292 + 3 = 295

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	~~292~~	001
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

08-05-11 LETTING ITEM 066

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS AND LIST OF STANDARDS, SEE SHEET 2

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU ROUTE 0085 (WALKUP ROAD /CRYSTAL LAKE ROAD)

SECTION: 00–00246–02–FP

PROJECT: CMM–M-9003(496)

PROJECT LOCATION: WALKUP ROAD FROM IL RTE 176 TO BULL VALLEY ROAD

PAVEMENT RECONSTRUCTION, WIDENING AND RESURFACING, TRAFFIC SIGNAL MODERNIZATION AND BIKE PATH CONSTRUCTION

CITY OF CRYSTAL LAKE, VILLAGE OF BULL VALLEY, AND CITY OF MCHENRY

MCHENRY COUNTY

C–91–102–10

DESIGN DESIGNATION:

IL RTE 176: 2300(27) STRATEGIC REGIONAL ARTERIAL 8.11 (FD-30)
WALKUP ROAD: MINOR ARTERIAL

TRAFFIC DATA:

WALKUP ROAD: 2004 ADT=11,700-16,350
2027 ADT=14,650-18,750
IL RTE 176: 2004 ADT=14,500-14,800
2027 ADT=19,000-20,350

POSTED SPEED LIMIT:

WALKUP ROAD/AVENUE: 30 MPH FROM SOUTH PROJECT LIMIT TO TALISMON DRIVE
40 MPH FROM TALISMON DRIVE TO PLEASANT HILL ROAD
45 MPH FROM PLEASANT HILL ROAD TO SOUTH OF RAINTREE DRIVE
50 MPH FROM SOUTH OF RAINTREE DRIVE TO NORTH PROJECT LIMIT
IL RTE 176: 35 MPH WEST OF WALKUP ROAD
30 MPH EAST OF WALKUP ROAD

SCALES:

PLAN 1″=50′ (OR 1″=20′)
PROFILE HORIZ. 1″=50′
PROFILE VERT. 1″=5′
CROSS SECTION HORIZ 1″=10′
CROSS SECTION VERT. 1″=5′

1″=2′ (0, 2, 4) 1″=20′ (0, 20, 40)
1″=5′ (0, 5, 10) 1″=50′ (0, 50, 100)
1″=10′ (0, 10, 20) 1″=200′ (0, 200, 400)

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

FOR UNDERGROUND UTILITY LOCATIONS, CALL J.U.L.I.E. 1–800–892–0123 TOLL FREE

CONTRACT NO. 63522

NUNDA TOWNSHIP

R8E, 3RD PM

T44N

PROJECT ENDS CRYSTAL LAKE ROAD STA. 307 + 45.00

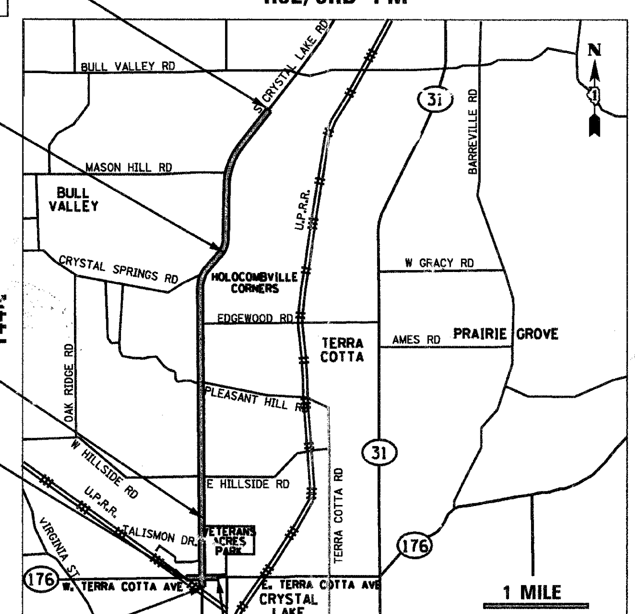
END OMISSION STA. 225 + 00.00

BEGIN OMISSION STA. 81 + 53.97

IL RTE 176 STA. 40 + 69.97

PROJECT BEGINS WALKUP ROAD STA. 43 + 22.55

IL RTE 176 STA. 60 + 07.50



LOCATION MAP

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE.
CHICAGO, IL 60601

GROSS LENGTH OF PROJECT = 26,422 FEET (5.004 MILE)
NET LENGTH OF PROJECT = 12,076 FEET (2.287 MILE)

	SEALS
COMPANY: TENG & ASSOCIATES INC. ENGINEERS/ARCHITECTS/PLANNERS 205 N. MICHIGAN AVE. CHICAGO, IL 60601 SIGNATURE: NAME: BYRON DANLEY SIGNATURE & SEAL APPLY TO DRAWING NOS. 1-28 & 31-111 & 148-190 & 209-292 DATE: 03/28/2011	4/7/11 EXPIRES 11/30/11
COMPANY: TENG & ASSOCIATES INC. ENGINEERS/ARCHITECTS/PLANNERS 205 N. MICHIGAN AVE. CHICAGO, IL 60601 SIGNATURE: NAME: BYRON DANLEY SIGNATURE & SEAL APPLY TO DRAWING NOS. 191-208 DATE: 03/28/2011	4/7/11 EXPIRES 11/30/12

LOCATION OF SECTION INDICATED THUS: –

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED April 6 20 11
Joseph R. Korpalski, Jr.
DIRECTOR OF TRANSPORTATION/COUNTY ENGINEER MCHENRY COUNTY

PASSED April 14 2011
C. Helt
DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW April 14, 20 11
Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE.
CHICAGO, IL 60601
TELEPHONE: 312-616-0000

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. (847) 705-4406, SCHAUMBURG, IL
CONSULTANT: TENG AND ASSOCIATES, INC. (312) 616-0000

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	002
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

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DISTRICT ONE DETAILS

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BD-07	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER
BD-08	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
BD-22	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
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TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-11	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
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IDOT STANDARD DETAILS

STD NO	SUBJECT / TITLE
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001001-02	AREAS OF REINFORCEMENT BARS
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
424001-05	CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
542101-02	REINFORCED CONCRETE END SECTIONS FOR PIPE CULVERTS 15" (375 mm) THRU 36" (900 mm) DIA. AT RIGHT ANGLES WITH ROADWAY
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
601101-01	CONCRETE HEADWALL FOR PIPE DRAINS
602001-02	CATCH BASIN, TYPE A
602011-02	CATCH BASIN, TYPE C
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602401-03	MANHOLE, TYPE A
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602421-02	MANHOLE, TYPE A, 9' (2.7 m) DIAMETER
602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS TYPE 1
604036-02	GRATE TYPE 8
604091-02	FRAME AND GRATE TYPE 24
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-03	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-02	OFF-RD OPERATIONS, MULTILANE, 15' (4.5m) TO 23" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
701206-03	LANE CLOSURE, 2L, 2W, NIGHT ONLY, FOR SPEEDS >= 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS >= 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
701336-06	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES FOR SPEEDS >= 45 MPH
701427	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS <= 40 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701606-07	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-07	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-04	LANE CLOSURE, MULTILANE, 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-02	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
720016-02	MAST ARM MOUNTED STREET NAME SIGNS
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
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814001-02	HANDHOLES
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857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTIBLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
877006-03	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MASTARMS
877011-04	STEEL COMB. MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-08	CONCRETE FOUNDATION DETAILS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS

MCHENRY COUNTY DIVISION OF TRANSPORTATION DETAILS

STD NO	SUBJECT / TITLE
	SHOULDER DETAIL
	URETHANE FOAM/GEOTEXTILE DITCH CHECK

CITY OF CRYSTAL LAKE DETAILS

DRAWING NO	SUBJECT / TITLE
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RD-03b	SIDEWALK RAMPS: DETECTABLE WARNINGS
TR-03	TRAFFIC CONTROL SIGN AND POST
UD-01a	INLET, TYPE A
UD-01b	CATCH BASIN, TYPE A
UD-01c	CATCH BASIN, TYPE C
UD-01d	STORM MANHOLE, TYPE A
UD-02b	ECCENTRIC FLAT TOPS FOR CURB INLET STORM MANHOLE
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UG-02	COMMON WATER-SANITARY SEWER TRENCH
UG-03	TYPICAL TRENCH CROSS SECTION
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US-01	SANITARY SERVICE RISER - DEPTH < 10'
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REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

INDEX OF SHEETS & STATE STANDARDS

SCALE: N.T.S. DRAWN BY: RJS
DATE: 06/10/11 CHECKED BY: MCD

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE 312/616-0000

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	003
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED)

2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND LOCAL AGENCIES.

3. THE CONTRACTOR SHALL PROTECT EXISTING OR NEW UTILITIES WHEN CONSIDERED NECESSARY BY METHODS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL BRACE AND SUPPORT THE UTILITIES PROPERLY TO PREVENT SETTLEMENT, DISPLACEMENT, OR DAMAGE TO THE UTILITIES. THE PROTECTION OF THE UTILITIES SPECIFIED HEREIN WILL NOT BE PAID FOR SEPARATELY, BUT THE COST THEREOF SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT.

4. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON PUBLIC PROPERTY WITHOUT WRITTEN PERMISSION FROM THE MCHENRY COUNTY DIVISION OF TRANSPORTATION.

5. ALL ELEVATIONS SHOWN ON THESE PLANS ARE ON THE USGS DATUM.

6. THE SURFACE CONFIGURATION OF DRIVEWAY PAVEMENT WITHIN THE LIMITS OF THE SIDEWALK OR THE SHARED USE PATH SHALL CONFORM TO THE FOLLOWING: THE PROFILE GRADE OF THE SIDEWALK OR THE SHARED USE PATH HAS PRIORITY AND SHALL BE MAINTAINED ACROSS THE DRIVEWAY. THE SIDEWALK OR THE SHARED USE PATH CROSS SLOPE THRU DRIVEWAY AREAS SHALL BE A MAXIMUM OF 1:50. THE DRIVEWAY PAVEMENT OUTSIDE THE LIMITS OF THE SIDEWALK OR SHARED USE PATH SHALL SLOPE TO MEET THE SIDEWALK OR SHARED USE PATH PROFILE GRADE.

7. IL 176 DRIVEWAYS ARE IN ACCORDANCE WITH DISTRICT DETAIL BD-01 & BD-02. IDOT DRIVEWAY PAVEMENT WILL BE MEASURED AND PAID FOR IN ACCORDANCE WITH BD-01 & BD-02. WALKUP AVE, WALKUP RD AND CRYSTAL LAKE DRIVEWAYS ARE IN ACCORDANCE WITH MCHENRY COUNTY DIVISION OF TRANSPORTATION REQUIREMENTS. MCDOT DRIVEWAY PAVEMENT WILL BE MEASURED AND PAID FOR ACCORDING TO THE SPECIAL PROVISION FOR HOT MIX ASPHALT DRIVEWAY PAVEMENT (MCDOT).

8. 10 FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER ITEMS OF WORK TO EXISTING CURBS & GUTTERS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED. ALL TRANSITIONS BETWEEN PROPOSED CURB AND SHOULDER SHALL BE 16 FOOT TRANSITIONS UNLESS OTHERWISE SHOWN ON THE PLANS.

9. WHERE PROPOSED CURBS AND GUTTERS ARE NOT TYING INTO EXISTING CURB AND GUTTER OR ARE ENDING, THEY SHALL TRANSITION TO 0" HEIGHT OVER THE FINAL 5 FEET.

10. PROTECTIVE COAT SHALL BE APPLIED IN ACCORDANCE WITH SECTION 420 OF THE STANDARD SPECIFICATIONS TO ALL EXPOSED SURFACES OF CURBS AND GUTTERS AND PCC SIDEWALKS.

11. NO PAYMENT SHALL BE MADE FOR OVERHAUL FROM ANY SOURCE, BUT SHALL BE CONSIDERED INCLUDED WITH EARTH EXCAVATION.

12. WHEREVER CONCRETE MASONRY WALLS, HEADWALLS, OR OTHER OBSTRUCTIONS ARE ENCOUNTERED THEY SHALL BE REMOVED TO AN ELEVATION OF 1 FOOT BELOW THE ESTABLISHED GRADE OR SUBGRADE AS SHOWN ON THE PLANS. SUCH WORK SHALL BE CONSIDERED INCLUDED IN EARTH EXCAVATION.

13. FIRE HYDRANTS TO BE MOVED, RELOCATED, OR ADJUSTED SHALL BE PLACED ACCORDING TO THE DIRECTION OF THE ENGINEER.

14. POROUS GRANULAR EMBANKMENT, SUBGRADE (PGES), HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT ARE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL OF UNSUITABLE AND UNSTABLE SOILS AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED FROM THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE DUE THE CONTRACTOR.

15. WHERE STRIP REFLECTIVE CRACK CONTROL TREATMENT IS SPECIFIED, TYPE A SHALL BE USED.

16. TYPE I, TYPE II, AND TYPE III BARRICADES SHALL BE WEIGHTED IN A MANNER APPROVED BY THE MANUFACTURER SO THEY ARE NOT MOVED BY TRAFFIC.

17. BUTT JOINTS SHALL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

18. THE STAGE LINE INDICATED ON THE CROSS SECTIONS IS THE BASIS FOR THE EARTHWORK QUANTITIES SHOWN ON THE EARTH WORK SCHEDULE.

19. WHERE SECTION, SUBSECTION, SUBDIVISION OR PROPERTY MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

20. THE LOCATIONS OF EXISTING WATER MAINS, GAS MAINS, SEWERS, ELECTRIC POWER LINES AND OTHER UTILITIES SHOWN ON THE PLANS ARE BASED ON FIELD INVESTIGATIONS AND THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTORS' RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATIONS FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.

GENERAL NOTES (CONT.)

21. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PRIVATE AND COMMERCIAL ENTRANCES FOR PROPERTY ABUTTING THE HIGHWAY OR STREET BEING IMPROVED AT ALL TIMES DURING CONSTRUCTION. WHEN A PROPERTY HAS ONLY A SINGLE ENTRANCE, THE CONTRACTOR SHALL CONSTRUCT THE PROPOSED ENTRANCE ONE HALF AT A TIME IN ORDER TO MAINTAIN ACCESS. WHEN A PROPERTY HAS MULTIPLE ENTRANCES, ONE OF THE ENTRANCES SHALL REMAIN OPEN AT ALL TIMES.

22. THE CONTRACTOR SHALL VERIFY THE ELEVATIONS SHOWN IN THE PLANS WHERE PROPOSED IMPROVEMENT MEETS THE EXISTING PAVEMENT OR GROUND. THE ENGINEER SHALL BE NOTIFIED OF DISCREPANCIES BETWEEN THESE ELEVATIONS IN SUFFICIENT TIME PRIOR TO FINAL GRADING OR PAVING TO ALLOW ELEVATION ADJUSTMENT TO BE MADE TO MEET FIELD CONDITIONS. THE EXISTING PAVEMENT AND GROUND ELEVATIONS SHOWN ON THE PLANS ARE DERIVED FROM COMPUTER TERRAIN MODELING AND MAY REQUIRE ADJUSTMENT TO MEET THE EXISTING PAVEMENT OR GROUND ELEVATION. ELEVATION ADJUSTMENTS DUE TO EXISTING PAVEMENT OR GROUND ELEVATION DISCREPANCIES SHALL NOT BE A CAUSE FOR ADDITIONAL COMPENSATION AND SHALL BE CONSIDERED AS INCLUDED IN THE WORK FOR THE GRADING AND PAVING PAY ITEMS PROVIDED IN THE CONTRACT.

23. PAINT SHALL NOT BE APPLIED TO EXISTING PAVEMENT WEARING SURFACES THAT ARE NOT BE OVERLAID. TYPE III MARKING TAPE SHALL BE USED ON EXISTING PAVEMENT WHEN TEMPORARY PAVEMENT MARKING WILL CONFLICT WITH THE PERMANENT PAVEMENT MARKING SUCH AS ON TAPERS, CROSSOVER, LANE SHIFTS AND STOP BARS. THE COST OF USING TYPE III MARKING TAPE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TEMPORARY PAVEMENT MARKING OF THE LINE WIDTH SPECIFIED.

24. SAW CUTTING OF PAVEMENTS, SHOULDERS, ETC. SHALL BE TO FULL DEPTH AND SHALL RESULT IN A CLEAN STRAIGHT EDGE ON THE PORTION REMAINING. ALL SAWCUTTING SHALL BE CONSIDERED INCLUDED IN THE ITEM BEING REMOVED.

25. ALL CITY OF CRYSTAL LAKE SANITARY, STORM AND WATER STRUCTURES SHALL HAVE "CITY OF CRYSTAL LAKE SANITARY", "CITY OF CRYSTAL LAKE STORM", OR "CITY OF CRYSTAL LAKE WATER", CAST INTO THEIR RESPECTIVE LIDS. THE PAY ITEM DESCRIPTION •TYPE 1 FRAME, CLOSED LID• SHALL BE INTERPRETED TO MEAN FRAMES AND LIDS IN ACCORDANCE WITH THE CITY OF CRYSTAL LAKE DETAILS SHOWN IN THE PLANS FOR ALL SANITARY, STORM AND WATER STRUCTURES MAINTAINED BY THE CITY OF CRYSTAL LAKE.

26. FOUR (4) CHANGEABLE MESSAGE SIGNS SHALL BE FURNISHED AND PLACED AS DIRECTED BY THE ENGINEER.

27. THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

28. ANY WASTE GENERATED AS A SPECIAL WASTE FROM THIS PROJECT SHOULD BE MANIFESTED OFF-SITE USING THE GENERATOR NUMBER ASSOCIATED WITH MCHENRY COUNTY. THE GENERATOR NUMBER FOR MCHENRY COUNTY IS 1118995010.

DRAINAGE NOTES

1. INVERT ELEVATION FOR EXISTING PIPES HAVE BEEN SHOWN ON THE PLANS WHEN SURVEY INFORMATION WAS AVAILABLE. THE CONTRACTOR SHALL VERIFY THE INVERT ELEVATIONS FOR EXISTING PIPES IN THE FIELD AT THE TIME OF CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

2. WHERE A DRAINAGE STRUCTURE IS PROPOSED TO BE INSTALLED IN AN EXISTING SEWER, A PORTION OF THE EXISTING PIPE SHALL BE CUT AND REMOVED. THE PROPOSED STRUCTURE SHALL BE PROVIDED WITH ADEQUATELY SIZED OPENINGS SUCH THAT THE EXISTING PIPE MAY BE CONNECTED AT ITS EXISTING INVERT ELEVATION. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS DRAINAGE STRUCTURES TO BE CONSTRUCTED.

3. FOR PROPOSED STORM SEWER OR PIPE CULVERT CONNECTIONS TO EXISTING PIPES, BOX CULVERT, OR STRUCTURES, THE CONNECTION AND REMOVAL OF CONCRETE TO MAKE NECESSARY HOLES IN THE EXISTING PIPES, EXISTING BOX CULVERTS, OR EXISTING STRUCTURES WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR STORM SEWERS OR PIPE CULVERTS OF THE DIAMETER, TYPE, AND CLASS SPECIFIED, AND OF THE PARTICULAR KIND OF MATERIAL WHEN SPECIFIED.

4. PIPE UNDERDRAIN OUTLETS SHALL BE CONNECTED TO DRAINAGE STRUCTURES UNLESS OTHERWISE SHOWN ON THE PLANS. THE COST OF CONNECTING PIPE UNDERDRAIN OUTLETS TO DRAINAGE STRUCTURES WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS DRAINAGE STRUCTURES TO BE CONSTRUCTED.

5. TOP OF GRATE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLANS WERE DETERMINED BY COMPUTER TERRAIN MODELING. REVISION OF THE TOP OF GRATE ELEVATION, BY THE ENGINEER AT THE TIME OF CONSTRUCTION, TO MEET FIELD CONDITIONS SHALL NOT BE A CAUSE FOR ADDITIONAL COMPENSATION AND SHALL BE CONSIDERED AS INCLUDED IN THE WORK FOR THE DRAINAGE STRUCTURE.

6. REMOVAL OF EXISTING UNDERDRAINS AND HEADWALLS FOR UNDERDRAINS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION.

7. THE CONTRACTOR SHALL VERIFY THE INVERTS, SIZES, AND MATERIAL FOR ALL EXISTING STORM SEWERS THAT ARE BEING CONNECTED TO THE PROPOSED STORM SEWER SYSTEM BEFORE ORDERING STORM SEWER MATERIAL.

DRAINAGE NOTES (CONT.)

8. THE CONTRACTOR SHALL PROVIDE POSITIVE TEMPORARY DRAINAGE UNTIL THE FINAL SURFACE IS PLACED. THE COST OF WORK REQUIRED TO PROVIDE POSITIVE TEMPORARY DRAINAGE SHALL BE CONSIDERED INCLUDED IN THE COST OF THE PROPOSED WORK, UNLESS OTHERWISE SPECIFIED. TEMPORARY DRAINAGE STRUCTURES AND PIPE WILL BE PAID FOR SEPARATELY.

9. SEE DRAINAGE SCHEDULE SHEETS 088 TO 093 FOR DETAILS ON OFFSET AND STRUCTURE LOCATIONS.

10. SEE DRAINAGE DETAIL SHEET 107 FOR STRUCTURES WITH RESTRICTOR PLATES.

11. ALL STORM SEWERS, PIPE CULVERTS, CATCH BASINS, MANHOLES, INLETS AND SIMILAR STRUCTURES NEWLY CONSTRUCTED, ADJUSTED, OR RECONSTRUCTED UNDER THE CONTRACT, SHALL BE CLEANED OF ANY ACCUMULATION OF SILT, DEBRIS, OR FOREIGN MATTER OF ANY KIND, AND SALL BE FREE FROM SUCH ACCUMULATIONS AT THE TIME OF FINAL INSPECTION. THE COST OF ANY CLEANING REQUIRED TO COMPLY WITH THIS REQUIREMENT WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE WORK.

12. ALL OPEN DRAINAGE STRUCTURES SHALL CONTAIN THE TEXT "DUMP NO WASTE" AND "DRAINS TO WATERWAYS" PER MCDOT NPDES BMP'S. SEE SPECIAL PROVISION ENVIRONMENT NOTICE FOR DRAINAGE STRUCTURES.

13. PERIMETER EROSION BARRIER SHALL BE UTILIZED FOR ANY EXCAVATED MATERIAL THAT IS STOCKPILED THROUGHOUT THE LIMITS OF THE CONTRACT.

14. PERIMETER EROSION BARRIER UTILIZED FOR EMBANKMENT MATERIAL THAT IS STOCKPILED FOR THE CONVENIENCE OF THE CONTRACTOR WILL NOT BE MEASURED FOR PAYMENT AND THE COST OF THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION. PERIMETER EROSION BARRIER UTILIZED FOR EMBANKMENT MATERIAL THAT IS STOCKPILED AT THE DIRECTION OF THE ENGINEER WILL BE PAID FOR SEPARATELY.

15. PRECAST REINFORCED CONCRETE FLARED END SECTIONS WILL BE INCLUDED IN THE LENGTH OF MEASUREMENT FOR PIPE CULVERT REMOVAL. THE REMOVAL OF GRATING FOR PRECAST CONCRETE FLARED END SECTIONS WILL NOT BE MEASURED FOR PAYMENT, BUT THE COST OF THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PIPE CULVERT REMOVAL.

CONSTRUCTION SCHEDULING NOTES

PRE STAGE CONSTRUCTION WATER SYSTEM WORK

1. THE CONTRACTOR WILL BE ALLOWED TO SEPARATELY CLOSE FIRST ST, SECOND ST AND THIRD ST AT THE INTERSECTION WITH ILL ROUTE 176 DURING WATER MAIN CONSTRUCTION. ONLY ONE STREET WILL BE ALLOWED TO BE CLOSED DURING ANY SINGLE TIME PERIOD.

2. THE STREET CLOSURE AT FIRST ST SHALL NOT EXCEED 30 CALENDAR DAYS (INCLUDES CONSTRUCTION OF STEEL CASING ACROSS ILL RTE 176).
THE STREET CLOSURE AT SECOND ST SHALL NOT EXCEED 7 CALENDAR DAYS.
THE STREET CLOSURE AT THIRD ST SHALL NOT EXCEED 7 CALENDAR DAYS.

STAGE ONE CONSTRUCTION ROADWAY WORK

3. THE CONTRACTOR WILL BE ALLOWED TO CLOSE FIRST ST, SECOND ST AND THIRD ST AT THE INTERSECTION WITH ILL ROUTE 176 DURING STAGE 1 CONSTRUCTION FOR STORM SEWER, GRADING, AGGREGATE SUBGRADE, CURB AND GUTTER AND RELATED WORK. ONLY ONE STREET WILL BE ALLOWED TO BE CLOSED DURING ANY SINGLE TIME PERIOD.

4. THE INDIVIDUAL STREET CLOSURES AT FIRST ST, SECOND ST AND THIRD ST SHALL NOT EXCEED 10 CONSECUTIVE CALENDAR DAYS EACH.

5. SIMULTANEOUS CLOSURE OF FIRST ST, SECOND ST AND THIRD ST WILL BE ALLOWED DURING PAVING OF FULL DEPTH PAVEMENT BINDER COURSE. THE SIMULTANEOUS CLOSURE OF FIRST ST, SECOND ST AND THIRD ST TO ALLOW PAVING OF FULL DEPTH PAVEMENT BINDER COURSE SHALL BE SCHEDULED BY THE CONTRACTOR TO START WITHIN 8 CALENDAR DAYS PRIOR TO THE IMPLEMENTATION OF STAGE 2 TRAFFIC CONTROL.

6. THE SIMULTANEOUS STREET CLOSURES OF FIRST ST, SECOND ST AND THIRD ST SHALL NOT EXCEED 8 CONSECUTIVE CALENDAR DAYS.

STREET CLOSURES

7. APPROVAL FOR STREET CLOSURES SHALL BE OBTAINED FROM THE CITY ENGINEER A MINIMUM OF 7 CALENDAR DAYS IN ADVANCE OF THE PROPOSED STREET CLOSURE. THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN (AND REMOVE) ALL SIGNS AND BARRICADES IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, STANDARDS, AND DETAILS ON THE PLANS. THE COST OF STREET CLOSURES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

GENERAL NOTES

SCALE: N.T.S. DRAWN BY: DE
DATE: 06/10/11 CHECKED BY: MCD

TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE: 312/616-0000

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	004
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

SUMMARY OF QUANTITIES

	ITEM NO	DESCRIPTION	UNIT	URBAN TOTAL	WALKUP RD CMAQ	WALKUP RD STU	WALKUP RD LOCAL
					CONSTRUCTION TYPE CODE		
					0003	0003	0043
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	920	622	298	
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	4398	3292	1106	
	20101100	TREE TRUNK PROTECTION	EACH	41	17	24	
	20101200	TREE ROOT PRUNING	EACH	65	50	15	
	20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	35	25	10	
	20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	35	25	10	
	20200100	EARTH EXCAVATION	CU YD	23772	18258	5514	
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	15811	13254	2557	
	20400800	FURNISHED EXCAVATION	CU YD	2764	2243	521	
	20700220	POROUS GRANULAR EMBANKMENT	CU YD	589		589	
	20800150	TRENCH BACKFILL	CU YD	6628	3690	2938	
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	283		283	
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	58580	50237	8343	
	21101630	TOPSOIL FURNISH AND PLACE, 8"	SQ YD	7079	3088	3991	
	21101815	COMPOST FURNISH AND PLACE, 4"	SQ YD	3088	3088		
*	25000210	SEEDING, CLASS 2A	ACRE	6.1	6	0.1	
*	25000312	SEEDING, CLASS 4A	ACRE	1.9	1.9		
*	25000314	SEEDING, CLASS 4B	ACRE	0.7		0.7	
*	25000324	SEEDING, CLASS 5B	ACRE	0.7		0.7	
*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	1094	932	162	
*	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	1094	932	162	
*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	1094	932	162	
*	25100630	EROSION CONTROL BLANKET	SQ YD	44731	41277	3454	
*	25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	9528	9528		
*	25100900	TURF REINFORCEMENT MAT	SQ YD	186	186		
*	25200110	SODDING, SALT TOLERANT	SQ YD	20344	12001	8343	
*	25200200	SUPPLEMENTAL WATERING	UNIT	205	121	84	
	28000200	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	26	26		
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1346	1102	244	
	28000305	TEMPORARY DITCH CHECKS	FOOT	664	664		
	28000400	PERIMETER EROSION BARRIER	FOOT	16423	13777	2646	
	28000510	INLET FILTERS	EACH	182	130	52	
	28001000	AGGREGATE (EROSION CONTROL)	TON	4	4		
	28100105	STONE RIPRAP, CLASS A3	SQ YD	114	74	40	
	28100109	STONE RIPRAP, CLASS A5	SQ YD	32	32		
	28200200	FILTER FABRIC	SQ YD	346	106	240	
	31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	28659	28410	249	
	35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	3676	3393	283	
	35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	560		560	
	35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	201		201	
	35501328	HOT-MIX ASPHALT BASE COURSE, 11"	SQ YD	690		690	
	40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	47	47		
	40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	61.4	54.1	7.3	

* SPECIALTY ITEM

REVISIONS	
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MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

SUMMARY OF QUANTITIES
SHEET 1 OF 8

SCALE: N.T.S. DRAWN BY: LK

DATE: 06/10/11 CHECKED BY: MCD

TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE: 312/616-0000

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	005
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

SUMMARY OF QUANTITIES

ITEM NO	DESCRIPTION	UNIT	URBAN TOTAL	WALKUP RD CMAQ	WALKUP RD STU	WALKUP RD LOCAL
				CONSTRUCTION TYPE CODE		
				0003	0003	0043
40600300	AGGREGATE (PRIME COAT)	TON	292	292		
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	7	4	3	
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	90		90	
40600895	CONSTRUCTING TEST STRIP	EACH	3	1	2	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	157	99	58	
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	13974	13974		
40603153	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80	TON	64		64	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	464	352	112	
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	3152	3073	79	
40701941	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 13"	SQ YD	20540	17279	3261	
40701961	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 14"	SQ YD	14025		14025	
42001300	PROTECTIVE COAT	SQ YD	11275	7274	4001	
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	181	48	133	
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	151	54	97	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	16751		16751	
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	1319	875	444	
42400800	DETECTABLE WARNINGS	SQ FT	626	227	399	
44000100	PAVEMENT REMOVAL	SQ YD	34030	21398	12632	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	5164	3027	2137	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	9102	3940	5162	
44000600	SIDEWALK REMOVAL	SQ FT	13069	2847	10222	
44200104	PAVEMENT PATCHING, TYPE I, 9 INCH	SQ YD	4			4
44200108	PAVEMENT PATCHING, TYPE II, 9 INCH	SQ YD	45			45
44200114	PAVEMENT PATCHING, TYPE IV, 9 INCH	SQ YD	122			122
44201753	CLASS D PATCHES, TYPE II, 9 INCH	SQ YD	170	170		
44201757	CLASS D PATCHES, TYPE III, 9 INCH	SQ YD	671	573	98	
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SQ YD	61	61		
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	18081	17496	585	
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	892	892		
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	921	921		
50105220	PIPE CULVERT REMOVAL	FOOT	1370	1370		
50200100	STRUCTURE EXCAVATION	CU YD	627		627	
50300225	CONCRETE STRUCTURES	CU YD	477.6		477.6	
50300285	FORM LINER TEXTURED SURFACE	SQ FT	3953		3953	
50500505	STUD SHEAR CONNECTORS	EACH	1056		1056	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	72200		72200	
50901750	PARAPET RAILING	FOOT	465		465	
50901760	PIPE HANDRAIL	FOOT	182		182	
51603000	DRILLED SHAFT IN SOIL	CU YD	20.9		20.9	
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	26	26		
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	12	12		
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	16	16		
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	3	3		

* SPECIALTY ITEM

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

SUMMARY OF QUANTITIES
SHEET 2 OF 8

SCALE: N.T.S. DRAWN BY: LK
DATE: 06/10/11 CHECKED BY: MCD

TENG

SUMMARY OF QUANTITIES

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	006
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

	ITEM NO	DESCRIPTION	UNIT	URBAN TOTAL	WALKUP RD CMAQ	WALKUP RD STU	WALKUP RD LOCAL
					CONSTRUCTION TYPE CODE		
					0003	0003	0043
	54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	1	1		
	54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	2	2		
	5421D012	PIPE CULVERTS, CLASS D, TYPE 1 12" (TEMPORARY)	FOOT	712	466	246	
	542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	117	117		
	542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	54	54		
	542D0217	PIPE CULVERTS, CLASS D, TYPE 1 12"	FOOT	147	147		
	542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	114	114		
	542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	12	12		
	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	1402	1207	195	
	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	27	7	20	
	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	564	564		
	550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	23	23		
	550A0160	STORM SEWERS, CLASS A, TYPE 1 36"	FOOT	67	67		
	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	2697	1797	900	
	550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	1200	808	392	
	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	3056	2724	332	
	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	681	350	331	
	550A0430	STORM SEWERS, CLASS A, TYPE 2 30"	FOOT	208	77	131	
	550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	485		485	
	550A0470	STORM SEWERS, CLASS A, TYPE 2 42"	FOOT	439	343	96	
	550A0640	STORM SEWERS, CLASS A, TYPE 3 12"	FOOT	125		125	
	550A0660	STORM SEWERS, CLASS A, TYPE 3 15"	FOOT	59		59	
	550A0710	STORM SEWERS, CLASS A, TYPE 3 24"	FOOT	202		202	
	550A0770	STORM SEWERS, CLASS A, TYPE 3 42"	FOOT	179	179		
	550A5000	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 27"	FOOT	374	374		
	550A5300	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 36"	FOOT	874	874		
	550B0410	STORM SEWERS, CLASS B, TYPE 2 24"	FOOT	325		325	
	55100500	STORM SEWER REMOVAL 12"	FOOT	1917	455	1462	
	55100700	STORM SEWER REMOVAL 15"	FOOT	633	84	549	
	55100900	STORM SEWER REMOVAL 18"	FOOT	1456	1433	23	
	55101200	STORM SEWER REMOVAL 24"	FOOT	152	116	36	
	55101400	STORM SEWER REMOVAL 30"	FOOT	914	561	353	
	55101800	STORM SEWER REMOVAL 42"	FOOT	62		62	
•	56100003	DUCTILE IRON WATER MAIN TEE, 4" X 4"	EACH	1			1
•	56100010	DUCTILE IRON WATER MAIN TEE 8" X 4"	EACH	1			1
•	56100015	DUCTILE IRON WATER MAIN TEE, 8" X 6"	EACH	2			2
•	56100045	DUCTILE IRON WATER MAIN TEE, 12" X 4"	EACH	5			5
•	56100050	DUCTILE IRON WATER MAIN TEE, 12" X 6"	EACH	4			4
•	56100055	DUCTILE IRON WATER MAIN TEE, 12" X 8"	EACH	4			4
•	56100065	DUCTILE IRON WATER MAIN TEE, 12" X 12"	EACH	4			4
•	56101160	DUCTILE IRON WATER MAIN REDUCER, 12" X 8"	EACH	3			3
•	56102900	DUCTILE IRON WATER MAIN 4"	FOOT	127			127
•	56103000	DUCTILE IRON WATER MAIN 6"	FOOT	168			168

• SPECIALTY ITEM

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

SUMMARY OF QUANTITIES
SHEET 3 OF 8

SCALE: N.T.S.
DRAWN BY: LK
DATE: 06/10/11
CHECKED BY: MCD

TENG

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	007
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

SUMMARY OF QUANTITIES

					WALKUP RD CMAQ	WALKUP RD STU	WALKUP RD LOCAL
	ITEM NO	DESCRIPTION	UNIT	URBAN TOTAL	CONSTRUCTION TYPE CODE 0003	0003	0043
*	56103100	DUCTILE IRON WATER MAIN 8"	FOOT	272			272
*	56103300	DUCTILE IRON WATER MAIN 12"	FOOT	1928			1928
*	56104800	WATER VALVES 4"	EACH	8			8
*	56105000	WATER VALVES 8"	EACH	6			6
*	56105200	WATER VALVES 12"	EACH	7			7
*	56106400	ADJUSTING WATER MAIN 8"	FOOT	80			80
*	56109416	DUCTILE IRON WATER MAIN FITTINGS 4" 45.00 DEGREE BEND	EACH	1			1
*	56109420	DUCTILE IRON WATER MAIN FITTINGS 8" 45.00 DEGREE BEND	EACH	4			4
*	56109424	DUCTILE IRON WATER MAIN FITTINGS 12" 45.00 DEGREE BEND	EACH	3			3
*	56109430	DUCTILE IRON WATER MAIN FITTINGS 4" 90.00 DEGREE BEND	EACH	6			6
*	56109432	DUCTILE IRON WATER MAIN FITTINGS 6" 90.00 DEGREE BEND	EACH	1			1
*	56109434	DUCTILE IRON WATER MAIN FITTINGS 8" 90.00 DEGREE BEND	EACH	3			3
*	56109438	DUCTILE IRON WATER MAIN FITTINGS 12" 90.00 DEGREE BEND	EACH	2			2
*	56200300	WATER SERVICE LINE 1"	FOOT	431			431
*	56300100	ADJUSTING SANITARY SEWERS, 8-INCH DIAMETER OR LESS	FOOT	80			80
*	56300300	ADJUSTING WATER SERVICE LINES	FOOT	100			100
*	56400100	FIRE HYDRANTS TO BE MOVED	EACH	6			6
*	56400300	FIRE HYDRANTS TO BE ADJUSTED	EACH	1	1		
*	56400400	FIRE HYDRANTS TO BE RELOCATED	EACH	2	2		
*	56400500	FIRE HYDRANTS TO BE REMOVED	EACH	6			6
*	56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	8			8
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	402		402	
	60107700	PIPE UNDERDRAINS 6"	FOOT	330	234	96	
	60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	18	16	2	
	60200205	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4	3	1	
	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	70	51	19	
	60205040	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	7	2	5	
	60205310	CATCH BASINS, TYPE A, 6'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	3	1	2	
	60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	3	3		
	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	2		2	
	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	16	5	11	
	60219540	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	7	5	2	
	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5	1	4	
	60223700	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1		1	
	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	12	11	1	
	60224469	MANHOLES, TYPE A, 9'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1		
	60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	9	2	7	
	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	70	55	15	
	60248900	VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	13			13
	60255500	MANHOLES TO BE ADJUSTED	EACH	10	5	5	
	60257900	MANHOLES TO BE RECONSTRUCTED	EACH	5		5	
	60265700	VALVE VAULTS TO BE ADJUSTED	EACH	11			11
	60266100	VALVE VAULTS TO BE RECONSTRUCTED	EACH	4			4

* SPECIALTY ITEM

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

SUMMARY OF QUANTITIES
SHEET 4 OF 8

SCALE: N.T.S. DRAWN BY: LK
DATE: 06/10/11 CHECKED BY: MCD

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ENGINEERS/ARCHITECTS/PLANNERS
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	008
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

SUMMARY OF QUANTITIES

	ITEM NO	DESCRIPTION	UNIT	URBAN TOTAL	WALKUP RD CMAQ	WALKUP RD STU	WALKUP RD LOCAL
					CONSTRUCTION TYPE CODE		
					0003	0003	0043
	60600095	CLASS SI CONCRETE (OUTLET)	CU YD	6	6		
	60600605	CONCRETE CURB, TYPE B	FOOT	124		124	
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	26607	21310	5297	
	61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	1019	1019		
	63200310	GUARDRAIL REMOVAL	FOOT	464	464		
•	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1650		1650	
•	66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1		1	
•	66900530	SOIL DISPOSAL ANALYSIS	EACH	3		3	
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	24	18	6	
	67100100	MOBILIZATION	L SUM	1	0.7	0.3	
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	418	355	63	
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	96	96		
	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	8112	8112		
	70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	545	291	254	
	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	103904	85596	18308	
	70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	2475	1348	1127	
	70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	242	71	171	
	70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	541		541	
	70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	2500	1000	1500	
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	32037	32037		
•	72000100	SIGN PANEL - TYPE 1	SQ FT	32		32	
•	72000200	SIGN PANEL - TYPE 2	SQ FT	30	30		
•	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	72	42	30	
•	72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	8	7	1	
•	72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	176	106	70	
•	72900100	METAL POST - TYPE A	FOOT	35	23	12	
•	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1886	1409	477	
•	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	47253	38893	8360	
•	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	6611	4342	2269	
•	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	207	207		
•	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2025	1640	385	
•	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	553	376	177	
•	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	117		117	
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	16600	14110	2490	
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	105	105		
•	80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	2	1	1	
•	81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	1073	35	1038	
•	81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	62	34	28	
•	81000800	CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	94	74	20	
•	81000900	CONDUIT IN TRENCH, 3 1/2" DIA., GALVANIZED STEEL	FOOT	65		65	
•	81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	100	10	90	
•	81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	242		242	
•	81018600	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	45	45		

• SPECIALTY ITEM

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

SUMMARY OF QUANTITIES
SHEET 5 OF 8

SCALE: N.T.S. DRAWN BY: LK
DATE: 06/10/11 CHECKED BY: MCD

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE 312/616-0000

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	009

STA. TO STA.

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

CONTRACT NO: 63522

SUMMARY OF QUANTITIES

	ITEM NO	DESCRIPTION	UNIT	URBAN TOTAL	WALKUP RD CMAQ	WALKUP RD STU	WALKUP RD LOCAL
					CONSTRUCTION TYPE CODE		
					0003	0003	0043
*	81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	655	183	472	
*	81400100	HANDHOLE	EACH	8	2	6	
*	81400200	HEAVY-DUTY HANDHOLE	EACH	4		4	
*	81400300	DOUBLE HANDHOLE	EACH	3	1	2	
*	81700215	ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 2-1/C NO. 10	FOOT	408	408		
*	81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1341	148	1193	
*	82103250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, PHOTO-CELL CONTROL, 250 WATT	EACH	2	2		
*	84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	1		1	
*	84200804	REMOVAL OF POLE FOUNDATION	EACH	1		1	
*	85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1		1	
*	85700205	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1	1		
*	86200120	UNINTERRUPTIBLE POWER SUPPLY	EACH	2	1	1	
*	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1602		1602	
*	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2360		1633	727
*	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2736	1372	1364	
*	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3952	392	3560	
*	87301290	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 18 3C	FOOT	617	617		
*	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2368		2368	
*	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	89	53	36	
*	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT, GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1229	540	689	
*	87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1		1	
*	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3	3		
*	87502520	TRAFFIC SIGNAL POST, GALVANIZED STEEL 18 FT.	EACH	1	1		
*	87702168	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 14 FT. AND 58 FT.	EACH	1		1	
*	87702434	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 28 FT. AND 58 FT.	EACH	1		1	
*	87702435	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 28 FT. AND 62 FT.	EACH	1		1	
*	87702485	STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 30 FT. AND 60 FT.	EACH	1		1	
*	87702900	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 34 FT.	EACH	1	1		
*	87702940	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1	1		
*	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20	16	4	
*	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	8	4	4	
*	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	30	30		
*	87800420	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER	FOOT	84		84	
*	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	9	3	6	
*	88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	3	3		
*	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	12	1	11	
*	88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1	1		
*	88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1	1		
*	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2		2	
*	88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	3		3	
*	88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	24	4	20	
*	88500100	INDUCTIVE LOOP DETECTOR	EACH	8		8	
*	88600100	DETECTOR LOOP, TYPE 1	FOOT	773		773	
*	88700200	LIGHT DETECTOR	EACH	4			4

* SPECIALTY ITEM

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

SUMMARY OF QUANTITIES
SHEET 6 OF 8

SCALE: N.T.S. DRAWN BY: LK
DATE: 06/10/11 CHECKED BY: MCD

TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	010
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

SUMMARY OF QUANTITIES

	ITEM NO	DESCRIPTION	UNIT	URBAN TOTAL	WALKUP RD CMAQ	WALKUP RD STU	WALKUP RD LOCAL
					CONSTRUCTION TYPE CODE		
					0003	0003	0043
•	88700300	LIGHT DETECTOR AMPLIFIER	EACH	2			2
•	88800100	PEDESTRIAN PUSH-BUTTON	EACH	8		8	
•	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2		2	
•	89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1	
•	89502380	REMOVE EXISTING HANDHOLE	EACH	14		14	
•	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9		9	
	X0324455	DRILLING AND SETTING SOLDIER PILES (IN SOIL)	CU FT	5540		5540	
•	X0325714	FLASHING BEACON, POST MOUNTED, SOLAR POWERED INSTALLATION	EACH	2	2		
•	X0327190	STEEL CASING PIPE AUGERED AND JACKED 24"	FOOT	226			226
	X2010400	STUMP REMOVAL ONLY	UNIT	200	200		
	X2030300	CHANNEL EXCAVATION (SPECIAL)	CU YD	1157		1157	
	X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	162		162	
•	X2090210	POROUS GRANULAR BACKFILL, SPECIAL	CU YD	182		182	
•	X2502024	SEEDING, CLASS 4B (MODIFIED)	ACRE	0.7	0.7		
	X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	48	34	14	
	X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	11	6	5	
	X4023000	TEMPORARY ACCESS (ROAD)	EACH	1		1	
	X4024000	TEMPORARY ACCESS (FIELD ENTRANCE)	EACH	6	6		
	X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	12728	10553	2175	
•	X5610651	ABANDON EXISTING WATER MAIN, FILL WITH CLSM	FOOT	399			399
•	X5610748	WATER MAIN LINE STOP 8"	EACH	1			1
•	X5620030	WATER SERVICE CONNECTION 1"	EACH	22			22
•	X5630004	CUT AND CAP EXISTING 4" WATER MAIN	EACH	2			2
•	X6020073	INLETS, TYPE A, TYPE 8 GRATE, TEMPORARY	EACH	9	6	3	
•	X6020096	MANHOLES, TYPE A, 6'-DIAMETER, WITH 2 TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	EACH	4	2	2	
•	X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	11	6	5	
•	X6026051	SANITARY MANHOLES TO BE RECONSTRUCTED	EACH	4	1	3	
	X6064500	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (TEMPORARY)	FOOT	4782	3038	1744	
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	0.7	0.3	
•	X7200105	SIGN PANEL - TYPE 1 (SPECIAL)	SQ FT	475	306	169	
•	X7200205	SIGN PANEL - TYPE 2 (SPECIAL)	SQ FT	20	20		
•	X7280105	TELESCOPING STEEL SIGN SUPPORT (SPECIAL)	FOOT	1440	979	461	
•	X7310110	BASE FOR TELESCOPING SIGN SUPPORT, SPECIAL	EACH	100	68	32	
•	X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	727			727
•	XX003338	TEST HOLE	EACH	6	3	3	
•	XX003528	DUCTILE IRON WATER MAIN FITTING - 8" PLUG	EACH	4			4
•	XX004731	CONNECTION TO EXISTING WATERMAIN	EACH	10			10
•	XX005230	VIDEO DETECTION SYSTEM COMPLETE INTERSECTION	L SUM	1	1		
•	XX005855	WATER MAIN CASING PIPE	FOOT	24			24
•	XX006536	WATER SERVICE LINE 1", BORED	FOOT	396			396
•	XX006570	TREES (SPECIAL)	EACH	286	286		
	XX006613	AGGREGATE SURFACE COURSE, TYPE B 2" (SPECIAL)	SQ YD	283		283	

• SPECIALTY ITEM

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

SUMMARY OF QUANTITIES
SHEET 7 OF 8

SCALE: N.T.S. DRAWN BY: LK
DATE: 06/10/11 CHECKED BY: MCD

TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	011
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

SUMMARY OF QUANTITIES

	ITEM NO	DESCRIPTION	UNIT	URBAN TOTAL	WALKUP RD CMAQ	WALKUP RD STU	WALKUP RD LOCAL
					CONSTRUCTION TYPE CODE		
					0003	0003	0043
*	XX007061	OUTFALL STRUCTURE	EACH	1		1	
*	XX007356	CAST IRON VALVE BOXES	EACH	8			8
*	XX008549	DUCTILE IRON WATER MAIN FITTING - 12" PLUG	EACH	3			3
	Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	36063	17279	18784	
	Z0007118	UNTREATED TIMBER LAGGING	SQ FT	3080		3080	
	Z0007430	TEMPORARY SIDEWALK	SQ FT	651		651	
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.6	0.4	
	Z0016702	DETOUR SIGNING	L SUM	1		1	
	Z0018700	DRAINAGE STRUCTURE TO BE REMOVED	EACH	89	39	50	
*	Z0019500	DRYWELL	EACH	15	6	9	
	Z0019600	DUST CONTROL WATERING	UNIT	200	150	50	
	Z0022800	FENCE REMOVAL	FOOT	246	246		
	Z0026404	FURNISHING SOLDIER PILES (W SECTION)	FOOT	1302		1302	
*	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	50	50		
	Z0042002	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	3753	3263	490	
	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	673		673	
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1		1	
	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	287		287	
	Z0056610	STORM SEWER (WATER MAIN REQUIREMENTS) 15 INCH	FOOT	130		130	
	Z0056612	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	FOOT	51		51	
	Z0056616	STORM SEWER (WATER MAIN REQUIREMENTS) 24 INCH	FOOT	30		30	
	Z0056620	STORM SEWER (WATER MAIN REQUIREMENTS) 30 INCH	FOOT	22		22	
	Z0062456	TEMPORARY PAVEMENT	SQ YD	8708	5693	3015	
	Z0066400	STABILIZED DRIVEWAYS 6"	SQ YD	1765	1701	64	
	Z0066600	STABILIZED DRIVEWAYS 8"	SQ YD	453	379	74	
*	Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2		2	
△	Z0076600	TRAINEES	HOUR	2000		2000	

* SPECIALTY ITEM
△ CONSTRUCTION CODE 0042

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

SUMMARY OF QUANTITIES SHEET 8 OF 8

SCALE: N.T.S. DRAWN BY: LK
DATE: 06/10/11 CHECKED BY: MCD

TENG
TENG & ASSOCIATES, INC
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE 312/616-0000

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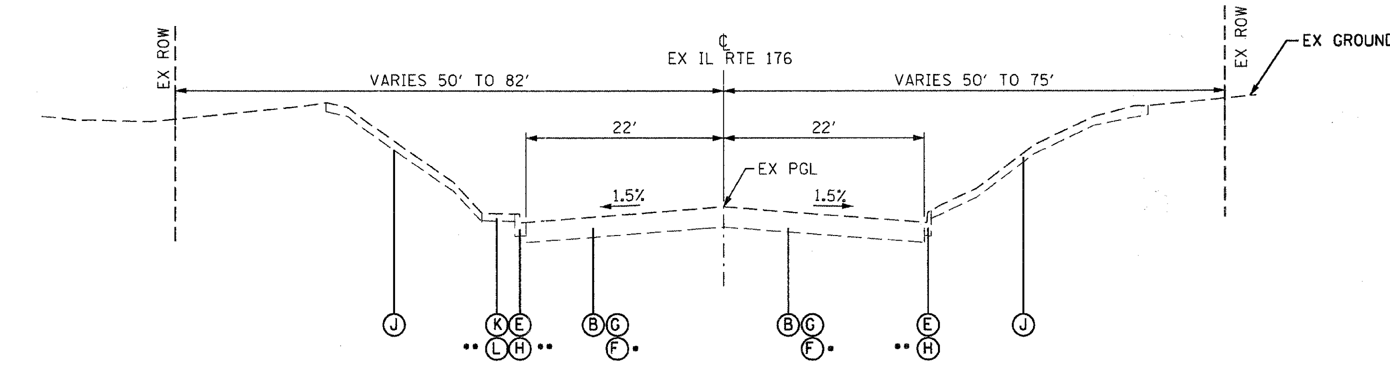
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	012
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

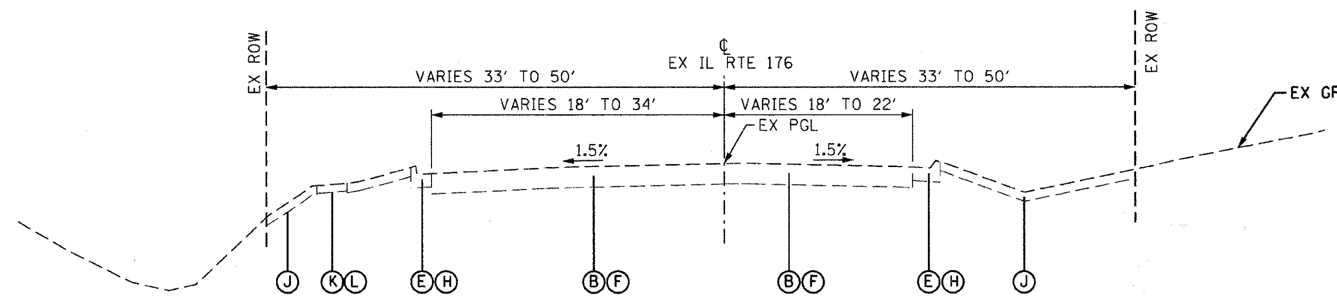


IL RTE 176 - EXISTING TYPICAL SECTION

STA. 40+69.97 TO STA. 43+17.47

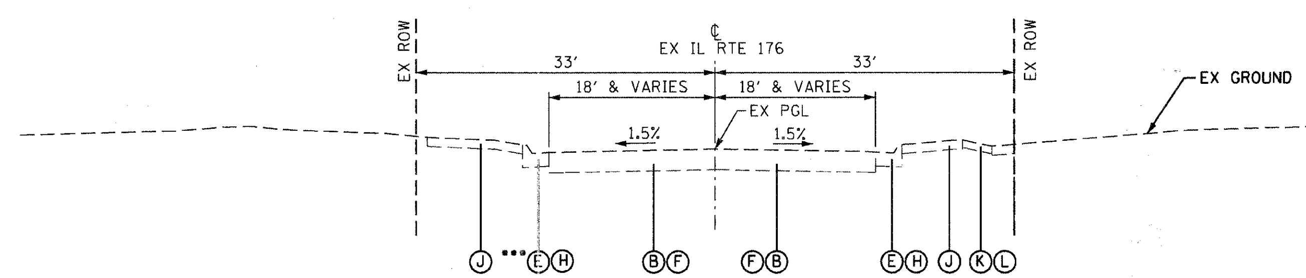
* STA. 43+12.74 TO STA. 43+17.47

** SEE PLANS FOR SIDEWALK AND COMBINATION CURB & GUTTER REMOVAL LIMITS



IL RTE 176 - EXISTING TYPICAL SECTION

STA. 43+17.47 TO 48+44.55



IL RTE 176 - EXISTING TYPICAL SECTION

STA. 48+44.55 TO 60+07.50

*** REMOVE CURB AND GUTTER UP TO STA. 61+23.23

EXISTING LEGEND

(A) ASPHALT PAVEMENT (9")	(F) PAVEMENT REMOVAL	(K) PCC SIDEWALK
(B) ASPHALT PAVEMENT (13.5")	(G) HOT-MIX ASPHALT SURFACE REMOVAL, VAR DEPTH	(L) SIDEWALK REMOVAL
(C) AGGREGATE SUBGRADE	(H) COMBINATION CURB & GUTTER REMOVAL	
(D) AGGREGATE SHOULDER	(I) REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL (UNDERCUT)	
(E) COMBINATION CONCRETE CURB & GUTTER	(J) REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL (TOPSOIL)	

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

EXISTING TYPICAL SECTIONS ILLINOIS ROUTE 176

SCALE: N.T.S. DRAWN BY: RJS

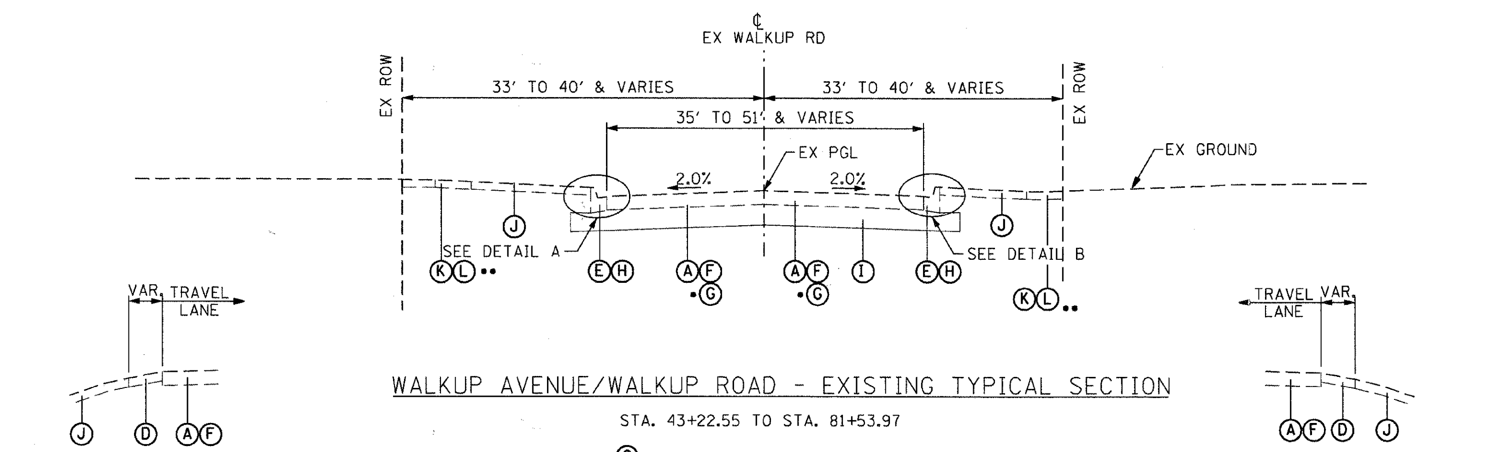
DATE: 04/15/11 CHECKED BY: MCD

TENG

TENG & ASSOCIATES, INC
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	013
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



WALKUP AVENUE/WALKUP ROAD - EXISTING TYPICAL SECTION

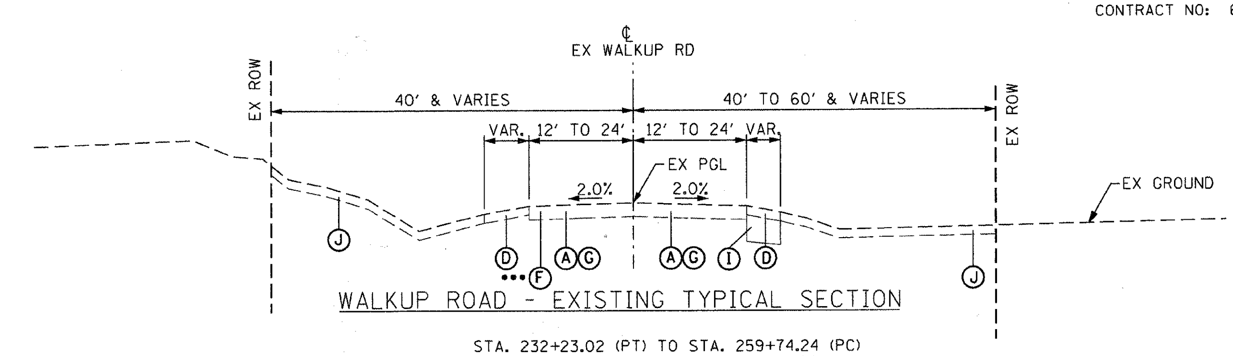
STA. 43+22.55 TO STA. 81+53.97

• (G) STA. 43+22.55 TO STA. 45+00.00

•• SEE PLANS FOR SIDEWALK REMOVAL LIMITS

DETAIL A
FROM STA. 69+64.86 TO STA 78+15.15

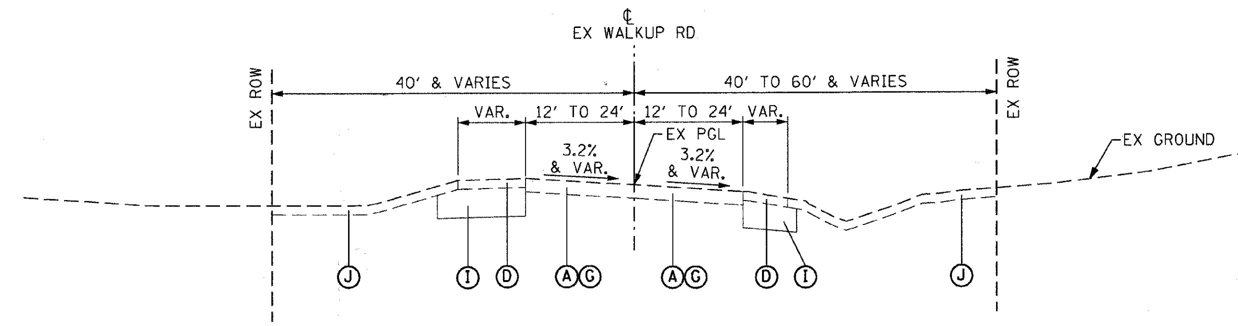
DETAIL B
FROM STA. 64+02.13 TO STA 77+26.72



WALKUP ROAD - EXISTING TYPICAL SECTION

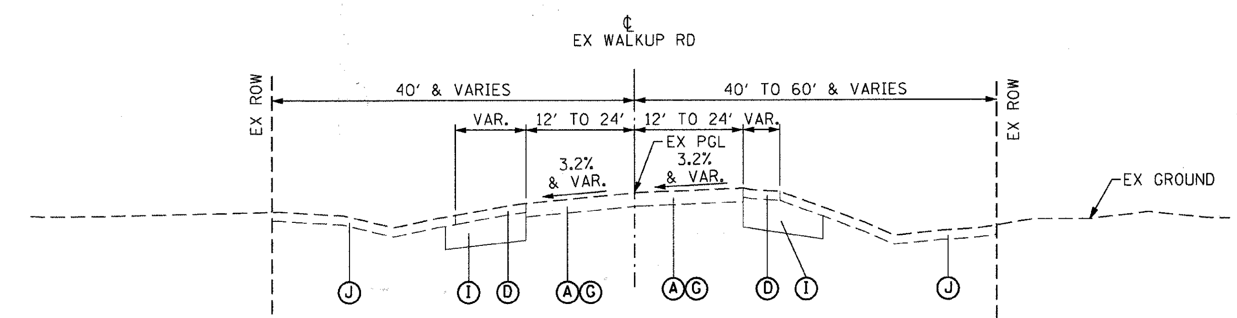
STA. 232+23.02 (PT) TO STA. 259+74.24 (PC)
STA. 278+95.17 (PT) TO STA. 307+45.00

••• (F) STA. 248+47.12 TO STA. 249+03.59 (LT)



WALKUP ROAD - EXISTING TYPICAL SECTION

STA. 259+74.24 (PC) TO 278+95.17 (PT)



WALKUP ROAD - EXISTING TYPICAL SECTION

STA. 225+00.00 TO 232+23.02 (PT)

EXISTING LEGEND

(A) ASPHALT PAVEMENT (9")	(F) PAVEMENT REMOVAL	(K) PCC SIDEWALK
(B) ASPHALT PAVEMENT (13.5")	(G) HOT-MIX ASPHALT SURFACE REMOVAL, VAR DEPTH	(L) SIDEWALK REMOVAL
(C) AGGREGATE SUBGRADE	(H) COMBINATION CURB & GUTTER REMOVAL	
(D) AGGREGATE SHOULDER	(I) REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL (UNDERCUT)	
(E) COMBINATION CONCRETE CURB & GUTTER	(J) REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL (TOPSOIL)	

NOTE:
SEE SHEET 028 AND CROSS-SECTIONS FOR DEPTH AND LOCATIONS OF UNDERCUT

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

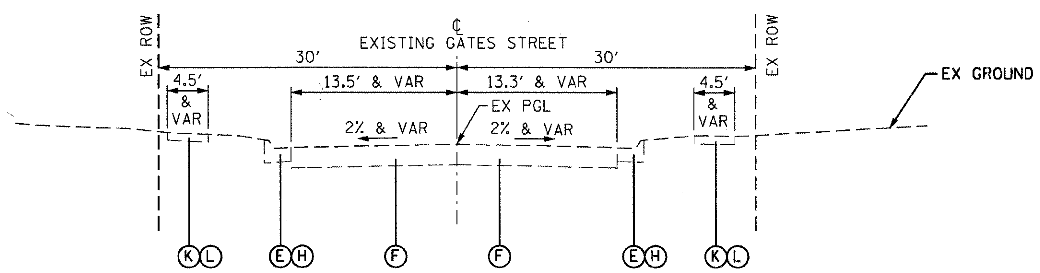
EXISTING TYPICAL SECTIONS WALKUP ROAD

SCALE: N.T.S. DRAWN BY: RJS
DATE: 04/15/11 CHECKED BY: MCD

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601

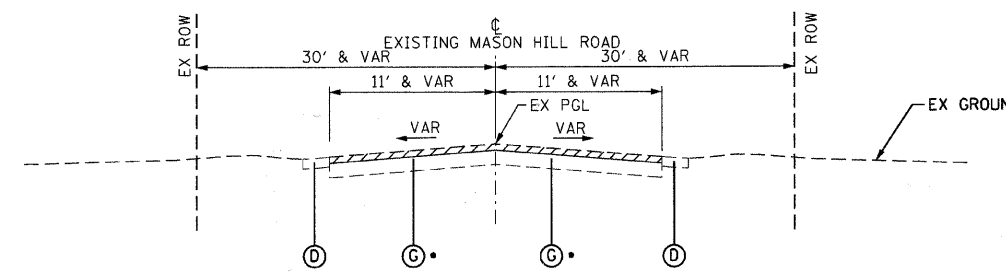
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	014
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



EXISTING GATES STREET

STA 30+18.15• (80.97' LT TO 6.11' RT) TO
STA 31+18.05• (13.65' LT TO 13.60' RT)
• PROPOSED GATE STATIONING



EXISTING MASON HILL ROAD

STA. 20+40.00 TO STA. 23+60.70
• FROM STA. 20+40.00 TO STA. 21+35.00

EXISTING LEGEND

(A) ASPHALT PAVEMENT (9")	(F) PAVEMENT REMOVAL	(K) PCC SIDEWALK
(B) ASPHALT PAVEMENT (13.5")	(G) HOT-MIX ASPHALT SURFACE REMOVAL, VAR DEPTH	(L) SIDEWALK REMOVAL
(C) AGGREGATE SUBGRADE	(H) COMBINATION CURB & GUTTER REMOVAL	
(D) AGGREGATE SHOULDER	(I) REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL (UNDERCUT)	
(E) COMBINATION CONCRETE CURB & GUTTER	(J) REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL (TOPSOIL)	

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

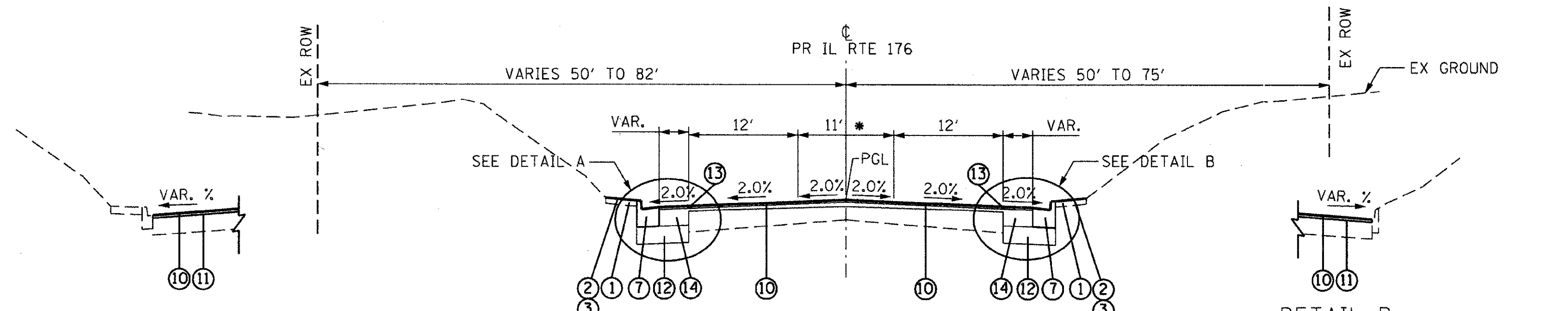
EXISTING TYPICAL SECTIONS SIDE STREETS

SCALE: N.T.S.
DRAWN BY: RJS
DATE: 04/15/11
CHECKED BY: MCD

TENG
TENG & ASSOCIATES, INC.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	015
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



DETAIL A

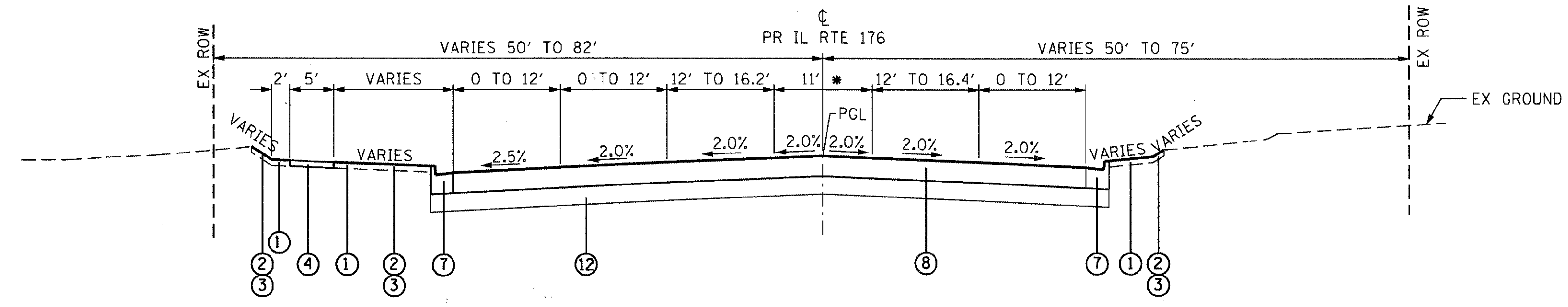
STA. 40+69.97 TO STA. 41+66.94

IL RTE 176 - PROPOSED TYPICAL SECTION

STA. 41+66.94 TO STA. 43+12.74

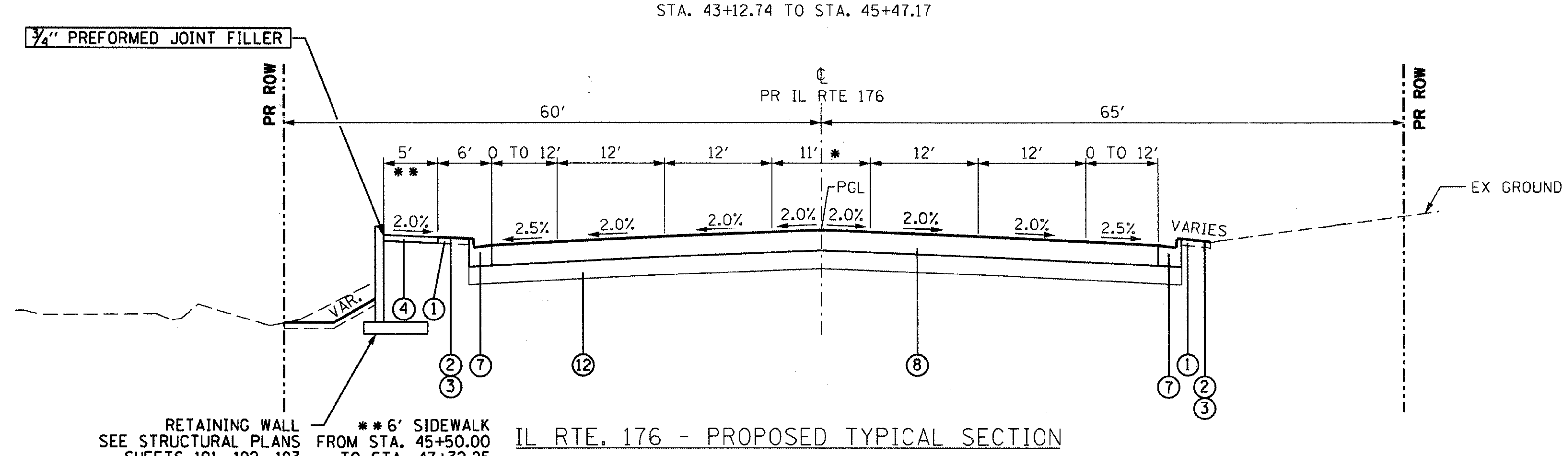
DETAIL B

STA. 40+69.97 TO STA. 41+66.94



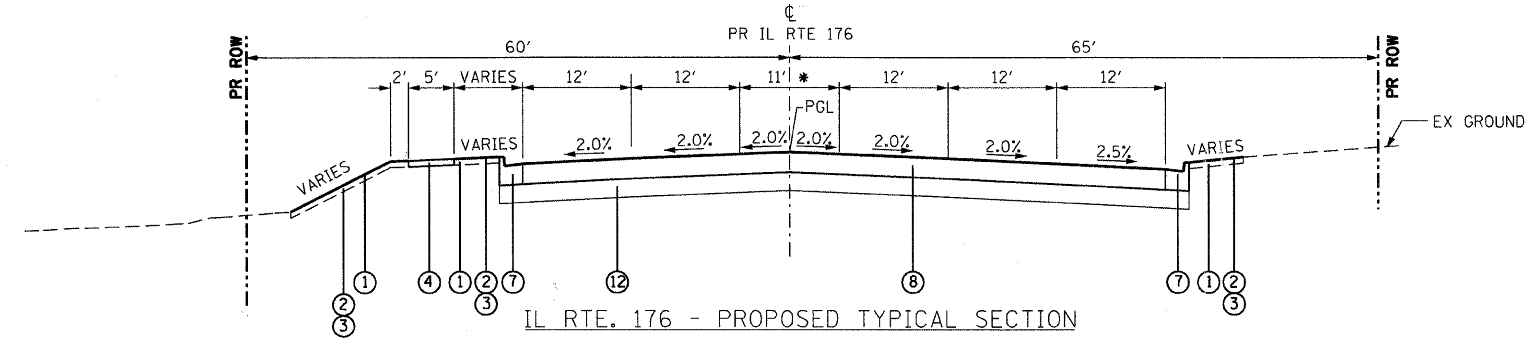
IL RTE. 176 - PROPOSED TYPICAL SECTION

STA. 43+12.74 TO STA. 45+47.17



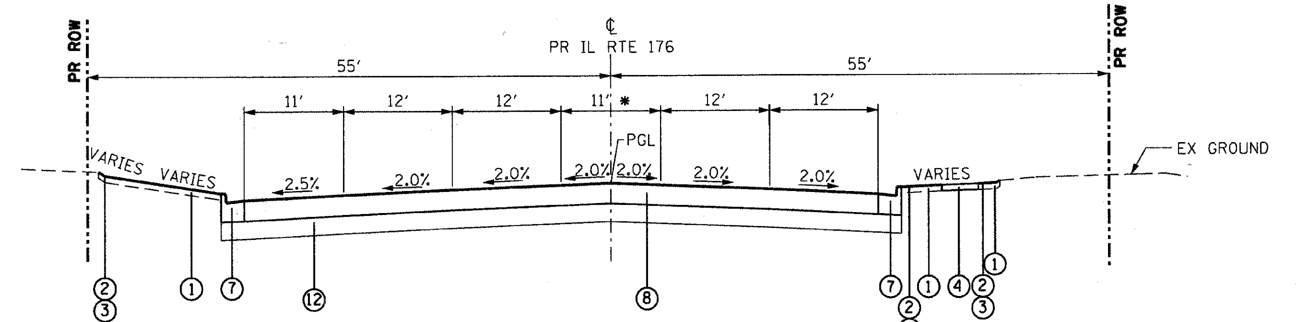
IL RTE. 176 - PROPOSED TYPICAL SECTION

STA. 45+47.17 TO STA. 47+94.77



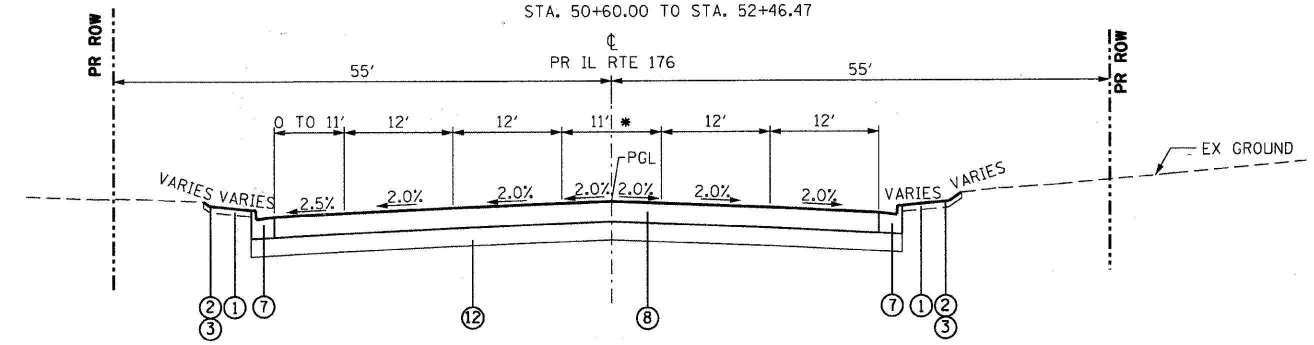
IL RTE. 176 - PROPOSED TYPICAL SECTION

STA. 47+94.77 TO STA. 49+40.00



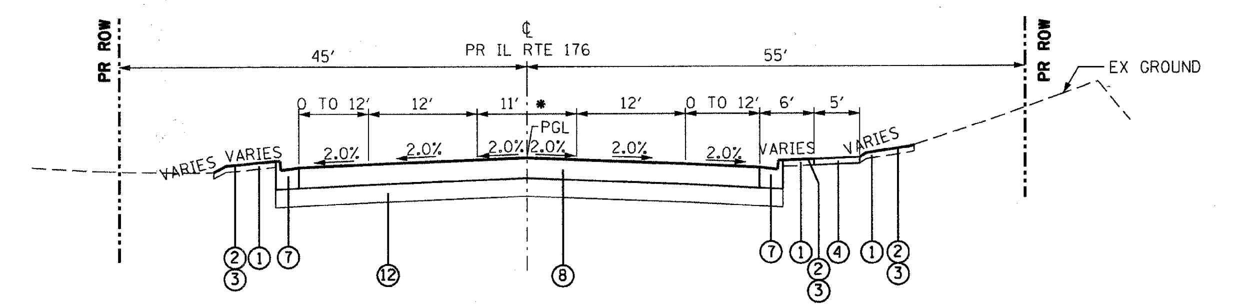
IL RTE. 176 - PROPOSED TYPICAL SECTION

STA. 50+60.00 TO STA. 52+46.47



IL RTE. 176 - PROPOSED TYPICAL SECTION

STA. 52+46.47 TO STA. 55+26.40



IL RTE. 176 - PROPOSED TYPICAL SECTION

STA. 55+26.40 TO STA. 60+07.50

NOTES:

1. SEE SHEET 028 AND CROSS SECTIONS FOR DEPTHS AND LOCATIONS OF UNDERCUT AND POROUS GRANULAR EMBANKMENT, SUBGRADE.
2. EXTEND THE SUBBASE OR AGGREGATE SUBGRADE AND ANY REQUIRED UNDERCUT 6" PAST THE BACK OF CURB AND BITUMINOUS WIDENING.
3. COMBINATION CONCRETE CURB AND GUTTER SHALL BE CONSTRUCTED FULL THICKNESS ON THE TOP OF THE SUBBASE.
4. THE BOTTOM SLOPE OF THE COMBINATION CONCRETE CURB AND GUTTER CONSTRUCTED ADJACENT TO THE PAVEMENT SHALL BE THE SAME SLOPE AS THE ADJACENT PAVEMENT.
5. AGGREGATE BASE COURSE TYPE B SHALL MEET ALL THE REQUIREMENTS FOR AGGREGATE BASE COURSE TYPE A EXCEPT THAT ADDING WATER TO THE AGGREGATE (BY USE OF A CONTROLLED AGGREGATE MIXING SYSTEM) BEFORE IT IS DEPOSITED ON THE SUBGRADE WILL NOT BE REQUIRED.
6. WALKUP AVE/WALKUP RD STA 47+60 TO STA 52+70
HOT-MIX ASPHALT PAVEMENT (FULL DEPTH, 14")
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80 (2")
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80 (2")
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 (10")

* LEFT TURN LANE/ PAINTED MEDIAN

PROPOSED LEGEND

1. TOPSOIL, 4"
2. SEEDING, CLASS 2A & EROSION CONTROL BLANKET
3. SODDING, SALT TOLERANT
4. PORTLAND CEMENT CONCRETE SIDEWALK, 5"
5. HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (2")
6. AGGREGATE BASE COURSE, TYPE B, 6" (SEE NOTE 5)
7. COMBINATION CURB & GUTTER, TYPE B-6.24 (SEE NOTE 3 & 4)
8. HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 14"
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80 (2")
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80 (2")
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 (10")
9. HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 13" (SEE NOTE 6)
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (2")
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (11")
10. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80 (2")

(10A) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (2")

11. LEVELING BINDER (MACHINE METHOD), N70 (VARIABLE DEPTH)
12. AGGREGATE SUBGRADE, 12"
13. STRIP REFLECTIVE CRACK CONTROL TREATMENT (TYPE A)
14. HOT-MIX ASPHALT BASE COURSE WIDENING, 12"
15. HOT-MIX ASPHALT BASE COURSE, 11"
16. HOT-MIX ASPHALT SHOULDERS, 8"
17. AGGREGATE SHOULDER, TYPE B 6"
18. SUBBASE GRANULAR MATERIAL, TYPE B, 6"
19. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 ($1^1/_2$")
20. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 ($2^1/_2$" & VAR DEPTH)
21. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (9")

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

PROPOSED TYPICAL SECTIONS ILLINOIS ROUTE 176

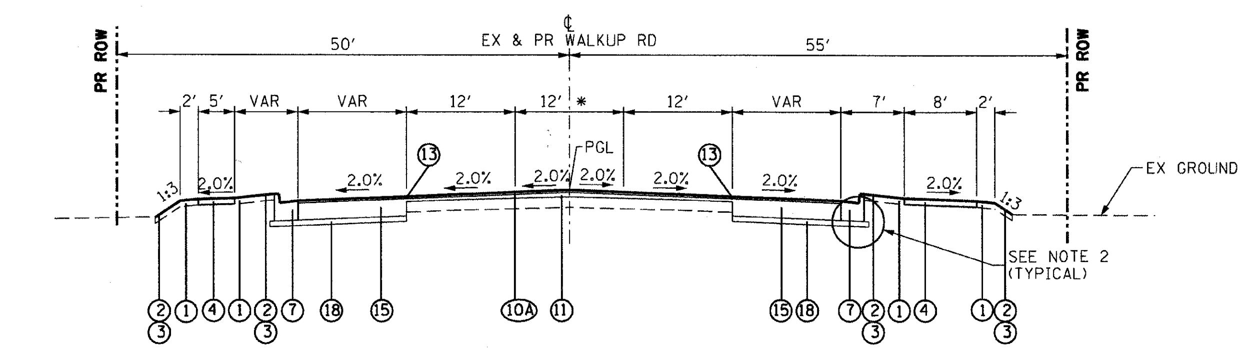
SCALE: N.T.S. | DRAWN BY: RJS
DATE: 04/15/11 | CHECKED BY: MCD

TENG

TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS

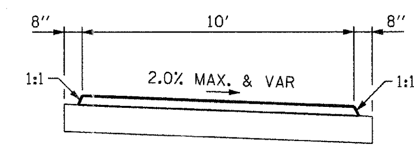
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	016
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



WALKUP AVE - PROPOSED TYPICAL SECTION

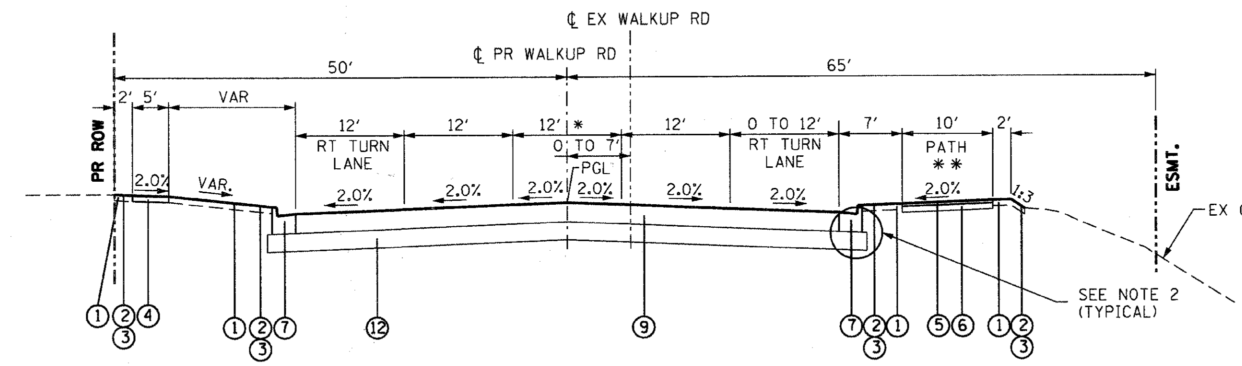
STA 43+22.55 TO STA 45+00.00



DETAIL B

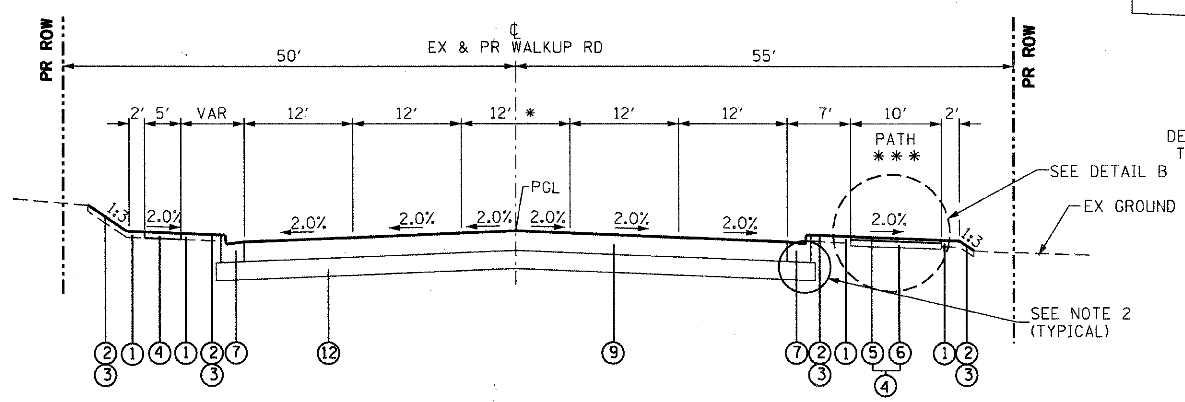
SHARED USE PATH

DETAIL WITH BIKEPATH SLOPE TOWARD PAVEMENT SIMILAR.



