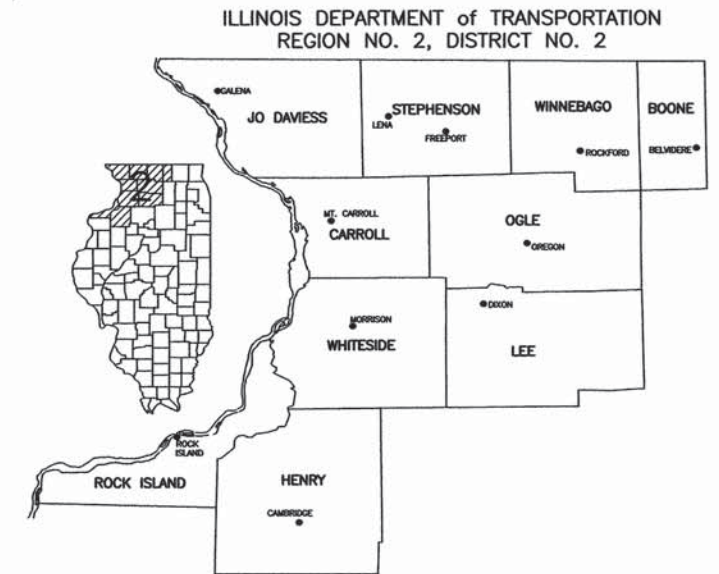


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SAFE ROUTES TO SCHOOL
FOR
VILLAGE OF LENA
LENA, IL

MS 6160 (FREMONT STREET)
SECTION: 09-00024-00-SW
STEPHENSON COUNTY
PROJECT NUMBER: SRTS-4009(053)
JOB NUMBER: C-40-044-09
CONTRACT NUMBER: 85522



3-2-16
SIGNATURE DATE

APPROVED _____ March 3, 2016
Janice Kegan
Village of Lena

PASSED _____ March 3, 2016
Anthony Baratta
DISTRICT ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW _____ March 3, 2016
Paul A. Laiter
Regional Engineer

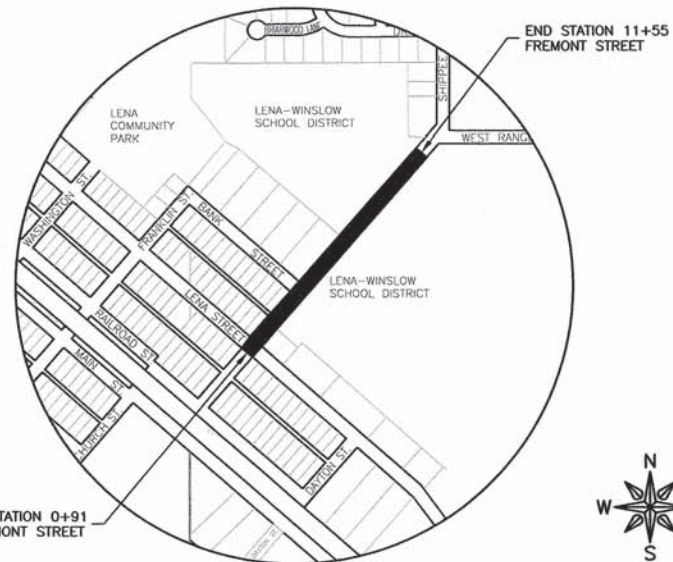
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STATE STANDARDS

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- 606001-06 CONCRETE TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600mm) FROM PAVEMENT EDGE
- 701011-04 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 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
- 701901-05 TRAFFIC CONTROL DEVICES
- 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



LOCATION MAP

PROJECT LENGTH = 1,064' (0.2 MILES)
FUNCTIONAL CLASS: LOCAL STREET
ADT: FREMONT STREET = 1,250 (0.5% TRUCKS)
LENA STREET = 3,950

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

ILLINOIS IOWA WISCONSIN

ILLINOIS PROFESSIONAL DESIGN FIRM NUMBER: 184003525

VILLAGE OF LENA	
DENNIS BERGMAN	PRESIDENT
LYNN POLHILL	CLERK
BERNARD HICKS	TREASURER
DARRYL CANON	TRUSTEE
CATHY STEVENS	TRUSTEE
RON BUCHENAU	TRUSTEE
HENRY SAAVEDRA	TRUSTEE
GARY SCHAIBLE	TRUSTEE
GREG BROGE	TRUSTEE



ORIGINAL SET FOR PROJECT: 14-830		DATE CREATED: 03/02/16
REVISIONS		
REV. NO.	DESCRIPTION	DATE

GENERAL NOTES

- 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.
- SPECIFICATIONS FOR THIS PROJECT ARE ILLINOIS DEPARTMENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION AND THE VILLAGE OF LENA STANDARD SPECIFICATIONS.
- 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.
- THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED OR DAMAGED 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.
- 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 STANDARD SPECIFICATIONS. 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), AS IT RELATES TO HIS OPERATIONS, REVISED AS OF JULY 1, 1987.
- 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 STANDARD SPECIFICATIONS, 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.
- 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 CALL THE ATTENTION OF THE ENGINEER TO 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.
- 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 SHALL INCLUDE ALL REQUIRED SOIL SAMPLING, LABORATORY ANALYSIS, DISPOSAL PROFILING FEES, TRANSPORTATION, AND DISPOSAL TIPPING FEES AND SURCHARGES.
- THE CONTRACTOR SHALL MAINTAIN ACCESS FOR EMERGENCY VEHICLES DURING THE CONSTRUCTION PERIOD.

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. THE OWNER'S ENGINEER WILL PROVIDE, UPON REQUEST, AN AUTOCAD FILE OF THE PLAN VIEW DRAWINGS TO THE SUCCESSFUL CONTRACTOR FOR USE IN CONSTRUCTION STAKING.
- THIS WORK SHALL BE IN ACCORDANCE WITH SECTION 201 OF THE STANDARD SPECIFICATIONS. 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.

TEMPORARY EROSION CONTROL

- TEMPORARY EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 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.
- THE EROSION CONTROL SYSTEM SHALL BE MAINTAINED THROUGHOUT THE COURSE OF THE PROJECT. AFTER EACH SIGNIFICANT RAINFALL EVENT, THE CONTRACTOR SHALL CHECK THE CONDITION OF THE EROSION CONTROL SYSTEM AND CORRECT ANY DEFICIENCIES. THIS SHALL INCLUDE BUT NOT BE LIMITED TO CORRECTING IMPROPER INSTALLATION AND REPAIRING OF THE EROSION CONTROL SYSTEM, REMOVAL OF TRAPPED SEDIMENT, AND CLEANING OF SILT FILTER FENCE AND ALL ROADWAY AND DRIVEWAY CULVERTS. THE COST OF MAINTAINING THE EROSION CONTROL SYSTEM SHALL BE INCLUDED IN THE COST OF THE PAY ITEM FOR EROSION CONTROL AND SHALL NOT BE PAID FOR SEPARATELY.
- AT THE COMPLETION OF THE PROJECT, ALL TEMPORARY EROSION CONTROL ITEMS SHALL BE REMOVED FROM THE SITE, AND BECOME THE PROPERTY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, EQUIPMENT AND ALL OTHER INCIDENTALS TO PROVIDE PROPER EROSION CONTROL AS INDICATED IN THIS PROVISION TO THIS CONTRACT. THIS WORK SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTION 280 OF THE STANDARD SPECIFICATIONS AND THE DETAILS INCLUDED IN THE PLAN AND ALL REQUIREMENTS SET FORTH IN THE GENERAL NPDES PERMIT NO. ILR10. ANY DISTURBED AREAS SHALL BE KEPT TO A PRACTICAL MINIMUM AND SHALL BE TEMPORARILY SEEDED, MULCHED, SODDERED OR PAVED WITHIN 7 CALENDAR DAYS; EXCEPT WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 7 DAYS FROM WHEN ACTIVITIES CEASED, THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE. AT ALL TIMES SILT FENCING OR SEDIMENT CONTROL DEVICES WILL BE IN PLACE DOWNSLOPE OF THE DISTURBED AREAS DURING THE LIFE OF THE CONTRACT.
- WHEN EXCESS TOPSOIL AND EXCAVATED MATERIAL IS REMOVED FROM THE SITE, THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS TO AVOID TRACKING OR SPILLING DIRT ONTO THE ADJACENT ROADWAYS. IF EXCAVATED MATERIAL IS SPILLED OUTSIDE OF THE JOB SITE, THE CONTRACTOR SHALL REMOVE THE DEBRIS AND CLEAN THE PAVEMENTS TO THE SATISFACTION OF THE OWNER, AND PROPERLY DISPOSE OF THE MATERIAL. AT NO ADDITIONAL COST TO THE OWNER.
- 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.
- 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 CONTRACTOR'S OPERATIONS PENDING ADEQUATE PERFORMANCE.

RESTORATION

- DISTURBED AREAS ARE LOCATIONS WHERE THE CONTRACTOR'S OPERATIONS HAVE DAMAGED EXISTING GROUND COVER AND/OR TOPSOIL OUTSIDE OF THE LIMITS OF THE TOPSOIL FURNISH AND PLACE.
- THE FINAL TOP 4 INCHES OF SOIL IN ANY DISTURBANCE AREA MUST BE A COHESIVE SOIL CAPABLE OF SUPPORTING VEGETATION.
- 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.

SUBGRADES, SUBBASES, AND BASE COURSES

- 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.
- THIS WORK SHALL CONFORM TO SECTION 351 OF THE STANDARD SPECIFICATIONS AND AS SHOWN ON THE PLANS OR AS DIRECTED BY THE OWNER. THE OVERALL MINIMUM THICKNESS SHALL BE PER PLAN AND SHALL CONSIST OF GRADATION SPECIFIED IN DETAIL.
HOT-MIX ASPHALT SURFACE COURSE MIX C_N50
HOT-MIX ASPHALT BINDER COURSE IL-9.5 EG_N50
- TOPSOIL OR OTHERWISE UNSUITABLE SOIL SHALL BE STRIPPED. STOCKPILE TOPSOIL IN AREA APPROVED BY OWNER AND REMOVE UNSUITABLE MATERIAL AND EXCESS SOIL FROM SITE. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A FINAL GRADE THAT IS SUITABLE FOR SEEDING AND LANDSCAPING (MINIMUM OF 4" OF TOPSOIL).
- THE UPPER 12 INCHES OF SUBGRADE BELOW PAVEMENTS, FLOORS, OR NEW FILLS SHALL BE BROUGHT TO WITHIN -2% TO +3% OF OPTIMUM MOISTURE AND COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DENSITY. IT MAY BE NECESSARY TO DISK AND AERATE THE EXISTING SOIL TO ACHIEVE OPTIMAL MOISTURE CONTENT.
- NO FILL OR BACKFILL SHALL CONSIST OF OR BE PLACED OVER FROZEN, MUDDY, OR OTHERWISE UNSTABLE MATERIAL.
- ALL FILL OR BACKFILL PLACED BENEATH EXTERIOR PAVED AREAS SHALL BE COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DENSITY.
- ALL FILL AND BACKFILL SHALL BE PLACED IN APPROXIMATE 9 INCH LIFTS LOOSE MEASURE FOR COHESIVE SOILS AND UP TO 12 INCHES FOR GRANULAR MATERIAL, EACH LIFT TO BE COMPACTED TO THE SPECIFIED DENSITY PRIOR TO THE PLACEMENT OF ADDITIONAL FILL.
- ANY OVER EXCAVATION OR UNDERCUTTING OF UNSUITABLE MATERIAL SHALL BE BACKFILLED WITH GRANULAR MATERIAL COMPACTED TO 95% OF MAXIMUM DENSITY.
- ALL DENSITY MEASUREMENTS REFERENCED ABOVE SHALL BE IN ACCORDANCE WITH ASTM DESIGNATION D1557 MODIFIED PROCTOR METHOD.

EXCAVATION/EARTHWORK

- 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.
- ALL ROADWAY REMOVAL ITEMS SHALL CONFORM TO SECTION 440 OF THE IDOT STANDARD SPECIFICATIONS. ALL JOINTS BETWEEN THE PORTION REMOVED AND THAT LEFT IN PLACE SHALL BE SAWS 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.
- PRIOR TO STARTING EARTHWORK OR UTILITY TRENCHING, THE CONTRACTOR SHALL STRIP THE RIGHT-OF-WAY OF TOPSOIL TO A DEPTH 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. THEN IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SPREAD THIS TOPSOIL MATERIAL IN AREAS OF THE RIGHT-OF-WAY, 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 4" AND FINE GRADED IN A MANNER ACCEPTABLE TO THE ENGINEER. THIS IS INCIDENTAL.
- IN THE CASE THAT CONTAMINATED SOIL IS ENCOUNTERED, CONTRACTOR SHALL STOCKPILE THE CONTAMINATED SOIL ONSITE. REMOVAL OF SAID SOIL WILL BE PERFORMED BY OTHERS.
- ALL EXCAVATIONS 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)
- EARTH EXCAVATION SHALL CONFORM TO SECTION 202 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL INCLUDE THE EXCAVATION OF ALL MATERIALS TO DESIGN SUBGRADE ELEVATIONS INDICATED IN THE PLANS.
- TOPSOIL PLACEMENT SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE STANDARD SPECIFICATIONS. PLACEMENT OF TOPSOIL SHALL BE AT A MINIMUM OF 4 INCHES THICK.

ROAD

- SAW CUTTING - THE CONTRACTOR SHALL SAW CUT ASPHALT PAVEMENT AND DRIVEWAY PAVEMENT, AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER, TO SEPARATE THE EXISTING PAVEMENT TO BE REMOVED BY MEANS OF AN APPROVED CONCRETE SAW TO A DEPTH AS DIRECTED BY THE ENGINEER. SUITABLE GUIDELINES OR DEVICES SHALL BE USED TO ASSURE CUTTING A NEAT, STRAIGHT LINE AS SHOWN ON THE PLANS. CARE SHALL BE TAKEN BY THE CONTRACTOR SO AS NOT TO DAMAGE THE REMAINING PAVEMENT DIRECTLY ADJACENT TO THE PAVEMENT TO BE REMOVED. ANY DAMAGE TO THE EXISTING PAVEMENT RESULTING FROM PAVEMENT REMOVAL OPERATIONS SHALL BE REPAIRED AT CONTRACTORS EXPENSE.

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:

SAFE ROUTES TO SCHOOL
LENA, IL

DRAWN BY: BKI
APPROVED BY: PDE
DATE: 03/02/16
SCALE: N/A

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:

GENERAL NOTES

JOB NUMBER:

14-830

SHEET NUMBER:

2 of 31

ABBREVIATIONS

<	ANGLE
ABC	AGGREGATE BASE COURSE
AC	ACRE(S)
ACI	AMERICAN CONCRETE INSTITUTE
AGR	AGGREGATE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ARCH	ARCHITECT
ASPH	ASPHALT
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
B	BALL VALVE
BFP	BACKFLOW PREVENTER
BIT	BITUMINOUS
BLDG	BUILDING
BLK	BLOCKING
BM	BENCHMARK
BOT	BOTTOM
BSMT	BASEMENT
BV	BUTTERFLY VALVE
B-B	BACK-TO-BACK OF CURB DIMENSION
CL or C	CENTERLINE
C TO C	CENTER TO CENTER
C & G	CURB AND GUTTER
CF	CUBIC FEET
CHD	CHORD LENGTH
CI	CAST IRON PIPE
CHK	CHECK VALVE
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CTY	COUNTY
CONC	CONCRETE
CONT	CONTINUOUS
C-B	CENTERLINE TO BACK OF CURB DIMENSION
COORD	COORDINATE
CU	COPPER PIPING
CTRS	CENTERS
CY	CUBIC YARDS
CS	CORPORATION STOP
D	DEGREE OF CURVE
DEP	DEPRESSED
DET	DETAIL
DIAG	DIAGONAL
DM	DIMENSION
DI	DUCTILE IRON PIPE
DN	DOWN
DNSTR	DOWNSTREAM
DP	DRAINAGE PIPE/STORM PIPE
DWG	DRAWING
E	EAST
EJ	EXPANSION JOINT
EL, ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
EW	EACH WAY
EXP	EXPANSION
EX, EXIST	EXISTING
EXT	EXTERIOR
E =	EXTERNAL DISTANCE
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIELD ENTRANCE
FF	FINISH FLOOR
FIL	FILLET
FIN	FINISH
FL	FLOW LINE
FLR	FLOOR
FM	FORCE MAIN
FND	FOUND
FRMG	FRAMING
FTG	FOOTING
F-F	FACE TO FACE
GA	GAUGE
GI	GALVANIZED IRON PIPE
GRD	GRADE
GRS	GRATING SUPPORT
GRT	GROUT
GV	GAS VALVE
GYP	GYP SUM
HSE	HOUSE
HC	HORIZONTAL CURVE
HMA	HOT MIX ASPHALT
HNGR	HANGER
HORIZ	HORIZONTAL
H.P.	HIGH POINT
HW	HOT WATER
HWH	HOT WATER HEATER
Δ =	CENTRAL ANGLE
I	MOMENT OF INERTIA
ID	INSIDE DIAMETER
INT	INTERIOR
INV	INVERT ELEVATION; BASED ON BENCH MARK DATUM
IP	IRON PIPE
JST	JOIST
L	LENGTH OF CURVE
LAT	LATERAL
LAV	LAVATORY
L.F.	LINEAL FEET
L.P.	LOW POINT
LT	LEFT OF SURVEY BASE LINE
MAX	MAXIMUM
ME	MATCH EXISTING
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
MTL	METAL
N	NORTH
No. or #	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OO	OUTSIDE TO OUTSIDE
OPNG	OPENING
OPP	OPPOSITE
PC	POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE
PCF	POUNDS PER CUBIC FOOT
PDP	PERFORATED DRAIN PIPE

PE	POLYETHYLENE PIPE
PI	POINT OF INTERSECTION
PL	PLATE
PLG	PLUG VALVE
PLP	POLYPROPYLENE PIPE
PLYWD	PLYWOOD
PM	PRINCIPAL MERIDIAN
PR	PRESSURE REGULATORS
PRC	POINT OF REVERSE CURVATURE
PRESS	PRESSURE
PR, PROP	PROPOSED
PSF	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PIPE SLEEVE
PT	POINT OF TANGENCY
PLG	PLUG VALVE
PVC	POLYVINYL CHLORIDE (PLASTIC) PIPE
R	RADIUS
RDCR	REDUCER
RCCP	REINFORCED CONCRETE CYLINDER PIPE
RCP	REINFORCED CONCRETE PIPE
ROF	ROOF DRAIN
REINF	REINFORCING
REQD	REQUIRED
ROW	RIGHT OF WAY
RFTD	RAFTER
RND	ROUND
RR	RAILROAD
RRSP	RAILROAD SPIKE
RT	RIGHT
R&R	REMOVE AND REPLACE
S	SOUTH
SB	STREAM BED
SCHED	SCHEDULE
SEC	SECTION
SF	SQUARE FEET
SHR	SHOWER
SHT	SHEET
SHTG	SHEATHING
SP	SANITARY PIPE
SPA	SPACING OR SPACES
SPEC	SPECIFICATION
SQ	SQUARE
SS	SANITARY SERVICE
STA	STATION
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SW	SIDWALK
SY	SQUARE YARDS
SYM	SYMMETRICAL
T	TANGENT LENGTH
TBC	TOP BACK OF CURB
TBM	TEMPORARY BENCH MARK; BASED ON BENCHMARK DATUM
TD	TILE DRAIN
THK	THICK
TR	TREAD
TY	TYPICAL
UP	UTILITY POLE
UPSTR	UPSTREAM
UR	URINAL
USGS	US GEOLOGICAL SURVEY
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VOL	VOLUME
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPRC	VERTICAL POINT OF REVERSE CURVATURE
VPT	VERTICAL POINT OF TANGENCY
W	WEST
WC	WATER CLOSET
WF	WIDE FLANGE
WM	WATER MAIN
WMQ	WATER MAIN QUALITY
WV	WATER VALVE
WGT	WEIGHT
WP	WEATHER PROOF
WS	WATER SERVICE
WWF	WELDED WIRE FABRIC
W	WITH
W/O	WITHOUT
XP	EXPLOSION PROOF

HATCH PATTERNS

	EARTH - FILL		BRICK
	EARTH - UNDISTURBED		STEEL
	ROCK (GEOLOGICAL)		INSULATION (LOOSE/ BATT)
	STONE OR RIP RAP		INSULATION (RIGID)
	GRAVEL		WOOD (ROUGH)
	CONCRETE		WOOD (BLOCKING)
	CONCRETE BLOCK		WOOD (FINISH)
	CMU		DETECTABLE WARNING
	ASPHALT PAVEMENT		

SYMBOLS

EXISTING	CIVIL	PROPOSED
	EXISTING R.O.W.	
	RIGHT-OF-WAY LINE	
	PROPERTY LINE	
	CENTERLINE	
	SETBACK LINE	
	EASEMENT LINE	
	SECTION LINE	
	SECTION CORNER	
	COORDINATE POINT ON GRID SYSTEM	
	FOUND OR SET PROPERTY PIN	
	RIGHT-OF-WAY MARKER	
	BENCHMARK	
	CONTOUR LINE	
	SPOT ELEVATION (AT)	
	FENCE LINE	
	SILTY FENCE LINE	
	CURB AND GUTTER	
	TIP OUT CURB AND GUTTER	
	SAWCUT, LIMITS OF PAVEMENT REMOVAL & REPLACEMENT	
	DECIDUOUS TREE W/ SIZE	
	CONIFEROUS TREE W/ SIZE	
	TREE STUMP	
	HEDGEROW	
	BUSH OR SHRUB	
	TREE LINE	
	CONSTRUCTION LIMIT LINE	
	SIGN (MULTIPLE POST, SINGLE POST)	
	SIGN (PYLON)	
	GUARD RAIL	
	RAILROAD TRACKS	
	BUILDING	
	MAILBOX	
	FLAGPOLE	
	SOIL BORING LOCATION AND NUMBER	
	MONITORING WELL	
	REVISION NUMBER	
	OUTLINE OF DETAILED AREA	
	SECTION NUMBER SHEET WHERE SHOWN	
	SANITARY SEWER	
	SANITARY SEWER SERVICE	
	SANITARY SEWER FORCE MAIN	
	SANITARY CLEANOUT	
	SANITARY MANHOLE	
	WYE FITTING	

EXISTING	WATER	PROPOSED
	WATER SERVICE	
	WATER PIPE	
	FIRE HYDRANT	
	YARD HYDRANT	
	WATER VALVE WITH BOX	
	CURB STOP W/CURB BOX	
	REDUCER	
	WATER VALVE VAULT	
	11.25' BEND	
	22.50' BEND	
	45' BEND	
	90' BEND	
	TEE	
	CAP	
	WATER METER	
	SPRINKLER HEAD	
	STORM SEWER	
	DRAIN TILE	
	DITCH LINE (PAVED)	
	DITCH LINE (UNPAVED)	
	STORM MANHOLE	
	CATCH BASIN	
	STORM SEWER INLET	
	STORM SEWER INLET - BEHIND CURB	
	DOWNSPOUT	
	CULVERT AND SIZE	
	RCP OR RCP EQRS (RCAP) END SECTION	
	METAL OR HDPE END SECTION	
	FLOW DIRECTION	
	EROSION CONTROL BLANKET	
	TEMPORARY AND PERMANENT SEEDING AREA	
	UNDISTURBED AREA	
	STABILIZED CONSTRUCTION ENTRANCE	
	SILT FENCE	
	INLET PROTECTION	
	TEMPORARY SEDIMENT TRAP	
	ROCK OUTLET PROTECTION	
	ROCK CHECK DAM - COURSE AGGREGATE	
	ROCK CHECK DAM - RIP RAP	
	DITCH CHECK	

EXISTING	UTILITY	PROPOSED
	FIBER OPTIC LINE	
	UNDERGROUND TV CABLE	
	CABLE TV RISER PEDESTAL	
	OVERHEAD UTILITY	
	UNDERGROUND ELECTRIC	
	ELECTRIC RISER PEDESTAL	
	ELECTRIC MANHOLE	
	UNDERGROUND TELEPHONE	
	TELEPHONE RISER PEDESTAL	
	UTILITY POLE	
	UTILITY POLE W/ METER	
	UTILITY POLE W/ TRANSFORMER	
	UTILITY POLE W/ LIGHT	
	UTILITY POLE WITH GUY WIRE AND ANCHOR	
	LIGHT (MAST MOUNTED)	
	LIGHT POLE (SINGLE FIXTURE)	
	YARD LIGHT	
	GAS MAIN	
	GAS METER	
	GAS VALVE	
	CONTROLLER	
	MAST ARM ASSEMBLY AND POLE	
	SIGNAL HEAD AND POST	
	SIGNAL HEAD	
	PEDESTRIAN HEAD	
	PEDESTRIAN PUSH-BUTTON	
	HAND HOLE	
	DOUBLE HAND HOLE	
	HAND HOLE OR JUNCTION BOX	
	HEAVY-DUTY HAND HOLE	
	EXISTING CONDUIT (LENGTH AND SIZE)	
	PROP GALVANIZED STEEL OR PVC CONDUIT	
	UPPER MATERIAL INDICATES LENGTH	
	T INDICATES CONDUIT IN TRENCH	
	P INDICATED CONDUIT PUSHED	
	LOWER NUMERAL INDICATES SIZE AND TYPE	
	LUMINAIRE	
	ARROW - THROUGH, TURN LEFT	
	ARROW - THROUGH	
	ARROW - TURN LEFT	
	ARROW - TURN RIGHT	
	ONE DIRECTION TURN ONLY	
	HANDICAPPED PARKING STALL	
	TRAFFIC DETECTOR LOOP	
	TRAFFIC CONTROL BOX	

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:
SAFE ROUTES TO SCHOOL
LENA, IL

DRAWN BY: BKJ
APPROVED BY: PDE
DATE: 03/02/16
SCALE: HOR
VERT

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
STANDARD LEGEND

JOB NUMBER:
14-830
SHEET NUMBER:
3 of 31

SUMMARY OF QUANTITIES				
CONSTRUCTION TYPE CODE: 0021				
S.P.	PAY ITEMS	ITEMS	UNIT	TOTAL
	20101400	NITROGEN FERTILIZER	LBS	54
	20101500	PHOSPHORUS FERTILIZER	LBS	54
	20101600	POTASSIUM FERTILIZER	LBS	54
	25200100	SODDING	SY	2,904
	25200200	SUPPLEMENTAL WATERING	UNITS	35
	42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT 6-INCH	SY	1.31
	42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT 7-INCH	SY	300
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5-INCH	SF	10,103
	42400800	DETECTABLE WARNINGS	SF	230
	44000200	DRIVEWAY PAVEMENT REMOVAL	SY	494
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FT	1,098
	44000600	SIDEWALK REMOVAL	SF	8,751
*	56108100	ADJUSTING WATER VALVES 4"	EA	1
*	56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EA	1
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FT	232
	60609800	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.18	FT	831
	67100100	MOBILIZATION	LS	1
Δ	78005110	EPOXY PAVEMENT MARKING - LINE 4"	FT	72
Δ	78005130	EPOXY PAVEMENT MARKING - LINE 6"	FT	665
	78300100	PAVEMENT MARKING REMOVAL	SF	109
*	X0326458	PAVEMENT REPLACEMENT SPECIAL	SY	337
*	X0326806	WASHOUT BASIN	LS	1
*	X2020410	EARTH EXCAVATION SPECIAL	CY	988
*	X2800500	INLET PROTECTION SPECIAL	EA	7
	X6026108	INLETS TO BE RECONSTRUCTED W/NEW FRAME AND GRATE <i>502</i>	EA	7
*	X7010216	TRAFFIC CONTROL AND PROTECTION SPECIAL	LS	1

Δ SPECIALTY ITEMS

BENCHMARK DATA

BM #1 = CAPPED REBAR N 2080653.98, E 2396150.53, ELEV 952.23
BM #2 = CAPPED REBAR N 2080374.01, E 2391440.13, ELEV 952.55
BM #3 = CAPPED REBAR N 2080159.66, E 2391356.29, ELEV 950.81
BM #4 = CAPPED REBAR N 2080039.30, E 2391224.83, ELEV 950.07
BM #5 = CAPPED REBAR N 2079753.22, E 2390899.05, ELEV 953.11

UTILITIES

UTILITY TYPE	COMMON NAME	ADDRESS	CONTACT/TELEPHONE NUMBER
WATER & SEWER	VILLAGE OF LENA	122 E. MAIN ST., LENA, IL 61048	815-369-4016
ELECTRIC	COMED CO.	123 ENERGY AVE., ROCKFORD, IL	800-334-7661
TELEPHONE	FRONTIER	112 W. ELM ST., SYCAMORE, IL 60178	815-895-1532
GAS	NICOR GAS CO.	4651 LINDEN RD., ROCKFORD, IL	CONNIE LANE/630-388-3830
CABLE	MEDIACOM	112 N. 2nd ST., CLINTON, IA 52732	GREG BUBENYAK/563-243-2254
COMMUNICATIONS	IFIBER	P.O. BOX 755, SYCAMORE, IL 60178	815-753-8113

