04-27-12 LETTING ITEM 017

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHenry	* 266	1
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62537				

D-91-351-02 * 266 # 2-268

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA
ADT:

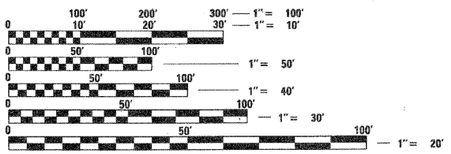
IL RTE. 176, TERRA COTTA ROAD TO IL RTE. 31 = 17,671 (2000) 22,000 (2020)
IL RTE. 176, IL RTE. 31 TO SMITH ROAD = 14,198 (2000) 18,000 (2020)
IL RTE. 31, CRYSTAL LAKE AVENUE TO IL RTE. 176 = 27,585 (2000) 36,000 (2020)
IL RTE. 31, IL RTE. 176 TO PRIME PARKWAY = 24,262 (2000) 32,000 (2020)
TERRA COTTA AVENUE = 3,190 (2000) 8,000 (2020)

DESIGN SPEED:
IL RTE. 31 = 45 MPH
IL RTE. 176 = 45 MPH
TERRA COTTA AVENUE = 45 MPH

POSTED SPEED LIMIT:
IL RTE. 31 = 40 MPH
IL RTE. 176 = 40 MPH
TERRA COTTA AVENUE = 40 MPH

DESIGN DESIGNATION:
IL. RTE. 31 2975 (20) PRINCIPAL ARTERIAL 11.31 (PCC-20)
IL RTE. 176 1825 (20) PRINCIPAL ARTERIAL 11.31 (PCC-20)

PROJECT LOCATED IN THE CITY OF CRYSTAL LAKE, NUNDA TOWNSHIP AND UNINCORPORATED McHENRY COUNTY



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.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

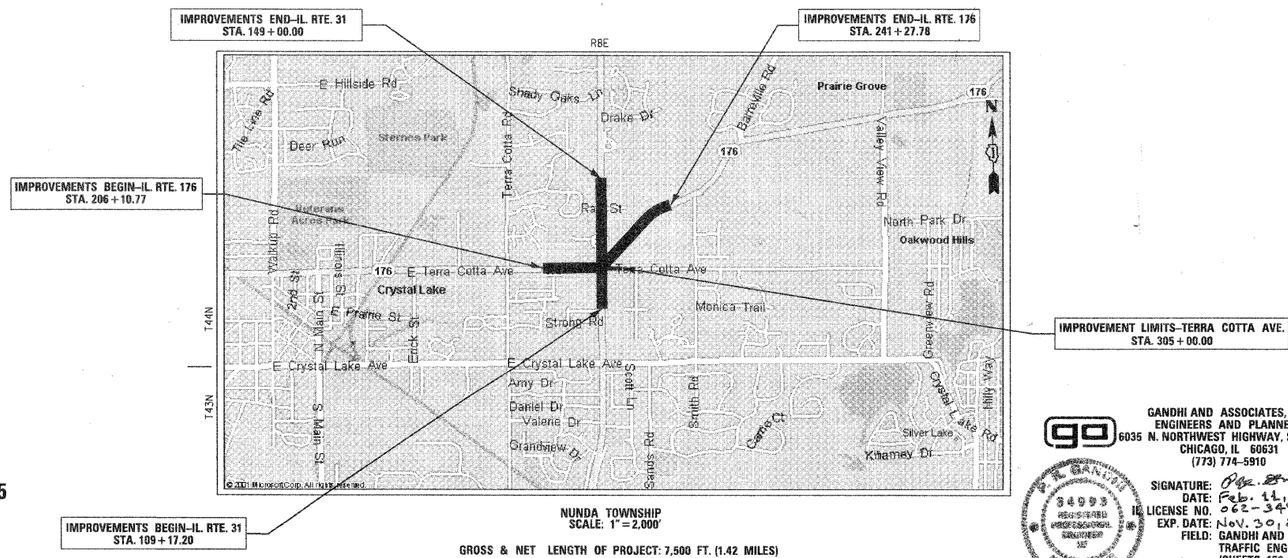
IDOT PROJECT ENGINEER: SUNG BYUN (847) 705-4288
IDOT PROJECT MANAGER: KIM HARVEY (847) 705-4055

CONTRACT NO. 62537

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

F.A.P. ROUTE 336 (IL. RTE. 31)
SECTION: 112R-N
PROJECT: NHF-0336(051)
AT IL. RTE. 176 AND AT TERRA COTTA AVENUE INTERSECTION RECONSTRUCTION AND TRAFFIC SIGNAL MODERNIZATION
McHENRY COUNTY
C-91-351-02



NUNDA TOWNSHIP
SCALE: 1" = 2,000'

GROSS & NET LENGTH OF PROJECT: 7,500 FT. (1.42 MILES)

LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED FEBRUARY 15 20 12
Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
March 23 20 12
John D. Baranzelli, P.E. for
acting ENGINEER OF DESIGN AND ENVIRONMENT
March 23 20 12
William R. Frey for
acting DIRECTOR OF HIGHWAYS: CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY, SUITE 306
CHICAGO, IL 60631
(773) 774-5910
SIGNATURE: Ajay Gandhi
DATE: Feb. 11, 2012
IL LICENSE NO. 062-34993
EXP. DATE: Nov. 30, 2013
FIELD: GANDHI AND ASSOCIATES, INC.
TRAFFIC ENGINEERING
(SHEETS 159 TO 177)

JAMES J. BENES & ASSOCIATES
CONSULTING ENGINEERS
950 WARRENVILLE ROAD, SUITE 101
LISLE, IL 60532
(630) 719-7570
SIGNATURE: Thomas Adamski
DATE: Feb. 10, 2012
IL. LICENSE NO. 062-045065
EXP. DATE: NOVEMBER 30, 2013
FIELD: JAMES J. BENES AND ASSOCIATES, INC.
CIVIL ENGINEERING
(SHEETS 1 TO 158 AND 178 TO 266)

Rev.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	2
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

PLAN — SURVEYED / PLOTTED / CROSS SECT. CHECKED / ALIGNMENT, PT. OF WAY CHECKED / F.A.P. FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / CROSS SECT. CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHKD / NOTE BOOK / NO. / BY / DATE

INDEX OF SHEETS

COMMITMENTS: NONE

LIST OF STATE STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-06	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
420101-04	7.2m (24') JOINTED PCC PAVEMENT
420106-04	10.8m (36') JOINTED PCC PAVEMENT
420111-03	PCC PAVEMENT ROUNDOUTS
424001-06	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424011	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424021	DEPRESSED CORNER FOR SIDEWALKS
424031	MEDIAN PEDESTRIAN CROSSINGS
442201-03	CLASS C AND D PATCHES
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542306-02	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTIONS
542311-03	GRATING FOR CONCRETE FLARED END SECTION (FOR 600mm (24") THRU 1350mm (54") PIPE)
542606-02	REINFORCED CONCRETE PIPE TEE
602001-02	CATCH BASIN, TYPE A
602011-02	CATCH BASIN, TYPE C
602301-03	INLET, TYPE A
602401-03	MANHOLE, TYPE A
602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	CAST IRON 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
606301-04	PC CONCRETE ISLANDS AND MEDIANS
606306-03	CORRUGATED PC CONCRETE MEDIAN
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
635001-01	DELINEATORS
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701011-02	OFF-ROAD MOVING OPERATIONS 2L, 2W DAY ONLY FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE 2L, 2W SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701326-04	LANE CLOSURE 2L, 2W PAVEMENT WIDENING FOR SPEEDS >45 MPH
701401-06	LANE CLOSURE, FREEWAY/EXPRESSWAY
701426-04	LANE CLOSURE MULTILANE INTERMITTENT OR MOVING OPERATION FOR SPEEDS > 45 MPH
701501-06	URBAN LANE CLOSURE 2L, 2W UNDIVIDED
701502-04	URBAN LANE CLOSURE 2L, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701601-07	URBAN LANE CLOSURE MULTILANE 1W OR 2W WITH NON TRAVERSABLE MEDIAN
701602-05	URBAN LANE CLOSURE MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-08	URBAN LANE CLOSURE MULTILANE 2W WITH MOUNTABLE MEDIAN
701701-08	URBAN LANE CLOSURE MULTILANE INTERSECTION
701801-05	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-02	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-03	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
720016-03	MAST ARM MOUNTED STREET NAME SIGNS
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS AND MARKERS)
780001-03	TYPICAL PAVEMENT MARKINGS
805001-01	ELECTRIC SERVICE INSTALLATION DETAILS
814001-02	CONCRETE HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING AND BONDING
877001-05	STEEL MAST ARM ASSEMBLY AND POLE
878001-09	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 LAYOUT FOR DETECTOR LOOPS

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED.)
2. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH ALL UTILITY COMPANIES AND THE CITY OF CRYSTAL LAKE.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
4. WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTION IN PREVENTING ADVERSE AFFECTS TO THE VISIBILITY OF THE MOTORING PUBLIC AS WELL AS THE ADJOINING RESIDENTIAL AREAS.
5. ALL ELEVATIONS ARE ON U.S.G.S. DATUM.
6. TEN (10) FOOT LONG TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER, SHOULDER AND MEDIAN ITEMS OF WORK TO EXISTING CURB AND GUTTER AND MEDIAN, UNLESS OTHERWISE SHOWN ON THE PLANS. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
7. ALL STORM SEWER CONNECTIONS WITH PIPES 27 INCHES DIAMETER AND SMALLER SHALL BE MADE WITH PRECAST "TEE" OR "WYE" PIPES. FOR PROPOSED STORM SEWER PIPES LARGER THAN 27 INCHES DIAMETER, OPENINGS OF THE SPECIFIED DIAMETER SHALL BE MADE IN THE PIPE AT THE TIME IT IS MANUFACTURED. PRECAST "TEE" AND "WYE" PIPE CONNECTIONS FOR PROPOSED STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST FOR THE STORM SEWERS.
8. USE NO. 25 (#8) EPOXY-COATED TIE BARS CONFORMING TO ART. 1006.10(2) OF THE STANDARD SPECIFICATIONS FOR LONGITUDINAL CONSTRUCTION JOINT GROUTED-IN-PLACE TIE BAR AS SHOWN ON STATE STANDARD 420001 AND AS SHOWN ON THE PLANS. THE TIE BARS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PAVEMENT ITEMS BEING CONSTRUCTED.
9. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1½ INCHES WHERE THE SPEED LIMIT IS 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 75 MM (3 INCHES) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
10. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND BITUMINOUS TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
11. ON STATE STANDARD 482001 AGGREGATE SUBGRADE OF THE THICKNESS SPECIFIED SHALL BE USED AS THE IMPROVED SUBGRADE. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE REQUIRED UNDER THE SHOULDER, AND UNDER THE COMBINATION CONCRETE CURB AND GUTTER SHALL BE INCLUDED IN THE COST PER SQUARE YARD OF "AGGREGATE SUBGRADE 12".
12. TYPE II BARRICADES WHEN USED FOR APPROACH TAPERS, AS INDICATED ON THE STATE STANDARDS OR SHOWN ON THE PLANS SHALL BE SAFETYCADE DIRECTION INDICATOR BARRICADES MANUFACTURED BY WLI INDUSTRIES, INC. 880 N. ADDISON, P.O. BOX 7050, VILLA PARK, IL 60181-7050 OR EQUIVALENT. THE CONTRACTORS BID PRICES FOR TRAFFIC CONTROL ITEMS SHALL INCLUDED THE COST OF THESE BARRICADES.
13. SAW CUTTING OF PAVEMENTS, SHOULDERS, ETC. SHALL BE TO FULL DEPTH AND SHALL RESULT IN CLEAN, STRAIGHT EDGE ON THE PORTION REMAINING. ALL SAW CUTTING SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM REMOVED.
14. STATIONING FOR ALL DRAINAGE STRUCTURES ARE GIVEN TO THE CENTER OF THE DRAINAGE STRUCTURE. OFFSETS FOR CURB LINE INLETS AND CATCH BASINS ARE GIVEN TO THE EDGE OF PAVEMENT. OFFSETS FOR ALL OTHER DRAINAGE STRUCTURES ARE GIVEN TO THE CENTER OF THE STRUCTURE. THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT ALL CURB LINE DRAINAGE STRUCTURES ARE PROPERLY ALIGNED WITH THE PROPOSED CURB AND GUTTER.
15. THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
16. TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS, THE ENGINEER SHALL CONTACT MS. DEBBIE HANLOW, AREA TRAFFIC FIELD TECHNICIAN AT (847) 438-2300.
17. THIS PROJECT MUST COMPLY WITH N.P.D.E.S. REGULATIONS. SEE EROSION AND SEDIMENT CONTROL PLAN FOR PROJECT SPECIFICATIONS.
18. ALL PAVEMENT WIDENING SHALL BE MEASURED AND PAID FOR AS HOT-MIX ASPHALT BASE COUSE, WIDENING OF THE THICKNESS SPECIFIED, REGARDLESS OF THE WIDTH OF THE WIDENING.

LIST OF DISTRICT ONE DETAILS

BD-01	DRIVEWAY DETAILS DISTANCE BETWEEN R.O.W. AND FACE OF CURB/EDGE OF SHOULDER >= 15' (4.5 m)
BD-02	DRIVEWAY DETAILS DISTANCE BETWEEN R.O.W. AND FACE < 15' (4.5 m)
BD-03	OUTLET FOR CONCRETE CURB AND GUTTER
BD-07	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER
BD-12	MANHOLE WITH RESTRICTOR PLATE
BD-32	BUTT JOINT AND HMA TAPER DETAILS
BD-36	FIRE HYDRANT TO BE MOVED
BD-48	PCC PAVEMENT ROUNDOUTS AT CURB AND GUTTER
BD-51	BENCHING DETAIL FOR EMBANKMENT WIDENING
BM-20	PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE
BM-21	REMOVE AND REERECT STEEEL PLATE BEAM GUARDRAIL
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-11	TYPICAL APPLICATIONS RAISED RELECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
TC-16	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
TC-22	ARTERIAL ROAD INFORMATION SIGN
TS-05	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

REVISIONS	
NAME	DATE

Rev.

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

GENERAL NOTES, INDEX OF SHEETS AND STATE STANDARDS

SCALE: NTS — DRAWN BY: SMP

DATE: 02/10/2012 — CHECKED BY: BDH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	3
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION TYPE CODES: ROADWAY 80% FED. 20% STATE 0003	TRAFFIC SIGNALS RTE 31 & RTE 176 80% FED. 20% STATE 0021	RTE 31/RTE 176 PRE-EMPTION EQUIPMENT 100% CRYSTAL LAKE 0021	TRAFFIC SIGNAL INTERCONNECT 80% FED 20% STATE 0021	UTILITIES 100% CRYSTAL LAKE 0043
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	592	592				
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	652	652				
20200100	EARTH EXCAVATION	CU YD	1,152	1,152				
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	33,777	33,777				
20400800	FURNISHED EXCAVATION	CU YD	6,345	6,345				
20800150	TRENCH BACKFILL	CU YD	8225	7,504				721
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	53,454	53,454				
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	42,015	42,015				
21101815	COMPOST FURNISH AND PLACE, 4"	SQ YD	4,102	4,102				
25000210	SEEDING, CLASS 2A	ACRE	4.05	4.05				
25000312	SEEDING, CLASS 4A	ACRE	0.85	0.85				
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	668	668				
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	668	668				
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	668	668				
25100115	MULCH, METHOD 2	ACRE	7.28	7.28				
25100630	EROSION CONTROL BLANKET	SQ YD	23,719	23,719				
25200110	SODDING, SALT TOLERANT	SQ YD	18,296	18,296				
25200200	SUPPLEMENTAL WATERING	UNIT	384	384				
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	728	728				
28000500	INLET AND PIPE PROTECTION	EACH	39	39				
28000510	INLET FILTERS	EACH	195	195				
28100713	STONE DUMPED RIPRAP, CLASS A7	SQ YD	76	76				
28200200	FILTER FABRIC	SQ YD	76	76				
30300112	AGGREGATE SUBGRADE IMPROVEMENT, 12"	SQ YD	60,765	60,765				
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	2,635	2,635				
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	1,452	1,452				
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	6,878	6,878				
35600714	HOT-MIX ASPHALT BASE COURSE WIDENING, 9 1/2"	SQ YD	2,353	2,353				
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	3,391	3,391				
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	18	18				
40600300	AGGREGATE (PRIME COAT)	TON	51	51				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	1	1				
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	479	479				
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL 4.75, N50	TON	355	355				
40600895	CONSTRUCTING TEST STRIP	EACH	7	7				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	26	26				
40600990	TEMPORARY RAMP	SQ YD	244	244				
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	187	187				
40603240	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90	TON	1,135	1,135				

⊕ - DENOTES SPECIALTY ITEMS

△ - 0042 COST CODE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

SUMMARY OF QUANTITIES

SCALE: NTS — DRAWN BY: BCD

DATE: 02/10/2012 — CHECKED BY: BDH

PLAN: SURVEYED, PLOTTED, DRAWN, CHECKED, ALIGNMENT, RT. OF WAY, CHECKED, P.E. FILE NAME, NOTE BOOK, NO.

PROFILE: SURVEYED, PLOTTED, DRAWN, CHECKED, B.M. NOTED, STRUCTURE NO(S) & ITNS. CHKD, NOTE BOOK, NO.

BY, DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	4
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODES: ROADWAY 20% STATE 0003	TRAFFIC SIGNALS RTE 31 @ RTE 176 20% STATE 0021	RTE 31/RTE 176 PRE-EMPTION EQUIPMENT 100% CRYSTAL LAKE 0021	TRAFFIC SIGNAL INTERCONNECT 80% FED 20% STATE 0021	UTILITIES 100% CRYSTAL LAKE 0043
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	1,057	1,057				
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	829	829				
40702700	FURNISH PROFILOGRAPH	L SUM	1	1				
42000416	PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4 (JOINTED)	SQ YD	47,437	47,437				
42001300	PROTECTIVE COAT	SQ YD	57,824	57,824				
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8"	SQ YD	514	514				
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	6,129	6,129				
44000100	PAVEMENT REMOVAL	SQ YD	45,096	45,096				
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	6,150	6,150				
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	14,586	14,586				
44000300	CURB REMOVAL	FOOT	1,009	1,009				
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	12,187	12,187				
44000600	SIDEWALK REMOVAL	SQ FT	5,737	5,737				
44004000	PAVED DITCH REMOVAL	FOOT	269	269				
44004250	PAVED SHOULDER REMOVAL	SQ YD	3,935	3,935				
44201690	CLASS D PATCHES, TYPE I, 4 INCH	SQ YD	44	44				
44201692	CLASS D PATCHES, TYPE II, 4 INCH	SQ YD	67	67				
44201694	CLASS D PATCHES, TYPE III, 4 INCH	SQ YD	67	67				
44201696	CLASS D PATCHES, TYPE IV, 4 INCH	SQ YD	44	44				
44201761	CLASS D PATCHES, TYPE I, 10 INCH	SQ YD	22	22				
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	305	305				
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	65	65				
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	115	115				
48101200	AGGREGATE SHOULDERS, TYPE B	TON	236	236				
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	2,902	2,902				
50104400	CONCRETE HEADWALL REMOVAL	EACH	2	2				
50105220	PIPE CULVERT REMOVAL	FOOT	2,215	2,215				
54001001	BOX CULVERT END SECTION, CULVERT NO. 1	EACH	2	2				
54010402	PRECAST CONCRETE BOX CULVERTS, 4' X 2'	FOOT	75	75				
542D0217	PIPE CULVERTS, CLASS D, TYPE 1, 12"	FOOT	159	159				
542D0220	PIPE CULVERTS, CLASS D, TYPE 1, 15"	FOOT	55	55				
5421D012	PIPE CULVERTS, CLASS D, TYPE 1, 12" (TEMPORARY)	FOOT	346	346				
5421D015	PIPE CULVERTS, CLASS D, TYPE 1, 15" (TEMPORARY)	FOOT	226	226				
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	2	2				
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	3	3				
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	3	3				
54214719	PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ELLIPTICAL, EQUIVALENT ROUND-SIZE, 24"	EACH	1	1				
54247150	GRATING FOR CONCRETE FLARED END SECTION 30"	EACH	3	3				
54247170	GRATING FOR CONCRETE FLARED END SECTION 36"	EACH	3	3				

◕ - DENOTES SPECIALTY ITEMS

△ - 0042 COST CODE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

SUMMARY OF QUANTITIES

SCALE: NTS
DATE: 02/10/2012
DRAWN BY: BCD
CHECKED BY: BDH

PLAN — NOTE BOOK NO. — SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME — BY — DATE

PROFILE — NOTE BOOK NO. — SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD — BY — DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	5
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
ST. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
R.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION TYPE CODES: ROADWAY 80% FED. 20% STATE 0003	TRAFFIC SIGNALS RTE 31 @ RTE 176 80% FED. 20% STATE 0021	RTE 31/RTE 176 PRE-EMPTION EQUIPMENT 100% CRYSTAL LAKE 0021	TRAFFIC SIGNAL INTERCONNECT 80% FED 20% STATE 0021	UTILITIES 100% CRYSTAL LAKE 0043
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	68	68				
550A0140	STORM SEWERS, CLASS A, TYPE 1 30"	FOOT	47	47				
550A0160	STORM SEWERS, CLASS A, TYPE 1 36"	FOOT	282	282				
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	3,434	3,434				
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	212	212				
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	808	808				
550A0400	STORM SEWERS, CLASS A, TYPE 2 21"	FOOT	708	708				
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	702	702				
550A0420	STORM SEWERS, CLASS A, TYPE 2 27"	FOOT	507	507				
550A0430	STORM SEWERS, CLASS A, TYPE 2 30"	FOOT	1,161	1,161				
550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	457	457				
550A4900	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 24"	FOOT	493	493				
550A5100	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 30"	FOOT	244	244				
550B0300	STORM SEWERS, CLASS B, TYPE 2, 4"	FOOT	20	20				
55100300	STORM SEWER REMOVAL 8"	FOOT	28	28				
55100400	STORM SEWER REMOVAL 10"	FOOT	89	89				
55100500	STORM SEWER REMOVAL 12"	FOOT	2,136	2,136				
55100700	STORM SEWER REMOVAL 15"	FOOT	2,240	2,240				
55100900	STORM SEWER REMOVAL 18"	FOOT	583	583				
55101100	STORM SEWER REMOVAL 21"	FOOT	48	48				
55101200	STORM SEWER REMOVAL 24"	FOOT	894	894				
56100030	DUCTILE IRON WATER MAIN TEE, 10" X 6"	EACH	2					2
56100035	DUCTILE IRON WATER MAIN TEE, 10" X 8"	EACH	4					4
56100040	DUCTILE IRON WATER MAIN TEE, 10" X 10"	EACH	2					2
56100700	WATER MAIN 8"	FOOT	45					45
56100800	WATER MAIN 10"	FOOT	880					880
56105000	WATER VALVES 8"	EACH	4					4
56105100	WATER VALVES 10"	EACH	1					1
56106400	ADJUSTING WATER MAIN 8"	FOOT	35					35
56106500	ADJUSTING WATER MAIN 10"	FOOT	128					128
56109000	TAPPING VALVES AND SLEEVES 10"	EACH	2					2
56109402	DUCTILE IRON WATER MAIN FITTINGS 10" 11.25 DEGREE BEND	EACH	2					2
56109410	DUCTILE IRON WATER MAIN FITTINGS 10" 22.50 DEGREE BEND	EACH	2					2
56109420	DUCTILE IRON WATER MAIN FITTINGS 8" 45.00 DEGREE BEND	EACH	4					4
56109422	DUCTILE IRON WATER MAIN FITTINGS 10" 45.00 DEGREE BEND	EACH	9					9
56109436	DUCTILE IRON WATER MAIN FITTINGS 10" 90.00 DEGREE BEND	EACH	3					3
56200300	WATER SERVICE LINE 1"	FOOT	10					10
56400100	FIRE HYDRANTS TO BE MOVED	EACH	9					9

◒ - DENOTES SPECIALTY ITEMS

△ - 0042 COST CODE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

SUMMARY OF QUANTITIES

SCALE: NTS
DATE: 02/10/2012
DRAWN BY: BCD
CHECKED BY: BDH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	6
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

SUMMARY OF QUANTITIES

				CONSTRUCTION TYPE CODES				
				ROADWAY	TRAFFIC SIGNALS RTE 31 @ RTE 176	RTE 31/RTE 176 PRE-EMPTION EQUIPMENT	TRAFFIC SIGNAL INTERCONNECT	UTILITIES
			URBAN	80% FED.	80% FED.		80% FED	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	20% STATE 0003	20% STATE 0021	100% CRYSTAL LAKE 0021	20% STATE 0021	100% CRYSTAL LAKE 0043
56400300	FIRE HYDRANTS TO BE ADJUSTED	EACH	3					3
56400500	FIRE HYDRANTS TO BE REMOVED	EACH	2					2
56400600	FIRE HYDRANTS	EACH	2					2
56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	4					4
60107600	PIPE UNDERDRAINS 4"	FOOT	5,490	5,490				
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	154	154				
60200305	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	4	4				
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	10	10				
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	65	65				
60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	1	1				
60207005	CATCH BASINS, TYPE C, TYPE 1 FRAME, CLOSED LID	EACH	2	2				
60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	5	5				
60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	34	34				
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4	4				
60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1	1				
60221000	MANHOLES, TYPE A, 5' DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	2	2				
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	18	18				
60221102	MANHOLES, TYPE A, 5' DIAMETER, TYPE 1 FRAME, CLOSED LID RESTRICTOR PLATE	EACH	1	1				
60221700	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 8 GRATE	EACH	5	5				
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1				
60235700	INLET TYPE A, TYPE 3 FRAME AND GRATE	EACH	2	2				
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	7	7				
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	2	2				
60240328	INLET TYPE B, TYPE 24 FRAME AND GRATE	EACH	1	1				
60248700	VALVE VAULTS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4					4
60248900	VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3					3
60250200	CATCH BASINS TO BE ADJUSTED	EACH	1	1				
60255500	MANHOLES TO BE ADJUSTED	EACH	8	8				
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	11	11				
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	2	2				
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	3					3
60265900	VALVE VAULTS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	3					3
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	1	1				
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	1	1				
60500040	REMOVING MANHOLES	EACH	17	17				
60500050	REMOVING CATCH BASINS	EACH	40	40				
60500060	REMOVING INLETS	EACH	15	15				
60500105	FILLING MANHOLES	EACH	1	1				
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	8	8				

PLAN: SURVEYED, PLOTTED, PROPERLY CHECKED, ALIGNMENT CHECKED, INT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, PROPERLY CHECKED, R.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

⊕ - DENOTES SPECIALTY ITEMS

△ - 0042 COST CODE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

SUMMARY OF QUANTITIES

SCALE: NTS
DRAWN BY: BCD
DATE: 02/10/2012
CHECKED BY: BDH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	7

STA. TO STA.

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

CONTRACT NO. 62537

SUMMARY OF QUANTITIES

				CONSTRUCTION TYPE CODES				
				ROADWAY	TRAFFIC SIGNALS RTE 31 @ RTE 176	RTE 31/RTE 176 PRE-EMPTION EQUIPMENT	TRAFFIC SIGNAL INTERCONNECT	UTILITIES
			URBAN TOTAL	80% FED. 20% STATE	80% FED. 20% STATE	100% CRYSTAL LAKE	80% FED 20% STATE	100% CRYSTAL LAKE
CODE NO.	ITEM	UNIT	QUANTITY	0003	0021	0021	0021	0043
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	6,029	6,029				
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	11,174	11,174				
60608300	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12	FOOT	676	676				
60608600	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.06	FOOT	160	160				
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	18,437	18,437				
60619600	CONCRETE MEDIAN, TYPE SB-6.12	SQ FT	15,466	15,466				
60624600	CORRUGATED MEDIAN	SQ FT	1,115	1,115				
63200310	GUARDRAIL REMOVAL	FOOT	240	240				
63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	145	145				
63302000	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 2	EACH	1	1				
63500105	DELINEATORS	EACH	18	18				
66900105	UNDERGROUND STORAGE TANK REMOVAL	EACH	1	1				
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	17,400	17,400				
66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1				
66900530	SOIL DISPOSAL ANALYSIS	EACH	8	8				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	18	18				
67100100	MOBILIZATION	L SUM	1	1				
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	230	230				
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	24	24				
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	5,329	5,329				
70300210	TEMPORARY PAVEMENT MARKING - LETTERS & SYMBOLS	SQ FT	838	838				
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	80,282	80,282				
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	5,591	5,591				
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1,851	1,851				
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	523	523				
70300510	PAVEMENT MARKING TAPE, TYPE III - LETTERS AND SYMBOLS	SQ FT	146	146				
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	17,706	17,706				
70300540	PAVEMENT MARKING TAPE, TYPE III 6"	FOOT	601	601				
70300560	PAVEMENT MARKING TAPE, TYPE III 12"	FOOT	304	304				
70300570	PAVEMENT MARKING TAPE, TYPE III 24"	FOOT	18	18				
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	26,585	26,585				
70400100	TEMPORARY CONCRETE BARRIER	FOOT	590	590				
72000100	SIGN PANEL - TYPE 1	SQ FT	650	578	72			
72900200	METAL POST - TYPE B	FOOT	780	780				
~~73600200~~	~~REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER~~	~~EACH~~	~~2~~	~~2~~				
~~73700200~~	~~REMOVE CONCRETE FOUNDATION - GROUND MOUNT~~	~~EACH~~	~~2~~	~~2~~				
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	109	109				
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	15,710	15,710				
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	793	793				
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	407	407				

- DENOTES SPECIALTY ITEMS

△ - 0042 COST CODE

Rev.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

SUMMARY OF QUANTITIES

SCALE: NTS DRAWN BY: BCD
DATE: 02/10/2012 CHECKED BY: BDH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	8

STA. TO STA.

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

CONTRACT NO. 62537

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	ROADWAY 80% FED. 20% STATE 0003	TRAFFIC SIGNALS RTE 31 @ RTE 176 80% FED. 20% STATE 0021	RTE 31/RTE 176 PRE-EMPTION EQUIPMENT 100% CRYSTAL LAKE 0021	TRAFFIC SIGNAL INTERCONNECT 80% FED 20% STATE 0021	UTILITIES 100% CRYSTAL LAKE 0043
78008200	POLYUREA PAVEMENT MARKING TYPE 1 - LETTERS AND SYMBOLS	SQ FT	1,461	1,461				
78008210	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 4"	FOOT	9,675	9,675				
78008230	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 6"	FOOT	5,223	5,223				
78008240	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 8"	FOOT	609	609				
78008250	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 12"	FOOT	666	666				
78008270	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 24"	FOOT	369	369				
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	554	554				
78100200	TEMPORARY RAISED REFLECTIVE PAVEMENT MARKER	EACH	282	282				
78300100	PAVEMENT MARKING REMOVAL	SQ FT	14,649	14,649				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	470	470				
80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1		1			
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	2,398		1,376		1,022	
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	144		144			
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	29		29			
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1,001		1,001			
81400100	HANDHOLE	EACH	8		7		1	
81400200	HEAVY-DUTY HANDHOLE	EACH	4		4			
81400300	DOUBLE HANDHOLE	EACH	3		3			
84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	1	1				
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1				1	
86000105	MASTER CONTROLLER (SPECIAL)	EACH	1				1	
86400100	TRANSCEIVER-FIBER OPTIC	EACH	1		1			
87100020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	2,865				2,865	
87300925	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1C	FOOT	2,839				2,839	
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	350		350			
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,810		1,810			
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3,815		3,815			
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2,411		2,411			
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	7,920		7,920			
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	36		36			
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,129		1,129			
87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1		1			
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	4		4			
87700270	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1		1			
87700290	STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.	EACH	1		1			
87700310	STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.	EACH	2		2			
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20		20			
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4			
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	58		58			

⊕ - DENOTES SPECIALTY ITEMS

△ - 0042 COST CODE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

SUMMARY OF QUANTITIES

SCALE: NTS
DRAWN BY: BCD
DATE: 02/10/2012
CHECKED BY: BDH

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHKD / NOTE BOOK / NO. / BY / DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	9

STA. TO STA.

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

CONTRACT NO. 62537

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	ROADWAY 80% FED. 20% STATE 0003	TRAFFIC SIGNALS RTE 31 @ RTE 176 80% FED. 20% STATE 0021	RTE 31/RTE 176 PRE-EMPTION EQUIPMENT 100% CRYSTAL LAKE 0021	TRAFFIC SIGNAL INTERCONNECT 80% FED 20% STATE 0021	UTILITIES 100% CRYSTAL LAKE 0043
87900200	DRILL EXISTING HANDHOLE	EACH	1				1	
88030020	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	8		8			
88030110	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4		4			
88030240	SIGNAL HEAD, L.E.D., 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	4		4			
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	1		1			
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	12		12			
88500100	INDUCTIVE LOOP DETECTOR	EACH	21		21			
88600700	PREFORMED DETECTOR LOOP	FOOT	1,269		1,269			
88700200	LIGHT DETECTOR	EACH	4			4		
88700300	LIGHT DETECTOR AMPLIFIER	EACH	1			1		
88800100	PEDESTRIAN PUSH-BUTTON	EACH	3		3			
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1			
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3,188				3,188	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1			
89502380	REMOVE EXISTING HANDHOLE	EACH	11		11			
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	12		12			
Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SQ YD	278	278				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1				
Z0019500	DRYWELL	EACH	6	6				
Z0023204	SEDIMENT CONTROL, SILT FENCE	FOOT	5,503	5,503				
Z0024478	FLEXIBLE DELINEATORS	EACH	25	25				
Z0030255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2	2				
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	766	766				
Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	1				1	
Z0042002	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	1,629	1,629				
Z0056608	STORM SEWERS (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	1,619	1,619				
Z0056620	STORM SEWERS (WATER MAIN REQUIREMENTS) 30 INCH	FOOT	9	9				
Z0056900	SANITARY SEWER 8"	FOOT	220					220
Z0062456	TEMPORARY PAVEMENT	SQ YD	10,614	10,614				
Z0067700	STEEL CASINGS 20"	FOOT	64					64
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMINGS	EACH	1		1			
△ ~~Z0076600~~	~~TRAINEES~~	~~HOUR~~						
A2000220	TREE, ACER X FREEMANII MARMO (MARMO FREEMAN MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	12	12				
A2004724	TREE, GLEDITSIA TRIACANTHOS INERMIS SHADEMASTER (SHADEMASTER THORNLESS COMMON HONEYLOCUST), 3" CALIPER, BALLED AND BURLAPPED	EACH	12	12				
A2005020	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	12	12				
A2006720	TREE, QUERCUS MACROCARPA (BUR OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	10	10				
A2007920	TREE, TILIA AMERICANA REDMOND (REDMOND AMERICAN LINDEN), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	12	12				

⊕ - DENOTES SPECIALTY ITEMS

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PROFILE	NOTE BOOK NO.	SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATNS CHKD	BY	DATE

Rev.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

SUMMARY OF QUANTITIES

SCALE: NTS
DATE: 02/10/2012
DRAWN BY: BCD
CHECKED BY: BDH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	10
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION TYPE CODES: ROADWAY 80% FED. 20% STATE 0003	TRAFFIC SIGNALS RTE 31 & RTE 176 80% FED. 20% STATE 0021	RTE 31/RTE 176 PRE-EMPTION EQUIPMENT 100% CRYSTAL LAKE 0021	TRAFFIC SIGNAL INTERCONNECT 80% FED 20% STATE 0021	UTILITIES 100% CRYSTAL LAKE 0043
B2001666	TREE, CRATAEGUS CRUSGALLI INERMIS (THORN LESS COCKSPUR HAWTHORN), 6' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	12	12				
B2004516	TREE, MALUS RED JEWEL (RED JEWEL CRAB APPLE), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	8	8				
B2005413	TREE, PRUNUS VIRGINIANA SCHUBERT (CANADA RED CHOKECHERRY),1-3/4"CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	9	9				
X0323260	SEDIMENT BASIN	EACH	1	1				
X0325130	TUBULAR TRAFFIC SIGN POST	EACH	34	34				
28000309	TEMPORARY DITCH CHECKS	FOOT	305	305				
X4402020	CONCRETE MEDIAN SURFACE REMOVAL	SQ FT	17,289	17,289				
X4810100	TEMPORARY SHOULDERS	SQ YD	1,183	1,183				
50100100	REMOVAL *OF EXISTING STRUCTURES*	*EACH*	*1*	*1*				
X5610651	ABANDON EXISTING WATER MAIN, FILL WITH CLSM	FOOT	820					820
X6022810	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1					1
X6026622	VALVE VAULTS TO BE REMOVED	EACH	5					5
X6050700	REMOVE INLET BOX	EACH	3	3				
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1				
X8570231	FULL-ACTUATED CONTROLLER AND *TYPE V CABINET*, SPECIAL	EACH	1		1			
X8620200	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1		1			
X8730250	ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED	FOOT	1341			1,341		
X6023242	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE, *SPECIAL*	EACH	2	2				
Z0056635	STORM SEWERS (WATER MAIN REQUIREMENTS) EQUIVALENT ROUND-SIZE 30 *INCH*	FOOT	41	41				
X5630708	CONNECTION TO EXISTING WATER MAIN 8"	EACH	3					3
X5630710	CONNECTION TO EXISTING WATER MAIN 10"	EACH	2					2
X5610110	DUCTILE IRON WATER MAIN FITTING-10" PLUG	EACH	2					2

◐ - DENOTES SPECIALTY ITEMS

△ - 0042 COST CODE

PLAN: DATE | BY | SURVEYED | PLOTTED | DRAWN | CHECKED | ALIGNMENT RECORDED | R.T. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO.

