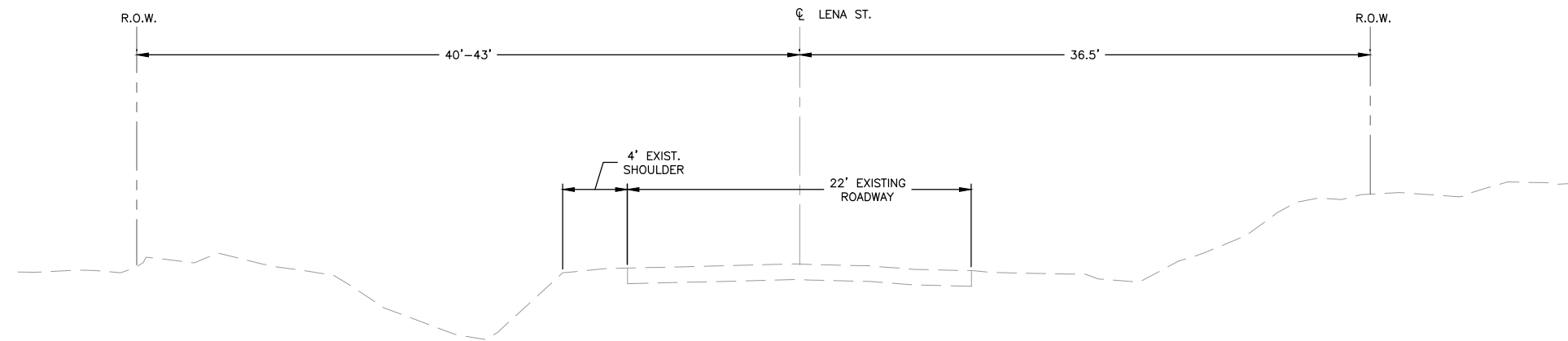
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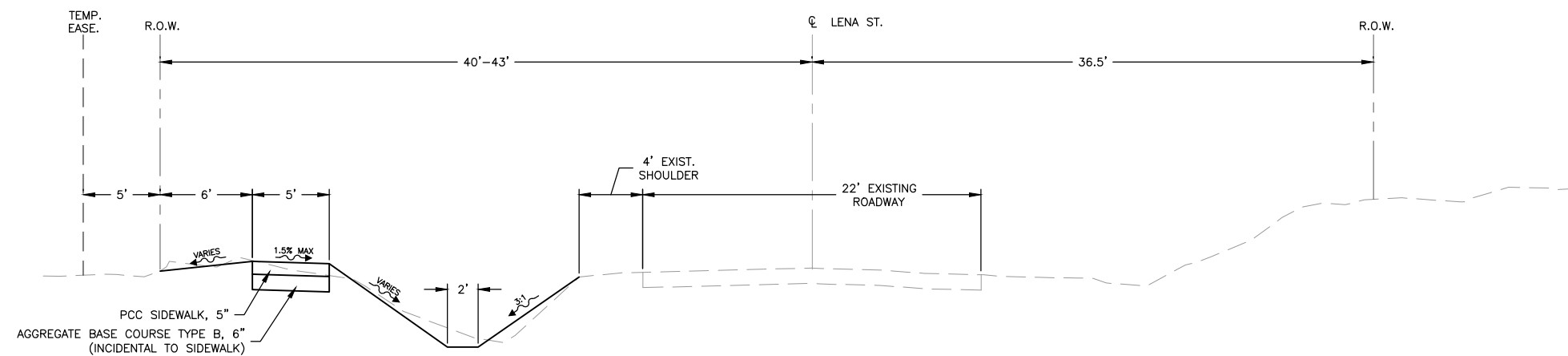
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JOB NUMBER:  
14-785

SHEET NUMBER:  
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**EXISTING CROSS-SECTION LENA STREET**  
STA. 25+75 TO STA. 28+20  
N.T.S.



**PROPOSED CROSS-SECTION LENA STREET**  
STA. 25+75 TO STA. 28+20  
N.T.S.

**FEHR GRAHAM**

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:

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122 EAST MAIN STREET  
LENA, IL 61048

PROJECT AND LOCATION:

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LENA, IL

DRAWN BY: M.S.  
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SCALE: AS NOTED

| REVISIONS |             |      |
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| REV. NO.  | DESCRIPTION | DATE |
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DRAWING:

TYPICAL SECTIONS

SET TYPE:

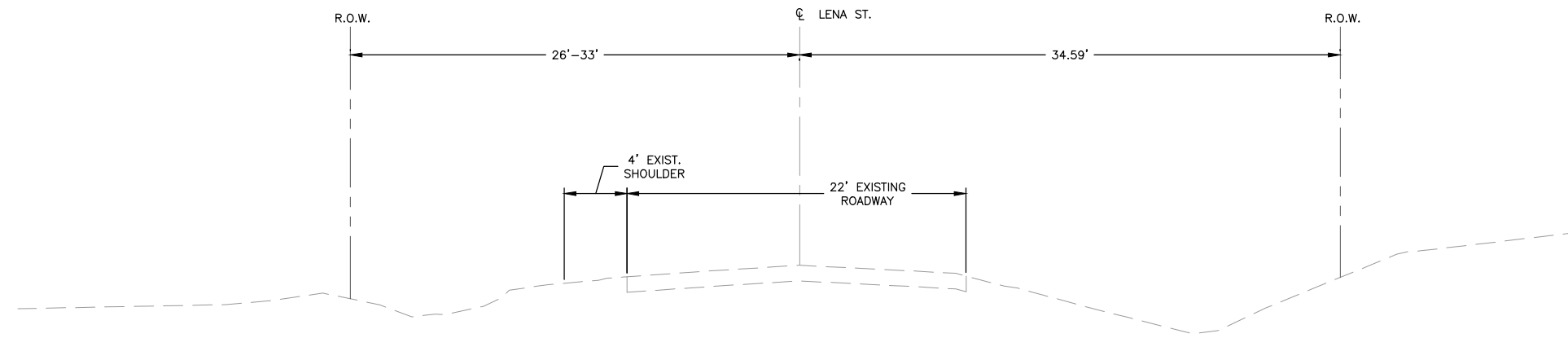
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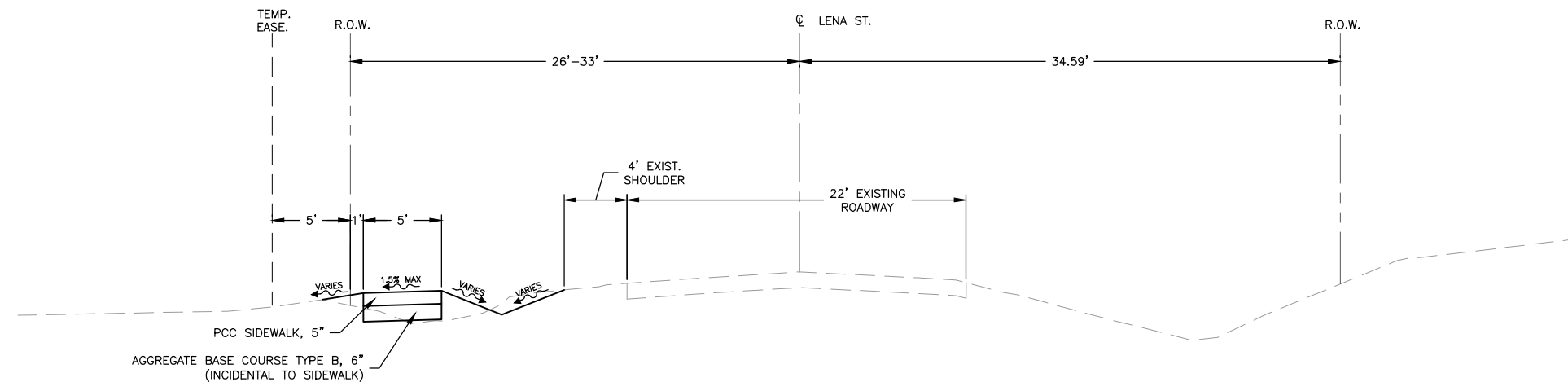
14-785

SHEET NUMBER:

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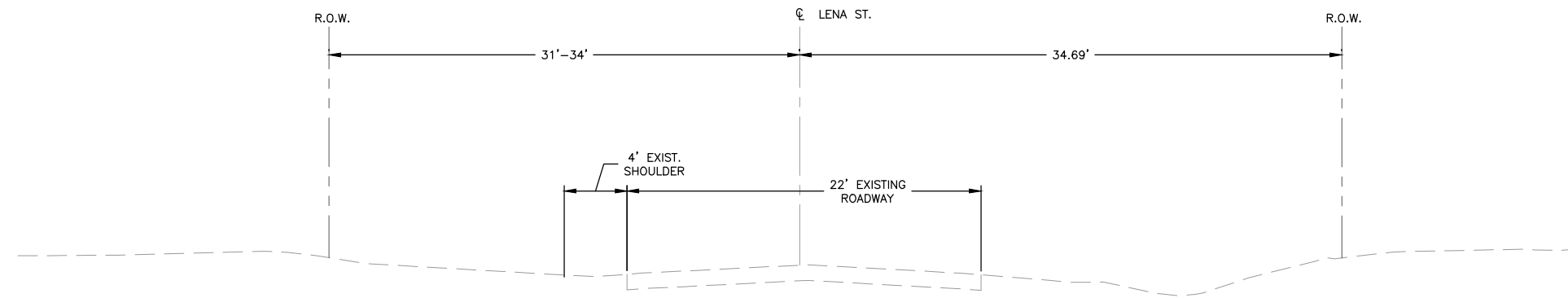
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STA. 28+20 TO STA. 29+85  
N.T.S.



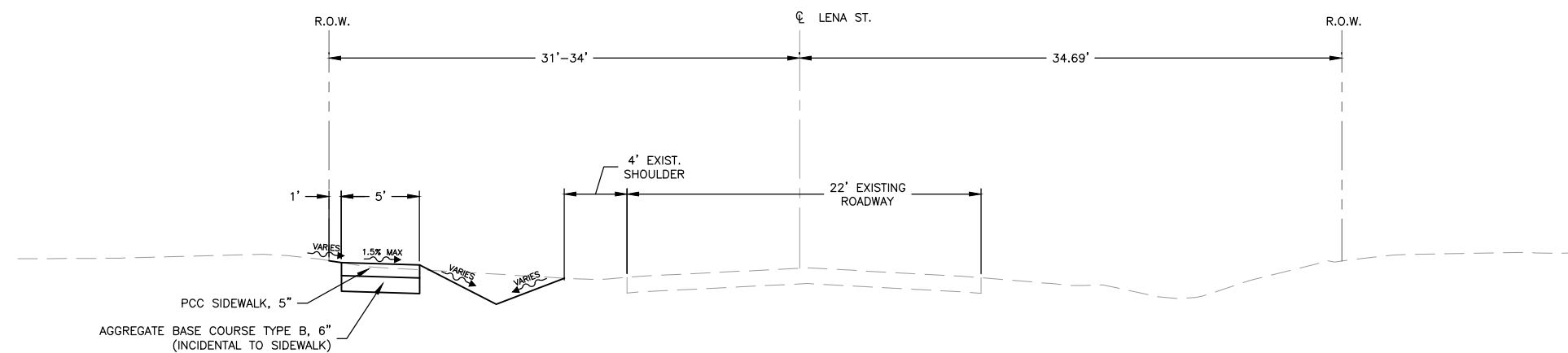
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STA. 28+20 TO STA. 29+85  
N.T.S.

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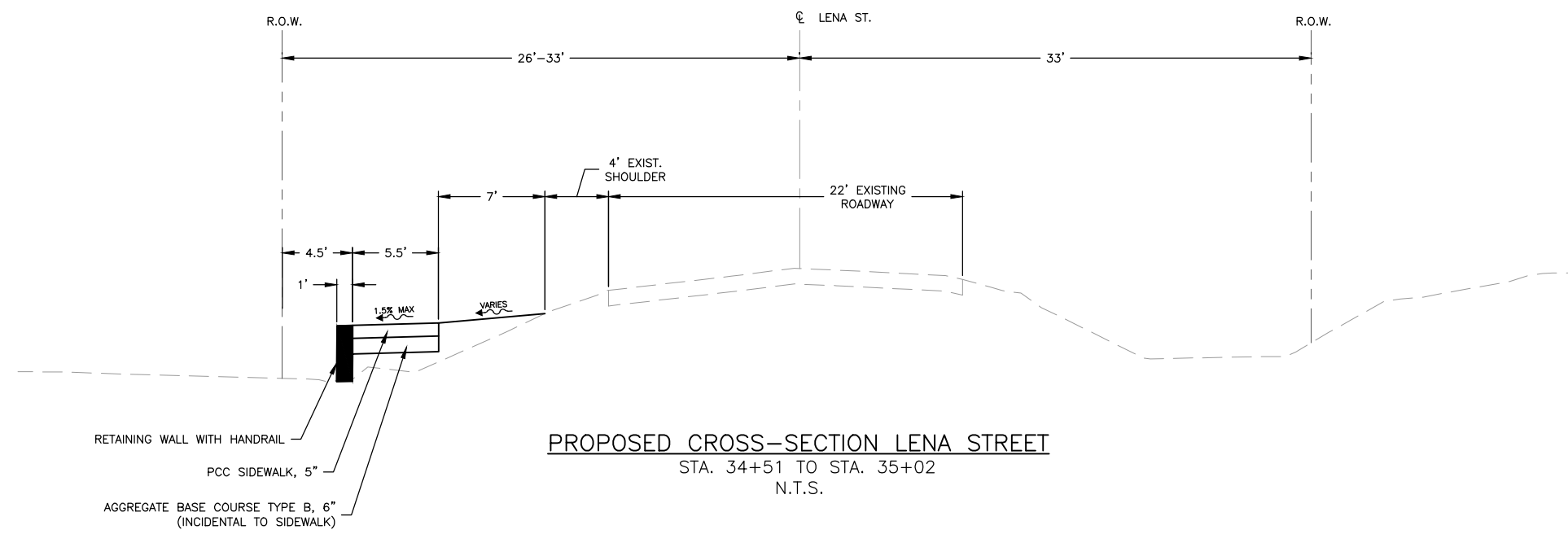
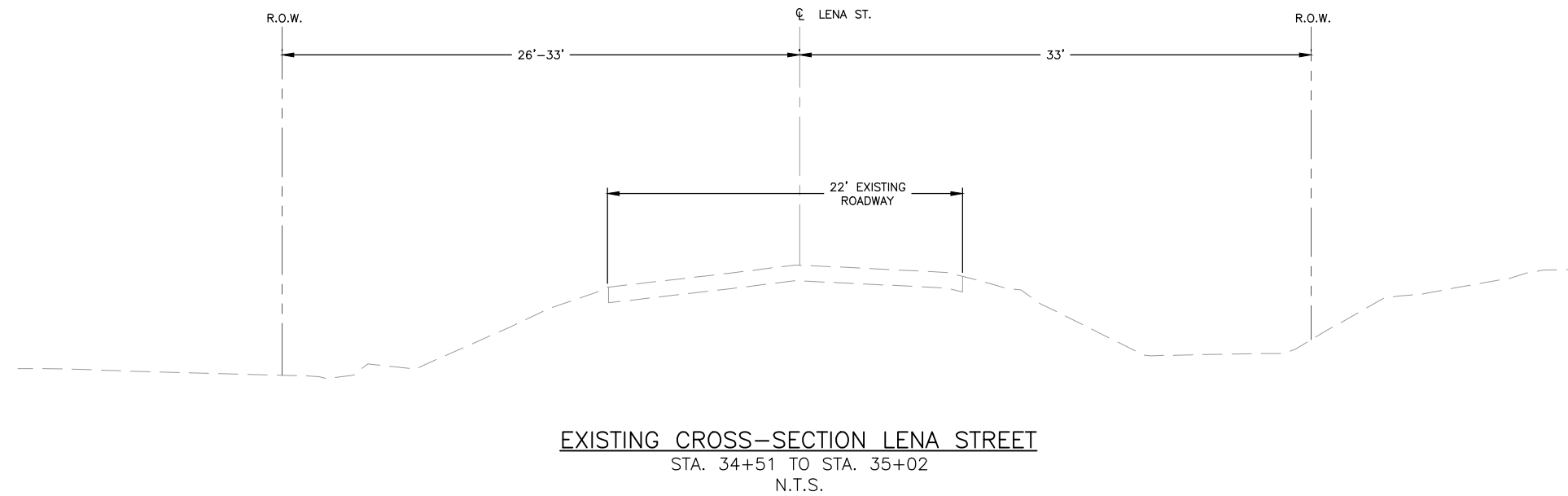


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STA. 29+85 TO STA. 34+51  
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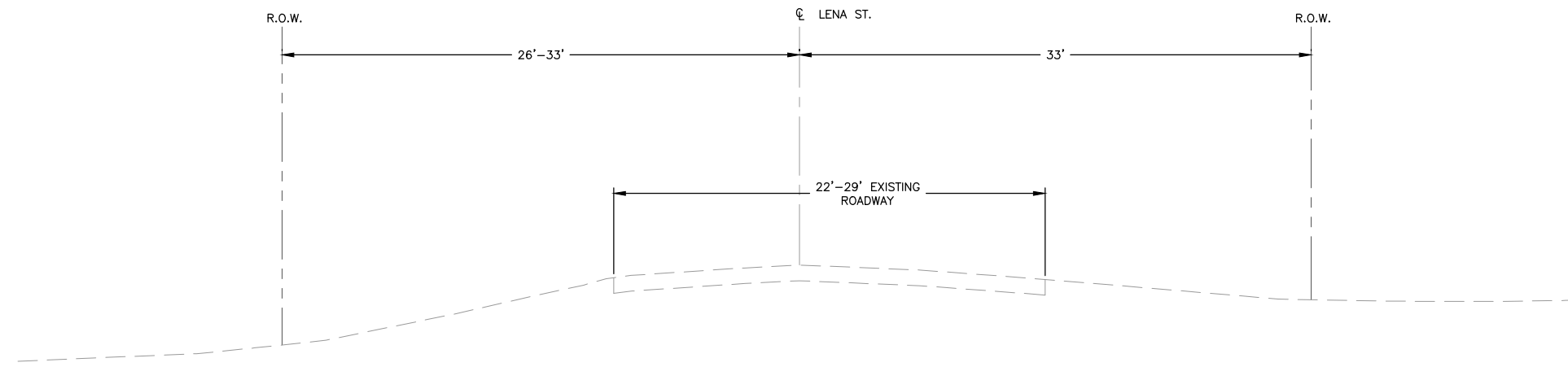


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29+85 TO STA. 34+51  
N.T.S.

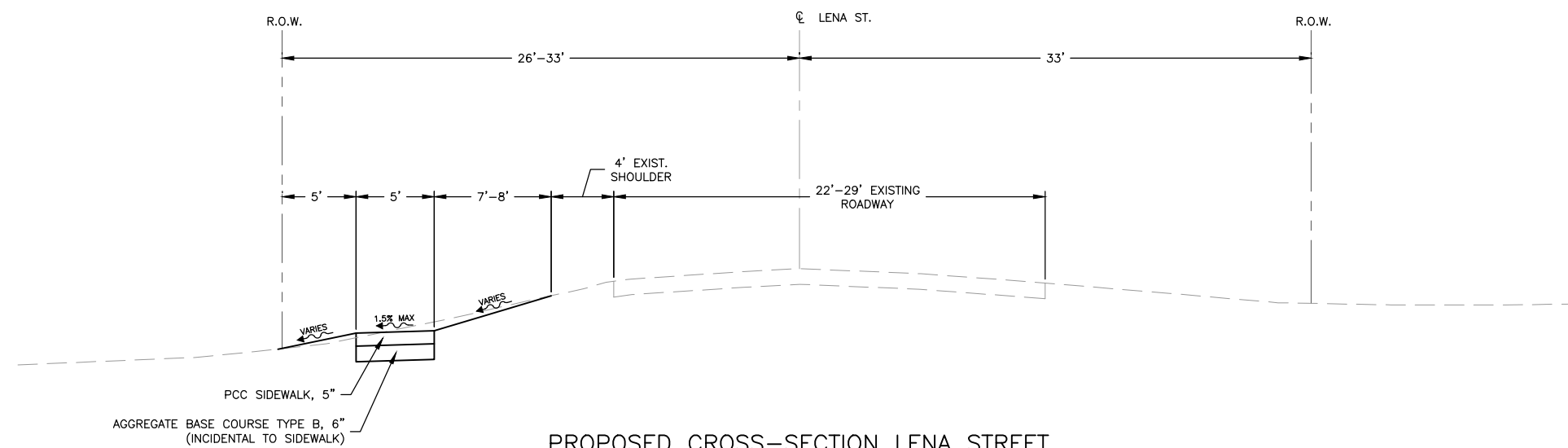
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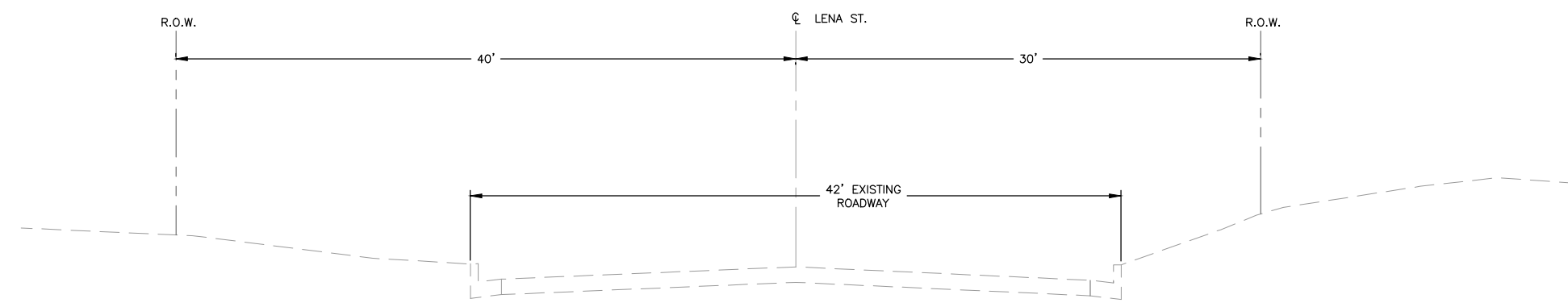


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STA. 35+02 TO STA. 36+78  
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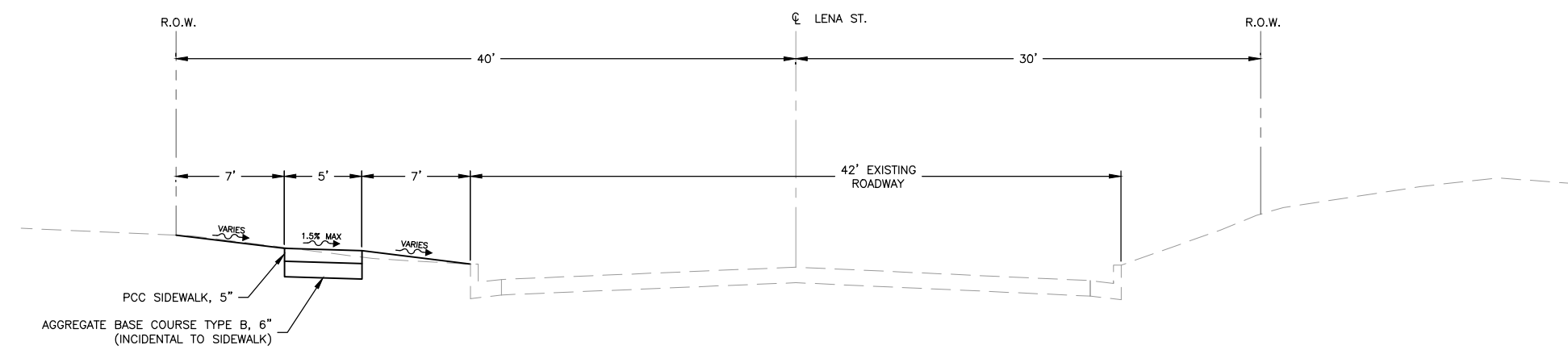


PROPOSED CROSS-SECTION LENA STREET  
STA. 35+02 TO STA. 36+78  
N.T.S.

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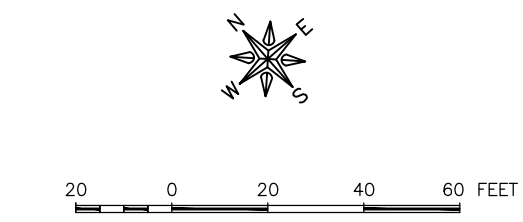
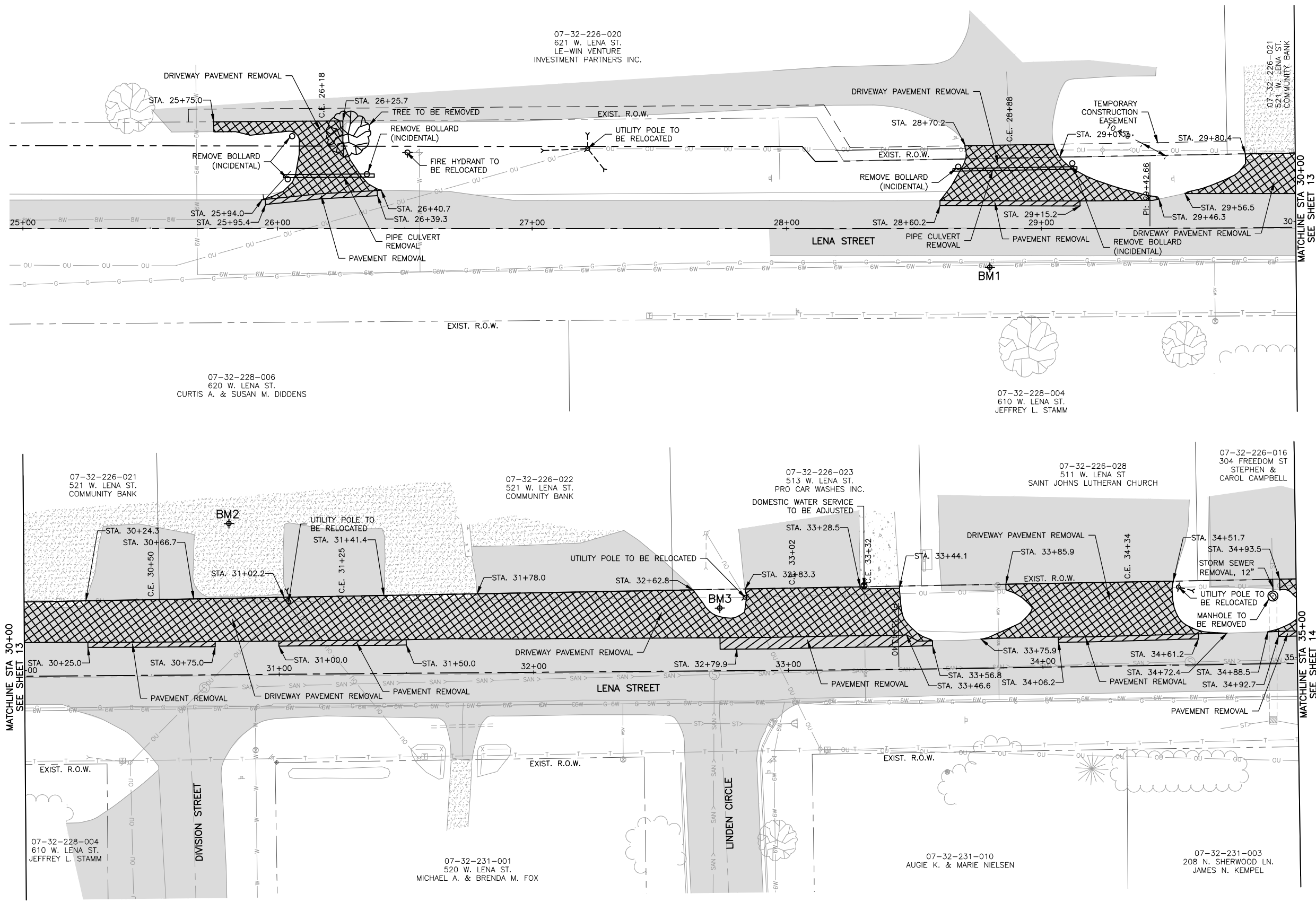


**EXISTING CROSS-SECTION LENA STREET**  
STA. 37+54 TO STA. 46+67  
N.T.S.



**PROPOSED CROSS-SECTION LENA STREET**  
STA. 37+54 TO STA. 46+67  
N.T.S.

| REVISIONS |             |      |
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| REV. NO.  | DESCRIPTION | DATE |
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**BM1**

| BENCHMARK INFORMATION |  |
|-----------------------|--|
| BM1                   | = BM DESCRIPTION (CPRB7)<br>N 2082903.56, E 2387277.53, ELEV 957.09  |
| BM2                   | = BM DESCRIPTION (CPRB21)<br>N 2082828.18, E 2387478.04, ELEV 957.17 |
| BM3                   | = BM DESCRIPTION (CPRB20)<br>N 2082675.98, E 2387600.99, ELEV 952.59 |

**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS  
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OWNER/DEVELOPER:  
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122 EAST MAIN STREET  
LENA, IL 61048

PROJECT AND LOCATION:  
SIDEWALK IMPROVEMENTS  
LENA, IL

DRAWN BY: M.S.  
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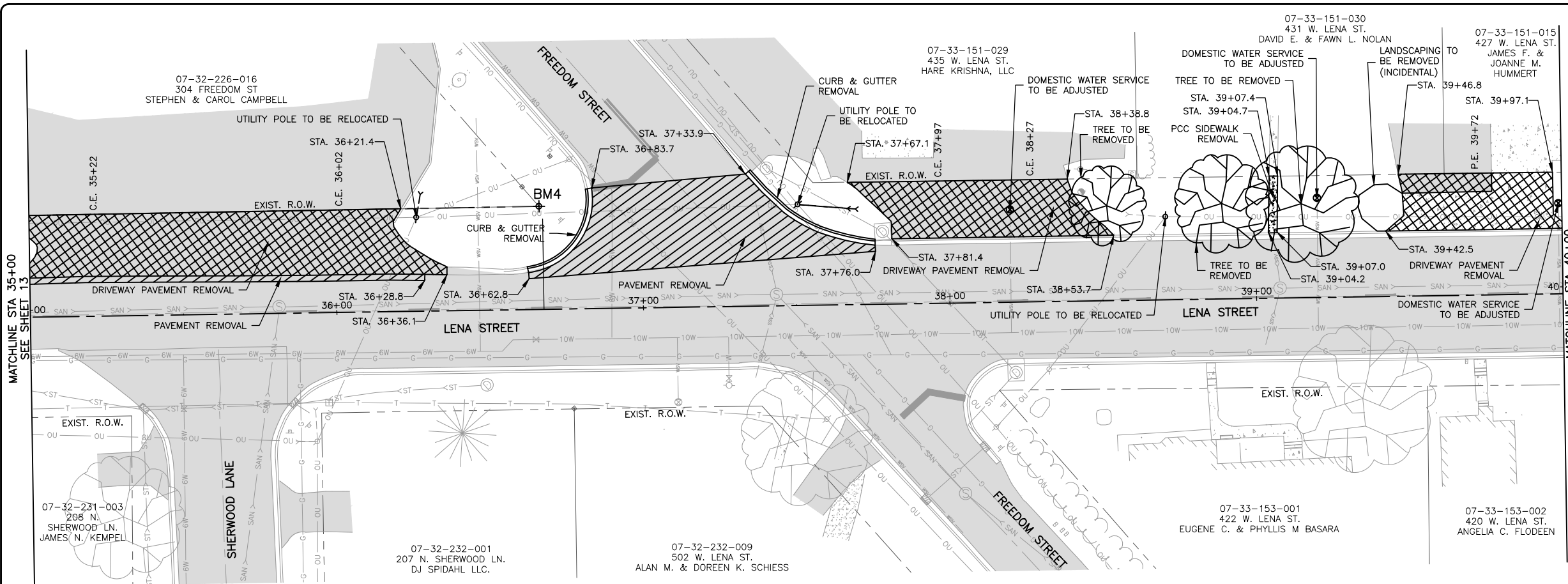
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DRAWING:  
REMOVAL PLAN 25+00 TO 35+00

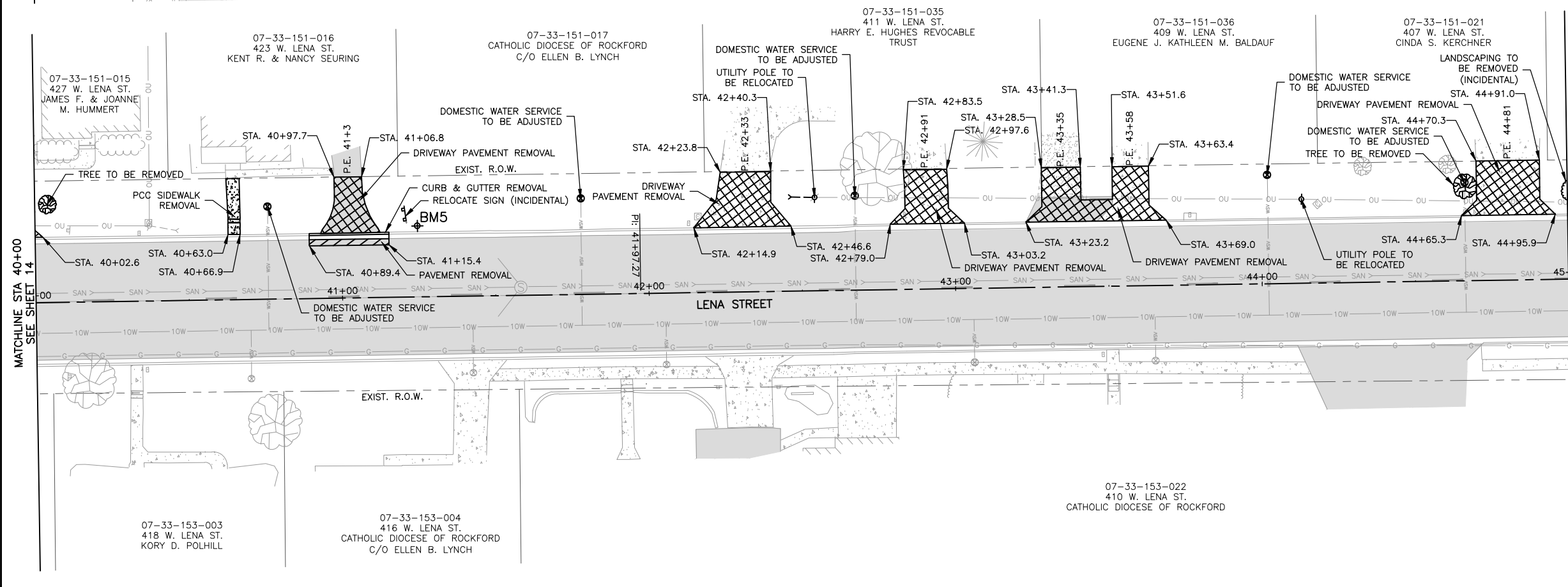
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JOB NUMBER:  
14-785

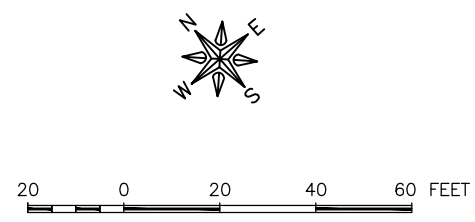
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MATCHLINE STA 40+00  
SEE SHEET 14



MATCHLINE STA 45+00  
SEE SHEET 15



**BM1+**

**BENCHMARK INFORMATION**

|   |
|---|
| BM4 = BM DESCRIPTION (CPRB8)            |
| N 2082427.65, E 2387905.62, ELEV 949.86 |
| BM5 = BM DESCRIPTION (CPRB23)           |
| N 2082122.54, E 2388247.80, ELEV 953.89 |

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LENA, IL

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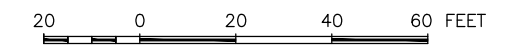
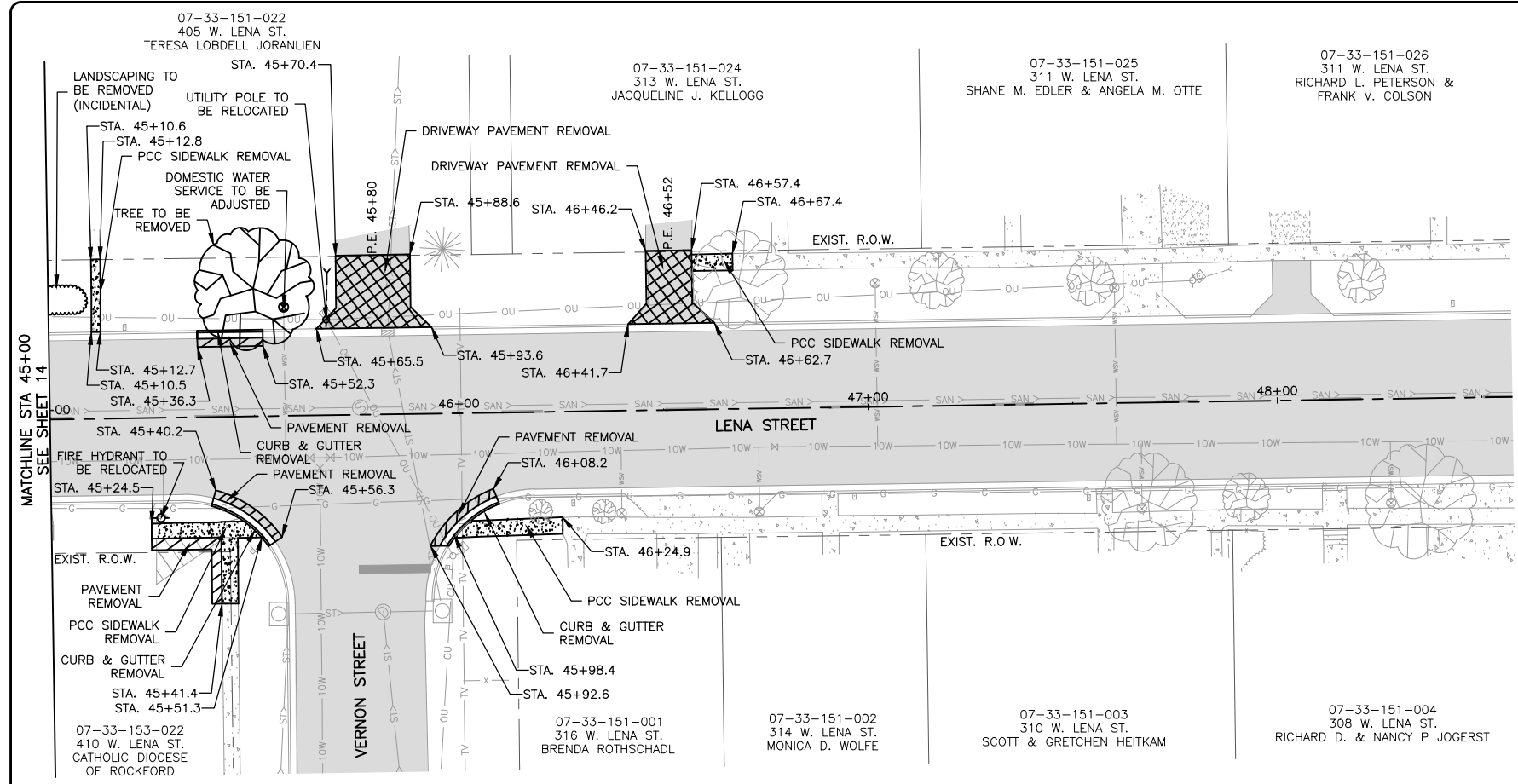
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DRAWING:  
REMOVAL PLAN 35+00 TO 45+00

SHEET TYPE:  
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JOB NUMBER:  
14-785

SHEET NUMBER:  
14 of 41



**FEHR GRAHAM**  
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OWNER/DEVELOPER:  
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122 EAST MAIN STREET  
LENA, IL 61048