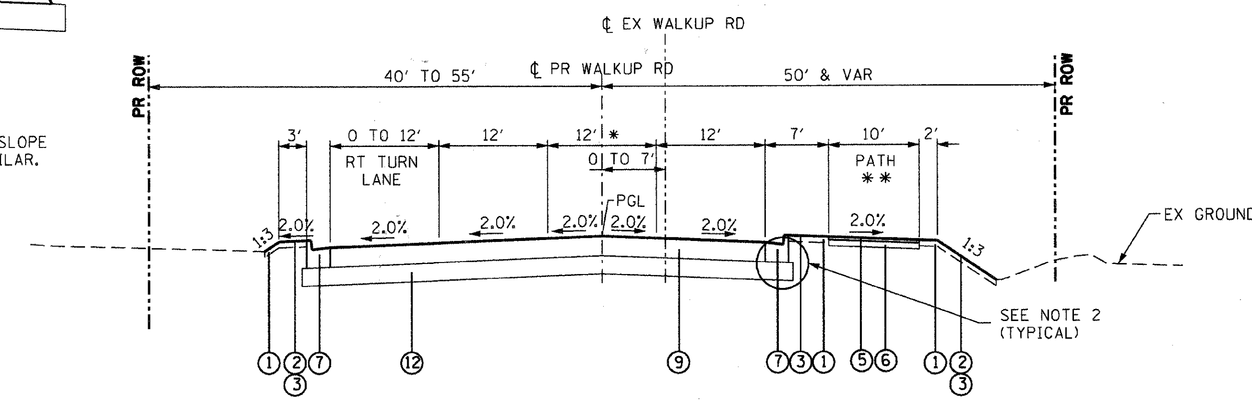
WALKUP ROAD - PROPOSED TYPICAL SECTION

STA 59+96.66 TO STA 63+38.86 (VETERAN ACRES PARK ENTRANCE AND TALISMON DR)



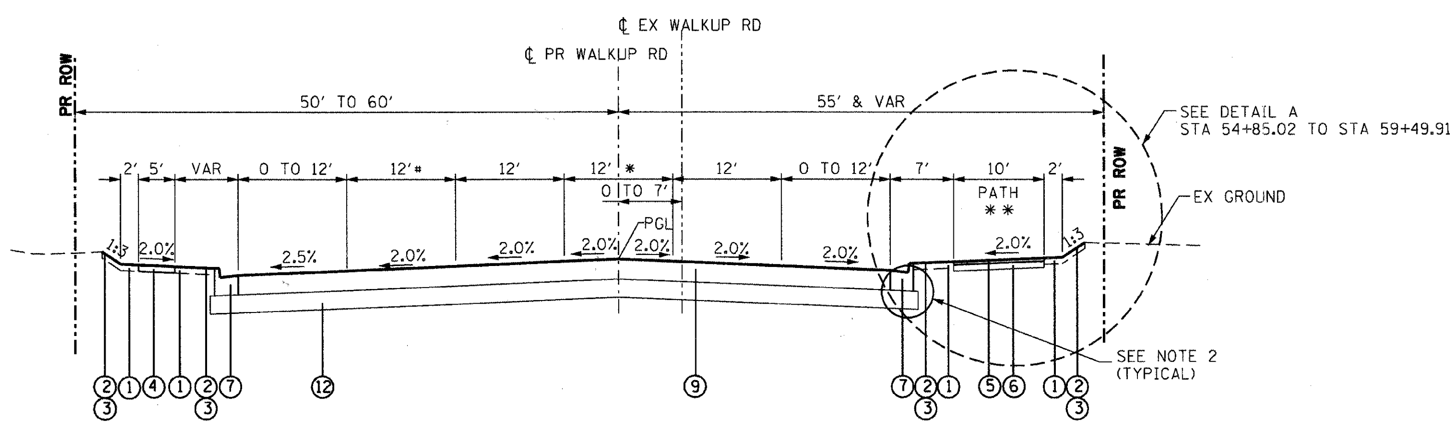
WALKUP AVE - PROPOSED TYPICAL SECTION

STA 45+00.00 TO STA 50+00.00 (IL RTE 176) (SEE NOTE 6)



WALKUP ROAD - PROPOSED TYPICAL SECTION

STA 63+38.86 (TALISMON DR) TO STA 67+09.00

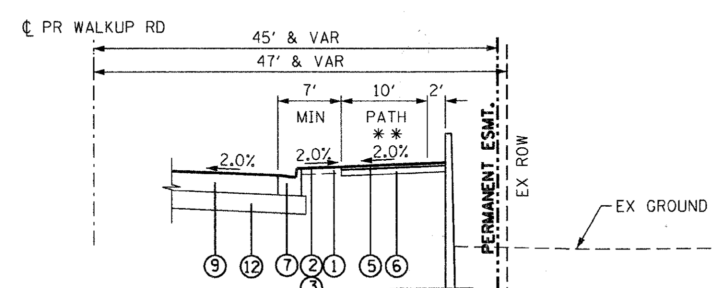


WALKUP ROAD - PROPOSED TYPICAL SECTION

STA 50+00.00 (IL RTE 176) TO STA 59+96.66 (SEE NOTE 6)

* VARIES 12' TO 0' FROM STA 56+73.30 TO STA 58+38.72

0' FROM STA 58+38.72 TO STA 58+97.91



DETAIL A

RETAINING WALL
SEE STRUCTURAL PLANS
SHEET 195 FOR
RETAINING WALL LIMITS

NOTES:

1. SEE SHEET 028 AND CROSS SECTIONS FOR DEPTHS AND LOCATIONS OF UNDERCUT AND POROUS GRANULAR EMBANKMENT, SUBGRADE.
2. EXTEND THE SUBBASE OR AGGREGATE SUBGRADE AND ANY REQUIRED UNDERCUT 6" PAST THE BACK OF CURB AND BITUMINOUS WIDENING.
3. COMBINATION CONCRETE CURB AND GUTTER SHALL BE CONSTRUCTED FULL THICKNESS ON THE TOP OF THE SUBBASE.
4. THE BOTTOM SLOPE OF THE COMBINATION CONCRETE CURB AND GUTTER CONSTRUCTED ADJACENT TO THE PAVEMENT SHALL BE THE SAME SLOPE AS THE ADJACENT PAVEMENT.
5. AGGREGATE BASE COURSE TYPE B SHALL MEET ALL THE REQUIREMENTS FOR AGGREGATE BASE COURSE TYPE A EXCEPT THAT ADDING WATER TO THE AGGREGATE (BY USE OF A CONTROLLED AGGREGATE MIXING SYSTEM) BEFORE IT IS DEPOSITED ON THE SUBGRADE WILL NOT BE REQUIRED.
6. WALKUP AVE/WALKUP RD STA 47+60 TO STA 52+70
   HOT-MIX ASPHALT PAVEMENT (FULL DEPTH, 14")
   POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,
   STONE MATRIX ASPHALT, N80 (2")
   POLYMERIZED HOT-MIX ASPHALT BINDER COURSE,
   STONE MATRIX ASPHALT, N80 (2")
   POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 (10")

* LEFT TURN LANE/ PAINTED MEDIAN/ TWO WAY LEFT TURN LANE

** SEE PLAN FOR LOCATION OF SHARED USE PATH

*** 8' SIDEWALK FROM STA 45+00 TO STA 46+56

PROPOSED LEGEND

1. TOPSOIL, 4"
2. SEEDING, CLASS 2A & EROSION CONTROL BLANKET
3. SODDING, SALT TOLERANT
4. PORTLAND CEMENT CONCRETE SIDEWALK, 5"
5. HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (2")
6. AGGREGATE BASE COURSE, TYPE B, 6" (SEE NOTE 5)
7. COMBINATION CURB & GUTTER, TYPE B-6.24 (SEE NOTE 3 & 4)
8. HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 14"
   POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,
   STONE MATRIX ASPHALT, N80 (2")
   POLYMERIZED HOT-MIX ASPHALT BINDER COURSE,
   STONE MATRIX ASPHALT, N80 (2")
   POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 (10")
9. HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 13" (SEE NOTE 6)
   HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (2")
   HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (11")
10. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,
    STONE MATRIX ASPHALT, N80 (2")

(10A) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (2")

11. LEVELING BINDER (MACHINE METHOD), N70 (VARIABLE DEPTH)
12. AGGREGATE SUBGRADE, 12"
13. STRIP REFLECTIVE CRACK CONTROL TREATMENT (TYPE A)
14. HOT-MIX ASPHALT BASE COURSE WIDENING, 12"
15. HOT-MIX ASPHALT BASE COURSE, 11"
16. HOT-MIX ASPHALT SHOULDERS, 8"
17. AGGREGATE SHOULDER, TYPE B 6"
18. SUBBASE GRANULAR MATERIAL, TYPE B, 6"
19. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (1½")
20. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (2½" & VAR DEPTH)
21. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (9")

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

PROPOSED TYPICAL SECTIONS WALKUP AVE & WALKUP ROAD SHEET 1 OF 4

SCALE: N.T.S. DRAWN BY: RJS

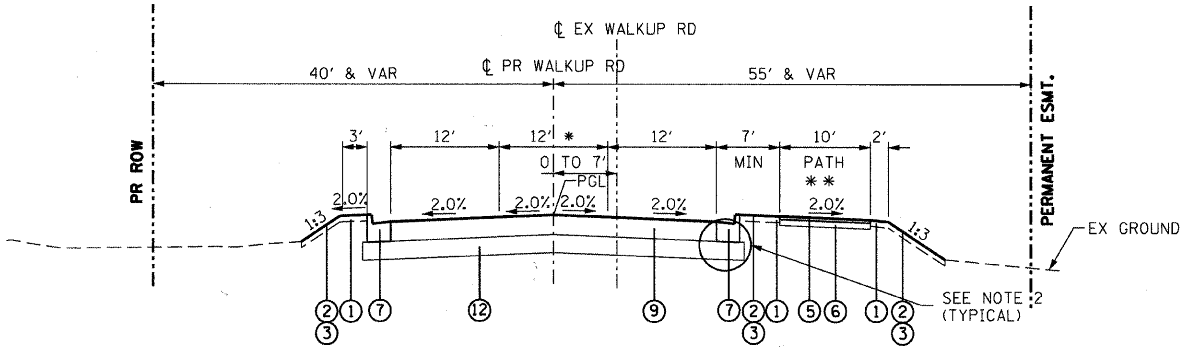
DATE: 04/15/11 CHECKED BY: MCD

TENG

TENG & ASSOCIATES, INC.

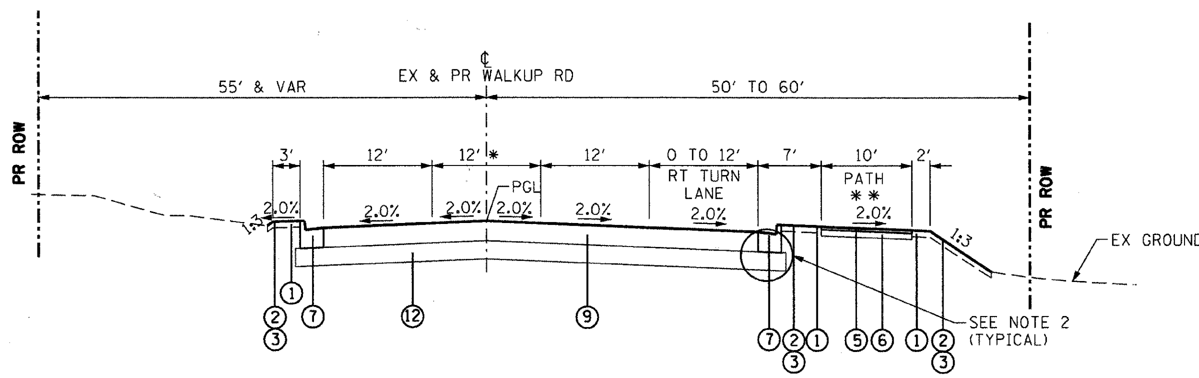
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	017
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



WALKUP ROAD - PROPOSED TYPICAL SECTION

STA 67+09.00 TO STA 76+42.41



WALKUP ROAD - PROPOSED TYPICAL SECTION

STA 76+42.41 TO STA 81+53.97 (BURNING BUSH TR)

* LEFT TURN LANE/ PAINTED MEDIAN/ TWO WAY LEFT TURN LANE

** SEE PLAN FOR LOCATION OF SHARED USE PATH

NOTES:

1. SEE SHEET 028 AND CROSS SECTIONS FOR DEPTHS AND LOCATIONS OF UNDERCUT AND POROUS GRANULAR EMBANKMENT, SUBGRADE.
2. EXTEND THE SUBBASE OR AGGREGATE SUBGRADE AND ANY REQUIRED UNDERCUT 6" PAST THE BACK OF CURB AND BITUMINOUS WIDENING.
3. COMBINATION CONCRETE CURB AND GUTTER SHALL BE CONSTRUCTED FULL THICKNESS ON THE TOP OF THE SUBBASE.
4. THE BOTTOM SLOPE OF THE COMBINATION CONCRETE CURB AND GUTTER CONSTRUCTED ADJACENT TO THE PAVEMENT SHALL BE THE SAME SLOPE AS THE ADJACENT PAVEMENT.
5. AGGREGATE BASE COURSE TYPE B SHALL MEET ALL THE REQUIREMENTS FOR AGGREGATE BASE COURSE TYPE A EXCEPT THAT ADDING TO THE AGGREGATE (BY USE OF A CONTROLLED AGGREGATE MIXING SYSTEM) BEFORE IT IS DEPOSITED ON THE SUBGRADE WILL NOT BE REQUIRED.

PROPOSED LEGEND

1. TOPSOIL, 4"
2. SEEDING, CLASS 2A & EROSION CONTROL BLANKET
3. SODDING, SALT TOLERANT
4. PORTLAND CEMENT CONCRETE SIDEWALK, 5"
5. HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (2")
6. AGGREGATE BASE COURSE, TYPE B, 6" (SEE NOTE 5)
7. COMBINATION CURB & GUTTER, TYPE B-6.24 (SEE NOTE 3 & 4)
8. HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 14"
   POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80 (2")
   POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80 (2")
   POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 (10")
9. HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 13" (SEE NOTE 6)
   HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (2")
   HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (11")
10. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80 (2")

10A. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (2")

11. LEVELING BINDER (MACHINE METHOD), N70 (VARIABLE DEPTH)
12. AGGREGATE SUBGRADE, 12"
13. STRIP REFLECTIVE CRACK CONTROL TREATMENT (TYPE A)
14. HOT-MIX ASPHALT BASE COURSE WIDENING, 12"
15. HOT-MIX ASPHALT BASE COURSE, 11"
16. HOT-MIX ASPHALT SHOULDERS, 8"
17. AGGREGATE SHOULDER, TYPE B 6"
18. SUBBASE GRANULAR MATERIAL, TYPE B, 6"
19. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (1½")
20. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (2½" & VAR DEPTH)
21. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (9")

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

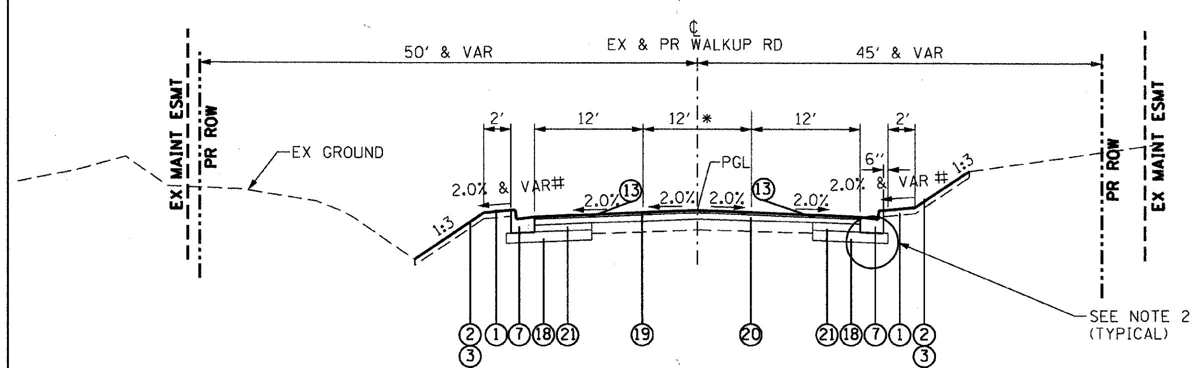
PROPOSED TYPICAL SECTIONS
WALKUP ROAD
SHEET 2 OF 4

SCALE: N.T.S. DRAWN BY: RJS
DATE: 04/15/11 CHECKED BY: MCD

TENG
TENG & ASSOCIATES, INC.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	018
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



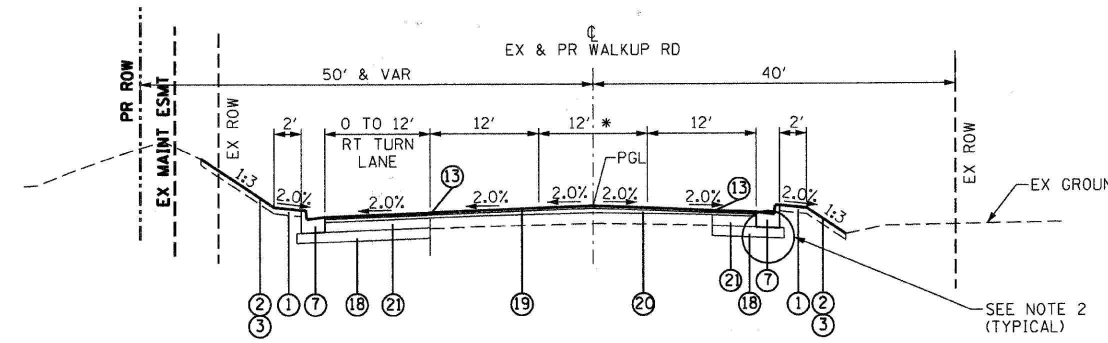
WALKUP ROAD - PROPOSED TYPICAL SECTION

STA 232+85.92 TO STA 236+20.17 (COACHLIGHT RD)

STA 240+51.56 TO STA 249+31.12 (RAINTREE DR)

STA 253+62.36 TO STA 258+70.00

STA 279+99.00 TO STA 299+00.00 ***



WALKUP ROAD - PROPOSED TYPICAL SECTION

STA 236+20.17 (COACHLIGHT RD) TO STA 241+51.56

STA 249+31.12 (RAINTREE DR) TO STA 253+62.36

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes	
FULL DEPTH PAVEMENT		
POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, N80; 2"	3.5% @ 80 GYR	
POLYMERIZED HMA BINDER COURSE, STONE MATRIX ASPHALT, N80; 2"	3.5% @ 80 GYR	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm); 2"	4% @ 70 GYR	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; 11"	4% @ 70 GYR	(IN 4 LIFTS)
POLYMERIZED HMA BINDER COURSE, IL-19.0, N90; 10"	4% @ 90 GYR	(IN 3 LIFTS)
PAVEMENT RESURFACING		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm); 1½"	4% @ 70 GYR	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; 2½" MIN. AND VARIES	4% @ 70 GYR	
PAVEMENT WIDENING		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm); 1½"	4% @ 70 GYR	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; 2½" MIN. AND VARIES	4% @ 70 GYR	
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm); 9"	4% @ 70 GYR	(IN 3 LIFTS)
TEMPORARY PAVEMENT		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm); 1½"	4% @ 50 GYR	
HOT-MIX ASPHALT BINDER COURSE, N50, (IL-19.0) 6½"	4% @ 50 GYR	(IN 2 LIFTS)
SHOULDERS		
HOT-MIX ASPHALT SHOULDER, 8" (HMA BINDER IL-19mm)	2% @ 30 GYR	(IN 3 LIFTS)
LEVELING BINDER		
LEVELING BINDER (MACHINE METHOD), N70, (IL 9.5 MM), VARIES	4% @ 70 GYR	
DRIVEWAYS		
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL 9.5 mm); 2"	4% @ 50 GYR	
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm); (SEE SHEET 045)	4% @ 50 GYR	(IN 2 LIFTS)
BIKEPATH		
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL 9.5 mm); 2"	4% @ 50 GYR	
PATCHING		
CLASS D PATCHES, (HMA BINDER IL-19 mm); 9"	4% @ 70 GYR	(IN 3 LIFTS)

(1) THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/ IN.
(2) THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.
(3) THE CONTRACTOR SHALL MILL BEFORE PATCHING.

STRUCTURAL DESIGN TRAFFIC: 2027

PV = 18,519 SU = 814 MU = 1018

ROAD/STREET CLASSIFICATION: CLASS I

PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:

P = 32 S = 45 M = 45

TRAFFIC FACTOR ACTUAL TF = 8.11 AC TYPE = 20

MINIMUM TF = 6.40

PG GRADE: BINDER = ________ SURFACE = ________

SUBGRADE SUPPORT RATING:

SSR = POOR

NOTES:

1. SEE SHEET 028 AND CROSS SECTIONS FOR DEPTHS AND LOCATIONS OF UNDERCUT AND POROUS GRANULAR EMBANKMENT, SUBGRADE.
2. EXTEND THE SUBBASE OR AGGREGATE SUBGRADE AND ANY REQUIRED UNDERCUT 6" PAST THE BACK OF CURB AND BITUMINOUS WIDENING.
3. COMBINATION CONCRETE CURB AND GUTTER SHALL BE CONSTRUCTED FULL THICKNESS ON THE TOP OF THE SUBBASE.
4. THE BOTTOM SLOPE OF THE COMBINATION CONCRETE CURB AND GUTTER CONSTRUCTED ADJACENT TO THE PAVEMENT SHALL BE THE SAME SLOPE AS THE ADJACENT PAVEMENT.
5. AGGREGATE BASE COURSE TYPE B SHALL MEET ALL THE REQUIREMENTS FOR AGGREGATE BASE COURSE TYPE A EXCEPT THAT ADDING WATER TO THE AGGREGATE (BY USE OF A CONTROLLED AGGREGATE MIXING SYSTEM) BEFORE IT IS DEPOSITED ON THE SUBGRADE WILL NOT BE REQUIRED.
6. WALKUP AVE/WALKUP RD STA 47+60 TO STA 52+70
HOT-MIX ASPHALT PAVEMENT (FULL DEPTH, 14")
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,
STONE MATRIX ASPHALT, N80 (2")
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE,
STONE MATRIX ASPHALT, N80 (2")
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 (10")

\# 2% AND VARIES. MAX 5.0%
* LEFT TURN LANE/ PAINTED MEDIAN/ TWO WAY LEFT TURN LANE
** SEE PLAN FOR LOCATION OF SHARED USE PATH
*** SEE PLAN FOR LOCATION OF CURB AND GUTTER TRANSITION TO SHOULDER

PROPOSED LEGEND

(1) TOPSOIL, 4"
(2) SEEDING, CLASS 2A & EROSION CONTROL BLANKET
(3) SODDING, SALT TOLERANT
(4) PORTLAND CEMENT CONCRETE SIDEWALK, 5"
(5) HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (2")
(6) AGGREGATE BASE COURSE, TYPE B, 6" (SEE NOTE 5)
(7) COMBINATION CURB & GUTTER, TYPE B-6.24 (SEE NOTE 3 & 4)
(8) HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 14"
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,
STONE MATRIX ASPHALT, N80 (2")
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE,
STONE MATRIX ASPHALT, N80 (2")
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 (10")
(9) HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 13" (SEE NOTE 6)
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (2")
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (11")
(10) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE,
STONE MATRIX ASPHALT, N80 (2")
(10A) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (2")
(11) LEVELING BINDER (MACHINE METHOD), N70 (VARIABLE DEPTH)
(12) AGGREGATE SUBGRADE, 12"
(13) STRIP REFLECTIVE CRACK CONTROL TREATMENT (TYPE A)
(14) HOT-MIX ASPHALT BASE COURSE WIDENING, 12"
(15) HOT-MIX ASPHALT BASE COURSE, 11"
(16) HOT-MIX ASPHALT SHOULDERS, 8"
(17) AGGREGATE SHOULDER, TYPE B 6"
(18) SUBBASE GRANULAR MATERIAL, TYPE B, 6"
(19) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (1½")
(20) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (2½" & VAR DEPTH)
(21) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (9")

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

PROPOSED TYPICAL SECTIONS WALKUP ROAD SHEET 3 OF 4

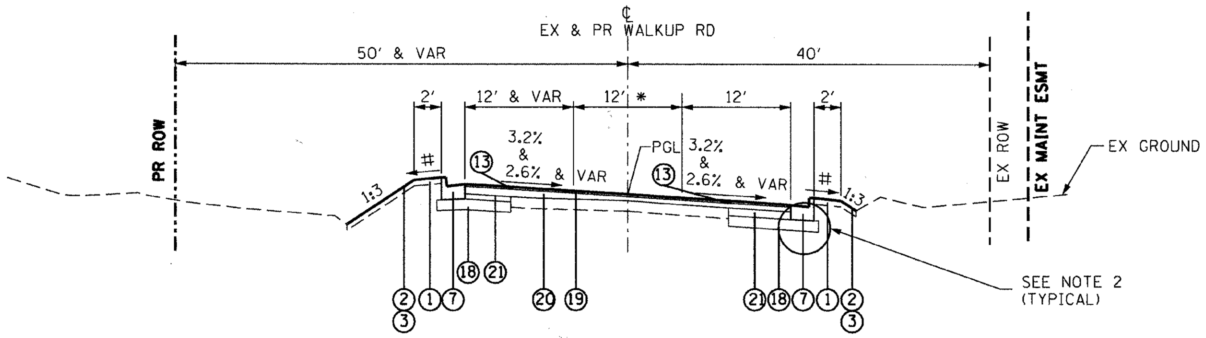
SCALE: N.T.S. DRAWN BY: RJS
DATE: 04/15/11 CHECKED BY: MCD

TENG
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS 205 N. MICHIGAN AVE. CHICAGO, IL

..\TS02\A00I.DGN, ..\TS02\A002.DGN, ..\B099\A00I.DGN \\FS_0044\AM\VAULT\D-TRANS_07\2202\300-03\CIVIL\CAD\02 CONTRACT\A_TENG\SHEET\TS02\A007.SHT STANKIRJ
4-14-2011, 15:06:59

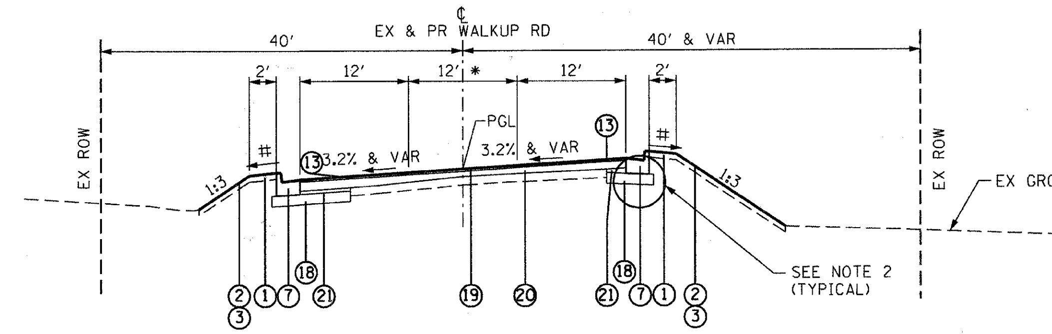
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	019
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



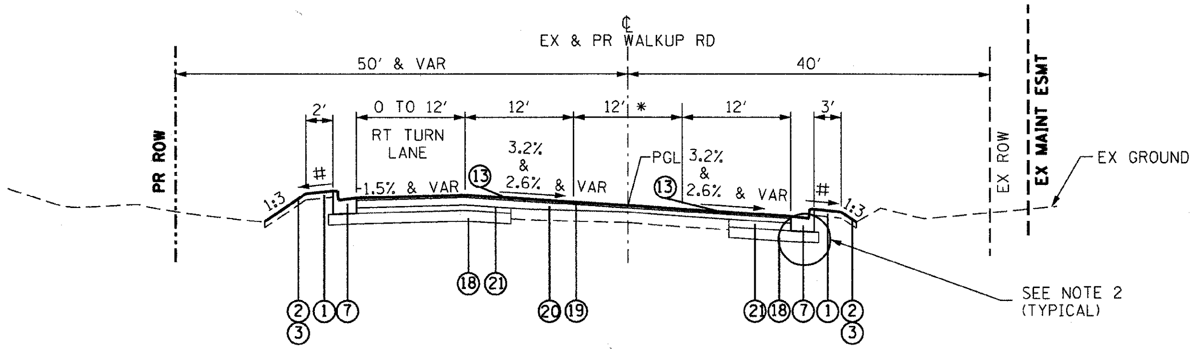
WALKUP ROAD - PROPOSED TYPICAL SECTION

STA 258+70.00 TO STA 265+51.46 (MASON HILL RD)
STA 269+82.55 TO STA 279+99.00



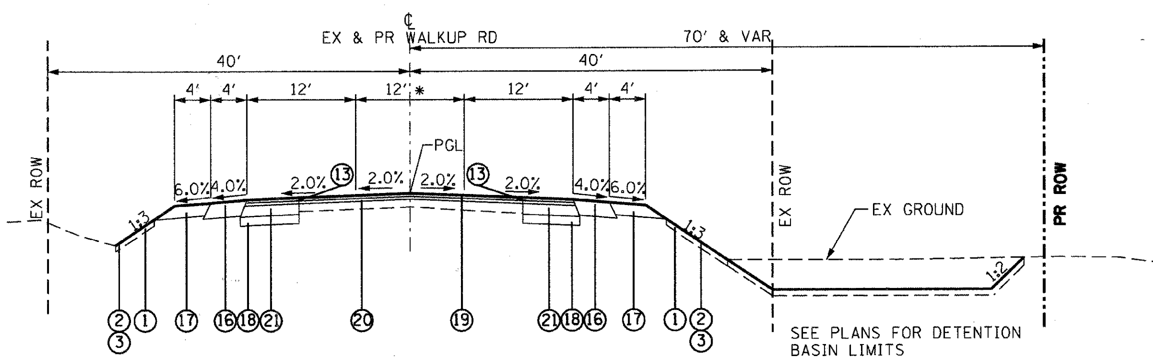
WALKUP ROAD - PROPOSED TYPICAL SECTION

STA 225+00.00 TO STA 228+50.34 (ANVIL RD)



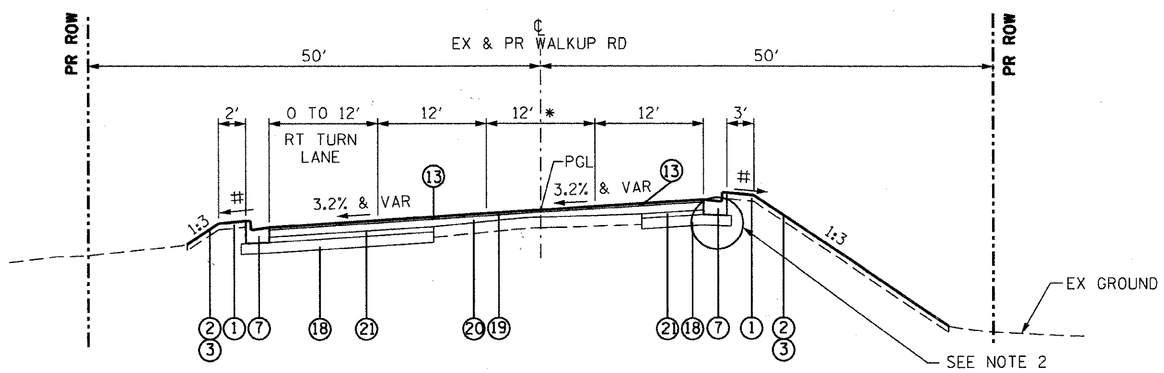
WALKUP ROAD - PROPOSED TYPICAL SECTION

STA 265+51.46 (MASON HILL RD) TO STA 269+82.55



WALKUP ROAD - PROPOSED TYPICAL SECTION

STA 299+00.00 TO 307+45.00 ***



WALKUP ROAD - PROPOSED TYPICAL SECTION

STA 228+50.34 (ANVIL RD) TO STA 232+85.92

- \# 2% AND VARIES. MAX 5.0%
- * LEFT TURN LANE/ PAINTED MEDIAN/ TWO WAY LEFT TURN LANE
- ** SEE PLAN FOR LOCATION OF SHARED USE PATH
- *** SEE PLAN FOR LOCATION OF CURB AND GUTTER TRANSITION TO SHOULDER

NOTES:

1. SEE SHEET 028 AND CROSS SECTIONS FOR DEPTHS AND LOCATIONS OF UNDERCUT AND POROUS GRANULAR EMBANKMENT, SUBGRADE.
2. EXTEND THE SUBBASE OR AGGREGATE SUBGRADE AND ANY REQUIRED UNDERCUT 6" PAST THE BACK OF CURB AND BITUMINOUS WIDENING.
3. COMBINATION CONCRETE CURB AND GUTTER SHALL BE CONSTRUCTED FULL THICKNESS ON THE TOP OF THE SUBBASE.
4. THE BOTTOM SLOPE OF THE COMBINATION CONCRETE CURB AND GUTTER CONSTRUCTED ADJACENT TO THE PAVEMENT SHALL BE THE SAME SLOPE AS THE ADJACENT PAVEMENT.
5. AGGREGATE BASE COURSE TYPE B SHALL MEET ALL THE REQUIREMENTS FOR AGGREGATE BASE COURSE TYPE A EXCEPT THAT ADDING TO THE AGGREGATE (BY USE OF A CONTROLLED AGGREGATE MIXING SYSTEM) BEFORE IT IS DEPOSITED ON THE SUBGRADE WILL NOT BE REQUIRED.

PROPOSED LEGEND

1. TOPSOIL, 4"
2. SEEDING, CLASS 2A & EROSION CONTROL BLANKET
3. SODDING, SALT TOLERANT
4. PORTLAND CEMENT CONCRETE SIDEWALK, 5"
5. HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (2")
6. AGGREGATE BASE COURSE, TYPE B, 6" (SEE NOTE 5)
7. COMBINATION CURB & GUTTER, TYPE B-6.24 (SEE NOTE 3 & 4)
8. HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 14"
   POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80 (2")
   POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80 (2")
   POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 (10")
9. HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 13" (SEE NOTE 6)
   HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (2")
   HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (11")
10. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80 (2")

(10A) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (2")

11. LEVELING BINDER (MACHINE METHOD), N70 (VARIABLE DEPTH)
12. AGGREGATE SUBGRADE, 12"
13. STRIP REFLECTIVE CRACK CONTROL TREATMENT (TYPE A)
14. HOT-MIX ASPHALT BASE COURSE WIDENING, 12"
15. HOT-MIX ASPHALT BASE COURSE, 11"
16. HOT-MIX ASPHALT SHOULDERS, 8"
17. AGGREGATE SHOULDER, TYPE B 6"
18. SUBBASE GRANULAR MATERIAL, TYPE B, 6"
19. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (1½")
20. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (2½" & VAR DEPTH)
21. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (9")

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

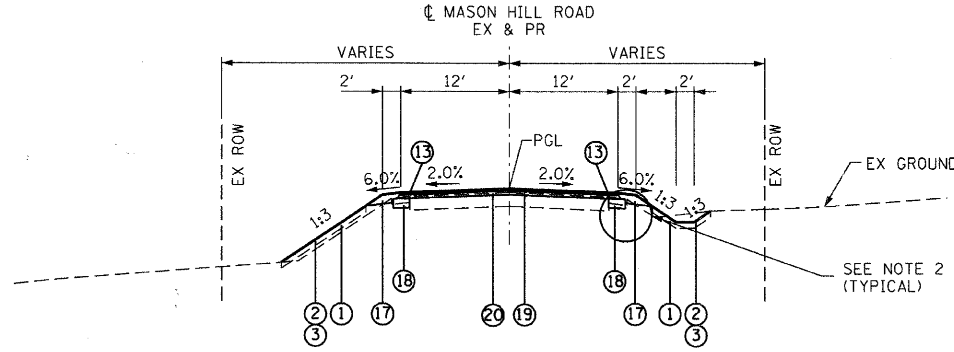
PROPOSED TYPICAL SECTIONS WALKUP ROAD SHEET 4 OF 4

SCALE: N.T.S. DRAWN BY: RJS
DATE: 04/15/11 CHECKED BY: MCD

TENG
TENG & ASSOCIATES, INC.

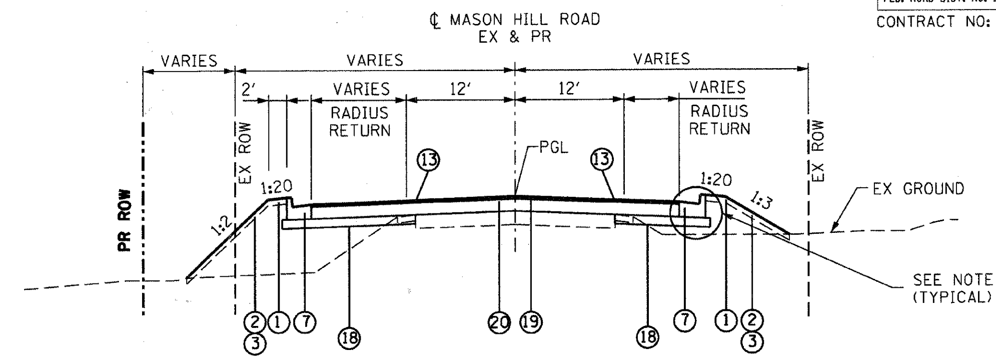
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	020
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



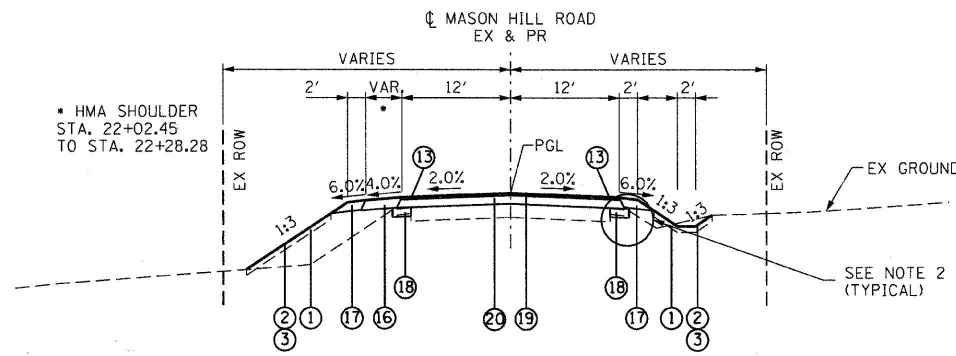
MASON HILL ROAD - PROPOSED TYPICAL SECTION

STA 20+40.00 TO STA 21+35.00



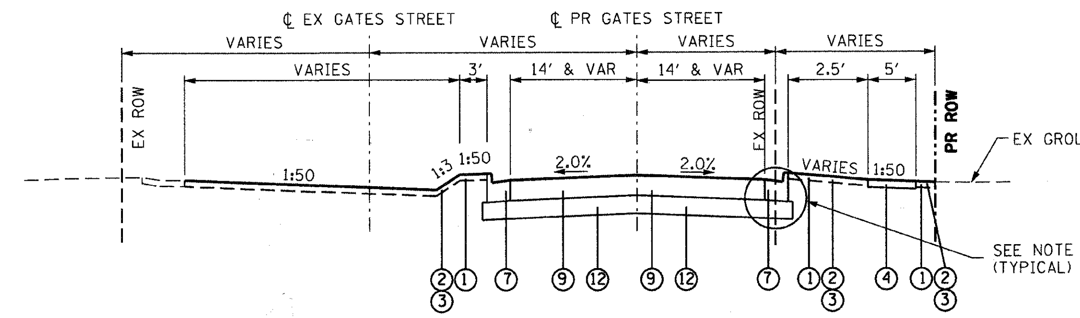
MASON HILL ROAD - PROPOSED TYPICAL SECTION

STA 22+58.52 TO STA 23+44.32



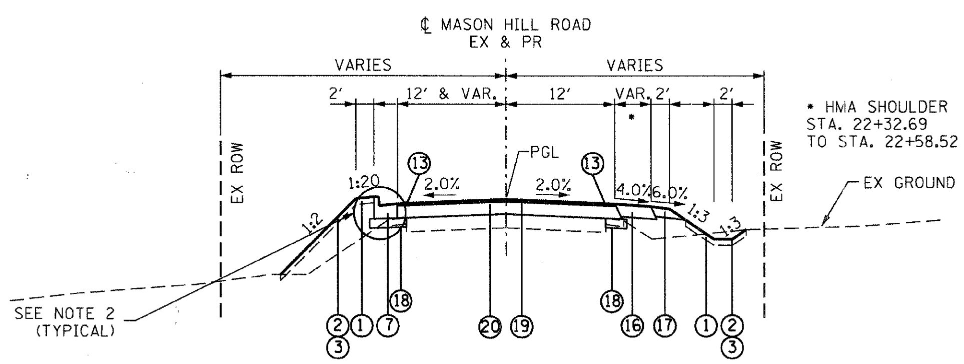
MASON HILL ROAD - PROPOSED TYPICAL SECTION

STA 21+35.00 TO STA 22+28.28



GATES STREET - PROPOSED TYPICAL SECTION

STA 30+30.00 TO STA 31+18.05



MASON HILL ROAD - PROPOSED TYPICAL SECTION

STA 22+28.28 TO STA 22+58.52

NOTES:

1. SEE SHEET 028 AND CROSS SECTIONS FOR DEPTHS AND LOCATIONS OF UNDERCUT AND POROUS GRANULAR EMBANKMENT, SUBGRADE.
2. EXTEND THE SUBBASE OR AGGREGATE SUBGRADE AND ANY REQUIRED UNDERCUT 6" PAST THE BACK OF CURB AND BITUMINOUS WIDENING.
3. COMBINATION CONCRETE CURB AND GUTTER SHALL BE CONSTRUCTED FULL THICKNESS ON THE TOP OF THE SUBBASE.
4. THE BOTTOM SLOPE OF THE COMBINATION CONCRETE CURB AND GUTTER CONSTRUCTED ADJACENT TO THE PAVEMENT SHALL BE THE SAME SLOPE AS THE ADJACENT PAVEMENT.
5. AGGREGATE BASE COURSE TYPE B SHALL MEET ALL THE REQUIREMENTS FOR AGGREGATE BASE COURSE TYPE A EXCEPT THAT ADDING TO THE AGGREGATE (BY USE OF A CONTROLLED AGGREGATE MIXING SYSTEM) BEFORE IT IS DEPOSITED ON THE SUBGRADE WILL NOT BE REQUIRED.

PROPOSED LEGEND

1. TOPSOIL, 4"
2. SEEDING, CLASS 2A & EROSION CONTROL BLANKET
3. SODDING, SALT TOLERANT
4. PORTLAND CEMENT CONCRETE SIDEWALK, 5"
5. HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (2")
6. AGGREGATE BASE COURSE, TYPE B, 6" (SEE NOTE 5)
7. COMBINATION CURB & GUTTER, TYPE B-6.24 (SEE NOTE 3 & 4)
8. HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 14"
   POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80 (2")
   POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80 (2")
   POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 (10")
9. HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 13" (SEE NOTE 6)
   HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (2")
   HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (11")
10. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80 (2")

10A. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (2")

11. LEVELING BINDER (MACHINE METHOD), N70 (VARIABLE DEPTH)
12. AGGREGATE SUBGRADE, 12"
13. STRIP REFLECTIVE CRACK CONTROL TREATMENT (TYPE A)
14. HOT-MIX ASPHALT BASE COURSE WIDENING, 12"
15. HOT-MIX ASPHALT BASE COURSE, 11"
16. HOT-MIX ASPHALT SHOULDERS, 8"
17. AGGREGATE SHOULDER, TYPE B 6"
18. SUBBASE GRANULAR MATERIAL, TYPE B, 6"
19. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (1½")
20. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (2½" & VAR DEPTH)
21. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (9")

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

PROPOSED TYPICAL SECTIONS SIDE STREETS

SCALE: N.T.S.
DRAWN BY: RJS
DATE: 04/15/11
CHECKED BY: MCD

TENG

TENG & ASSOCIATES, INC.

SCHEDULE OF QUANTITIES

TOTAL 3179 TON

40603340 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70

LOCATION	FR STA	WIDTH	TO STA	WIDTH	LENGTH	SUBTOTALS
RESURFACING (LEFT SIDE)						
WALKUP	225+00.	18.0	307+45.	18.0	8245.0	1511.8
RESURFACING (RIGHT SIDE)						
WALKUP	225+00.	18.0	307+45.	18.0	8245.0	1385.2
SIDE STREETS ALONG WALKUP						
ANVIL DR						31.3
COACHLIGHT RD						28.5
RAINTREE DR						28.4
MASON HILL RD						73.9
MASON HILL RD BUMPOUT						14.3
RESURFACING (WALKUP AVE)						
WALKUP AVE	43+22.6		45+00.0			105.2

TOTAL 13974 TON

40603085 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70

	SUBTOTALS
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	7,642
Var Depth Binder Course	346
9" WIDENING (LEFT SIDE)	
225+00 307+45	3145
9" WIDENING (RIGHT SIDE)	
225+00 307+45	2625
SIDE STREETS	
SHENANDOAH CT	38
ANVIL DR	75
COACHLIGHT RD	76
RAINTREE DR	27

TOTAL 465 TON

40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50

LOCATION	FR STA	WIDTH	TO STA	WIDTH	LENGTH	SUBTOTALS
SHARED USE PATH						27.5
WALKUP	47+10	10	49+31	10	220.98	52.3
WALKUP	50+80	10	55+00	10	420.33	99.0
WALKUP	55+00	10	62+95	10	795.36	76.7
WALKUP	63+83	10	70+00	10	616.58	49.1
WALKUP	70+00	10	73+95	10	394.65	75.0
WALKUP	74+24	10	80+26	10	602.71	
RTE 176 2" DRIVEWAY PAVEMENT						
HMA DRIVEWAY PAVEMENT 8"						62.7
HMA DRIVEWAY PAVEMENT 10"						22.5

TOTAL 25320 SQ YD

44000100 PAVEMENT REMOVAL

LOCATION	FR STA	WIDTH FT	TO STA	WIDTH FT	AREA SQ FT	AREA SQ YD	SUBTOTALS
	Walkup Road				Microstation		
WALKUP	45+00	VAR	49+39	VAR	19990.6	2221.2	2221.2
WALKUP	49+39	VAR	81+54	VAR	141152	15683.6	15683.6
WALKUP	248+47.	VAR	249+00	VAR	187	20.8	20.8
					Microstation		
IL RTE 176	43+13	VAR	48+49	VAR	29028	3225.3	3225.3
IL RTE 176	51+00	VAR	60+08	VAR	37521	4169.0	4169.0

TOTAL 9102 FOOT

44000500 COMBINATION CURB AND GUTTER REMOVAL

ROAD NAME	FR STA	TO STA	LT/RT	LENGTH	SUBTOTALS
WALKUP	43+35	46+52	LT	317	317
WALKUP	RAD 46+63	-	LT	28	28
WALKUP	RAD 43+35	-	RT	50	50
WALKUP	43+72	46+74	RT	302	302
WALKUP	RAD 46+90	-	RT	107	107
WALKUP	RAD 46+96	-	LT	131	131
WALKUP	47+13	49+22	LT	209	209
WALKUP	47+52	49+31	RT	179	179
WALKUP	RAD 49+68	-	LT	49	49
WALKUP	RAD 49+74	-	RT	70	70
WALKUP	RAD 50+28	-	LT	52	52
WALKUP	RAD 50+30	-	RT	51	51
WALKUP	50+55	62+80	RT	1225	1225
WALKUP	50+54	52+59	LT	205	205
WALKUP	RAD 52+77	-	LT	32	32
WALKUP	52+59	53+27	LT	68	68
WALKUP	RAD 53+13	-	LT	37	37
WALKUP	53+27	54+38	LT	111	111
WALKUP	RAD 54+60	-	LT	64	64
WALKUP	RAD 55+28	-	LT	71	71
WALKUP	RAD 63+09	-	RT	55	55
WALKUP	RAD 63+62	-	RT	61	61
WALKUP	55+67	59+15	LT	348	348
WALKUP	RAD 59+33	-	LT	54	54
WALKUP	RAD 59+71	-	LT	62	62
WALKUP	59+93	62+85	LT	292	292
WALKUP	RAD 63+06	-	LT	65	65
WALKUP	RAD 63+65	-	LT	74	74
WALKUP	63+98	65+92	LT	194	194
WALKUP	77+27	80+29	RT	302	302
WALKUP	78+74	81+54	LT	280	280
WALKUP	RAD 80+53	-	RT	63	63
WALKUP	RAD 81+00	-	RT	104	104
					0
					0
IL RTE 176	41+68	43+25	LT	157	157
IL RTE 176	RAD 43+25	-	LT	50	50
IL RTE 176	RAD 43+64	-	LT	50	50
IL RTE 176	43+85	44+79	LT	94	94
IL RTE 176	RAD 44+84	-	LT	33	33
IL RTE 176	RAD 45+26	-	LT	47	47
IL RTE 176	45+49	49+49	LT	400	400
IL RTE 176	50+57	61+24	LT	1067	1067
IL RTE 176	41+67	48+12	RT	645	645
IL RTE 176	48+47	49+48	RT	101	101
IL RTE 176	50+55	52+06	RT	151	151
IL RTE 176	RAD 52+24	-	RT	73	73
IL RTE 176	RAD 52+60	-	RT	74	74
IL RTE 176	52+76	55+99	RT	323	323
IL RTE 176	RAD 56+13	-	RT	69	69
IL RTE 176	RAD 56+50	-	RT	70	70
IL RTE 176	56+64	59+22	RT	258	258
IL RTE 176	RAD 59+37	-	RT	54	54
IL RTE 176	RAD 59+75	-	RT	55	55
IL RTE 176	59+89	60+08	RT	19	19

TOTAL 13068 SQ FT

44000600 SIDEWALK REMOVAL

LOCATION	FR STA	WIDTH	TO STA	AREA SF	LT/RT	SUBTOTALS
WALKUP	43+39	VAR	45+51	970.7	LT	970.7
WALKUP	45+73	VAR	46+69	463.13	LT	463.13
WALKUP	43+54	VAR	46+89	1774	RT	1774
WALKUP	46+92	VAR	48+73	931	LT	931
WALKUP	47+06	VAR	49+71	1125	RT	1125
WALKUP	48+89	VAR	49+65	282	LT	282
WALKUP	50+42	VAR	51+77	551	RT	551
WALKUP	50+20	VAR	53+10	1461	LT	1461
WALKUP	54+61	VAR	-	28	LT	28
WALKUP	59+68	VAR	60+92	557	LT	557
WALKUP	63+10	VAR	-	114	LT	114
WALKUP	63+67	VAR	-	136	LT	136
IL RTE 176	41+67	VAR	43+34	840.92	LT	840.92
IL RTE 176	43+61	VAR	44+87	511.1	LT	511.1
IL RTE 176	45+24	VAR	48+37	1230.8	LT	1230.8
IL RTE 176	50+73	VAR	51+95	522	LT	522
IL RTE 176	50+29	VAR	52+21	786	RT	786
IL RTE 176	56+00	VAR	-	114	RT	114
IL RTE 176	56+48	VAR	57+99	670.7	RT	670.7
THIRD ST				53.87		

TOTAL 16752 SQ FT

42400200 PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH

LOCATION	STATION	STATION	LENGTH	WIDTH	O/S	SUBTOTALS
IL 176	41+66.94	43+36.16			LT	1284.9
IL 176	43+62.35	44+82.85			LT	551.3
IL 176	45+29.57	49+00.00			LT	1999.6
IL 176	49+00.00	49+50.00	63.60	5.00	LT	318.0
IL 176	49+30.00		7.63	5.00	LT	38.2
IL 176	49+45.00		9.05	5.00	LT	45.3
IL 176	50+71.86	51+00.00	28.14	5.00	RT	140.7
IL 176	50+79.78	51+00.00			LT	119.9
IL 176	51+00.00	51+93.81	93.81	5.00	LT	469.1
IL 176	51+00.00	52+18.40	145.94	5.00	RT	729.7
IL 176	55+42.66	59+25.00	282.50	5.00	RT	1412.5
IL 176	59+86.41	60+43.75	57.21	5.00	RT	286.1
IL 176	Second St		8.34	5.00		41.7
IL 176	Third St		42.01	4.00		168.0
IL 176	Third St		9.75	4.00		39.0
WALKUP	43+34.83	46+59.81	324.98	5.00	LT	1624.9
WALKUP	43+50.00	46+54.71	305.36	8.00	RT	2442.9
WALKUP	47+04.08	49+44.76	250.50	5.00	LT	1252.5
WALKUP	49+32.25		13.38	5.00	LT	66.9
WALKUP	50+73.37	52+72.00	199.95	5.00	LT	999.7
WALKUP	53+12.53	53+93.74	80.89	5.00	LT	404.5
WALKUP	54+23.64	54+61.03	39.10	5.00	LT	195.5
WALKUP	59+70.02	63+09.17	355.39	5.00	LT	1777.0
WALKUP	63+67.33	63+67.33	23.79	4.00	LT	95.2
WALKUP	Burden Drive				RT	218.5
WALKUP	Burden Drive				RT	30.9

TOTAL 1320 SQ FT

42400300 PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH

ROAD NAME	STATION LT/RT	SUBTOTALS
WALKUP	49+31.03RT	444.3
WALKUP	50+68.66RT	373.4
WALKUP	62+95.36RT	106.9
WALKUP	63+83.42RT	116.5
WALKUP	80+26.32RT	121.3
WALKUP	81+00.00RT	157.4

TOTAL 8708 SQ YD

Z0062456 TEMPORARY PAVEMENT

LOCATION	FR STA	TO STA	LT/RT	AREA SQ FT	SUBTOTALS
WALKUP	50+565	458+37	LT	11550	1283.3
WALKUP	55+53	59+34	LT	2072	230.22222
WALKUP	59+66	63+09	LT	4311	479
WALKUP	63+65	82+78	LT	33305	3700.5556
IL RTE 176	50+50	52+10	RT	1665	185
IL RTE 176	41+02	42+31	LT	412	45.777778
IL RTE 176	46+32	49+86	LT	6443	715.88889
IL RTE 176	50+21	61+23	LT	18618	2068.6667

TOTAL 26608 FOOT

60605000 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24

LOCATION	FROM STA from	TO STA to	LT/RT	LENGTH		SUBTOTALS
WALKUP	43+34.67	43+46.5	RT	11.90		11.9
WALKUP	RAD 43+46.57	-	RT	30.23		30.2
WALKUP	43+72.57	46+34.8	RT	262.31		262.3
WALKUP	RAD 46+34.88	-	RT	96.6041		96.6
WALKUP	43+34.83	46+39.8	LT	305.04		305.0
WALKUP	RAD 46+39.87	-	LT	94.2478		94.2
WALKUP	RAD 46+72.27	-	RT	113.7416		113.7
WALKUP	47+22.93	49+25.9	RT	202.98		203.0
WALKUP	47+20.26	49+03.6	LT	183.43		183.4
WALKUP	RAD 49+03.69	-	LT	71.9267		71.9
WALKUP	RAD 49+25.91	-	RT	66.0729		66.1
WALKUP	RAD 50+28.65	-	LT	66.16	1438.48	66.2
WALKUP	RAD 50+49.34	-	RT	62.8884		62.9
WALKUP	50+94.61	62+84.5	RT	1189.97		1190.0
WALKUP	50+73.37	54+38.3	LT	364.94		364.9
WALKUP	RAD 50+38.31	-	LT	120.8654		120.9
WALKUP	55+56.06	59+07.6	LT	351.55		351.5
WALKUP	RAD 59+07.61	-	LT	95.3243		95.3
WALKUP	59+91.90	62+82.2	LT	290.38		290.4
WALKUP	RAD 62+82.28	-	LT	114.23		114.2
WALKUP	RAD 62+84.58	-	RT	121.4921		121.5
WALKUP	62+84.58	81+53.9	LT	1869.39		1869.4
WALKUP	63+91.75	80+12.7	RT	1621.02		1621.0
WALKUP	RAD 80+10.52	-	RT	170.95		171.0
WALKUP	81+36.56	81+53.9	RT	17.41		17.4
					6456.6	0.0
WALKUP	225+00.00	227+92.	LT	292.45		292.5
WALKUP	225+00.00	299+00.	RT	7,406.00		7406.0
WALKUP	RAD 227+92.45	-	LT	152.36		152.4
WALKUP	229+21.74	235+58.	LT	637.16		637.2
WALKUP	RAD 235+58.90	-	LT	137.35		137.4
WALKUP	236+81.04	248+70.	LT	1189.08		1189.1
WALKUP	RAD 248+70.12	-	LT	117.51		117.5
WALKUP	249+92.12	264+73.	LT	1481.39		1481.4
WALKUP	RAD 264+73.51	-	LT	257.02		257.0
WALKUP	266+16.45	298+00.	LT	3183.55		3183.6
					14853.9	0.0
IL RTE 176	41+66.94	49+14.8	RT	747.92		747.9
IL RTE 176	41+66.94	43+12.7	LT	145.85		145.9
IL RTE 176	RAD 43+12.08	-	LT	106.05		106.0
IL RTE 176	43+84.47	44+63.1	LT	78.72		78.7
IL RTE 176	RAD 44+63.19	-	LT	85.95		86.0
IL RTE 176	44+43.58	49+13.3	LT	469.78		469.8
IL RTE 176	50+85.13	61+23.2	LT	1038.10		1038.1
IL RTE 176	50+74.40	51+78.6	RT	104.20		104.2
IL RTE 176	RAD 51+78.60	-	RT	163.2674		163.3
IL RTE 176	51+66.06	55+66.5	RT	400.50		400.5
IL RTE 176	RAD 55+66.56	-	RT	159.83		159.8
IL RTE 176	56+81.61	59+02.3	RT	220.69		220.7
IL RTE 176	RAD 59+02.30	-	RT	138.04		138.0
					3858.9	

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

SCHEDULE OF QUANTITIES
SHEET 1 OF 8

SCALE: N.T.S. DRAWN BY: LK
DATE: 04/15/11 CHECKED BY: MCD

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601

SCHEDULE OF QUANTITIES

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	022
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

TOTAL 664 FOOT

28000305 TEMPORARY DITCH CHECKS

LOCATION	STA	LT/RT	LENGTH FOOT	SUBTOTALS
WALKUP	76+65	RT	8	8
	226+60	RT	8	8
	229+25	RT	8	8
	230+80	RT	8	8
	234+95	RT	8	8
	235+25	RT	8	8
	237+10	RT	8	8
	239+15	RT	8	8
	246+10	RT	8	8
	248+15	RT	8	8
	250+15	RT	8	8
	253+85	RT	8	8
	255+90	RT	8	8
	257+45	RT	8	8
	259+10	RT	8	8
	259+80	RT	8	8
	266+80	RT	8	8
	268+70	RT	8	8
	270+90	RT	8	8
	271+15	RT	8	8
	272+95	RT	8	8
	274+75	RT	8	8
	281+30	RT	8	8
	283+15	RT	8	8
	285+85	RT	8	8
	288+10	RT	8	8
	290+35	RT	8	8
	292+10	RT	8	8
	394+45	RT	8	8
	299+45	RT	8	8
	299+60	RT	8	8
	301+75	RT	8	8
	303+75	RT	8	8
	305+65	RT	8	8
WALKUP	71+55	LT	8	8
	73+80	LT	8	8
	75+45	LT	8	8
	76+50	LT	8	8
	78+25	LT	8	8
	80+10	LT	8	8
	226+25	LT	8	8
	227+65	LT	8	8
	227+80	LT	8	8
	230+50	LT	8	8
	230+75	LT	8	8
	232+65	LT	8	8
	235+25	LT	8	8
	237+05	LT	8	8
	237+15	LT	8	8
	241+20	LT	8	8
	243+10	LT	8	8
	245+40	LT	8	8
	245+75	LT	8	8
	247+10	LT	8	8
	250+85	LT	8	8
	253+30	LT	8	8
	254+30	LT	8	8
	254+40	LT	8	8
	255+20	LT	8	8
	256+80	LT	8	8
	258+85	LT	8	8
	260+80	LT	8	8
	261+10	LT	8	8
	262+80	LT	8	8
	264+75	LT	8	8
	266+80	LT	8	8
	268+70	LT	8	8
	270+65	LT	8	8
	282+80	LT	8	8
	285+60	LT	8	8
	286+85	LT	8	8
	288+50	LT	8	8
	290+25	LT	8	8
	292+40	LT	8	8
	294+15	LT	8	8
	296+15	LT	8	8
	298+15	LT	8	8
	299+10	LT	8	8
	300+45	LT	8	8
	300+75	LT	8	8
	302+85	LT	8	8
	306+95	LT	8	8
	307+10	LT	8	8

TOTAL 3676 SQ YD

35101800 AGGREGATE BASE COURSE, TYPE B 6"

	SUBTOTALS
BIKE PATH	
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	3392.86
VET ARCES PARK RUNNING PATH SEE XX006613 FOR CALCULATION	283

TOTAL 12728 SQ YD

X4401198 HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH

LOCATION	FR STA	WIDTH FOOT	TO STA	WIDTH FOOT	LENGTH FOOT	SUBTOTALS
WALKUP	43+23		45+00			787.5
WALKUP	81+54	2.0	83+37	2.0	103.87	23.1
WALKUP	225+60		226+00			70.8
WALKUP	228+00		233+00			826.4
WALKUP	234+60		236+00			195.1
WALKUP	240+40		243+80			546.5
WALKUP	246+20		245+80			278.4
WALKUP	246+20		249+40			682.0
WALKUP	250+80		251+20			11.1
WALKUP	251+80		252+20			8.9
WALKUP	254+20		255+60			231.6
WALKUP	257+80		273+00			2217.9
WALKUP	273+00		273+80			15.7
WALKUP	275+20		278+40			463.0
WALKUP	278+60		279+20			26.7
WALKUP	279+20		280+80			93.3
WALKUP	281+20		290+20			1406.5
WALKUP	291+00		307+40			2284.1
SIDE STREETS						
RAILROAD ST						91.7
COACHLIGHT RD						268.9
RAINTREE DR						446.7
MASON HILL RD						479.4
ILL RTE 176	40+69.97		4443+12.74	45		1184.486
ILL RTE 176	60+07.05		262+42.77	2	LT	52.38
ILL RTE 176	60+07.05		261+68.21	2	RT	35.81

TOTAL 170 SQ YD

44201753 CLASS D PATCHES, TYPE II, 9 INCH

LOCATION	STA	LGTH	WIDTH	/SPOT	SUBTOTALS
NB & SB	22500	4	12	2	10.7
NB & SB	235+00	4	12	2	10.7
NB & SB	246+50	15	12	2	40.0
NB & SB	260+50	4	12	2	10.7
NB & SB	262+75	4	12	2	10.7
NB & SB	265+25	4	12	2	10.7
SB ONLY	265+50	4	16	1	7.1
NB & SB	266+00	4	12	2	10.7
NB & SB	266+25	8	12	2	21.3
NB ONLY	291+00	8	12	1	10.7
NB & SB	294+50	4	12	2	10.7
NB & SB	299+00	6	12	2	16.0

TOTAL 671 SQ YD

44201757 CLASS D PATCHES, TYPE III, 9 INCH

LOCATION	STA	LGTH	WIDTH	/SPOT	SUBTOTALS
WALKUP	274+00	6	12	2	16.0
WALKUP	288+50	4	12	2	10.7
WALKUP	294+00	4	12	2	10.7
LATERAL PATCHING FOR STORM SEWERS					0.0
WALKUP	228+00	25	8.5	1	23.6
WALKUP	230+77	26	10	1	28.9
WALKUP	232+90	25	8	1	22.2
WALKUP	235+10	24	8	1	21.3
WALKUP	237+00	25	8	1	22.2
WALKUP	240+93	25	8	1	22.2
WALKUP	243+50	25	8	1	22.2
WALKUP	245+63	25	8.5	1	23.6
WALKUP	246+69	25	8	1	22.2
WALKUP	249+92	25	8.25	1	22.9
WALKUP	256+00	25	8	1	22.2
WALKUP	257+65	25	8	1	22.2
WALKUP	259+25	25	8	1	22.2
WALKUP	270+92	27	11.5	1	34.5
WALKUP	274+00	27	7.5	1	22.5
WALKUP	283+35	25	8	1	22.2
WALKUP	286+00	25	8	1	22.2
WALKUP	288+40	25	8	1	22.2
WALKUP	290+50	25	8	1	22.2
WALKUP	292+25	25	8	1	22.2
WALKUP	294+60	25	8	1	22.2
WALKUP	300+63	24	9	1	24.0
WALKUP	306+00	25	8.5	1	23.6
VET ACRES	105+35	20	22	1	48.9
VET ACRES	106+06	20	22	1	48.9

TOTAL 61 SQ YD

44201759 CLASS D PATCHES, TYPE IV, 9 INCH

LOCATION	STA	LGTH FT	WIDTH FT	/SPOT SF	SUBTOTALS
NB & SB	227+00	4	12	2	10.7
NB & SB	247+25	15	12	2	40.0
NB & SB	260+00	4	12	2	10.7

TOTAL 813 SQ YD

48101500 AGGREGATE SHOULDERS, TYPE B 6"

LOCATION	FROM STA	TO STA	SUBTOTALS
WALKUP	298+69	308+25	424.8
WALKUP	299+52	308+25	388.0
Mason Hill	20+40.00	22+02.45	
Mason Hill	20+40.00	22+32.69	

TOTAL 921 SQ YD

48203029 HOT-MIX ASPHALT SHOULDERS, 8"

LOCATION	FROM STA	TO STA	SUBTOTALS
WALKUP	298+20	308+25	446.8
WALKUP	299+10	308+25	406.6
Mason Hill	22+02.45	22+28.28	9.4
Mason Hill	22+32.69	22+58.52	9.4
Coachlight	236+07.44	236+08.92	9.8

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

SCHEDULE OF QUANTITIES
SHEET 2 OF 8

SCALE: N.T.S. DRAWN BY: LK
DATE: 04/15/11 CHECKED BY: MCD

TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	023
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED.- AID PROJECT		

CONTRACT NO: 63522

SCHEDULE OF QUANTITIES

21101630 TOPSOIL FURNISH AND PLACE, 8"

TOTAL 3918 SQ YD

LOCATION	FROM STA	TO STA	SUBTOTALS
WALKUP	226+00	228+03	813
WALKUP	245+80	246+98	810
WALKUP	270+10	273+00	869
WALKUP	299+17	303+51	596
VET PAR 4B			369
DRYWELL PARK			461

21101815 COMPOST FURNISH AND PLACE, 4"

TOTAL 3088 SQ YD

LOCATION	FROM STA	TO STA	SUBTOTALS
WALKUP	22600	228+03	813
WALKUP	24580.47	246+98	810
WALKUP	27010.15	273+00	869
WALKUP	29916.99	303+51	596

25000314 SEEDING, CLASS 4B
25000324 SEEDING, CLASS 5B

TOTAL 0.1 ACRE

LOCATION	STATION	SUBTOTALS
VET PARK	104+00 - 108+00	0.1

25100630 EROSION CONTROL BLANKET

TOTAL 41761 SQ YD

QUANTITIES TAKEN FROM
SEEDING, CLASS 2A
SEEDING, CLASS 4A
SEEDING, CLASS 4B MODIFIED
SEEDING, CLASS 4B

LOCATION	STA	SEED 2A ACRE	SEED 4A ACRE	SEED 4B ACRE	MSEED 4B ACRE	SUBTOTALS
WALKUP MCDOT	40+00 - 70+00	0.88	0.00	0.00		4269
WALKUP IDOT	40+00 - 70+00	0.00	0.00	0.00		0
WALKUP CL	40+00 - 70+00	0.00	0.00	0.00		0
WALKUP	70+00 - 85+00	0.24	0.00	0.00		1183
WALKUP	225+00 - 250+00	1.68	0.77	0.34		13454
WALKUP	250+00 - 280+00	1.89	0.60	0.18		12896
WALKUP	280+00 - 310+00	1.33	0.51	0.12		9475
IL RTE 176	40+00 - 70+00	0.00	0.00	0.00		0
VET PARK	104+00 - 108+00	0.00	0.00	0.00	0.1	484

25100900 TURF REINFORCEMENT MAT

TOTAL 186 SQ YD

STR	STA	OFFSET	SUBTOTALS
	298+75	LT	36.67
	299+25	RT/LT	37.22
DS 0703	70+40	-32.15	2
DS 0704	70+60	-32.30	2
DS 0705	71+65	-33.00	2
DS 0718	75+60	-28.00	2
DS 0734	76+20	45.50	2.5
DS 0724	76+40	-30.10	2
DS 0726	77+80	-29.30	1.8
DS 0730	78+15	-29.30	1.8
DS 2209	225+26	71.5	1.8
DS 2210	225+41	68.75	1.8
DS 2219	226+40	41.634	2.1
DS 2217	227+75	-23	2
DS 2220	228+09	41.851	2.1
DS 2221	228+14	41.892	2.1
DS 2303	230+60	38.6	1.8
DS 2307	230+77	33.486	3.2
DS 2306	230+77	-37.75	3.2
DS 2400	240+93	-24	1.8
DS 2403	243+50	-27.8	1.8
DS 2406	245+50	-27.1	1.8
DS 2409	245+50	31.5	1.8
DS 2410	245+63	-27	2.1
DS 2412	245+80	-37.3	1.8
DS 2411	245+85	33	2.1
DS 2413	246+20	-32.1	1.8
DS 2418	246+69	31.7	2
DS 2516	254+50	-24.8	1.8
DS 2502	254+60	-32.6	2
DS 2503	254+90	-31.2	2
DS 2510	258+65	32.2	2
DS 2511	259+00	32.2	2
DS 2604	263+20	-28.5	1.8
DS 2606	263+35	-36	2
DS 2607	263+63	-39	2
DS 2611	264+85	-51	2.1
DS 2610	265+00	28.7	1.8
DS 2617	264+84	-271.777	2.1
DS 2612	265+08	-276.927	2.1
DS 2615	268+50	28.3	2.1
DS 2701	270+92	-27.093	2.1
DS 2704	270+92	31.2	2.1
DS 2712	271+95	31.2	1.8
DS 2714	272+67	-38	1.8
DS 2715	272+88	-38	1.8
DS 2717	274+00	35	1.8
DS 2719	276+40	43.5	1.8
DS 2721	279+00	25	1.8
DS 2722	279+35	-34.7	1.8
DS 2723	279+70	-33	1.8
DS 2724	279+90	-23.7	1.8
DS 2810	286+00	-26.685	1.8
DS 2921	229+45	36.2	2.1
DS 3000	300+63	-26.489	2.5
DS 3001	300+63	27.989	2.5
DS 3002	307+00	-25.141	2.1
DS 3003	307+00	28.2	2.1

25200110 SODDING, SALT TOLERANT

TOTAL 20344 SQ YD

LOCATION	STA	SUBTOTALS
WALKUP	40+00 - 70+00	5915.0
WALKUP	40+00 - 70+00	0.0
WALKUP	40+00 - 82+00	1233.4
WALKUP	225+00 - 250+00	746.6
WALKUP	250+00 - 280+00	2177.9
WALKUP	280+00 - 310+00	3078.6
IL RTE 176	40+00 - 70+00	6082.7
VET PARK	104+00 - 108+00	1026.3

25000312 SEEDING, CLASS 4A

TOTAL 1.9 ACRE

LOCATION	STA	SUBTOTALS
WALKUP	40+00 - 70+00	0.0
WALKUP	40+00 - 70+00	0.0
WALKUP	40+00 - 70+00	0.0
WALKUP	70+00 - 85+00	0.0
WALKUP	225+00 - 250+00	0.8
WALKUP	250+00 - 280+00	0.6
WALKUP	280+00 - 310+00	0.5
IL RTE 176	40+00 - 70+00	0.0
VET PARK	104+00 - 108+00	0.0

25000210 SEEDING, CLASS 2A

TOTAL 6.1 ACRE

LOCATION	STA	SUBTOTALS ACRE
WALKUP	40+00 - 70+00	0.9
WALKUP	40+00 - 70+00	0.0
WALKUP	40+00 - 70+00	0.0
WALKUP	70+00 - 85+00	0.2
WALKUP	225+00 - 250+00	1.7
WALKUP	250+00 - 280+00	1.9
WALKUP	280+00 - 310+00	1.3
IL RTE 176	40+00 - 70+00	0.0
VET PARK	104+00 - 108+00	0.0
DRYWELL PARK		0.1

X2502024 SEEDING, CLASS 4B (MODIFIED)

TOTAL 0.7 ACRE

LOCATION	STA	SUBTOTALS ACRE
WALKUP	40+00 - 70+00	0.0
WALKUP	40+00 - 70+00	0.0
WALKUP	40+00 - 70+00	0.0
WALKUP	70+00 - 85+00	0.0
WALKUP	225+00 - 250+00	0.4
WALKUP	250+00 - 280+00	0.2
WALKUP	280+00 - 310+00	0.1
IL RTE 176	40+00 - 70+00	0.0
VET PARK	104+00 - 108+00	0.0

28000400 PERIMETER EROSION BARRIER

TOTAL 16423 FOOT

LOCATION	FR STA	OFFSET	TO STA	OFFSET	LENGTH FOOT	SUBTOTALS
WALKUP	43+93	-49	45+34	-49	141	141
WALKUP	43+45	54	46+48	54	303	303
WALKUP	46+96	54	49+00	54	204	204
WALKUP	51+00	54	51+69	54	69	69
WALKUP	51+00	-59	51+76	-59	76	76
WALKUP	51+69	54	51+69	79	25	25
WALKUP	51+69	79	53+96	79	227	227
WALKUP	53+96	79	53+96	89	10	10
WALKUP	53+96	89	55+19	89	123	123
WALKUP	55+19	89	55+19	69	20	20
WALKUP	55+19	69	57+70	69	251	251
WALKUP	57+70	69	57+88	64	19	19
WALKUP	67+88	64	59+79	64	809	809
WALKUP	59+79	64	59+79	46	18	18
WALKUP	59+79	46	60+60	46	81	81
WALKUP	60+60	46	60+60	64	18	18
WALKUP	60+60	64	63+12	64	252	252
WALKUP	63+68	46	68+64	46	496	496
WALKUP	68+64	46	68+64	54	8	8
WALKUP	68+64	54	69+22	46	59	59
WALKUP	69+22	46	73+32	46	410	410
WALKUP	73+32	46	73+32	54	8	8
WALKUP	73+32	54	74+08	54	76	76
WALKUP	74+08	54	74+08	46	8	8
WALKUP	74+08	46	76+74	44	266	266
WALKUP	76+74	44	76+74	49	5	5
WALKUP	76+74	49	78+23	49	149	149
WALKUP	78+23	49	78+24	59	10	10
WALKUP	78+24	59	80+43	59	219	219
WALKUP	81+06	49	85+00	49	394	394
WALKUP	223+82	38	225+31	98	161	161
WALKUP	220+21	-39	221+00	-39	79	79
WALKUP	226+50	105	228+60	49	217	217
WALKUP	228+60	49	229+01	49	41	41
WALKUP	229+01	49	231+49	49	248	248
WALKUP	231+49	49	231+49	41	8	8
WALKUP	231+49	41	234+10	39	261	261
WALKUP	229+50	-49	230+60	-49	110	110
WALKUP	230+60	-49	230+61	-59	10	10
WALKUP	230+61	-59	230+89	-59	28	28
WALKUP	230+89	-59	230+90	-49	10	10
WALKUP	230+90	-49	232+23	-49	133	133
WALKUP	234+34	39	240+01	39	567	567
WALKUP	244+00	39	245+01	39	101	101
WALKUP	245+01	39	245+60	39	59	59
WALKUP	245+60	39	245+60	138	99	99
WALKUP	245+60	138	246+80	139	120	120
WALKUP	246+80	138	246+80	64	74	74
WALKUP	246+80	64	247+50	64	70	70
WALKUP	247+49	39	248+00	39	51	51
WALKUP	251+01	-49	252+26	-49	125	125
WALKUP	252+26	-49	252+26	-39	10	10
WALKUP	252+26	-39	254+01	-39	175	175
WALKUP	254+81	-39	260+00	-39	519	519
WALKUP	253+00	39	256+34	39	334	334
WALKUP	256+48	39	257+79	39	131	131
WALKUP	258+00	39	258+73	39	73	73
WALKUP	261+00	39	265+30	39	430	430
WALKUP	265+30	39	265+31	49	10	10
WALKUP	265+31	49	265+38	49	7	7
WALKUP	265+54	-156	265+69	-87	71	71
WALKUP	265+69	-87	265+98	-54	44	44
WALKUP	265+98	-59	269+26	-54	328	328
WALKUP	269+26	-54	269+26	-39	15	15
WALKUP	269+26	-39	272+80	-39	354	354
WALKUP	265+52	49	266+31	49	79	79
WALKUP	266+31	49	266+31	39	10	10
WALKUP	266+31	39	270+00	39	369	369
WALKUP	270+00	39	270+01	69	30	30
WALKUP	270+01	69	277+49	69	748	748
WALKUP	277+49	69	277+50	39	30	30
WALKUP	277+50	39	279+83	39	233	233
WALKUP	272+85	-39	279+37	-39	652	652
WALKUP	279+56	-39	286+57	-39	701	701
WALKUP	286+71	-39	290+50	-39	379	379
WALKUP	292+66	39	294+50	39	184	184
WALKUP	294+95	39	296+86	39	191	191
WALKUP	296+99	39	297+99	39	100	100
WALKUP	298+16	39	299+03	39	87	87
WALKUP	299+03	39	299+19	59	26	26
WALKUP	299+19	59	306+99	59	780	780

28000400 PERIMETER EROSION BARRIER

LOCATION	FR STA	OFFSET	TO STA	OFFSET	LENGTH FOOT	SUBTOTALS
IL RTE 176	47+00	-59	49+00	-59	200	200
IL RTE 176	51+00	-57	52+57	-54	157	157
IL RTE 176	52+76	-54	53+33	-54	57	57
IL RTE 176	53+50	-54	54+10	-54	60	60
IL RTE 176	54+26	-54	54+35	-54	9	9
IL RTE 176	54+35	-54	54+35	-44	10	10
IL RTE 176	54+35	-44	54+89	-44	54	54
IL RTE 176	55+09	-44	55+69	-44	60	60
IL RTE 176	55+86	-44	56+09	-44	23	23
IL RTE 176	56+22	-44	56+32	-44	10	10
IL RTE 176	56+46	-44	56+73	-44	27	27
IL RTE 176	56+85	-44	57+62	-44	77	77
IL RTE 176	57+82	-44	58+13	-44	31	31
IL RTE 176	58+31	-44	58+45	-44	14	14
IL RTE 176	58+65	-44	59+77	-44	112	112
VET PARK	104+44	29	105+24	29	80	80
VET PARK	105+24	29	105+56	5	40	40
VET PARK	105+56	5	106+59	5	103	103
VET PARK	106+70	4	106+70	40	36	36
VET PARK	106+70	40	107+36	42	66	66
VET PARK	107+60	52	107+83	54	23	23
VET PARK	106+04	-31	106+16	-49	22	22
VET PARK	106+16	-49	106+48	-49	32	32
VET PARK	106+74	-107	106+88	-105	14	14
VET PARK	106+88	-105	107+43	-166	82	82
VET PARK	107+43	-166	107+92	-130	61	61
VET PARK	107+92	-130	109+05	-166	119	119
VET PARK NORTH POND PERIMETER					420	420

28000200 EARTH EXCAVATION FOR EROSION CONTROL

TOTAL 118 CU YD

STA	LT/RT	DEPTH FOOT	WIDTH FOOT	LENGTH FOOT	CU YD	SUBTOTALS
Sedimentation Basin Size		2	5	10	3.7037	
55+00	RT	1	3.7			3.70
76+00	RT	1	3.7			3.70
228+00	RT	1	3.7			3.70
230+75	RT	1	3.7			3.70
246+25	RT	1	3.7			3.70
271+00	RT	1	3.7			3.70
299+25	RT	1	3.7			3.70
107+50	LT					92.59

28001000 AGGREGATE (EROSION CONTROL)

TOTAL 4 TON

STA	LT/RT	WIDE FT	LENGTH FT	DEPTH FT	TON	SUBTOTALS
55+00	RT	1	10	1	0.6	0.6
76+00	RT	1	10	1	0.6	0.6
228+00	RT	1	10	1	0.6	0.6
230+75	RT	1	10	1	0.6	0.6
246+25	RT	1	10	1	0.6	0.6
271+00	RT	1	10	1	0.6	0.6
299+25	RT	1	10	1	0.6	0.6

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

SCHEDULE OF QUANTITIES
SHEET 3 OF 8

SCALE: N.T.S. DRAWN BY: LK
DATE: 04/15/11 CHECKED BY: MCD

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE: 312/616-0000

SCHEDULE OF QUANTITIES

50105220 PIPE CULVERT REMOVAL — TOTAL 1370 FOOT

LOCATION	FR STA	OFFSET	TO STA	OFFSET	SUBTOTALS
WALKUP	52+71	26.8	53+33	22.5	63
WALKUP	65+15	15.4	65+52	15.0	37
WALKUP	68+41	28.0	68+71	28.2	30
WALKUP	70+28	17.6	70+63	15.9	35
WALKUP	71+62	17.6	72+12	18.1	50
WALKUP	74+09	17.5	74+56	18.5	47
WALKUP	77+85	23.4	78+11	23.8	26
WALKUP	228+15	32.8	228+30	66.5	37
WALKUP	228+16	29.6	228+91	29.6	75
WALKUP	230+76	-38.7	230+76	-25.6	13
WALKUP	230+76	-25.6	230+77	23.7	49
WALKUP	234+03	23.0	234+29	22.6	26
WALKUP	233+99	23.0	234+43	24.1	44
WALKUP	235+11	-19.0	235+10	19.0	38
WALKUP	235+82	26.3	236+57	27.2	75
WALKUP	245+62	-26.3	245+63	25.9	52
WALKUP	245+80	-27.0	246+16	-27.0	36
WALKUP	251+83	24.4	252+56	23.4	73
WALKUP	254+64	24.2	254+96	24.0	32
WALKUP	256+28	21.9	256+57	22.4	29
WALKUP	257+71	23.1	258+11	23.4	40
WALKUP	258+65	24.2	259+07	24.9	42
WALKUP	263+37	36.5	263+63	39.0	26
WALKUP	265+33	27.1	265+58	27.3	25
WALKUP	272+65	36.0	272+91	36.0	26
WALKUP	284+88	23.0	285+14	23.0	26
WALKUP	286+01	24.0	286+42	25.0	41
WALKUP	288+46	24.0	288+72	24.3	26
WALKUP	290+59	25.0	290+86	25.2	27
WALKUP	292+33	25.0	292+71	26.0	38
WALKUP	294+71	26.0	294+97	26.5	26
WALKUP	296+77	28.3	297+04	28.1	27
WALKUP	297+85	32.9	298+16	29.5	31
WALKUP	300+63	-22.4	300+63	23.3	46
MASON HILL	20+95	-18.0	20+95	18.0	36
MASON HILL	21+12	-24.0	21+32	-24.0	20

55100500 STORM SEWER REMOVAL 12" — TOTAL 1917 FOOT

LOCATION	FR STA	OFFSET	TO STA	OFFSET	LT/RT	SUBTOTALS
WALKUP	44+00	-20.4	44+38	-22.3	LT	38.2
WALKUP	44+38	-22.3	46+74	-19.5	LT	235.6
WALKUP	46+91	32.0	47+18	16.6	RT	30.7
WALKUP	46+74	-19.5	47+14	-20.1	LT	40.2
WALKUP	47+18	16.6	47+14	-20.0	RT/LT	36.8
WALKUP	49+19	-17.7	49+27	-22.9	LT	9.3
WALKUP	49+20	17.9	49+19	-17.7	RT/LT	35.6
WALKUP	49+75	54.8	49+77	36.5	RT	18.4
WALKUP	49+75	54.8	50+24	42.7	RT	50.4
WALKUP	49+77	36.6	49+63	-27.6	RT/LT	65.8
WALKUP	50+25	40.4	50+31	-26.3	RT	67.0
WALKUP	53+33	-22.5	53+34	-17.2	LT	5.4
WALKUP	53+34	-17.2	53+33	-23.4	RT	6.3
WALKUP	55+35	19.2	55+41	19.6	RT	5.9
WALKUP	55+41	19.6	55+40	67.2	RT	47.6
WALKUP	63+96	42.2	65+98	41.3	RT	202.0
WALKUP	65+98	41.3	65+97	-17.6	RT/LT	58.9
WALKUP	79+20	-19	79+19	9.7	RT/LT	28.7
WALKUP	81+20	-20	81+21	13.3	RT	33.2
IL RTE 176	42+33	31.4	44+50	34.5	LT	216.7
IL RTE 176	44+50	34.5	45+26	43.5	LT	76.5
IL RTE 176	44+48	34.0	44+50	-35.0	RT/LT	69.0
IL RTE 176	44+48	33.6	44+60	20.8	RT	17.5
IL RTE 176	50+53	28.0	52+72	27.0	RT	218.8
IL RTE 176	52+53	-19.0	52+72	27.0	LT/RT	49.8
IL RTE 176	52+72	27.0	52+77	22.1	RT	7.0
IL RTE 176	55+94	-19.0	56+09	20.3	LT/RT	42.0
IL RTE 176	56+19	38.6	56+36	39.4	RT	17.0
IL RTE 176	57+40	30.0	57+48	19.3	RT	13.4
IL RTE 176	57+31	19.1	57+40	30.2	LT	14.3
IL RTE 176	57+48	-18.8	57+58	-28.5	LT	13.3
IL RTE 176	59+33	22.7	59+66	-18.9	LT/RT	53.0
IL RTE 176	58+95	28.3	59+43	29.2	RT	48.0
IL RTE 176	59+37	36.8	59+43	29.2	RT	9.8
IL RTE 176	59+43	29.2	59+78	23.6	RT	35.0

55100700 STORM SEWER REMOVAL 15" — TOTAL 633 FOOT

LOCATION	FR STA	OFFSET	TO STA	OFFSET	LT/RT	SUBTOTALS
WALKUP	43+48	-20.7	44+00	-20.4	LT	51.4
WALKUP	47+14	20.0	49+27	23.0	LT	213.5
WALKUP	75+57	26.6	76+09	30.0	LT	52.1
WALKUP	76+09	30.0	76+41	29.5	LT	32.0
IL RTE 176	52+72	27.0	55+50	28.1	RT	277.4
IL RTE 176	55+50	28.1	55+51	21.9	RT	6.3

55100900 STORM SEWER REMOVAL 18" — TOTAL 1456 FOOT

LOCATION	FR STA	OFFSET	TO STA	OFFSET	LT/RT	SUBTOTALS
WALKUP	55+44	-49.2	55+64	-28.8	LT	28
WALKUP	55+64	28.8	59+08	16.5	LT	345
WALKUP	59+08	16.5	59+90	16.3	LT	82
WALKUP	59+90	16.3	61+50	17.9	LT	160
WALKUP	55+45	35.8	57+95	40.0	RT	250
WALKUP	57+95	40.0	62+00	41.7	RT	405
WALKUP	62+00	41.7	63+63	41.2	RT	163
IL RTE 176	57+27	27.5	57+38	29.1	LT	11
IL RTE 176	58+84	23.1	58+95	28.3	RT	12

55101200 STORM SEWER REMOVAL 24" — TOTAL 152 FOOT

LOCATION	FR STA	OFFSET	TO STA	OFFSET	LT/RT	SUBTOTALS
WALKUP	49+27	-22.9	49+63	-27.625	LT	35.9
WALKUP	55+44	-49.2	55+45	35.8	LT/RT	85.0
WALKUP	55+45	35.8	55+45	67.2	LT/RT	31.4

55101400 STORM SEWER REMOVAL 30" — TOTAL 914 FOOT

LOCATION	FR STA	OFFSET	TO STA	OFFSET	LT/RT	SUBTOTALS
IL RTE 176	55+50	28.1	57+40	30.2	RT	190.0
IL RTE 176	56+56	22.3	56+56	30.0	RT	7.7
IL RTE 176	57+40	30.2	58+95	28.3	RT	155.2
RCEP 34" X 22"						
WALKUP	76+13	14.0	76+16	14.0	RT	3.0
WALKUP	76+25	13.0	77+78	10.0	RT	153.0
WALKUP	77+83	10.0	79+19	10.0	RT	136.0
WALKUP	79+19	9.7	81+21	13.3	RT	201.6
RCEP 38" X 24"						
WALKUP	76+09	-30.0	76+10	12.0	LT/RT	42.0
WALKUP	76+09	40.0	76+10	14.2	RT	25.8

55101800 STORM SEWER REMOVAL 42" — TOTAL 62 FOOT

LOCATION	FR STA	OFFSET	TO STA	OFFSET	LT/RT	SUBTOTALS
IL RTE 176	57+38	16.0	57+40	28.0	RT	12
IL RTE 176	57+42	-29.1	57+55	-28.5	LT	14
IL RTE 176	57+38	-26.0	57+37	10.0	LT	36

60255500 MANHOLES TO BE ADJUSTED — TOTAL 10 EACH

LOCATION	STA	OFFSET	LT/RT	SUBTOTALS
IL RTE 176	45+33	30.0	RT	1
IL RTE 176	47+39	31.0	RT	1
IL RTE 176	59+46	15.0	LT	1
WALKUP	44+45	16.0	RT	1
WALKUP	59+30	34.4	LT	1
WALKUP	63+93	19.0	RT	1
WALKUP	63+98	19.0	RT	1
WALKUP	241+86	20.8	RT	1
WALKUP	241+91	20.8	RT	1
WALKUP	47+18	17.0	RT	1

Z0018700 DRAINAGE STRUCTURE TO BE REMOVED — TOTAL 88 EACH

LOCATION	STA	OFFSET	LT/RT	SUBTOTALS
WALKUP	43+48	20.7	LT	1
WALKUP	43+97	17.0	LT	1
WALKUP	43+99	30.0	LT	1
WALKUP	44+00	20.0	LT	1
WALKUP	44+38	22.0	LT	1
WALKUP	46+60	20.0	LT	1
WALKUP	46+74	19.5	LT	1
WALKUP	46+91	32.0	RT	1
WALKUP	47+02	20.5	LT	1
WALKUP	47+14	20.0	LT	1
WALKUP	48+99	22.0	LT	1
WALKUP	49+20	18.0	LT	1
WALKUP	49+20	18.0	RT	1
WALKUP	49+21	19.0	RT	1
WALKUP	49+27	23.0	LT	1
WALKUP	49+63	27.5	LT	1
WALKUP	49+64	12.5	LT	1
WALKUP	49+75	55.0	RT	1
WALKUP	49+77	36.5	RT	1
WALKUP	50+25	42.3	RT	1
WALKUP	50+31	26.0	LT	1
WALKUP	52+70	27.0	LT	1
WALKUP	53+33	22.5	LT	1
WALKUP	53+34	19.0	RT	1
WALKUP	53+34	17.0	LT	1
WALKUP	55+35	19.0	RT	1
WALKUP	55+40	67.0	RT	1
WALKUP	55+41	20.0	RT	1
WALKUP	55+44	49.2	LT	1
WALKUP	55+45	35.8	RT	1
WALKUP	55+45	67.0	RT	1
WALKUP	55+64	29.0	LT	1
WALKUP	57+95	40.0	RT	1
WALKUP	59+09	16.0	LT	1
WALKUP	59+90	16.0	LT	1
WALKUP	61+50	18.0	LT	1
WALKUP	62+00	42.0	RT	1
WALKUP	63+17	58.0	LT	1
WALKUP	63+56	59.0	LT	1
WALKUP	63+96	42.0	RT	1
WALKUP	65+97	17.5	LT	1
WALKUP	65+98	41.0	RT	1
WALKUP	72+16	21.5	LT	1
WALKUP	74+09	17.5	LT	1
WALKUP	74+55	18.5	LT	1
WALKUP	74+58	23.0	LT	1
WALKUP	75+57	26.5	LT	1
WALKUP	76+09	30.0	LT	1
WALKUP	76+10	40.0	RT	1
WALKUP	76+12	13.0	RT	1
WALKUP	76+17	14.0	RT	1
WALKUP	76+23	12.8	RT	1
WALKUP	76+41	29.5	LT	1
WALKUP	77+80	11.0	RT	1
WALKUP	79+19	10.0	RT	1
WALKUP	79+20	20.0	LT	1
WALKUP	81+20	13.0	RT	1
WALKUP	81+20	20.0	LT	1
IL RTE 175	42+33	31.2	LT	1
IL RTE 176	44+48	34.0	RT	1
IL RTE 176	44+60	20.0	RT	1
IL RTE 176	44+50	35.0	LT	1
IL RTE 176	45+26	43.0	LT	1
IL RTE 176	52+53	19.0	LT	1
IL RTE 176	52+72	27.0	RT	1
IL RTE 176	52+77	22.0	RT	1
IL RTE 176	55+50	28.0	RT	1
IL RTE 176	55+51	22.0	RT	1
IL RTE 176	55+94	19.0	LT	1
IL RTE 176	56+10	23.0	RT	1
IL RTE 176	56+19	39.0	RT	1
IL RTE 176	56+56	22.0	RT	1
IL RTE 176	57+31	19.0	RT	1
IL RTE 176	57+40	30.0	RT	1
IL RTE 176	57+38	13.0	RT	1
IL RTE 176	57+48	19.0	RT	1
IL RTE 176	57+27	27.5	LT	1
IL RTE 176	57+38	29.0	LT	1
IL RTE 176	57+48	19.0	LT	1
IL RTE 176	57+58	28.0	LT	1
IL RTE 176	57+64	19.2	RT	1
IL RTE 176	58+84	23.0	RT	1
IL RTE 176	58+95	28.0	RT	1
IL RTE 176	59+43	29.0	RT	1
IL RTE 176	59+37	37.0	RT	1
IL RTE 176	59+33	23.0	RT	1
IL RTE 176	59+66	19.0	LT	1
IL RTE 176	59+48	29.0	RT	1
IL RTE 176	59+78	24.0	RT	1

60257900 MANHOLES TO BE RECONSTRUCTED — TOTAL 5 EACH

LOCATION	STA	OFFSET	LT/RT	SUBTOTALS
IL RTE 176	50+24	11.8	RT	1
IL RTE 176	50+39	13.0	LT	1
IL RTE 176	50+43	16.5	LT	1
IL RTE 176	50+78	10.0	LT	1
IL RTE 176	50+97	17.0	RT	1

X6026050 SANITARY MANHOLES TO BE ADJUSTED — TOTAL 11 EACH

LOCATION	STA	OFFSET	LT/RT	SUBTOTALS
IL RTE 176	59+57	1.2	LT	1
IL RTE 176	59+75	30.0	RT	1
IL RTE 176	59+76	22.0	LT	1
WALKUP	51+36	23.0	LT	1
WALKUP	52+56	24.6	RT	1
WALKUP	53+33	23.5	RT	1
WALKUP	54+91	49.6	LT	1
WALKUP	59+42	45.2	LT	1
WALKUP	63+37	41.4	LT	1
WALKUP	46+80	0.0	RT	1
WALKUP	47+42	0.0	RT	1

X6026051 SANITARY MANHOLES TO BE RECONSTRUCTED — TOTAL 4 EACH

LOCATION	STA	OFFSET	LT/RT	SUBTOTALS
IL RTE 176	50+00	4.9	RT	1
WALKUP	50+49	22.0	LT	1
IL RTE 176	56+28	21.0	RT	1
IL RTE 176	56+32	7.0	RT	1

60107700 PIPE UNDERDRAINS 6" — TOTAL 330 FOOT

ALIGNMENT	FR STRU	FR STA	OFFSET	TO STRU	TO STA	OFFSET	SUBTOTALS
IL 176	CL	41+70	0.0	4000	41+70	22.0	22
IL 176	CL	41+70	0.0	4001	41+70	22.0	22
IL 176	CL	57+17	0.0	5017	57+17	26.3	26
IL 176	CL	57+17	0.0	5016	57+17	-25.7	26
WALKUP RD	CL	73+96	0.0	713	73+96	-19.0	19
WALKUP RD	CL	73+96	0.0	714	73+96	19.0	19
WALKUP RD	CL	77+80	0.0	727	77+80	-19.0	19
WALKUP RD	CL	77+80	0.0	728	77+80	25.6	26
WALKUP RD	CL	246+69	0.0	2416	246+69	-19.0	19
WALKUP RD	CL	246+69	0.0	2417	246+69	19.0	19
WALKUP RD	L EDGE	270+92	-19.0	2703	270+92	19.0	38
WALKUP RD	L EDGE	274+00	-18.0	2716	274+00	19.0	37
WALKUP RD	CL	294+60	0.0	2907	294+60	-19.0	19