PROFILE: DATE | BY | SURVEYED | PLOTTED | DRAWN | CHECKED | B.M. NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK | NO.

REVISIONS NAME	DATE

Rev.

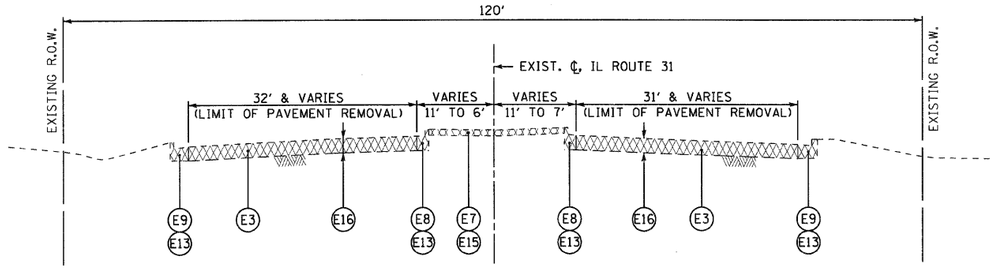
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

SUMMARY OF QUANTITIES

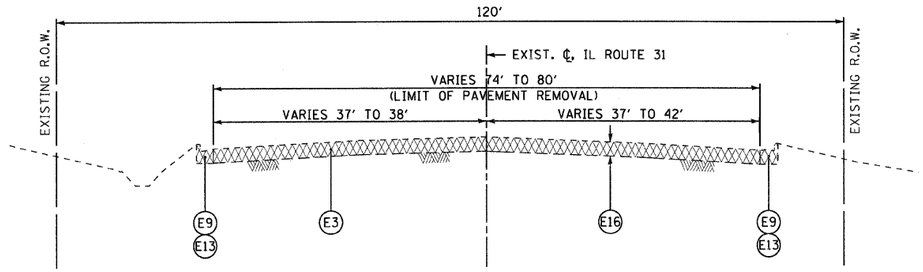
SCALE: NTS
DATE: 02/10/2012
DRAWN BY: BCD
CHECKED BY: BDH

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	11
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

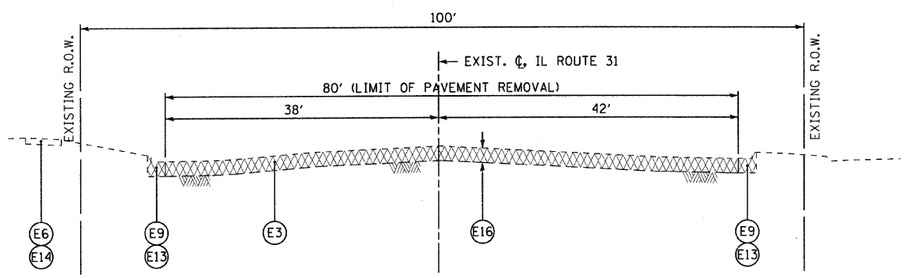
CONTRACT NO. 62537



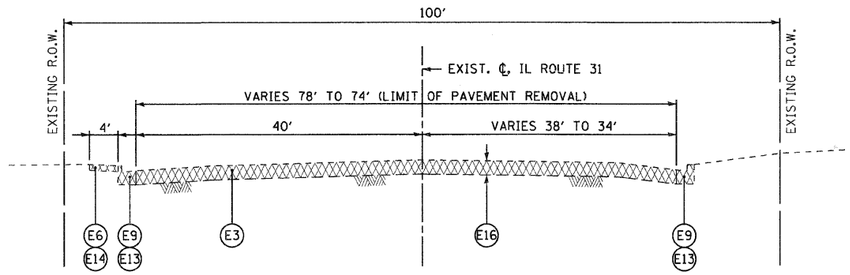
EXISTING TYPICAL SECTION - IL ROUTE 31
STA. 109+17.20 TO STA. 113+22.00



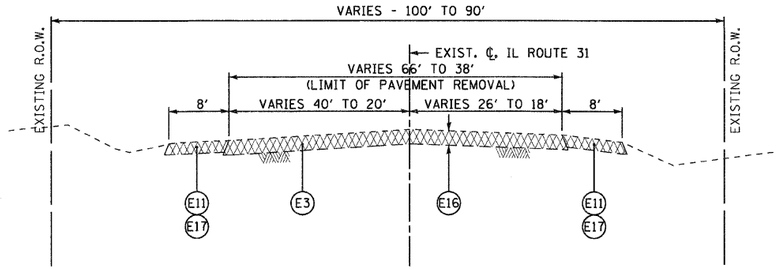
EXISTING TYPICAL SECTION - IL ROUTE 31
STA. 113+22.00 TO STA. 118+35.00



EXISTING TYPICAL SECTION - IL ROUTE 31
STA. 118+35.00 TO STA. 121+83.21



EXISTING TYPICAL SECTION - IL ROUTE 31
STA. 121+83.21 TO STA. 124+67.00



EXISTING TYPICAL SECTION - IL ROUTE 31
STA. 124+67.00 TO STA. 129+63.00

LEGEND

- (E1) EXISTING HOT-MIX ASPHALT PAVEMENT 4" +/-
- (E2) EXISTING HOT-MIX ASPHALT PAVEMENT 6" +/-
- (E3) EXISTING HOT-MIX ASPHALT PAVEMENT 12" +/-
- (E4) EXISTING AGGREGATE BASE COURSE 6" +/-
- (E5) EXISTING AGGREGATE BASE COURSE 8" +/-
- (E6) EXISTING PCC SIDEWALK
- (E7) EXISTING CONCRETE MEDIAN SURFACE 4"
- (E8) EXISTING CONCRETE CURB AND GUTTER, TYPE B-6.12
- (E9) EXISTING CONCRETE CURB AND GUTTER, TYPE B-6.24
- (E10) EXISTING AGGREGATE SHOULDERS, THICKNESS VARIES
- (E11) EXISTING HOT-MIX ASPHALT SHOULDERS 8" AND VARIES
- (E12) HOT-MIX ASPHALT SURFACE REMOVAL, 2"
- (E13) COMBINATION CURB AND GUTTER REMOVAL
- (E14) SIDEWALK REMOVAL (AT LOCATIONS DESIGNATED BY THE ENGINEER)
- (E15) CONCRETE MEDIAN SURFACE REMOVAL
- (E16) PAVEMENT REMOVAL
- (E17) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31 AND IL RTE 176

EXISTING TYPICAL SECTIONS
ILLINOIS ROUTE 31

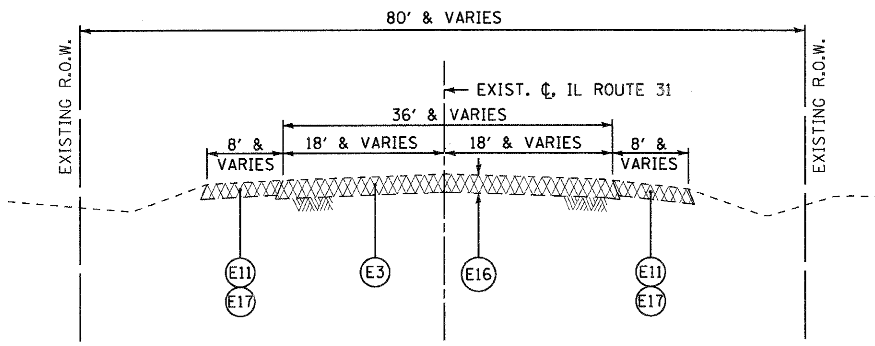
SCALE: NTS
DATE: 02/10/2012
DRAWN BY: BCD
CHECKED BY: BDH

PLAN — SURVEYED, PLOTTED, ALIGNMENTS CHECKED, PLAN QUANTITIES CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, QUANTITIES CHECKED, STRUCTURE NOTATIONS CHKD, NOTE BOOK, NO., BY, DATE

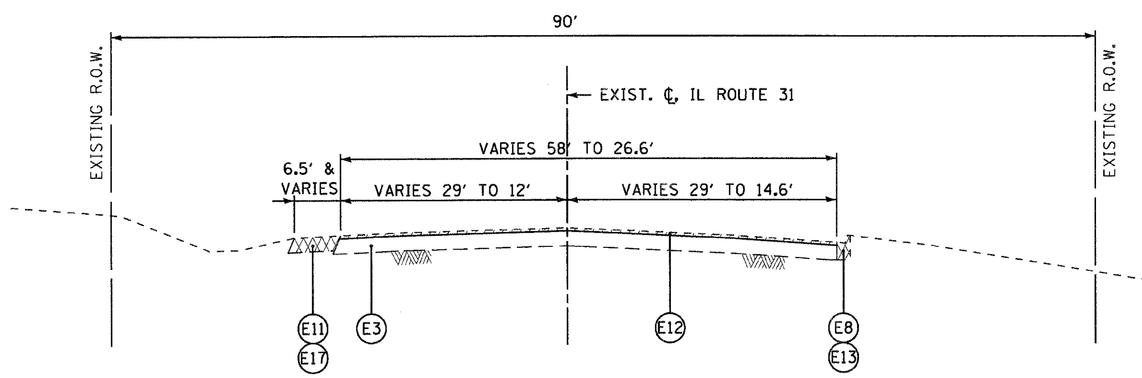
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	12
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537



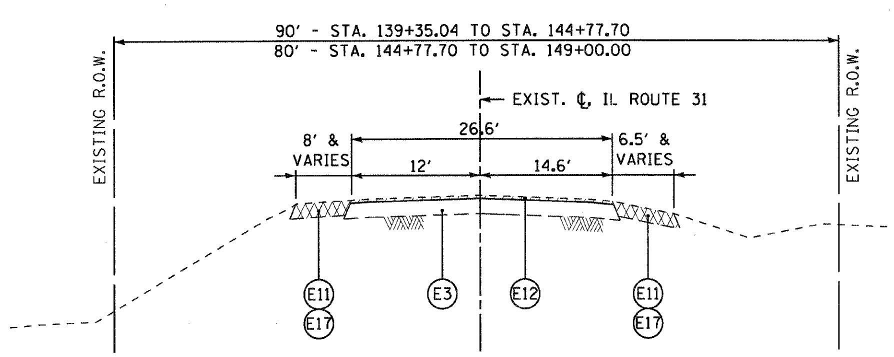
EXISTING TYPICAL SECTION - IL ROUTE 31

STA. 129+63.00 TO STA. 139+35.04



EXISTING TYPICAL SECTION - IL ROUTE 31

STA. 139+35.04 TO STA. 143+18.00



EXISTING TYPICAL SECTION - IL ROUTE 31

STA. 143+18.00 TO STA. 149+00.00

LEGEND

- (E1) EXISTING HOT-MIX ASPHALT PAVEMENT 4" +/-
- (E2) EXISTING HOT-MIX ASPHALT PAVEMENT 6" +/-
- (E3) EXISTING HOT-MIX ASPHALT PAVEMENT 12" +/-
- (E4) EXISTING AGGREGATE BASE COURSE 6" +/-
- (E5) EXISTING AGGREGATE BASE COURSE 8" +/-
- (E6) EXISTING PCC SIDEWALK
- (E7) EXISTING CONCRETE MEDIAN SURFACE 4"
- (E8) EXISTING CONCRETE CURB AND GUTTER, TYPE B-6.12
- (E9) EXISTING CONCRETE CURB AND GUTTER, TYPE B-6.24
- (E10) EXISTING AGGREGATE SHOULDERS, THICKNESS VARIES
- (E11) EXISTING HOT-MIX ASPHALT SHOULDERS 8" AND VARIES
- (E12) HOT-MIX ASPHALT SURFACE REMOVAL, 2"
- (E13) COMBINATION CURB AND GUTTER REMOVAL
- (E14) SIDEWALK REMOVAL (AT LOCATIONS DESIGNATED BY THE ENGINEER)
- (E15) CONCRETE MEDIAN SURFACE REMOVAL
- (E16) PAVEMENT REMOVAL
- (E17) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL

REVISIONS NAME	DATE

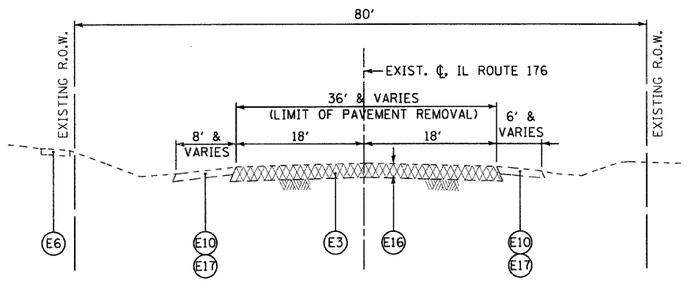
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31 AND IL RTE 176

EXISTING TYPICAL SECTIONS
ILLINOIS ROUTE 31

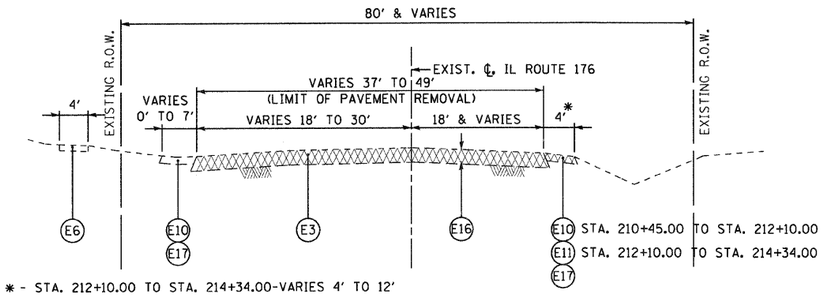
SCALE: NTS
DATE: 02/10/2012
DRAWN BY: BCD
CHECKED BY: BDH

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	13
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

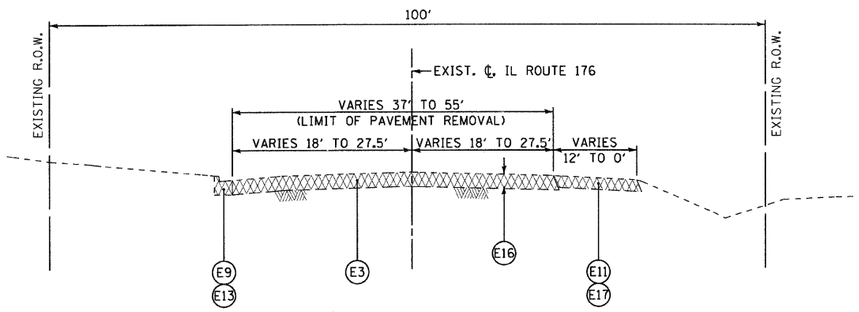


EXISTING TYPICAL SECTION - IL ROUTE 176
STA. 206+10.77 TO STA. 210+45.00

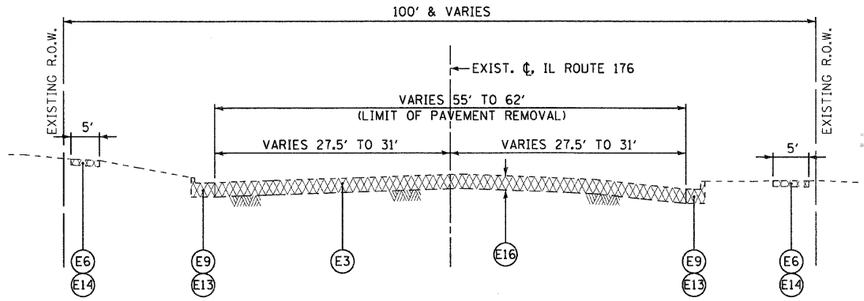


* - STA. 212+10.00 TO STA. 214+34.00-VARIES 4' TO 12'

EXISTING TYPICAL SECTION - IL ROUTE 176
STA. 210+45.00 TO STA. 214+34.00



EXISTING TYPICAL SECTION - IL ROUTE 176
STA. 214+34.00 TO STA. 217+40.00



EXISTING TYPICAL SECTION - IL ROUTE 176
STA. 217+40.00 TO STA. 220+14.83

LEGEND

- (E1) EXISTING HOT-MIX ASPHALT PAVEMENT 4" +/-
- (E2) EXISTING HOT-MIX ASPHALT PAVEMENT 6" +/-
- (E3) EXISTING HOT-MIX ASPHALT PAVEMENT 12" +/-
- (E4) EXISTING AGGREGATE BASE COURSE 6" +/-
- (E5) EXISTING AGGREGATE BASE COURSE 8" +/-
- (E6) EXISTING PCC SIDEWALK
- (E7) EXISTING CONCRETE MEDIAN SURFACE 4"
- (E8) EXISTING CONCRETE CURB AND GUTTER, TYPE B-6.12
- (E9) EXISTING CONCRETE CURB AND GUTTER, TYPE B-6.24
- (E10) EXISTING AGGREGATE SHOULDERS, THICKNESS VARIES
- (E11) EXISTING HOT-MIX ASPHALT SHOULDERS 8" AND VARIES
- (E12) HOT-MIX ASPHALT SURFACE REMOVAL, 2"
- (E13) COMBINATION CURB AND GUTTER REMOVAL
- (E14) SIDEWALK REMOVAL (AT LOCATIONS DESIGNATED BY THE ENGINEER)
- (E15) CONCRETE MEDIAN SURFACE REMOVAL
- (E16) PAVEMENT REMOVAL
- (E17) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, ALIGNMENT RECORDED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, GRADES RECORDED, STRUCTURE NO'S CHKD, NOTE BOOK, NO., BY, DATE

REVISIONS NAME	DATE

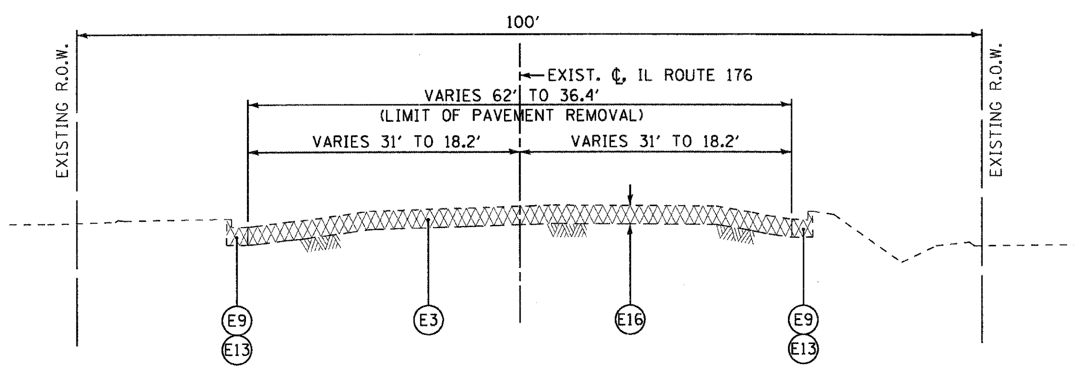
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31 AND IL RTE 176

EXISTING TYPICAL SECTIONS
ILLINOIS ROUTE 176

SCALE: NTS
DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: BDH

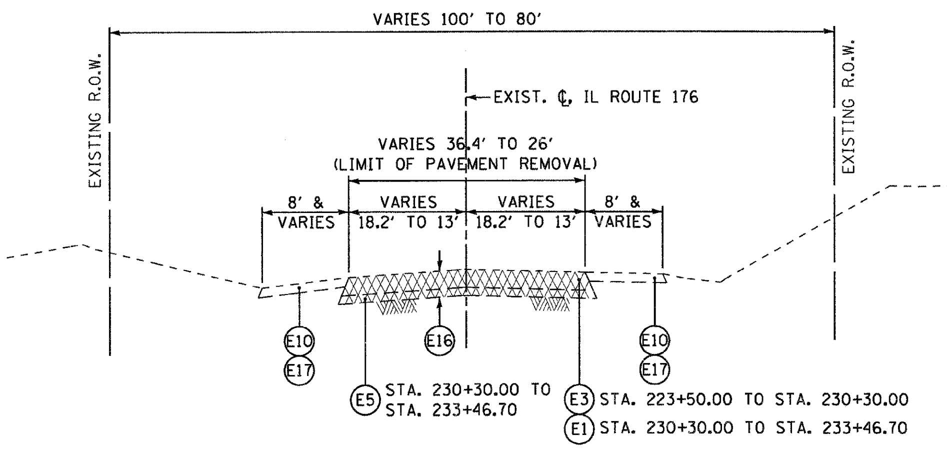
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	14
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537



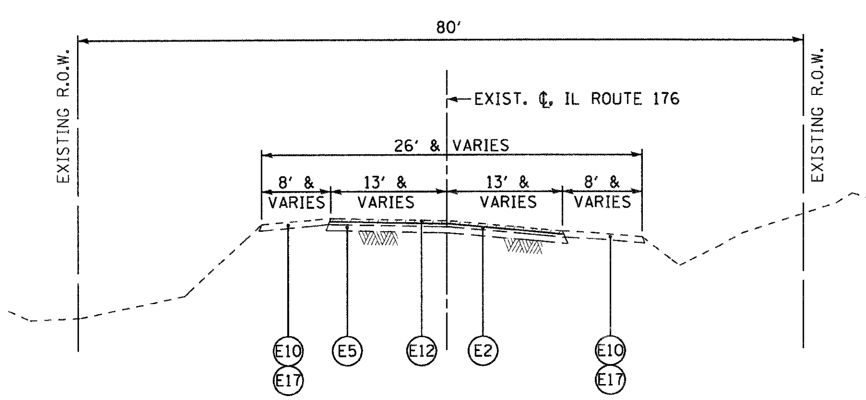
EXISTING TYPICAL SECTION - IL ROUTE 176

STA. 220+14.83 TO STA. 223+50.00



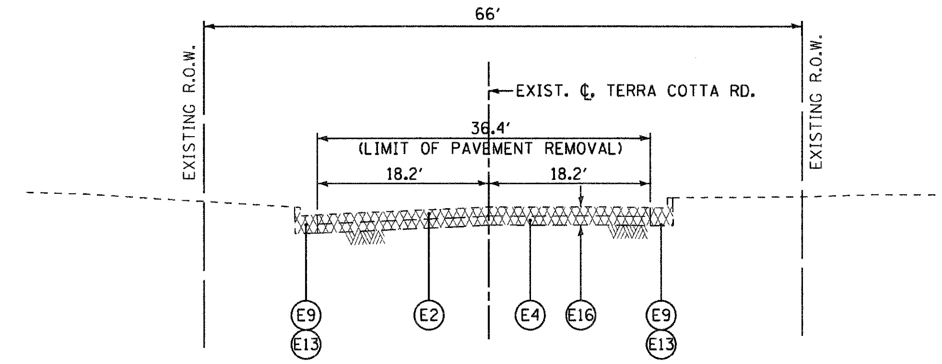
EXISTING TYPICAL SECTION - IL ROUTE 176

STA. 223+50.00 TO STA. 233+46.70



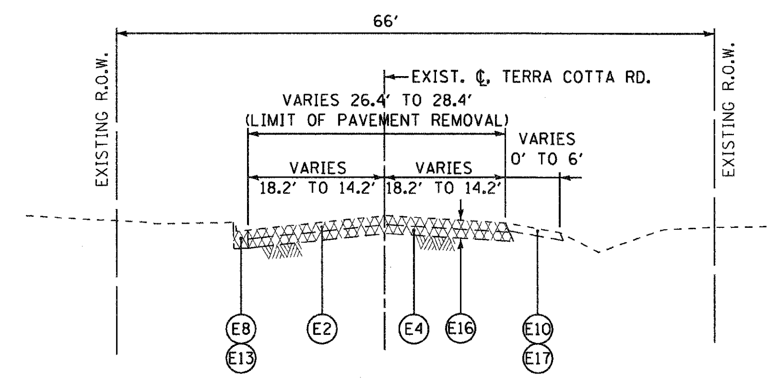
EXISTING TYPICAL SECTION - IL ROUTE 176

STA. 233+46.70 TO STA. 241+27.78



EXISTING TYPICAL SECTION - TERRA COTTA AVENUE

STA. 300+00.00 TO STA. 303+59.00



EXISTING TYPICAL SECTION - TERRA COTTA AVENUE

STA. 303+59.00 TO STA. 305+00.00

LEGEND

- E1 EXISTING HOT-MIX ASPHALT PAVEMENT 4" +/-
- E2 EXISTING HOT-MIX ASPHALT PAVEMENT 6" +/-
- E3 EXISTING HOT-MIX ASPHALT PAVEMENT 12" +/-
- E4 EXISTING AGGREGATE BASE COURSE 6" +/-
- E5 EXISTING AGGREGATE BASE COURSE 8" +/-
- E6 EXISTING PCC SIDEWALK
- E7 EXISTING CONCRETE MEDIAN SURFACE 4"
- E8 EXISTING CONCRETE CURB AND GUTTER, TYPE B-6.12
- E9 EXISTING CONCRETE CURB AND GUTTER, TYPE B-6.24
- E10 EXISTING AGGREGATE SHOULDERS, THICKNESS VARIES
- E11 EXISTING HOT-MIX ASPHALT SHOULDERS 8" AND VARIES
- E12 HOT-MIX ASPHALT SURFACE REMOVAL, 2"
- E13 COMBINATION CURB AND GUTTER REMOVAL
- E14 SIDEWALK REMOVAL (AT LOCATIONS DESIGNATED BY THE ENGINEER)
- E15 CONCRETE MEDIAN SURFACE REMOVAL
- E16 PAVEMENT REMOVAL
- E17 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL

REVISIONS	
NAME	DATE

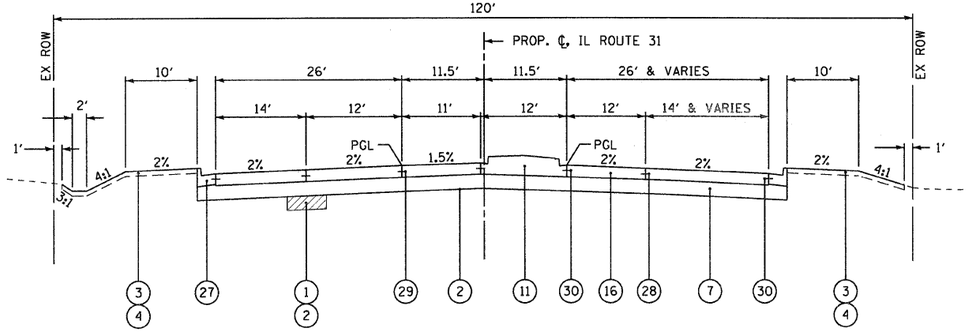
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31 AND IL RTE 176

EXISTING TYPICAL SECTIONS
ILLINOIS ROUTE 176 & TERRA COTTA AVE.

SCALE: NTS
DATE: 02/10/2012
DRAWN BY: BCD
CHECKED BY: BDH

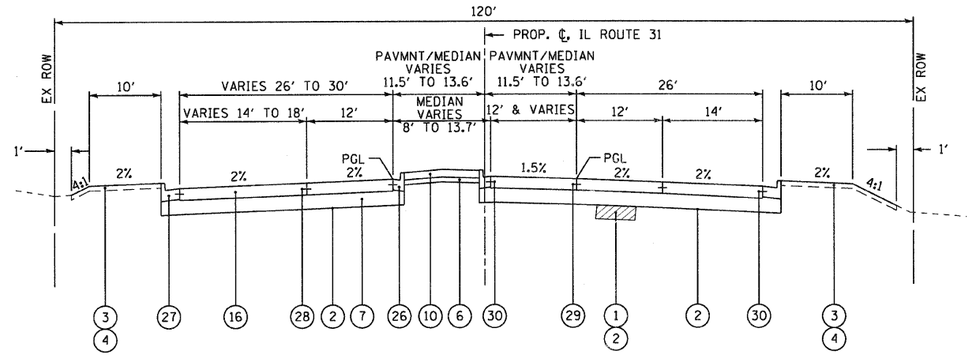
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	15
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537



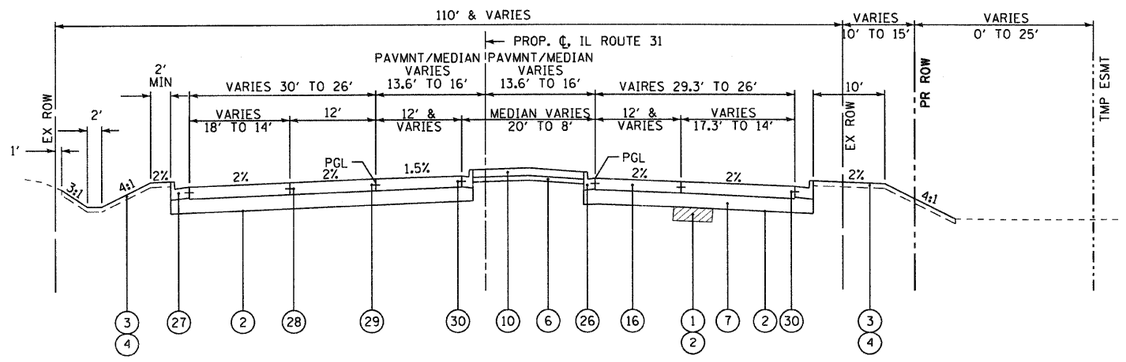
PROPOSED TYPICAL SECTION - IL ROUTE 31

STA. 109+17.20 TO STA. 111+59.72



PROPOSED TYPICAL SECTION - IL ROUTE 31

STA. 111+59.72 TO STA. 114+30.00



PROPOSED TYPICAL SECTION - IL ROUTE 31

STA. 114+30.00 TO STA. 117+76.74

LEGEND

1. POROUS GRANULAR EMBANKMENT, SUBGRADE (AT LOCATIONS SPECIFIED PER THE SOILS NOTE ON SHEET 15 OR AT LOCATIONS DESIGNATED BY THE ENGINEER) (EXCAVATION PAID FOR PER APPLICABLE EARTHWORK PAY ITEM)
2. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (AT LOCATIONS SPECIFIED PER THE SOILS NOTE ON SHEET 15 OR AT LOCATIONS DESIGNATED BY THE ENGINEER)
3. TOPSOIL FURNISH AND PLACE, 4"
4. SEEDING OR SODDING, SALT TOLERANT (SEE LANDSCAPING PLANS)
5. SUB-BASE GRANULAR MATERIAL, TYPE B 2" (COST INCLUDED IN P.C.C. SIDEWALK 5")
6. SUB-BASE GRANULAR MATERIAL, TYPE B 4"
7. AGGREGATE SUBGRADE IMPROVEMENT, 12"
8. AGGREGATE SHOULDERS, TYPE B, 8"
9. SUB-BASE GRANULAR MATERIAL, TYPE C (COST INCLUDED IN AGGREGATE SUBGRADE IMPROVEMENT, 12")
10. CONCRETE MEDIAN SURFACE 4"
11. CONCRETE MEDIAN, TYPE SB-6.12
12. STABILIZED MEDIAN (HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50, 2") (HOT-MIX ASPHALT BASE COURSE, 8")
13. NOT USED
14. CLASS D PATCHES, 4" (AT LOCATIONS DESIGNATED BY THE ENGINEER)
15. CLASS D PATCHES, 10" (AT LOCATIONS DESIGNATED BY THE ENGINEER)
16. PORTLAND CEMENT CONCRETE PAVEMENT 9 ¾" (JOINTED)
17. HOT-MIX ASPHALT BASE COURSE WIDENING, 9 ½" (IN THREE LIFTS)
18. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 ½"
19. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 ¾ "
20. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 ¼"
21. LEVELING BINDER (MACHINE METHOD), N70, VARIABLE DEPTH (2 ¼" MAXIMUM THICKNESS)
22. POLYMERIZED LEVELING BINDER (MACHINE METHOD, IL-4.75, N50, ¾"
23. HOT-MIX ASPHALT SHOULDERS, 8"
24. PORTLAND CEMENT CONCRETE SIDEWALK, 5"
25. COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12
26. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
27. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
28. SAWED LONGITUDINAL JOINT WITH 30" LONG DEFORMED EPOXY-COATED NO. 6 TIE BARS @ 30" CTS.
29. LONGITUDINAL CONSTRUCTION JOINT WITH 24" LONG GROUTED IN PLACE DEFORMED EPOXY-COATED NO. 8 TIE BARS @ 24" CTS.
30. 24" LONG DEFORMED EPOXY-COATED NO. 6 TIE BARS @ 24" CTS. GROUTED IN PLACE
31. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 ¼"
32. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, VARIABLE DEPTH (2 ¼" MINIMUM THICKNESS)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @Ndes
TERRA COTTA AVENUE	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1½" (IL-9.5mm)	4% @ 50 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19, N50, 2¼"	4% @ 50 Gyr.
PAVEMENT RESURFACING/WIDENING	
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1¾" (IL-9.5mm)	4% @ 90 Gyr.
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2½" & VARIABLE DEPTH	4% @ 90 Gyr.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, ¾"	3.5% @ 50 Gyr.
LEVELING BINDER (MACHINE METHOD) N70, VARIABLE DEPTH (IL-9.5mm)	4% @ 70 Gyr.
HOT-MIX ASPHALT BASE COURSE WIDENING, 9½" (HMA BINDER IL-19mm) (3 LIFTS)	4% @ 90 Gyr.
DRIVEWAYS	
HOT-MIX ASPHALT BASE COURSE, 6" & 8" (2 LIFTS)	4% @ 50 Gyr.
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2" (IL-9.5mm)	4% @ 50 Gyr.
PATCHING	
CLASS D PATCHES, 4" (2 LIFTS) & 10" (3 LIFTS) (HMA BINDER IL-19mm)	4% @ 70 Gyr.
SHOULDERS	
HOT-MIX ASPHALT SHOULDERS, 8" (HMA BINDER IL-19mm) (2 LIFTS)	4% @ 50 Gyr.
MEDIAN	
HOT-MIX ASPHALT BASE COURSE, 8" (2 LIFTS)	4% @ 50 Gyr.
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2" (IL-9.5mm)	4% @ 50 Gyr.
TEMPORARY PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2" (IL-9.5mm)	4% @ 50 Gyr.
HOT-MIX ASPHALT BASE COURSE, 10" (HMA BINDER IL-19mm) (3 LIFTS)	4% @ 50 Gyr.
TEMPORARY RAMPS	
LEVELING BINDER (HAND METHOD), N50 (IL-9.5mm)	4% @ 50 Gyr.