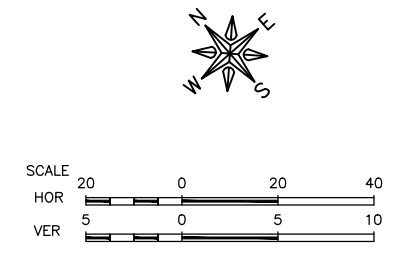
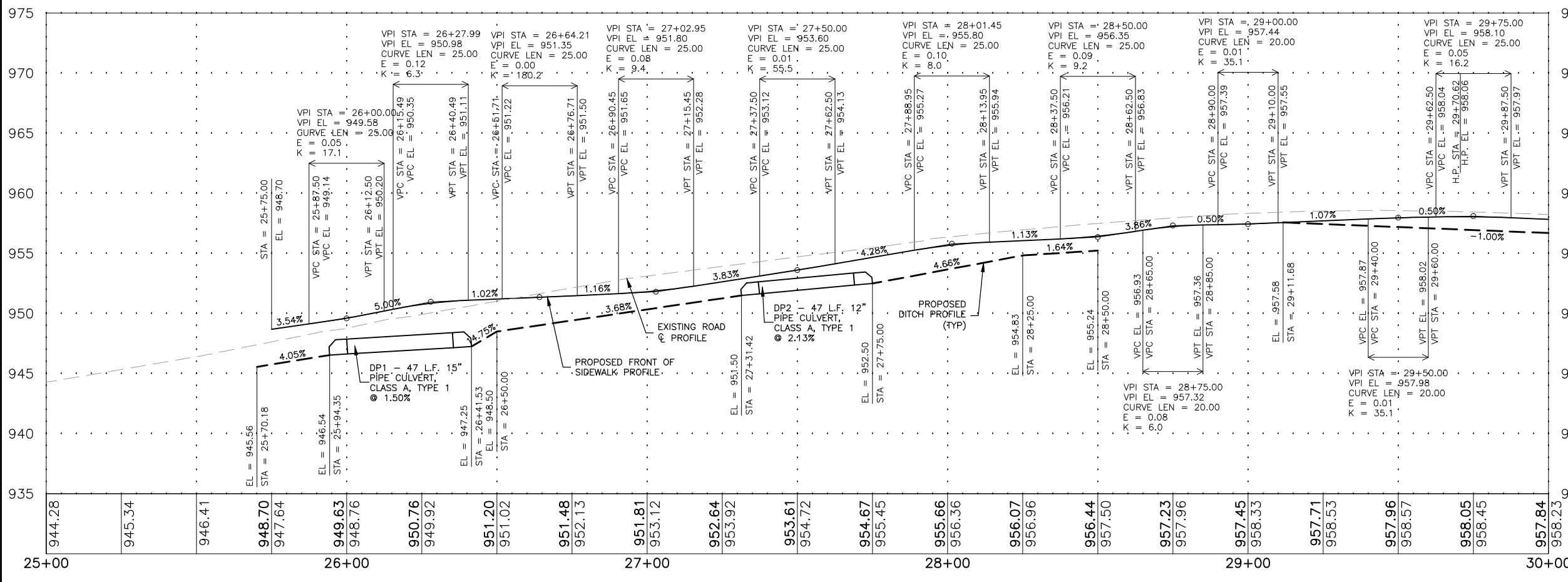
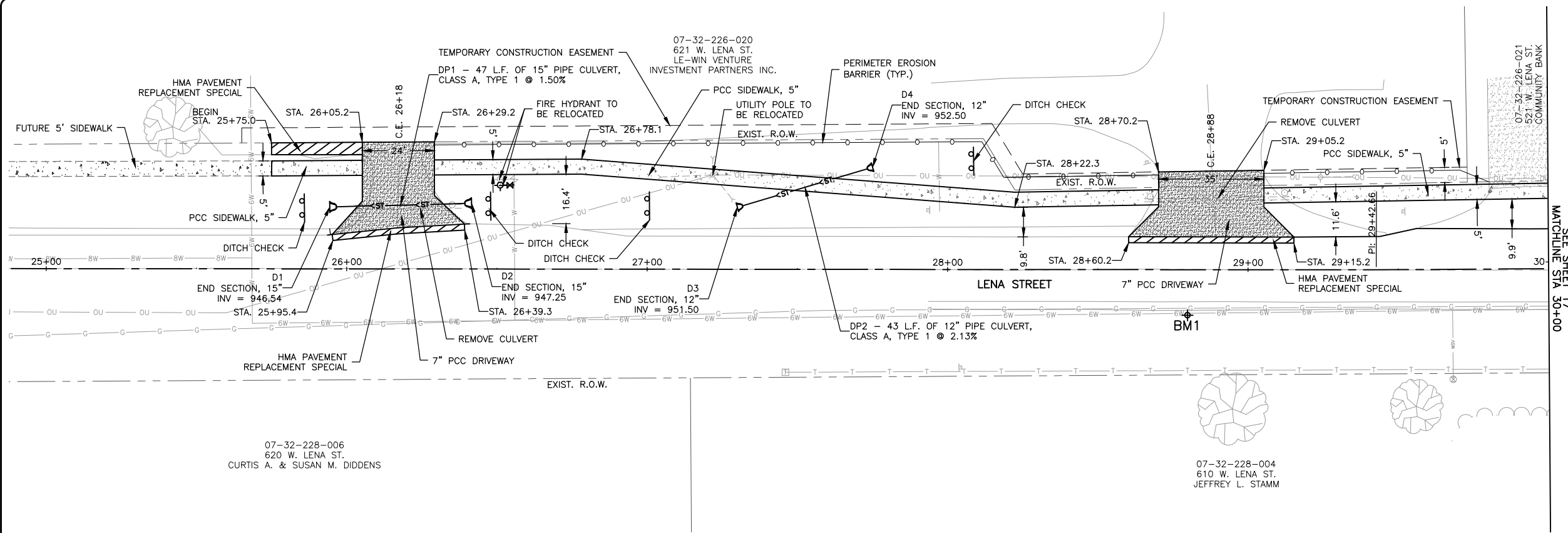
PROJECT AND LOCATION:  
SIDEWALK IMPROVEMENTS  
LENA, IL

DRAWN BY: M.S.  
APPROVED BY: P.E.  
DATE: 3/13/18  
SCALE: AS NOTED

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| REV. NO.  | DESCRIPTION | DATE |
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DRAWING:  
REMOVAL PLAN 45+00 TO 48+00  
SET TYPE:  
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JOB NUMBER:  
14-785  
SHEET NUMBER:  
15 of 41



**BENCHMARK INFORMATION**

BM1 = BM DESCRIPTION (CPRB7)  
N 2082903.56, E 2387277.53, ELEV 957.09

**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525

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122 EAST MAIN STREET  
LENA, IL 61048

PROJECT AND LOCATION:  
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SCALE: AS NOTED

| REVISIONS |             |      |
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| REV. NO.  | DESCRIPTION | DATE |
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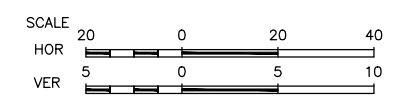
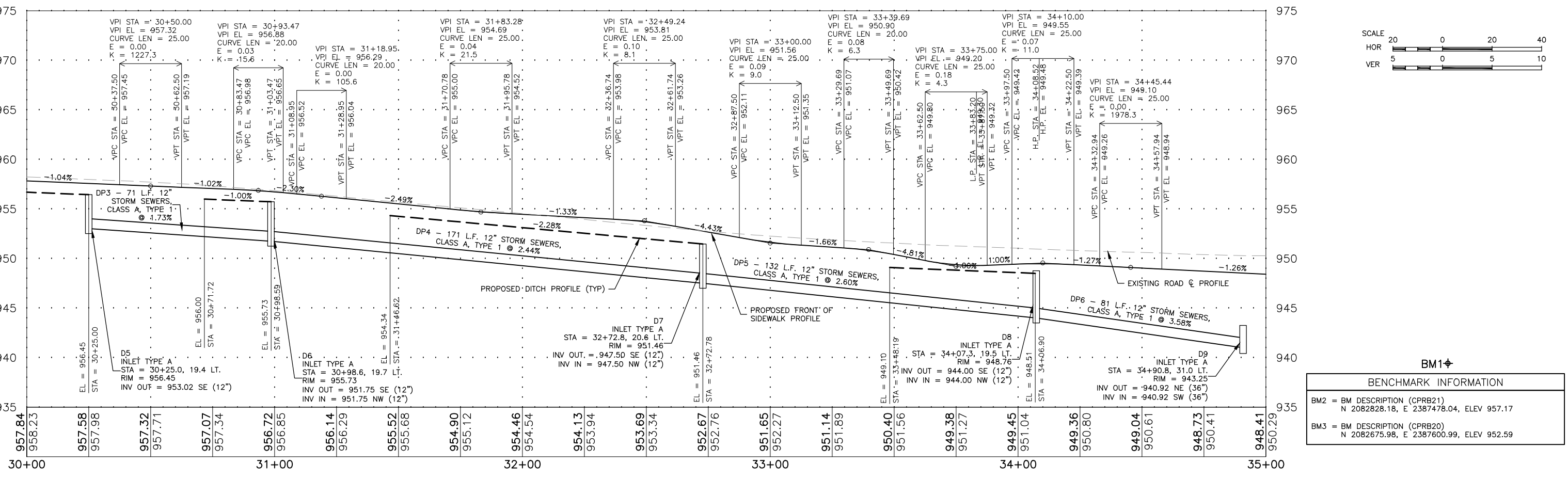
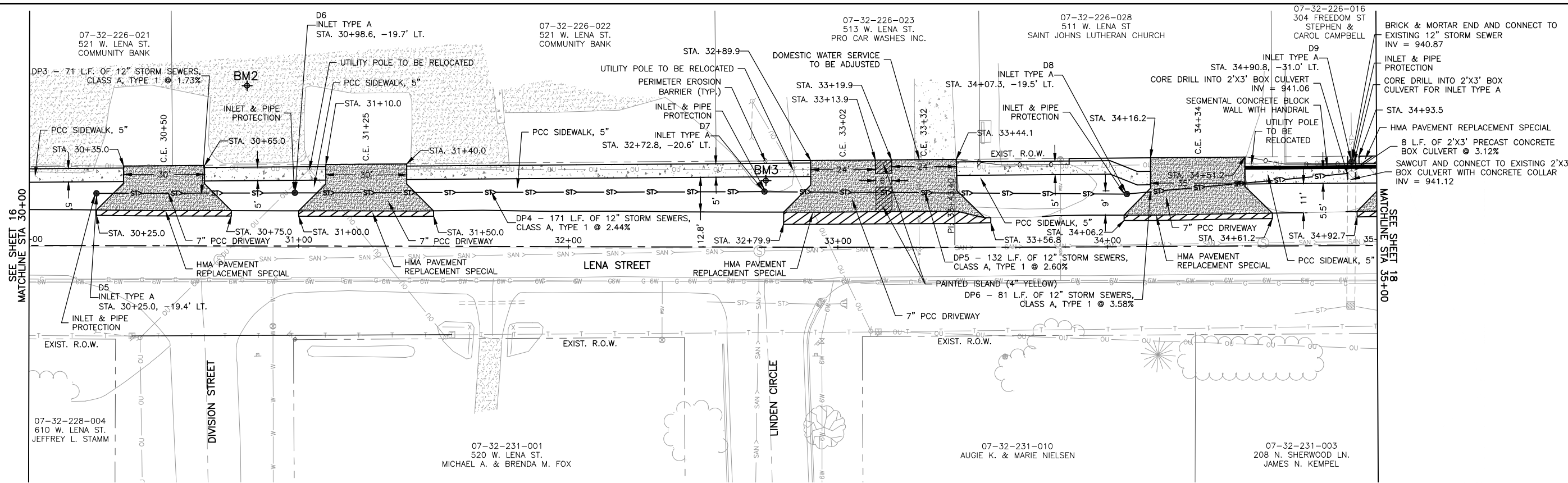
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JOB NUMBER:  
14-785

SHEET NUMBER:  
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| BENCHMARK INFORMATION |  |
|-----------------------|--|
| BM2                   | BM DESCRIPTION (CPRB21)<br>N 2082828.18, E 2387478.04, ELEV 957.17 |
| BM3                   | BM DESCRIPTION (CPRB20)<br>N 2082675.98, E 2387600.99, ELEV 952.59 |

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SCALE: AS NOTED

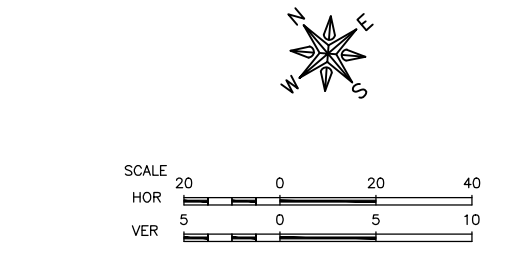
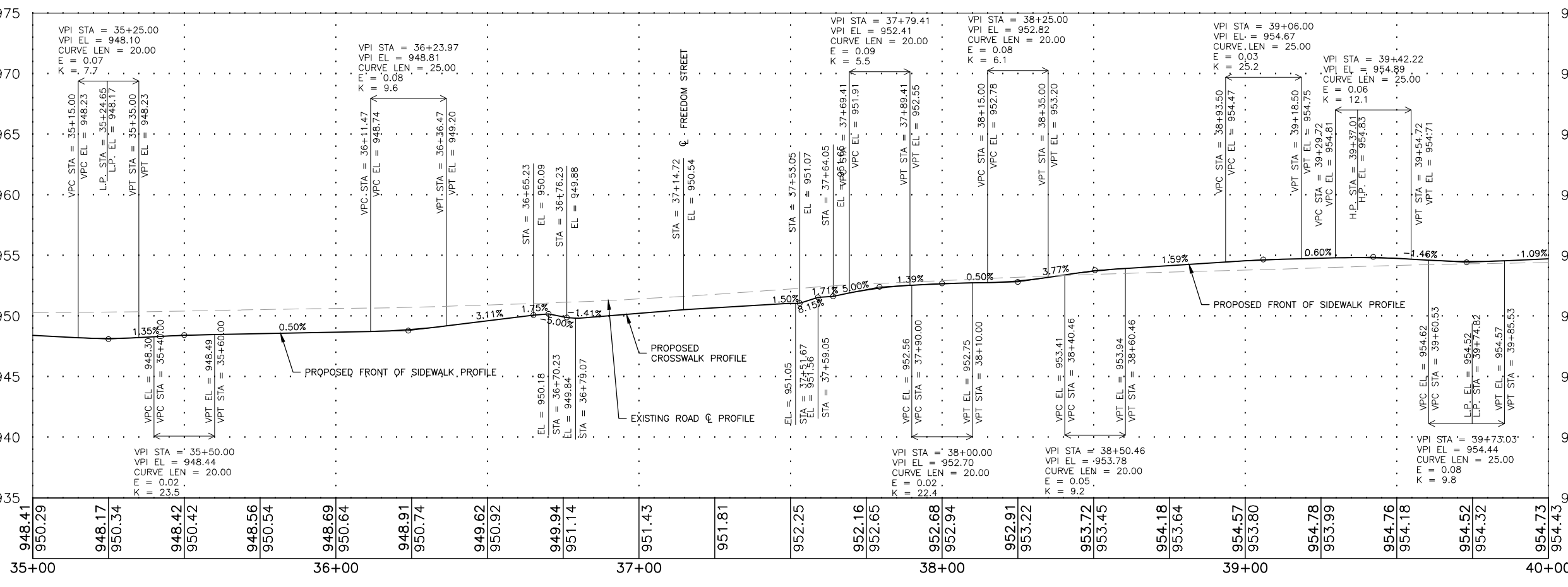
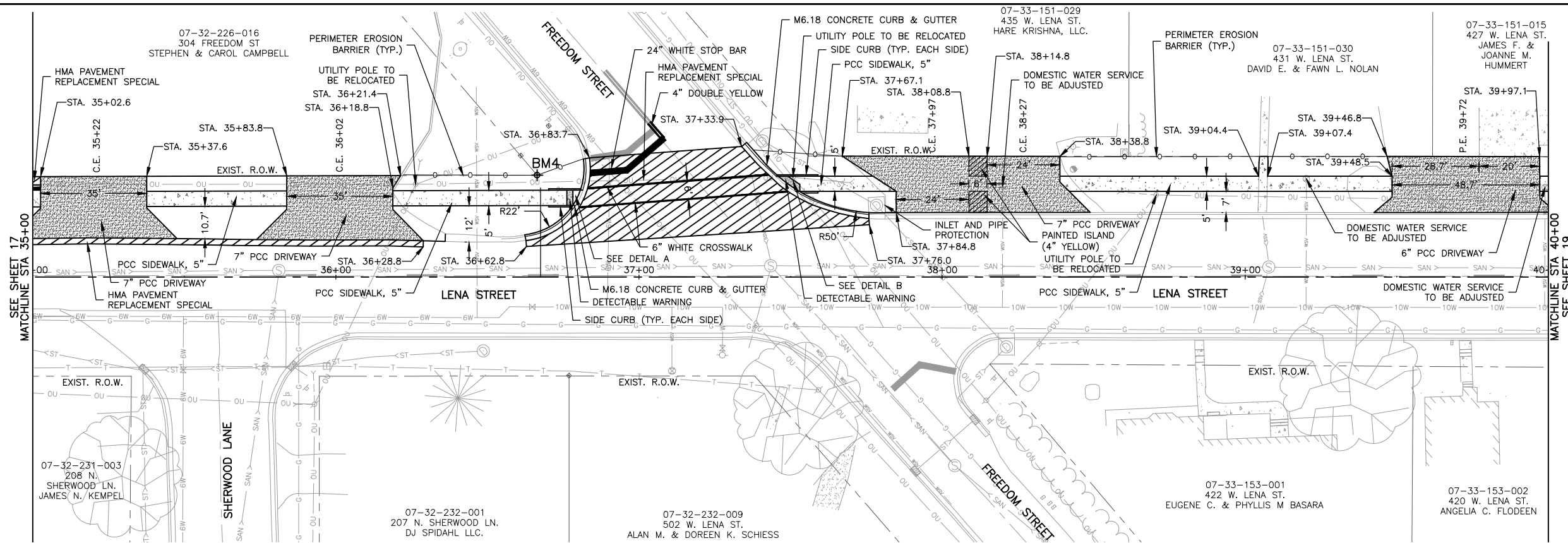
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DRAWING:  
PLAN AND PROFILE STA. 30+00 TO 35+00

SET TYPE:  
G:\3014\14-785\14-785 Design.dwg, P&P2

JOB NUMBER:  
14-785

SHEET NUMBER:  
17 of 41



**BENCHMARK INFORMATION**

BM4 = BM DESCRIPTION (CPR88)  
N 2082427.65, E 2387905.62, ELEV 949.86

**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
VILLAGE OF LENA  
122 EAST MAIN STREET  
LENA, IL 61048

PROJECT AND LOCATION:  
SIDEWALK IMPROVEMENTS  
LENA, IL

DRAWN BY: M.S.  
APPROVED BY: P.E.  
DATE: 3/13/18  
SCALE: AS NOTED

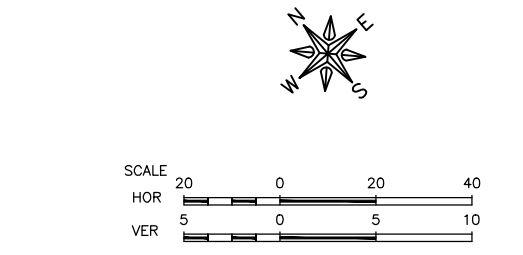
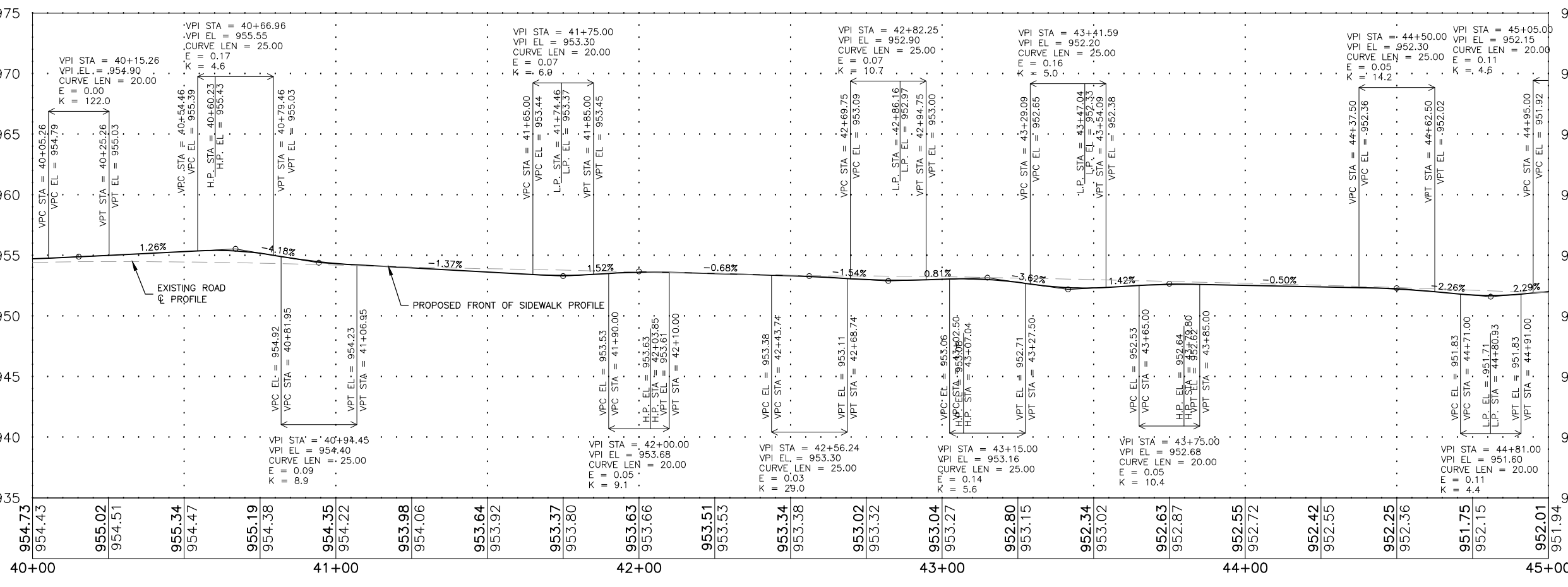
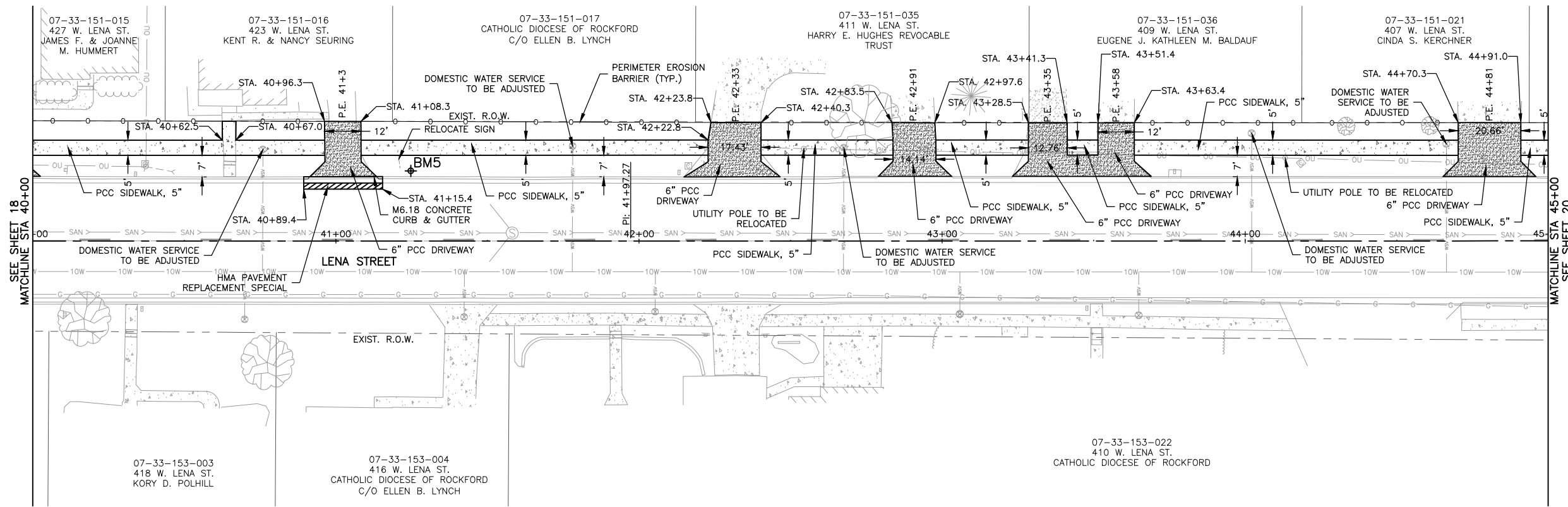
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| REV. NO.  | DESCRIPTION | DATE |
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DRAWING:  
PLAN AND PROFILE STA. 35+00 TO 40+00

SET TYPE:  
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JOB NUMBER:  
14-785

SHEET NUMBER:  
18 of 41



**BENCHMARK INFORMATION**

BM5 = BM DESCRIPTION (CPRB23)  
N 2082122.54, E 2388247.80, ELEV 953.89

**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
VILLAGE OF LENA  
122 EAST MAIN STREET  
LENA, IL 61048

PROJECT AND LOCATION:  
SIDEWALK IMPROVEMENTS  
LENA, IL

DRAWN BY: M.S.  
APPROVED BY: P.E.  
DATE: 3/13/18  
SCALE: AS NOTED

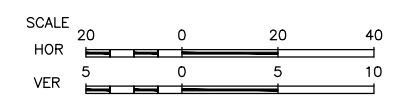
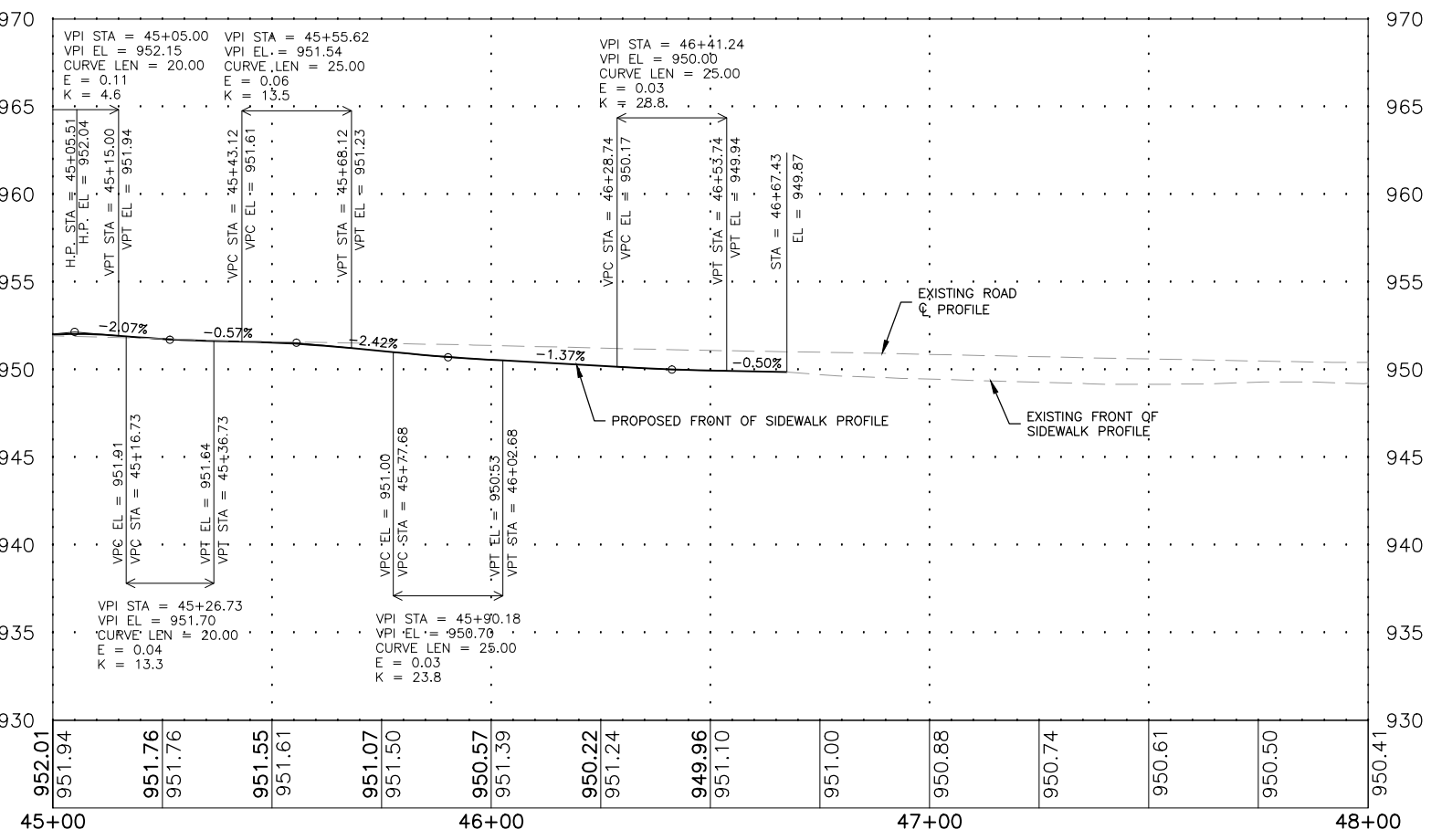
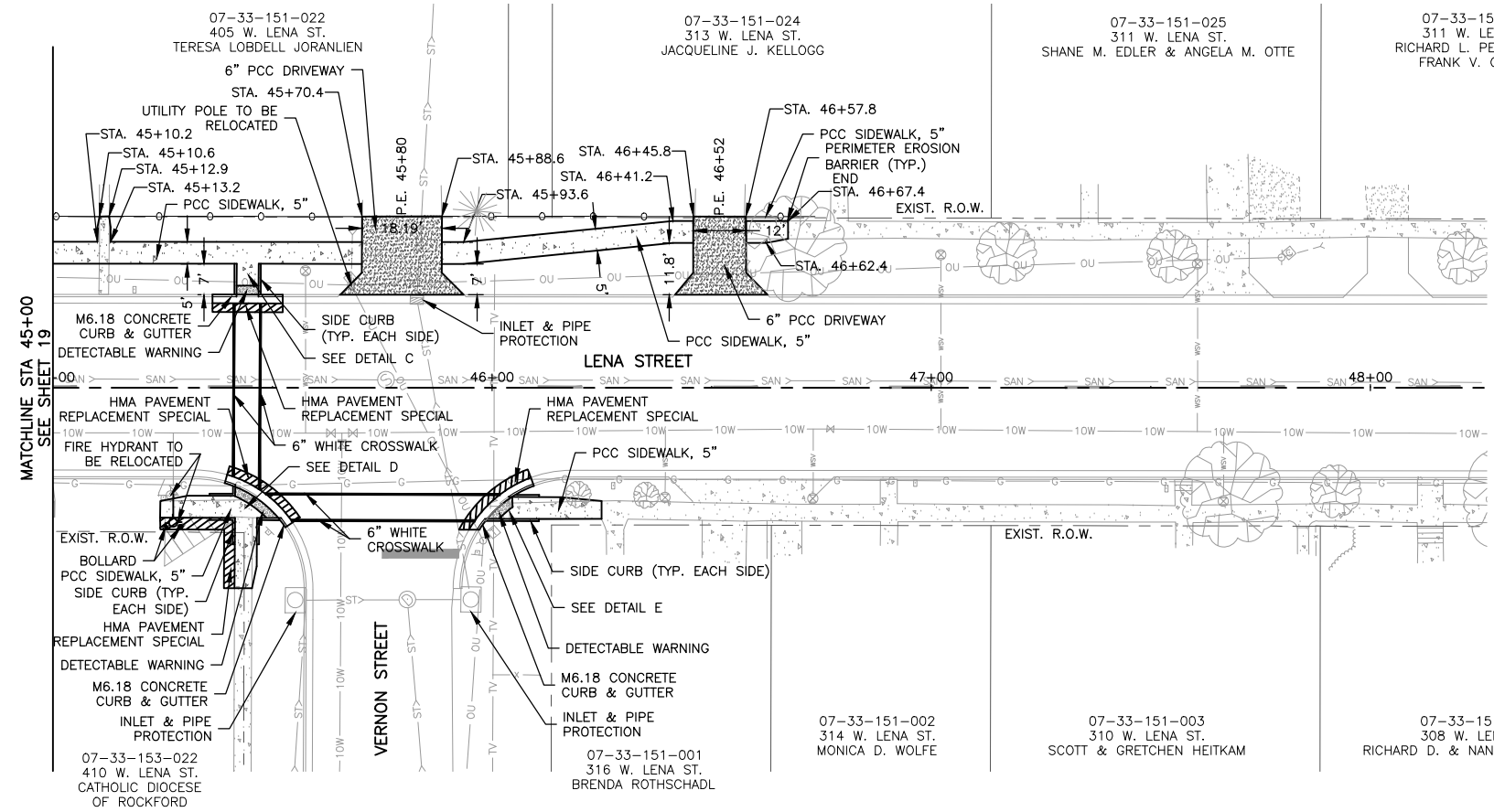
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| REV. NO.  | DESCRIPTION | DATE |
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|           |             |      |
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DRAWING:  
PLAN AND PROFILE STA. 40+00 TO 45+00

SET TYPE:  
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JOB NUMBER:  
14-785

SHEET NUMBER:  
19 of 41



**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
VILLAGE OF LENA  
122 EAST MAIN STREET  
LENA, IL 61048

PROJECT AND LOCATION:  
SIDEWALK IMPROVEMENTS  
LENA, IL

DRAWN BY: M.S.  
APPROVED BY: P.E.  
DATE: 3/13/18  
SCALE: AS NOTED

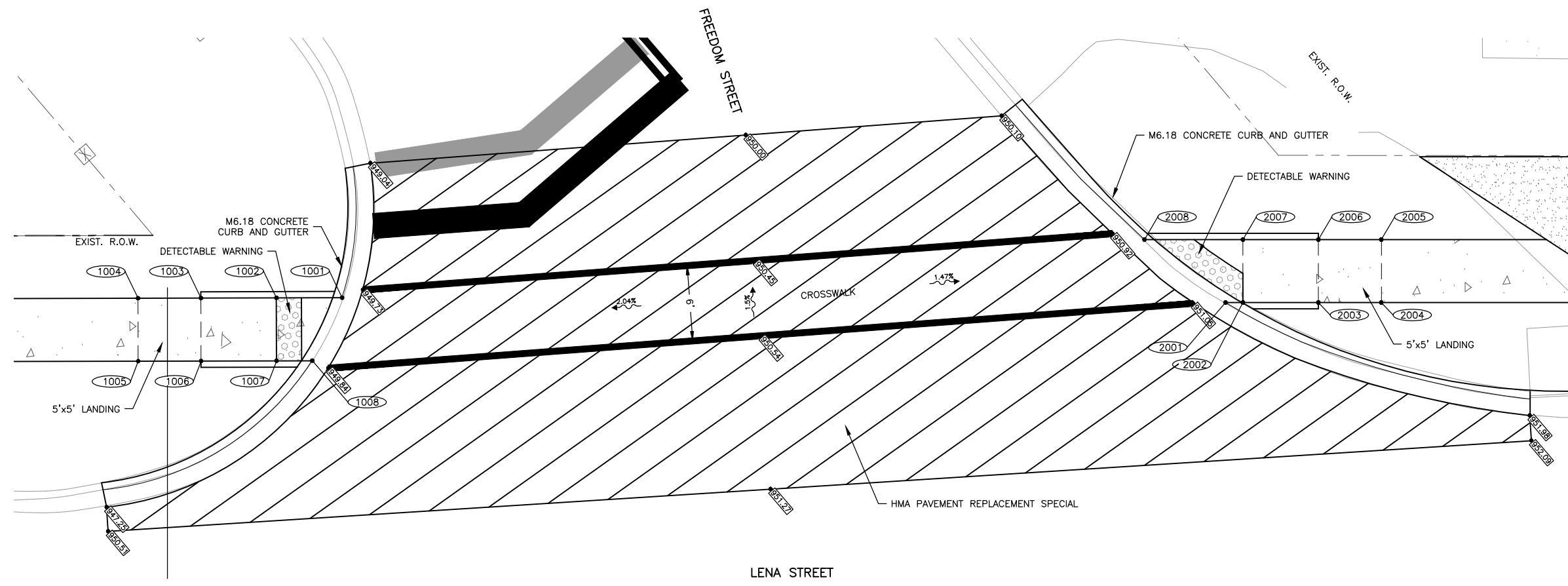
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| REV. NO.  | DESCRIPTION | DATE |
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DRAWING:  
PLAN AND PROFILE STA. 45+00 TO 48+00

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JOB NUMBER:  
14-785

SHEET NUMBER:  
20 of 41



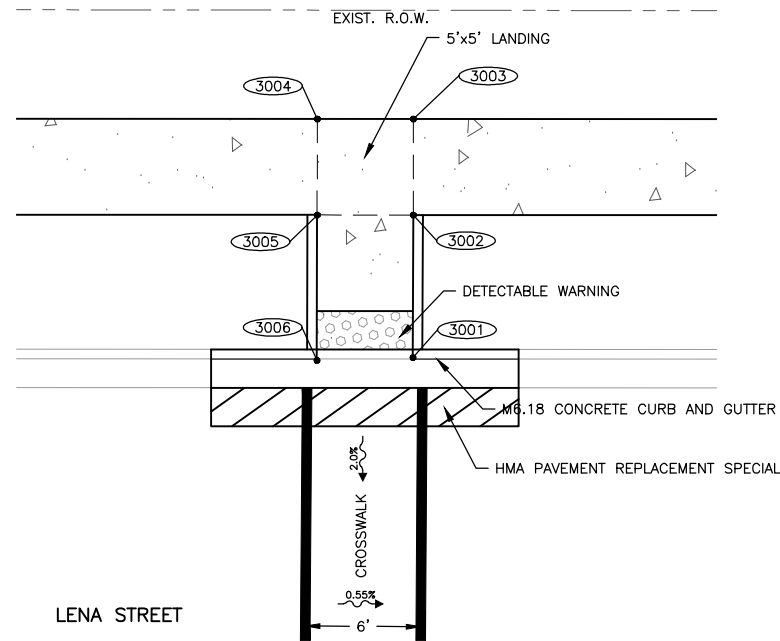
DETAIL A (STA 36+80 LT)  
SCALE: 1" = 5'-0"

DETAIL B (STA 37+49 RT)  
SCALE: 1" = 5'-0"