44000500 COMBINATION CURB & GUTTER REMOVAL	
STATION	FT
0+92 - 1+31 RT	63
1+07 - 1+31 LT	49
1+69 - 2+02 LT	56
1+69 - 2+11 RT	64
3+19 - 3+79 (LT)	106
3+32 - 3+56 (RT)	20
3+92 - 4+52 (RT)	95
5+04 - 5+25 (LT)	28
5+58 - 5+94 (LT)	45
5+02 - 6+01 (RT)	130
6+27 - 6+52 (LT)	26
7+26 - 7+54 (LT)	29
7+72 - 7+84 (LT)	12
7+66 - 7+90 (RT)	24
8+66 - 9+42 (LT)	84
8+79 - 11+45 (RT)	267
TOTAL	1098

42400200 PORTLAND CEMENT CONCRETE SIDEWALK 5-INCH		
STATION TO STATION	WIDTH	SQ. FT.
SOUTH RAD LENA ST.	5'	66
WEST RAD LENA ST	5'	70
1+78 - 3+35 (LT)	5'	775
3+54 - 3+63 (LT)	5'	50
3+73 - 5+22 (LT)	5'	789
5+58 - 6+32 (LT)	5'	385
6+47 - 7+30 (LT)	5'	418
7+49 - 8+73 (LT)	5'	790
8+83 - 9+25 (LT)	5'	226
9+25 - 9+40 (LT)	6'	92
10+29 - 10+67 (LT)	6'	225
10+88 - 10+99 (LT)	10'	143
1+78 - 4+10 (RT)	5'	1170
4+35 - 5+57 (RT)	5'	650
5+81 - 6+49 (RT)	5'	534
6+49 - 11+34 (RT)	7'	3720
TOTAL		10103

42400800 DETECTABLE WARNINGS	
STATION	SQ. FT.
1+20 (LT)	18
1+20 (RT)	20
1+83 (LT)	10
1+84 (RT)	10
3+34 (LT)	10
3+55 (LT)	10
5+08 (LT)	10
5+08 (RT)	10
5+21 (LT)	10
5+59 (LT)	10
7+80 (LT)	24
7+80 (RT)	24
9+40 (LT)	12
10+28 (LT)	12
10+94 (LT)	20
10+94 (RT)	20
TOTAL	230

60609800 COMBINATION CURB & GUTTER, TYPE M-6.18	
STATION	FT
3+19 - 3+79 (LT)	106
3+32 - 3+56 (RT)	20
3+92 - 4+52 (RT)	60
5+04 - 5+25 (LT)	28
5+58 - 5+94 (LT)	45
5+02 - 6+01 (RT)	130
6+27 - 6+52 (LT)	26
7+26 - 7+54 (LT)	29
7+75 - 7+86 (LT)	11
7+68 - 7+92 (RT)	25
8+66 - 9+42 (LT)	84
8+79 - 11+45 (RT)	267
TOTAL	831

X0326458 PAVEMENT REPLACEMENT SPECIAL	
STATION	SQ. YD.
0+92 - 1+31 (RT)	15
1+07 - 1+31 (LT)	12
1+69 - 2+02 (LT)	14
1+69 - 2+11 (RT)	15
3+19 - 3+79 (LT)	14
3+35 - 3+50 (LT)	45
3+33 - 3+56 (LT)	6
3+92 - 4+52 (RT)	14
5+04 - 5+95 (LT)	59
5+02 - 6+00 (RT)	23
6+27 - 6+52 (LT)	6
7+26 - 7+54 LT	7
7+72 - 7+84 LT	3
7+66 - 7+90 (RT)	6
8+66 - 9+31 (LT)	16
10+42 - 10+67 (LT)	12
8+79 - 11+45 (RT)	63
10+88 - 10+98 (LT)	7
TOTAL	337

42300200 PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT 6-INCH		
STATION TO STATION	HOUSE #	SQ. YD.
3+61 - 3+79 (LT)		19
6+27 - 6+52 (LT)		39
7+26 - 7+54 (LT)		45
8+68 - 8+88 (LT)		28
TOTAL		131

X6026108 INLETS TO BE RECONSTRUCTED W/NEW FRAME AND GRATE	
STATION	EACH
3+44 (LT)	1
3+44 (RT)	1
5+77 (LT)	1
5+77 (RT)	1
9+17 (LT)	1
9+84 (RT)	1
11+18 (RT)	1
TOTAL	7

44000500 COMBINATION CURB & GUTTER, B-6.24	
STATION	FT
0+92 - 1+31 RT	63
1+07 - 1+31 LT	49
1+69 - 2+02 LT	56
1+69 - 2+11 RT	64
TOTAL	232

78005130 EPOXY PAVEMENT MARKING - LINE 6"	
STATION	FT
1+15 - 1+82 (LT/RT)	321
5+04 - 5+12 (LT/RT)	140
7+77 - 7+84 (LT/RT)	102
10+90 - 10+98 (LT/RT)	102
TOTAL	665

56108100 ADJUSTING WATER VALVES 4"	
STATION	EACH
10+80 (RT)	1
TOTAL	1

42300300 PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT 7-INCH		
STATION TO STATION	HOUSE #	SQ. YD.
9+29 - 10+42 (LT)		211
4+03 - 4+44 (RT)		44
5+49 - 5+90 (RT)		45
TOTAL		300

44000600 SIDEWALK REMOVAL	
STATION	SQ. FT.
SOUTH RAD LENA ST	63
WEST RAD LENA ST	62
1+78 - 3+35 (LT)	625
3+54 - 3+64 (LT)	37
3+74 - 5+22 (LT)	638
5+58 - 8+73 (LT)	1392
8+82 - 9+42 (LT)	288
10+29 - 10+67 (LT)	225
1+78 - 4+10 (RT)	947
4+35 - 5+57 (RT)	514
5+81 - 11+33 (RT)	3960
TOTAL	8751

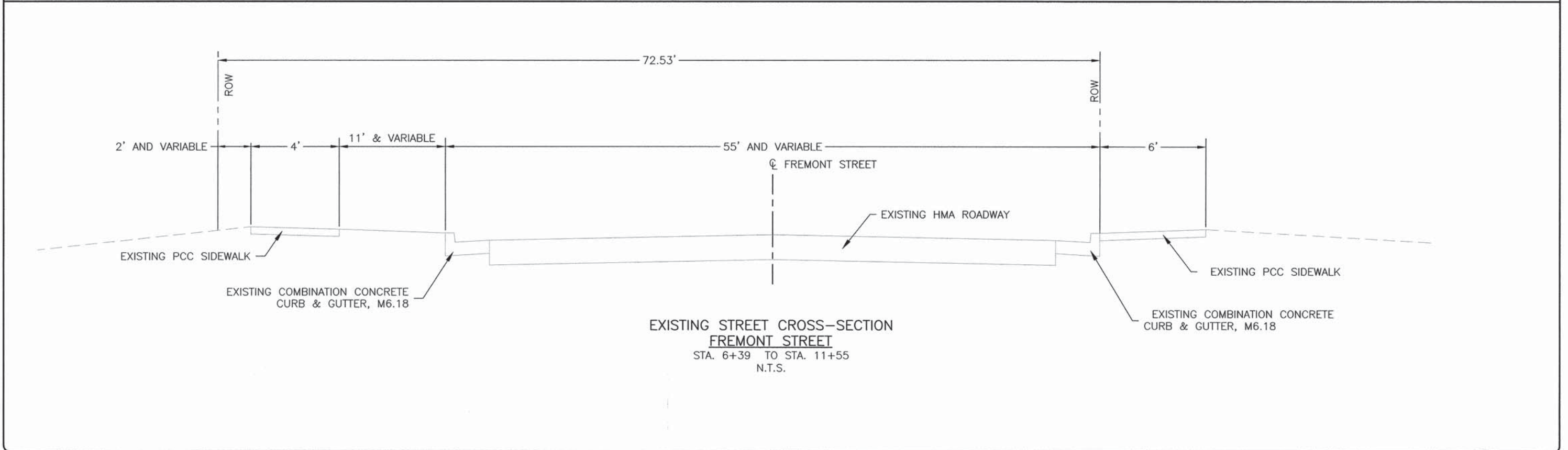
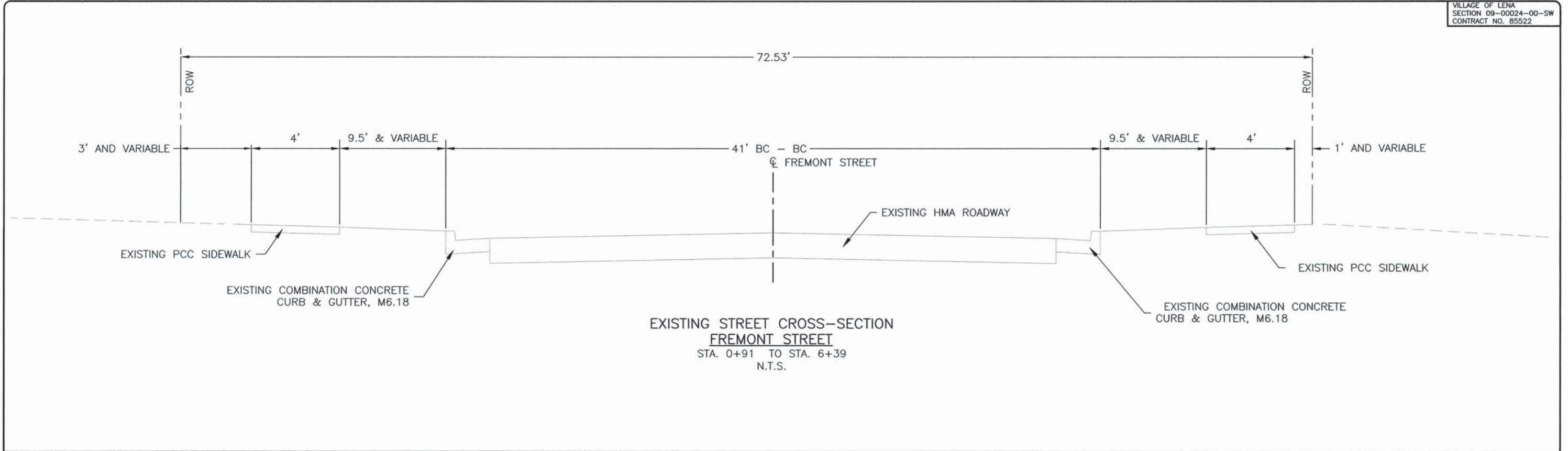
78005110 EPOXY PAVEMENT MARKING - LINE 4" (PARKING STALLS)	
STATION	FT
10+00 - 10+41 RT	72
TOTAL	72

56500600 DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	
STATION	EACH
2+26 (RT)	1
TOTAL	1

44000200 DRIVEWAY PAVEMENT REMOVAL		
STATION TO STATION	HOUSE #	SQ. YD.
3+69 (LT)		18
4+22 (RT)		56
5+69 (RT)		69
6+39 (LT)		29
7+38 (LT)		34
9+91 (LT)		262
8+77 (LT)		26
TOTAL		494

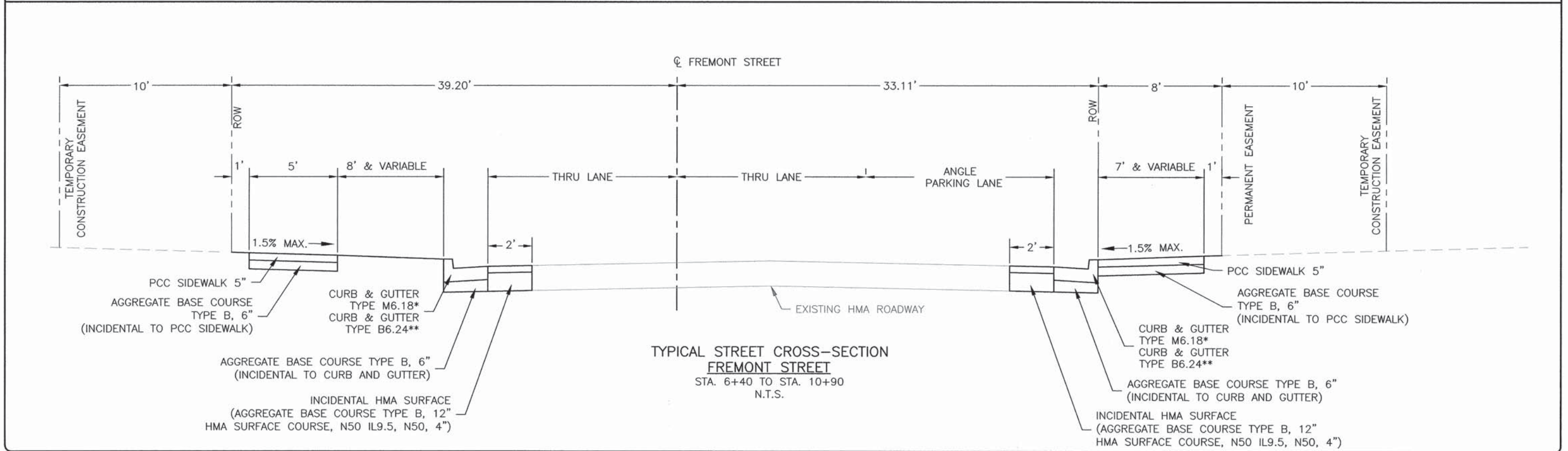
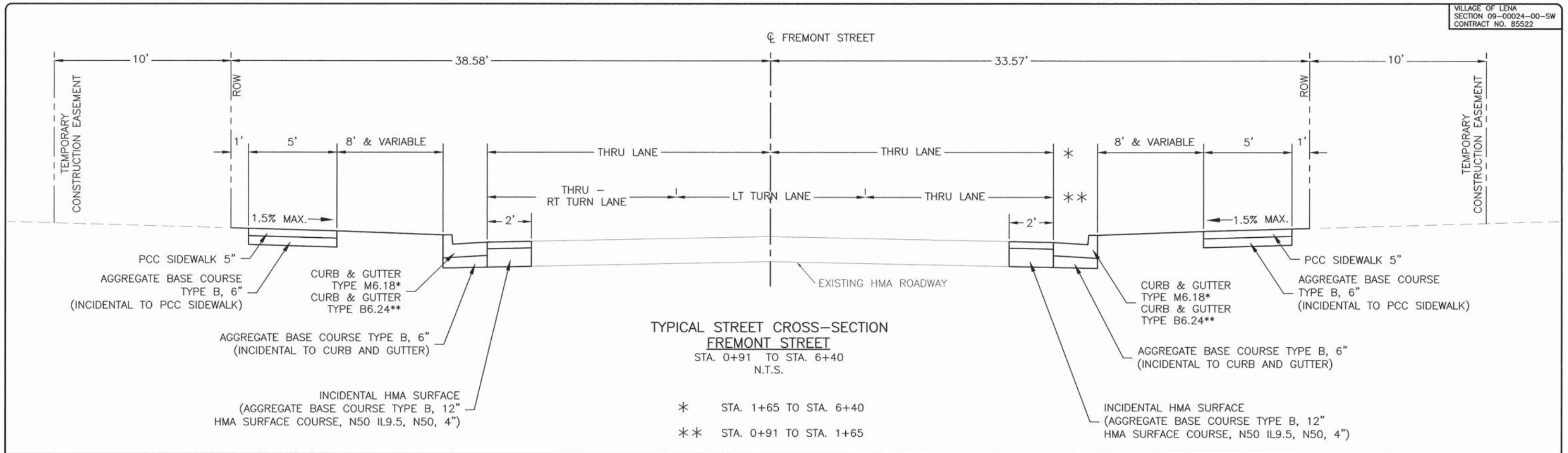
X2800500 INLET PROTECTION - SPECIAL	
STATION	EACH
3+44 (LT)	1
3+44 (RT)	1
5+77 (LT)	1
5+77 (RT)	1
9+17 (LT)	1
9+84 (RT)	1
11+18 (RT)	1
TOTAL	7

REVISIONS		
REV. NO.	DESCRIPTION	DATE

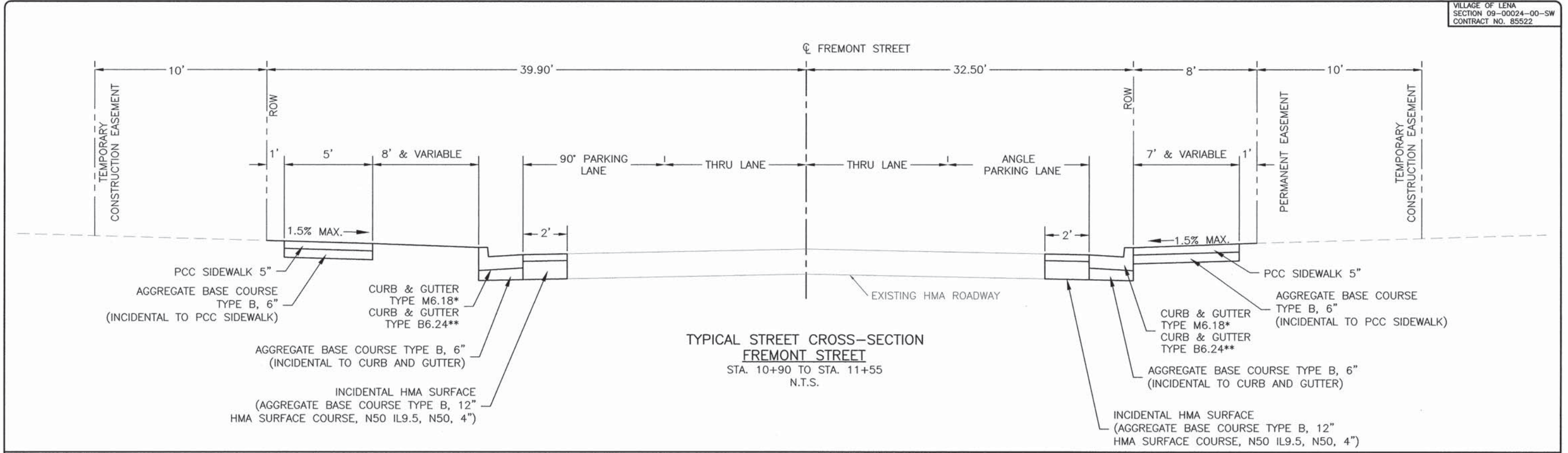


FEHR GRAHAM ENGINEERING & ENVIRONMENTAL <small>ILLINOIS DESIGN FIRM NO. 184-003525</small>	ILLINOIS IOWA WISCONSIN	OWNER/DEVELOPER: VILLAGE OF LENA 122 EAST MAIN STREET LENA, IL 61048	PROJECT AND LOCATION: SAFE ROUTES TO SCHOOL LENA, IL	DRAWN BY: BKI APPROVED BY: PDE DATE: 03/02/16 SCALE: HOR	REVISIONS REV. NO. DESCRIPTION DATE	DRAWING: TYPICAL SECTIONS <small>©(C30)14(14-830)14-830 Plans, Egs. Typ. X-Section</small>	JOB NUMBER: 14-830
					(Empty revision table)		SHEET NUMBER: 6 of 31

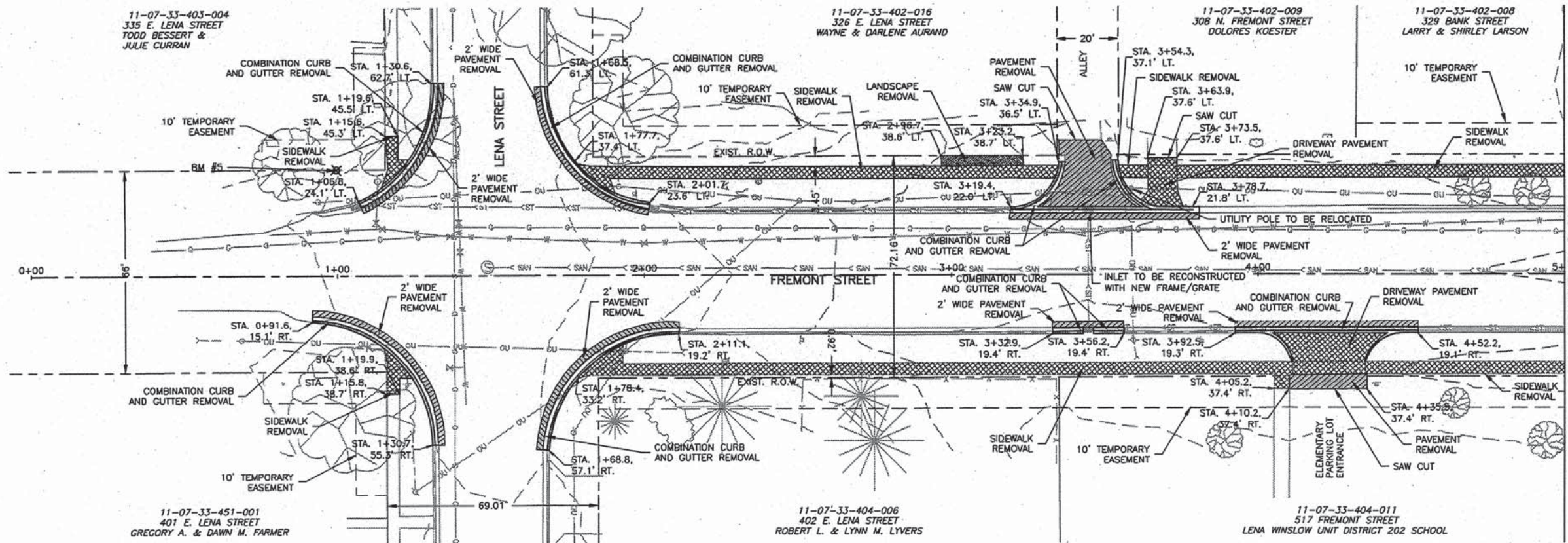
PLOT DATE: 3/2/16 © 2016 FEHR GRAHAM



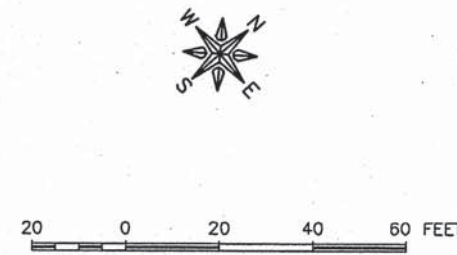
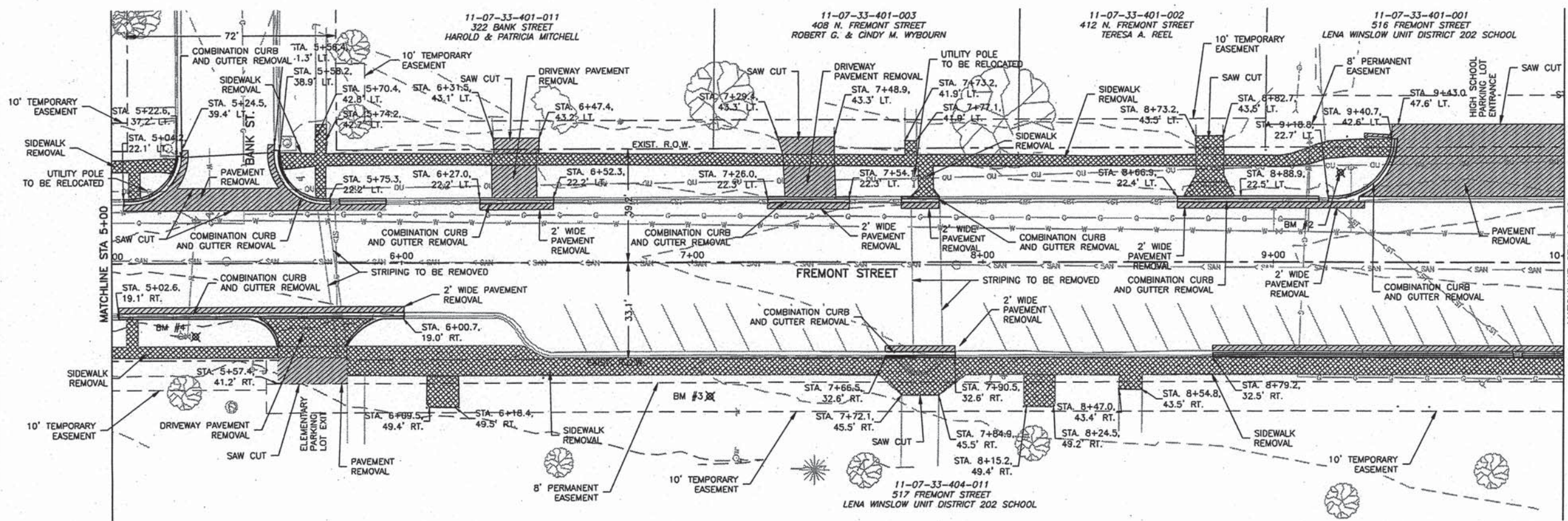
FEHR GRAHAM ENGINEERING & ENVIRONMENTAL <small>ILLINOIS DESIGN FIRM NO. 184-003525</small>	ILLINOIS IOWA WISCONSIN	<small>OWNER/DEVELOPER:</small> VILLAGE OF LENA 122 EAST MAIN STREET LENA, IL 61048	<small>PROJECT AND LOCATION:</small> SAFE ROUTES TO SCHOOL LENA, IL	<small>DRAWN BY:</small> BKI <small>APPROVED BY:</small> PDE <small>DATE:</small> 03/02/16 <small>SCALE:</small> HOR	<small>REVISIONS</small>	<small>DRAWING:</small> TYPICAL SECTIONS	<small>JOB NUMBER:</small> 14-830 <small>SHEET NUMBER:</small> 7 of 31						
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REV. NO.	DESCRIPTION	DATE											



REVISIONS		
REV. NO.	DESCRIPTION	DATE



- LEGEND**
- = CONCRETE REMOVAL
 - = HMA REMOVAL
 - = CURB AND GUTTER REMOVAL
 - = LANDSCAPE REMOVAL



- BM #2 = CAPPED REBAR
N 2080374.01, E 2391440.13, ELEV 952.55
- BM #3 = CAPPED REBAR
N 2080159.66, E 2391356.29, ELEV 950.81
- BM #4 = CAPPED REBAR
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- BM #5 = CAPPED REBAR
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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:
SAFE ROUTES TO SCHOOL
LENA, IL

DRAWN BY: BKI
APPROVED BY: PDE
DATE: 03/03/16
SCALE: HOR




REVISIONS		
REV. NO.	DESCRIPTION	DATE

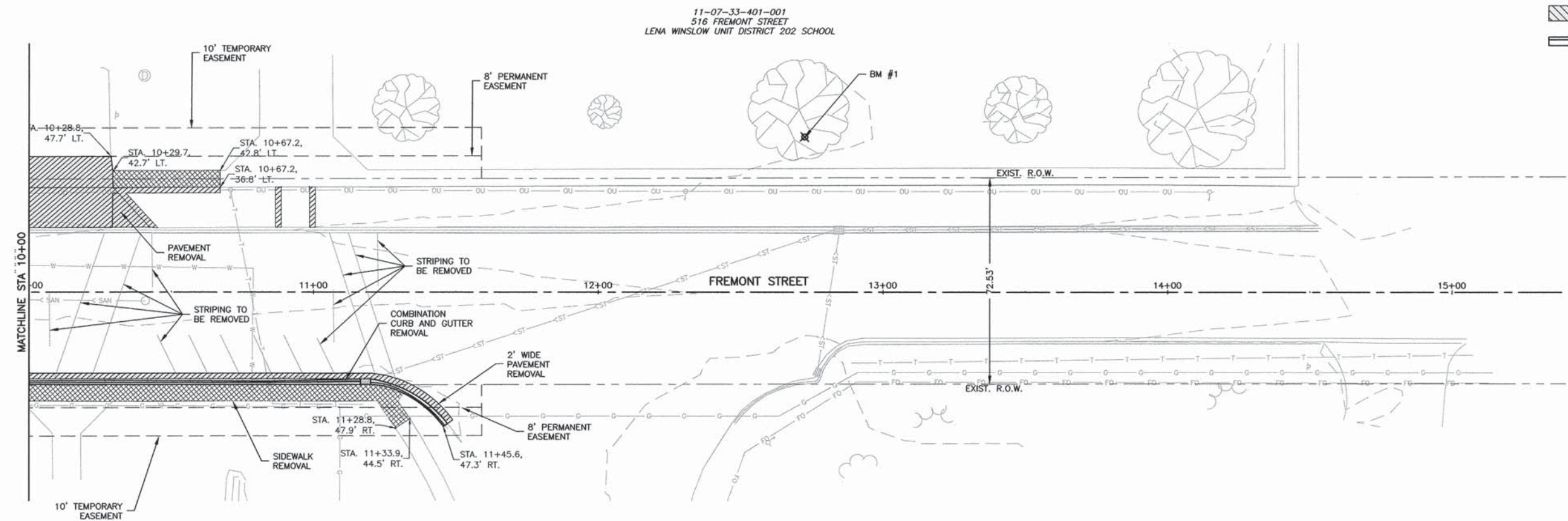
DRAWING:
REMOVAL PLAN STA 0+00 TO 10+00

JOB NUMBER:
14-830

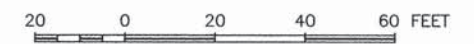
SHEET NUMBER:
9 of 31

LEGEND

-  = CONCRETE REMOVAL
-  = HMA REMOVAL
-  = CURB AND GUTTER REMOVAL



11-07-33-404-011
517 FREMONT STREET
LENA WINSLOW UNIT DISTRICT 202 SCHOOL



BM #1 = CAPPED REBAR
N 2080653.98, E 2391650.53, ELEV 952.23

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

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IOWA
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VILLAGE OF LENA
122 EAST MAIN STREET
LENA, IL 61048