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

SCHEDULE OF QUANTITIES
SHEET 4 OF 8

SCALE: N.T.S. DRAWN BY: LK
DATE: 04/15/11 CHECKED BY: MCD

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601

SCHEDULE OF QUANTITIES

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	025
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

				TOTAL 11 EACH
60265700	**VALVE VAULTS TO BE ADJUSTED**			
LOCATION	STATION	OFFSET		SUBTOTALS
WALKUP	53+00	20.0	LT	1
WALKUP	55+27	28.4	LT	1
WALKUP	59+13	21.0	LT	1
WALKUP	61+03	23.6	LT	1
WALKUP	62+95	24.6	LT	1
WALKUP	75+26	19.0	LT	1
WALKUP	76+08	30.0	LT	1
WALKUP	80+35	24.0	LT	1
WALKUP	80+50	30.5	LT	1
IL 176	47+39	31.3	RT	1
IL 176	44+48	33.6	RT	1

				TOTAL 4 EACH
60266100	**VALVE VAULTS TO BE RECONSTRUCTED**			
LOCATION	STATION	OFFSET		SUBTOTALS
WALKUP	53+11	20.0	LT	1
WALKUP	67+00	22.0	LT	1
WALKUP	68+35	19.0	LT	1
IL 176	45+32	30.0	RT	1

STORM SEWER (WATER MAIN REQUIREMENTS)

PIPE ID	CLASS A	SIZE	LOCATION	LNGTH
SS-0407	2	18"	CL	15.0
SS-0408	2	18"	CL	3.0
SS-0416	2	15"	CL	22.0
SS-0502	2	12"	MCDOT	21.0
SS-0503	2	18"	MCDOT	22.0
SS-0505	2	12"	MCDOT	45.0
SS-0510	2	24"	MCDOT	22.0
SS-0511	2	15"	MCDOT	10.0
SS-0515	2	18"	MCDOT	12.0
SS-0519	2	12"	MCDOT	22.0
SS-0521	2	12"	MCDOT	20.0
SS-0601	2	12"	MCDOT	17.0
SS-0603	2	12"	MCDOT	9.0
SS-0605	1	12"	MCDOT	5.0
SS-0700	1	12"	MCDOT	11.0
SS-0705	1	12"	MCDOT	6.0
SS-0706	1	12"	MCDOT	9.0
SS-0709	1	12"	MCDOT	11.0
SS-0711	1	12"	MCDOT	6.0
SS-0712	1	12"	MCDOT	9.0
SS-0714	1	12"	MCDOT	8.0
SS-0715	1	12"	MCDOT	9.0
SS-0718	1	15"	MCDOT	59.0
SS-0719	2	24"	MCDOT	8.0
SS-0721	1	12"	MCDOT	5.0
SS-0723	1	15"	MCDOT	21.0
SS-0727	2	12"	MCDOT	5.0
SS-4007	2	30"	IDOT	22.0
SS-4009	2	12"	IDOT	7.0
SS-4012	2	12"	IDOT	11.0
SS-5008	2	12"	IDOT	36.0
SS-5026	1	15"	IDOT	21.0
SS-5028	1	12"	IDOT	15.0
SS-5030	2	12"	IDOT	5.0
SS-5037	1	12"	IDOT	5.0

			TOTAL 286 EACH
XX006570 TREES (SPECIAL)			
PLANT MATERIAL	LOCATION 1	LOCATION 2	SUBTOTALS
(A2007120) QUERCUS RUBRA (RED OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED	18	14	32
(A2006520) QUERCUS BICOLOR (SWAMP WHITE OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED	18	14	32
(A2002924) CELTIS OCCIDENTALIS (COMMON HACKBERRY), 3" CALIPER, BALLED AND BURLAPPED	18	14	32
(A2008024) TILIA CORDATA (LITTLE LEAF LINDEN), 3" CALIPER, BALLED AND BURLAPPED	18	14	32
(A2006518) ULMUS PARVIFOLIA (LACEBARK ELM), 2" CALIPER, BALLED AND BURLAPPED	18	14	32
(D2002288) PICEA PUNGENS GLAUCA (COLORADO BLUE SPRUCE), 8' HEIGHT, BALLED AND BURLAPPED	18	14	32
(A2001024) ACER RUBRUM (RED MAPLE), 3" CALIPER, BALLED AND BURLAPPED	18	14	32
(A2002520) CARPINUS CAROLINIANA (AMERICAN HORNBEAM), 2-1/2" CALIPER, BALLED AND BURLAPPED	17	14	31
(B2010165) CORNUS KOUSA (KOUSA DOGWOOD), 5' HEIGHT, BALLED AND BURLAPPED	17	14	31

LOCATION 1: NUNDA TOWNSHIP 3510 BAY RD, CRYSTAL LAKE, IL
LOCATION 2: 100 W. WOODSTOCK STREET, CRYSTAL LAKE, IL

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

SCHEDULE OF QUANTITIES
SHEET 5 OF 8

SCALE: N.T.S. DRAWN BY: LK
DATE: 04/15/11 CHECKED BY: MCD

TENG
TENG & ASSOCIATES, INC.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	026
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

SCHEDULE OF QUANTITIES

		EARTH EXCAVATION				REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (TOPSOIL & UNDERCUT)				EXCAVATION TO BE USED IN EMBANKMENT (15% SHRINKAGE)				EMBANKMENT				EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)				POROUS GRANULAR EMBANKMENT SUBGRADE			
STATION	TO STATION	PRESTAGE CYD	STAGE I CYD	STAGE II CYD	STAGE III CYD	PRESTAGE CYD	STAGE I CYD	STAGE II CYD	STAGE III CYD	PRESTAGE CYD	STAGE I CYD	STAGE II CYD	STAGE III CYD	PRESTAGE CYD	STAGE I CYD	STAGE II CYD	STAGE III CYD	PRESTAGE CYD	STAGE I CYD	STAGE II CYD	STAGE III CYD	PRESTAGE CYD	STAGE I CYD	STAGE II CYD	STAGE III CYD
ILLINOIS ROUTE 176																									
41+66.94	42+00.00	0.0	29.0	0.0	42.5	0.0	11.8	0.0	12.1	0.0	24.6	0.0	36.1	0.0	0.1	0.0	1.0	0.0	24.6	0.0	35.1	0.0	0.0	0.0	0.0
42+00.00	43+00.00	0.0	88.6	0.0	97.4	0.0	37.1	0.0	32.0	0.0	75.3	0.0	82.7	0.0	0.2	0.0	4.8	0.0	75.1	0.0	78.0	0.0	0.0	0.0	0.0
43+00.00	43+12.79	0.0	14.8	0.0	16.6	0.0	4.6	0.0	4.6	0.0	12.6	0.0	14.1	0.0	0.1	0.0	0.6	0.0	12.5	0.0	13.5	0.0	0.0	0.0	0.0
43+12.79	44+00.00	0.0	89.9	0.0	109.5	0.0	37.3	0.0	9.9	0.0	76.4	0.0	93.1	0.0	30.9	0.0	3.1	0.0	45.5	0.0	90.0	0.0	0.0	0.0	0.0
44+00.00	45+00.00	0.0	119.7	0.0	195.5	0.0	47.9	0.0	53.0	0.0	101.7	0.0	166.2	0.0	31.2	0.0	47.1	0.0	70.5	0.0	119.1	0.0	0.0	0.0	0.0
45+00.00	46+00.00	5.6	112.1	0.0	171.3	8.0	53.0	0.0	15.4	4.8	95.3	0.0	145.6	0.4	43.4	0.0	38.9	4.4	52.0	0.0	106.7	0.0	0.0	0.0	0.0
46+00.00	47+00.00	2.5	126.6	0.0	129.2	19.0	39.4	0.0	43.4	2.1	107.6	0.0	109.8	16.5	32.4	0.0	113.1	-14.4	75.2	0.0	-3.3	0.0	0.0	0.0	0.0
47+00.00	48+00.00	10.0	120.8	0.0	84.0	40.6	63.1	0.0	20.8	8.5	102.7	0.0	71.4	48.9	17.9	0.0	93.2	-40.4	84.8	0.0	-21.8	0.0	0.0	0.0	0.0
48+00.00	49+00.00	2.5	72.4	0.0	32.2	19.0	10.4	0.0	11.5	2.1	61.6	0.0	27.4	16.5	1.7	32.6	68.0	-14.4	59.8	-32.6	-40.6	0.0	0.0	0.0	0.0
49+00.00	50+00.00	105.5	87.8	18.1	17.2	67.1	66.6	10.3	9.6	89.6	74.6	15.4	14.6	49.0	32.5	34.8	54.3	40.7	42.2	-19.4	-39.7	0.0	0.0	0.0	0.0
50+00.00	51+00.00	74.1	20.6	11.1	0.0	29.8	29.8	8.4	2.4	63.0	17.5	9.5	0.0	0.4	33.2	66.7	0.0	62.6	-15.7	-57.2	0.0	0.0	0.0	0.0	0.0
51+00.00	52+00.00	149.3	44.7	19.8	0.0	59.7	63.0	17.4	5.7	126.9	38.0	16.8	0.0	0.9	59.7	72.4	0.0	126.1	-21.7	-55.5	0.0	0.0	0.0	0.0	0.0
52+00.00	53+00.00	79.6	44.4	11.1	0.0	47.7	46.9	19.4	7.0	67.7	37.8	9.5	0.0	8.4	53.8	93.8	0.0	59.3	-16.0	-84.3	0.0	0.0	0.0	0.0	0.0
53+00.00	54+00.00	52.3	94.6	1.7	0.0	25.2	61.4	7.1	1.4	44.5	80.4	1.4	0.0	3.0	55.9	87.7	0.0	41.4	24.5	-86.2	0.0	0.0	0.0	0.0	0.0
54+00.00	55+00.00	17.3	48.7	0.0	0.0	28.5	35.9	14.8	10.3	14.7	41.4	0.0	0.0	8.3	40.7	98.2	0.0	6.5	0.7	-98.2	0.0	0.0	0.0	0.0	0.0
55+00.00	56+00.00	17.2	88.6	0.5	0.0	12.3	50.7	1.2	3.2	14.6	75.3	0.4	0.0	3.0	56.0	82.3	0.0	11.6	19.3	-81.9	0.0	0.0	0.0	0.0	0.0
56+00.00	57+00.00	22.3	27.3	1.4	0.0	22.7	39.1	3.8	17.8	18.9	23.2	1.2	0.0	0.7	85.4	72.7	0.0	18.2	-62.2	-71.5	0.0	0.0	0.0	0.0	0.0
57+00.00	58+00.00	17.7	75.3	45.8	0.0	23.2	39.9	1.2	15.3	15.0	64.0	38.9	0.0	3.8	37.5	43.6	0.0	11.2	26.5	-4.7	0.0	0.0	0.0	0.0	0.0
58+00.00	59+00.00	16.9	61.2	59.3	0.0	23.9	31.3	0.0	24.1	14.4	52.0	50.4	0.0	0.8	66.0	46.8	0.0	13.6	-14.0	3.6	0.0	0.0	0.0	0.0	0.0
59+00.00	60+00.00	4.6	119.4	102.5	0.0	10.9	29.6	0.0	14.7	3.9	101.5	87.1	0.0	3.4	1.3	23.2	0.0	0.5	100.2	63.9	0.0	0.0	0.0	0.0	0.0
60+00.00	60+07.50	0.5	4.4	4.3	0.0	0.9	0.8	0.0	0.9	0.4	3.7	3.7	0.0	0.0	0.1	0.9	0.0	0.4	3.7	2.7	0.0	0.0	0.0	0.0	0.0
60+07.50		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	STAGE TOTALS	577.9	1490.9	275.6	895.4	438.6	799.7	83.6	315.2	491.2	1267.3	234.3	761.1	164.2	679.9	755.7	424.3	327.0	587.4	-521.4	336.8	0.0	0.0	0.0	0.0
GATES ST (CRYSTAL LAKE)																									
30+50.00	30+59.04	0.0	15.5	0.0	0.0	0.0	6.1	0.0	0.0	0.0	13.2	0.0	0.0	0.0	5.6	0.0	0.0	0.0	7.6	0.0	0.0	0.0	0.0	0.0	0.0
30+59.04	31+00.00	0.0	62.3	0.0	0.0	0.0	24.7	0.0	0.0	0.0	52.9	0.0	0.0	0.0	20.0	0.0	0.0	0.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0
31+00.00	31+18.05	0.0	15.4	0.0	0.0	0.0	2.2	0.0	0.0	0.0	13.1	0.0	0.0	0.0	0.9	0.0	0.0	0.0	12.2	0.0	0.0	0.0	0.0	0.0	0.0
31+18.05		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	STAGE TOTALS	0.0	93.2	0.0	0.0	0.0	33.0	0.0	0.0	0.0	79.2	0.0	0.0	0.0	26.5	0.0	0.0	0.0	52.7	0.0	0.0	0.0	0.0	0.0	0.0
WALKUP RD (CRYSTAL LAKE)																									
43+52.52	43+72.57	0.0	36.0	0.0	0.0	0.0	11.3	0.0	0.0	0.0	30.6	0.0	0.0	0.0	14.5	0.0	0.0	0.0	16.1	0.0	0.0	0.0	0.0	0.0	0.0
43+72.57	44+00.00	0.0	89.0	0.0	0.0	0.0	39.0	0.0	0.0	0.0	75.7	0.0	0.0	0.0	29.0	0.0	0.0	0.0	46.7	0.0	0.0	0.0	16.7	0.0	0.0
44+00.00	45+00.00	0.0	220.1	0.0	0.0	0.0	133.8	0.0	0.0	0.0	187.1	0.0	0.0	0.0	111.5	0.0	0.0	0.0	75.5	0.0	0.0	0.0	78.4	0.0	0.0
45+00.00	46+00.00	0.0	406.0	0.0	0.0	0.0	149.7	0.0	0.0	0.0	345.1	0.0	0.0	0.0	35.3	0.0	0.0	0.0	309.8	0.0	0.0	0.0	61.3	0.0	0.0
46+00.00	47+00.00	0.0	479.5	0.0	0.0	0.0	227.6	0.0	0.0	0.0	407.6	0.0	0.0	0.0	25.1	0.0	0.0	0.0	382.5	0.0	0.0	0.0	127.4	0.0	0.0
47+00.00	48+00.00	0.0	193.9	0.0	0.0	0.0	95.5	0.0	0.0	0.0	164.8	0.0	0.0	0.0	21.8	0.0	0.0	0.0	143.0	0.0	0.0	0.0	78.4	0.0	0.0
48+00.00	49+00.00	0.0	254.4	0.0	0.0	0.0	109.1	0.0	0.0	0.0	216.2	0.0	0.0	0.0	9.7	0.0	0.0	0.0	206.5	0.0	0.0	0.0	61.3	0.0	0.0
49+00.00	50+00.00	0.0	222.1	0.0	0.0	0.0	120.6	0.0	0.0	0.0	188.8	0.0	0.0	0.0	15.3	0.0	0.0	0.0	173.5	0.0	0.0	0.0	66.6	0.0	0.0
50+00.00		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	STAGE TOTALS	0.0	1901.0	0.0	0.0	0.0	886.5	0.0	0.0	0.0	1615.8	0.0	0.0	0.0	262.3	0.0	0.0	0.0	1353.6	0.0	0.0	0.0	490.1	0.0	0.0
WALKUP RD (CRYSTAL LAKE)																									
44+00.00	Drywell Park	0.0	280.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	238.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	238.0	0.0	0.0	0.0	0.0	0.0	0.0
	STAGE TOTALS	0.0	280.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	238.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	238.0	0.0	0.0	0.0	0.0	0.0	0.0
WALKUP RD (MCHENRY)																									
50+00.00	51+00.00	79.1	0.0	64.3	64.6	36.9	0.0	30.6	11.0	67.2	0.0	54.6	55.0	0.5	0.0	12.4	34.0	66.8	0.0	42.3	21.0	0.0	0.0	16.7	16.7
51+00.00	52+00.00	129.9	0.0	146.8	152.9	72.3	0.0	58.7	9.3	110.4	0.0	124.8	129.9	0.9	0.0	12.7	60.8	109.5	0.0	112.1	69.2	0.0	0.0	0.0	0.0
52+00.00	53+00.00	99.9	0.0	184.1	213.0	35.4	0.0	55.9	4.7	84.9	0.0	156.5	181.1	1.7	0.0	8.8	26.9	83.2	0.0	147.7	154.2	0.0	0.0	0.0	0.0
53+00.00	54+00.00	49.7	88.6	93.7	185.7	0.0	27.2	27.8	12.7	42.2	75.3	79.7	157.9	8.7	0.4	8.4	1.3	33.5	75.0	71.2	156.6	0.0	0.0	0.0	0.0
54+00.00	55+00.00	4.8	125.5	0.0	152.8	0.0	54.8	0.0	12.7	4.1	106.7	0.0	129.9	7.5	92.8	0.0	1.2	-3.4	13.9	0.0	128.7	0.0	0.0	0.0	0.0
55+00.00	56+00.00	4.2	69.6	0.0	134.6	20.2	54.5	0.0	7.1	3.6	59.1	0.0	114.4	0.5	222.1	0.0	4.6	3.1	-162.9	0.0	109.8	0.0	0.0	0.0	0.0
56+00.00	57+00.00	1.6	85.7	0.0	110.1	26.8	49.7	0.0	7.1	1.3	72.9	0.0	93.6	1.1	219.2	0.0	4.6	0.2	-146.4	0.0	89.0	0.0	0.0	0.0	0.0
57+00.00	58+00.00	47.1	113.4	0.0	101.3	23.2	37.0	0.0	11.1	40.0	96.3	0.0	86.1	1.0	125.4	0.0	39.9	39.0	-29.0	0.0	46.2	0.0	0.0	0.0	0.0
58+00.00	59+00.00	74.2	109.4	0.0	82.1	16.6	20.7	0.0	11.1	63.1	93.0	0.0	69.8	2.1	63.7	0.0	79.9	61.0	29.3	0.0	-10.1	0.0	0.0	0.0	0.0
59+00.00	60+00.00	62.7	90.5	0.0	82.7	17.4	13.7	0.0	19.7	53.3	76.9	0.0	70.3	2.2	60.6	0.0	43.7	51.1	16.3	0.0	26.6	0.0	0.0	0.0	0.0
60+00.00	61+00.00	62.0	96.7	0.0	97.8	34.7	20.4	0.0	39.6	52.7	82.2	0.0	83.1	1.0	62.5	0.0	4.3	51.7	19.7	0.0	78.8	0.0	0.0	0.0	0.0
61+00.00	62+00.00	53.0	124.9	0.0	117.7	33.9	27.6	0.0	39.8	45.0	106.2	0.0	100.0	1.0	36.2	0.0	1.2	44.0	70.0	0.0	98.9	0.0	0.0	0.0	0.0
62+00.00	63+00.00	39.3	134.1	0.0	125.1	27.2	25.6	0.0	39.4	33.4	114.0	0.0	106.3	0.9	12.9	0.0	6.3	32.5	101.1	0.0	100.0	0.0	0.0	0.0	0.0
63+00.00	64+00.00	31.0	81.6	0.0	84.9	25.8	23.1	0.0	27.7	26.4	69.4	0.0	72.2	0.9	81.9	0.0	13.7	25.5	-12.5	0.0	58.4	0.0	0.0	0.0	0.0
64+00.00	65+00.00	46.4	17.8	0.0	31.6	32.9	19.4	0.0	27.7	39.4	15.1	0.0	26.9	1.0	161.3	0.0	16.7	38.5	-146.2	0.0	10.2	0.0	0.0	0.0	0.0
65+00.00	66+00.00	191.2	6.7	0.0	7.1	48.2	17.1	0.0	34.2	162.5	5.7	0.0	6.0	1.5	162.7	0.0	48.9	161.0	-157.0	0.0	-42.9	0.0	0.0	0.0	0.0
66+00.00	67+00.00	181.4	28.4	0.0	19.9	53.5	18.7	0.0	20.9	154.2	24.2	0.0	16.9	4.8	137.0	0.0	66.3	149.4	-112.9	0.0	-49.4	0.0	0.0	0.0	0.0
67+00.00	68+00.00	63.5	61.6	0.0	55.4	50.4	22.1	0.0	10.9	53.9	52.4	0.0	47.0	7.7	113.3	0.0	44.3	46.3	-60.9	0.0	2.7	0.0	0.0	0.0	0.0
68+00.00	69+00.00	45.1	77.4	0.0	90.0	48.2	34.2	0.0	14.9	38.3	65.8	0.0	76.5	14.1	140.9	0.0	31.9	24.2	-75.1	0.0	44.6	0.0	0.0	0.0	0.0
69+00.00	70+00.00	19.8	73.4	0.0	105.7	50.6	48.7	0.0	20.4	16.8	62.4	0.0	89.9	32.5	207.4	0.0	27.3	-15.7	-145.0	0.0	62.5	0.0	0.0	0.0	0.0
70+00.00	71+00.00	26.6	77.0	0.0	118.4	52.1	46.3	0.0	20.3	22.6	65.4	0.0	100.6	42.9	191.4	0.0	24.0	-20.3	-126.0	0.0	76.7	0.0	0.0	0.0	0.0
71+00.00	72+00.00	9.4	87.7	0.0	116.3	22.2	81.4	0.0	49.2	8.0	74.6	0.0	98.9	26.7	183.3	0.0	11.7	-18.7	-108.8	0.0	87.2	0.0	0.0	0.0	0.0
72+00.00	73+00.00	5.4	104.6	0.0	104.8	22.2	85.6	0.0	40.0	4.6	88.9	0.0	89.1	24.3	206.7	0.0	7.9	-19.7	-117.8	0.0	81.2	0.0	38.9	0.0	39.2
73+00.00	74+00.00	28.2	127.4	0.0	114.7	43.5	100.7	0.0	80.8	24.0	108.3	0.0	97.5	25.8	95.5	0.0	12.4	-1.8	12.8	0.0	85.1	0.0	77.7	0.0	78.4
74+00.00	75+00.00	34.1	123.1	0.0	116.6	42.6	96.6	0.0	85.0	28.9	104.6	0.0	99.1	45.6	70.2	0.0	12.5	-16.7	34.4	0.0	86.6	0.0	77.7	0.0	78.4
75+00.00	76+00.00	10.2	106.4	0.0	128.5	21.4	130.5	0.0	83.4	8.7	90.4	0.0	109.2	65.8	260.1	0.0	6.6	-57.1	-169.7	0.0	102.7	0.0	77.7	0.0	78.4
76+00.00	77+00.00	2.3	113.4	0.0	153.4	13.9	145.8	0.0	87.7	2.0	96.4	0.0	130.3	56.8	218.3	0.0	4.5	-54.9	-122.0	0.0	125.8	0.0	82.1	0.0	78.4
77+00.00	78+00.00	14.2	141.9	0.0	143.5	27.6	154.4	0.0	87.7	12.0	120.6	0.0	122.0	30.9	51.5	0.0	8.7	-18.9	69.1	0.0	113.3	0.0	96.7	0.0	78.4
78+00.00	79+00.00	40.2	170.0	0.0	117.5	29.7	160.6	0.0	86.3	34.2	144.5	0.0	99.9	2.4	24.2	0.0	10.8	31.8	120.3	0.0	89.0	0.0	114.5	0.0	78.4
79+00.00	80+00.00	49.2	156.6	0.0	102.7	28.8	171.3	0.0	91.8	41.8	133.1	0.0	87.3	1.0	37.4	0.0	14.6	40.8	95.6	0.0	72.7	0.0	122.2	0.0	78.4
80+00.00	81+00.00	31.8	143.6	0.0	101.5	23.3	125.0	0.0	86.2	27.1	122.1	0.0	86.3	0.9	43.9	0.0	12.4	26.1	78.1	0.0	73.9	0.0	129.6	0.0	78.4
81+00.00	81+53.97	5.9	72.3	0.0	66.0	5.7	41.2	0.0	25.4	5.1	61.4	0.0	56.1	0.2	4.8	0.0	4.4	4.8	56.7	0.0	51.7	0.0	57.9	0.0	42.3
81+53.97		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	STAGE TOTALS	1543.4	2809.4	488.9	3399.0	987.0	1853.9	173.0	1205.9	1311.9	2388.0	415.6	2889.1	415.0	3287.7	42.3	688.3	896.9	-899.7	373.2	2200.8	0.0	875.1	16.7	725.8

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

SCHEDULE OF QUANTITIES SHEET 6 OF 8

SCALE: N.T.S.
DRAWN BY: RJS
DATE: 04/15/11
CHECKED BY: MCD

TENG
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS 205 N. MICHIGAN AVE. CHICAGO, IL 60601

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	027
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

SCHEDULE OF QUANTITIES

WALKUP ROAD		EARTH EXCAVATION				REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (TOPSOIL & UNDERCUT)				EXCAVATION TO BE USED IN EMBANKMENT (15% SHRINKAGE)				EMBANKMENT				EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)				POROUS GRANULAR EMBANKMENT SUBGRADE			
		PRESTAGE	STAGE I	STAGE II	STAGE III	PRESTAGE	STAGE I	STAGE II	STAGE III	PRESTAGE	STAGE I	STAGE II	STAGE III	PRESTAGE	STAGE I	STAGE II	STAGE III	PRESTAGE	STAGE I	STAGE II	STAGE III	PRESTAGE	STAGE I	STAGE II	STAGE III
STATION	TO STATION	CYD	CYD	CYD	CYD	CYD	CYD	CYD	CYD	CYD	CYD	CYD	CYD	CYD	CYD	CYD	CYD	CYD	CYD	CYD	CYD	CYD	CYD	CYD	CYD
WALKUP RD (WIDENING)																									
225+00.00	226+00.00	0.0	24.6	651.5	0.0	0.0	25.9	116.1	0.0	0.0	20.9	553.7	0.0	0.0	46.1	106.8	0.0	0.0	-25.3	446.9	0.0	0.0	0.0	0.0	0.0
226+00.00	226+40.00	0.0	11.3	424.0	0.0	0.0	18.3	80.8	0.0	0.0	9.6	360.4	0.0	0.0	15.3	56.5	0.0	0.0	-5.7	303.9	0.0	0.0	0.0	0.0	0.0
226+40.00	227+00.00	0.0	20.5	365.5	0.0	0.0	29.9	101.7	0.0	0.0	17.4	310.7	0.0	0.0	21.2	93.0	0.0	0.0	-3.8	217.7	0.0	0.0	9.4	10.4	0.0
227+00.00	228+00.00	0.0	33.5	206.6	0.0	0.0	90.4	144.3	0.0	0.0	28.5	175.6	0.0	0.0	45.7	230.9	0.0	0.0	-17.2	-55.3	0.0	0.0	32.3	34.9	0.0
228+00.00	229+00.00	0.0	36.6	22.3	0.0	0.0	51.6	89.7	0.0	0.0	31.2	18.9	0.0	0.0	26.1	238.3	0.0	0.0	5.0	-219.4	0.0	0.0	62.5	33.1	0.0
229+00.00	230+00.00	0.0	35.2	15.1	0.0	0.0	90.3	64.5	0.0	0.0	30.0	12.8	0.0	0.0	29.3	180.6	0.0	0.0	0.6	-167.8	0.0	0.0	45.9	15.5	0.0
230+00.00	231+00.00	0.0	27.1	13.0	0.0	0.0	56.9	56.8	0.0	0.0	23.1	11.1	0.0	0.0	111.5	245.6	0.0	0.0	-88.5	-234.6	0.0	0.0	0.0	0.0	0.0
231+00.00	232+00.00	0.0	39.7	11.5	0.0	0.0	61.6	51.1	0.0	0.0	33.7	9.8	0.0	0.0	124.9	241.0	0.0	0.0	-91.1	-231.2	0.0	0.0	0.0	0.0	0.0
232+00.00	233+00.00	0.0	44.4	23.4	0.0	0.0	50.3	41.2	0.0	0.0	37.8	19.9	0.0	0.0	61.2	111.0	0.0	0.0	-23.4	-91.1	0.0	0.0	0.0	0.0	0.0
233+00.00	234+00.00	0.0	45.4	35.9	0.0	0.0	41.1	38.0	0.0	0.0	38.6	30.5	0.0	0.0	38.8	33.7	0.0	0.0	-0.2	-3.3	0.0	0.0	0.0	0.0	0.0
234+00.00	235+00.00	0.0	73.9	46.5	0.0	0.0	43.7	40.4	0.0	0.0	62.8	39.5	0.0	0.0	23.4	33.8	0.0	0.0	39.4	5.8	0.0	0.0	0.0	0.0	0.0
235+00.00	236+00.00	0.0	108.1	52.4	0.0	0.0	36.8	40.6	0.0	0.0	91.9	44.5	0.0	0.0	4.8	43.8	0.0	0.0	87.1	0.7	0.0	0.0	0.0	0.0	0.0
236+00.00	237+00.00	0.0	69.6	34.6	0.0	0.0	40.9	41.8	0.0	0.0	59.2	29.4	0.0	0.0	28.1	62.9	0.0	0.0	31.1	-33.5	0.0	0.0	0.0	0.0	0.0
237+00.00	238+00.00	0.0	14.2	20.1	0.0	0.0	50.5	42.8	0.0	0.0	12.1	17.1	0.0	0.0	67.0	83.8	0.0	0.0	-54.9	-66.7	0.0	0.0	0.0	0.0	0.0
238+00.00	239+00.00	0.0	14.8	15.4	0.0	0.0	46.1	42.4	0.0	0.0	12.5	13.1	0.0	0.0	67.0	90.2	0.0	0.0	-54.5	-77.1	0.0	0.0	0.0	0.0	0.0
239+00.00	240+00.00	0.0	42.7	13.0	0.0	0.0	45.3	38.7	0.0	0.0	36.3	11.1	0.0	0.0	45.1	68.3	0.0	0.0	-8.8	-57.3	0.0	0.0	0.0	0.0	0.0
240+00.00	241+00.00	0.0	77.6	28.0	0.0	0.0	45.9	23.0	0.0	0.0	65.9	23.8	0.0	0.0	31.7	25.0	0.0	0.0	34.2	-1.2	0.0	0.0	0.0	0.0	0.0
241+00.00	242+00.00	0.0	82.6	92.3	0.0	0.0	45.0	26.8	0.0	0.0	70.2	78.5	0.0	0.0	28.7	2.3	0.0	0.0	41.5	76.2	0.0	0.0	0.0	0.0	0.0
242+00.00	243+00.00	0.0	69.0	123.6	0.0	0.0	47.6	42.5	0.0	0.0	58.7	105.1	0.0	0.0	45.5	1.2	0.0	0.0	13.1	103.9	0.0	0.0	0.0	0.0	0.0
243+00.00	244+00.00	0.0	39.2	60.8	0.0	0.0	67.5	62.8	0.0	0.0	33.4	51.7	0.0	0.0	89.4	53.2	0.0	0.0	-56.0	-1.5	0.0	0.0	0.0	0.0	0.0
244+00.00	245+00.00	0.0	19.3	16.3	0.0	0.0	65.7	68.4	0.0	0.0	16.4	13.8	0.0	0.0	102.4	125.1	0.0	0.0	-86.0	-111.3	0.0	0.0	24.1	24.1	0.0
245+00.00	246+00.00	0.0	47.6	21.9	0.0	0.0	148.9	69.6	0.0	0.0	40.5	18.6	0.0	0.0	147.8	82.2	0.0	0.0	-107.3	-63.5	0.0	0.0	47.3	47.7	0.0
246+00.00	247+00.00	0.0	57.6	33.2	0.0	0.0	144.7	52.1	0.0	0.0	49.0	28.3	0.0	0.0	171.6	30.7	0.0	0.0	-122.6	-2.5	0.0	0.0	45.5	48.6	0.0
247+00.00	248+00.00	0.0	37.5	57.1	0.0	0.0	84.4	72.6	0.0	0.0	31.9	48.6	0.0	0.0	88.8	31.9	0.0	0.0	-56.9	16.7	0.0	0.0	22.2	25.0	0.0
248+00.00	249+00.00	0.0	31.4	57.5	0.0	0.0	39.3	27.2	0.0	0.0	26.6	48.9	0.0	0.0	39.4	13.4	0.0	0.0	-12.8	35.5	0.0	0.0	0.0	0.0	0.0
249+00.00	250+00.00	0.0	24.1	88.9	0.0	0.0	38.3	29.4	0.0	0.0	20.5	75.6	0.0	0.0	41.5	3.1	0.0	0.0	-21.0	72.4	0.0	0.0	0.0	0.0	0.0
250+00.00	251+00.00	0.0	32.1	132.6	0.0	0.0	40.2	55.1	0.0	0.0	27.3	112.7	0.0	0.0	49.2	5.0	0.0	0.0	-21.9	107.7	0.0	0.0	0.0	0.0	0.0
251+00.00	252+00.00	0.0	32.5	69.8	0.0	0.0	20.6	52.9	0.0	0.0	27.6	59.3	0.0	0.0	39.0	33.9	0.0	0.0	-11.4	25.4	0.0	0.0	0.0	0.0	0.0
252+00.00	253+00.00	0.0	17.5	13.7	0.0	0.0	19.9	41.8	0.0	0.0	14.9	11.7	0.0	0.0	43.1	60.6	0.0	0.0	-28.3	-48.9	0.0	0.0	0.0	0.0	0.0
253+00.00	254+00.00	0.0	25.8	37.0	0.0	0.0	40.3	38.8	0.0	0.0	22.0	31.5	0.0	0.0	52.4	43.4	0.0	0.0	-30.4	-11.9	0.0	0.0	0.0	0.0	0.0
254+00.00	255+00.00	0.0	48.1	61.3	0.0	0.0	41.4	41.6	0.0	0.0	40.9	52.1	0.0	0.0	35.8	32.2	0.0	0.0	5.1	19.9	0.0	0.0	0.0	0.0	0.0
255+00.00	256+00.00	0.0	46.5	52.2	0.0	0.0	46.4	43.6	0.0	0.0	39.6	44.3	0.0	0.0	36.6	50.0	0.0	0.0	2.9	-5.7	0.0	0.0	0.0	0.0	0.0
256+00.00	257+00.00	0.0	36.9	34.3	0.0	0.0	45.7	44.2	0.0	0.0	31.4	29.2	0.0	0.0	51.1	67.6	0.0	0.0	-19.8	-38.4	0.0	0.0	0.0	0.0	0.0
257+00.00	258+00.00	0.0	53.5	26.4	0.0	0.0	20.4	39.7	0.0	0.0	45.5	22.4	0.0	0.0	28.9	68.8	0.0	0.0	16.5	-46.4	0.0	0.0	0.0	0.0	0.0
258+00.00	259+00.00	0.0	46.0	23.9	0.0	0.0	0.0	34.3	0.0	0.0	39.1	20.4	0.0	0.0	1.3	61.9	0.0	0.0	37.8	-41.5	0.0	0.0	0.0	0.0	0.0
259+00.00	260+00.00	0.0	33.4	31.7	0.0	0.0	17.5	37.9	0.0	0.0	28.4	26.9	0.0	0.0	16.9	59.0	0.0	0.0	11.5	-32.0	0.0	0.0	0.0	0.0	0.0
260+00.00	261+00.00	0.0	44.4	33.9	0.0	0.0	36.1	41.6	0.0	0.0	37.8	28.8	0.0	0.0	35.3	59.3	0.0	0.0	2.5	-30.5	0.0	0.0	0.0	0.0	0.0
261+00.00	262+00.00	0.0	30.4	24.4	0.0	0.0	30.3	41.2	0.0	0.0	25.8	20.7	0.0	0.0	52.4	70.4	0.0	0.0	-26.6	-49.7	0.0	0.0	0.0	0.0	0.0
262+00.00	263+00.00	0.0	13.5	21.6	0.0	0.0	28.2	41.9	0.0	0.0	11.4	18.4	0.0	0.0	81.7	78.0	0.0	0.0	-70.3	-59.6	0.0	0.0	0.0	0.0	0.0
263+00.00	264+00.00	0.0	13.5	18.5	0.0	0.0	34.0	46.7	0.0	0.0	11.5	15.7	0.0	0.0	105.6	118.9	0.0	0.0	-94.1	-103.1	0.0	0.0	0.0	0.0	0.0
264+00.00	265+00.00	0.0	14.4	17.4	0.0	0.0	54.4	108.2	0.0	0.0	12.2	14.8	0.0	0.0	103.8	235.0	0.0	0.0	-91.6	-220.3	0.0	0.0	0.0	0.0	0.0
265+00.00	266+00.00	0.0	16.3	16.1	0.0	0.0	59.0	100.2	0.0	0.0	13.9	13.7	0.0	0.0	98.2	199.4	0.0	0.0	-84.3	-185.7	0.0	0.0	68.0	60.1	0.0
266+00.00	267+00.00	0.0	17.6	16.9	0.0	0.0	82.8	131.1	0.0	0.0	15.0	14.4	0.0	0.0	83.7	114.6	0.0	0.0	-68.7	-100.2	0.0	0.0	85.8	117.0	0.0
267+00.00	268+00.00	0.0	23.2	19.0	0.0	0.0	69.5	114.0	0.0	0.0	19.7	16.2	0.0	0.0	63.6	180.6	0.0	0.0	-43.9	-164.5	0.0	0.0	34.4	115.3	0.0
268+00.00	269+00.00	0.0	30.6	17.9	0.0	0.0	69.3	108.2	0.0	0.0	26.0	15.2	0.0	0.0	55.9	197.7	0.0	0.0	-29.9	-182.5	0.0	0.0	34.2	103.5	0.0
269+00.00	270+00.00	0.0	53.9	18.2	0.0	0.0	100.4	93.3	0.0	0.0	45.9	15.5	0.0	0.0	55.5	134.4	0.0	0.0	-9.7	-118.9	0.0	0.0	34.6	69.8	0.0
270+00.00	270+92.00	0.0	193.0	21.5	0.0	0.0	116.1	78.6	0.0	0.0	164.0	18.3	0.0	0.0	52.6	79.9	0.0	0.0	111.5	-61.6	0.0	0.0	31.5	45.1	0.0
270+92.00	271+00.00	0.0	27.7	2.2	0.0	0.0	8.8	5.0	0.0	0.0	23.6	1.9	0.0	0.0	4.2	6.4	0.0	0.0	19.4	-4.6	0.0	0.0	2.7	3.9	0.0
271+00.00	272+00.00	0.0	306.4	22.9	0.0	0.0	109.8	60.7	0.0	0.0	260.4	19.5	0.0	0.0	58.9	91.1	0.0	0.0	201.5	-71.7	0.0	0.0	17.0	24.7	0.0
272+00.00	273+00.00	0.0	223.1	18.2	0.0	0.0	92.6	36.3	0.0	0.0	189.6	15.5	0.0	0.0	78.1	99.5	0.0	0.0	111.5	-84.0	0.0	0.0	0.0	0.0	0.0
273+00.00	274+00.00	0.0	150.4	15.4	0.0	0.0	110.0	55.0	0.0	0.0	127.8	13.0	0.0	0.0	113.3	116.4	0.0	0.0	14.5	-103.3	0.0	0.0	0.0	0.0	0.0
274+00.00	275+00.00	0.0	122.4	11.7	0.0	0.0	109.8	61.8	0.0	0.0	104.1	9.9	0.0	0.0	154.2	136.0	0.0	0.0	-50.1	-126.1	0.0	0.0	18.2	23.6	0.0
275+00.00	276+00.00	0.0	167.3	15.3	0.0	0.0	124.1	81.5	0.0	0.0	142.2	13.0	0.0	0.0	165.6	122.7	0.0	0.0	-23.4	-109.6	0.0	0.0	35.3	47.6	0.0
276+00.00	277+00.00	0.0	126.9	20.7	0.0	0.0	107.9	81.3	0.0	0.0	107.8	17.6	0.0	0.0	161.3	104.4	0.0	0.0	-53.5	-86.8	0.0	0.0	33.0	49.5	0.0
277+00.00	277+50.00	0.0	13.4	9.5	0.0	0.0	32.9	31.1	0.0	0.0	11.4	8.1	0.0	0.0	82.4	52.6	0.0	0.0	-71.0	-44.5	0.0	0.0	15.3	25.9	0.0
277+50.00	278+00.00	0.0	4.5	7.1	0.0	0.0	24.8	31.9	0.0	0.0	3.8	6.0	0.0	0.0	77.3	61.2	0.0	0.0	-73.5	-55.2	0.0	0.0	7.4	13.1	0.0
278+00.00	279+00.00	0.0	17.6	16.2	0.0	0.0	36.3	44.6	0.0	0.0	14.9	13.7	0.0	0.0	85.9	99.4	0.0	0.0	-71.0	-85.6	0.0	0.0	0.0	0.0	0.0
279+00.00	280+00.00	0.0	29.5	42.2	0.0	0.0	34.5	40.1	0.0	0.0	25.0	35.9	0.0	0.0	24.1	40.7	0.0	0.0	0.9	-4.8	0.0	0.0	0.0	0.0	0.0
280+00.00	281+00.00	0.0	66.5	55.7	0.0	0.0	37.2	32.0	0.0	0.0	56.6	47.3	0.0	0.0	12.5	22.0	0.0	0.0	44.0	25.4	0.0	0.0	0.0	0.0	0.0
281+00.00	282+00.00	0.0	105.9	46.3	0.0	0.0	42.5	32.7	0.0	0.0	90.0	39.3	0.0	0.0	3.8	32.1	0.0	0.0	86.2	7.3	0.0	0.0	0.0	0.0	0.0
282+00.00	283+00.00	0.0	92.4	45.0	0.0	0.0	41.7	33.9	0.0	0.0	78.6	38.2	0.0	0.0	4.2	34.9	0.0	0.0	74.4	3.3	0.0	0.0	0.0	0.0	0.0
283+00.00	284+00.00	0.0	63.3	55.5	0.0	0.0	40.7	35.5	0.0	0.0	53.8	47.1	0.0	0.0	16.7	32.8	0.0	0.0	37.0	14.3	0.0	0.0	0.0	0.0	0.0
284+00.00	285+00.00	0.0	73.1	55.4	0.0	0.0	20.0	37.9	0.0	0.0	62.1	47.0	0.0	0.0	13.5	32.6	0.0	0.0	48.6	14.4	0.0	0.0	0.0	0.0	0.0
285+00.00	286+00.00	0.0	77.1	39.5	0.0	0.0	18.6	38.3	0.0	0.0	65.6	33.5	0.0	0.0	14.3	38.4	0.0	0.0	51.3	-4.9	0.0	0.0	0.0	0.0	0.0
286+00.00	287+00.00	0.0	55.0	27.0	0.0	0.0	36.6	42.4	0.0	0.0	46.7	23.0	0.0	0.0	31.1	54.0	0.0	0.0	15.6	-31.0	0.0	0.0	0.0	0.0	0.0
287+00.00	288+00.00	0.0	45.9	20.9	0.0	0.0	36.3	40.6	0.0	0.0	39.0	17.8	0.0	0.0	37.3	51.9	0.0	0.0	1.7	-34.2	0.0	0.0	0.0	0.0	0.0
288+00.00	289+00.00	0.0	45.9	21.4	0.0	0.0	48.6	31.9	0.0	0.0	39.0	18.2	0.0	0.0	49.7	35.2	0.0	0.0	-10.7	-17.0	0.0	0.0	0.0	0.0	0.0
289+00.00	290+00.00	0.0	37.0	25.4	0.0	0.0	47.0	26.9	0.0	0.0	31.5	21.5	0.0	0.0	49.6	19.9	0.0	0.0	-18.2	1.6	0.0	0.0	0.0	0.0	0.0
290+00.00	291+00.00	0.0	34.7	63.1	0.0	0.0	33.2	32.6	0.0	0.0	29.5	53.6	0.0	0.0	43.4	10.5	0.0	0.0	-13.8	43.1	0.0	0.0	0.0	0.0	0.0

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

SCHEDULE OF QUANTITIES
SHEET 7 OF 8

SCALE: N.T.S. DRAWN BY: RJS
DATE: 04/15/11 CHECKED BY: MCD

TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	028
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

SCHEDULE OF QUANTITIES

WALKUP ROAD		EARTH EXCAVATION				REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (TOPSOIL & UNDERCUT)				EXCAVATION TO BE USED IN EMBANKMENT (15% SHRINKAGE)				EMBANKMENT				EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)				POROUS GRANULAR EMBANKMENT SUBGRADE			
STATION	TO STATION	PRESTAGE CYD	STAGE I CYD	STAGE II CYD	STAGE III CYD	PRESTAGE CYD	STAGE I CYD	STAGE II CYD	STAGE III CYD	PRESTAGE CYD	STAGE I CYD	STAGE II CYD	STAGE III CYD	PRESTAGE CYD	STAGE I CYD	STAGE II CYD	STAGE III CYD	PRESTAGE CYD	STAGE I CYD	STAGE II CYD	STAGE III CYD	PRESTAGE CYD	STAGE I CYD	STAGE II CYD	STAGE III CYD
291+00.00	292+00.00	0.0	36.2	70.0	0.0	0.0	28.8	33.5	0.0	0.0	30.8	59.5	0.0	0.0	39.6	6.3	0.0	0.0	-8.8	53.3	0.0	0.0	0.0	0.0	0.0
292+00.00	293+00.00	0.0	33.6	38.7	0.0	0.0	30.4	30.0	0.0	0.0	28.6	32.9	0.0	0.0	47.1	8.6	0.0	0.0	-18.6	24.3	0.0	0.0	0.0	0.0	0.0
293+00.00	294+00.00	0.0	35.7	47.8	0.0	0.0	35.1	38.1	0.0	0.0	30.3	40.6	0.0	0.0	61.4	15.9	0.0	0.0	-31.0	24.7	0.0	0.0	0.0	0.0	0.0
294+00.00	295+00.00	0.0	28.5	52.3	0.0	0.0	35.0	39.7	0.0	0.0	24.2	44.4	0.0	0.0	66.4	22.9	0.0	0.0	-42.2	21.6	0.0	0.0	0.0	0.0	0.0
295+00.00	296+00.00	0.0	29.6	44.4	0.0	0.0	34.9	35.5	0.0	0.0	25.2	37.7	0.0	0.0	56.6	19.9	0.0	0.0	-31.4	17.8	0.0	0.0	0.0	0.0	0.0
296+00.00	297+00.00	0.0	22.2	66.1	0.0	0.0	35.7	38.9	0.0	0.0	18.9	56.2	0.0	0.0	41.1	10.4	0.0	0.0	-22.2	45.8	0.0	0.0	0.0	0.0	0.0
297+00.00	298+00.00	0.0	10.0	65.4	0.0	0.0	18.8	38.8	0.0	0.0	8.5	55.6	0.0	0.0	40.5	10.4	0.0	0.0	-32.0	45.2	0.0	0.0	0.0	0.0	0.0
298+00.00	298+70.00	0.0	10.2	28.6	0.0	0.0	10.9	24.5	0.0	0.0	8.7	24.3	0.0	0.0	49.3	12.5	0.0	0.0	-40.6	11.8	0.0	0.0	0.0	0.0	0.0
298+70.00	299+00.00	0.0	5.4	9.7	0.0	0.0	9.4	10.4	0.0	0.0	4.6	8.3	0.0	0.0	30.0	9.5	0.0	0.0	-25.3	-1.2	0.0	0.0	0.0	0.0	0.0
299+00.00	299+32.08	0.0	21.6	9.0	0.0	0.0	17.6	11.1	0.0	0.0	18.4	7.7	0.0	0.0	37.8	13.4	0.0	0.0	-19.4	-5.8	0.0	0.0	0.0	0.0	0.0
299+32.08	300+00.00	0.0	74.8	19.0	0.0	0.0	53.0	24.7	0.0	0.0	63.6	16.1	0.0	0.0	97.3	36.3	0.0	0.0	-33.7	-20.2	0.0	0.0	0.0	0.0	0.0
300+00.00	301+00.00	0.0	111.2	28.1	0.0	0.0	78.2	39.6	0.0	0.0	94.5	23.9	0.0	0.0	148.3	75.6	0.0	0.0	-53.8	-51.7	0.0	0.0	0.0	0.0	0.0
301+00.00	302+00.00	0.0	173.6	28.4	0.0	0.0	77.4	40.8	0.0	0.0	147.6	24.2	0.0	0.0	133.1	88.8	0.0	0.0	14.5	-64.6	0.0	0.0	0.0	0.0	0.0
302+00.00	303+00.00	0.0	239.2	24.2	0.0	0.0	75.8	35.9	0.0	0.0	203.3	20.6	0.0	0.0	112.7	89.0	0.0	0.0	90.6	-68.4	0.0	0.0	0.0	0.0	0.0
303+00.00	304+00.00	0.0	243.6	19.1	0.0	0.0	76.2	34.1	0.0	0.0	207.1	16.2	0.0	0.0	104.3	96.0	0.0	0.0	102.8	-79.7	0.0	0.0	0.0	0.0	0.0
304+00.00	305+00.00	0.0	214.3	18.1	0.0	0.0	76.9	35.7	0.0	0.0	182.2	15.3	0.0	0.0	99.6	101.5	0.0	0.0	82.5	-86.2	0.0	0.0	0.0	0.0	0.0
305+00.00	306+00.00	0.0	170.7	18.6	0.0	0.0	76.5	33.2	0.0	0.0	145.1	15.8	0.0	0.0	96.9	95.1	0.0	0.0	48.2	-79.4	0.0	0.0	0.0	0.0	0.0
306+00.00	307+00.00	0.0	146.3	20.8	0.0	0.0	76.4	34.6	0.0	0.0	124.3	17.7	0.0	0.0	85.0	89.9	0.0	0.0	39.4	-72.2	0.0	0.0	0.0	0.0	0.0
307+00.00	307+45.00	0.0	47.0	15.0	0.0	0.0	26.6	14.1	0.0	0.0	40.0	12.8	0.0	0.0	28.7	36.9	0.0	0.0	11.2	-24.2	0.0	0.0	0.0	0.0	0.0
307+45.00		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	STAGE TOTALS	0.0	5490.5	4498.4	0.0	0.0	4547.1	4346.8	0.0	0.0	4666.9	3823.6	0.0	0.0	5342.0	6372.6	0.0	0.0	-675.1	-2549.0	0.0	0.0	706.7	938.5	0.0
MASON HILL RD (MCHENRY)																									
20+40.00	21+00.00	0.0	3.4	8.7	0.0	0.0	8.6	10.7	0.0	0.0	2.9	7.4	0.0	0.0	9.9	2.6	0.0	0.0	-7.0	4.9	0.0	0.0	0.0	0.0	0.0
21+00.00	22+00.00	0.0	3.2	10.5	0.0	0.0	22.8	19.2	0.0	0.0	2.7	8.9	0.0	0.0	53.5	11.7	0.0	0.0	-50.8	-2.8	0.0	0.0	0.0	0.0	0.0
22+00.00	22+28.28	0.0	0.0	1.0	0.0	0.0	6.7	5.1	0.0	0.0	0.0	0.9	0.0	0.0	21.5	6.1	0.0	0.0	-21.5	-5.3	0.0	0.0	0.0	0.0	0.0
22+28.28	22+58.52	0.0	0.0	0.6	0.0	0.0	8.8	5.8	0.0	0.0	0.0	0.5	0.0	0.0	32.5	10.9	0.0	0.0	-32.4	-10.5	0.0	0.0	0.0	0.0	0.0
22+58.52	22+81.46	0.0	0.1	0.3	0.0	0.0	7.3	8.6	0.0	0.0	0.1	0.3	0.0	0.0	16.2	15.3	0.0	0.0	-16.1	-15.0	0.0	0.0	0.0	0.0	0.0
22+81.46	23+00.00	0.0	0.0	0.3	0.0	0.0	7.2	6.9	0.0	0.0	0.0	0.2	0.0	0.0	27.3	15.9	0.0	0.0	-27.2	-15.7	0.0	0.0	0.0	0.0	0.0
23+00.00	23+15.49	0.0	0.1	0.1	0.0	0.0	7.4	7.4	0.0	0.0	0.1	0.1	0.0	0.0	16.3	13.5	0.0	0.0	-16.2	-13.4	0.0	0.0	0.0	0.0	0.0
23+15.49	23+32.34	0.0	0.0	0.0	0.0	0.0	4.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	13.6	9.9	0.0	0.0	-13.6	-9.9	0.0	0.0	0.0	0.0	0.0
23+32.34		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	STAGE TOTALS	0.0	7.0	21.5	0.0	0.0	72.7	67.9	0.0	0.0	5.9	18.3	0.0	0.0	190.8	86.0	0.0	0.0	-184.9	-67.7	0.0	0.0	0.0	0.0	0.0
	IL RTE 176	577.9	1490.9	275.6	895.4	438.6	799.7	83.6	315.2	491.2	1267.3	234.3	761.1	164.2	679.9	755.7	424.3	327.0	587.4	-521.4	336.8	0.0	0.0	0.0	0.0
	GATES ST	0.0	93.2	0.0	0.0	0.0	33.0	0.0	0.0	0.0	79.2	0.0	0.0	0.0	26.5	0.0	0.0	0.0	52.7	0.0	0.0	0.0	0.0	0.0	0.0
	WALKUP RD (CRYSTAL LAKE)	0.0	1901.0	0.0	0.0	0.0	886.5	0.0	0.0	0.0	1615.8	0.0	0.0	0.0	262.3	0.0	0.0	0.0	1353.6	0.0	0.0	0.0	490.1	0.0	0.0
	DRYWELL PARK	0.0	280.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	238.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	238.0	0.0	0.0	0.0	0.0	0.0	0.0
	WALKUP RD (MCHENRY)	1543.4	8299.9	4987.3	3399.0	987.0	6401.1	4519.8	1205.9	1311.9	7054.9	4239.2	2889.1	415.0	8629.7	6414.9	688.3	896.9	-1574.8	-2175.7	2200.8	0.0	1581.8	955.1	725.8
	MASON HILL RD	0.0	7.0	21.5	0.0	0.0	72.7	67.9	0.0	0.0	5.9	18.3	0.0	0.0	190.8	86.0	0.0	0.0	-184.9	-67.7	0.0	0.0	0.0	0.0	0.0
	STAGE TOTALS	2121.2	12072.0	5284.4	4294.3	1425.6	8192.9	4671.3	1521.0	1803.1	10261.2	4491.7	3650.2	579.2	9789.1	7256.6	1112.6	1223.9	472.0	-2764.9	2537.6	0.0	2071.9	955.1	725.8
	GRAND TOTALS				23772.0				15810.9				20206.2				18737.5				1468.7				3752.8

NOTE:

1. THE CALCULATED QUANTITIES FOR REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL AND POROUS GRANULAR EMBANKMENT, SUBGRADE HAVE BEEN INCREASED TO ALLOW FOR A 12" UNDERCUT OVER 5% OF THE NEW PAVEMENT AREAS TO ACCOUNT FOR LOCALIZED AREAS OF FROST-SUSCEPTIBLE SOILS AND VARIATIONS IN FIELD CONDITIONS.

ESTIMATED UNDERCUT

LOCATION	FR STA	TO STA	DEPTH
WALKUP	46+00	49+50	6"
WALKUP	73+50	76+50	12"
WALKUP	78+50	81+50	12"
WALKUP	226+50	229+50	12"
WALKUP	244+50	247+50	18"
WALKUP	265+50	271+50	18"
WALKUP	274+50	277+50	18"
WALKUP	292+50	295+50	18"

REVISIONS	
NAME	DATE

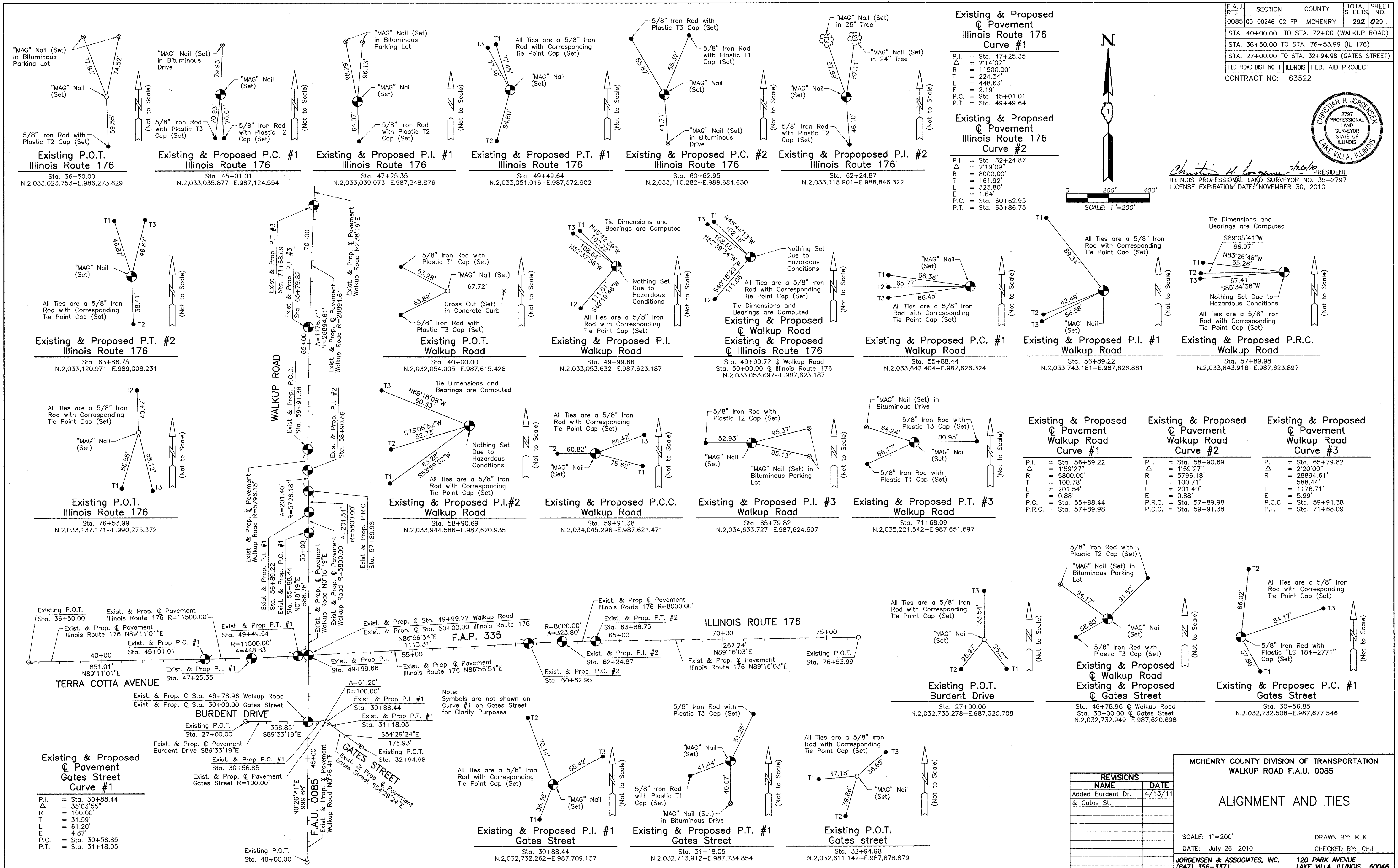
MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

SCHEDULE OF QUANTITIES
SHEET 8 OF 8

SCALE: N.T.S. DRAWN BY: RJS
DATE: 04/15/11 CHECKED BY: MCD

TENG

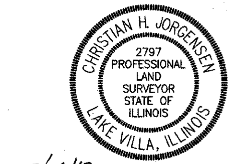
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS



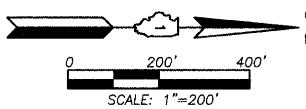
F.A.U. RTE. 0085 | SECTION 00-00246-02-FP | COUNTY MCHENRY | TOTAL SHEETS 292 | SHEET NO. 029
STA. 40+00.00 TO STA. 72+00 (WALKUP ROAD)
STA. 36+50.00 TO STA. 76+53.99 (IL 176)
STA. 27+00.00 TO STA. 32+94.98 (GATES STREET)
FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT
CONTRACT NO: 63522
CHRISTIAN H. JORGENSEN 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS LAKE VILLA, ILLINOIS
PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2010
N
0 200' 400'
SCALE: 1"=200'
Existing P.O.T. Illinois Route 176
Sta. 36+50.00
N.2,033,023.753–E.986,273.629
Existing & Proposed P.C. #1 Illinois Route 176
Sta. 45+01.01
N.2,033,035.877–E.987,124.554
Existing & Proposed P.I. #1 Illinois Route 176
Sta. 47+25.35
N.2,033,039.073–E.987,348.876
Existing & Proposed P.T. #1 Illinois Route 176
Sta. 49+49.64
N.2,033,051.016–E.987,572.902
Existing & Proposed P.C. #2 Illinois Route 176
Sta. 60+62.95
N.2,033,110.282–E.988,684.630
Existing & Propoposed P.I. #2 Illinois Route 176
Sta. 62+24.87
N.2,033,118.901–E.988,846.322
Existing & Proposed ℄ Pavement Illinois Route 176 Curve #1
P.I. = Sta. 47+25.35
Δ = 2°14'07"
R = 11500.00'
T = 224.34'
L = 448.63'
E = 2.19'
P.C. = Sta. 45+01.01
P.T. = Sta. 49+49.64
Existing & Proposed ℄ Pavement Illinois Route 176 Curve #2
P.I. = Sta. 62+24.87
Δ = 2°19'09"
R = 8000.00'
T = 161.92'
L = 323.80'
E = 1.64'
P.C. = Sta. 60+62.95
P.T. = Sta. 63+86.75
Existing & Proposed P.T. #2 Illinois Route 176
Sta. 63+86.75
N.2,033,120.971–E.989,008.231
Existing P.O.T. Walkup Road
Sta. 40+00.00
N.2,032,054.005–E.987,615.428
Existing & Proposed P.I. Walkup Road
Sta. 49+99.66
N.2,033,053.632–E.987,623.187
Existing & Proposed ℄ Walkup Road
Existing & Proposed ℄ Illinois Route 176
Sta. 49+99.72 ℄ Walkup Road
Sta. 50+00.00 ℄ Illinois Route 176
N.2,033,053.697–E.987,623.187
Existing & Proposed P.C. #1 Walkup Road
Sta. 55+88.44
N.2,033,642.404–E.987,626.324
Existing & Proposed P.I. #1 Walkup Road
Sta. 56+89.22
N.2,033,743.181–E.987,626.861
Existing & Proposed P.R.C. Walkup Road
Sta. 57+89.98
N.2,033,843.916–E.987,623.897
Existing P.O.T. Illinois Route 176
Sta. 76+53.99
N.2,033,137.171–E.990,275.372
Existing & Proposed P.I.#2 Walkup Road
Sta. 58+90.69
N.2,033,944.586–E.987,620.935
Existing & Proposed P.C.C. Walkup Road
Sta. 59+91.38
N.2,034,045.296–E.987,621.471
Existing & Proposed P.I. #3 Walkup Road
Sta. 65+79.82
N.2,034,633.727–E.987,624.607
Existing & Proposed P.T. #3 Walkup Road
Sta. 71+68.09
N.2,035,221.542–E.987,651.697
Existing & Proposed ℄ Pavement Walkup Road Curve #1
P.I. = Sta. 56+89.22
Δ = 1°59'27"
R = 5800.00'
T = 100.78'
L = 201.54'
E = 0.88'
P.C. = Sta. 55+88.44
P.R.C. = Sta. 57+89.98
Existing & Proposed ℄ Pavement Walkup Road Curve #2
P.I. = Sta. 58+90.69
Δ = 1°59'27"
R = 5796.18'
T = 100.71'
L = 201.40'
E = 0.88'
P.R.C. = Sta. 57+89.98
P.C.C. = Sta. 59+91.38
Existing & Proposed ℄ Pavement Walkup Road Curve #3
P.I. = Sta. 65+79.82
Δ = 2°20'00"
R = 28894.61'
T = 588.44'
L = 1176.71'
E = 5.99'
P.C.C. = Sta. 59+91.38
P.T. = Sta. 71+68.09
Existing P.O.T. Burdent Drive
Sta. 27+00.00
N.2,032,735.278–E.987,320.708
Existing & Proposed ℄ Walkup Road
Existing & Proposed ℄ Gates Street
Sta. 46+78.96 ℄ Walkup Road
Sta. 30+00.00 ℄ Gates Street
N.2,032,732.949–E.987,620.698
Existing & Proposed P.C. #1 Gates Street
Sta. 30+56.85
N.2,032,732.508–E.987,677.546
Existing & Proposed ℄ Pavement Gates Street Curve #1
P.I. = Sta. 30+88.44
Δ = 35°03'55"
R = 100.00'
T = 31.59'
L = 61.20'
E = 4.87'
P.C. = Sta. 30+56.85
P.T. = Sta. 31+18.05
Existing & Proposed P.I. #1 Gates Street
Sta. 30+88.44
N.2,032,732.262–E.987,709.137
Existing & Proposed P.T. #1 Gates Street
Sta. 31+18.05
N.2,032,713.912–E.987,734.854
Existing P.O.T. Gates Street
Sta. 32+94.98
N.2,032,611.142–E.987,878.879
All Ties are a 5/8" Iron Rod with Corresponding Tie Point Cap (Set)
Tie Dimensions and Bearings are Computed
Nothing Set Due to Hazardous Conditions
(Not to Scale)
WALKUP ROAD
ILLINOIS ROUTE 176
F.A.P. 335
TERRA COTTA AVENUE
BURDENT DRIVE
GATES STREET
F.A.U. 0085
Note: Symbols are not shown on Curve #1 on Gates Street for Clarity Purposes
REVISIONS
NAME | DATE
Added Burdent Dr. & Gates St. | 4/13/11
MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085
ALIGNMENT AND TIES
SCALE: 1"=200'
DRAWN BY: KLK
DATE: July 26, 2010
CHECKED BY: CHJ
JORGENSEN & ASSOCIATES, INC. (847) 356-3371
120 PARK AVENUE LAKE VILLA, ILLINOIS 60046

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	030
STA. 59+91.38		TO STA. 86+71.31		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



Christian H. Jorgensen 7/26/10 PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2010



Existing & Proposed ℄ Pavement Walkup Road Curve #3

P.I.	= Sta. 65+79.82
△	= 2°20'00"
R	= 28894.61'
T	= 588.44'
L	= 1176.71'
E	= 5.99'
P.C.C.	= Sta. 59+91.38
P.T.	= Sta. 71+68.09

Existing & Proposed ℄ Pavement Walkup Road Curve #4

P.I.	= Sta. 73+29.92
△	= 0°21'01"
R	= 22911.30'
T	= 70.02'
L	= 140.05'
E	= 0.11'
P.C.	= Sta. 72+59.90
P.R.C.	= Sta. 73+99.95

Existing & Proposed ℄ Pavement Walkup Road Curve #5

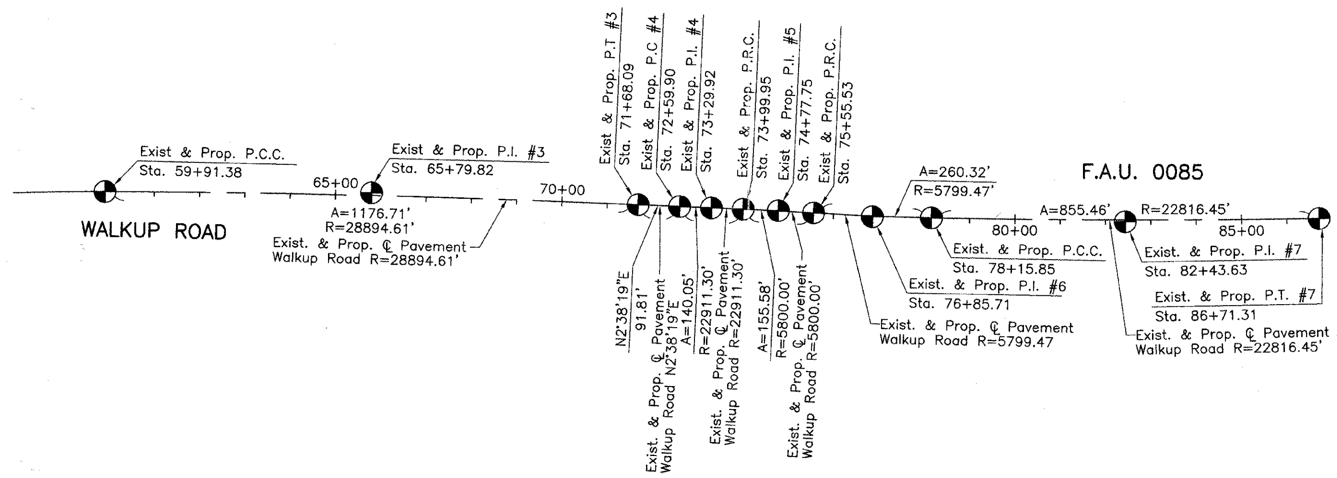
P.I.	= Sta. 74+77.75
△	= 1°32'13"
R	= 5800.00'
T	= 77.80'
L	= 155.58'
E	= 0.52'
P.R.C.	= Sta. 73+99.95
P.R.C.	= Sta. 75+55.53

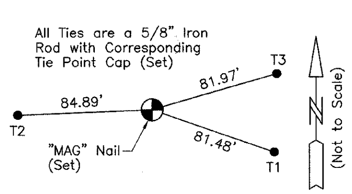
Existing & Proposed ℄ Pavement Walkup Road Curve #6

P.I.	= Sta. 76+85.71
△	= 2°34'19"
R	= 5799.47'
T	= 130.18'
L	= 260.32'
E	= 1.46'
P.R.C.	= Sta. 75+55.53
P.C.C.	= Sta. 78+15.85

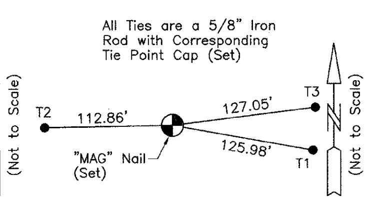
Existing & Proposed ℄ Pavement Walkup Road Curve #7

P.I.	= Sta. 82+43.63
△	= 2°08'54"
R	= 22816.45'
T	= 427.78'
L	= 855.46'
E	= 4.01'
P.C.C.	= Sta. 78+15.85
P.T.	= Sta. 86+71.31

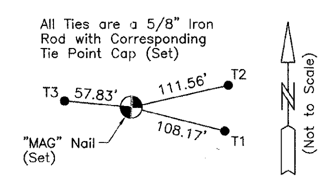




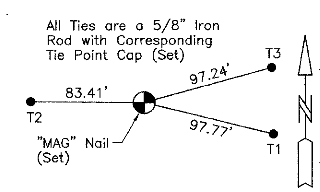
Existing & Proposed P.C. #4
Walkup Road
Sta. 72+59.90
N.2,035,313.252–E.987,655.924



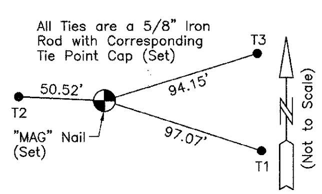
Existing & Proposed P.I. #4
Walkup Road
Sta. 73+29.92
N.2,035,383.205–E.987,659.147



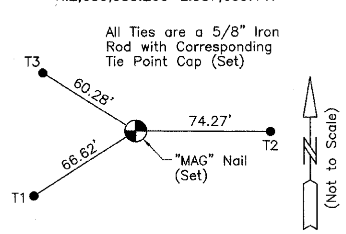
Existing & Proposed P.R.C.
Walkup Road
Sta. 73+99.95
N.2,035,453.171–E.987,661.943



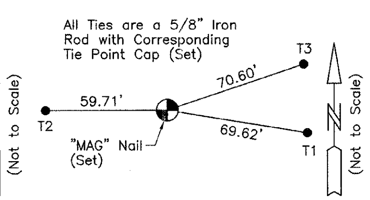
Existing & Proposed P.I. #5
Walkup Road
Sta. 74+77.75
N.2,035,530.904–E.987,665.050



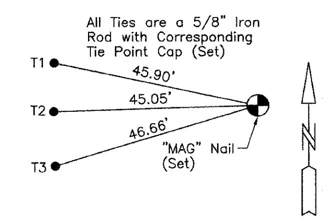
Existing & Proposed P.R.C.
Walkup Road
Sta. 75+55.53
N.2,035,608.527–E.987,670.240



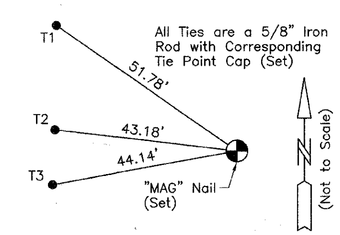
Existing & Proposed P.I. #6
Walkup Road
Sta. 76+85.71
N.2,035,738.419–E.987,678.925



Existing & Proposed P.C.C.
Walkup Road
Sta. 78+15.85
N.2,035,868.571–E.987,681.773



Existing & Proposed P.I. #7
Walkup Road
Sta. 82+43.63
N.2,036,296.246–E.987,691.131



Existing & Proposed P.T. #7
Walkup Road
Sta. 86+71.31
N.2,036,723.971–E.987,684.452

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

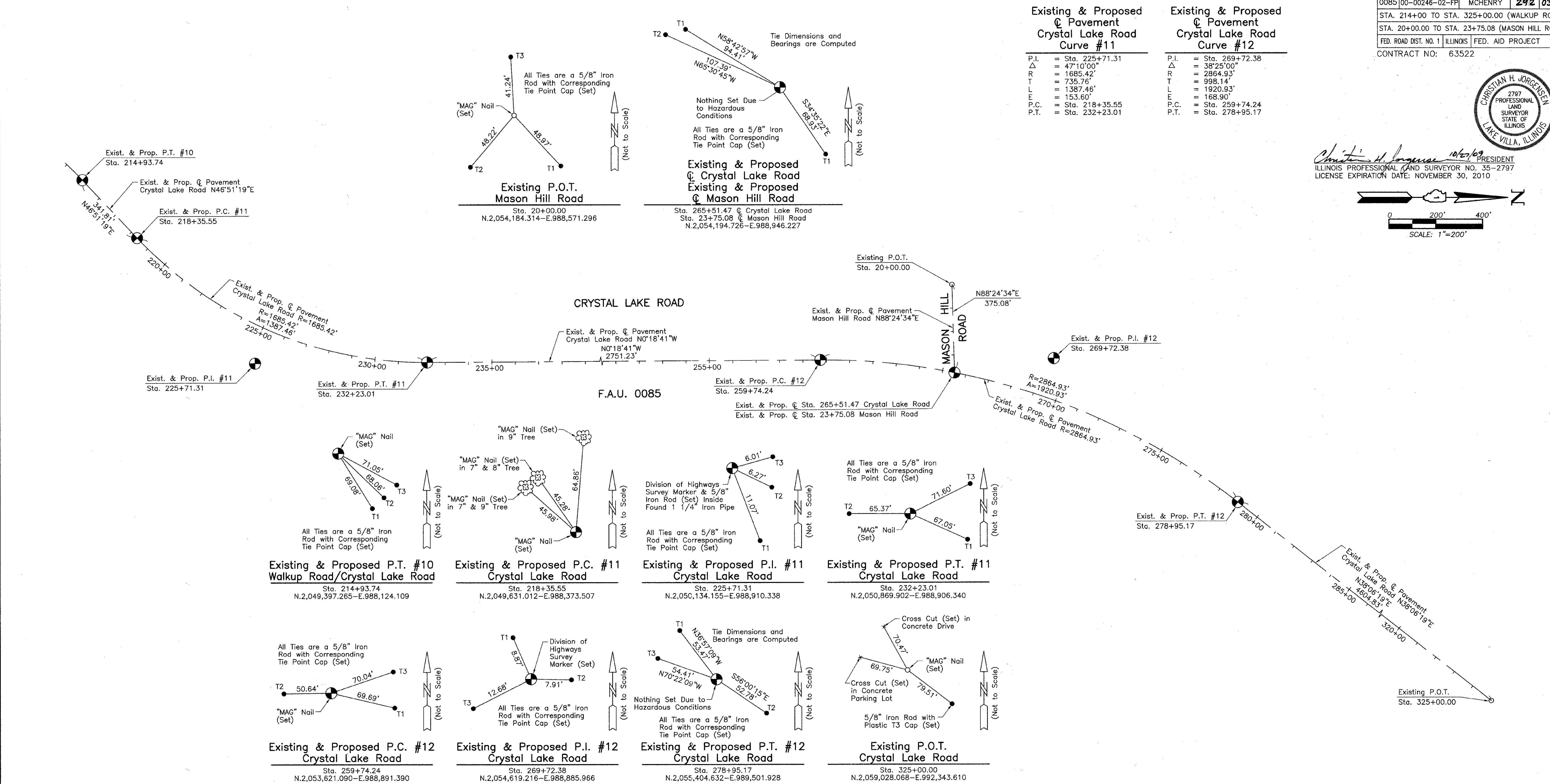
ALIGNMENT AND TIES

SCALE: 1"=200' DRAWN BY: KLK
DATE: July 26, 2010 CHECKED BY: CHJ

JORGENSEN & ASSOCIATES, INC. 120 PARK AVENUE
(847) 356-3371 LAKE VILLA, ILLINOIS 60046

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	030A

STA. 214+00 TO STA. 325+00.00 (WALKUP ROAD)
STA. 20+00.00 TO STA. 23+75.08 (MASON HILL ROAD)
FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT
CONTRACT NO: 63522



REVISIONS	
NAME	DATE
Added Mason Hill Rd.	4/13/11

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

ALIGNMENT AND TIES

SCALE: 1"=200' DRAWN BY: KLK
DATE: October 27, 2009 CHECKED BY: CHJ

JORGENSEN & ASSOCIATES, INC. (847) 356-3371
120 PARK AVENUE LAKE VILLA, ILLINOIS 60046

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	031
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

BENCHMARKS AND DESCRIPTIONS

SOUTH SECTION

TBM "101" ELEV. 922.31
TOP OF NORTHEAST FLANGE BOLT OF FIRE HYDRANT LOCATED AT THE NORTHWEST CORNER OF WALKUP ROAD AND TERRA COTTA AVENUE NEAR STA. 50+45.

TBM "I" ELEV. 917.341
TOP OF IRON PIPE WITH YELLOW PLASTIC CAP LOCATED ON THE SHOULDER AT THE EAST SIDE OF WALKUP ROAD & PARKVIEW CT. NEAR STA. 59+07.

TBM "K" ELEV. 928.06
TOP OF SOUTHEAST FLANGE BOLT OF FIRE HYDRANT LOCATED AT THE CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS NEAR STA. 72+30.

NORTH SECTION

TBM "50" ELEV. 843.30
TOP OF PK NAIL IN THE WEST FACE OF POWER POLE LOCATED ON EAST SIDE OF WALKUP ROAD +/-150 FEET NORTH OF ANVIL DRIVE NEAR STA. 230+00.

TBM "53" ELEV. 844.54
TOP OF PK NAIL IN THE EAST FACE OF POWER POLE LOCATED ON WEST SIDE OF WALKUP ROAD +/-460 FEET SOUTH OF RAINTREE DRIVE NEAR STA. 244+60.

TBM "54" ELEV. 844.587
PK NAIL IN THE ASPHALT PAVEMENT AT THE INTERSECTION OF PINE TREE DR. & CRYSTAL LAKE RD. LOCATED 37' N. OF CENTERLINE OF PINE TREE RD. AND 23' W. OF CENTERLINE OF CRYSTAL LAKE RD. NEAR STA. 249+00.

TBM "55" ELEV. 835.18
TOP OF PK NAIL IN THE WHITE WOOD FENCE POST LOCATED ON WEST SIDE OF CRYSTAL LAKE RD. +/-565 FEET SOUTH OF CENTERLINE OF MASON HILL RD. NEAR STA. 259+75.

TBM "57" ELEV. 807.89
TOP OF PK NAIL IN THE WEST FACE OF POWER POLE LOCATED ON EAST SIDE OF CRYSTAL LAKE RD. +/-260 FEET NORTH OF CENTERLINE OF MASON HILL RD. NEAR STA. 268+35.

TBM "59" ELEV. 822.17
TOP OF PK NAIL IN THE WEST FACE OF POWER POLE LOCATED ON EAST SIDE OF CRYSTAL LAKE RD. NEAR STA. 278+50.

TBM "CP35" ELEV. 809.98
PK NAIL IN THE ASPHALT DRIVEWAY LOCATED ON THE SE SIDE OF CRYSTAL LAKE RD. +/-1,350 FEET SW OF CENTERLINE OF CUNAT DRIVE, NEAR STA. 290+65.

TBM "63" ELEV. 797.16
TOP OF PK NAIL IN NW FACE OF POWER POLE LOCATED ON SE SIDE OF CRYSTAL LAKE RD. +/-215 FEET NE OF CENTERLINE OF CUNAT DRIVE, NEAR STA. 306+35.

TBM "100" ELEV. 796.38
TOP OF R.R. SPIKE IN THE WEST FACE OF POWER POLE ON THE EASTERLY SIDE OF WALKUP ROAD. 4-TH POWER POLE SOUTHERLY FROM CUNAT DRIVE NEAR STA. 310+20.