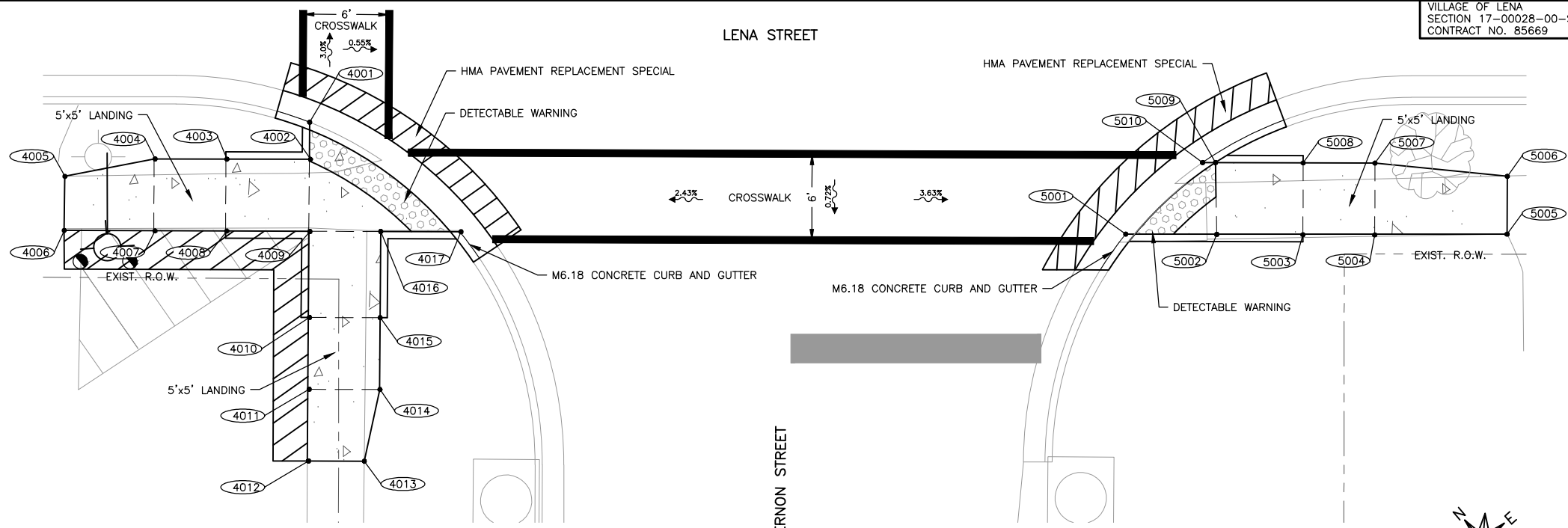


| SIDEWALK COMPLIANCE |      |                       |          |             |       |                                 |       |          |   |          |        |            |
|---------------------|------|-----------------------|----------|-------------|-------|---------------------------------|-------|----------|---|----------|--------|------------|
| POINT TO POINT      |      | SIDEWALK DESIGNATIONS | DISTANCE | Δ ELEVATION | SLOPE | ACCEPTABLE RANGE (POS. OR NEG.) |       | COMMENTS | FOR INFORMATION ONLY: VALUES USED TO BE DETERMINE DESIGNED SLOPES |          |        |            |
|                     |      |                       | FT       | FT          | %     | MIN.                            | MAX.  |          | POINT   | STATION  | OFFSET | ELEVATIONS |
| 1001                | 1002 | LANDING               | 5.23     | 0.08        | 1.53% | 0.10%                           | 2.00% | DETAIL A | 1001  | 36+81.45 | 28.65  | 949.73     |
| 1002                | 1003 | RAMP RUNNING SLOPE    | 6.00     | 0.29        | 4.83% | 0.50%                           | 8.33% | DETAIL A | 1002  | 36+76.22 | 28.64  | 949.81     |
| 1003                | 1004 | LANDING               | 5.00     | 0.08        | 1.60% | 0.10%                           | 2.00% | DETAIL A | 1003  | 36+70.22 | 28.62  | 950.10     |
| 1004                | 1005 | LANDING               | 5.00     | 0.07        | 1.40% | 0.10%                           | 2.00% | DETAIL A | 1004  | 36+65.22 | 28.61  | 950.02     |
| 1005                | 1006 | LANDING               | 5.00     | 0.09        | 1.80% | 0.10%                           | 2.00% | DETAIL A | 1005  | 36+65.22 | 23.61  | 950.09     |
| 1006                | 1007 | RAMP RUNNING SLOPE    | 6.00     | 0.30        | 5.00% | 0.50%                           | 8.33% | DETAIL A | 1006  | 36+70.22 | 23.62  | 950.18     |
| 1007                | 1008 | LANDING               | 2.85     | 0.04        | 1.40% | 0.10%                           | 2.00% | DETAIL A | 1007  | 36+76.22 | 23.64  | 949.88     |
| 1001                | 1008 | LANDING               | 5.58     | 0.11        | 1.97% | 0.10%                           | 2.00% | DETAIL A | 1008  | 39+79.07 | 23.65  | 949.84     |
| 1002                | 1007 | RAMP CROSS SLOPE      | 5.00     | 0.07        | 1.40% | 0.10%                           | 2.00% | DETAIL A |   |          |        |            |
| 1003                | 1006 | RAMP CROSS SLOPE      | 5.00     | 0.08        | 1.60% | 0.10%                           | 2.00% | DETAIL A |   |          |        |            |

| SIDEWALK COMPLIANCE |      |                       |          |             |       |                                 |       |          |   |          |        |            |
|---------------------|------|-----------------------|----------|-------------|-------|---------------------------------|-------|----------|---|----------|--------|------------|
| POINT TO POINT      |      | SIDEWALK DESIGNATIONS | DISTANCE | Δ ELEVATION | SLOPE | ACCEPTABLE RANGE (POS. OR NEG.) |       | COMMENTS | FOR INFORMATION ONLY: VALUES USED TO BE DETERMINE DESIGNED SLOPES |          |        |            |
|                     |      |                       | FT       | FT          | %     | MIN.                            | MAX.  |          | POINT   | STATION  | OFFSET | ELEVATIONS |
| 2001                | 2002 | LANDING               | 1.38     | 0.02        | 1.45% | 0.10%                           | 2.00% | DETAIL B | 2001  | 37+51.67 | 28.27  | 951.05     |
| 2002                | 2003 | RAMP RUNNING SLOPE    | 6.00     | 0.49        | 8.17% | 0.50%                           | 8.33% | DETAIL B | 2002  | 37+53.05 | 28.27  | 951.07     |
| 2003                | 2004 | LANDING               | 5.00     | 0.09        | 1.80% | 0.10%                           | 2.00% | DETAIL B | 2003  | 37+59.05 | 28.27  | 951.56     |
| 2004                | 2005 | LANDING               | 5.00     | 0.05        | 1.00% | 0.10%                           | 2.00% | DETAIL B | 2004  | 37+64.05 | 28.27  | 951.65     |
| 2005                | 2006 | LANDING               | 5.00     | 0.08        | 1.60% | 0.10%                           | 2.00% | DETAIL B | 2005  | 37+64.05 | 33.27  | 951.60     |
| 2006                | 2007 | RAMP RUNNING SLOPE    | 6.00     | 0.48        | 8.00% | 0.50%                           | 8.33% | DETAIL B | 2006  | 37+59.05 | 33.27  | 951.52     |
| 2007                | 2008 | LANDING               | 7.83     | 0.12        | 1.53% | 0.10%                           | 2.00% | DETAIL B | 2007  | 37+53.05 | 33.27  | 951.04     |
| 2001                | 2008 | LANDING               | 8.15     | 0.13        | 1.60% | 0.10%                           | 2.00% | DETAIL B | 2008  | 37+45.22 | 33.27  | 950.92     |
| 2002                | 2007 | RAMP CROSS SLOPE      | 5.00     | 0.03        | 0.60% | 0.10%                           | 2.00% | DETAIL B |   |          |        |            |
| 2003                | 2006 | RAMP CROSS SLOPE      | 5.00     | 0.04        | 0.80% | 0.10%                           | 2.00% | DETAIL B |   |          |        |            |



DETAIL C (STA 45+44 LT)  
SCALE: 1" = 5'-0"



DETAIL D (STA 45+44 RT)  
SCALE: 1" = 5'-0"

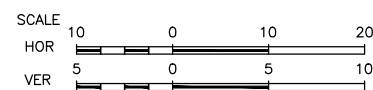
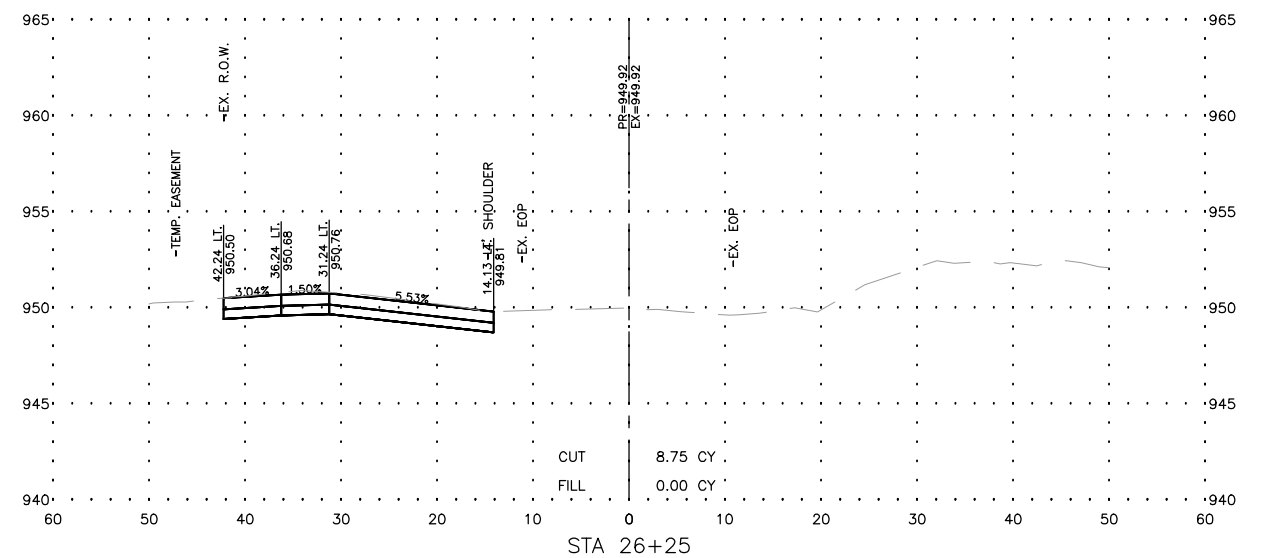
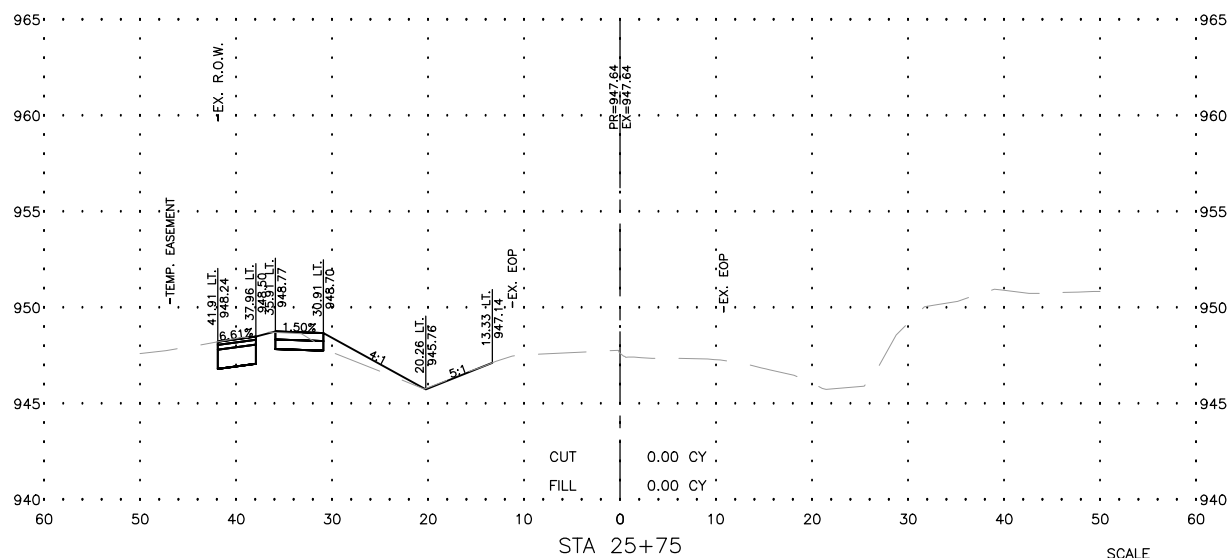
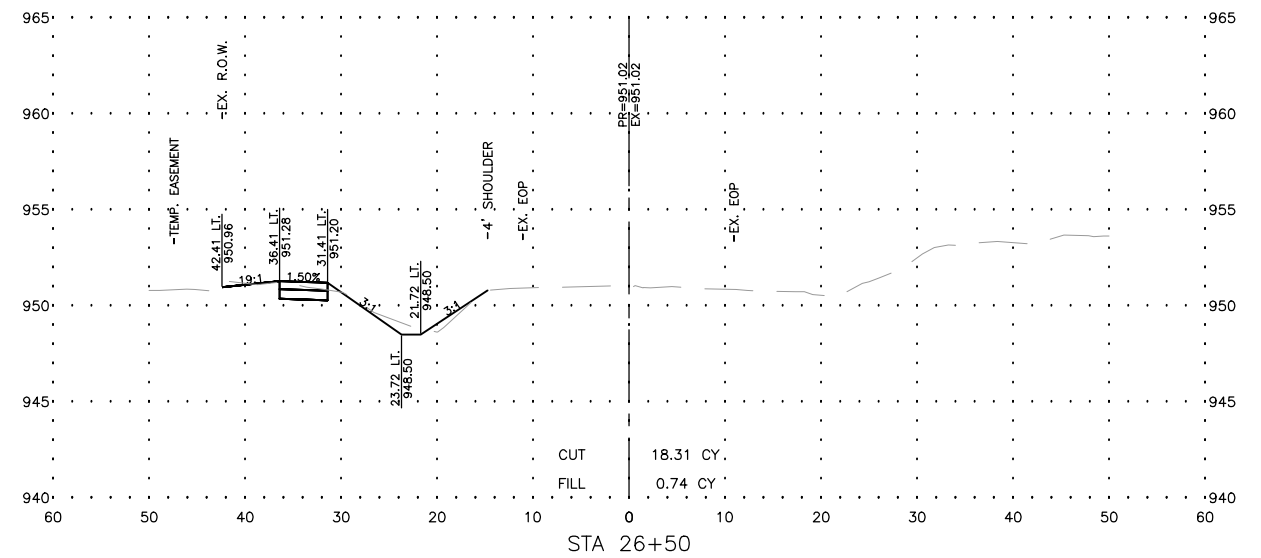
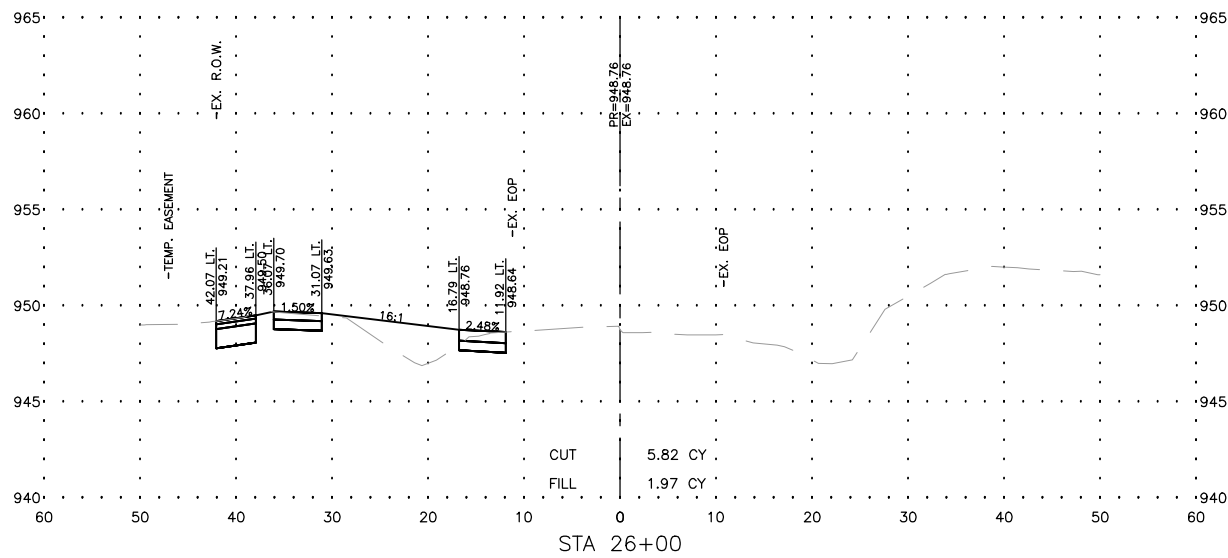
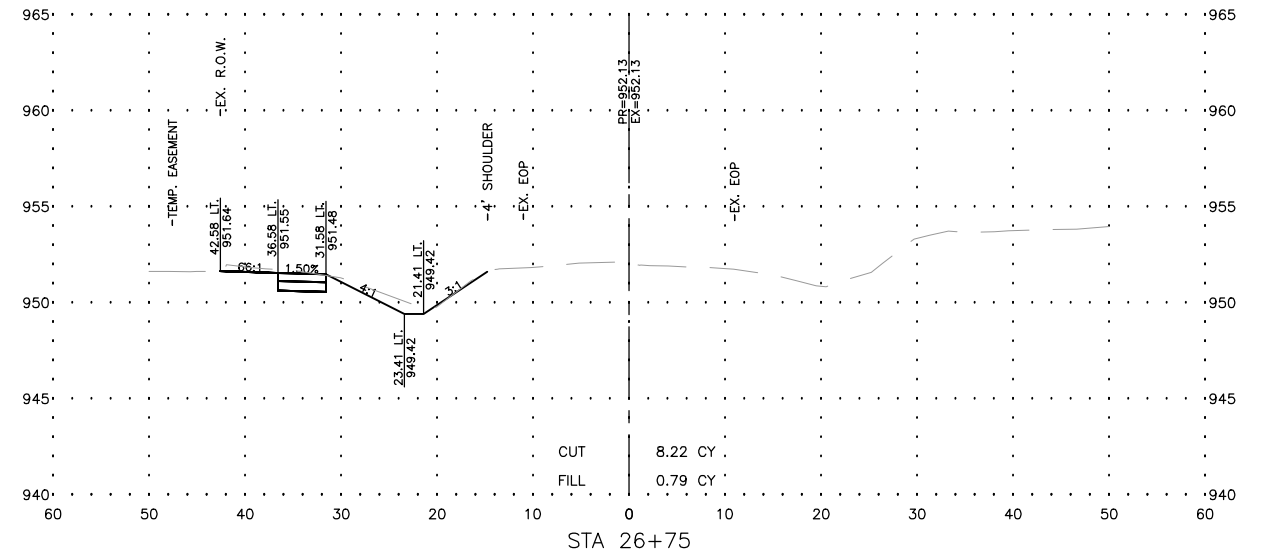
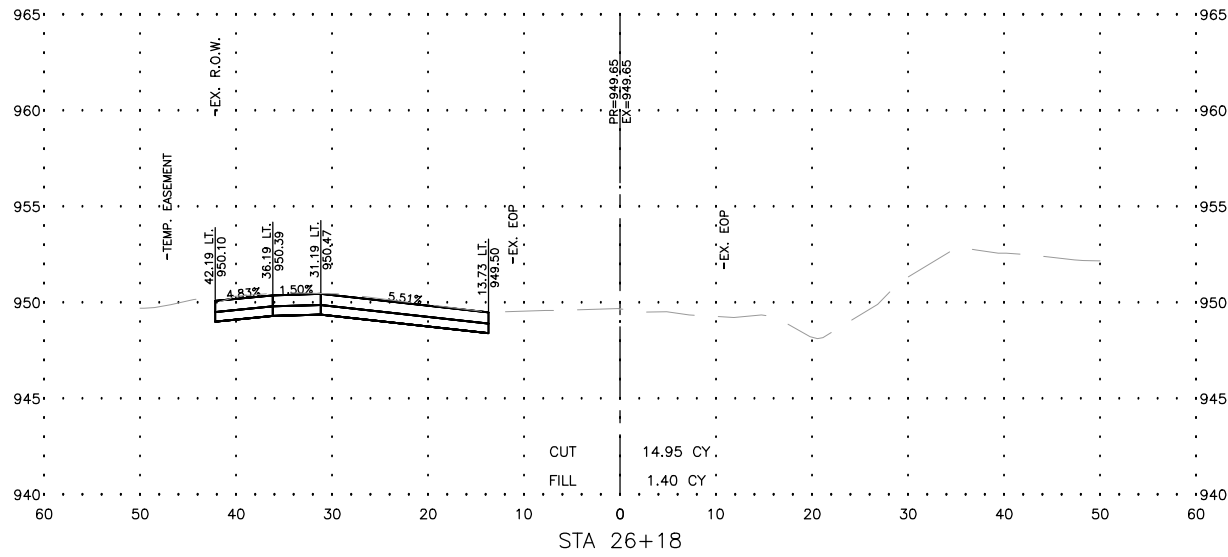
DETAIL E (STA 46+01 RT)  
SCALE: 1" = 5'-0"



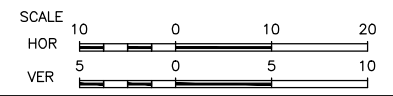
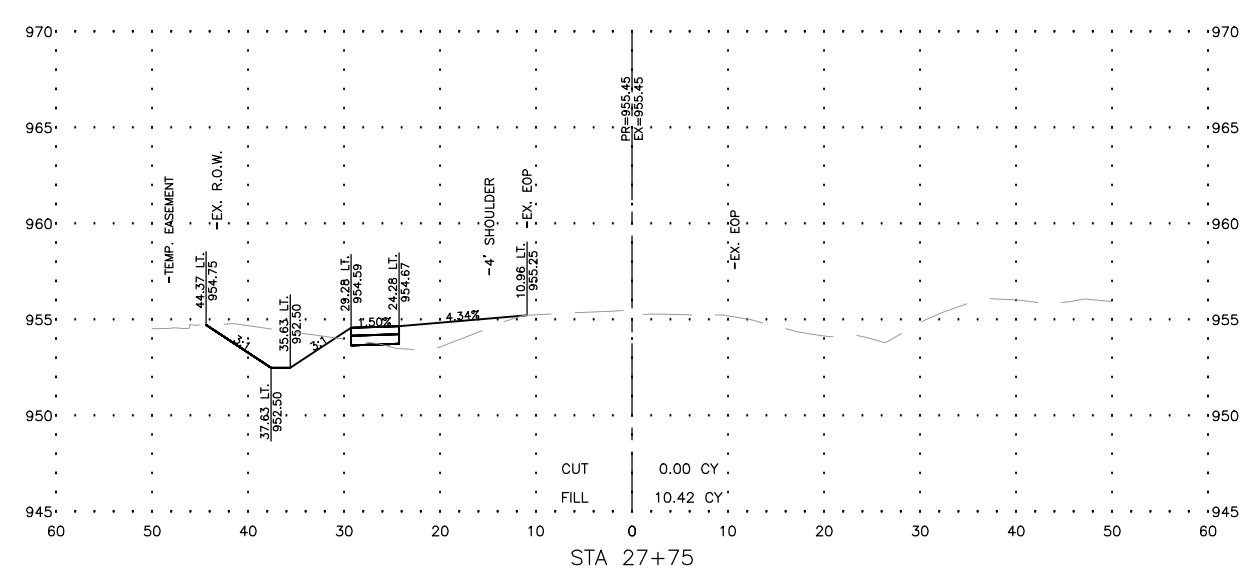
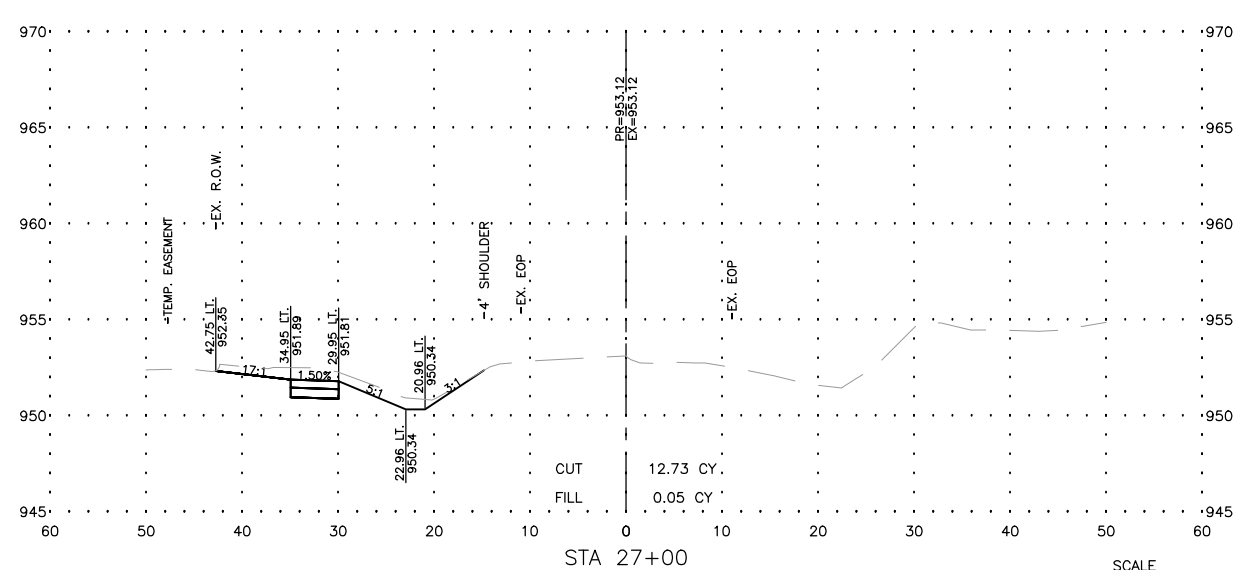
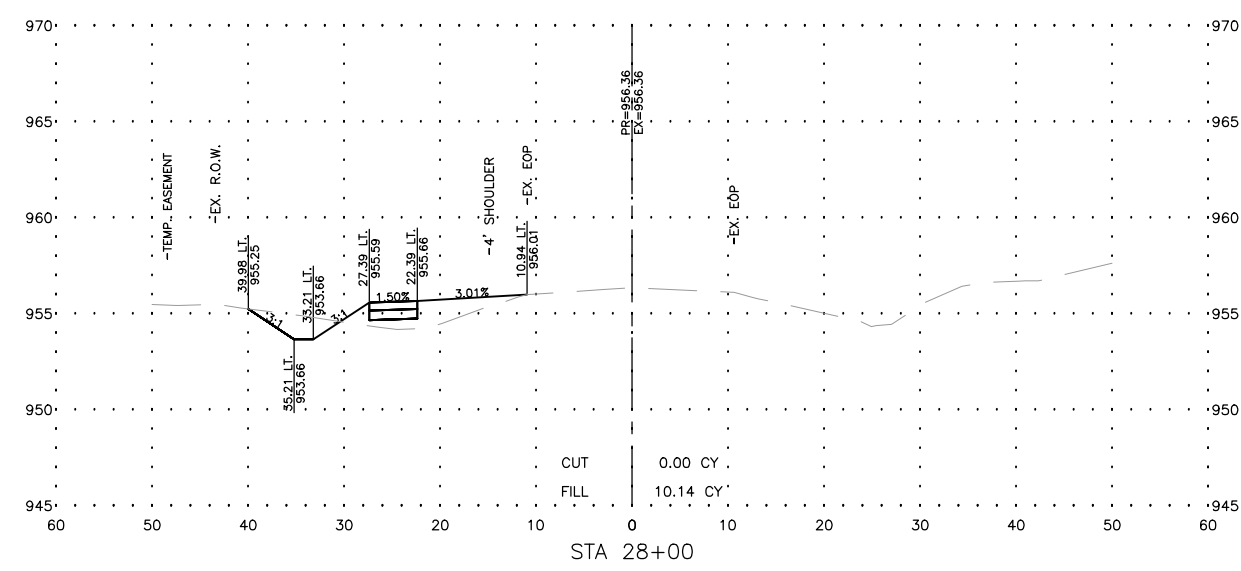
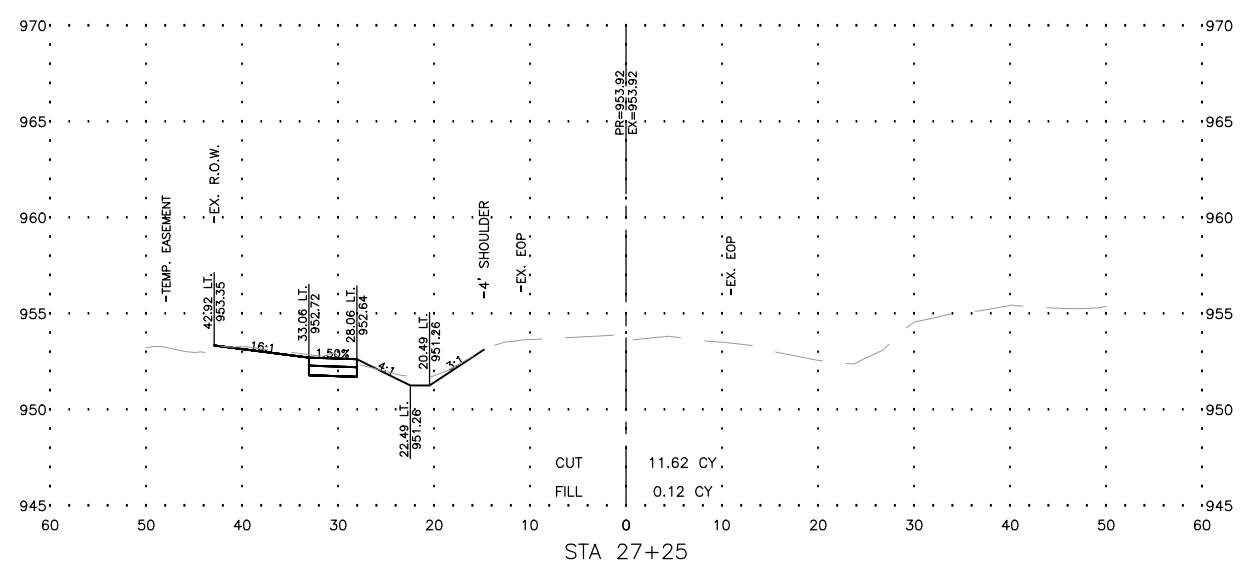
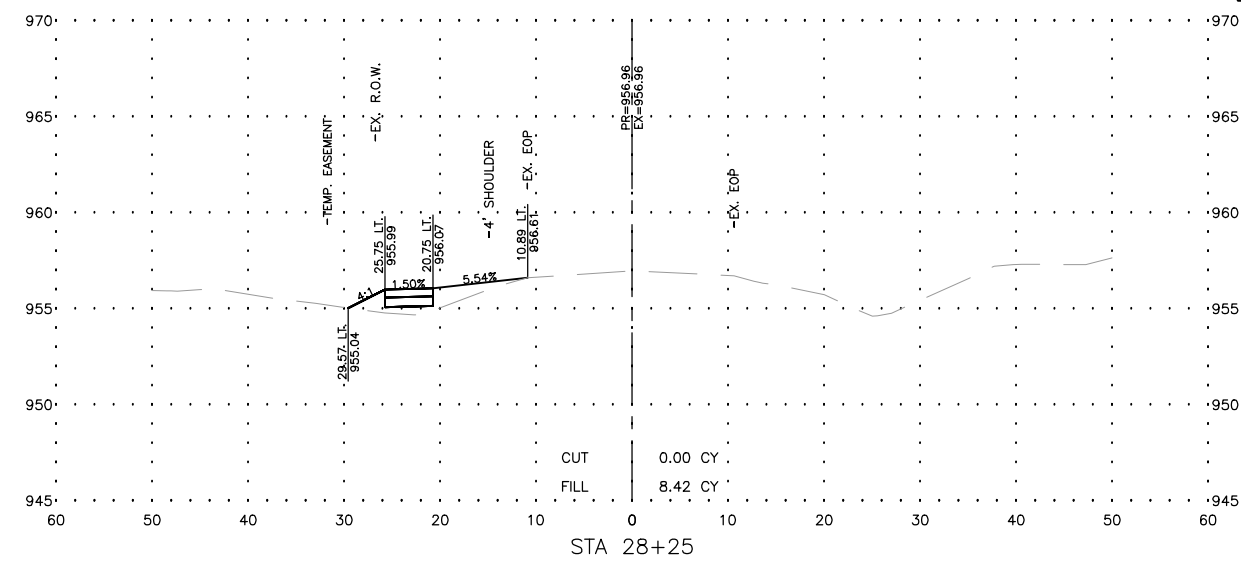
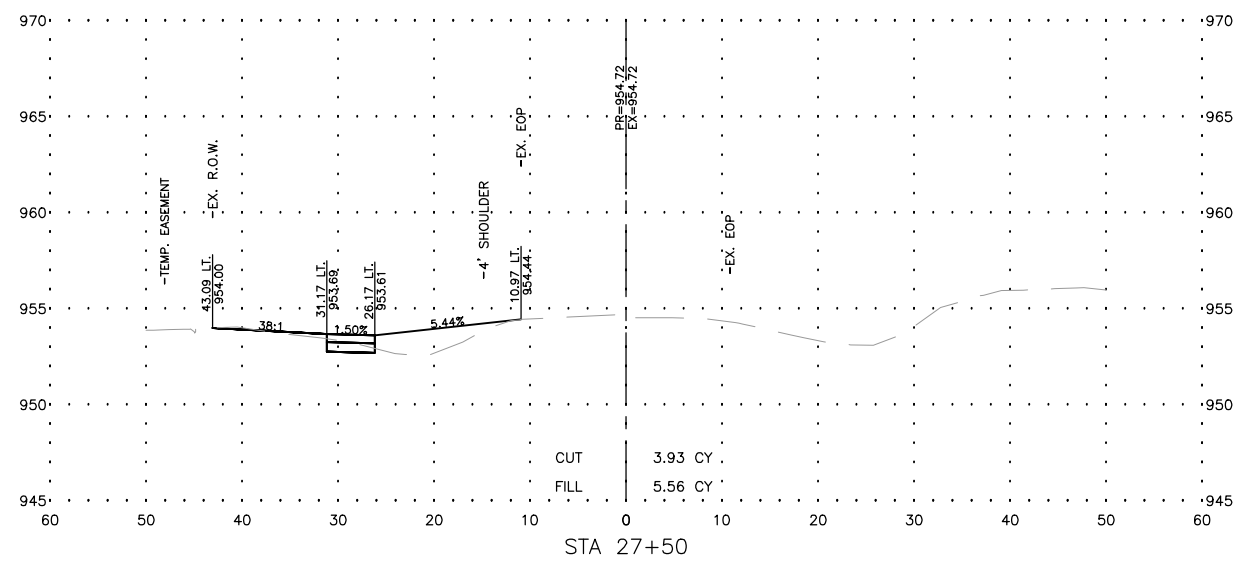
| SIDEWALK COMPLIANCE |                       |                        |             |       |                                 |       |          |   |      |          |       |         |
|---------------------|-----------------------|------------------------|-------------|-------|---------------------------------|-------|----------|---|------|----------|-------|---------|
| POINT TO POINT      | SIDEWALK DESIGNATIONS | DISTANCE               | Δ ELEVATION | SLOPE | ACCEPTABLE RANGE (POS. OR NEG.) |       | COMMENTS | FOR INFORMATION ONLY: VALUES USED TO BE DETERMINE DESIGNED SLOPES |      |          |       |         |
|                     |                       |                        |             |       | FT                              | FT    |          | %   | MIN. | MAX.     | POINT | STATION |
| 3001                | 3002                  | RAMP RUNNING SLOPE     | 7.50        | 0.48  | 6.40%                           | 0.50% | 8.33%    | DETAIL C  | 3001 | 45+41.86 | 20.69 | 951.10  |
| 3002                | 3003                  | LANDING                | 5.00        | 0.07  | 1.40%                           | 0.10% | 2.00%    | DETAIL C  | 3002 | 45+41.86 | 28.19 | 951.58  |
| 3003                | 3004                  | LANDING                | 5.00        | 0.03  | 0.60%                           | 0.10% | 2.00%    | DETAIL C  | 3003 | 45+41.86 | 33.19 | 951.51  |
| 3004                | 3005                  | LANDING                | 5.00        | 0.07  | 1.40%                           | 0.10% | 2.00%    | DETAIL C  | 3004 | 45+41.86 | 20.69 | 951.54  |
| 3005                | 3006                  | RAMP RUNNING SLOPE     | 7.50        | 0.47  | 6.27%                           | 0.50% | 8.33%    | DETAIL C  | 3005 | 45+41.86 | 28.19 | 951.61  |
| 3001                | 3006                  | LANDING                | 5.00        | 0.04  | 0.80%                           | 0.10% | 2.00%    | DETAIL C  | 3006 | 45+41.86 | 33.19 | 951.14  |
| 3002                | 3005                  | LANDING                | 5.00        | 0.03  | 0.60%                           | 0.10% | 2.00%    | DETAIL C  |      |          |       |         |
| 4001                | 4002                  | LANDING                | 2.61        | 0.02  | 0.77%                           | 0.10% | 2.00%    | DETAIL D  | 4001 | 45+41.86 | 22.06 | 950.98  |
| 4002                | 4003                  | RAMP RUNNING SLOPE     | 6.00        | 0.48  | 8.00%                           | 0.50% | 8.33%    | DETAIL D  | 4002 | 45+41.86 | 24.67 | 951.00  |
| 4003                | 4004                  | LANDING                | 5.00        | 0.07  | 1.50%                           | 0.10% | 2.00%    | DETAIL D  | 4003 | 45+35.86 | 24.67 | 951.48  |
| 4004                | 4005                  | SIDEWALK RUNNING SLOPE | 6.33        | 0.13  | 1.97%                           | 0.50% | 5.00%    | DETAIL D  | 4004 | 45+30.86 | 24.67 | 951.56  |
| 4005                | 4006                  | SIDEWALK CROSS SLOPE   | 3.77        | 0.01  | 0.27%                           | 0.50% | 2.00%    | DETAIL D (MATCH EXISTING)   | 4005 | 45+25.86 | 25.73 | 951.68  |
| 4006                | 4007                  | SIDEWALK RUNNING SLOPE | 6.25        | 0.09  | 1.44%                           | 0.50% | 5.00%    | DETAIL D  | 4006 | 45+25.86 | 29.67 | 951.69  |
| 4007                | 4008                  | LANDING                | 5.00        | 0.08  | 1.60%                           | 0.10% | 2.00%    | DETAIL D  | 4007 | 45+30.86 | 29.67 | 951.60  |
| 4008                | 4009                  | RAMP RUNNING SLOPE     | 6.00        | 0.48  | 8.00%                           | 0.50% | 8.33%    | DETAIL D  | 4008 | 45+35.86 | 29.67 | 951.52  |
| 4009                | 4010                  | RAMP RUNNING SLOPE     | 6.00        | 0.48  | 8.00%                           | 0.50% | 8.33%    | DETAIL D  | 4009 | 45+41.86 | 29.67 | 951.04  |
| 4010                | 4011                  | LANDING                | 5.00        | 0.04  | 0.90%                           | 0.10% | 2.00%    | DETAIL D  | 4010 | 45+41.86 | 35.67 | 951.52  |
| 4011                | 4012                  | SIDEWALK RUNNING SLOPE | 5.00        | 0.04  | 0.90%                           | 0.50% | 5.00%    | DETAIL D  | 4011 | 45+41.86 | 40.67 | 951.48  |
| 4012                | 4013                  | SIDEWALK CROSS SLOPE   | 3.48        | 0.17  | 4.89%                           | 0.50% | 2.00%    | DETAIL D (MATCH EXISTING)   | 4012 | 45+41.86 | 45.67 | 951.52  |
| 4013                | 4014                  | SIDEWALK RUNNING SLOPE | 5.00        | 0.05  | 1.00%                           | 0.50% | 5.00%    | DETAIL D  | 4013 | 45+45.34 | 45.67 | 951.35  |
| 4014                | 4015                  | LANDING                | 5.00        | 0.04  | 0.80%                           | 0.10% | 2.00%    | DETAIL D  | 4014 | 45+46.86 | 40.67 | 951.40  |
| 4015                | 4016                  | RAMP RUNNING SLOPE     | 6.00        | 0.48  | 8.00%                           | 0.50% | 8.33%    | DETAIL D  | 4015 | 45+46.86 | 35.67 | 951.44  |
| 4016                | 4017                  | LANDING                | 5.14        | 0.08  | 1.56%                           | 0.10% | 2.00%    | DETAIL D  | 4016 | 45+46.86 | 29.67 | 950.96  |
| 4001                | 4017                  | LANDING                | 13.09       | 0.10  | 0.76%                           | 0.10% | 2.00%    | DETAIL D  | 4017 | 45+52.00 | 29.67 | 950.88  |
| 4002                | 4009                  | LANDING                | 5.00        | 0.04  | 0.80%                           | 0.10% | 2.00%    | DETAIL D  |      |          |       |         |
| 4003                | 4008                  | LANDING                | 5.00        | 0.04  | 0.80%                           | 0.10% | 2.00%    | DETAIL D  |      |          |       |         |
| 4004                | 4007                  | LANDING                | 5.00        | 0.05  | 0.90%                           | 0.10% | 2.00%    | DETAIL D  |      |          |       |         |
| 4009                | 4016                  | LANDING                | 5.00        | 0.08  | 1.60%                           | 0.10% | 2.00%    | DETAIL D  |      |          |       |         |
| 4010                | 4015                  | LANDING                | 5.00        | 0.08  | 1.60%                           | 0.10% | 2.00%    | DETAIL D  |      |          |       |         |
| 4011                | 4014                  | LANDING                | 5.00        | 0.08  | 1.50%                           | 0.10% | 2.00%    | DETAIL D  |      |          |       |         |

| SIDEWALK COMPLIANCE |                       |                        |             |       |                                 |       |          |   |      |          |       |         |        |
|---------------------|-----------------------|------------------------|-------------|-------|---------------------------------|-------|----------|---|------|----------|-------|---------|--------|
| POINT TO POINT      | SIDEWALK DESIGNATIONS | DISTANCE               | Δ ELEVATION | SLOPE | ACCEPTABLE RANGE (POS. OR NEG.) |       | COMMENTS | FOR INFORMATION ONLY: VALUES USED TO BE DETERMINE DESIGNED SLOPES |      |          |       |         |        |
|                     |                       |                        |             |       | FT                              | FT    |          | %   | MIN. | MAX.     | POINT | STATION | OFFSET |
| 5001                | 5002                  | LANDING                | 6.34        | 0.09  | 1.42%                           | 0.10% | 2.00%    | DETAIL E  | 5001 | 45+98.36 | 29.87 | 950.48  |        |
| 5002                | 5003                  | RAMP RUNNING SLOPE     | 6.00        | 0.48  | 8.00%                           | 0.50% | 8.33%    | DETAIL E  | 5002 | 46+04.70 | 29.87 | 950.57  |        |
| 5003                | 5004                  | LANDING                | 5.00        | 0.08  | 1.50%                           | 0.10% | 2.00%    | DETAIL E  | 5003 | 46+10.70 | 29.87 | 951.05  |        |
| 5004                | 5005                  | SIDEWALK RUNNING SLOPE | 9.22        | 0.26  | 2.87%                           | 0.50% | 5.00%    | DETAIL E  | 5004 | 46+15.70 | 29.87 | 951.13  |        |
| 5005                | 5006                  | SIDEWALK CROSS SLOPE   | 3.78        | 0.18  | 4.76%                           | 0.50% | 2.00%    | DETAIL E (MATCH EXISTING)   | 5005 | 46+24.92 | 29.87 | 950.86  |        |
| 5006                | 5007                  | SIDEWALK RUNNING SLOPE | 9.22        | 0.38  | 4.07%                           | 0.50% | 5.00%    | DETAIL E  | 5006 | 46+24.92 | 25.92 | 950.68  |        |
| 5007                | 5008                  | LANDING                | 5.00        | 0.08  | 1.60%                           | 0.10% | 2.00%    | DETAIL E  | 5007 | 46+15.70 | 24.87 | 951.06  |        |
| 5008                | 5009                  | RAMP RUNNING SLOPE     | 6.00        | 0.34  | 5.67%                           | 0.50% | 8.33%    | DETAIL E  | 5008 | 46+10.70 | 24.87 | 950.98  |        |
| 5009                | 5010                  | LANDING                | 1.00        | 0.01  | 1.50%                           | 0.10% | 2.00%    | DETAIL E  | 5009 | 46+04.70 | 24.87 | 950.64  |        |
| 5001                | 5010                  | LANDING                | 7.35        | 0.14  | 1.90%                           | 0.10% | 2.00%    | DETAIL E  | 5010 | 46+03.70 | 24.87 | 950.62  |        |
| 5002                | 5009                  | RAMP CROSS SLOPE       | 5.00        | 0.06  | 1.30%                           | 0.10% | 2.00%    | DETAIL E  |      |          |       |         |        |
| 5003                | 5008                  | LANDING                | 5.00        | 0.07  | 1.50%                           | 0.10% | 2.00%    | DETAIL E  |      |          |       |         |        |
| 5004                | 5007                  | LANDING                | 5.00        | 0.07  | 1.40%                           | 0.10% | 2.00%    | DETAIL E  |      |          |       |         |        |