NOTES:

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 76-22" 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) MILLING SHALL BE DONE PRIOR TO PATCHING

STRUCTURAL DESIGN TRAFFIC: Year 2019

PV = 31,685 SU = 1,491 MU = 1,491

ROAD/STREET CLASSIFICATION: Class 1

PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:

P = 32 S = 45 MU = 45

TRAFFIC FACTOR: Actual TF = 11.30 AC Type = N/A

Minimum TF = 6.03

AC GRADE Binder = PG 64-22 Surface = PG 64-22

SUBGRADE SUPPORT RATING:

SSR = POOR (Sta._____ to Sta. _____)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31 AND IL RTE 176

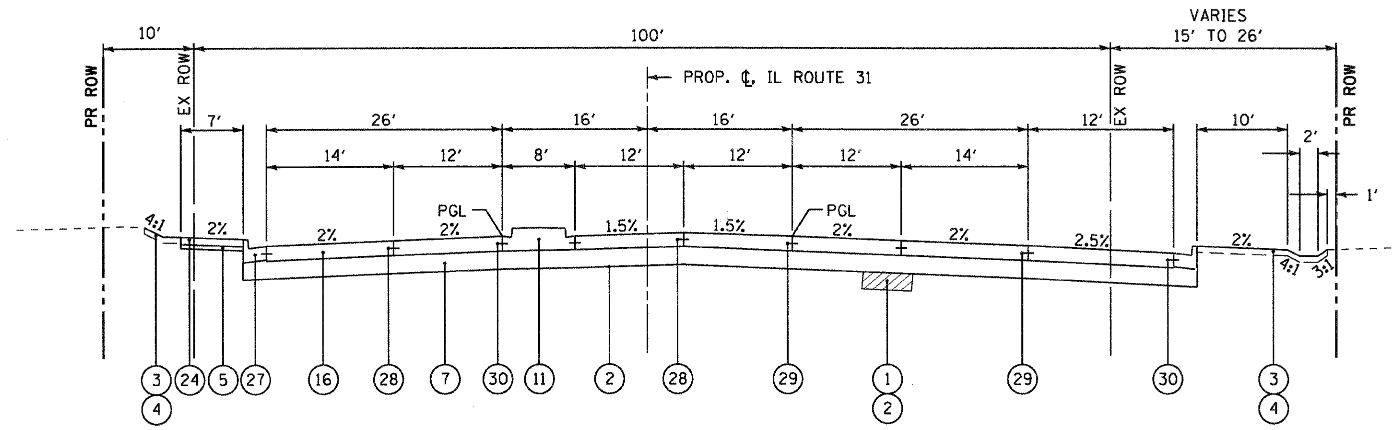
PROPOSED TYPICAL SECTIONS
ILLINOIS ROUTE 31

SCALE: NTS DRAWN BY: SMP

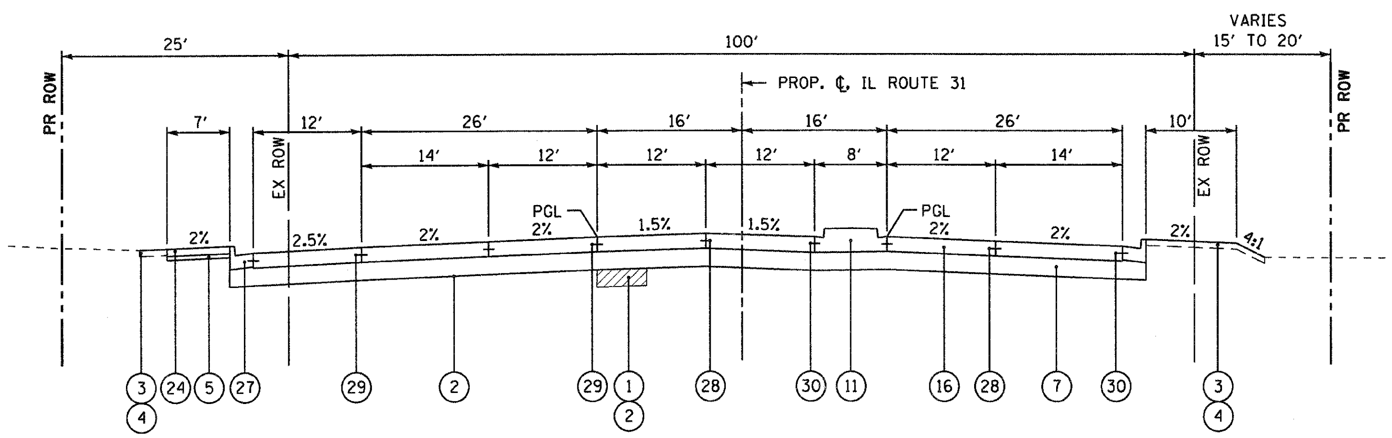
DATE: 02/10/2012 CHECKED BY: BDH

PLAN / PROFILE
SURVEYED
PLOTTED
ALIGNMENT CHECKED
PROFILE CHECKED
NOTE BOOK
NO.
BY
DATE
STRUCTURE NOTATIONS GIVEN
CADD FILE NAME

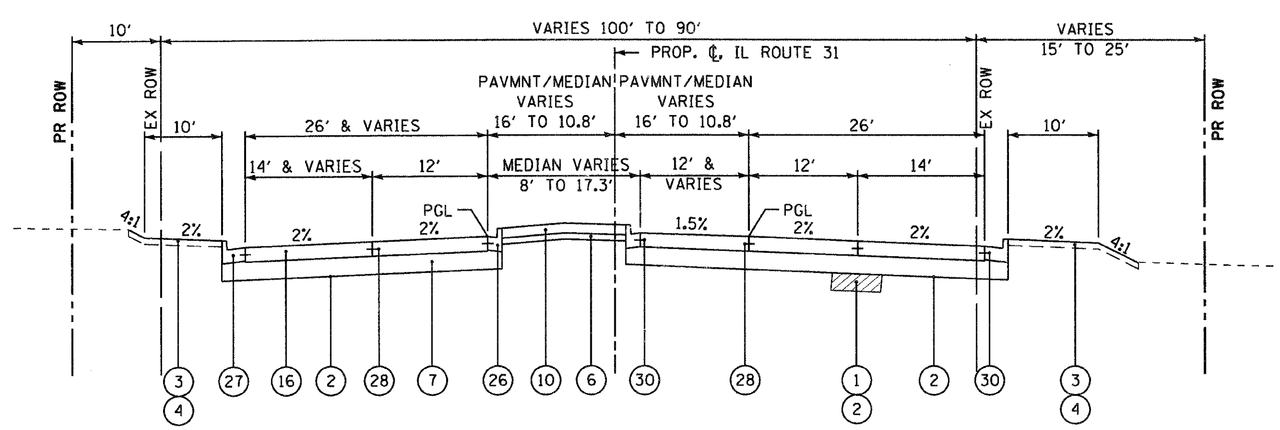
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	16
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62537				



PROPOSED TYPICAL SECTION - IL ROUTE 31
STA. 117+76.74 TO STA. 121+83.21



PROPOSED TYPICAL SECTION - IL ROUTE 31
STA. 121+83.21 TO STA. 125+95.28



PROPOSED TYPICAL SECTION - IL ROUTE 31
STA. 125+95.28 TO STA. 129+37.79

LEGEND

1. POROUS GRANULAR EMBANKMENT, SUBGRADE (AT LOCATIONS SPECIFIED PER THE SOILS NOTE ON SHEET 15 OR AT LOCATIONS DESIGNATED BY THE ENGINEER) (EXCAVATION PAID FOR PER APPLICABLE EARTHWORK PAY ITEM)
2. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (AT LOCATIONS SPECIFIED PER THE SOILS NOTE ON SHEET 15 OR AT LOCATIONS DESIGNATED BY THE ENGINEER)
3. TOPSOIL FURNISH AND PLACE, 4"
4. SEEDING OR SODDING, SALT TOLERANT (SEE LANDSCAPING PLANS)
5. SUB-BASE GRANULAR MATERIAL, TYPE B 2" (COST INCLUDED IN P.C.C. SIDEWALK 5")
6. SUB-BASE GRANULAR MATERIAL, TYPE B 4"
7. AGGREGATE SUBGRADE IMPROVEMENT, 12"
8. AGGREGATE SHOULDERS, TYPE B, 8"
9. SUB-BASE GRANULAR MATERIAL, TYPE C (COST INCLUDED IN AGGREGATE SUBGRADE IMPROVEMENT, 12")
10. CONCRETE MEDIAN SURFACE 4"
11. CONCRETE MEDIAN, TYPE SB-6.12
12. STABILIZED MEDIAN (HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50, 2") (HOT-MIX ASPHALT BASE COURSE, 8")
13. NOT USED
14. CLASS D PATCHES, 4" (AT LOCATIONS DESIGNATED BY THE ENGINEER)
15. CLASS D PATCHES, 10" (AT LOCATIONS DESIGNATED BY THE ENGINEER)
16. PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)
17. HOT-MIX ASPHALT BASE COURSE WIDENING, 9 1/2" (IN THREE LIFTS)
18. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"
19. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4 "
20. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/4"
21. LEVELING BINDER (MACHINE METHOD), N70, VARIABLE DEPTH (2 1/4" MAXIMUM THICKNESS)
22. POLYMERIZED LEVELING BINDER (MACHINE METHOD, IL-4.75, N50, 3/4"
23. HOT-MIX ASPHALT SHOULDERS, 8"
24. PORTLAND CEMENT CONCRETE SIDEWALK, 5"
25. COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12
26. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
27. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
28. SAWED LONGITUDINAL JOINT WITH 30" LONG DEFORMED EPOXY-COATED NO. 6 TIE BARS @ 30" CTS.
29. LONGITUDINAL CONSTRUCTION JOINT WITH 24" LONG GROUTED IN PLACE DEFORMED EPOXY-COATED NO. 8 TIE BARS @ 24" CTS.
30. 24" LONG DEFORMED EPOXY-COATED NO. 6 TIE BARS @ 24" CTS. GROUTED IN PLACE
31. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
32. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, VARIABLE DEPTH (2 1/4" MINIMUM THICKNESS)

SOILS NOTE:

POROUS GRANULAR EMBANKMENT SUBGRADE (PGES) HAS BEEN PROVIDED AT THE LOCATIONS INDICATED FOR SOILS WHICH TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGE WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER (BY USE OF A CONE PENETROMETER IN CONJUNCTION WITH THE IDOT SUBGRADE MANUAL). IF UNSTABLE SOILS ARE ENCOUNTERED THE SOILS SHALL BE REMOVED AND REPLACED WITH PGE. IF UNSTABLE SOIL IS NOT ENCOUNTERED, THEN THE QUANTITY WILL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE THE CONTRACTOR.

THE LIMITS OF UNSTABLE SOILS ARE AT THE APPROXIMATE LOCATIONS AS FOLLOWS:

STA. TO STA.	ESTIMATED UNDERCUT DEPTH	ESTIMATED UNDERCUT
IL ROUTE 31:		
109+17 TO 113+00	6"	580 CU YD
129+50 TO 132+50	-	- GEOTECHNICAL FABRIC TO BE PROVIDED (1,678 SQ YD)
135+00 TO 137+75	6"	374 CU YD
137+75 TO 139+35	6"	306 CU YD WITH GEOTECHNICAL FABRIC (1,833 SQ YD)
IL ROUTE 176:		
235+00 TO 237+50	12"	369 CU YD
TERRA COTTA AVE.:		
-	-	-

REVISIONS NAME	DATE

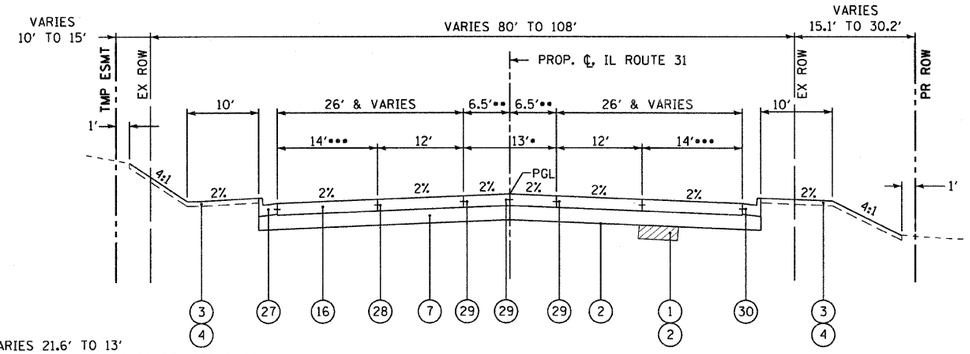
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31 AND IL RTE 176

PROPOSED TYPICAL SECTIONS
ILLINOIS ROUTE 31

SCALE: NTS
DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: BDH

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	17
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

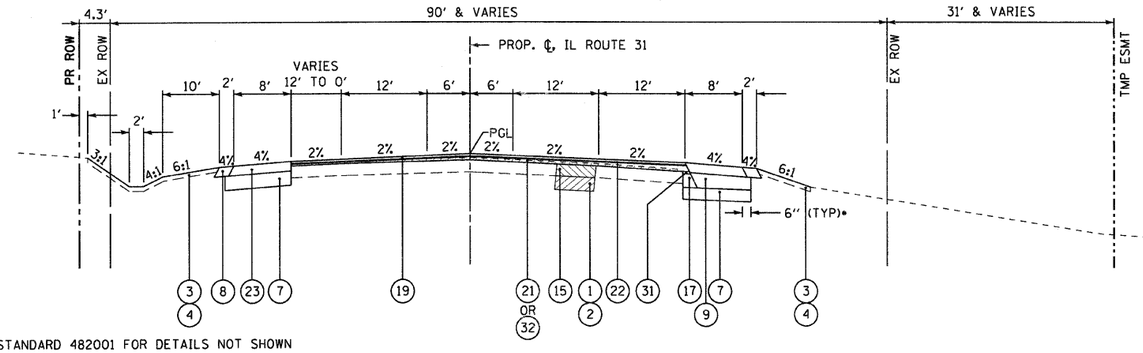
CONTRACT NO. 62537



•VARIES 21.6' TO 13'
FROM STA 129+37.79 TO STA 130+90.16
OR 12' FROM STA 138+94.00 TO STA 139+35.00
••VARIES 10.8' TO 6.5'
FROM STA 129+37.79 TO STA 130+90.16
OR 12' FROM STA 138+94.00 TO STA 139+35.00
•••12' FROM STA 138+94.00 TO STA 139+35.00

PROPOSED TYPICAL SECTION - IL ROUTE 31

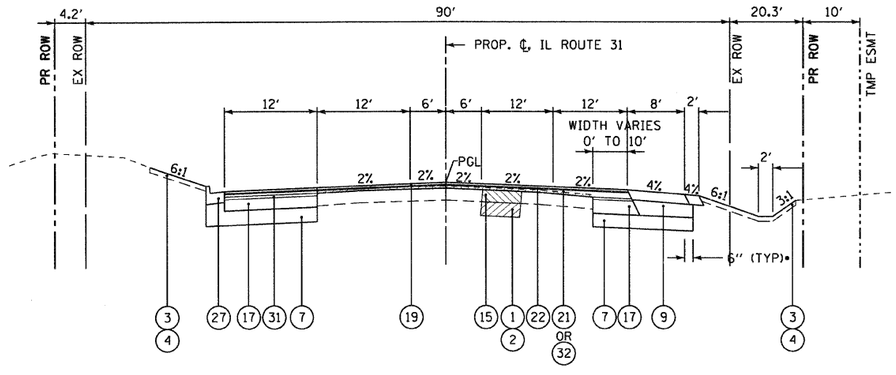
STA. 129+37.79 TO STA. 139+35.00



•SEE STANDARD 482001 FOR DETAILS NOT SHOWN

PROPOSED TYPICAL SECTION - IL ROUTE 31

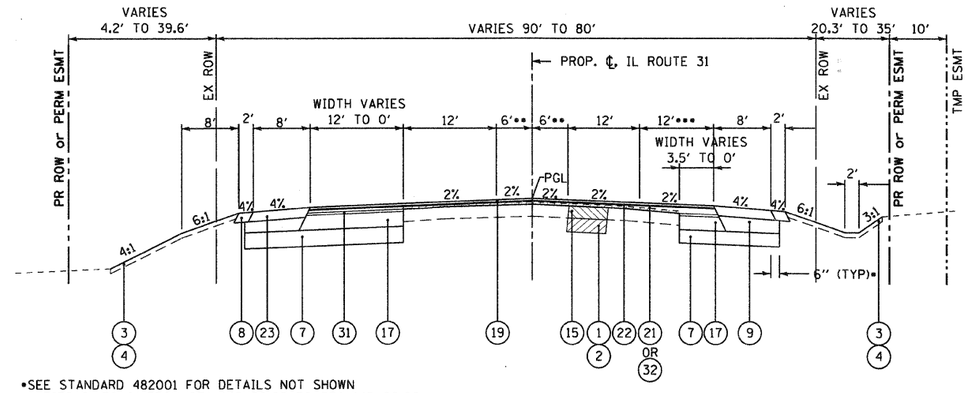
STA. 139+35.00 TO STA. 140+91.04



•SEE STANDARD 482001 FOR DETAILS NOT SHOWN

PROPOSED TYPICAL SECTION - IL ROUTE 31

STA. 140+91.04 TO STA. 144+24.00



•SEE STANDARD 482001 FOR DETAILS NOT SHOWN
••VARIES 6' TO 0' FROM STA 146+30.09 TO STA 149+00.00
•••VARIES 12' TO 0' FROM STA 146+30.09 TO STA 149+00.00

PROPOSED TYPICAL SECTION - IL ROUTE 31

STA. 144+24.00 TO STA. 149+00.00

LEGEND

1. POROUS GRANULAR EMBANKMENT, SUBGRADE (AT LOCATIONS SPECIFIED PER THE SOILS NOTE ON SHEET 15 OR AT LOCATIONS DESIGNATED BY THE ENGINEER) (EXCAVATION PAID FOR PER APPLICABLE EARTHWORK PAY ITEM)
2. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (AT LOCATIONS SPECIFIED PER THE SOILS NOTE ON SHEET 15 OR AT LOCATIONS DESIGNATED BY THE ENGINEER)
3. TOPSOIL FURNISH AND PLACE, 4"
4. SEEDING OR SODDING, SALT TOLERANT (SEE LANDSCAPING PLANS)
5. SUB-BASE GRANULAR MATERIAL, TYPE B 2" (COST INCLUDED IN P.C.C. SIDEWALK 5")
6. SUB-BASE GRANULAR MATERIAL, TYPE B 4"
7. AGGREGATE SUBGRADE IMPROVEMENT, 12"
8. AGGREGATE SHOULDERS, TYPE B, 8"
9. SUB-BASE GRANULAR MATERIAL, TYPE C (COST INCLUDED IN AGGREGATE SUBGRADE IMPROVEMENT, 12")
10. CONCRETE MEDIAN SURFACE 4"
11. CONCRETE MEDIAN, TYPE SB-6.12
12. STABILIZED MEDIAN (HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50, 2") (HOT-MIX ASPHALT BASE COURSE, 8")
13. NOT USED
14. CLASS D PATCHES, 4" (AT LOCATIONS DESIGNATED BY THE ENGINEER)
15. CLASS D PATCHES, 10" (AT LOCATIONS DESIGNATED BY THE ENGINEER)
16. PORTLAND CEMENT CONCRETE PAVEMENT 9 ¾" (JOINTED)
17. HOT-MIX ASPHALT BASE COURSE WIDENING, 9 ½" (IN THREE LIFTS)
18. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 ½"
19. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 ¾ "
20. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 ¼"
21. LEVELING BINDER (MACHINE METHOD), N70, VARIABLE DEPTH (2 ¼" MAXIMUM THICKNESS)
22. POLYMERIZED LEVELING BINDER (MACHINE METHOD, IL-4.75, N50, ¾")
23. HOT-MIX ASPHALT SHOULDERS, 8"
24. PORTLAND CEMENT CONCRETE SIDEWALK, 5"
25. COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12
26. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
27. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
28. SAWED LONGITUDINAL JOINT WITH 30" LONG DEFORMED EPOXY-COATED NO. 6 TIE BARS @ 30" CTS.
29. LONGITUDINAL CONSTRUCTION JOINT WITH 24" LONG GROUTED IN PLACE DEFORMED EPOXY-COATED NO. 8 TIE BARS @ 24" CTS.
30. 24" LONG DEFORMED EPOXY-COATED NO. 6 TIE BARS @ 24" CTS. GROUTED IN PLACE
31. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 ¼"
32. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, VARIABLE DEPTH (2 ¼" MINIMUM THICKNESS)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31 AND IL RTE 176

PROPOSED TYPICAL SECTIONS
ILLINOIS ROUTE 31

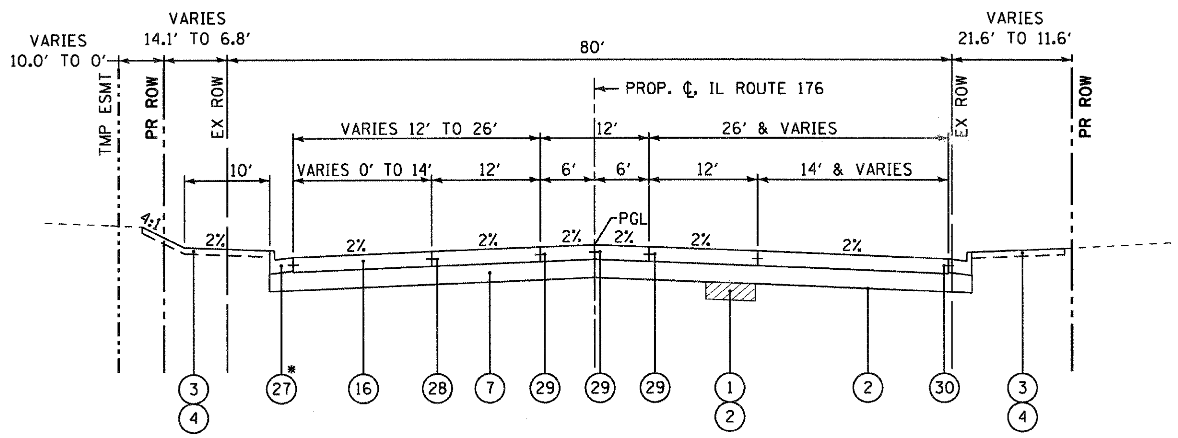
SCALE: NTS
DRAWN BY: SMP
DATE: 02/10/2012
CHECKED BY: BDH

PLAN — SURVEYED, PLOTTED, GRADES CHECKED, ALIGNMENT CHECKED, CADD FILE NAME, NOTE BOOK, NO. ____, DATE, BY

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, ALIGNMENT CHECKED, STRUCTURE NO(TA)TIONS CHKD, NOTE BOOK, NO. ____, DATE, BY

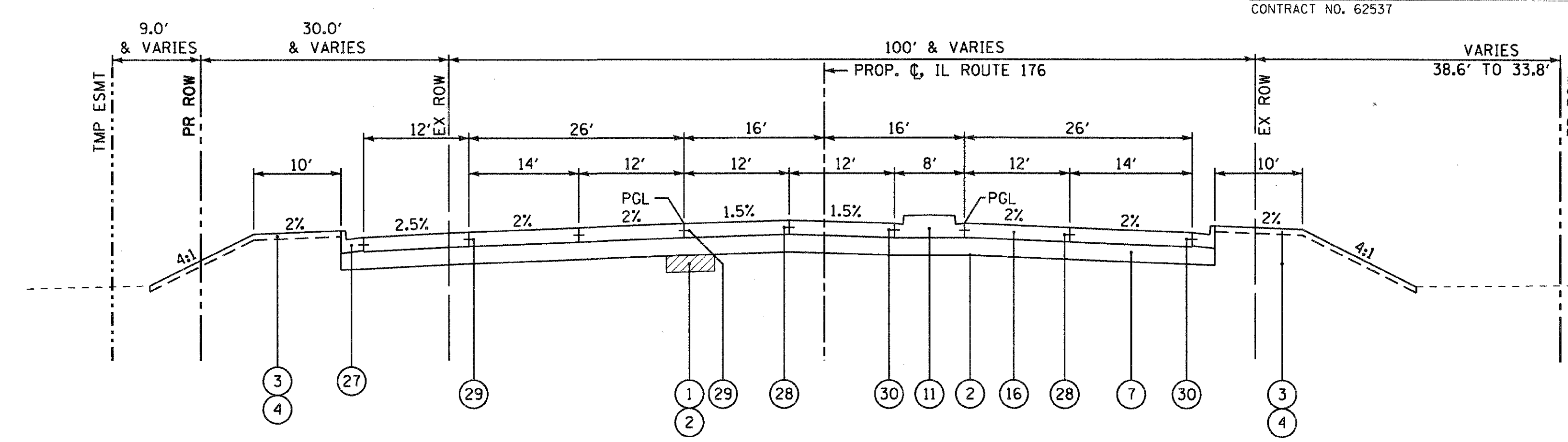
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	18
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

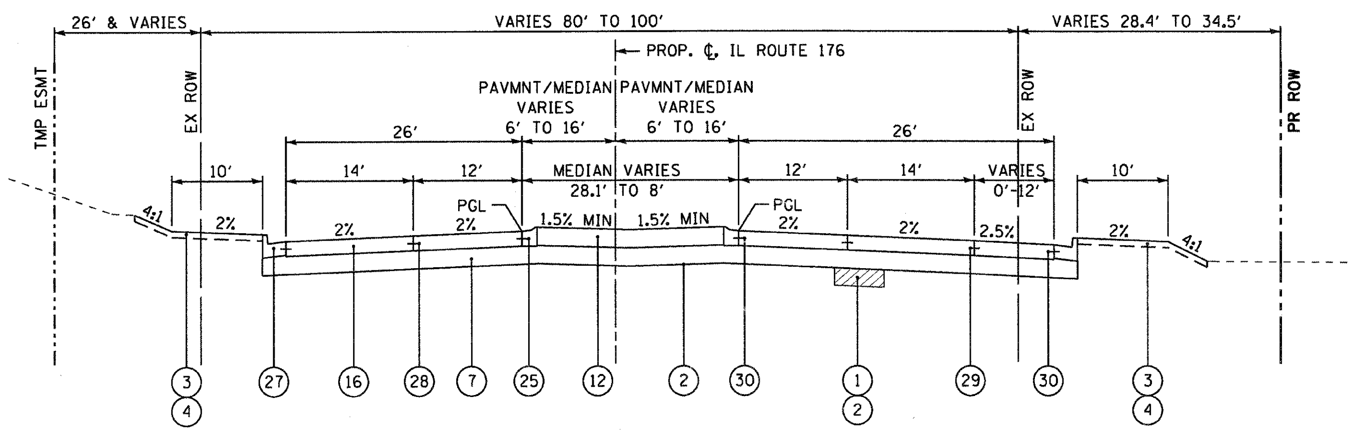


*DEPRESSED CURB FOR GUARDRAIL FROM STA. 206+10.77 TO STA. 206+60.00

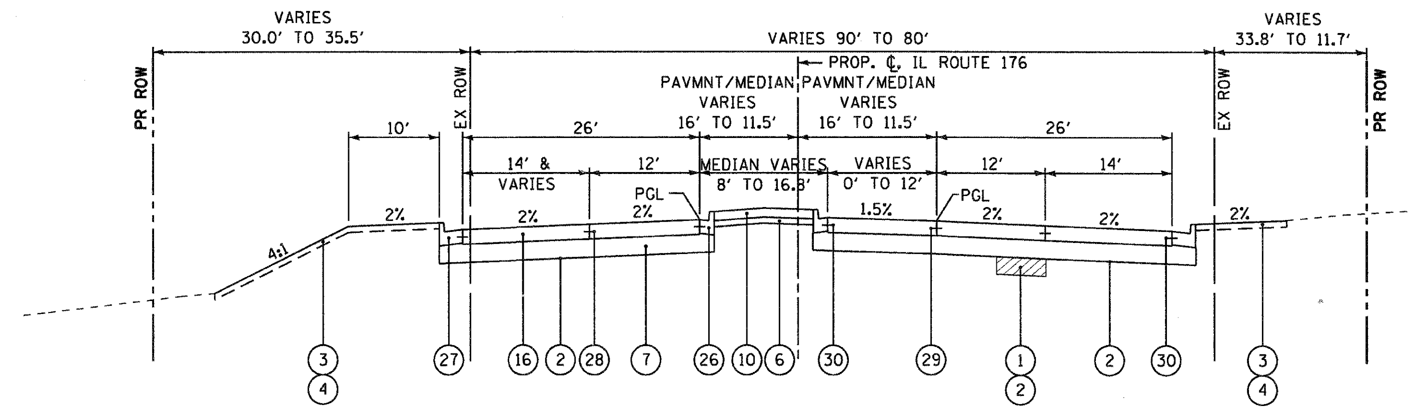
PROPOSED TYPICAL SECTION - IL ROUTE 176
STA. 206+10.77 TO STA. 213+07.00



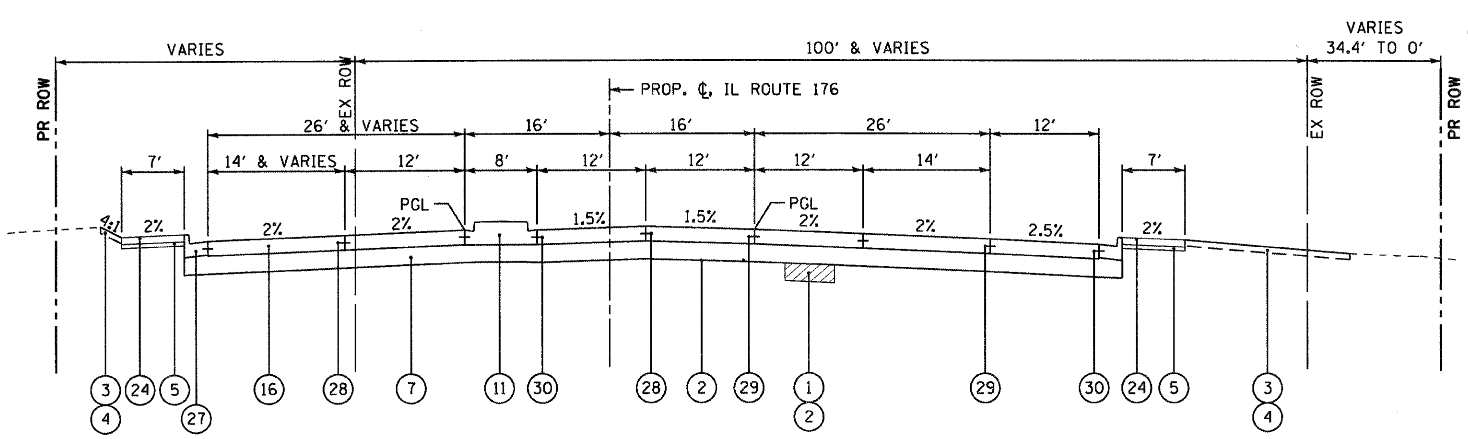
PROPOSED TYPICAL SECTION - IL ROUTE 176
STA. 220+14.83 TO STA. 224+35.87



PROPOSED TYPICAL SECTION - IL ROUTE 176
STA. 213+07.00 TO STA. 216+55.80



PROPOSED TYPICAL SECTION - IL ROUTE 176
STA. 224+35.87 TO STA. 227+31.96



PROPOSED TYPICAL SECTION - IL ROUTE 176
STA. 216+55.80 TO STA. 220+14.83

LEGEND

1. POROUS GRANULAR EMBANKMENT, SUBGRADE (AT LOCATIONS SPECIFIED PER THE SOILS NOTE ON SHEET 15 OR AT LOCATIONS DESIGNATED BY THE ENGINEER) (EXCAVATION PAID FOR PER APPLICABLE EARTHWORK PAY ITEM)
2. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (AT LOCATIONS SPECIFIED PER THE SOILS NOTE ON SHEET 15 OR AT LOCATIONS DESIGNATED BY THE ENGINEER)
3. TOPSOIL FURNISH AND PLACE, 4"
4. SEEDING OR SODDING, SALT TOLERANT (SEE LANDSCAPING PLANS)
5. SUB-BASE GRANULAR MATERIAL, TYPE B 2" (COST INCLUDED IN P.C.C. SIDEWALK 5")
6. SUB-BASE GRANULAR MATERIAL, TYPE B 4"
7. AGGREGATE SUBGRADE IMPROVEMENT, 12"
8. AGGREGATE SHOULDERS, TYPE B, 8"
9. SUB-BASE GRANULAR MATERIAL, TYPE C (COST INCLUDED IN AGGREGATE SUBGRADE IMPROVEMENT, 12")
10. CONCRETE MEDIAN SURFACE 4"
11. CONCRETE MEDIAN, TYPE SB-6.12
12. STABILIZED MEDIAN (HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50, 2") (HOT-MIX ASPHALT BASE COURSE, 8")
13. NOT USED
14. CLASS D PATCHES, 4" (AT LOCATIONS DESIGNATED BY THE ENGINEER)
15. CLASS D PATCHES, 10" (AT LOCATIONS DESIGNATED BY THE ENGINEER)
16. PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)
17. HOT-MIX ASPHALT BASE COURSE WIDENING, 9 1/2" (IN THREE LIFTS)
18. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"
19. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
20. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/4"
21. LEVELING BINDER (MACHINE METHOD), N70, VARIABLE DEPTH (2 1/4" MAXIMUM THICKNESS)
22. POLYMERIZED LEVELING BINDER (MACHINE METHOD, IL-4.75, N50, 3/4"
23. HOT-MIX ASPHALT SHOULDERS, 8"
24. PORTLAND CEMENT CONCRETE SIDEWALK, 5"
25. COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12
26. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
27. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
28. SAWED LONGITUDINAL JOINT WITH 30" LONG DEFORMED EPOXY-COATED NO. 6 TIE BARS @ 30" CTS.
29. LONGITUDINAL CONSTRUCTION JOINT WITH 24" LONG GROUTED IN PLACE DEFORMED EPOXY-COATED NO. 8 TIE BARS @ 24" CTS.
30. 24" LONG DEFORMED EPOXY-COATED NO. 6 TIE BARS @ 24" CTS. GROUTED IN PLACE
31. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
32. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, VARIABLE DEPTH (2 1/4" MINIMUM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31 AND IL RTE 176

PROPOSED TYPICAL SECTIONS
ILLINOIS ROUTE 176

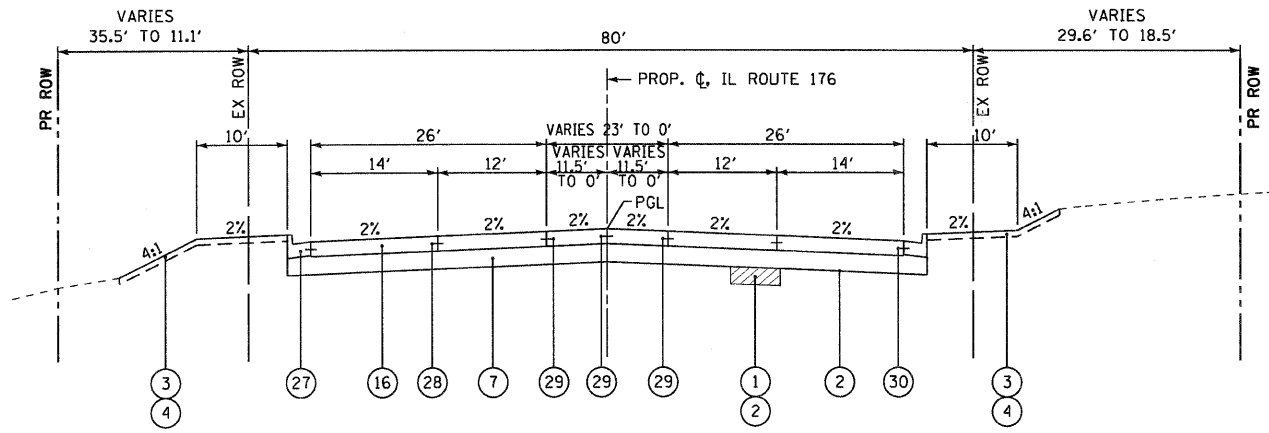
SCALE: NTS
DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: BDH

PLAN — NOTE BOOK NO. — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CARD FILE NAME — BY — DATE

PROFILE — NOTE BOOK NO. — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHKD — BY — DATE

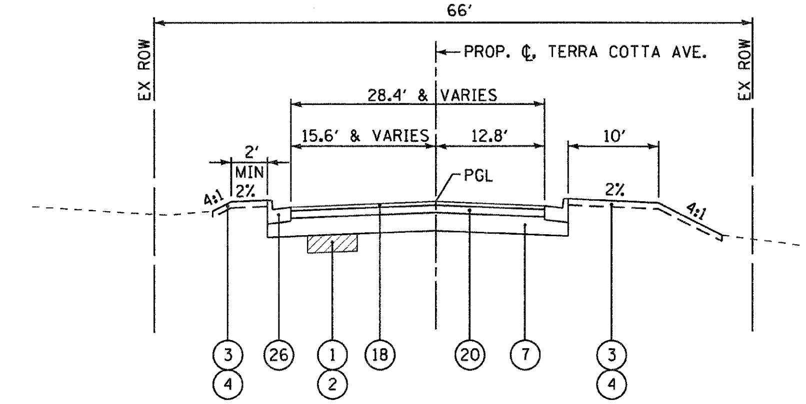
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	19
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537