REVISIONS	
NAME	DATE

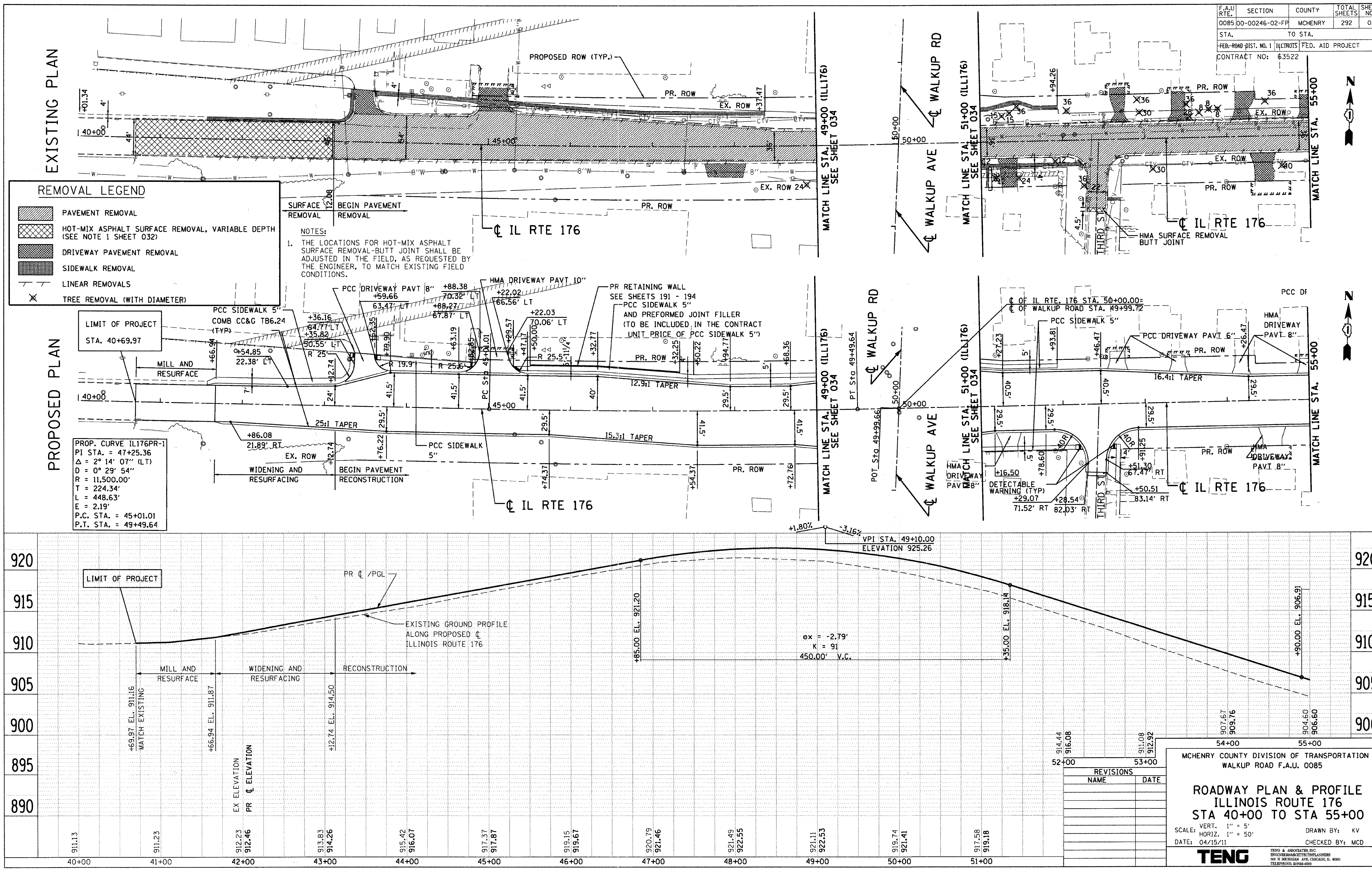
MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

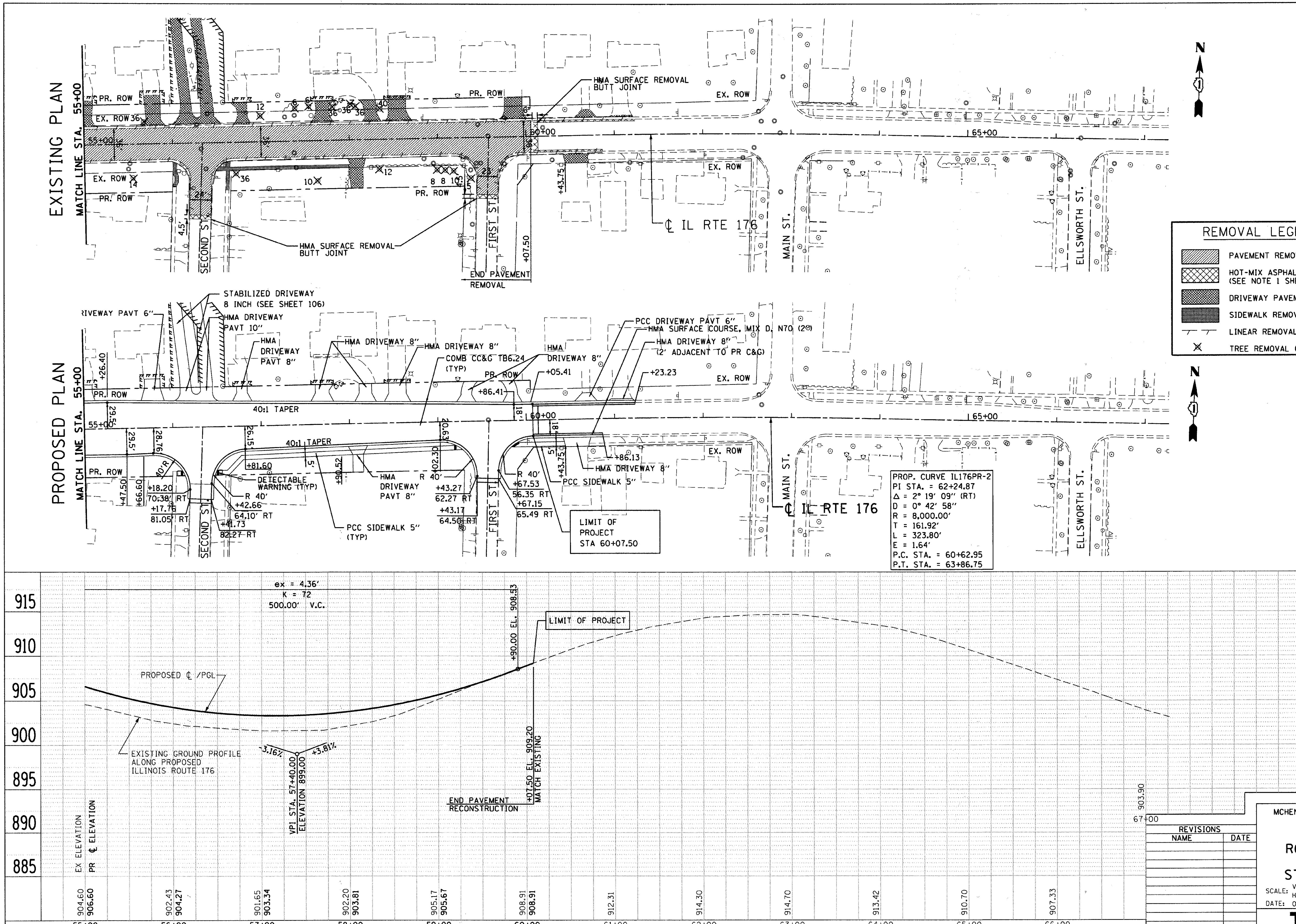
BENCHMARKS & DESCRIPTIONS

SCALE: N.T.S. DRAWN BY: MZD
DATE: 04/15/11 CHECKED BY: MCD

TENG
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS 205 N. MICHIGAN AVE. CHICAGO, IL 60601

..\BD991A00I.DGN 4-4-2011 15:07:35 \\FS-0044\AM\VAULT\D-TRANS_07\2202\3100-03\CIVIL\CAD\02 CONTRACT\A TENG\SHEET\AL021A004.SHT STANKERJ


F.A.U RTE. 0085
SECTION 00-00246-02-FP
COUNTY MCHENRY
TOTAL SHEETS 292
SHEET NO. 032
STA. TO STA.
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT
CONTRACT NO: 63522
EXISTING PLAN
PROPOSED PLAN
REMOVAL LEGEND
PAVEMENT REMOVAL
HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (SEE NOTE 1 SHEET 032)
DRIVEWAY PAVEMENT REMOVAL
SIDEWALK REMOVAL
LINEAR REMOVALS
TREE REMOVAL (WITH DIAMETER)
NOTES:
1. THE LOCATIONS FOR HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT SHALL BE ADJUSTED IN THE FIELD, AS REQUESTED BY THE ENGINEER, TO MATCH EXISTING FIELD CONDITIONS.
SURFACE REMOVAL
BEGIN PAVEMENT REMOVAL
PROPOSED ROW (TYP.)
PR. ROW
EX. ROW
℄ IL RTE 176
MATCH LINE STA. 49+00 (ILL176) SEE SHEET 034
MATCH LINE STA. 51+00 (ILL176) SEE SHEET 034
MATCH LINE STA. 55+00
℄ WALKUP RD
℄ WALKUP AVE
THIRD ST
HMA SURFACE REMOVAL BUTT JOINT
LIMIT OF PROJECT STA. 40+69.97
MILL AND RESURFACE
WIDENING AND RESURFACING
BEGIN PAVEMENT RECONSTRUCTION
PCC SIDEWALK 5" COMB CC&G TB6.24 (TYP)
PCC DRIVEWAY PAVT 8"
HMA DRIVEWAY PAVT 10"
PR RETAINING WALL SEE SHEETS 191 - 194
PCC SIDEWALK 5" AND PREFORMED JOINT FILLER (TO BE INCLUDED IN THE CONTRACT UNIT PRICE OF PCC SIDEWALK 5")
25:1 TAPER
15.3:1 TAPER
12.9:1 TAPER
16.4:1 TAPER
PCC SIDEWALK 5"
℄ OF IL RTE. 176 STA. 50+00.00= ℄ OF WALKUP ROAD STA. 49+99.72
PCC DRIVEWAY PAVT 6"
HMA DRIVEWAY PAVT 8"
DETECTABLE WARNING (TYP)
PT Sta 49+49.64
POT Sta 49+99.66
PROP. CURVE IL176PR-1
PI STA. = 47+25.36
Δ = 2° 14' 07" (LT)
D = 0° 29' 54"
R = 11,500.00'
T = 224.34'
L = 448.63'
E = 2.19'
P.C. STA. = 45+01.01
P.T. STA. = 49+49.64
LIMIT OF PROJECT
PR ℄ /PGL
EXISTING GROUND PROFILE ALONG PROPOSED ℄ ILLINOIS ROUTE 176
VPI STA. 49+10.00 ELEVATION 925.26
+1.80%
-3.16%
ex = -2.79'
K = 91
450.00' V.C.
+69.97 EL. 911.16 MATCH EXISTING
+66.94 EL. 911.87
+12.74 EL. 914.50
+85.00 EL. 921.20
+35.00 EL. 918.14
+90.00 EL. 906.91
MILL AND RESURFACE
WIDENING AND RESURFACING
RECONSTRUCTION
EX ELEVATION
PR ℄ ELEVATION
MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085
REVISIONS
NAME
DATE
ROADWAY PLAN & PROFILE
ILLINOIS ROUTE 176
STA 40+00 TO STA 55+00
SCALE: VERT. 1" = 5' HORIZ. 1" = 50'
DATE: 04/15/11
DRAWN BY: KV
CHECKED BY: MCD
TENG
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS



F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	033
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

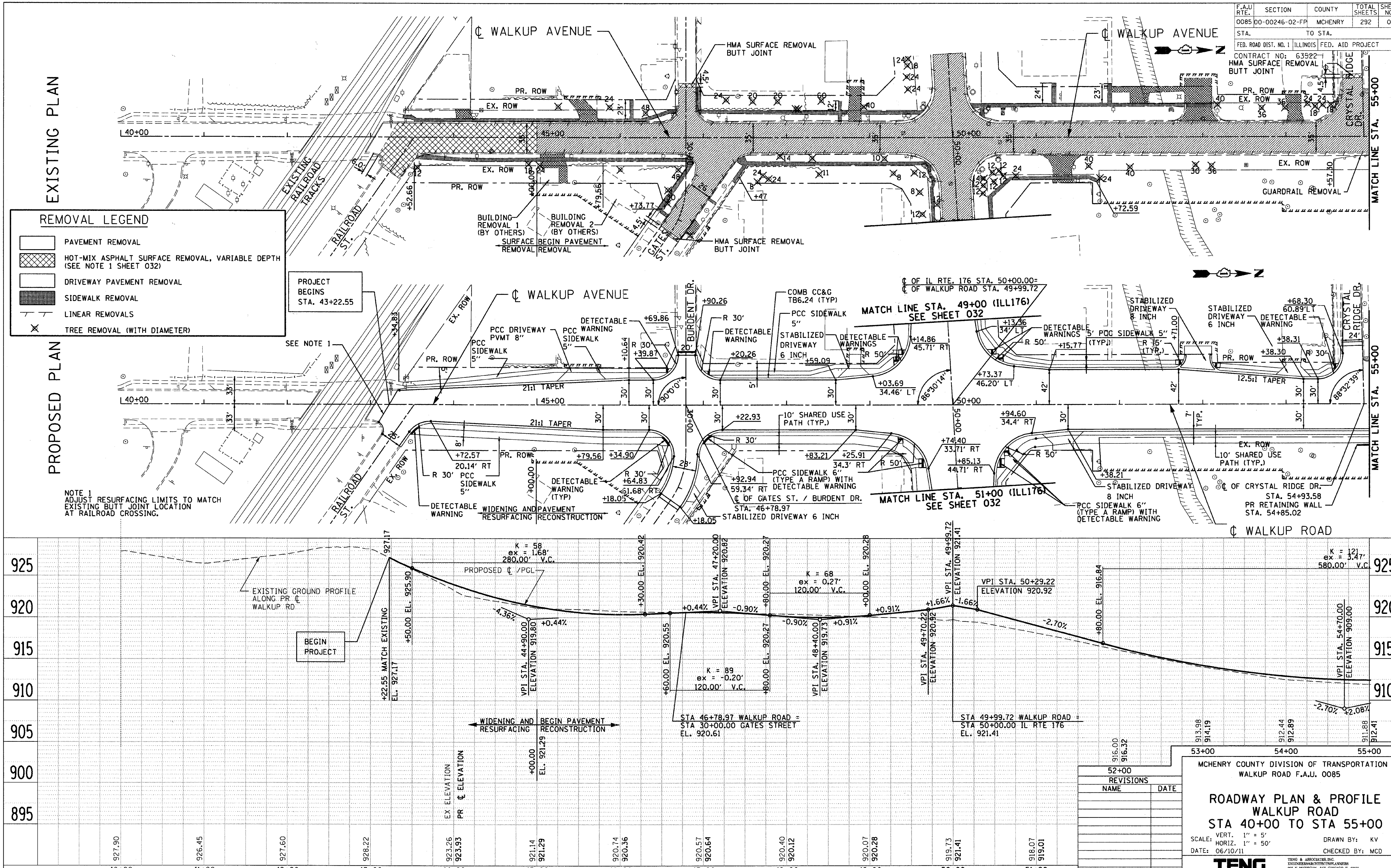
ROADWAY PLAN & PROFILE
ILLINOIS ROUTE 176
STA 55+00 TO STA 70+00

SCALE: VERT. 1" = 5' HORIZ. 1" = 50'
DATE: 04/15/11
DRAWN BY: KV
CHECKED BY: MCD

TENG
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	034
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



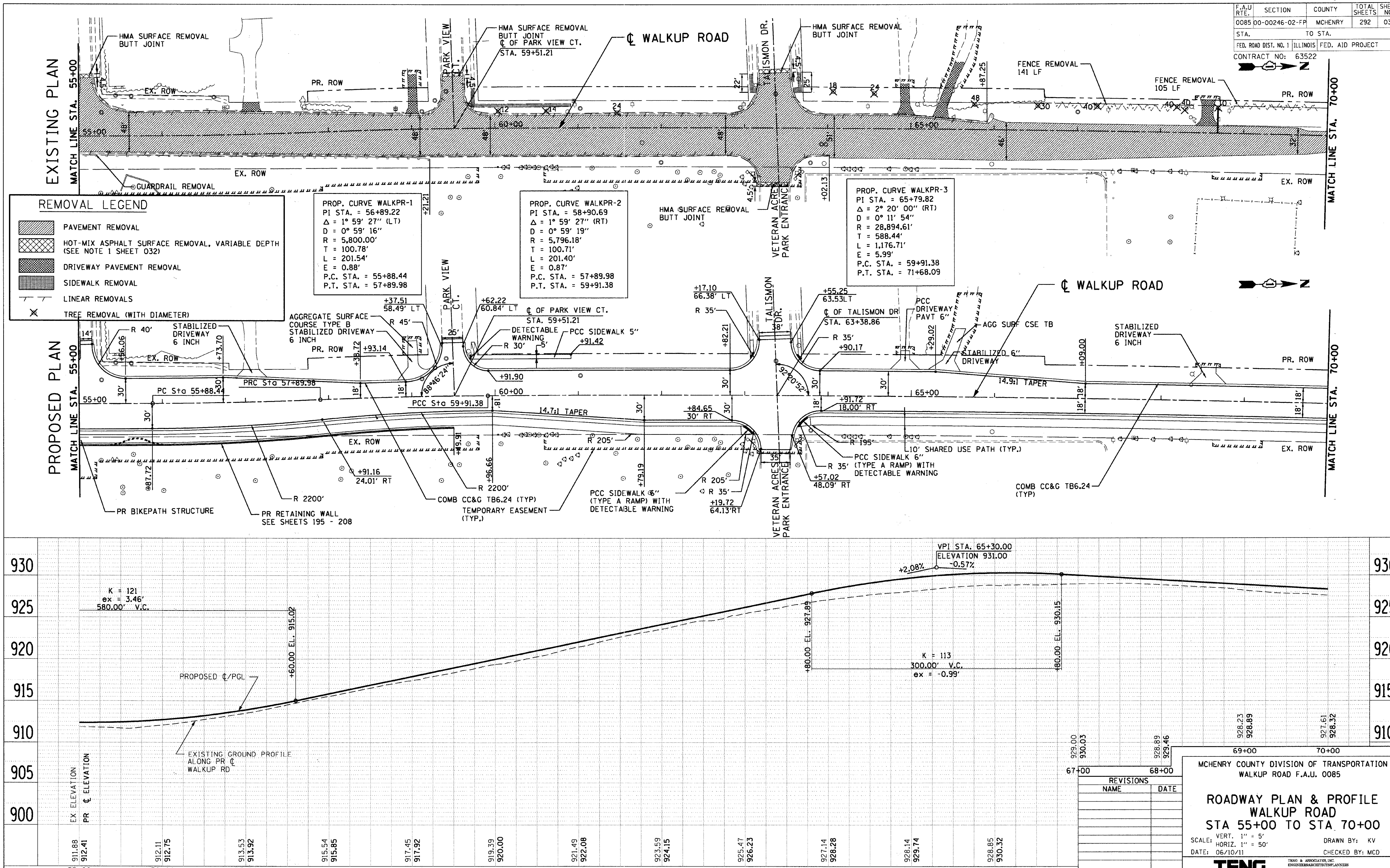
MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

REVISIONS	
NAME	DATE

ROADWAY PLAN & PROFILE
WALKUP ROAD
STA 40+00 TO STA 55+00

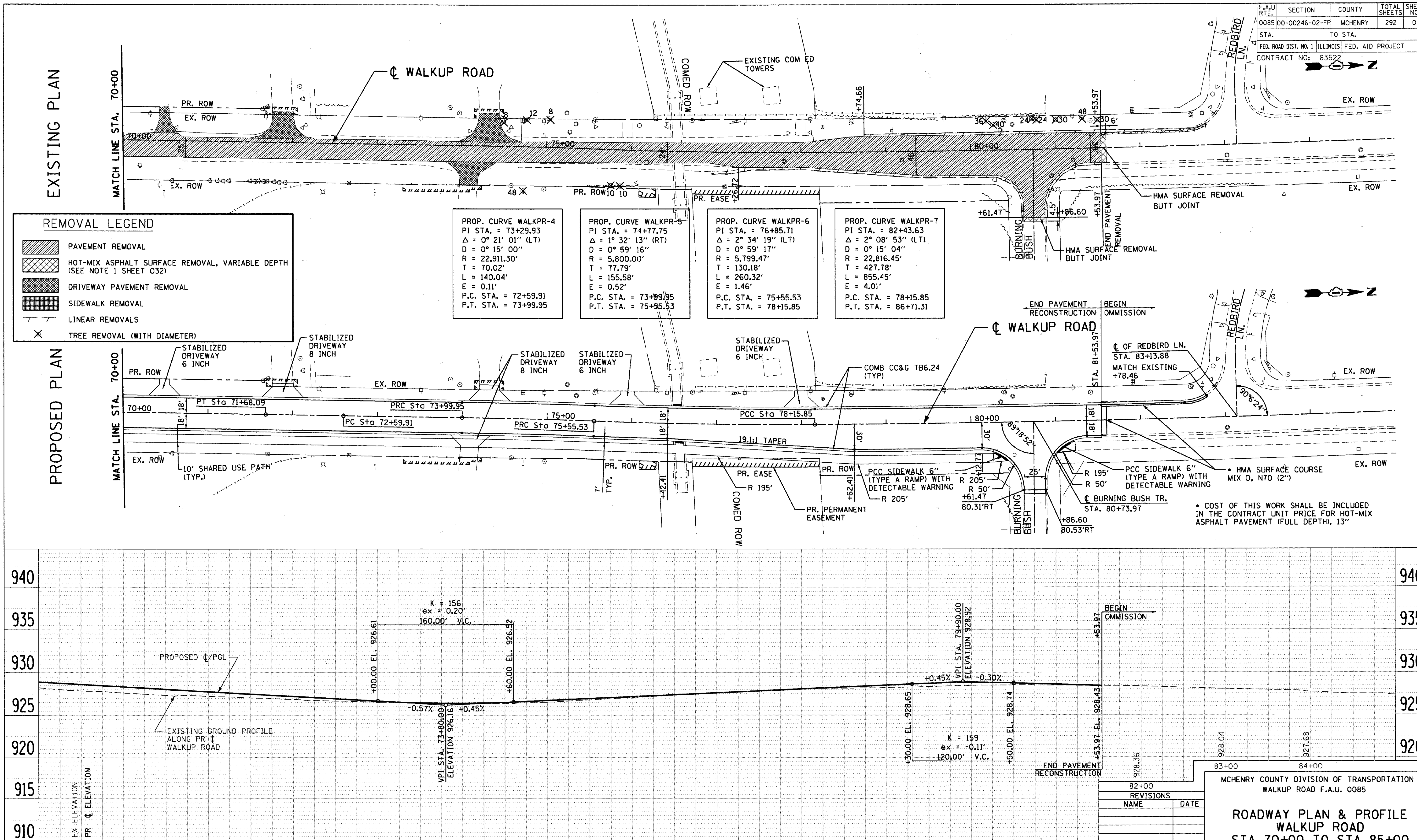
SCALE: VERT. 1" = 5' HORIZ. 1" = 50'
DATE: 06/10/11
DRAWN BY: KV
CHECKED BY: MCD

TENG
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS 205 N. MICHIGAN AVE. CHICAGO, IL 60601


F.A.U RTE. 0085
SECTION 00-00246-02-FP
COUNTY MCHENRY
TOTAL SHEETS 292
SHEET NO. 035
STA. TO STA.
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT
CONTRACT NO: 63522
EXISTING PLAN
PROPOSED PLAN
MATCH LINE STA. 55+00
MATCH LINE STA. 70+00
℄ WALKUP ROAD
HMA SURFACE REMOVAL BUTT JOINT
HMA SURFACE REMOVAL BUTT JOINT ℄ OF PARK VIEW CT. STA. 59+51.21
FENCE REMOVAL 141 LF
FENCE REMOVAL 105 LF
GUARDRAIL REMOVAL
PR. ROW
EX. ROW
PARK VIEW CT.
TALISMON DR.
VETERAN ACRES PARK ENTRANCE
REMOVAL LEGEND
PAVEMENT REMOVAL
HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (SEE NOTE 1 SHEET 032)
DRIVEWAY PAVEMENT REMOVAL
SIDEWALK REMOVAL
LINEAR REMOVALS
TREE REMOVAL (WITH DIAMETER)
PROP. CURVE WALKPR-1
PI STA. = 56+89.22
Δ = 1° 59' 27" (LT)
D = 0° 59' 16"
R = 5,800.00'
T = 100.78'
L = 201.54'
E = 0.88'
P.C. STA. = 55+88.44
P.T. STA. = 57+89.98
PROP. CURVE WALKPR-2
PI STA. = 58+90.69
Δ = 1° 59' 27" (RT)
D = 0° 59' 19"
R = 5,796.18'
T = 100.71'
L = 201.40'
E = 0.87'
P.C. STA. = 57+89.98
P.T. STA. = 59+91.38
PROP. CURVE WALKPR-3
PI STA. = 65+79.82
Δ = 2° 20' 00" (RT)
D = 0° 11' 54"
R = 28,894.61'
T = 588.44'
L = 1,176.71'
E = 5.99'
P.C. STA. = 59+91.38
P.T. STA. = 71+68.09
AGGREGATE SURFACE COURSE TYPE B
STABILIZED DRIVEWAY 6 INCH
DETECTABLE WARNING
PCC SIDEWALK 5"
℄ OF PARK VIEW CT. STA. 59+51.21
℄ OF TALISMON DR STA. 63+38.86
PCC DRIVEWAY PAVT 6"
AGG SURF CSE TB
STABILIZED 6" DRIVEWAY
14.9:1 TAPER
14.7:1 TAPER
PC Sta 55+88.44
PRC Sta 57+89.98
PCC Sta 59+91.38
10' SHARED USE PATH (TYP.)
PCC SIDEWALK 6" (TYPE A RAMP) WITH DETECTABLE WARNING
COMB CC&G TB6.24 (TYP)
PR BIKEPATH STRUCTURE
PR RETAINING WALL SEE SHEETS 195 - 208
TEMPORARY EASEMENT (TYP.)
R 2200'
VPI STA. 65+30.00
ELEVATION 931.00
+2.08%
-0.57%
K = 121
ex = 3.46'
580.00' V.C.
+60.00 EL. 915.02
+80.00 EL. 927.89
+80.00 EL. 930.15
K = 113
300.00' V.C.
ex = -0.99'
PROPOSED ℄/PGL
EXISTING GROUND PROFILE ALONG PR ℄ WALKUP RD
EX ELEVATION
PR ℄ ELEVATION
930
925
920
915
910
905
900
55+00
56+00
57+00
58+00
59+00
60+00
61+00
62+00
63+00
64+00
65+00
66+00
67+00
68+00
69+00
70+00
REVISIONS
NAME
DATE
MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085
ROADWAY PLAN & PROFILE
WALKUP ROAD
STA 55+00 TO STA 70+00
SCALE: VERT. 1" = 5' HORIZ. 1" = 50'
DATE: 06/10/11
DRAWN BY: KV
CHECKED BY: MCD
TENG

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	036
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



Station	EX Elevation	PR ℄ Elevation
70+00	927.61	928.32
71+00	927.23	927.75
72+00	926.83	927.18
73+00	926.50	926.61
74+00	926.32	926.36
75+00	926.51	926.70
76+00	927.06	927.16
77+00	927.58	927.61
78+00	928.07	928.06
79+00	928.21	928.51
80+00	928.46	928.81
81+00	928.48	928.59
82+00	928.36	
83+00	928.04	
84+00	927.68	

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

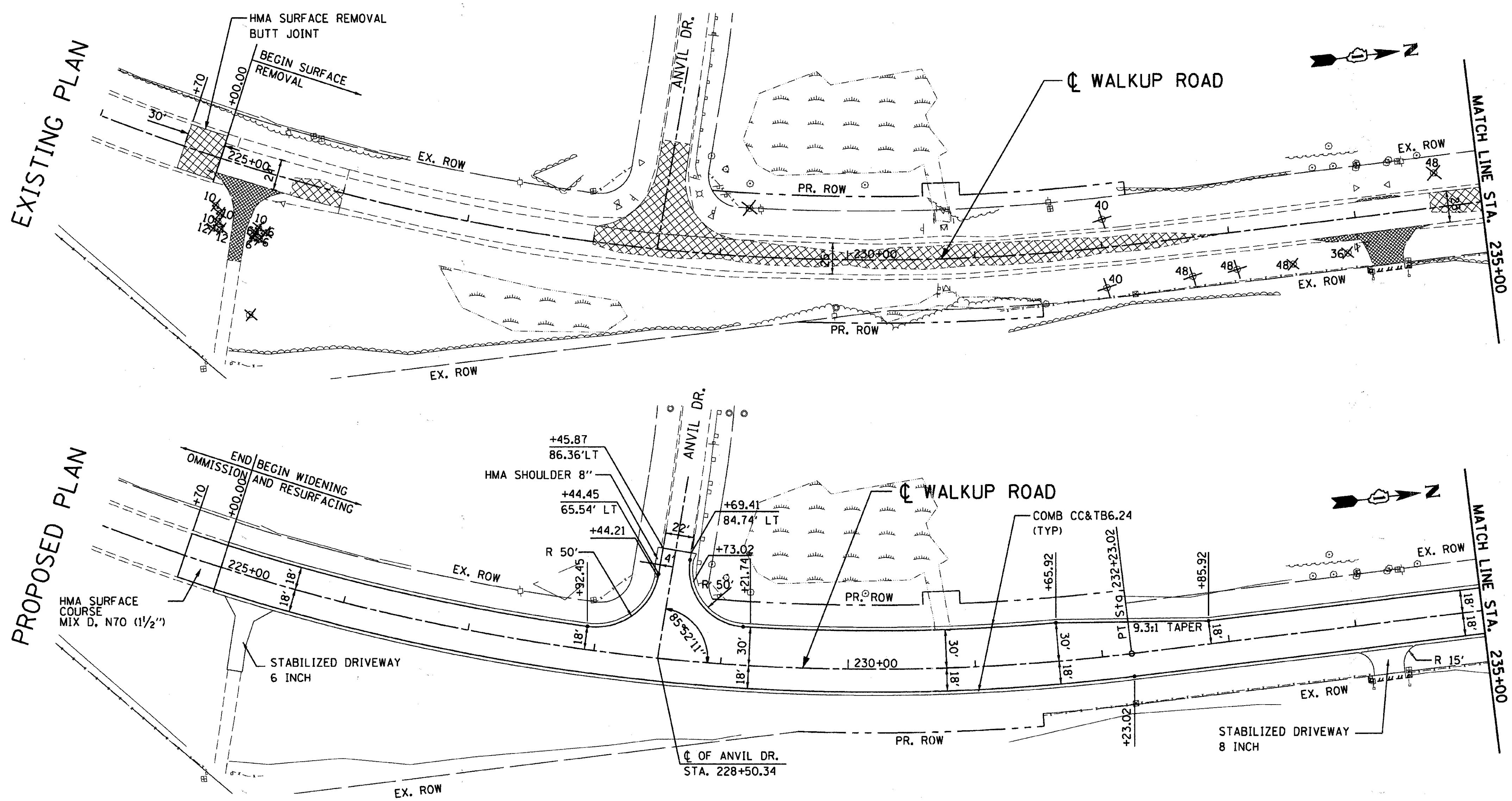
ROADWAY PLAN & PROFILE WALKUP ROAD STA 70+00 TO STA 85+00

SCALE: VERT. 1″ = 5′ HORIZ. 1″ = 50′
DRAWN BY: KV
DATE: 04/15/11
CHECKED BY: MCD

TENG
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS 205 N. MICHIGAN AVE. CHICAGO, IL 60601

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	037
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



NOTES:

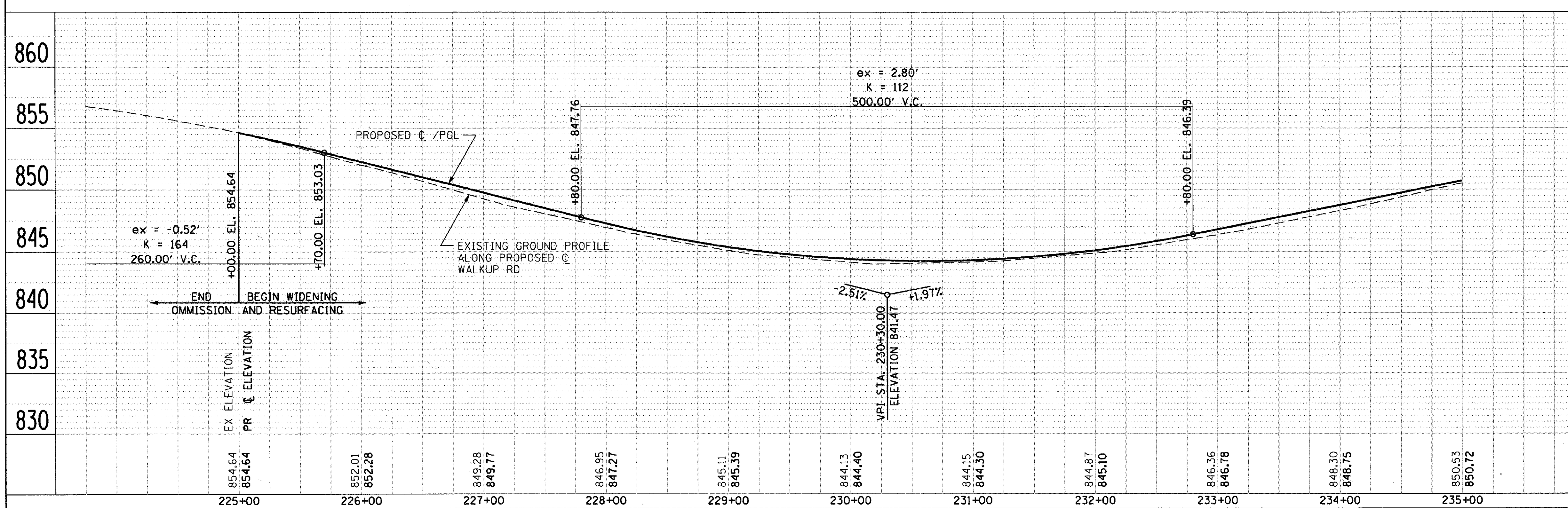
1. HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH AREAS SHOWN ON THE PLANS INDICATE AREAS WHEN MILLING IS REQUIRED TO ACHIEVE A MINIMUM 2¼" BINDER AND 1½" SURFACE LIFT OVER THE EXISTING PAVEMENT AREA. ACTUAL MILLING LOCATIONS TO BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER.

REMOVAL LEGEND

- PAVEMENT REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (SEE NOTE 1 SHEET 037)
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- LINEAR REMOVALS
- TREE REMOVAL (WITH DIAMETER)

PROP. CURVE WALKPR-11
PI STA. = 225+71.31
Δ = 47° 10' 00" (LT)
D = 3° 23' 58"
R = 1,685.42'
T = 735.76'
L = 1,387.46'
E = 153.60'
P.C. STA. = 218+35.55
P.T. STA. = 232+23.02

S.E. = 3.2%
TRANSITION
STA 218+66.00 TO STA 231+93.00 F.S.
STA 231+93.00 TO STA 233+38.00 N.C.



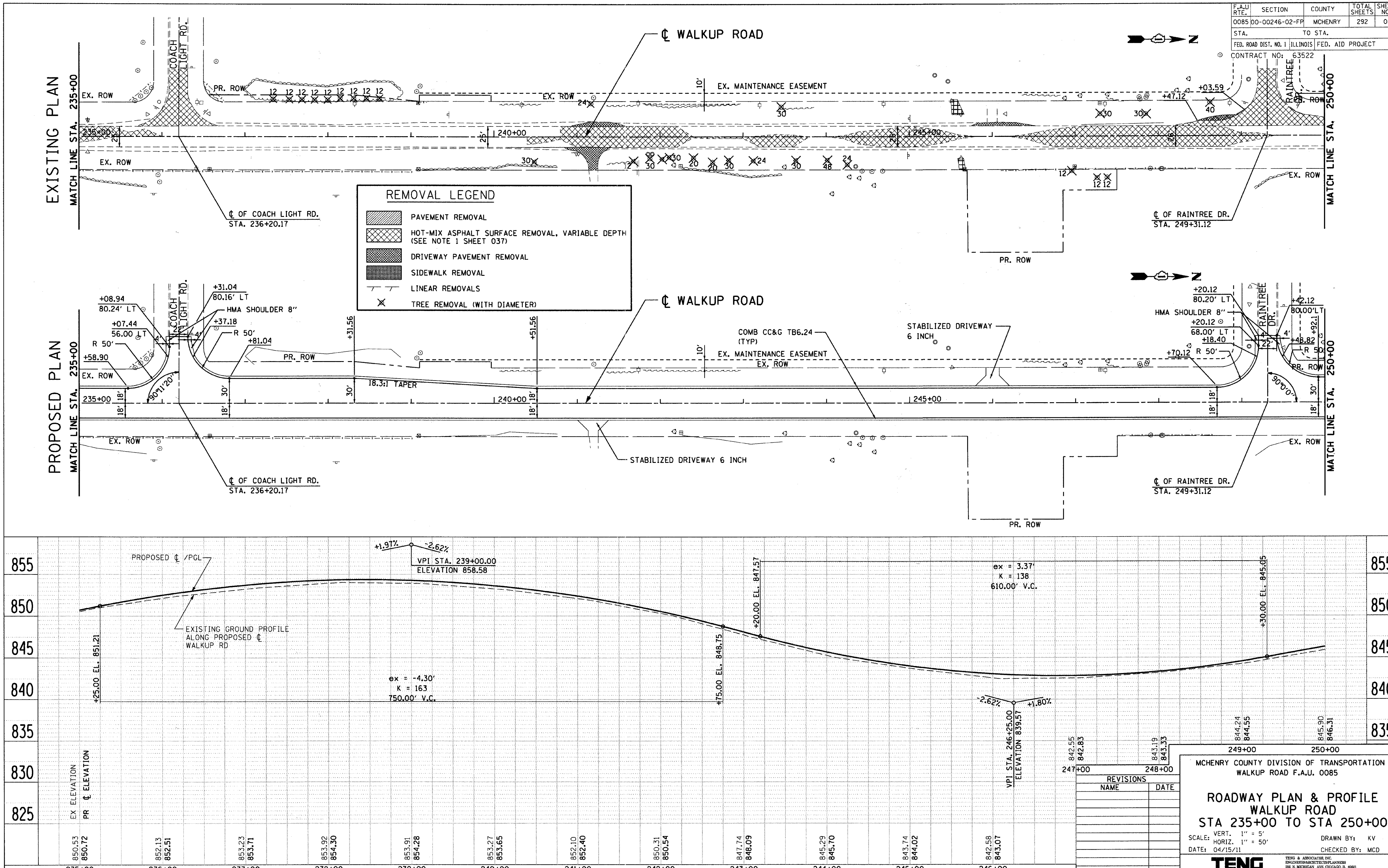
REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

ROADWAY PLAN & PROFILE
WALKUP ROAD
STA 225+00 TO STA 235+00

SCALE: VERT. 1" = 5' HORIZ. 1" = 50'
DRAWN BY: KV
DATE: 04/15/11
CHECKED BY: MCD

TENG
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS 205 N. MICHIGAN AVE. CHICAGO, IL 60601



F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	038
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

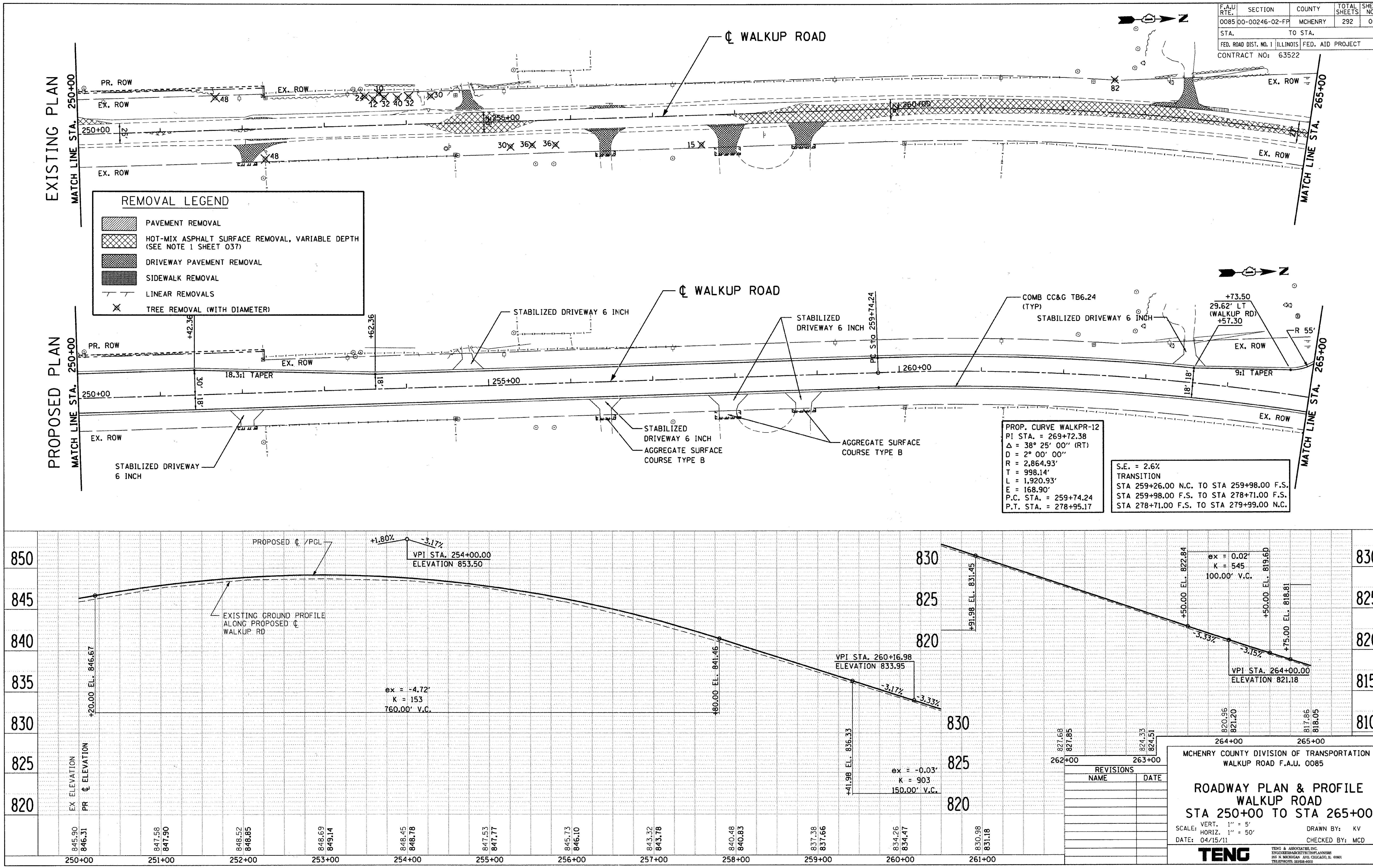
MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

ROADWAY PLAN & PROFILE
WALKUP ROAD
STA 235+00 TO STA 250+00

SCALE: VERT. 1" = 5' HORIZ. 1" = 50'
DATE: 04/15/11
DRAWN BY: KV
CHECKED BY: MCD

REVISIONS	
NAME	DATE

TENG
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS



STATION	EX ELEVATION	PR ℄ ELEVATION
250+00	845.90	846.31
251+00	847.58	847.90
252+00	848.52	848.85
253+00	848.69	849.14
254+00	848.45	848.78
255+00	847.53	847.77
256+00	845.73	846.10
257+00	843.32	843.78
258+00	840.48	840.83
259+00	837.38	837.66
260+00	834.26	834.47
261+00	830.98	831.18
262+00	827.68	827.85
263+00	824.33	824.51
264+00	820.96	821.20
265+00	817.86	818.05

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	039
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

ROADWAY PLAN & PROFILE WALKUP ROAD STA 250+00 TO STA 265+00

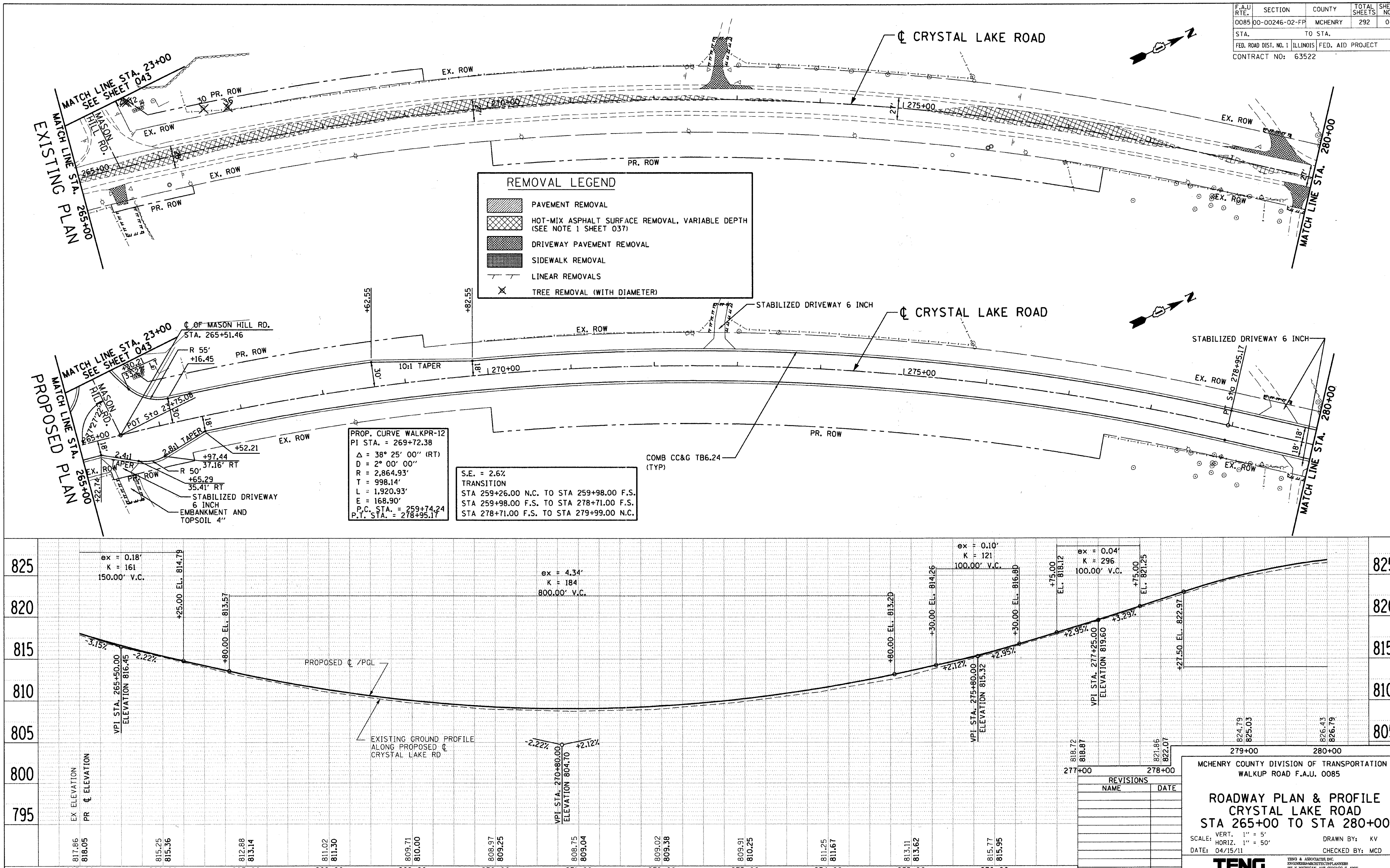
REVISIONS	
NAME	DATE

SCALE: VERT. 1" = 5' HORIZ. 1" = 50'
DATE: 04/15/11
DRAWN BY: KV
CHECKED BY: MCD

TENG
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS 205 N. MICHIGAN AVE. CHICAGO, IL 60601

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	040
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



REMOVAL LEGEND

- PAVEMENT REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (SEE NOTE 1 SHEET 037)
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- LINEAR REMOVALS
- TREE REMOVAL (WITH DIAMETER)

PROP. CURVE WALKPR-12
PI STA. = 269+72.38
Δ = 38° 25' 00" (RT)
D = 2° 00' 00"
R = 2,864.93'
T = 998.14'
L = 1,920.93'
E = 168.90'
P.C. STA. = 259+74.24
P.T. STA. = 278+95.17

S.E. = 2.6%
TRANSITION
STA 259+26.00 N.C. TO STA 259+98.00 F.S.
STA 259+98.00 F.S. TO STA 278+71.00 F.S.
STA 278+71.00 F.S. TO STA 279+99.00 N.C.

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

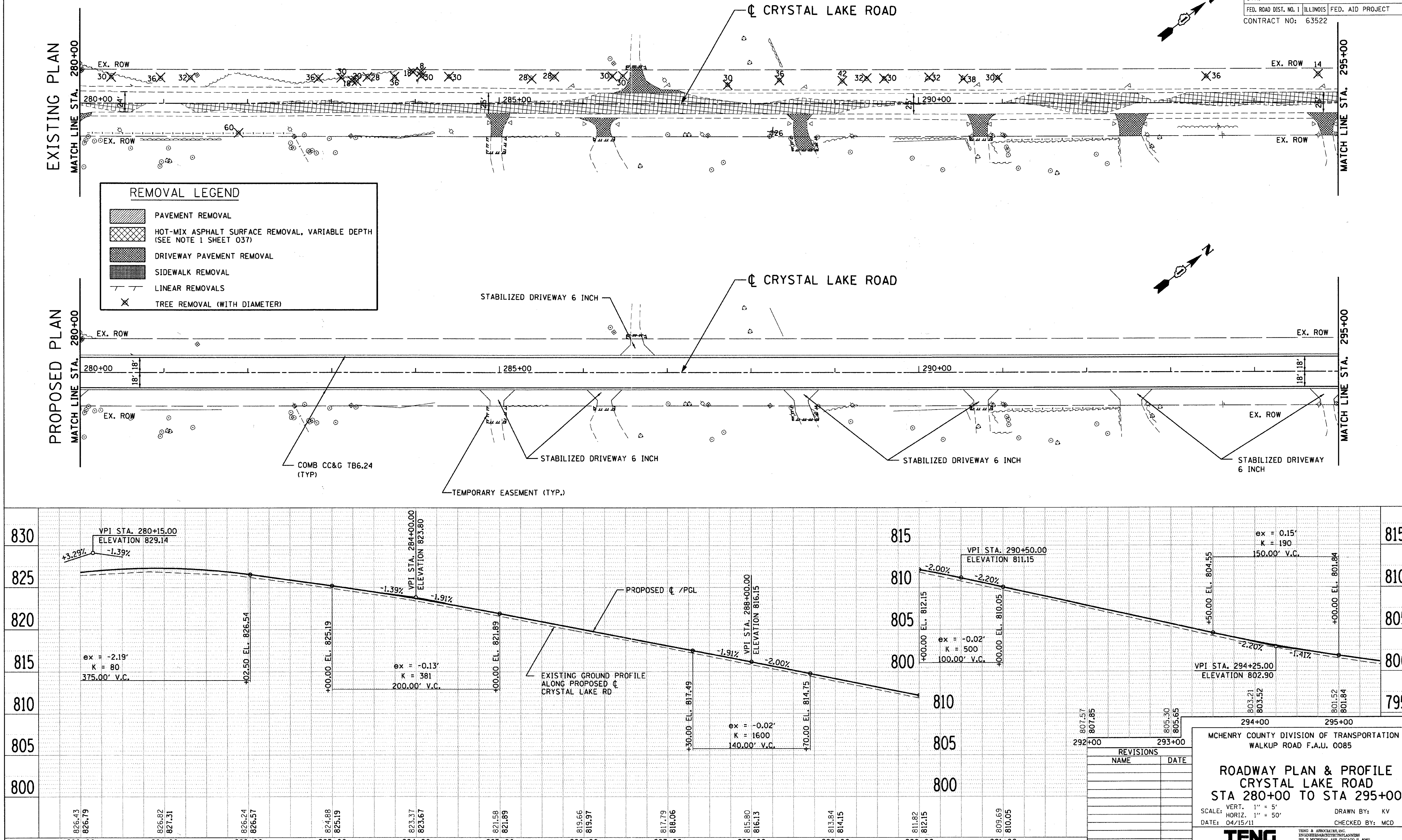
ROADWAY PLAN & PROFILE CRYSTAL LAKE ROAD STA 265+00 TO STA 280+00

SCALE: VERT. 1" = 5' HORIZ. 1" = 50'
DATE: 04/15/11
DRAWN BY: KV
CHECKED BY: MCD

TENG
TENG & ASSOCIATES, INC.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	041
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



REMOVAL LEGEND

- PAVEMENT REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (SEE NOTE 1 SHEET 037)
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- LINEAR REMOVALS
- TREE REMOVAL (WITH DIAMETER)

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

ROADWAY PLAN & PROFILE CRYSTAL LAKE ROAD STA 280+00 TO STA 295+00

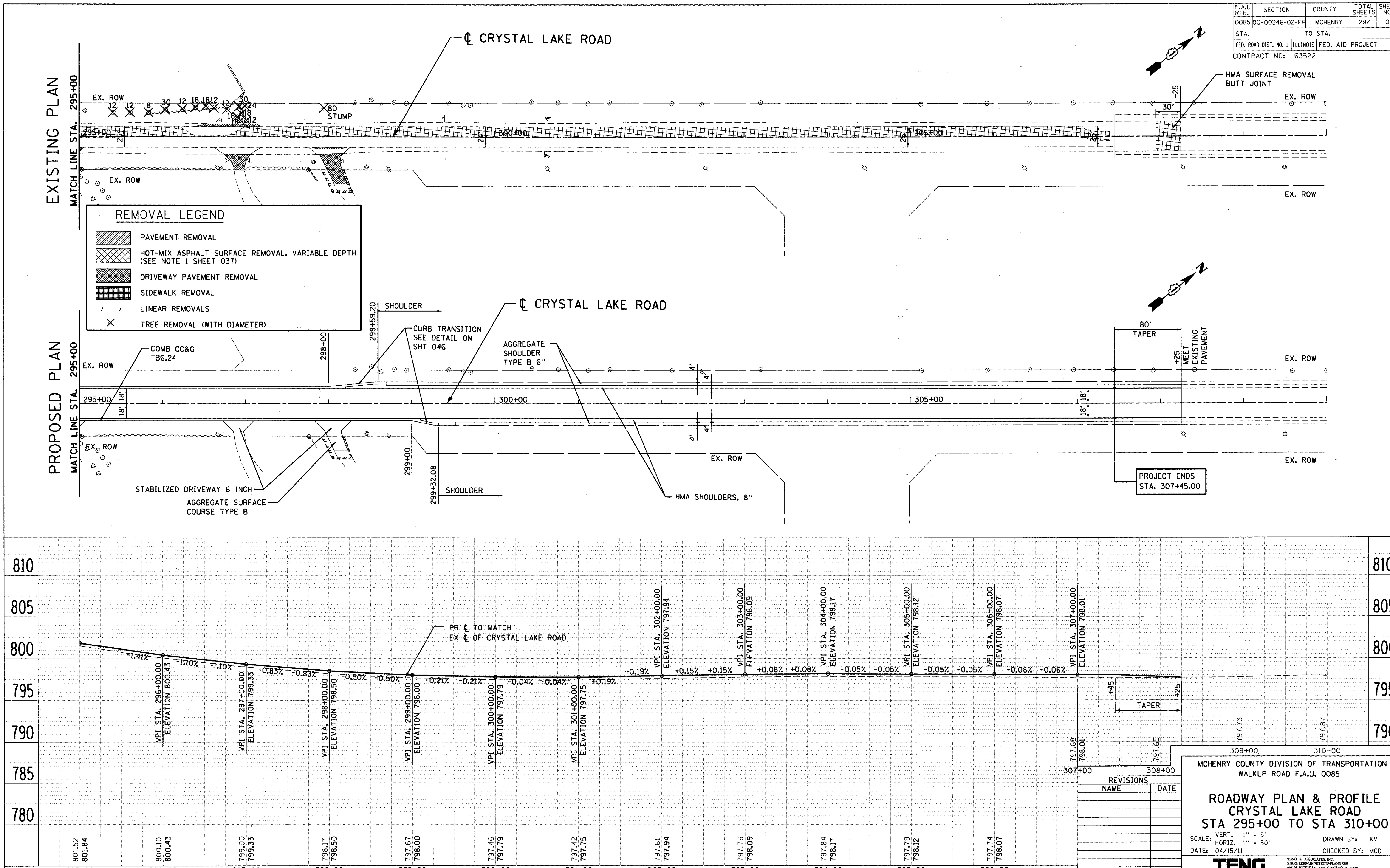
SCALE: VERT. 1" = 5' HORIZ. 1" = 50'
DATE: 04/15/11
DRAWN BY: KV
CHECKED BY: MCD

REVISIONS	
NAME	DATE

TENG
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS 205 N. MICHIGAN AVE. CHICAGO, IL 60601

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	042
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



REVISIONS

NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

ROADWAY PLAN & PROFILE CRYSTAL LAKE ROAD STA 295+00 TO STA 310+00

SCALE: VERT. 1" = 5' HORIZ. 1" = 50'
DATE: 04/15/11
DRAWN BY: KV
CHECKED BY: MCD

TENG
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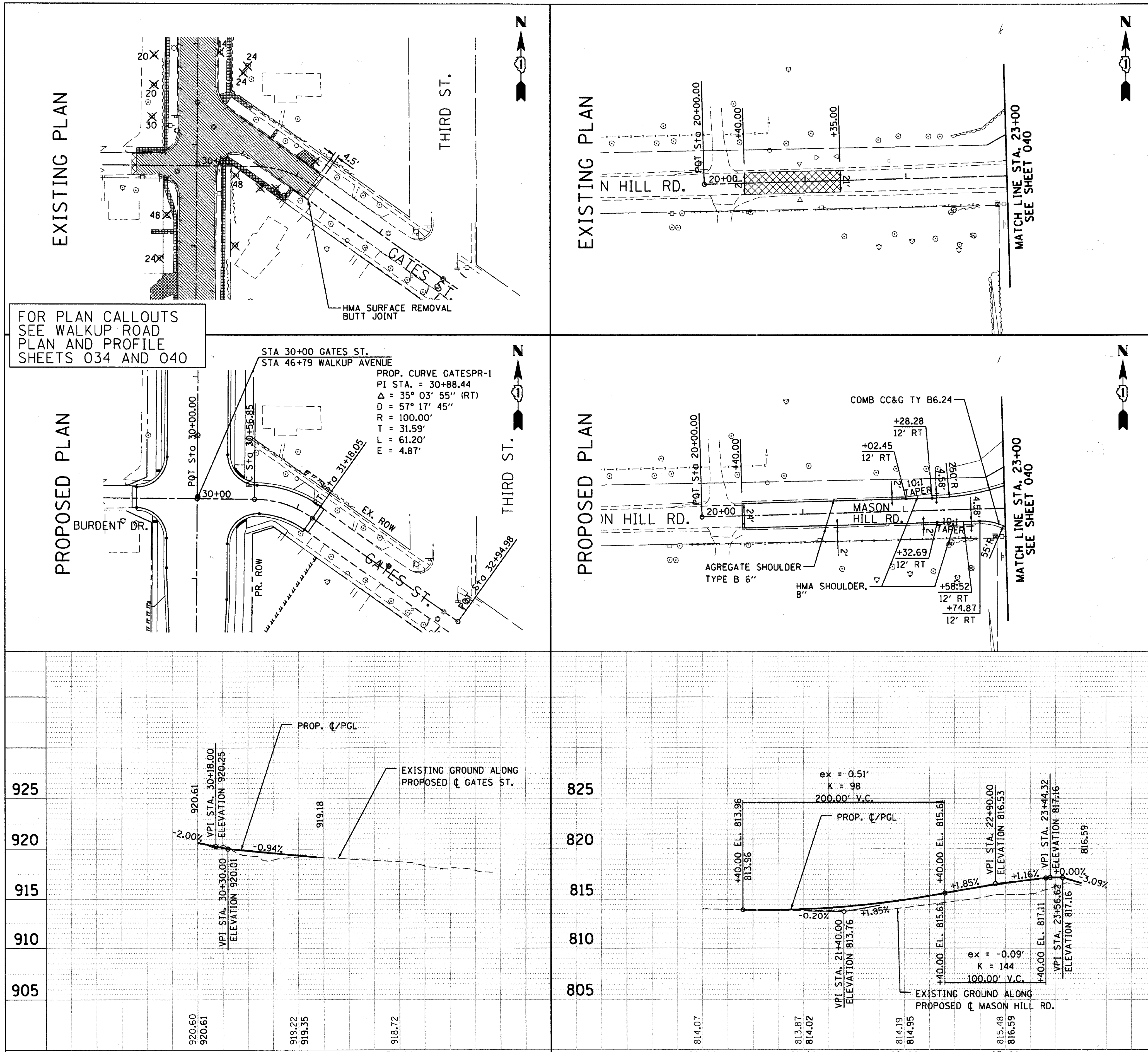
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	043
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



REMOVAL LEGEND

- PAVEMENT REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (SEE NOTE 1 SHEET 037)
- DRIVEWAY PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- LINEAR REMOVALS
- TREE REMOVAL (WITH DIAMETER)

REVISIONS NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

ROADWAY PLAN & PROFILE GATES STREET & MASON HILL ROAD

SCALE: VERT. 1" = 5' HORIZ. 1" = 50'
DATE: 04/15/11
DRAWN BY: RJS
CHECKED BY: MCD

TENG
TENG & ASSOCIATES, INC.

STATION	LEFT EDGE OF EXISTING PAVEMENT			CENTER LINE			RIGHT EDGE OF EXISTING PAVEMENT		
	EXIST. ELEV.	PROP. ELEV.	DIFFERENCE	EXIST. ELEV.	PROP. ELEV.	DIFFERENCE	EXIST. ELEV.	PROP. ELEV.	DIFFERENCE
225+00.00	854.07	854.07	0.00	854.64	854.64	0.00	855.22	855.22	0.00
226+00.00	851.45	851.86	0.41	852.01	852.28	0.27	852.39	852.65	0.26
227+00.00	848.77	849.36	0.59	849.28	849.77	0.49	849.58	850.14	0.56
228+00.00	846.53	846.87	0.34	846.95	847.27	0.32	847.23	847.64	0.41
229+00.00	844.66	844.97	0.31	845.11	845.39	0.28	845.27	845.79	0.52
230+00.00	843.55	843.97	0.42	844.13	844.40	0.27	844.31	844.77	0.46
231+00.00	843.54	843.89	0.35	844.15	844.30	0.15	844.20	844.69	0.49
232+00.00	844.34	844.72	0.38	844.87	845.10	0.23	844.91	845.45	0.54
233+00.00	846.04	846.55	0.51	846.36	846.78	0.42	846.21	846.70	0.49
234+00.00	848.10	848.51	0.41	848.30	848.75	0.45	848.15	848.49	0.34
235+00.00	850.27	850.48	0.21	850.53	850.72	0.19	850.01	850.46	0.45
236+00.00	851.92	852.26	0.34	852.13	852.51	0.38	851.82	852.26	0.44
237+00.00	852.96	853.46	0.50	853.23	853.71	0.48	852.96	853.45	0.49
238+00.00	853.61	854.05	0.44	853.92	854.30	0.38	853.63	854.05	0.42
239+00.00	853.61	854.04	0.43	853.91	854.28	0.37	853.63	854.03	0.40
240+00.00	852.93	853.39	0.46	853.27	853.65	0.38	853.02	853.39	0.37
241+00.00	851.87	852.15	0.28	852.10	852.40	0.30	851.93	852.15	0.22
242+00.00	850.01	850.29	0.28	850.31	850.54	0.23	850.24	850.30	0.06
243+00.00	847.40	847.84	0.44	847.74	848.09	0.35	847.61	847.85	0.24
244+00.00	844.99	845.45	0.46	845.29	845.70	0.41	845.07	845.45	0.38
245+00.00	843.45	843.77	0.32	843.74	844.02	0.28	843.46	843.77	0.31
246+00.00	842.37	842.81	0.44	842.58	843.07	0.49	842.37	842.81	0.44
247+00.00	842.25	842.59	0.34	842.55	842.83	0.28	842.28	842.57	0.29
248+00.00	842.87	843.09	0.22	843.19	843.33	0.14	842.83	843.06	0.23
249+00.00	843.91	844.31	0.40	844.24	844.55	0.31	843.93	844.28	0.35
250+00.00	845.57	846.07	0.50	845.90	846.31	0.41	845.58	846.05	0.47
251+00.00	847.20	847.65	0.45	847.58	847.90	0.32	847.28	847.65	0.37
252+00.00	848.15	848.60	0.45	848.52	848.85	0.33	848.24	848.60	0.36
253+00.00	848.31	848.89	0.58	848.69	849.14	0.45	848.40	848.88	0.48
254+00.00	848.15	848.53	0.38	848.45	848.78	0.33	848.19	848.53	0.34
255+00.00	847.20	847.52	0.32	847.53	847.77	0.24	847.28	847.51	0.23
256+00.00	845.36	845.85	0.49	845.73	846.10	0.37	845.46	845.86	0.40
257+00.00	843.01	843.54	0.53	843.32	843.78	0.46	842.98	843.54	0.56
258+00.00	840.11	840.58	0.47	840.48	840.83	0.35	840.30	840.58	0.28
259+00.00	837.18	837.54	0.36	837.38	837.66	0.28	837.14	837.40	0.26
260+00.00	834.36	834.78	0.42	834.26	834.47	0.21	833.71	834.10	0.39
261+00.00	831.15	831.48	0.33	830.98	831.18	0.20	830.35	830.80	0.45
262+00.00	827.84	828.15	0.31	827.68	827.85	0.17	826.87	827.44	0.57
263+00.00	824.53	824.83	0.30	824.33	824.51	0.18	823.61	824.12	0.51
264+00.00	821.07	821.56	0.49	820.96	821.23	0.27	820.31	820.85	0.54
265+00.00	817.78	818.64	0.86	817.86	818.26	0.40	817.14	817.90	0.76
266+00.00	815.31	816.02	0.71	815.25	815.66	0.41	814.56	815.27	0.71
267+00.00	813.10	813.70	0.60	812.88	813.38	0.50	812.15	812.99	0.84
268+00.00	811.27	811.68	0.41	811.02	811.37	0.35	810.30	810.98	0.68
269+00.00	809.97	810.28	0.31	809.71	809.96	0.25	808.93	809.58	0.65
270+00.00	809.26	809.47	0.21	808.97	809.15	0.18	808.07	808.76	0.69
271+00.00	808.99	809.26	0.27	808.75	808.94	0.19	807.93	808.55	0.62
272+00.00	809.31	809.65	0.34	809.02	809.33	0.31	808.32	808.95	0.63
273+00.00	810.16	810.65	0.49	809.91	810.31	0.40	809.14	809.93	0.79
274+00.00	811.46	812.23	0.77	811.25	811.90	0.65	810.51	811.53	1.02
275+00.00	813.30	814.35	1.05	813.11	814.02	0.91	812.37	813.65	1.28
276+00.00	815.99	816.67	0.68	815.77	816.34	0.57	815.02	815.95	0.93
277+00.00	818.96	819.28	0.32	818.72	818.97	0.25	817.84	818.57	0.73
278+00.00	821.94	822.38	0.44	821.86	822.07	0.21	821.06	821.66	0.60
279+00.00	824.76	825.24	0.48	824.79	825.03	0.24	824.27	824.75	0.48
280+00.00	826.12	826.50	0.38	826.43	826.79	0.36	826.40	826.54	0.14
281+00.00	826.40	827.04	0.64	826.82	827.31	0.49	826.69	827.10	0.41
282+00.00	825.91	826.31	0.40	826.24	826.57	0.33	826.17	826.36	0.19
283+00.00	824.54	824.92	0.38	824.88	825.19	0.31	824.77	824.96	0.19
284+00.00	822.95	823.40	0.45	823.37	823.67	0.30	823.25	823.44	0.19
285+00.00	821.18	821.62	0.44	821.58	821.89	0.31	821.46	821.66	0.20
286+00.00	819.36	819.72	0.36	819.66	819.98	0.32	819.53	819.73	0.20
287+00.00	817.49	817.81	0.32	817.79	818.06	0.27	817.59	817.82	0.23
288+00.00	815.48	815.88	0.40	815.80	816.13	0.33	815.57	815.89	0.32
289+00.00	813.52	813.90	0.38	813.84	814.15	0.31	813.56	813.90	0.34
290+00.00	811.54	811.91	0.37	811.82	812.15	0.33	811.47	811.89	0.42
291+00.00	809.47	809.81	0.34	809.69	810.05	0.36	809.38	809.79	0.41
292+00.00	807.31	807.61	0.30	807.57	807.85	0.28	807.27	807.59	0.32
293+00.00	805.10	805.41	0.31	805.30	805.65	0.35	805.00	805.39	0.39
294+00.00	803.01	803.28	0.27	803.21	803.52	0.31	802.82	803.26	0.44
295+00.00	801.38	801.60	0.22	801.52	801.84	0.32	801.01	801.58	0.57
296+00.00	799.97	800.18	0.21	800.10	800.43	0.33	799.61	800.18	0.57
297+00.00	798.94	799.09	0.15	799.00	799.33	0.33	798.55	799.07	0.52
298+00.00	798.11	798.26	0.15	798.17	798.50	0.33	797.75	798.24	0.49
299+00.00	797.51	797.76	0.25	797.67	798.00	0.33	797.29	797.75	0.46
300+00.00	797.31	797.54	0.23	797.46	797.79	0.33	797.08	797.55	0.47
301+00.00	797.23	797.51	0.28	797.42	797.75	0.33	797.04	797.51	0.47
302+00.00	797.40	797.69	0.29	797.61	797.94	0.33	797.19	797.69	0.50
303+00.00	797.54	797.85	0.31	797.76	798.09	0.33	797.37	797.85	0.48
304+00.00	797.64	797.92	0.28	797.84	798.17	0.33	797.47	797.93	0.46
305+00.00	797.57	797.87	0.30	797.79	798.12	0.33	797.44	797.88	0.44
306+00.00	797.52	797.82	0.30	797.74	798.07	0.33	797.38	797.82	0.44
307+00.00	797.46	797.76	0.30	797.68	798.01	0.33	797.32	797.76	0.44
307+45.00	797.42	797.42	0.00	797.66	797.66	0.00	797.30	797.41	0.11

EXISTING ELEVATIONS ARE FOR INFORMATION ONLY AND ARE BASED OFF DIGITAL TERRAIN MODELING.

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

PAVEMENT ELEVATION SCHEDULE WALKUP ROAD

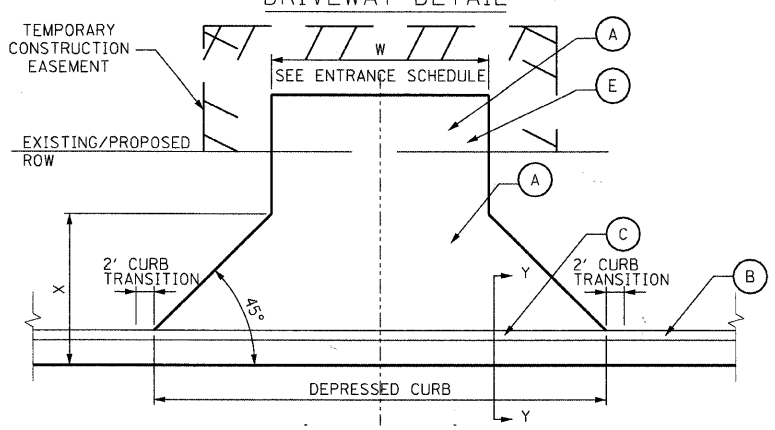
SCALE: N.T.S. DRAWN BY: RJS
DATE: 04/15/11 CHECKED BY: MCD

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE: 312/616-0000

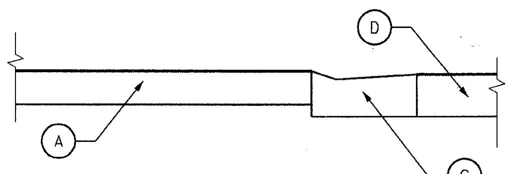
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	045
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

WALKUP AVE / WALKUP RD DRIVEWAY DETAIL



ENTRANCE TYPICAL
BITUMINOUS CONCRETE SURFACE



SECTION Y-Y

- (A) HOT-MIX ASPHALT DRIVEWAY/FIELD ENTRANCE
- (B) COMBINATION CONCRETE CURB AND GUTTER, TYPE TB6.24
- (C) DEPRESSED CURB AND GUTTER, TYPE TB6.24
- (D) PAVEMENT
- (E) AGGREGATE SURFACE COURSE, TYPE B (SEE NOTE 4)

ENTRANCE NOTES:

1. X = 15' FOR RESIDENTIAL, COMMERCIAL AND FIELD ENTRANCES ALONG WALKUP AVE/WALKUP RD UNLESS NOTED ON THE PLANS.
2. REFER TO IDOT DISTRICT 1 DRIVEWAY DETAILS BD-01 & BD-02 FOR IL 176 DRIVEWAY DETAILS.
3. SEE GENERAL NOTE 6 AND 7.
4. AGGREGATE SURFACE COURSE TYPE B CONSTRUCTED OUTSIDE RIGHT OF WAY (WITHIN TEMPORARY EASEMENT) AT EXISTING GRAVEL SURFACE ENTRANCES.

ENTRANCE SCHEDULE

ROAD NAME STATION	LT/RT	TYPE	EXISTING SURFACE	LIMIT OF REMOVAL	REMOVAL AREA (SY)	EX WIDTH (W) (FT)	PR WIDTH (W) (FT)	AGGR SURF CSE B (TON)	STABILIZED DRWY 6" (SY)	STABILIZED DRWY 8" (SY)	PCC DRWY 6" (SY)	PCC DRWY 8" (SY)
WALKUP AVE												
44+13.00	LT	CE	CON	33.6 LT	22.7	-	-	-	-	-	-	-
45+47.86	LT	CE	CON	45.0 LT	63.7	-	34.5	-	-	-	-	91.7
48+79.81	LT	PE	BIT	60.9 LT	68.0	12.0	12.0	-	69.1	-	-	-
WALKUP RD												
51+31.92	RT	CE	BIT	55.0 RT	-	24.6	24.6	-	-	53.9	-	-
52+92.72	LT	CE	BIT	69.9 LT	278.3	32.7	32.7	-	-	99.1	-	-
54+07.17	LT	PE	BIT	50.0 LT	61.2	17.7	17.7	-	47.3	-	-	-
57+06.87	LT	PE	BIT	39.0 LT	18.7	18.9	18.9	-	25.6	-	-	-
59+01.43	LT	PE	GRAVEL	-	-	10.3	12.0	7.14	59.3	-	-	-
64+93.55	LT	PE	CON	54.9 LT	52.9	12.1	12.1	-	-	-	43.5	-
65+33.89	LT	PE	GRAVEL	-	-	18.7	18.7	25.0	45.7	-	-	-
68+55.12	LT	PE	BIT	40.0 LT	56.2	20.0	20.0	-	54.7	-	-	-
70+48.84	LT	PE	BIT	40.0 LT	47.1	12.3	12.3	-	34.8	-	-	-
71+88.82	LT	CE	BIT	36.9 LT	124.3	24.7	24.7	-	-	61.8	-	-
74+08.16	RT	CE	BIT	47.0 RT	95.1	21.0	21.0	-	-	79.6	-	-
74+31.46	LT	CE	BIT	39.1 LT	136.5	24.4	24.4	-	-	66.6	-	-
76+00.00	LT	FE	GRAVEL	-	-	12.0	16.0	-	39.0	-	-	-
78+00.00	LT	FE	GRAVEL	-	-	12.0	16.0	-	39.1	-	-	-
225+22.17	RT	PE	BIT	74.9 RT	128.1	12.0	12.0	-	108.5	-	-	-
234+22.09	RT	CE	BIT	40.1 RT	100.9	24.0	24.0	-	-	61.1	-	-
241+18.95	RT	PE	BIT	40.1 RT	66.8	12.0	12.0	-	54.5	-	-	-
246+00.00	LT	FE	GRAVEL	-	-	12.0	16.0	-	56.1	-	-	-
252+05.01	RT	FE	GRAVEL	-	-	13.3	16.0	-	51.8	-	-	-
254+76.48	LT	PE	GRAVEL	-	-	12.0	12.0	-	44.6	-	-	-
256+41.26	RT	PE	GRAVEL	-	-	14.0	14.0	0.65	47.5	-	-	-
257+92.87	RT	PE	GRAVEL	-	-	21.2	21.2	4.00	67.3	-	-	-
258+82.96	RT	PE	GRAVEL	-	-	18.6	18.6	2.77	59.2	-	-	-
263+48.98	LT	PE	BIT	49.8 LT	96.2	12.0	12.0	-	63.6	-	-	-
265+40.77	RT	FE	GRAVEL	-	-	12.0	16.0	-	59.0	-	-	-
272+76.93	LT	PE	BIT	73.9 LT	114.9	12.2	12.2	-	92.3	-	-	-
279+67.03	LT	PE	BIT	44.1 LT	112.7	18.6	18.6	-	73.1	-	-	-
279+88.78	RT	PE	GRAVEL	-	-	12.6	12.6	-	47.7	-	-	-
284+97.68	RT	FE	GRAVEL	-	-	13.0	16.0	-	52.7	-	-	-
286+25.23	RT	PE	GRAVEL	-	-	15.7	15.7	-	53.3	-	-	-
286+65.68	LT	PE	BIT	44.1 LT	101.4	14.2	14.2	-	58.0	-	-	-
288+55.48	RT	PE	BIT	56.0 RT	90.2	19.5	19.5	-	87.4	-	-	-
290+73.71	RT	PE	BIT	39.8 RT	61.5	16.9	16.9	-	53.8	-	-	-
292+53.73	RT	PE	BIT	39.8 RT	90.3	25.9	25.9	-	71.8	-	-	-
294+82.91	RT	PE	BIT	39.8 RT	65.6	12.7	12.7	-	51.5	-	-	-
296+88.17	RT	PE	GRAVEL	-	-	15.2	15.2	-	43.7	-	-	-
297+93.47	RT	PE	GRAVEL	-	-	13.8	13.8	13.53	90.6	-	-	-
GATES ST												
31+00.00	LT	PE	BIT	26.2 LT	19.3	12.0	12.0	-	18.9	-	-	-
IL RTE 176 @ VET. ACRES PARK												
56+15.41	LT	CE	BIT	280 LT	315.4	12.0	12.0	-	-	330.6	-	-
56+39.12	LT	CE	BIT	280 LT	323.0	12.0	12.0	-	-	338.7	-	-

ENTRANCE SCHEDULE

ROAD NAME STATION	LT/RT	TYPE	EXISTING SURFACE	LIMIT OF REMOVAL	REMOVAL AREA (SY)	EX WIDTH (W) (FT)	PR WIDTH (W) (FT)	HMA SURF-CSE MIX "C", N50 (TON)	HMA BASE CSE 6" (SY)	HMA BASE CSE 8" (SY)	PCC DRWY 6" (SY)	PCC DRWY 8" (SY)
IL RTE 176												
43+48.57	LT	CE	CON	64.1 LT	86.0	22.0	22.0	-	-	-	-	96.8
45+05.16	LT	CE	BIT	70.2 LT	103.2	33.5	33.5	14.26	-	127.3	-	-
51+33.74	RT	PE	BIT	55.0 RT	69.1	19.5	19.5	6.46	57.7	-	-	-
52+67.33	LT	PE	CON	63.6 LT	76.8	18.4	18.4	-	-	-	47.6	-
53+41.35	LT	PE	CON	57.1 LT	72.8	16.3	16.3	-	-	-	39.0	-
54+18.16	LT	PE	BIT	55.0 LT	92.2	15.9	15.9	4.82	43.0	-	-	-
54+44.88	RT	PE	BIT	55.0 RT	93.8	23.3	23.3	7.54	67.3	-	-	-
54+99.32	LT	PE	BIT	49.9 LT	69.5	20.9	20.9	4.96	44.3	-	-	-
55+77.88	LT	PE	CON	55.2 LT	69.6	17.7	17.7	-	-	-	54.7	-
56+15.41	LT	CE	BIT	56.3 LT	51.0	12.6	12.6	4.86	-	43.4	-	-
56+39.12	LT	CE	BIT	55.7 LT	52.3	13.6	13.6	5.20	-	46.4	-	-
56+79.26	LT	PE	BIT	45.4 LT	37.0	12.0	12.0	3.15	28.1	-	-	-
57+69.90	LT	PE	BIT	45.0 LT	47.9	15.4	15.4	4.44	39.6	-	-	-
58+07.59	RT	PE	BIT	55.0 RT	42.9	14.8	14.8	4.98	44.5	-	-	-
58+24.68	LT	PE	BIT	45.0 LT	42.4	14.2	14.2	4.16	37.1	-	-	-
58+55.04	LT	PE	BIT	49.0 LT	68.1	19.8	19.8	6.78	60.5	-	-	-
59+31.74	LT	PE	BIT	45.0 LT	-	-	12.0	4.11	36.7	-	-	-
59+84.92	LT	PE	BIT	45.0 LT	59.0	20.5	12.0	4.37	39.0	-	-	-
60+57.05	RT	CE	BIT	20.7 RT	32.7	26.3	26.3	-	-	32.7	-	-
60+67.00	LT	PE	CON	29.6 LT	17.4	9.5	9.5	-	-	-	17.4	-
61+08.21	LT	PE	BIT	22.2 LT	5.6	23.1	23.1	0.65	5.8	-	-	-

FE = FIELD ENTRANCE
PE = PRIVATE ENTRANCE
CE = COMMERCIAL ENTRANCE

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

DRIVEWAY DETAIL & SCHEDULE

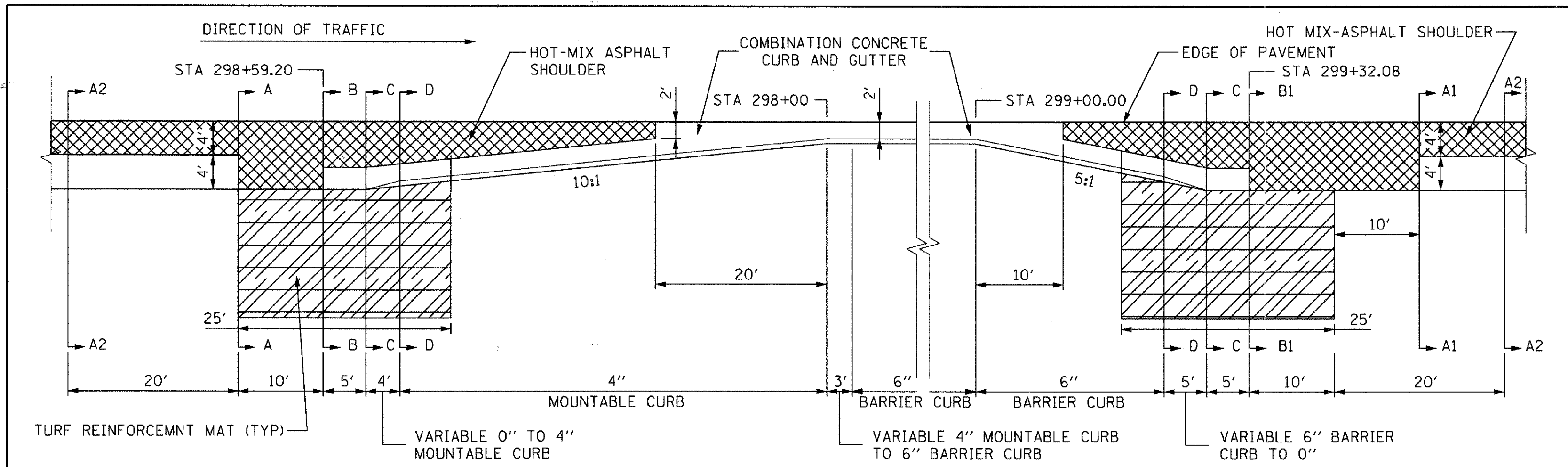
SCALE: N.T.S.
DRAWN BY: KV
DATE: 04/15/11
CHECKED BY: MCD

TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	046
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

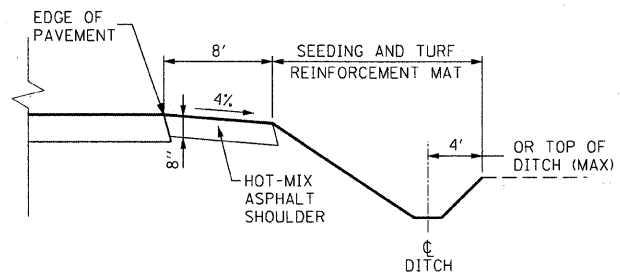
CONTRACT NO: 63522



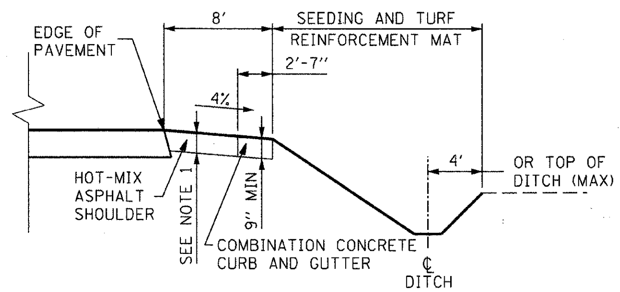
STA 298+59.20 LT TO STA 298+00.00 LT

STA 299+00.00 RT TO STA 299+32.08 RT

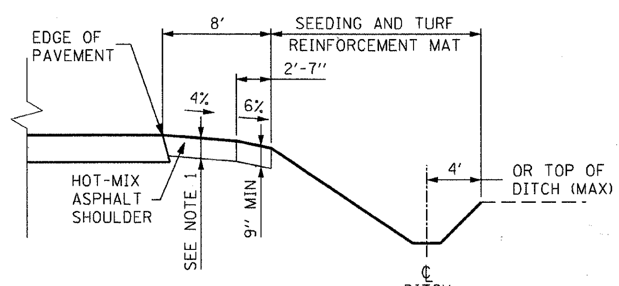
CURB TRANSITION DETAIL



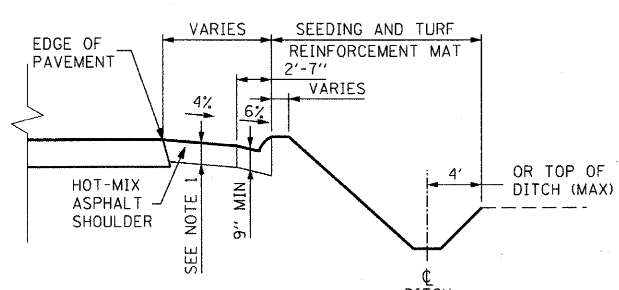
SECTION A-A



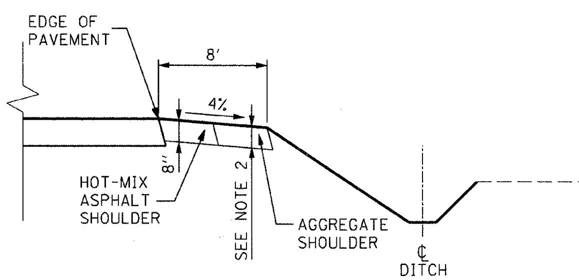
SECTION B-B



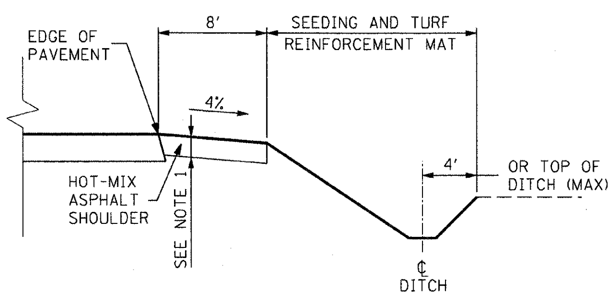
SECTION C-C



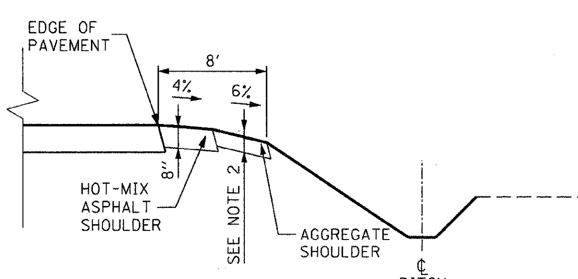
SECTION D-D



SECTION A1-A1



SECTION B1-B1



SECTION A2-A2

CURB TRANSITION NOTES:

1. THE THICKNESS OF THE HOT-MIX ASPHALT SHOULDER CONSTRUCTED BETWEEN THE EDGE OF PAVEMENT AND THE COMBINATION CONCRETE CURB AND GUTTER SHALL BE 1/4" GREATER THAN THE ADJACENT CONBINATION CONCRETE CURB AND GUTTER. THE THICKNESS OF THE HOT-MIX ASPHALT SHOULDER SHALL BE 8" AT SECTIONS A-A AND A1-A1 AND SHALL UNIFORMLY TRANSITION TO THE REQURED THICKNESS AT SECTION B-B AND B1-B1. THE COST OF THE ADDITIONAL DEPTH OF HOT-MIX ASPHALT SHOULDERS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR HOT-MIX ASPHALT SHOULDERS, 8"
2. THE THICKNESS OF THE AGGREGATE SHOULDER SHALL BE 8" AT SECTIONS A-A AND A1-A1 AND SHALL UNIFORMLY TRANSITION TO A THICKNESS OF 6" AT SECTION A2-A2. THE COST OF THE ADDITIONAL THICKNESS OF AGGREGATE SHOULDER WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR AGGREGATE SHOULDERS, TYPE B, 6".
3. ALL CURB AND GUTTER SHOWN ON THE CURB TRANSITION DETAIL WILL BE PAID FOR AS COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24.

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

CURB TO SHOULDER TRANSITION DETAILS

SCALE: N.T.S. DRAWN BY: RJS
DATE: 04/15/11 CHECKED BY: MCD

TENG

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	047
STA.	TO STA. -			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

WATER MAIN CONSTRUCTION SEQUENCE:

1. PRIOR TO THE INSTALLATION OF THE WATER MAIN ACROSS FIRST STREET, SCHEDULE THE WATER MAIN SHUTDOWN OF FIRST STREET WITH CRYSTAL LAKE PUBLIC WORKS (CLPW) (815-356-3614). PROVIDE A MINIMUM 2 WORKING DAY NOTICE TO CLPW PRIOR TO THE REQUIRED SHUTDOWN. CLPW WILL SHUT TWO (2) EXISTING VALVES BOTH NORTH AND SOUTH OF THE NEW 12" WATER MAIN CROSSING. IMMEDIATELY FOLLOWING THE SHUTDOWN, INSTALL THE NEW 12" WATER MAIN THROUGH THE EXISTING 4" WATER MAIN INSTALLING A 12X4 TEE AND A 4" VALVE IN BOX DIRECTLY(FLANGE FITTING) ONTO THE 12X4 TEE. INSTALL THE 4" WATER MAIN FROM THE NEW 4"VALVE TO THE EXISTING 4" WATER MAIN; INSTALL A 1" CORPORATION STOP W/ SADDLE AND A 1" COPPER WHIP W/ ROUNDWAY ON THE EXISTING WATER MAIN SIDE OF THE 4" VALVE FOR FLUSHING AND SAMPLING PURPOSES. SWAB PIPES AND FITTINGS THAT WILL NOT BE PRESSURE TESTED OR CHLORINATED WITH CHLORINE SOLUTION OF AT LEAST 50 MG/L. DURING INSTALLATION, USE EXTRA PRECAUTION TO PREVENT SOIL AND DEBRIS FROM ENTERING THE PIPE. COMPLETE INSTALLATION OF NEW WATER MAIN CROSSING OF FIRST STREET. CLOSE NEW 4" VALVE. CLPW WILL TURN ON EXISTING WATER MAIN, FLUSH AND SAMPLE THE EXISTING WATER MAIN. WHEN CONNECTING NEW PIPE TO THE EXISTING WATER SYSTEM, USE SYSTEM OPERATING PRESSURE TO VISUALLY INSPECT FOR LEAKS PRIOR TO BACKFILLING WHEN FEASIBLE. UPON CLPW COMPLETION OF ALL REQUIRED FLUSHING AND SAMPLING, THE CONTRACTOR SHALL REMOVE THE COPPER WHIP AND ABANDON THE CORPORATION STOP WITH A COPPER DISK SECURED PROPERLY UNDER THE NUT. ROAD PLATES MAY BE REQUIRED DUE TO MINIMUM 24 HOUR WATER SAMPLING REQUIREMENTS. THE EXISTING 4" VALVE CLOSEST TO IL RTE 176 SHALL REMAIN CLOSED FOR THE DURATION OF THE PROJECT. THE DURATION OF THE SHUTDOWN ON THE EXISTING WATER MAIN MUST NOT EXCEED 4 HOURS.

2. PRIOR TO THE INSTALLATION OF THE WATER MAIN ACROSS SECOND STREET, SCHEDULE THE WATER MAIN SHUTDOWN OF SECOND STREET WITH CRYSTAL LAKE PUBLIC WORKS (CLPW) (815-356-3614). PROVIDE A MINIMUM 2 WORKING DAY NOTICE TO CLPW PRIOR TO THE REQUIRED SHUTDOWN. CLPW WILL SHUT TWO (2) EXISTING VALVES BOTH SOUTH OF THE NEW 12" WATER MAIN CROSSING. PRIOR TO SHUTDOWN, INSTALL THE NEW 12" WATER MAIN UNDER THE EXISTING LIVE 4" WATER MAIN, INSTALLING A 12X4 TEE AND A 4" VALVE IN BOX DIRECTLY(FLANGE FITTING) ONTO THE 12X4 TEE. IMMEDIATELY FOLLOWING THE SHUTDOWN, CONNECT THE 4" VALVE TO THE EXISTING 4" WATER MAIN ISOLATING THE OLD WATER MAIN TO THE NORTH; INSTALL A 1" CORPORATION STOP W/ SADDLE AND A 1" COPPER WHIP W/ ROUNDWAY ON THE EXISTING WATER MAIN SIDE OF THE 4" VALVE FOR FLUSHING AND SAMPLING PURPOSES. SWAB ALL PIPES AND FITTINGS THAT WILL NOT BE PRESSURE TESTED OR CHLORINATED WITH CHLORINE SOLUTION OF AT LEAST 50 MG/L. DURING INSTALLATION, USE EXTRA PRECAUTION TO PREVENT SOIL AND DEBRIS FROM ENTERING THE PIPE. COMPLETE INSTALLATION OF NEW WATER MAIN CROSSING OF SECOND STREET. CLOSE NEW 4" VALVE. CLPW WILL TURN ON EXISTING WATER MAIN, FLUSH AND SAMPLE THE EXISTING WATER MAIN. WHEN CONNECTING NEW PIPE TO THE EXISTING WATER SYSTEM, USE SYSTEM OPERATING PRESSURE TO VISUALLY INSPECT FOR LEAKS PRIOR TO BACKFILLING WHEN FEASIBLE. UPON CLPW COMPLETION OF ALL REQUIRED FLUSHING AND SAMPLING, THE CONTRACTOR SHALL REMOVE THE COPPER WHIP AND ABANDON THE CORPORATION STOP WITH A COPPER DISK SECURED PROPERLY UNDER THE NUT. ROAD PLATES MAY BE REQUIRED DUE TO MINIMUM 24 HOUR WATER SAMPLING REQUIREMENTS. THE EXISTING 4" VALVE CLOSEST TO IL RTE 176 SHALL REMAIN CLOSED FOR THE DURATION OF THE PROJECT. THE DURATION OF THE SHUTDOWN ON THE EXISTING WATER MAIN MUST NOT EXCEED 4 HOURS.

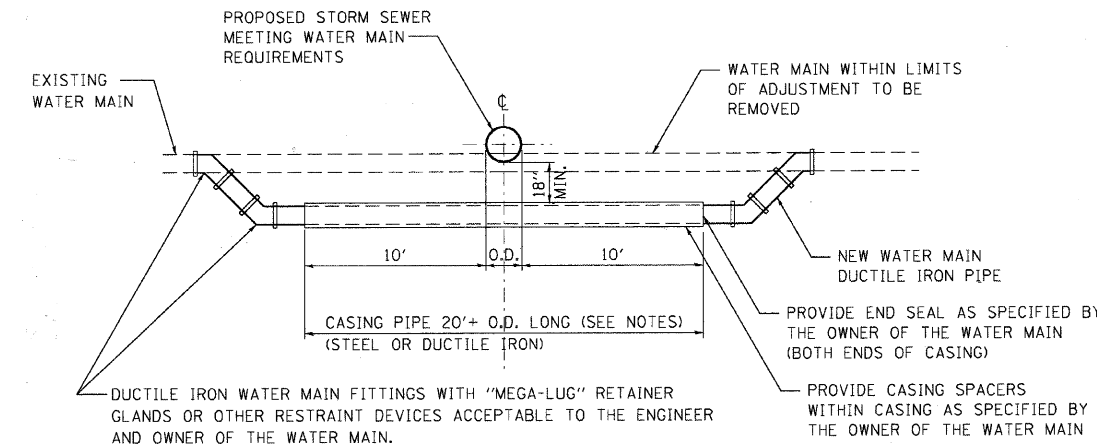
3. PRIOR TO THE INSTALLATION OF THE WATER MAIN ACROSS THIRD STREET, SCHEDULE THE WATER MAIN SHUTDOWN OF THIRD STREET WITH CRYSTAL LAKE PUBLIC WORKS (CLPW) (815-356-3614). PROVIDE A MINIMUM 2 WORKING DAY NOTICE TO CLPW PRIOR TO THE REQUIRED SHUTDOWN. CLPW WILL SHUT TWO (2) EXISTING VALVES BOTH SOUTH OF THE NEW 12" WATER MAIN CROSSING. PRIOR TO SHUTDOWN, INSTALL THE NEW 12" WATER MAIN UNDER THE EXISTING LIVE 4" WATER MAIN, INSTALLING A 12X4 TEE AND A 4" VALVE IN BOX DIRECTLY(FLANGE FITTING) ONTO THE 12X4 TEE. IMMEDIATELY FOLLOWING THE SHUTDOWN, CONNECT THE 4" VALVE TO THE EXISTING 4" WATER MAIN ISOLATING THE OLD WATER MAIN TO THE NORTH, INSTALL A 1" CORPORATION STOP W/ SADDLE AND A 1" COPPER WHIP W/ ROUNDWAY ON THE EXISTING WATER MAIN SIDE OF THE 4" VALVE FOR FLUSHING AND SAMPLING PURPOSES. SWAB ALL PIPES AND FITTINGS THAT WILL NOT BE PRESSURE TESTED OR CHLORINATED WITH CHLORINE SOLUTION OF AT LEAST 50 MG/L. DURING INSTALLATION, USE EXTRA PRECAUTION TO PREVENT SOIL AND DEBRIS FROM ENTERING THE PIPE. COMPLETE INSTALLATION OF NEW WATER MAIN CROSSING OF THIRD STREET. CLOSE NEW 4" VALVE. CLPW WILL TURN ON EXISTING WATER MAIN, FLUSH AND SAMPLE THE EXISTING WATER MAIN. WHEN CONNECTING NEW PIPE TO THE EXISTING WATER SYSTEM, USE SYSTEM OPERATING PRESSURE TO VISUALLY INSPECT FOR LEAKS PRIOR TO BACKFILLING WHEN FEASIBLE. UPON CLPW COMPLETION OF ALL REQUIRED FLUSHING AND SAMPLING, THE CONTRACTOR SHALL REMOVE THE COPPER WHIP AND ABANDON THE CORPORATION STOP WITH A COPPER DISK SECURED PROPERLY UNDER THE NUT. ROAD PLATES MAY BE REQUIRED DUE TO MINIMUM 24 HOUR WATER SAMPLING REQUIREMENTS. THE EXISTING 4" VALVE CLOSEST TO IL RTE 176 SHALL REMAIN CLOSED FOR THE DURATION OF THE PROJECT. THE DURATION OF THE SHUTDOWN ON THE EXISTING WATER MAIN MUST NOT EXCEED 4 HOURS.