| REVISIONS |             |      |
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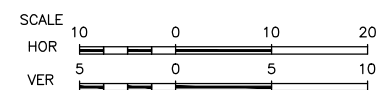
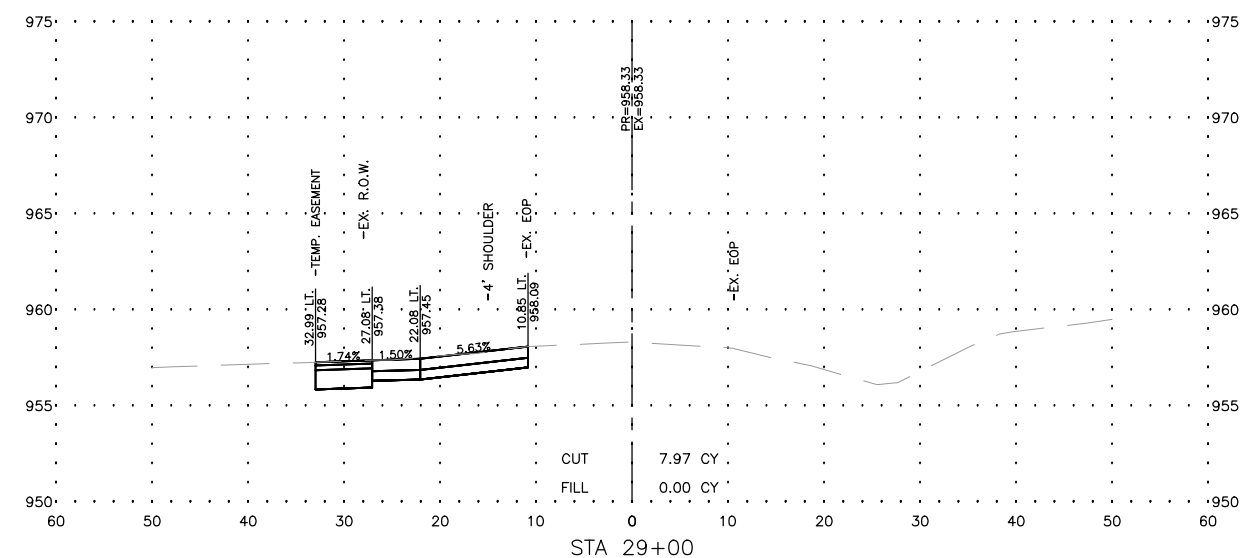
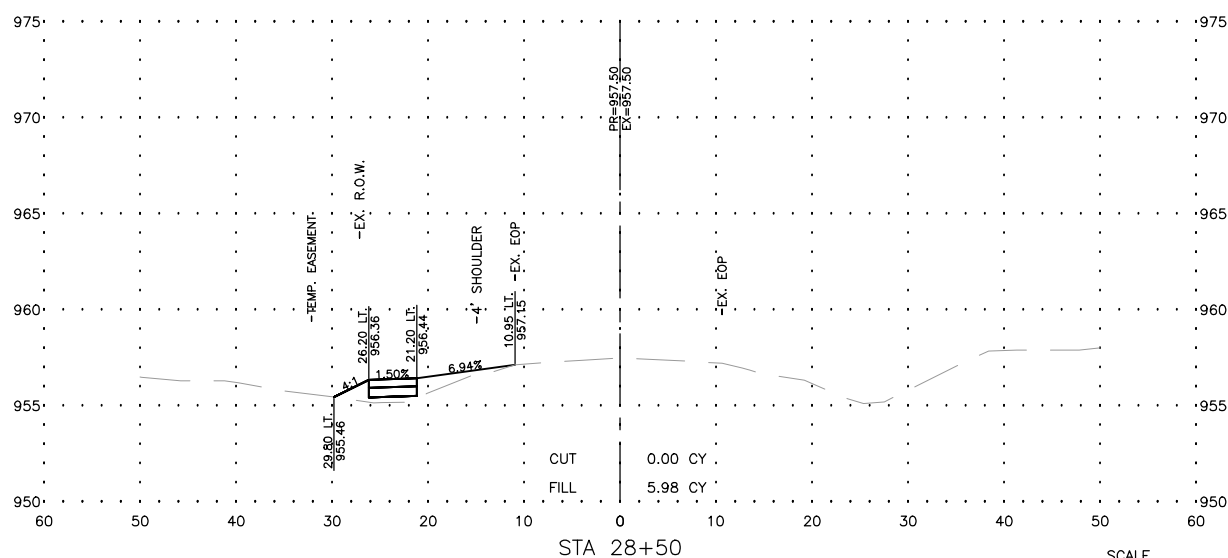
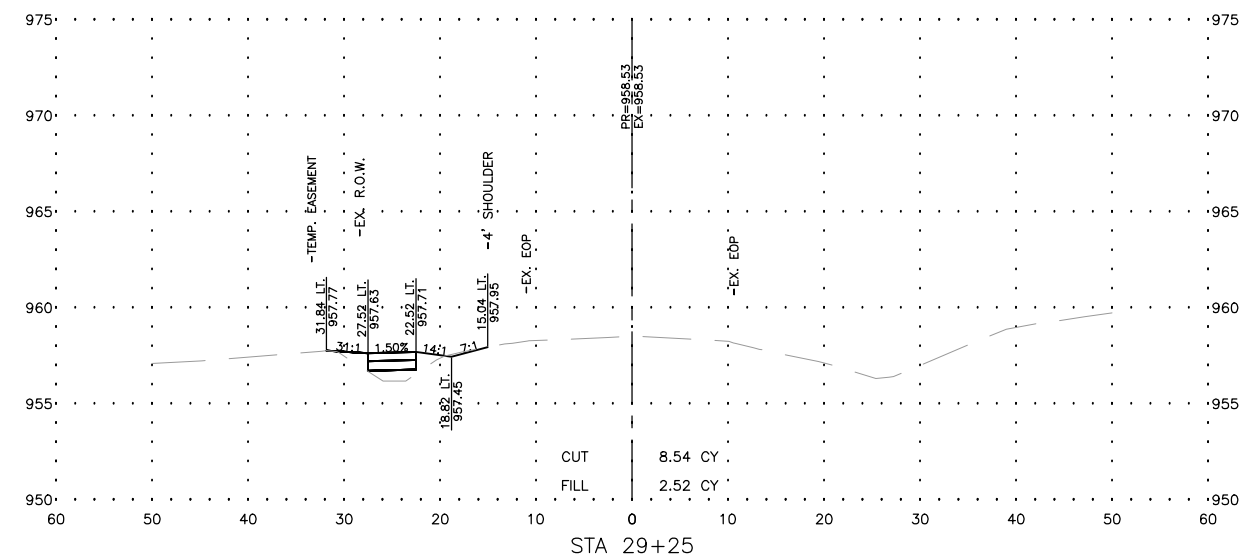
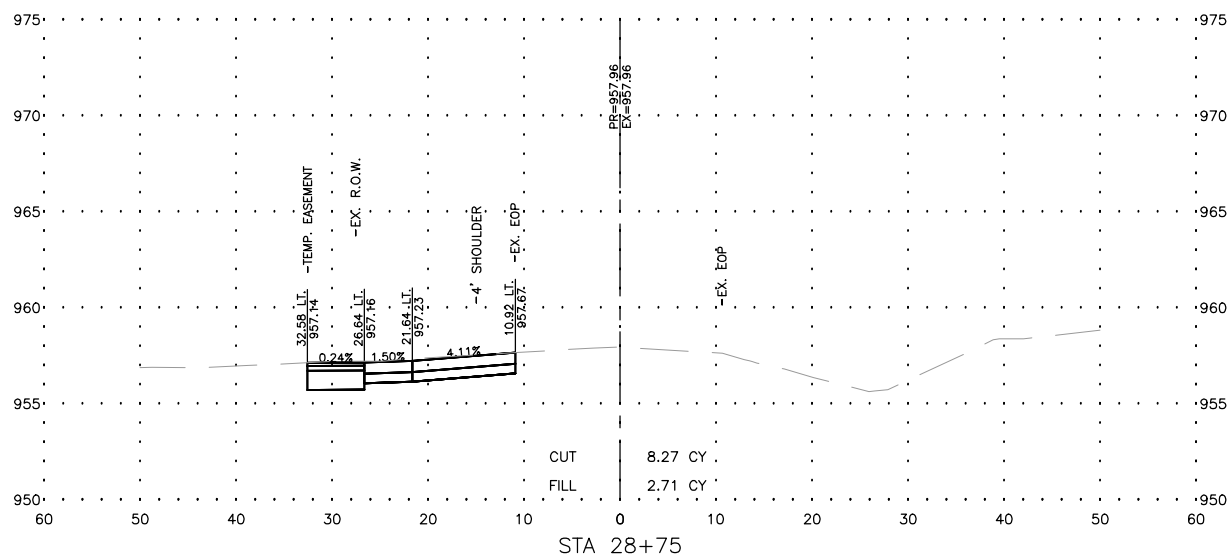
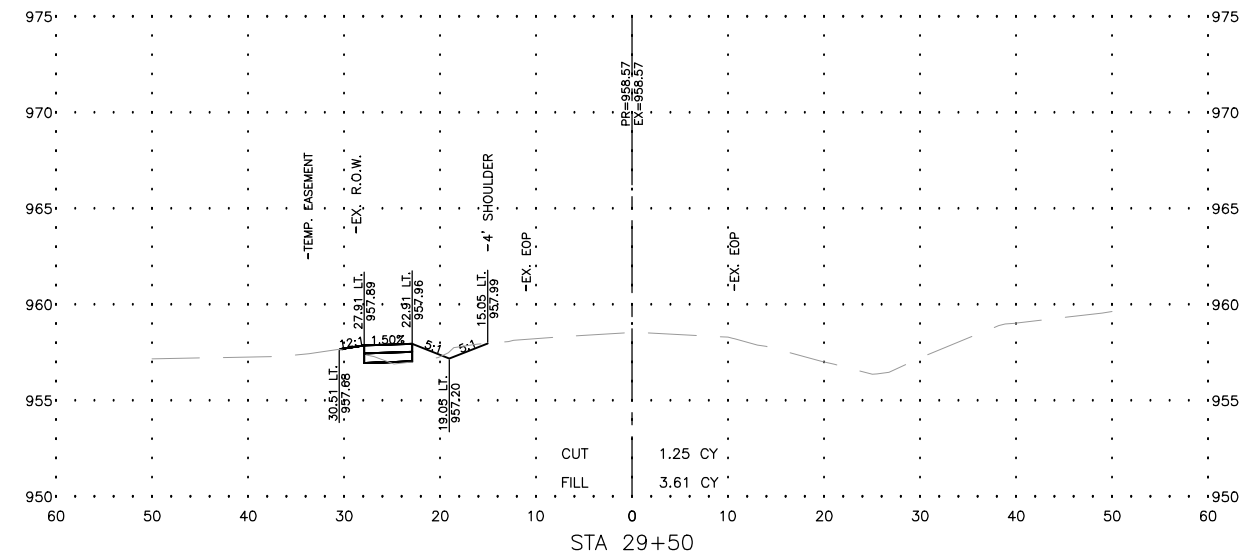
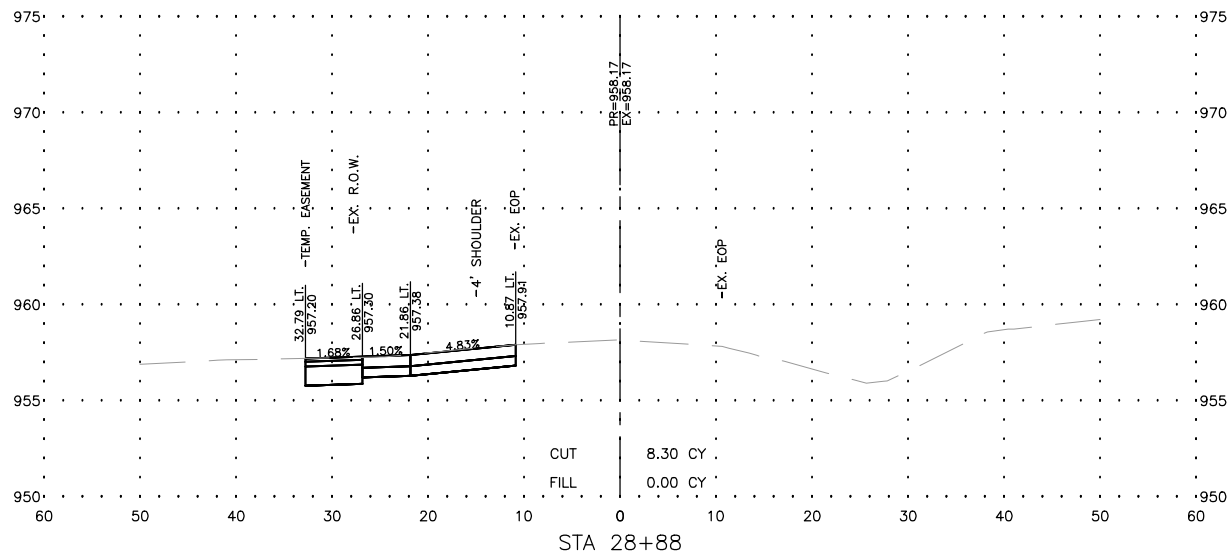


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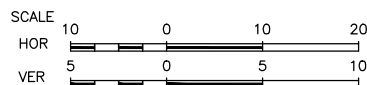
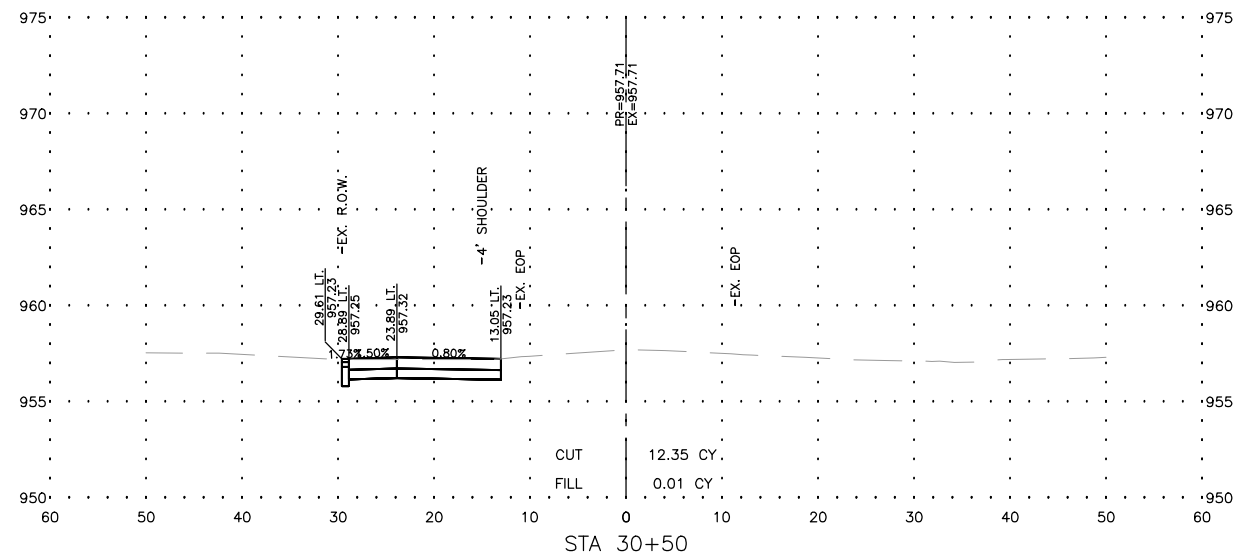
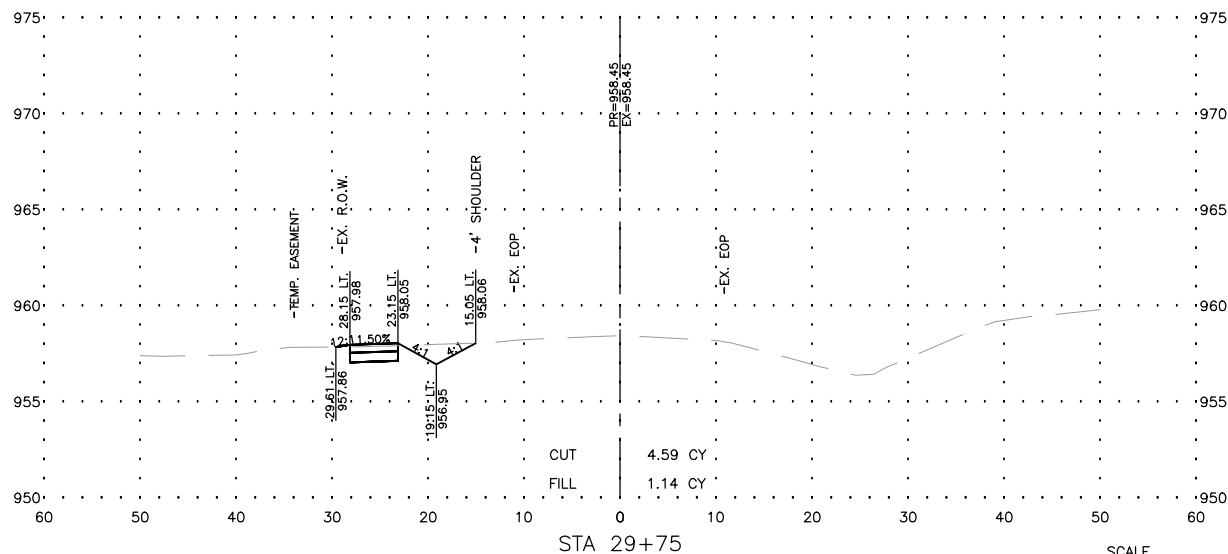
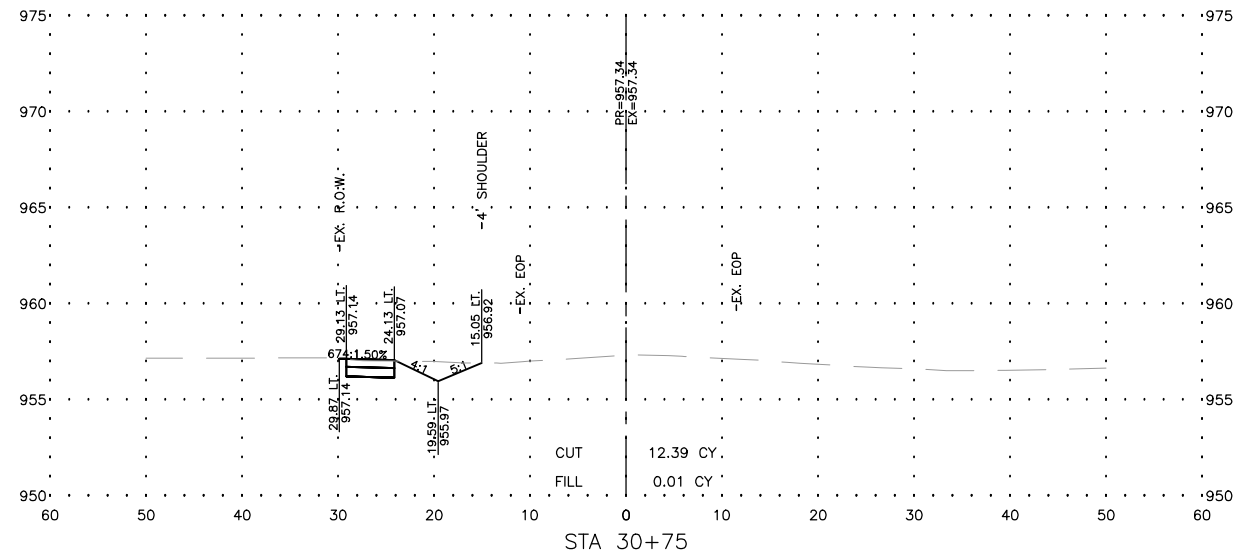
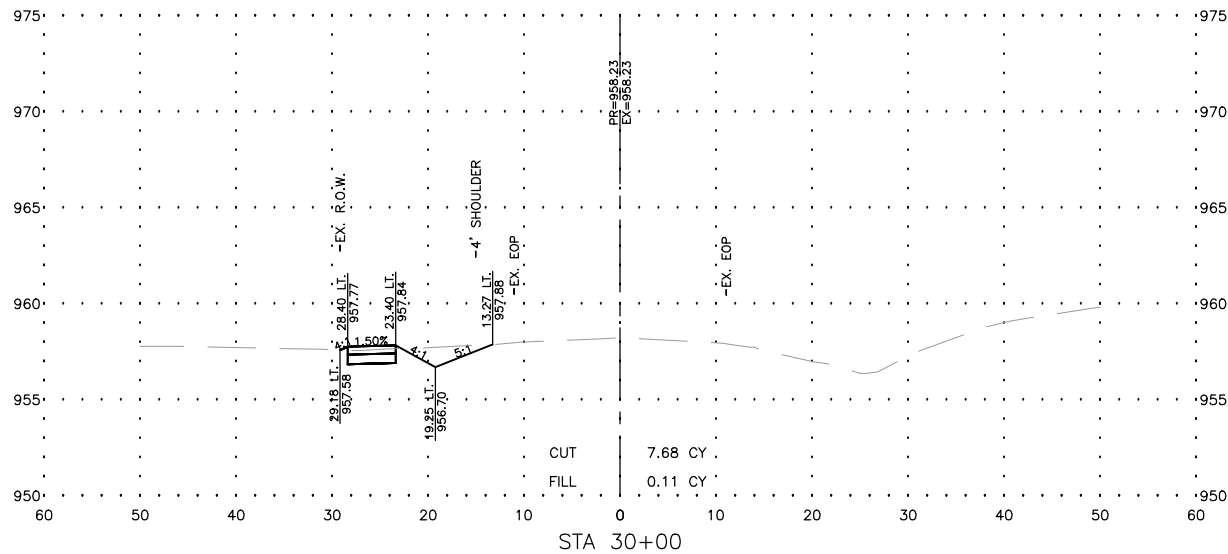
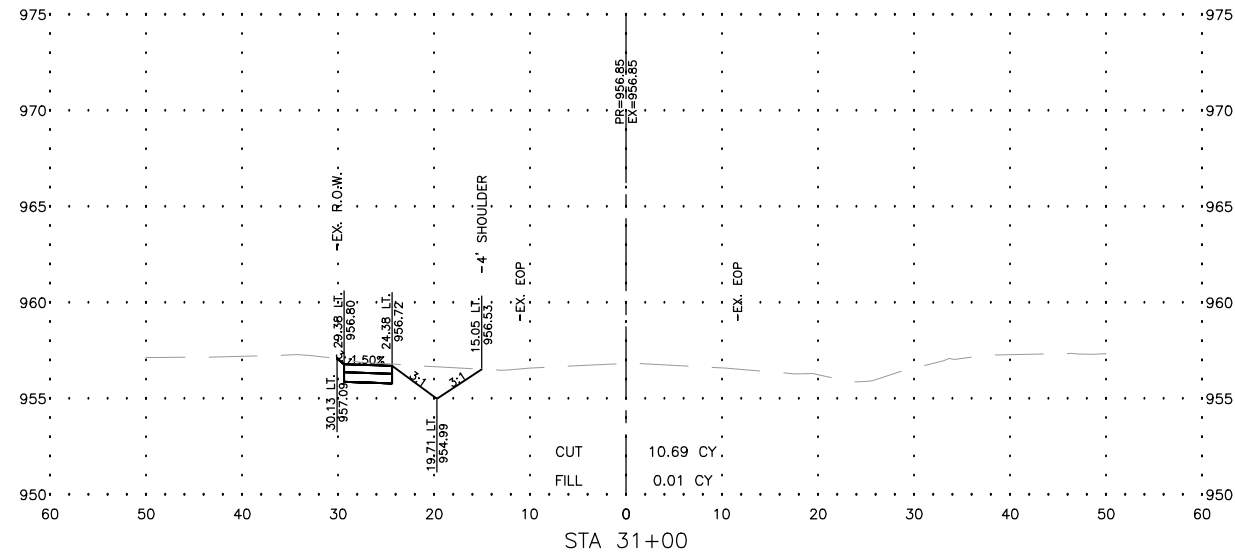
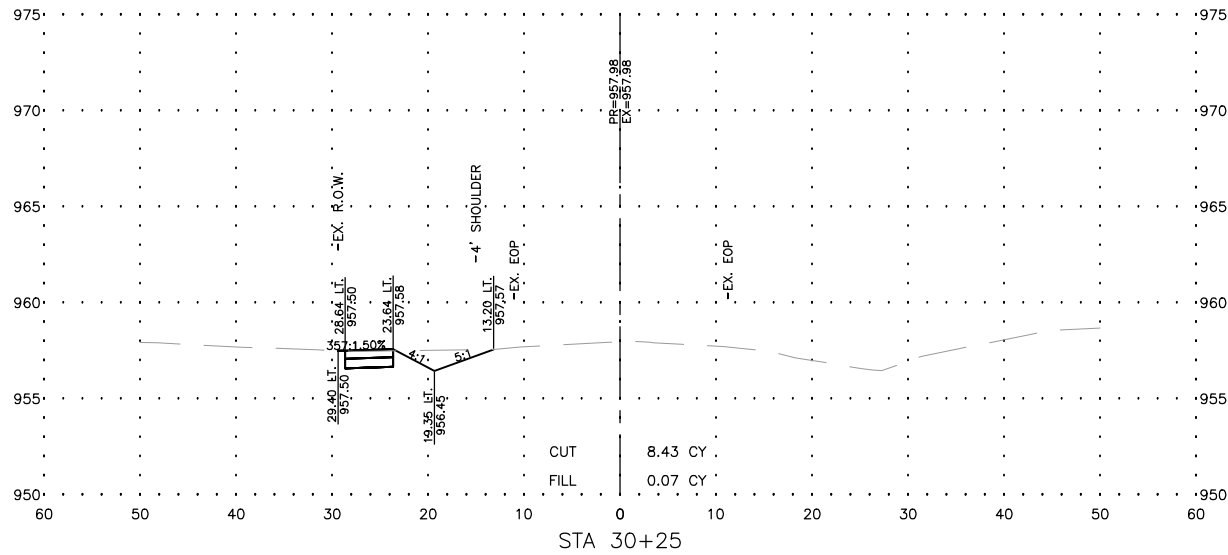


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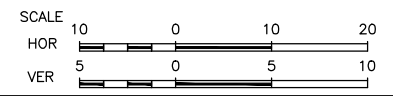
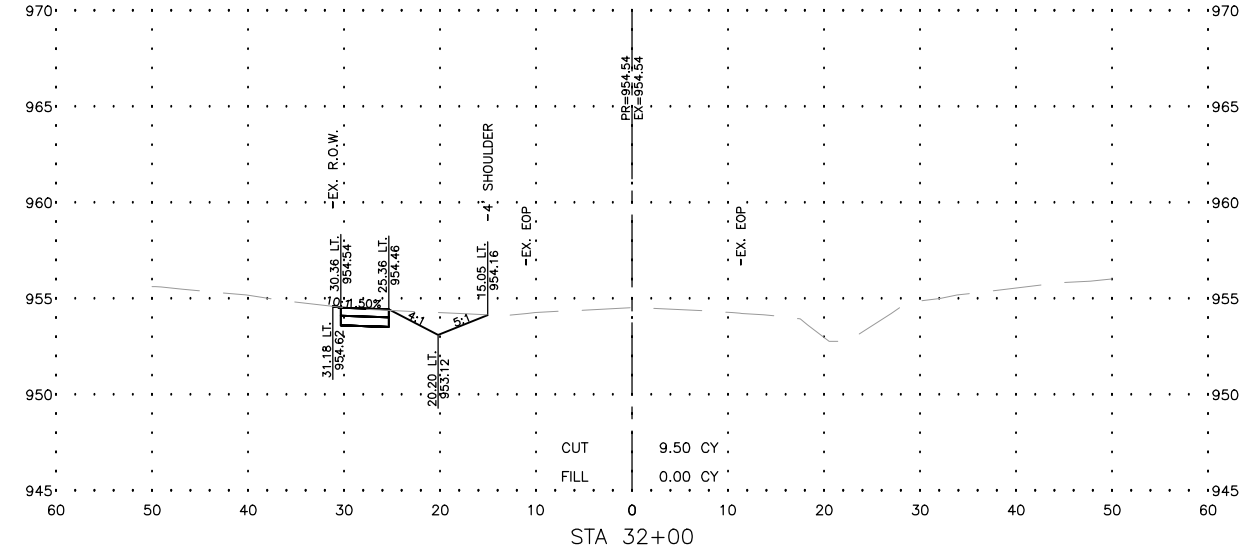
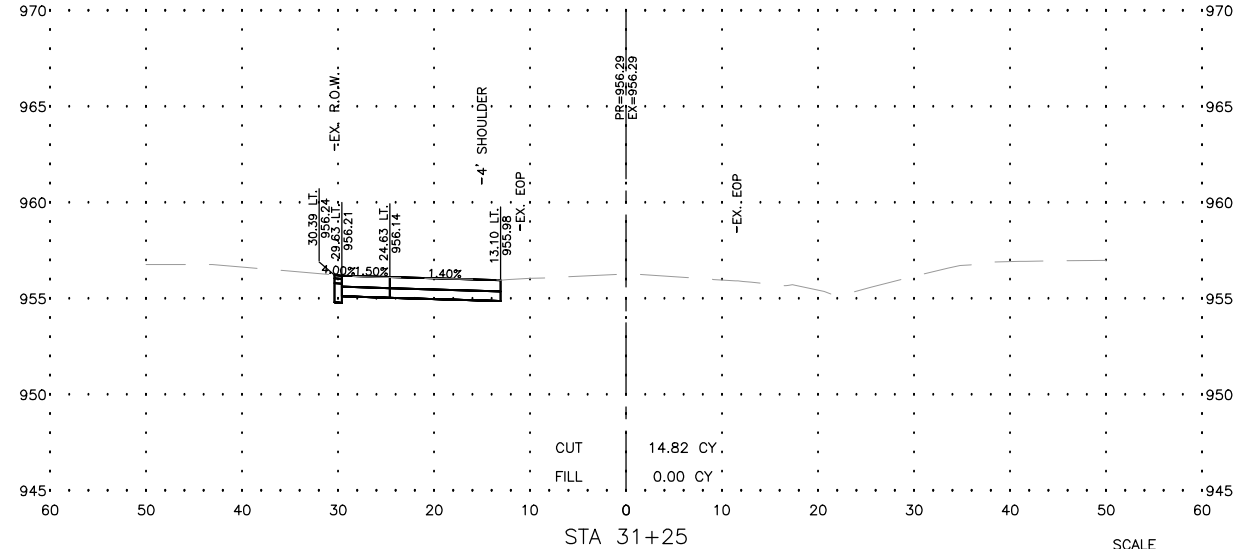
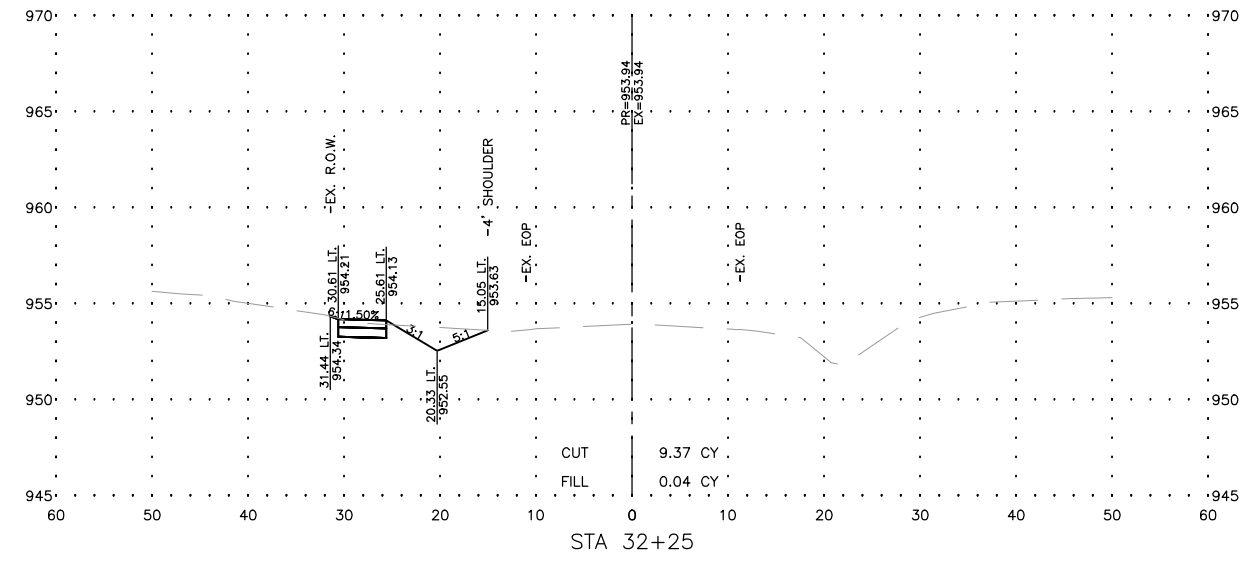
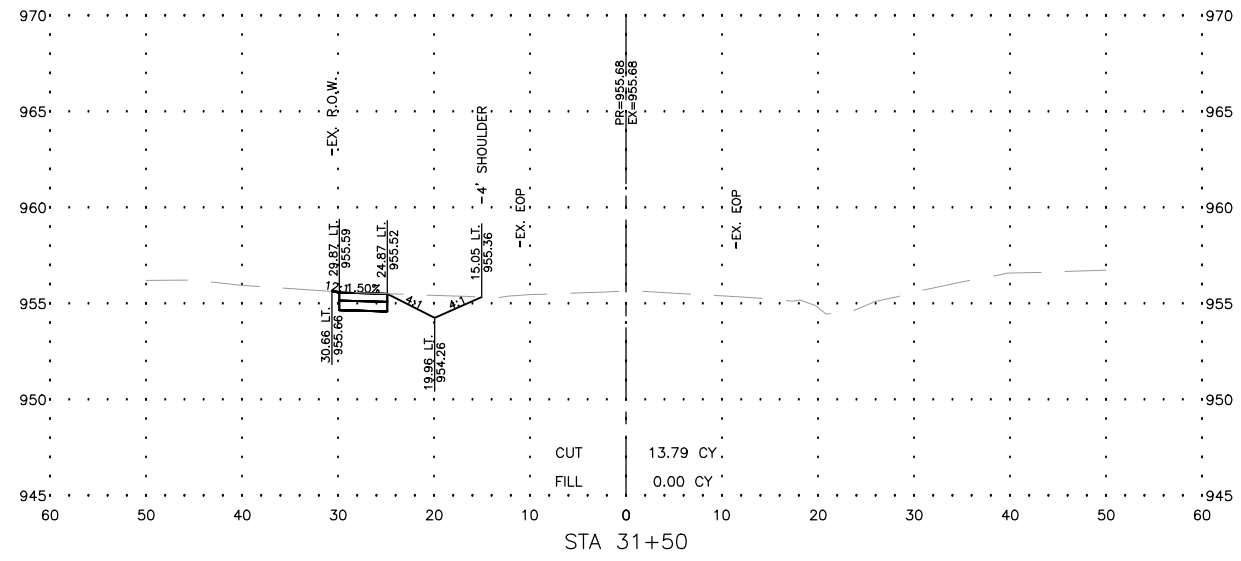
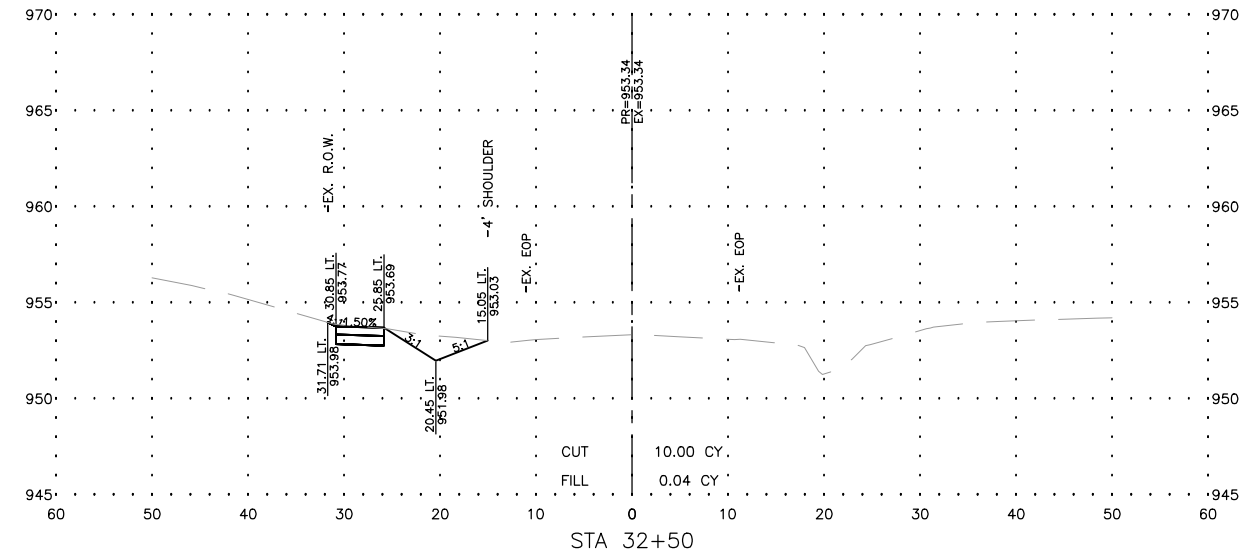
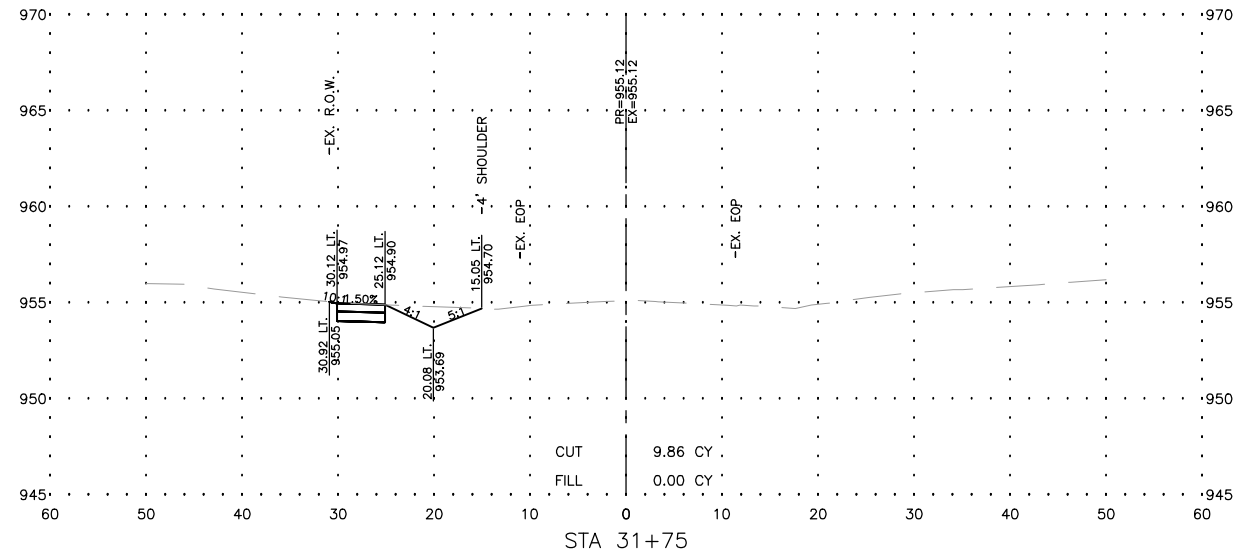




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**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
VILLAGE OF LENA  
122 EAST MAIN STREET  
LENA, IL 61048