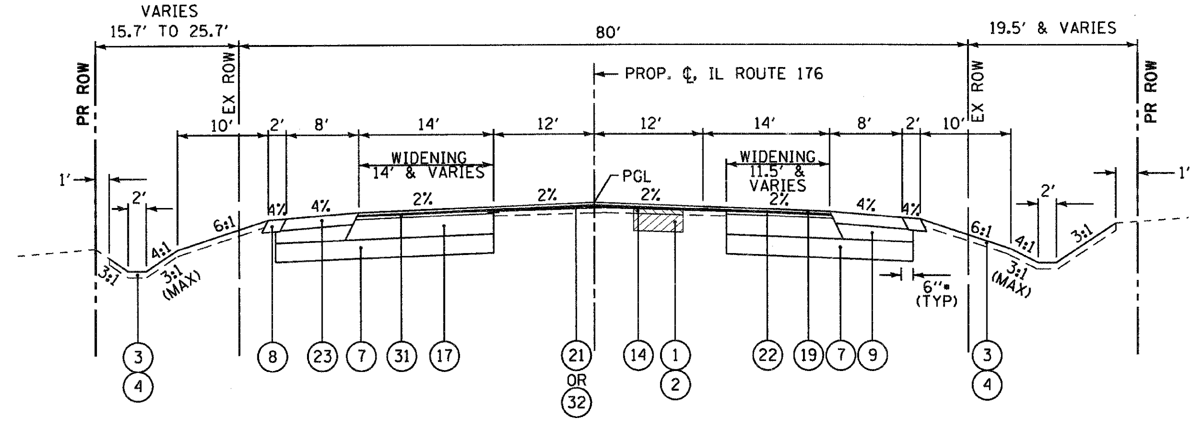
PROPOSED TYPICAL SECTION - IL ROUTE 176

STA. 227+31.96 TO STA. 233+46.70



PROPOSED TYPICAL SECTION - TERRA COTTA AVENUE

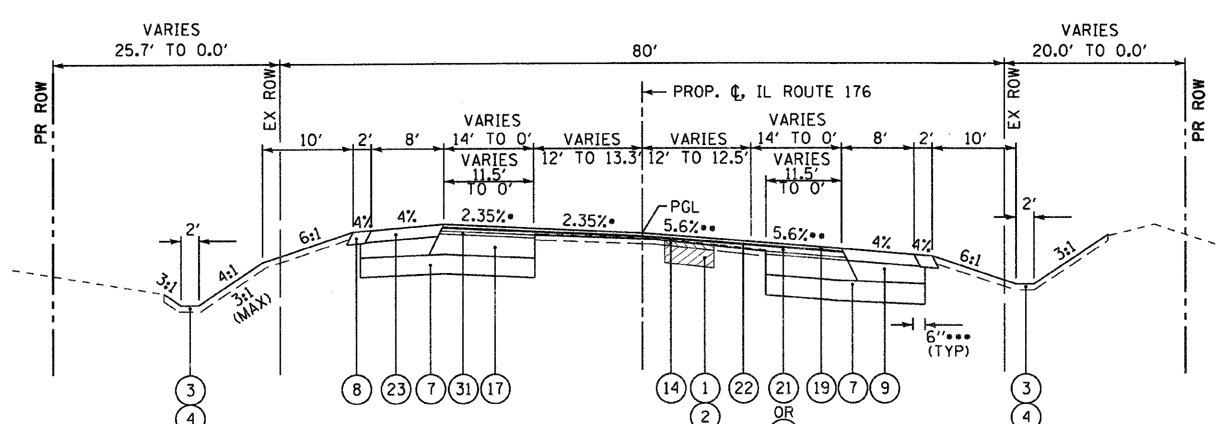
STA. 302+76.16 TO STA. 305+00.00



•SEE STANDARD 482001 FOR DETAILS NOT SHOWN

PROPOSED TYPICAL SECTION - IL ROUTE 176

STA. 233+46.70 TO STA. 235+21.18



•S.E. TRANSITION STA 235+21.18 TO STA 237+51.18, -2% TO 2.35%

••S.E. TRANSITION STA 235+21.18 TO STA 237+51.18, 2% TO 5.60%

•••SEE STANDARD 482001 FOR DETAILS NOT SHOWN

PROPOSED TYPICAL SECTION - IL ROUTE 176

STA. 235+21.18 TO STA. 241+27.78

LEGEND

1. POROUS GRANULAR EMBANKMENT, SUBGRADE (AT LOCATIONS SPECIFIED PER THE SOILS NOTE ON SHEET 15 OR AT LOCATIONS DESIGNATED BY THE ENGINEER) (EXCAVATION PAID FOR PER APPLICABLE EARTHWORK PAY ITEM)
2. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (AT LOCATIONS SPECIFIED PER THE SOILS NOTE ON SHEET 15 OR AT LOCATIONS DESIGNATED BY THE ENGINEER)
3. TOPSOIL FURNISH AND PLACE, 4"
4. SEEDING OR SODDING, SALT TOLERANT (SEE LANDSCAPING PLANS)
5. SUB-BASE GRANULAR MATERIAL, TYPE B 2" (COST INCLUDED IN P.C.C. SIDEWALK 5")
6. SUB-BASE GRANULAR MATERIAL, TYPE B 4"
7. AGGREGATE SUBGRADE IMPROVEMENT, 12"
8. AGGREGATE SHOULDERS, TYPE B, 8"
9. SUB-BASE GRANULAR MATERIAL, TYPE C (COST INCLUDED IN AGGREGATE SUBGRADE IMPROVEMENT, 12")
10. CONCRETE MEDIAN SURFACE 4"
11. CONCRETE MEDIAN, TYPE SB-6.12
12. STABILIZED MEDIAN (HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50, 2") (HOT-MIX ASPHALT BASE COURSE, 8")
13. NOT USED
14. CLASS D PATCHES, 4" (AT LOCATIONS DESIGNATED BY THE ENGINEER)
15. CLASS D PATCHES, 10" (AT LOCATIONS DESIGNATED BY THE ENGINEER)
16. PORTLAND CEMENT CONCRETE PAVEMENT 9 3/4" (JOINTED)
17. HOT-MIX ASPHALT BASE COURSE WIDENING, 9 1/2" (IN THREE LIFTS)
18. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"
19. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4 "
20. HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/4"
21. LEVELING BINDER (MACHINE METHOD), N70, VARIABLE DEPTH (2 1/4" MAXIMUM THICKNESS)
22. POLYMERIZED LEVELING BINDER (MACHINE METHOD, IL-4.75, N50, 3/4"
23. HOT-MIX ASPHALT SHOULDERS, 8"
24. PORTLAND CEMENT CONCRETE SIDEWALK, 5"
25. COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12
26. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
27. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
28. SAWED LONGITUDINAL JOINT WITH 30" LONG DEFORMED EPOXY-COATED NO. 6 TIE BARS @ 30" CTS.
29. LONGITUDINAL CONSTRUCTION JOINT WITH 24" LONG GROUTED IN PLACE DEFORMED EPOXY-COATED NO. 8 TIE BARS @ 24" CTS.
30. 24" LONG DEFORMED EPOXY-COATED NO. 6 TIE BARS @ 24" CTS. GROUTED IN PLACE
31. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, 2 1/4"
32. POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90, VARIABLE DEPTH (2 1/4" MINIMUM THICKNESS)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31 AND IL RTE 176

PROPOSED TYPICAL SECTIONS
ILLINOIS ROUTE 176 &
TERRA COTTA AVENUE

SCALE: NTS
DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: BDH

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
R.T. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTATIONS CHKD		
NOTE BOOK NO.		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	20
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

TREE REMOVAL (6 TO 15 UNIT DIA)

STATION	OFFSET (FOOT)	QUANTITY (UNIT)
ROUTE 31		
109+52	59 LT	10
109+62	59 LT	12
109+74	59 LT	12
134+53	45 RT	6
134+65	39 RT	6
134+68	40 RT	12
134+75	42 RT	6
134+87	42 RT	7
134+98	49 RT	12
135+05	47 RT	15
135+52	50 RT	10
135+55	51 RT	8
135+62	54 RT	8
135+70	55 RT	8
135+76	62 RT	8
136+16	52 LT	2
136+62	52 LT	2
137+16	54 LT	10
137+46	50 LT	8
138+94	58 LT	6
139+00	59 LT	12
139+17	55 LT	8
139+22	49 LT	8
143+27	50 RT	14
143+71	49 RT	14
147+28	64 LT	12
ROUTE 176		
213+94	59 RT	5
214+05	57 RT	5
214+57	59 RT	5
215+00	59 RT	5
215+46	59 RT	5
217+94	65 RT	5
218+63	85 RT	9
225+23	49 RT	12
225+23	51 RT	8
225+24	64 RT	8
227+88	56 RT	1
227+90	54 RT	1
227+91	51 RT	1
230+76	49 RT	15
230+91	44 RT	12
231+02	57 RT	6
231+05	47 RT	6
231+38	53 RT	6
231+41	42 RT	6
231+44	56 RT	3
231+46	55 RT	6
231+49	45 RT	6
231+77	54 RT	7
232+31	46 RT	12
232+56	45 RT	12
232+75	56 RT	6
232+94	44 RT	12
234+82	52 RT	8
235+08	50 RT	12
238+02	43 RT	12
238+60	41 RT	12
TERRA COTTA AVENUE		
303+40	197 RT	6
303+41	110 RT	12
303+42	94 RT	12
303+42	104 RT	6
303+43	131 RT	12
303+43	177 RT	10
303+43	190 RT	15
303+44	99 RT	8
303+44	145 RT	12
303+46	108 RT	6
303+48	158 RT	8
303+49	121 RT	8
303+51	39 RT	12
TOTAL QUANTITY =		592

TREE REMOVAL (OVER 15 UNIT DIA)

STATION	OFFSET (FOOT)	QUANTITY (UNIT)
ROUTE 31		
134+68	56 RT	20
135+69	66 RT	36
138+73	57 LT	18
144+20	49 RT	22
147+33	53 LT	22
ROUTE 176		
206+27	38 LT	18
206+50	40 LT	24
206+66	42 LT	24
206+95	41 LT	42
207+24	39 LT	42
207+85	39 LT	36
208+52	39 LT	30
230+40	45 RT	42
233+33	56 RT	18
233+81	39 RT	18
233+97	56 RT	42
234+30	38 RT	24
235+21	51 RT	18
235+76	53 RT	36
236+29	45 RT	36
236+35	38 RT	24
TERRA COTTA AVENUE		
303+34	204 RT	36
303+42	169 RT	24
TOTAL QUANTITY =		652

EROSION CONTROL BLANKET

STATION FROM	STATION TO	SIDE	AREA (SQ YD)
FOR SEEDING, CLASS 2A			
ROUTE 31			
131+00	143+00	LT	2263
131+00	143+00	RT	1164
143+00	149+00	LT	3045
143+00	149+00	RT	0
ROUTE 176			
215+50	224+50	LT	0
215+50	224+50	RT	755
224+50	236+00	LT	1983
224+50	236+00	RT	3343
236+00	241+27.78	LT	1892
236+00	241+27.78	RT	1273
TERRA COTTA AVENUE			
300+00	305+00	LT/RT	3899
FOR SEEDING, CLASS 4A			
TERRA COTTA AVENUE			
300+00	305+00	LT/RT	4102
TOTAL			23719

STONE DUMPED RIPRAP, CLASS A7

STATION	OFFSET	AREA (SQ YD)
TERRA COTTA AVENUE		
301+22	1′ RT	17
301+98	70′ LT	18
302+15	67′ LT	12
302+25	93′ LT	15
303+40	167′ RT	14
TOTAL		76

FILTER FABRIC

STATION	OFFSET	AREA (SQ YD)
TERRA COTTA AVENUE		
301+22	1′ RT	17
301+98	70′ LT	18
302+15	67′ LT	12
302+25	93′ LT	15
303+40	167′ RT	14
TOTAL		76

AGGREGATE SUBGRADE IMPROVEMENT, 12 INCH

STATION FROM	STATION TO	AREA (SQ. YD.)
ROUTE 31		
109+17	119+00	9,308
119+00	131+00	12,410
131+00	139+35	7,191
139+35	143+00	902
143+00	149+00	1,849
ROUTE 176		
206+11	215+50	7,569
215+50	219+56	5,104
220+77	224+50	4,875
224+50	233+47	6,997
233+47	236+00	1,241
236+00	241+28	1,743
TERRA COTTA AVENUE		
301+10	305+00	1,576
TOTAL QUANTITY =		60,765

SEDIMENT CONTROL, SILT FENCE

LOCATION	SIDE	LENGTH (FEET)
109+17 TO 109+79	RT	62
109+92 TO 110+15	RT	23
110+30 TO 111+02	RT	72
111+22 TO 112+16	RT	94
112+36 TO 113+66	RT	130
113+78 TO 114+86	RT	108
115+97 TO 116+46	RT	49
123+94 TO 125+67	LT	173
126+79 TO 127+50	LT	71
129+68 TO 130+83	RT	115
129+74 TO 133+50	LT	376
132+00 TO 133+47	RT	147
134+29 TO 135+98	RT	171
138+20 TO 139+27	RT	122
139+60 TO 140+22	RT	77
140+76 TO 141+17	RT	76
141+40 TO 142+47	RT	107
143+00 TO 148+49	LT	571
205+82 TO 206+67	LT	85
208+65 TO 209+46	RT	81
210+00 TO 211+03	RT	103
212+79 TO 214+18	RT	122
214+41 TO 215+68	RT	127
216+69 TO 218+12	RT	143
222+00 TO 224+67	LT	267
222+72 TO 223+08	RT	36
225+00 TO 227+29	LT	234
227+70 TO 228+50	LT	80
228+77 TO 234+88	LT	651
235+20 TO 236+50	LT	130
236+22 TO 237+12	RT	90
237+32 TO 237+77	RT	50
237+50 TO 238+50	LT	100
237+94 TO 238+90	RT	96
239+04 TO 241+28	RT	239
303+50 TO 305+01	RT	325
TOTAL		5,503

MULCH, METHOD 2

LOCATION	AREA (ACRE)
STAGE 1	
107+00 TO 119+00	0.25
119+00 TO 131+00	0.48
131+00 TO 143+00	0.52
143+00 TO 149+00	0.28
205+00 TO 215+50	0.34
215+50 TO 224+50	0.14
224+50 TO 236+00	0.60
236+00 TO 241+28	0.33
300+00 TO 305+00	1.54
STAGE 1 TOTAL	4.49
STAGE II	
107+00 TO 119+00	0.32
119+00 TO 131+00	0.35
131+00 TO 143+00	0.57
143+00 TO 149+00	0.11
205+00 TO 215+50	0.35
215+50 TO 224+50	0.28
224+50 TO 236+00	0.58
236+00 TO 241+28	0.24
STAGE II TOTAL	2.78
TOTAL	7.28

TEMPORARY SHOULDERS

STATION FROM	STATION TO	OFFSET	AREA (SQ. YD.)
PRE-STAGE:			
ROUTE 31			
126+80	129+22	LT	54
129+57	137+50	LT	176
142+62	145+45	LT	63
ROUTE 176			
204+00	206+22	RT	49
206+72	214+43	RT	171
223+88	241+00	RT	381
STAGE 1:			
ROUTE 31			
143+00	149+00	RT	133
ROUTE 176			
236+00	243+00	LT	156
TOTAL			1,183

EARTHWORK

LOCATION	UNSUITABLE EXCAVATION* (CU YD)	SUITABLE EXCAVATION* (CU YD)	SUITABLE EXCAVATION ADJUSTED FOR 15% SHRINKAGE (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)	REMOVAL & DISPOSAL OF UNSUITABLE MAT. (CU YD)	EARTH EXCAVATION (CU YD)	FURNISHED EXCAVATION (CU YD)
PRE-STAGE:								
ROUTE 31	678	0	0	386	-386	678	0	0
ROUTE 176	820	0	0	294	-294	820	0	0
TERRA COTTA AVENUE	0	0	0	0	0	0	0	0
DETENTION BASIN	7,051	1,152	979	299	680	7,051	1,152	0
SUB-TOTAL =	8,549	1,152	979	979	0	8,549	1,152	0
STAGE 1:								
ROUTE 31	3,961	0	0	1,612	-1,612	3,961	0	1,612
ROUTE 176	6,916	0	0	1,384	-1,384	6,916	0	1,384
TERRA COTTA AVENUE	686	0	0	92	-92	686	0	92
DETENTION BASIN	0	0	0	0	0	0	0	0
SUB-TOTAL =	11,563	0	0	3,088	-3,088	11,563	0	3,088
STAGE 2:								
ROUTE 31	3,668	0	0	1,244	-1,244	3,548	0	1,244
ROUTE 176	5,462	0	0	1,436	-1,436	5,462	0	1,436
TERRA COTTA AVENUE	0	0	0	0	0	0	0	0
DETENTION BASIN	0	0	0	0	0	0	0	0
SUB-TOTAL =	9,130	0	0	2,680	-2,680	9,130	0	2,680
STAGE 3:			0					
ROUTE 31	1,429	0	0	222	-222	1,429	0	222
ROUTE 176	1,477	0	0	355	-355	1,477	0	355
TERRA COTTA AVENUE	0	0	0	0	0	0	0	0
DETENTION BASIN	0	0	0	0	0	0	0	0
SUB-TOTAL =	2,906	0	0	577	-577	2,906	0	577
UNDERCUTS			0					
ROUTE 31	1,260	0	0	0	0	1,260	0	0
ROUTE 176	369	0	0	0	0	369	0	0
TERRA COTTA AVENUE	0	0	0	0	0	0	0	0
SUB-TOTAL =	1,629	0	0	0	0	1,629	0	0
TOTAL QUANTITY =	32,148	1,152	979	7,324	-6,201	33,777	1,152	6,345

*ALL CUT MATERIAL SHALL BE HAULED OFF SITE DUE TO NO ON-SITE STORAGE LOCATIONS, EXCEPT FOR PRE-STAGE EXCAVATION. DURING PRE-STAGE BORROW MATERIAL TO BE USED MAY BE STORED AT THE TERRA COTTA AVENUE FUTURE CUL-DE-SAC LOCATION FOR USE AS EMBANKMENT.

TEMPORARY PAVEMENT

STATION FROM	STATION TO	OFFSET	AREA (SQ. YD.)
PRE-STAGE:			
ROUTE 31			
100+00	107+00	LT & RT	781
107+00	119+00	LT	808
119+00	131+00	LT	504
131+00	143+00	LT	844
143+00	157+00	LT	978
ROUTE 176			
195+00	205+00	RT	10
205+00	215+50	RT	907
215+50	224+50	RT	242
224+50	236+00	RT	1,188
236+00	249+00	RT	353
STAGE 1:			
ROUTE 31			
100+00	107+00	LT	251
107+00	119+00	RT	603
119+00	131+00	RT	326
143+00	157+00	RT	345
ROUTE 176			
205+00	215+50	LT & RT	413
215+50	224+50	LT	382
236+00	249+00	LT	314
STORM SEWER INSTALLATION		LT & RT	1,365
TOTAL			10,614

TEMPORARY DITCH CHECKS (SPECIAL)

STATION	SIDE	QUANTITY (EACH)
STAGE 1		
115+86	LT	1
117+85	LT	1
132+00	LT	1
133+48	LT	1
133+70	RT	1
135+00	LT	1
136+00	RT	1
211+42	RT	1
227+00	LT	1
228+31	RT	1
229+49	LT	1
233+02	LT	1
235+00	RT	1
235+70	LT	1
STAGE 2		
122+00	LT	1
126+15	RT	1
131+95	RT	1
143+50	RT	1
145+15	RT	1
145+50	RT	1
146+25	RT	1
233+65	LT	1
236+40	LT	1
238+30	LT	1
239+80	LT	1
STAGE 3		
125+00	LT	1
127+60	LT	1
130+00	LT	1
140+00	LT	1
224+40	RT	1
235+60	RT	1
TOTAL		31

GUARDRAIL REMOVAL

STATION FROM	STATION TO	SIDE	LENGTH (FOOT)
ROUTE 31			
146+15	148+55	LT	240
TOTAL			240

REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A

STATION FROM	STATION TO	SIDE	LENGTH (FOOT)
ROUTE 31			
150+05	151+50	LT	145
TOTAL			145

SUB-BASE GRANULAR MATERIAL, TYPE B - 4″

STATION FROM	STATION TO	AREA (SQ. YD.)
ROUTE 31		
109+17	119+00	336
119+00	131+00	221
ROUTE 176		
206+11	215+50	532
215+50	224+50	111
224+50	236+00	204
MEDIAN STAGING		
100+00	109+17	1,231
TOTAL QUANTITY =		2,635

GEOTECHNICAL FABRIC FOR GROUND STABILIZATION

STATION FROM	STATION TO	AREA (SQ. YD.)
ROUTE 31		
109+17	119+00	9,308
119+00	131+00	12,410
131+00	139+35	7,191
ROUTE 176		
206+11	215+50	7,569
215+50	219+56	5,104
220+77	224+50	4,875
224+50	233+47	6,997
TOTAL QUANTITY =		53,454

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

SCHEDULE OF QUANTITIES

SCALE: NTS
DATE: 02/10/2012
DRAWN BY: BCD
CHECKED BY: BDH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	21
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

POLYUREA PAVEMENT MARKING TYPE 1 - LETTERS AND SYMBOLS

STATION FROM	STATION TO	AREA (SQ FT)
ROUTE 31		
109+17.20	131+00	648
131+00	149+00	202
ROUTE 176		
206+10.77	215+50	73
215+50	224+50	401
224+50	241+27.78	137
TOTAL QUANTITY =		1,461

POLYUREA PAVEMENT MARKING TYPE 1 - LINE 4"

STATION FROM	STATION TO	LENGTH (FEET)
ROUTE 31		
109+17.20	131+00	1,573
131+00	149+00	2,507
ROUTE 176		
206+10.77	215+50	2,940
215+50	224+50	533
224+50	241+27.78	2,122
TOTAL QUANTITY =		9,675

POLYUREA PAVEMENT MARKING TYPE 1 - LINE 6"

STATION FROM	STATION TO	LENGTH (FEET)
ROUTE 31		
109+17.20	131+00	2,591
131+00	149+00	345
ROUTE 176		
206+10.77	215+50	251
215+50	224+50	1,810
224+50	241+27.78	226
TOTAL QUANTITY =		5,223

POLYUREA PAVEMENT MARKING TYPE 1 - LINE 8"

STATION FROM	STATION TO	LENGTH (FEET)
ROUTE 176		
206+10.77	215+50	197
215+50	224+50	412
TOTAL QUANTITY =		609

POLUREA PAVEMENT MARKING TYPE 1 - LINE 12"

STATION FROM	STATION TO	LENGTH (FEET)
ROUTE 31		
109+17.20	131+00	117
131+00	149+00	61
ROUTE 176		
206+10.77	215+50	144
215+50	224+50	280
224+50	241+27.78	64
TOTAL QUANTITY =		666

POLYUREA PAVEMENT MARKING TYPE 1 - LINE 24"

STATION FROM	STATION TO	LENGTH (FEET)
ROUTE 31		
109+17.20	131+00	161
131+00	149+00	52
ROUTE 176		
206+10.77	215+50	24
215+50	224+50	132
TOTAL QUANTITY =		369

THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS

STATION FROM	STATION TO	AREA (SQ FT)
ROUTE 31		
96+00	109+17	73
143+00	149+00	36
TOTAL QUANTITY =		109

THERMOPLASTIC PAVEMENT MARKING - LINE 4"

STATION FROM	STATION TO	LENGTH (FEET)
ROUTE 31		
95+00	107+00	1,917
107+00	119+00	488
131+00	149+00	5,800
149+00	152+50	1,400
ROUTE 176		
195+00	205+00	1,843
224+50	241+28	3,174
241+28	244+00	1,088
TOTAL QUANTITY =		15,710

THERMOPLASTIC PAVEMENT MARKING - LINE 6"

STATION FROM	STATION TO	LENGTH (FEET)
ROUTE 31		
95+00	107+00	220
107+00	119+00	177
131+00	149+00	396
TOTAL QUANTITY =		793

THERMOPLASTIC PAVEMENT MARKING - LINE 12"

STATION FROM	STATION TO	LENGTH (FEET)
ROUTE 31		
131+00	149+00	257
ROUTE 176		
203+00	206+10	150
TOTAL QUANTITY =		407

POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX F, N90

STATION FROM	STATION TO	AREA (SQ.YD.)	THICKNESS (IN.)	TONS
ROUTE 31				
139+35	143+00	2181	1.75	214
143+00	149+00	2668	1.75	261
ROUTE 176				
233+47	236+00	1448	1.75	142
236+00	241+28	2166	1.75	212
TOTAL				829

HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50

STATION FROM	STATION TO	AREA (SQ.YD.)	THICKNESS (IN.)	TONS
TERRA COTTA AVENUE				
301+10	305+50	1481	1.5	124
DRIVEWAYS				
ALL	-	7687	2	861
HMA MEDIAN				
213+21	216+55	643	2	72
TOTAL				1,057

HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50

STATION FROM	STATION TO	AREA (SQ.YD.)	THICKNESS (IN.)	TONS
TERRA COTTA AVENUE				
302+58	305+00	1481	2.25	187
TOTAL				187

POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50

STATION FROM	STATION TO	AREA (SQ.YD.)	THICKNESS (IN.)	TONS
ROUTE 31				
139+35	143+00	2,181	0.75	92
143+00	149+00	2,668	0.75	112
ROUTE 176				
233+47	236+00	1,448	0.75	61
236+00	241+28	2,166	0.75	91
TOTAL				355

POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90

STATION FROM	STATION TO	AREA (SQ.YD.)	THICKNESS (IN.)	TONS
ROUTE 31				
139+35	143+00	253	2.25	32
143+00	149+00	713	2.25	90
139+35	143+00	VARIES	VARIES	322
143+00	149+00	VARIES	VARIES	175
ROUTE 176				
233+47	236+00	724	2.25	91
236+00	241+28	663	2.25	84
233+47	236+00	VARIES	VARIES	192
236+00	241+28	VARIES	VARIES	200
TOTAL				1,135

HOT-MIX ASPHALT BASE COURSE 8"

STATION FROM	STATION TO	AREA (SQ. YD.)
DRIVEWAYS		
ALL	-	6235
HMA MEDIAN		
213+21	216+55	643
TOTAL		6,878

AGGREGATE SHOULDERS, TYPE B

FROM STATION	TO STATION	SIDE	AREA (SQ YD)	THICKNESS (IN)	TONS
ROUTE 31					
138+40	143+00	LT	68	8	27
139+35	143+00	RT	41	8	16
143+00	149+00	LT	103	8	41
143+00	149+00	RT	109	8	44
ROUTE 176					
233+47	236+00	LT	43	8	17
233+47	236+00	RT	38	8	15
236+00	241+28	LT	107	8	43
236+00	241+28	RT	80	8	32
TOTAL					236

CONCRETE MEDIAN SURFACE REMOVAL

FROM STATION	TO STATION	AREA (SQ. FT.)
ROUTE 31		
109+20	112+95	5,424
ISLAND		
121+15	121+40	238
121+40	122+10	1,641
STAGING		
95+00	109+17	9,986
TOTAL		17,289

HOT-MIX ASPHALT SHOULDERS 8"

STATION FROM	STATION TO	SIDE	AREA (SQ YD)
ROUTE 31			
138+40	143+00	LT	289
139+35	143+00	RT	298
143+00	149+00	LT	422
143+00	149+00	RT	530
ROUTE 176			
233+47	236+00	LT	226
233+47	236+00	RT	198
236+00	241+28	LT	474
236+00	241+28	RT	465
TOTAL			2,902

HOT-MIX ASPHALT SURFACE REMOVAL 2"

STATION FROM	STATION TO	AREA (SQ. YD.)
ROUTE 31		
139+35	143+00	1929
143+00	149+00	2009
ROUTE 176		
233+47	236+00	725
236+00	241+28	1487
TOTAL QUANTITY =		6150

PAVED SHOULDER REMOVAL

FROM STATION	TO STATION	AREA (SQ. YD.)
ROUTE 31		
125+78	131+00	952
131+00	143+00	1,206
143+00	149+00	795
ROUTE 176		
212+10	215+50	833
215+50	119+70	149
TOTAL		3,935

HOT-MIX ASPHALT BASE COURSE WIDENING, 9 1/2"

STATION FROM	STATION TO	AREA (SQ. YD.)
ROUTE 31		
139+35	143+00	253
143+00	149+00	713
ROUTE 176		
233+47	236+00	724
236+00	241+28	663
TOTAL QUANTITY =		2353

PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 12"

STATION	OFFSET (FEET)	QUANTITY (EACH)
ROUTE 176		
206+00	35 RT	1
TERRA COTTA		
302+24	67 RT	1
TOTAL		2

PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 30"

STATION	OFFSET (FEET)	QUANTITY (EACH)
ROUTE 31		
147+23	51 LT	1
148+00	47 RT	1
ROUTE 176		
222+04	107 RT	1
TOTAL		3

PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 36"

STATION	OFFSET (FEET)	QUANTITY (EACH)
RTE 31		
120+79	111 RT	1
RTE 176		
221+65	108 RT	1
TERRA COTTA		
303+42	29 RT	1
TOTAL		3

PAVEMENT REMOVAL

FROM STATION	TO STATION	AREA (SQ. YD.)
ROUTE 31		
109+17.2	119+00	7,815
119+00	131+00	8,127
131+00	139+35	4,602
139+35	141+33	391
143+00	144+50	81
ROUTE 176		
206+10.77	215+00	4,186
215+00	119+70	2,916
220+52	224+50	2,913
224+50	236+00	2,691
TERRA COTTA AVENUE		
300+75	305+00	2,064
309+45	309+90	61
TEMP PAVEMENT		
-	-	9,249
TOTAL		45,096

REMOVING CATCH BASINS

STATION	OFFSET (FEET)	QUANTITY (EACH)
ROUTE 31		
111+25	43 RT	1
111+26	2 RT	1
111+27	42 LT	1
111+27	48 LT	1
112+56	40 LT	1
112+59	40 RT	1
115+29	39 LT	1
115+29	38 RT	1
117+18	39 LT	1
117+82	42 RT	1
119+03	39 LT	1
119+28	43 RT	1
119+97	43 RT	1
120+07	31 LT	1
121+16	55 LT	1
121+86	116 LT	1
122+37	41 LT	1
122+43	39 RT	1
123+51	37 RT	1
123+62	41 LT	1
124+96	42 LT	1
125+97	44 LT	1
126+84	36 LT	1
129+77	33 LT	1
130+36	34 LT	1
145+08	42 RT	1
ROUTE 176		
211+65	39 LT	1
211+86	30 LT	1
216+93	69 RT	1
218+52	57 LT	1
221+37	76 RT	1
221+92	4 LT	1
229+58	54 RT	1
TERRA COTTA		
302+00	33 RT	1
302+36	19 RT	1
302+46	20 LT	1
302+46	27 LT	1
302+51	27 RT	1
302+54	19 RT	1
302+60	26 LT	1
TOTAL		40

CATCH BASINS TO BE ADJUSTED

STATION	OFFSET (FEET)	QUANTITY (EACH)
NOMINAL	-	1
TOTAL		1

MANHOLES TO BE ADJUSTED

STATION	OFFSET (FEET)	QUANTITY (EACH)
ROUTE 31		
112+72	51 RT	1
124+72	64 LT	1
127+36	55 LT	1
127+92	45 LT	1
130+48	47 LT	1
142+26	30 LT	1
145+69	36 LT	1
ROUTE 176		
207+70	46 LT	1
TOTAL		8

PIPE CULVERT REMOVAL

STATIONING FROM STA	O/S	TO STA.	O/S	QUANTITY (FOOT)
ROUTE 31				
110+50	54 LT	110+73	54 LT	23
126+37	43 RT	127+57	39 RT	120
126+37	43 RT	127+57	39 RT	120
127+72	27 RT	128+05	36 RT	34
129+10	35 RT	129+78	35 RT	68
129+10	37 RT	129+78	37 RT	68
130+69	35 RT	131+37	35 RT	68
130+69	37 RT	131+37	37 RT	68
134+03	38 RT	134+34	36 RT	31
136+73	30 LT	136+73	37 RT	67
136+91	44 LT	138+98	45 LT	208
142+34	30 RT	142+96	29 RT	63
144+57	31 RT	145+12	30 RT	55
147+58	32 RT	147+79	33 RT	21
ROUTE 176				
206+08	33 RT	207+02	35 RT	93
209+47	28 RT	209+95	30 RT	49
212+12	31 RT	213+17	32 RT	105
213+55	32 LT	213+89	33 LT	34
215+52	42 RT	216+19	42 RT	67
223+25	40 RT	223+66	36 RT	41
225+75	24 RT	226+52	25 RT	77
227+38	26 RT	227+98	26 RT	60
228+44	46 LT	228+84	46 LT	40
229+29	26 RT	230+00	24 RT	71
230+39	23 RT	230+69	22 RT	30
231+92	27 RT	234+20	25 RT	27
231+95	24 LT	232+88	24 LT	93
233+03	25 RT	233+33	25 RT	30
233+43	26 RT	233+70	26 RT	27
234+27	29 LT	235+46	33 LT	119
234+45	27 RT	234+70	27 RT	25
236+01	27 RT	236+29	27 RT	28
237+10	26 RT	237+37	26 RT	27
TERRA COTTA				
309+32	37 RT	310+10	35 RT	79
309+32	37 RT	310+10	35 RT	79
TOTAL =				2,215

HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT

STATION	LENGTH (FT.)	WIDTH (FT.)	AREA (SQ.YD.)
ROUTE 31			
149+00	4.5	26.6	13
ROUTE 176			
241+27.78	4.5	25.8	13
TOTAL			26

FILLING MANHOLES

STATION	OFFSET (FEET)	QUANTITY (EACH)
ROUTE 31		
125+09	46 RT	1
TOTAL		1

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

SCHEDULE OF QUANTITIES

SCALE: NTS
DRAWN BY: BCD
DATE: 02/10/2012
CHECKED BY: BDH

PLAN
SURVEYED
PLOTTED
AUTOMATIC CHECKED
GRADES CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
STRUCTURE NO(S).
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	22
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

DRIVEWAY QUANTITY SCHEDULE

STATION	OFFSET	EXISTING PAVEMENT STRUCTURE AND TYPE		DRIVEWAY PAVEMENT REMOVAL (SQ. YD.)	HOT-MIX ASPHALT BASE COURSE 6 INCHES (SQ. YD.)	HOT-MIX ASPHALT BASE COURSE 8 INCHES (SQ. YD.)	HOT-MIX ASPHALT SURFACE COURSE MIX D, N50, 2 IN (TON)	P.C.C. DRIVEWAY PVMT 8 INCHES (SQ. YD.)
ROUTE 31								
109+85	RT	P.E.	BIT	23.7	40.3	-	4.5	-
110+21	RT	P.E.	BIT	24.7	49.9	-	5.6	-
110+61	LT	C.E.	BIT	41.2	-	60.0	6.7	-
111+11	RT	C.E.	PCC	39.2	-	-	-	57.4
112+25	RT	C.E.	PCC/BIT	120.5	-	90.7	10.2	52.7
112+76	LT	C.E.	BIT	224.5	-	181.0	20.3	-
113+74	RT	P.E.	BIT	36.2	84.2	-	9.4	-
114+30	LT	C.E.	BIT	80.0	-	46.9	5.3	-
114+97	RT	C.E.	BIT	355.5	-	119.3	13.4	-
115+57	RT	C.E.	BIT	313.7	-	232.9	26.1	-
116+58	RT	C.E.	BIT	181.6	-	199.8	22.4	-
116+89	LT	C.E.	BIT	74.9	-	73.8	8.3	-
117+08	RT	C.E.	BIT	162.8	-	42.6	4.8	-
118+50	RT	C.E.	BIT	186.1	-	48.8	5.5	-
119+00	LT	C.E.	BIT	114.6	-	145.9	16.3	-
119+00	RT	C.E.	BIT	127.3	-	60.2	6.7	-
119+68	RT	C.E.	BIT	-	-	59.1	6.6	-
123+51	LT	C.E.	PCC	484.2	-	347.0	38.9	118.7
126+64	LT	C.E.	BIT	264.0	-	47.3	5.3	-
127+00	RT	C.E.	BIT	218.0	-	139.4	15.6	-
127+89	RT	C.E.	BIT	110.7	-	74.5	8.3	-
129+46	RT	C.E.	PCC/BIT	188.7	-	-	-	137.9
131+00	RT	C.E.	PCC/BIT	383.2	-	-	-	81.9
134+25	RT	C.E.	BIT	27.0	-	47.5	5.3	-
138+22	RT	C.E.	BIT	47.5	-	52.3	5.9	-
139+47	RT	C.E.	BIT	33.8	-	277.1	31.0	-
140+42	RT	C.E.	BIT	181.5	-	102.3	11.5	-
141+29	RT	C.E.	BIT	48.3	-	44.1	4.9	-
142+16	LT	C.E.	BIT	91.8	-	85.6	9.6	-
142+64	RT	C.E.	BIT	251.9	-	174.2	19.5	-
144+87	RT	C.E.	BIT	338.9	-	108.5	12.2	-
147+68	RT	C.E.	AGG	-	-	66.8	7.5	-
ROUTE 176								
207+67	LT	C.E.	BIT	191.8	-	95.8	10.7	-
207+74	RT	P.E.	BIT	239.8	64.0	-	7.2	-
208+49	RT	P.E.	BIT	72.3	47.6	-	5.3	-
209+69	RT	C.E.	BIT	110.2	-	51.0	5.7	-
211+40	LT	C.E.	BIT	125.8	-	114.2	12.8	-
212+64	RT	C.E.	BIT	199.8	-	95.4	10.7	-
214+27	LT	C.E.	BIT	241.9				
214+30	RT	C.E.	BIT	121.9	-	57.1	6.4	-
215+04	LT	C.E.	BIT	296.9	-	119.9	13.4	-
215+84	RT	C.E.	BIT	268.2	-	159.5	17.9	-
215+94	LT	C.E.	BIT	260.0				
216+59	LT	C.E.	BIT	123.2	-	63.2	7.1	-
217+47	LT	C.E.	PCC	579.7	-	-	-	65.8
218+28	RT	C.E.	BIT	108.9	-	206.8	23.2	-
222+31	RT	P.E.	BIT	-	272.8	-	30.6	-
223+49	RT	C.E.	BIT	1134.5	-	413.1	46.3	-
224+54	LT	C.E.	BIT	161.4	-	100.1	11.2	-
226+15	RT	C.E.	BIT	399.7	-	268.7	30.1	-
227+50	LT	C.E.	BIT	484.2	-	471.7	52.8	-
227+57	RT	C.E.	BIT	156.0	-	96.6	10.8	-
228+62	LT	C.E.	BIT	587.3	-	307.0	34.4	-
229+64	RT	C.E.	BIT	465.1	-	355.3	39.8	-
230+56	RT	P.E.	BIT	218.4	182.4	-	20.4	-
232+18	RT	P.E.	BIT	188.8	118.0	-	13.2	-
233+15	RT	P.E.	BIT	138.8	89.4	-	10.0	-
233+56	RT	P.E.	BIT	152.9	113.7	-	12.7	-
234+57	RT	P.E.	BIT	155.5	94.2	-	10.6	-
235+03	LT	C.E.	BIT	277.9	-	133.2	14.9	-
236+16	RT	P.E.	BIT	53.2	58.8	-	6.6	-
237+23	RT	P.E.	AGG	-	68.3	-	7.6	-
237+84	RT	P.E.	AGG	-	84.1	-	9.4	-
238+98	RT	P.E.	BIT	134.3	84.4	-	9.5	-
239+38	LT	C.E.	AGG	-	-	199.0	22.3	-
TERRA COTTA								
301+10	RT	C.E.	BIT	217.9	-	-	-	-
301+74	RT	P.E.	BIT	1944.1	-	-	-	-
TOTAL QUANTITY =				14586	1452	6235	861	514