4. PRIOR TO MAKING THE WATER MAIN CONNECTION ON WALKUP ROAD, NORTH OF IL RTE 176, AND ON IL RTE 176, WEST OF WALKUP ROAD, SCHEDULE THE WATER MAIN SHUTDOWN OF WALKUP ROAD WITH CRYSTAL LAKE PUBLIC WORKS (CLPW) (815-356-3614). PROVIDE A MINIMUM 2 WORKING DAY NOTICE TO CLPW PRIOR TO THE REQUIRED SHUTDOWN. CLPW WILL SHUT A TOTAL OF SIX (6) EXISTING VALVES. FOUR (4) AT THE INTERSECTION OF WALKUP ROAD/IL RTE 176 AND TWO (2) AT THE WALKUP ROAD DRIVEWAY NORTH OF IL RTE 176 (LOOP TO THE STRIP MALL AT THE NORTHWEST CORNER OF THE INTERSECTION). PRIOR TO THE SHUTDOWN, INSTALL AN 8" LINE STOP ON THE EXISTING 8" WATER MAIN ALONG IL RTE 176 WEST OF WALKUP ROAD. IMMEDIATELY FOLLOWING THE SHUTDOWN, INSTALL THE 8" VALVE IN VAULT EAST OF THE LINE STOP AND CONNECT THE NEW 12" WATER MAIN TO THE EXISTING 8" WATER MAIN ON WALKUP ROAD, JUST NORTH OF IL RTE 176. INSTALL A 1" CORPORATION STOP, IN BOTH VAULTS, WITH A 1" COPPER WHIP W/ ROUNDWAY ON THE EXISTING WATER MAIN SIDE OF THE 8" AND 12" VALVES FOR FLUSHING AND SAMPLING PURPOSES. SWAB ALL PIPES AND FITTINGS THAT WILL NOT BE PRESSURE TESTED OR CHLORINATED WITH CHLORINE SOLUTION OF AT LEAST 50 MG/L. DURING INSTALLATION, USE EXTRA PRECAUTION TO PREVENT SOIL AND DEBRIS FROM ENTERING THE PIPE. CLOSE THE NEW 8" AND 12VALVES. THE CONTRACTOR SHALL RELEASE THE LINE STOP ON IL RTE 176 AND CLPW WILL TURN ON EXISTING WATER MAIN NORTH OF IL RTE 176 AT THE WALKUP ROAD DRIVEWAY (LOOP TO THE STRIP MALL AT THE NORTHWEST CORNER OF THE INTERSECTION). CLPW WILL FLUSH AND SAMPLE BOTH EXISTING WATER MAINS. WHEN CONNECTING NEW PIPE TO THE EXISTING WATER SYSTEM, USE SYSTEM OPERATING PRESSURE TO VISUALLY INSPECT FOR LEAKS PRIOR TO BACKFILLING WHEN FEASIBLE. UPON CLPW COMPLETION OF ALL REQUIRED FLUSHING AND SAMPLING, THE CONTRACTOR SHALL REMOVE THE COPPER WHIPS FROM THE CORPORATION STOPS. THE EXISTING FOUR (4) VALVES AT THE INTERSECTION OF WALKUP ROAD/IL RTE 176 SHALL REMAIN CLOSED FOR THE DURATION OF THE PROJECT. THE DURATION OF THE SHUTDOWN ON THE EXISTING WATER MAIN NORTH OF IL RTE 176 AT THE WALKUP ROAD DRIVEWAY MUST NOT EXCEED 4 HOURS.

5. PRIOR TO INSTALLING THE 8" VALVE IN VAULT ON GATES STREET AT WALKUP AVENUE, SCHEDULE A WATER MAIN SHUTDOWN, FLUSH AND SAMPLE WITH CRYSTAL LAKE PUBLIC WORKS (CLPW) (815-356-3614). PROVIDE A MINIMUM 2 WORKING DAY NOTICE TO CLPW PRIOR TO THE REQUIRED FLUSH AND SAMPLE. IMMEDIATELY FOLLOWING THE INSTALLATION OF THE 8" VALVE IN VAULT, INSTALL A 1" CORPORATION STOP IN THE VAULT WITH A 1" COPPER WHIP W/ ROUNDWAY ON THE EXISTING WATER MAIN SIDE OF THE 8" VALVES FOR FLUSHING AND SAMPLING PURPOSES. SWAB ALL PIPES AND FITTINGS THAT WILL NOT BE PRESSURE TESTED OR CHLORINATED WITH CHLORINE SOLUTION OF AT LEAST 50 MG/L. DURING INSTALLATION, USE EXTRA PRECAUTION TO PREVENT SOIL AND DEBRIS FROM ENTERING THE PIPE. CLOSE THE NEW 8" VALVE. CLPW WILL FLUSH AND SAMPLE THE EXISTING WATER MAIN ON GATES STREET. WHEN CONNECTING NEW PIPE TO THE EXISTING WATER SYSTEM, USE SYSTEM OPERATING PRESSURE TO VISUALLY INSPECT FOR LEAKS PRIOR TO BACKFILLING WHEN FEASIBLE. UPON CLPW COMPLETION OF ALL REQUIRED FLUSHING AND SAMPLING, THE CONTRACTOR SHALL REMOVE THE COPPER WHIPS FROM THE CORPORATION STOPS. THE DURATION OF THE SHUTDOWN ON THE EXISTING 8"WATER MAIN MUST NOT EXCEED 4 HOURS.

6. PRIOR TO SHUTTING DOWN THE EXISTING 4" WATER MAIN ON WALKUP AVE. AND GATES ST., INSTALL THE 12" WATER MAIN ON WALKUP AVE., NORTH OF GATES ST., UP TO AND INCLUDING THE 4" VALVE IN BOX. THE CONNECTION OF THE EXISTING 4" WATER MAIN ON GATES STREET EAST OF WALKUP AVE., THE CONNECTION OF THE EXISTING 4" WATER MAIN ON BURDENT STREET AT WALKUP AVENUE AND THE CUTTING AND CAPPING OF THE 4" WATER MAIN WEST OF THE 12" WATER MAIN MUST BE COMPLETED WITHIN A 4 HOUR PERIOD. INSTALL A 1" CORPORATION STOP W/ SADDLE AND A 1" COPPER WHIP W/ ROUNDWAY IN THE EXISTING VALVE VAULT ON GATES STREET NEAR THIRD STREET AND AT THE CUT AND CAP LOCATION FOR THE EXISTING 4" WATER MAIN WEST OF THE 12" WATER MAIN FOR FLUSHING AND SAMPLING PURPOSES. PRIOR TO BEGINNING THIS WORK, SCHEDULE A WATER MAIN SHUTDOWN WITH CRYSTAL LAKE PUBLIC WORKS (CLPW) (815-356-3614), FLUSH AND SAMPLE THE EXISTING 4" WATER MAIN THAT MUST TEMPORARILY REMAIN IN SERVICE. PROVIDE A MINIMUM 2 WORKING DAY NOTICE TO CLPW PRIOR TO THE REQUIRED SHUTDOWN, FLUSH AND SAMPLE.

7. UPON COMPLETION OF THE 6 ITEMS ABOVE, INCLUDING TESTING, CHLORINATION, OBTAINING AN IEPA OPERATING PERMIT AND TRANSFERING ALL WATER SERVICES TO THE NEW WATER MAIN, AND PRIOR TO THE CONNECTION OF THE NEW WATER MAIN TO THE EXISTING 4" WATER MAIN ON IL RTE 176, SCHEDULE THE SHUTDOWN OF THE REMAINING OLD WATER MAIN WITHIN THE PROJECT WITH CRYSTAL LAKE PUBLIC WORKS (CLPW) (815-356-3614). PROVIDE A MINIMUM 2 WORKING DAY NOTICE TO CLPW PRIOR TO THE REQUIRED SHUTDOWN, FLUSHING AND SAMPLING. CLPW WILL SHUT A TOTAL OF THREE (3) EXISTING VALVES. INSTALL A 1" CORPORATION STOP W/ SADDLE AND A 1" COPPER WHIP W/ ROUNDWAY IN THE EXISTING VALVE VAULT ON IL RTE 176 EAST OF FIRST STREET, FOR FLUSHING AND SAMPLING PURPOSES. SWAB ALL PIPES AND FITTINGS THAT WILL NOT BE PRESSURE TESTED OR CHLORINATED WITH CHLORINE SOLUTION OF AT LEAST 50 MG/L. DURING INSTALLATION, USE EXTRA PRECAUTION TO PREVENT SOIL AND DEBRIS FROM ENTERING THE PIPE. CLPW WILL FLUSH AND SAMPLE THE EXISTING WATER MAIN ON IL RTE 176. WHEN CONNECTING NEW PIPE TO THE EXISTING WATER SYSTEM, USE SYSTEM OPERATING PRESSURE TO VISUALLY INSPECT FOR LEAKS PRIOR TO BACKFILLING WHEN FEASIBLE. UPON CLPW COMPLETION OF ALL REQUIRED FLUSHING AND SAMPLING, THE CONTRACTOR SHALL REMOVE ALL THE COPPER WHIPS FROM THE CORPORATION STOPS.



WATER MAIN ADJUSTMENT DETAIL

WATER MAIN CROSSING NOTES

WATER MAIN PIPE JOINTS LOCATED WITHIN THE CASING PIPE SHALL BE RESTRAINED AS SPECIFIED BY THE OWNER OF THE WATER MAIN

WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL SEPARATION OF 18 INCHES BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE CROWN OF THE WATER MAIN

CASING PIPE SHALL BE REQUIRED WHERE PROPOSED STORM SEWER DOES NOT MEET WATER MAIN REQUIREMENTS.

WATER MAIN CONSTRUCTION NOTES:

1. NEW WATER MAIN CONSTRUCTION ALONG IL RTE 176 AND WALKUP AVENUE SHALL BE COMPLETED ACCORDING TO THE WATER MAIN CONSTRUCTION SEQUENCE SPECIFIED IN THE PLANS.

2. WATER SUPPLY SYSTEM WORK CONSISTING OF NEW WATER MAIN CONSTRUCTION, EXISTING WATER MAIN ADJUSTMENTS AND FIRE HYDRANTS TO BE MOVED OR RELOCATED SHALL COMPLETED BEFORE TEMPORARY PAVEMENT IS CONSTRUCTED AT THE WORK LOCATIONS.

3. EXISTING PAVEMENT REMOVAL AND REPLACEMENT REQUIRED FOR WATER SUPPLY SYSTEM CONSTRUCTION WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 442 OF THE STANDARD SPECIFICAITONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR PAVEMENT PATCHING, 9 INCH.

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

WATER MAIN CONSTRUCTION NOTES

SCALE: N.T.S.
DRAWN BY:
DATE: 06/10/11
CHECKED BY:

TENG

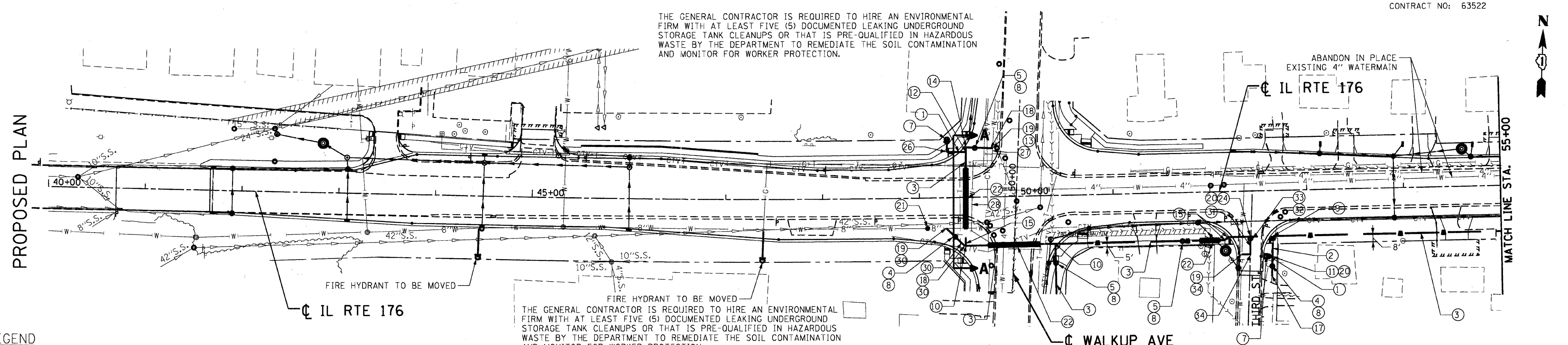
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE: 312/616-0000

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	048
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

PROPOSED PLAN

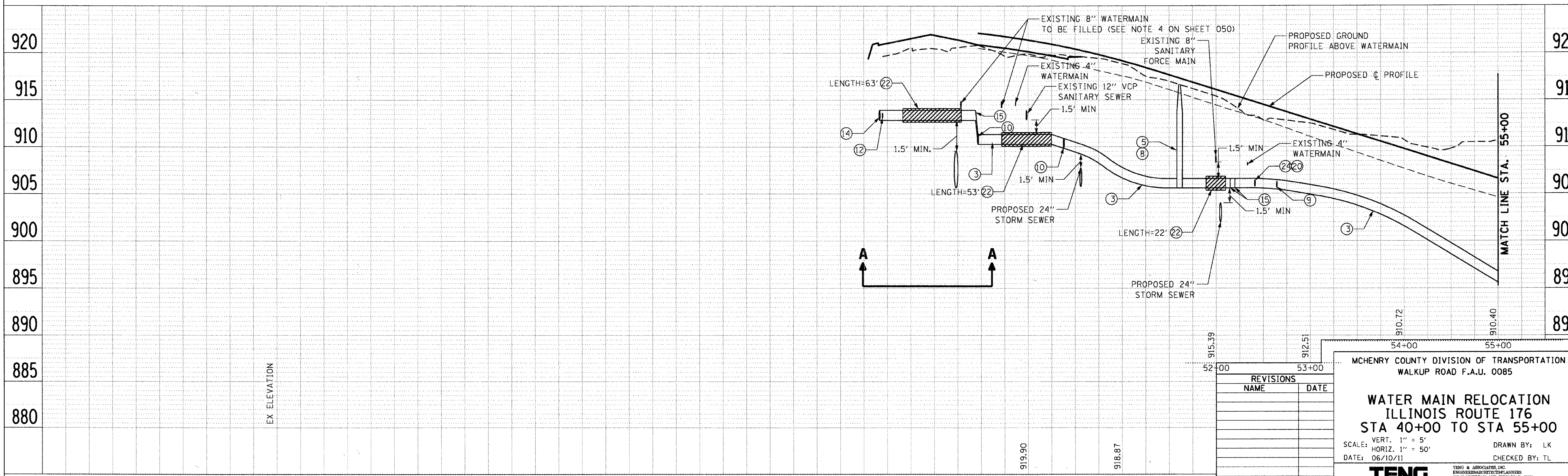
THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.



THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

LEGEND

1. DUCTILE IRON WATER MAIN 6"
2. DUCTILE IRON WATER MAIN 8"
3. DUCTILE IRON WATER MAIN 12"
4. WATER VALVES 8"
5. WATER VALVES 12"
6. FIRE HYDRANT EXTENSION
7. FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX
8. VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID
9. DUCTILE IRON WATER MAIN TEE, 12" X 8"
10. DUCTILE IRON WATER MAIN TEE, 12" X 12"
11. DUCTILE IRON WATER MAIN TEE, 8" X 6"
12. DUCTILE IRON WATER MAIN TEE, 12" X 6"
13. DUCTILE IRON WATER MAIN FITTINGS 8" 90 DEGREE BEND
14. DUCTILE IRON WATER MAIN FITTINGS 12" 90 DEGREE BEND
15. DUCTILE IRON WATER MAIN FITTINGS 12" 45 DEGREE BEND
16. DUCTILE IRON WATER MAIN FITTINGS - 12" PLUG (CAP)
17. DUCTILE IRON WATER MAIN FITTING - 8" PLUG (CAP)
18. DUCTILE IRON WATER MAIN REDUCER 12" X 8"
19. CONNECTION TO EXISTING WATER MAIN
20. WITH FLANGE
21. WATER MAINLINE STOP 8"
22. STEEL CASING PIPE, AUGERED AND JACKED, 24"
23. CUT AND CAP EXISTING 4" WATER MAIN
24. DUCTILE IRON WATER MAIN TEE, 12" X 4"
25. DUCTILE IRON WATER MAIN TEE, 4" X 4"
26. DUCTILE IRON WATER MAIN FITTINGS 6" 90 DEGREE BEND
27. SEAL EXISTING 8" WATER MAIN (SEE NOTE 3 SHEET 050)
28. ABANDON EXISTING WATER MAIN, FILL WITH CLSM
29. DUCTILE IRON WATER MAIN TEE, 8" X 8"
30. DUCTILE IRON WATER MAIN FITTINGS 8" 45 DEGREE BEND
31. DUCTILE IRON WATER MAIN 4"
32. WATER VALVES 4"
33. CAST IRON VALVE BOXES, 4"
34. DUCTILE IRON WATER MAIN FITTINGS 4" 90 DEGREE BEND
35. DUCTILE IRON WATER MAIN TEE 8" X 4"
36. DUCTILE IRON WATER MAIN FITTINGS 4" 45 DEGREE BEND



REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

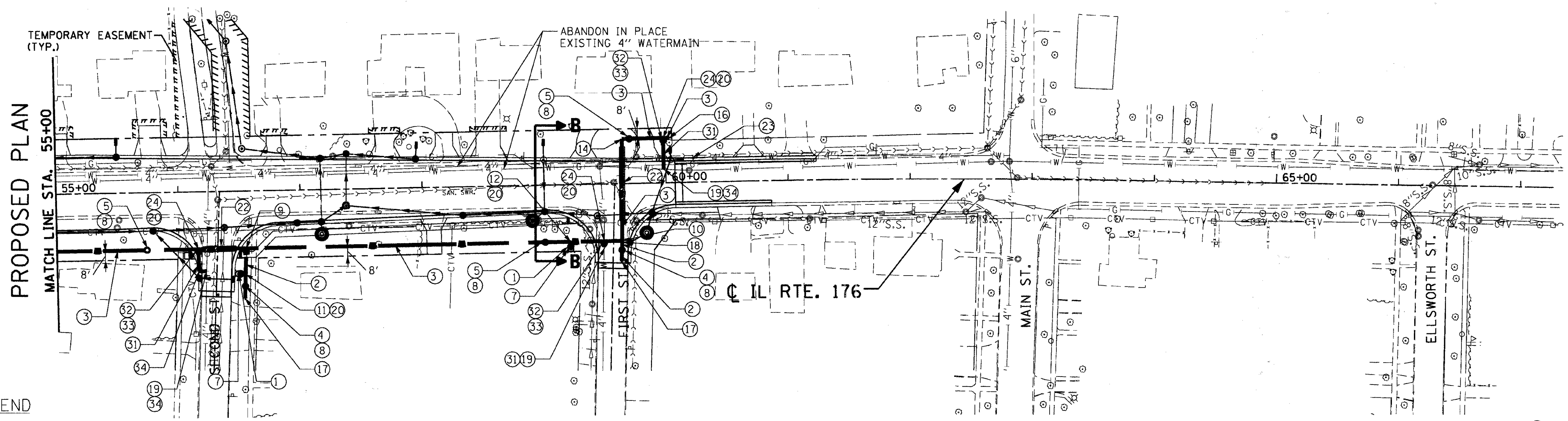
WATER MAIN RELOCATION ILLINOIS ROUTE 176 STA 40+00 TO STA 55+00

SCALE: VERT. 1" = 5' HORIZ. 1" = 50'
DATE: 06/10/11
DRAWN BY: LK
CHECKED BY: TL

TENG

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	049
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



LEGEND

1. DUCTILE IRON WATER MAIN 6"
2. DUCTILE IRON WATER MAIN 8"
3. DUCTILE IRON WATER MAIN 12"
4. WATER VALVES 8"
5. WATER VALVES 12"
6. FIRE HYDRANT EXTENSION
7. FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX
8. VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID
9. DUCTILE IRON WATER MAIN TEE, 12" X 8"
10. DUCTILE IRON WATER MAIN TEE, 12" X 12"
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13. DUCTILE IRON WATER MAIN FITTINGS 8" 90 DEGREE BEND
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16. DUCTILE IRON WATER MAIN FITTINGS - 12" PLUG (CAP)
17. DUCTILE IRON WATER MAIN FITTING - 8" PLUG (CAP)
18. DUCTILE IRON WATER MAIN REDUCER 12" X 8"
19. CONNECTION TO EXISTING WATER MAIN
20. WITH FLANGE
21. WATER MAINLINE STOP 8"
22. STEEL CASING PIPE, AUGERED AND JACKED, 24"
23. CUT AND CAP EXISTING 4" WATER MAIN
24. DUCTILE IRON WATER MAIN TEE, 12" X 4"
25. DUCTILE IRON WATER MAIN TEE, 4" X 4"
26. DUCTILE IRON WATER MAIN FITTINGS 6" 90 DEGREE BEND
27. SEAL EXISTING 8" WATER MAIN (SEE NOTE 3 SHEET 050)
28. ABANDON EXISTING WATER MAIN, FILL WITH CLSM
29. DUCTILE IRON WATER MAIN TEE, 8" X 8"
30. DUCTILE IRON WATER MAIN FITTINGS 8" 45 DEGREE BEND
31. DUCTILE IRON WATER MAIN 4"
32. WATER VALVES 4"
33. CAST IRON VALVE BOXES, 4"
34. DUCTILE IRON WATER MAIN FITTINGS 4" 90 DEGREE BEND
35. DUCTILE IRON WATER MAIN TEE 8" X 4"
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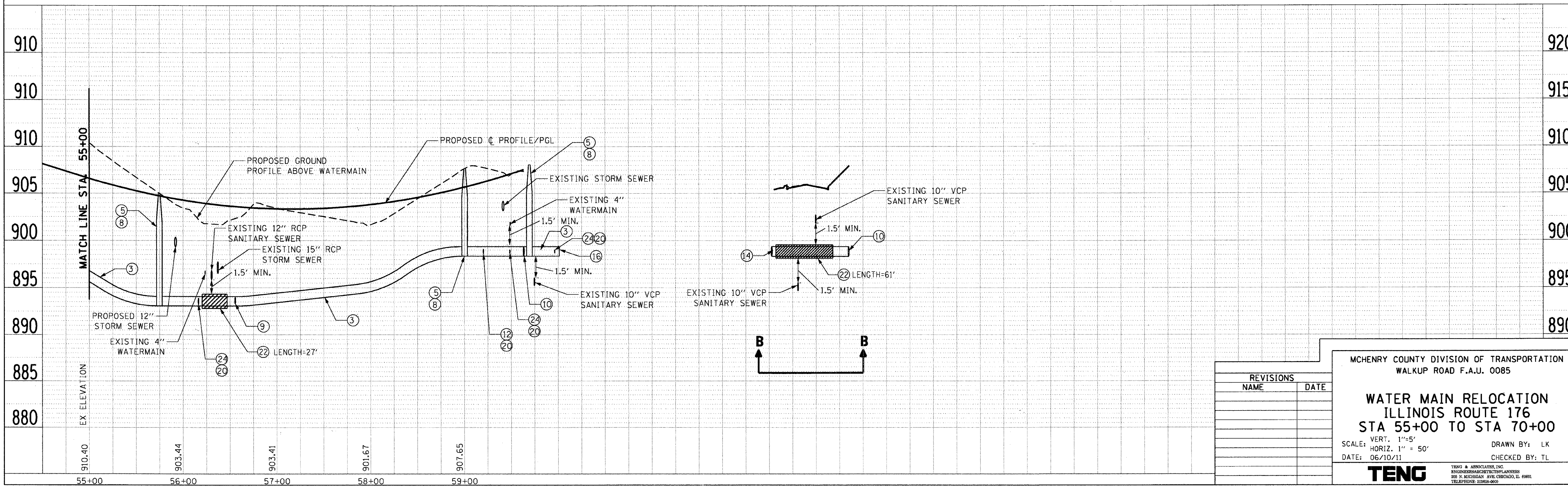


REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

WATER MAIN RELOCATION ILLINOIS ROUTE 176 STA 55+00 TO STA 70+00

SCALE: VERT. 1"=5' HORIZ. 1" = 50'
DATE: 06/10/11
DRAWN BY: LK
CHECKED BY: TL

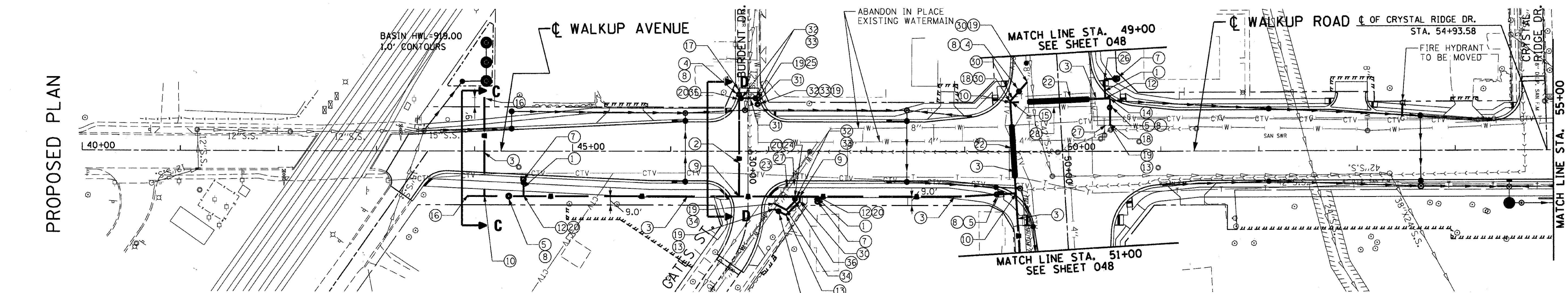
TENG
TENG & ASSOCIATES, INC.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	050
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

PROPOSED PLAN



LEGEND

1. DUCTILE IRON WATER MAIN 6"
2. DUCTILE IRON WATER MAIN 8"
3. DUCTILE IRON WATER MAIN 12"
4. WATER VALVES 8"
5. WATER VALVES 12"
6. FIRE HYDRANT EXTENSION
7. FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX
8. VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID
9. DUCTILE IRON WATER MAIN TEE, 12" X 8"
10. DUCTILE IRON WATER MAIN TEE, 12" X 12"
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16. DUCTILE IRON WATER MAIN FITTINGS - 12" PLUG (CAP)
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18. DUCTILE IRON WATER MAIN REDUCER 12" X 8"
19. CONNECTION TO EXISTING WATER MAIN
20. WITH FLANGE
21. WATER MAINLINE STOP 8"
22. STEEL CASING PIPE, AUGERED AND JACKED, 24"
23. CUT AND CAP EXISTING 4" WATER MAIN
24. DUCTILE IRON WATER MAIN TEE, 12" X 4"
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27. SEAL EXISTING 8" WATER MAIN (SEE NOTE 3 SHEET 050)
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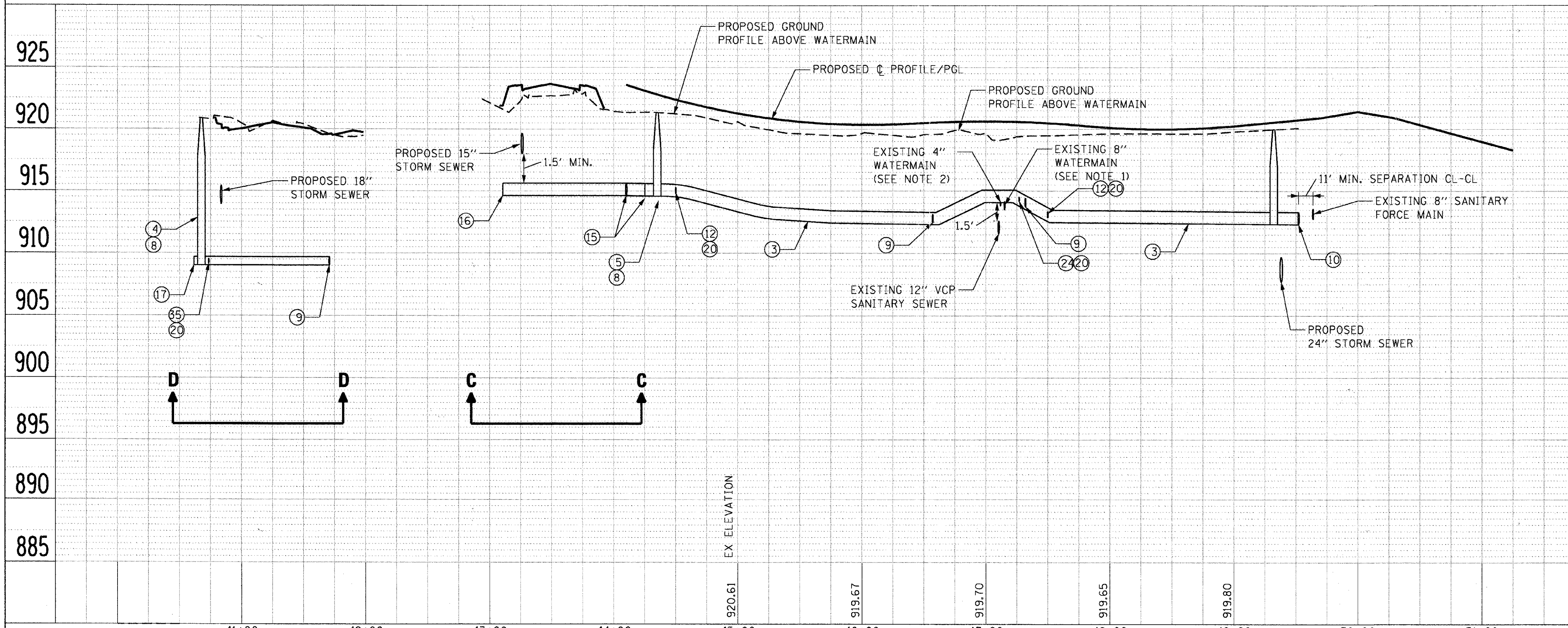


NOTE:

1. EXISTING WATER MAIN TO BE CUT AND REMOVED BETWEEN PROPOSED "CONNECTION TO EXISTING WATER MAIN" ON THE EAST AND A POINT 10' FROM THE PROPOSED 12" WATER MAIN ON THE WEST AT THE LOCATION OF "SEAL EXISTING 8" WATER MAIN"

2. EXISTING WATER MAIN TO BE CUT AND REMOVED BETWEEN PROPOSED "CONNETION TO EXISTING WATER MAIN" ON THE EAST AND A POINT 10' FROM THE PROPOSED 12" WATER MAIN ON THE WEST AT THE LOCATION OF "CUT AND CAP EXISTING 4" WATER MAIN"

3. ALL WATER MAIN PIPE OPENINGS, IN EXISTING 4" AND 8" WATER MAIN TO BE ABANDONED, SHALL BE SECURELY SEALED WITH CLASS SI CONCRETE OR BRICK AND MORTAR. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR DUCTILE IRON WATER MAIN 12"

4. EXISTING 8" WATER MAIN TO BE ABANDONED SHALL BE FILLED WITH CONTROLLED LOW-STRENGTH MATERIAL (CLSM). THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR "ABANDON EXISTING WATER MAIN, FILL WITH CLSM"

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

WATER MAIN RELOCATION WALKUP ROAD STA 40+00 TO STA 55+00

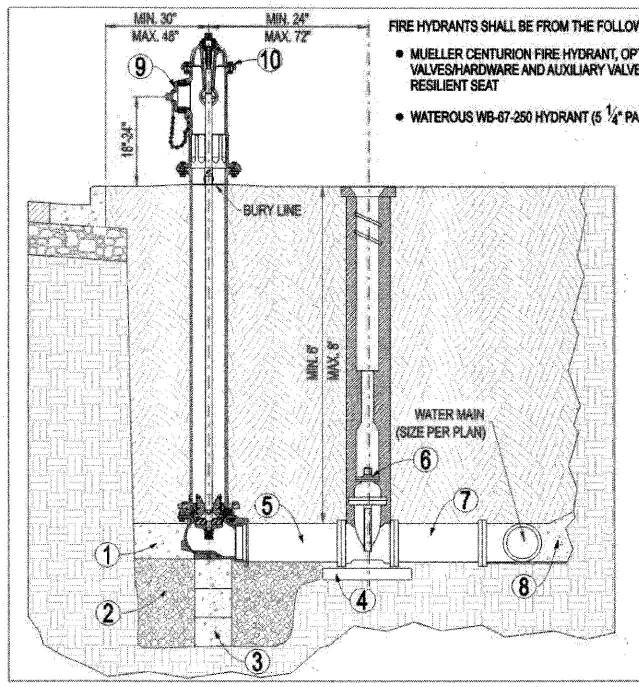
SCALE: VERT. 1" = 5' HORIZ. 1" = 50'
DRAWN BY: LK
DATE: 06/10/11
CHECKED BY: TL

TENG
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS 205 N MICHIGAN AVE CHICAGO, IL 60601

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	051
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

FIRE HYDRANT (UW-06)



FIRE HYDRANTS SHALL BE FROM THE FOLLOWING LIST, AS APPROVED BY THE CITY:

- MUELLER CENTURION FIRE HYDRANT, OPT-094 (5 1/4" BARREL) WITH MUELLER VALVES/HARDWARE AND AUXILIARY VALVE 6" GATE VALVE NO. 2360-23-9020 MODIFIED WEDGE RESILIENT SEAT
- WATEROUS WB-67-250 HYDRANT (5 1/4" PACER) WITH SERIES 2500-1 RESILIENT WEDGE GATE VALVE

1. PROVIDE CLASS SI CONCRETE BASE AND BLOCKING AGAINST UNDISTURBED EARTH
2. DRAIN SUMP TO BE 3/4 CUBIC YARD OF 3/4" WASHED STONE
3. CONCRETE SUPPORT
4. CONCRETE BLOCK OR BRICK SUPPORT
5. PIPE AS REQUIRED TO MAINTAIN 24" SEPARATION AS SHOWN (DIRECT MECHANICAL JOINT CONNECTION IF APPROVED BY CITY)
6. RUBBER VALVE BOX STABILIZER
7. USE "CORTEN" STEEL TIE RODS BETWEEN AUXILARY VALVE AND WATER MAIN (STAINLESS STEEL MAY BE REQUIRED BY THE CITY ENGINEER). ANY DISTANCE GREATER THAN 30" SHALL BE RODDED TO MEGA-LUG FLANGE. NO COUPLINGS ARE PERMITTED IN RODS.
8. CONCRETE BLOCKING CAST IN PLACE 3000 P.S.I.
9. 4 1/2" PORT TO FACE PAVEMENT OR AS DIRECTED BY CITY ENGINEER
10. ALL NEWLY INSTALLED HYDRANTS MUST BE TOP COATED WITH RUST-OLEUM FIRE HYDRANT ENAMEL (COLOR = FIRE HYDRANT RED)
11. MIN. 48" BETWEEN HYDRANT AND ANY VERTICAL OBSTRUCTIONS.
12. MIN. 72" BETWEEN HYDRANT AND ANY LANDSCAPING WITH A MATURE HEIGHT GREATER THAN 12".
13. ALL VALVE AND HYDRANT HARDWARE MUST BE STAINLESS STEEL INCLUDING NUTS, BOLTS, AND WASHERS.

Approved: City Engineer
Victor C. Ramirez, P.E.
Director of Engineering and Building

Drawing Name: FIRE HYDRANT
Drawing Number: UW-06
Date: 11/2/2007
Drawn: EM Checked: JN

CRYSTAL LAKE ILLINOIS Engineering Division

L:\ENGINEERING AND BUILDING\ENGINEERING\DETAILS AND STANDARDS\

STANDARD VALVE VAULT (UW-01)

NOTE:
ALL MANHOLES MUST BE DAMP PROOF PER IDOT SPECIFICATIONS 1060 "WATER PROOFING MATERIALS"

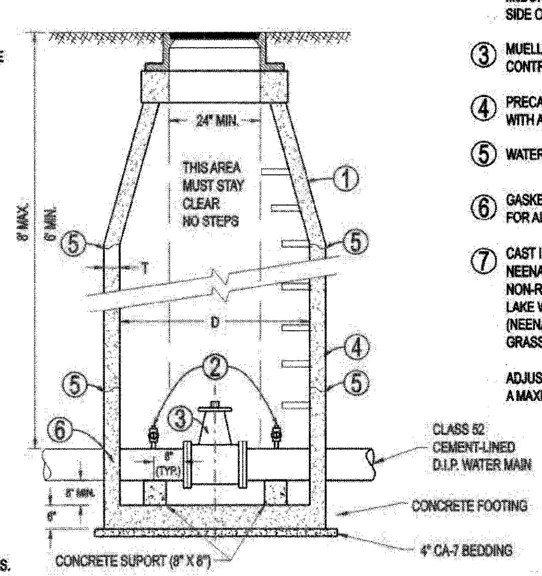
ALL LIDS TO BE USED ON WATER SYSTEM STRUCTURE SHALL BEAR THE WORDS "CITY OF CRYSTAL LAKE WATER".

DRAIN FOR VALVE VAULT SHALL BE CONSTRUCTED ONLY WHEN SHOWN ON THE PLANS.

FRAME AND RING(S) TO BE SET IN MORTAR BED OR SEALED WITH A PREFORMED BITUMEN SEAL (E-Z-STICK OR APPROVED EQUAL).

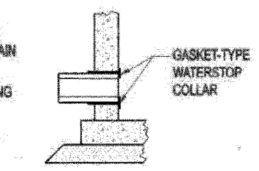
FOR PRESSURE CONNECTION, SEE DETAIL UW-2.

DIAMETER OF WATER MAIN	D	T
8 INCHES AND OVER	5 FT.	5"



1. CONCENTRIC CONES REQUIRED
2. 1" (PREFERRED, 3/4" MIN.) MUELLER, A.Y. McDONALD, OR FORD CORPORATION STOP EACH SIDE OF VALVE MUST BE A COMPRESSION FITTING.
3. MUELLER 2360-23-9020 OR AMERICAN FLOW CONTROL 2500-1 RESILIENT SEAT GATE VALVE
4. PRECAST CONCRETE MANHOLE SECTIONS WITH A MINIMUM THICKNESS OF 5"
5. WATERTIGHT JOINT
6. GASKET-TYPE WATERSTOP COLLAR FOR ALL WATER MAIN CONNECTIONS
7. CAST IRON MANHOLE FRAME & COVER SIMILAR TO NEENAH R-1712, OR EQUAL WITH STANDARD DUTY, NON-ROCKING TYPE LIDS WITH "CITY OF CRYSTAL LAKE WATER" CAST INTO LID. (NEENAH R-2535, OR EQUAL MAY BE USED IN GRASSY AREAS)

ADJUSTING RING HEIGHT NOT TO EXCEED 8" WITH A MAXIMUM OF THREE (3) ADJUSTMENT RINGS.



NOTE: ALL VALVE HARDWARE MUST BE STAINLESS STEEL INCLUDING NUTS, BOLTS & WASHERS.

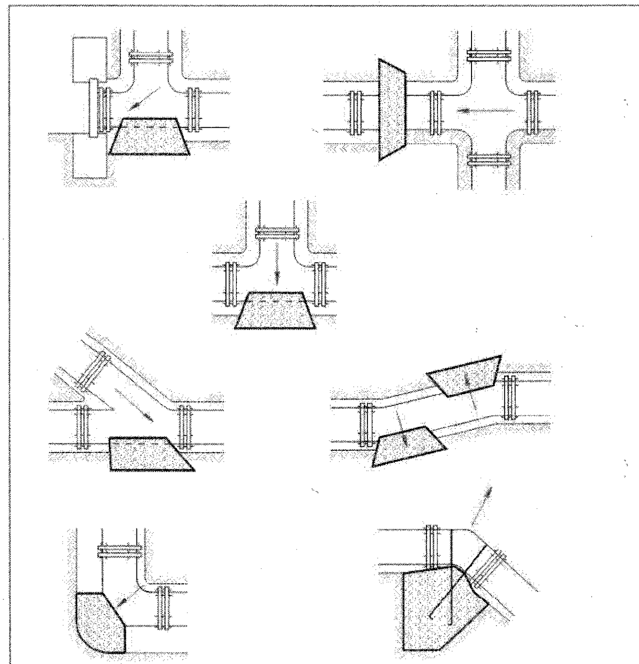
Approved: City Engineer
Victor C. Ramirez, P.E.
Director of Engineering and Building

Drawing Name: STANDARD VALVE VAULT
Drawing Number: UW-01
Date: 4/15/2007
Drawn: EM Checked: JN

CRYSTAL LAKE ILLINOIS Engineering Division

L:\ENGINEERING AND BUILDING\ENGINEERING\DETAILS AND STANDARDS\

THRUST BLOCK INSTALLATION (UW-03)



BEARING AREA (SQ. FT.)

PIPE SIZE	TEE/PLUG	90°	45°	21 1/2°	11 1/4°
6	4	2	1	1	1
8	6	4	3	1	1
10	7	5	3	2	1
12	8	6	4	3	2
14	12	9	6	4	3
16	15	12	7	5	3
18	18	15	9	5	4
24	40	30	15	10	5

NOTES:

ALL BLOCKING SHALL BE POURED CLASS SI CONCRETE AGAINST UNDISTURBED EARTH.

ALL BENDS OR ELBOWS GREATER THAN 11 1/4° SHALL HAVE THRUST BLOCKING. FORM AS TO NOT COVER BOLTS.

IN LEU OF THRUST BLOCKING "MEGA LUG" (EBAA) JOINT RESTRAINTS OR APPROVED EQUAL CAN BE USED AS APPROVED BY THE ENGINEER.

Approved: City Engineer
Victor C. Ramirez, P.E.
Director of Engineering and Building

Drawing Name: THRUST BLOCK INSTALLATION
Drawing Number: UW-03
Date: 4/15/2007
Drawn: EM Checked: JN

CRYSTAL LAKE ILLINOIS Engineering Division

L:\ENGINEERING AND BUILDING\ENGINEERING\DETAILS AND STANDARDS\

STANDARD NOTES AND SPECIFICATIONS (GE-02d)

WATER MAIN:

1. Thrust blocking shall be installed on water mains at all bends, tees, elbows, etc. except as noted below.
2. Thrust blocks not permitted with 45° vertical bends in water main □ these shall be restrained with □Mega-Lug□ or equivalent.
3. Water main shall be ductile iron pipe, Class 52 conforming to A.N.S.I. A-21.51 or AWWA C-151.
4. Gaskets and cast iron fittings shall conform to A.N.S.I. A-21.11 or AWWA C-110 and C-111 water main shall be cement lined in conformance with A.N.S.I. A-21.4 or AWWA C-104.
5. Minimum cover from finished grade to top of water main shall be six (6) feet; Maximum cover shall be eight (8) feet.
6. Water Main Taps: an Illinois licensed plumber is required for any water main tap.
7. All water mains shall be subjected to a pressure test and a separate leakage test at system pressure for 24 hours by the Contractor. Hydrostatic pressure test and leakage shall be based on 125 psi for two (2) hours. Water mains shall be chlorinated in accordance with the Standard Specifications.
8. The Underground Contractor shall consider incidental to the contract any chlorination and testing of existing water main where connections to and conclusion of such mains is indicated on the drawings. In the event that the pressure attributable to defective original workmanship and material, then the Contractor shall be entitled to additional payment for correcting the deficiencies.

[illegible]:

1. [illegible] subgrades and bases shall be proof-rolled and approved by the Engineering Di[illegible] base or binder installation.
2. [illegible] proposed pavements shall be finished by the Excavation Co[illegible] within 0.1 [illegible] minus, of plan elevation.
3. The Pav[illegible] tor shall ensure that the subgrade has been pro[illegible] red and that the finished [illegible] rade elevation has been graded within the [illegible] allowed in these specific[illegible] ss the Paving Contractor advises th[illegible] engineer in writing prior to [illegible] for base course construction, it is [illegible] that the Contractor has ap[illegible] accepts responsibility for th[illegible]
4. For the purpose of prov[illegible] cap accessibility a[illegible] g with the American Disability Act and City Sta[illegible] bs shall be d[illegible] locations where public walks or pedestrian paths in[illegible] lines at [illegible] sections and other locations as directed.
5. ¾ inch thick premoulded fibre expa[illegible] wo (2) No. 4 plain round steel dowel bars shall be installed at designated i[illegible] at all P.C., P.T., curb returns and at the end of each pour. Alternate end[illegible] rs shall be greased and fitted with metal expansion tubes.
6. ¾ inch thick fibre expansion [illegible] be used [illegible] se where the sidewalk coincides with the curb an[illegible] ontraction joi[illegible] saw cut at designated intervals in the curb. Th[illegible] ese joints shall b[illegible] d as incidental to the cost of the contract.
7. All poured in pla[illegible] curb and gutter shall incorporat[illegible] 4 reinforcing bars installed [illegible] e curb and gutter crosses utility servi[illegible] cost of which shall [illegible] red incidental to the cost of concrete curb [illegible]
8. Sidew[illegible] required) shall be of the thickness and dimensions [illegible] the con[illegible] ns. All sidewalk concrete shall be a minimum of 6.1 bag [illegible] c[illegible] rete) and shall develop a minimum of 3,500 psi compressive [illegible] wenty [illegible] days. Contraction joints shall be set at four (4) foot centers, and o[illegible] inch) premoulded fibre expansion joints at forty (40) foot centers and wh[illegible] alk meets the curb or another sidewalk, or at the end of each pour. All sidew[illegible] structed over utility trenches and/or abutting driveway aprons shall be reinforced [illegible] hree (3) No. 4 reinforcing bars (10 foot minimum length).

Approved: City Engineer
Victor C. Ramirez, P.E.
Director of Engineering and Building

Drawing Name: STANDARD NOTES AND SPECIFICATIONS
Drawing Number: GE-02d
Date: 6/1/2007
Drawn: EM Checked: LZ

CRYSTAL LAKE ILLINOIS Engineering Division

L:\ENGINEERING AND BUILDING\ENGINEERING\DETAILS AND STANDARDS\

WATER MAIN GENERAL NOTES:

1. THRUST BLOCKING SHALL BE INSTALLED ON WATER MAINS AT ALL BENDS, TEES, ELBOWS, ETC. EXCEPT AS NOTED BELOW. MEGA-LUG FITTINGS OR CITY APPROVED EQUAL MAY BE USED IN LIEU OF CONCRETE THRUST BLOCKING.
2. THRUST BLOCKS NOT PERMITTED WITH ANY VERTICAL BENDS IN WATER MAIN; THESE SHALL BE RESTRAINED WITH MEGA-LUG FITTINGS OR CITY APPROVED EQUAL.
3. WATER MAIN SHALL BE DUCTILE IRON PIPE, CLASS 52 CONFORMING TO A.N.S.I. A-21.51 OR AWWA C-151.
4. GASKETS AND CAST IRON FITTINGS SHALL CONFORM TO A.N.S.I. A-21.11 OR AWWA C-110 AND C-111
5. WATER MAIN SHALL BE CEMENT LINED IN CONFORMANCE WITH A.N.S.I. A-21.4 OR AWWA C-104.
6. MINIMUM COVER FROM FINISHED GRADE TO TOP OF WATER MAIN SHALL BE SIX (6) FEET; MAXIMUM COVER SHALL BE EIGHT (8) FEET OR AS NOTED ON THE PLAN.
7. WATER MAIN TAPS: AN ILLINOIS LICENSED PLUMBER IS REQUIRED TO PERFORM ANY WATER MAIN TAPS.
8. ALL WATER MAINS SHALL BE SUBJECTED TO A PRESSURE TEST AND A SEPARATE LEAKAGE TEST AT SYSTEM PRESSURE FOR 24 HOURS BY THE CONTRACTOR. HYDROSTATIC PRESSURE TEST AND LEAKAGE SHALL BE BASED ON 125 PSI FOR TWO (2) HOURS. WATER MAINS SHALL BE CHLORINATED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
9. THE UNDERGROUND CONTRACTOR SHALL CONSIDER INCIDENTAL TO THE CONTRACT ANY CHLORINATION AND TESTING OF EXISTING WATER MAIN WHERE CONNECTIONS TO AND CONCLUSION OF SUCH MAINS IS INDICATED ON THE DRAWINGS. IN THE EVENT THAT THE PRESSURE ATTRIBUTABLE TO DEFECTIVE ORIGINAL WORKMANSHIP AND MATERIAL, THEN THE CONTRACTOR SHALL BE ENTITLED TO ADDITIONAL PAYMENT FOR CORRECTING THE DEFICIENCIES.
10. 1" MINIMUM WATER SERVICE SIZE.
11. ALL CORPORATION STOPS AND CURB STOPS SHALL BE COMPRESSION FITTINGS.
12. WATER MAIN WITHIN CASING SHALL USE FORD UNI-FLANGE SERIES 1450 WEDGE ACTION RESTRAINER, CASCADE CASING SPACERS, AND CASCADE CCES CASING END SEALS.
13. ALL DUCTILE IRON WATER MAIN SHALL BE POLYETHYLENE ENCASED. POLYETHYLENE ENCASEMENT MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF AWWA C-105 FOR TUBE TYPE INSTALLATION AND 8 MIL NOMINAL FILM THICKNESSES

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

WATER MAIN DETAILS
SHEET 1 OF 2

SCALE: N.T.S. DRAWN BY: RJS
DATE: 04/15/11 CHECKED BY: MCD

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	052
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

UW-09

PROJECT NAME: ____________

CONTRACTOR: ____________

WITNESS: ____________

LINE PRESSURIZED DATE: ______ TIME: ______ am / pm

LINE TESTED DATE: ______ TIME: ______ am / pm

PRESSURE TEST

	2-HOUR	24-HOUR
TOTAL LENGTH OF MAIN (FEET)		
PIPE DIAMETER (INCHES)		
TEST PRESSURE (PSI)		
TOTAL ALLOWABLE LEAKAGE IN ONE HOUR (GALLONS)		
TOTAL ALLOWABLE LEAKAGE IN TIME FRAME (GALLONS)		

CALCULATION FOR ACTUAL WATER VOLUME LOSS

	2-HOUR	24-HOUR
SURFACE AREA OF SUPPLY VESSEL (FEET)		
MAXIMUM ALLOWABLE DROP IN WATER LEVEL (FEET)		
ACTUAL DROP IN WATER LEVEL (FEET)		
GALLONS		
INITIAL METER READING		
24TH HOUR METER READING		
TOTAL ALLOWABLE LEAKAGE (GALLONS)		
ACTUAL LEAKAGE (GALLONS)		
PASS OR FAIL		

LOCATION DIAGRAM:

INDICATE NORTH

NOTES:

Approved: City Engineer

Victor C. Ramirez, P.E.
Director of Engineering and Building

Drawing Name: WATER MAIN TEST REPORT

Drawing Number: UW-09

Date: 4/1/2007

Drawn: EM Checked: LZ

CRYSTAL LAKE ILLINOIS Engineering Division

L:\ENGINEERING AND BUILDING\ENGINEERING\DETAILS AND STANDARDS\

UW-08

CITY OF CRYSTAL LAKE WATER MAIN CHLORINATION SPECIFICATIONS:

1. DISINFECTION OF WATER MAINS SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION, CURRENT EDITION
2. THE CITY ENGINEERING DIVISION AND WATER DIVISION SHALL BE NOTIFIED 48 HOURS IN ADVANCE FOR SCHEDULING OF ANY TESTING CHLORINATING, FLUSHING, OR SAMPLING.
3. ONLY CITY WATER DIVISION PERSONNEL MAY OPERATE WATER VALVES ON LIVE MAINS.
4. A WATER VALVE JUMPER IS REQUIRED TO MAINTAIN PRESSURE ON THE CHLORINATED LINES DURING THE SAMPLING PROCEDURE FOR PROPER INSTALLATION AND REQUIREMENTS SEE THE STANDARD WATER VALVE JUMPER DETAIL.
5. WATER MAINS SHALL BE FLUSHED WITH A MINIMUM VELOCITY OF 2.5 FPS.
6. THE INITIAL CHLORINE CONCENTRATION SHALL BE 50 mg/L WITH A MINIMUM 24 HOUR RESIDUAL OF 25 mg/L.
7. THE METHOD OF CHLORINE APPLICATION SHALL BE APPROVED BY THE CITY:
   a. LIQUID CHLORINE W/CHLORINATING DEVICE WITH BACKFLOW PREVENTER.
   b. CHLORINE BEARING COMPOUNDS IN WATER.
   c. TABLET DISINFECTION.
8. ALL NEW VALVES AND HYDRANTS SHALL BE OPERATED WHILE LINE IS BEING CHLORINATED.
9. THE CITY ENGINEERING DIVISION SHALL DETERMINE LOCATION AND QUANTITY OF CORPORATION STOPS FOR FLUSHING AND CHLORINATING.
10. THE FINAL FLUSHING RESIDUAL IN THE NEW CHLORINATED LINES SHALL BE BETWEEN 0.2 AND 2.0 mg/L.
11. ALL WATER SAMPLES SHALL BE COLLECTED ON TWO (2) CONSECUTIVE DAYS AND PASS BACTERIOLOGICAL TEST RESULTS. IN THE EVENT THAT THE FIRST SET OF SAMPLES TAKEN TWO (2) CONSECUTIVE DAYS APART FAIL TO PASS, ANOTHER SET OF SAMPLES MAY BE TAKEN TWO (2) DAYS APART (PER STATE SPECS). IF THE SECOND SET FAILS TO PASS TESTING, THEN THE PROCEDURE MUST BE REPEATED WITH THE MAIN BEING RECHLORINATED, REFLUSHED, AND RESAMPLED.
12. STATE CERTIFIED LAB MUST BE USED FOR SAMPLES.

CHLORINE REQUIREMENTS TO PRODUCE 50 mg/L CONCENTRATION IN 100 FEET OF PIPE-BY DIAMETER

PIPE SIZE IN INCHES	100% CHLORINE, LB.	1% CHLORINE SOLUTION, GALS.
4	0.027	0.33
6	0.061	0.73
8	0.108	1.30
10	0.170	2.04
12	0.240	2.88

NUMBER OF 5-GRAIN HYPOCHLORITE TABLETS REQUIRED FOR A DOSAGE OF 50mg/L PER LENGTH OF PIPE SECTION

PIPE SIZE IN INCHES	LENGTH OF PIPE SECTION IN FEET: UP TO 13	18	20	30	40
2	1	1	1	1	1
4	1	1	2	2	2
6	2	2	3	3	4
8	2	3	5	5	6
10	3	5	7	7	9
12	5	6	10	10	14

Approved: City Engineer

Victor C. Ramirez, P.E.
Director of Engineering and Building

Drawing Name: CHLORINATION SPECIFICATIONS

Drawing Number: UW-08

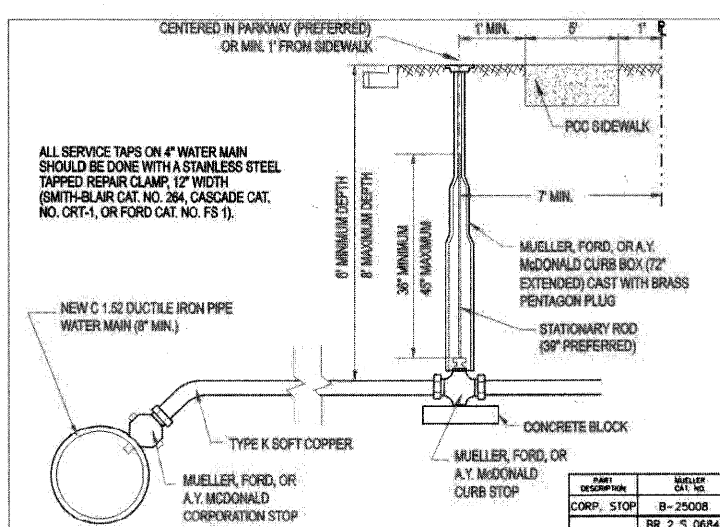
Date: 4/15/2007

Drawn: EM Checked: LZ

CRYSTAL LAKE ILLINOIS Engineering Division

L:\ENGINEERING AND BUILDING\ENGINEERING\DETAILS AND STANDARDS\

UW-04



NOTES:

1. NO CORPORATION STOPS OR CURB BOXES MAY BE LOCATED UNDER PAVED AREAS INCLUDING DRIVES AND SIDEWALKS
2. ALL WATER MAIN HARDWARE SHALL BE MUELLER, A.Y. McDONALD, OR FORD.
3. SERVICE TO BE CONTINUOUS WITHOUT JOINTS FROM CORPORATION STOP TO CURB STOP.
4. MULTIPLE TAPS INTO MAIN SHALL BE NO CLOSER THAN 2' APART.
5. TRENCH FROM MAIN TO BACK OF SIDEWALK TO BE COMPACTED TRENCH BACKFILL.
6. NO FLARE FITTINGS WILL BE ACCEPTED.
7. ALL CURB BOX ADJUSTMENTS TO BE MADE WITH GALVANIZED PIPE AND COUPLINGS (SCREWED ON)
8. ALL COPPER TO BE REAMED BOTH INSIDE AND OUTSIDE AFTER CUTTING.
9. B-BOXES (TWO OR MORE) FOR ALL MULTI-UNIT BUILDINGS MUST BE CLEARLY AND PERMANENTLY LABELED BY WELDING THE UNIT NUMBER/LETTER ONTO THE B-BOX TOP

PART DESCRIPTION	MUELLER CAT. NO.	FORD CAT. NO.	A.Y. McDONALD CAT. NO.	SERVICE SIZE
CORP. STOP	B-25008	FB1000-Q	4701BQ	
DOUBLE-STRAP SERVICE SADDLE	BR 2 S 0684 CC	202BS-750-CC	3855 6	
	BR 2 S 0899 CC	202BS-962-CC	3855 8	
	BR 2 S 1104 CC	202BS-1212-CC	3855 10	
	BR 2 S 1314 CC	202BS-1438-CC	3855 12	
STOP CURB	B-25155	B44-M-Q	6104Q	
CURB BOX	H-10300	EM2-60-56	5614	1" & 1.25" A.Y. McD.
	H-10300-99002	EM2-60-57	5615	1.25" FORD, 1.5" & 2"
STATIONARY ROD	84247	ROD-36	5660	

Approved: City Engineer

Victor C. Ramirez, P.E.
Director of Engineering and Building

Drawing Name: WATER SERVICE INSTALLATION

Drawing Number: UW-04

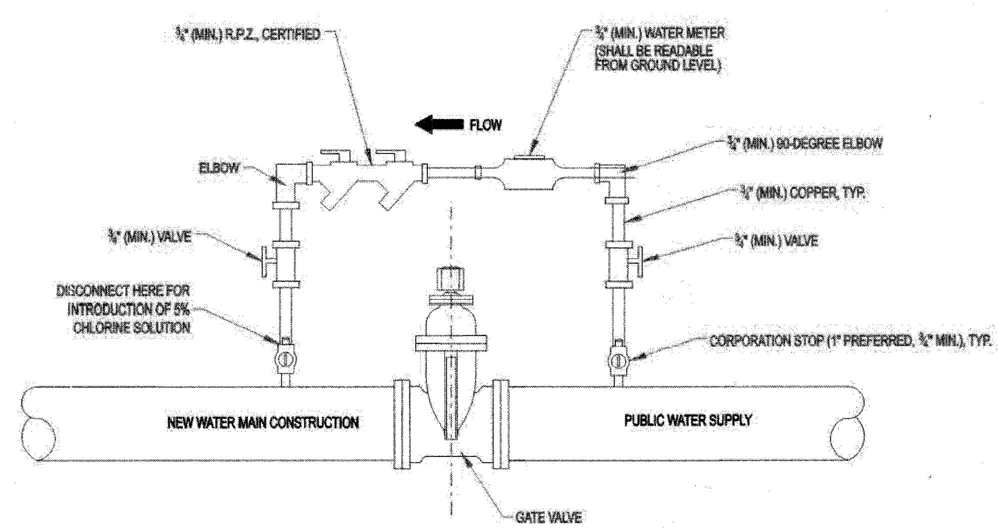
Date: 4/15/2007

Drawn: EM Checked: JN

CRYSTAL LAKE ILLINOIS Engineering Division

L:\ENGINEERING AND BUILDING\ENGINEERING\DETAILS AND STANDARDS\

UW-05



NOTE:
VALVE JUMPER MUST BE ABOVE MANHOLE LID.

Approved: City Engineer

Victor C. Ramirez, P.E.
Director of Engineering and Building

Drawing Name: WATER VALVE JUMPER

Drawing Number: UW-05

Date: 4/15/2007

Drawn: EM Checked: JN

CRYSTAL LAKE ILLINOIS Engineering Division

L:\ENGINEERING AND BUILDING\ENGINEERING\DETAILS AND STANDARDS\

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

WATER MAIN DETAILS SHEET 2 OF 2

SCALE: N.T.S. DRAWN BY: RJS

DATE: 04/15/11 CHECKED BY: MCD

TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE: 312616-0000

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	053
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

MOT GENERAL NOTES

ALL OF THE TRAFFIC CONTROL DEVICES SHALL BE IN PLACE BEFORE CONSTRUCTION IS STARTED. TEMPORARY TRAFFIC SIGNALS SHALL BE IN PLACE AT THE INTERSECTIONS NOTED ON THE PLANS.

TEMPORARY INTERSECTION SIGNALIZATION SHALL BE ADJUSTED TO ACCOMMODATE THE VARIOUS STAGE OF CONSTRUCTION SHOWN. THE TRAFFIC CONTROL PLANS SHALL SERVE AS A GUIDE FOR THE SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT.

A MINIMUM OF ONE (1) LANE (11 FEET) IN EACH DIRECTION SHALL BE KEPT OPEN TO TRAFFIC DURING NON-WORKING HOURS; EXCEPT THAT A MINIMUM OF ONE (1) LANE (10 FEET) IN EACH DIRECTION SHALL BE KEPT OPEN TO TRAFFIC DURING NON-WORKING HOURS ALONG WALKUP RD FROM STA. 57+00 TO STA. 81+79 AS SHOWN ON THE PLANS.

REMOVE ALL EXISTING PAVEMENT MARKINGS CONFLICTING WITH REVISED TRAFFIC PATTERNS. TYPE III MARKING TAPE SHALL BE USED ON THE FINAL WEARING SURFACE OR ON THE EXISTING PAVEMENT TO REMAIN WHEN THE TEMPORARY PAVEMENT MARKING WILL CONFLICT WITH THE PERMANENT PAVEMENT MARKING SUCH AS ON TAPERS OR LANE SHIFTS.

THE CONTRACTOR SHALL PROVIDE INFORMATION SIGNS ON TEMPORARY SUPPORTS FOR ALL COMMERCIAL AND PRIVATE DRIVEWAYS. THESE SIGNS SHALL BE WHITE ON GREEN IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THIS WORK WILL BE PAID FOR PER DISTRICT ONE DETAIL TC-26.

PROVIDE TEMPORARY BITUMINOUS RAMP WEDGE TO TRANSITION THE DIFFERENTIAL ELEVATIONS CAUSED BY STAGED CONSTRUCTION BETWEEN THE NEW CONSTRUCTION AND THE EXISTING PAVEMENT. ANY PAVEMENT DROP-OFFS GREATER THAN 3 INCHES IMMEDIATELY ADJACENT TO TRAFFIC SHALL NOT BE LEFT OVERNIGHT. PROVIDE TEMPORARY BITUMINOUS RAMP WEDGE OR OTHER MITIGATING MEASURES APPROVED BY THE ENGINEER.

EXISTING TRAFFIC CONTROL SIGNS & MESSAGES THAT ARE IN CONFLICT WITH THE PROPOSED MAINTENANCE OF TRAFFIC SHALL BE TEMPORARILY COVERED OR MODIFIED WITH TEMPORARY OVERLAY AS SHOWN IN THE PLANS AND DIRECTED BY THE ENGINEER.

THE FOLLOWING TABLE PROVIDES THE NECESSARY TREATMENT REQUIRED BY THE CONTRACTOR TO MINIMIZE DROP-OFF EXPOSURE:.

DROP-OFF AT EDGE OF PAVEMENT

DROP-OFF LOCATION (FROM EDGE OF PAVEMENT)	SPEED MPH (5)	DROP-OFF HEIGHT AND TYPE (INCHES)	TREATMENT REQUIRED
<= 3 FT (1) (2)	ALL	<=1	NONE
		>1, <=3	LOW SHOULDER SIGNS (2 MILE SPACING)
	<45	> 3, <= 18	CHANNELIZING DEVICES PER PLAN SPACING
	>=45	>3, <=12	CHANNELIZING DEVICES PER PLAN SPACING
	<45	> 18, <= 24 FOR <0.5 MILES OR <48 HOURS	CHANNELIZING DEVICES PER PLAN SPACING (4)
	>=45	> 12, <= 18 FOR <0.5 MILES OR <48 HOURS	CHANNELIZING DEVICES PER PLAN SPACING (4)
	ALL	>18, <=24	ADJACENT LANE CLOSURE
	ALL	> 24	ADJACENT LANE CLOSURE
> 3 FT <= 8 FT (3)	ALL	<=1	NONE
	ALL	>1, <=3	LOW SHOULDER SIGNS (2 MILE SPACING)
	ALL	> 3, <= 24	CHANNELIZING DEVICES PER PLAN SPACING
	ALL	> 24	ADJACENT LANE CLOSURE
> 8 FT TO 13 FT (3)	ALL	> 12, <= 24	CHANNELIZING DEVICES PER PLAN SPACING
	ALL	> 24	ADJACENT LANE CLOSURE

(1) CHANNELIZING DEVICES ARE TO BE PLACED AT SAME LEVEL AS TRAVELING LANE OR SHOULDER PROFILE.

(2) CHANNELIZING DEVICES MAY BE PLACED AT THE DROP-OFF ELEVATION TO PRESERVE LANE WIDTH. THE REFLECTIVE AREA AND WARNING LIGHT SHALL BE RAISED TO THE ELEVATION ABOVE THE TRAVELING LANE OR SHOULDER PROFILE AS REQUIRED BY STANDARD 701901.

(3) CHANNELIZING DEVICES ARE TO BE PLACED AT THE SAME LEVEL AS SIDE SLOPE PROFILE TO BE FULLY VISIBLE.

(4) DROP OFFS GREATER THAN 18 IN SHALL NOT BE EXPOSED TO TRAFFIC FOR GREATER THAN 48 HRS.

(5) POSTED REGULATORY SPEED IN WORK ZONE DURING THE WORK ACTIVITY.

MAINTENANCE OF TRAFFIC AND CONSTRUCTION STAGING

PRE-STAGE - IL RTE 176 AND WALKUP ROAD SOUTH OF REDBIRD LANE

1. MAINTAIN EXISTING TRAFFIC LANES ON WALKUP ROAD, IL RTE 176, AND ALL SIDE ROADS IN ACCORDANCE WITH STANDARDS AND THE DETAILS SHOWN ON THE PLANS.

2. FURNISH AND INSTALL TEMPORARY TRAFFIC SIGNALS AT IL RTE 176/WALKUP ROAD INTERSECTIONS.

3. COMPLETE CONSTRUCTION OF WATERMAIN WORK ALONG IL RTE 176 AND ALONG WALKUP AVE.

4. BEGIN CONSTRUCTION OF TEMPORARY PAVEMENT WIDENING ON WALKUP ROAD AND IL RTE 176 AS SHOWN ON THE PLANS. PROVIDE TEMPORARY SWALES/DITCHES TO MAINTAIN DRAINAGE. CONSTRUCT STORM SEWER AS NECESSARY TO PROVIDE OUTLET DURING STAGE 1 AND 2. PROVIDE EROSION CONTROL.

5. CONSTRUCT THE PERMANENT STORM SEWER OUTLET TO "VETERAN ACRES POND" IN ACCORDANCE WITH DRAINAGE PLAN SHEET 106 PRIOR TO THE COMPLETION OF ANY OTHER DRAINAGE WORK WITH A DRAINAGE CONNECTION TO THE "VETERAN ACRES POND" STORM SEWER OUTLET.

PRE-STAGE - WALKUP ROAD NORTH OF REDBIRD LANE

1. MAINTAIN EXISTING TRAFFIC LANES ON WALKUP ROAD AND ALL SIDE ROADS IN ACCORDANCE WITH STANDARD 701306, 701326, 701501, AND THE DETAILS SHOWN ON THE PLANS.

2. PROVIDE TEMPORARY SWALES/DITCHES TO MAINTAIN DRAINAGE. INSTALL STORM SEWER TO PROVIDE OUTLET DURING STAGE 1 AND PROVIDE EROSION CONTROL.

STAGE 1- IL RTE 176

1. COMPLETE CONSTRUCTION OF TEMPORARY PAVEMENT WIDENING ON IL RTE 176 AS SHOWN ON THE PLANS. PROVIDE TEMPORARY SWALES/DITCHES TO MAINTAIN DRAINAGE. CONSTRUCT STORM SEWER AS NECESSARY TO PROVIDE OUTLET DURING STAGE 1 AND 2. PROVIDE EROSION CONTROL.

2. FURNISH AND INSTALL TEMPORARY TRAFFIC SIGNALS AT IL RTE 176 AND MAIN STREET.

3. REMOVE THE EXISTING PAVEMENT MARKINGS AND PROVIDE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON THE PLANS. SHIFT THE TRAFFIC ONTO THE TEMPORARY PAVEMENT WIDENING AND EXISTING PAVEMENT IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS.

4. CONSTRUCT PERMANENT PAVEMENT, DRAINAGE DITCHES, STORM SEWERS AND DRAINAGE STRUCTURES, CURB AND GUTTER, AND PARKWAY ALONG EB IL RTE 176 . OMIT CURB AND GUTTER AND DRAINAGE STRUCTURE GRATES AT PROPOSED TEMPORARY PAVEMENT LOCATIONS. PROVIDE EROSION CONTROL.

5. CONSTRUCT TEMPORARY PAVEMENT ON SOUTH SIDE OF IL RTE 176 FOR STAGE 2 TRAFFIC. (SEE IL RTE 176 MOT AND STAGE 2 CONSTRUCTION FOR LOCATIONS OF TEMPORARY PAVEMENT.)

STAGE 1 - WALKUP AVE/WALKUP ROAD FROM SOUTH PROJECT LIMIT TO SOUTH OF REDBIRD LANE

1. COMPLETE CONSTRUCTION OF TEMPORARY PAVEMENT WIDENING ON WALKUP AVE/WALKUP RD AS SHOWN ON THE PLANS. PROVIDE TEMPORARY SWALES/DITCHES TO MAINTAIN DRAINAGE. CONSTRUCT STORM SEWER AS NECESSARY TO PROVIDE OUTLET DURING STAGE 1 AND 2. PROVIDE EROSION CONTROL.

2. FURNISH AND INSTALL SIGNS FOR THE WALKUP ROAD DETOUR ROUTE AS SHOWN ON THE PLANS. CLOSE WALKUP AVENUE FROM IL RTE 176 TO SOUTH PROJECT LIMITS.

3. REMOVE THE EXISTING PAVEMENT MARKINGS AND PROVIDE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON THE PLANS. SHIFT THE TRAFFIC ONTO THE TEMPORARY PAVEMENT WIDENING AND EXISTING PAVEMENT IN ACCORDANCE WITH THE DETAILS ON THE PLANS.

4. CONSTRUCT PERMANENT PAVEMENT, DRAINAGE DITCHES, STORM SEWERS, DRAINAGE STRUCTURES, CURB AND GUTTER. ALONG THE SOUTH LEG OF WALKUP ROAD AND NB WALKUP ROAD NORTH OF IL RTE 176, CONSTRUCT BIKE PATH ALONG NB WALKUP ROAD. PROVIDE EROSION CONTROL.

5. CONSTRUCT RETAINING WALL AND STRUCTURE ALONG VETERAN ACRES PARK AS SHOWN ON THE PLANS. PROVIDE EROSION CONTROL

STAGE 1- WALKUP ROAD FROM STA 225+00 TO NORTH PROJECT LIMIT

1. REMOVE THE EXISTING PAVEMENT MARKINGS AND PROVIDE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON THE PLANS.

2. CONSTRUCT PAVEMENT WIDENING, CURB AND GUTTER, DRAINAGE STRUCTURES AND SHOULDERS ALONG SOUTHBOUND WALKUP ROAD FROM STA 225+00 TO STATION 245+00. COMPLETE THE SAMEWORK FOR NORTHBOUND WALKUP ROAD FROM STA 245+00 TO STA 307+45. PROVIDE EROSION CONTROL.

STAGE 2- IL RTE 176

1. CONTRACTOR SHALL CONSTRUCT TEMPORARY BITUMINOUS RAMP AS DIRECTED BY THE ENGINEER THROUGH THE INTERSECTION OF IL RTE 176 AND WALKUP ROAD TO MEET THE STAGE 1 PAVEMENT ELEVATIONS. THIS OPERATION SHALL BE CARRIED OUT BETWEEN 7:00 PM TO 6:00 AM. IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO SCHEDULE AND STAGE THE CONSTRUCTION AND MAINTENANCE OF TRAFFIC SO THAT CLOSED LANES ARE REOPENED AT THE END OF EACH WORK PERIOD.
AFTER COMPLETING THE RAMP WEDGE, REVISE THE IMPACTED TEMPORARY PAVEMENT MARKINGS. USE DRUMS WITH STEADY BURNING MONO DIRECTIONAL LIGHTS IN LIEU OF BARRICADES OR CONES SPECIFIED IN THE STANDARDS 701501, 701606, 701701. THE RAMP WEDGE WORK WILL BE PAID FOR SEPARATELY AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT, N70 (IL-19) VARIABLE THICKNESS.

2. SHIFT TRAFFIC OVER TO THE STAGE 2 CONFIGURATION IN ACCORDANCE WITH THE PLANS AND STANDARD 701501 AND 701606.

3. CONSTRUCT PERMANENT WESTBOUND PAVEMENT FROM THE INTERSECTION TO THE EAST END OF THE PROJECT. CONSTRUCT DRAINAGE, STORM SEWERS, DRAINAGE STRUCTURES, CURB AND GUTTER, SIDEWALK AND PARKWAY. PROVIDE EROSION CONTROL.

STAGE 2- WALKUP ROAD FROM SOUTH PROJECT LIMIT TO SOUTH OF REDBIRD LANE

1. PLACE TEMPORARY PAVEMENT MARKINGS AS SHOWN ON PLANS. OPEN SOUTH PORTION OF WALKUP ROAD FROM IL RTE 176 TO SOUTH PROJECT LIMITS. MAINTAIN TRAFFIC PATTERN ON WALKUP ROAD NORTH OF IL RTE 176.

2. RECONSTRUCT NE QUADRANT OF IL RTE 176 AND WALKUP ROAD UP TO STA 53+25.

STAGE 2- WALKUP ROAD/ CRYSTAL LAKE ROAD FROM STA 225+00 TO NORTH LIMIT OF PROJECT

1. REMOVE THE EXISTING AND TEMPORARY PAVEMENT MARKINGS AND PROVIDE TEMPORARY PAVEMENT MARKINGS IN ACCORDANCE WITH THE PLANS. SHIFT THE TRAFFIC ONTO THE NEW PAVEMENT WIDENING AND EXISTING PAVEMENT.

2. CONSTRUCT REMAINING PAVEMENT WIDENING, CURB AND GUTTER, DRAINAGE STRUCTURES AND SHOULDERS ALONG NORTHBOUND WALKUP ROAD FROM STA 225+00 TO STATION 245+00. COMPLETE THE SAME WORK FOR SB WALKUP ROAD FROM STA 245+00 TO STA 307+45. PROVIDE EROSION CONTROL.

3. CONSTRUCT PERMANENT TRAFFIC SIGNALS AND LIGHTING.

4. PLACE PERMANENT PAVEMENT MARKING AND FINAL LANDSCAPING.

STAGE 3- IL RTE 176

1. MAINTAIN TRAFFIC FROM PREVIOUS STAGE IN ACCORDANCE WITH THE DETAILS ON THE PLANS.

2. CONSTRUCT PERMANENT WESTBOUND PAVEMENT FROM THE WEST PROJECT LIMITS TO THE INTERSECTION. CONSTRUCT DRAINAGE, STORM SEWERS, DRAINAGE STRUCTURES, CURB AND GUTTER, SIDEWALK AND PARKWAY. PROVIDE EROSION CONTROL.

3. CONSTRUCT RETAINING WALL WITHIN EXISTING DETENTION BASIN FROM STA 45+50 TO STA 47+32.

4. PROVIDE BITUMINOUS SURFACE COURSES ALONG THE PROJECT LIMITS FOR IL RTE 176 IN ACCORDANCE WITH STANDARDS 701501, 701606, 701701. PLACE PERMANENT PAVEMENT MARKING AND FINAL LANDSCAPING.

STAGE 3- WALKUP ROAD FROM SOUTH PROJECT LIMIT TO SOUTH OF REDBIRD LANE

1. SHIFT TRAFFIC OVER TO THE STAGE 3 CONFIGURATION IN ACCORDANCE WITH THE DETAILS ON THE PLANS.

2. CONSTRUCT PERMANENT SOUTHBOUND PAVEMENT FROM THE IL RTE 176 INTERSECTION TO REDBIRD LANE. CONSTRUCT DRAINAGE, STORM SEWERS, DRAINAGE STRUCTURES, CURB AND GUTTER, SIDEWALK AND PARKWAY. PROVIDE EROSION CONTROL.

4. PROVIDE BITUMINOUS SURFACE COURSES IN ACCORDANCE WITH STANDARDS 701501, 701606, 701701.
PLACE PERMANENT PAVEMENT MARKING AND FINAL LANDSCAPING.

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

MAINTENANCE OF TRAFFIC GENERAL NOTES

SCALE: N.T.S. DRAWN BY: TL
DATE: 06/10/11 CHECKED BY: KA

TENG

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ENGINEERS/ARCHITECTS/PLANNERS
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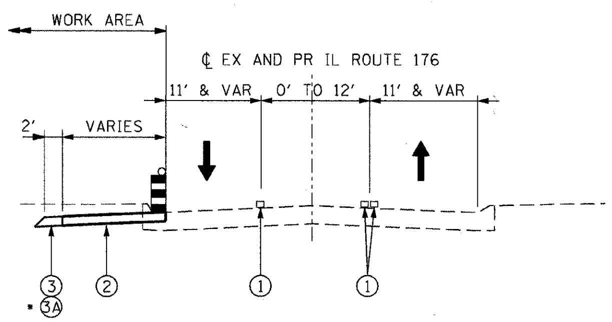
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	054
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

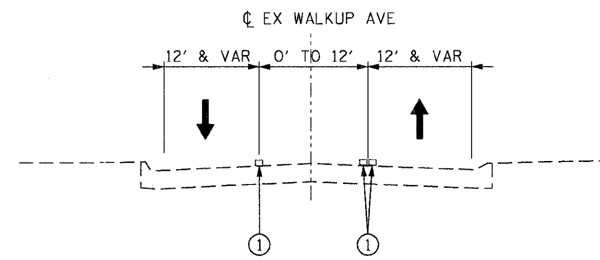
CONTRACT NO: 63522



* SEE PLAN SHEETS FOR LOCATION

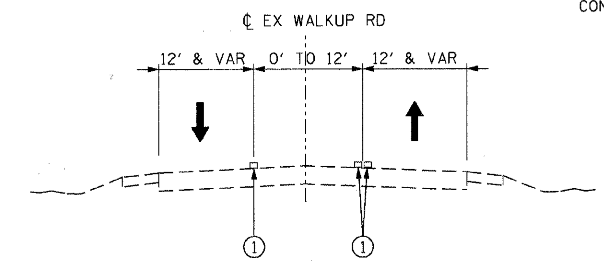
MOT TYPICAL SECTION

PRE STAGE
STA 41+02.05 TO STA 43+30.22
STA 46+32.35 TO STA 50+00.00 (WALKUP RD)
STA 50+21.37 TO STA 54+95.33
STA 60+36.14 TO STA 61+23.17



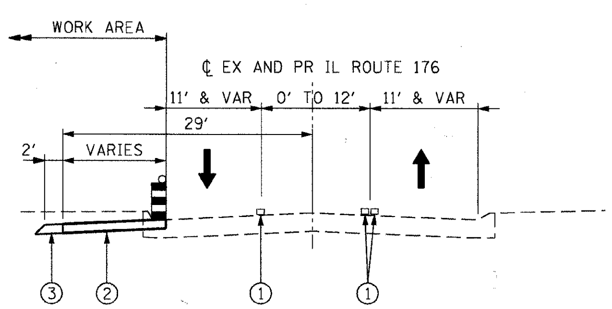
MOT TYPICAL SECTION

PRE STAGE
STA 43+22.55 TO STA 50+00.00



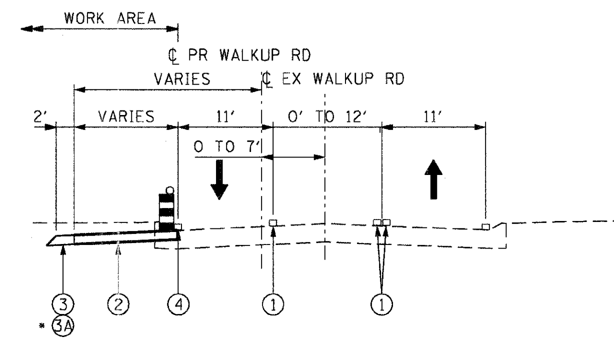
MOT TYPICAL SECTION

PRE STAGE
STA 225+00.00 TO STA 307+45.00



MOT TYPICAL SECTION

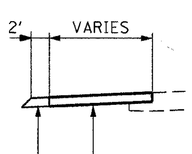
PRE STAGE
STA 54+95.33 TO STA 60+36.14



* SEE PLAN SHEETS FOR LOCATION

MOT TYPICAL SECTION

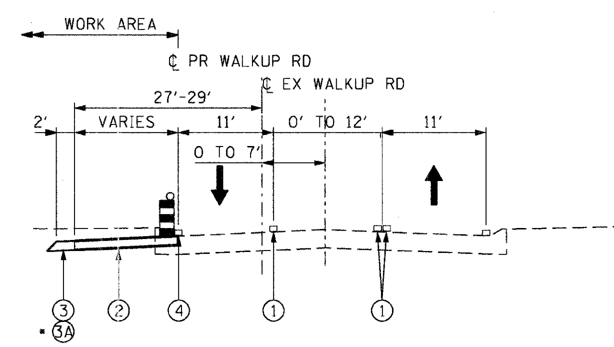
PRE STAGE
STA 50+00.00 TO STA 57+60.56
STA 81+79.16 TO STA 82+78.46 (REDBIRD LN)



2 HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 8"
AGGREGATE SUBBASE, 4"

3 HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 8"
AGGREGATE SUBBASE, 4"

TEMPORARY PAVEMENT DETAIL



* SEE PLAN SHEETS FOR LOCATION

MOT TYPICAL SECTION

PRE STAGE
STA 57+60.56TO STA 81+79.16

LEGEND:

- VERTICAL PANEL W/ STEADY BURNING LIGHT
- DRUM W/ STEADY BURNING LIGHT
- DIRECTION OF TRAFFIC

1. EXISTING PAVEMENT MARKING
2. TEMPORARY PAVEMENT
3. TEMPORARY SHOULDER (PAID AS TEMP PAVEMENT)
3A. COMBINATION CURB & GUTTER, TYPE B-6.24 (TEMPORARY)
4. TEMPORARY PAVEMENT MARKING - 4" (WHITE)
5. TEMPORARY PAVEMENT MARKING - 4" (YELLOW)
6. PROPOSED PAVEMENT MARKING

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

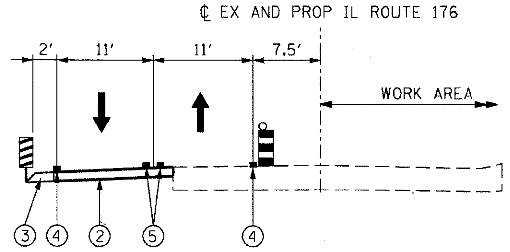
MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS
PRE-STAGE

SCALE: N.T.S. DRAWN BY: TL
DATE: 06/10/11 CHECKED BY: KA

TENG
TENG & ASSOCIATES, INC.