PROJECT AND LOCATION:
SAFE ROUTES TO SCHOOL
LENA, IL

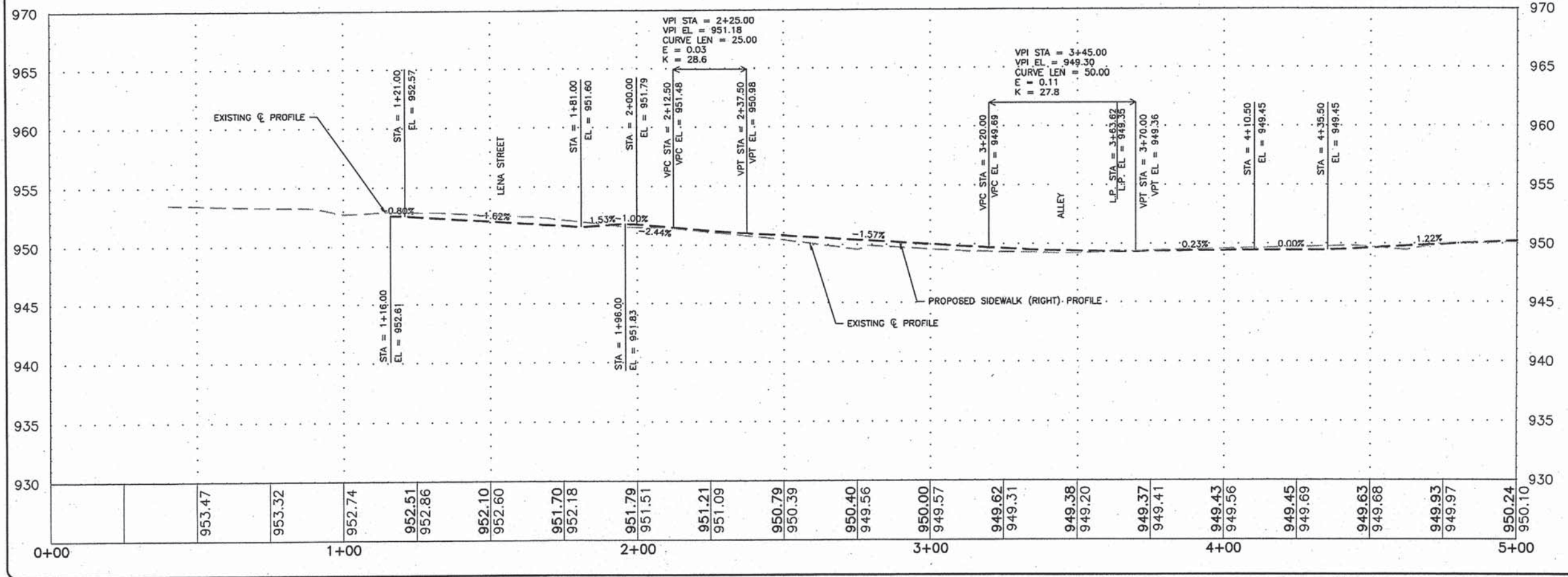
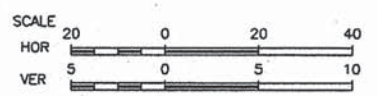
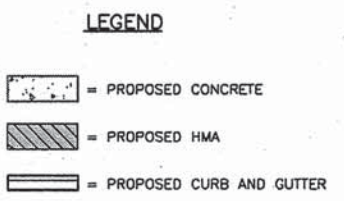
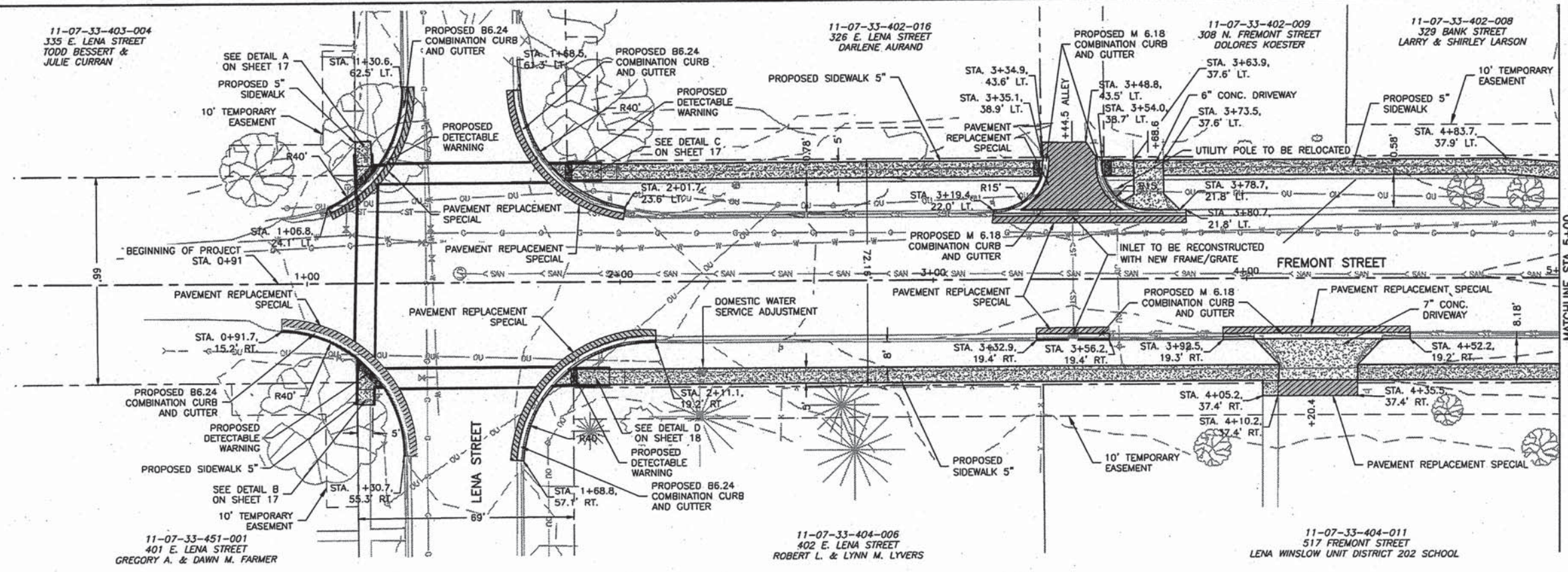
DRAWN BY: BK1
APPROVED BY: PDE
DATE: 03/02/16
SCALE: HOR

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
REMOVAL PLAN STA 10+00 TO 15+00

JOB NUMBER:
14-830

SHEET NUMBER:
10 of 31



FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

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IOWA
WISCONSIN

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

PROJECT AND LOCATION:
SAFE ROUTES TO SCHOOL
LENA, IL

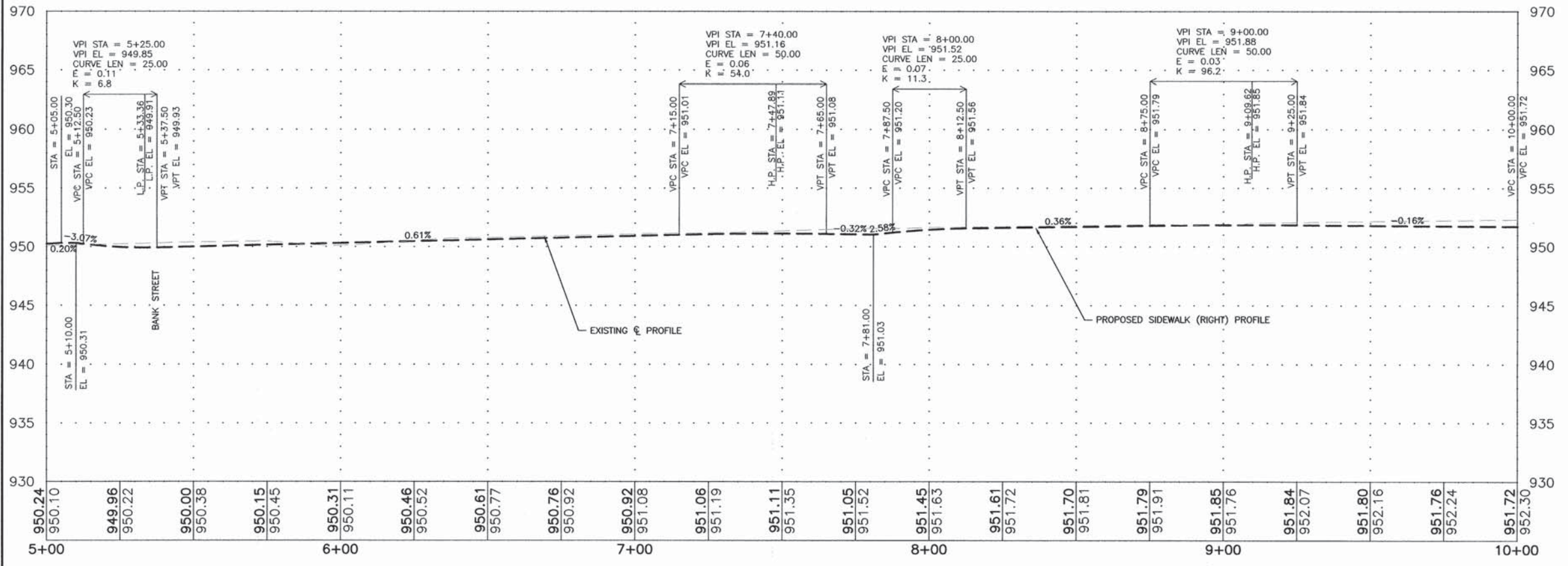
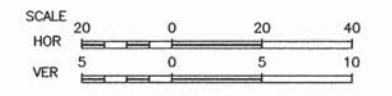
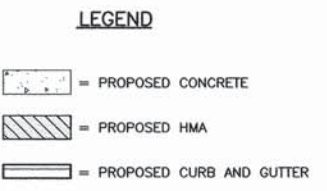
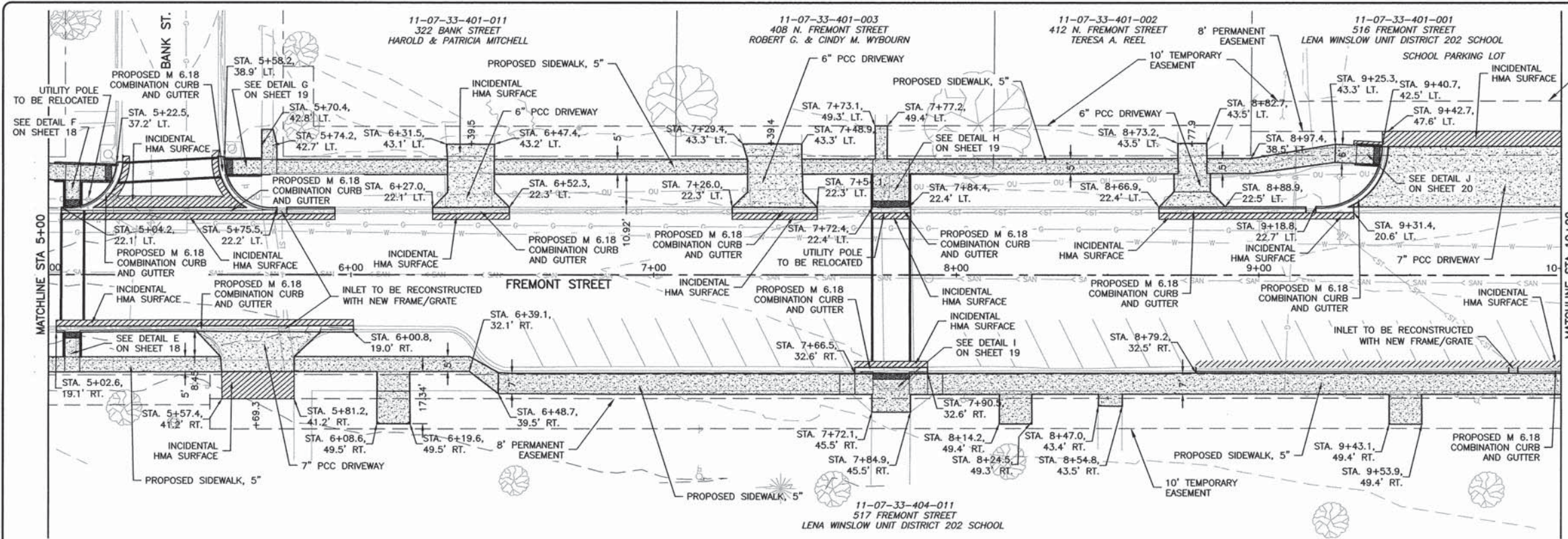
DRAWN BY: BKI
APPROVED BY: PDE
DATE: 03/03/16
SCALE: HOR
VERT

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
PLAN AND PROFILE (RIGHT
SIDEWALK) STA 0+00 TO 5+00

JOB NUMBER:
14-830

SHEET NUMBER:
11 of 31



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VILLAGE OF LENA
122 EAST MAIN STREET
LENA, IL 61048

PROJECT AND LOCATION:
SAFE ROUTES TO SCHOOL
LENA, IL

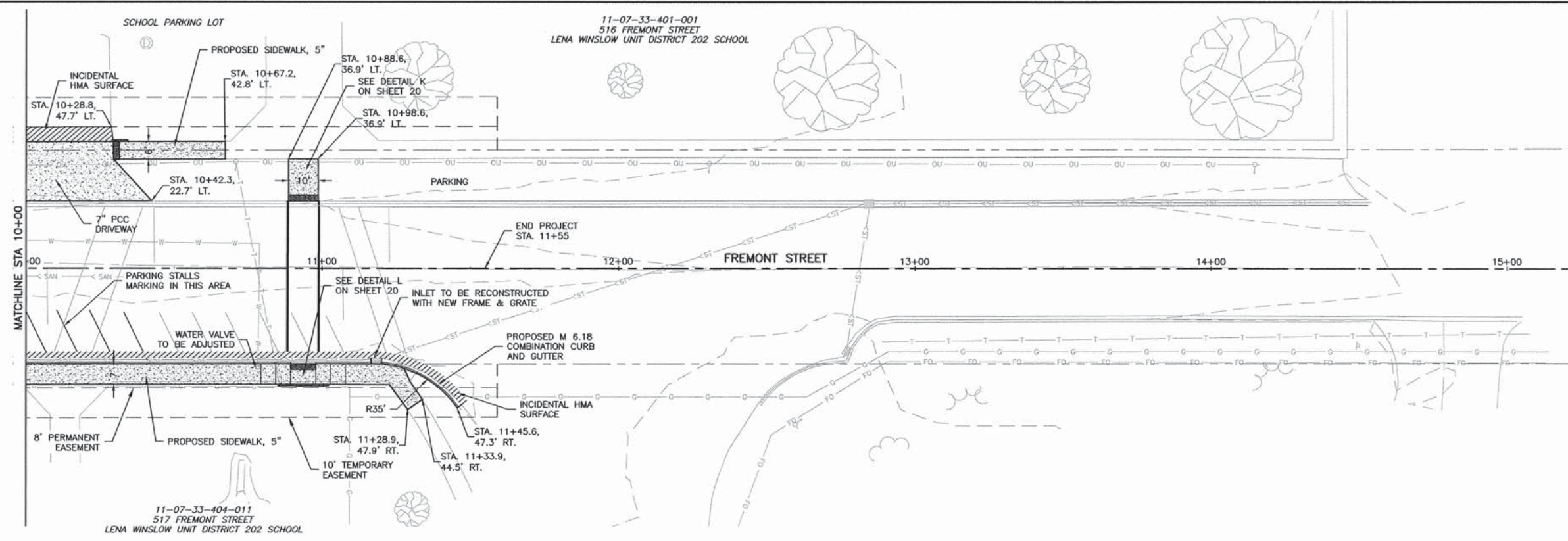
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DATE: 03/02/16
SCALE: HOR
VERT

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
PLAN AND PROFILE (RIGHT SIDEWALK)
STA 5+00 TO 10+00

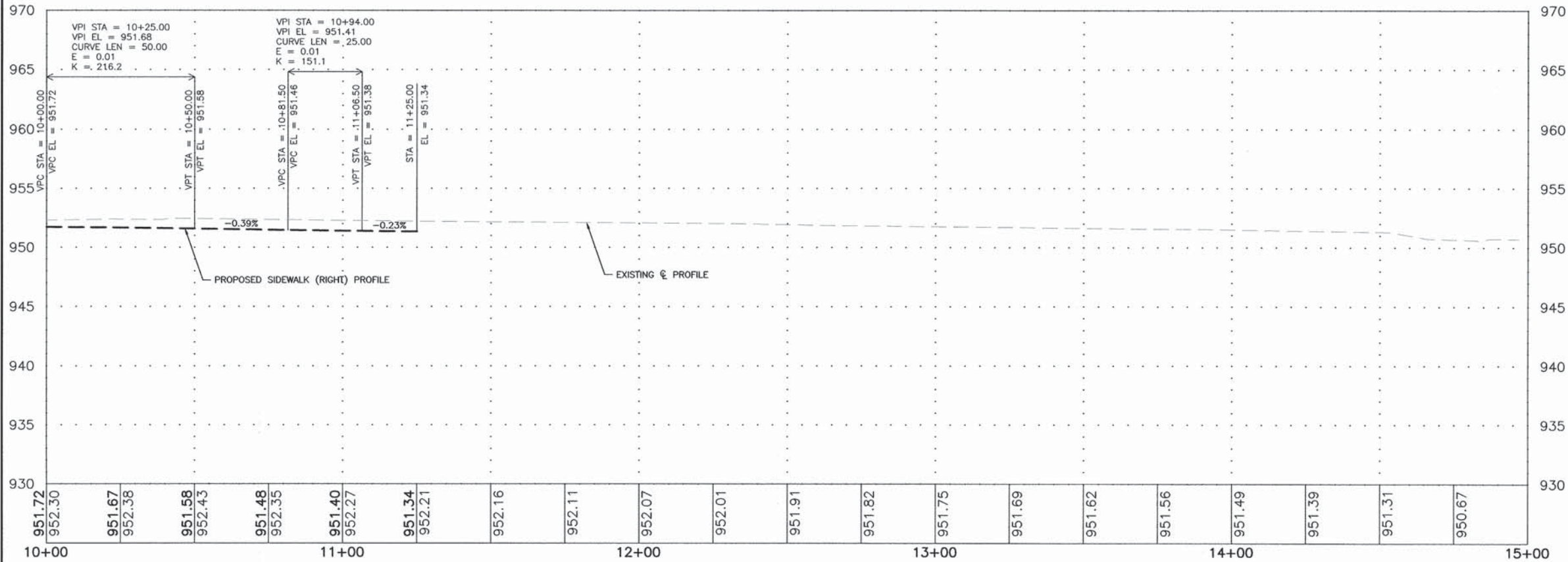
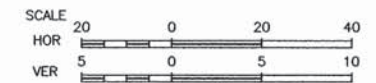
JOB NUMBER:
14-830

SHEET NUMBER:
12 of 31



LEGEND

- = PROPOSED CONCRETE
- = PROPOSED HMA
- = PROPOSED CURB AND GUTTER



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PROJECT AND LOCATION:
SAFE ROUTES TO SCHOOL
LENA, IL

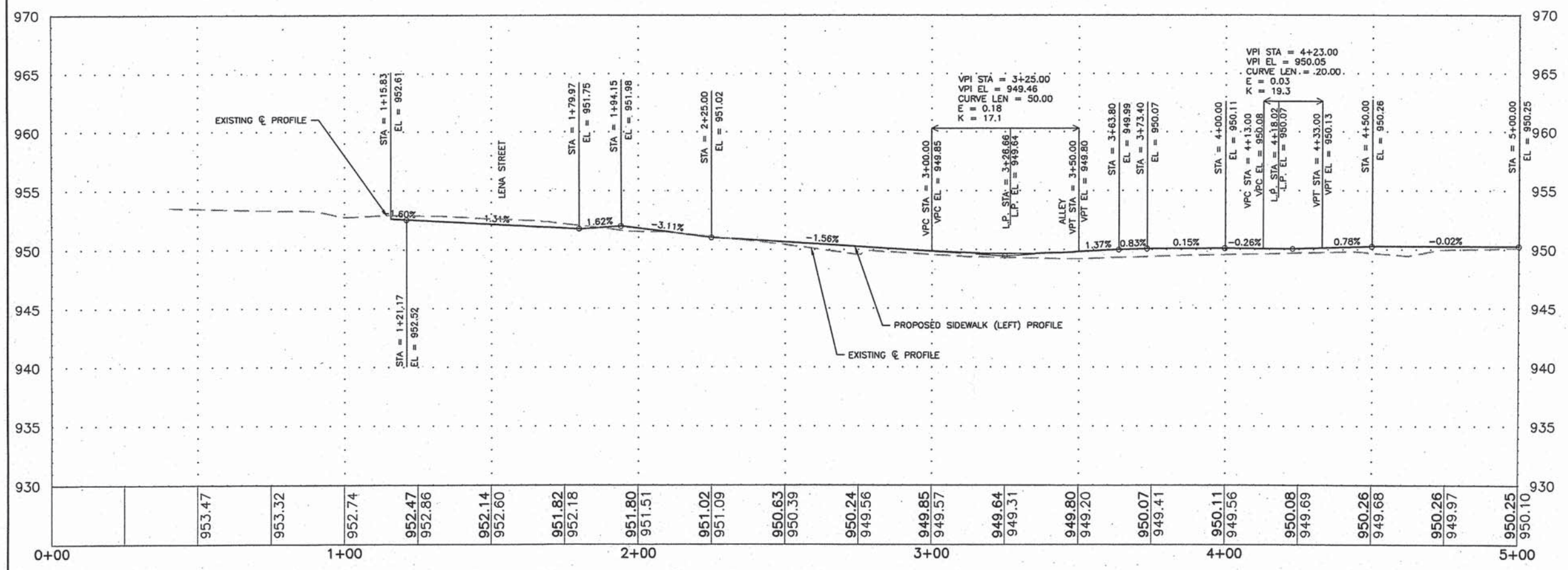
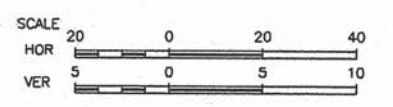
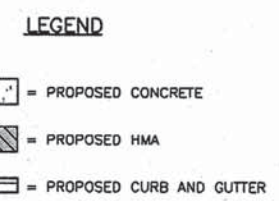
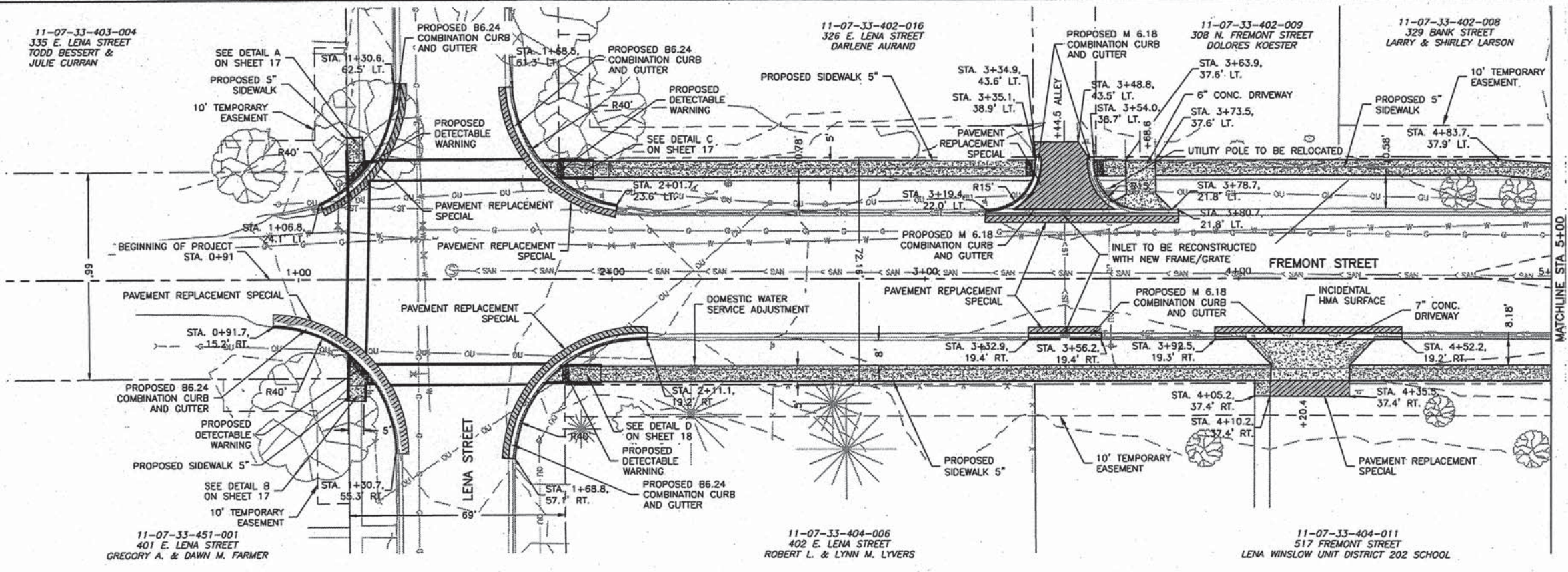
DRAWN BY: BKI
APPROVED BY: PDE
DATE: 03/02/16
SCALE: HOR
VERT

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
PLAN AND PROFILE (RIGHT SIDEWALK)
STA 10+00 TO 15+00

JOB NUMBER:
14-830

SHEET NUMBER:
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FEHR GRAHAM
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LENA, IL 61048

PROJECT AND LOCATION:
SAFE ROUTES TO SCHOOL
LENA, IL

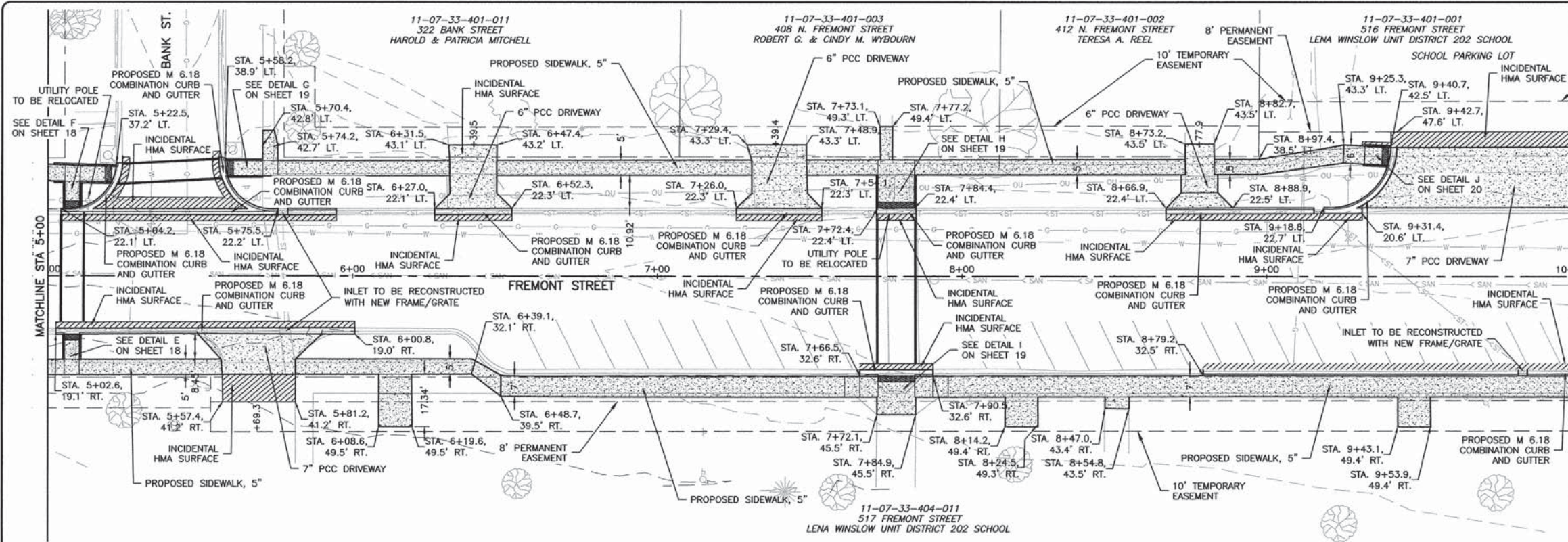
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APPROVED BY: PDE
DATE: 03/03/16
SCALE: HOR
VERT

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
PLAN AND PROFILE (LEFT SIDEWALK)
STA 0+00 TO 5+00