PAVED DITCH REMOVAL

FROM STATION	FROM SIDE	TO STATION	TO SIDE	LENGTH (FEET)
ROUTE 31				
114+76	RT	116+52	RT	176
117+27	RT	118+19	RT	93
TOTAL				269

CONCRETE HEADWALL REMOVAL

STATION	OFFSET (FEET)	CONCRETE VOLUME (CUBIC YARDS)	QUANTITY (EACH)
ROUTE 31			
136+72	36 RT	1.5	1
147+23	34 LT	2.0	1
TOTAL			2

COMBINATION CURB AND GUTTER REMOVAL

FROM STATION	FROM SIDE	TO STATION	TO SIDE	LENGTH (FEET)
ROUTE 31				
109+17	LT	119+00	LT	987
109+17	RT	119+00	RT	984
119+00	LT	124+65	LT	448
119+00	RT	126+35	RT	515
129+10	RT	131+00	RT	189
137+20	LT	139+00	LT	259
137+50	RT	143+00	RT	86
143+00	LT	143+23	LT	24
ROUTE 176				
214+00	LT	215+50	LT	148
215+50	LT	223+50	LT	727
217+35	RT	223+20	RT	463
TERRA COTTA AVENUE				
301+10	LT	305+00	LT	376
300+50	RT	303+60	RT	343
DRIVEWAYS				
112+76	LT			240
114+30	LT			53
116+58	RT			17
116+89	LT			48
119+00	LT			193
123+51	LT			332
126+64	LT			38
127+05	RT			231
129+39	LT			216
129+46	RT			116
131+00	RT			184
138+90	RT			63
139+47	RT			60
140+47	RT			73
141+29	RT			96
142+20	LT			256
142+64	RT			87
144+87	RT			254
206+50	RT			113
207+67	LT			61
208+49	RT			61
209+69	RT			78
211+40	LT			89
212+64	RT			71
214+30	RT			118
215+84	RT			135
215+94	LT			77
216+59	LT			57
217+47	LT			224
218+28	RT			59
223+32	RT			65
227+55	LT			254
309+72	RT			36
MEDIAN				
109+20	CL	112+95	CL	763
				DRIVEWAYS
ISLAND				
121+15	LT	121+40	LT	76
121+40	RT	122+10	RT	177
STAGING				
95+00	CL	109+17	CL	1,567
TOTAL				12,187

SIDEWALK REMOVAL

STATION FROM	STATION TO	SIDE	AREA (SQ FT)
ROUTE 31			
118+40	119+00	LT	308
119+00	120+55	LT	787
121+59	125+70	LT	1196
137+22	137+60	LT	287
138+32	138+56	LT	132
ROUTE 176			
206+23	206+27	RT	72
216+70	217+25	LT	234
215+50	218+30	LT	1182
217+35	219+00	RT	648
231+90	232+08	RT	79
TERRA COTTA			
301+42	302+11	RT	812
TOTAL			5,737

COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.12

FROM STATION	FROM SIDE	TO STATION	TO SIDE	LENGTH (FEET)
TERRA COTTA AVENUE				
302+60	LT/RT	305+00	LT/RT	564
MEDIANS				
113+13	CL	114+02	CL	180
114+55	CL	116+22	CL	336
127+17	CL	128+97	CL	360
225+62	CL	227+32	CL	340
DRIVEWAYS				
111+11	RT			47
112+25	RT			44
112+76	LT			199
114+30	LT			30
114+97	RT			30
115+57	RT			30
116+58	RT			31
116+89	LT			75
117+08	RT			31
118+50	RT			30
119+00	LT			173
119+00	RT			32
119+68	RT			32
123+51	LT			191
126+64	LT			33
127+00	RT			60
127+89	RT			50
129+46	RT			59
129+49	LT			27
131+00	RT			128
137+91	LT			59
139+47	RT			18
207+67	LT			69
207+74	RT			54
208+49	RT			36
209+69	RT			53
211+40	LT			59
212+64	RT			26
214+30	RT			47
215+04	LT			67
215+84	RT			73
216+59	LT			36
217+47	LT			36
218+28	RT			101
223+49	RT			101
224+54	LT			111
226+15	RT			35
227+50	LT			223
227+57	RT			51
228+62	LT			86
229+64	RT			61
STAGING				
95+00	-	109+17	-	1,578
TOTAL				6,029

CURB REMOVAL

STATION	OFFSET	LENGTH (FEET)
111+11	RT	46
112+25	RT	53
114+97	RT	33
115+57	RT	16
117+08	RT	12
118+50	RT	37
119+00	RT	8
123+00	LT	80
119+68	RT	119
127+89	RT	87
142+64	RT	46
214+30	LT	55
215+04	LT	90
226+15	RT	43
227+56	RT	48
228+62	LT	63
229+64	RT	59
301+10	RT	58
301+75	RT	56
TOTAL QUANTITY =		1009

COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.24

FROM STATION	FROM SIDE	TO STATION	TO SIDE	LENGTH (FEET)
ROUTE 31				
109+17	LT	119+00	LT	990
109+17	RT	119+00	RT	984
119+00	LT	131+00	LT	912
119+00	RT	131+00	RT	862
131+00	LT	138+58	LT	763
131+00	RT	139+35	RT	830
141+10	LT	143+00	LT	270
143+00	LT	144+00	LT	100
ROUTE 176				
206+11	LT	215+50	LT	916
206+11	RT	215+50	RT	946
215+50	LT	224+50	LT	844
215+50	RT	224+50	RT	973
224+50	LT	233+47	LT	898
224+50	RT	233+47	RT	886
TOTAL				11,174

COMBINATION CONCRETE CURB AND GUTTER TYPE M-2.12

FROM STATION	FROM SIDE	TO STATION	TO SIDE	LENGTH (FEET)
MEDIAN				
213+13	CL	215+50	CL	475
215+50	CL	216+50	CL	201
TOTAL				676

COMBINATION CONCRETE CURB AND GUTTER TYPE M-6.06

FROM STATION	FROM SIDE	TO STATION	TO SIDE	LENGTH (FEET)
ISLANDS				
122+96	RT	221+52	LT	95
219+06	RT	120+88	LT	65
TOTAL				160

PORTLAND CEMENT CONCRETE SIDEWALK, 5"

STATION FROM	STATION TO	SIDE	AREA (SQ FT)
ROUTE 31			
118+35	119+00	LT	239
119+00	120+75	LT	1233
122+00	125+70	LT	1299
137+00	139+00	LT	435
ROUTE 176			
211+00	212+00	LT	84
216+80	219+20	LT	2257
217+35	219+00	RT	492
232+00	232+00	RT	90
TOTAL			6,129

PCC PAVEMENT 9-3/4" (JOINTED)

FROM STATION	TO STATION	AREA (SQ. YD.)
ROUTE 31		
109+17.2	119+00	7,972
119+00	131+00	11,339
131+00	139+35	6,647
ROUTE 176		
206+10.77	215+50	6,441
215+50	219+56	4,426
220+77	224+50	4,284
224+50	233+46.7	6,328
TOTAL		47,437

CORRUGATED MEDIAN

STATION FROM	STATION TO	LENGTH (FEET)	AREA (SQ. FT.)
ROUTE 31			
120+33	120+63	36	263
126+35	126+80	45	429
ROUTE 176			
218+80	219+11	36	215
221+50	221+80	36	208
TOTAL QUANTITY =			1,115

CONCRETE MEDIAN SB-6.12

STATION FROM	STATION TO	LENGTH (FEET)	AREA (SQ. FT.)
ROUTE 31			
109+60	113+13	353	3650
116+22	119+00	278	2659
119+00	120+33	133	1067
123+55	126+35	280	2554
126+80	127+17	37	388
ROUTE 176			
213+10	213+20	10	79
216+50	218+80	230	1813
221+80	224+50	270	2194
224+50	225+62	112	1062
TOTAL QUANTITY =			15,466

CONCRETE MEDIAN SURFACE 4"

STATION FROM	STATION TO	LENGTH (FEET)	AREA (SQ. FT.)
ROUTE 31			
112+76	-	-	440
113+13	114+02	89	826
114+55	116+22	167	2314
119+00	-	-	286
127+17	128+97	180	2048
ROUTE 176			
225+62	227+32	170	1892
ISLAND			
120+88	121+19	-	214
122+58	122+91	-	431
STAGING			
95+00	109+17	-	9986
TOTAL QUANTITY =			18437

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

SCHEDULE OF QUANTITIES

SCALE: NTS
DATE: 02/10/2012
DRAWN BY: BCD
CHECKED BY: BDH

PLAN — SURVEYED, PLOTTED, GRADES CHECKED, ALIGNMENT CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, ALIGNMENT CHECKED, STRUCTURE NO(S).(PINS CHKD), NOTE BOOK, NO., BY, DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	23

STA. TO STA.

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

CONTRACT NO. 62537

STORM SEWER REMOVAL 8"

FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	LENGTH (FEET)	PIPE DIA. (INCH)	DEPTH TO INVERT (FEET)	TBF (CY)
ROUTE 31							
126+45	38' RT	126+41	42' RT	5	8	-	-
127+11	35' RT	127+02	40' RT	8	8	-	-
TERRA COTTA							
301+84	26' RT	302+00	32' RT	15	8	3.1	2.5
TOTAL				28			3

STORM SEWER REMOVAL 10"

FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	LENGTH (FEET)	PIPE DIA. (INCH)	DEPTH TO INVERT (FEET)	TBF (CY)
ROUTE 176							
211+67	40' LT	211+85	30' LT	18	10	2.88	2.9
221+19	7' RT	221+90	5' LT	71	10	3.95	18.1
TOTAL				89			21

STORM SEWER REMOVAL 12"

FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	LENGTH (FEET)	PIPE DIA. (INCH)	DEPTH TO INVERT (FEET)	TBF (CY)
ROUTE 31							
111+25	45' RT	111+32	51' RT	8	12	4.60	2.7
111+26	60' LT	111+26	50' LT	23	12	1.80	1.7
111+26	0' LT	111+26	40' LT	43	12	3.02	8.1
111+26	4' RT	111+25	40' RT	39	12	3.88	10.4
112+56	38' LT	112+59	38' RT	80	12	3.18	16.1
112+59	39' RT	112+72	51' RT	12	12	5.20	4.7
115+29	36' LT	115+29	36' RT	77	12	4.02	21.6
115+29	41' RT	115+29	49' RT	6	12	4.90	2.2
117+17	46' LT	117+17	41' LT	5	12	2.80	0.8
117+82	38' RT	117+82	40' RT	2	12	2.80	0.3
119+03	41' LT	119+03	42' LT	1	12	2.75	0.2
119+29	43' RT	119+30	43' RT	1	12	3.60	0.2
119+96	31' RT	119+96	40' RT	9	12	4.20	2.7
120+07	34' LT	120+07	42' LT	8	12	2.75	1.3
120+51	56' LT	120+77	56' LT	26	12	4.00	7.2
121+09	70' LT	121+31	70' LT	22	12	5.85	9.9
121+75	47' LT	124+96	46' LT	317	12	4.45	101.3
122+19	60' RT	122+32	49' RT	12	12	3.00	2.2
122+32	49' RT	122+43	39' RT	12	12	2.85	2.1
122+37	39' LT	122+32	49' RT	88	12	3.35	19.1
123+63	39' LT	123+63	33' RT	75	12	3.25	15.6
124+90	74' LT	124+99	46' LT	25	12	4.20	7.4
124+99	46' LT	125+96	44' LT	97	12	4.10	27.8
126+00	44' LT	126+82	37' LT	82	12	3.78	21.1
126+87	37' LT	129+75	32' LT	288	12	4.02	80.7
129+80	32' LT	130+34	34' LT	54	12	3.71	13.6
ROUTE 176							
214+09	32' LT	218+56	4' RT	442	12	3.10	85.9
217+27	19' LT	217+28	28' LT	5	12	4.30	1.5
217+28	28' LT	217+32	48' LT	20	12	5.50	8.3
217+98	68' LT	218+52	57' LT	48	12	4.70	16.4
218+52	57' LT	219+06	48' LT	48	12	4.75	16.7
221+17	8' RT	221+37	76' RT	68	12	3.55	16.1
221+17	8' RT	221+20	18' LT	27	12	4.40	8.5
TERRA COTTA							
302+37	19' RT	302+48	25' RT	8	12	3.30	1.7
302+46	22' LT	302+46	25' LT	3	12	2.60	0.4
302+46	17' LT	302+50	25' RT	42	12	3.95	11.5
302+48	27' LT	302+57	26' LT	9	12	1.60	0.5
302+51	25' RT	302+54	21' RT	4	12	1.98	0.4
TOTAL				2,136			549

GRATING FOR CONCRETE FLARED END SECTION 30"

STATION	OFFSET (FEET)	QUANTITY (EACH)
ROUTE 31		
147+23	51 LT	1
148+00	47 RT	1
ROUTE 176		
222+04	107 RT	1
TOTAL		3

STORM SEWER REMOVAL 15"

FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	LENGTH (FEET)	PIPE DIA. (INCH)	DEPTH TO INVERT (FEET)	TBF (CY)
ROUTE 31							
116+25	43' RT	120+09	32' RT	384	15	4.50	136.9
119+34	45' RT	120+57	48' RT	123	15	4.97	49.8
120+61	48' RT	122+32	49' RT	167	15	6.05	85.9
122+26	93' RT	122+32	49' RT	40	15	4.40	13.9
122+32	49' RT	123+47	34' RT	108	15	4.00	33.0
122+59	49' RT	122+63	69' RT	16	15	4.00	4.9
122+63	69' RT	123+28	94' RT	71	15	4.00	21.7
137+05	64' LT	137+71	65' LT	66	15	3.20	14.8
137+74	65' LT	138+12	67' LT	38	15	2.63	6.3
ROUTE 176							
210+59	38' LT	211+63	40' LT	104	15	3.10	22.2
211+67	40' LT	213+88	38' LT	221	15	3.10	47.3
213+88	38' LT	218+56	4' RT	464	15	3.10	99.2
213+89	39' RT	214+64	38' RT	75	15	3.20	16.8
216+89	50' RT	219+48	115' RT	259	15	6.38	141.8
216+89	50' RT	216+92	69' RT	15	15	5.75	7.3
219+22	18' RT	219+22	107' RT	89	15	6.07	46.0
TOTAL				2,240			748

STORM SEWER REMOVAL 18"

FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	LENGTH (FEET)	PIPE DIA. (INCH)	DEPTH TO INVERT (FEET)	TBF (CY)
ROUTE 31							
120+47	40' LT	120+60	45' RT	85	18	6.32	50.3
137+28	32' LT	141+44	30' RT	417	18	2.50	69.5
141+44	30' RT	141+61	37' RT	16	18	2.40	2.5
ROUTE 176							
214+67	38' RT	214+78	44' RT	11	18	3.20	2.7
219+15	6' RT	219+68	12' LT	54	18	4.50	21.0
TOTAL				583			146

STORM SEWER REMOVAL 21"

FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	LENGTH (FEET)	PIPE DIA. (INCH)	DEPTH TO INVERT (FEET)	TBF (CY)
ROUTE 31							
120+11	31' RT	120+61	48' RT	48	21	4.88	22.4
TOTAL				48			22

STORM SEWER REMOVAL 24"

FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	LENGTH (FEET)	PIPE DIA. (INCH)	DEPTH TO INVERT (FEET)	TBF (CY)
ROUTE 31							
113+99	50' LT	114+06	50' LT	7	24	4.00	2.7
114+10	50' LT	114+70	49' LT	60	24	4.00	23.3
115+31	51' RT	116+20	43' RT	89	24	5.00	46.1
116+55	48' LT	117+16	48' LT	61	24	2.20	9.5
117+20	48' LT	117+23	48' LT	3	24	3.10	0.8
118+20	47' LT	119+00	45' LT	80	24	3.50	25.9
119+05	45' LT	120+38	41' LT	133	24	3.80	48.3
120+44	41' LT	120+45	42' LT	1	24	5.35	0.6
123+49	33' RT	125+00	46' RT	152	24	3.16	42.5
TERRA COTTA							
300+47	25' RT	302+48	27' RT	198	24	5.30	110.4
302+52	27' RT	303+41	25' RT	110	24	7.76	96.3
TOTAL				894			406

PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND- SIZE 24"

STATION	OFFSET (FEET)	QUANTITY (EACH)
ROUTE 31		
136+72	58 RT	1
TOTAL		1

REMOVAL OF EXISTING STRUCTURES

STATION	SIDE	CONCRETE VOLUME (CUBIC YARDS)	QUANTITY (EACH)
ROUTE 176			
219+00	RT	8.4	1
TOTAL			1

VALVE VAULTS TO BE ADJUSTED

STATION	OFFSET (FEET)	QUANTITY (EACH)
ROUTE 31		
127+50	58 LT	1
143+32	33 RT	1
ROUTE 176		
217+29	68 RT	1
TOTAL		3

VALVE VAULTS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID

STATION	OFFSET (FEET)	QUANTITY (EACH)
ROUTE 31		
137+44	34 RT	1
137+53	35 RT	1
ROUTE 176		
214+50	40 LT	1
TOTAL		3

FRAME AND GRATES TO BE ADJUSTED

STATION	OFFSET (FEET)	QUANTITY (EACH)
NOMINAL	-	1
TOTAL		1

FRAMES AND LIDS TO BE ADJUSTED

STATION	OFFSET (FEET)	QUANTITY(EACH)
ROUTE 31		
114+08	50 LT	1
TOTAL		1

FIRE HYDRANTS TO BE ADJUSTED

STATION	OFFSET (FEET)	QUANTITY (EACH)
ROUTE 31		
118+16	60 LT	1
146+32	34 RT	1
ROUTE 176		
217+28	73 RT	1
TOTAL		3

FIRE HYDRANTS TO BE REMOVED

STATION	OFFSET (FEET)	QUANTITY (EACH)
ROUTE 176		
206+73	24 LT	1
210+22	28 LT	1
TOTAL		2

FIRE HYDRANTS

STATION	OFFSET (FEET)	QUANTITY (EACH)
ROUTE 176		
206+73	24 LT	1
210+22	28 LT	1
TOTAL		2

FIRE HYDRANTS TO BE MOVED

STATION	SIDE	QUANTITY (EACH)
ROUTE 31		
122+77	LT	1
126+47	LT	1
129+04	RT	1
132+53	RT	1
135+88	RT	1
139+17	RT	1
142+92	RT	1
ROUTE 176		
213+93	LT	1
227+30	LT	1
TOTAL		9

MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID

STATION	OFFSET (FEET)	QUANTITY (EACH)
ROUTE 31		
119+04	26 LT	1
130+73	32 LT	1
134+02	30 LT	1
137+88	32 LT	1
ROUTE 176		
206+53	45 RT	1
207+73	30 RT	1
210+92	29 RT	1
213+92	33 RT	1
214+27	59 RT	1
217+38	52 LT	1
219+53	22 LT	1
TOTAL		11

MANHOLES TO BE RECONSTRUCTED

STATION	OFFSET (FEET)	QUANTITY (EACH)
ROUTE 31		
115+29	51 RT	1
ROUTE 176		
217+14	71 RT	1
TOTAL		2

PIPE CULVERTS TEMPORARY

STA.	O/S	LENGTH (FOOT)	MATERIAL	TYPE	DIA (IN)
206+53	37 RT	94	P CUL CL D TEMP	1	12
209+69	34 RT	50	P CUL CL D TEMP	1	15
212+64	33 RT	105	P CUL CL D TEMP	1	15
226+15	26 RT	78	P CUL CL D TEMP	1	12
227+57	27 RT	60	P CUL CL D TEMP	1	12
229+67	27 RT	71	P CUL CL D TEMP	1	15
230+54	27 RT	30	P CUL CL D TEMP	1	12
232+06	27 RT	27	P CUL CL D TEMP	1	12
233+17	27 RT	30	P CUL CL D TEMP	1	12
233+58	27 RT	27	P CUL CL D TEMP	1	12
TOTALS				12"	346
				15"	226

GRATING FOR CONCRETE FLARED END SECTION 36"

STATION	OFFSET (FEET)	QUANTITY (EACH)
RTE 31		
120+79	111 RT	1
RTE 176		
221+65	108 RT	1
TERRA COTTA		
303+42	29 RT	1
TOTAL		3

REMOVING MANHOLES

STATION	OFFSET (FEET)	QUANTITY (EACH)
ROUTE 31		
116+23	43 RT	1
117+18	48 LT	1
119+33	46 RT	1
120+11	31 RT	1
120+41	41 LT	1
120+46	41 LT	1
120+61	48 RT	1
121+32	79 LT	1
122+26	93 RT	1
122+37	45 RT	1
122+63	69 RT	1
122+63	45 RT	1
123+47	34 RT	1
ROUTE 176		
214+67	38 RT	1
216+89	50 RT	1
217+28	28 LT	1
218+56	4 RT	1
TOTAL		17

REMOVING INLETS

STATION	OFFSET (FEET)	QUANTITY (EACH)
ROUTE 31		
126+45	38 RT	1
127+11	35 RT	1
137+73	65 LT	1
138+13	67 LT	1
138+74	33 RT	1
139+06	32 RT	1
139+31	33 RT	1
139+64	32 RT	1
140+66	32 RT	1
141+44	30 RT	1
ROUTE 176		
217+27	19 LT	1
218+46	5 RT	1
219+12	100 RT	1
219+28	20 RT	1
220+84	4 LT	1
TOTAL		15

POROUS GRANULAR EMBANKMENT, SUBGRADE

LOCATION	DEPTH (INCH)	VOLUME (CU YD)
ROUTE 31		
STA. 109+17 TO STA. 113+00	6	580
STA. 135+00 TO STA. 137+75	6	374
STA. 137+75 TO STA. 139+35	6	306
ROUTE 176		
STA. 235+00 TO STA. 237+50	12	369
TOTAL QUANTITY =		1,629

VALVE VAULTS TO BE REMOVED

STATION	SIDE	QUANTITY (EACH)
ROUTE 31		
127+60	RT	1
ROUTE 176		
206+25	LT	1
206+95	LT	1
208+95	LT	1
211+65	LT	1
TOTAL		5

INLET AND PIPE PROTECTION

STATION	SIDE	QUANTITY (EACH)
STAGE 1		
113+98	LT	1
114+71	LT	1
117+23	LT	1
125+00	RT	1
127+59	RT	2
128+05	RT	1
129+78	RT	1
130+22	LT	1
131+37	RT	1
134+03	RT	1
136+73	LT	1
139+02	LT	1
141+62	RT	1
142+99	RT	1
147+23	RT	1
205+91	RT	1
206+07	RT	1
209+45	RT	1
212+05	RT	1
213+88	RT	1
214+79	RT	1
216+17	RT	1
226+52	RT	1
227+98	RT	1
233+30	RT	1
233+70	RT	1
234+70	RT	1
236+22	RT	1
237+38	RT	1
301+10	RT	1
301+95	LT	1
302+22	LT	1
302+30	LT	1
302+43	RT	1
309+10	RT	1
STAGE 2		
148+04	RT	1
235+27	LT	1
239+60	LT	1
STAGE 3		
TOTAL		39

DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED

STATION	OFFSET (FEET)	QUANTITY (EACH)
ROUTE 31		
123+22	67 LT	1
124+08	68 LT	1
125+04	63 LT	1
ROUTE 176		
214+65	36 LT	1
TOTAL		4

REMOVE INLET BOX

STATION	SIDE	QUANTITY (EACH)
ROUTE 31		
113+95	LT	1
114+76	LT	1
136+72	LT	1
TOTAL		3

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

SCHEDULE OF QUANTITIES

SCALE: NTS
DATE: 02/10/2012

DRAWN BY: BCD
CHECKED BY: BDH

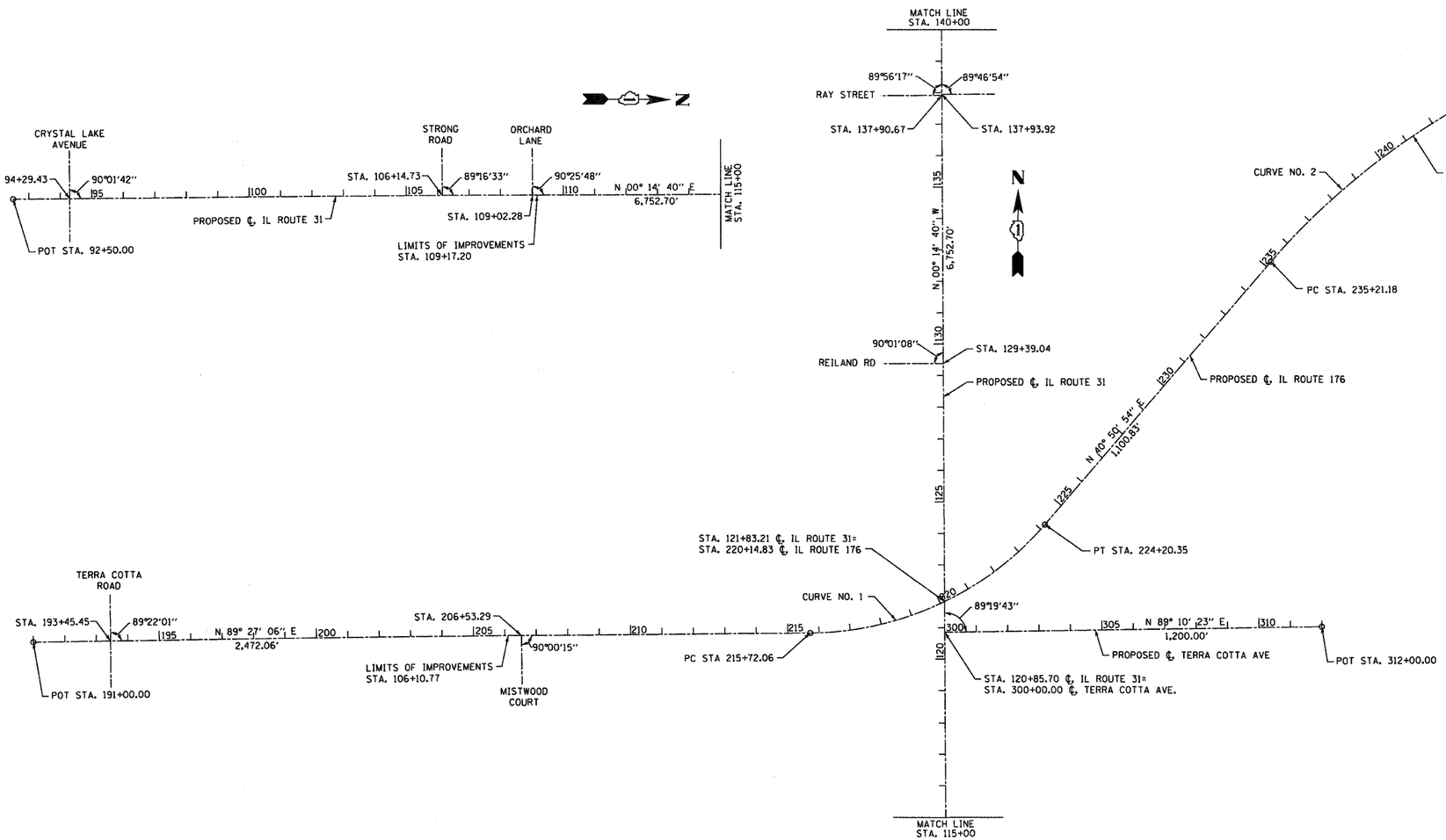
PLAN — NOTE BOOK NO. ____ — SURVEYED, PLOTTED, ALIGNMENT CHECKED, R.T. OF WAY CHECKED, CADD FILE NAME — BY — DATE

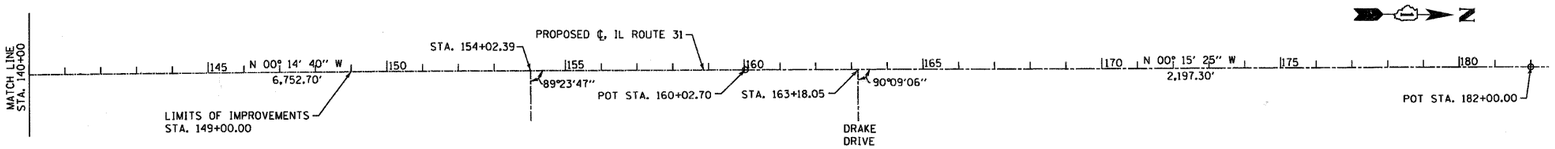
PROFILE — NOTE BOOK NO. ____ — SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHK'D — BY — DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	24
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

PROPOSED CURVE NO.	△	R	T	L	E	SE	P.O.T./PI STATION	P.O.T./PI COORDINATE NORTHING	P.O.T./PI COORDINATE EASTING	PC STATION	P.C. COORDINATES NORTHING	P.C. COORDINATES EASTING	PT STATION	P.T. COORDINATES NORTHING	P.T. COORDINATES EASTING
IL RTE. 31							92+50.00	2,030,494.0146	996,952.1017						
							160+02.70	2,037,246.6490	996,923.2910						
							182+00.00	2,039,443.9310	996,913.4380						
IL RTE. 176															
							191+00.00	2,033,303.0143	994,040.1367						
1	48°36'12"	1,000.00'	451.55'	848.29'	97.22'	N.C.	220+23.62	2,033,330.9935	996,963.6180	215+72.06	2,033,326.6721	996,512.0863	224+20.35	2,033,672.5674	997,258.9599
2	26°27'58"	2,272.96'	534.50'	1,049.93'	62.00'	N.C.	240+55.68	2,034,909.6046	998,328.5640	235+21.18	2,034,505.2843	997,978.9685	245+71.11	2,035,115.7477	998,821.7141
							254+00.00	2,035,435.4286	999,586.4774						
TERRA COTTA															
							300+00.00	2,033,329.6852	996,940.0583						
							312+00.00	2,033,347.0067	998,139.9333						





BENCH MARK SUMMARY

BM#1: NORTHEAST FLANGE BOLT ON FIRE HYDRANT.
FIRE HYDRANT LOCATED ALONG IL-31 NEAR STA. 110+83 LT.
ELEVATION = 876.06

BM#2: SOUTHWEST FLANGE BOLT ON FIRE HYDRANT.
FIRE HYDRANT LOCATED ALONG IL-31 NEAR STA. 126+46 LT.
ELEVATION = 886.38

BM#3: SOUTHEAST FLANGE BOLT ON FIRE HYDRANT.
FIRE HYDRANT LOCATED ALONG IL-31 NEAR STA. 142+92 RT.
ELEVATION = 905.60

BM#4 R.R. SPIKE 4' ABOVE GROUND IN NORTH FACE OF POWER POLE.
POWER POLE LOCATED ALONG IL-176 NEAR STA. 207+03 RT.
ELEVATION = 894.13

BM#5 CUT "X" IN TOP OF CONCRETE CURB AT THE SOUTH DRIVEWAY RETURN TO TOM CROSSTOWN SERVICE.
CUT CROSS LOCATED ALONG IL-176 NEAR STA. 225+99 RT.
ELEVATION = 895.23

NOTE:
1. SEE SHEET NO. 145 FOR CENTERLINE TIES.

2. SHOULD TIE POINTS BE DESTROYED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING THE TIE POINTS, WHICH SHALL BE INCLUDED IN THE CONTRACT COST PER LUMP SUM OF CONTRUCTION LAYOUT.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31 AND IL RTE 176

ALIGNMENT, CURVE DATA AND BENCH MARKS

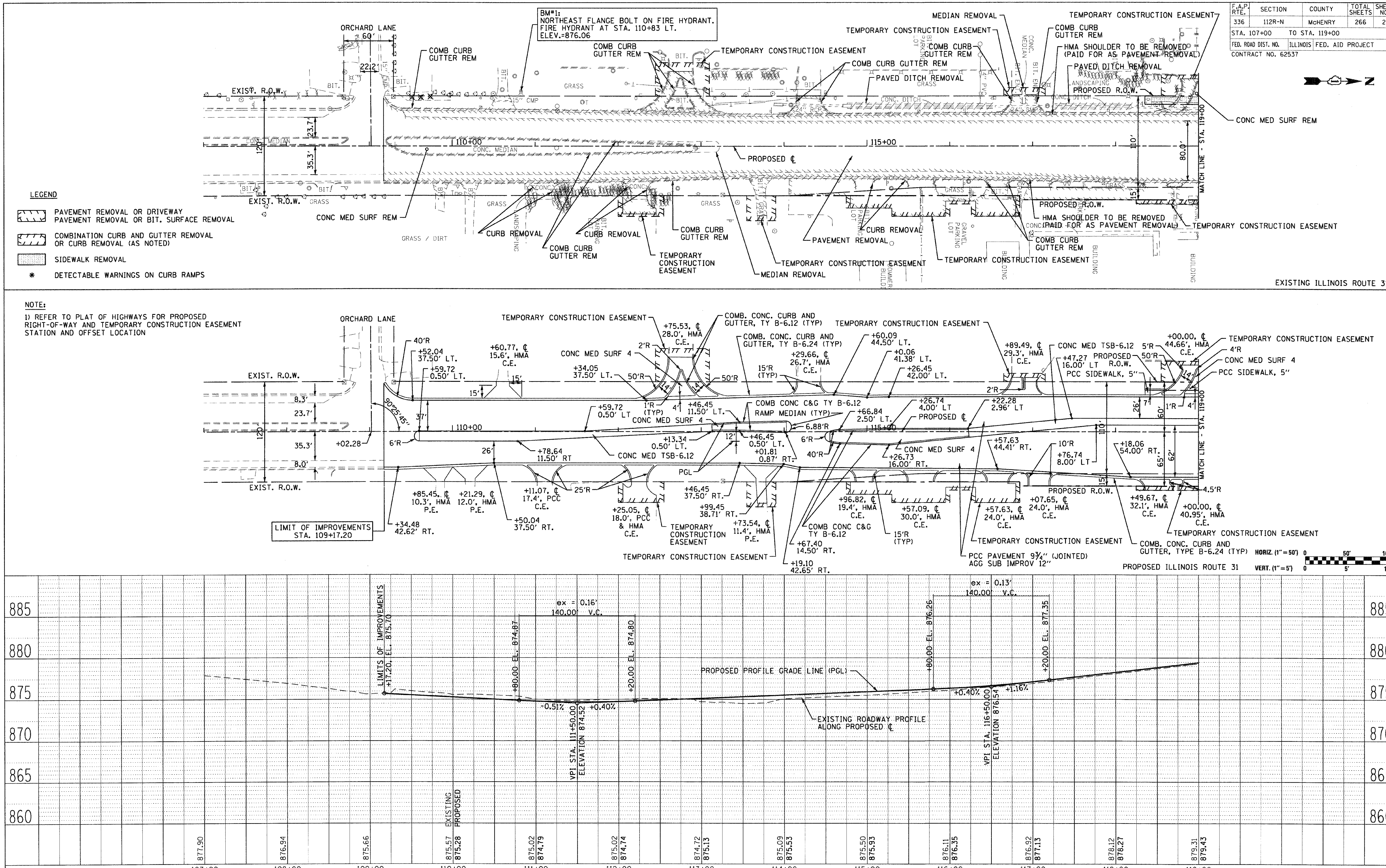
0 100' 200' 300'
1" = 200'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: BDH

PLAN — SURVEYED, PLOTTED, GRADES CHECKED, ALIGNMENT CHECKED, NOTE BOOK, NO., CADD FILE NAME, BY, DATE, 3Y

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, ALIGNMENT CHECKED, NOTE BOOK, NO., STRUCTURE NO(TAYNS CHKD, BY, DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	25
STA. 107+00	TO STA. 119+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62537				



BM#1:
NORTHEAST FLANGE BOLT ON FIRE HYDRANT.
FIRE HYDRANT AT STA. 110+83 LT.
ELEV.=876.06
ORCHARD LANE
EXIST. R.O.W.
CONC. MEDIAN
PROPOSED ℄
MATCH LINE - STA. 119+00
LEGEND
PAVEMENT REMOVAL OR DRIVEWAY PAVEMENT REMOVAL OR BIT. SURFACE REMOVAL
COMBINATION CURB AND GUTTER REMOVAL OR CURB REMOVAL (AS NOTED)
SIDEWALK REMOVAL
* DETECTABLE WARNINGS ON CURB RAMPS
COMB CURB GUTTER REM
CONC MED SURF REM
CURB REMOVAL
TEMPORARY CONSTRUCTION EASEMENT
MEDIAN REMOVAL
PAVEMENT REMOVAL
PAVED DITCH REMOVAL
HMA SHOULDER TO BE REMOVED (PAID FOR AS PAVEMENT REMOVAL)
PROPOSED R.O.W.
EXISTING ILLINOIS ROUTE 31
NOTE:
1) REFER TO PLAT OF HIGHWAYS FOR PROPOSED RIGHT-OF-WAY AND TEMPORARY CONSTRUCTION EASEMENT STATION AND OFFSET LOCATION
LIMIT OF IMPROVEMENTS STA. 109+17.20
COMB. CONC. CURB AND GUTTER, TY B-6.12 (TYP)
COMB. CONC. CURB AND GUTTER, TY B-6.24 (TYP)
CONC MED SURF 4
CONC MED TSB-6.12
PCC SIDEWALK, 5"
PCC PAVEMENT 9¾" (JOINTED) AGG SUB IMPROV 12"
PROPOSED ILLINOIS ROUTE 31
HORIZ. (1" = 50') VERT. (1" = 5')
ex = 0.16' 140.00' V.C.
ex = 0.13' 140.00' V.C.
LIMITS OF IMPROVEMENTS +17.20, EL. 875.70
+80.00 EL. 874.87
+20.00 EL. 874.80
+80.00 EL. 876.26
+20.00 EL. 877.35
VPI STA. 111+50.00 ELEVATION 874.52
VPI STA. 116+50.00 ELEVATION 876.54
-0.51% +0.40% +0.40% +1.16%
PROPOSED PROFILE GRADE LINE (PGL)
EXISTING ROADWAY PROFILE ALONG PROPOSED ℄
EXISTING PROPOSED
877.90 876.94 875.66 875.57 875.28 875.02 874.79 875.02 874.74 874.72 875.13 875.09 875.53 875.50 875.93 876.11 876.35 876.92 877.13 878.12 878.27 879.31 879.43
107+00 108+00 109+00 110+00 111+00 112+00 113+00 114+00 115+00 116+00 117+00 118+00 119+00
885 880 875 870 865 860

PLAN AND PROFILE IL. RTE. 31 STA. 107+00 TO STA. 119+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	26
STA. 119+00	TO STA. 131+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

BM#2:
SOUTHWEST FLANGE BOLT ON FIRE HYDRANT.
FIRE HYDRANT AT STA. 126+46 LT.
ELEV.=886.38

LEGEND

- PAVEMENT REMOVAL OR DRIVEWAY PAVEMENT REMOVAL OR BIT. SURFACE REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL OR CURB REMOVAL (AS NOTED)
- SIDEWALK REMOVAL
- * DETECTABLE WARNINGS ON CURB RAMPS

NOTE:
1) REFER TO PLAT OF HIGHWAYS FOR PROPOSED RIGHT-OF-WAY AND TEMPORARY CONSTRUCTION EASEMENT STATION AND OFFSET LOCATION

PROFILE
SURVEYED
PLOTTED
DRAWN
CHECKED
R.M. NOTED
STRUCTURE NO(AYNS OFFD
NOTE BOOK
NO.