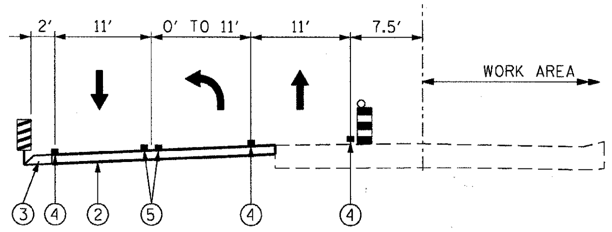
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	055
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



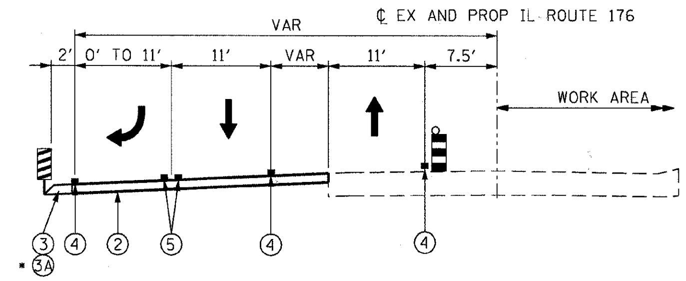
MOT TYPICAL SECTION

STAGE 1
STA 40+88.73 TO STA 45+54.09
STA 54+95.33 TO STA 60+63.86



MOT TYPICAL SECTION

STAGE 1
STA 45+54.09 TO STA 50+00.00 (WALKUP RD)



* SEE PLAN SHEETS FOR LOCATION

MOT TYPICAL SECTION

STAGE 1
STA 50+00.00 (WALKUP RD) TO STA 54+95.33

LEGEND:

- VERTICAL PANEL W/ STEADY BURNING LIGHT
- DRUM W/ STEADY BURNING LIGHT
- DIRECTION OF TRAFFIC

1. EXISTING PAVEMENT MARKING
2. TEMPORARY PAVEMENT
3. TEMPORARY SHOULDER (PAID AS TEMP PAVEMENT)
3A. COMBINATION CURB & GUTTER, TYPE B-6.24 (TEMPORARY)
4. TEMPORARY PAVEMENT MARKING - 4" (WHITE)
5. TEMPORARY PAVEMENT MARKING - 4" (YELLOW)
6. PROPOSED PAVEMENT MARKING

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

MAINTENANCE OF TRAFFIC TYPICAL SECTIONS STAGE 1, SHEET 1 OF 2

SCALE: N.T.S. DRAWN BY: TL
DATE: 06/10/11 CHECKED BY: KA

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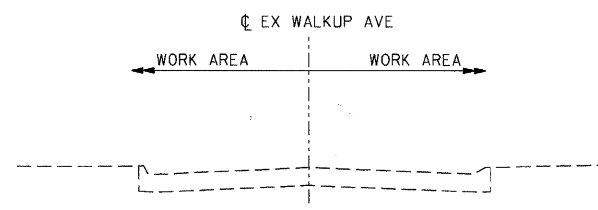
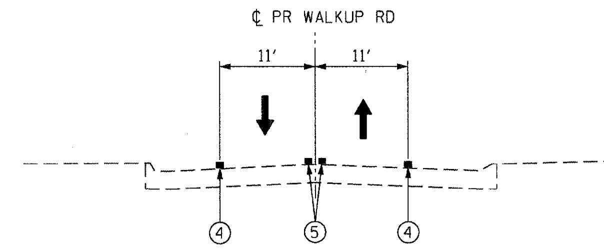
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	056
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



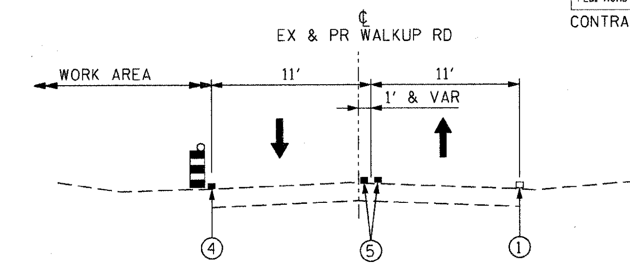
MOT TYPICAL SECTION

STAGE 1
STA 43+22.55 TO STA 50+00.00
(SEE NOTE)



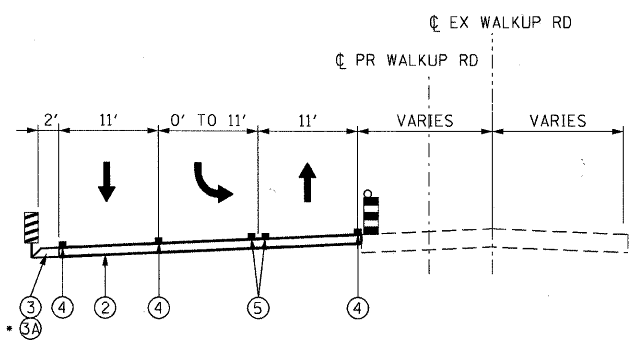
MOT TYPICAL SECTION

STAGE 1
STA 82+78.46 TO STA 86+41.52



MOT TYPICAL SECTION

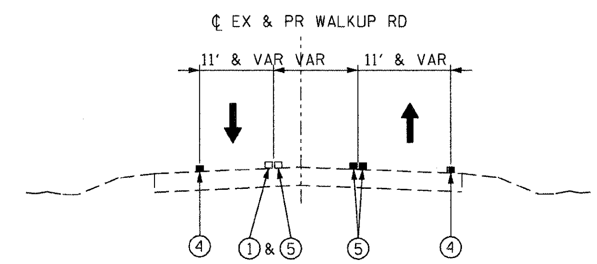
STAGE 1
STA 232+23.02 (PT) TO STA 245+00.44



* SEE PLAN SHEETS FOR LOCATION

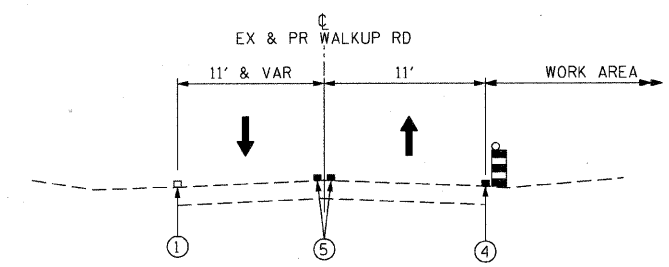
MOT TYPICAL SECTION

STAGE 1
STA 50+00.00 TO STA 54+11.15



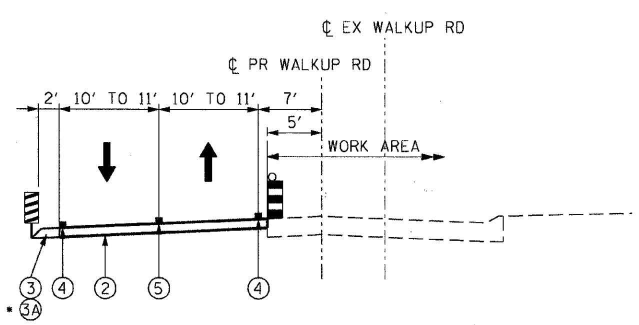
MOT TYPICAL SECTION

STAGE 1
STA 220+35.00 TO STA 225+00.00



MOT TYPICAL SECTION

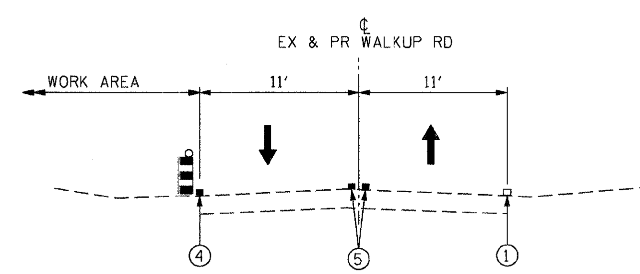
STAGE 1
STA 245+00.44 TO STA 259+00.00
STA 288+00.00 TO STA 307+45.00



* SEE PLAN SHEETS FOR LOCATION

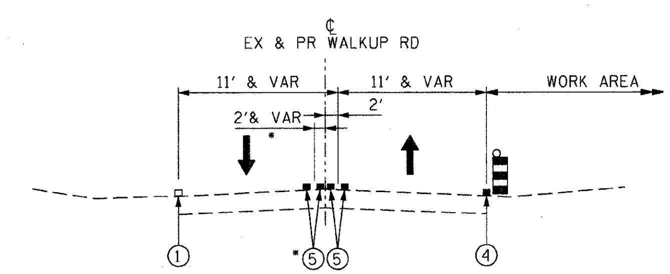
MOT TYPICAL SECTION

STAGE 1
STA 53+25 TO STA 82+78.46 (REDBIRD LN)



MOT TYPICAL SECTION

STAGE 1
STA 225+00 TO STA 232+23.02 (PT)



MOT TYPICAL SECTION

STAGE 1
STA 259+00.00 TO STA 264+94.83
STA 266+12.47 TO STA 279+00.00
* STA 279+00.00 TO STA 288+00.00 (LANES SHIFTED TO LT OF ℄)

LEGEND:

- VERTICAL PANEL W/ STEADY BURNING LIGHT
- DRUM W/ STEADY BURNING LIGHT
- DIRECTION OF TRAFFIC

1. EXISTING PAVEMENT MARKING
2. TEMPORARY PAVEMENT
3. TEMPORARY SHOULDER (PAID AS TEMP PAVEMENT)

3A. COMBINATION CURB & GUTTER, TYPE B-6.24 (TEMPORARY)

4. TEMPORARY PAVEMENT MARKING - 4" (WHITE)
5. TEMPORARY PAVEMENT MARKING - 4" (YELLOW)
6. PROPOSED PAVEMENT MARKING

NOTE:
EXISTING ROAD CLOSED TO TRAFFIC DURING STAGE 1

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

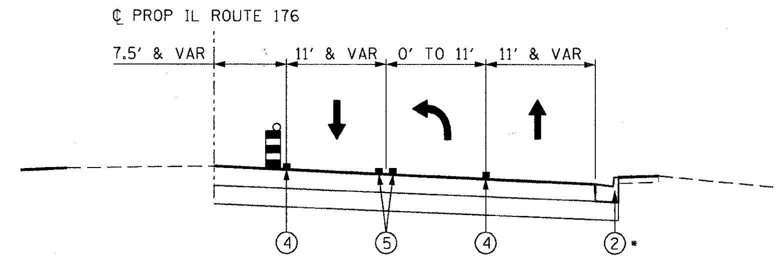
MAINTENANCE OF TRAFFIC TYPICAL SECTIONS STAGE 1, SHEET 2 OF 2

SCALE: N.T.S. DRAWN BY: TL
DATE: 06/10/11 CHECKED BY: KA

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601

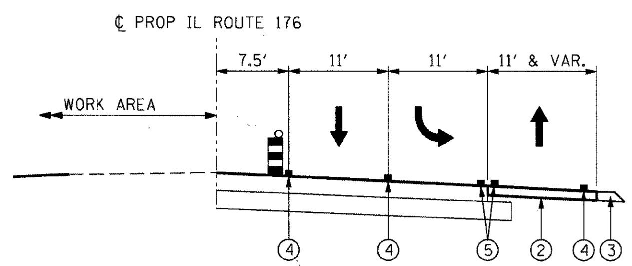
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	057
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



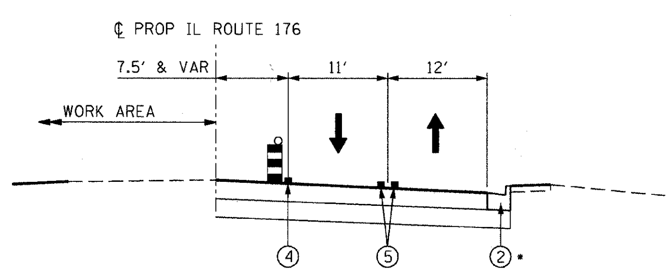
MOT TYPICAL SECTION

STAGE 2
STA 40+88.69 TO STA 50+00.00 (WALKUP RD)
• STA 41+00.00 TO STA 43+76.22 (TEMP PAVEMENT 2' MIN. SEE PLAN SHEETS)



MOT TYPICAL SECTION

STAGE 2
STA 50+00.00 (WALKUP ROAD) TO STA 53+56.48



MOT TYPICAL SECTION

STAGE 2
STA 53+56.48 TO STA 61+23.21
• STA 57+27.50 TO STA 60+86.06 (TEMP PAVEMENT 2' MIN)

LEGEND:

- VERTICAL PANEL W/ STEADY BURNING LIGHT
- DRUM W/ STEADY BURNING LIGHT
- DIRECTION OF TRAFFIC

1. EXISTING PAVEMENT MARKING
2. TEMPORARY PAVEMENT
3. TEMPORARY SHOULDER (PAID AS TEMP PAVEMENT)
3A. COMBINATION CURB & GUTTER, TYPE B-6.24 (TEMPORARY)
4. TEMPORARY PAVEMENT MARKING - 4" (WHITE)
5. TEMPORARY PAVEMENT MARKING - 4" (YELLOW)
6. PROPOSED PAVEMENT MARKING

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

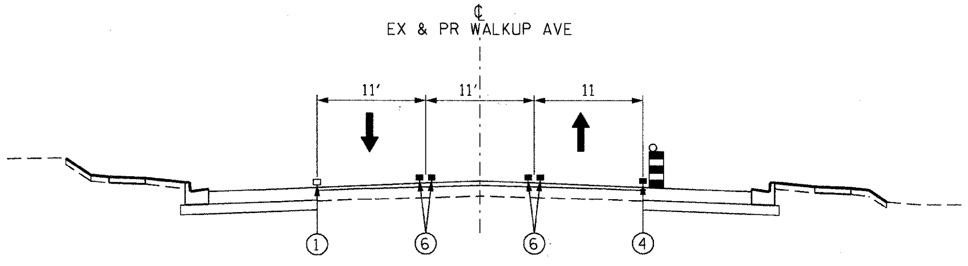
MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS
STAGE 2, SHEET 1 OF 2

SCALE: N.T.S. DRAWN BY: TL
DATE: 06/10/11 CHECKED BY: KA

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601

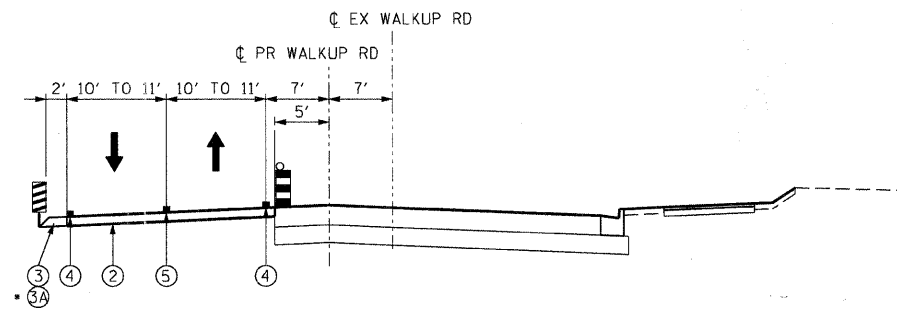
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	058
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



MOT TYPICAL SECTION

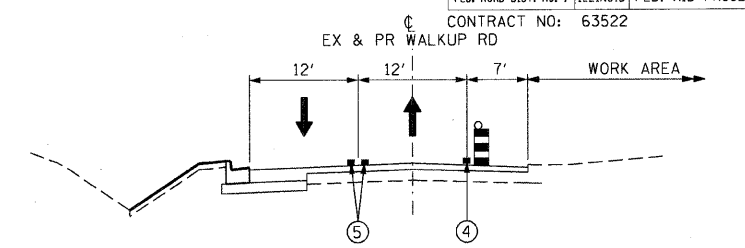
STAGE 2
STA 43+22.55 TO STA 46+40.46 (GATES ST)



* SEE PLAN SHEETS FOR LOCATION

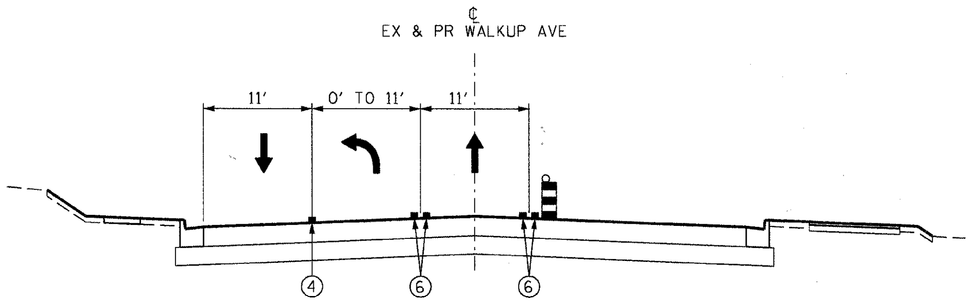
MOT TYPICAL SECTION

STAGE 2
STA 54+11.15 TO STA 59+96.66
STA 59+96.66 TO STA 63+38.86 (VETERANS ACRE PARK ENTRANCE)



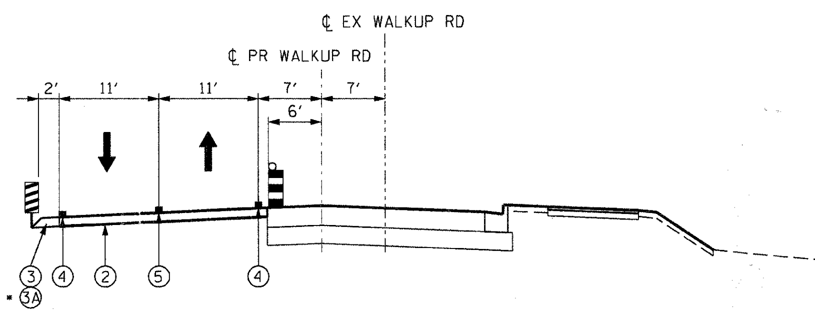
MOT TYPICAL SECTION

STAGE 2
STA 225+00.00 TO STA 227+92.45 (ANVIL DR)
STA 232+85.92 TO STA 235+58.90 (COACHLIGHT RD)
STA 240+51.56 TO STA 244+20.00
STA 244+20.00 TO STA 245+80.00 (LANES SHIFT TO RT OF ℄)



MOT TYPICAL SECTION

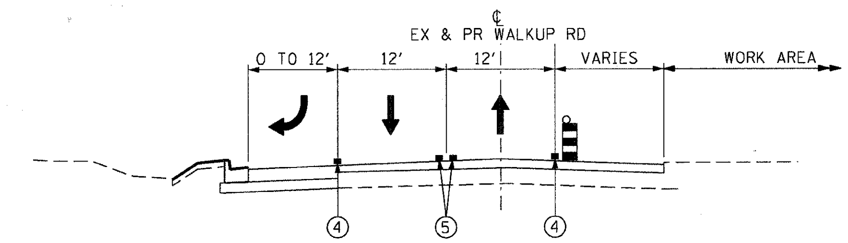
STAGE 2
STA 46+40.46 (GATES STO TO STA 50+00.00 (IL RTE 176)



* SEE PLAN SHEETS FOR LOCATION

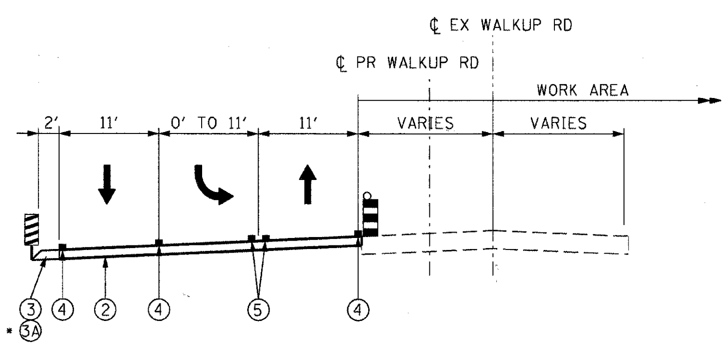
MOT TYPICAL SECTION

STAGE 2
STA 63+38.86 TO STA 76+42.41



MOT TYPICAL SECTION

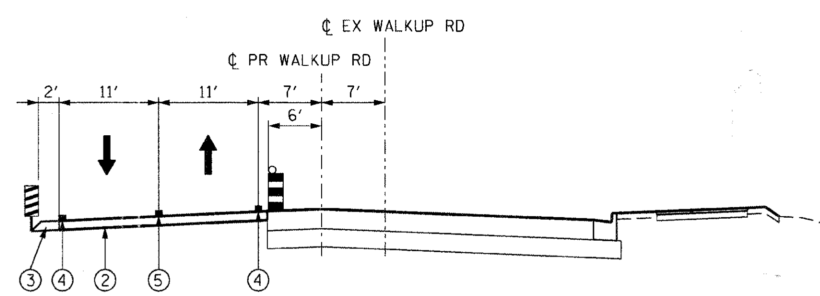
STAGE 2
STA 229+21.74 (ANVIL DR) TO STA 232+85.92
STA 236+81.04 (COACHLIGHT RD) TO STA 240+51.56



* SEE PLAN SHEETS FOR LOCATION

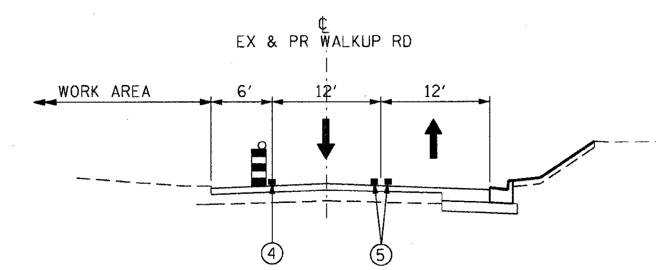
MOT TYPICAL SECTION

STAGE 2
STA 50+00.00 TO STA 54+11.15



MOT TYPICAL SECTION

STAGE 2
STA 76+42.41 TO STA 81+53.97 (BURNING BUSH TR)



MOT TYPICAL SECTION

STAGE 2
STA 245+80.00 TO STA 265+22.74 (MASON HILL RD)
STA 265+95.55 TO STA 307+45.00

LEGEND:

- VERTICAL PANEL W/ STEADY BURNING LIGHT
- DRUM W/ STEADY BURNING LIGHT
- DIRECTION OF TRAFFIC

① EXISTING PAVEMENT MARKING
② TEMPORARY PAVEMENT
③ TEMPORARY SHOULDER (PAID AS TEMP PAVEMENT)
③A COMBINATION CURB & GUTTER, TYPE B-6.24 (TEMPORARY)
④ TEMPORARY PAVEMENT MARKING - 4" (WHITE)
⑤ TEMPORARY PAVEMENT MARKING - 4" (YELLOW)
⑥ PROPOSED PAVEMENT MARKING

* LEFT TURN LANE/ PAINTED MEDIAN/ TWO WAY LEFT TURN LANE

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

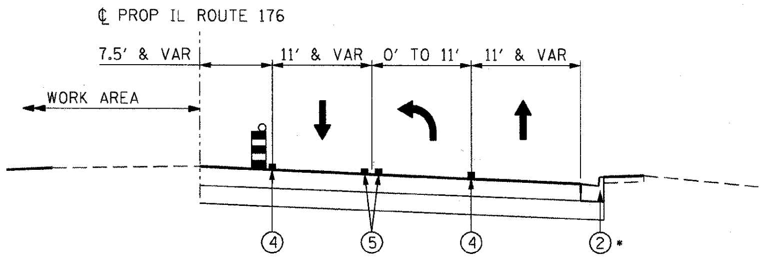
MAINTENANCE OF TRAFFIC TYPICAL SECTIONS STAGE 2, SHEET 2 OF 2

SCALE: N.T.S. DRAWN BY: TL
DATE: 06/10/11 CHECKED BY: KA

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N MICHIGAN AVE CHICAGO, IL 60601

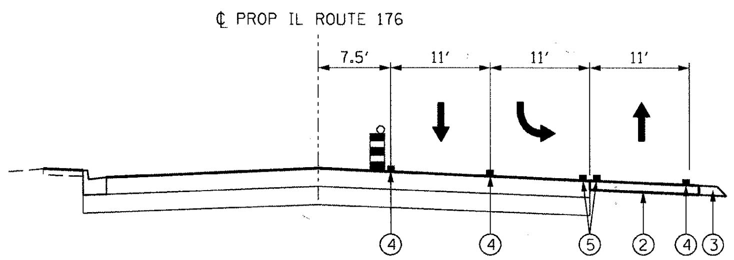
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	059
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



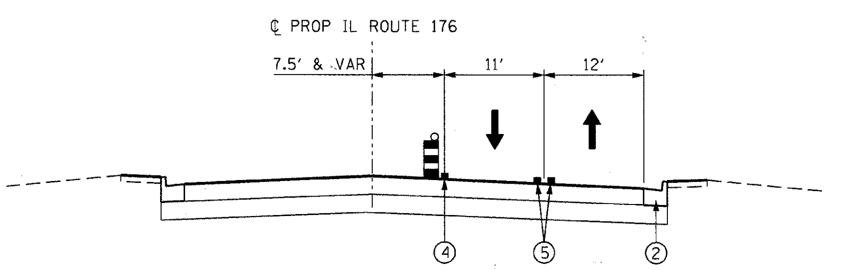
MOT TYPICAL SECTION

STAGE 3
STA 40+88.69 TO STA 50+00.00 (WALKUP RD)
* STA 41+00.00 TO STA 43+76.22 (PR CURB & GUTTER, SEE NOTE 1)



MOT TYPICAL SECTION

STAGE 3
STA 50+00.00 (WALKUP ROAD) TO STA 53+56.48
STA 50+50± TO STA 52+10± (SEE NOTE 1)

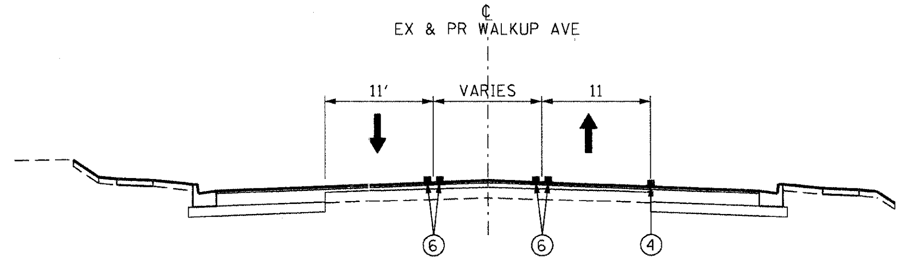


MOT TYPICAL SECTION

STAGE 3
STA 53+56.48 TO STA 61+23.21
STA 57+27.50 TO STA 60+86.08 (SEE NOTE 1)

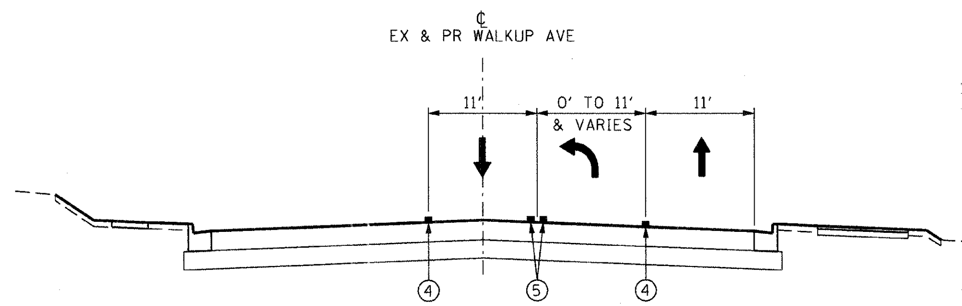
NOTE 1:

TEMP PAVEMENT REMOVED AND PR CURB & GUTTER CONSTRUCTED AT THIS LOCATION, AFTER STAGE 3, WHEN TEMP PAVEMENT IS NOT REQUIRED TO MAINTAIN TRAFFIC.



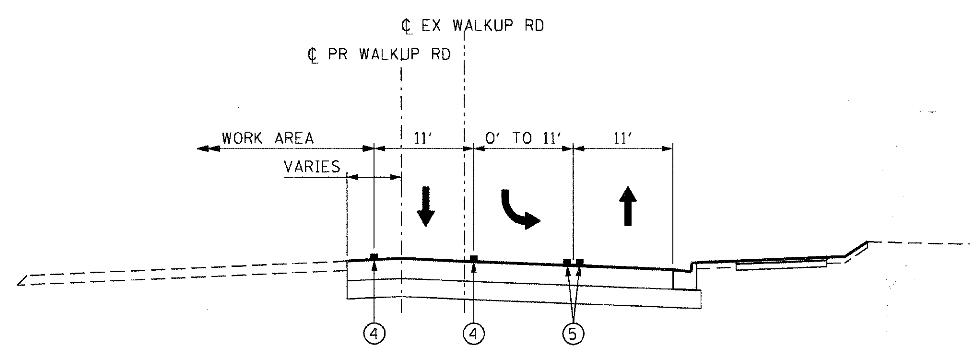
MOT TYPICAL SECTION

STAGE 3
STA 43+22.55 TO STA 46+40.46 (GATES ST)



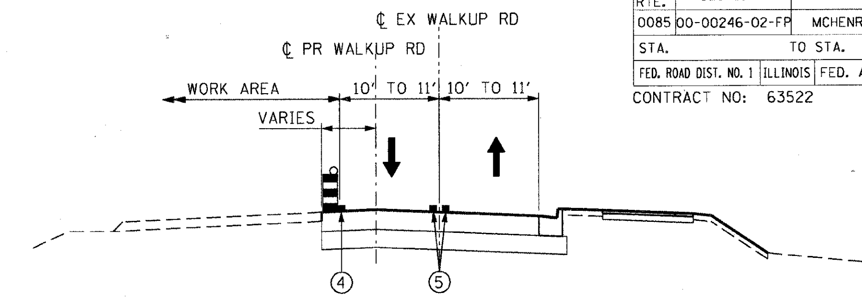
MOT TYPICAL SECTION

STAGE 3
STA 46+40.46 (GATES) TO STA 50+00.00 (IL RTE 176)



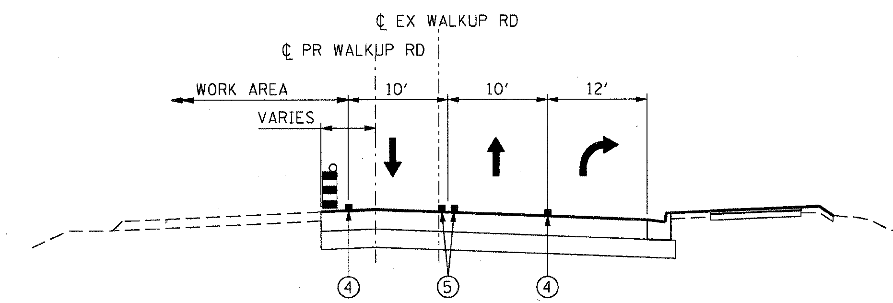
MOT TYPICAL SECTION

STAGE 3
STA 50+00.00 (IL RTE 176) TO STA 54+26.01



MOT TYPICAL SECTION

STAGE 3
STA 54+26.61 TO STA 59+96.61
STA 64+69.44 (TALISMON DR) TO STA 76+42.41
STA 80+12.77 (BURNING BUSH TR) TO STA 83+03.97 (REDBIRD LN)



MOT TYPICAL SECTION

STAGE 3
STA 59+96.61 TO STA 62+87.36 (VETERANS ACRE PARK ENTRANCE)
STA 76+42.41 TO STA 80+12.77 (BURNING BUSH TR)

LEGEND:

- VERTICAL PANEL W/ STEADY BURNING LIGHT
- DRUM W/ STEADY BURNING LIGHT
- DIRECTION OF TRAFFIC

1. EXISTING PAVEMENT MARKING
2. TEMPORARY PAVEMENT
3. TEMPORARY SHOULDER (PAID AS TEMP PAVEMENT)
3A. COMBINATION CURB & GUTTER, TYPE B-6.24 (TEMPORARY)
4. TEMPORARY PAVEMENT MARKING - 4" (WHITE)
5. TEMPORARY PAVEMENT MARKING - 4" (YELLOW)
6. PROPOSED PAVEMENT MARKING

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

MAINTENANCE OF TRAFFIC TYPICAL SECTIONS STAGE 3

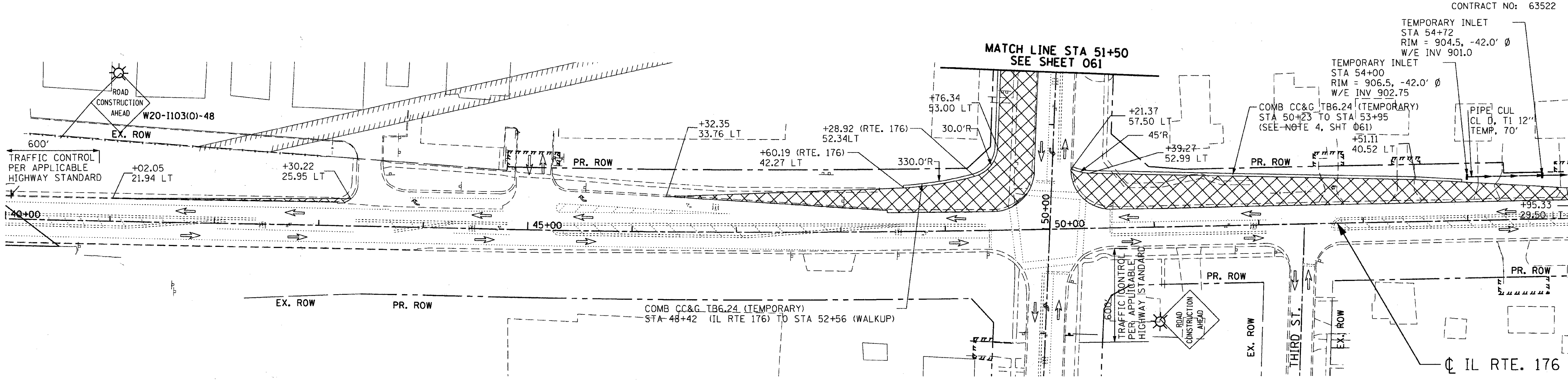
SCALE: N.T.S. DRAWN BY: TL

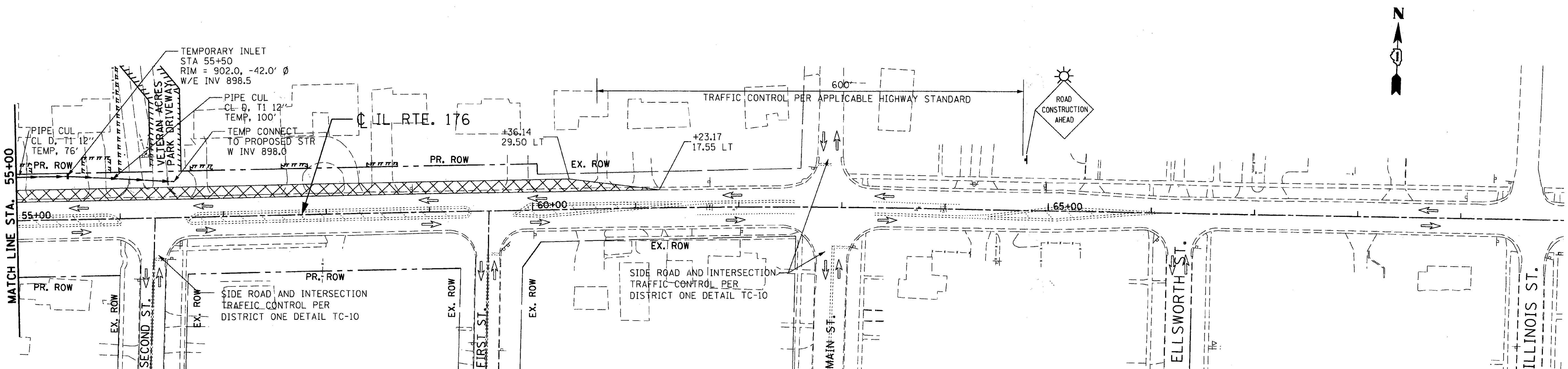
DATE: 06/10/11 CHECKED BY: KA

TENG

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	060
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522





LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- BARRICADE, TYPE III, W/ TY A FLASHER
- PREVIOUS TRAFFIC PATTERN
- PR TRAFFIC PATTERN
- SIGN
- VERTICAL PANEL W/ STEADY BURNING LIGHT
- DRUMS WITH STEADY BURNING LIGHT @ 50' C-C
- TYPE B MONODIRECTIONAL FLASHING LIGHT

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

MOT & PRESTAGE CONSTRUCTION ILLINOIS ROUTE 176 STA 40+00 TO STA 70+00

SCALE: 1" = 50' DRAWN BY: CC

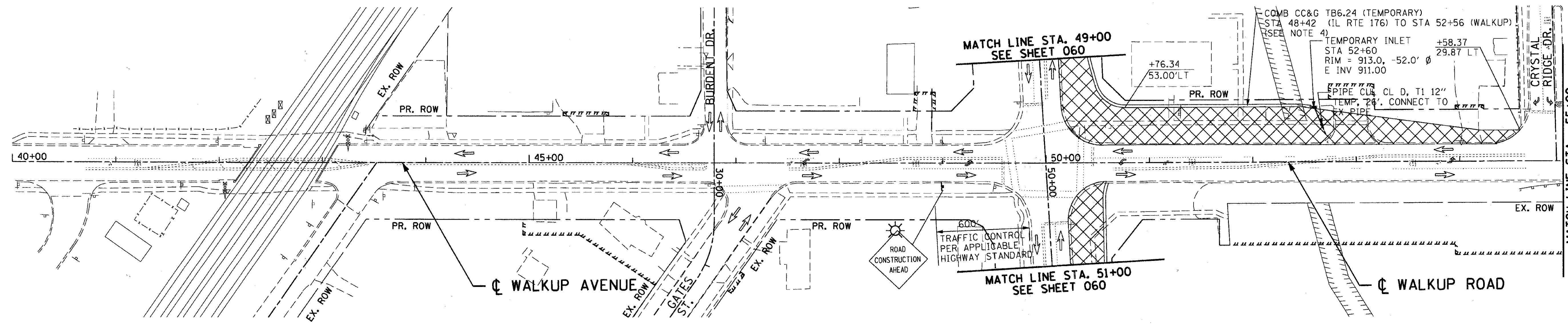
DATE: 04/15/11 CHECKED BY: KA

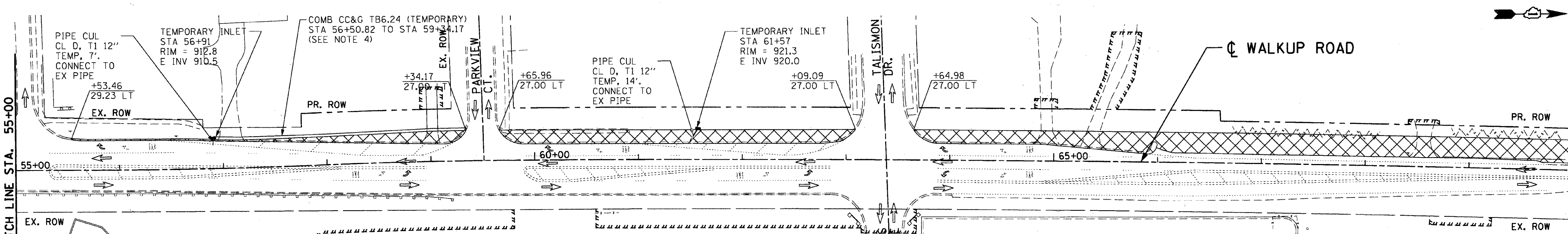
TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	061
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522





NOTES:
1. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE DETAILS IN THE PLANS AND STANDARDS 701326 AND 701501.
2. SIGN SPACING ON STANDARD 701326 SHALL BE AS SHOWN ON THE SIGN SPACING TABLE ON STANDARD 701501.
3. EXISTING LANE CONFIGURATION ARE TO REMAIN DURING PRESTAGE CONSTRUCTION.
4. CONTRACTOR SHALL DEPRESS COMB C&G TB6.24 5' IN ADVANCE OF THE TEMPORARY DRAINAGE STRUCTURE. THIS WORK WILL BE INCLUDED IN THE COST OF COMB C&G TB6.24.

LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- BARRICADE, TYPE III, W/ TY A FLASHER
- PREVIOUS TRAFFIC PATTERN
- PR TRAFFIC PATTERN
- SIGN
- VERTICAL PANEL W/ STEADY BURNING LIGHT
- DRUMS WITH STEADY BURNING LIGHT @ 50' C-C
- TYPE B MONODIRECTIONAL FLASHING LIGHT

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

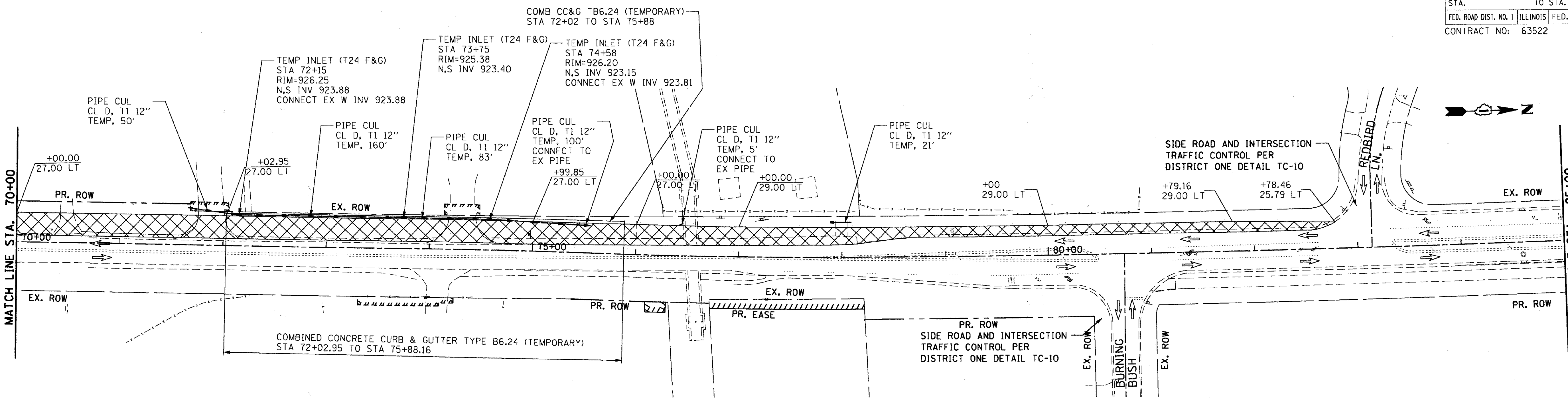
MOT & PRESTAGE CONSTRUCTION WALKUP ROAD STA 40+00 TO STA 70+00

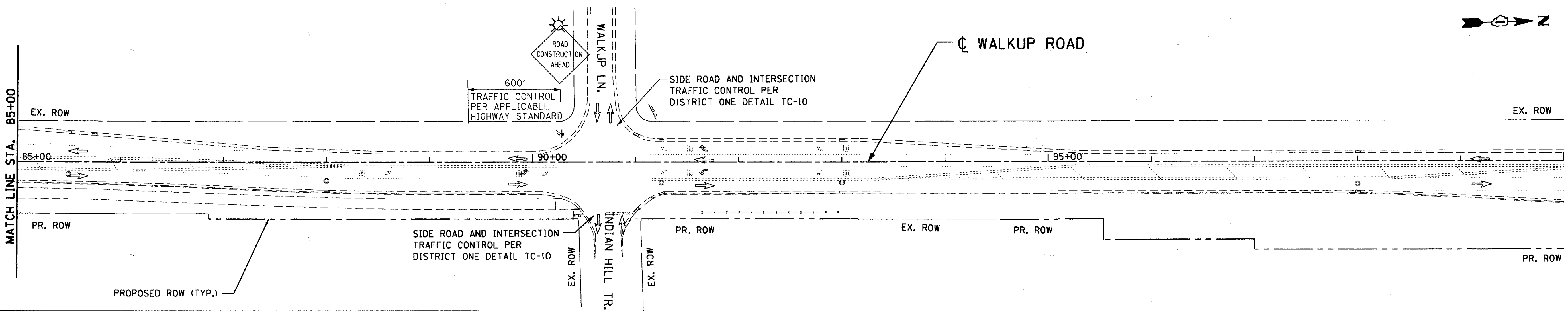
SCALE: 1" = 50' DRAWN BY: CC
DATE: 06/10/11 CHECKED BY: KA

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	062
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522





LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- BARRICADE, TYPE III, W/ TY A FLASHER
- PREVIOUS TRAFFIC PATTERN
- PR TRAFFIC PATTERN
- SIGN
- VERTICAL PANEL W/ STEADY BURNING LIGHT
- DRUMS WITH STEADY BURNING LIGHT @ 50' C-C
- TYPE B MONODIRECTIONAL FLASHING LIGHT

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

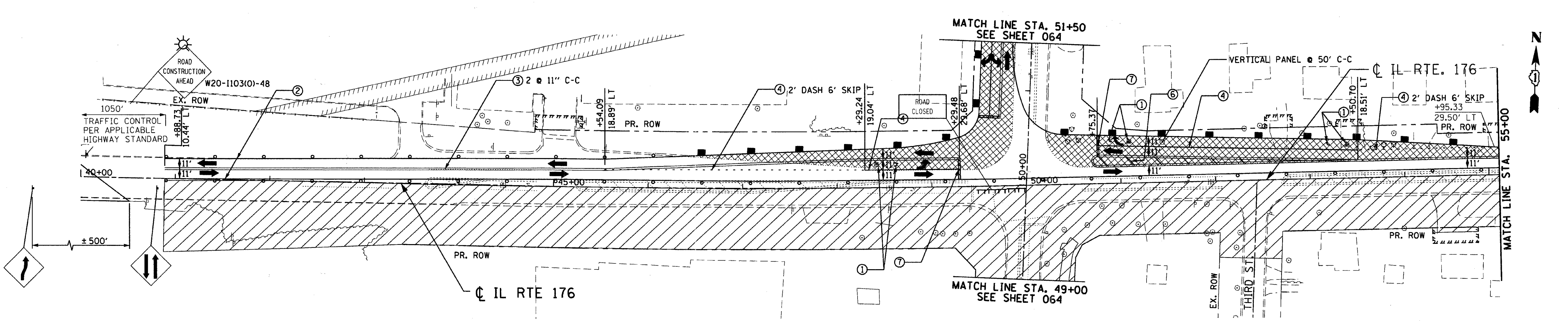
MOT & PRESTAGE CONSTRUCTION WALKUP ROAD STA 70+00 TO STA 100+00

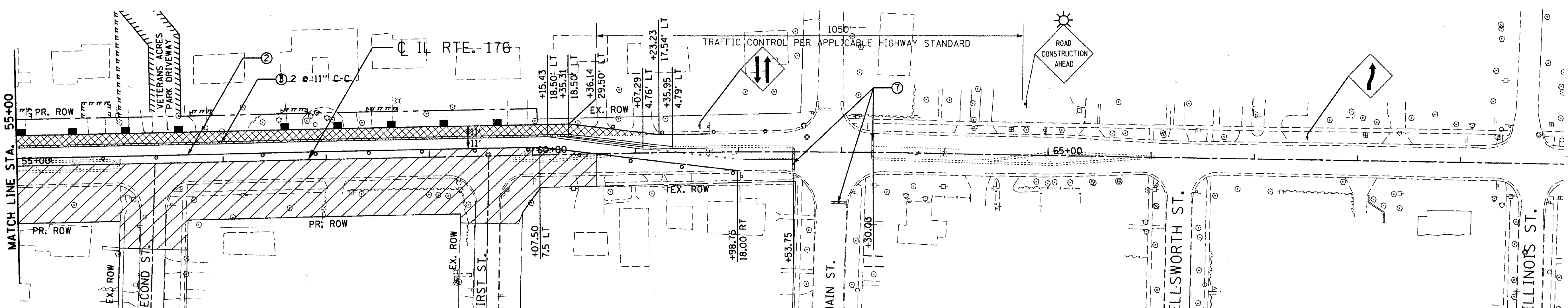
SCALE: 1" = 50' DRAWN BY: CC
DATE: 06/10/11 CHECKED BY: KA

TENG
TENG & ASSOCIATES, INC.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	063
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522





LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- BARRICADE, TYPE III, W/ TY A FLASHER
- PREVIOUS TRAFFIC PATTERN
- PR TRAFFIC PATTERN
- SIGN
- VERTICAL PANEL W/ STEADY BURNING LIGHT
- BARRICADE OR DRUMS
- TYPE B MONODIRECTIONAL FLASHING LIGHT

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
2. TEMPORARY PAVEMENT MARKING -LINE 4 inch (WHITE)
3. TEMPORARY PAVEMENT MARKING -LINE 4 inch (YELLOW)
4. TEMPORARY PAVEMENT MARKING -LINE 6 inch (WHITE)
5. TEMPORARY PAVEMENT MARKING -LINE 8 inch (YELLOW)
6. TEMPORARY PAVEMENT MARKING -LINE 12 inch (YELLOW)
7. TEMPORARY PAVEMENT MARKING -LINE 24 inch (WHITE)

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

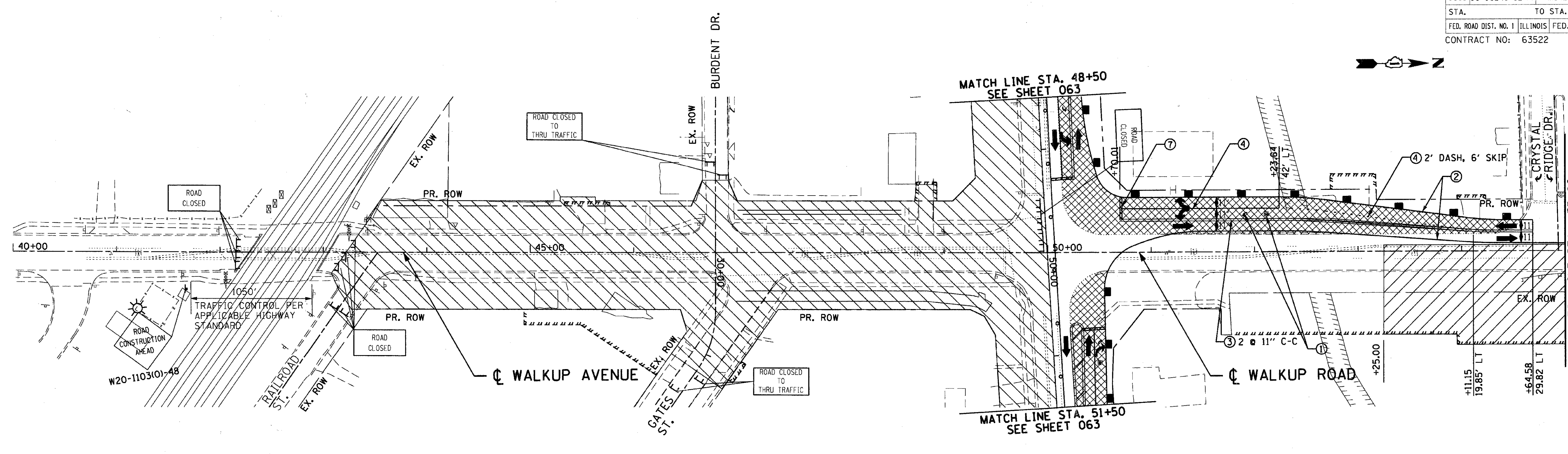
MOT & STAGE 1 CONSTRUCTION ILLINOIS ROUTE 176 STA 40+00 TO STA 70+00

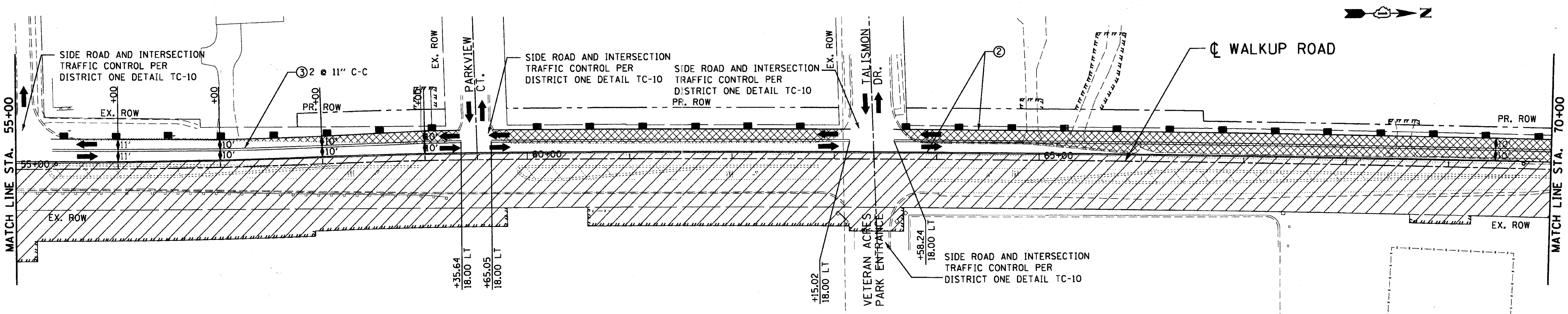
SCALE: 1" = 50' DRAWN BY: CC
DATE: 04/15/11 CHECKED BY: KA

TENG
TENG & ASSOCIATES, INC.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	064
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522





LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- BARRICADE, TYPE III, W/ TY A FLASHER
- PREVIOUS TRAFFIC PATTERN
- PR TRAFFIC PATTERN
- SIGN
- VERTICAL PANEL W/ STEADY BURNING LIGHT
- BARRICADE OR DRUMS
- TYPE B MONODIRECTIONAL FLASHING LIGHT

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
2. TEMPORARY PAVEMENT MARKING -LINE 4 Inch (WHITE)
3. TEMPORARY PAVEMENT MARKING -LINE 4 Inch (YELLOW)
4. TEMPORARY PAVEMENT MARKING -LINE 6 Inch (WHITE)
5. TEMPORARY PAVEMENT MARKING -LINE 8 Inch (YELLOW)
6. TEMPORARY PAVEMENT MARKING -LINE 12 Inch (YELLOW)
7. TEMPORARY PAVEMENT MARKING -LINE 24 Inch (WHITE)

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

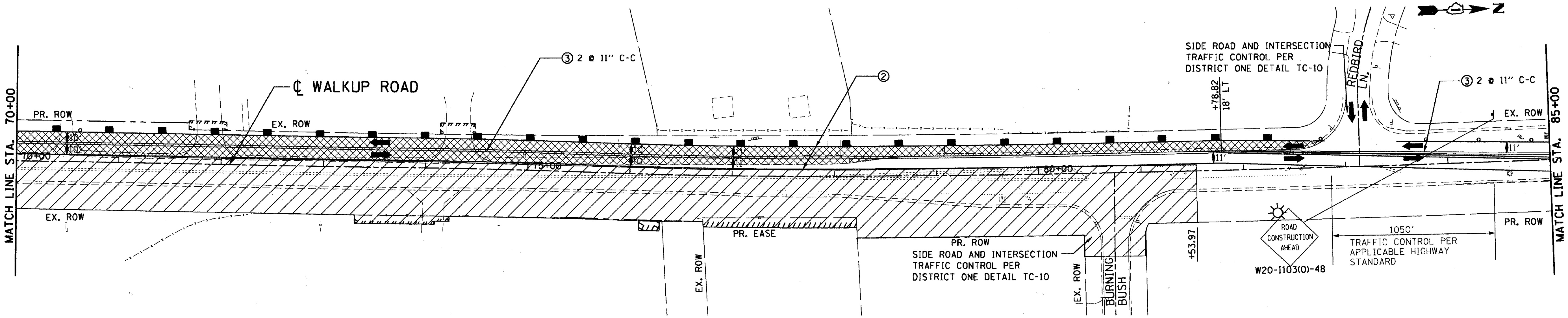
MOT & STAGE 1 CONSTRUCTION WALKUP ROAD STA 40+00 TO STA 70+00

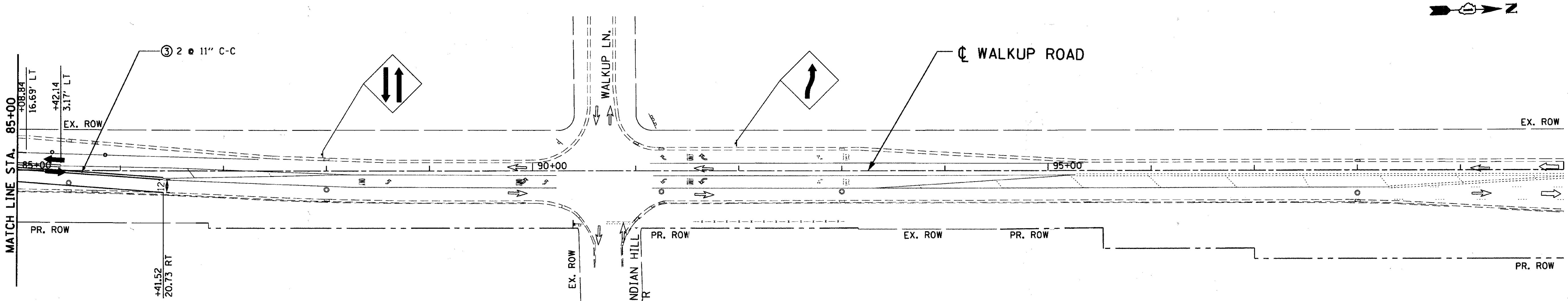
SCALE: 1" = 50' DRAWN BY: CC
DATE: 06/10/11 CHECKED BY: KA

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE: 312/616-0000

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	065
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522





LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- BARRICADE, TYPE III, W/ TY A FLASHER
- PREVIOUS TRAFFIC PATTERN
- PR TRAFFIC PATTERN
- SIGN
- VERTICAL PANEL W/ STEADY BURNING LIGHT
- DRUMS WITH STEADY BURNING LIGHT @ 50' C-C
- TYPE B MONODIRECTIONAL FLASHING LIGHT

PAVEMENT MARKING LEGEND

① TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
② TEMPORARY PAVEMENT MARKING -LINE 4 Inch (WHITE)
③ TEMPORARY PAVEMENT MARKING -LINE 4 Inch (YELLOW)
④ TEMPORARY PAVEMENT MARKING -LINE 6 Inch (WHITE)
⑤ TEMPORARY PAVEMENT MARKING -LINE 8 Inch (YELLOW)
⑥ TEMPORARY PAVEMENT MARKING -LINE 12 Inch (YELLOW)
⑦ TEMPORARY PAVEMENT MARKING -LINE 24 Inch (WHITE)

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

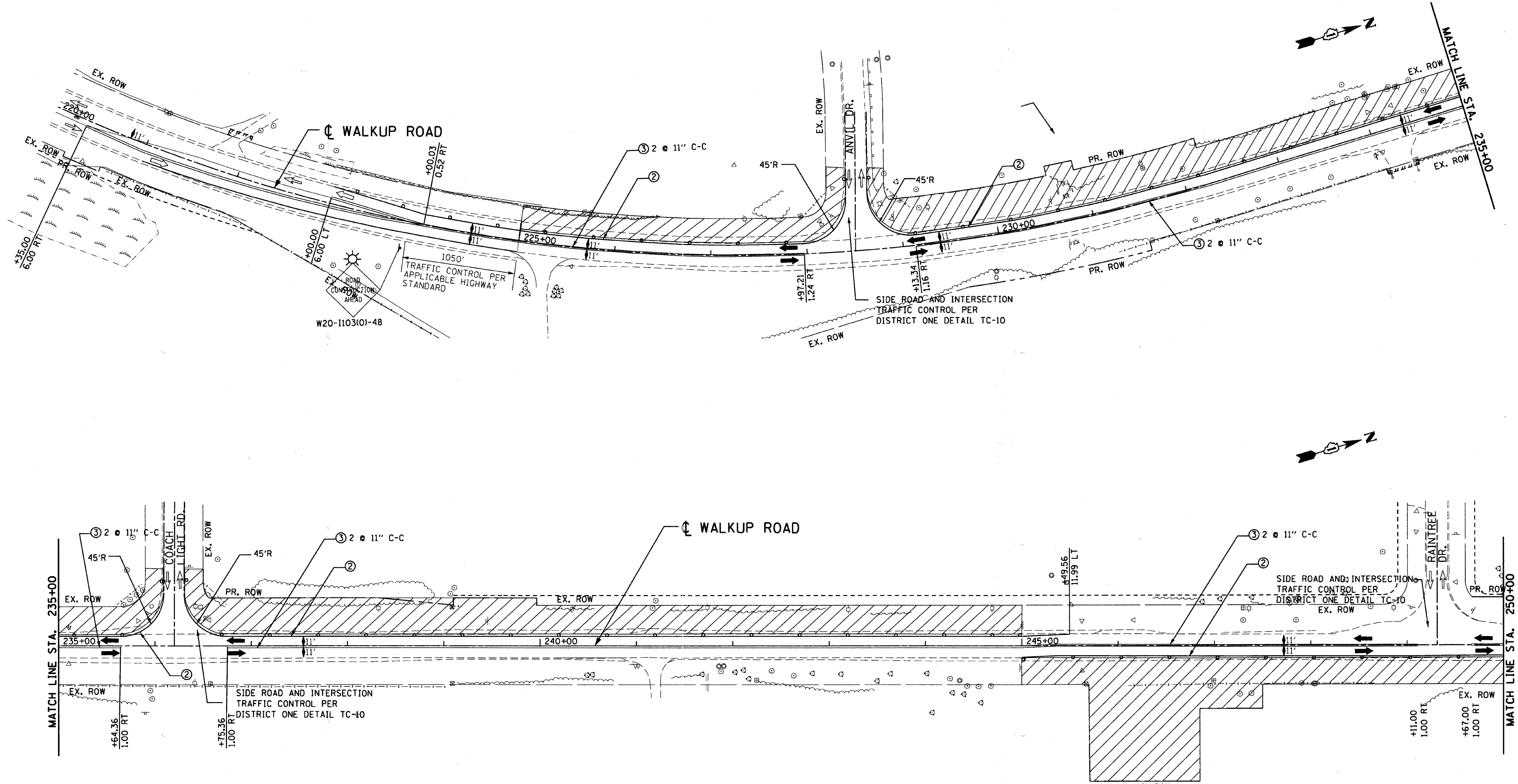
MOT & STAGE 1 CONSTRUCTION WALKUP ROAD STA 70+00 TO STA 100+00

SCALE: 1" = 50' DRAWN BY: CC
DATE: 06/10/11 CHECKED BY: KA

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	066
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- BARRICADE, TYPE III, W/ TY A FLASHER
- PREVIOUS TRAFFIC PATTERN
- PR TRAFFIC PATTERN
- SIGN
- VERTICAL PANEL W/ STEADY BURNING LIGHT
- BARRICADE OR DRUMS
- TYPE B MONODIRECTIONAL FLASHING LIGHT

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
2. TEMPORARY PAVEMENT MARKING -LINE 4 Inch (WHITE)
3. TEMPORARY PAVEMENT MARKING -LINE 4 Inch (YELLOW)
4. TEMPORARY PAVEMENT MARKING -LINE 6 Inch (WHITE)
5. TEMPORARY PAVEMENT MARKING -LINE 8 Inch (YELLOW)
6. TEMPORARY PAVEMENT MARKING -LINE 12 Inch (YELLOW)
7. TEMPORARY PAVEMENT MARKING -LINE 24 Inch (WHITE)

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

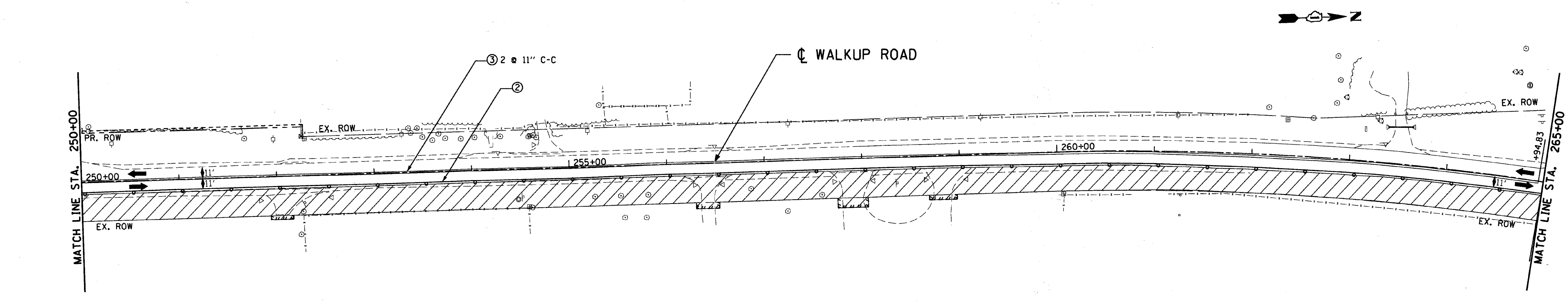
MOT & STAGE 1 CONSTRUCTION WALKUP ROAD STA 220+00 TO STA 250+00

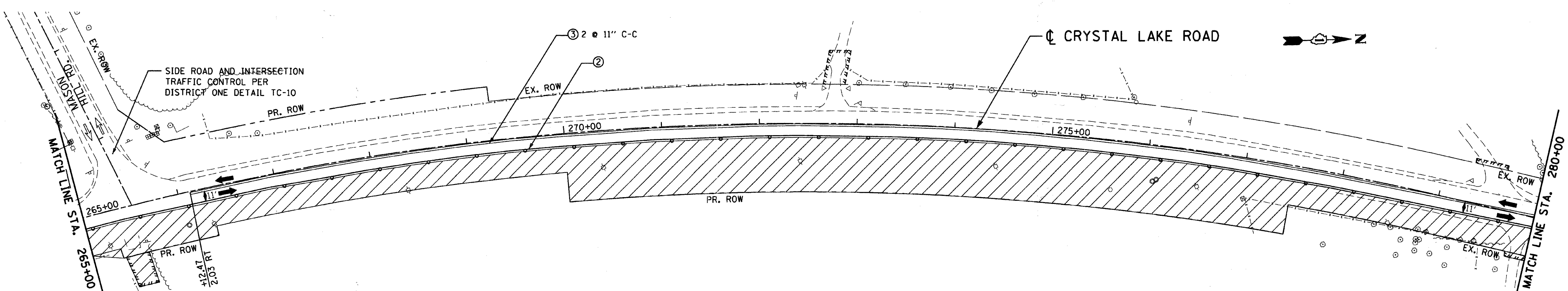
SCALE: 1" = 50'　DRAWN BY: CC
DATE: 04/15/11　CHECKED BY: KA

TENG
TENG & ASSOCIATES, INC.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	067
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522





LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- BARRICADE, TYPE III, W/ TY A FLASHER
- PREVIOUS TRAFFIC PATTERN
- PR TRAFFIC PATTERN
- SIGN
- VERTICAL PANEL W/ STEADY BURNING LIGHT
- BARRICADE OR DRUMS
- TYPE B MONODIRECTIONAL FLASHING LIGHT

PAVEMENT MARKING LEGEND

① TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS

② TEMPORARY PAVEMENT MARKING -LINE 4 Inch (WHITE)

③ TEMPORARY PAVEMENT MARKING -LINE 4 Inch (YELLOW)

④ TEMPORARY PAVEMENT MARKING -LINE 6 Inch (WHITE)

⑤ TEMPORARY PAVEMENT MARKING -LINE 8 Inch (YELLOW)

⑥ TEMPORARY PAVEMENT MARKING -LINE 12 Inch (YELLOW)

⑦ TEMPORARY PAVEMENT MARKING -LINE 24 Inch (WHITE)

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

MOT & STAGE 1 CONSTRUCTION WALKUP/CRYSTAL LAKE ROAD STA 250+00 TO STA 280+00

SCALE: 1" = 50' DRAWN BY: CC

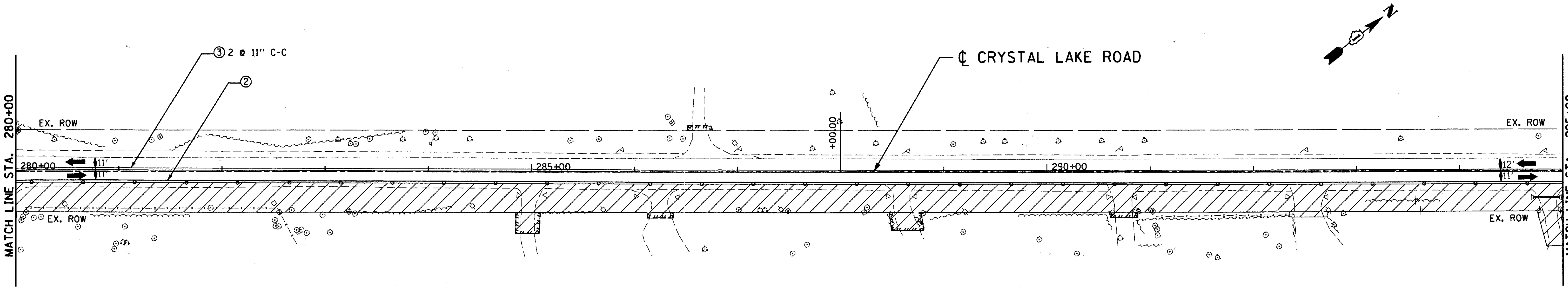
DATE: 04/15/11 CHECKED BY: KA

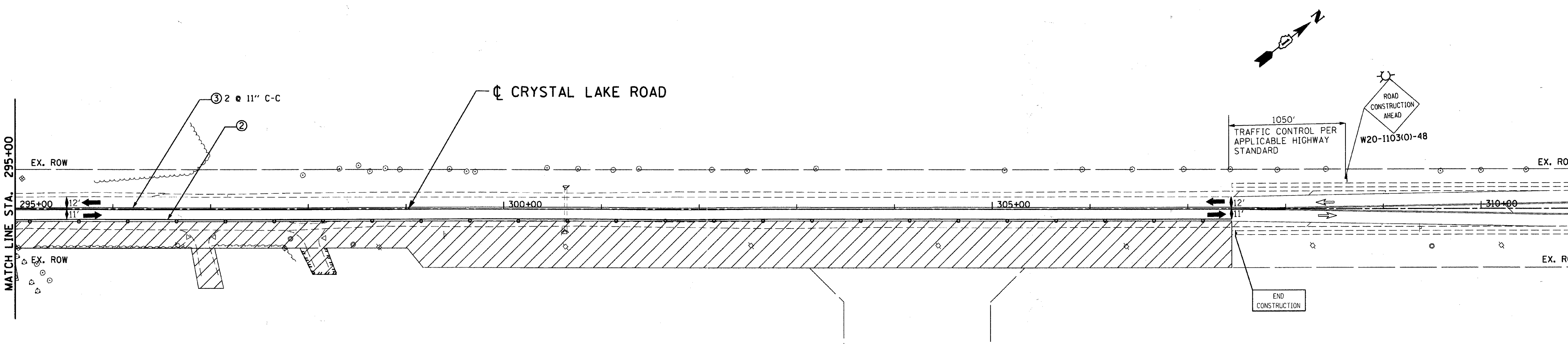
TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE CHICAGO, IL 60601

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	068
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522





LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- BARRICADE, TYPE III, W/ TY A FLASHER
- PREVIOUS TRAFFIC PATTERN
- PR TRAFFIC PATTERN
- SIGN
- VERTICAL PANEL W/ STEADY BURNING LIGHT
- BARRICADE OR DRUMS
- TYPE B MONODIRECTIONAL FLASHING LIGHT

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
2. TEMPORARY PAVEMENT MARKING -LINE 4 Inch (WHITE)
3. TEMPORARY PAVEMENT MARKING -LINE 4 Inch (YELLOW)
4. TEMPORARY PAVEMENT MARKING -LINE 6 Inch (WHITE)
5. TEMPORARY PAVEMENT MARKING -LINE 8 Inch (YELLOW)
6. TEMPORARY PAVEMENT MARKING -LINE 12 Inch (YELLOW)
7. TEMPORARY PAVEMENT MARKING -LINE 24 Inch (WHITE)

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

MOT & STAGE 1 CONSTRUCTION CRYSTAL LAKE ROAD STA 280+00 TO STA 310+00

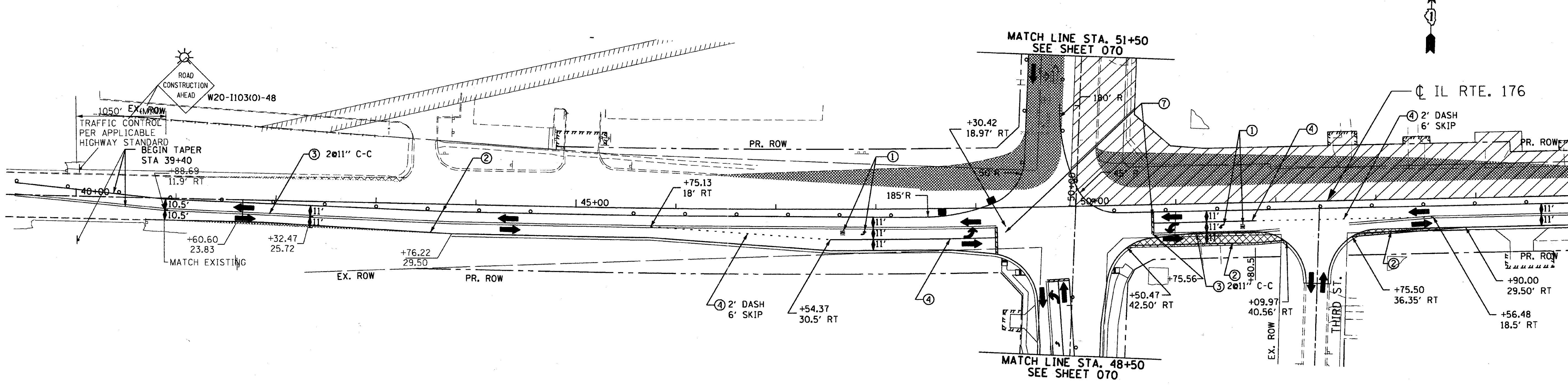
SCALE: 1" = 50' DRAWN BY: CC
DATE: 04/15/11 CHECKED BY: KA

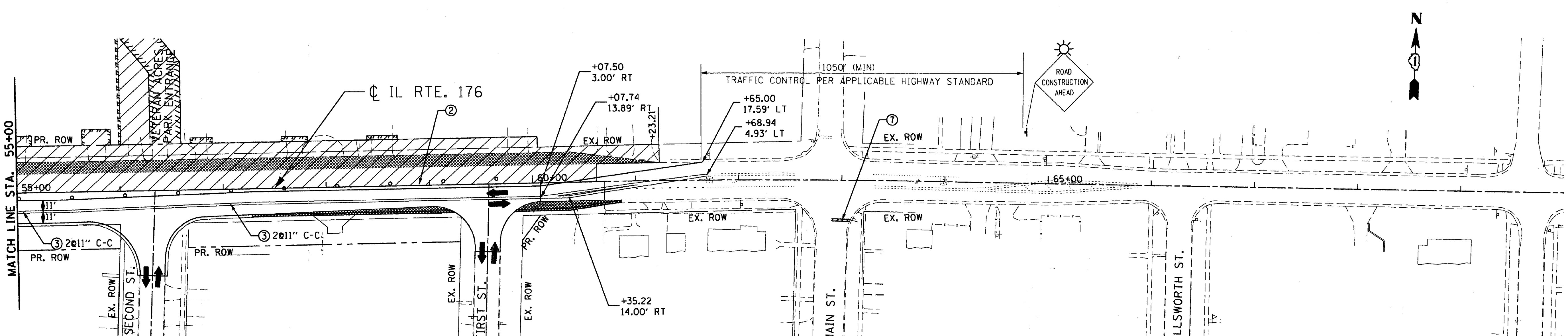
TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE CHICAGO, IL 60601

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	069
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522





LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- BARRICADE, TYPE III, W/ TY A FLASHER
- PREVIOUS TRAFFIC PATTERN
- PR TRAFFIC PATTERN
- SIGN
- VERTICAL PANEL W/ STEADY BURNING LIGHT
- DRUMS WITH STEADY BURNING LIGHT @ 50' C-C
- TYPE B MONODIRECTIONAL FLASHING LIGHT

PAVEMENT MARKING LEGEND

① TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS

② TEMPORARY PAVEMENT MARKING -LINE 4 Inch (WHITE)

③ TEMPORARY PAVEMENT MARKING -LINE 4 Inch (YELLOW)

④ TEMPORARY PAVEMENT MARKING -LINE 6 Inch (WHITE)

⑤ TEMPORARY PAVEMENT MARKING -LINE 8 Inch (YELLOW)

⑥ TEMPORARY PAVEMENT MARKING -LINE 12 Inch (YELLOW)

⑦ TEMPORARY PAVEMENT MARKING -LINE 24 Inch (WHITE)

NOTE:
SIDE ROAD AND INTERSECTION TRAFFIC CONTROL PER DISTRICT ONE DETAIL TC-10

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

MOT & STAGE 2 CONSTRUCTION ILLINOIS ROUTE 176 STA 40+00 TO STA 70+00

SCALE: 1" = 50' DRAWN BY: CC

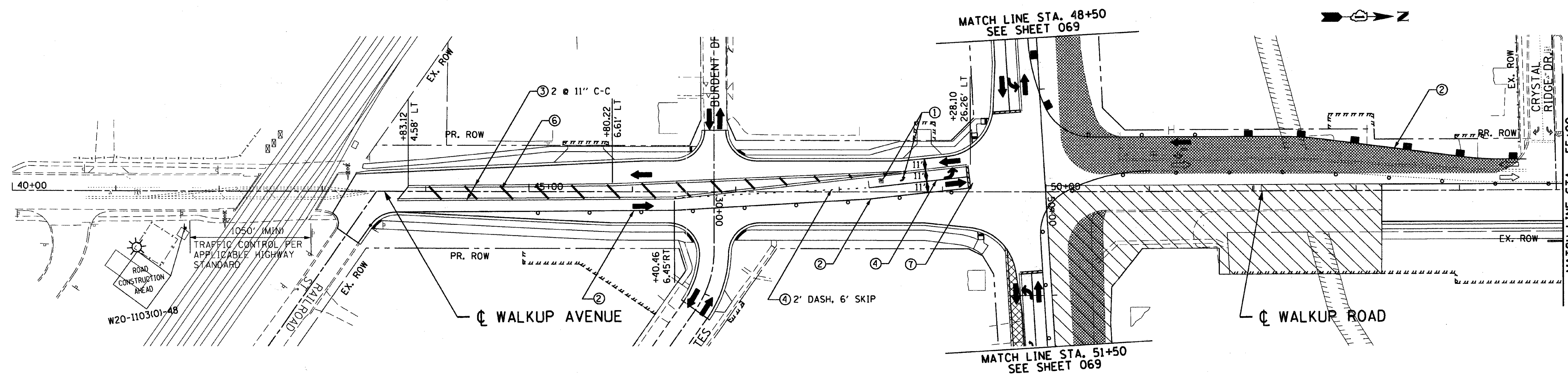
DATE: 06/10/11 CHECKED BY: KA

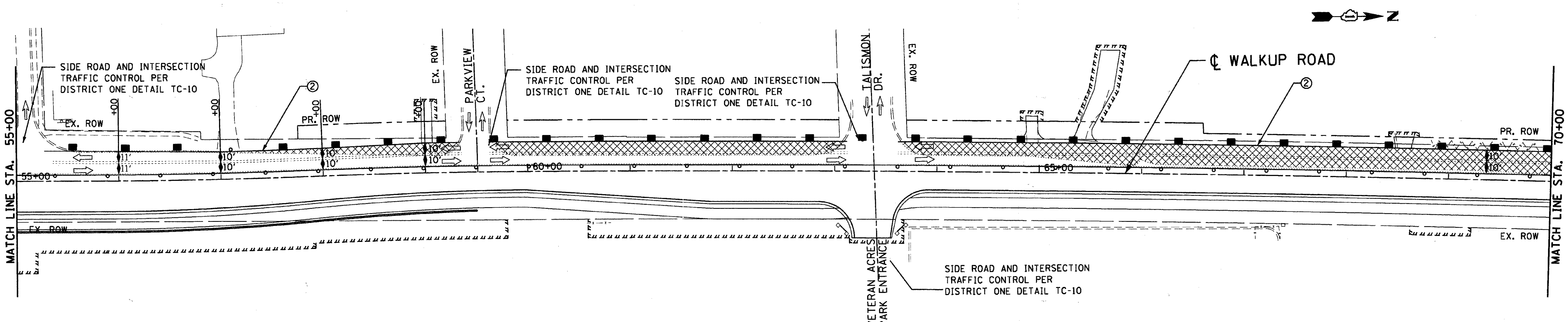
TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	070
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522





LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- BARRICADE, TYPE III, W/ TY A FLASHER
- PREVIOUS TRAFFIC PATTERN
- PR TRAFFIC PATTERN
- SIGN
- VERTICAL PANEL W/ STEADY BURNING LIGHT
- DRUMS WITH STEADY BURNING LIGHT @ 50' C-C
- TYPE B MONODIRECTIONAL FLASHING LIGHT

PAVEMENT MARKING LEGEND

① TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
② TEMPORARY PAVEMENT MARKING -LINE 4 Inch (WHITE)
③ TEMPORARY PAVEMENT MARKING -LINE 4 Inch (YELLOW)
④ TEMPORARY PAVEMENT MARKING -LINE 6 Inch (WHITE)
⑤ TEMPORARY PAVEMENT MARKING -LINE 8 Inch (YELLOW)
⑥ TEMPORARY PAVEMENT MARKING -LINE 12 Inch (YELLOW)
⑦ TEMPORARY PAVEMENT MARKING -LINE 24 Inch (WHITE)

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

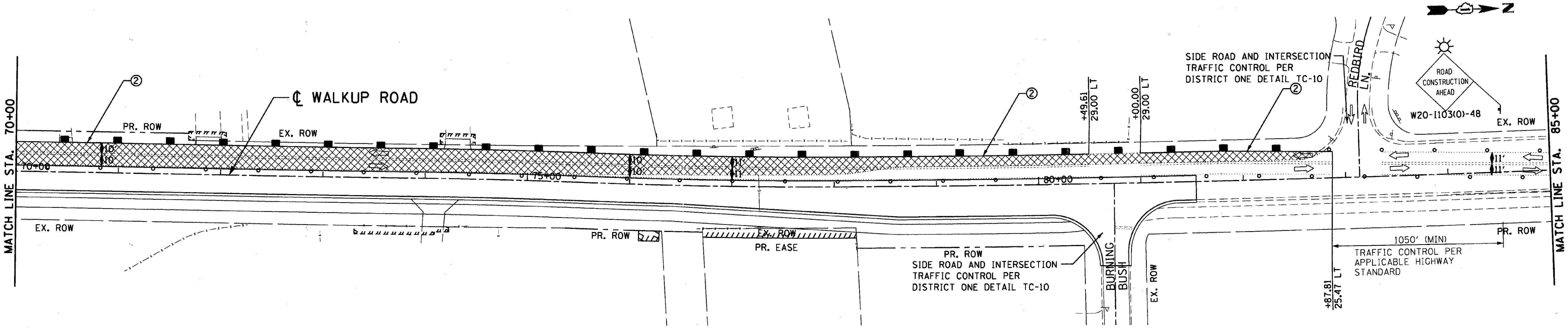
MOT & STAGE 2 CONSTRUCTION WALKUP ROAD STA 40+00 TO STA 70+00

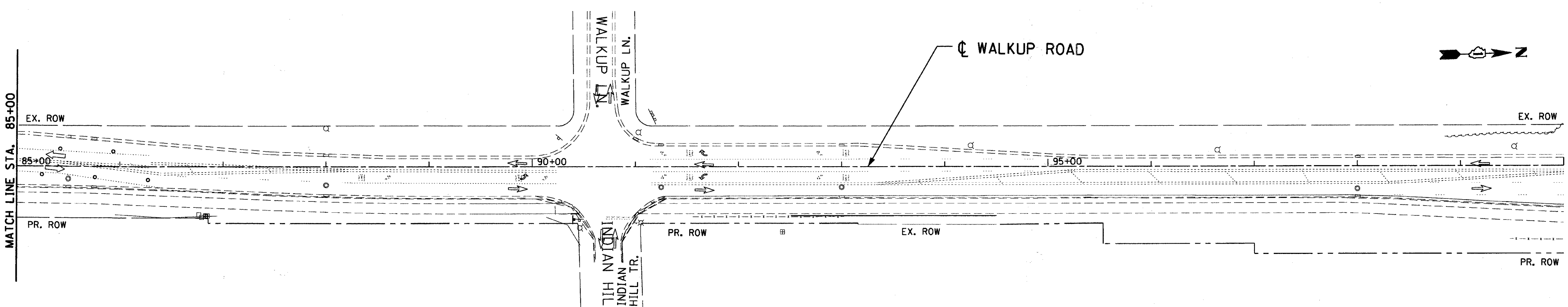
SCALE: 1" = 50' DRAWN BY: CC
DATE: 06/10/11 CHECKED BY: KA

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	071
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522





LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- BARRICADE, TYPE III, W/ TY A FLASHER
- PREVIOUS TRAFFIC PATTERN
- PR TRAFFIC PATTERN
- SIGN
- VERTICAL PANEL W/ STEADY BURNING LIGHT
- DRUMS WITH STEADY BURNING LIGHT @ 50' C-C
- TYPE B MONODIRECTIONAL FLASHING LIGHT

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
2. TEMPORARY PAVEMENT MARKING -LINE 4 Inch (WHITE)
3. TEMPORARY PAVEMENT MARKING -LINE 4 Inch (YELLOW)
4. TEMPORARY PAVEMENT MARKING -LINE 6 Inch (WHITE)
5. TEMPORARY PAVEMENT MARKING -LINE 8 Inch (YELLOW)
6. TEMPORARY PAVEMENT MARKING -LINE 12 Inch (YELLOW)
7. TEMPORARY PAVEMENT MARKING -LINE 24 Inch (WHITE)

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

MOT & STAGE 2 CONSTRUCTION WALKUP ROAD STA 70+00 TO STA 100+00

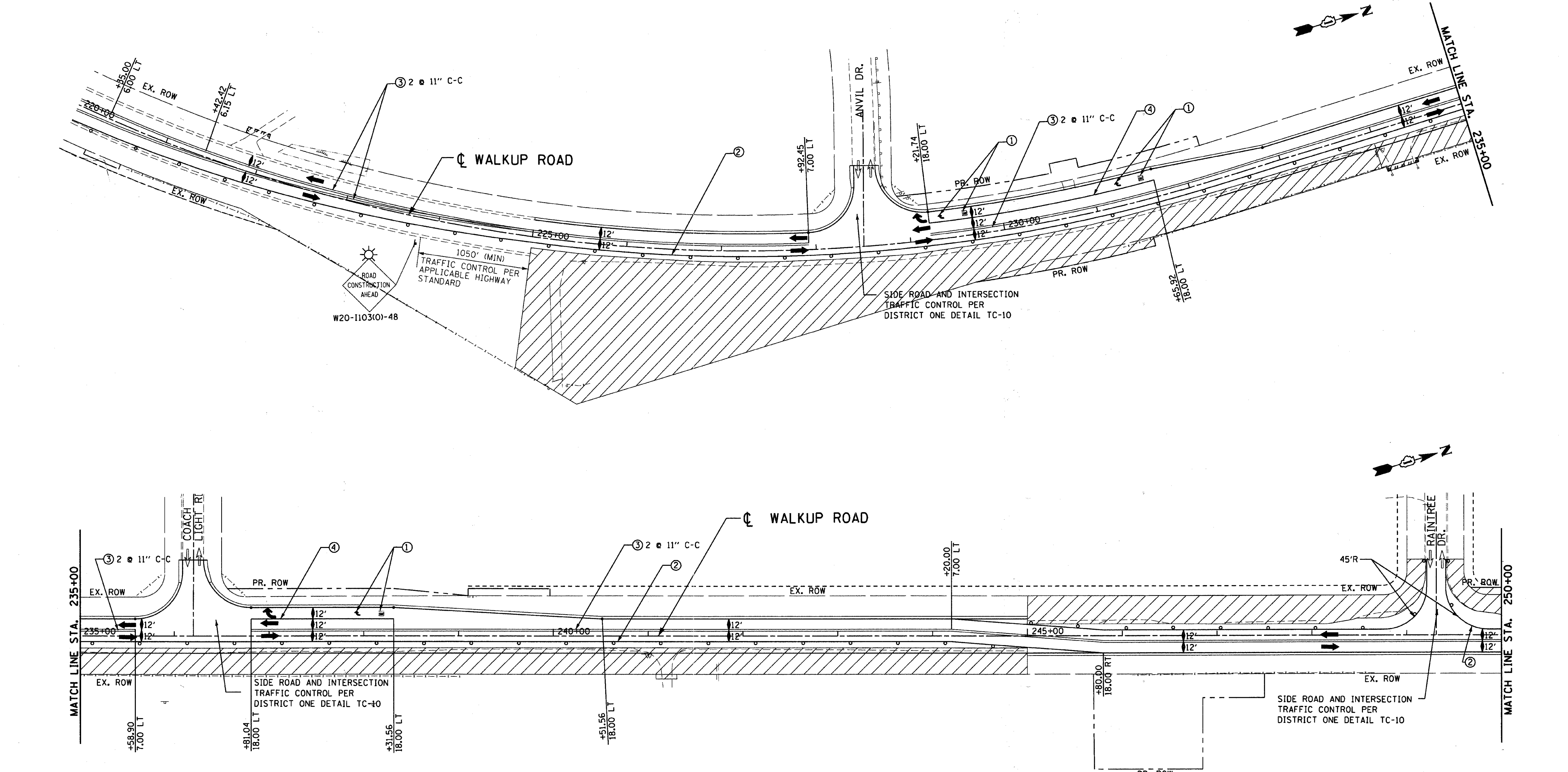
SCALE: 1" = 50' DRAWN BY: CC
DATE: 06/10/11 CHECKED BY: KA

TENG

TENG & ASSOCIATES, INC.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	072
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- BARRICADE, TYPE III, W/ TY A FLASHER
- PREVIOUS TRAFFIC PATTERN
- PR TRAFFIC PATTERN
- SIGN
- VERTICAL PANEL W/ STEADY BURNING LIGHT
- DRUMS WITH STEADY BURNING LIGHT @ 50' C-C
- TYPE B MONODIRECTIONAL FLASHING LIGHT

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
2. TEMPORARY PAVEMENT MARKING -LINE 4 Inch (WHITE)
3. TEMPORARY PAVEMENT MARKING -LINE 4 Inch (YELLOW)
4. TEMPORARY PAVEMENT MARKING -LINE 6 Inch (WHITE)
5. TEMPORARY PAVEMENT MARKING -LINE 8 Inch (YELLOW)
6. TEMPORARY PAVEMENT MARKING -LINE 12 Inch (YELLOW)
7. TEMPORARY PAVEMENT MARKING -LINE 24 Inch (WHITE)

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

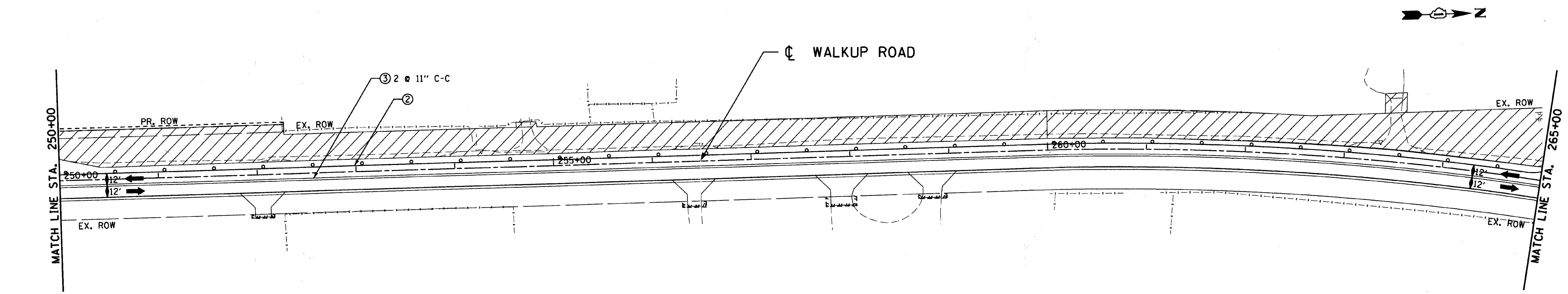
MOT & STAGE 2 CONSTRUCTION WALKUP ROAD STA 220+00 TO STA 250+00

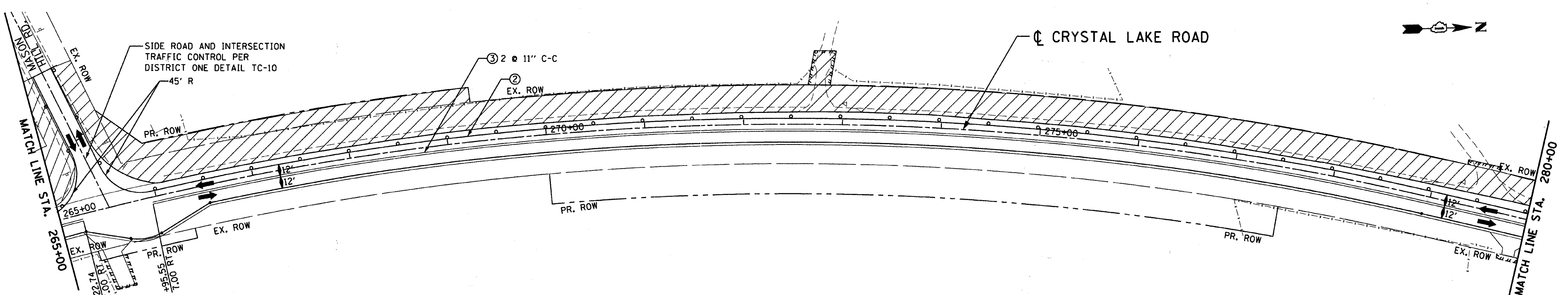
SCALE: 1" = 50' DRAWN BY: CC
DATE: 04/15/11 CHECKED BY: KA

TENG
TENG & ASSOCIATES, INC.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	073
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522





LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- BARRICADE, TYPE III, W/ TY A FLASHER
- PREVIOUS TRAFFIC PATTERN
- PR TRAFFIC PATTERN
- SIGN
- VERTICAL PANEL W/ STEADY BURNING LIGHT
- DRUMS WITH STEADY BURNING LIGHT @ 50' C-C
- TYPE B MONODIRECTIONAL FLASHING LIGHT

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
2. TEMPORARY PAVEMENT MARKING -LINE 4 Inch (WHITE)
3. TEMPORARY PAVEMENT MARKING -LINE 4 Inch (YELLOW)
4. TEMPORARY PAVEMENT MARKING -LINE 6 Inch (WHITE)
5. TEMPORARY PAVEMENT MARKING -LINE 8 Inch (YELLOW)
6. TEMPORARY PAVEMENT MARKING -LINE 12 Inch (YELLOW)
7. TEMPORARY PAVEMENT MARKING -LINE 24 Inch (WHITE)

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

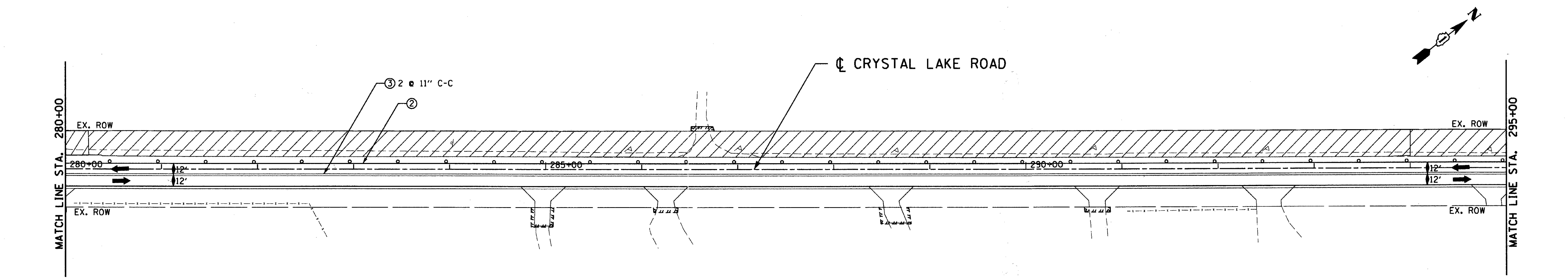
MOT & STAGE 2 CONSTRUCTION WALKUP/CRYSTAL LAKE ROAD STA 250+00 TO STA 280+00

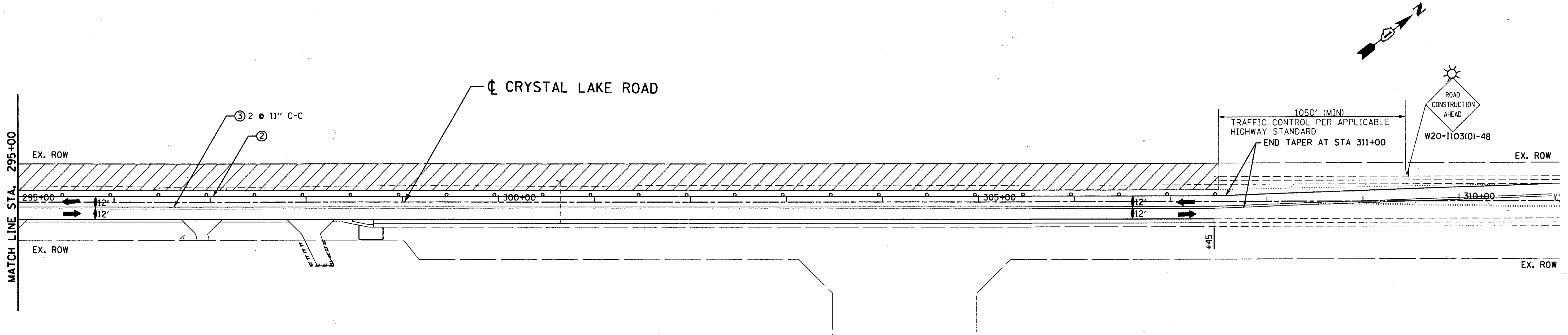
SCALE: 1" = 50' DRAWN BY: CC
DATE: 04/15/11 CHECKED BY: KA

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N MICHIGAN AVE CHICAGO, IL 60601

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	074
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522





LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- BARRICADE, TYPE III, W/ TY A FLASHER
- PREVIOUS TRAFFIC PATTERN
- PR TRAFFIC PATTERN
- SIGN
- VERTICAL PANEL W/ STEADY BURNING LIGHT
- DRUMS WITH STEADY BURNING LIGHT @ 50' C-C
- TYPE B MONODIRECTIONAL FLASHING LIGHT

PAVEMENT MARKING LEGEND

① TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
② TEMPORARY PAVEMENT MARKING -LINE 4 Inch (WHITE)
③ TEMPORARY PAVEMENT MARKING -LINE 4 Inch (YELLOW)
④ TEMPORARY PAVEMENT MARKING -LINE 6 Inch (WHITE)
⑤ TEMPORARY PAVEMENT MARKING -LINE 8 Inch (YELLOW)
⑥ TEMPORARY PAVEMENT MARKING -LINE 12 Inch (YELLOW)
⑦ TEMPORARY PAVEMENT MARKING -LINE 24 Inch (WHITE)