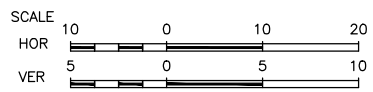
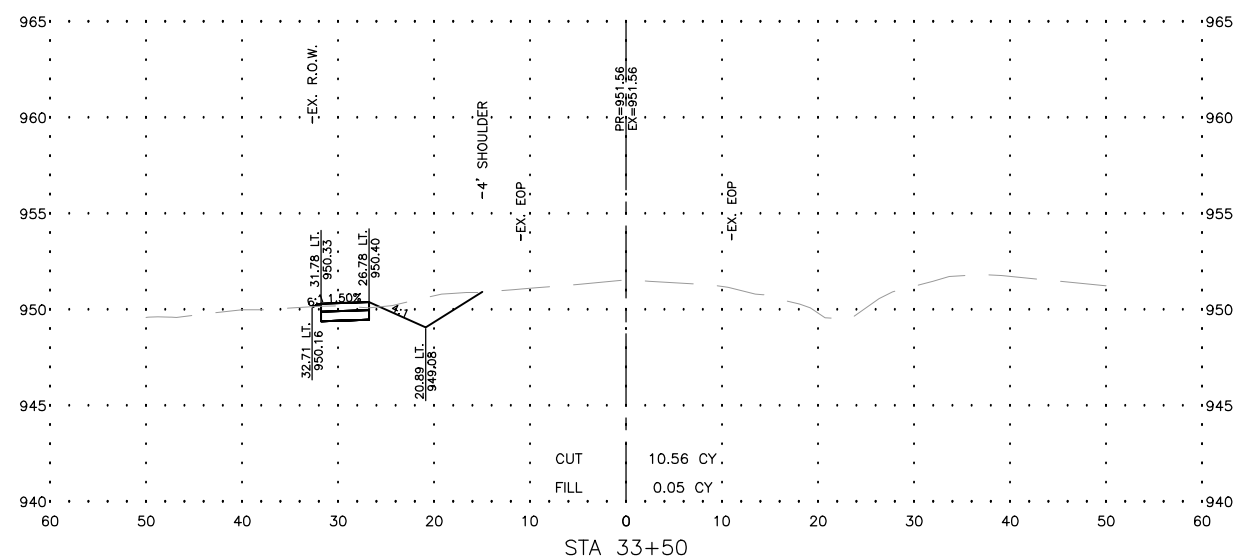
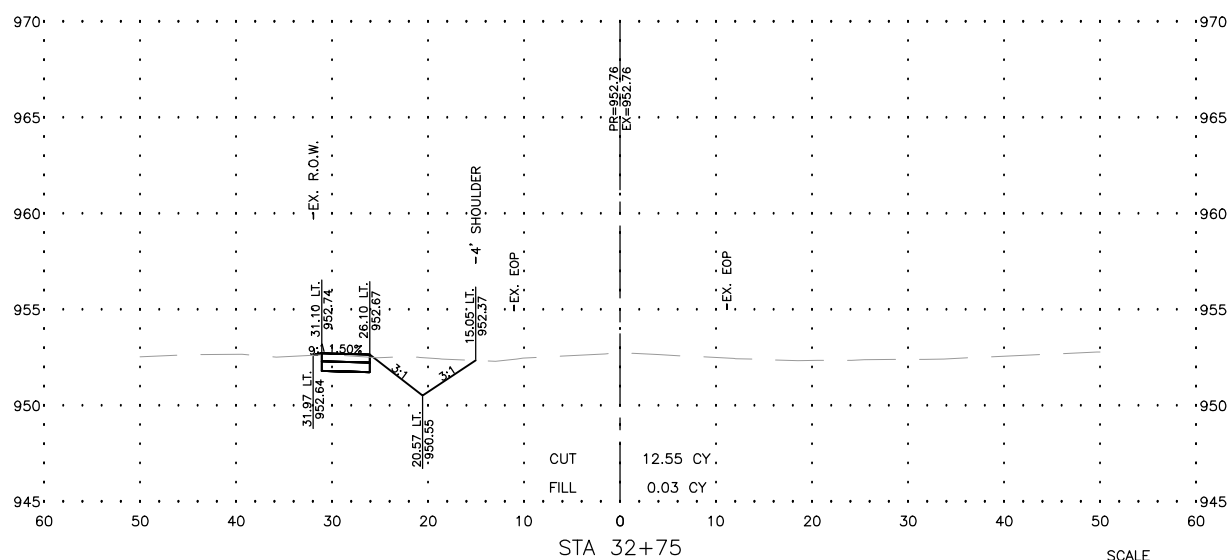
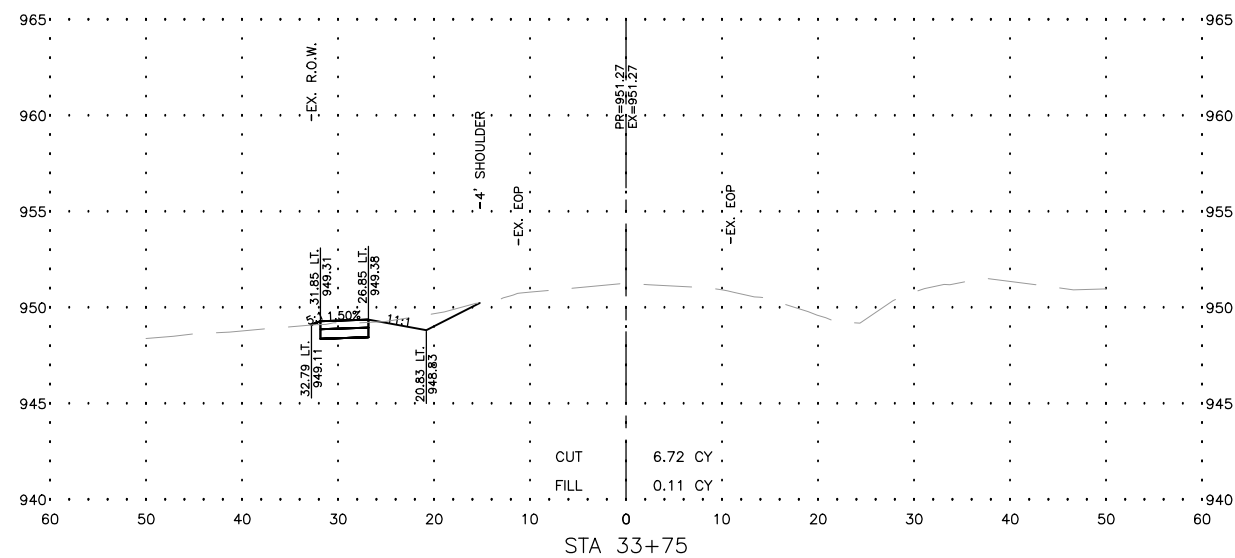
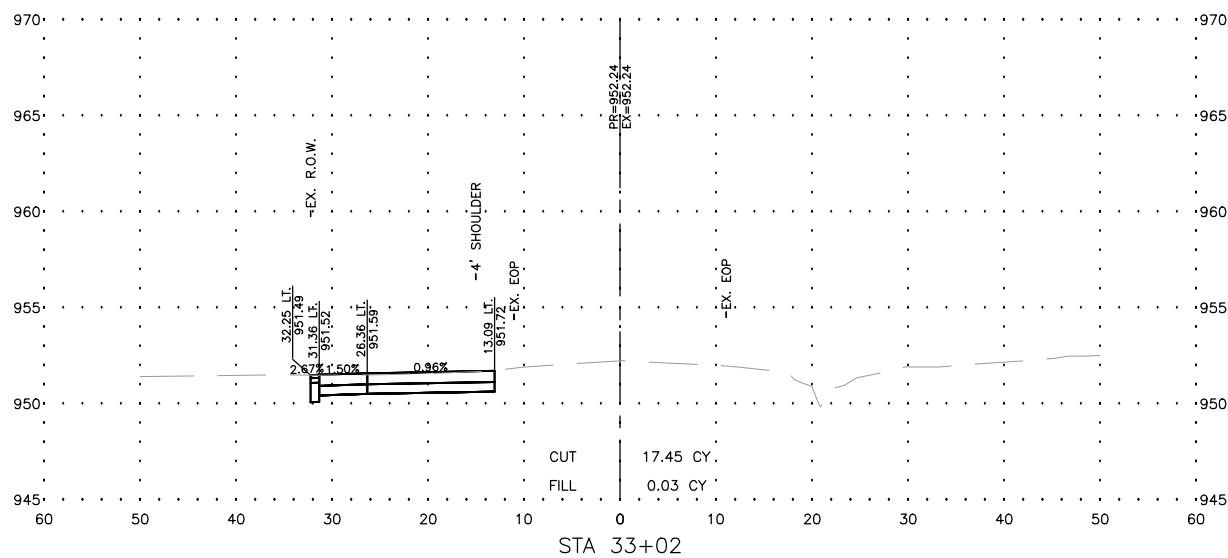
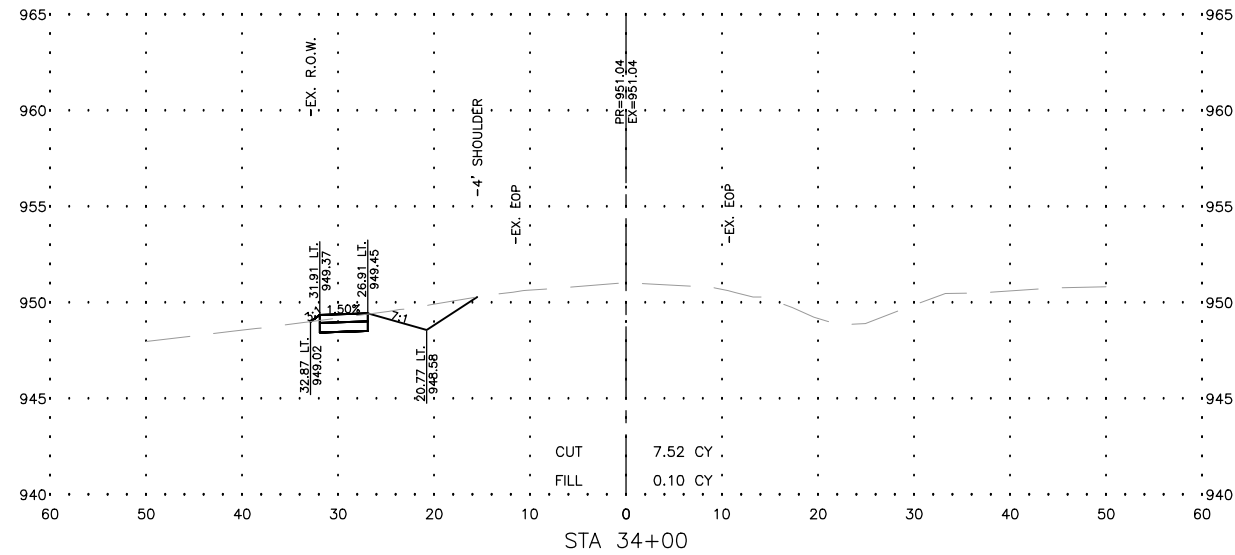
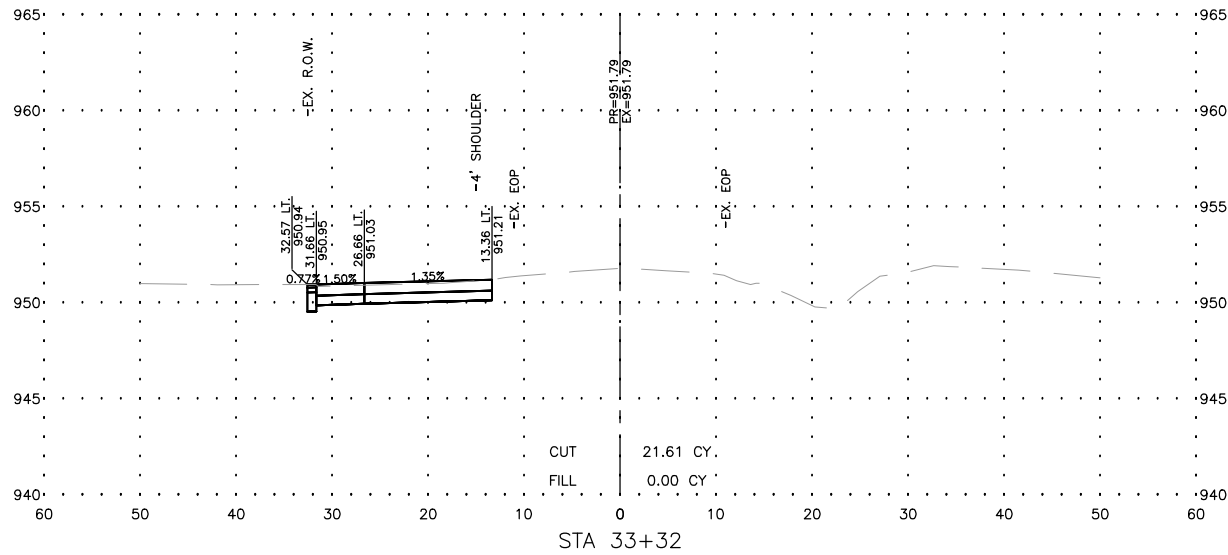
PROJECT AND LOCATION:  
SIDEWALK IMPROVEMENTS  
LENA, IL

DRAWN BY: M.S.  
APPROVED BY: P.E.  
DATE: 3/13/18  
SCALE: AS NOTED

| REVISIONS |             |      |
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| REV. NO.  | DESCRIPTION | DATE |
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DRAWING:  
CROSS SECTIONS STA. 31+25 TO 32+50  
SET TYPE:  
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JOB NUMBER:  
14-785  
SHEET NUMBER:  
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**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
VILLAGE OF LENA  
122 EAST MAIN STREET  
LENA, IL 61048

PROJECT AND LOCATION:  
SIDEWALK IMPROVEMENTS  
LENA, IL

DRAWN BY: M.S.  
APPROVED BY: P.E.  
DATE: 3/13/18  
SCALE: AS NOTED

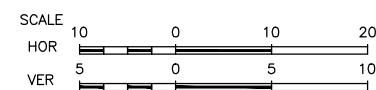
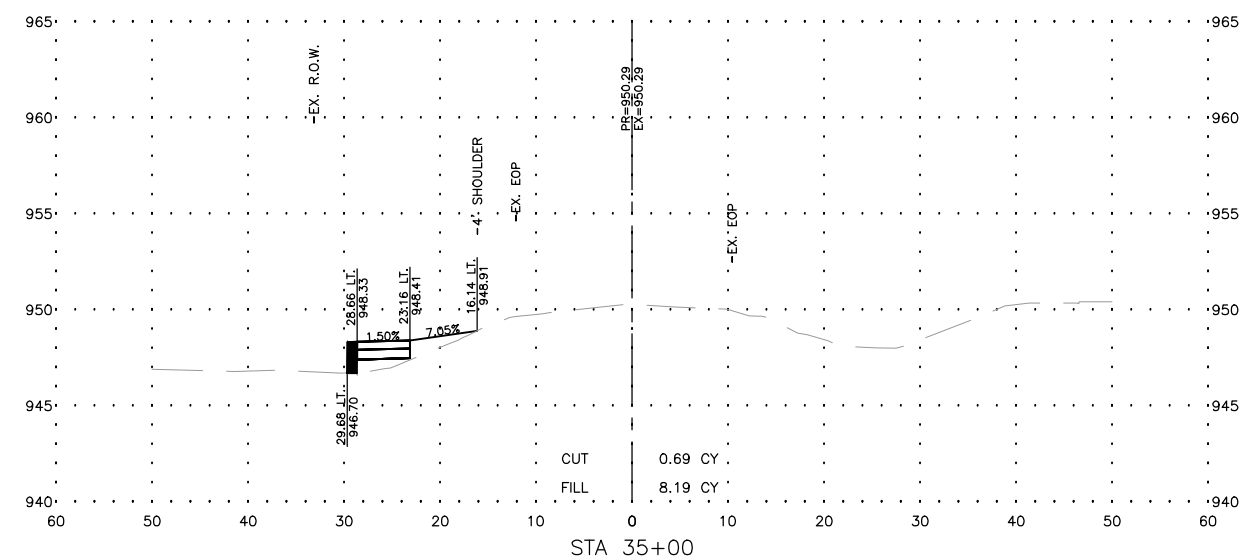
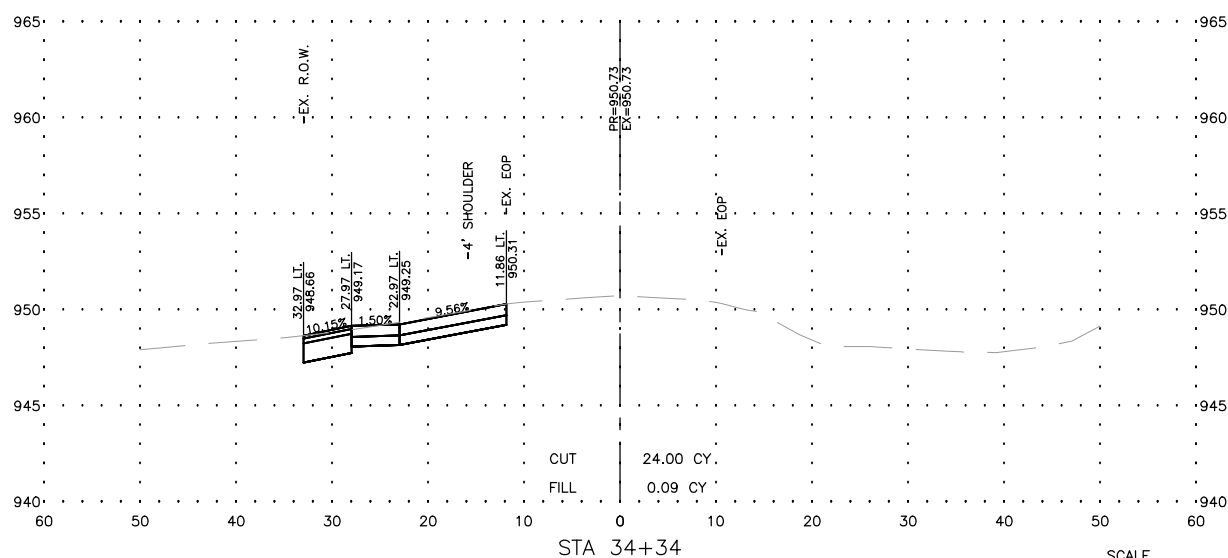
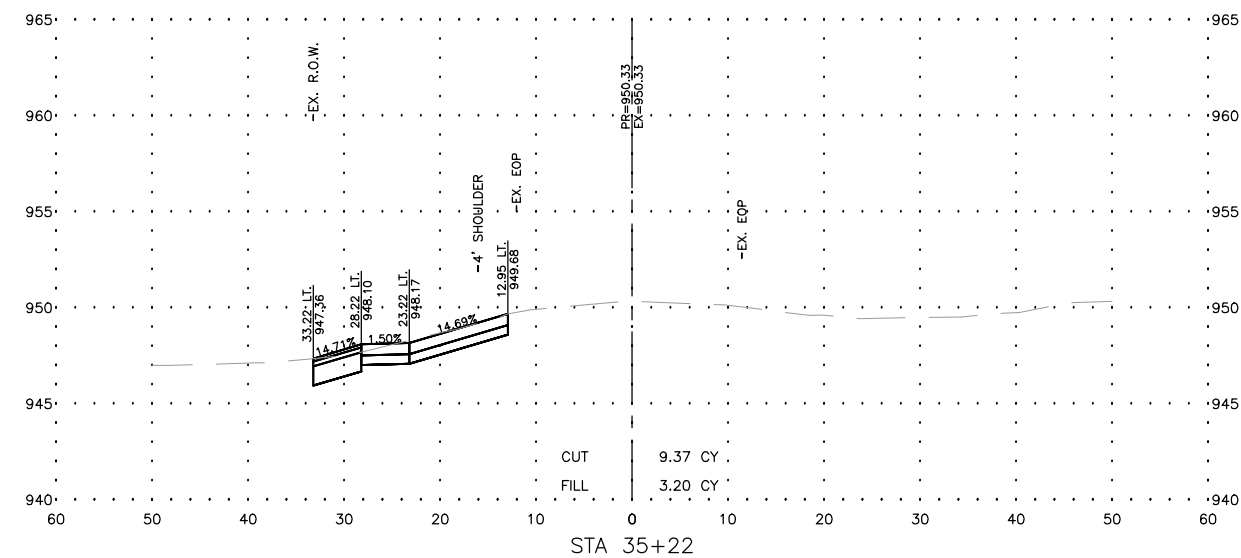
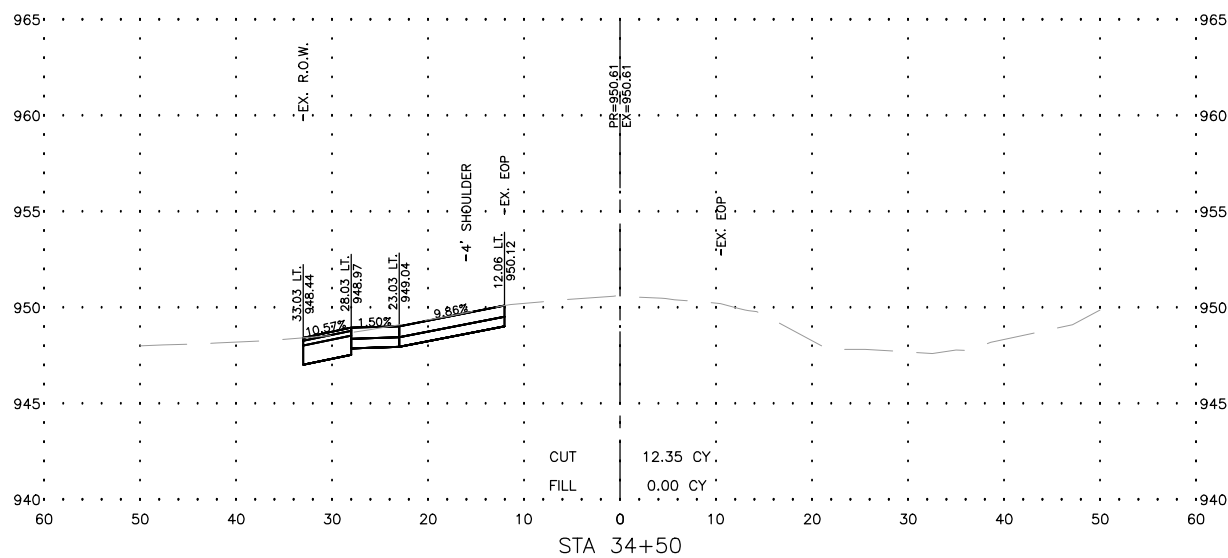
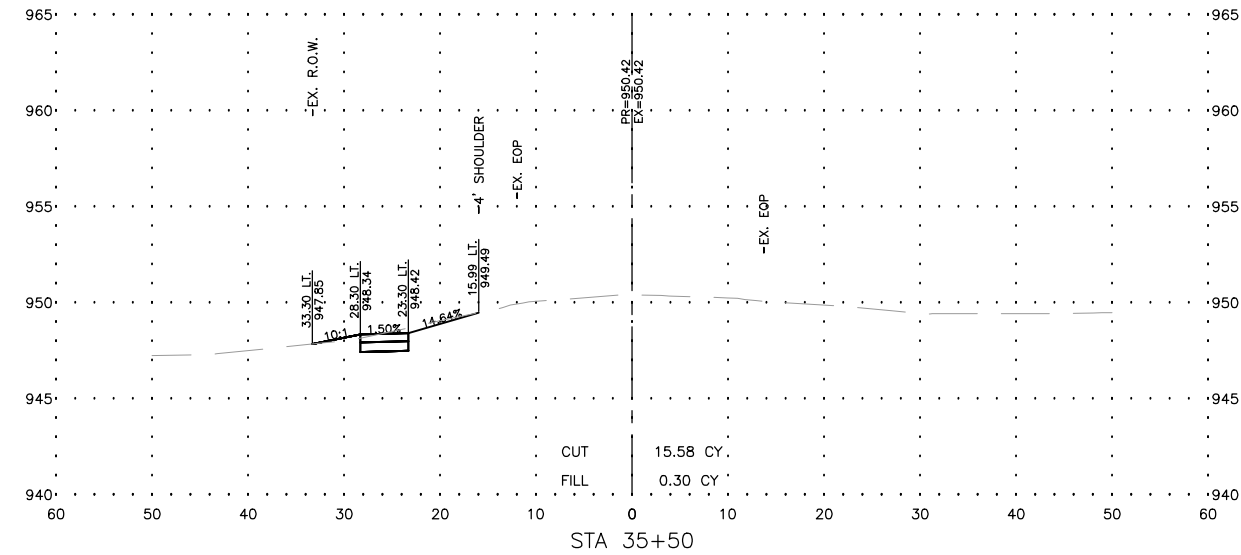
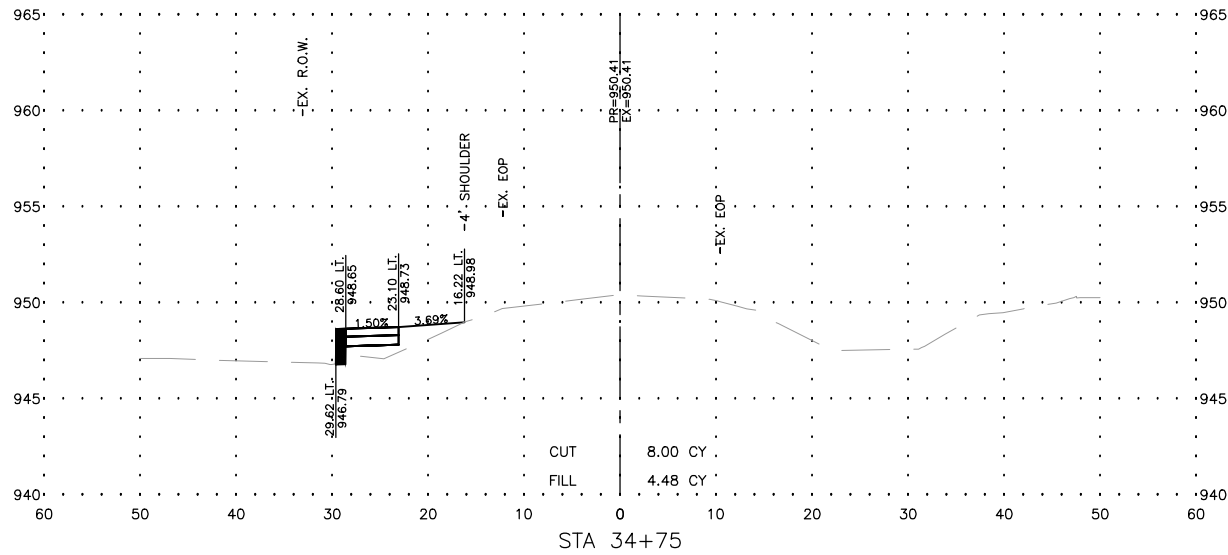
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DRAWING:  
CROSS SECTIONS STA. 32+75 TO 34+00

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JOB NUMBER:  
14-785

SHEET NUMBER:  
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**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
VILLAGE OF LENA  
122 EAST MAIN STREET  
LENA, IL 61048

PROJECT AND LOCATION:  
SIDEWALK IMPROVEMENTS  
LENA, IL

DRAWN BY: M.S.  
APPROVED BY: P.E.  
DATE: 3/13/18  
SCALE: AS NOTED

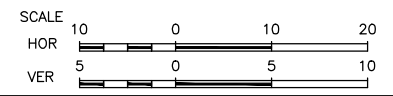
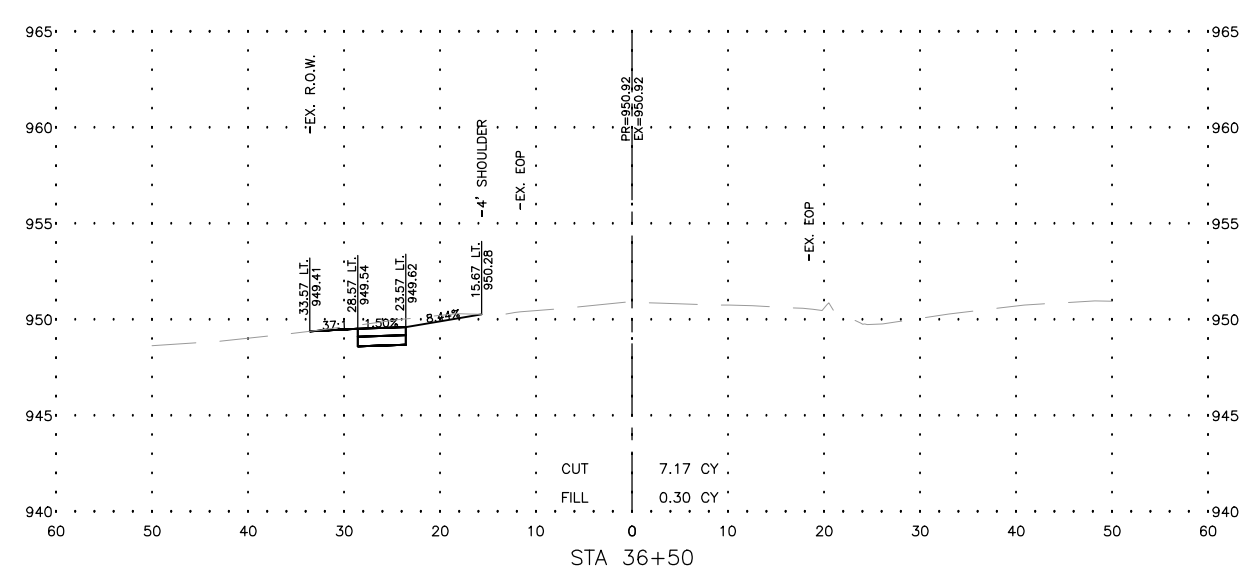
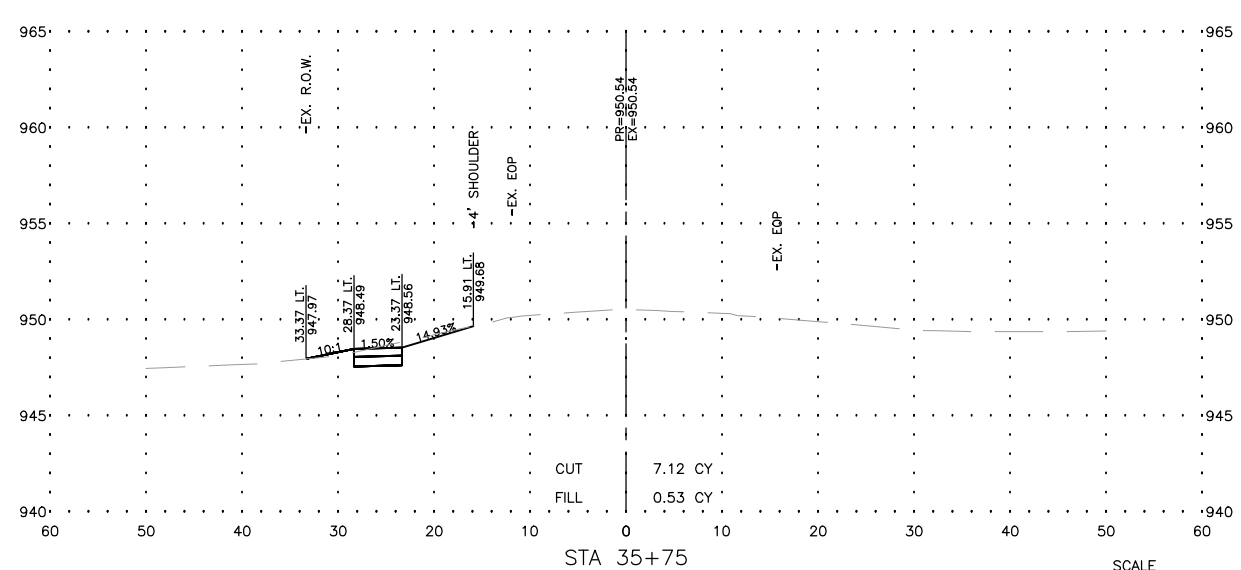
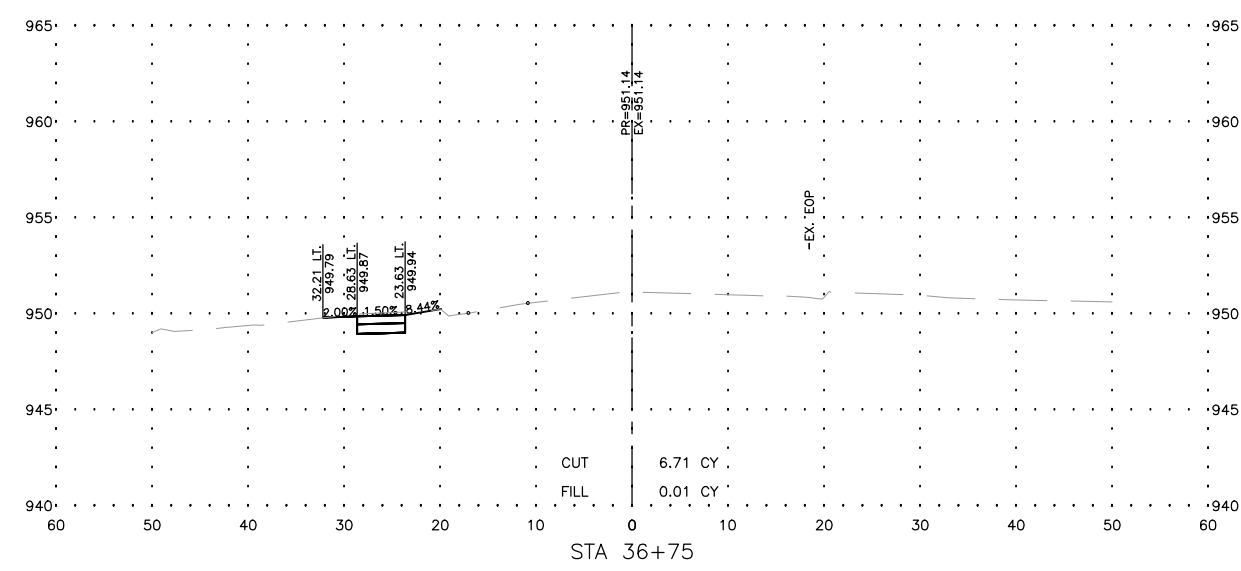
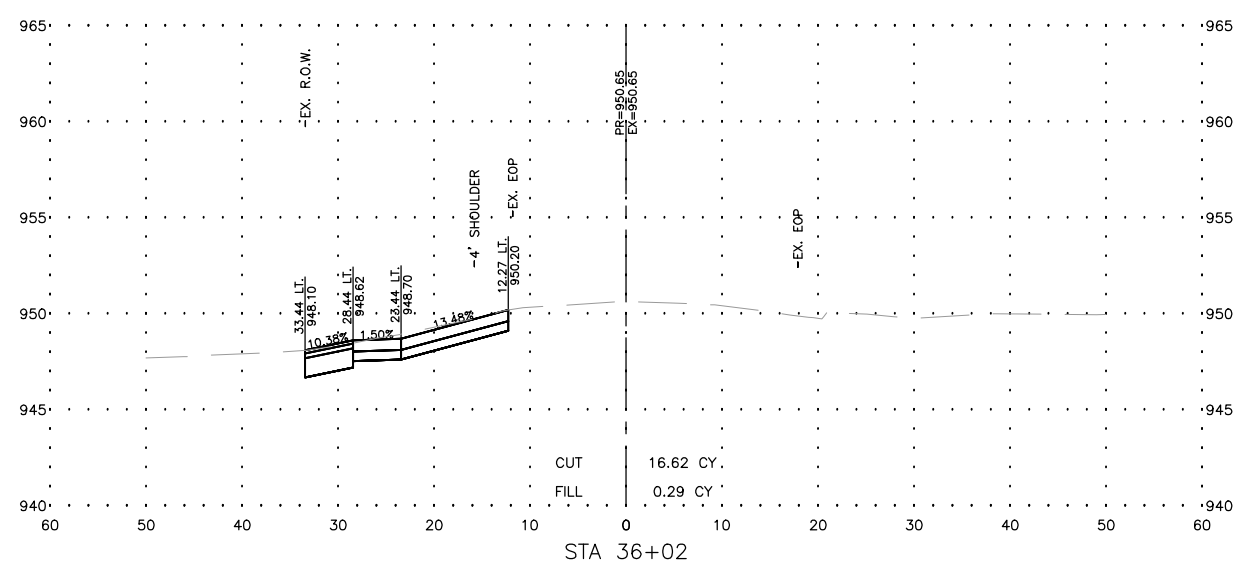
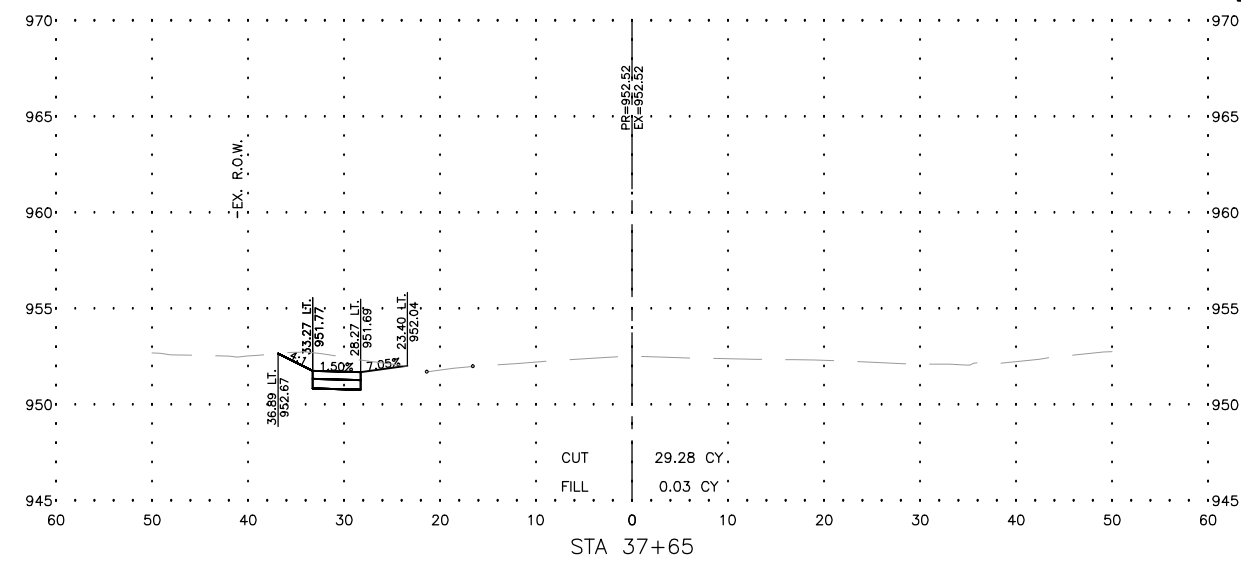
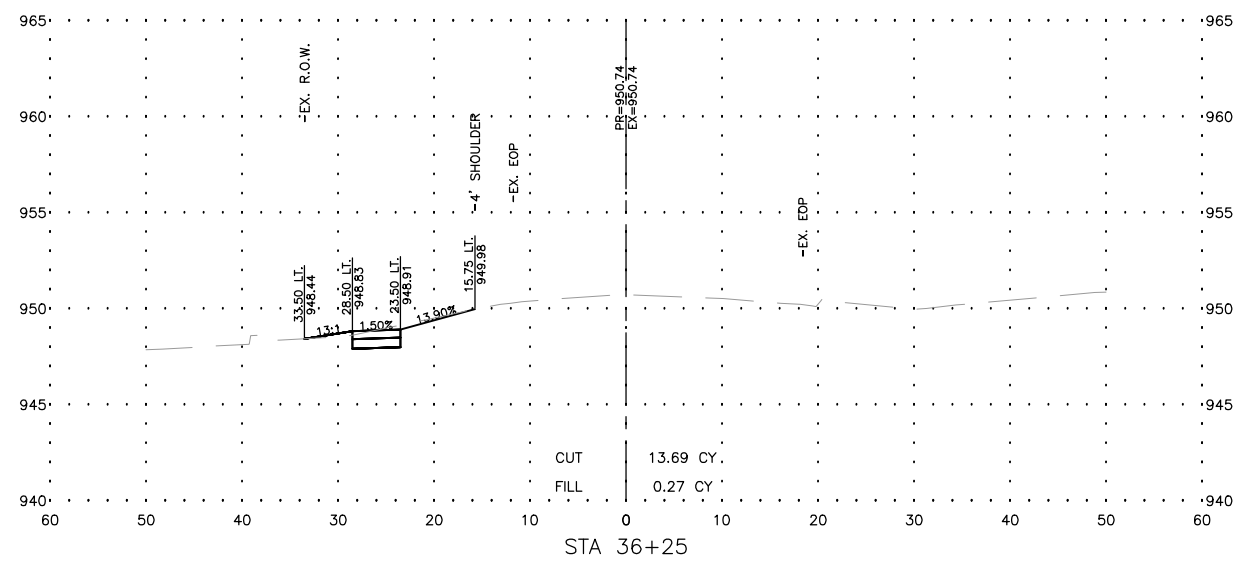
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DRAWING:  
CROSS SECTIONS STA. 34+25 TO 35+50