PLAN
DATE
BY
SURVEYED
PLOTTED
DRAWN
CHECKED
R.O.W. CHECKED
PLAT OF HWY CHECKED
CADD FILE NAME

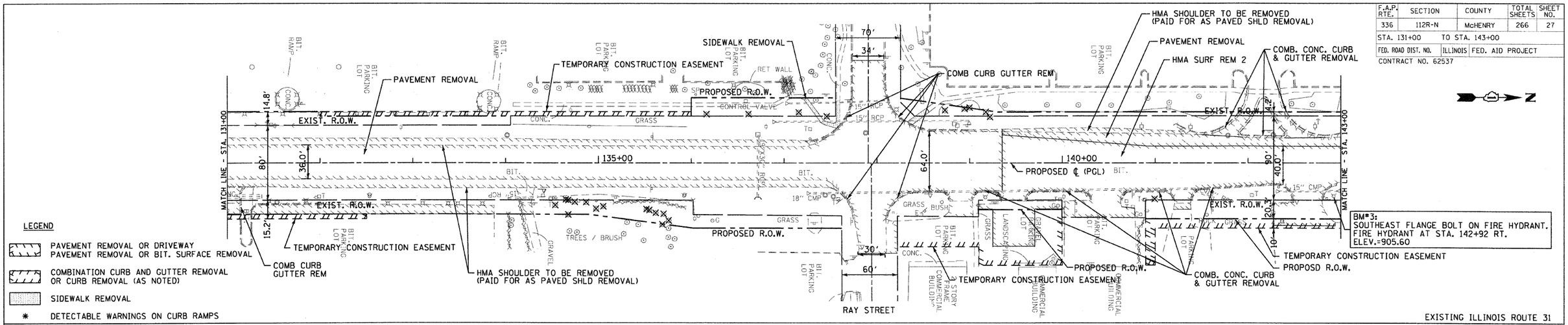
PROPOSED ILLINOIS ROUTE 31

HORIZ. (1"=50') 0 50' 100'
VERT. (1"=5') 0 5' 10'

PLAN AND PROFILE IL. RTE. 31 STA. 119+00 TO STA. 131+00

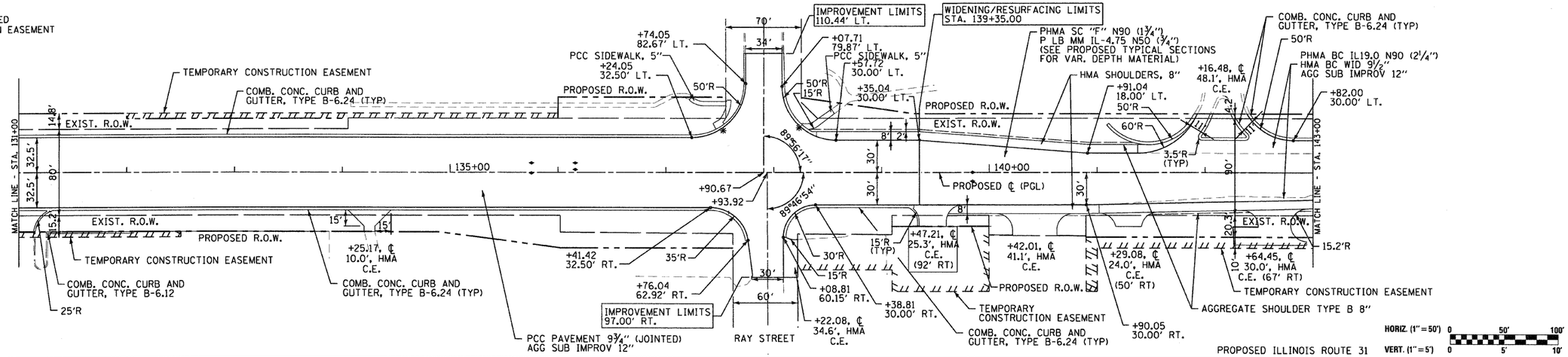
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	27
STA. 131+00	TO STA. 143+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62537				

PLAN — BY | DATE | SURVEYED | PLOTTED | GRADES CHECKED | ALIGNMENT CHECKED | NOTE BOOK | PLANS PREPARED | NO. | CADD FILE NAME

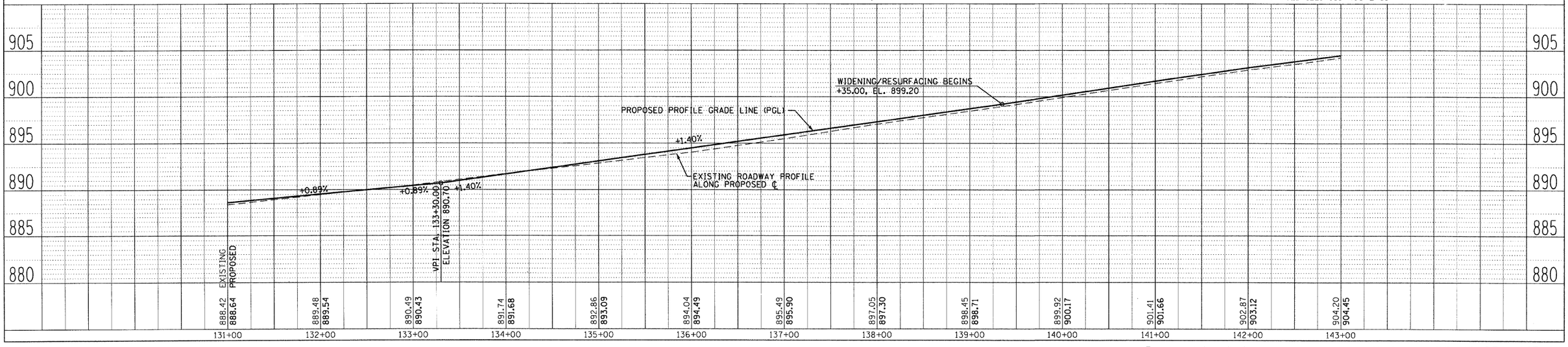


NOTE:

1) REFER TO PLAT OF HIGHWAYS FOR PROPOSED RIGHT-OF-WAY AND TEMPORARY CONSTRUCTION EASEMENT STATION AND OFFSET LOCATION

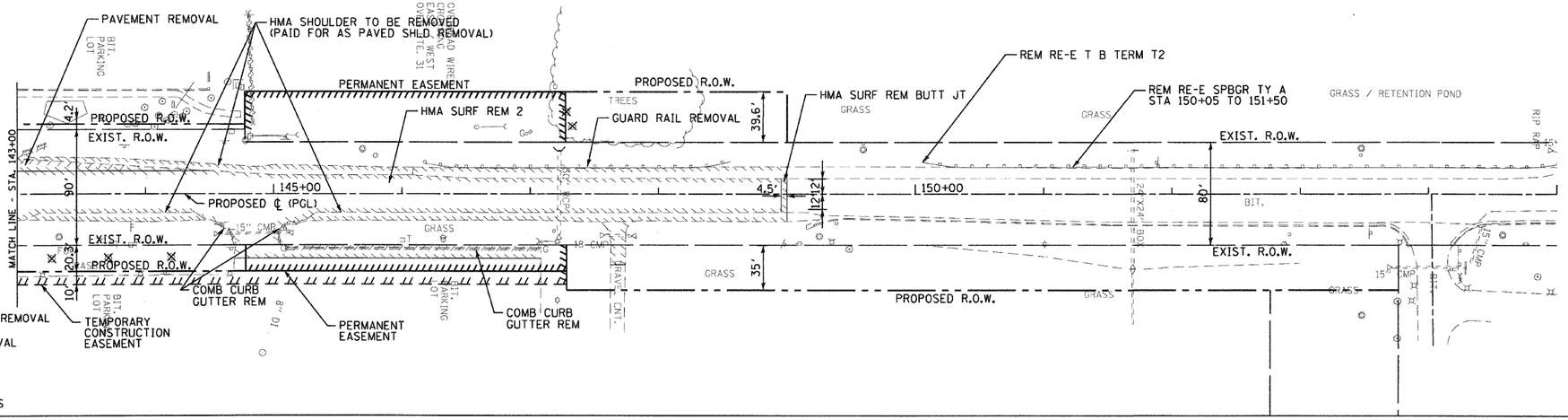


PROFILE — BY | DATE | SURVEYED | PLOTTED | GRADES CHECKED | ALIGNMENT CHECKED | NOTE BOOK | PLANS PREPARED | NO. | STRUCTURE NO(S)/ITMS OTHD



PLAN AND PROFILE IL. RTE. 31 STA. 131+00 TO STA. 143+00

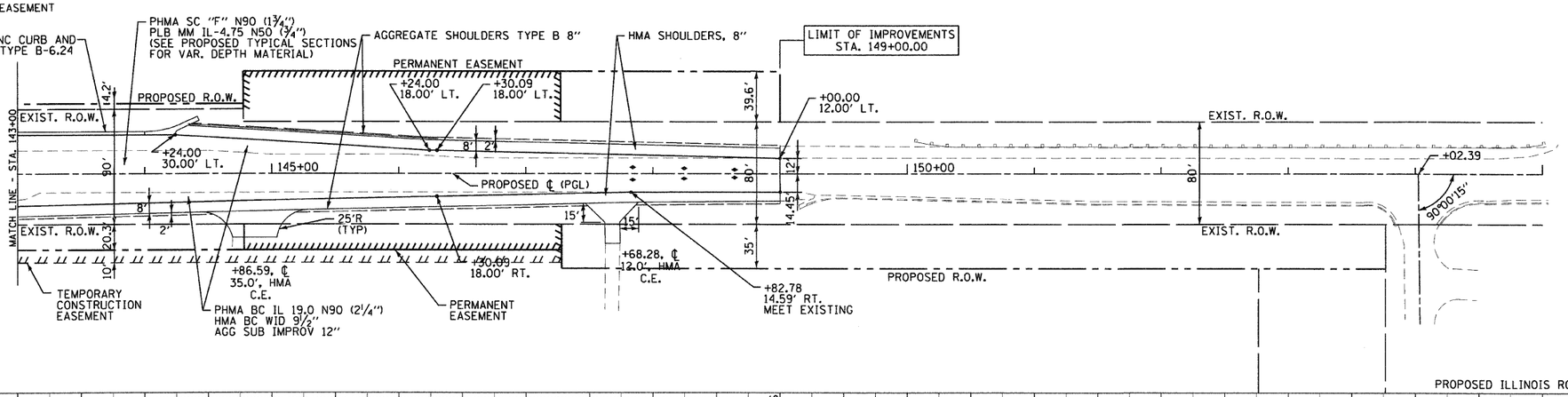
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	28
STA. 143+00	TO STA. 155+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62537				



EXISTING ILLINOIS ROUTE 31

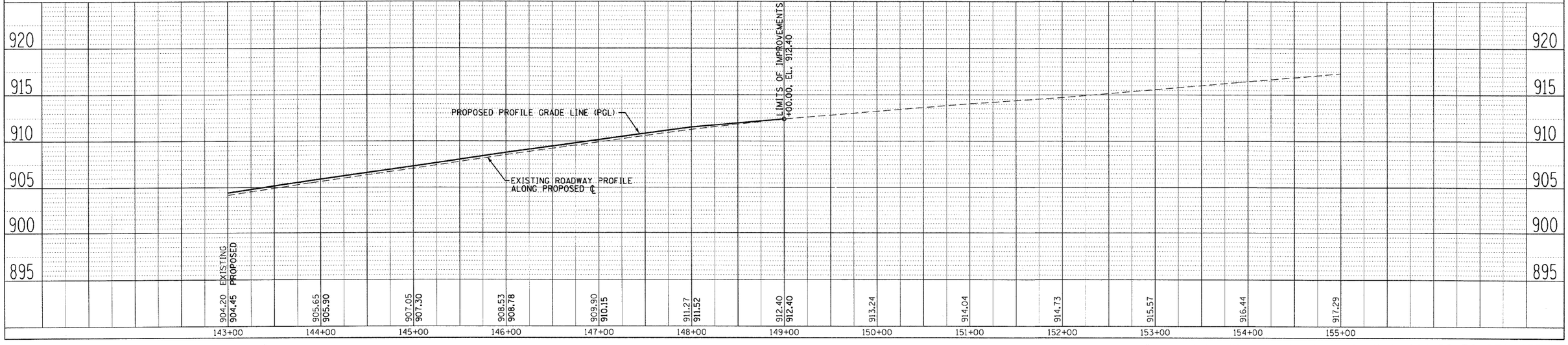
NOTE:

1) REFER TO PLAT OF HIGHWAYS FOR PROPOSED RIGHT-OF-WAY AND TEMPORARY CONSTRUCTION EASEMENT STATION AND OFFSET LOCATION



PROPOSED ILLINOIS ROUTE 31

HORIZ. (1" = 50') 0 50' 100'
VERT. (1" = 5') 0 5' 10'



PLAN AND PROFILE IL. RTE. 31 STA. 143+00 TO STA. 155+00

PLAN — BY | DATE
SURVEYED
PLOTTED
ALIGNMENT CHECKED
GRADES CHECKED
NOTE BOOK
NO.
CADD FILE NAME

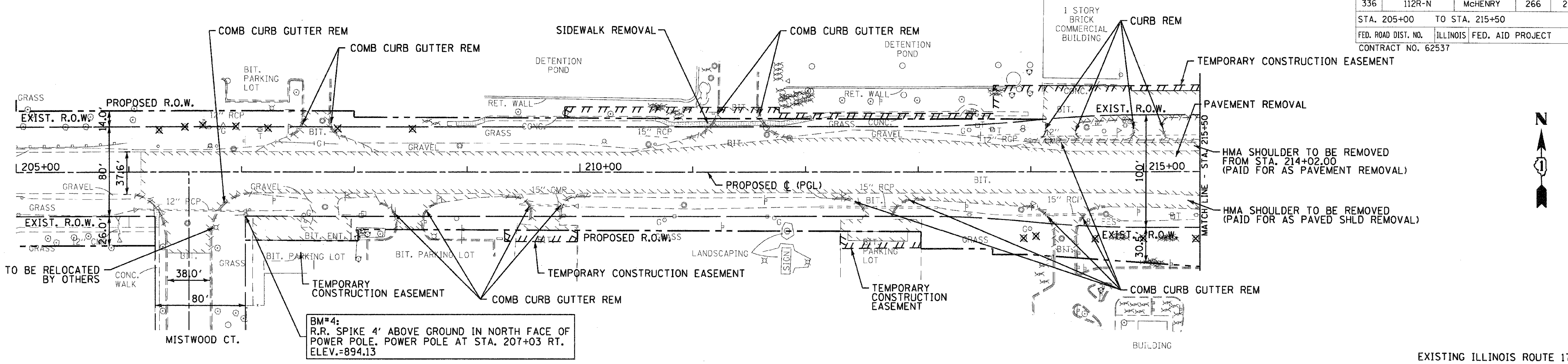
PROFILE — BY | DATE
SURVEYED
PLOTTED
GRADES CHECKED
ALIGNMENT CHECKED
NOTE BOOK
NO.
STRUCTURE NOTATIONS CHKD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	29

STA. 205+00 TO STA. 215+50

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

CONTRACT NO. 62537

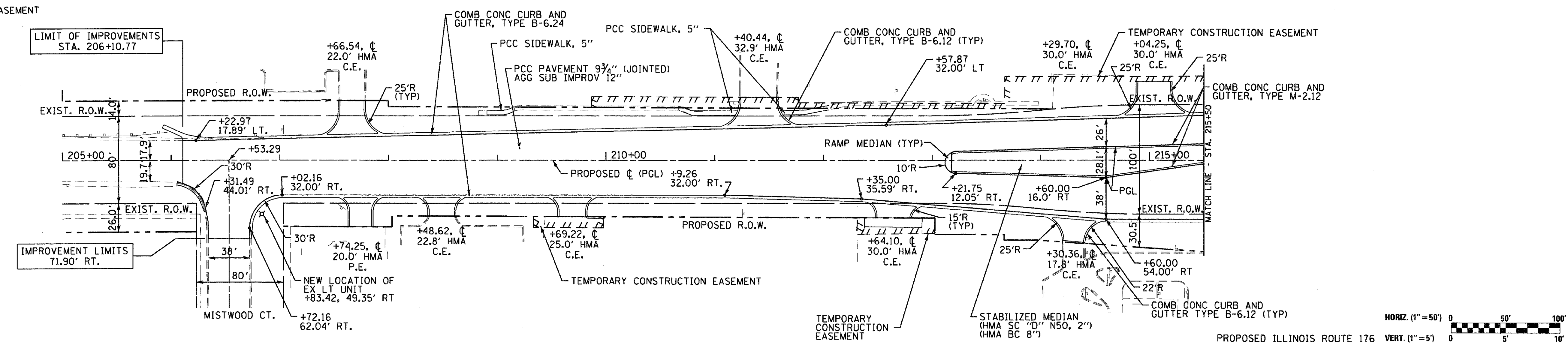


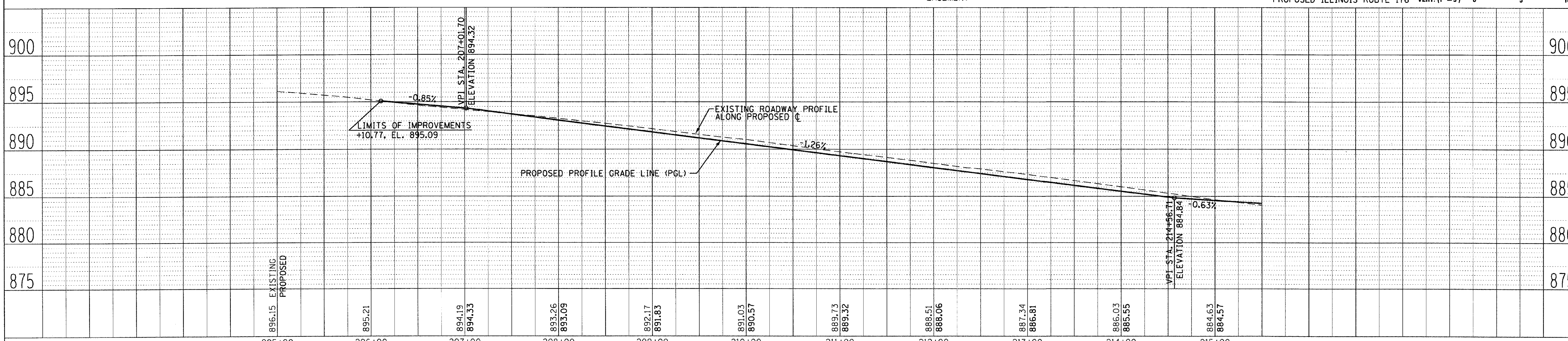
LEGEND

- PAVEMENT REMOVAL OR DRIVEWAY PAVEMENT REMOVAL OR BIT. SURFACE REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL OR CURB REMOVAL (AS NOTED)
- SIDEWALK REMOVAL
- * DETECTABLE WARNINGS ON CURB RAMPS

NOTE:

1) REFER TO PLAT OF HIGHWAYS FOR PROPOSED RIGHT-OF-WAY AND TEMPORARY CONSTRUCTION EASEMENT STATION AND OFFSET LOCATION

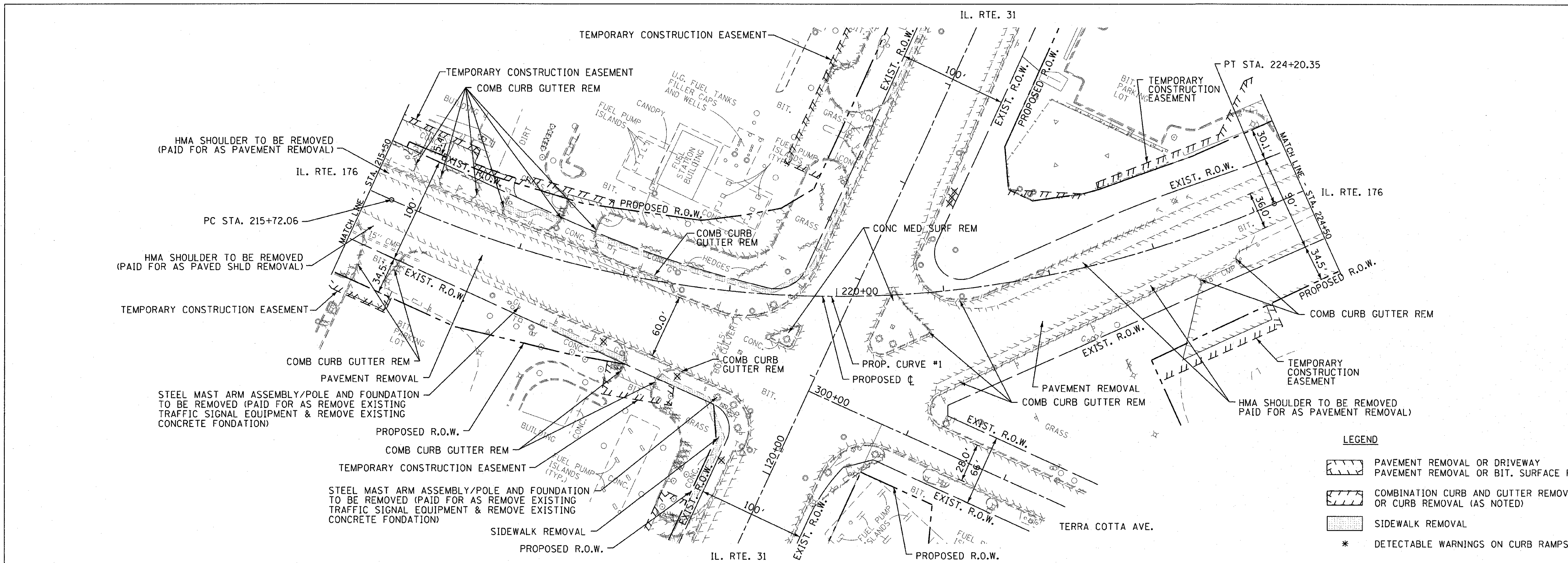




PLAN AND PROFILE IL. RTE. 176 STA. 205+00 TO STA. 215+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	30
STA. 215+50 TO STA. 224+50				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

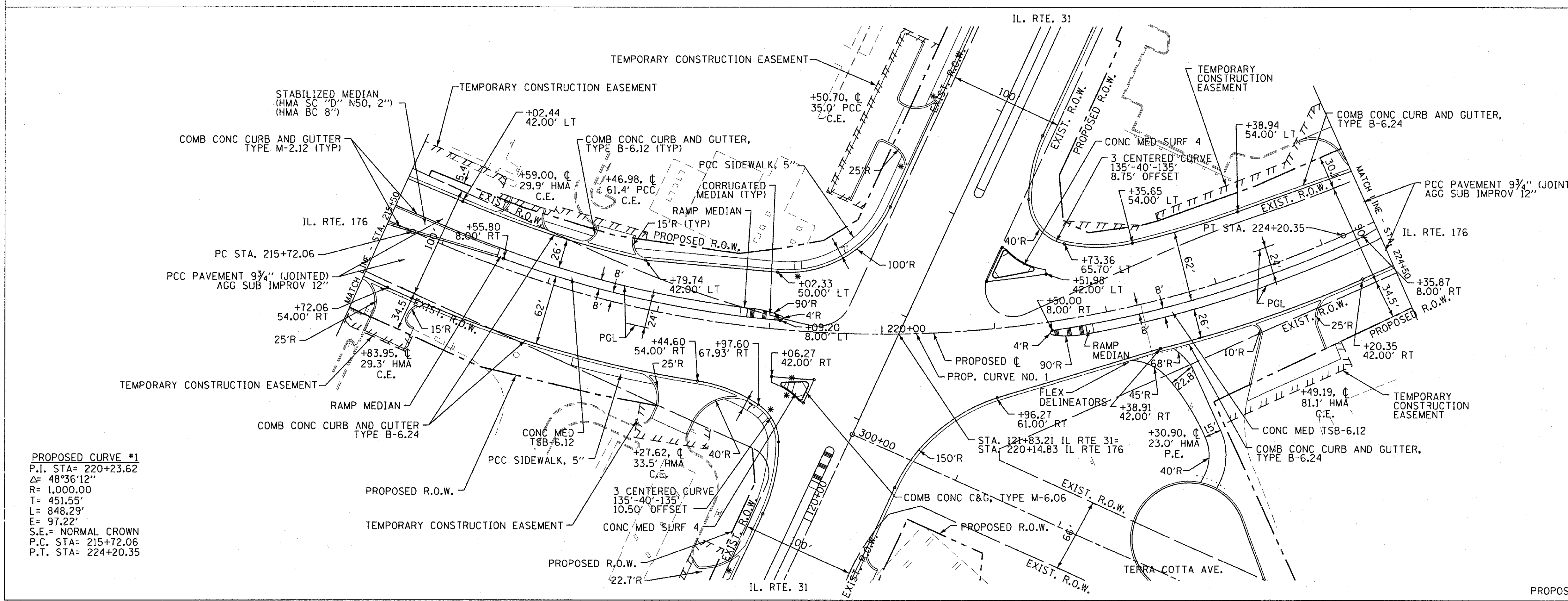
CONTRACT NO. 62537



LEGEND

- PAVEMENT REMOVAL OR DRIVEWAY PAVEMENT REMOVAL OR BIT. SURFACE REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL OR CURB REMOVAL (AS NOTED)
- SIDEWALK REMOVAL
- * DETECTABLE WARNINGS ON CURB RAMPS

EXISTING ILLINOIS ROUTE 176



NOTE:

1) REFER TO PLAT OF HIGHWAYS FOR PROPOSED RIGHT-OF-WAY AND TEMPORARY CONSTRUCTION EASEMENT STATION AND OFFSET LOCATION

PROPOSED CURVE #1

P.I. STA= 220+23.62
Δ= 48°36'12"
R= 1,000.00
T= 451.55'
L= 848.29'
E= 97.22'
S.E.= NORMAL CROWN
P.C. STA= 215+72.06
P.T. STA= 224+20.35

HORIZ. (1"=50') 0 50' 100'
VERT. (1"=5') 0 5' 10'

PROPOSED ILLINOIS ROUTE 176

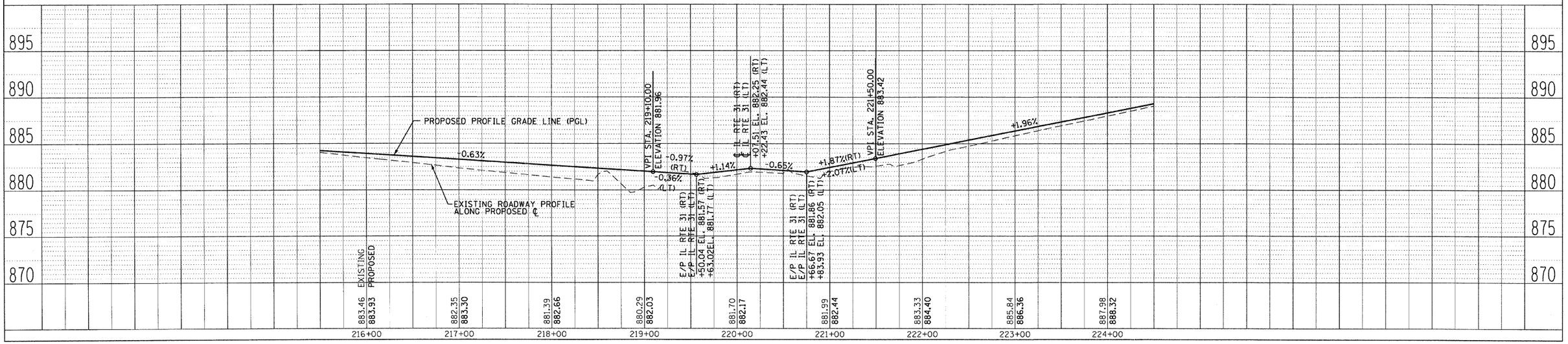
PLAN IL. RTE. 176 STA. 215+50 TO STA. 224+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	31
STA. 215+50	TO STA. 224+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62537				

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
CADD FILE NAME
BY
DATE
NOTE BOOK
NO.

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
ALIGNMENT CHKD
STRUCTURE NO(S).
BY
DATE
NOTE BOOK
NO.

HORIZ. (1" = 50') 0 50' 100'
VERT. (1" = 5') 0 5' 10'



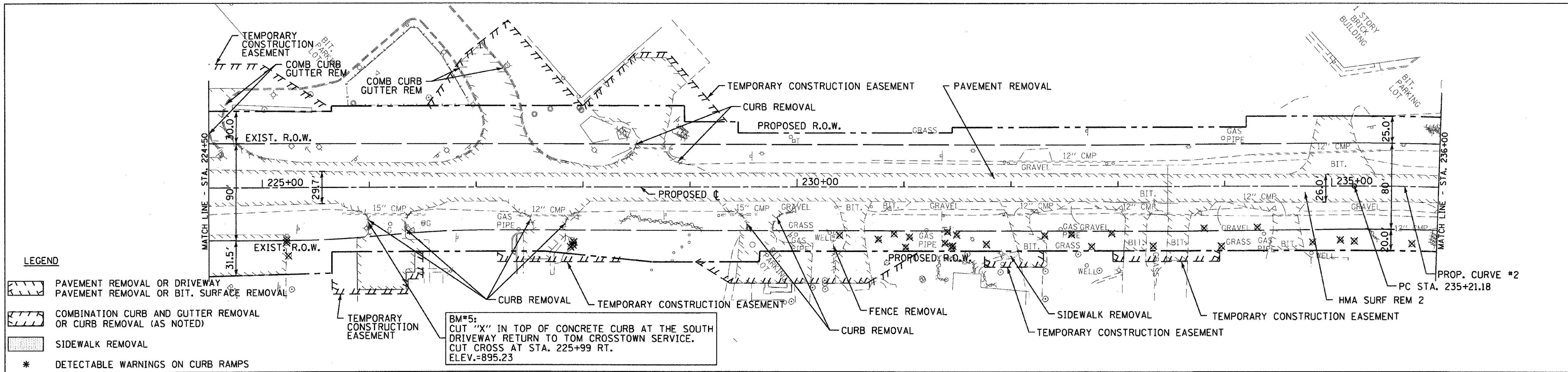
PROFILE IL. RTE. 176 STA. 215+50 TO STA. 224+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	32

STA. 224+50 TO STA. 236+00

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

CONTRACT NO. 62537

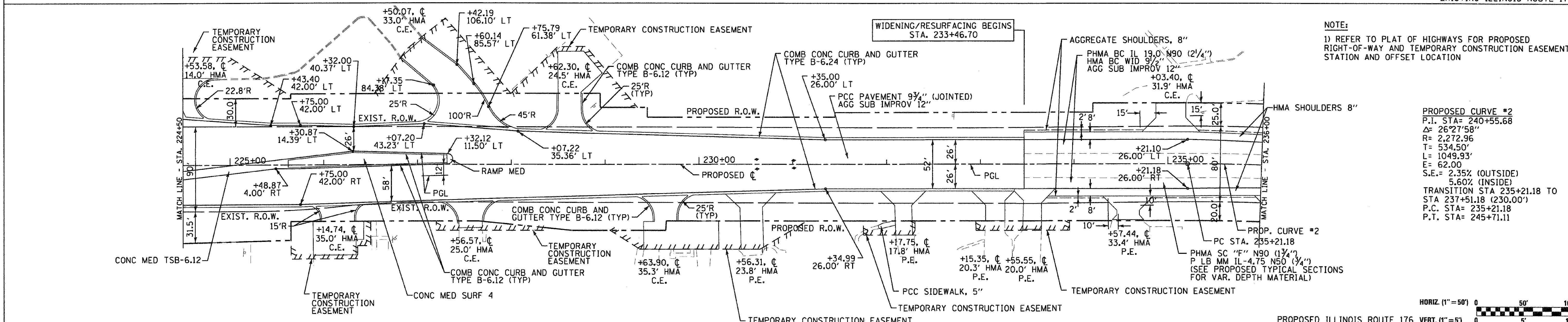


LEGEND

- PAVEMENT REMOVAL OR DRIVEWAY PAVEMENT REMOVAL OR BIT. SURFACE REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL OR CURB REMOVAL (AS NOTED)
- SIDEWALK REMOVAL
- * DETECTABLE WARNINGS ON CURB RAMPS

BM#5:
CUT "X" IN TOP OF CONCRETE CURB AT THE SOUTH DRIVEWAY RETURN TO TOM CROSSTOWN SERVICE.
CUT CROSS AT STA. 225+99 RT.
ELEV.=895.23

EXISTING ILLINOIS ROUTE 176

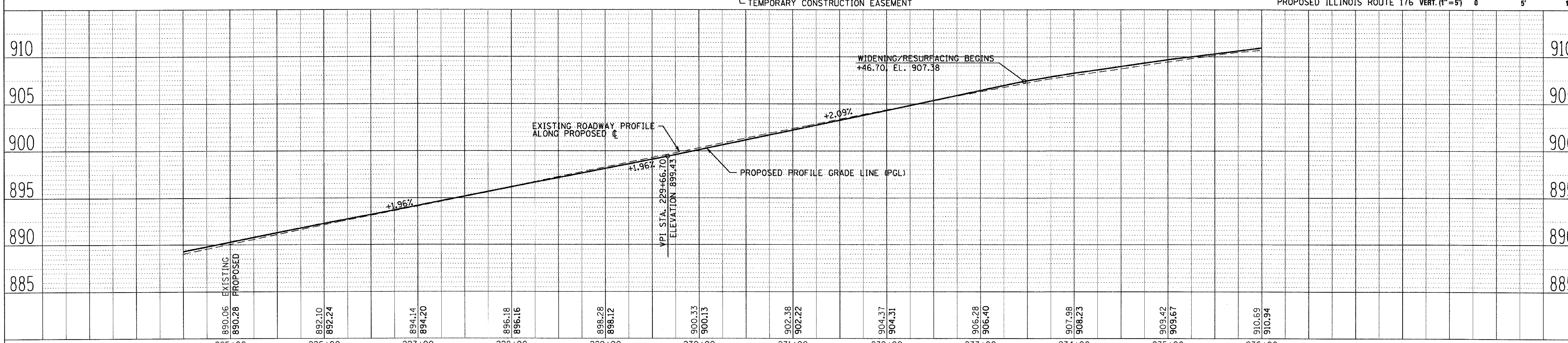


NOTE:
1) REFER TO PLAT OF HIGHWAYS FOR PROPOSED RIGHT-OF-WAY AND TEMPORARY CONSTRUCTION EASEMENT STATION AND OFFSET LOCATION

PROPOSED CURVE #2
P.I. STA= 240+55.68
Δ= 26°27'58"
R= 2,272.96
T= 534.50'
L= 1049.93'
E= 62.00
S.E.= 2.35% (OUTSIDE) 5.60% (INSIDE)
TRANSITION STA 235+21.18 TO STA 237+51.18 (230.00')
P.C. STA= 235+21.18
P.T. STA= 245+71.11