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

MOT & STAGE 2 CONSTRUCTION CRYSTAL LAKE ROAD STA 280+00 TO STA 310+00

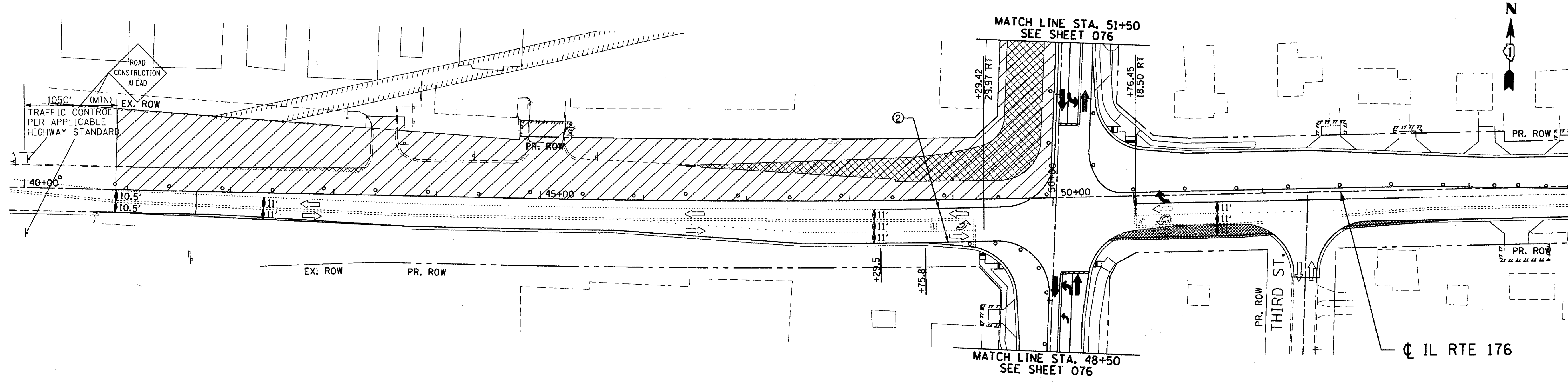
SCALE: 1" = 50' DRAWN BY: CC
DATE: 04/15/11 CHECKED BY: KA

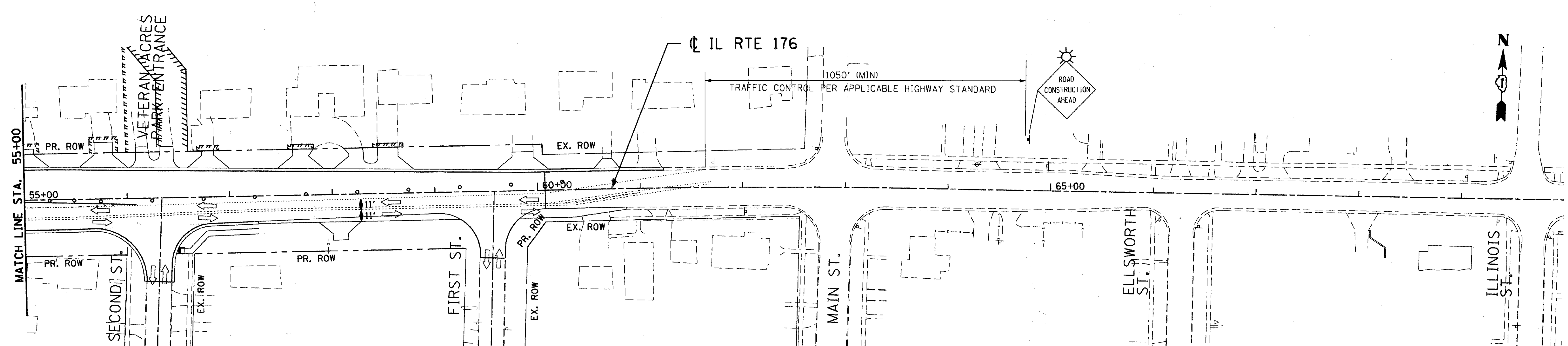
TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	075
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522





LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- BARRICADE, TYPE III, W/ TY A FLASHER
- PREVIOUS TRAFFIC PATTERN
- PR TRAFFIC PATTERN
- SIGN
- VERTICAL PANEL W/ STEADY BURNING LIGHT
- DRUMS WITH STEADY BURNING LIGHT @ 50' C-C
- TYPE B MONODIRECTIONAL FLASHING LIGHT

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
2. TEMPORARY PAVEMENT MARKING -LINE 4 inch (WHITE)
3. TEMPORARY PAVEMENT MARKING -LINE 4 inch (YELLOW)
4. TEMPORARY PAVEMENT MARKING -LINE 6 inch (WHITE)
5. TEMPORARY PAVEMENT MARKING -LINE 8 inch (YELLOW)
6. TEMPORARY PAVEMENT MARKING -LINE 12 inch (YELLOW)
7. TEMPORARY PAVEMENT MARKING -LINE 24 inch (WHITE)

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

MOT & STAGE 3 CONSTRUCTION ILLINOIS ROUTE 176 STA 40+00 TO STA 70+00

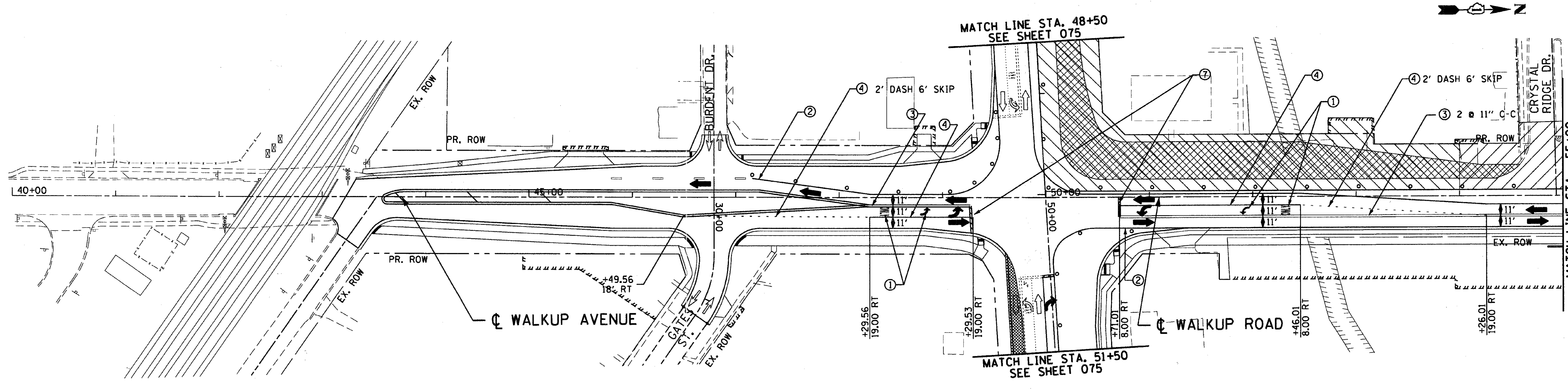
SCALE: 1" = 50'   DRAWN BY: CC
DATE: 06/10/11   CHECKED BY: KA

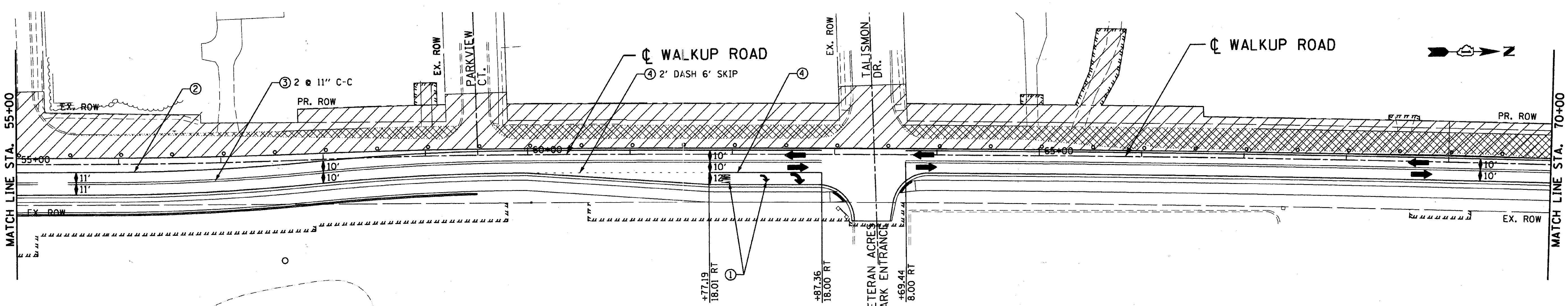
TENG

TENG & ASSOCIATES, INC.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	076
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522





LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- BARRICADE, TYPE III, W/ TY A FLASHER
- PREVIOUS TRAFFIC PATTERN
- PR TRAFFIC PATTERN
- SIGN
- VERTICAL PANEL W/ STEADY BURNING LIGHT
- DRUMS WITH STEADY BURNING LIGHT @ 50' C-C
- TYPE B MONODIRECTIONAL FLASHING LIGHT

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
2. TEMPORARY PAVEMENT MARKING -LINE 4 Inch (WHITE)
3. TEMPORARY PAVEMENT MARKING -LINE 4 Inch (YELLOW)
4. TEMPORARY PAVEMENT MARKING -LINE 6 Inch (WHITE)
5. TEMPORARY PAVEMENT MARKING -LINE 8 Inch (YELLOW)
6. TEMPORARY PAVEMENT MARKING -LINE 12 Inch (YELLOW)
7. TEMPORARY PAVEMENT MARKING -LINE 24 Inch (WHITE)

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

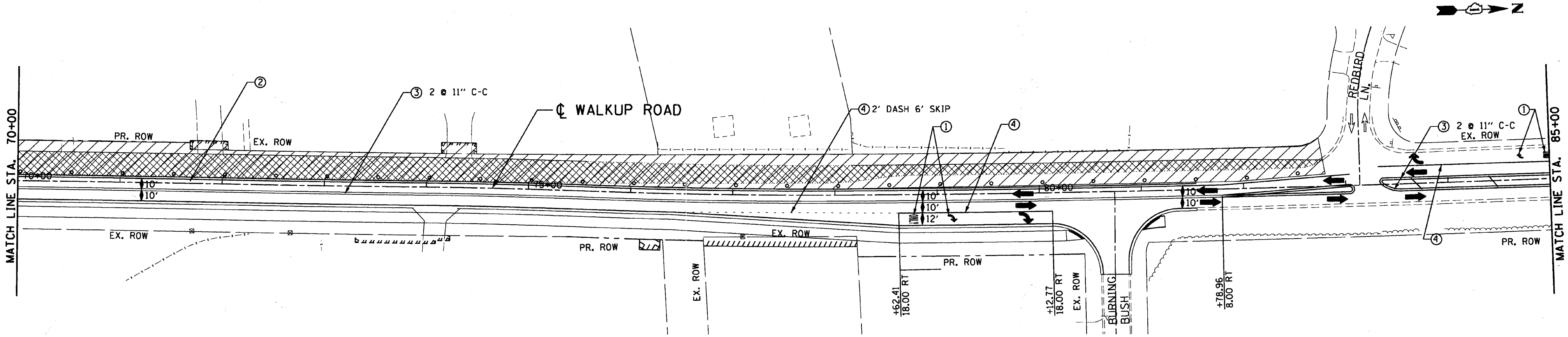
MOT & STAGE 3 CONSTRUCTION WALKUP ROAD STA 40+00 TO STA 70+00

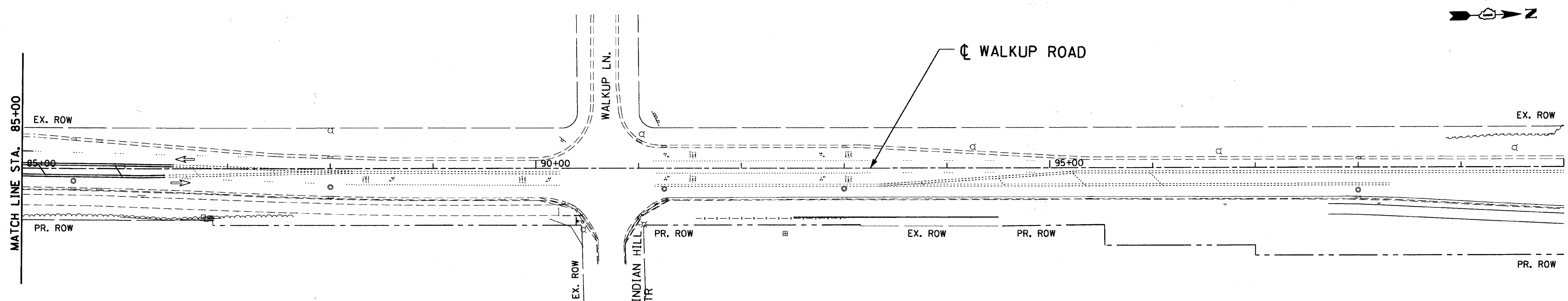
SCALE: 1" = 50' DRAWN BY: CC
DATE: 06/10/11 CHECKED BY: KA

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE: 312/616-0000

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	077
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522





LEGEND

- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY PAVEMENT FROM PREVIOUS STAGE
- BARRICADE, TYPE III, W/ TY A FLASHER
- PREVIOUS TRAFFIC PATTERN
- PR TRAFFIC PATTERN
- SIGN
- VERTICAL PANEL W/ STEADY BURNING LIGHT
- DRUMS WITH STEADY BURNING LIGHT @ 50' C-C
- TYPE B MONODIRECTIONAL FLASHING LIGHT

PAVEMENT MARKING LEGEND

① TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS

② TEMPORARY PAVEMENT MARKING -LINE 4 Inch (WHITE)

③ TEMPORARY PAVEMENT MARKING -LINE 4 Inch (YELLOW)

④ TEMPORARY PAVEMENT MARKING -LINE 6 Inch (WHITE)

⑤ TEMPORARY PAVEMENT MARKING -LINE 8 Inch (YELLOW)

⑥ TEMPORARY PAVEMENT MARKING -LINE 12 Inch (YELLOW)

⑦ TEMPORARY PAVEMENT MARKING -LINE 24 Inch (WHITE)

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

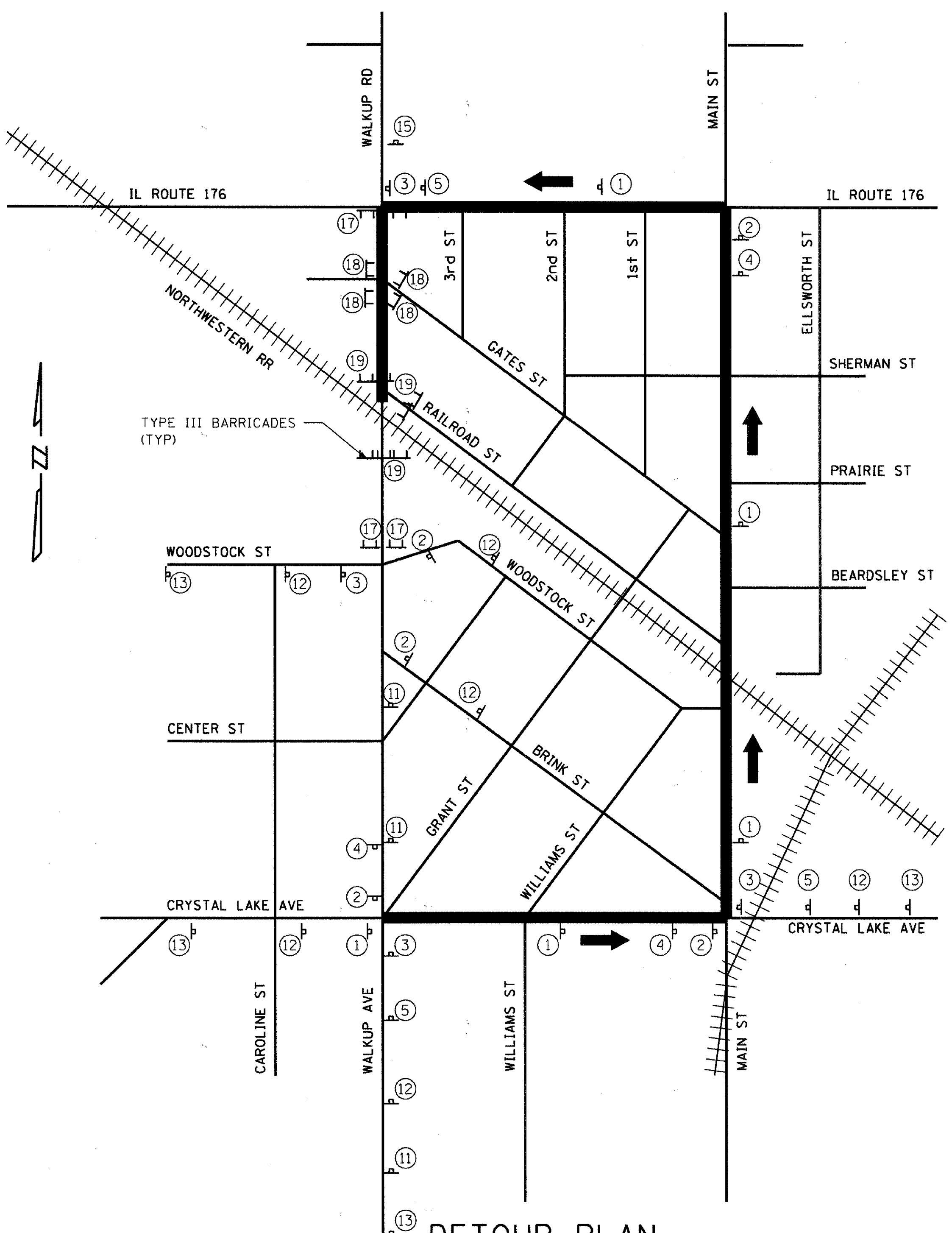
MOT & STAGE 3 CONSTRUCTION WALKUP ROAD STA 70+00 TO STA 100+00

SCALE: 1" = 50' DRAWN BY: CC
DATE: 06/10/11 CHECKED BY: KA

TENG

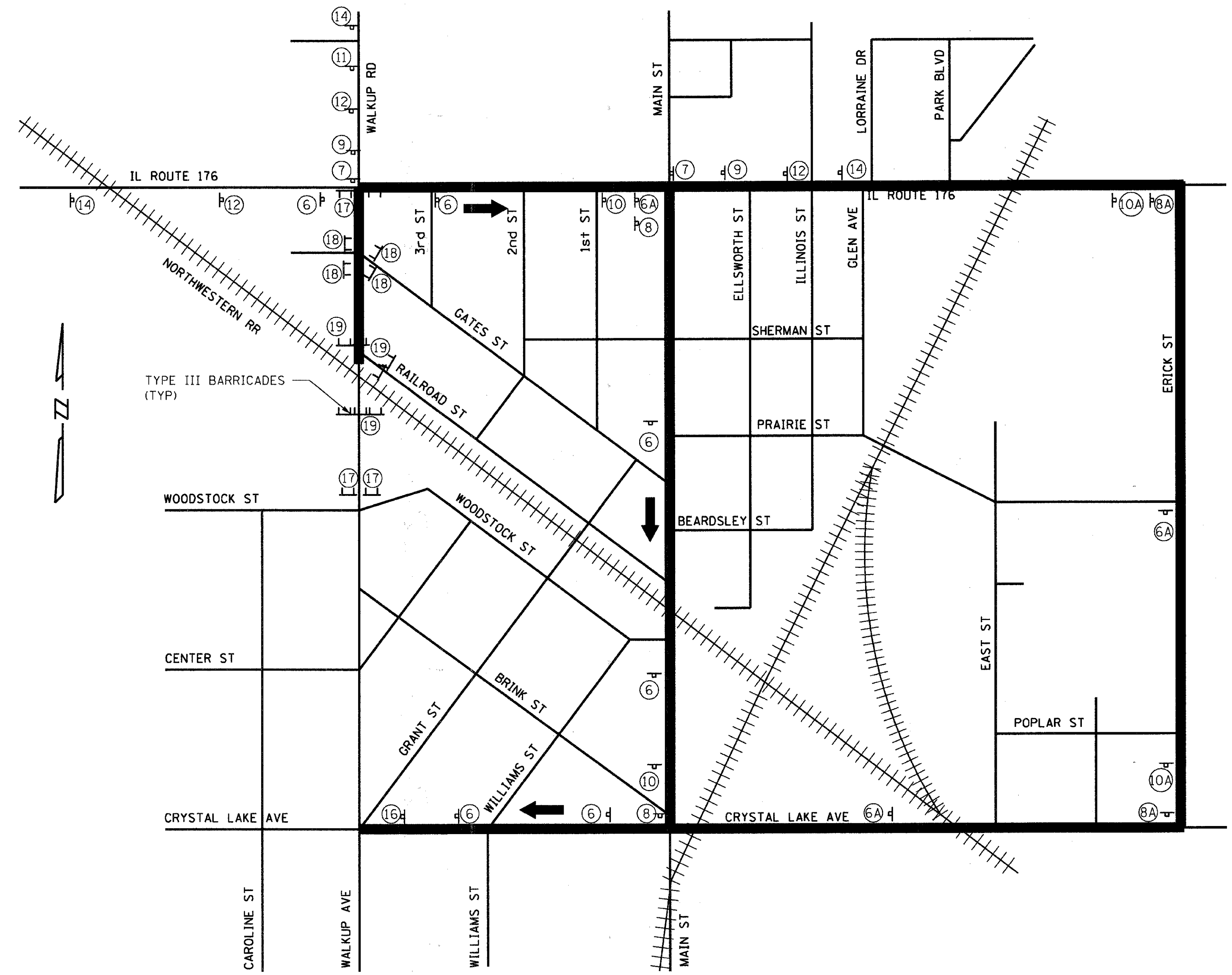
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	078
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



DETOUR PLAN

NB ONLY



DETOUR PLAN

SB ONLY

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

WALKUP ROAD
STAGE 1 CONSTRUCTION
DETOUR ROUTE PLAN

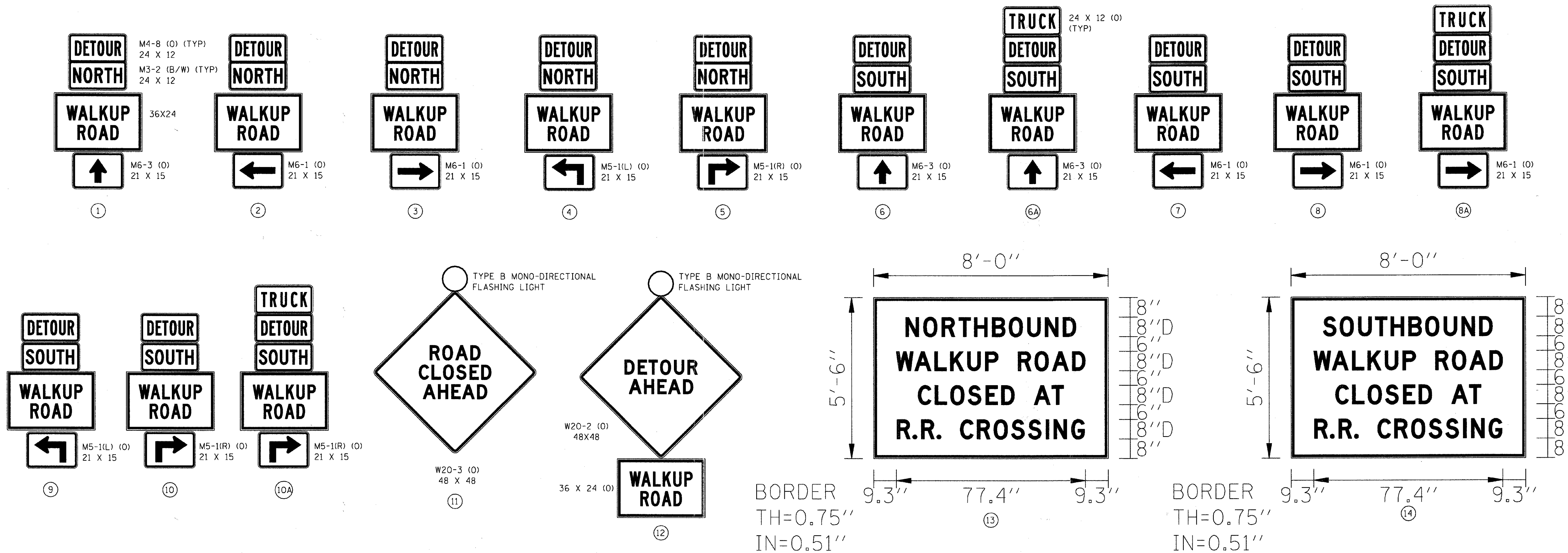
SCALE: N.T.S. DRAWN BY: KV
DATE: 04/15/11 CHECKED BY: KA

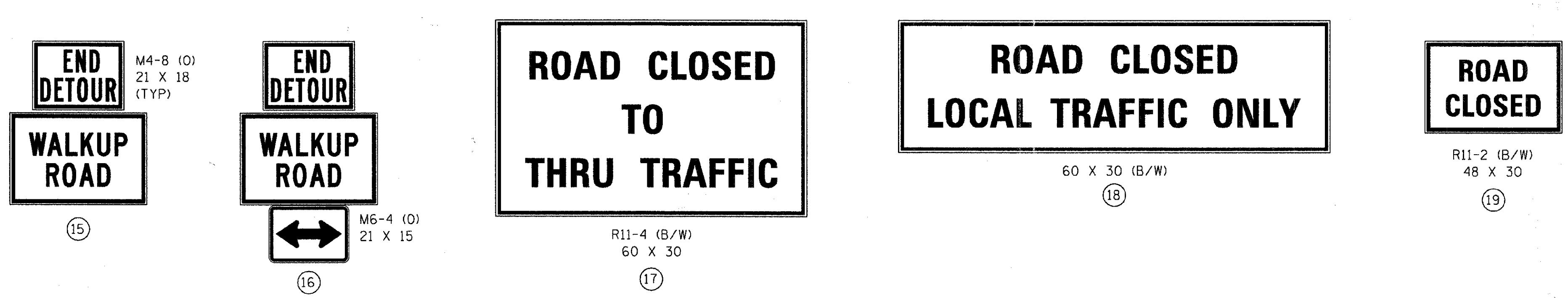
TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N MICHIGAN AVE CHICAGO, IL 60601

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	079
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522





NOTE:
ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE SHOWN ON PLANS.

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

WALKUP ROAD
STAGE 1 CONSTRUCTION
DETOUR ROUTE SIGNING DETAIL

SCALE: N.T.S. DRAWN BY: KV
DATE: 04/15/11 CHECKED BY: KA

TENG
TENG & ASSOCIATES, INC.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	080
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

EROSION AND SEDIMENT CONTROL GENERAL NOTES

1. THE WORK DESCRIBED ON THESE DRAWINGS ARE AN INTEGRAL PART OF THE STORM WATER POLLUTION PREVENTION PLAN THAT IS DESIGNED TO COMPLY WITH THE CONDITIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER PERMIT FOR CONSTRUCTION SITE ACTIVITIES.

2. THE PURPOSE OF THE EROSION AND SEDIMENT CONTROL MEASURES INCLUDED FOR THIS PROJECT IS TO LIMIT THE SEDIMENT POLLUTION IMPACT, OF ANY STORM WATER DISCHARGES THAT ORIGINATE ON THIS SITE OR OFF-SITE FLOWS THAT FLOW OVER THE DISTURBED AREAS, OR DOWNSTREAM AREAS.

3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT SEDIMENT TRANSPORT OFF THE SITE IS REDUCED BY A COMBINATION OF MINIMIZATION OF EROSION AT THE SOURCE AND INSTALLATION OF SPECIFIC MEASURES TO CONTROL OR REDUCE THE TRANSPORT OF SEDIMENT. A COPY OF THE EROSION AND SEDIMENT CONTROL SCHEDULE BEING IMPLEMENTED BY THE CONTRACTOR WILL BE ON THE CONSTRUCTION SITE AT ALL TIMES.

4. ALL RUNOFF ORIGINATING ON DISTURBED AREAS ASSOCIATED WITH THIS PROJECT WILL PASS THROUGH ONE OR MORE MEASURES THAT WILL MINIMIZE THE OFF-SITE SEDIMENT IMPACTS OF THE CONSTRUCTION ACTIVITY. SEE STANDARD TEMPORARY EROSION CONTROL SYSTEM DETAILS. THE MINIMUM DIMENSIONS FOR SEDIMENT BASINS ARE (5'W X 10'L X 2'D).

5. ALL PERMANENT STORM WATER DETENTION BASINS SHALL BE CONSTRUCTED, FOR THE PORTION OF THE SITE THAT IS WITHIN THE DRAINAGE AREA OF THE DETENTION BASIN, BEFORE CLEARING AND TOPSOIL STRIPPING OF THE REMAINDER OF THAT PORTION OF THE SITE PROCEEDS.

6. DISTURBED AREAS ARE TO BE PROTECTED FROM EROSION IN A TIMELY MANNER. UPON COMPLETION OF GRADING OR CONSTRUCTION, THE AREA SHALL BE STABILIZED (USING PERMANENT MEASURES WHEN POSSIBLE) WITHIN 7 CALENDAR DAYS.

7. WHEN THE CONTRACTOR REQUESTS A CHANGE TO POSTPONE COMPLETION OF THE EXCAVATION OF A SPECIFIC AREA AS A CONTINUOUS OPERATION AND PLACING THE TOPSOIL AS DEFINED IN THE STANDARD SPECIFICATIONS, THE ENGINEER MAY ALLOW THE CONTRACTOR TO STABILIZE THE AREA USING TEMPORARY STABILIZATION WITH STRAW MULCH PROVIDING THE FOLLOWING CONDITIONS ARE MET:
(A) ALL AREAS BEING STABILIZED ARE 3:1 SLOPES OR FLATTER.
(B) THE CONTRACTOR BEARS THE COST OF PREPARING THE SEED BED AND STABILIZING THE AREA WITH TEMPORARY STABILIZATION WITH STRAW MULCH.
(C) ALL REQUIRED SEDIMENT CONTROL MEASURES FOR THE SECTION OF ROAD IN QUESTION HAVE BEEN INSTALLED ARE BEING MAINTAINED.

8. TOPSOIL WILL BE PLACED ON FINAL SLOPES WHICH WILL NOT BE DISTURBED BY FUTURE CONSTRUCTION. TOPSOIL WILL NOT BE PLACED ON SURFACES WHICH WILL BE PAVED IN THE FUTURE, NOR ON TEMPORARILY STEEP SLOPES.

9. THE RESIDENT ENGINEER SHALL HAVE FINAL DETERMINATION OF THE PLACEMENT AND LOCATION OF THE PERIMETER EROSION BARRIER.

10. SEE EROSION AND SEDIMENT CONTROL PLANS FOR PLACEMENT OF ALL EROSION AND SEDIMENT CONTROL PAY ITEMS.

11. SEE DRAINAGE PLAN & PROFILE SHEETS FOR FINAL DRAINAGE STRUCTURE, STORM SEWER AND PIPE CULVERT INFORMATION.

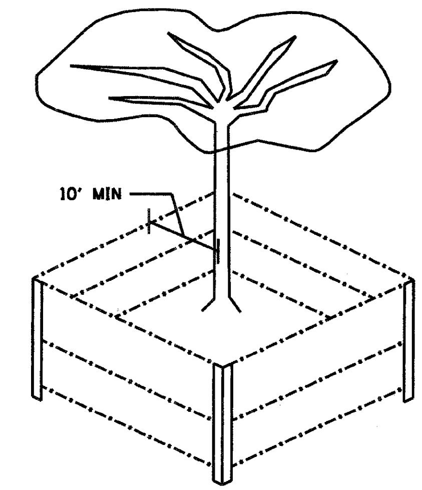
12. SEE DRAINAGE PLAN & PROFILE SHEETS FOR INFORMATION CONCERNING THE REMOVAL, ADJUSTMENT, RECONSTRUCTION, ETC. OF EXISTING STRUCTURE AND PIPES.

13. SEE PAVT MARKING & LANDSCAPING SHEETS FOR LOCATION OF PERMANENT EROSION CONTROL MEASURES.

14. ONE DITCH CHECK SHALL BE PLACED FOR EACH ONE FOOT DROP IN THE DITCH LINE ELEVATION AND TWO DITCH CHECKS SHALL BE PLACED APPROACHING INLETS AND PIPES.

15. THE COST OF STABILIZED CONSTRUCTION ENTRANCES REQUIRED TO PREVENT THE TRACKING OF SEDIMENTS ONTO ROADWAYS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF EARTH EXCAVATION.

16. THE COST OF SILT BAGS/SEDIMENTATION BAGS, ON THE DISCHARGE END OF PUMP HOSES, REQUIRED TO PRESENT THE FLOW OF SEDIMENT LADEN WATER FROM BEING RELEASED DOWNSTREAM WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF EARTH EXCAVATION.



TREE TRUNK PROTECTION
FOR MEDIUM AND LARGE TREES

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

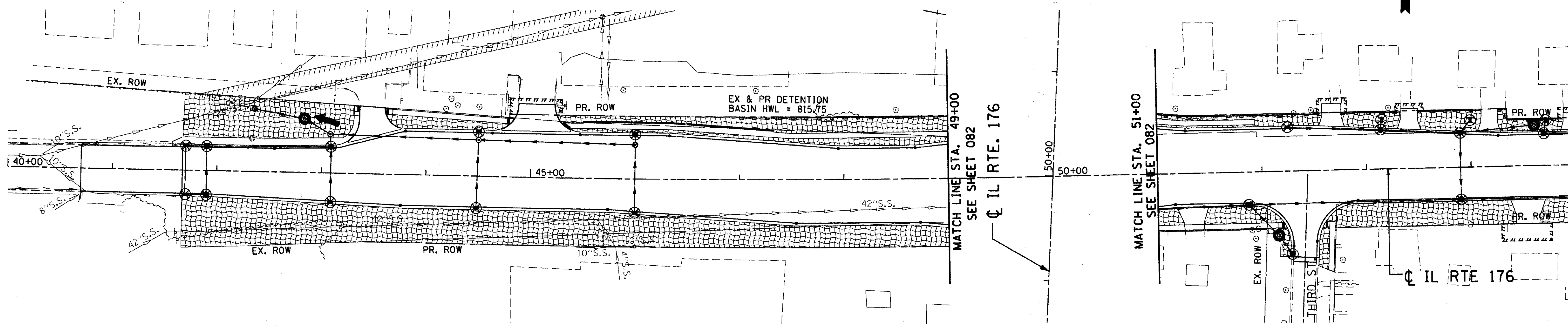
EROSION & SEDIMENT CONTROL
GENERAL NOTES

SCALE: N.T.S. DRAWN BY: LK
DATE: 04/15/11 CHECKED BY: TL

TENG

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	081
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

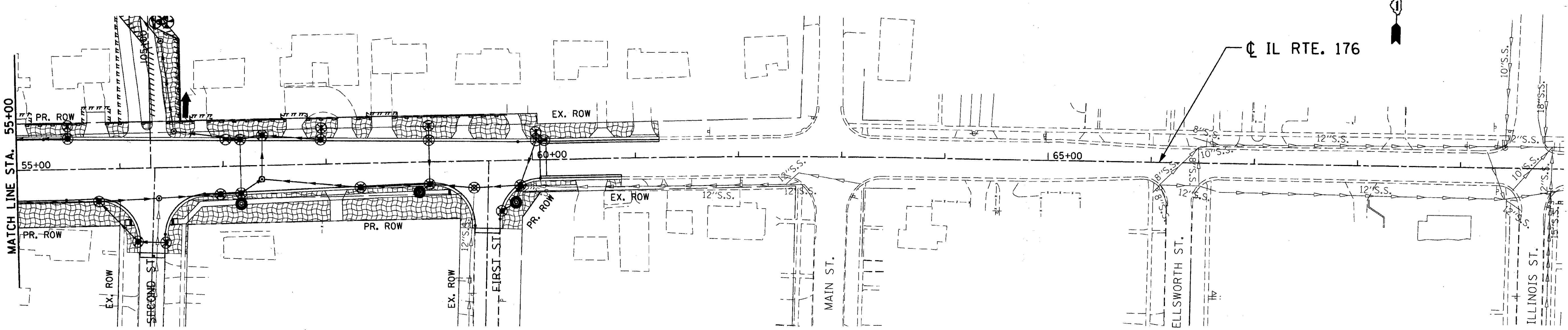
CONTRACT NO: 63522



LEGEND

SEE SCHEDULE OF QUANTITIES FOR EROSION & SEDIMENT CONTROL DETAILS

- TREE TRUNK PROTECTION
- TEMPORARY EROSION CONTROL SEEDING
- WETLAND
- STONE RIPRAP
- INLET FILTER
- DRAINAGE OUTLET
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER
- TEMPORARY SEDIMENT BASIN (5'W X 10'L X 2'D) & AGGREGATE (EROSION CONTROL) AT LIP OF BASIN



REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

EROSION & SEDIMENT CONTROL ILLINOIS ROUTE 176 STA 40+00 TO STA 70+00

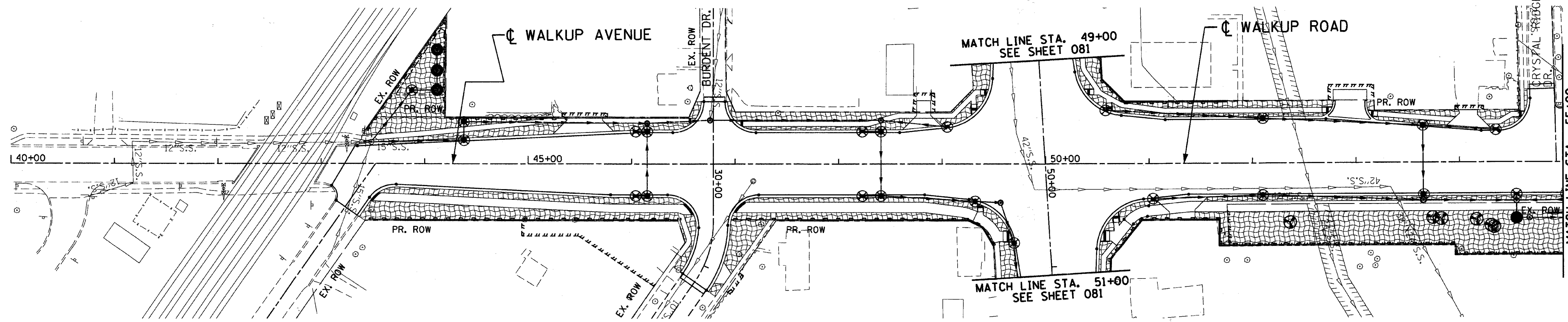
SCALE: 1" = 50'
DRAWN BY: LK
DATE: 04/15/11
CHECKED BY: TL

TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE CHICAGO, IL 60601

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	082
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

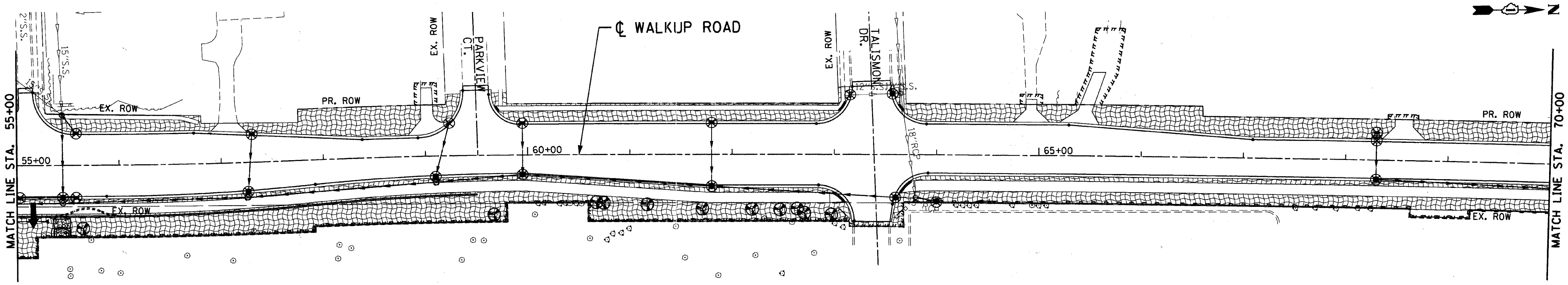
CONTRACT NO: 63522



LEGEND

SEE SCHEDULE OF QUANTITIES FOR EROSION & SEDIMENT CONTROL DETAILS

- TREE TRUNK PROTECTION
- TEMPORARY EROSION CONTROL SEEDING
- WETLAND
- STONE RIPRAP
- INLET FILTER
- DRAINAGE OUTLET
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER
- TEMPORARY SEDIMENT BASIN (5'W X 10'L X 2'D) & AGGREGATE (EROSION CONTROL) AT LIP OF BASIN



REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

EROSION & SEDIMENT CONTROL WALKUP ROAD STA 40+00 TO STA 70+00

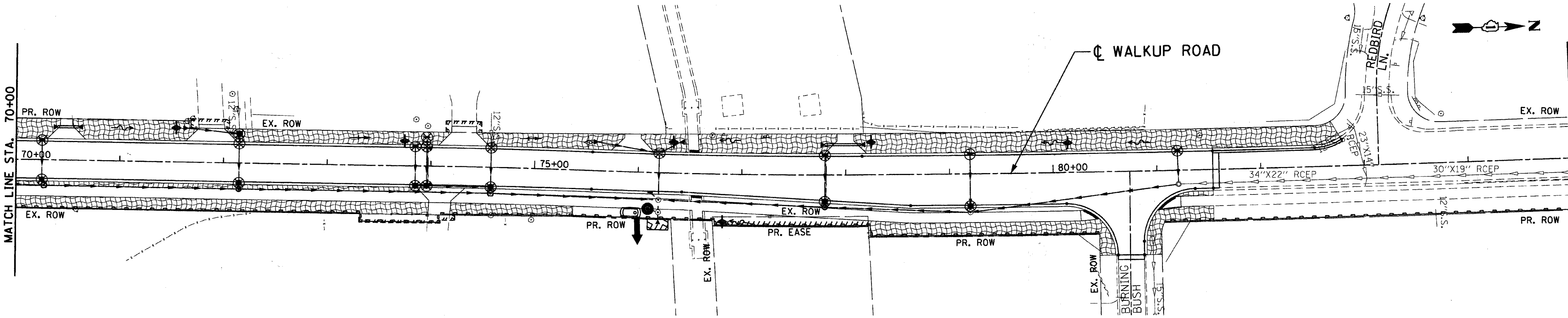
SCALE: 1" = 50'
DRAWN BY: LK
DATE: 04/15/11
CHECKED BY: TL

TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	083
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

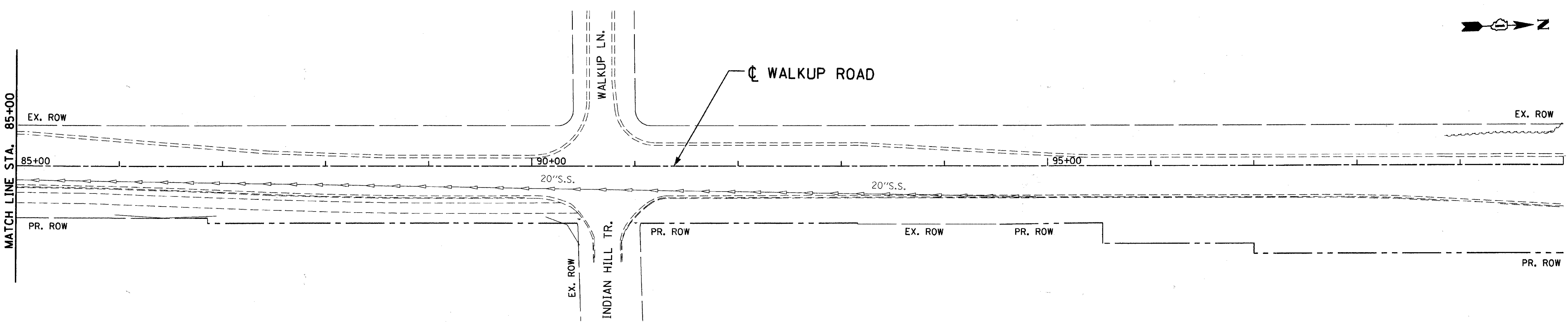
CONTRACT NO: 63522



LEGEND

SEE SCHEDULE OF QUANTITIES FOR EROSION & SEDIMENT CONTROL DETAILS

- TREE TRUNK PROTECTION
- TEMPORARY EROSION CONTROL SEEDING
- WETLAND
- STONE RIPRAP
- INLET FILTER
- DRAINAGE OUTLET
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER
- TEMPORARY SEDIMENT BASIN (5'W X 10'L X 2'D) & AGGREGATE (EROSION CONTROL) AT LIP OF BASIN



REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

EROSION & SEDIMENT CONTROL
WALKUP ROAD
STA 70+00 TO STA 100+00

SCALE: 1" = 50' DRAWN BY: LK

DATE: 04/15/11 CHECKED BY: TL

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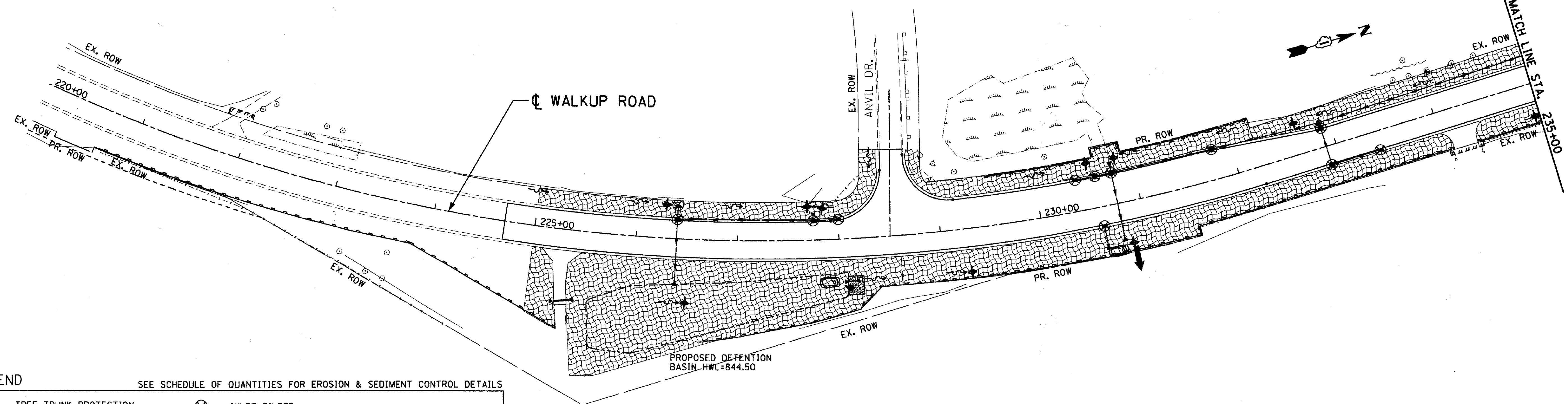
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE: 312/616-0000

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	084
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

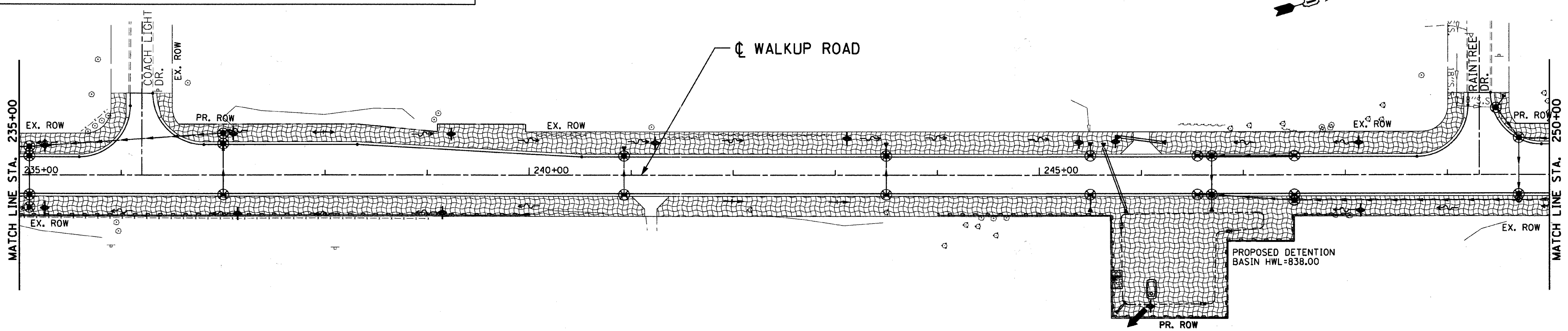
CONTRACT NO: 63522



LEGEND

SEE SCHEDULE OF QUANTITIES FOR EROSION & SEDIMENT CONTROL DETAILS

- TREE TRUNK PROTECTION
- TEMPORARY EROSION CONTROL SEEDING
- WETLAND
- STONE RIPRAP
- INLET FILTER
- DRAINAGE OUTLET
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER
- TEMPORARY SEDIMENT BASIN (5'W X 10'L X 2'D) & AGGREGATE (EROSION CONTROL) AT LIP OF BASIN



REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

EROSION & SEDIMENT CONTROL WALKUP ROAD STA 220+00 TO STA 250+00

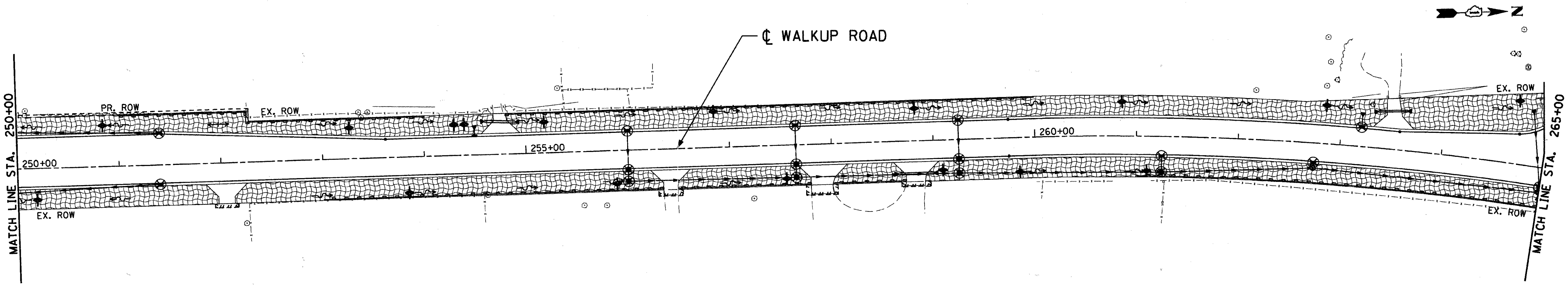
SCALE: 1" = 50' DRAWN BY: LK
DATE: 04/15/11 CHECKED BY: TL

TENG

TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS 205 N. MICHIGAN AVE. CHICAGO, IL 60601

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	085
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

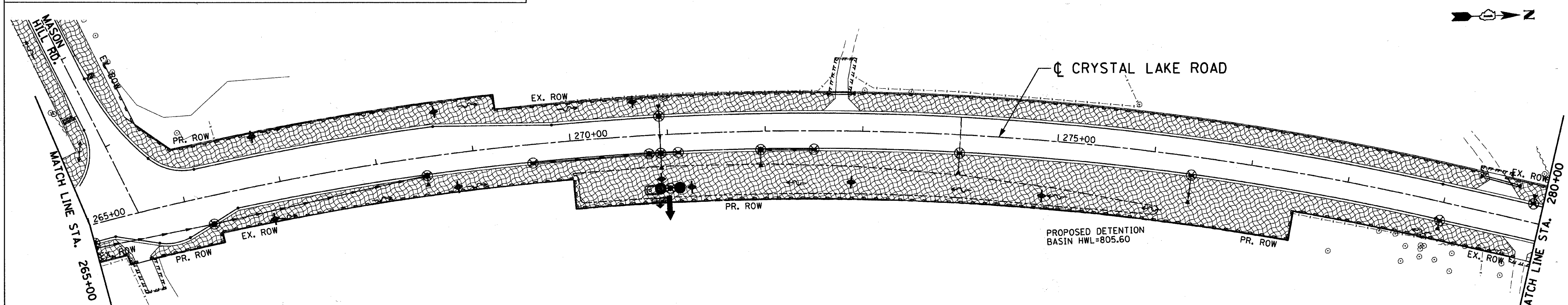
CONTRACT NO: 63522



LEGEND

SEE SCHEDULE OF QUANTITIES FOR EROSION & SEDIMENT CONTROL DETAILS

- TREE TRUNK PROTECTION
- TEMPORARY EROSION CONTROL SEEDING
- WETLAND
- STONE RIPRAP
- INLET FILTER
- DRAINAGE OUTLET
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER
- TEMPORARY SEDIMENT BASIN (5'W X 10'L X 2'D) & AGGREGATE (EROSION CONTROL) AT LIP OF BASIN



REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

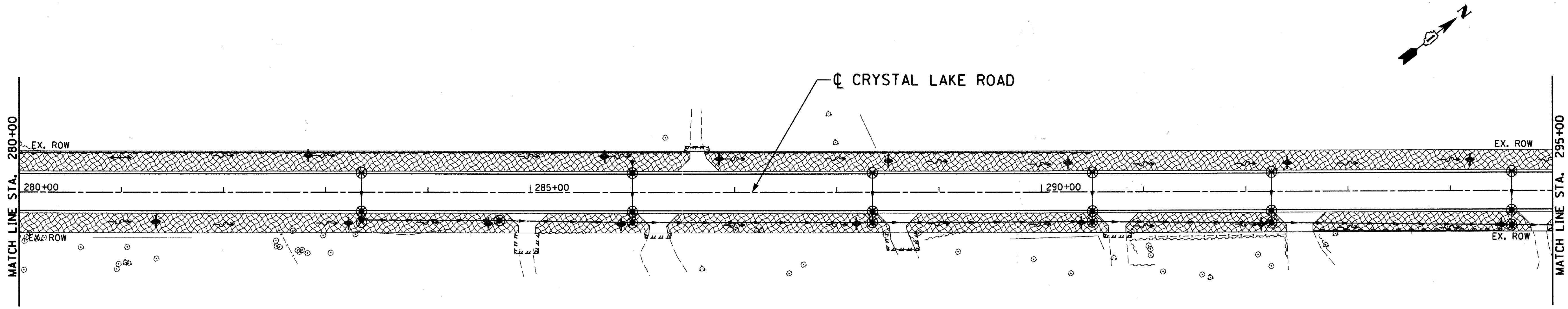
EROSION & SEDIMENT CONTROL WALKUP/CRYSTAL LAKE ROAD STA 250+00 TO STA 280+00

SCALE: 1" = 50' DRAWN BY: LK
DATE: 04/15/11 CHECKED BY: TL

TENG
TENG & ASSOCIATES, INC.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	086
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

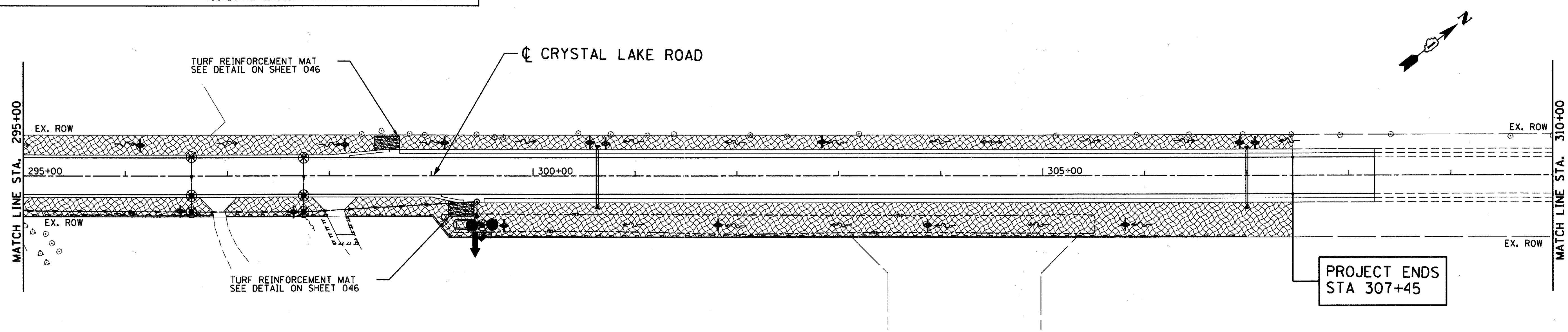
CONTRACT NO: 63522



LEGEND

SEE SCHEDULE OF QUANTITIES FOR EROSION & SEDIMENT CONTROL DETAILS

- TREE TRUNK PROTECTION
- TEMPORARY EROSION CONTROL SEEDING
- WETLAND
- STONE RIPRAP
- INLET FILTER
- DRAINAGE OUTLET
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER
- TEMPORARY SEDIMENT BASIN (5'W X 10'L X 2'D) & AGGREGATE (EROSION CONTROL) AT LIP OF BASIN



REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

EROSION & SEDIMENT CONTROL CRYSTAL LAKE ROAD STA 280+00 TO STA 310+00

SCALE: 1" = 50' DRAWN BY: LK

DATE: 04/15/11 CHECKED BY: TL

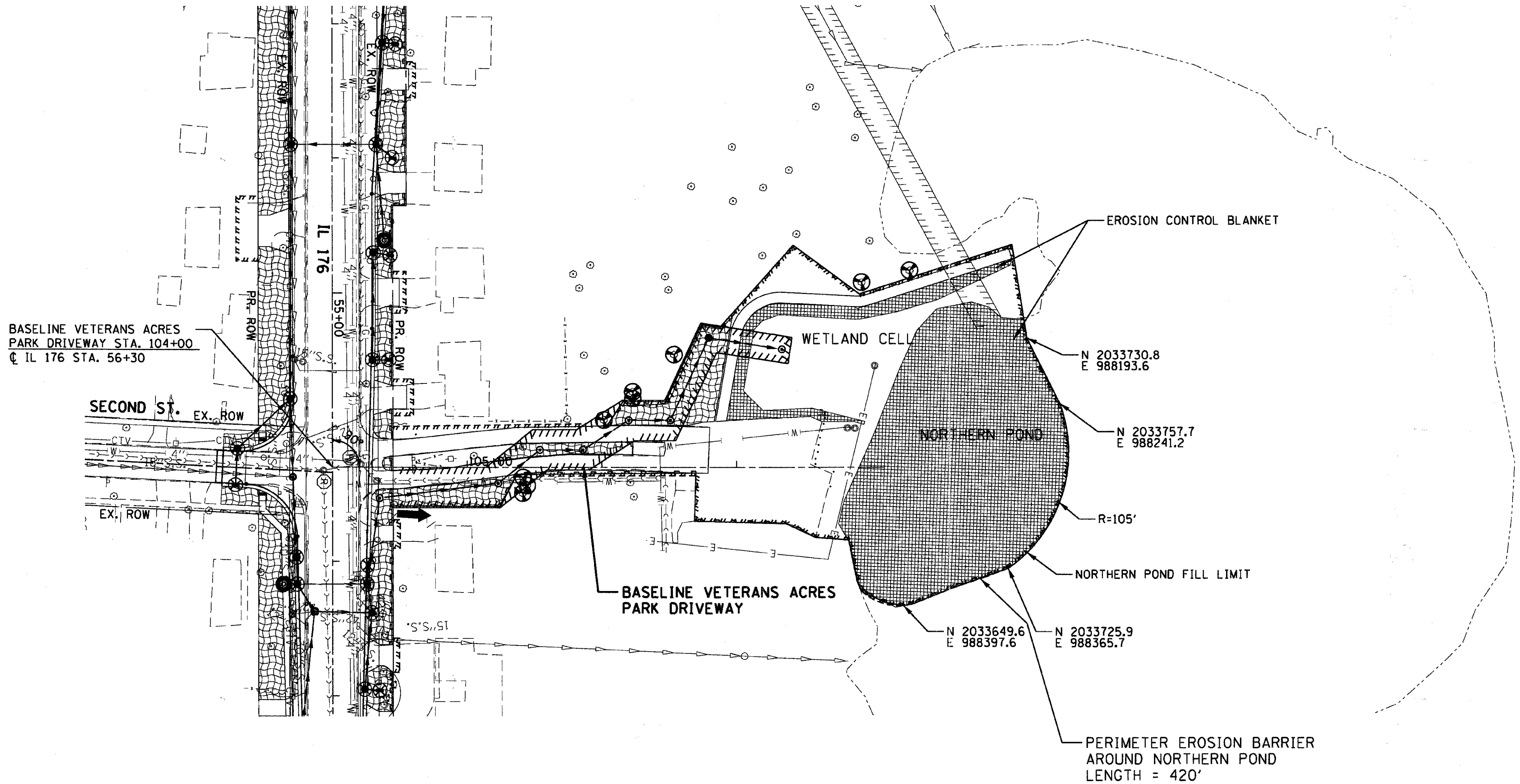
TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	087
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

Z



LEGEND

SEE SCHEDULE OF QUANTITIES FOR EROSION & SEDIMENT CONTROL DETAILS

- TREE TRUNK PROTECTION
- TEMPORARY EROSION CONTROL SEEDING
- WETLAND
- STONE RIPRAP
- INLET FILTER
- DRAINAGE OUTLET
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER
- TEMPORARY SEDIMENT BASIN (5'W X 10'L X 2'D) & AGGREGATE (EROSION CONTROL) AT LIP OF BASIN

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

EROSION & SEDIMENT CONTROL VETERAN ACRES PARK STA 104+00 TO STA 108+00

SCALE: 1" = 50' DRAWN BY: LK

DATE: 06/10/11 CHECKED BY: TL

TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE: 312/616-0000

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	088
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

DRAINAGE SCHEDULE SHEET 1 OF 6

STRUCT. NO.	DESCRIPTION	BASELINE			INVERTS				PIPE CONNECTIONS (PIPE NO. - PIPE SIZE)				PROP RIM ELEV	SHEET NO.	INLET FILTER	UNDERDRAIN CONNECTION
		STATION	OFFSET (FT)	DIR.	NORTH	SOUTH	EAST	WEST	NORTH	SOUTH	EAST	WEST				
400	CB TA 4 DIA T24F&G	44+38	22.8	LT	--	918.00	--	917.20	--	416 - DIA 15"	--	400 - DIA 15"	922.18	096	YES	--
401	CB TA 4 DIA T1F OL	44+38	40.5	LT	917.00	--	917.00	--	401 - DIA 15"	--	400 - DIA 15"	--	922.35	096	YES	--
402	INLETS TA T24F&G	46+04	31.0	LT	916.00	--	--	--	402 - DIA 12"	--	--	--	919.64	096	YES	--
403	INLETS TA T24F&G	46+04	31.0	RT	916.00	--	--	--	403 - DIA 12"	--	--	--	919.64	096	YES	--
404	MAN TA 4 DIA T1F CL	46+15	39.0	LT	915.15	915.40	915.50	--	407 - DIA 18"	401 - DIA 15"	404 - DIA 12"	--	920.25	096	--	--
405	CB TA 4 DIA T24F&G	46+15	31.0	LT	--	915.90	915.60	915.60	--	402 - DIA 12"	405 - DIA 12"	404 - DIA 12"	919.65	096	YES	--
406	CB TA 4 DIA T24F&G	46+15	31.0	RT	--	915.90	--	915.90	--	403 - DIA 12"	--	405 - DIA 12"	919.65	096	YES	--
407	MAN TA 5 DIA T1F CL	46+76	42.0	LT	914.70	914.75	--	915.45	408 - DIA 18"	407 - DIA 18"	--	EP - DIA 12"	920.59	096	--	--
408	INLETS TA T24F&G	48+23	31.0	LT	915.70	--	--	--	409 - DIA 12"	--	--	--	919.30	096	YES	--
409	INLETS TA T24F&G	48+23	31.0	RT	915.00	--	--	--	410 - DIA 12"	--	--	--	919.30	096	YES	--
410	MAN TA 4 DIA T1F CL	48+41	42.0	LT	914.20	913.90	913.20	--	413 - DIA 12"	408 - DIA 18"	411 - DIA 18"	--	919.98	096	--	--
411	CB TA 4 DIA T24F&G	48+41	31.0	LT	--	915.50	913.10	913.10	--	409 - DIA 12"	412 - DIA 18"	411 - DIA 18"	919.28	096	YES	--
412	CB TA 4 DIA T24F&G	48+41	31.0	RT	912.60	914.90	--	912.60	414 - DIA 24"	410 - DIA 12"	--	412 - DIA 18"	919.28	096	YES	--
413	INLETS TA T24F&G	49+05	35.6	LT	--	914.50	--	--	--	413 - DIA 12"	--	--	919.48	096	YES	--
414	CB TA 4 DIA T24F&G	49+32	36.3	RT	905.40	912.10	--	--	415 - DIA 24"	414 - DIA 24"	--	--	919.70	096	YES	--
415	CB TA 4 DIA T24F&G	50+75	34.7	RT	--	--	905.20	905.20	--	--	4013 - DIA 24"	422 - DIA 24"	918.98	096	YES	--
416	MAN TA 5 DIA T1F CL	43+48	20.7	LT	919.00	918.54	918.22	909.90	416 - DIA 15"	EP - DIA 12"	EP - DIA 15"	419 - DIA 15"	927.15	096	--	--
417	CB TA 4 DIA T1F OL	43+88	70.6	LT	910.00	--	910.00	--	417 - DIA 15"	--	419 - DIA 15"	--	920.00	096	YES	--
418	DRYWELL	44+12	71.0	LT	--	910.05	--	910.05	--	417 - DIA 15"	--	420 - DIA 12"	920.00	096	--	--
419	DRYWELL	44+12	90.0	LT	--	--	910.10	910.10	--	--	420 - DIA 12"	421 - DIA 12"	920.00	096	--	--
420	DRYWELL	44+12	110.0	LT	--	--	910.15	--	--	--	421 - DIA 12"	--	920.00	096	--	--
421	MAN TA 4 DIA T1F CL	49+57	37.4	RT	--	905.33	905.33	--	--	415 - DIA 24"	422 - DIA 24"	--	920.05	096	--	--
500	INLETS TA T24F&G	50+73	47.2	LT	911.50	--	--	--	500 - DIA 12"	--	--	--	918.60	096	YES	--
501	INLETS TA T24F&G	51+04	34.4	RT	910.50	--	--	--	523 - DIA 12"	--	--	--	918.13	096	YES	--
502	CB TA 4 DIA T24F&G	52+10	43.0	LT	910.00	910.00	--	--	502 - DIA 12"	500 - DIA 12"	--	--	915.07	096	YES	--
503	CB TA 4 DIA T24F&G	53+65	35.5	LT	907.50	908.50	904.00	--	505 - DIA 12"	502 - DIA 12"	503 - DIA 18"	--	912.43	096	YES	--
504	MAN TA 6 DIA T1F CL	53+65	36.5	RT	902.00	908.50	--	903.40	506 - DIA 42"	501 - DIA 12"	--	504 - DIA 18"	912.93	096	--	--
505	CB TA 4 DIA T24F&G	53+65	31.0	RT	--	--	903.50	903.50	--	--	504 - DIA 18"	503 - DIA 18"	912.51	096	YES	--
506	INLETS TA T24F&G	54+35	31.0	LT	--	907.90	--	--	--	505 - DIA 12"	--	--	911.89	096	YES	--
507	CB TA 4 DIA T24F&G	55+45	31.0	RT	906.80	906.80	903.25	903.25	513 - DIA 12"	512 - DIA 12"	522 - DIA 24"	510 - DIA 24"	911.74	097	YES	--
508	MAN TA 6 DIA T1F CL	55+45	36.5	RT	901.80	901.80	--	903.20	514 - DIA 42"	507 - DIA 42"	--	522 - DIA 24"	912.32	097	--	--
509	INLETS TA T24F&G	55+03	31.0	RT	907.00	--	--	--	512 - DIA 12"	--	--	--	911.68	097	YES	--
510	MAN TA 6 DIA T1F CL	54+55	37.5	RT	901.70	901.70	901.70	907.00	507 - DIA 42"	506 - DIA 42"	508 - DIA 30"	525 - DIA 12"	912.19	096	--	--
511	MAN TA 5 DIA T1F CL	55+44	49.2	LT	NE906	903.68	903.50	903.76	NE 511 - DIA 15"	EP - DIA 15"	510 - DIA 24"	EP - DIA 15"	912.00	097	--	--
512	INLETS TA T24F&G	55+58	31.0	LT	--	--	--	908.00	--	--	--	511 - DIA 15"	911.78	097	YES	--
513	INLETS TA T24F&G	55+58	31.0	RT	--	907.00	--	--	--	513 - DIA 12"	--	--	911.78	097	YES	--
514	DRYWELL	54+55	54.0	RT	901.55	--	--	901.55	524 - DIA 30"	--	--	508 - DIA 30"	909.50	096	--	--
515	INLETS TA T24F&G	57+31	27.3	LT	--	--	910.00	--	--	--	515 - DIA 18"	--	913.80	097	YES	--
516	MAN TA 6 DIA T1F CL	57+25	33.8	RT	902.00	902.00	--	908.90	517 - DIA 42"	514 - DIA 42"	--	516 - DIA 12"	914.26	097	--	--
517	CB TA 4 DIA T24F&G	57+26	28.3	RT	--	--	909.00	909.00	--	--	516 - DIA 12"	515 - DIA 18"	913.69	097	YES	--
518	MAN TA 6 DIA T1F CL	59+10	25.6	RT	909.00	902.20	--	911.40	520 - DIA 24"	517 - DIA 42"	--	518 - DIA 12"	918.21	097	--	--
519	INLETS TA T24F&G	59+24	31.5	LT	--	--	912.00	--	--	--	519 - DIA 12"	--	917.62	097	YES	--
520	CB TA 5 DIA T24F&G	59+10	20.1	RT	--	--	911.50	911.50	--	--	518 - DIA 12"	519 - DIA 12"	917.62	097	YES	--
521	INLETS TA T24F&G	59+95	31.0	LT	--	--	915.00	--	--	--	521 - DIA 12"	--	919.18	097	YES	--
522	CB TA 4 DIA T24F&G	59+95	19.1	RT	911.50	911.50	--	914.50	600 - DIA 24"	520 - DIA 24"	--	521 - DIA 12"	919.42	097	YES	--
523	PRC FLAR END SEC 30	55+27	54.0	RT	--	901.00	--	--	--	509 - DIA 30"	--	--	--	097	--	--
524	CB TA 4 DIA T24F&G	52+10	31.0	RT	909.50	909.50	--	--	501 - DIA 12"	523 - DIA 12"	--	--	915.07	096	YES	--
525	INLETS TA T24F&G	54+55	31.0	RT	--	--	907.10	--	--	--	525 - DIA 12"	--	911.79	096	YES	--
526	MH TA 6D W/2 T1FCL RP	54+68	54.0	RT	901.45	901.45	--	--	509 - DIA 30"	524 - DIA 30"	--	--	909.00	096	--	--
601	INLETS TA T24F&G	61+80	31.0	LT	--	--	918.00	--	--	--	601 - DIA 12"	--	923.02	097	YES	--
602	CB TA 4 DIA T24F&G	61+80	31.0	RT	918.00	915.00	--	917.00	602 - DIA 18"	600 - DIA 24"	--	601 - DIA 12"	923.02	097	YES	--
603	CB TA 4 DIA T24F&G	63+60	41.5	RT	920.27	920.27	--	--	EP - DIA 18"	602 - DIA 18"	--	--	926.66	097	YES	--
604	MAN TA 4 DIA T24F&G	68+30	19.0	LT	--	--	925.05	925.05	--	--	603 - DIA 12"	605 - DIA 12"	928.81	097	--	--
605	CB TA 5 DIA T24F&G	68+30	19.0	RT	922.40	--	--	924.80	604 - S34", R22"	--	--	603 - DIA 12"	928.81	097	YES	--
606	INLETS TA T8G	68+30	26.8	LT	--	--	925.10	--	--	--	605 - DIA 12"	--	928.00	097	YES	--
607	CB TC T8G	64+00	45.1	RT	--	920.60	--	--	--	606 - DIA 15"	--	--	925.40	097	YES	--
608	INLETS TA T24F&G	63+16	58.4	LT	922.29	--	--	--	EP - DIA 12"	--	--	--	925.20	097	YES	--
609	CB TA 4 DIA T24F&G	63+57	59.6	LT	921.98	922.08	--	--	EP - DIA 12"	EP - DIA 12"	--	--	925.30	097	YES	--
700	INLETS TA T24F&G	70+25	19.0	LT	--	--	924.70	--	--	--	700 - DIA 12"	--	927.70	098	YES	--
701	CB TA 4 DIA T24F&G	70+25	19.0	RT	--	--	924.40	924.40	--	--	701 - DIA 12"	700 - DIA 12"	927.70	098	YES	--
702	MAN TA 6 DIA T1F CL	70+27	24.6	RT	922.15	922.15	--	924.37	703 - S34", R22"	604 - S34", R22"	--	701 - DIA 12"	928.10	098	--	--
703	PRC FLAR END SEC 15	70+40	32.2	LT	925.50	--	--	--	702 - DIA 15"	--	--	--	--	098	--	--
704	PRC FLAR END SEC 15	70+60	32.3	LT	--	925.32	--	--	--	702 - DIA 15"	--	--	--	098	--	--
705	PRC FLAR END SEC 12	71+65	33.0	LT	924.50	--	--	--	704 - DIA 12"	--	--	--	--	098	--	--
706	CB TA 4 DIA T1F CL	72+15	28.3	LT	--	923.88	923.88	923.88	--	704 - DIA 12"	705 - DIA 12"	EP - DIA 12"	926.75	098	--	--
707	MAN TA 4 DIA T24F&G	72+15	19.0	LT	--	--	923.00	923.85	--	--	706 - DIA 12"	705 - DIA 12"	926.62	098	--	--
708	CB TA 4 DIA T24F&G	72+15	19.0	RT	--	--	922.75	922.75	--	--	707 - DIA 15"	706 - DIA 12"	926.62	098	YES	--
709	MAN TA 6 DIA T1F CL	72+15	25.0	RT	921.88	921.88	--	922.72	708 - S45", R29"	703 - S34", R22"	--	707 - DIA 15"	927.03	098	--	--
710	INLETS TA T24F&G	73+85	19.0	LT	--	--	922.91	--	--	--	709 - DIA 12"	--	925.88	098	YES	--
711	CB TA 4 DIA T24F&G	73+85	19.0	RT	922.71	--	--	922.71	710 - DIA 12"	--	--	709 - DIA 12"	925.88	098	YES	--
712	INLETS TA T24F&G	73+96	28.0	LT	--	--	922.95	--	--	--	711 - DIA 12"	--	925.30	098	YES	--
713	MAN TA 4 DIA T24F&G	73+96	19.0	LT	--	--	922.88	922.88	--	--	712 - DIA 12"	711 - DIA 12"	925.88	098	--	YES
714	CB TA 4 DIA T24F&G	73+96	19.0	RT	922.68	922.68	--	922.68	713 - DIA 12"	710 - DIA 12"	--	712 - DIA 12"	925.88	098	YES	YES
715	MAN TA 4 DIA T24F&G	74+58	19.0	LT	--	--	922.68	923.10	--	--	715 - DIA 12"	714 - DIA 12"	926.03	098	--	--
716	CB TA 4 DIA T24F&G	74+58	19.0	RT	--	922.48	922.48	922.48	--	713 - DIA 12"	716 - DIA 12"	715 - DIA 12"	926.03	098	YES	--
717	MAN TA 6 DIA T1F CL	74+58	25.0	RT	922.27	921.65	--	922.45	717 - S45", R29"	708 - S45", R29"	--	716 - DIA 12"	926.43	098	--	--
718	PRC FLAR END SEC 15	75+60	28.0	LT	924.00	--	--	--	718 - DIA 15"	--	--	--	--	098	--	--
719	MAN TA 4 DIA T24F&G	76+20	19.0	LT	923.00	923.00	922.20	--	723 - DIA 15"	718 - DIA 15"	719 - DIA 24"	--	926.77	098	--	--

EP = CONNECT TO EXISTING PIPE
ES = CONNECT TO EXISTING STRUCTURE

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

DRAINAGE SCHEDULE
SHEET 1 OF 6

SCALE: N.T.S. DRAWN BY: LK
DATE: 06/10/11 CHECKED BY: TL

TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	089
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

STRUCT. NO.	DESCRIPTION	BASELINE STATION	BASELINE OFFSET (FT)	BASELINE DIR.	INVERTS NORTH	INVERTS SOUTH	INVERTS EAST	INVERTS WEST	PIPE CONNECTIONS (PIPE NO. - PIPE SIZE) NORTH	PIPE CONNECTIONS SOUTH	PIPE CONNECTIONS EAST	PIPE CONNECTIONS WEST	PROP RIM ELEV	SHEET NO.	INLET FILTER	UNDERDRAIN CONNECTION
721	MAN TA 9 DIA T1F CL	76+20	26.0	RT	921.50	924.5/921.5	921.50	922.00	725-S45",R29"	752-D12"/717-S45",R29"	722 - DIA 30"	719 - DIA 24"	927.15	098	--	--
724	PRC FLAR END SEC 15	76+40	30.1	LT	--	924.00	--	--	--	723 - DIA 15"	--	--	--	098	--	--
725	DRYWELL	76+10	35.0	RT	921.41	--	--	--	751 - DIA 24"	--	--	--	926.94	098	--	--
726	PRC FLAR END SEC 12	77+80	29.3	LT	925.60	--	--	--	726 - DIA 12"	--	--	--	--	098	--	--
727	INLETS TA T24F&G	77+80	19.0	LT	--	--	923.50	--	--	--	727 - DIA 12"	--	927.49	098	YES	YES
728	CB TA 4 DIA T24F&G	77+80	25.6	RT	--	--	924.00	923.20	--	--	728 - DIA 12"	727 - DIA 12"	927.36	098	YES	YES
729	MAN TA 6 DIA T1F CL	77+80	31.0	RT	921.66	923.23	--	923.95	729 - S45", R29"	725 - S45", R29"	--	728 - DIA 12"	927.81	098	--	--
730	PRC FLAR END SEC 12	78+15	29.3	LT	--	926.15	--	--	--	726 - DIA 12"	--	--	--	098	--	--
731	MAN TA 6 DIA T1F CL	79+20	37.0	RT	921.80	922.33	--	924.45	731 - S45", R29"	729 - S45", R29"	--	730 - DIA 12"	928.29	098	--	--
732	INLETS TA T24F&G	79+20	19.0	LT	--	--	925.00	--	--	--	721 - DIA 12"	--	928.13	098	YES	--
733	CB TA 4 DIA T24F&G	79+20	31.0	RT	--	--	924.50	924.50	--	--	730 - DIA 12"	721 - DIA 12"	927.89	098	YES	--
734	PRC FLAR END SEC 24	76+20	45.5	RT	--	--	--	922.40	--	--	--	724 - DIA 24"	--	098	--	--
750	MH TA 6D W/2 T1FCL RP	76+20	38.0	RT	--	921.40	922.42	921.45	--	751 - DIA 24"	724 - DIA 24"	722 - DIA 30"	926.69	098	--	--
754	INLETS TA T24F&G	76+12	19.0	RT	924.55	--	--	--	752 - DIA 12"	--	--	--	926.73	098	YES	--
800	INLETS TA T24F&G	81+20	19.0	LT	--	--	925.00	--	--	--	800 - DIA 12"	--	928.05	098	YES	--
801	MAN TA 6 DIA T1F CL	81+21	13.3	RT	922.94	922.78	--	924.70	EP - S34", R22"	731 - S45", R29"	--	800 - DIA 12"	928.26	098	--	--
2209	PRC FLAR END SEC 12	225+26	71.5	RT	849.00	--	--	--	2205 - DIA 12"	--	--	--	--	099	--	--
2210	PRC FLAR END SEC 12	225+41	68.8	RT	--	848.00	--	--	--	2205 - DIA 12"	--	--	--	099	--	--
2213	INLETS TA T8G	226+40	32.0	LT	--	--	844.30	--	--	--	2207 - DIA 12"	--	848.18	099	YES	--
2214	CB TA 4 DIA T24F&G	226+40	19.0	LT	843.18	--	843.18	844.20	2206 - DIA 15"	--	2210 - DIA 18"	2207 - DIA 12"	850.58	099	YES	--
2216	INLETS TA T24F&G	228+00	19.6	LT	--	844.05	--	--	--	2208 - DIA 12"	--	--	846.56	099	YES	--
2217	PRC FLAR END SEC 15	227+75	23.0	LT	--	--	844.19	--	--	--	2209 - DIA 15"	--	--	099	--	--
2218	CB TA 4 DIA T24F&G	227+75	19.0	LT	843.85	843.85	--	843.85	2208 - DIA 12"	2206 - DIA 15"	--	2209 - DIA 15"	847.19	099	YES	--
2219	PRC FLAR END SEC 18	226+40	41.6	RT	--	--	--	843.00	--	--	--	2210 - DIA 18"	--	099	--	--
2220	PRC FLAR END SEC 18	228+09	41.9	RT	842.00	--	--	--	2211 - DIA 18"	--	--	--	--	099	--	--
2221	PRC FLAR END SEC 18	228+14	41.9	RT	--	841.90	--	--	--	2211 - DIA 18"	--	--	--	099	--	--
2300	INLETS TA T24F&G	230+40	31.0	LT	840.00	--	--	--	2300 - DIA 12"	--	--	--	843.17	099	YES	--
2301	CB TA 4 DIA T24F&G	230+60	31.0	LT	839.90	839.90	--	--	2303 - DIA 12"	2300 - DIA 12"	--	--	843.15	099	YES	--
2302	INLETS TA T24F&G	230+60	19.0	RT	--	--	839.00	--	--	--	2302 - DIA 12"	--	843.21	099	YES	--
2303	PRC FLAR END SEC 12	230+60	38.6	RT	--	--	--	837.58	--	--	--	2302 - DIA 12"	--	099	--	--
2305	CB TA 6 DIA T24F&G	230+77	31.0	LT	839.50	839.80	838.30	838.30	2305 - DIA 18"	2303 - DIA 12"	2304 - DIA 36"	2301 - DIA 36"	843.16	099	YES	--
2306	PRC FLAR END SEC 36	230+77	37.8	LT	--	--	838.50	--	--	--	2301 - DIA 36"	--	--	099	--	--
2307	PRC FLAR END SEC 36	230+77	33.5	RT	--	--	--	837.50	--	--	--	2304 - DIA 36"	--	099	--	--
2309	CB TA 4 DIA T24F&G	231+80	29.9	LT	840.00	840.00	--	--	2306 - DIA 18"	2305 - DIA 18"	--	--	843.83	099	YES	--
2310	MAN TA 4 DIA T1F CL	232+90	24.6	LT	841.95	841.30	842.40	--	2310 - DIA 18"	2306 - DIA 18"	2307 - DIA 12"	--	846.10	099	--	--
2311	CB TA 4 DIA T24F&G	232+90	19.0	LT	--	--	842.45	842.45	--	--	2308 - DIA 12"	2307 - DIA 12"	846.11	099	YES	--
2312	CB TA 4 DIA T24F&G	232+90	19.0	RT	842.95	--	--	842.95	2309 - DIA 12"	--	--	2308 - DIA 12"	846.44	099	YES	--
2313	INLETS TA T24F&G	233+40	19.0	RT	--	843.45	--	--	--	2309 - DIA 12"	--	--	847.24	099	YES	--
2314	CB TA 4 DIA T1F OL	235+10	28.1	LT	845.00	844.50	845.10	--	2314 - DIA 18"	2310 - DIA 18"	2311 - DIA 12"	--	849.27	100	YES	--
2315	CB TA 4 DIA T24F&G	235+10	19.0	LT	--	--	845.30	845.30	--	--	2312 - DIA 12"	2311 - DIA 12"	850.43	100	YES	--
2316	CB TA 4 DIA T24F&G	235+10	19.0	RT	--	--	845.80	845.80	--	--	2313 - DIA 12"	2312 - DIA 12"	850.43	100	YES	--
2317	CB TC T8G	235+10	31.4	RT	--	--	--	846.00	--	--	--	2313 - DIA 12"	848.05	100	YES	--
2318	CB TA 4 DIA T1F OL	237+00	41.3	LT	--	847.50	847.50	--	--	2314 - DIA 18"	2315 - DIA 12"	--	851.50	100	YES	--
2319	CB TA 4 DIA T24F&G	237+00	31.0	LT	--	--	848.00	847.75	--	--	2316 - DIA 12"	2315 - DIA 12"	852.99	100	YES	--
2320	INLETS TA T24F&G	237+00	19.0	RT	--	--	--	848.50	--	--	--	2316 - DIA 12"	853.23	100	YES	--
2400	PRC FLAR END SEC 12	240+93	24.0	LT	--	--	849.55	--	--	--	2400 - DIA 12"	--	--	100	--	--
2401	CB TA 4 DIA T24F&G	240+93	19.0	LT	--	--	849.58	849.58	--	--	2401 - DIA 12"	2400 - DIA 12"	852.03	100	YES	--
2402	INLETS TA T24F&G	240+93	19.0	RT	--	--	--	849.76	--	--	--	2401 - DIA 12"	852.03	100	YES	--
2403	PRC FLAR END SEC 12	243+50	27.8	LT	--	--	842.75	--	--	--	2402 - DIA 12"	--	--	100	--	--
2404	CB TA 4 DIA T24F&G	243+50	19.0	LT	--	--	843.00	843.00	--	--	2403 - DIA 12"	2402 - DIA 12"	846.33	100	YES	--
2405	INLETS TA T24F&G	243+50	19.0	RT	--	--	--	843.30	--	--	--	2403 - DIA 12"	846.33	100	YES	--
2406	PRC FLAR END SEC 12	245+50	27.1	LT	--	--	839.40	--	--	--	2404 - DIA 12"	--	--	100	--	--
2407	INLETS TA T24F&G	245+50	19.0	LT	--	--	--	839.45	--	--	--	2404 - DIA 12"	842.97	100	YES	--
2408	INLETS TA T24F&G	245+50	19.0	RT	--	--	838.20	--	--	--	2405 - DIA 15"	--	842.97	100	YES	--
2409	PRC FLAR END SEC 12	245+50	31.5	RT	--	--	--	838.00	--	--	--	2405 - DIA 15"	--	100	--	--
2410	PRC FLAR END SEC 18	245+63	27.0	LT	--	--	838.90	--	--	--	2406 - DIA 18"	--	--	100	--	--
2411	PRC FLAR END SEC 18	245+85	33.0	RT	--	--	--	837.00	--	--	--	2406 - DIA 18"	--	100	--	--
2412	PRC FLAR END SEC 12	245+80	37.3	LT	839.20	--	--	--	2407 - DIA 12"	--	--	--	--	100	--	--
2413	PRC FLAR END SEC 12	246+20	32.1	LT	--	839.47	--	--	--	2407 - DIA 12"	--	--	--	100	--	--
2414	INLETS TA T24F&G	246+55	19.0	LT	839.20	--	--	--	2408 - DIA 12"	--	--	--	842.37	100	YES	--
2415	INLETS TA T24F&G	246+55	19.0	RT	839.20	--	--	--	2409 - DIA 12"	--	--	--	842.37	100	YES	--
2416	CB TA 4 DIA T24F&G	246+69	19.0	LT	839.00	839.00	837.50	--	2412 - DIA 12"	2408 - DIA 12"	2410 - DIA 12"	--	842.35	100	YES	YES
2417	CB TA 4 DIA T24F&G	246+69	19.0	RT	837.20	839.00	837.20	837.20	2413 - DIA 18"	2409 - DIA 12"	2411 - DIA 18"	2410 - DIA 12"	842.35	100	YES	YES
2418	PRC FLAR END SEC 15	246+69	31.7	RT	--	--	--	837.00	--	--	--	2411 - DIA 18"	--	100	--	--
2419	INLETS TA T24F&G	247+50	19.0	LT	--	839.50	--	--	--	2412 - DIA 12"	--	--	842.51	100	YES	--
2421	INLETS TA T24F&G	247+50	19.0	RT	--	--	839.20	--	--	--	2414 - DIA 12"	--	842.51	100	YES	--
2422	CB TA 4 DIA T1F CL	247+50	24.6	RT	838.50	837.75	--	839.00	2415 - DIA 18"	2413 - DIA 18"	--	2414 - DIA 12"	842.50	100	--	--
2423	CB TA 4 DIA T24F&G	249+70	36.3	LT	841.00	--	841.00	841.00	2420 - DIA 12"	--	2417 - DIA 18"	2416 - DIA 18"	844.93	100	YES	--
2424	CB TA 4 DIA T24F&G	249+70	19.0	RT	--	--	840.00	840.50	--	--	2418 - DIA 18"	2417 - DIA 18"	845.29	100	YES	--
2425	MAN TA 4 DIA T1F CL	249+70	24.6	RT	842.40	839.40	--	839.95	2419 - DIA 12"	2415 - DIA 18"	--	2418 - DIA 18"	845.28	100	--	--
2426	CB TA 4 DIA T1F CL	249+48	65.6	LT	--	841.55	841.50	841.50	--	EP - DIA 18"	2416 - DIA 18"	2422 - DIA 12"	844.50	100	--	--
2427	PRC FLAR END SEC 12	249+54	74.0	LT	--	--	841.70	--	--	--	2422 - DIA 12"	--	--	100	--	--
2428	PRC FLAR END SEC 18	245+82	126.8	RT	--	--	835.50	--	--	--	2421 - DIA 18"	--	--	100	--	--
2429	PRC FLAR END SEC 18	245+78	131.8	RT	--	--	--	835.40	--	--	--	2421 - DIA 18"	--	100	--	--
2500	INLETS TA T24F&G	251+40	31.0	LT	--	843.00	--	--	--	2420 - DIA 12"	--	--	847.64	101	YES	--
2501	INLETS TA T24F&G	251+40	19.0	RT	--	844.00	--	--	--	2419 - DIA 12"	--	--	847.88	101	YES	--
2502	PRC FLAR END SEC 15	254+60	32.6	LT	845.40	--	--	--	2500 - DIA 15"	--	--	--	--	101	--	--
2503	PRC FLAR END SEC 15	254+90	31.2	LT	--	845.25	--	--	--	2500 - DIA 15"	--	--	--	101	--	--

EP = CONNECT TO EXISTING PIPE
ES = CONNECT TO EXISTING STRUCTURE

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

DRAINAGE SCHEDULE
SHEET 2 OF 6

SCALE: N.T.S. DRAWN BY: LK
DATE: 06/10/11 CHECKED BY: TL

TENG
TENG & ASSOCIATES, INC
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	090
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