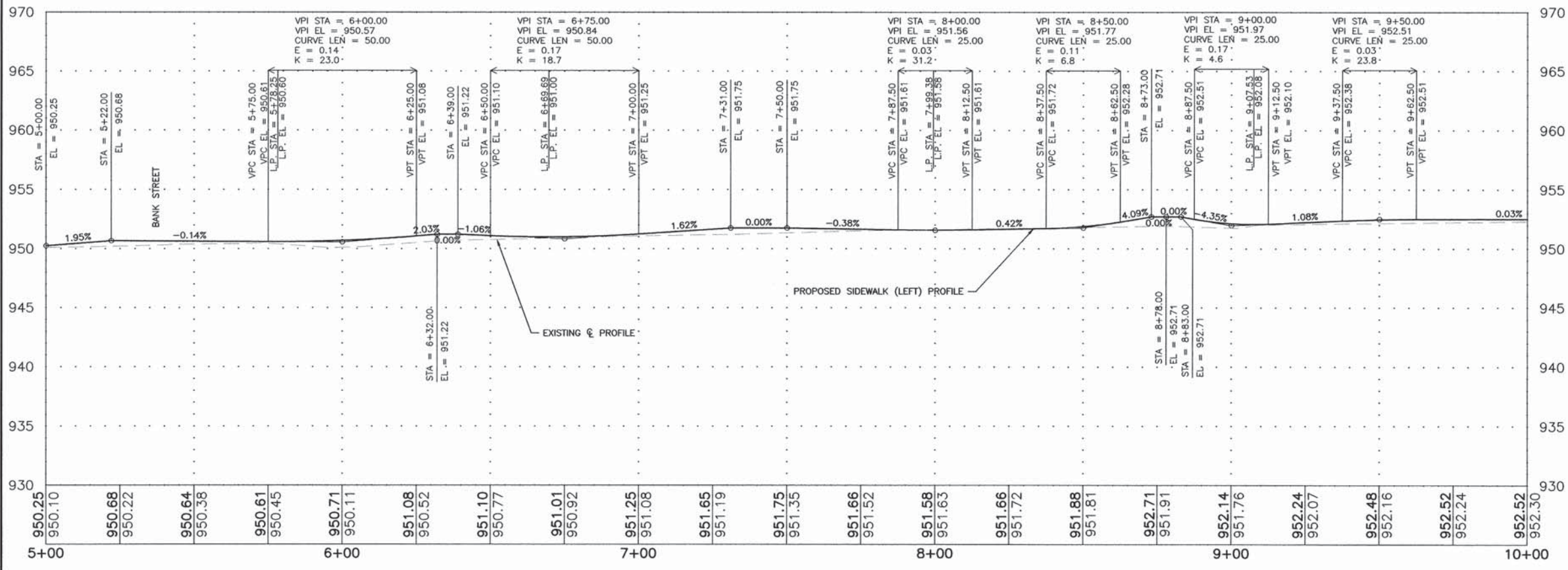
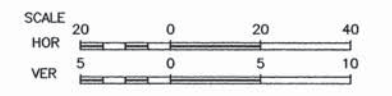
JOB NUMBER:
14-830

SHEET NUMBER:
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LEGEND

- = PROPOSED CONCRETE
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LENA, IL 61048

PROJECT AND LOCATION:
SAFE ROUTES TO SCHOOL
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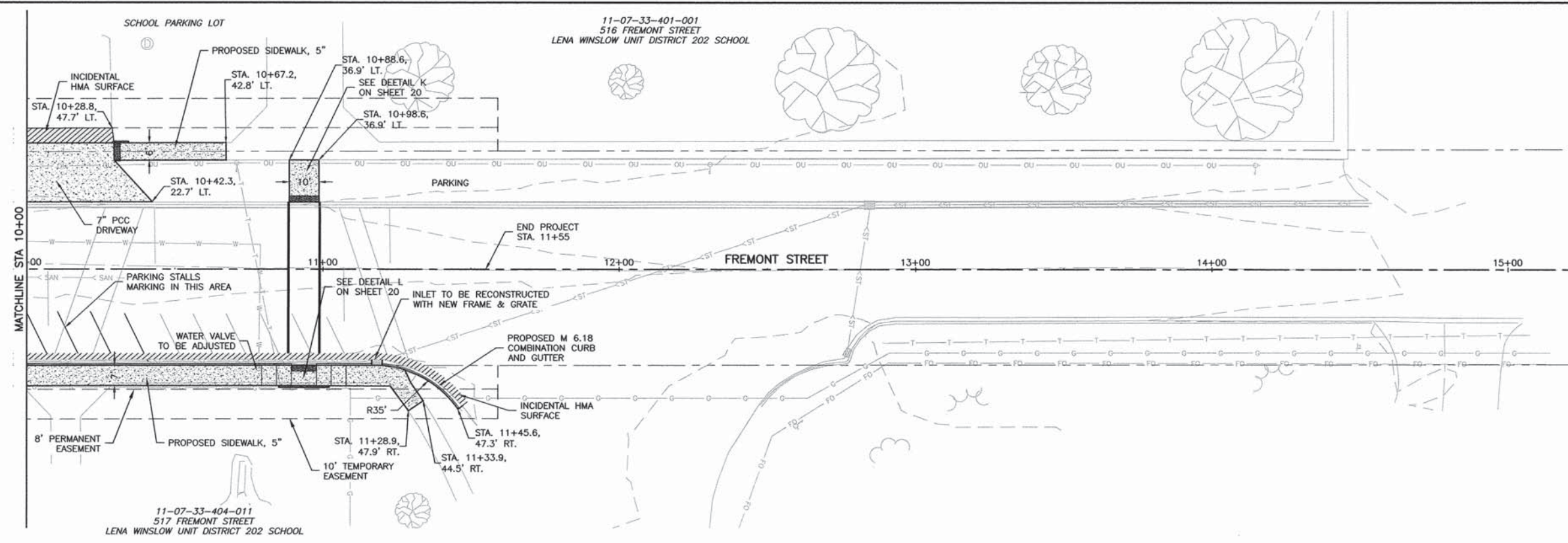
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APPROVED BY: PDE
DATE: 03/02/16
SCALE: HOR
VERT

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
PLAN AND PROFILE (LEFT SIDEWALK)
STA 5+00 TO 10+00

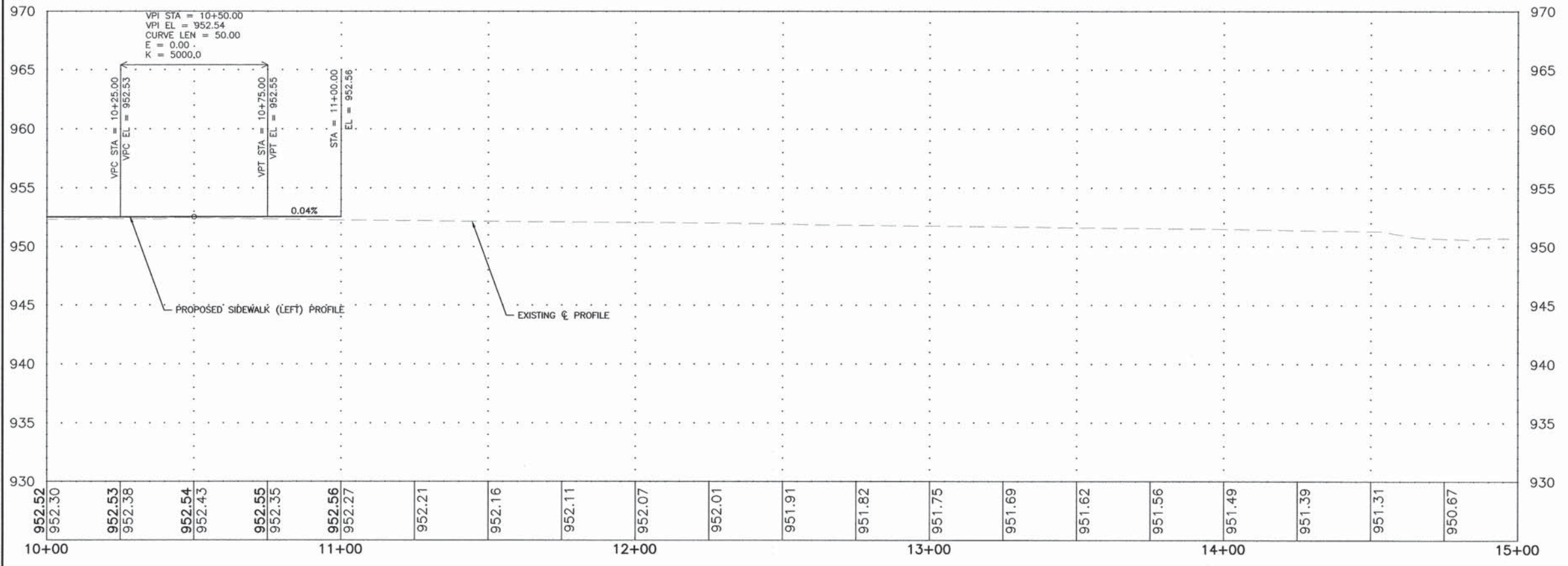
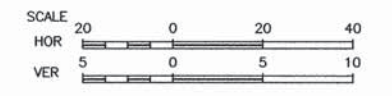
JOB NUMBER:
14-830

SHEET NUMBER:
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LEGEND

- = PROPOSED CONCRETE
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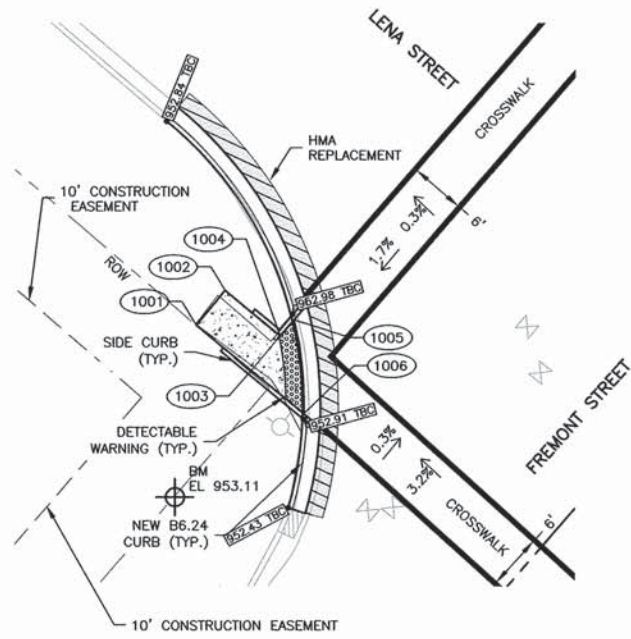
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APPROVED BY: PDE
DATE: 03/02/16
SCALE: HOR
VERT

REVISIONS		
REV. NO.	DESCRIPTION	DATE

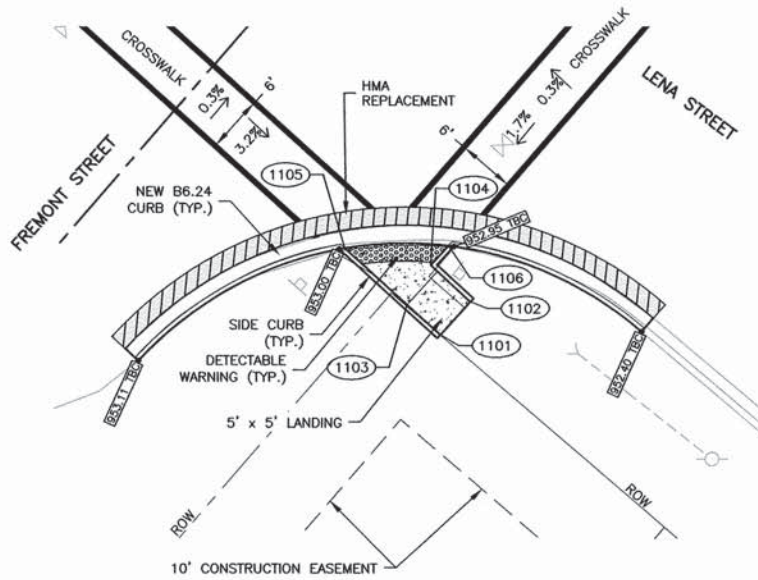
DRAWING:
PLAN AND PROFILE (LEFT SIDEWALK)
STA 10+00 TO 15+00

JOB NUMBER:
14-830

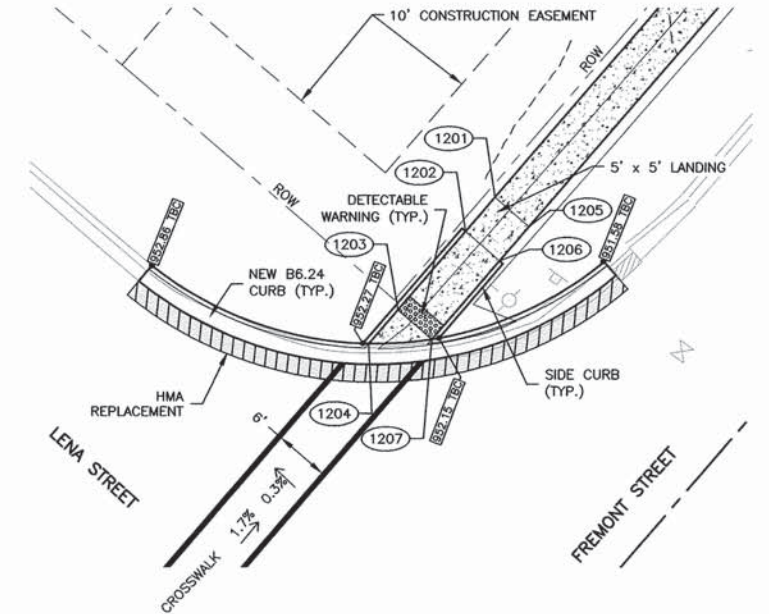
SHEET NUMBER:
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DETAIL A (STA. 1+19 LT)
SCALE: 1" = 10'-0"



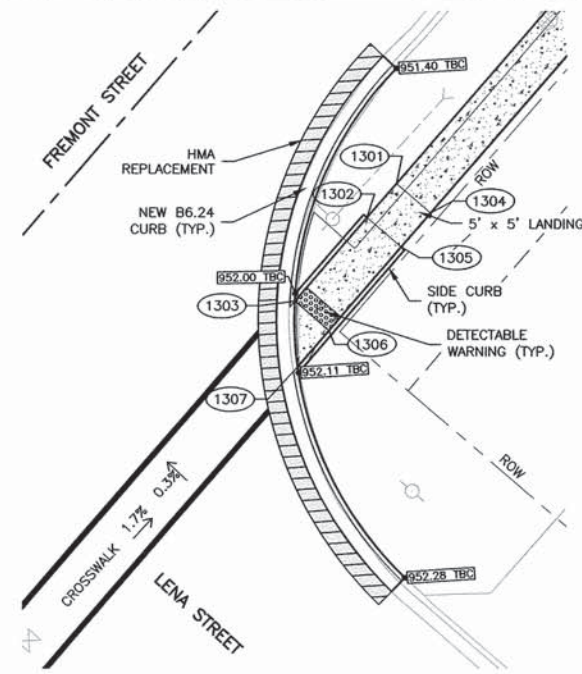
DETAIL B (STA. 1+19 RT)
SCALE: 1" = 10'-0"



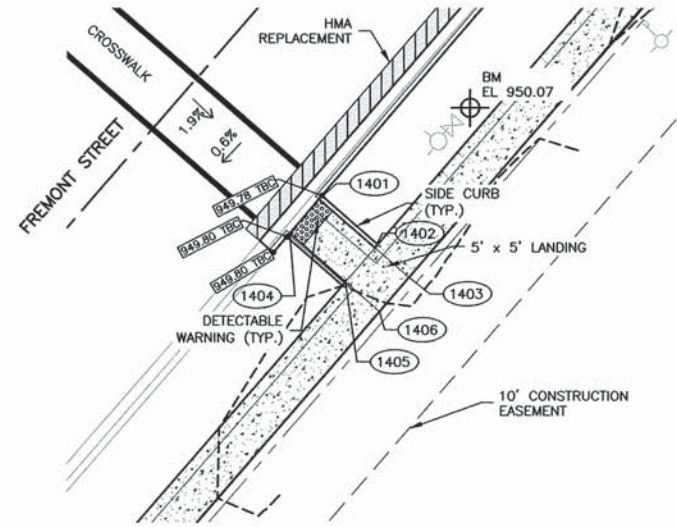
DETAIL C (1+80 LT)
SCALE: 1" = 10'-0"



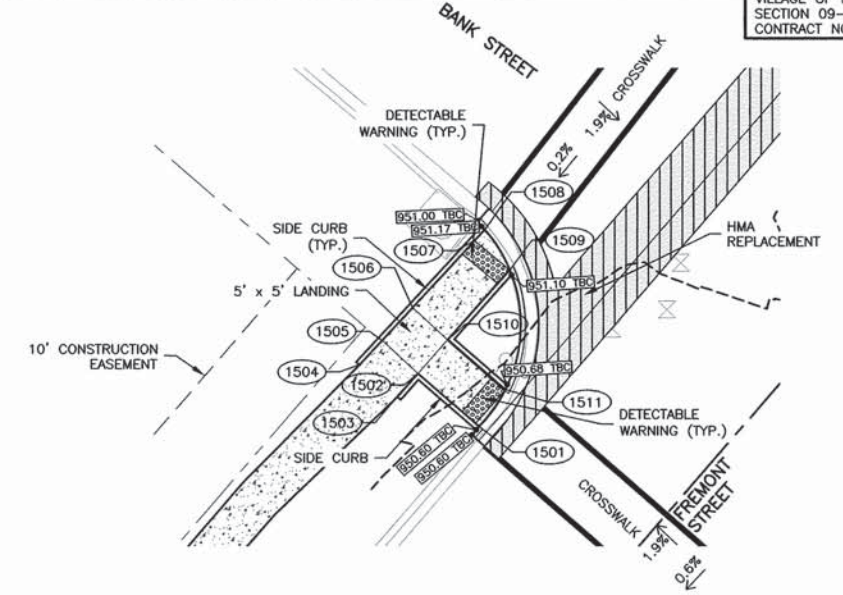
SIDEWALK COMPLIANCE												
POINT TO POINT	SIDEWALK DESIGNATIONS	DISTANCE	Δ ELEVATION	SLOPE	ACCEPTABLE RANGE (POS. OR NEG.)		COMMENTS	FOR INFORMATION ONLY: VALUES USED TO BE DETERMINE DESIGNED SLOPES				
					MIN.	MAX.		POINT	STATION	OFFSET	ELEVATIONS	
		FT	FT	%								
1001	1002	SIDEWALK CROSS SLOPE	5.00	0.06	1.20%	0.50%	2.00%	DETAIL A	1001			952.99
1001	1003	RAMP RUNNING SLOPE	7.90	0.49	6.20%	0.50%	8.33%	DETAIL A	1002			952.93
1002	1004	RAMP RUNNING SLOPE	7.93	0.48	6.05%	0.50%	8.33%	DETAIL A	1003			952.50
1004	1005	LANDING	2.37	0.04	1.69%	0.10%	2.00%	DETAIL A	1004			952.45
1003	1006	LANDING	7.55	0.13	1.72%	0.10%	2.00%	DETAIL A	1005			952.49
1003	1004	SIDEWALK CROSS SLOPE	5.00	0.05	1.00%	0.50%	2.00%	DETAIL A	1006			952.37
1005	1006	LANDING	10.48	0.12	1.15%	0.10%	2.00%	DETAIL A				
1101	1102	LANDING	5.00	0.09	1.80%	0.10%	2.00%	DETAIL B	1101			952.55
1101	1103	RAMP RUNNING SLOPE	6.00	0.05	0.83%	0.50%	8.33%	DETAIL B	1102			952.46
1103	1105	LANDING	6.92	0.04	0.58%	0.10%	2.00%	DETAIL B	1103			952.60
1102	1104	RAMP RUNNING SLOPE	6.00	0.06	1.00%	0.50%	8.33%	DETAIL B	1104			952.52
1104	1106	LANDING	2.93	0.03	1.02%	0.10%	2.00%	DETAIL B	1105			952.64
1103	1104	RAMP CROSS SLOPE	5.00	0.08	1.60%	0.10%	2.00%	DETAIL B	1106			952.49
1105	1106	LANDING	11.51	0.15	1.30%	0.10%	2.00%	DETAIL B				
1201	1205	LANDING	5.00	0.09	1.80%	0.10%	2.00%	DETAIL C	1201			952.16
1202	1206	LANDING	5.00	0.09	1.80%	0.10%	2.00%	DETAIL C	1202			952.07
1203	1207	RAMP CROSS SLOPE	5.00	0.09	1.80%	0.10%	2.00%	DETAIL C	1203			951.78
1201	1202	LANDING	5.00	0.09	1.80%	0.10%	2.00%	DETAIL C	1204			951.81
1202	1203	RAMP RUNNING SLOPE	11.49	0.29	2.52%	0.50%	8.33%	DETAIL C	1205			952.07
1203	1204	LANDING	4.94	0.03	0.61%	0.10%	2.00%	DETAIL C	1206			951.98
1205	1206	LANDING	5.00	0.09	1.80%	0.10%	2.00%	DETAIL C	1207			951.69
1206	1207	RAMP RUNNING SLOPE	11.49	0.29	2.52%	0.50%	8.33%	DETAIL C				
1204	1207	LANDING	7.03	0.12	1.71%	0.10%	2.00%	DETAIL C				



DETAIL D (STA. 1+80 RT)
SCALE: 1" = 10'-0"

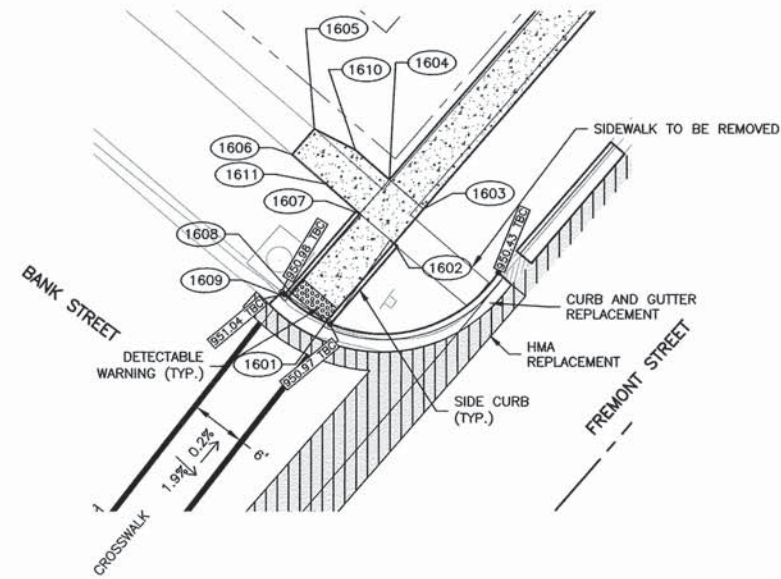


DETAIL E (STA. 5+07 RT)
SCALE: 1" = 10'-0"

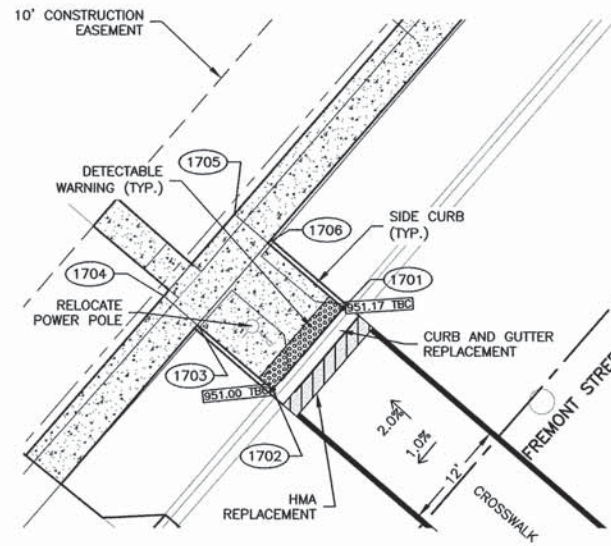


DETAIL F (STA. 5+07 LT)
SCALE: 1" = 10'-0"

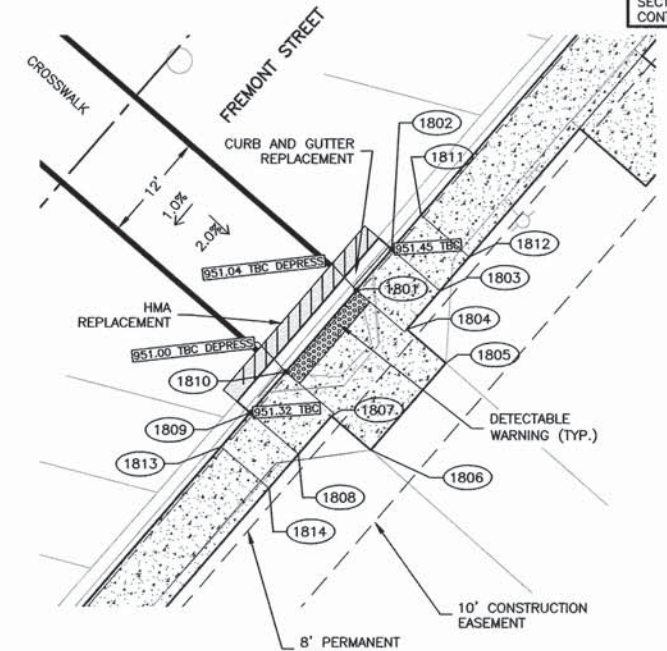
SIDEWALK COMPLIANCE												
POINT TO POINT	SIDEWALK DESIGNATIONS	DISTANCE	Δ ELEVATION	SLOPE	ACCEPTABLE RANGE (POS. OR NEG.)		COMMENTS	FOR INFORMATION ONLY: VALUES USED TO BE DETERMINE DESIGNED SLOPES				
					MIN.	MAX.		POINT	STATION	OFFSET	ELEVATIONS	
1301	1302	LANDING	5.00	0.07	1.40%	0.10%	2.00%	DETAIL D	1301			951.87
1302	1303	RAMP RUNNING SLOPE	12.26	0.26	2.12%	0.50%	8.33%	DETAIL D	1302			951.80
1304	1305	LANDING	5.00	0.07	1.40%	0.10%	2.00%	DETAIL D	1303			951.54
1305	1306	RAMP RUNNING SLOPE	12.26	0.27	2.20%	0.50%	8.33%	DETAIL D	1304			951.94
1306	1307	LANDING	5.31	0.05	0.94%	0.10%	2.00%	DETAIL D	1305			951.87
1301	1304	LANDING	5.00	0.07	1.40%	0.10%	2.00%	DETAIL D	1306			951.60
1302	1305	LANDING	5.00	0.07	1.40%	0.10%	2.00%	DETAIL D	1307			951.65
1303	1306	LANDING	5.00	0.06	1.20%	0.10%	2.00%	DETAIL D				
1303	1307	LANDING	7.30	0.11	1.51%	0.10%	2.00%	DETAIL D				
1401	1402	RAMP RUNNING SLOPE	8.24	0.56	6.80%	0.50%	8.33%	DETAIL E	1401			949.28
1402	1403	LANDING	5.00	0.08	1.60%	0.10%	2.00%	DETAIL E	1402			949.84
1404	1405	RAMP RUNNING SLOPE	8.24	0.59	7.16%	0.50%	8.33%	DETAIL E	1403			949.92
1405	1406	LANDING	5.00	0.08	1.60%	0.10%	2.00%	DETAIL E	1404			949.29
1401	1404	RAMP CROSS SLOPE	5.00	0.01	0.20%	0.10%	2.00%	DETAIL E	1405			949.88
1402	1405	LANDING	5.00	0.04	0.80%	0.10%	2.00%	DETAIL E	1406			949.96
1403	1406	LANDING	5.00	0.04	0.80%	0.10%	2.00%	DETAIL E				
1501	1502	RAMP RUNNING SLOPE	9.00	0.56	6.22%	0.50%	8.33%	DETAIL F	1501			950.14
1502	1503	SIDEWALK RUNNING SLOPE	5.00	0.05	1.00%	0.50%	5.00%	DETAIL F	1502			950.70
1503	1504	SIDEWALK CROSS SLOPE	5.00	0.08	1.60%	0.50%	2.00%	DETAIL F	1503			950.65
1504	1505	SIDEWALK RUNNING SLOPE	5.00	0.05	1.00%	0.50%	5.00%	DETAIL F	1504			950.73
1505	1506	LANDING	5.00	0.08	1.60%	0.10%	2.00%	DETAIL F	1505			950.78
1506	1507	RAMP RUNNING SLOPE	10.00	0.14	1.40%	0.50%	8.33%	DETAIL F	1506			950.86
1507	1508	LANDING	1.70	0.01	0.59%	0.10%	2.00%	DETAIL F	1507			950.72
1508	1509	LANDING	5.10	0.07	1.37%	0.10%	2.00%	DETAIL F	1508			950.71
1509	1510	RAMP RUNNING SLOPE	10.30	0.14	1.36%	0.50%	8.33%	DETAIL F	1509			950.64
1510	1511	RAMP RUNNING SLOPE	8.50	0.56	6.59%	0.50%	8.33%	DETAIL F	1510			950.78
1502	1510	LANDING	5.00	0.08	1.60%	0.10%	2.00%	DETAIL F	1511			950.22
1502	1505	LANDING	5.00	0.08	1.60%	0.10%	2.00%	DETAIL F				
1506	1510	LANDING	5.00	0.08	1.60%	0.10%	2.00%	DETAIL F				
1507	1509	RAMP CROSS SLOPE	5.00	0.08	1.60%	0.10%	2.00%	DETAIL F				



DETAIL G (STA 5+61 LT)
SCALE: 1" = 10'-0"



DETAIL H (STA 7+78 LT)
SCALE: 1" = 10'-0"