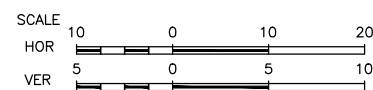
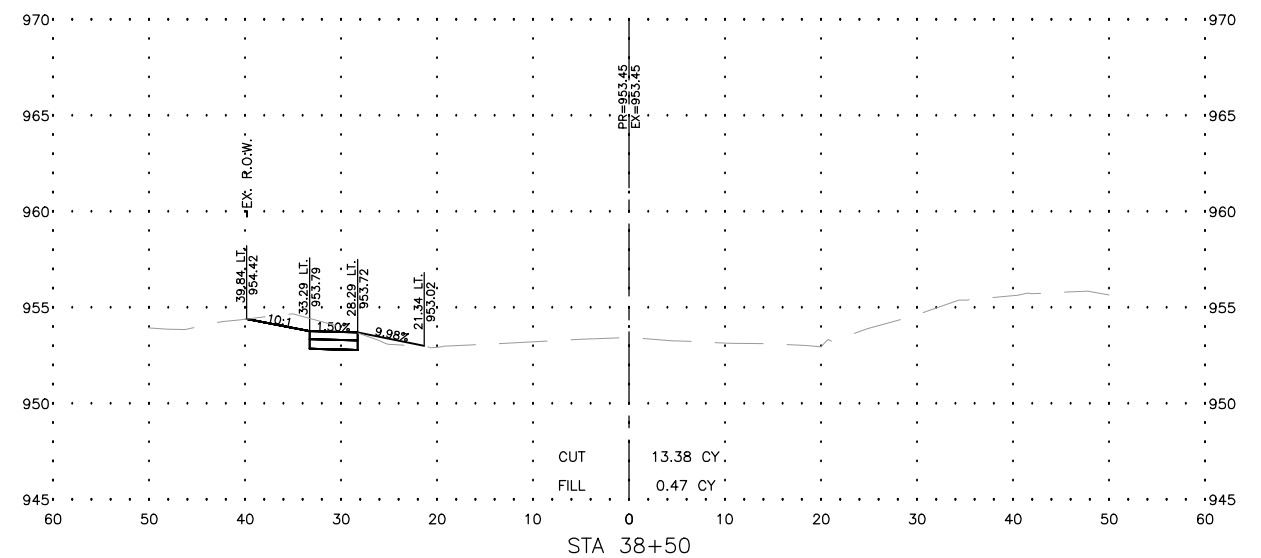
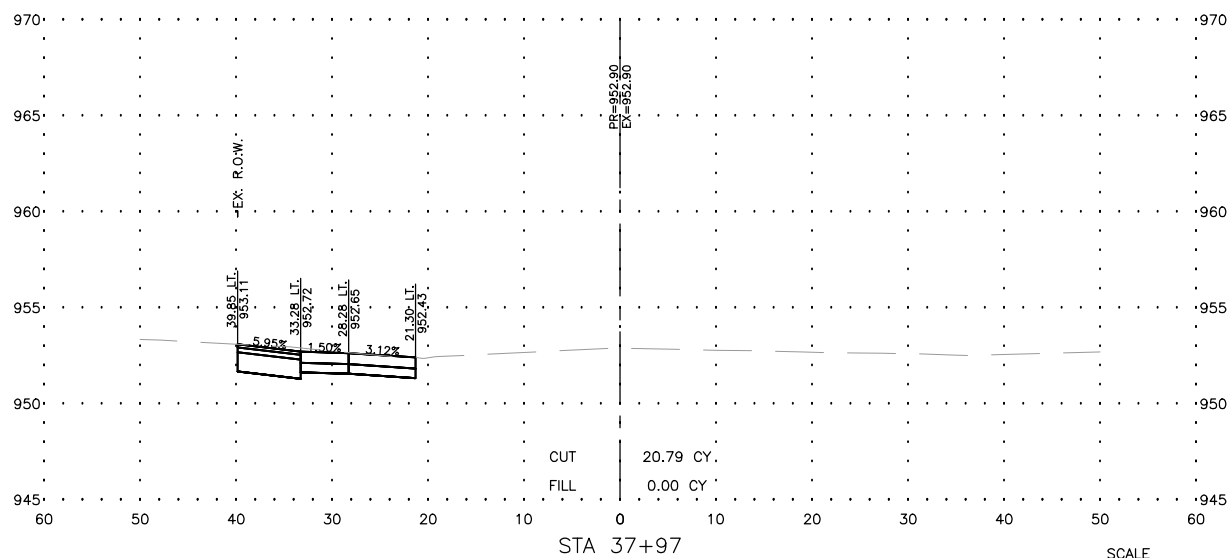
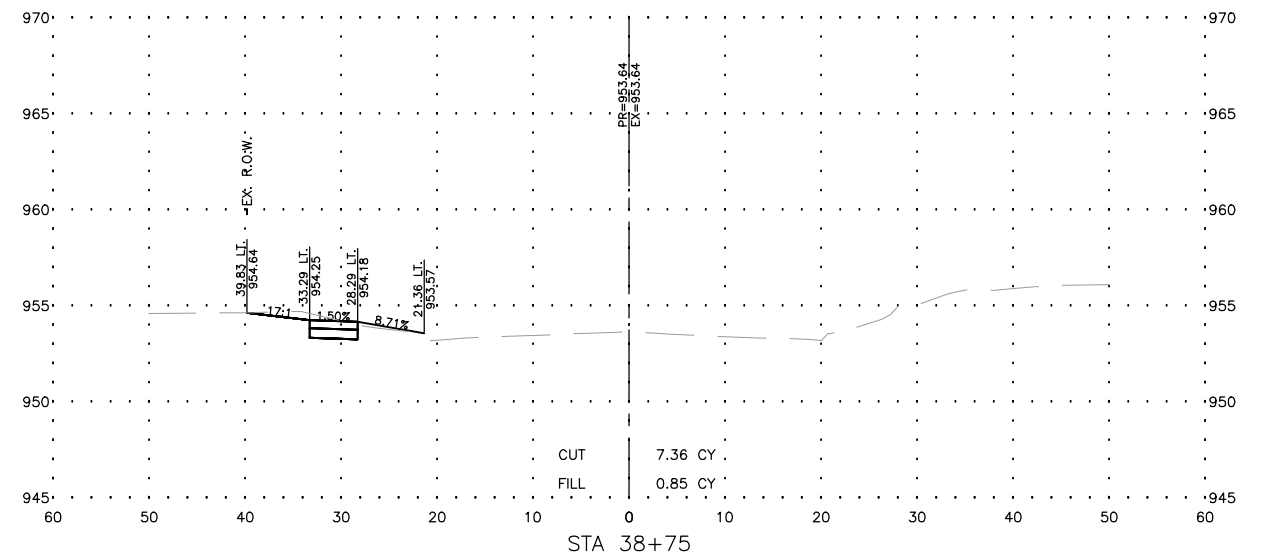
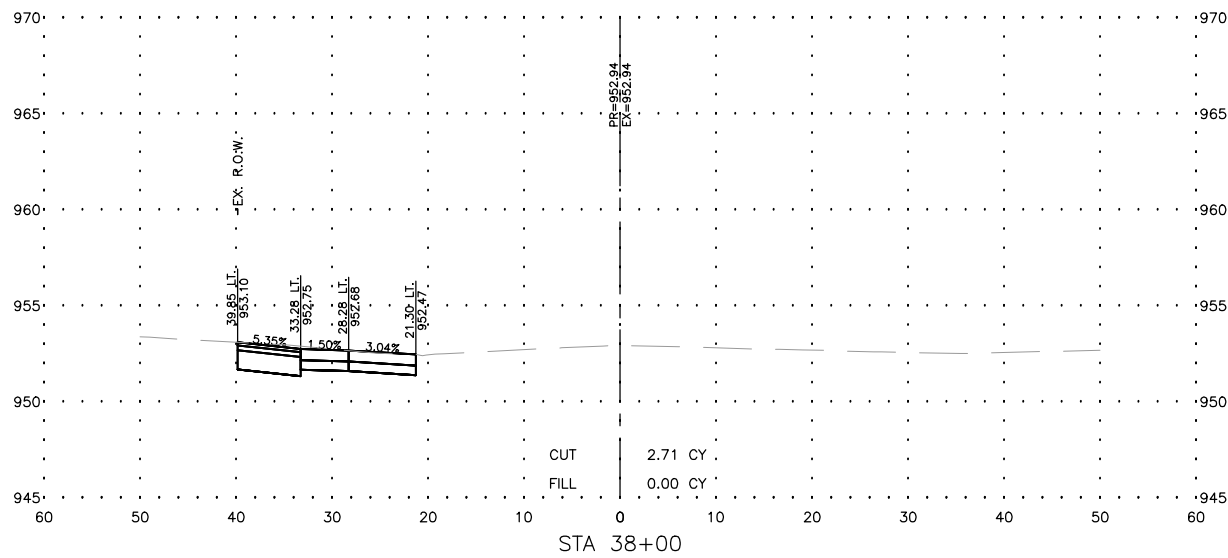
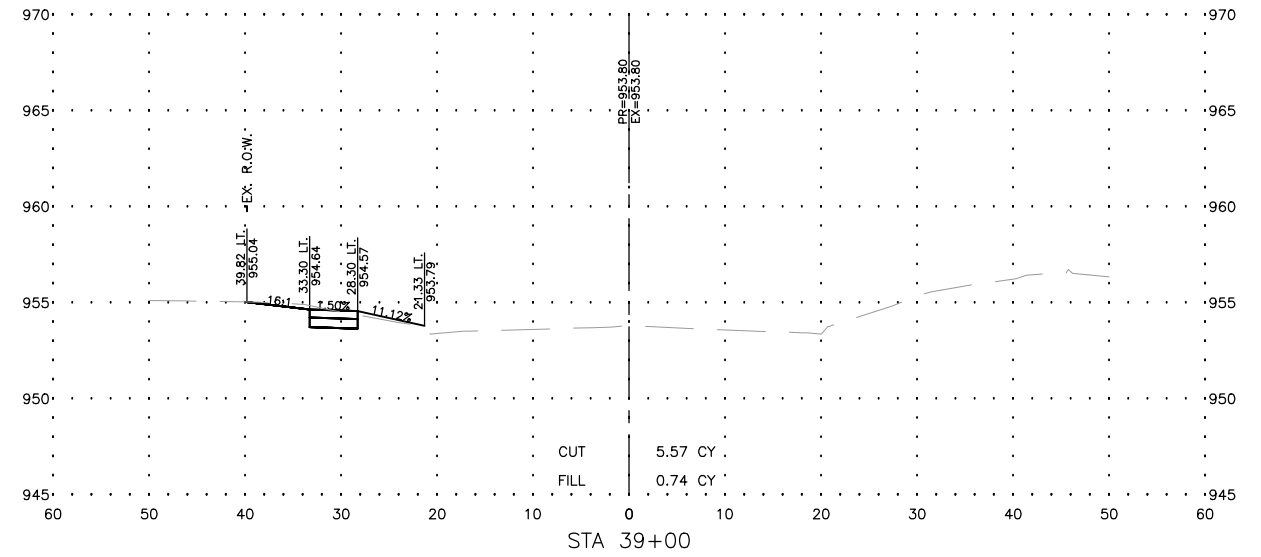
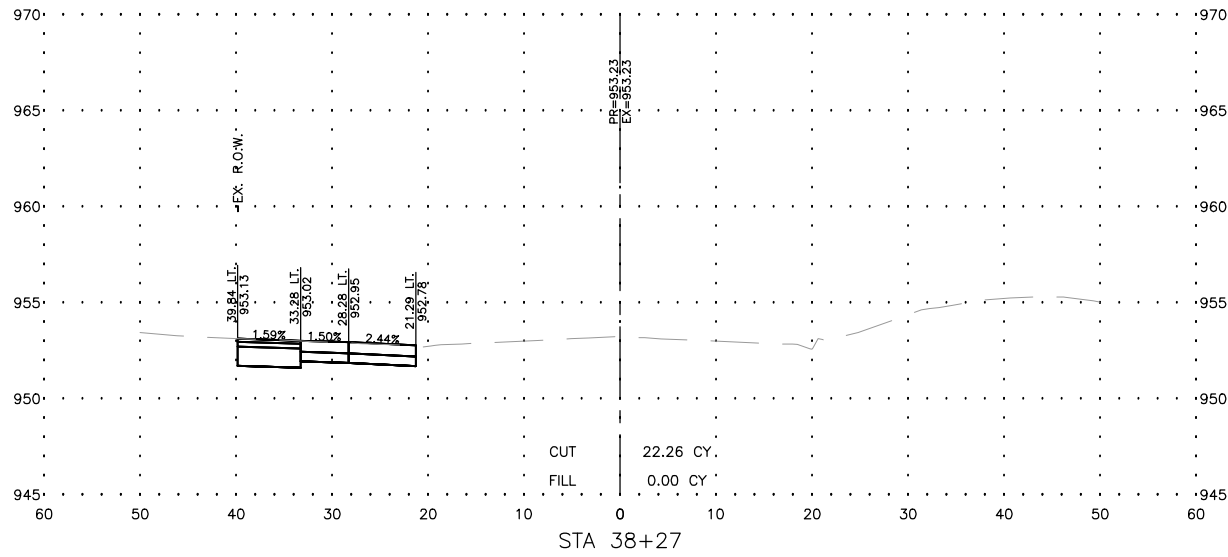
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JOB NUMBER:  
14-785

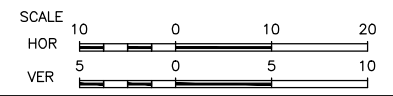
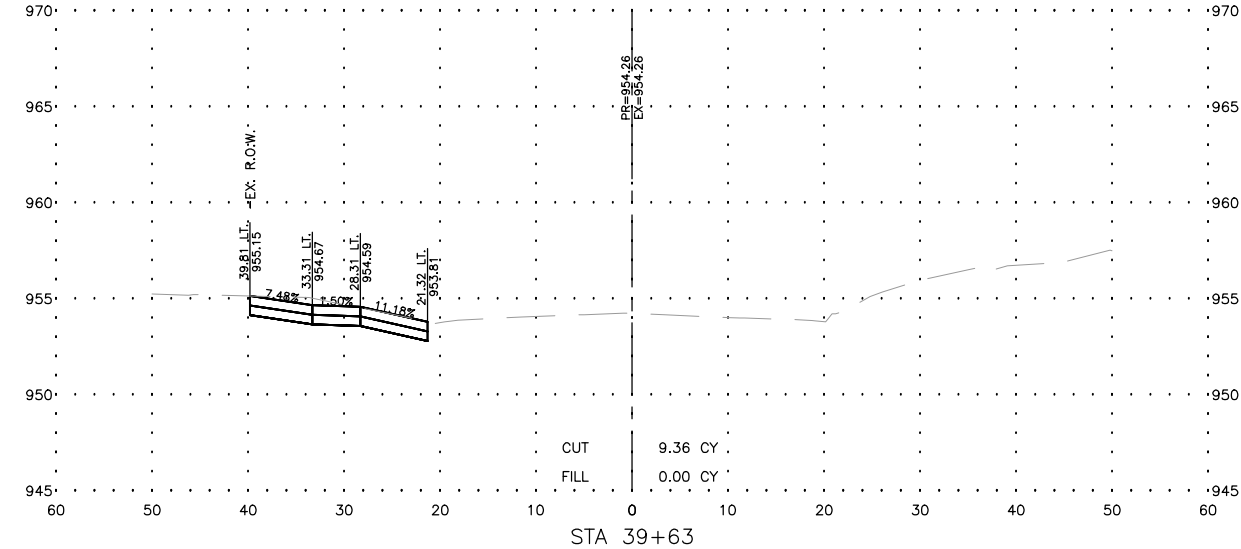
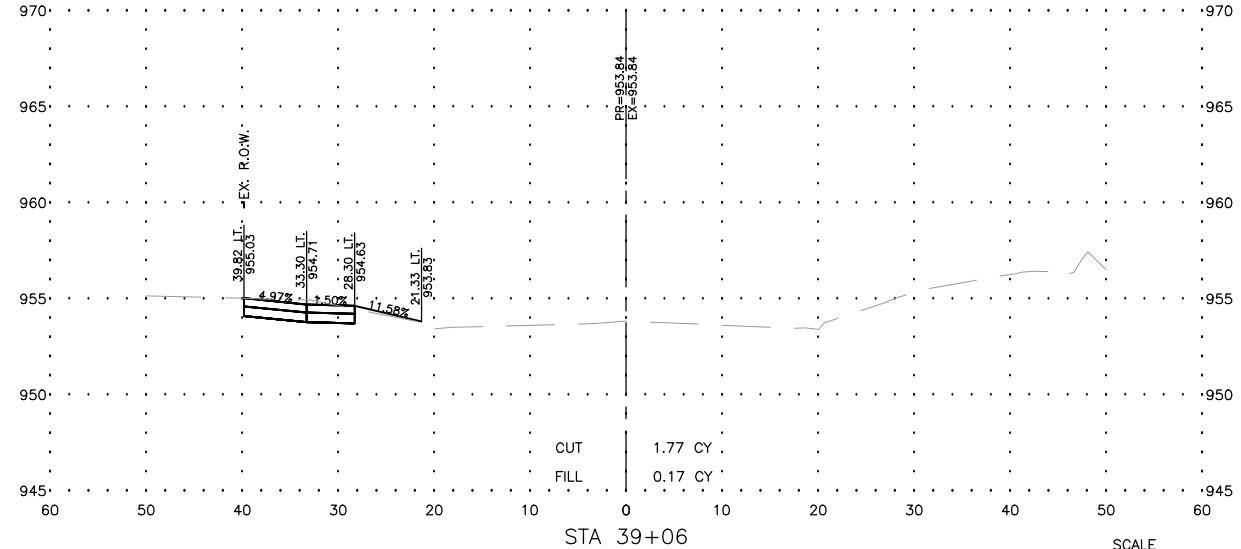
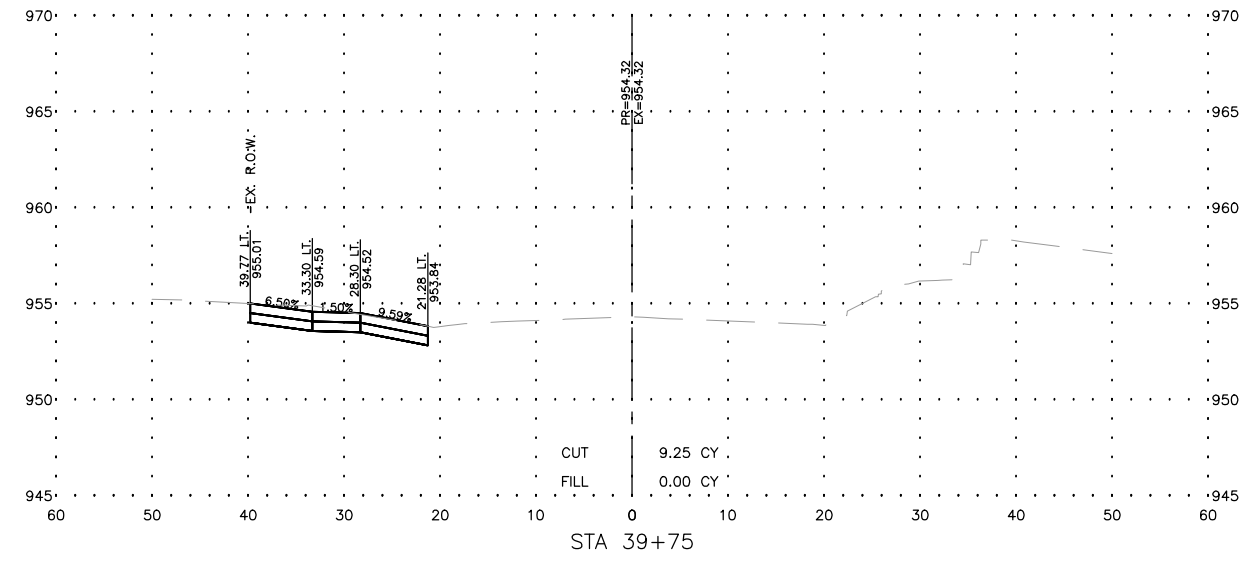
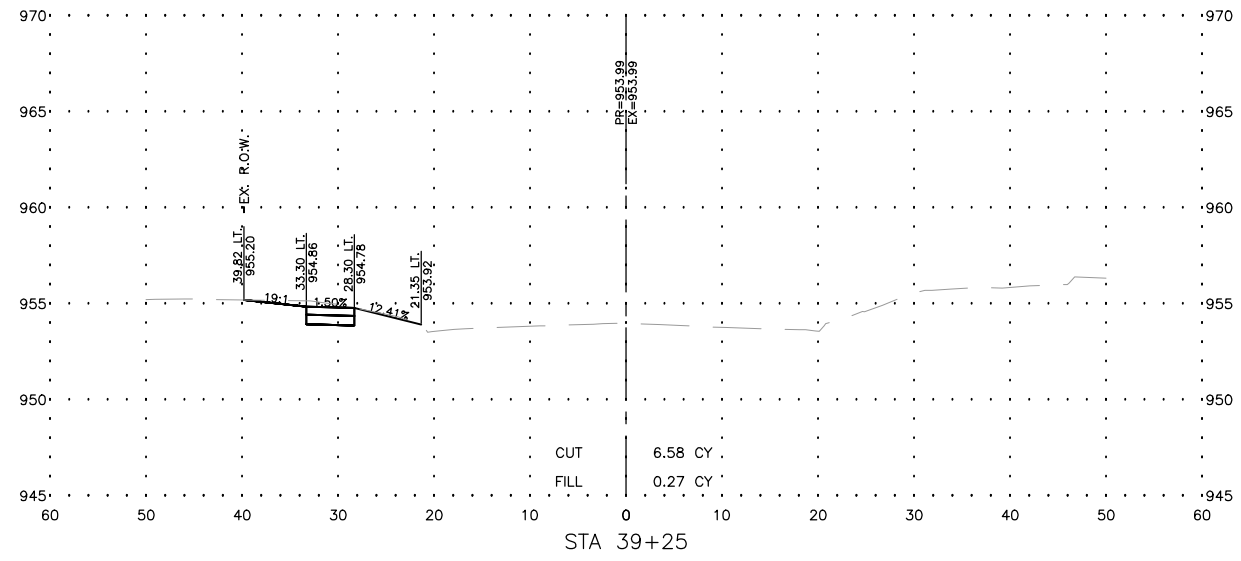
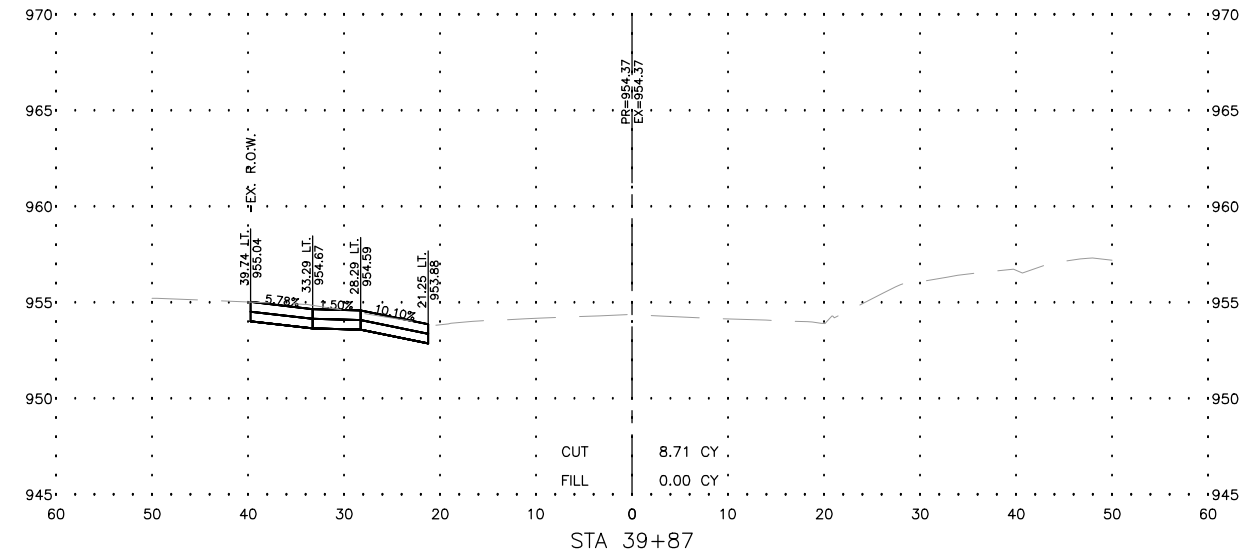
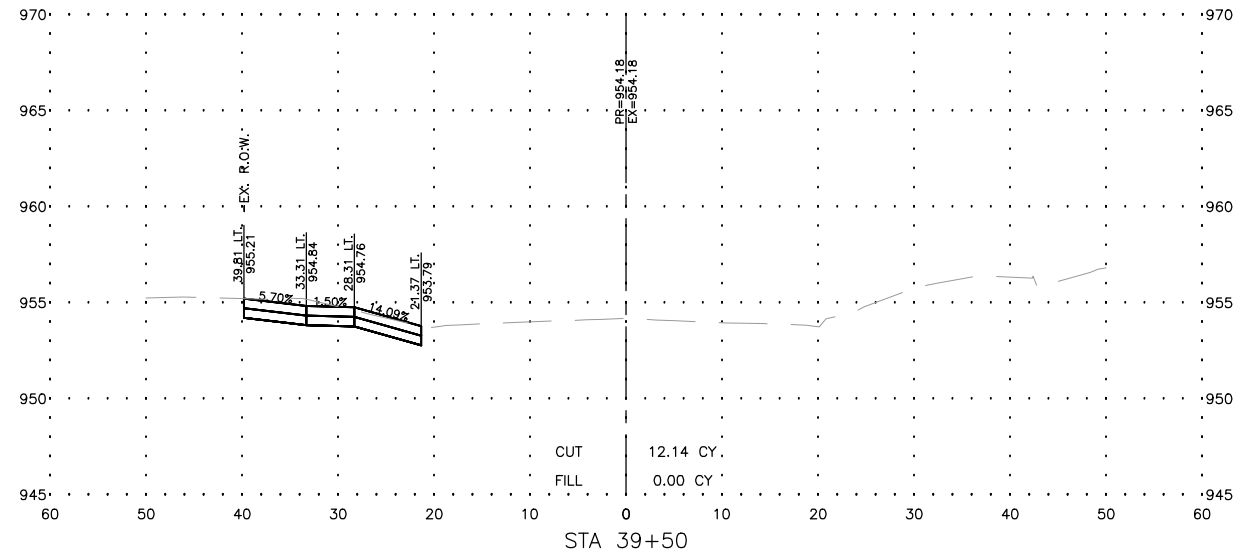
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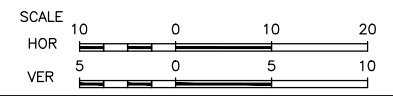
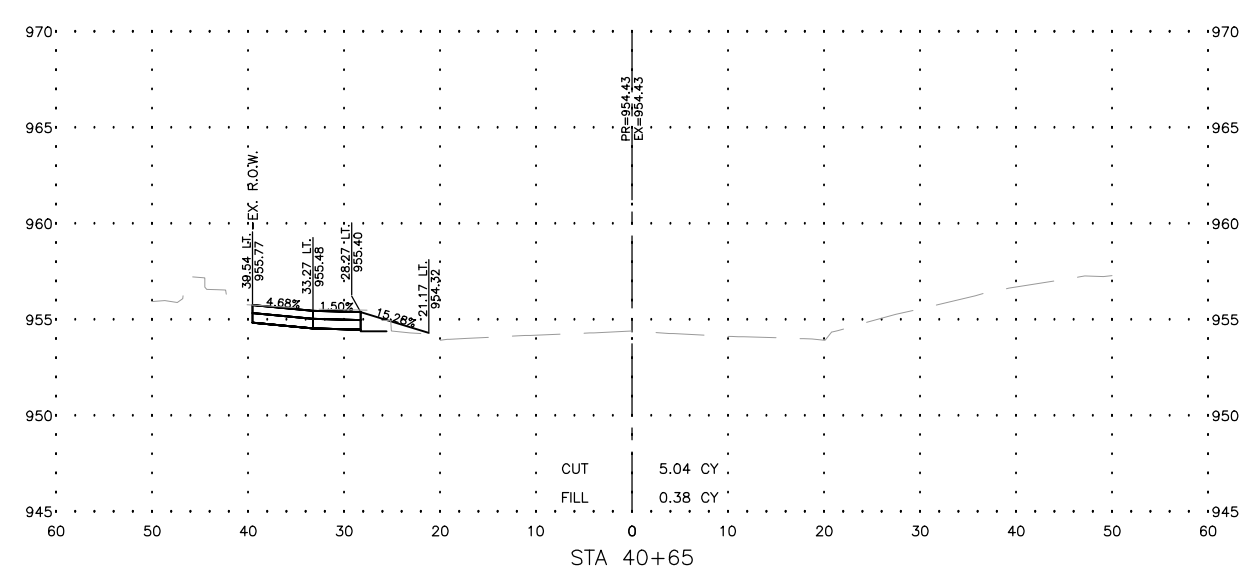
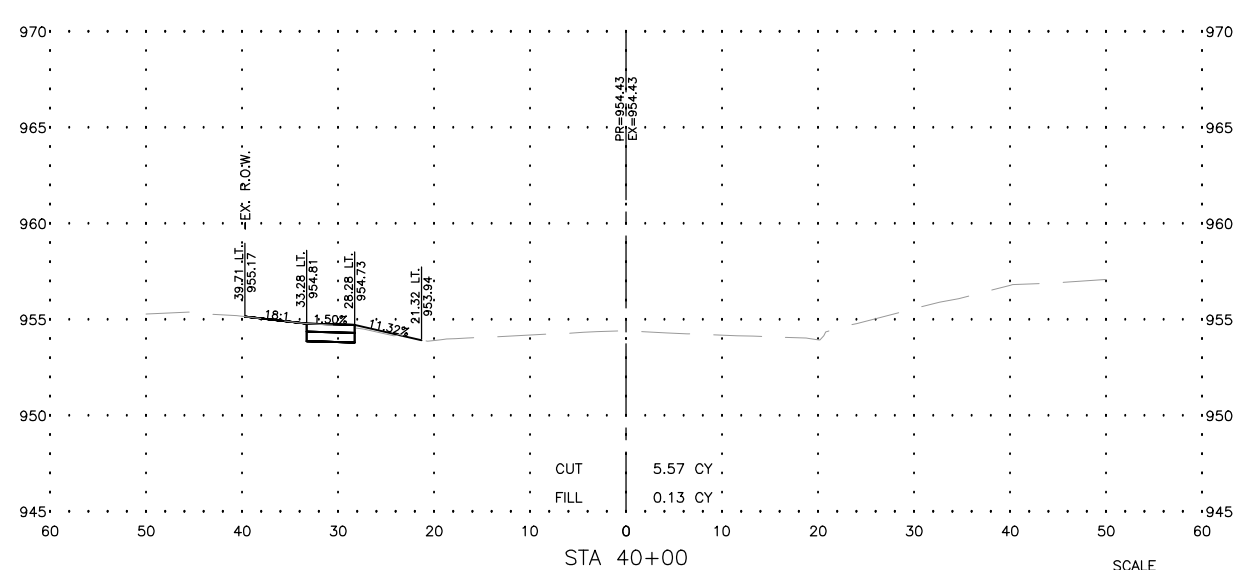
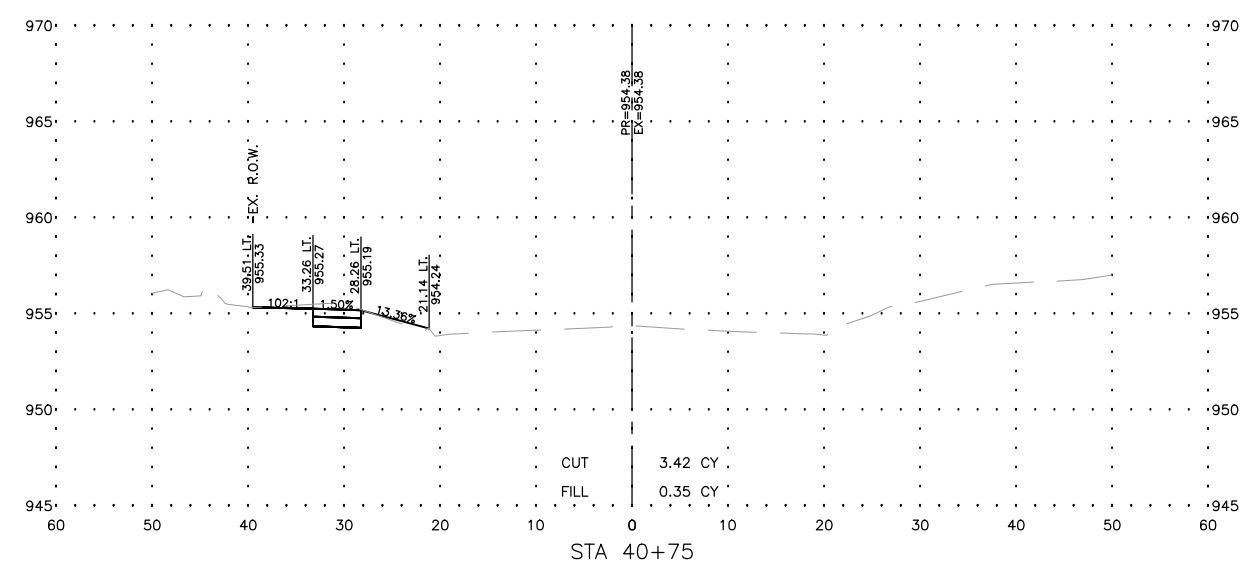
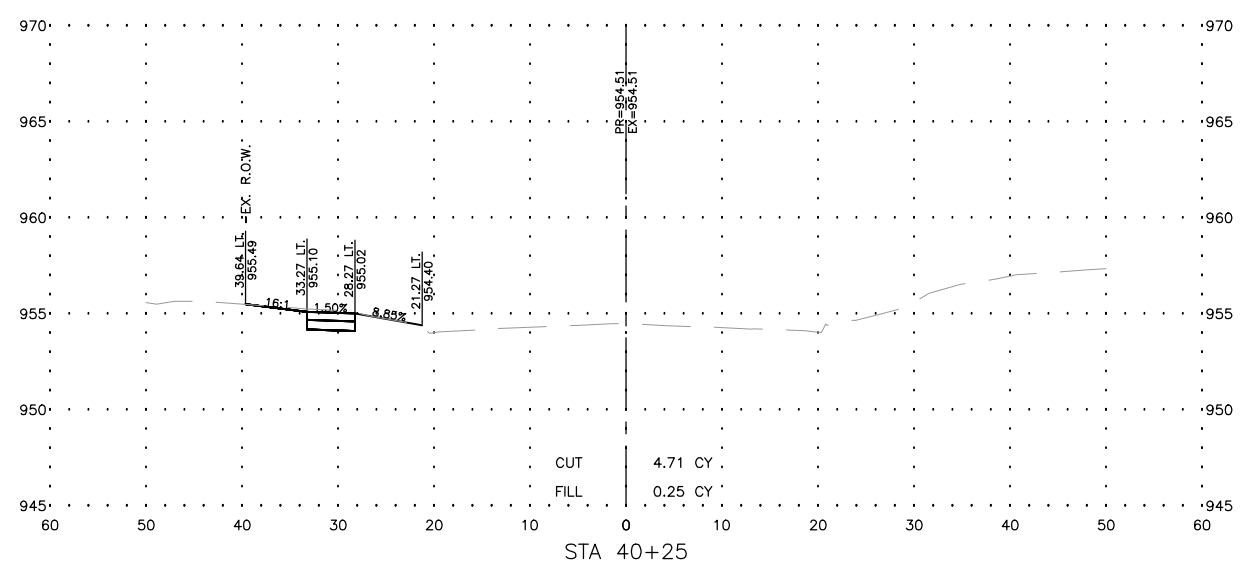
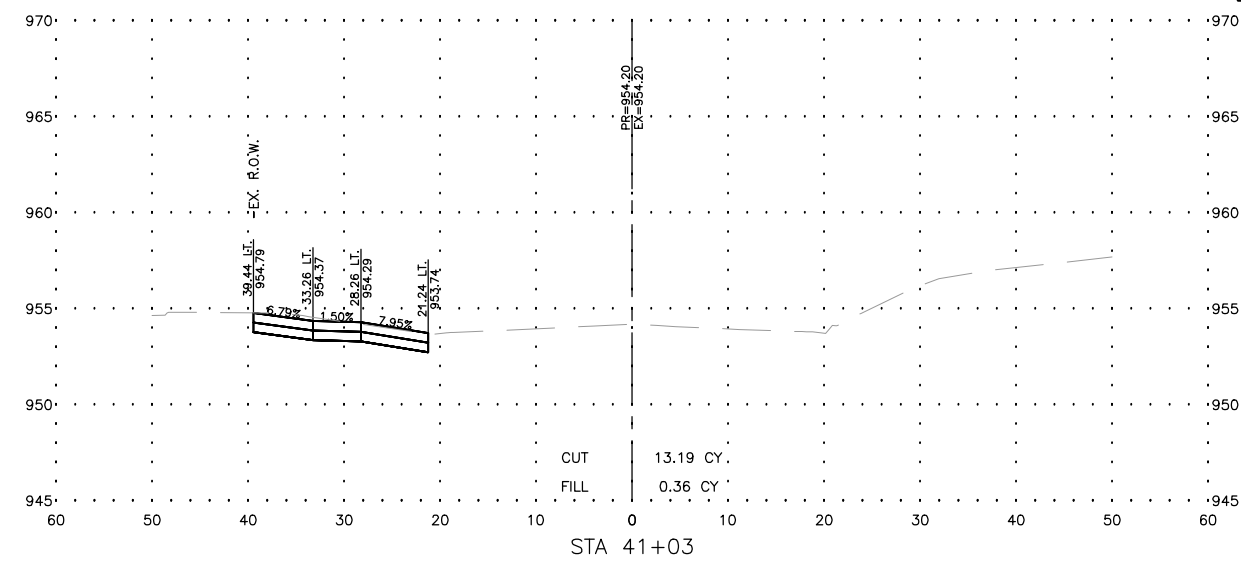
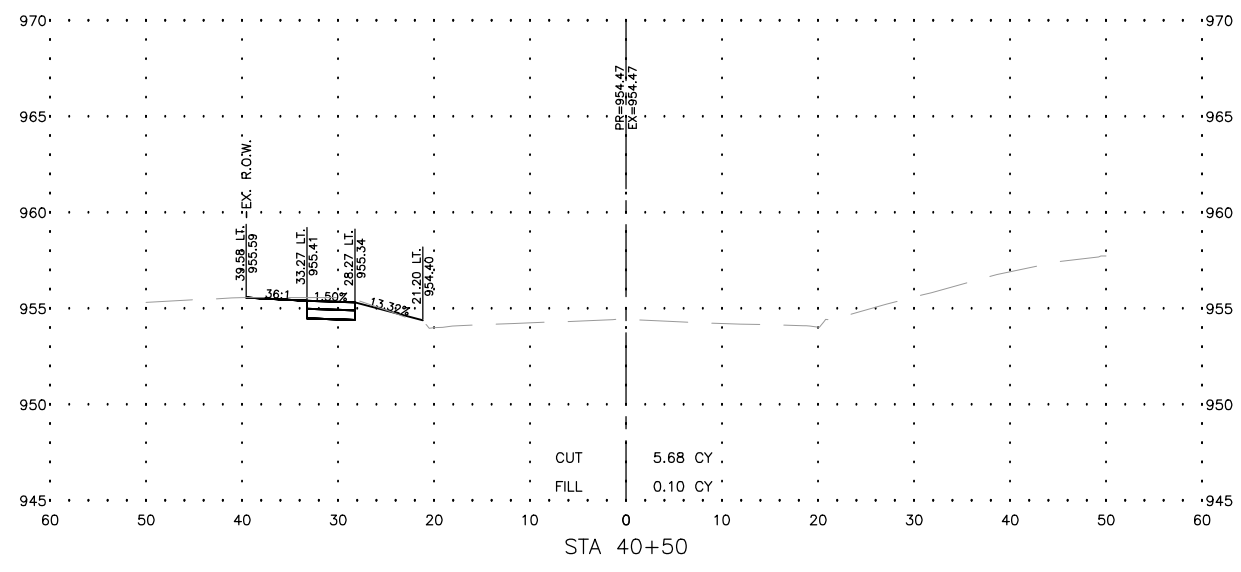


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**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS  
IOWA  
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122 EAST MAIN STREET  
LENA, IL 61048