EP = CONNECT TO EXISTING PIPE
ES = CONNECT TO EXISTING STRUCTURE

STRUCT. NO.	DESCRIPTION	BASELINE STATION	BASELINE OFFSET (FT)	BASELINE DIR.	INVERTS NORTH	INVERTS SOUTH	INVERTS EAST	INVERTS WEST	PIPE CONNECTIONS (PIPE NO. - PIPE SIZE) NORTH	PIPE CONNECTIONS SOUTH	PIPE CONNECTIONS EAST	PIPE CONNECTIONS WEST	PROP RIM ELEV	SHEET NO.	INLET FILTER	UNDERDRAIN CONNECTION
2504	INLETS TA T24F&G	256+00	19.0	LT	--	--	839.75	--	--	--	2501 - DIA 12″	--	845.62	101	YES	--
2505	CB TA 4 DIA T24F&G	256+00	19.0	RT	--	--	839.25	839.25	--	--	2502 - DIA 12″	2501 - DIA 12″	845.62	101	YES	--
2506	CB TA 4 DIA T1F OL	256+00	30.5	RT	838.00	--	--	839.00	2503 - DIA 12″	--	--	2502 - DIA 12″	844.00	101	YES	--
2507	INLETS TA T24F&G	257+65	19.0	LT	--	--	835.00	--	--	--	2504 - DIA 12″	--	841.45	101	YES	--
2508	CB TA 4 DIA T24F&G	257+65	19.0	RT	--	--	833.50	834.50	--	--	2505 - DIA 12″	2504 - DIA 12″	841.45	101	YES	--
2509	CB TA 4 DIA T1F OL	257+65	32.0	RT	832.25	835.00	--	833.25	2506 - DIA 15″	2503 - DIA 12″	--	2505 - DIA 12″	839.30	101	YES	--
2510	PRC FLAR END SEC 15	258+65	32.2	RT	835.70	--	--	--	2507 - DIA 15″	--	--	--	--	101	--	--
2511	PRC FLAR END SEC 15	259+00	32.2	RT	--	834.70	--	--	--	2507 - DIA 15″	--	--	--	101	--	--
2512	INLETS TA T24F&G	259+25	19.0	LT	--	--	831.50	--	--	--	2508 - DIA 12″	--	836.74	101	YES	--
2513	CB TA 4 DIA T24F&G	259+25	19.0	RT	--	--	830.00	831.00	--	--	2509 - DIA 12″	2508 - DIA 12″	836.36	101	YES	--
2514	CB TA 4 DIA T1F OL	259+25	33.0	RT	825.00	--	--	829.25	2510 - DIA 18″	--	--	2509 - DIA 12″	833.70	101	YES	--
2515	INLETS TA T24F&G	254+50	19.0	LT	--	--	--	845.30	--	--	--	2511 - DIA 12″	847.88	101	YES	--
2516	PRC FLAR END SEC 12	254+50	24.8	LT	--	--	845.25	--	--	--	2511 - DIA 12″	--	--	101	--	--
2600	INLETS TA T24F&G	261+25	19.0	RT	--	--	825.00	--	--	--	2600 - DIA 12″	--	829.76	101	YES	--
2601	CB TA 4 DIA T1F OL	261+25	35.0	RT	821.00	822.00	--	824.00	2601 - DIA 18″	2510 - DIA 18″	--	2600 - DIA 12″	827.00	101	YES	--
2602	INLETS TA T24F&G	262+75	19.0	RT	--	--	822.20	--	--	--	2602 - DIA 12″	--	824.76	101	YES	--
2603	MAN TA 4 DIA T1F CL	262+75	24.6	RT	816.00	818.00	--	822.00	2603 - DIA 18″	2601 - DIA 18″	--	2602 - DIA 12″	824.75	101	--	--
2604	PRC FLAR END SEC 12	263+20	28.5	LT	--	--	820.10	--	--	--	2604 - DIA 12″	--	--	101	--	--
2605	INLETS TA T24F&G	263+20	19.0	LT	--	--	--	820.50	--	--	--	2604 - DIA 12″	824.19	101	YES	--
2606	PRC FLAR END SEC 15	263+35	36.0	LT	819.60	--	--	--	2605 - DIA 15″	--	--	--	--	101	--	--
2607	PRC FLAR END SEC 15	263+63	39.0	LT	--	818.40	--	--	--	2605 - DIA 15″	--	--	--	101	--	--
2608	CB TA 4 DIA T24F&G	265+00	19.0	RT	--	--	813.05	813.05	--	--	2606 - DIA 18″	2608 - DIA 18″	817.46	101	YES	--
2609	MAN TA 4 DIA T1F CL	265+00	24.6	RT	812.00	812.00	813.40	813.00	2609 - DIA 18″	2603 - DIA 18″	2607 - DIA 12″	2606 - DIA 18″	817.45	101	--	--
2610	PRC FLAR END SEC 12	265+00	28.7	RT	--	--	--	813.45	--	--	--	2607 - DIA 12″	--	101	--	--
2611	PRC FLAR END SEC 18	264+85	51.0	LT	--	--	814.00	--	--	--	2608 - DIA 18″	--	--	101	--	--
2612	PRC FLAR END SEC 18	265+08	276.9	LT	--	810.75	--	--	--	2613 - DIA 18″	--	--	--	105	--	--
2613	CB TA 4 DIA T24F&G	266+25	28.8	RT	808.00	810.00	--	--	2610 - DIA 18″	2609 - DIA 18″	--	--	813.95	102	YES	--
2614	CB TA 4 DIA T24F&G	268+50	19.0	RT	--	806.70	806.70	--	--	2610 - DIA 18″	2611 - DIA 18″	--	810.00	102	YES	--
2615	PRC FLAR END SEC 18	268+50	28.3	RT	--	--	--	806.60	--	--	--	2611 - DIA 18″	--	102	--	--
2616	INLETS TA T24F&G	269+60	19.0	RT	806.20	--	--	--	2612 - DIA 12″	--	--	--	808.90	102	YES	--
2617	PRC FLAR END SEC 18	264+84	271.8	LT	811.50	--	--	--	2613 - DIA 18″	--	--	--	--	105	--	--
2700	CB TA 4 DIA T24F&G	270+80	19.0	RT	805.50	805.50	--	--	2700 - DIA 12″	2612 - DIA 12″	--	--	808.45	102	YES	--
2701	PRC FLAR END SEC 18	270+92	27.1	LT	--	--	804.80	--	--	--	2701 - DIA 18″	--	--	102	--	--
2702	CB TA 4 DIA T24F&G	270+92	19.0	LT	--	--	804.71	804.71	--	--	2705 - DIA 18″	2701 - DIA 18″	809.39	102	YES	--
2703	CB TA 4 DIA T24F&G	270+92	19.0	RT	805.40	805.40	803.40	804.53	2703 - DIA 12″	2700 - DIA 12″	2702 - DIA 18″	2705 - DIA 18″	808.45	102	YES	YES
2704	PRC FLAR END SEC 18	270+92	31.2	RT	--	--	--	803.20	--	--	--	2702 - DIA 18″	--	102	--	--
2705	CB TA 4 DIA T1F OL	271+00	55.0	RT	798.90	798.90	--	--	2704 - DIA 24″	2706 - DIA 24″	--	--	802.90	102	YES	--
2706	INLETS TA T24F&G	271+10	19.0	RT	--	805.70	--	--	--	2703 - DIA 12″	--	--	808.46	102	YES	--
2707	DRYWELL	271+10	55.0	RT	--	798.85	--	--	--	2704 - DIA 24″	--	--	802.95	102	--	--
2709	DRYWELL	270+90	55.0	RT	798.85	--	--	--	2706 - DIA 24″	--	--	--	802.90	102	--	--
2711	CB TA 4 DIA T24F&G	271+95	19.0	RT	806.00	--	804.20	--	2708 - DIA 12″	--	2707 - DIA 12″	--	808.76	102	YES	--
2712	PRC FLAR END SEC 12	271+95	31.2	RT	--	--	--	804.00	--	--	--	2707 - DIA 12″	--	102	--	--
2713	INLETS TA T24F&G	272+50	19.0	RT	--	806.50	--	--	--	2708 - DIA 12″	--	--	809.16	102	YES	--
2714	PRC FLAR END SEC 12	272+67	38.0	LT	805.30	--	--	--	2709 - DIA 12″	--	--	--	--	102	--	--
2715	PRC FLAR END SEC 12	272+88	38.0	LT	--	805.40	--	--	--	2709 - DIA 12″	--	--	--	102	--	--
2716	INLETS TA T24F&G	274+00	19.0	RT	--	--	806.00	--	--	--	2710 - DIA 12″	--	811.08	102	YES	YES
2717	PRC FLAR END SEC 12	274+00	35.0	RT	--	--	--	805.00	--	--	--	2710 - DIA 12″	--	102	--	--
2718	INLETS TA T24F&G	276+40	19.0	RT	--	--	809.14	--	--	--	2711 - DIA 12″	--	816.50	102	YES	--
2719	PRC FLAR END SEC 12	276+40	43.5	RT	--	--	--	807.00	--	--	--	2711 - DIA 12″	--	102	--	--
2720	INLETS TA T24F&G	279+00	19.0	RT	--	--	821.85	--	--	--	2712 - DIA 12″	--	824.55	102	YES	--
2721	PRC FLAR END SEC 12	279+00	25.0	RT	--	--	--	821.80	--	--	--	2712 - DIA 12″	--	102	--	--
2722	PRC FLAR END SEC 12	279+35	34.7	LT	822.30	--	--	--	2713 - DIA 12″	--	--	--	--	102	--	--
2723	PRC FLAR END SEC 12	279+70	33.0	LT	--	823.00	--	--	--	2713 - DIA 12″	--	--	--	102	--	--
2724	PRC FLAR END SEC 12	279+90	23.7	LT	--	--	823.60	--	--	--	2714 - DIA 12″	--	--	102	--	--
2725	INLETS TA T24F&G	279+90	19.0	LT	--	--	--	823.65	--	--	--	2714 - DIA 12″	826.19	102	YES	--
2800	INLETS TA T24F&G	283+35	19.0	LT	--	--	821.00	--	--	--	2800 - DIA 12″	--	824.21	103	YES	--
2801	CB TA 4 DIA T24F&G	283+35	19.0	RT	--	--	818.96	820.60	--	--	2801 - DIA 12″	2800 - DIA 12″	824.21	103	YES	--
2802	CB TA 4 DIA T1F OL	283+35	27.4	RT	817.00	--	--	818.50	2802 - DIA 12″	--	--	2801 - DIA 12″	823.30	103	YES	--
2803	CB TA 4 DIA T1F OL	284+70	27.7	RT	814.00	815.00	--	--	2803 - DIA 12″	2802 - DIA 12″	--	--	820.50	103	YES	--
2804	CB TA 4 DIA T24F&G	286+00	19.0	LT	--	--	815.30	815.30	--	--	2804 - DIA 15″	2810 - DIA 15″	819.50	103	YES	--
2805	CB TA 4 DIA T24F&G	286+00	19.0	RT	--	--	814.18	815.00	--	--	2805 - DIA 15″	2804 - DIA 15″	819.50	103	YES	--
2806	CB TA 4 DIA T1F OL	286+00	29.6	RT	810.00	812.00	--	813.50	2806 - DIA 15″	2803 - DIA 12″	--	2805 - DIA 15″	818.00	103	YES	--
2807	INLETS TA T24F&G	288+35	19.0	LT	--	--	811.50	--	--	--	2807 - DIA 12″	--	814.97	103	YES	--
2808	CB TA 4 DIA T24F&G	288+35	19.0	RT	--	--	809.70	811.10	--	--	2808 - DIA 12″	2807 - DIA 12″	814.97	103	YES	--
2809	CB TA 4 DIA T1F OL	288+35	29.8	RT	806.00	808.00	--	809.00	2809 - DIA 15″	2806 - DIA 15″	--	2808 - DIA 12″	813.30	103	YES	--
2810	PRC FLAR END SEC 12	286+00	26.7	LT	--	--	816.00	--	--	--	2810 - DIA 15″	--	--	103	--	--
2900	INLETS TA T24F&G	290+50	19.0	LT	--	--	807.50	--	--	--	2900 - DIA 12″	--	810.65	103	YES	--
2901	CB TA 4 DIA T24F&G	290+50	19.0	RT	--	--	805.14	807.10	--	--	2901 - DIA 12″	2900 - DIA 12″	810.65	103	YES	--
2902	CB TA 4 DIA T1F OL	290+50	29.2	RT	801.00	804.00	--	804.50	2902 - DIA 18″	2809 - DIA 15″	--	2901 - DIA 12″	809.20	103	YES	--
2903	INLETS TA T24F&G	292+25	19.0	LT	--	--	803.90	--	--	--	2903 - DIA 12″	--	806.82	103	YES	--
2904	CB TA 4 DIA T24F&G	292+25	19.0	RT	--	--	801.48	803.50	--	--	2904 - DIA 12″	2903 - DIA 12″	806.82	103	YES	--
2905	CB TA 4 DIA T1F OL	292+25	30.6	RT	797.00	799.00	--	800.70	2905 - DIA 18″	2902 - DIA 18″	--	2904 - DIA 12″	805.00	103	YES	--
2906	CB TA 4 DIA T24F&G	296+65	19.0	RT	--	--	793.10	794.00	--	--	2918 - DIA 12″	2917 - DIA 12″	799.24	104	YES	--
2907	INLETS TA T24F&G	294+60	19.0	LT	--	--	798.87	--	--	--	2906 - DIA 12″	--	801.97	103	YES	YES
2908	CB TA 4 DIA T24F&G	294+60	19.0	RT	--	--	797.02	798.67	--	--	2907 - DIA 12″	2906 - DIA 12″	801.97	103	YES	YES
2909	CB TA 4 DIA T1F OL	294+60	33.5	RT	794.00	795.00	--	796.00	2908 - DIA 18″	2905 - DIA 18″	--	2907 - DIA 12″	799.70	103	YES	--
2910	INLETS TA T24F&G	296+65	19.0	LT	--	--	794.40	--	--	--	2917 - DIA 12″	--	799.24	104	YES	--
2911	INLETS TA T24F&G	297+75	19.0	LT	--	--	794.50	--	--	--	2919 - DIA 18″	--	798.23	104	YES	--

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

DRAINAGE SCHEDULE
SHEET 3 OF 6

SCALE: N.T.S. DRAWN BY: LK
DATE: 06/10/11 CHECKED BY: TL

TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE: 312/616-0000

..\SC02\4004.DGN, ..\SC02\4004.DGN, ..\B099\A00.DGN
\\FS-004\MVAULT\D-TRANS 0\20202\300-03\CIVIL\CADD\02 CONTRACT\VA TENG\SHEET\D002\4003.SHT
6-09-2011 16:37:30 STANDRJ

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	091
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

STRUCT. NO.	DESCRIPTION	BASELINE STATION	OFFSET (FT)	DIR.	INVERTS NORTH	SOUTH	EAST	WEST	PIPE CONNECTIONS (PIPE NO. - PIPE SIZE) NORTH	SOUTH	EAST	WEST	PROP RIM ELEV	SHEET NO.	INLET FILTER	UNDERDRAIN CONNECTION
2915	CB TA 4 DIA T1F OL	296+65	34.8	RT	792.50	793.00	--	793.00	2911 - DIA 18"	2908 - DIA 18"	--	2918 - DIA 12"	796.10	104	YES	--
2916	CB TA 4 DIA T24F&G	297+75	19.0	RT	--	--	793.00	794.30	--	--	2920 - DIA 12"	2919 - DIA 18"	798.23	104	YES	--
2920	CB TA 4 DIA T1F OL	297+75	34.9	RT	792.00	792.00	--	792.90	2914 - DIA 18"	2911 - DIA 18"	--	2920 - DIA 12"	796.00	104	YES	--
2921	PRC FLAR END SEC 18	299+45	36.2	RT	--	--	--	791.00	--	--	--	2913 - DIA 18"	--	104	--	--
2922	CB TC T8G	299+50	47.8	RT	786.00	786.00	--	--	2915 - DIA 24"	2916 - DIA 24"	--	--	790.00	104	YES	--
2923	DRYWELL	299+60	47.0	RT	--	785.95	--	--	--	2915 - DIA 24"	--	--	790.05	104	--	--
2924	MAN TA 4 DIA T1F CL	299+45	25.0	RT	--	791.20	791.20	--	--	2914 - DIA 18"	2913 - DIA 18"	--	797.27	104	--	--
2926	DRYWELL	299+40	48.0	RT	785.95	--	--	--	2916 - DIA 24"	--	--	--	790.05	104	--	--
3000	PRC FLAR END SEC 24	300+63	26.5	LT	--	--	794.00	--	--	--	3000 - DIA 24"	--	--	104	--	--
3001	PRC FLAR END SEC 24	300+63	28.0	RT	--	--	--	793.50	--	--	--	3000 - DIA 24"	--	104	--	--
3002	PRC FLAR END SEC 18	307+00	25.1	LT	--	--	794.70	--	--	--	3001 - DIA 18"	--	--	104	--	--
3003	PRC FLAR END SEC 18	307+00	28.2	RT	--	--	--	793.75	--	--	--	3001 - DIA 18"	--	104	--	--
4000	INLETS TA T24F&G	41+70	23.2	LT	--	--	908.10	--	--	--	4000 - DIA 12"	--	911.36	094	YES	YES
4001	INLETS TA T24F&G	41+70	22.9	RT	--	--	908.27	--	--	--	4001 - DIA 12"	--	911.37	094	YES	YES
4002	CB TA 4 DIA T24F&G	41+90	23.2	LT	--	908.00	908.00	908.00	--	4002 - DIA 12"	4003 - DIA 15"	4000 - DIA 12"	911.72	094	YES	--
4003	CB TA 4 DIA T24F&G	41+90	23.1	RT	908.17	--	--	908.17	4002 - DIA 12"	--	--	4001 - DIA 12"	911.72	094	YES	--
4004	MAN TA 4 DIA T1F CL	42+35	59.8	LT	906.00	--	906.00	--	4015 - DIA 18"	--	4014 - DIA 18"	--	917.00	094	--	--
4005	MH TA 6D W/2 T1FCL RP	43+08	37.0	LT	--	907.40	905.25	907.40	--	4005 - DIA 15"	4007 - DIA 30"	4004 - DIA 18"	915.50	094	--	--
4006	CB TA 4 DIA T24F&G	43+09	24.9	LT	907.50	909.00	--	907.50	4005 - DIA 15"	4006 - DIA 12"	--	4003 - DIA 15"	913.83	094	YES	--
4007	INLETS TA T24F&G	43+09	27.8	RT	910.00	--	--	--	4006 - DIA 12"	--	--	--	913.77	094	YES	--
4008	INLETS TA T24F&G	44+50	42.5	LT	--	909.70	--	--	--	4008 - DIA 12"	--	--	915.90	094	YES	--
4009	MAN TA 5 DIA T1F CL	44+50	34.5	LT	909.60	911.00	908.50	905.60	4008 - DIA 12"	4009 - DIA 12"	4010 - DIA 12"	4007 - DIA 30"	916.19	094	--	--
4010	INLETS TA T24F&G	44+49	30.5	RT	912.00	--	--	--	4009 - DIA 12"	--	--	--	916.17	094	YES	--
4011	CB TA 4 DIA T24F&G	46+00	42.5	LT	--	910.35	--	--	--	4011 - DIA 12"	--	--	918.60	094	YES	--
4012	MAN TA 4 DIA T1F CL	46+00	32.5	LT	910.25	914.50	--	909.25	4011 - DIA 12"	4012 - DIA 12"	--	4010 - DIA 12"	918.95	094	--	--
4013	INLETS TA T24F&G	46+00	32.0	RT	915.00	--	--	--	4012 - DIA 12"	--	--	--	918.87	094	YES	--
4018	DRYWELL	42+83	51.4	LT	--	--	906.20	906.20	--	--	4004 - DIA 18"	4014 - DIA 18"	916.00	094	--	--
5000	INLETS TA T24F&G	52+25	41.5	LT	--	--	908.50	--	--	--	5000 - DIA 12"	--	914.25	094	YES	--
5001	CB TA 4 DIA T24F&G	51+87	31.2	RT	--	902.00	905.10	904.90	--	5003 - DIA 24"	5001 - DIA 24"	4013 - DIA 24"	915.73	094	YES	--
5002	CB TA 4 DIA T24F&G	53+90	32.7	LT	902.70	896.20	896.00	905.00	5033 - DIA 12"	5002 - DIA 12"	5018 - DIA 12"	5029 - DIA 12"	909.25	094	YES	--
5003	CB TA 5 DIA T24F&G	53+90	30.5	RT	896.00	--	897.00	904.00	5002 - DIA 12"	--	5004 - DIA 36"	5001 - DIA 24"	909.30	094	YES	--
5004	DRYWELL	52+15	61.0	RT	--	909.70	--	902.01	--	5007 - DIA 12"	--	5003 - DIA 24"	915.00	094	--	--
5005	DRYWELL	54+61	38.7	LT	--	--	899.90	896.01	--	--	5031 - DIA 12"	5018 - DIA 12"	906.00	094	--	--
5006	CB TC T24F&G	52+28	78.9	RT	909.90	--	--	--	5007 - DIA 12"	--	--	--	913.90	094	YES	--
5007	CB TA 5 DIA T24F&G	55+79	31.3	RT	--	899.50	896.10	896.10	--	5008 - DIA 12"	5006 - DIA 36"	5004 - DIA 36"	903.86	095	YES	--
5008	DRYWELL	57+17	36.5	RT	893.05	--	--	--	5005 - DIA 24"	--	--	--	903.41	095	--	--
5009	CB TA 4 DIA T24F&G	56+16	70.7	RT	--	--	899.75	899.75	--	--	5028 - DIA 12"	5008 - DIA 12"	902.70	095	YES	--
5010	CB TA 4 DIA T24F&G	55+50	29.9	LT	900.35	--	--	900.35	5012 - DIA 12"	--	--	5010 - DIA 12"	904.51	095	YES	--
5011	INLETS TA T8G	55+50	42.0	LT	--	900.40	--	--	--	5012 - DIA 12"	--	--	902.00	095	YES	--
5012	MAN TA 5 DIA T1F CL	56+37	29.5	RT	--	896.50	895.50	895.80	--	EP - DIA 18"	5011 - DIA 36"	5006 - DIA 36"	903.11	095	--	--
5013	MH TA 6D W/2 T1FCL RP	56+53	35.0	LT	891.50	--	891.50	--	5057 - DIA 24"	--	5013 - DIA 42"	--	903.35	095	--	--
5014	CB TA 5 DIA T24F&G	56+97	26.8	RT	--	--	894.90	895.00	--	--	5014 - DIA 36"	5011 - DIA 36"	902.67	095	YES	--
5015	INLETS TA T24F&G	57+03	26.1	LT	--	--	899.15	--	--	--	5015 - DIA 12"	--	902.67	095	YES	--
5016	CB TA 6 DIA T24F&G	57+17	25.7	LT	--	W891.65	891.65	899.00	--	WEST 5013 - DIA 30"	5016 - DIA 30"	5015 - DIA 12"	902.67	095	YES	YES
5017	CB TA 6 DIA T24F&G	57+17	26.3	RT	--	893.00	894.75	894.75	--	5005 - DIA 24"	5017 - DIA 36"	5014 - DIA 36"	902.66	095	YES	YES
5018	CB TC T24F&G	59+70	48.5	RT	--	--	905.00	--	--	--	5009 - DIA 12"	--	907.60	095	YES	--
5019	MAN TA 6 DIA T1F OL	57+38	29.1	LT	--	891.90	897.20	891.80	--	5038 - DIA 42"	5019 - DIA 12"	5016 - DIA 30"	903.19	095	--	--
5020	MAN TA 6 DIA T1F CL	57+38	13.5	RT	891.95	--	896.00	894.50	5038 - DIA 42"	--	5020 - DIA 36"	5017 - DIA 36"	903.08	095	--	--
5021	CB TA 5 DIA T24F&G	58+33	23.4	RT	--	--	896.40	896.40	--	--	5021 - DIA 36"	5020 - DIA 36"	903.67	095	YES	--
5022	CB TA 4 DIA T24F&G	57+95	23.8	LT	899.00	--	--	897.50	5035 - DIA 12"	--	--	5019 - DIA 12"	903.15	095	YES	--
5023	DRYWELL	58+90	29.0	RT	--	--	896.00	--	--	--	5022 - DIA 12"	--	906.00	095	--	--
5024	MAN TA 4 DIA T24F&G	59+00	21.2	LT	901.70	901.70	--	--	5036 - DIA 12"	5023 - DIA 12"	--	--	905.13	095	--	--
5025	CB TA 5 DIA T24F&G	59+00	21.7	RT	901.50	896.00	897.70	897.00	5023 - DIA 12"	5022 - DIA 12"	5024 - DIA 24"	5021 - DIA 36"	905.12	095	YES	--
5026	DRYWELL	59+83	40.7	RT	903.30	--	--	904.90	5025 - DIA 12"	--	--	5009 - DIA 12"	908.00	095	--	--
5027	MAN TA 4 DIA T1F CL	59+43	26.0	RT	--	903.15	903.00	898.00	--	EP - DIA 12"	5026 - DIA 15"	5024 - DIA 24"	906.33	095	--	--
5028	CB TA 4 DIA T24F&G	59+88	24.3	RT	904.00	903.25	903.25	904.00	5027 - DIA 12"	5025 - DIA 12"	EP - DIA 12"	5026 - DIA 15"	907.83	095	YES	--
5029	MAN TA 4 DIA T24F&G	60+04	19.0	LT	906.70	904.30	904.30	--	5037 - DIA 12"	5027 - DIA 12"	5030 - DIA 12"	--	908.59	095	--	--
5030	INLETS TA T24F&G	56+43	72.1	RT	--	--	--	900.00	--	--	--	5028 - DIA 12"	902.50	095	YES	--
5032	INLETS TA T24F&G	60+12	19.0	LT	--	--	--	904.40	--	--	--	5030 - DIA 12"	908.59	095	YES	--
5033	CB TA 4 DIA T24F&G	53+14	37.4	LT	907.90	--	905.50	908.00	5032 - DIA 12"	--	5029 - DIA 12"	5000 - DIA 12"	911.54	094	YES	--
5034	CB TA 4 DIA T24F&G	54+70	30.5	LT	900.95	--	900.00	900.00	5034 - DIA 12"	--	5010 - DIA 12"	5031 - DIA 12"	906.77	094	YES	--
5035	INLETS TA T8G	54+00	45.0	LT	--	902.75	--	--	--	5033 - DIA 12"	--	--	906.50	094	YES	--
5036	INLETS TA T8G	53+15	47.0	LT	--	908.00	--	--	--	5032 - DIA 12"	--	--	911.50	094	YES	--
5037	INLETS TA T8G	54+72	42.0	LT	--	901.00	--	--	--	5034 - DIA 12"	--	--	904.50	094	YES	--
5038	INLETS TA T8G	57+96	35.0	LT	--	899.10	--	--	--	5035 - DIA 12"	--	--	901.75	095	YES	--
5039	INLETS TA T8G	59+00	35.0	LT	--	901.75	--	--	--	5036 - DIA 12"	--	--	903.50	095	YES	--
5040	INLETS TA T8G	60+04	27.0	LT	--	906.75	--	--	--	5037 - DIA 12"	--	--	908.25	095	YES	--
5051	OUTFALL STRUCTURE	107+34	88.0	LT	3X872.5	872.50	--	--	3 X 8" HOLES	5051 - DIA 24"	--	--	--	106	--	--
5052	CB TA 4 DIA T1F CL	106+80	96.6	LT	875.05	--	876.00	--	5051 - DIA 24"	--	5052 - DIA 24"	--	881.00	106	--	--
5053	MAN TA 4 DIA T1F CL	106+51	35.0	LT	--	878.50	--	876.10	--	5053 - DIA 24"	--	5052 - DIA 24"	882.00	106	--	--
5054	MAN TA 4 DIA T1F CL	106+20	35.0	LT	878.53	880.01	--	--	5053 - DIA 24"	5054 - DIA 24"	--	--	885.41	106	--	--
5055	MAN TA 4 DIA T1F CL	105+86	13.0	LT	880.94	885.54	--	--	5054 - DIA 24"	5055 - DIA 24"	--	--	890.94	106	--	--
5056	MAN TA 4 DIA T1F CL	105+54	13.0	LT	886.20	889.67	--	--	5055 - DIA 24"	5056 - DIA 24"	--	--	896.19	106	--	--
5057	MAN TA 4 DIA T1F CL	105+23	12.0	RT	889.78	891.20	--	--	5056 - DIA 24"	5057 - DIA 24"	--		899.78	106	--	--

EP = CONNECT TO EXISTING PIPE
ES = CONNECT TO EXISTING STRUCTURE

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

DRAINAGE SCHEDULE SHEET 4 OF 6

SCALE: N.T.S. DRAWN BY: LK
DATE: 06/10/11 CHECKED BY: TL

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE: 312/616-0000

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	092
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

PIPE/ CULVERT NO.	DESCRIPTION	DIA. (IN)	LENGTH (FT)	SLOPE (%)	TRENCH BACKFILL (CU YDS.)	SHEET NO.	FROM ST. 1	TO ST. 2
400	STORM SEW CL A 2 15	DIA 15"	14	1.43	4.0	096	400	401
401	STORM SEW CL A 2 15	DIA 15"	173	0.92	47.9	096	401	404
402	STORM SEW CL A 1 12	DIA 12"	8	1.23	1.0	096	402	405
403	STORM SEW CL A 1 12	DIA 12"	8	1.23	1.0	096	403	406
404	STORM SEW CL A 2 12	DIA 12"	4	2.43	0.8	096	405	404
405	STORM SEW CL A 2 12	DIA 12"	58	0.52	8.6	096	406	405
407	STORM SEW CL A 2 18	DIA 18"	56	0.71	18.2	096	404	407
408	STORM SEW CL A 2 18	DIA 18"	161	0.50	62.3	096	407	410
409	STORM SEW CL A 1 12	DIA 12"	15	1.32	1.9	096	408	411
410	STORM SEW CL A 2 12	DIA 12"	15	0.66	2.9	096	409	412
411	STORM SEW CL A 2 18	DIA 18"	7	1.40	3.2	096	410	411
412	STORM SEW CL A 2 18	DIA 18"	58	0.86	25.9	096	411	412
413	STORM SEW CL A 2 12	DIA 12"	61	0.49	18.6	096	413	410
414	STORM SEW CL A 2 24	DIA 24"	87	0.57	70.2	096	412	414
415	STORM SEW CL A 3 24	DIA 24"	21	0.34	47.7	096	414	421
416	STORM SEW CL A 2 15	DIA 15"	85	1.18	34.0	096	416	400
417	STORM SEW CL A 2 15	DIA 15"	19	0.26	24.1	096	418	417
419	STORM SEW CL A 3 15	DIA 15"	59	0.17	111.5	096	417	416
420	STORM SEW CL A 2 12	DIA 12"	12	0.42	14.5	096	419	418
421	STORM SEW CL A 2 12	DIA 12"	13	0.39	15.6	096	420	419
422	STORM SEW CL A 3 24	DIA 24"	37	0.35	84.0	096	421	415
500	STORM SEW CL A 2 12	DIA 12"	134	1.00	50.0	096	500	502
501	STORM SEW CL A 2 12	DIA 12"	150	0.67	0.0	096	524	504
502	STORM SEW CL A 2 12	DIA 12"	151	0.99	0.0	096	502	503
503	STORM SEW CL A 2 18	DIA 18"	63	0.80	0.0	096	503	505
504	STORM SEW CL A 2 18	DIA 18"	1	16.00	0.7	096	505	504
505	STORM SEW CL A 2 12	DIA 12"	68	0.59	14.0	096	506	503
506	STORM SEW CL A 2 42	DIA 42"	84	0.36	140.6	096	504	510
507	STORM SEW CL A 2 42	DIA 42"	84	0.12	135.9	097	508	510
508	STORM SEW CL A 2 30	DIA 30"	10	1.49	12.7	096	510	514
509	STORM SEW CL A 2 30	DIA 30"	57	0.80	0.0	096	526	523
510	STORM SEW CL A 2 24	DIA 24"	76	0.33	0.0	097	511	507
511	STORM SEW CL A 2 15	DIA 15"	19	10.43	4.8	097	512	511
512	STORM SEW CL A 2 12	DIA 12"	39	0.51	9.5	097	509	507
513	STORM SEW CL A 2 12	DIA 12"	10	1.98	0.0	097	513	507
514	STORM SEW CL A 2 42	DIA 42"	175	0.11	324.3	097	516	508
515	STORM SEW CL A 2 18	DIA 18"	53	1.89	8.9	097	515	517
516	STORM SEW CL A 2 12	DIA 12"	1	14.39	0.0	097	517	516
517	STORM SEW CL A 3 42	DIA 42"	179	0.11	463.9	097	518	516
518	STORM SEW CL A 2 12	DIA 12"	1	15.77	0.3	097	520	518
519	STORM SEW CL A 2 12	DIA 12"	51	0.99	17.9	097	519	520
520	STORM SEW CL A 2 24	DIA 24"	80	3.12	87.5	097	522	518
521	STORM SEW CL A 2 12	DIA 12"	47	1.06	10.1	097	521	522
522	STORM SEW CL A 2 24	DIA 24"	1	8.00	0.7	097	507	508
523	STORM SEW CL A 2 12	DIA 12"	103	0.97	44.4	096	501	524
524	STORM SEW CL A 2 30	DIA 30"	6	1.67	5.6	096	514	526
525	STORM SEW CL A 2 12	DIA 12"	3	4.00	0.6	096	525	510
600	STORM SEW CL A 2 24	DIA 24"	181	1.93	176.3	097	602	522
601	STORM SEW CL A 2 12	DIA 12"	59	1.69	0.0	097	601	602
602	STORM SEW CL A 2 18	DIA 18"	176	1.29	61.9	097	603	602
603	STORM SEW CL A 2 12	DIA 12"	34	0.73	5.0	097	604	605
604	SS CL A 2 EQRS 27	S34", R22"	192	0.13	79.6	097	605	702
605	STORM SEW CL A 1 12	DIA 12"	5	1.05	0.0	097	606	604
606	STORM SEW CL A 2 15	DIA 15"	17	1.18	6.5	097	607	ES
700	STORM SEW CL A 1 12	DIA 12"	35	0.85	2.4	098	700	701
701	STORM SEW CL A 1 12	DIA 12"	1	2.84	0.0	098	701	702
702	P CUL CL D 1 15	DIA 15"	20	0.90	0.7	098	703	704
703	SS CL A 2 EQRS 27	S34", R22"	182	0.15	59.4	098	702	709
704	STORM SEW CL A 1 12	DIA 12"	48	1.28	0.0	098	705	706
705	STORM SEW CL A 1 12	DIA 12"	5	0.55	0.2	098	706	707
706	STORM SEW CL A 1 12	DIA 12"	34	0.73	0.0	098	707	708
707	STORM SEW CL A 2 15	DIA 15"	1	2.67	0.2	098	708	709
708	SS CL A 2 EQRS 36	S45", R29"	237	0.10	48.3	098	709	717
709	STORM SEW CL A 1 12	DIA 12"	35	0.57	0.0	098	710	711
710	STORM SEW CL A 1 12	DIA 12"	7	0.41	0.5	098	711	714
711	STORM SEW CL A 1 12	DIA 12"	6	1.17	0.1	098	712	713
712	STORM SEW CL A 1 12	DIA 12"	34	0.59	0.0	098	713	714
713	STORM SEW CL A 1 12	DIA 12"	58	0.34	5.4	098	714	716
714	STORM SEW CL A 1 12	DIA 12"	7	10.18	0.0	098	EP	715
715	STORM SEW CL A 1 12	DIA 12"	34	0.59	0.0	098	715	716
716	STORM SEW CL A 1 12	DIA 12"	1	2.67	0.2	098	716	717
717	SS CL A 2 EQRS 36	S45", R29"	154	0.50	29.9	098	717	721
718	STORM SEW CL A 1 15	DIA 15"	58	1.71	0.0	098	718	719
719	STORM SEW CL A 2 24	DIA 24"	38	0.53	8.4	098	719	721
721	STORM SEW CL A 1 12	DIA 12"	47	1.06	0.0	098	732	733
722	STORM SEW CL A 2 30	DIA 30"	4	1.25	1.1	098	721	750
723	STORM SEW CL A 1 15	DIA 15"	21	4.81	1.9	098	724	719

PIPE/ CULVERT NO.	DESCRIPTION	DIA. (IN)	LENGTH (FT)	SLOPE (%)	TRENCH BACKFILL (CU YDS.)	SHEET NO.	FROM ST. 1	TO ST. 2
724	STORM SEW CL A 1 24	DIA 24"	5	0.50	0.0	098	750	734
725	SS CL A 2 EQRS 36	S45", R29"	153	1.13	35.0	098	729	721
726	P CUL CL D 1 12	DIA 12"	35	1.58	1.8	098	730	726
727	STORM SEW CL A 2 12	DIA 12"	42	0.72	0.0	098	727	728
728	STORM SEW CL A 1 12	DIA 12"	1	9.62	0.1	098	728	729
729	SS CL A 2 EQRS 36	S45", R29"	135	0.50	51.5	098	731	729
730	STORM SEW CL A 1 12	DIA 12"	1	4.45	0.1	098	733	731
731	SS CL A 2 EQRS 36	S45", R29"	196	0.50	72.9	098	801	731
751	STORM SEW CL A 2 24	DIA 24"	4	0.25	1.2	098	725	750
752	STORM SEW CL A 1 12	DIA 12"	5	1.07	0.0	098	754	721
800	STORM SEW CL A 1 12	DIA 12"	28	1.06	2.4	098	800	801
2205	P CUL CL D 1 12	DIA 12"	16	6.30	0.8	099	2209	2210
2206	STORM SEW CL A 2 15	DIA 15"	130	0.52	39.9	099	2218	2214
2207	STORM SEW CL A 2 12	DIA 12"	10	0.99	2.8	099	2213	2214
2208	STORM SEW CL A 1 12	DIA 12"	22	0.92	1.0	099	2216	2218
2209	STORM SEW CL A 1 15	DIA 15"	2	15.92	0.2	099	2217	2218
2210	STORM SEW CL A 2 18	DIA 18"	59	0.31	18.8	099	2214	2219
2211	P CUL CL D 1 18	DIA 18"	5	2.04	0.4	099	2220	2221
2300	STORM SEW CL A 1 12	DIA 12"	17	0.60	1.3	099	2300	2301
2301	STORM SEW CL A 1 36	DIA 36"	5	4.10	0.6	099	2306	2305
2302	STORM SEW CL A 2 12	DIA 12"	19	7.63	2.2	099	2302	2303
2303	STORM SEW CL A 1 12	DIA 12"	13	0.77	1.1	099	2301	2305
2304	STORM SEW CL A 1 36	DIA 36"	63	1.28	7.9	099	2305	2307
2305	STORM SEW CL A 1 18	DIA 18"	97	0.51	10.1	099	2309	2305
2306	STORM SEW CL A 2 18	DIA 18"	106	1.23	18.5	099	2310	2309
2307	STORM SEW CL A 1 12	DIA 12"	2	2.93	0.2	099	2311	2310
2308	STORM SEW CL A 1 12	DIA 12"	34	1.46	3.9	099	2312	2311
2309	STORM SEW CL A 1 12	DIA 12"	47	1.06	5.6	099	2313	2312
2310	STORM SEW CL A 2 18	DIA 18"	216	1.18	42.0	100	2314	2310
2311	STORM SEW CL A 2 12	DIA 12"	5	3.74	1.2	100	2315	2314
2312	STORM SEW CL A 2 12	DIA 12"	34	1.46	8.6	100	2316	2315
2313	STORM SEW CL A 2 12	DIA 12"	9	2.31	0.8	100	2317	2316
2314	STORM SEW CL A 1 18	DIA 18"	187	1.34	28.7	100	2318	2314
2315	STORM SEW CL A 2 12	DIA 12"	7	3.85	1.4	100	2319	2318
2316	STORM SEW CL A 2 12	DIA 12"	47	1.06	11.7	100	2320	2319
2400	STORM SEW CL A 1 12	DIA 12"	3	0.96	0.1	100	2401	2400
2401	STORM SEW CL A 1 12	DIA 12"	35	0.51	0.0	100	2402	2401
2402	STORM SEW CL A 1 12	DIA 12"	7	3.61	0.5	100	2404	2403
2403	STORM SEW CL A 1 12	DIA 12"	35	0.85	2.5	100	2405	2404
2404	STORM SEW CL A 1 12	DIA 12"	7	0.70	0.6	100	2407	2406
2405	STORM SEW CL A 2 15	DIA 15"	12	1.74	1.6	100	2408	2409
2406	P CUL CL A 1 18	DIA 18"	64	2.97	4.7	100	2410	2411
2407	P CUL CL D 1 12	DIA 12"	40	0.67	2.1	100	2413	2412
2408	STORM SEW CL A 1 12	DIA 12"	11	1.80	0.9	100	2414	2416
2409	STORM SEW CL A 1 12	DIA 12"	11	1.80	0.9	100	2415	2417
2410	STORM SEW CL A 2 12	DIA 12"	34	0.88	9.0	100	2416	2417
2411	STORM SEW CL A 2 18	DIA 18"	11	1.85	1.9	100	2417	2418
2412	STORM SEW CL A 1 12	DIA 12"	78	0.64	5.6	100	2419	2416
2413	STORM SEW CL A 2 18	DIA 18"	77	0.71	19.9	100	2422	2417
2414	STORM SEW CL A 1 12	DIA 12"	3	7.39	0.3	100	2421	2422
2415	STORM SEW CL A 2 18	DIA 18"	216	0.42	55.2	100	2425	2422
2416	STORM SEW CL A 1 18	DIA 18"	33	1.50	2.3	100	2426	2423
2417	STORM SEW CL A 2 18	DIA 18"	52	0.97	9.4	100	2423	2424
2418	STORM SEW CL A 2 18	DIA 18"	2	2.93	0.5	100	2424	2425
2419	STORM SEW CL A 1 12	DIA 12"	167	0.96	15.5	101	2501	2425
2420	STORM SEW CL A 2 12	DIA 12"	167	1.20	31.3	101	2500	2423
2421	P CUL CL D 1 18	DIA 18"	7	1.51	0.0	100	2428	2429
2422	STORM SEW CL A 1 12	DIA 12"	9	2.29	0.5	100	2427	2426
2500	P CUL CL D 1 15	DIA 15"	30	0.50	1.0	101	2502	2503
2501	STORM SEW CL A 2 12	DIA 12"	35	1.42	13.4	101	2504	2505
2502	STORM SEW CL A 2 12	DIA 12"	8	3.23	2.6	101	2505	2506
2503	STORM SEW CL A 2 12	DIA 12"	161	1.86	44.9	101	2506	2509
2504	STORM SEW CL A 2 12	DIA 12"	35	1.42	15.5	101	2507	2508
2505	STORM SEW CL A 2 12	DIA 12"	9	2.70	6.8	101	2508	2509
2506	STORM SEW CL A 2 15	DIA 15"	156	1.92	55.0	101	2509	2514
2507	P CUL CL D 1 15	DIA 15"	35	2.86	1.2	101	2510	2511
2508	STORM SEW CL A 2 12	DIA 12"	35	1.42	10.3	101	2512	2513
2509	STORM SEW CL A 2 12	DIA 12"	10	7.32	3.1	101	2513	2514
2510	STORM SEW CL A 2 18	DIA 18"	194	1.54	143.6	101	2514	2601
2511	STORM SEW CL A 1 12	DIA 12"	5	1.04	0.1	101	2515	2516
2600	STORM SEW CL A 2 12	DIA 12"	13	7.62	1.9	101	2600	2601
2601	STORM SEW CL A 2 18	DIA 18"	145	2.07	63.3	101	2601	2603
2602	STORM SEW CL A 1 12	DIA 12"	3	7.75	0.0	101	2602	2603
2603	STORM SEW CL A 2 18	DIA 18"	219	1.83	171.7	101	2603	2609
2604	STORM SEW CL A 1 12	DIA 12"	9	4.71	0.8	101	2605	2604
2605	P CUL CL D 1 15	DIA 15"	29	4.21	1.8	101	2606	2607
2606	STORM SEW CL A 1 18	DIA 18"	2	2.93	0.3	101	2608	2609

EP = CONNECT TO EXISTING PIPE
ES = CONNECT TO EXISTING STRUCTURE

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

DRAINAGE SCHEDULE SHEET 5 OF 6

SCALE: N.T.S. DRAWN BY: LK
DATE: 06/10/11 CHECKED BY: TL

TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601

PIPE/ CULVERT NO.	DESCRIPTION	DIA. (IN)	LENGTH (FT)	SLOPE (%)	TRENCH BACKFILL (CU YDS.)	SHEET NO.	FROM ST. 1	TO ST. 2
2607	STORM SEW CL A 2 12	DIA 12"	2	2.36	0.2	101	2610	2609
2608	STORM SEW CL A 1 18	DIA 18"	70	1.36	9.1	101	2611	2608
2609	STORM SEW CL A 2 18	DIA 18"	120	1.67	27.0	101	2609	2613
2610	STORM SEW CL A 2 18	DIA 18"	220	0.59	47.2	102	2613	2614
2611	STORM SEW CL A 1 18	DIA 18"	7	1.35	0.0	102	2614	2615
2612	STORM SEW CL A 1 12	DIA 12"	116	0.60	4.0	102	2616	2700
2613	STORM SEW CL A 1 18	DIA 18"	27	2.82	0.0	105	2617	2612
2700	STORM SEW CL A 1 12	DIA 12"	8	1.22	0.4	102	2700	2703
2701	STORM SEW CL A 2 18	DIA 18"	6	1.45	0.9	102	2701	2702
2702	STORM SEW CL A 2 18	DIA 18"	10	1.94	1.8	102	2703	2704
2703	STORM SEW CL A 1 12	DIA 12"	15	2.00	0.6	102	2706	2703
2704	STORM SEW CL A 1 24	DIA 24"	4	1.13	0.5	102	2705	2707
2705	STORM SEW CL A 2 18	DIA 18"	34	0.53	6.0	102	2702	2703
2706	STORM SEW CL A 1 24	DIA 24"	4	1.13	0.4	102	2705	2709
2707	STORM SEW CL A 2 12	DIA 12"	10	1.94	0.0	102	2711	2712
2708	STORM SEW CL A 1 12	DIA 12"	52	0.97	1.1	102	2713	2711
2709	P CUL CL D 1 12	DIA 12"	21	0.47	0.0	102	2715	2714
2710	STORM SEW CL A 2 12	DIA 12"	15	6.67	2.7	102	2716	2717
2711	STORM SEW CL A 2 12	DIA 12"	24	9.12	6.6	102	2718	2719
2712	STORM SEW CL A 1 12	DIA 12"	5	1.00	0.2	102	2720	2721
2713	P CUL CL D 1 12	DIA 12"	35	2.00	1.9	102	2723	2722
2714	STORM SEW CL A 1 12	DIA 12"	4	1.35	0.1	102	2725	2724
2800	STORM SEW CL A 1 12	DIA 12"	35	1.14	3.4	103	2800	2801
2801	STORM SEW CL A 2 12	DIA 12"	5	10.00	1.2	103	2801	2802
2802	STORM SEW CL A 2 12	DIA 12"	131	1.52	46.9	103	2802	2803
2803	STORM SEW CL A 2 12	DIA 12"	126	1.58	49.7	103	2803	2806
2804	STORM SEW CL A 2 15	DIA 15"	34	0.88	6.5	103	2804	2805
2805	STORM SEW CL A 2 15	DIA 15"	7	10.00	1.7	103	2805	2806
2806	STORM SEW CL A 2 15	DIA 15"	231	0.87	105.5	103	2806	2809
2807	STORM SEW CL A 1 12	DIA 12"	35	1.14	4.3	103	2807	2808
2808	STORM SEW CL A 2 12	DIA 12"	7	10.00	1.7	103	2808	2809
2809	STORM SEW CL A 2 15	DIA 15"	211	0.95	86.6	103	2809	2902
2810	STORM SEW CL A 1 15	DIA 15"	6	12.05	0.7	103	2810	2804
2900	STORM SEW CL A 1 12	DIA 12"	35	1.14	3.1	103	2900	2901
2901	STORM SEW CL A 2 12	DIA 12"	6	10.00	1.8	103	2901	2902
2902	STORM SEW CL A 2 18	DIA 18"	171	1.17	134.3	103	2902	2905
2903	STORM SEW CL A 1 12	DIA 12"	35	1.14	2.3	103	2903	2904
2904	STORM SEW CL A 2 12	DIA 12"	8	10.00	1.9	103	2904	2905
2905	STORM SEW CL A 2 18	DIA 18"	231	0.87	100.3	103	2905	2909
2906	STORM SEW CL A 1 12	DIA 12"	35	0.57	2.6	103	2907	2908
2907	STORM SEW CL A 2 12	DIA 12"	11	9.54	2.1	103	2908	2909
2908	STORM SEW CL A 2 18	DIA 18"	201	0.50	37.6	103	2909	2915
2911	STORM SEW CL A 1 18	DIA 18"	106	0.47	11.8	104	2915	2920
2913	STORM SEW CL A 2 18	DIA 18"	9	2.17	2.2	104	2924	2921
2914	STORM SEW CL A 2 18	DIA 18"	166	0.48	44.4	104	2920	2924
2915	STORM SEW CL A 1 24	DIA 24"	5	1.08	0.5	104	2922	2923
2916	STORM SEW CL A 1 24	DIA 24"	5	1.08	0.4	104	2922	2926
2917	STORM SEW CL A 2 12	DIA 12"	35	1.14	9.4	104	2910	2906
2918	STORM SEW CL A 2 12	DIA 12"	12	0.83	2.7	104	2906	2915
2919	STORM SEW CL A 1 18	DIA 18"	35	0.57	4.0	104	2911	2916
2920	STORM SEW CL A 2 12	DIA 12"	12	0.82	2.1	104	2916	2920
3000	P CUL CL A 1 24	DIA 24"	54	0.92	5.1	104	3000	3001
3001	P CUL CL A 1 18	DIA 18"	53	1.78	3.9	104	3002	3003
4000	STORM SEW CL A 1 12	DIA 12"	17	0.58	1.8	094	4000	4002
4001	STORM SEW CL A 1 12	DIA 12"	17	0.58	1.5	094	4001	4003
4002	STORM SEW CL A 1 12	DIA 12"	43	0.40	5.1	094	4003	4002
4003	STORM SEW CL A 2 15	DIA 15"	115	0.43	30.9	094	4002	4006
4004	STORM SEW CL A 2 18	DIA 18"	22	5.39	22.9	094	4005	4018
4005	STORM SEW CL A 2 15	DIA 15"	7	1.38	3.4	094	4006	4005
4006	STORM SEW CL A 2 12	DIA 12"	50	2.01	9.4	094	4007	4006
4007	STORM SEW CL A 2 30	DIA 30"	137	0.26	194.0	094	4009	4005
4008	STORM SEW CL A 2 12	DIA 12"	4	2.22	1.8	094	4008	4009
4009	STORM SEW CL A 2 12	DIA 12"	62	1.63	14.1	094	4010	4009
4010	STORM SEW CL A 2 12	DIA 12"	145	0.52	146.5	094	4012	4009
4011	STORM SEW CL A 2 12	DIA 12"	6	1.63	6.0	094	4011	4012
4012	STORM SEW CL A 2 12	DIA 12"	62	0.81	10.7	094	4013	4012
4013	STORM SEW CL A 3 24	DIA 24"	109	0.28	201.8	096	415	5001
4014	STORM SEW CL A 2 18	DIA 18"	43	0.46	59.9	094	4018	4004
4015	STORM SEW CL A 2 18	DIA 18"	2	3.36	0.1	094	4004	ES
5000	STORM SEW CL A 2 12	DIA 12"	86	0.58	19.4	094	5000	5033
5001	STORM SEW CL A 2 24	DIA 24"	199	0.55	193.6	094	5001	5003
5002	STORM SEW CL A 3 12	DIA 12"	59	0.34	102.8	094	5002	5003
5003	STORM SEW CL A 3 24	DIA 24"	35	0.03	73.5	094	5004	5001
5004	STORM SEW CL A 2 36	DIA 36"	185	0.49	274.1	094	5003	5007
5005	STORM SEW CL A 2 24	DIA 24"	5	1.03	6.7	095	5008	5017
5006	STORM SEW CL A 2 36	DIA 36"	54	0.56	46.6	095	5007	5012
5007	STORM SEW CL A 2 12	DIA 12"	17	1.21	3.7	094	5006	5004

PIPE/ CULVERT NO.	DESCRIPTION	DIA. (IN)	LENGTH (FT)	SLOPE (%)	TRENCH BACKFILL (CU YDS.)	SHEET NO.	FROM ST. 1	TO ST. 2
5008	STORM SEW CL A 2 12	DIA 12"	50	0.50	6.1	095	5009	5007
5009	STORM SEW CL A 1 12	DIA 12"	10	0.97	0.4	095	5018	5026
5010	STORM SEW CL A 2 12	DIA 12"	76	0.46	23.8	095	5010	5034
5011	STORM SEW CL A 2 36	DIA 36"	55	0.90	49.2	095	5012	5014
5012	STORM SEW CL A 2 12	DIA 12"	9	0.54	0.4	095	5011	5010
5013	STORM SEW CL A 2 42	DIA 42"	60	0.25	111.7	095	5016	5013
5014	STORM SEW CL A 2 36	DIA 36"	16	0.92	15.2	095	5014	5017
5015	STORM SEW CL A 1 12	DIA 12"	11	1.34	1.3	095	5015	5016
5016	STORM SEW CL A 2 30	DIA 30"	17	0.89	28.8	095	5019	5016
5017	STORM SEW CL A 2 36	DIA 36"	19	1.29	20.1	095	5017	5020
5018	STORM SEW CL A 3 12	DIA 12"	66	0.02	97.1	094	5005	5002
5019	STORM SEW CL A 2 12	DIA 12"	52	0.58	18.1	095	5022	5019
5020	STORM SEW CL A 2 36	DIA 36"	91	0.44	70.6	095	5021	5020
5021	STORM SEW CL A 2 36	DIA 36"	63	0.95	57.0	095	5025	5021
5022	STORM SEW CL A 2 12	DIA 12"	7	0.01	8.0	095	5023	5025
5023	STORM SEW CL A 1 12	DIA 12"	39	0.51	4.2	095	5024	5025
5024	STORM SEW CL A 2 24	DIA 24"	39	0.76	37.6	095	5027	5025
5025	STORM SEW CL A 2 12	DIA 12"	12	0.43	2.6	095	5026	5028
5026	STORM SEW CL A 1 15	DIA 15"	41	2.44	4.1	095	5028	5027
5027	STORM SEW CL A 2 12	DIA 12"	42	0.71	6.9	095	5029	5028
5028	STORM SEW CL A 1 12	DIA 12"	24	1.03	0.6	095	5030	5009
5029	STORM SEW CL A 2 12	DIA 12"	72	0.69	20.1	094	5033	5002
5030	STORM SEW CL A 2 12	DIA 12"	5	2.00	0.9	095	5032	5029
5031	STORM SEW CL A 2 12	DIA 12"	7	1.44	2.9	094	5034	5005
5032	STORM SEW CL A 1 12	DIA 12"	7	1.47	0.8	094	5036	5033
5033	STORM SEW CL A 2 12	DIA 12"	13	0.39	3.6	094	5035	5002
5034	STORM SEW CL A 2 12	DIA 12"	9	0.57	2.0	094	5037	5034
5035	STORM SEW CL A 2 12	DIA 12"	8	1.19	0.8	095	5038	5022
5036	STORM SEW CL A 1 12	DIA 12"	11	0.46	0.1	095	5039	5024
5037	STORM SEW CL A 1 12	DIA 12"	5	1.00	0.0	095	5040	5029
5038	STORM SEW CL A 2 42	DIA 42"	37	0.14	66.2	095	5020	5019
5051	STORM SEW CL A 2 24	DIA 24"	51	0.10	6.1	106	5052	5051
5052	STORM SEW CL A 2 24	DIA 24"	64	0.16	19.8	106	5053	5052
5053	STORM SEW CL A 2 24	DIA 24"	27	0.11	7.3	106	5054	5053
5054	STORM SEW CL A 2 24	DIA 24"	36	2.55	33.5	106	5055	5054
5055	STORM SEW CL A 2 24	DIA 24"	28	2.36	25.7	106	5056	5055
5056	STORM SEW CL A 2 24	DIA 24"	36	0.31	37.0	106	5057	5056
5057	STORM SEW CL A 2 24	DIA 24"	84	0.36	119.6	095	5013	5057

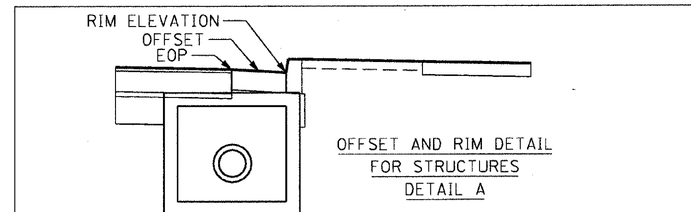
EP = CONNECT TO EXISTING PIPE
ES = CONNECT TO EXISTING STRUCTURE

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	093
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

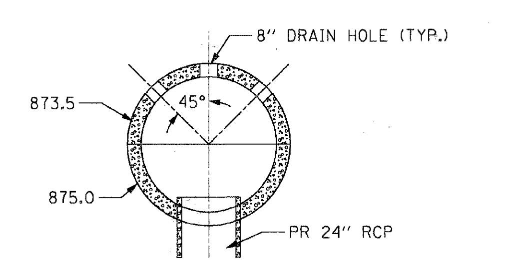
CONTRACT NO: 63522

NOTES:

1. OFFSETS FOR DRAINAGE STRUCTURES ARE TO THE CENTER OF THE LID OR GRATE (SEE DETAIL A). EXCEPTIONS ARE DRAINAGE STRUCTURES WITH RESTRICTORS, DRYWELLS OR 9' MH.
2. RIM ELEVATIONS FOR DRAINAGE STRUCTURES IN GUTTERS ARE AT THE FACE OF CURB. (SEE DETAIL A)
3. OFFSETS FOR DRAINAGE STRUCTURES WITH RESTRICTORS (WITH TWO LIDS OR GRATES), DRYWELLS OR 9' MH ARE TO THE CENTER OF THE STRUCTURE.
4. OFFSETS AND INVERT ELEVATIONS FOR FLARED END SECTIONS ARE AT THE CONNECTION WITH THE STORM SEWER. (SEE DETAIL B)
5. ADD 2 FOOT SUMP TO ALL RESTRICTOR MANHOLES.
6. DRYWELL DETAILS ARE SHOWN ON THE CRYSTAL LAKE DRYWELL STANDARD DETAIL UD-03.
7. PIPE LENGTHS SHOWN IN THE SCHEDULE DO NOT REFLECT PIPE LENGTH DEDUCTIONS FOR LOCATIONS WHERE PIPES MEETING WATER MAIN REQUIREMENT ARE REQUIRED. SEE SCHEDULE OF QUANTITIES FOR WATER MAIN REQUIREMENT PIPE LOCATIONS.

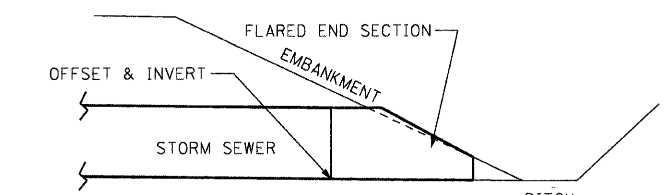


OFFSET AND RIM DETAIL FOR STRUCTURES DETAIL A

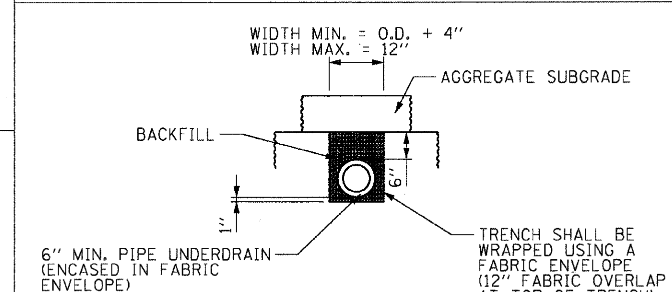


OUTFALL STRUCTURE DETAIL

MH TA 5', BOTTOM ELEVATION 869.0
CONCRETE SHALL BE USED TO FILL STRUCTURE FROM 869.0 TO 872.5
SEE VET PARK DRAINAGE SHEET FOR ADDITIONAL DETAILS



OFFSET AND INVERT FOR FLARED END SECTIONS DETAIL B



TRANSVERSE PIPE UNDERDRAIN DETAIL

LEGEND

- DS-XXXX STRUCTURE NO.
- SS-XXXX PIPE NO.
- PIPE REMOVAL
- PROP RIP RAP
- EX INLET
- EX CATCH BASIN
- EX MANHOLE
- EX STORM SEWER
- EX SANITARY SEWER
- EX DITCH
- PROP INLET
- PROP CATCH BASIN
- PROP MANHOLE
- PROP STORM SEWER
- PROP PIPE UNDERDRAINS, 6"
- PROP DITCH
- PROP SWALE
- PROP FLARED END SECTION
- PROP LEFT DITCH PROF
- PROP RIGHT DITCH PROF
- DET BASIN HWL
- R REMOVE STRUCTURE
- A ADJUST STRUCTURE
- CONCRETE HEADWALL FOR PIPE DRAINS
- DRY WELL

EXISTING UTILITIES

- T TELEPHONE
- CTV CABLE TELEVISION
- W WATER
- G GAS
- E ELECTRIC

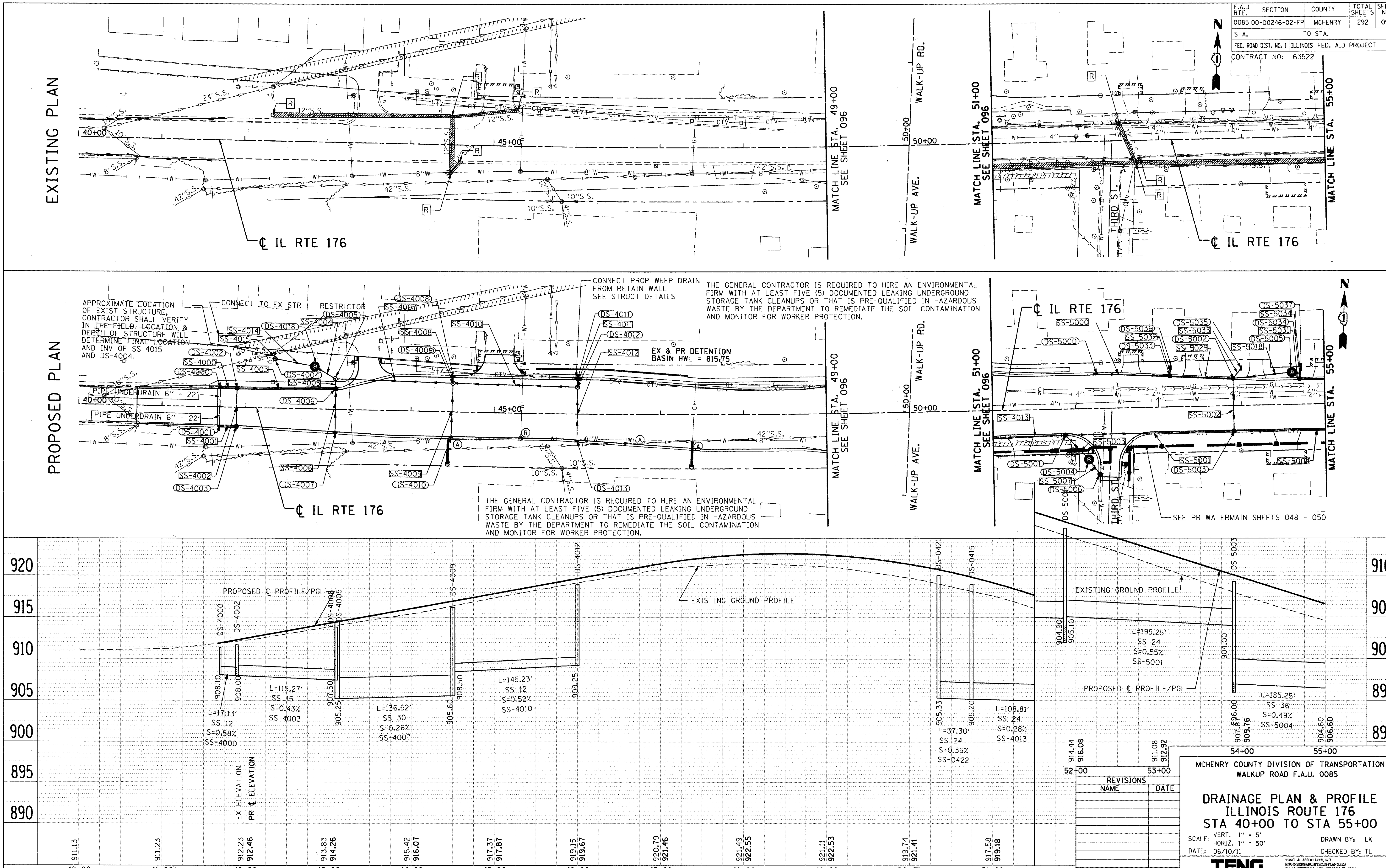
REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

DRAINAGE SCHEDULE SHEET 6 OF 6

SCALE: N.T.S. DRAWN BY: LK
DATE: 06/10/11 CHECKED BY: TL

TENG
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS 205 N. MICHIGAN AVE. CHICAGO, IL 60601



F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	094
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

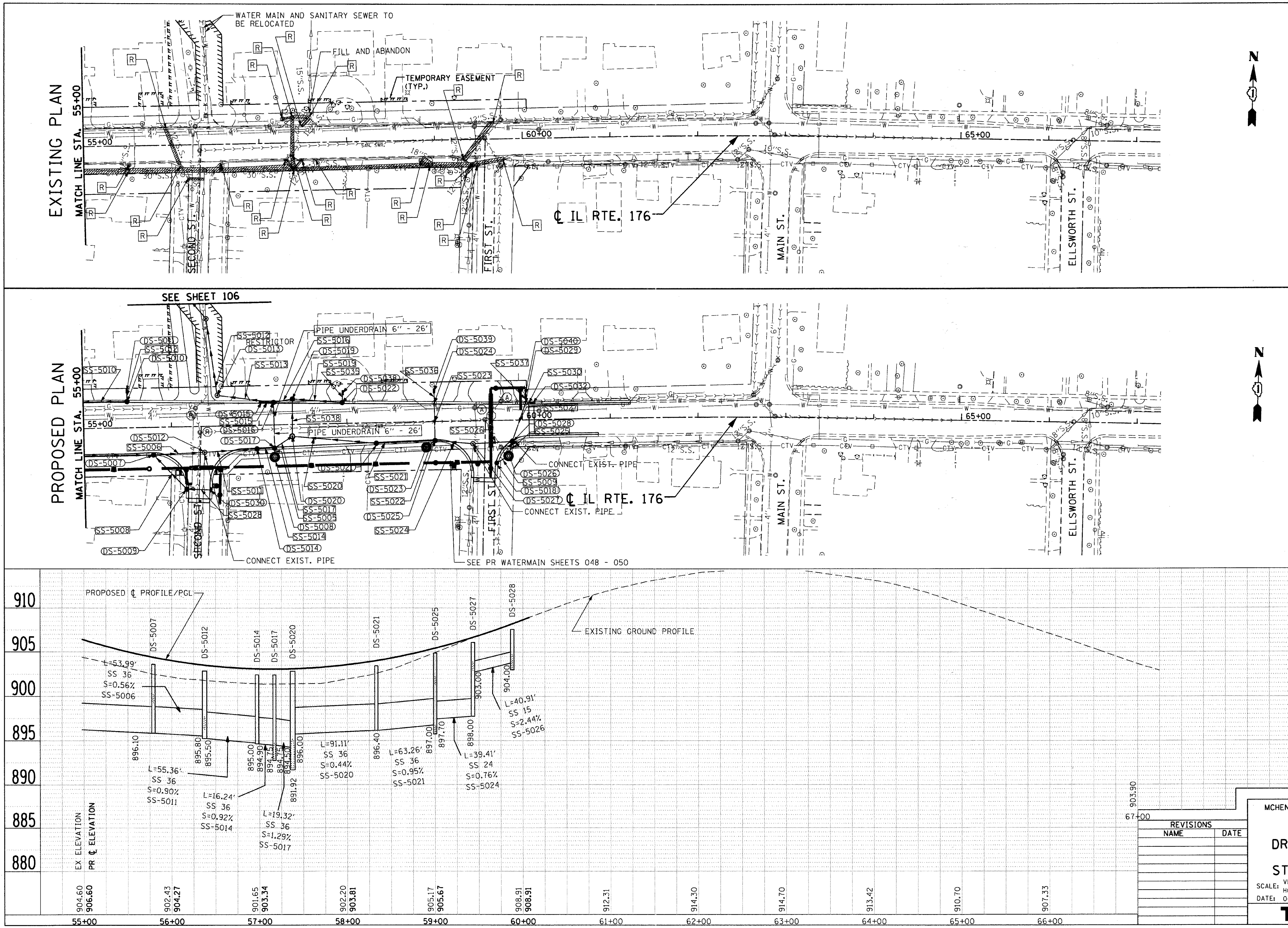
DRAINAGE PLAN & PROFILE ILLINOIS ROUTE 176 STA 40+00 TO STA 55+00

SCALE: VERT. 1" = 5' HORIZ. 1" = 50'
DATE: 06/10/11
DRAWN BY: LK
CHECKED BY: TL

TENG
TENG & ASSOCIATES, INC.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	095
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

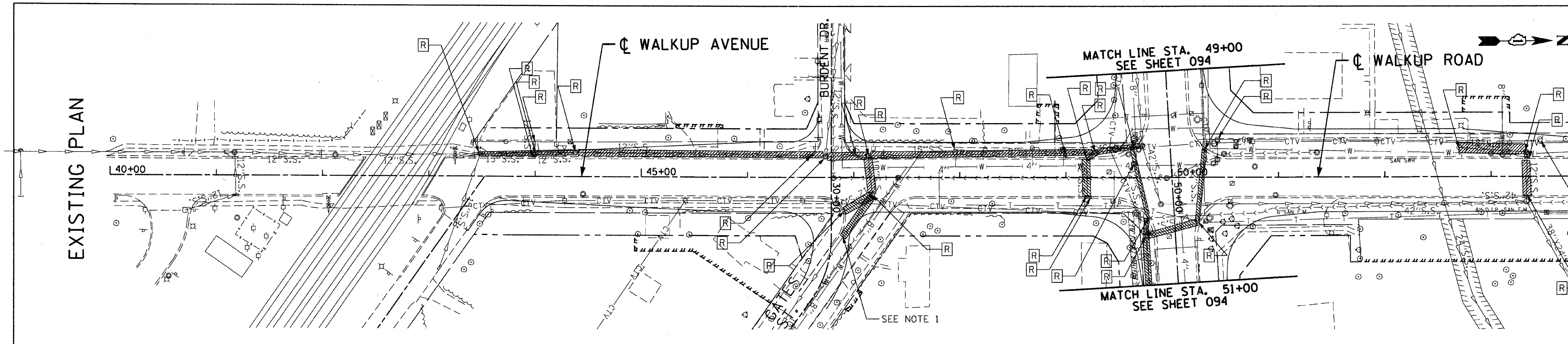
REVISIONS	
NAME	DATE

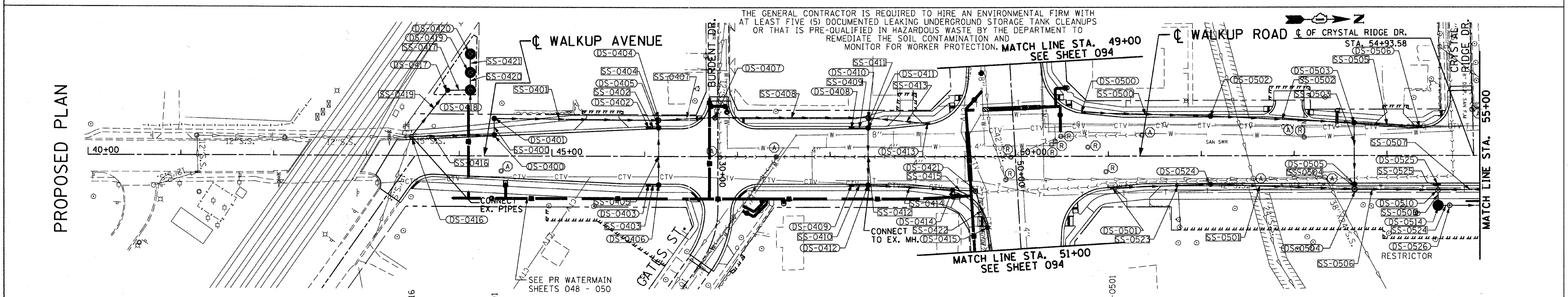
DRAINAGE PLAN & PROFILE ILLINOIS ROUTE 176 STA 55+00 TO STA 70+00

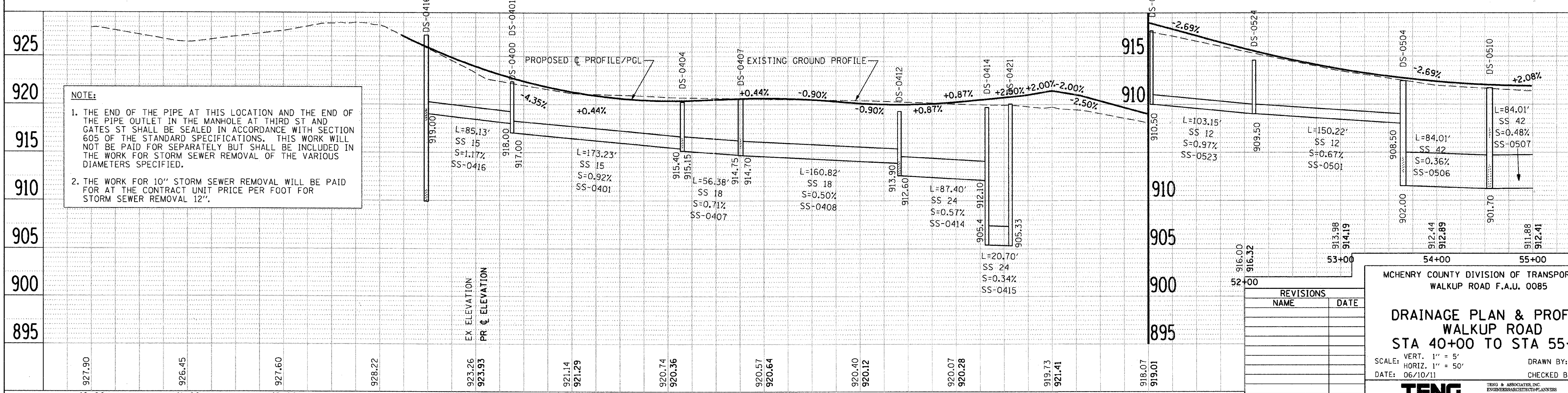
SCALE: VERT. 1" = 5' HORIZ. 1" = 50'
DATE: 04/15/11
DRAWN BY: LK
CHECKED BY: TL

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE: 312/616-0000

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	096
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
CONTRACT NO.				







NOTE:

1. THE END OF THE PIPE AT THIS LOCATION AND THE END OF THE PIPE OUTLET IN THE MANHOLE AT THIRD ST AND GATES ST SHALL BE SEALED IN ACCORDANCE WITH SECTION 605 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE WORK FOR STORM SEWER REMOVAL OF THE VARIOUS DIAMETERS SPECIFIED.
2. THE WORK FOR 10″ STORM SEWER REMOVAL WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR STORM SEWER REMOVAL 12″.

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

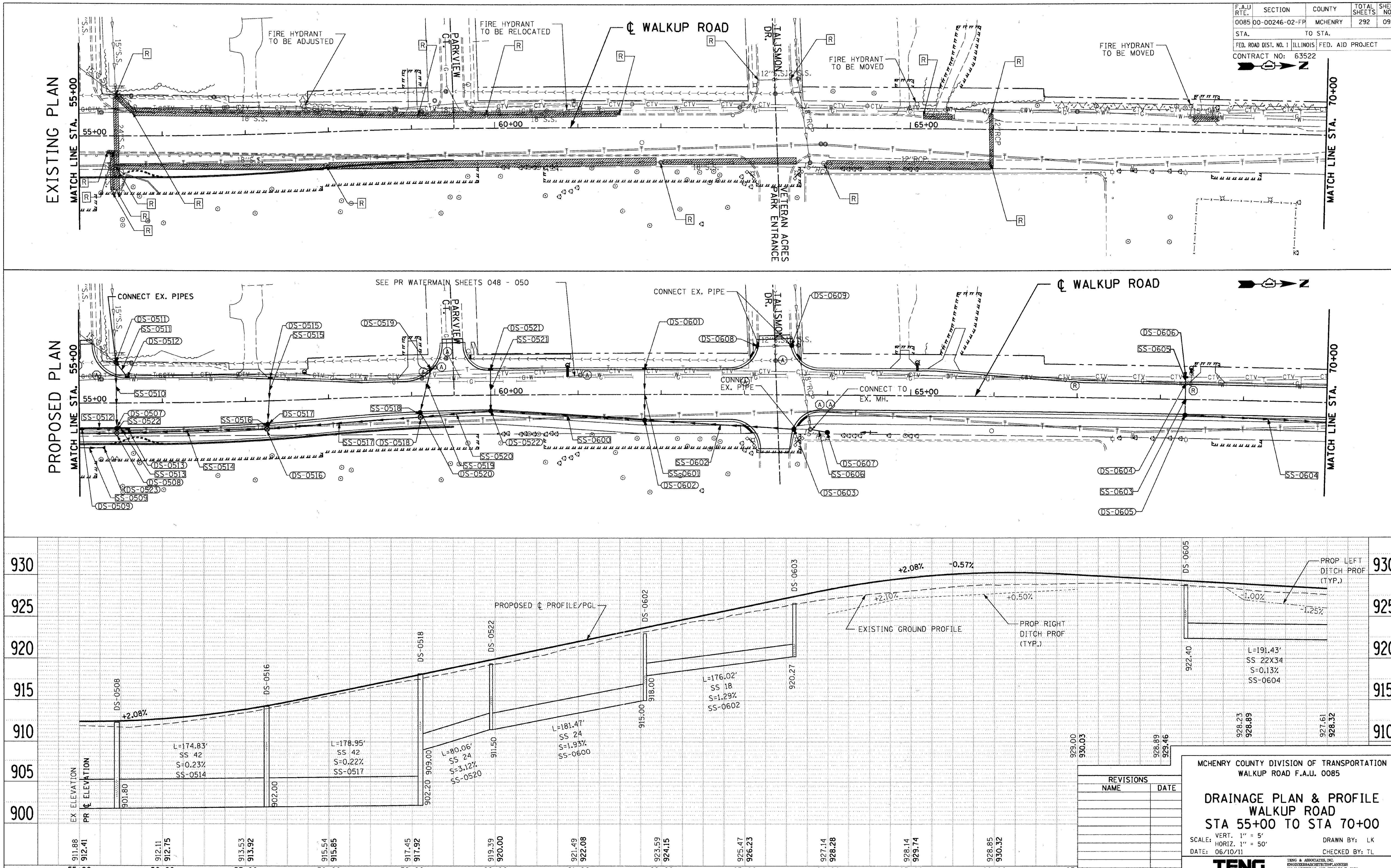
DRAINAGE PLAN & PROFILE
WALKUP ROAD
STA 40+00 TO STA 55+00

SCALE: VERT. 1″ = 5′ HORIZ. 1″ = 50′ — DRAWN BY: LK
DATE: 06/10/11 — CHECKED BY: TL

TENG — TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS 205 N. MICHIGAN AVE. CHICAGO, IL 60601

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	097
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

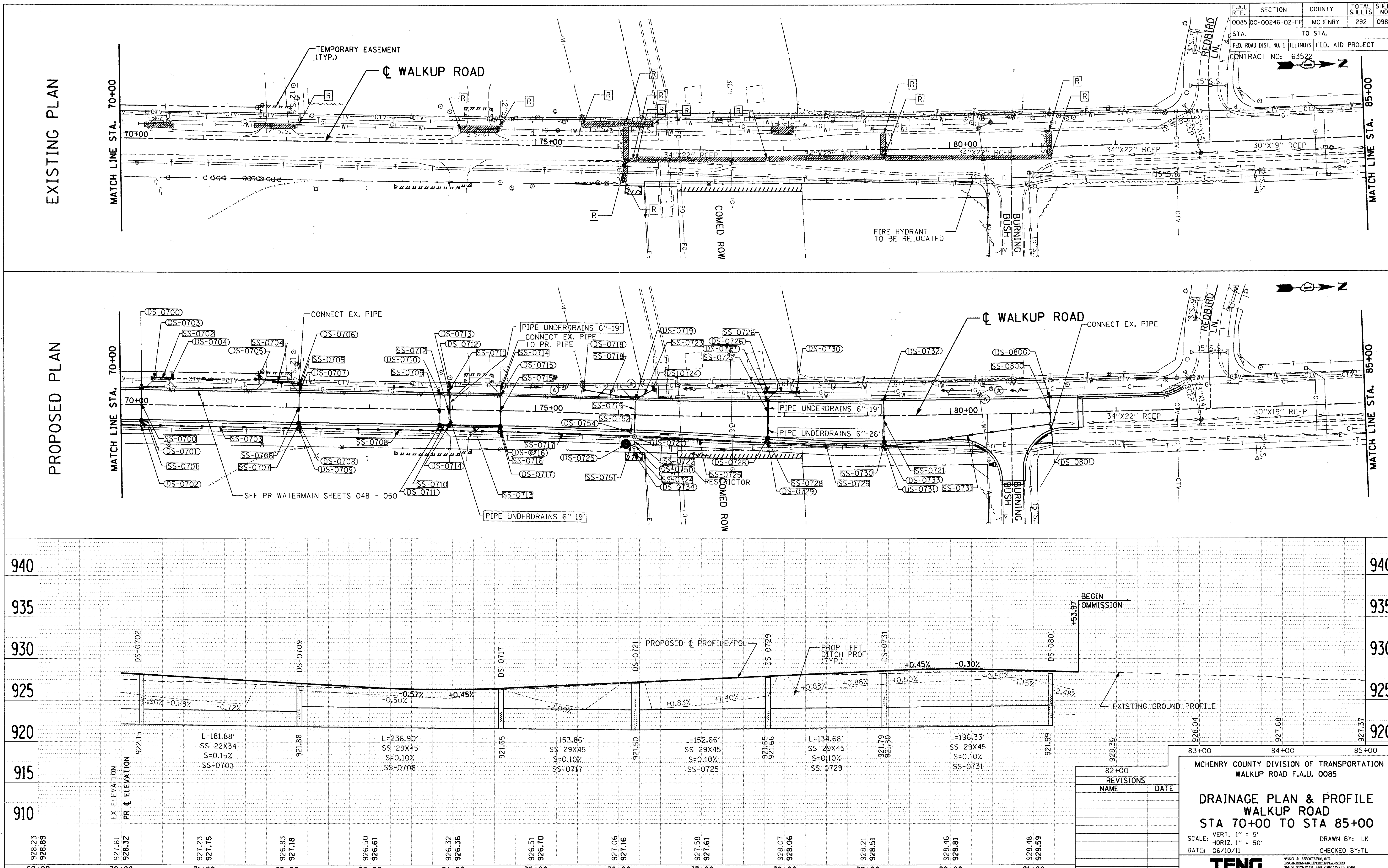
DRAINAGE PLAN & PROFILE WALKUP ROAD STA 55+00 TO STA 70+00

SCALE: VERT. 1" = 5'
HORIZ. 1" = 50'
DATE: 06/10/11

DRAWN BY: LK
CHECKED BY: TL

TENG

TENG & ASSOCIATES, INC.



F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	098

STA. TO STA.

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

CONTRACT NO: 63522

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

DRAINAGE PLAN & PROFILE WALKUP ROAD STA 70+00 TO STA 85+00

SCALE: VERT. 1" = 5' HORIZ. 1" = 50'

DATE: 06/10/11

DRAWN BY: LK

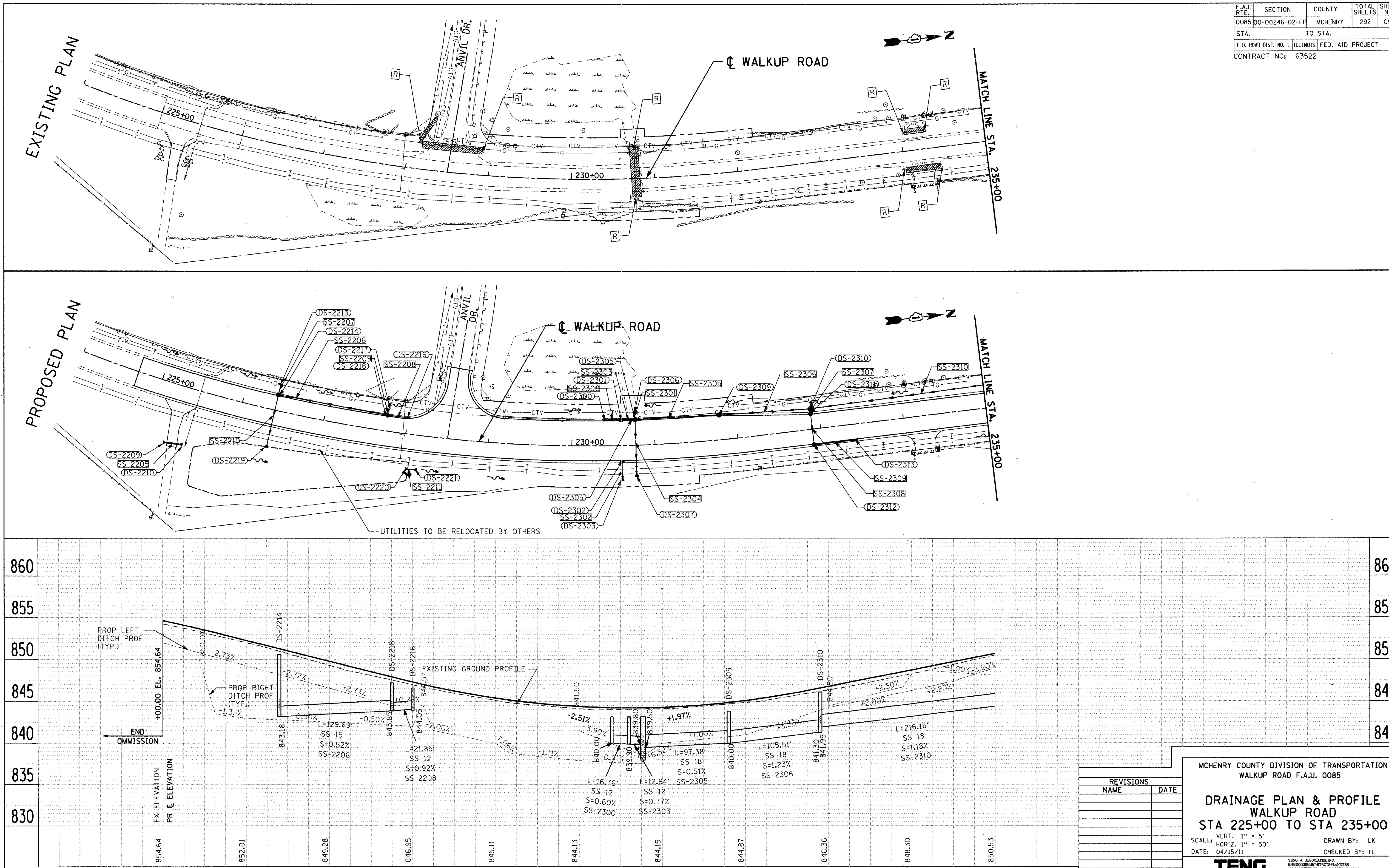
CHECKED BY: TL

REVISIONS	
NAME	DATE

TENG

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	099
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

CONTRACT NO: 63522



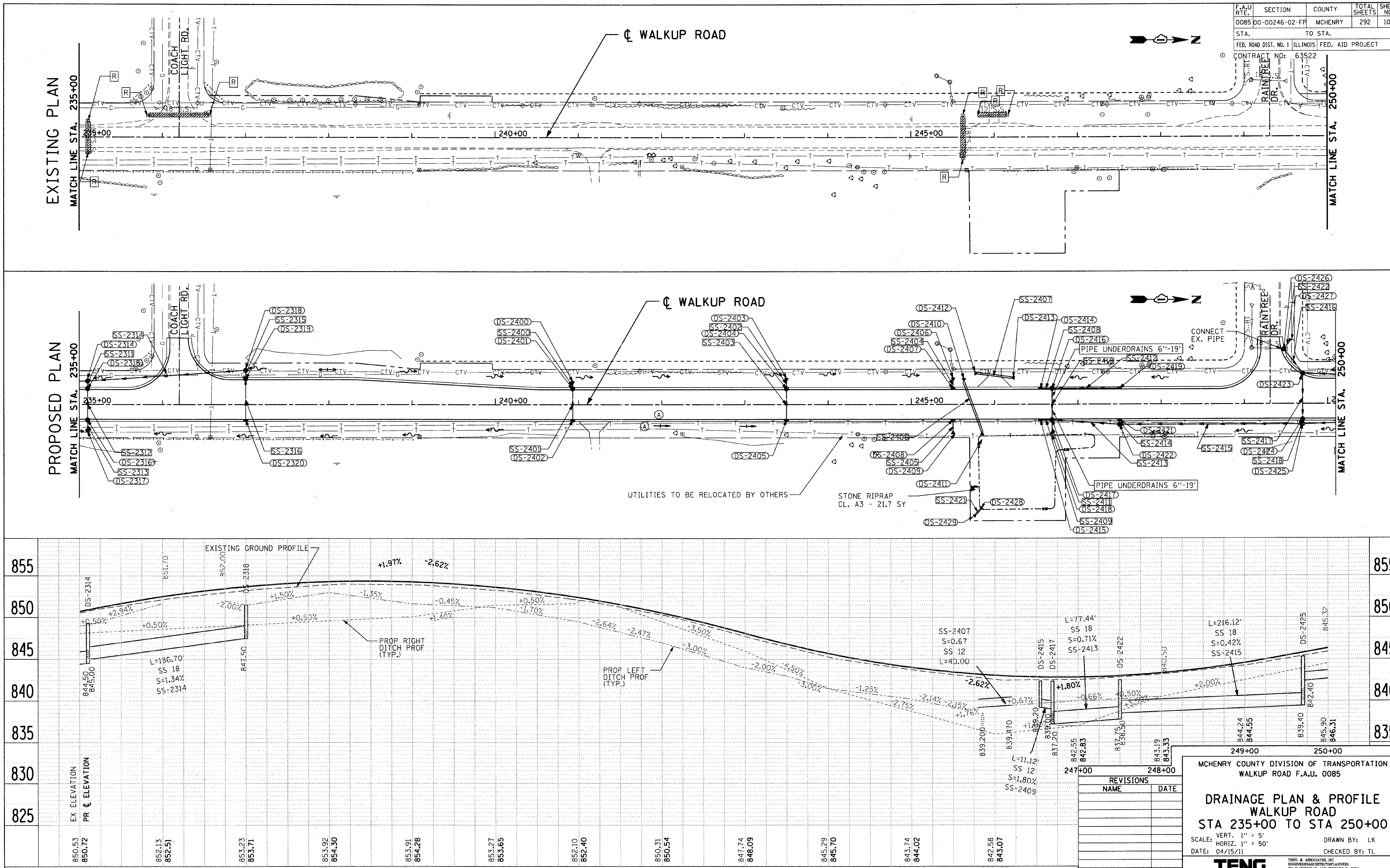
REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

DRAINAGE PLAN & PROFILE
WALKUP ROAD
STA 225+00 TO STA 235+00

SCALE: VERT. 1" = 5' HORIZ. 1" = 50'
DATE: 04/15/11
DRAWN BY: LK
CHECKED BY: TL

TENG
TENG & ASSOCIATES, INC.



F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0085	00-00246-02-FP	MCHENRY	292	100

STA. TO STA.

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

CONTRACT NO: 63522

REVISIONS	
NAME	DATE

MCHENRY COUNTY DIVISION OF TRANSPORTATION
WALKUP ROAD F.A.U. 0085

DRAINAGE PLAN & PROFILE
WALKUP ROAD
STA 235+00 TO STA 250+00

SCALE: VERT. 1" = 5'
HORIZ. 1" = 50'

DATE: 04/15/11

DRAWN BY: LK

CHECKED BY: TL

TENG

TENG & ASSOCIATES, INC.