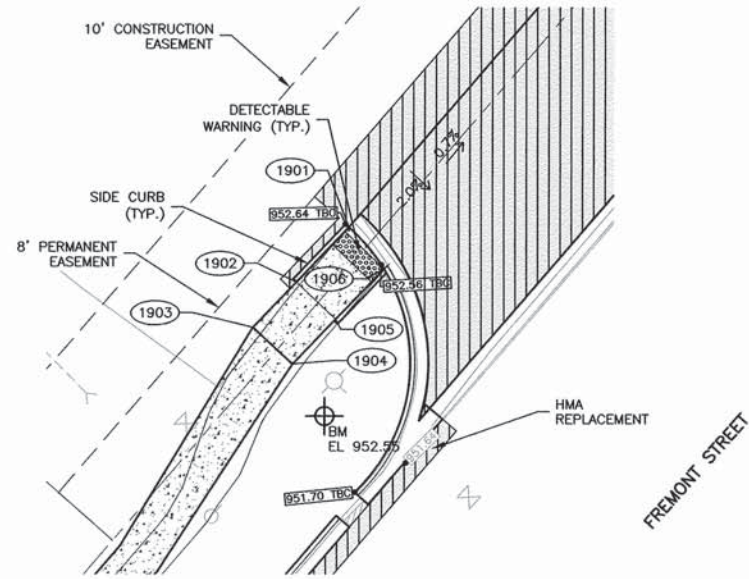
DETAIL I (STA 7+78 RT)
SCALE: 1" = 10'-0"



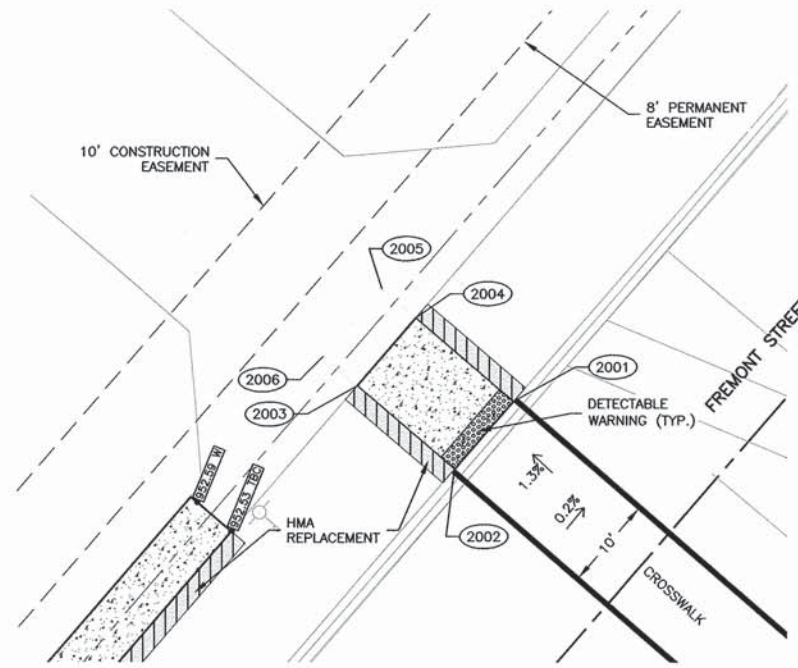
SIDEWALK COMPLIANCE												
POINT TO POINT	SIDEWALK DESIGNATIONS	DISTANCE	Δ ELEVATION		SLOPE	ACCEPTABLE RANGE (POS. OR NEG.)		COMMENTS	FOR INFORMATION ONLY: VALUES USED TO BE DETERMINE DESIGNED SLOPES			
			FT	FT		MIN.	MAX.		POINT	STATION	OFFSET	ELEVATIONS
1601	1602	RAMP RUNNING SLOPE	11.60	0.34	2.93%	0.50%	8.33%	DETAIL G	1601			950.51
1602	1603	LANDING	5.00	0.06	1.20%	0.10%	2.00%	DETAIL G	1602			950.85
1603	1604	LANDING	5.00	0.08	1.60%	0.10%	2.00%	DETAIL G	1603			950.91
1604	1610	SIDEWALK RUNNING SLOPE	5.00	0.09	1.80%	0.50%	5.00%	DETAIL G	1604			950.99
1605	1606	SIDEWALK CROSS SLOPE	3.80	0.02	0.53%	0.50%	2.00%	DETAIL G	1605			950.94
1607	1609	RAMP RUNNING SLOPE	11.60	0.31	2.67%	0.50%	8.33%	DETAIL G	1606			950.96
1602	1607	LANDING	5.00	0.05	1.00%	0.10%	2.00%	DETAIL G	1607			950.90
1601	1609	RAMP CROSS SLOPE	5.00	0.08	1.60%	0.10%	2.00%	DETAIL G	1608			950.58
1606	1611	SIDEWALK RUNNING SLOPE	5.00	0.03	0.60%	0.50%	5.00%	DETAIL G	1609			950.59
1604	1607	LANDING	5.00	0.09	1.80%	0.10%	2.00%	DETAIL G	1610			950.90
1608	1609	LANDING	0.52	0.01	1.92%	0.10%	2.00%	DETAIL G	1611			950.93
1610	1605	SIDEWALK RUNNING SLOPE	5.10	0.04	0.78%	0.50%	5.00%	DETAIL G				
1611	1607	SIDEWALK RUNNING SLOPE	5.00	0.03	0.60%	0.50%	5.00%	DETAIL G				
1610	1611	SIDEWALK CROSS SLOPE	5.00	0.03	0.60%	0.50%	2.00%	DETAIL G				
1601	1608	LANDING	5.03	0.07	1.39%	0.10%	2.00%	DETAIL G				
1701	1702	RAMP CROSS SLOPE	12.00	0.17	1.42%	0.10%	2.00%	DETAIL H	1701			951.17
1702	1703	RAMP RUNNING SLOPE	11.00	0.85	7.73%	0.50%	8.33%	DETAIL H	1702			951.00
1703	1704	LANDING	5.00	0.08	1.60%	0.10%	2.00%	DETAIL H	1703			951.85
1704	1705	LANDING	12.00	0.11	0.92%	0.10%	2.00%	DETAIL H	1704			951.93
1705	1706	LANDING	5.00	0.08	1.60%	0.10%	2.00%	DETAIL H	1705			952.04
1701	1706	RAMP RUNNING SLOPE	11.00	0.79	7.18%	0.50%	8.33%	DETAIL H	1706			951.96
1703	1706	LANDING	12.00	0.11	0.92%	0.10%	2.00%	DETAIL H				
1801	1802	RAMP RUNNING SLOPE	6.00	0.41	6.83%	0.50%	8.33%	DETAIL I	1801			951.04
1802	1803	SIDEWALK CROSS SLOPE	7.00	0.11	1.57%	0.50%	2.00%	DETAIL I	1802			951.45
1803	1804	RAMP RUNNING SLOPE	6.00	0.41	6.83%	0.50%	8.33%	DETAIL I	1803			951.56
1804	1805	RAMP RUNNING SLOPE	5.80	0.09	1.55%	0.50%	8.33%	DETAIL I	1804			951.15
1805	1806	RAMP CROSS SLOPE	12.80	0.03	0.23%	0.10%	2.00%	DETAIL I	1805			951.24
1806	1807	RAMP RUNNING SLOPE	5.80	0.10	1.72%	0.50%	8.33%	DETAIL I	1806			951.21
1807	1808	RAMP RUNNING SLOPE	6.00	0.32	5.33%	0.50%	8.33%	DETAIL I	1807			951.11
1808	1809	SIDEWALK CROSS SLOPE	7.00	0.11	1.57%	0.50%	2.00%	DETAIL I	1808			951.43
1809	1810	RAMP RUNNING SLOPE	6.00	0.32	5.33%	0.50%	8.33%	DETAIL I	1809			951.32

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
1810	1801	RAMP CROSS SLOPE	12.00	0.04	0.33%	0.10%	2.00%	DETAIL I	1810			951.00
1804	1807	LANDING	12.00	0.04	0.33%	0.10%	2.00%	DETAIL I	1811			951.53
1801	1804	LANDING	7.00	0.11	1.57%	0.10%	2.00%	DETAIL I	1812			951.64
1807	1810	LANDING	7.00	0.11	1.57%	0.10%	2.00%	DETAIL I	1813			951.40
1802	1811	LANDING	5.00	0.08	1.60%	0.10%	2.00%	DETAIL I	1814			951.50
1811	1812	LANDING	7.00	0.11	1.57%	0.10%	2.00%	DETAIL I				
1809	1813	LANDING	5.00	0.08	1.60%	0.10%	2.00%	DETAIL I				
1808	1814	LANDING	5.00	0.07	1.40%	0.10%	2.00%	DETAIL I				
1813	1814	LANDING	7.00	0.10	1.43%	0.10%	2.00%	DETAIL I				
1812	1803	LANDING	5.00	0.08	1.60%	0.10%	2.00%	DETAIL I				

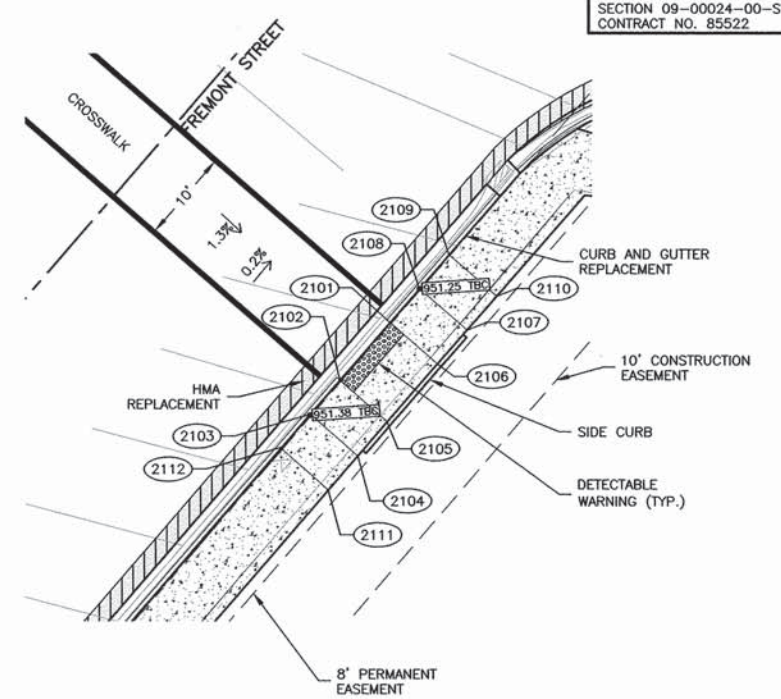
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REV. NO.	DESCRIPTION	DATE



DETAIL J (STA 9+40 LT)
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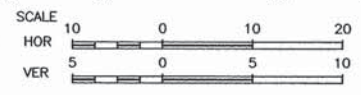
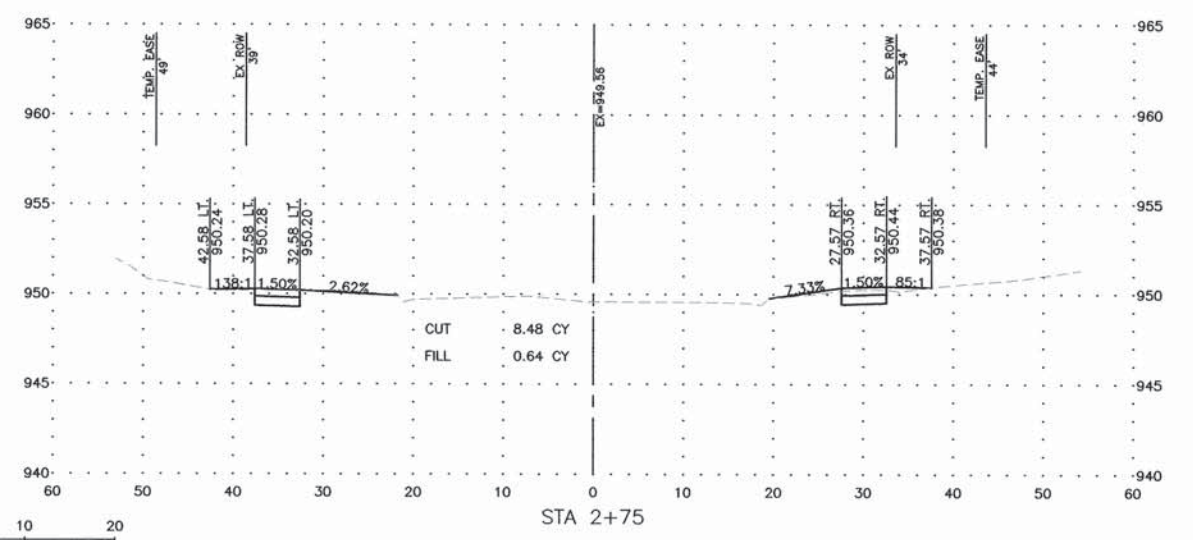
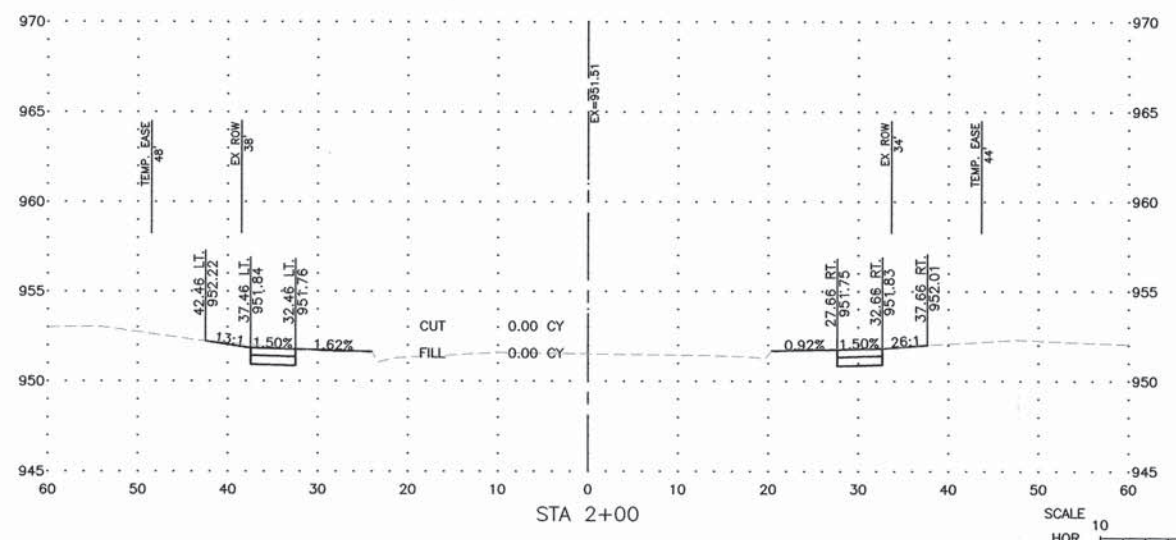
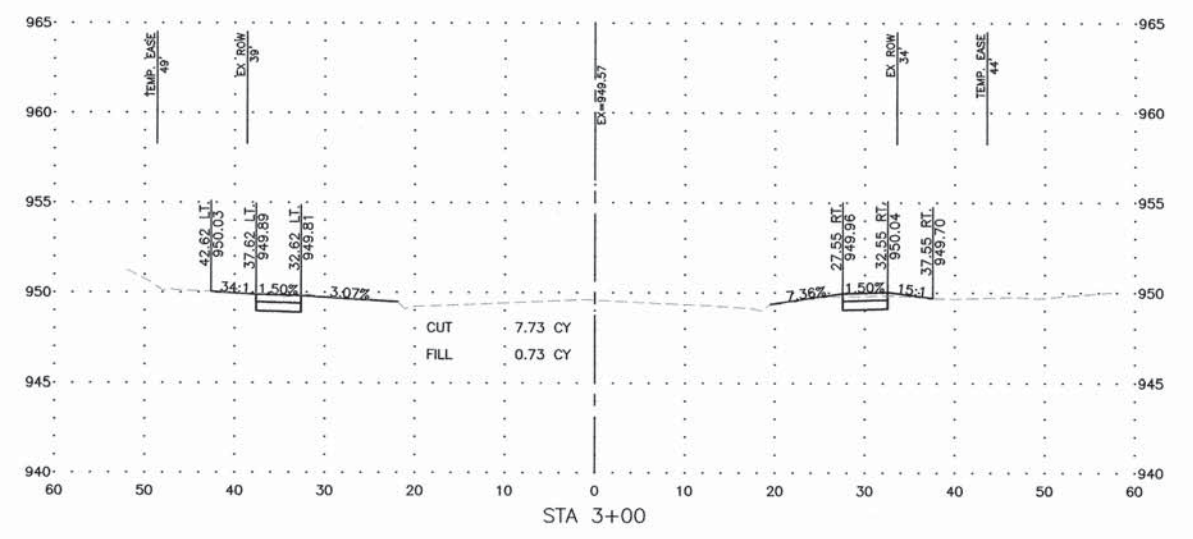
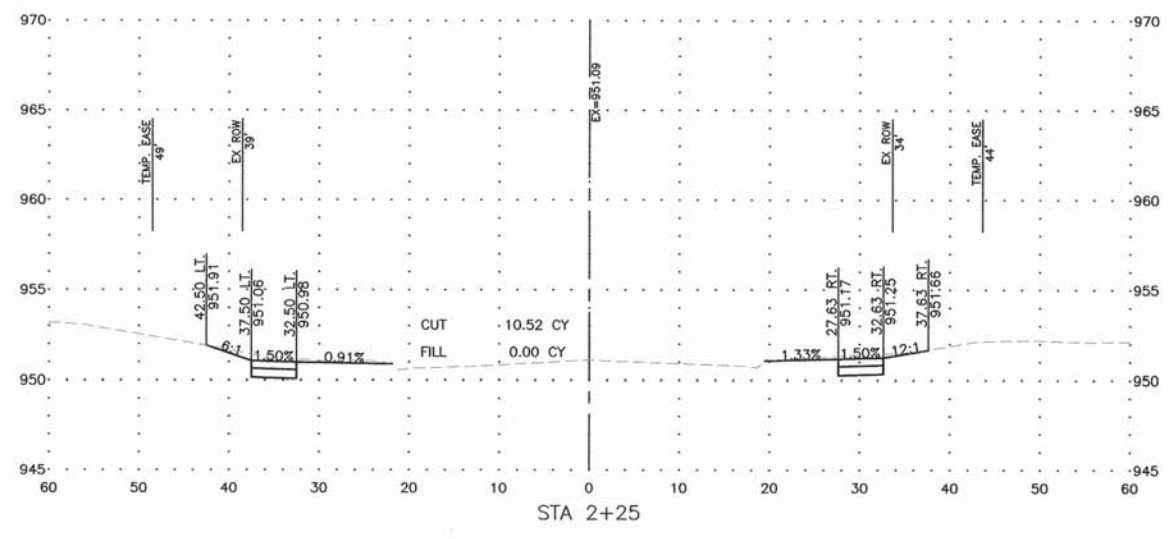
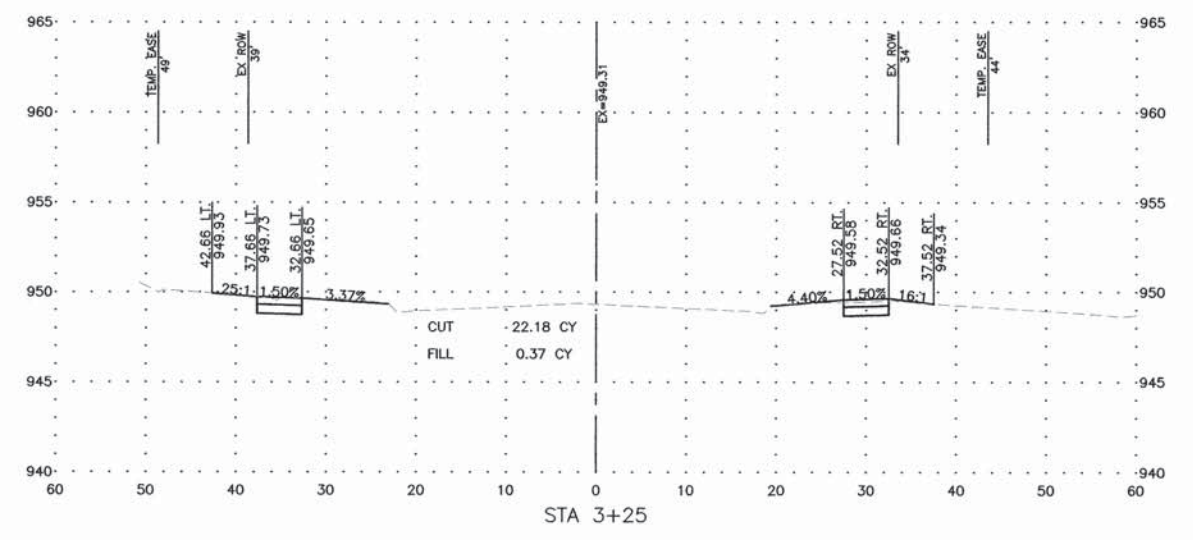
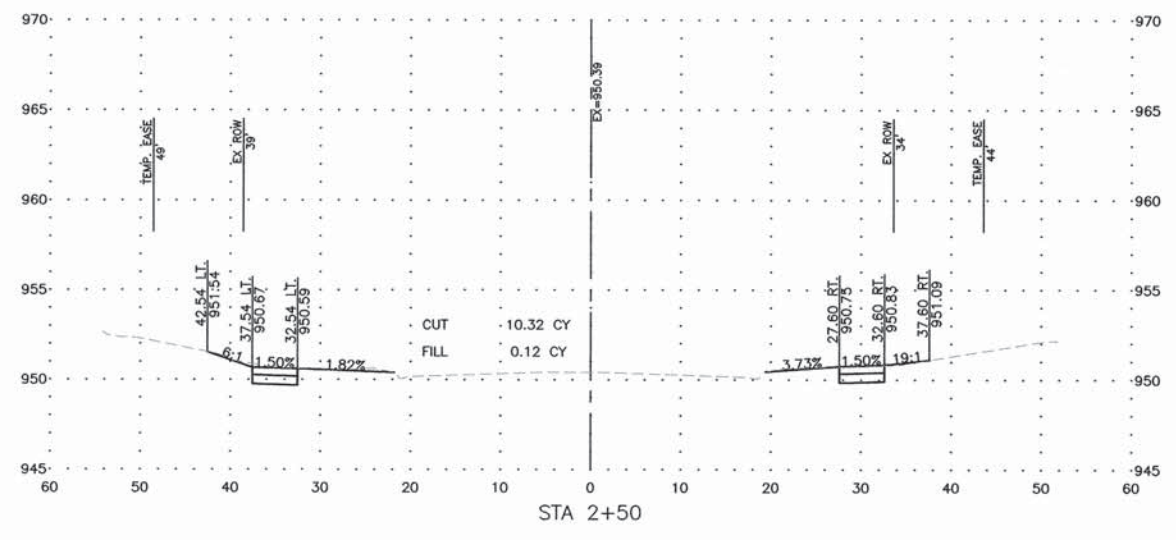


DETAIL K (STA 10+93 LT)
SCALE: 1" = 10'-0"



DETAIL L (STA 10+93 RT)
SCALE: 1" = 10'-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
1901	1902	RAMP RUNNING SLOPE	8.40	0.34	4.05%	0.50%	8.33%	DETAIL J	1901			952.18
1902	1903	LANDING	7.00	0.11	1.57%	0.10%	2.00%	DETAIL J	1902			952.52
1903	1904	LANDING	6.00	0.07	1.17%	0.10%	2.00%	DETAIL J	1903			952.63
1904	1905	LANDING	7.00	0.13	1.86%	0.10%	2.00%	DETAIL J	1904			952.56
1905	1906	RAMP RUNNING SLOPE	7.70	0.33	4.29%	0.50%	8.33%	DETAIL J	1905			952.43
1901	1906	RAMP CROSS SLOPE	6.10	0.08	1.31%	0.10%	2.00%	DETAIL J	1906			952.10
1902	1905	LANDING	6.00	0.09	1.50%	0.10%	2.00%	DETAIL J				
2001	2002	RAMP CROSS SLOPE	10.00	0.05	0.50%	0.10%	2.00%	DETAIL K	2001			952.01
2002	2003	RAMP RUNNING SLOPE	14.20	0.44	3.10%	0.50%	8.33%	DETAIL K	2002			952.06
2003	2004	LANDING	10.00	0.12	1.20%	0.10%	2.00%	DETAIL K	2003			952.50
2004	2001	RAMP RUNNING SLOPE	14.20	0.61	4.30%	0.50%	8.33%	DETAIL K	2004			952.62
2004	2005	LANDING	5.00	0.06	1.20%	0.10%	2.00%	DETAIL K	2005			952.56
2005	2006	LANDING	10.00	0.07	0.70%	0.10%	2.00%	DETAIL K	2006			952.49
2003	2006	LANDING	5.00	0.01	0.20%	0.10%	2.00%	DETAIL K				
2101	2102	RAMP CROSS SLOPE	8.40	0.06	0.71%	0.10%	2.00%	DETAIL L	2101			950.79
2102	2103	RAMP RUNNING SLOPE	5.00	0.40	8.00%	0.50%	8.33%	DETAIL L	2102			950.85
2103	2104	SIDEWALK CROSS SLOPE	7.00	0.11	1.57%	0.50%	2.00%	DETAIL L	2103			951.25
2104	2105	RAMP RUNNING SLOPE	5.00	0.40	8.00%	0.50%	8.33%	DETAIL L	2104			951.36
2105	2106	LANDING	8.50	0.06	0.71%	0.10%	2.00%	DETAIL L	2105			950.96
2106	2107	RAMP RUNNING SLOPE	5.00	0.40	8.00%	0.50%	8.33%	DETAIL L	2106			950.90
2107	2108	SIDEWALK CROSS SLOPE	7.00	0.11	1.57%	0.50%	2.00%	DETAIL L	2107			951.30
2108	2101	RAMP RUNNING SLOPE	5.00	0.40	8.00%	0.50%	8.33%	DETAIL L	2108			951.19
2102	2105	LANDING	7.00	0.11	1.57%	0.10%	2.00%	DETAIL L	2109			951.27
2101	2106	LANDING	7.00	0.11	1.57%	0.10%	2.00%	DETAIL L	2110			951.38
2108	2109	LANDING	5.00	0.08	1.60%	0.10%	2.00%	DETAIL L	2111			951.44
2109	2110	LANDING	7.00	0.11	1.57%	0.10%	2.00%	DETAIL L	2112			951.33
2110	2107	LANDING	5.00	0.08	1.60%	0.10%	2.00%	DETAIL L				
2103	2112	LANDING	5.00	0.08	1.60%	0.10%	2.00%	DETAIL L				
2112	2111	LANDING	7.00	0.11	1.57%	0.10%	2.00%	DETAIL L				
2111	2104	LANDING	5.00	0.08	1.60%	0.10%	2.00%	DETAIL L				