PROJECT AND LOCATION:  
SIDEWALK IMPROVEMENTS  
LENA, IL

DRAWN BY: M.S.  
APPROVED BY: P.E.  
DATE: 3/13/18  
SCALE: AS NOTED

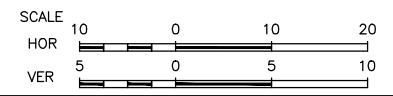
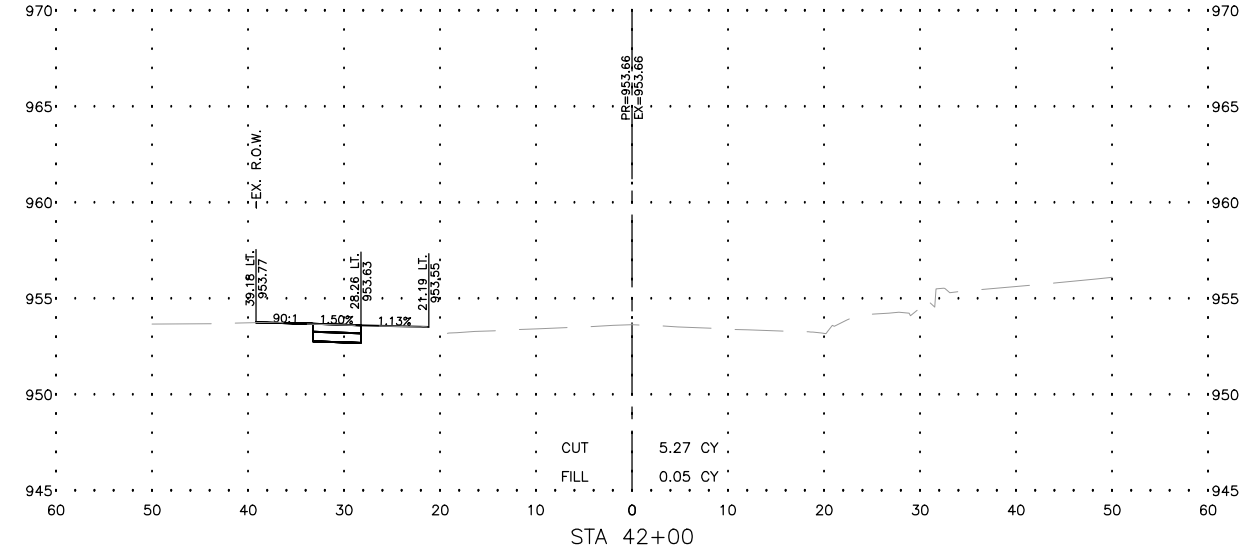
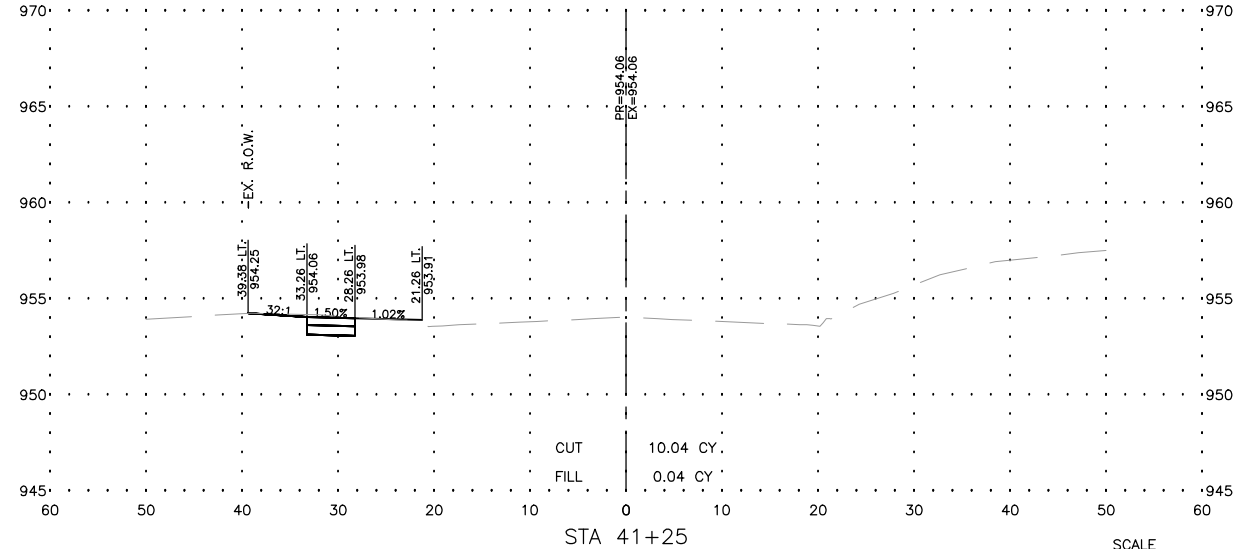
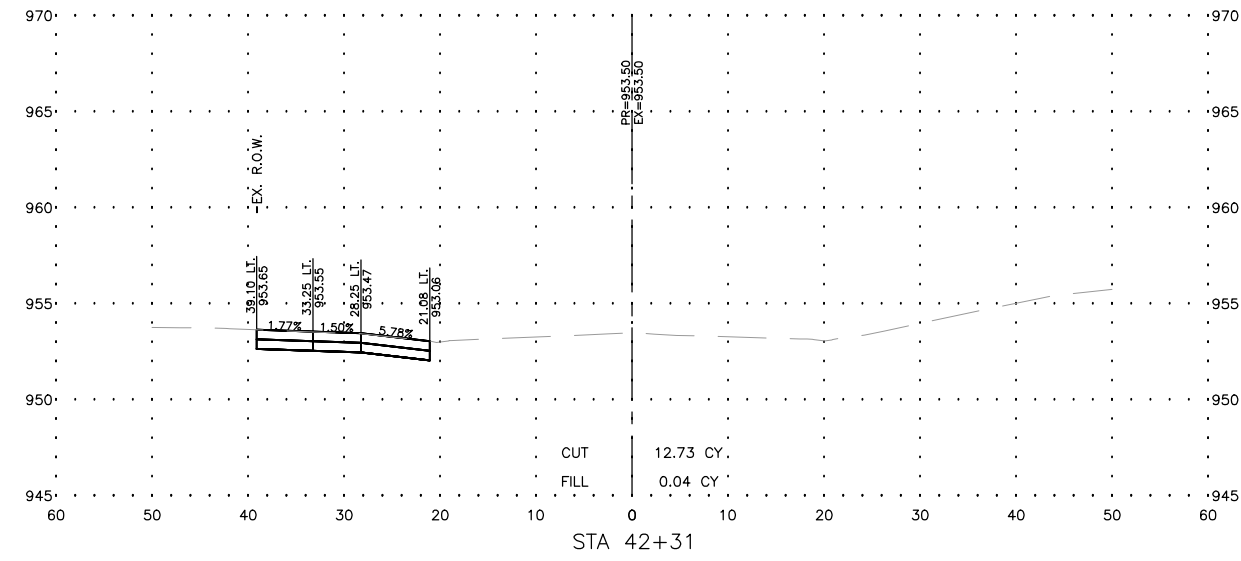
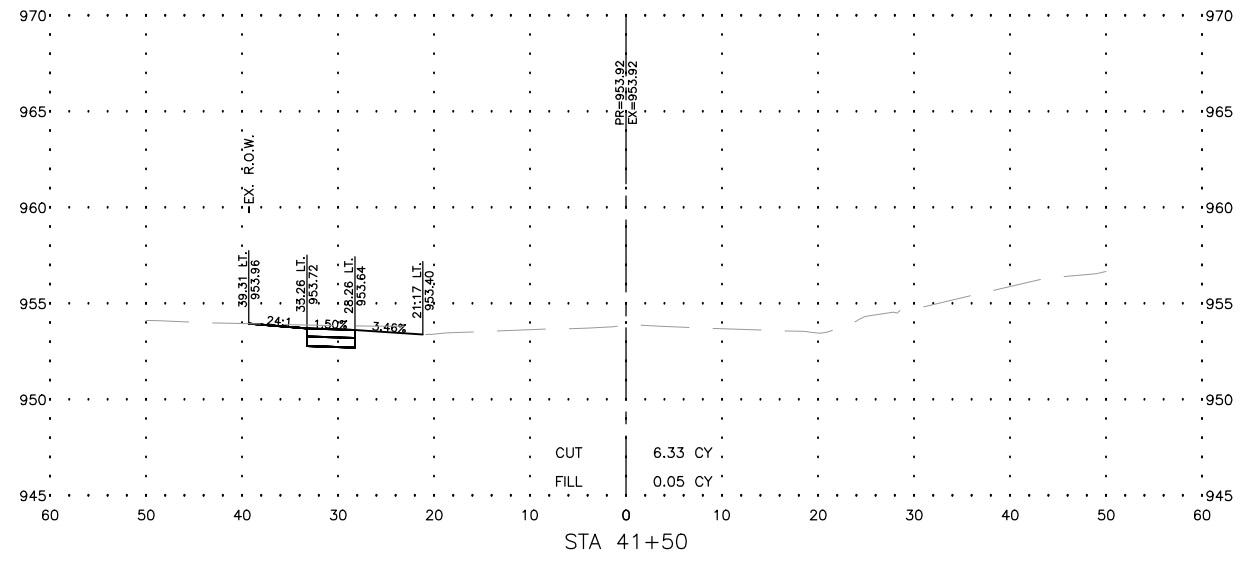
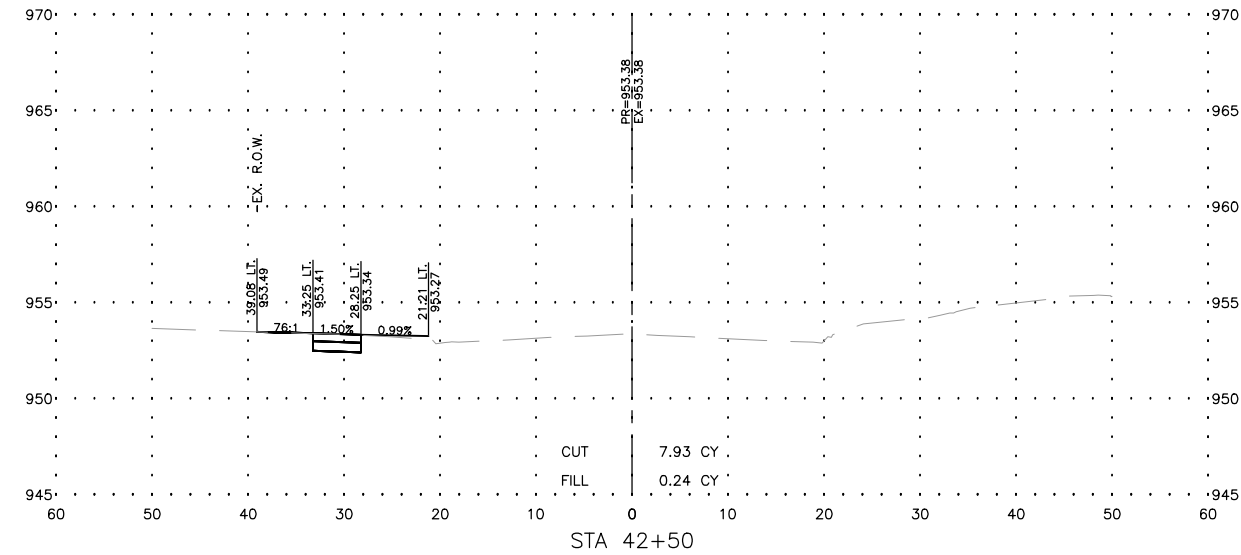
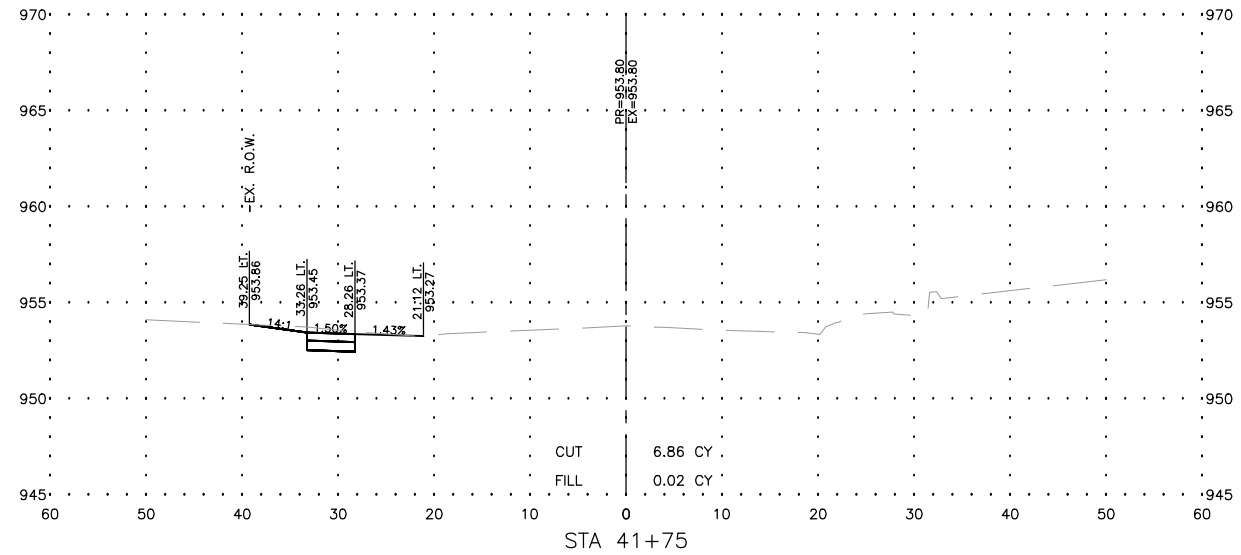
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DRAWING:  
CROSS SECTIONS STA. 40+00 TO 41+03

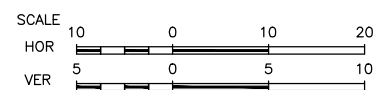
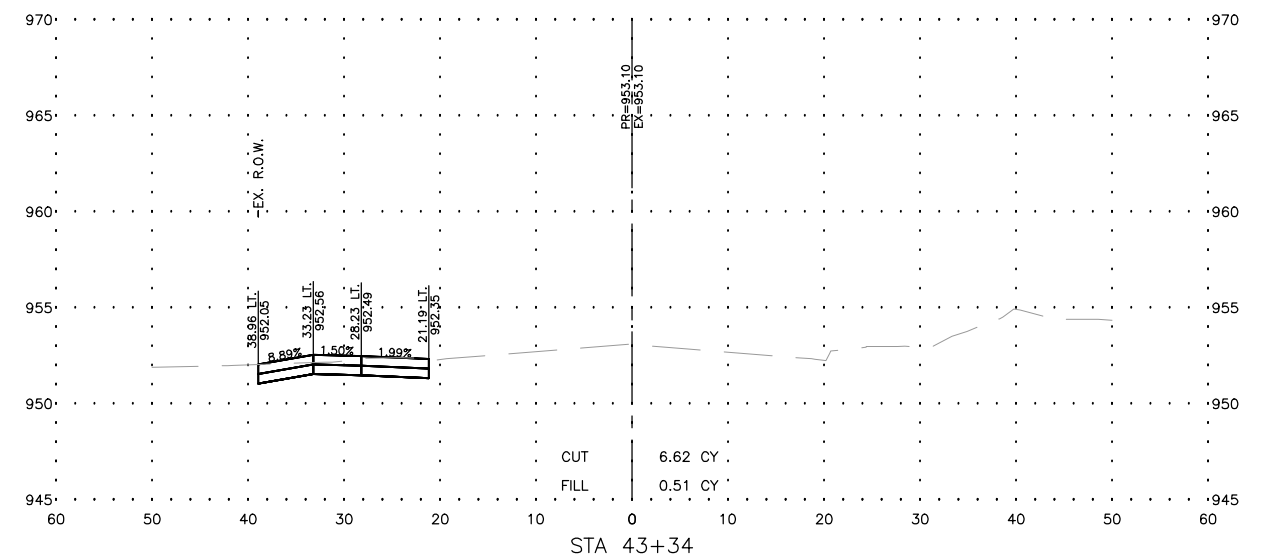
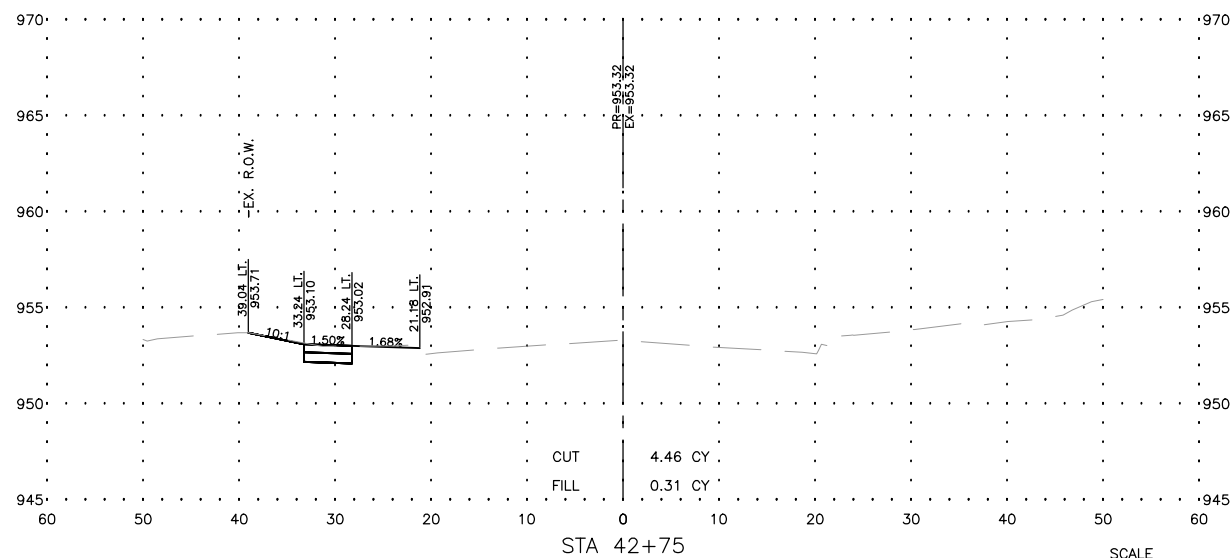
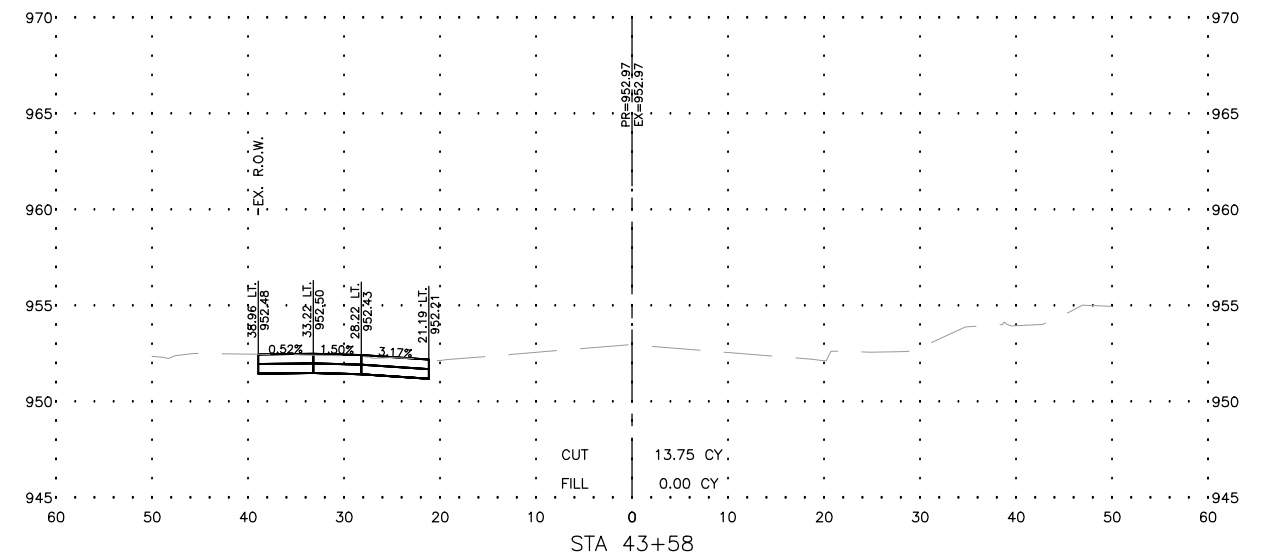
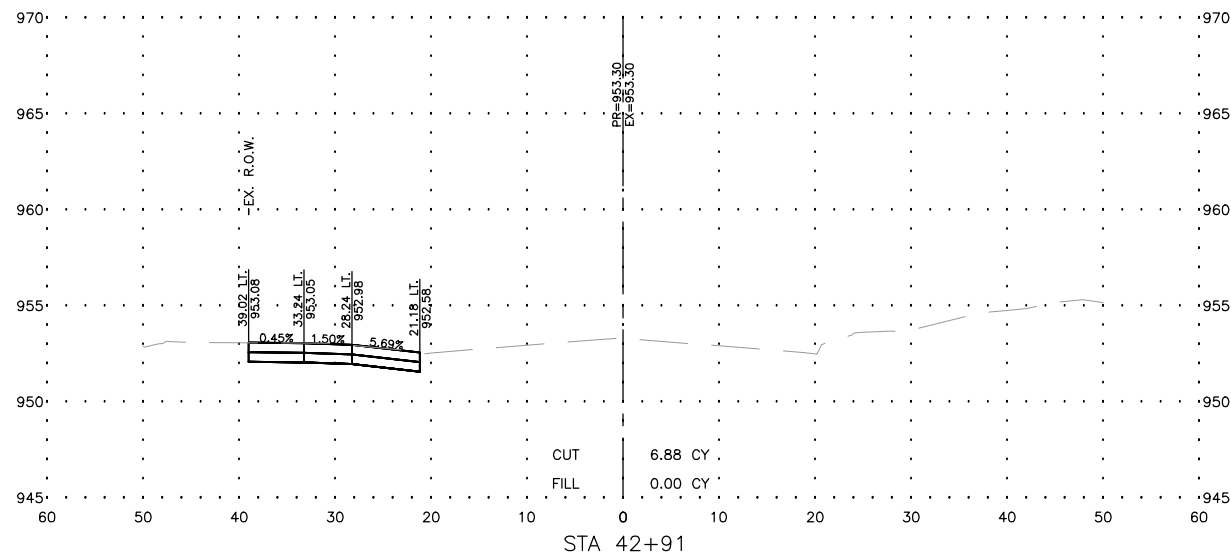
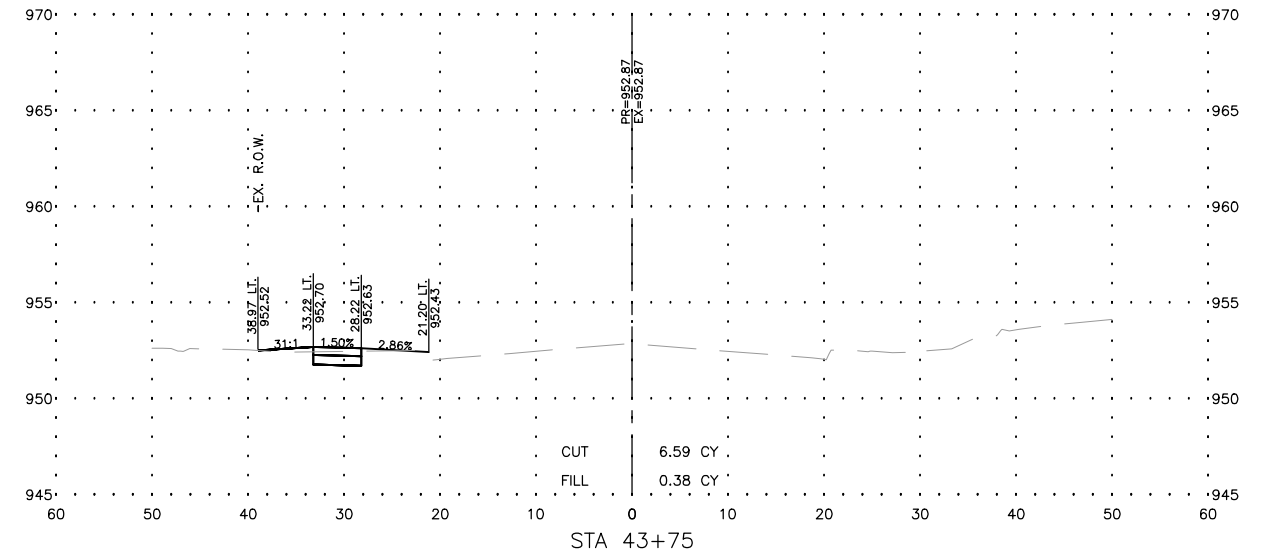
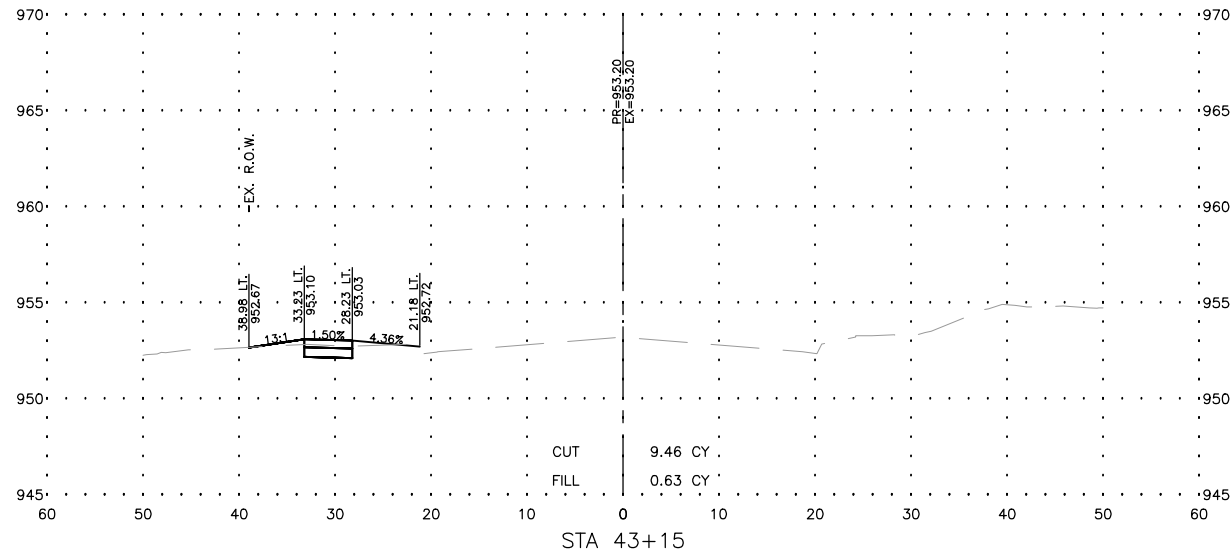
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JOB NUMBER:  
14-785

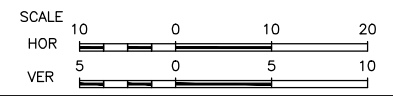
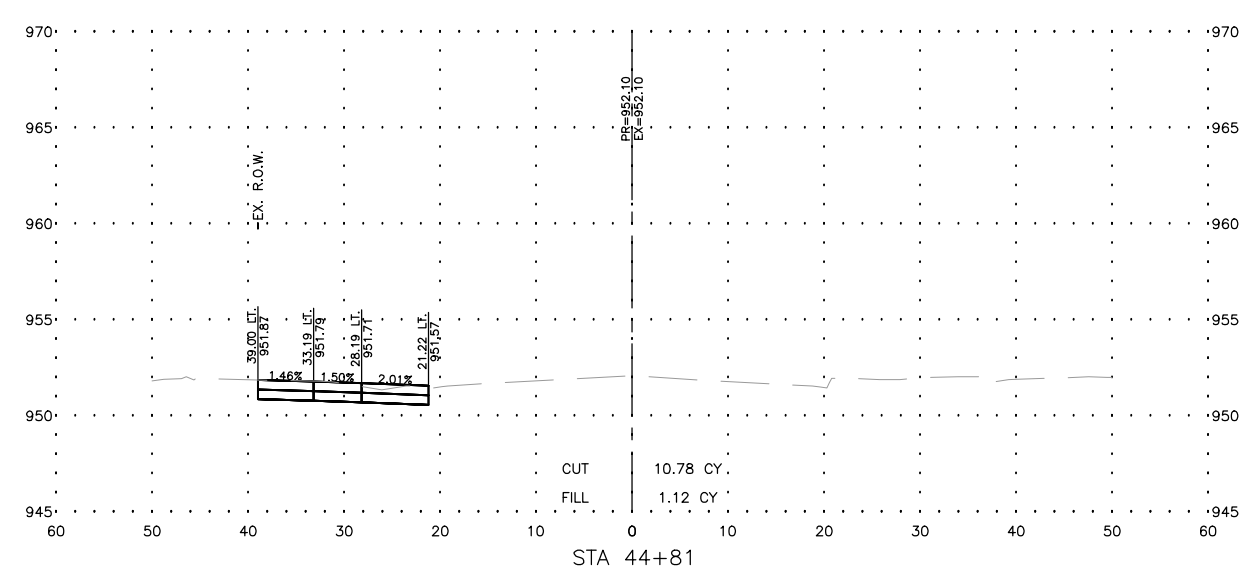
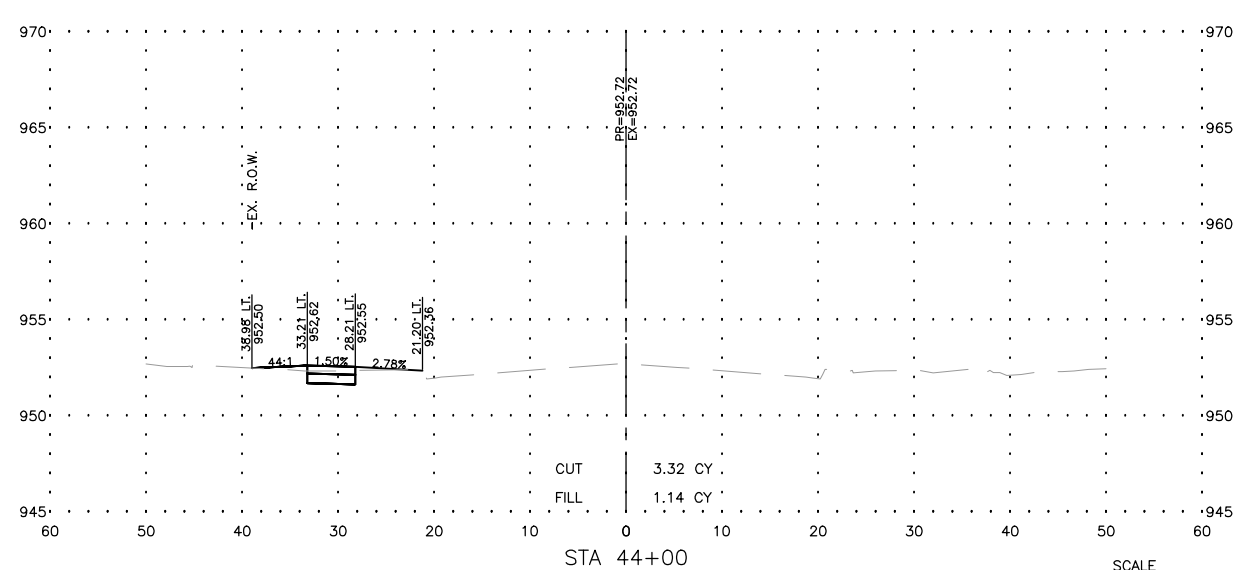
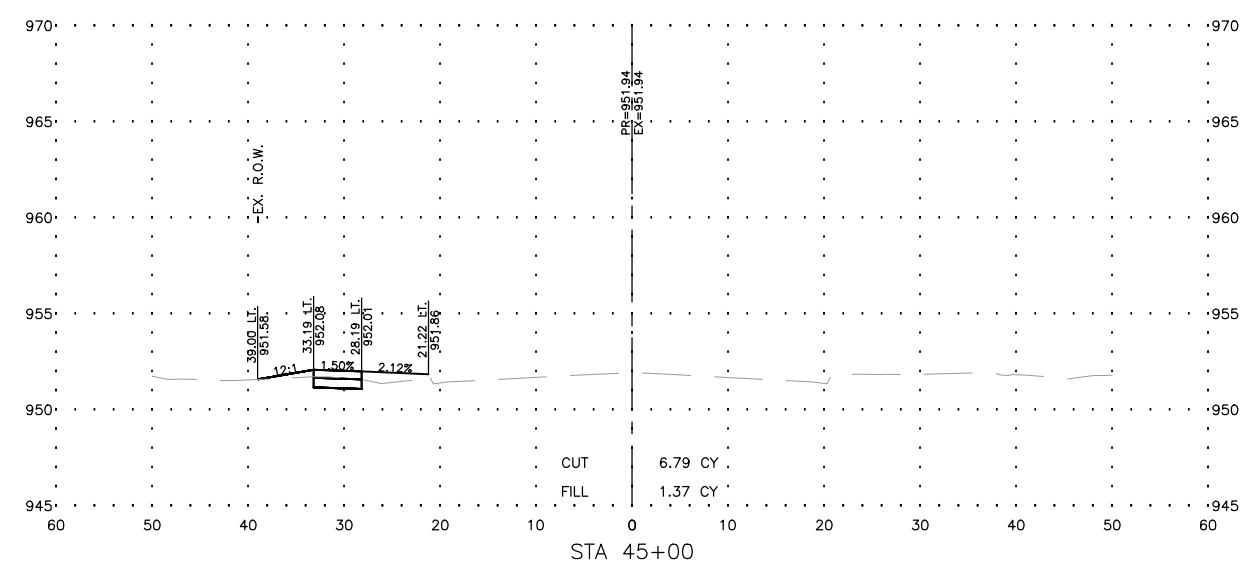
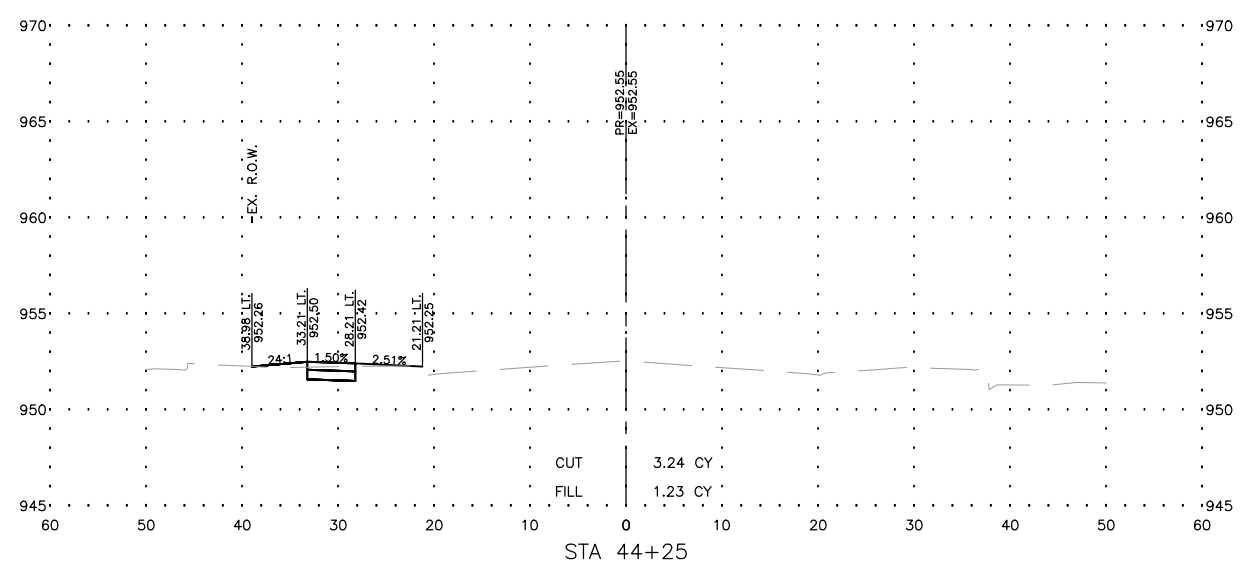
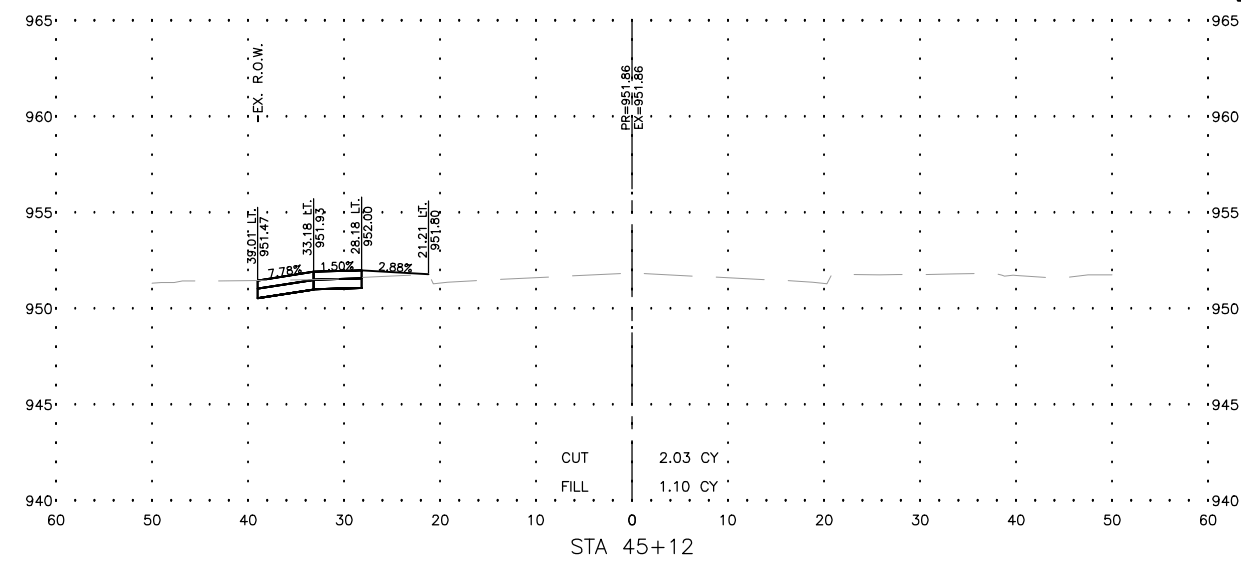
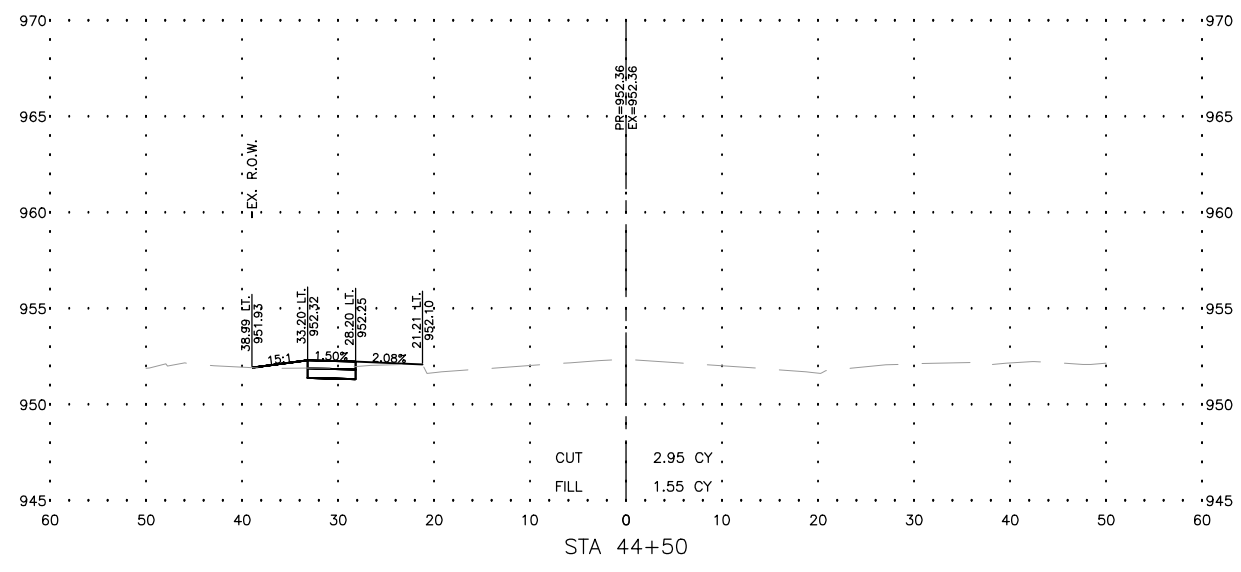
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33 of 41