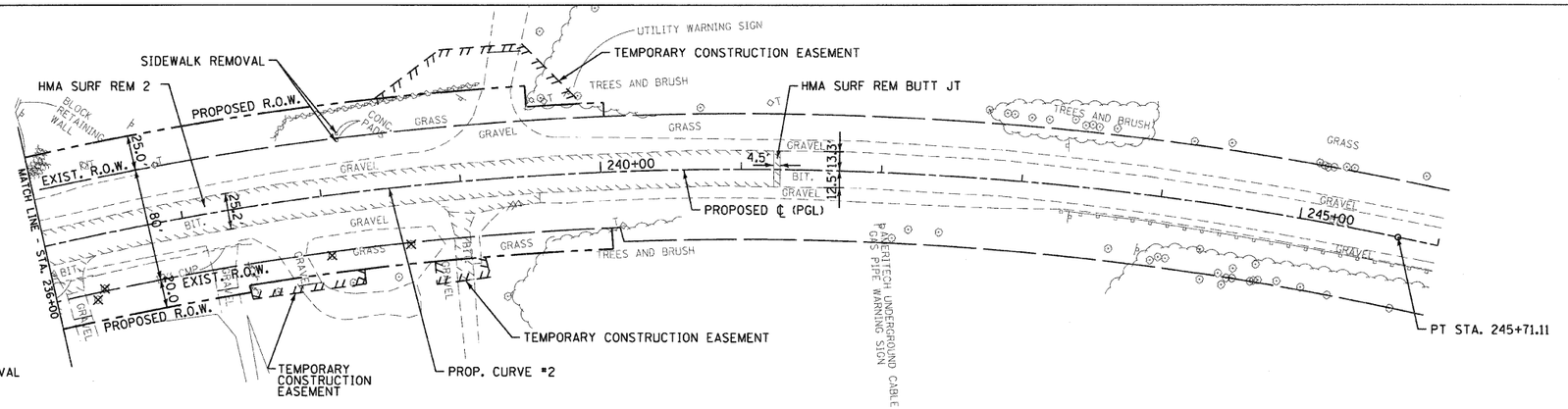
HORIZ. (1"=50') 0 50' 100'
VERT. (1"=5') 0 5' 10'

PROPOSED ILLINOIS ROUTE 176



PLAN AND PROFILE IL. RTE. 176 STA. 224+50 TO STA. 236+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	33
STA. 236+00	TO STA. 246+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62537				



LEGEND

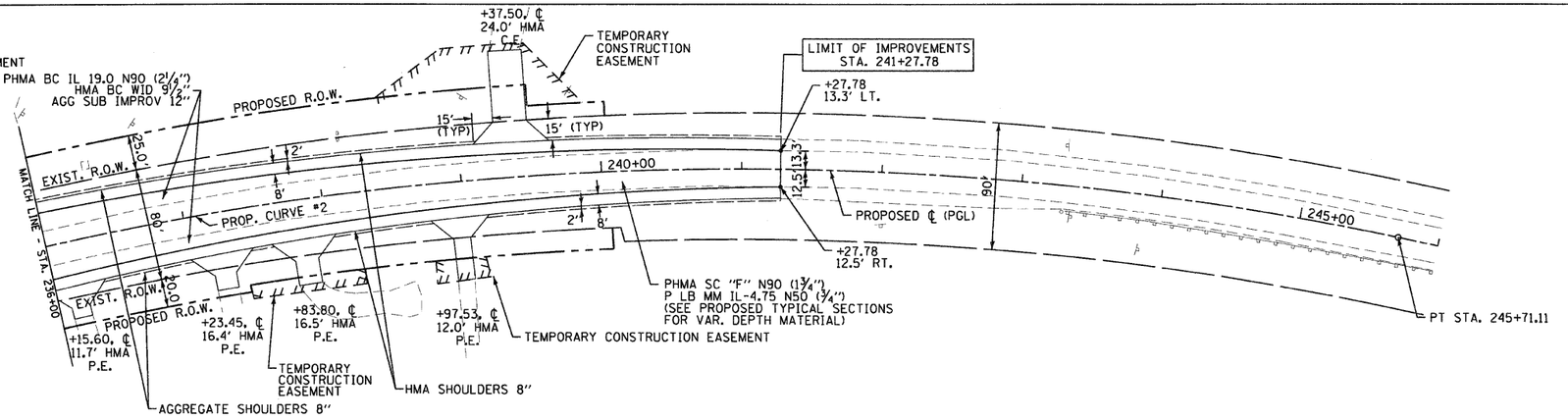
- PAVEMENT REMOVAL OR DRIVEWAY PAVEMENT REMOVAL OR BIT. SURFACE REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL OR CURB REMOVAL (AS NOTED)
- SIDEWALK REMOVAL
- * DETECTABLE WARNINGS ON CURB RAMPS

EXISTING ILLINOIS ROUTE 176

NOTE:

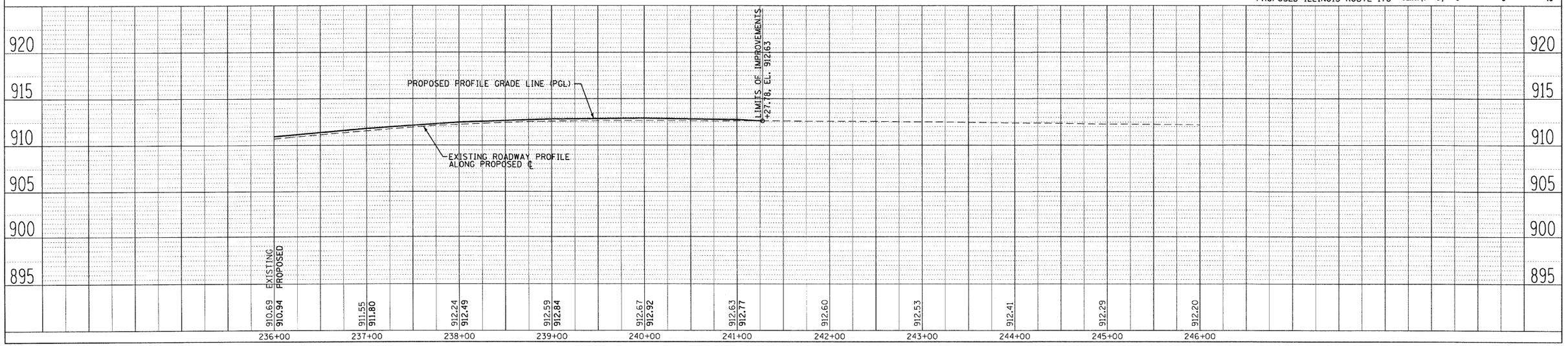
1) REFER TO PLAT OF HIGHWAYS FOR PROPOSED RIGHT-OF-WAY AND TEMPORARY CONSTRUCTION EASEMENT STATION AND OFFSET LOCATION

PROPOSED CURVE #2
P.I. STA= 240+55.68
Δ= 26°27'58"
R= 2,272.96
T= 534.50'
L= 1049.93'
E= 62.00
S.E.= 2.35% (OUTSIDE)
5.60% (INSIDE)
TRANSITION STA 235+21.18 TO STA 237+51.18 (230.00')
P.C. STA= 235+21.18
P.T. STA= 245+71.11



PROPOSED ILLINOIS ROUTE 176

HORIZ. (1" = 50') 0 50' 100'
VERT. (1" = 5') 0 5' 10'

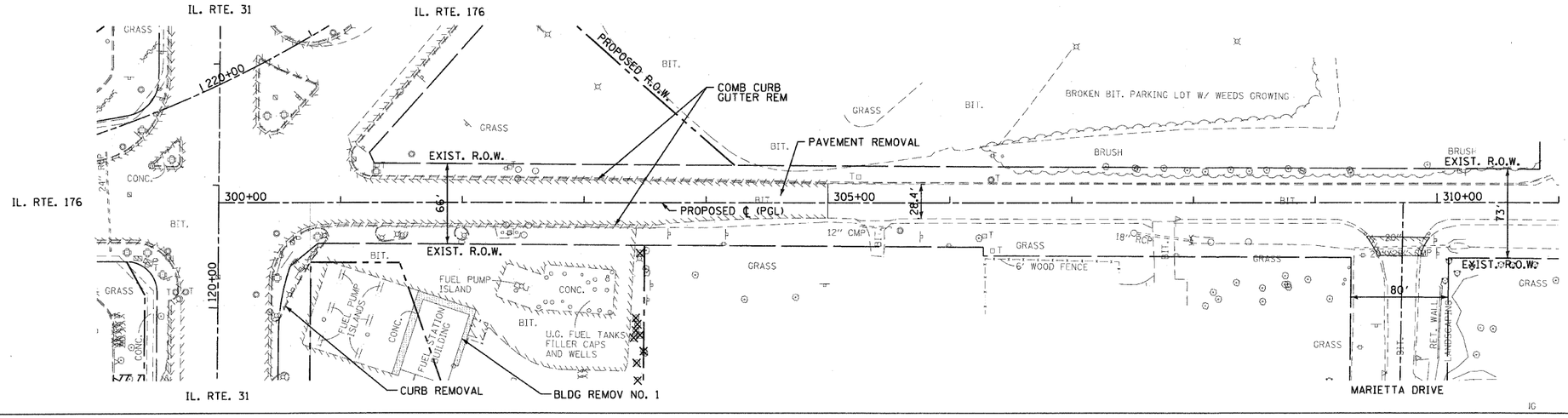


PLAN AND PROFILE IL. RTE. 176 STA. 236+00 TO STA. 246+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	34
STA. 300+00	TO STA. 311+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62537				

PLAN

BY	DATE
SURVEYED	
PLOTTED	
CHECKED	
ALIGNMENT CHECKED	
R.O.W. MAY CHECKED	
CADD FILE NAME	
NOTE BOOK	
NO.	



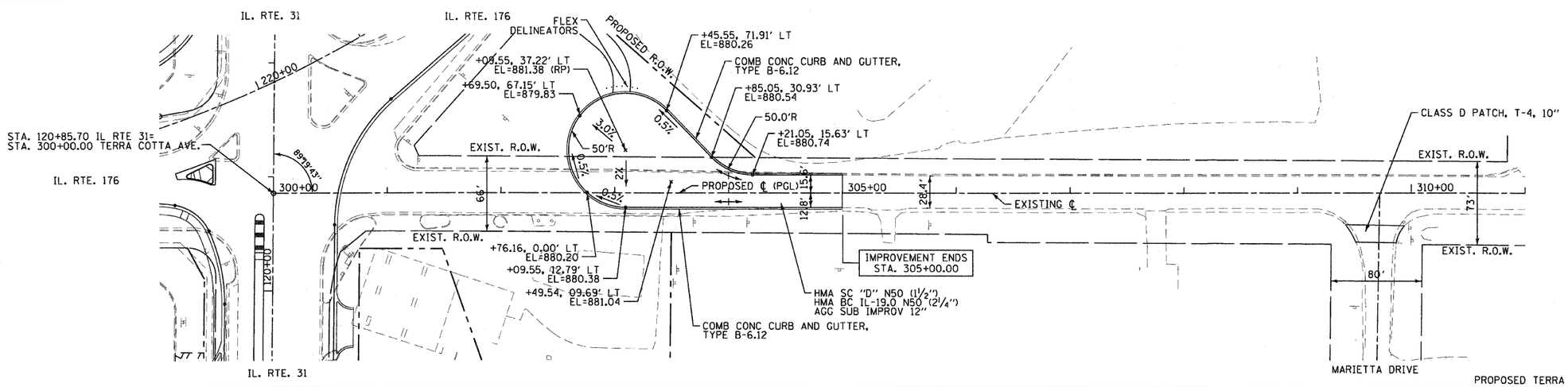
LEGEND

- PAVEMENT REMOVAL OR DRIVEWAY PAVEMENT REMOVAL OR BIT. SURFACE REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL OR CURB REMOVAL (AS NOTED)
- SIDEWALK REMOVAL
- * DETECTABLE WARNINGS ON CURB RAMPS

EXISTING TERRA COTTA AVENUE

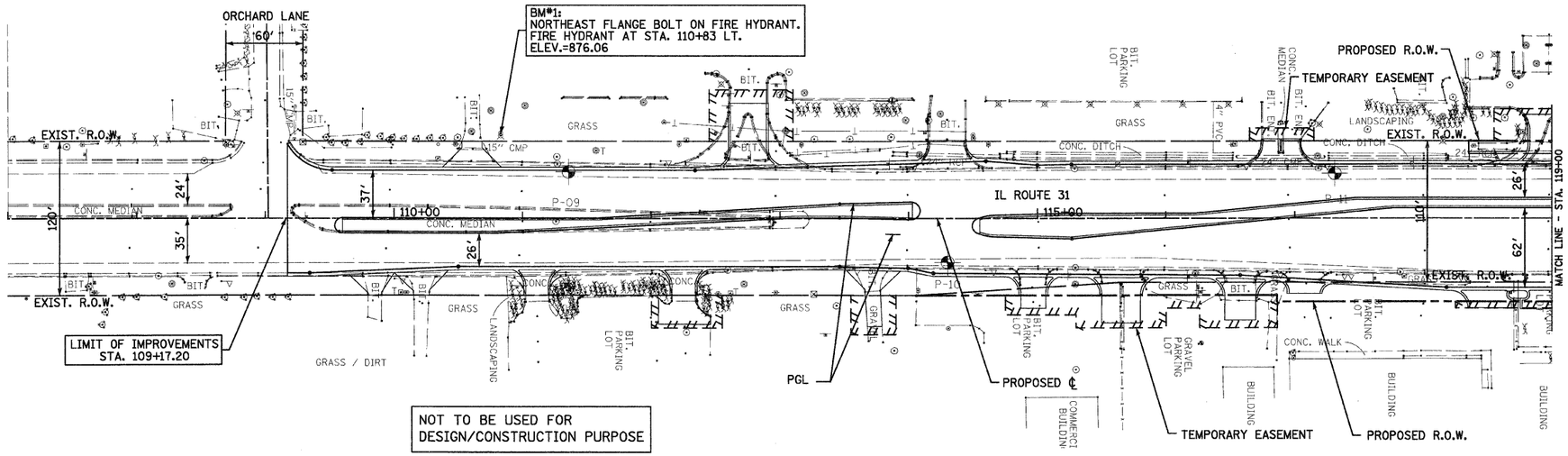
PROFILE

BY	DATE
SURVEYED	
PLOTTED	
CHECKED	
QUANTITIES CHECKED	
STRUCTURE NOTATNS CHKD	
NOTE BOOK	
NO.	



PLAN AND PROFILE TERRA COTTA AVENUE STA. 300+00 TO STA. 311+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	35
STA. 107+00	TO STA. 119+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62537				



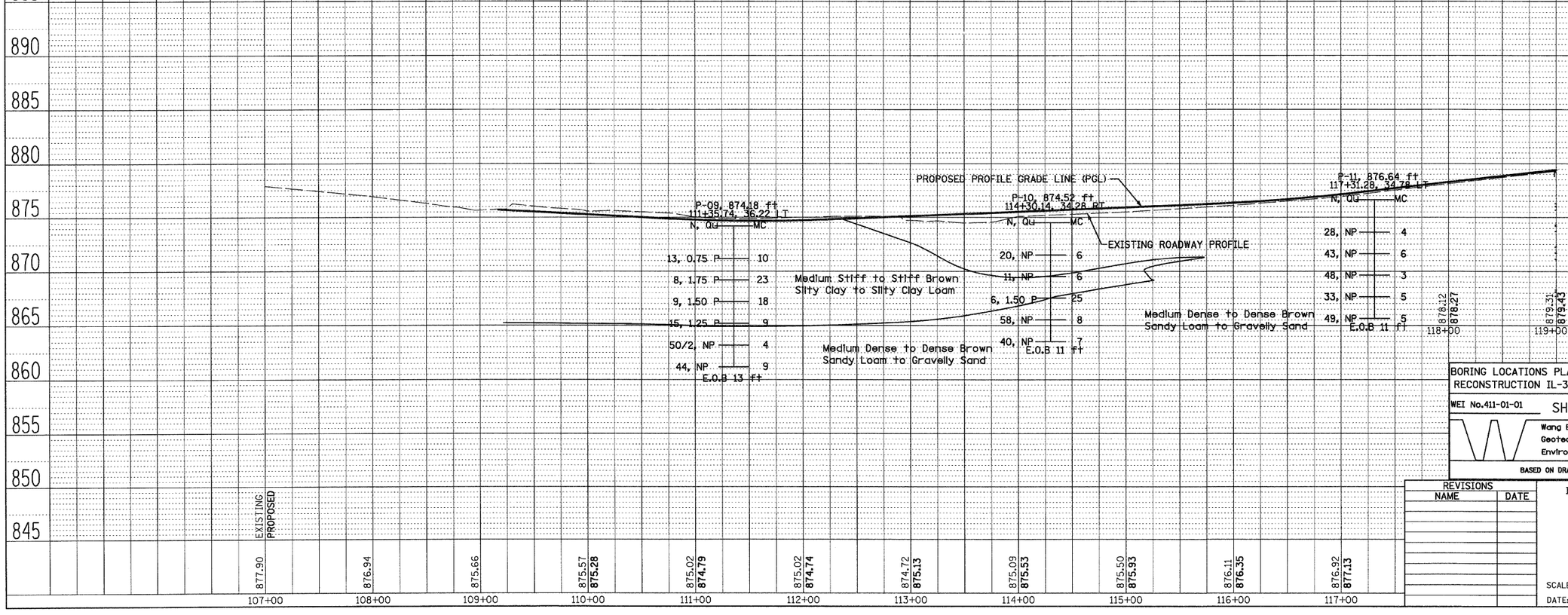
NOT TO BE USED FOR DESIGN/CONSTRUCTION PURPOSE

N

HORIZ. (1"=50') 0 50' 100'
VERT. (1"=5') 0 5' 10'

PLAN
SURVEYED
PLOTTED
HORIZONTAL CHECKED
R.T. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSSINGS CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE



BORING LOCATIONS PLAN: TERRA COTTA AVENUE RECONSTRUCTION IL-31

WEI No.411-01-01 SHEET 1 OF 4 DRAWN BY: WW/SS CHECKED BY: MEP

Wang Engineering, INC.
Geotechnical and Environmental Engineers
1145 N. Main Street
Lombard, IL 60148
630-953-9928

BASED ON DRAWINGS PROVIDED BY J.J. BENES

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31

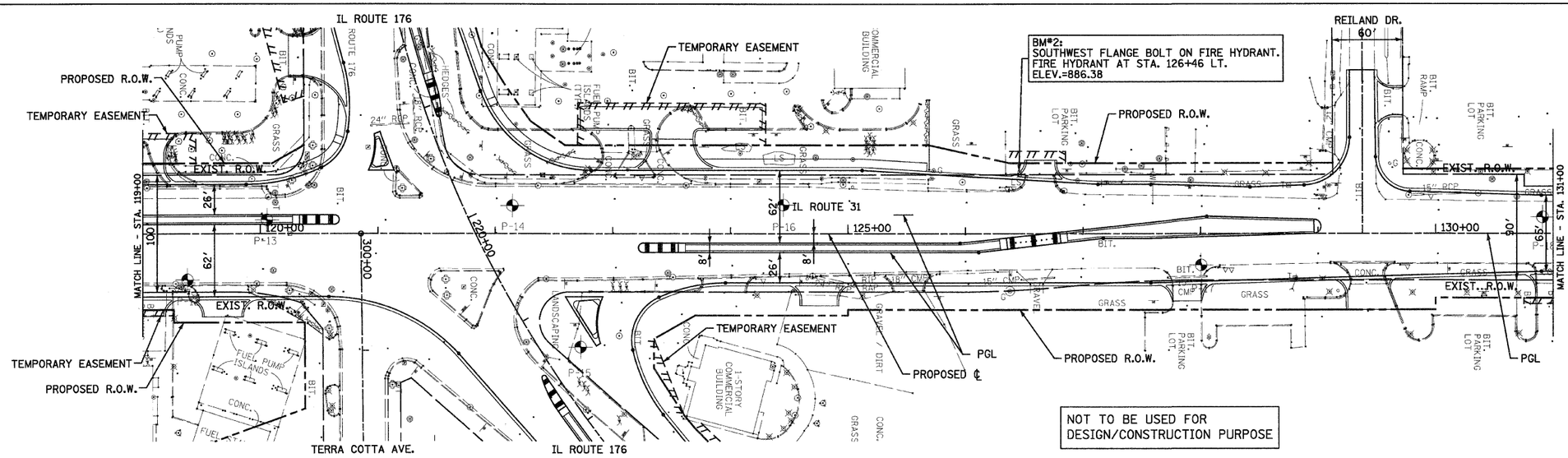
ILLINOIS ROUTE 31
GEOTECHNICAL PLAN AND PROFILE
STA. 107+00 TO STA. 119+00

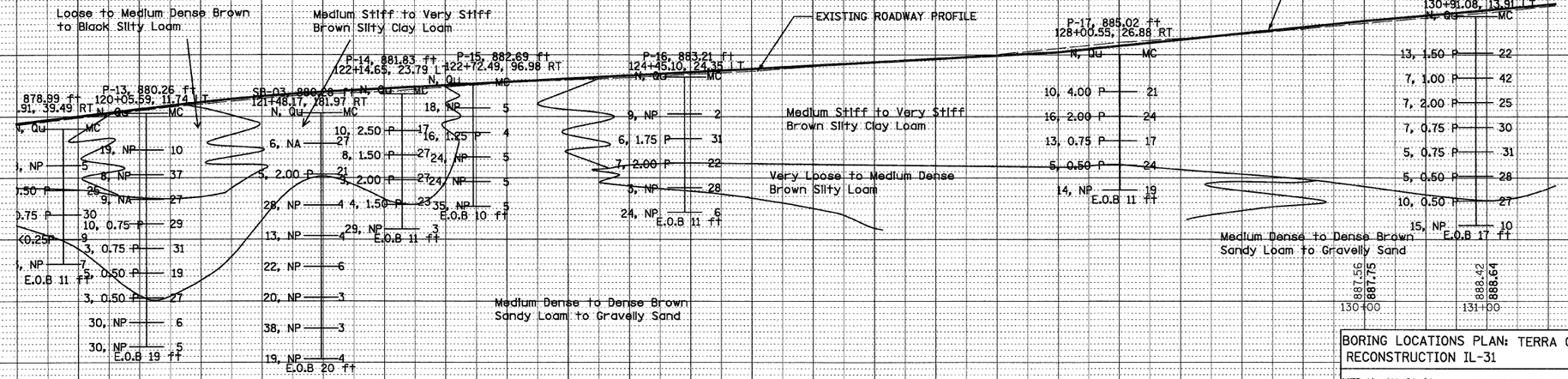
SCALE: VERT. 1"=5'
HORIZ. 1"=50'
DATE: 11/30/06

DRAWN BY: SMP
CHECKED BY: BDH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	36
STA. 119+00	TO STA. 131+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537





BORING LOCATIONS PLAN: TERRA COTTA AVENUE RECONSTRUCTION IL-31

WEI No.411-01-01 SHEET 2 OF 4 DRAWN BY: WW/SS CHECKED BY: MEP

Wang Engineering, INC. Geotechnical and Environmental Engineers
1145 N. Main Street Lombard, IL 60148 630-953-9928

BASED ON DRAWINGS PROVIDED BY J.J. BENES

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31

ILLINOIS ROUTE 31
GEOTECHNICAL PLAN AND PROFILE
STA. 119+00 TO STA. 131+00

SCALE: VERT. 1"=5' HORIZ. 1"=50'
DRAWN BY: SMP
DATE: 11/30/06
CHECKED BY: BDH

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, R.T. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

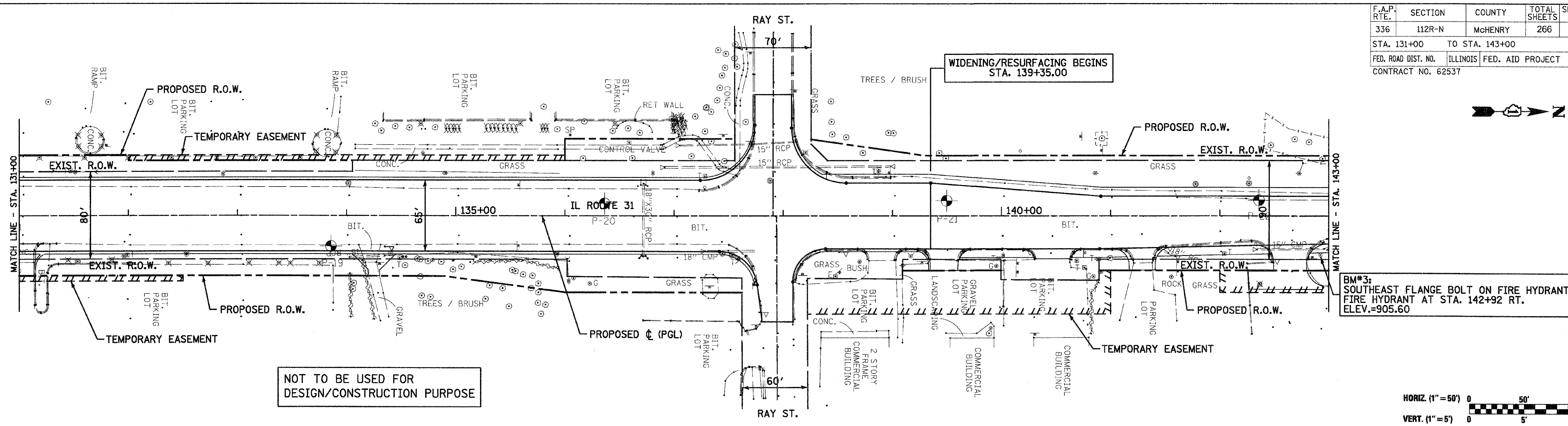
PROFILE: SURVEYED, PLOTTED, ALIGNMENT CHECKED, R.T. OF WAY CHECKED, B.M. NOTED, STRUCTURE NOTATING CHKD, NOTE BOOK, NO., BY, DATE

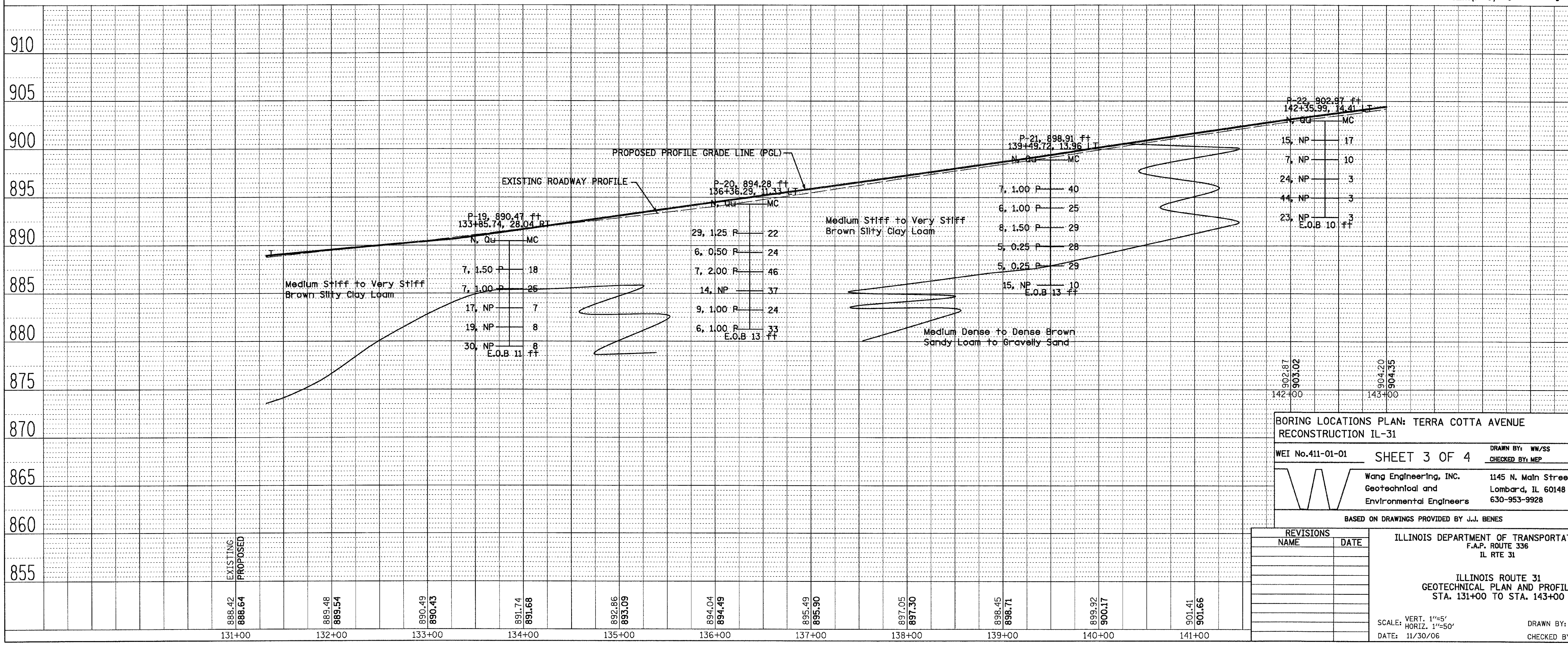
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	37

STA. 131+00 TO STA. 143+00

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

CONTRACT NO. 62537





BORING LOCATIONS PLAN: TERRA COTTA AVENUE RECONSTRUCTION IL-31

WEI No.411-01-01 SHEET 3 OF 4 DRAWN BY: WW/SS CHECKED BY: MEP

Wang Engineering, INC. Geotechnical and Environmental Engineers
1145 N. Main Street Lombard, IL 60148 630-953-9928

BASED ON DRAWINGS PROVIDED BY J.J. BENES

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31

ILLINOIS ROUTE 31
GEOTECHNICAL PLAN AND PROFILE
STA. 131+00 TO STA. 143+00

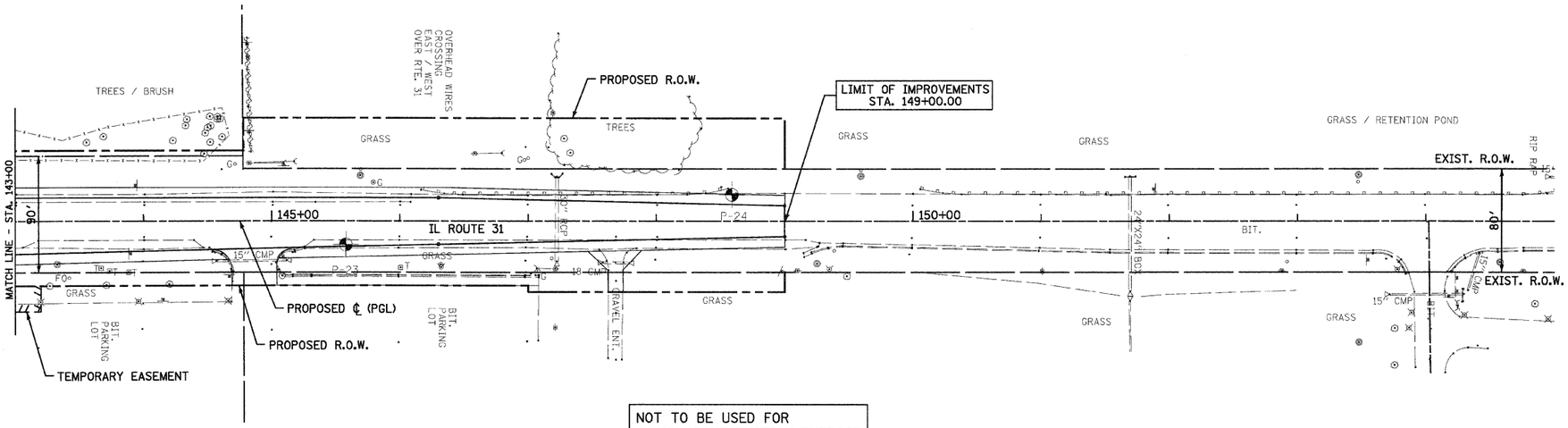
SCALE: VERT. 1"=5' HORIZ. 1"=50'
DATE: 11/30/06
DRAWN BY: SMP
CHECKED BY: BDH

PLAN: NOTE BOOK NO. SURVEYED PLOTTED ALIGNMENT CHECKED RT. OF WAY CHECKED CADD FILE NAME BY DATE

PROFILE: NOTE BOOK NO. SURVEYED PLOTTED GRADES CHECKED B.M. NOTED STRUCTURE NOTAT'NS CHKD BY DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	38
STA. 143+00	TO STA. 155+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

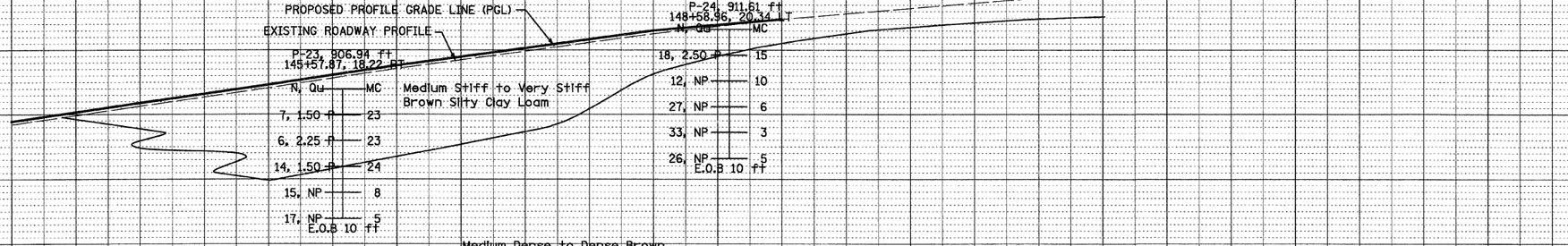
CONTRACT NO. 62537



NOT TO BE USED FOR DESIGN/CONSTRUCTION PURPOSE

HORIZ. (1"=50') 0 50' 100'

VERT. (1"=5') 0 5' 10'



925 920 915 910 905 900 895 890 885 880 875 870

	EXISTING	143+00	144+00	145+00	146+00	147+00	148+00	149+00	150+00	151+00	152+00	153+00
	PROPOSED											
	EXISTING	904.20	905.65	907.05	908.53	909.90	911.27	912.40	913.24	914.04	914.73	915.57
	PROPOSED	904.45	905.90	907.30	908.78	910.15	911.52	912.40				

BORING LOCATIONS PLAN: TERRA COTTA AVENUE RECONSTRUCTION IL-31

WEI No.411-01-01 SHEET 4 OF 4 DRAWN BY: WW/SS CHECKED BY: MEP

Wang Engineering, INC. Geotechnical and Environmental Engineers
1145 N. Main Street Lombard, IL 60148 630-953-9928

BASED ON DRAWINGS PROVIDED BY J.J. BENES

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31

ILLINOIS ROUTE 31
GEOTECHNICAL PLAN AND PROFILE
STA. 143+00 TO STA. 155+00

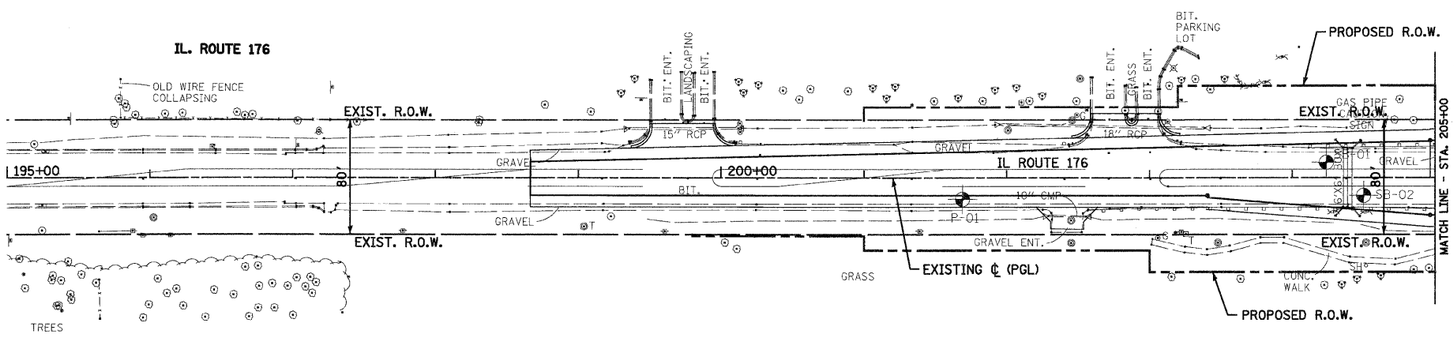
SCALE: VERT. 1"=5' HORIZ. 1"=50'
DRAWN BY: SMP
DATE: 11/30/06
CHECKED BY: BDH

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / ALL DATA INCLUDED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / BASE ADDED / STRUCTURE NOTATIONS CHKD / NOTE BOOK / NO. / BY / DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	39
STA. 195+00	TO STA. 205+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