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LENA, IL 61048

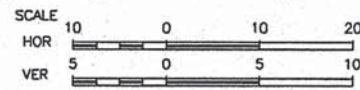
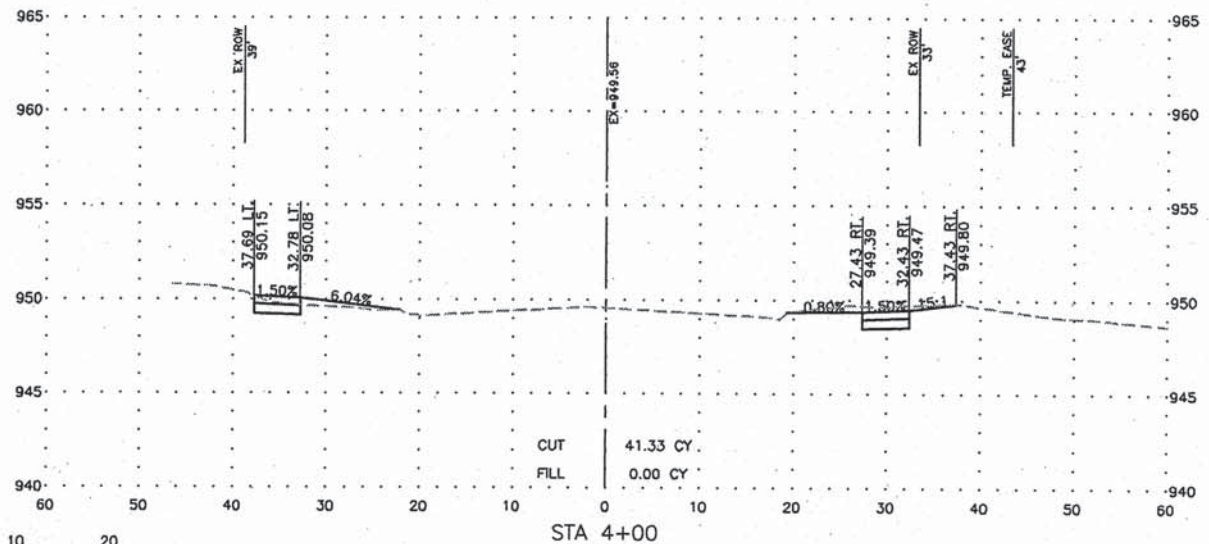
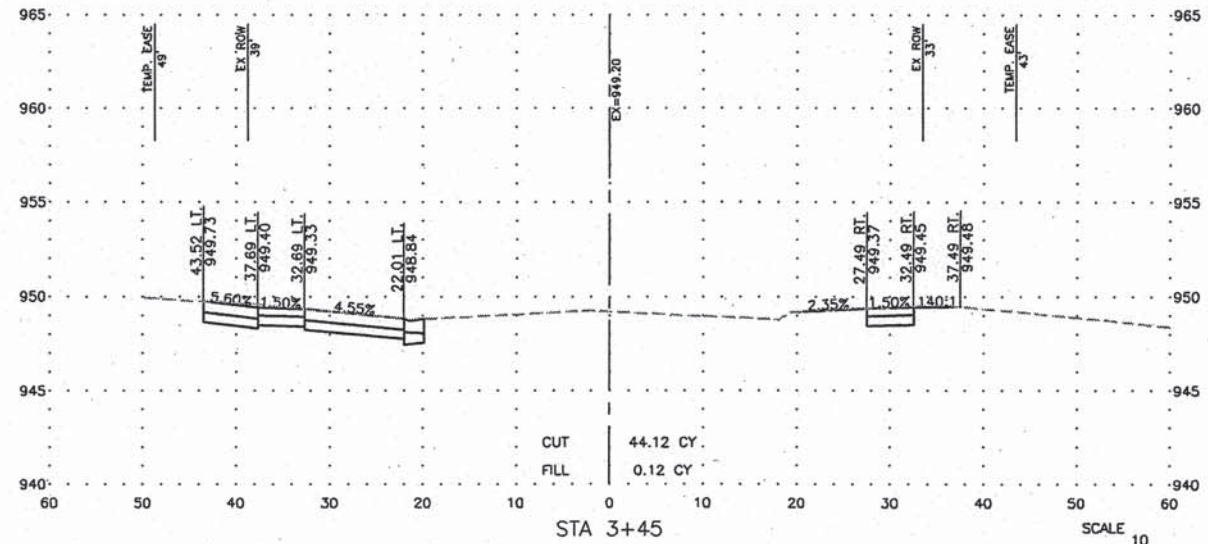
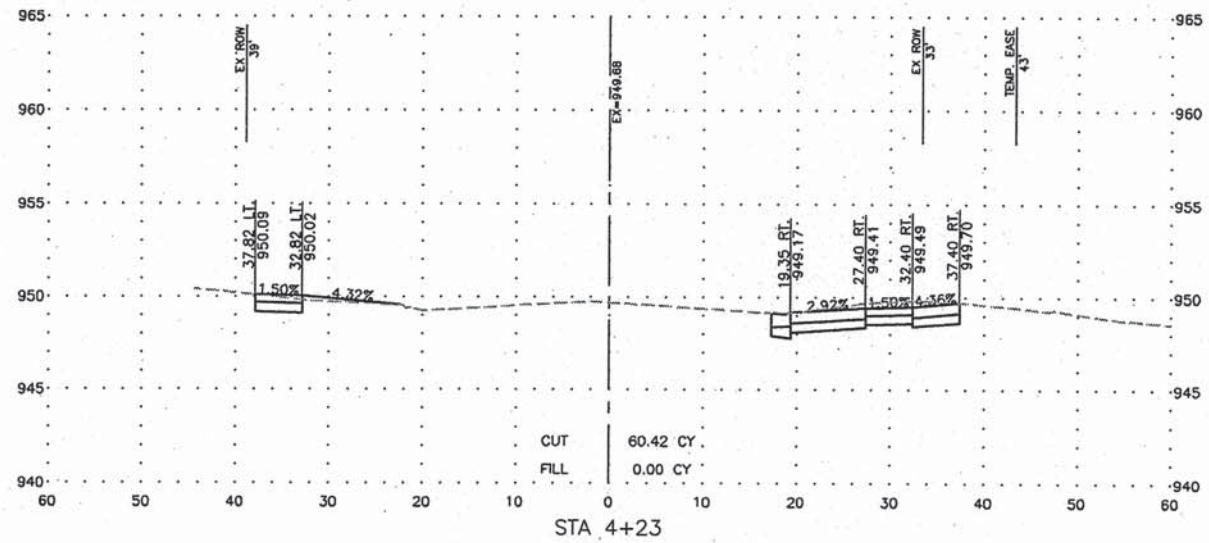
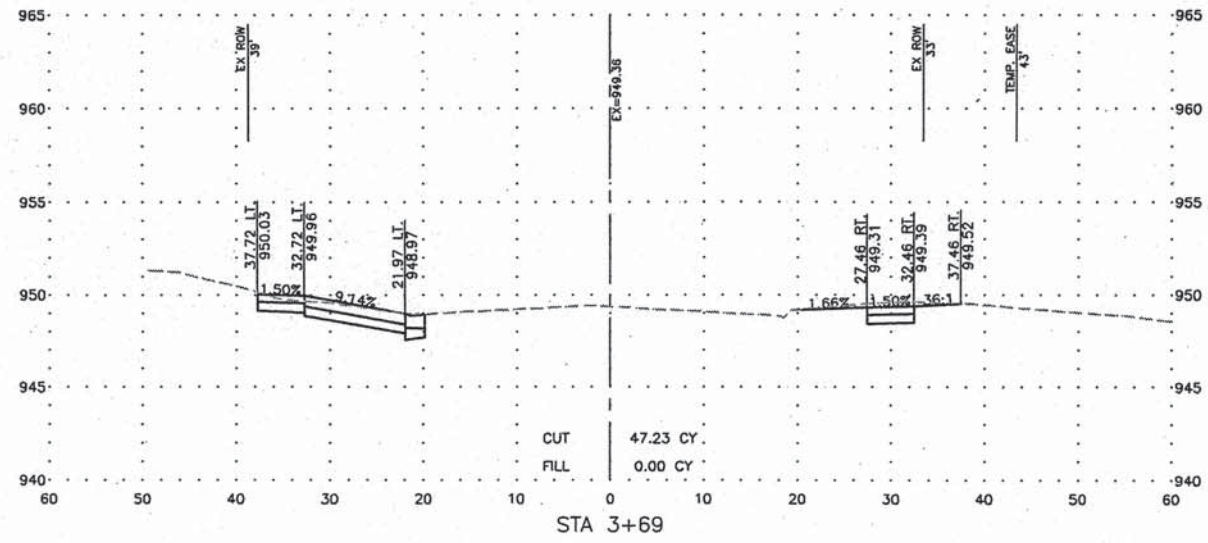
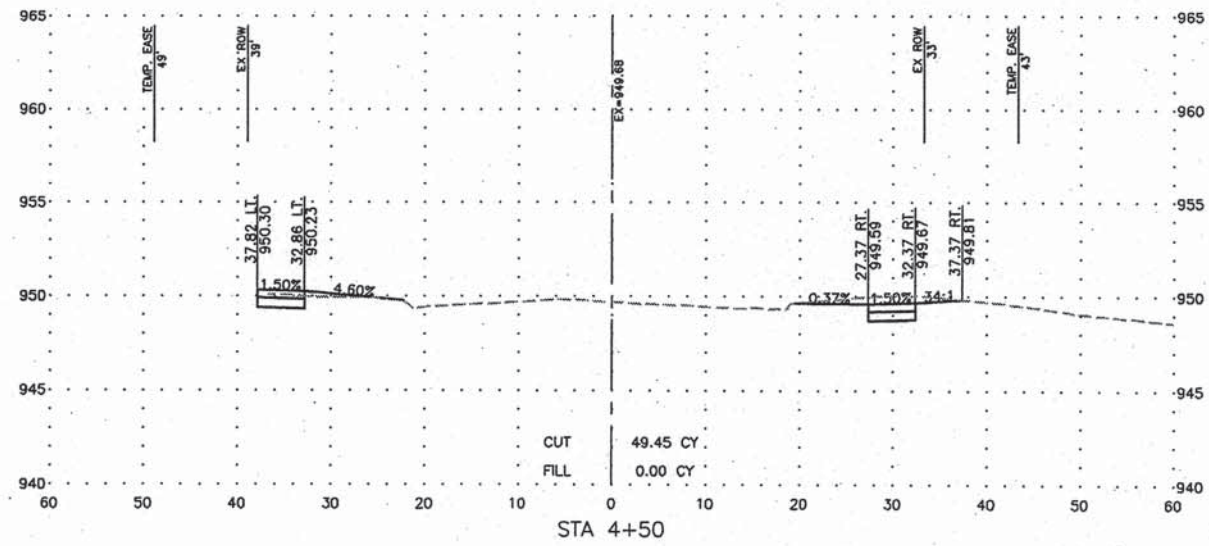
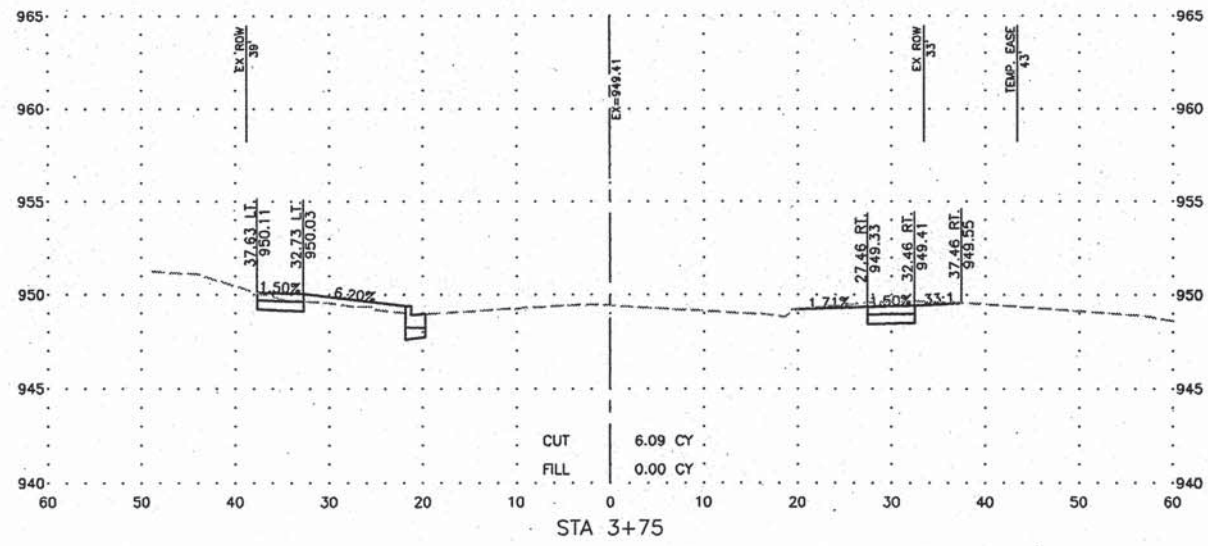
PROJECT AND LOCATION:
SAFE ROUTES TO SCHOOL
PROJECT CITY, PROJECT STATE

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DATE: 03/02/16
SCALE: HOR
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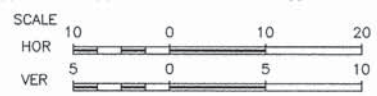
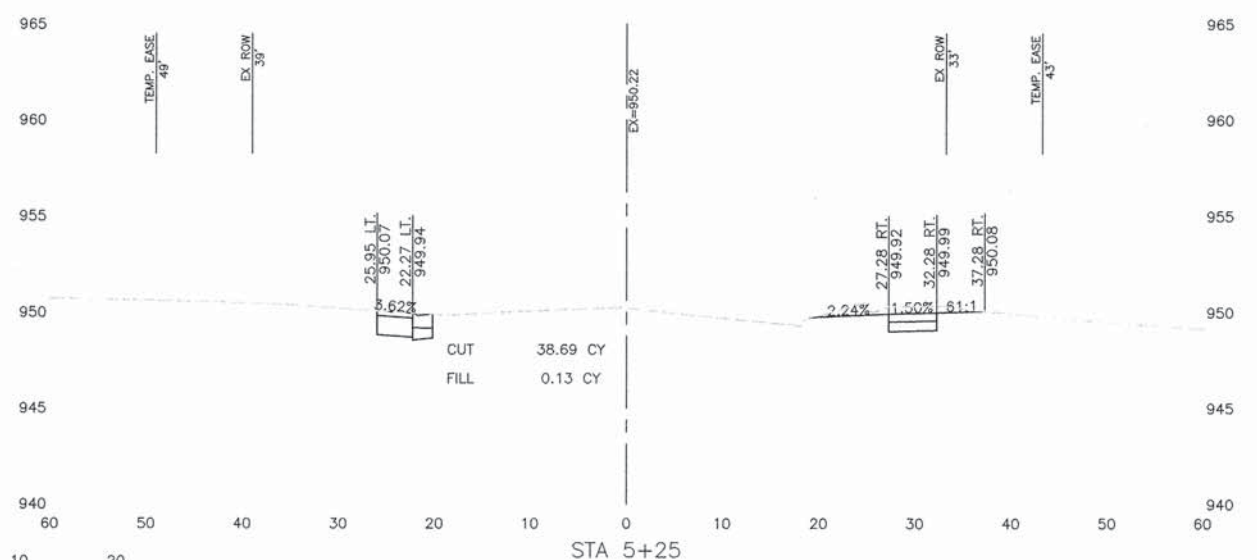
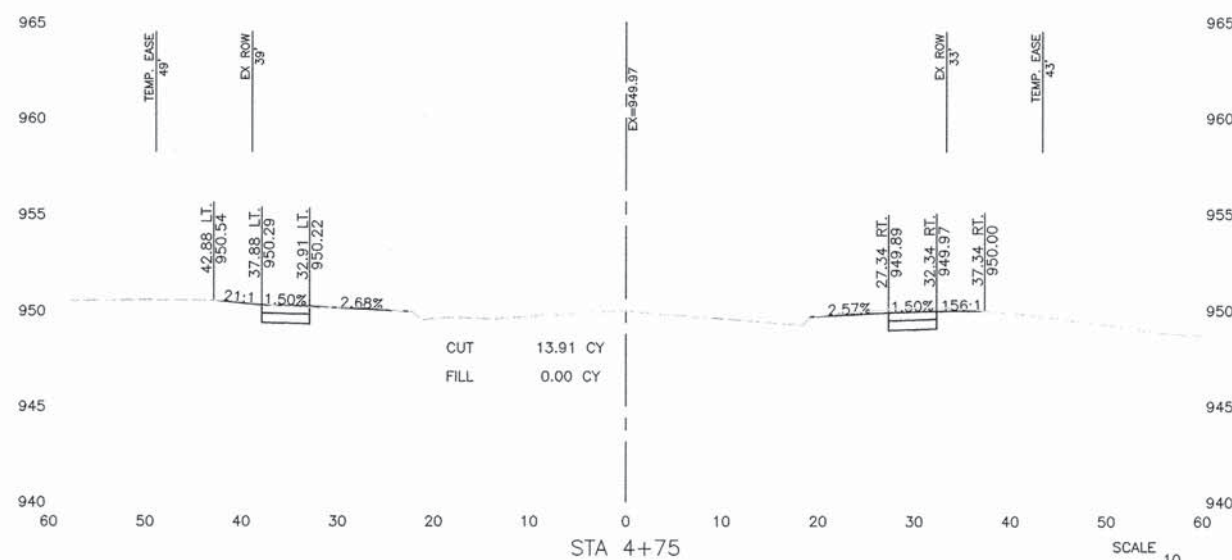
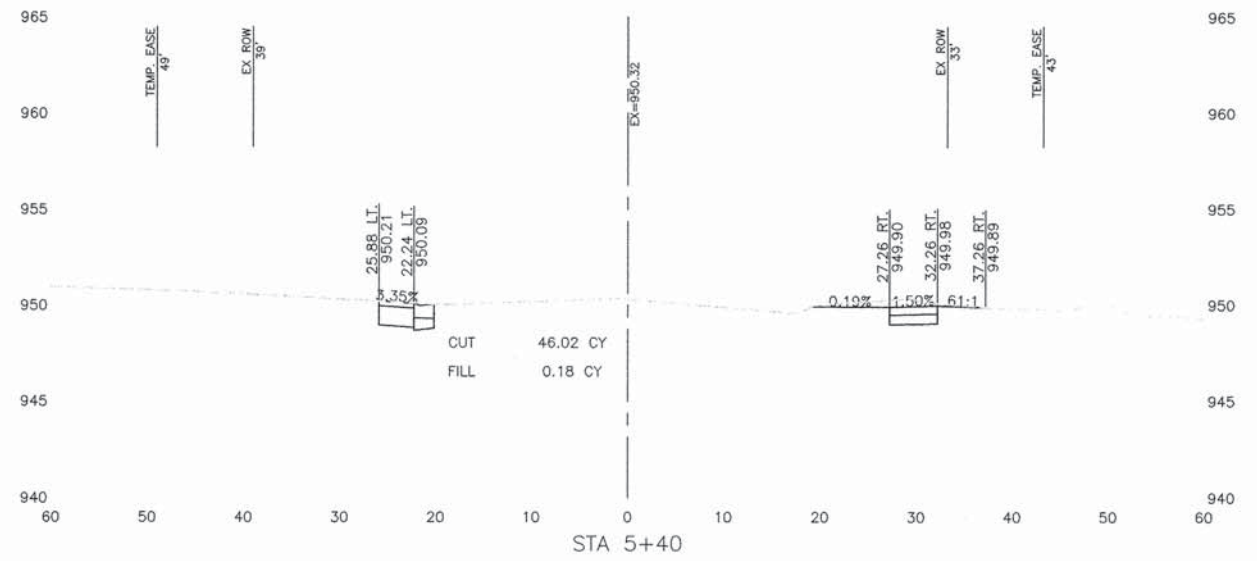
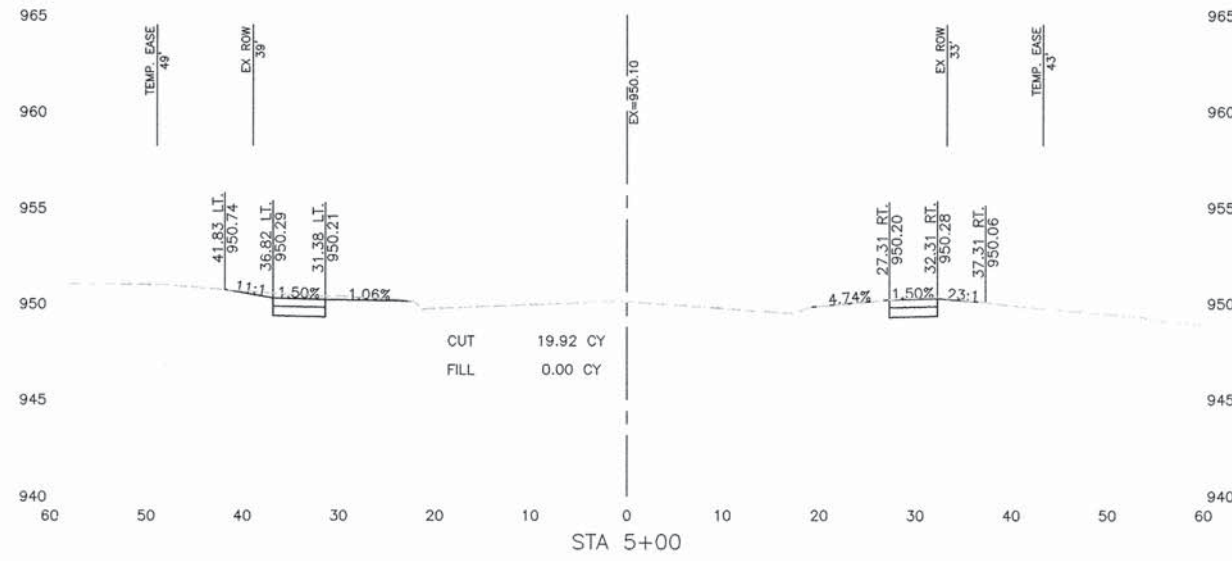
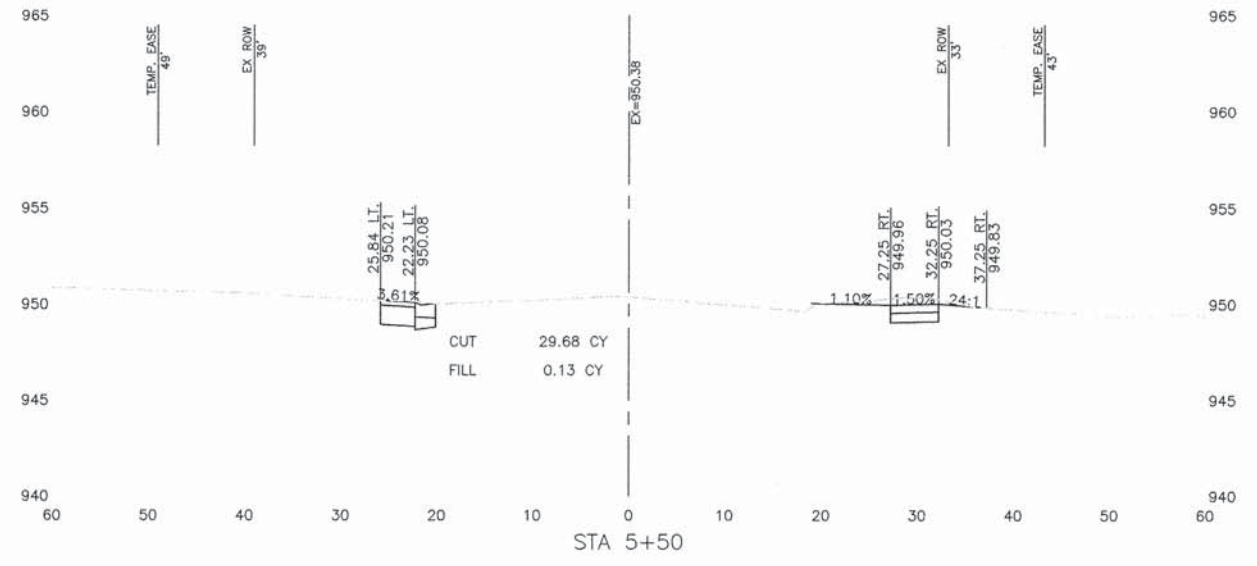
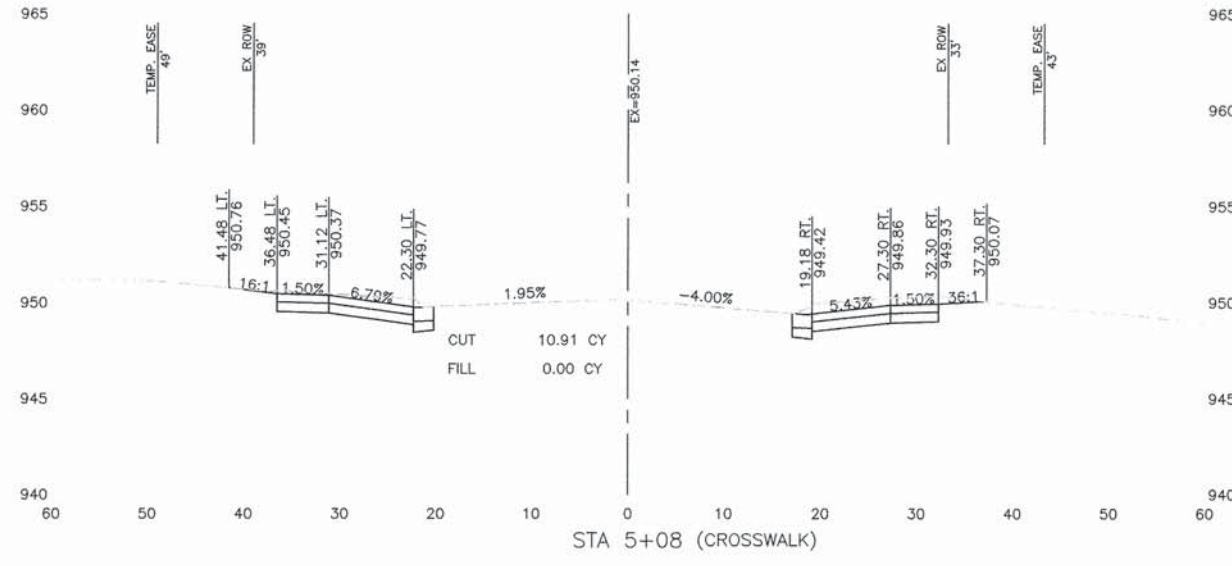
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CROSS SECTIONS STA 2+00 TO 3+25