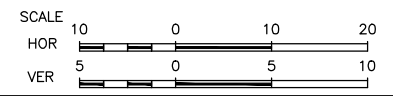
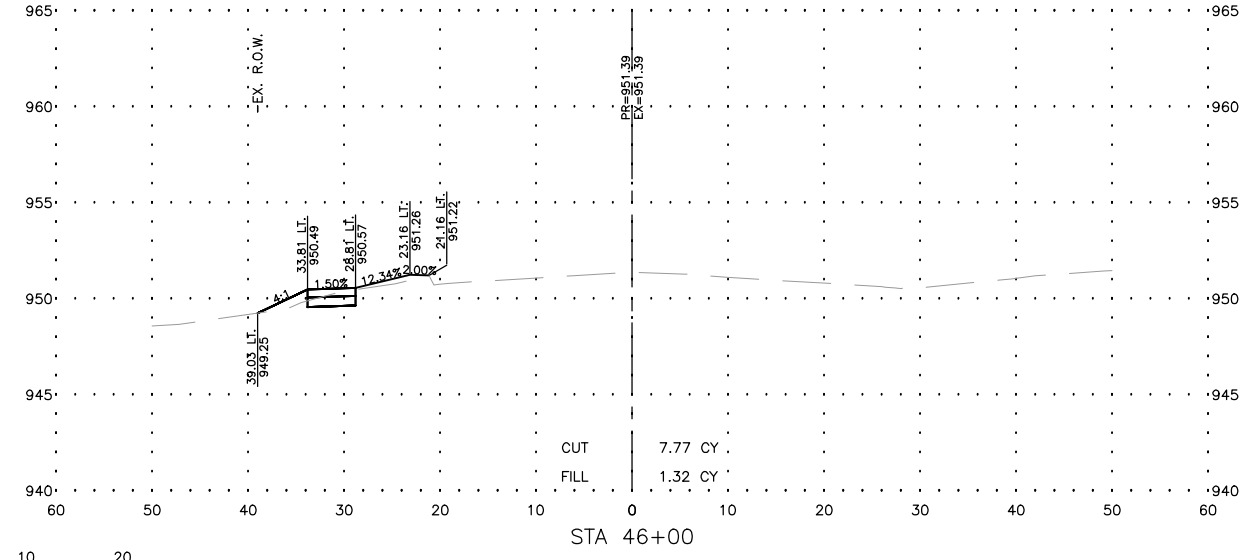
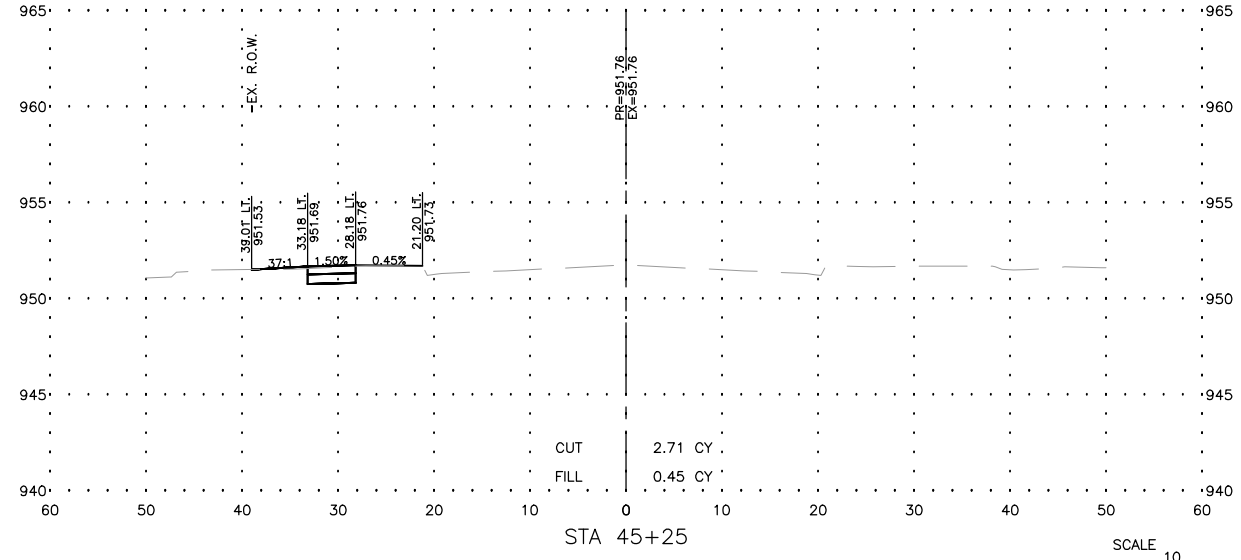
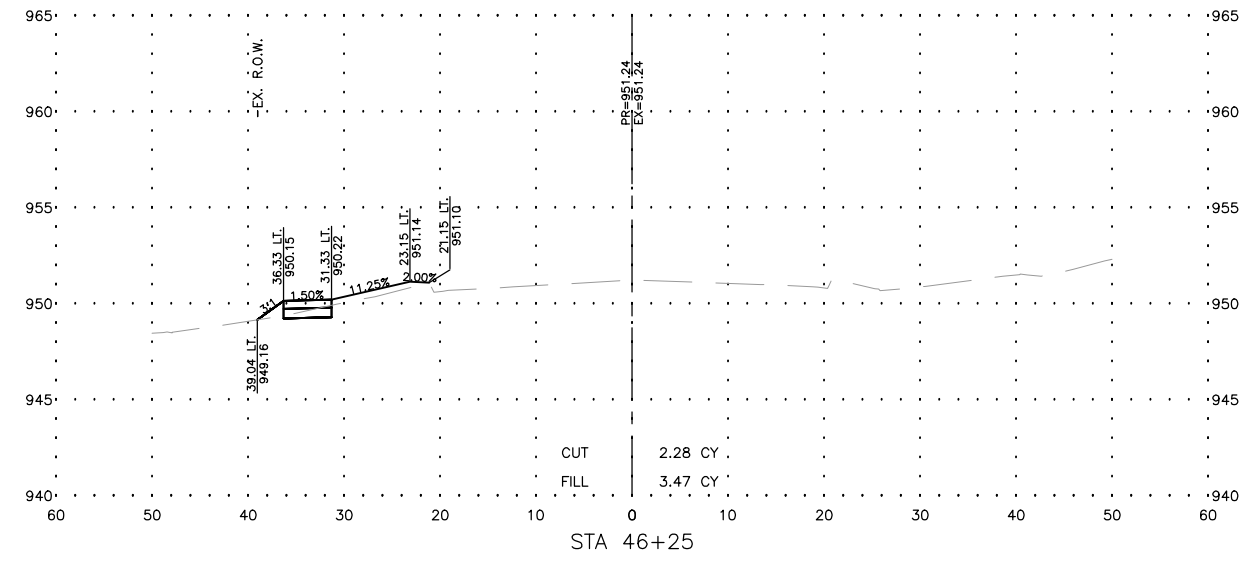
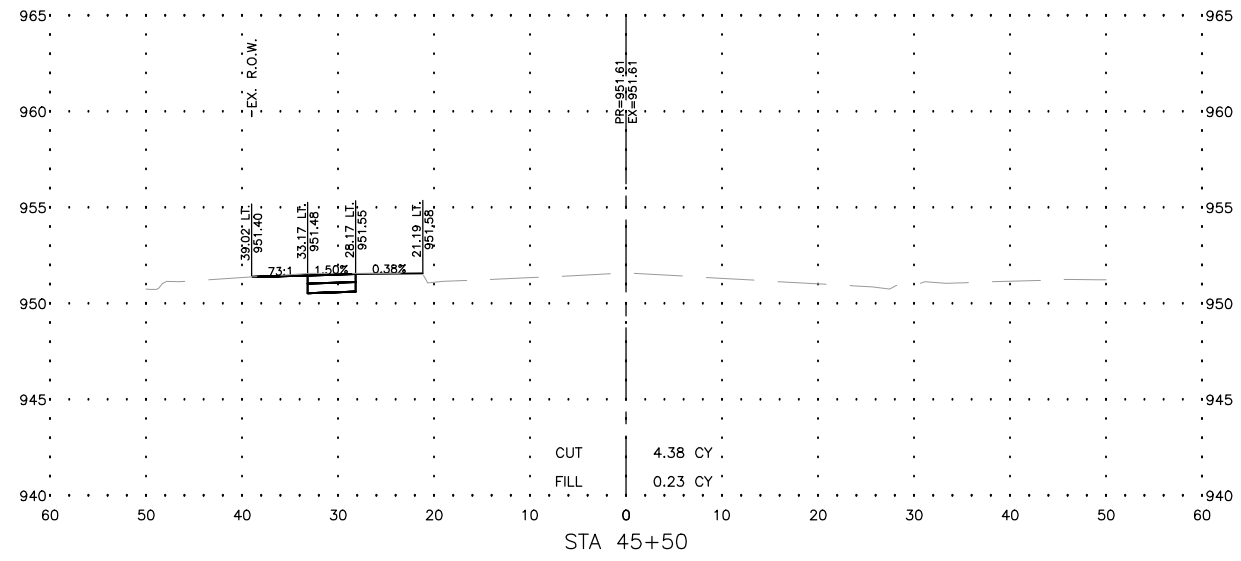
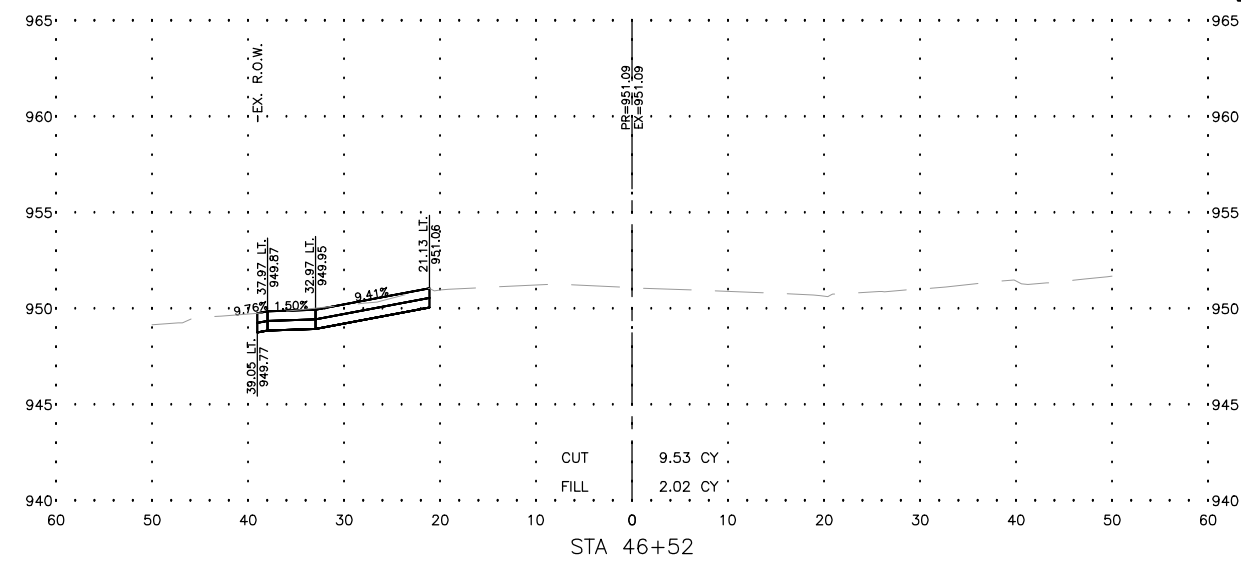
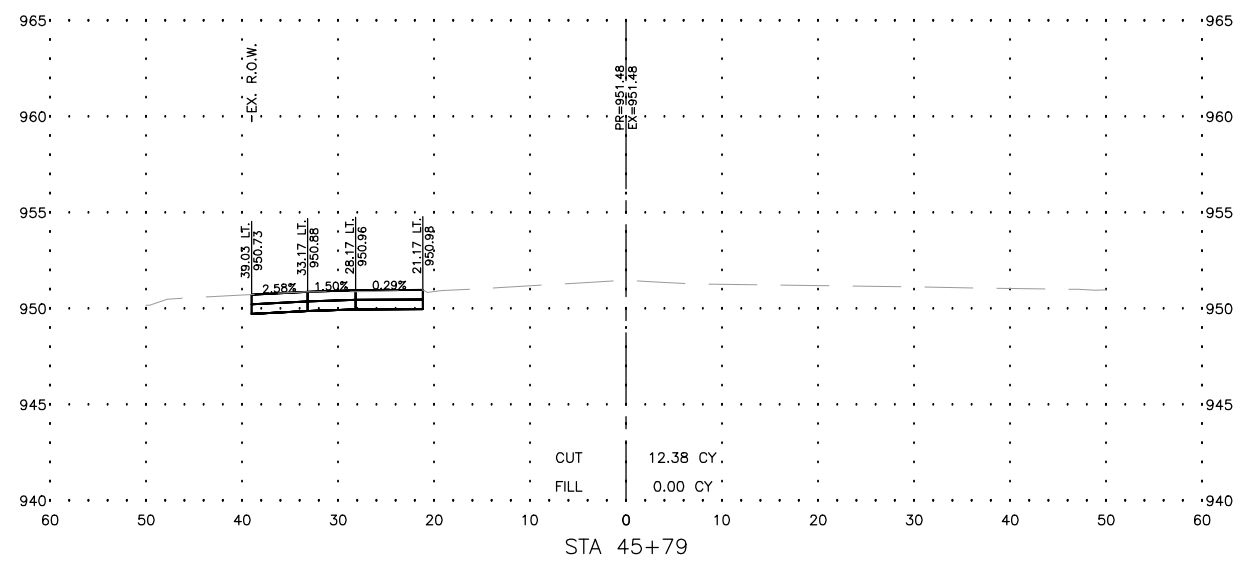
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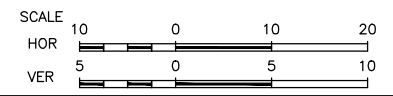
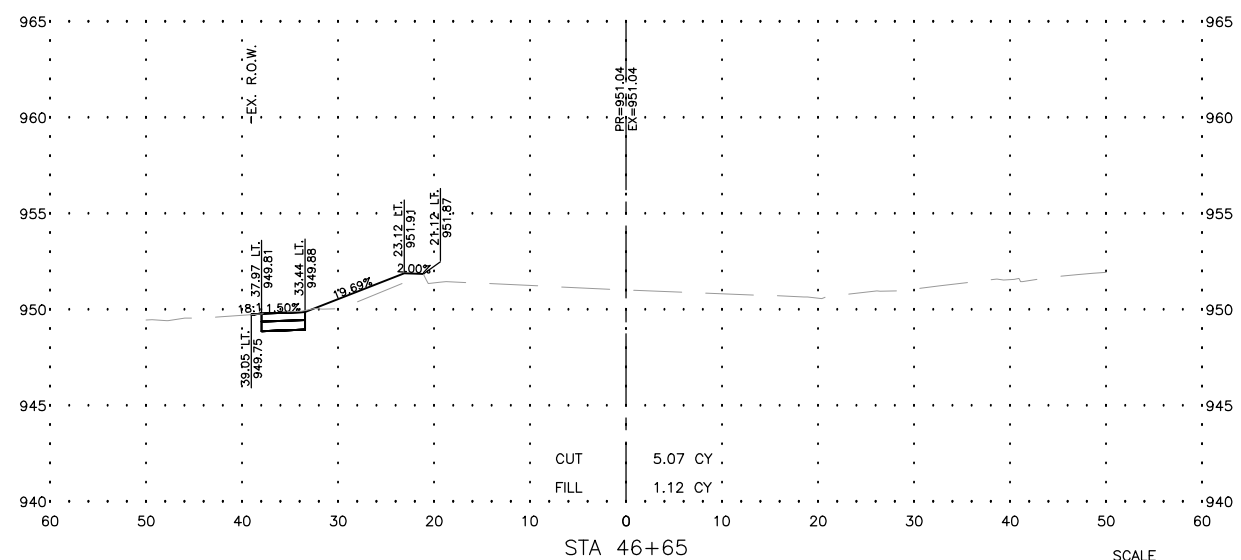
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| REVISIONS |             |      |
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| REV. NO.  | DESCRIPTION | DATE |
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| REVISIONS |             |      |
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| REV. NO.  | DESCRIPTION | DATE |
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**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
VILLAGE OF LENA  
122 EAST MAIN STREET  
LENA, IL 61048

PROJECT AND LOCATION:  
SIDEWALK IMPROVEMENTS  
LENA, IL

DRAWN BY: M.S.  
APPROVED BY: P.E.  
DATE: 3/13/18  
SCALE: AS NOTED

| REVISIONS |             |      |
|-----------|-------------|------|
| REV. NO.  | DESCRIPTION | DATE |
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



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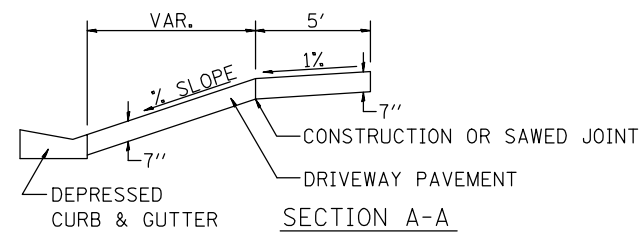
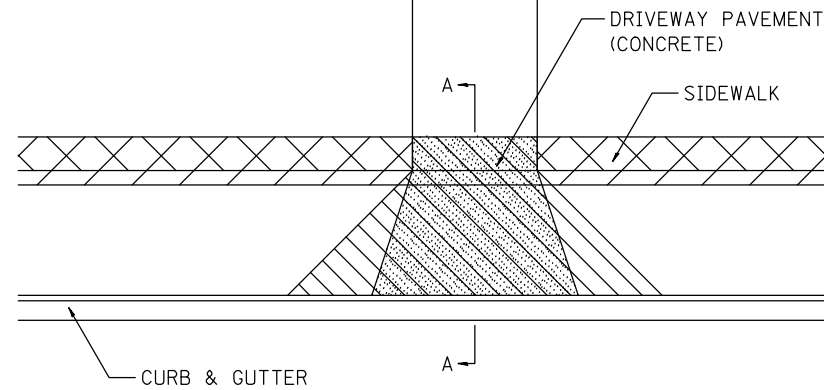
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JOB NUMBER:  
14-785

SHEET NUMBER:  
38 of 41

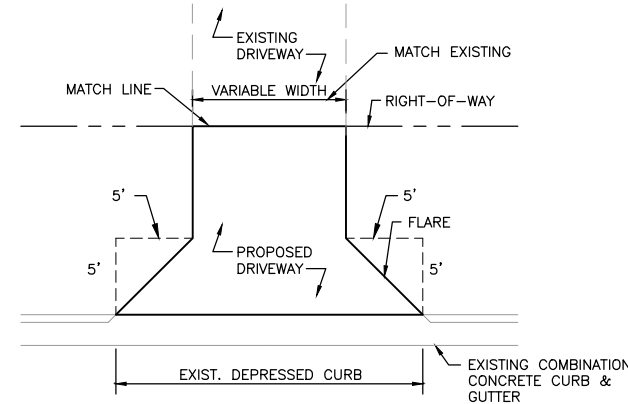
# SIDEWALK AND DRIVEWAY PAVEMENT PAY AREAS

- PAY FOR AS
-  SIDEWALK REMOVAL
  -  DRIVEWAY PAVEMENT REMOVAL
  -  PCC SIDEWALK 5
  -  PCC DRIVEWAY PAVEMENT 7

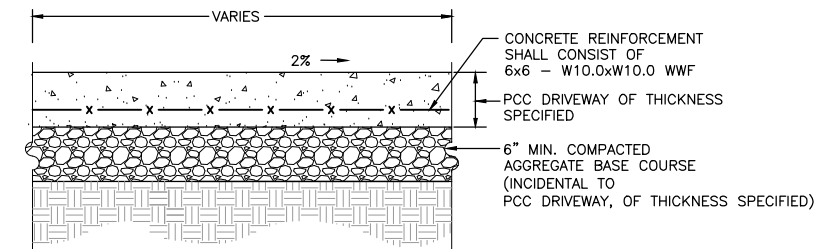


FOR DETAILS ON DIMENSIONS AND GRADES, SEE DISTRICT STANDARD 25.1 OR PLANS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.



**DRIVE APPROACH DETAIL**  
N.T.S.



CONTROL JOINTS SHALL BE PLACED EVERY 5'.  
CONCRETE SHALL MEET IDOT CLASS SI SPECIFICATION.

**PCC DRIVEWAY PAVEMENT DETAIL**  
N.T.S.

PLOT DATE = Thu Nov 13 11:31:55 2014

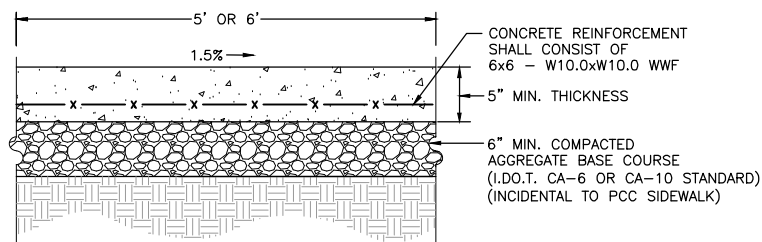
|                    |
|--------------------|
| REVISED - 6-27-14  |
| REVISED - 10-03-11 |
| REVISED -          |
| REVISED -          |

**REGION 2 / DISTRICT 2 STANDARD**

| F.A. RTE.                                     | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---------|--------|--------------|-----------|
|   |         |        |              |           |
| CONTRACT NO.                                  |         |        |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |         |        |              |           |

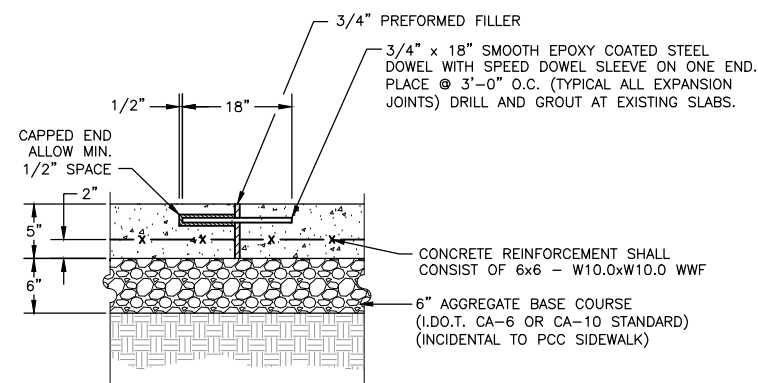
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|---------------|-----------|----|--------|------|----|------|
| SCALE: 1:8000 | SHEET NO. | OF | SHEETS | STA. | TO | STA. |
|---------------|-----------|----|--------|------|----|------|

## SIDEWALK AND DRIVEWAY PAVEMENT PAY AREAS 35.4

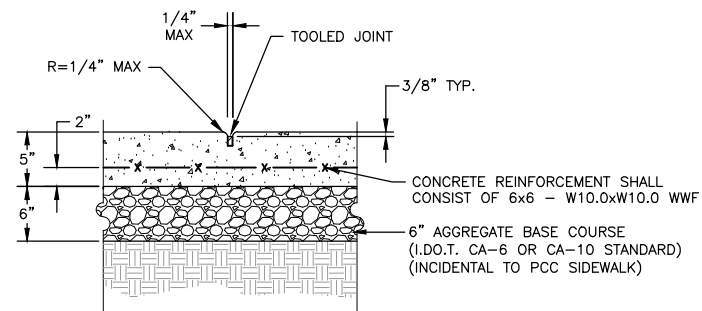


NOTE:  
CONTROL JOINTS SHALL BE PLACED EVERY 5'.  
CONCRETE SHALL MEET IDOT CLASS SI SPECIFICATION.  
ALL EXCAVATION NECESSARY FOR CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO THE PCC SIDEWALK, 5'.

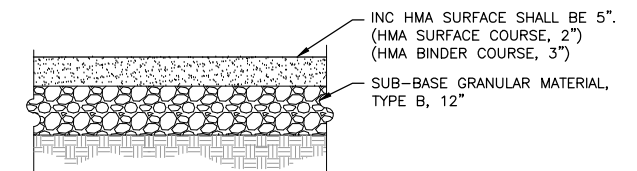
**PCC SIDEWALK DETAIL**  
N.T.S.



**SIDEWALK AND EXPANSION JOINT DETAIL**  
N.T.S.



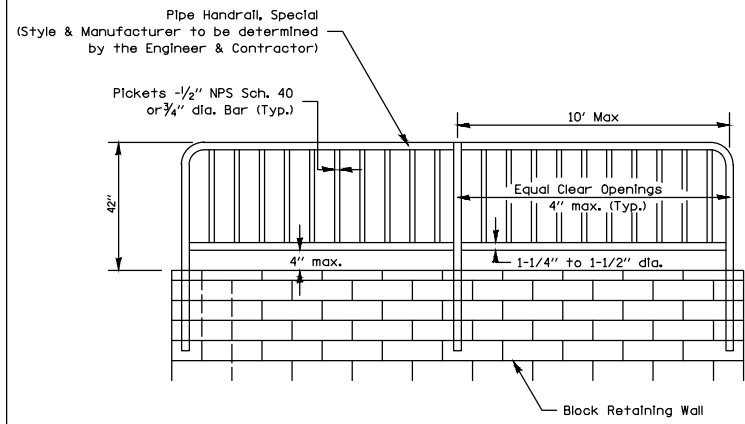
**SIDEWALK TOOLED JOINT DETAIL**  
N.T.S.



**HMA PAVEMENT REPLACEMENT SPECIAL DETAIL**  
N.T.S.

| REVISIONS |             |      |
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| REV. NO.  | DESCRIPTION | DATE |
|           |             |      |
|           |             |      |
|           |             |      |

# PIPE HANDRAIL, SPECIAL - FOR RETAINING WALLS



PIPE HANDRAIL, SPECIAL - FOR RETAINING WALL  
(See details for installation options)

**Notes:**

Gripping surfaces shall be uninterrupted by construction elements, or obstructions.

Ends of handrail shall be rounded.

Handrail shall not rotate within their fittings.

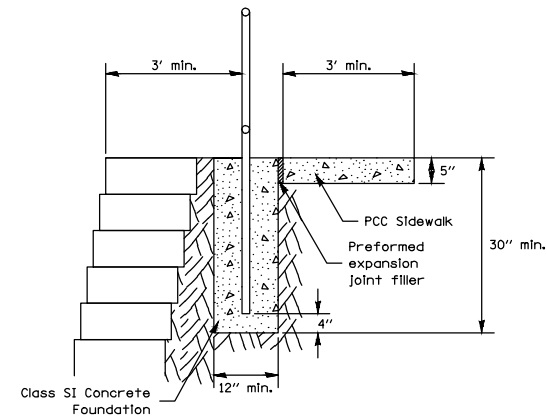
Handrail shall conform to Section 509 with the exception that all pipe and connections shall be welded galvanized or aluminum according to Article 1006.30, or 1006.34.

The diameter of the gripping surface of the handrail shall be 1-1/4" to 1-1/2"

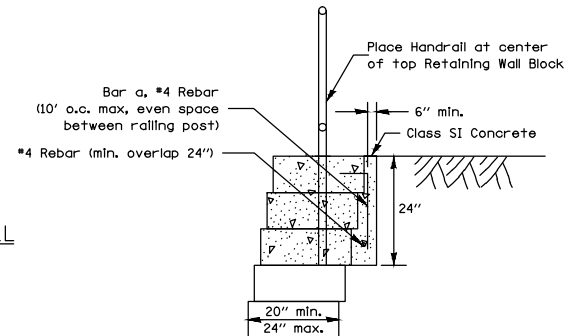
Handrail required when wall height difference is 4' or greater

Drilling of blocks will be necessary for reinforcement placement.

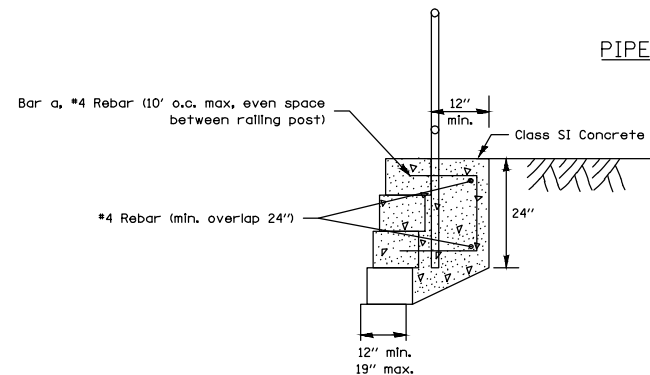
This work shall consist of furnishing and erecting Handrails as listed above and according to this detail. This work shall be paid for at the contract UNIT price per FOOT for PIPE HANDRAIL, SPECIAL.



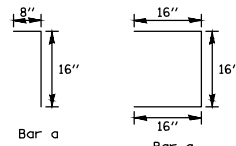
PIPE HANDRAIL, SPECIAL - FOR RETAINING WALL  
(Option 1)



PIPE HANDRAIL, SPECIAL - FOR RETAINING WALL  
(Option 2-Block depth greater than 20")



PIPE HANDRAIL, SPECIAL - FOR RETAINING WALL  
(Option 3 - Block depth 12" to 19")



PLOT DATE = 7/13/2016

|                    |                                |           |           |                     |                           |              |              |           |
|--------------------|--------------------------------|-----------|-----------|---------------------|---------------------------|--------------|--------------|-----------|
| REVISED - 1-05-16  | REGION 2 / DISTRICT 2 STANDARD |           |           | F.A. RTE.           | SECTION                   | COUNTY       | TOTAL SHEETS | SHEET NO. |
| REVISED - 12-03-14 | SCALE: 1:8000 1" = 80'         | SHEET NO. | OF SHEETS | STA.                | TO STA.                   | CONTRACT NO. |              |           |
| REVISED - 2-01-10  |                                |           |           | FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |              |              |           |

## PIPE HANDRAIL, SPECIAL - FOR RETAINING WALLS 64.2

**FEHR GRAHAM**  
ENGINEERING & ENVIRONMENTAL  
ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS  
IOWA  
WISCONSIN

OWNER/DEVELOPER:  
VILLAGE OF LENA  
122 EAST MAIN STREET  
LENA, IL 61048

PROJECT AND LOCATION:  
SIDEWALK IMPROVEMENTS  
LENA, IL

DRAWN BY: M.S.  
APPROVED BY: P.E.  
DATE: 3/13/18  
SCALE: AS NOTED

| REVISIONS |             |      |
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| REV. NO.  | DESCRIPTION | DATE |
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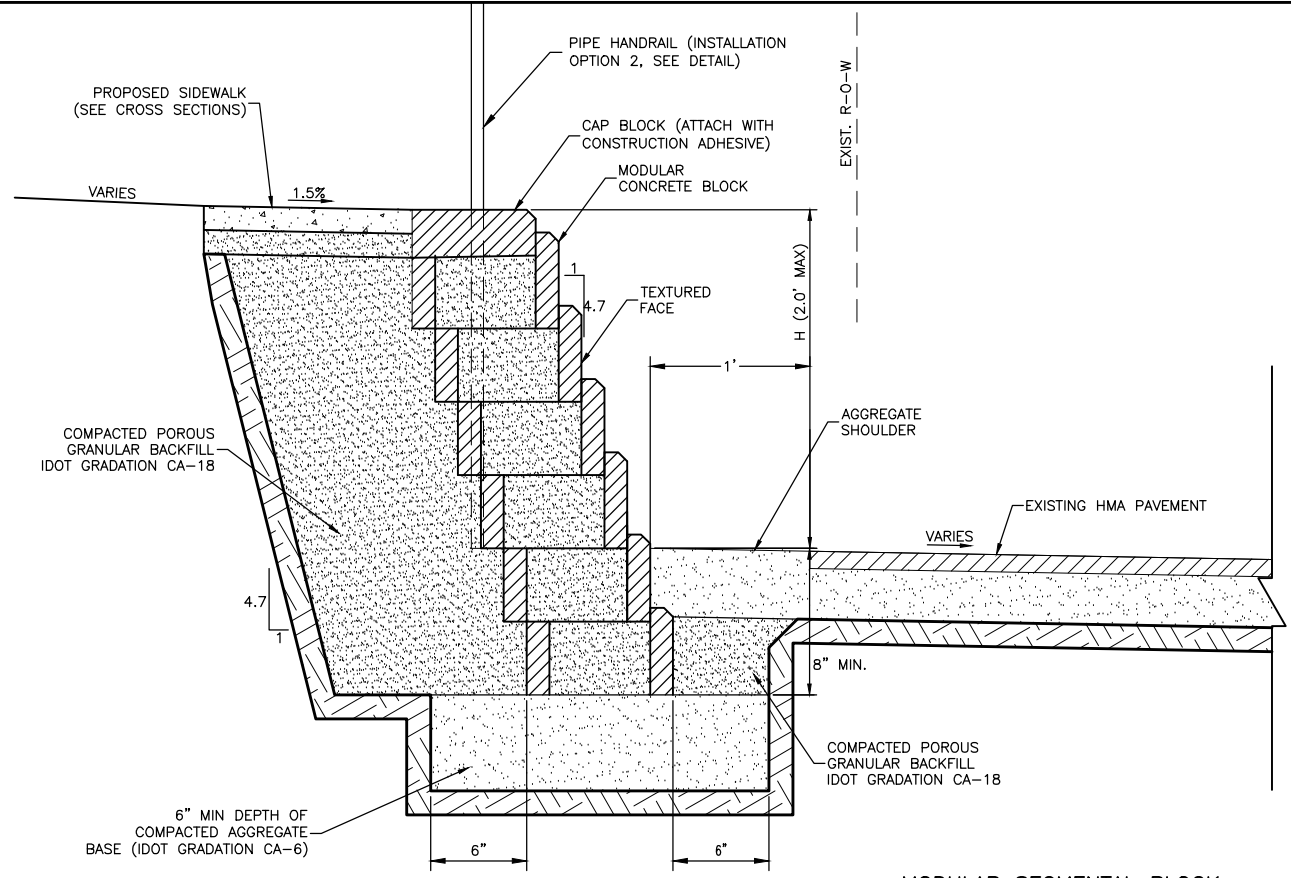
DRAWING:  
DETAILS

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JOB NUMBER:  
14-785

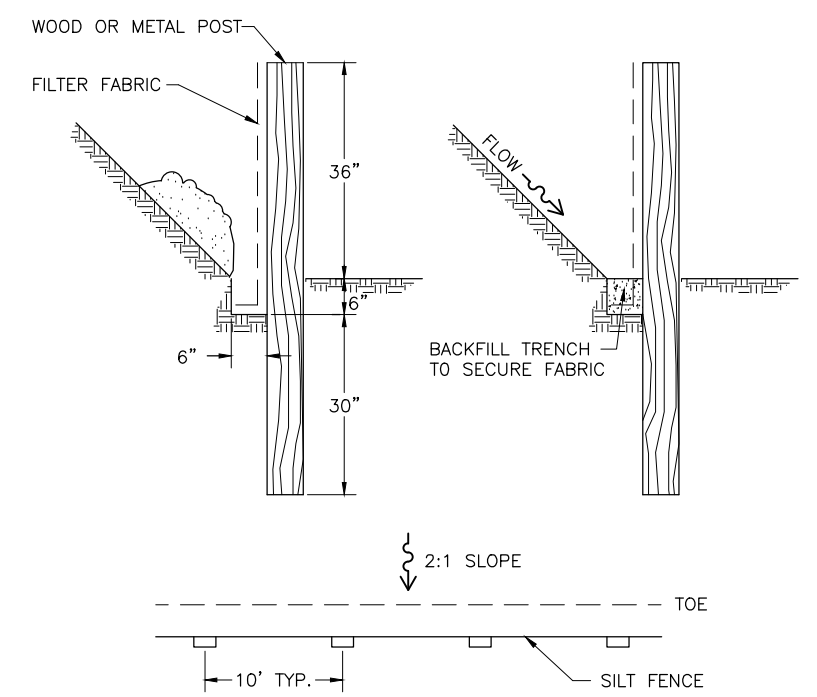
SHEET NUMBER:  
40 of 41



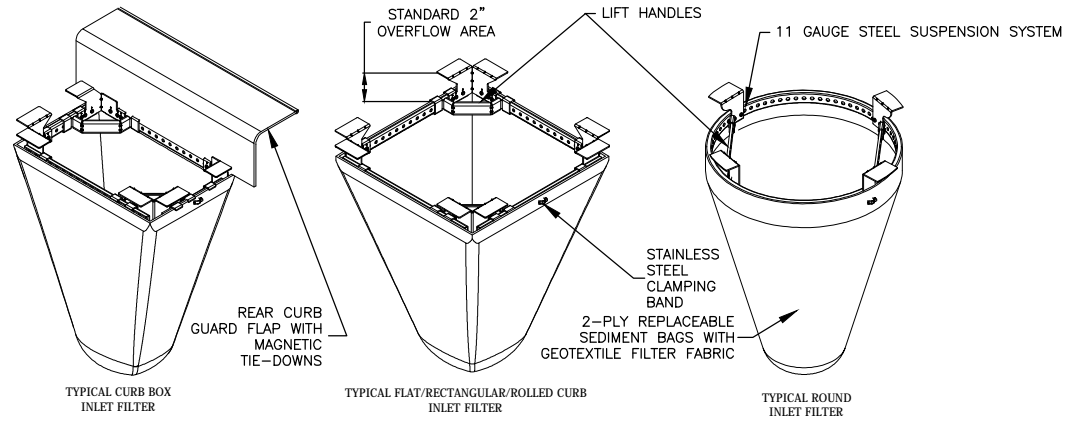


**MODULAR SEGMENTAL BLOCK RETAINING WALL DETAIL**  
N.T.S.

- NOTES:**
1. THE STATIONS, OFFSETS AND ELEVATIONS AS SHOWN IN THE DETAIL ARE BASED ON BLOCKS WITH THE FOLLOWING DIMENSIONS:  
STANDARD BLOCK:  
FRONT FACE WIDTH: 17-5/8"  
BACK FACE HEIGHT: 7-5/8"  
FRONT TO BACK DEPTH: 11-3/8"  
SET BACK: 1-5/8" PER BLOCK  
THE ACTUAL STATIONS, OFFSETS AND ELEVATIONS MAY VARY FROM THE DETAIL AT THE APPROVAL OF THE ENGINEER.
  2. EXCAVATION, BACKFILL, COMPACTED AGGREGATE BASE (DOT GRADATION CA-6), AND COMPACTED POROUS GRANULAR BACKFILL (DOT GRADATION CA-18) SHALL BE CONSIDERED INCLUDED IN THE COST PER SQUARE FOOT FOR MODULAR SEGMENTAL BLOCK RETAINING WALL.
  3. COLOR OF MODULAR CONCRETE BLOCK SHALL BE "NATURAL GRAY", AND APPROVED BY VILLAGE OF LENA PRIOR TO CONSTRUCTION.



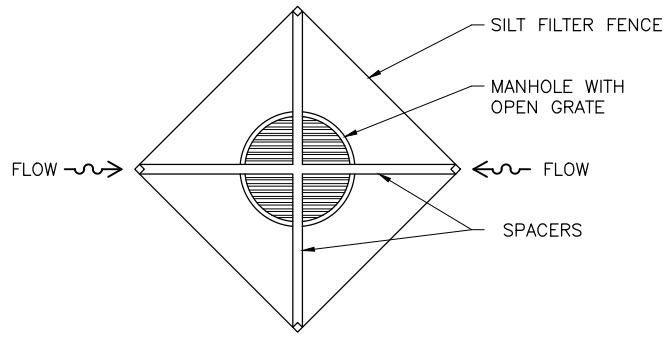
**PERIMETER EROSION BARRIER**  
N.T.S.



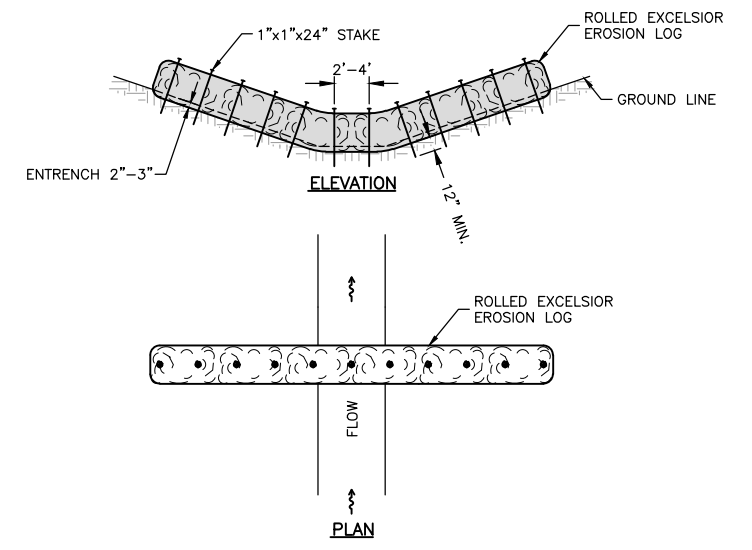
**IDOT Inlet Filter Specifications**

| Material Property  | Test Method | Value (min ave)  |
|--|-------------|--|
| <b>&gt; NonWoven Geotextile Inner Filter: Bag Specs (2 ft<sup>2</sup> min vol)</b> |             |  |
| Grab Tensile   | ASTM D 4632 | 100 lbs  |
| Puncture Strength  | ASTM D 4833 | 65 lbs   |
| Trapezoidal Tear   | ASTM D 4533 | 45 lbs   |
| UV Resistance  | ASTM D 4355 | 70% at 500 hrs   |
| App Open Size (AOS)  | ASTM D 4751 | 70 sieve (.212 mm)   |
| Permittivity   | ASTM D 4491 | 2.0/sec  |
| Water Flow Rate  | ASTM D 4491 | 145 gpm/sqft   |
| <b>&gt; Polyester Outer Reinforcement Bag Specifications</b>                       |             |  |
| Weight   | ASTM D 3776 | 4.55 oz/sqyd +/- 15%                                       |
| Thickness  | ASTM D 1777 | .040 +/- .005  |
| <b>&gt; Frame Construction</b>   |             |  |
| A36 Structural Steel; 11 Gauge; Zinc Plated  | ASTM A 576  | Tensile Strength > 58,000 psi; Yield Strength > 36,000 psi |

- INSTALLATION:**
1. REMOVE GRATE
  2. DROP INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE
  3. REPLACE GRATE



**INLET PROTECTION**  
N.T.S.



NOTE: TYPICAL INSTALLATION REQUIREMENTS ARE INDICATED. ACTUAL INSTALLATION SHALL CONFORM TO MANUFACTURER'S SPECIFICATIONS.

**TEMPORARY DITCH CHECK**  
N.T.S.

| REVISIONS |             |      |
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| REV. NO.  | DESCRIPTION | DATE |
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