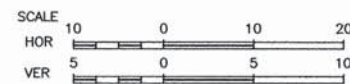
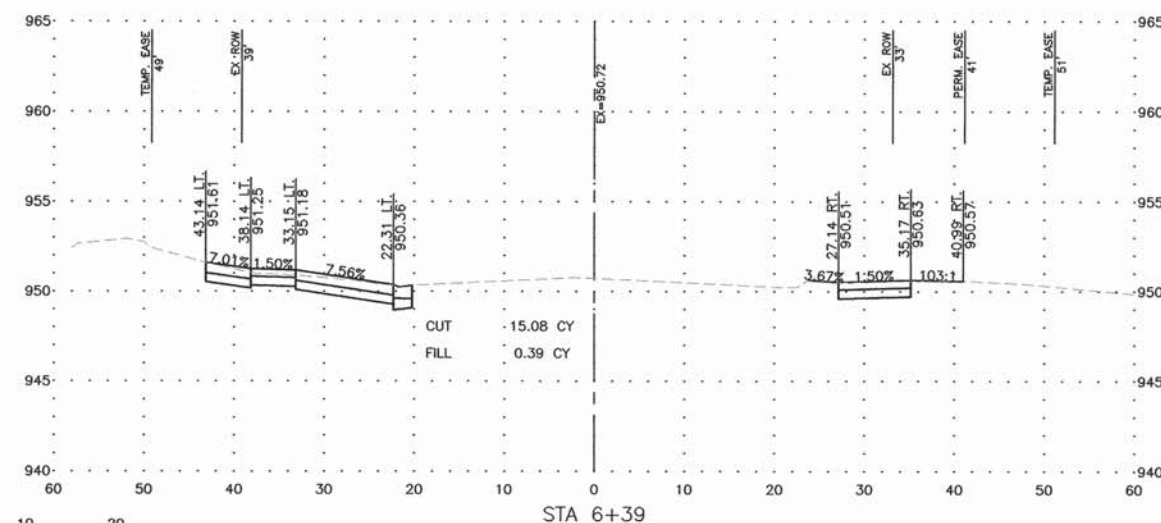
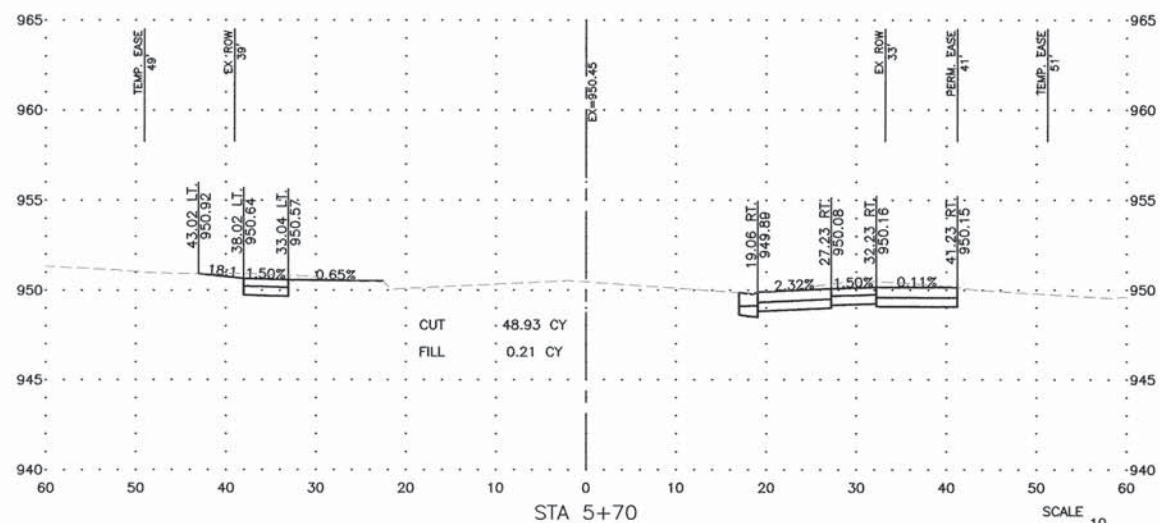
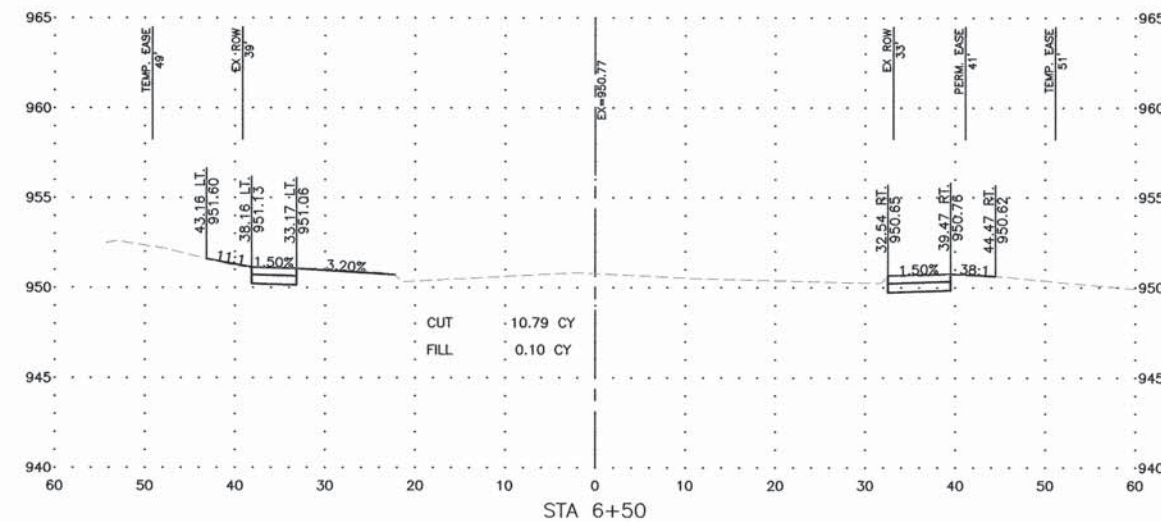
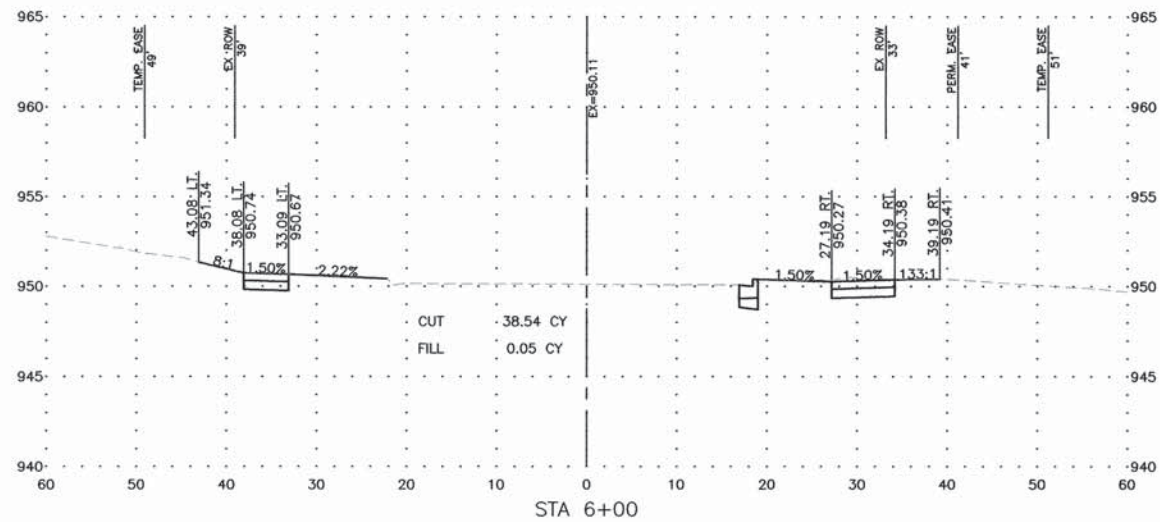
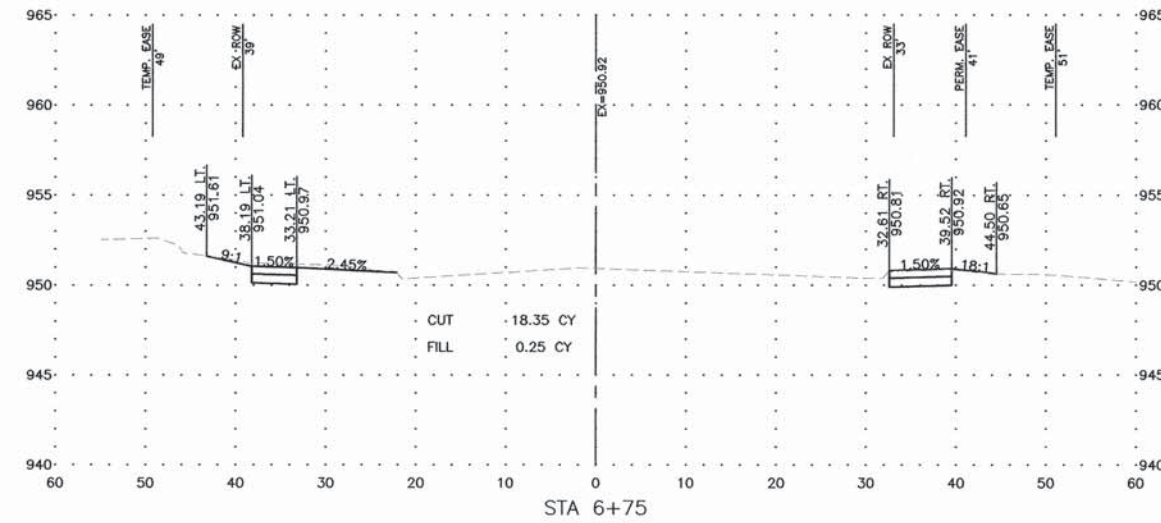
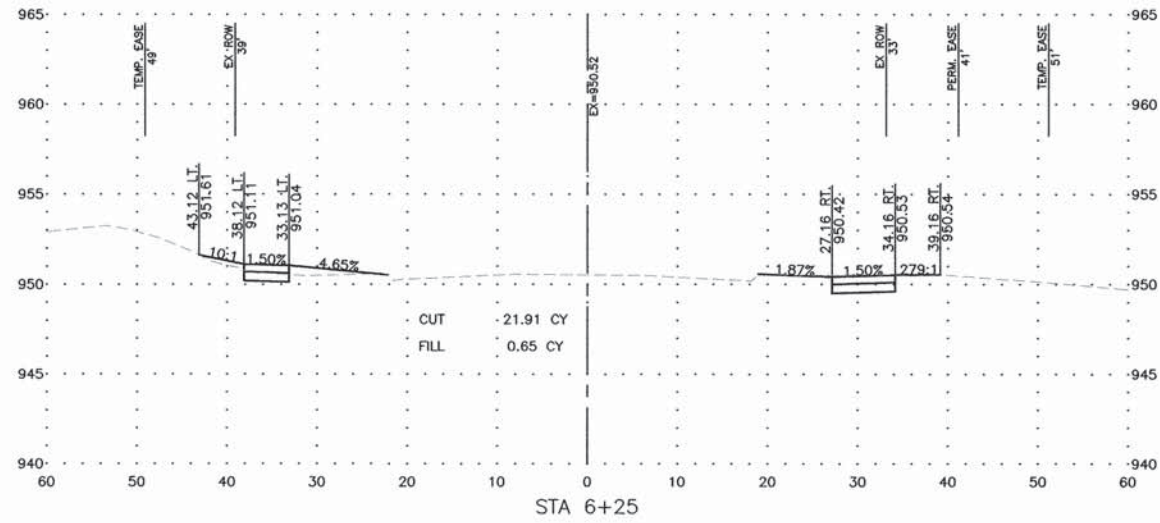
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122 EAST MAIN STREET
LENA, IL 61048

PROJECT AND LOCATION:
SAFE ROUTES TO SCHOOL
PROJECT CITY, PROJECT STATE

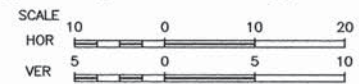
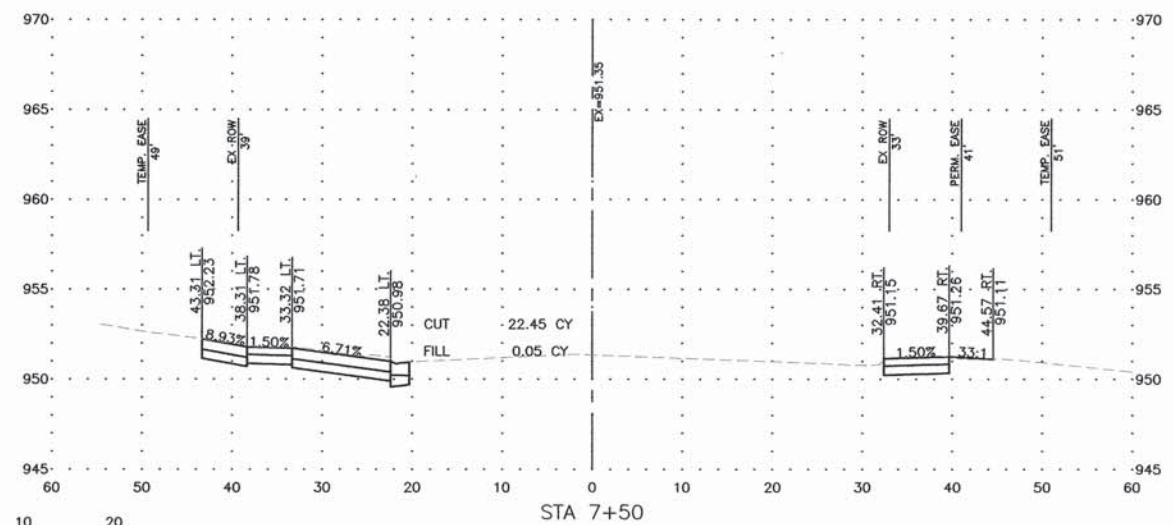
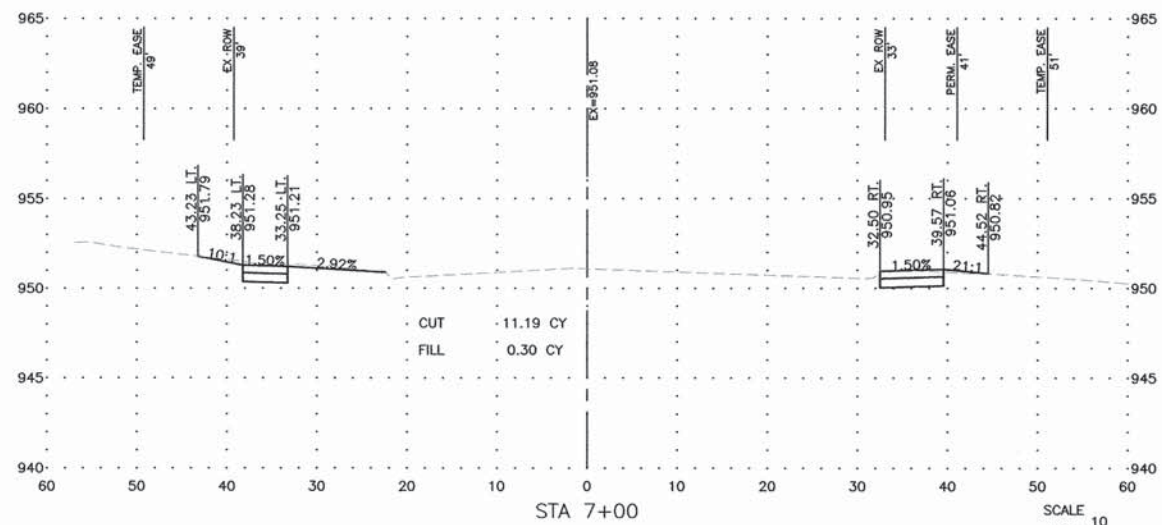
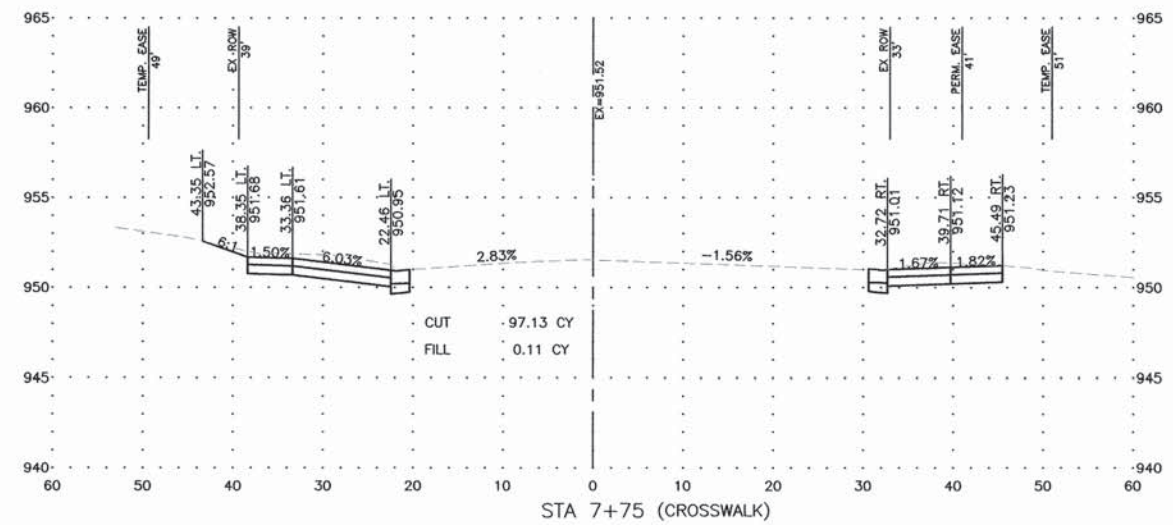
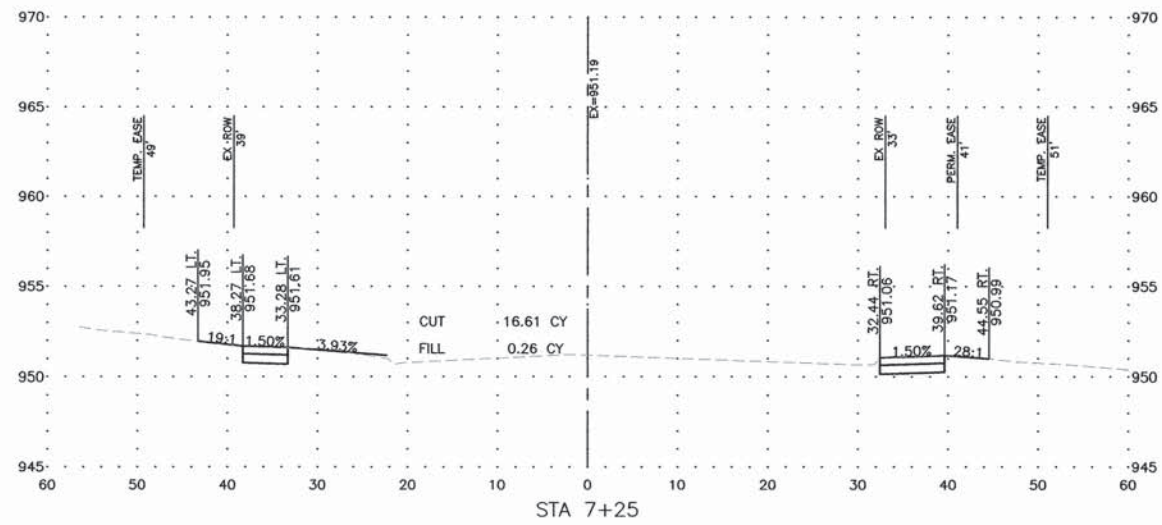
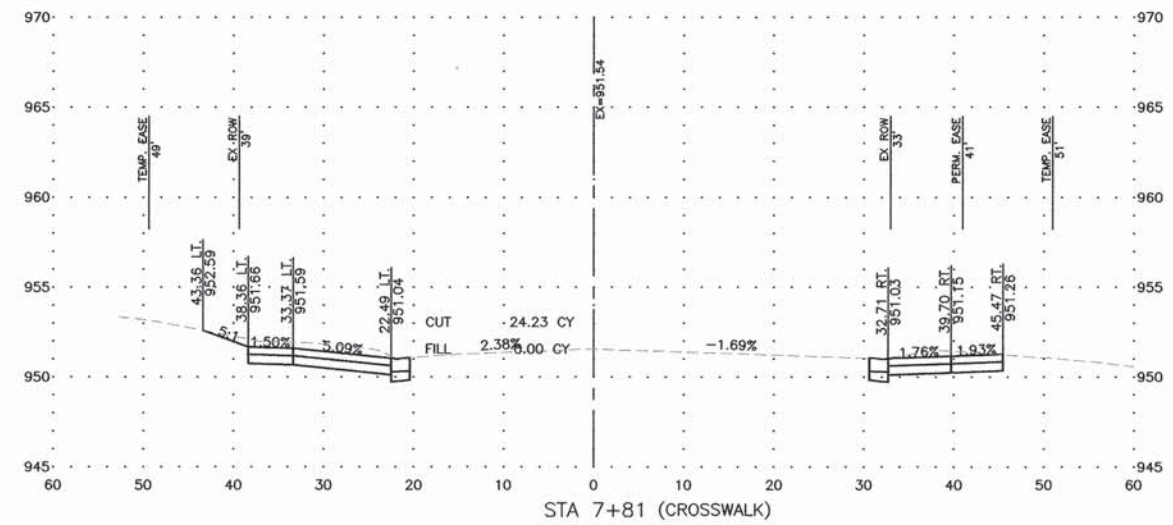
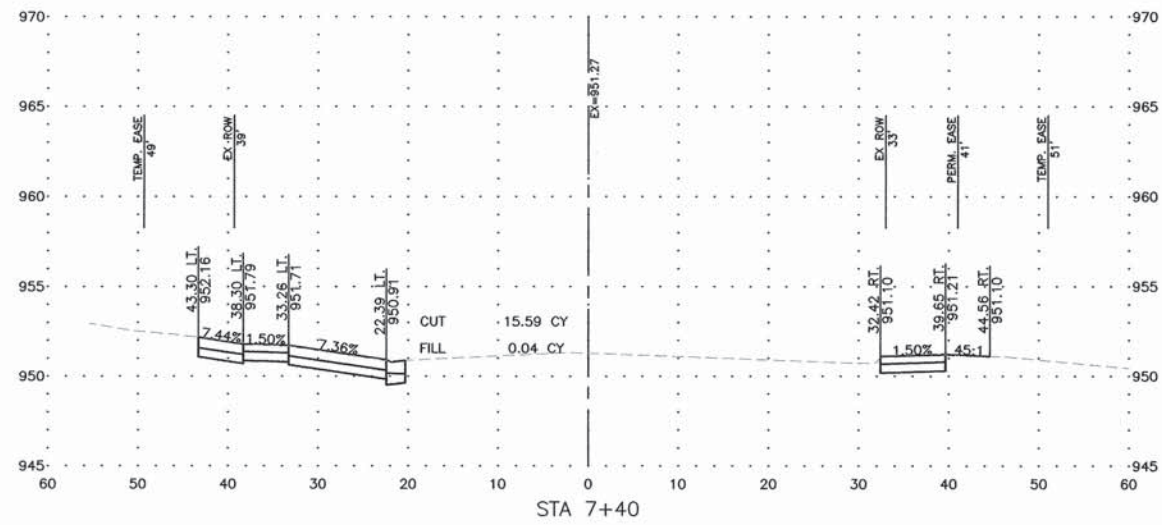
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CROSS SECTION STA 5+70 TO 6+75

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LENA, IL 61048

PROJECT AND LOCATION:
SAFE ROUTES TO SCHOOL
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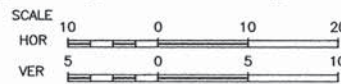
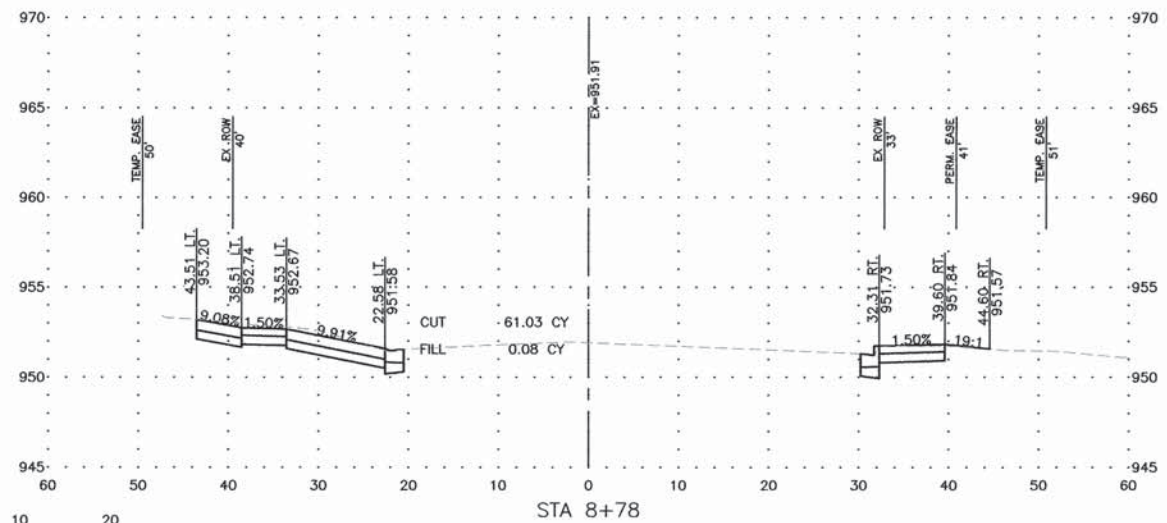
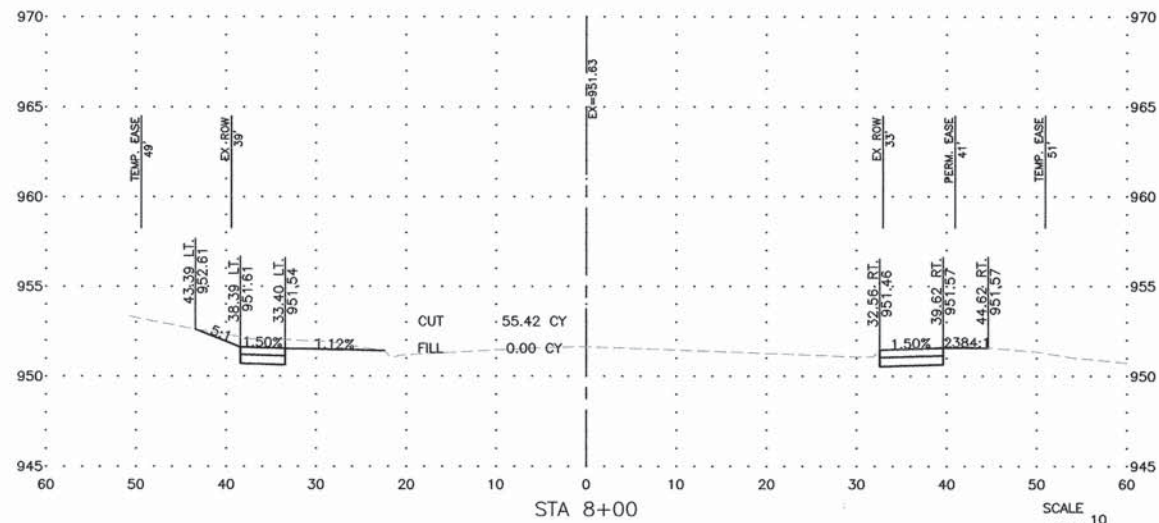
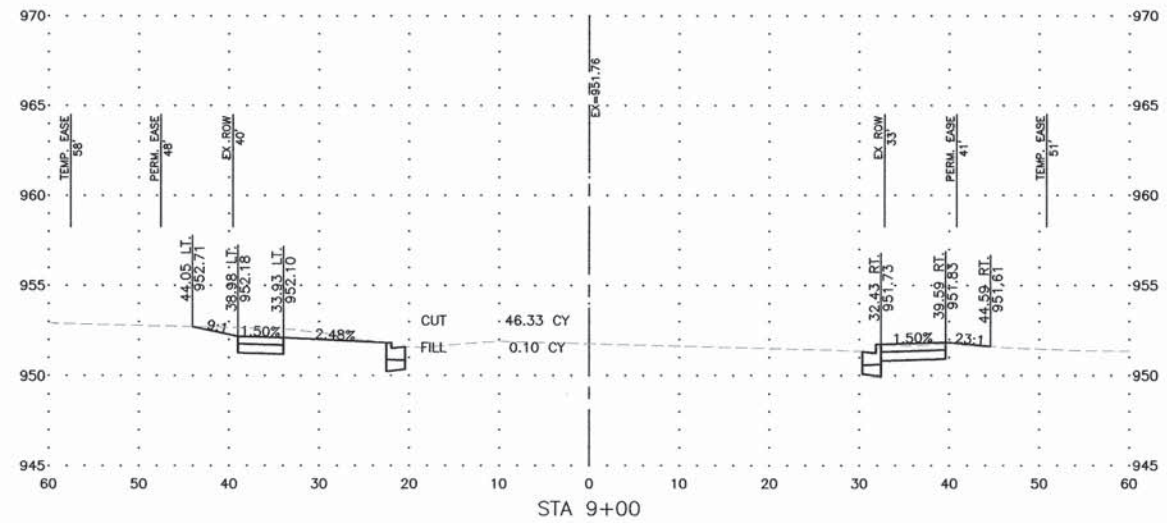
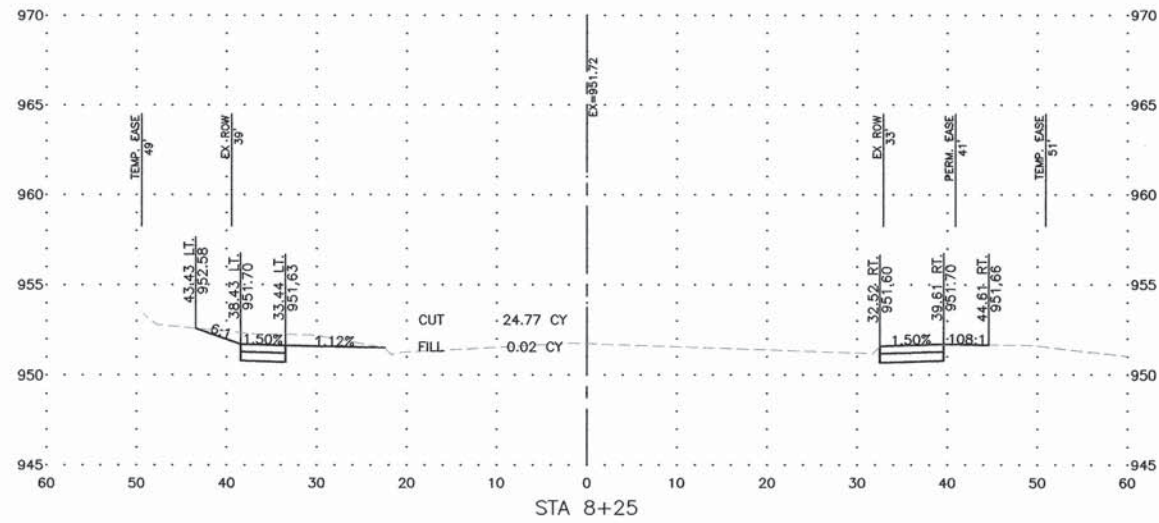
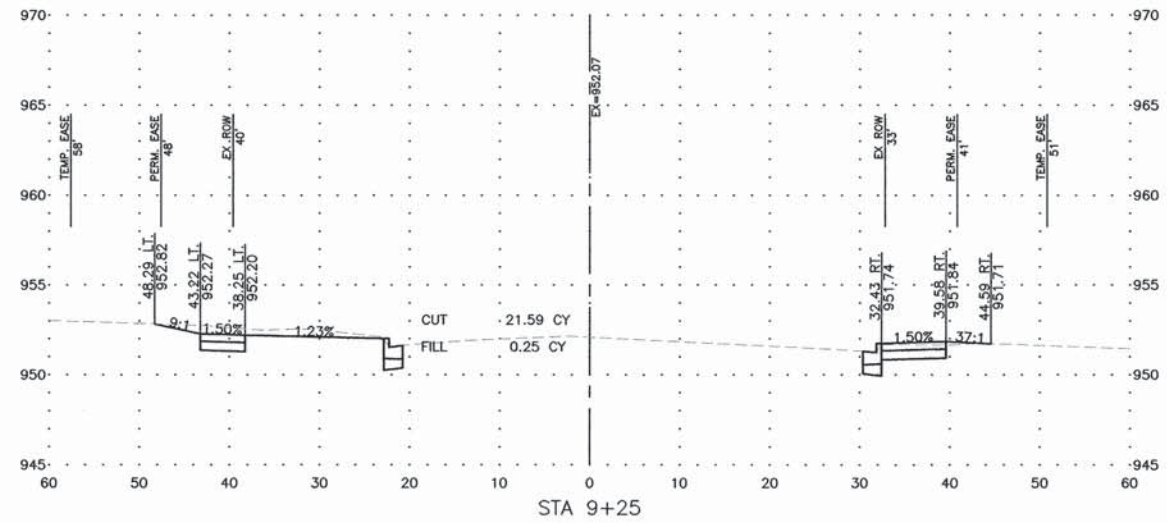
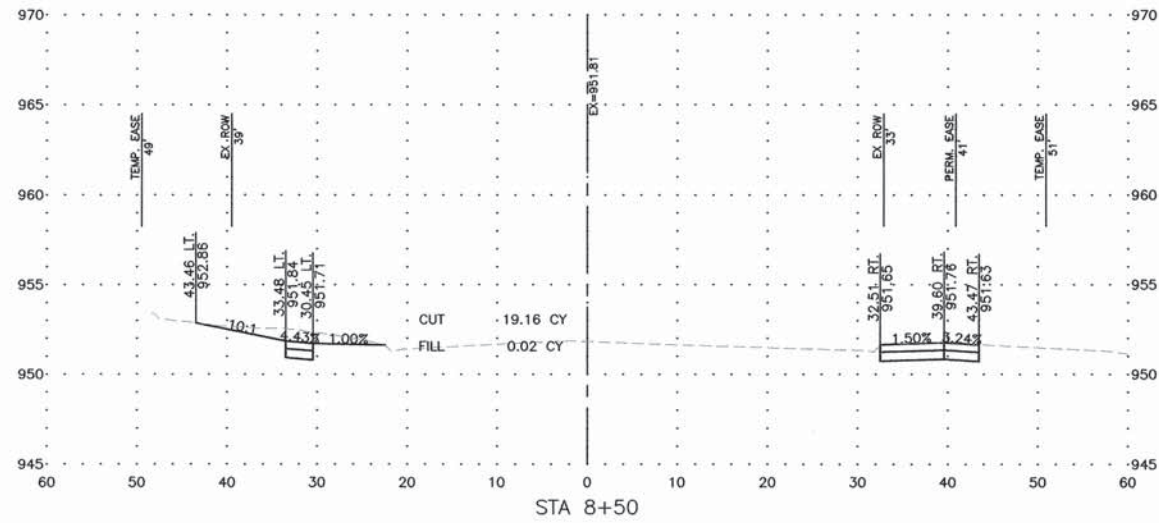
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REV. NO.	DESCRIPTION	DATE

DRAWING:
CROSS SECTION STA 7+00 TO 7+81

JOB NUMBER:
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LENA, IL 61048

PROJECT AND LOCATION:
SAFE ROUTES TO SCHOOL
PROJECT CITY, PROJECT STATE

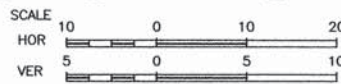
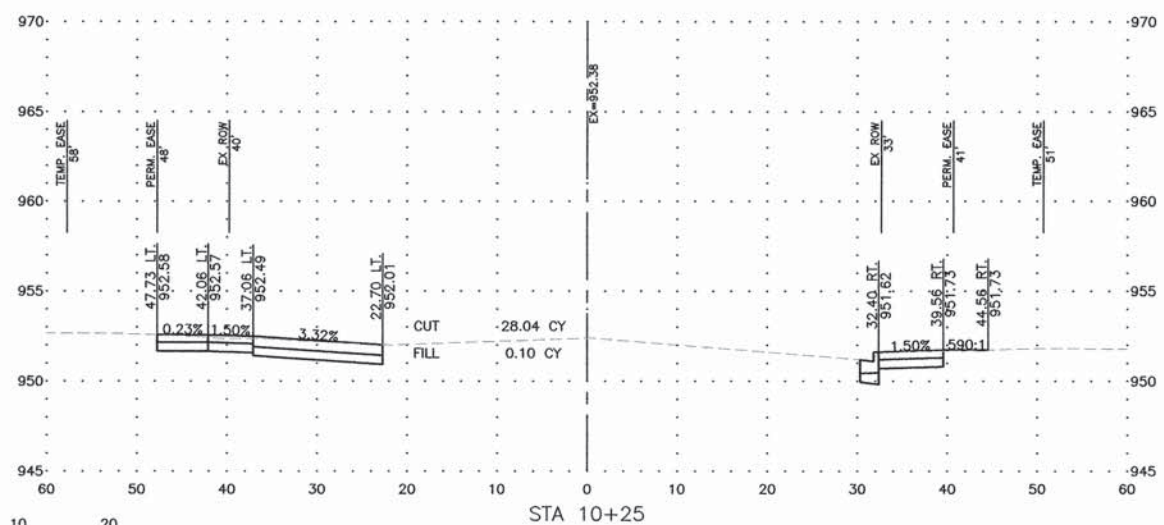
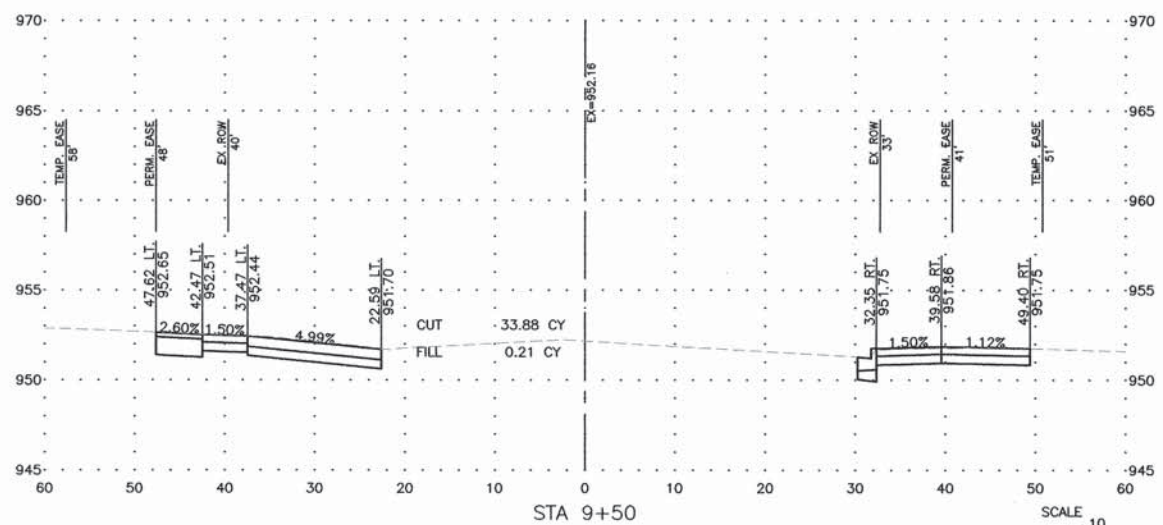
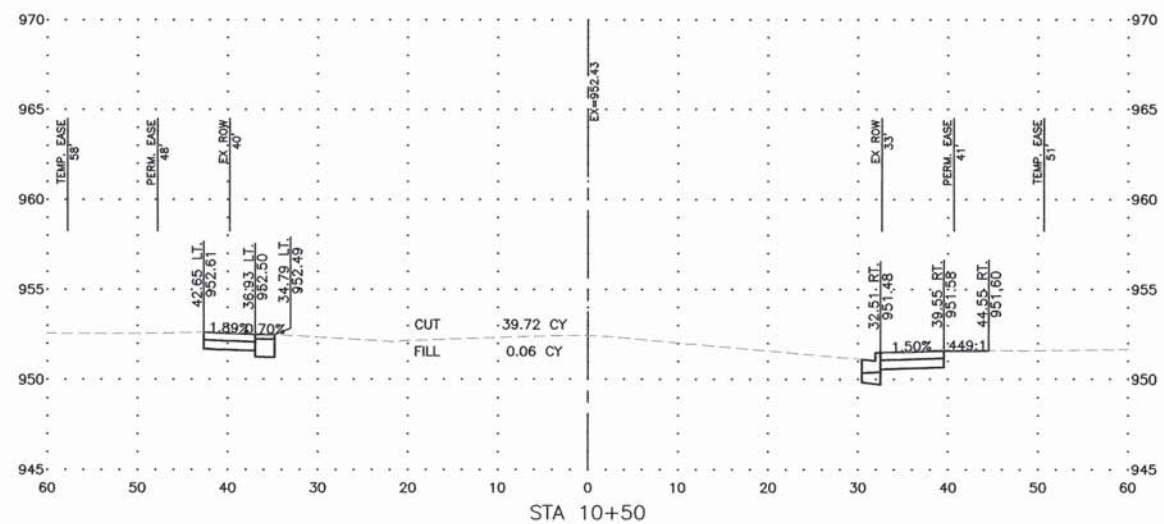
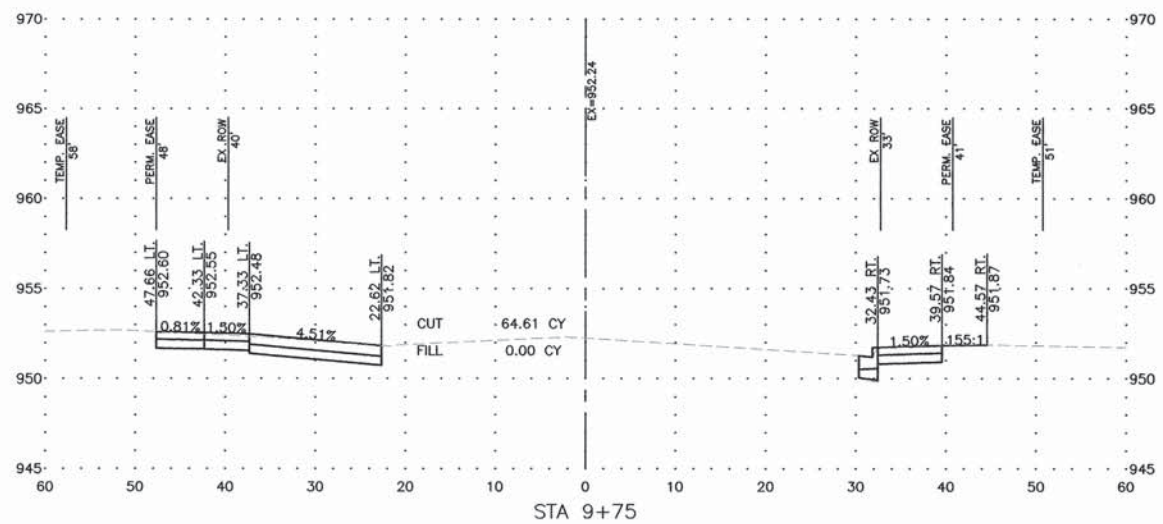
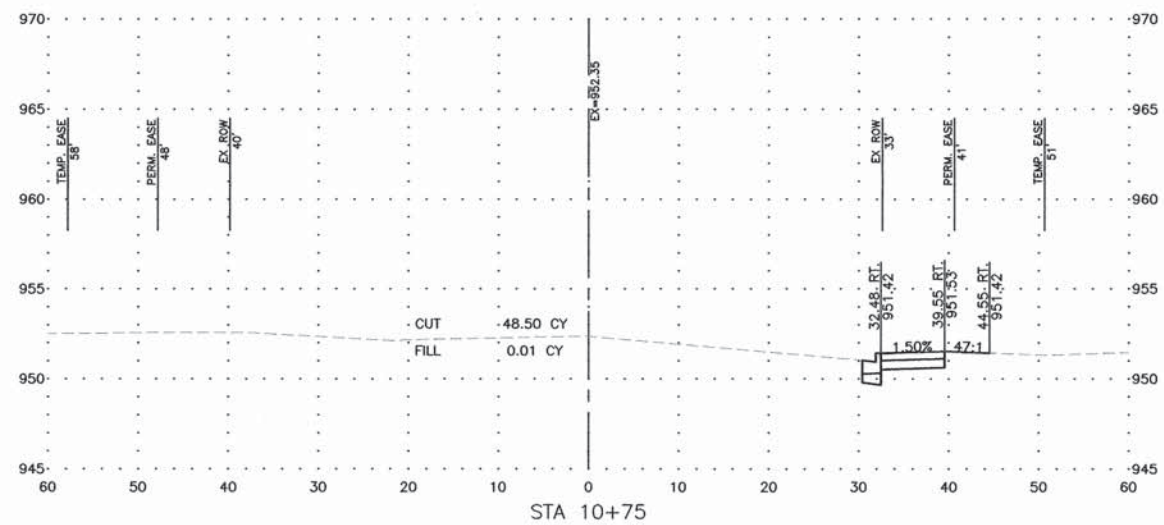
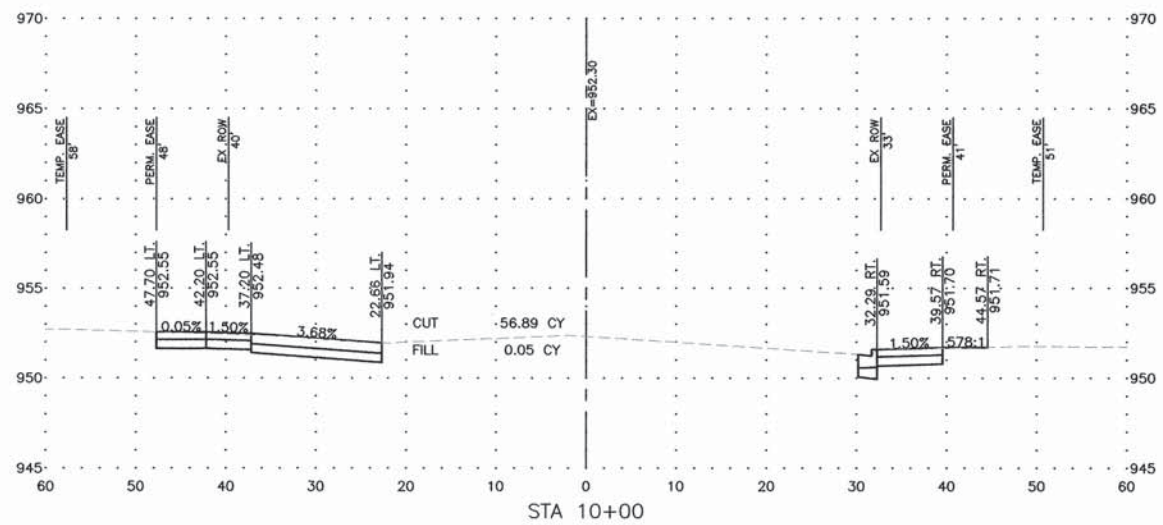
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DRAWING:
CROSS SECTION STA 8+00 TO 9+25

JOB NUMBER:
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122 EAST MAIN STREET
LENA, IL 61048

PROJECT AND LOCATION:
SAFE ROUTES TO SCHOOL
PROJECT CITY, PROJECT STATE

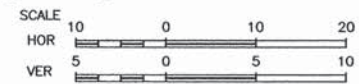
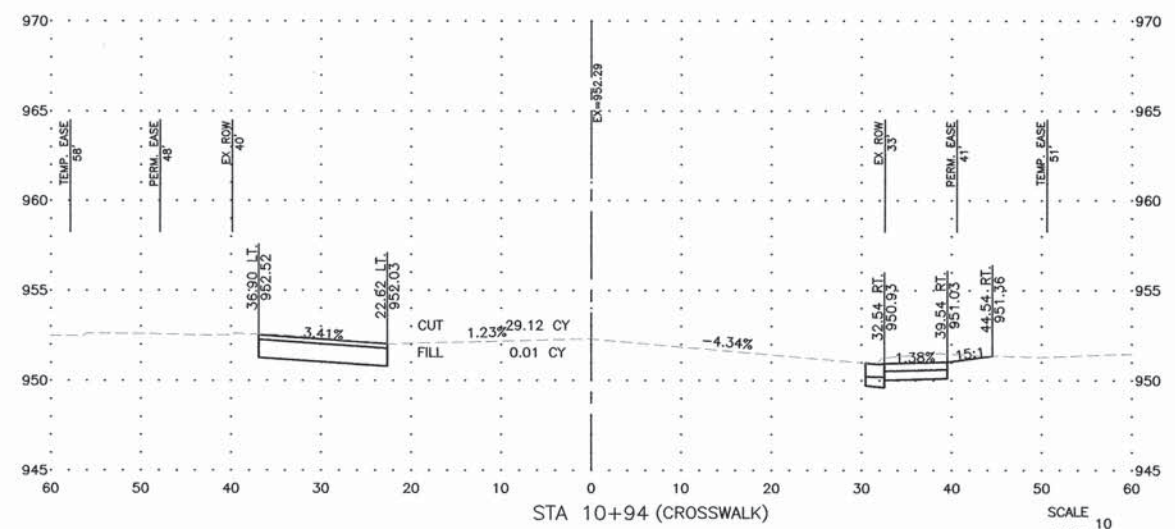
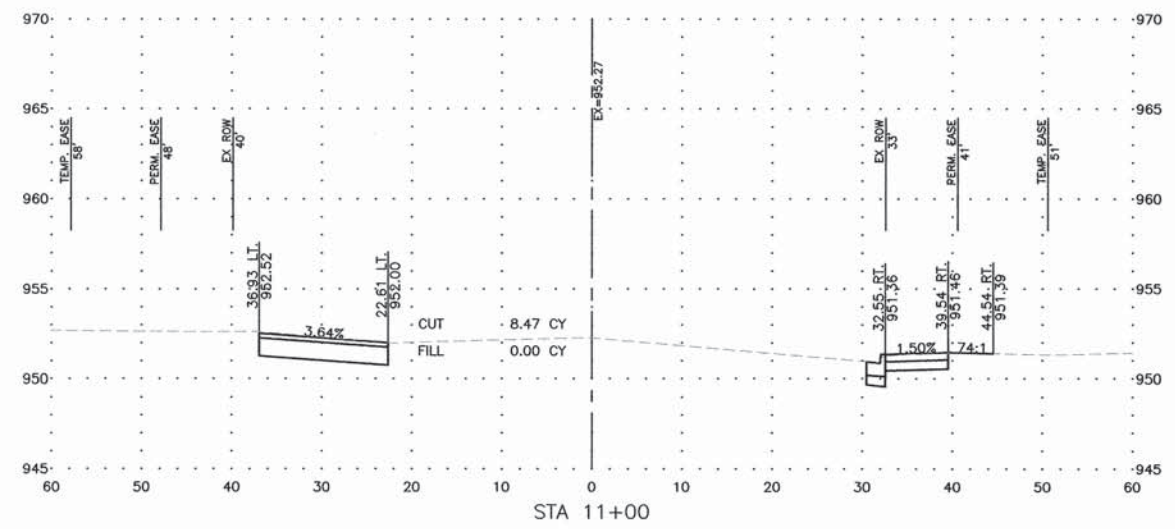
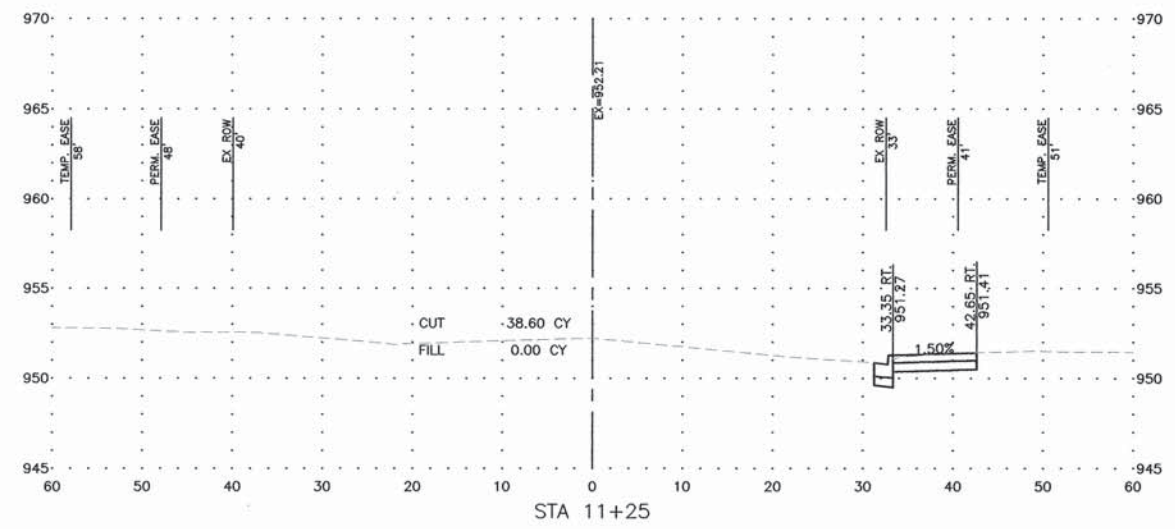
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REV. NO.	DESCRIPTION	DATE

DRAWING:
CROSS SECTION STA 9+50 TO 10+75

JOB NUMBER:
14-830

SHEET NUMBER:
27 of 31



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:
SAFE ROUTES TO SCHOOL
PROJECT CITY, PROJECT STATE

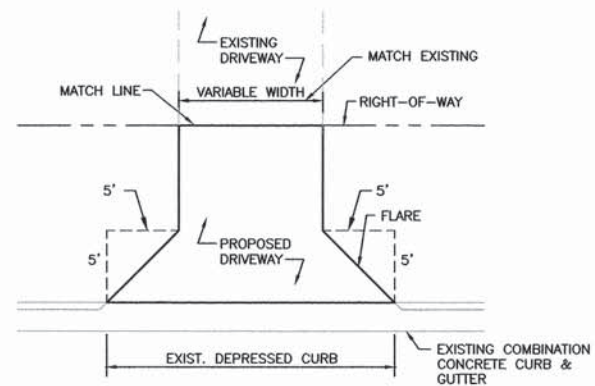
DRAWN BY: BKI
APPROVED BY: PDE
DATE: 03/02/16
SCALE: HOR
VERT

REVISIONS		
REV. NO.	DESCRIPTION	DATE

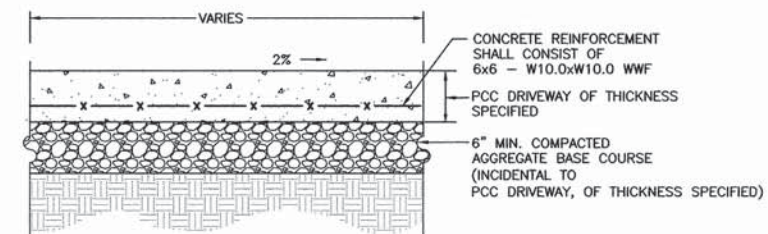
DRAWING:
CROSS SECTION STA 10+94 TO 11+25

JOB NUMBER:
14-830

SHEET NUMBER:
28 of 31

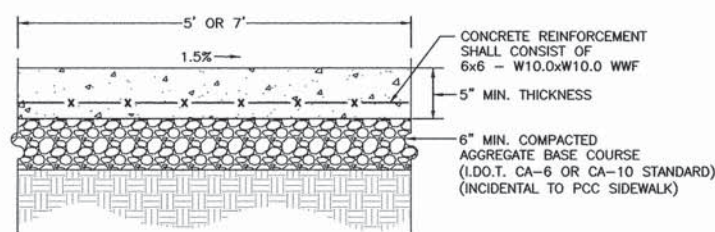


DRIVE APPROACH DETAIL
N.T.S.



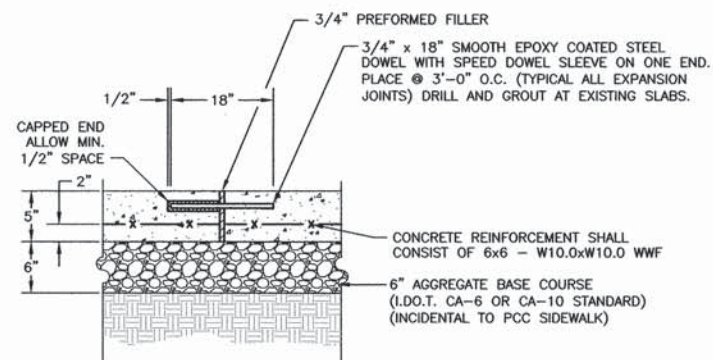
CONTROL JOINTS SHALL BE PLACED EVERY 5'.
CONCRETE SHALL MEET IDOT CLASS SI SPECIFICATION.

PCC DRIVEWAY PAVEMENT DETAIL
N.T.S.

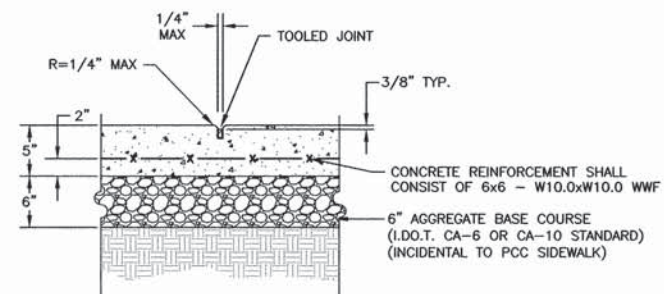


NOTE:
CONTROL JOINTS SHALL BE PLACED EVERY 5'.
CONCRETE SHALL MEET IDOT CLASS SI SPECIFICATION.
ALL EXCAVATION NECESSARY FOR CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO THE PCC SIDEWALK, 5".

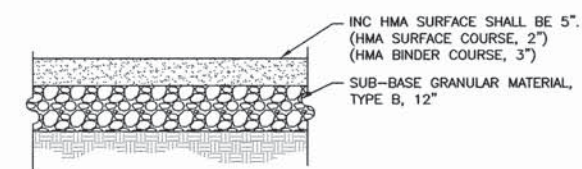
PCC SIDEWALK DETAIL
N.T.S.



SIDEWALK AND EXPANSION JOINT DETAIL
N.T.S.

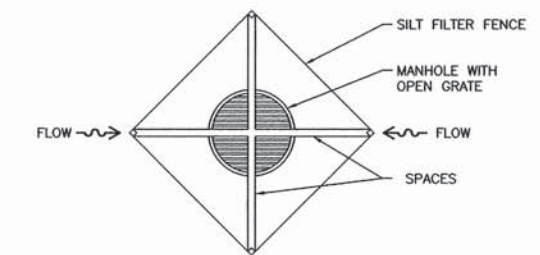


SIDEWALK TOOLED JOINT DETAIL
N.T.S.

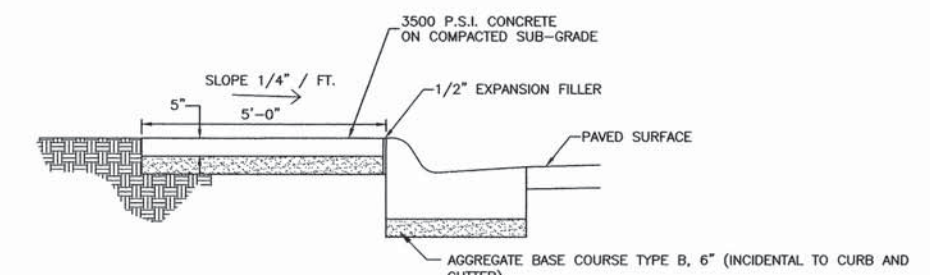


INCIDENTAL HMA SURFACE DETAIL
N.T.S.

REVISIONS		
REV. NO.	DESCRIPTION	DATE



INLET PROTECTION
N.T.S.







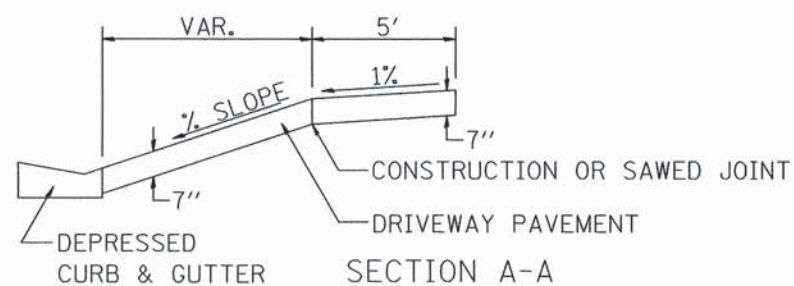
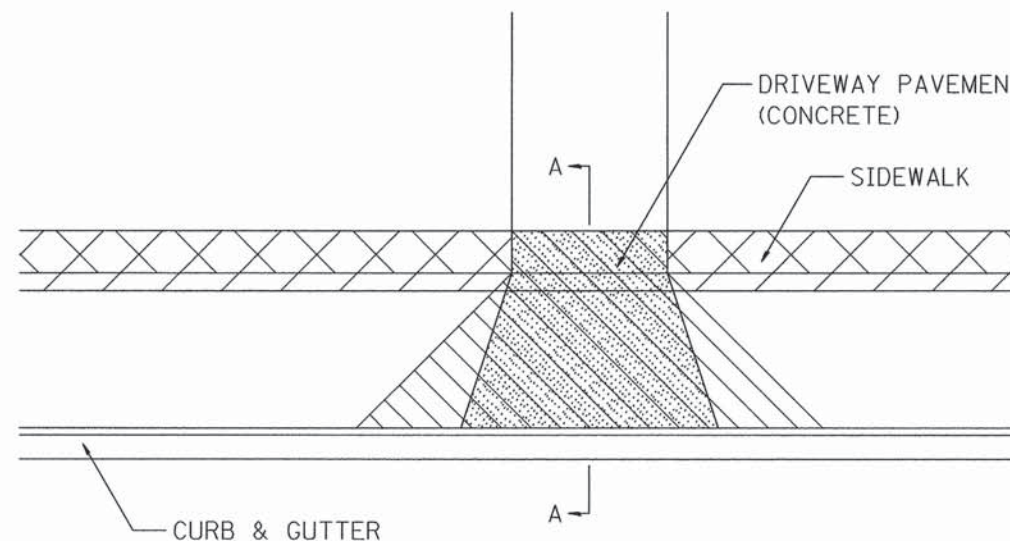
NOTES: SIDEWALK SHALL BE CONSTRUCTED OF 3500 PSI CONCRETE TO A MINIMUM THICKNESS OF 5".
1/2" BITUMINOUS EXPANSION JOINTS AT 30'-0" O.C. AND SCORE JOINTS AT 6'-0" O.C. UNLESS OTHERWISE NOTED.
1/2" BITUMINOUS EXPANSION JOINT ALONG BACK OF SIDEWALK WHEN IT ABUTS BUILDING AND AT LOCATIONS OF EXISTING CONCRETE PAVING.

SIDEWALK/CURB AND GUTTER DETAIL
N.T.S.

REVISIONS		
REV. NO.	DESCRIPTION	DATE

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.

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

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

REGION 2 / DISTRICT 2 STANDARD

SCALE: 1.0000' / in. SHEET NO. OF SHEETS STA. TO STA.

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

SIDEWALK AND DRIVEWAY PAVEMENT PAY AREAS

35.4

FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

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LENA, IL

DRAWN BY: BKJ
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SCALE: HOR

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
DISTRICT 2 STANDARD DETAIL 35.4

G:\C30\14\14-830\14-830 Plans.dwg, Standard Details (3)

JOB NUMBER:
14-830

SHEET NUMBER:
31 of 31