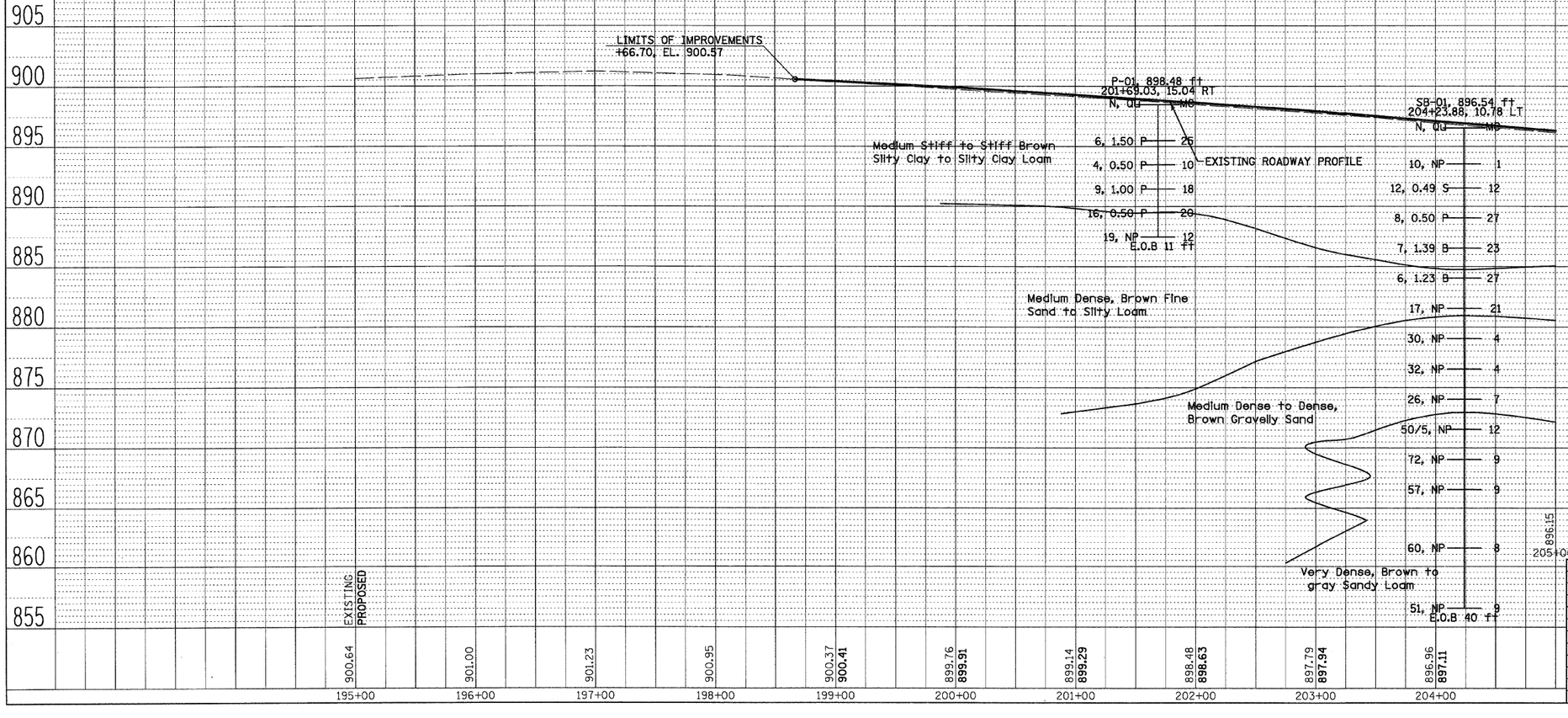


NOT TO BE USED FOR DESIGN/CONSTRUCTION PURPOSE

N

HORIZ. (1"=50') 0 50' 100'

VERT. (1"=5') 0 5' 10'



BORING LOCATIONS PLAN: TERRA COTTA AVENUE RECONSTRUCTION IL-176

WEI No.411-01-01 SHEET 1 OF 5 DRAWN BY: WW/SS CHECKED BY: MEP

Wang Engineering, INC.
Geotechnical and Environmental Engineers
1145 N. Main Street
Lombard, IL 60148
630-953-9928

BASED ON DRAWINGS PROVIDED BY J.J. BENES

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31

ILLINOIS ROUTE 176
GEOTECHNICAL PLAN AND PROFILE
STA. 195+00 TO STA. 205+00

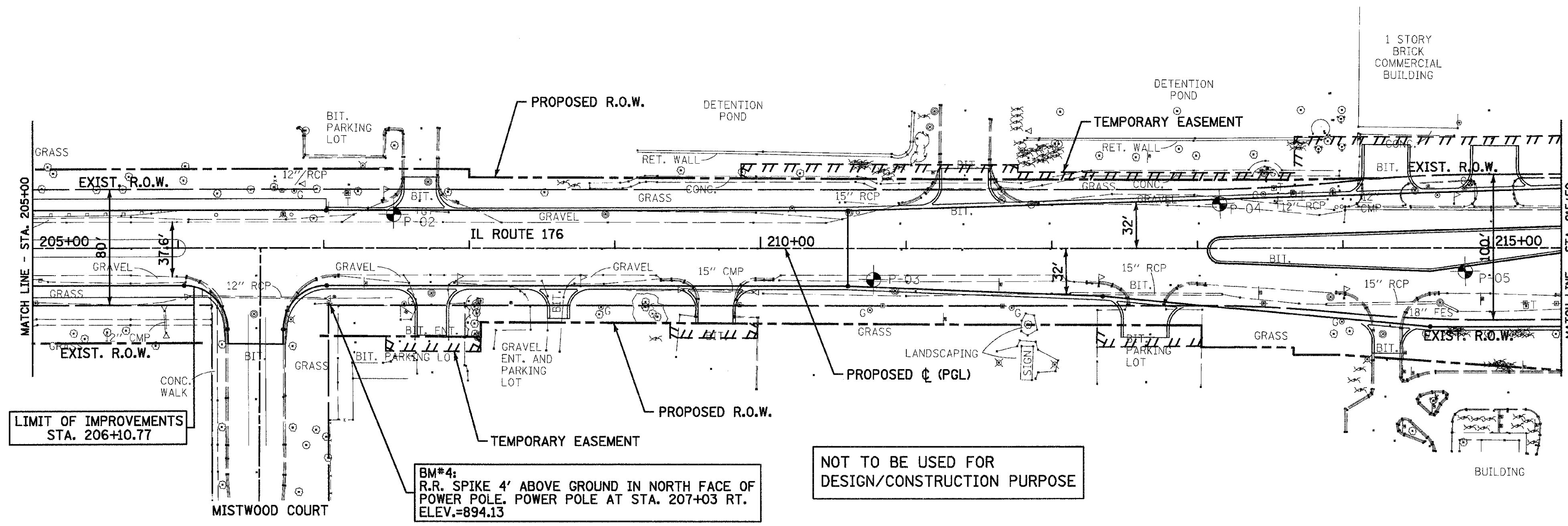
SCALE: VERT. 1"=5' HORIZ. 1"=50'
DRAWN BY: SMP
DATE: 12/29/06
CHECKED BY: BDH

PLAN
SURVEYED
PLOTTED
CHECKED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	40
STA. 205+00	TO STA. 215+50			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

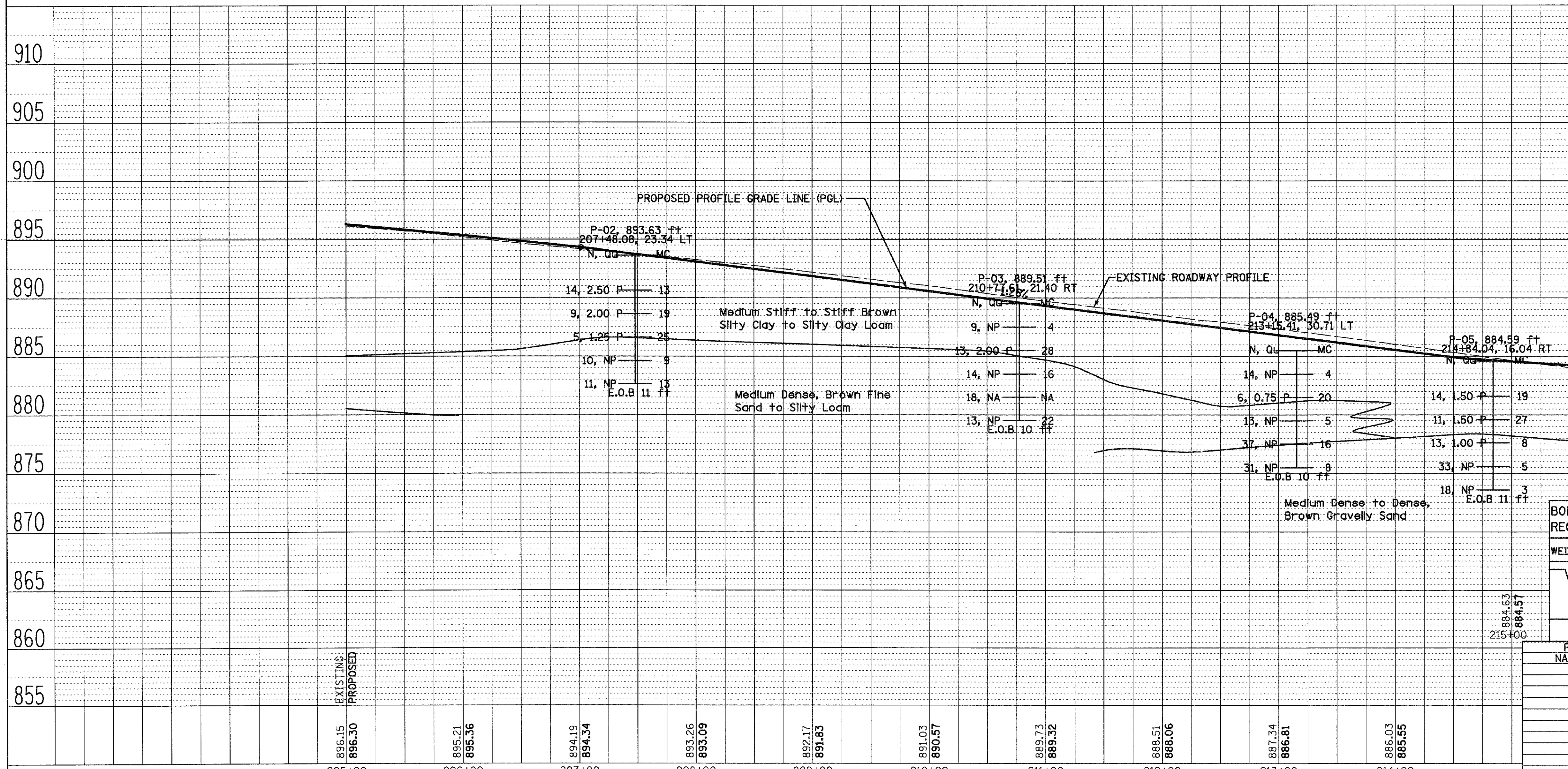


LIMIT OF IMPROVEMENTS
STA. 206+10.77

BM#4:
R.R. SPIKE 4' ABOVE GROUND IN NORTH FACE OF POWER POLE. POWER POLE AT STA. 207+03 RT.
ELEV.=894.13

NOT TO BE USED FOR
DESIGN/CONSTRUCTION PURPOSE

HORIZ. (1"=50') 0 50' 100'
VERT. (1"=5') 0 5' 10'



BORING LOCATIONS PLAN: TERRA COTTA AVENUE
RECONSTRUCTION IL-176

WEI No.411-01-01 | SHEET 2 OF 5 | DRAWN BY: WW/SS | CHECKED BY: MEP

Wang Engineering, INC.
Geotechnical and
Environmental Engineers
1145 N. Main Street
Lombard, IL 60148
630-953-9928

BASED ON DRAWINGS PROVIDED BY J.J. BENES

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31

ILLINOIS ROUTE 176
GEOTECHNICAL PLAN AND PROFILE
STA. 205+00 TO STA. 215+50

SCALE: VERT. 1"=5' HORIZ. 1"=50'
DATE: 12/29/06
DRAWN BY: SMP
CHECKED BY: BDH

PLAN: NOTE BOOK, NO. ___ | SURVEYED | PLOTTED | ALIGNMENT CHECKED | R.O.W. CHECKED | CADD FILE NAME | BY | DATE

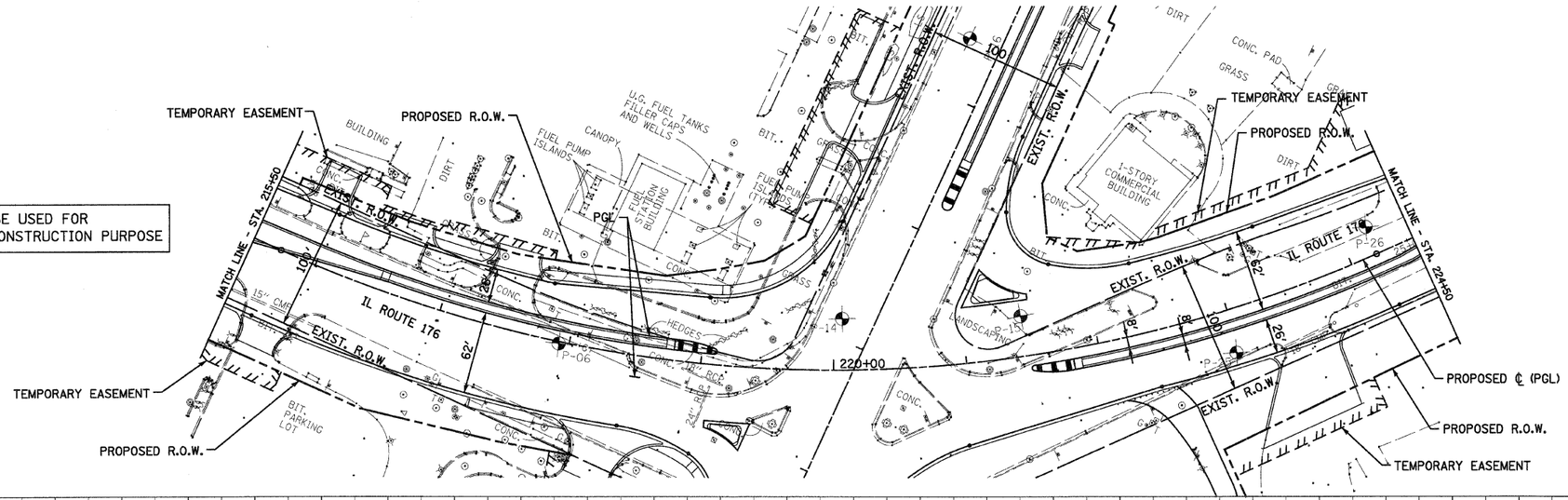
PROFILE: NOTE BOOK, NO. ___ | SURVEYED | PLOTTED | GRADES CHECKED | B.M. NOTED | STRUCTURE NOTATIONS CHECKED | BY | DATE

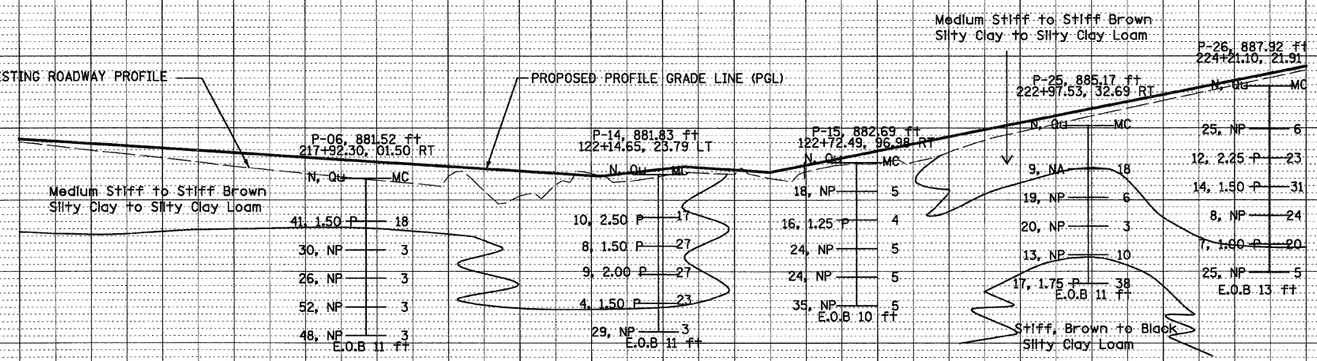
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	41
STA. 215+50	TO STA. 224+50			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

PLAN — SURVEYED / DRAWN / ALIGNMENT CHECKED / GRADES CHECKED / BEARINGS REVERSED / FIELD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / DRAWN / GRADES CHECKED / BEARINGS REVERSED / FIELD FILE NAME / NOTE BOOK / NO. / BY / DATE





BORING LOCATIONS PLAN: TERRA COTTA AVENUE RECONSTRUCTION IL-176

WEI No.411-01-01 — SHEET 3 OF 5 — DRAWN BY: WW/SS — CHECKED BY: MEP

Wang Engineering, INC.
Geotechnical and Environmental Engineers
1145 N. Main Street
Lombard, IL 60148
630-953-9928

BASED ON DRAWINGS PROVIDED BY J.J. BENES

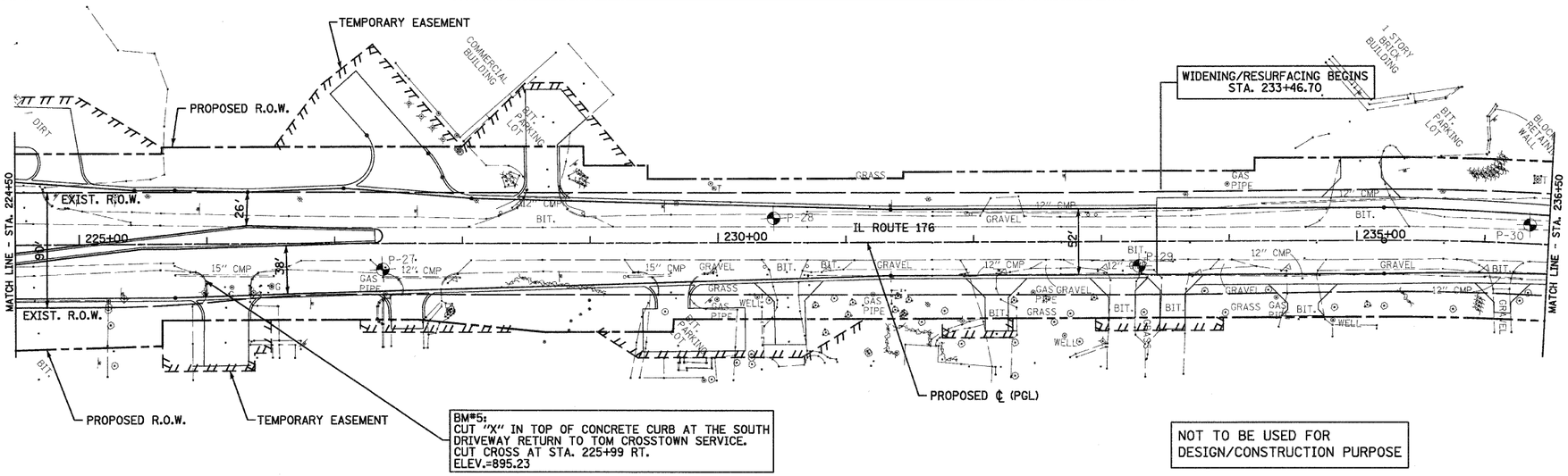
REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31

ILLINOIS ROUTE 176
GEOTECHNICAL PLAN AND PROFILE
STA. 215+50 TO STA. 224+50

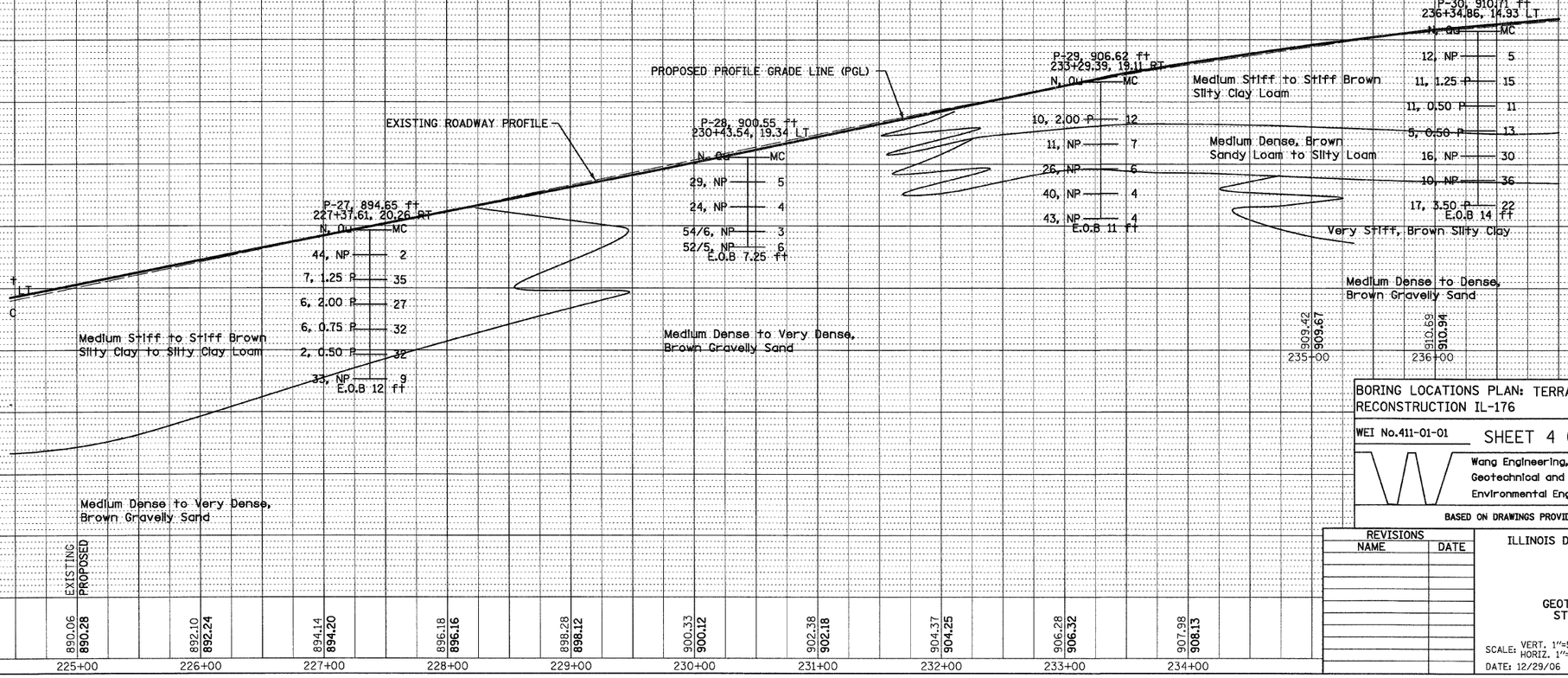
SCALE: VERT. 1"=5' HORIZ. 1"=50'
DATE: 12/29/06
DRAWN BY: SMP
CHECKED BY: BDH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	42
STA. 224+50	TO STA. 236+50			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62537				



NOT TO BE USED FOR DESIGN/CONSTRUCTION PURPOSE

HORIZ. (1"=50') 0 50' 100'
VERT. (1"=5') 0 5' 10'



BORING LOCATIONS PLAN: TERRA COTTA AVENUE RECONSTRUCTION IL-176

WEI No.411-01-01 SHEET 4 OF 5 DRAWN BY: WW/SS CHECKED BY: MEP

Wang Engineering, INC.
Geotechnical and Environmental Engineers
1145 N. Main Street
Lombard, IL 60148
630-953-9928

BASED ON DRAWINGS PROVIDED BY J.J. BENES

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31

ILLINOIS ROUTE 176
GEOTECHNICAL PLAN AND PROFILE
STA. 224+50 TO STA. 236+50

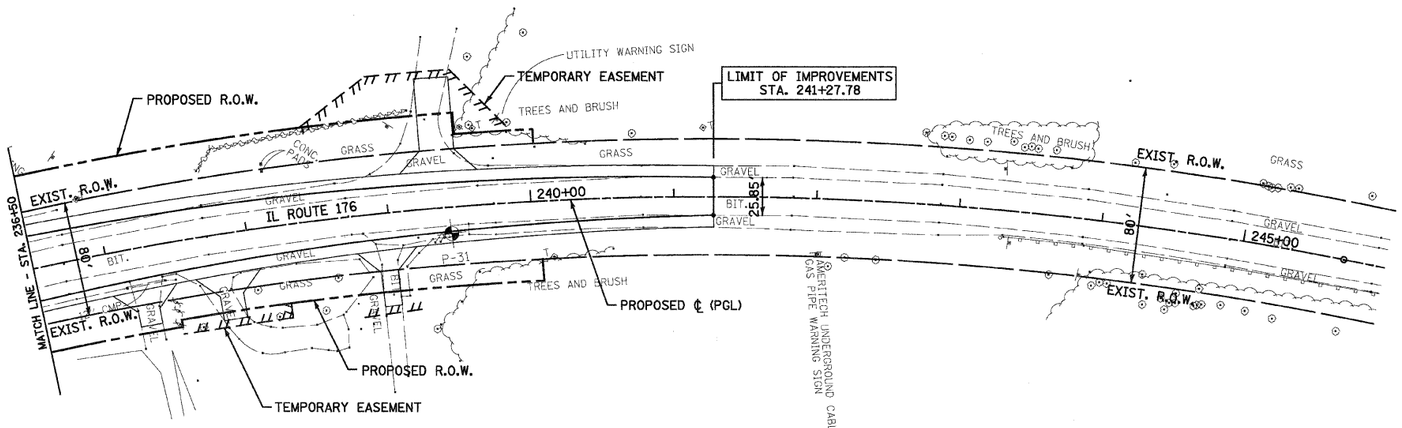
SCALE: VERT. 1"=5' HORIZ. 1"=50'
DRAWN BY: SMP
DATE: 12/29/06
CHECKED BY: BDH

PLAN SURVEYED / PLOTTED / ALIGNMENT CHECKED / GRADES CHECKED / R.O.W. MARKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE SURVEYED / PLOTTED / GRADES CHECKED / R.O.W. MARKED / STRUCTURE NO. / NOTATING CHKD / BY / DATE

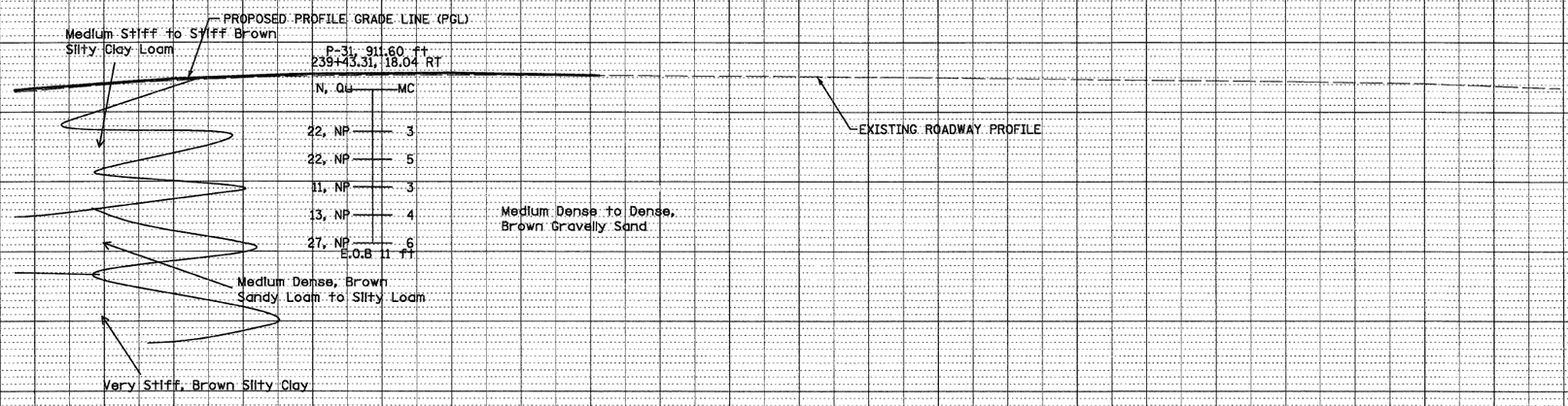
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	43
STA. 236+50	TO STA. 246+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537



HORIZ. (1"=50') 0 50' 100'

VERT. (1"=5') 0 5' 10'



925 920 915 910 905 900 895 890 885 880 875 870

	237+00	238+00	239+00	240+00	241+00	242+00	243+00	244+00	245+00	246+00
EXISTING	911.55	912.24	912.59	912.67	912.63	912.60	912.53	912.41	912.29	912.20
PROPOSED	911.70	912.39	912.74	912.82	912.64					

PLAN: SURVEYED, DRAWN, ALIGNMENT CHECKED, RT. OF WAY CHECKED, LOAD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, DRAWN, PLOTTED, CHECKED, B.M. NOTED, STRUCTURE NOTATIONS CHKD, NOTE BOOK, NO., BY, DATE

BORING LOCATIONS PLAN: TERRA COTTA AVENUE RECONSTRUCTION IL-176

WEI No.411-01-01 SHEET 5 OF 5 DRAWN BY: WW/SS CHECKED BY: MEP

Wang Engineering, INC.
Geotechnical and Environmental Engineers
1145 N. Main Street
Lombard, IL 60148
630-953-9928

BASED ON DRAWINGS PROVIDED BY J.J. BENES

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31

ILLINOIS ROUTE 176
GEOTECHNICAL PLAN AND PROFILE
STA. 236+50 TO STA. 246+00

SCALE: VERT. 1"=5' HORIZ. 1"=50'
DATE: 12/29/06

DRAWN BY: SMP
CHECKED BY: BDH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	MCHENRY	266	44
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

SUGGESTED MAINTENANCE OF TRAFFIC STAGING

PRE-STAGE

TRAFFIC:
ROUTE 31 TRAFFIC WILL USE THE EXISTING LANES.

ROUTE 176 TRAFFIC WILL USE THE EXISTING LANES.

CONSTRUCTION: USE STANDARD 701326

1. CLOSE TERRA COTTA AVENUE AND CONSTRUCT DETENTION FACILITY.
2. TEMPORARY TRAFFIC SIGNALS WILL BE INSTALLED AND ENERGIZED AT:
   ROUTE 31 AND ROUTE 176
3. CONSTRUCTION OF THE PROPOSED MAIN LINE SEWERS:

   EAST SIDE OF ROUTE 31
   SOUTH SIDE OF ROUTE 176 (EAST LEG)
   CENTER OF ROUTE 176 (WEST LEG)

   A) CONSTRUCTION WILL INCLUDE LATERAL SEWERS, AS FEASIBLE, TO THE NEAR EDGE OF THE EXISTING PAVEMENT CENTERLINE OR THE PROPOSED CENTERLINE OF ROUTE 31 AND ROUTE 176.
   B) CONSTRUCT STORM SEWERS P-88, P-89, & P-90 AND DRAINAGE STRUCTURES S-98, S-99, S-104, & THE FLARED END SECTION AT STA. 136+72 RT DURING PRE-STAGE 1.
   C) INSTALL OUTLET PIPES P-171 AND P-172 AND STRUCTURE S-184 CONCURRENTLY WITH THE POND EXCAVATION.
   D) TRENCH EAST TO WEST ACROSS THE POND REMOVING THE EXISTING 24" STORM SEWER UP TO THE LOCATION OF PROPOSED MH S-47. THIS ALLOWS THE DRAINAGE FROM EXISTING MH #9587 TO DRAIN EAST.
   E) INSTALL MH S-47 AND THE 30" PIPE WEST ACROSS RTE 31. INSTALL MH S-48 AT THE LOCATION OF THE EXISTING (BOX) CROSS CULVERT FROM THE NORTH. PROVIDE A TEMPORARY CONNNECTION USING THE EXISTING INVERT FOR P-138 WHICH WILL BE INSTALLED LATER. IN CONJUNCTION WITH THIS TEMPORARY CONNECTION, BULKHEAD THE EXISTING OUTLET PIPE (SOUTH) IN EXISTING MH #1075 JUST NORTH OF THE NORTH CURBLINE. CUT A HOLE IN THE NORTH SIDE OF THE MANHOLE TO ALLOW FLOW TO EXIT TO THE ADJACENT CROSS CULVERT TIED IN TO MH S-47, DESCRIBED ABOVE.
   F) INSTALL P-45 NORTH ACROSS RTE 176 FROM THE POND TO MH S-56. INSTALL THE LATERAL LINE ACROSS RTE 31 TO S-58. AT S-58 PROVIDE A TEMPORARY PIPE CONNECTION TO THE EXISTING 12" STORM SEWER FROM THE NORTH.
   G) THE EXISTING CURB INLET ON RTE 176 ADJACENT TO THE POND AND ADJACENT TO THE PROPOSED INLET S-52, WILL NEED TO DRAIN DIRECTLY INTO THE POND SINCE THE EXISTING OUTFLOW PIPE WIL BE REMOVED IN STAGE 1 DEMOLITION. CUT AN OPENING IN THE BACK OF THE STRUCTURE AND PROVIDE TEMPORARY EROSION CONTROL FOR DRAINAGE INTO THE POND.
4. CONSTRUCT TEMPORARY PAVEMENT ALONG THE MEDIAN OF THE EXISTING ROUTE 31 PAVEMENT AS SHOWN ON THE PLANS, STA. 100+00 TO STA. 108+75. CONSTRUCT TEMPORARY PAVEMENT ALONG THE WEST SIDE OF THE EXISTING ROUTE 31 PAVEMENT AS SHOWN ON THE PLANS, STA. 109 TO STA. 146.
5. CONSTRUCT TEMPORARY PAVEMENT ALONG THE EAST SIDE OF ROUTE 176 AT VARIOUS LOCATIONS SHOWN ON THE PLANS.
6. CONSTRUCT TEMPORARY PAVEMENT OVER STORM SEWER TRENCH ALONG WEST LEG OF ROUTE 176
6. INSTALL TEMPORARY PAVEMENT MARKINGS FOR STAGE I, AS INDICATED ON THE PLANS AND RELOCATE THE TRAFFIC LANES.
7. PROVIDE LANDSCAPE RESTORATION AND EROSION CONTROL AS APPLICABLE.

STAGE I

TRAFFIC:
ROUTE 31 TRAFFIC WILL USE A PORTION OF THE EXISTING LANES AND THE TEMPORARY PAVEMENT. LEFT TURN LANES WILL BE PROVIDED AT THE EXISTING LOCATIONS OF LEFT TURN LANES AS INDICATED ON THE PLANS.
ROUTE 176 TRAFFIC WILL USE A PORTION OF THE EXISTING LANES AND THE TEMPORARY PAVEMENT. LEFT TURN LANES WILL BE PROVIDED AT THE EXISTING LOCATIONS OF LEFT TURN LANES AS INDICATED ON THE PLANS.

CONSTRUCTION:

1. CONSTRUCT THE NEW TRAFFIC SIGNALS AT ROUTE 31 AND ROUTE 176.
2. CONSTRUCT THE CUL DE SAC ON TERRA COTTA AVENUE.
3. GRADING OF THE NEW DETENTION AREA WILL BE COMPLETED.
4. CONSTRUCTION OF THE PROPOSED MAIN LINE STORM SEWERS AND LATERALS.

   EAST SIDE OF ROUTE 31
   NORTH SIDE OF ROUTE 176
5. CONSTRUCT THE PROPOSED NORTH BOUND PAVEMENT OF ROUTE 31 AS SHOWN ON THE PLANS, STA. 109 TO STA. 149. CONSTRUCT THE PROPOSED WEST BOUND PAVEMENT OF ROUTE 176 AS SHOWN ON THE PLANS.
6. PROVIDE LANDSCAPE RESTORATION AND EROSION CONTROL AS APPLICABLE.
7. INSTALL TEMPORARY PAVEMENT MARKINGS FOR STAGE II, AS INDICATED ON THE PLANS.

STAGE II

TRAFFIC:

ROUTE 31 TRAFFIC WILL USE THE NEW LANES AND SOME TEMPORARY PAVEMENT LANES WILL BE PROVIDED AT THE EXISTING LOCATIONS OF LEFT TURN LANES AS INDICATED IN THE PLANS.

ROUTE 176 TRAFFIC WILL USE THE NEW LANES AND SOME TEMPORARY PAVEMENT AS SHOWN ON THE PLANS.
LEFT TURN LANES WILL BE PROVIDED AT THE EXISTING LOCATIONS OF LEFT TURN LANES AS INDICATED ON THE PLANS.

CONSTRUCTION:

1. CONSTRUCT THE NEW TRAFFIC SIGNALS AT ROUTE 31 AND ROUTE 176.
2. PAVEMENT REMOVAL AND EXCAVATION:
   THE SOUTH BOUND PORTION OF THE ROUTE 31 ROADWAY AND THE EAST BOUND PORTION OF THE ROUTE 176 ROADWAY.
3. CONSTRUCTION OF THE PROPOSED STORM SEWERS:

   WEST SIDE OF ROUTE 31
   SOUTH SIDE OF ROUTE 176
4. CONSTRUCT THE PROPOSED SOUTH BOUND PAVEMENT OF ROUTE 31 AS SHOWN ON THE PLANS. CONSTRUCT THE PROPOSED EAST BOUND PAVEMENT OF ROUTE 176 AS SHOWN ON THE PLANS.
5. PROVIDE LANDSCAPE RESTORATION AND EROSION CONTROL AS APPLICABLE.
6. INSTALL TEMPORARY PAVEMENT MARKINGS FOR STAGE III, AS INDICATED ON THE PLANS AND RELOCATE THE TRAFFIC LANES.

STAGE III

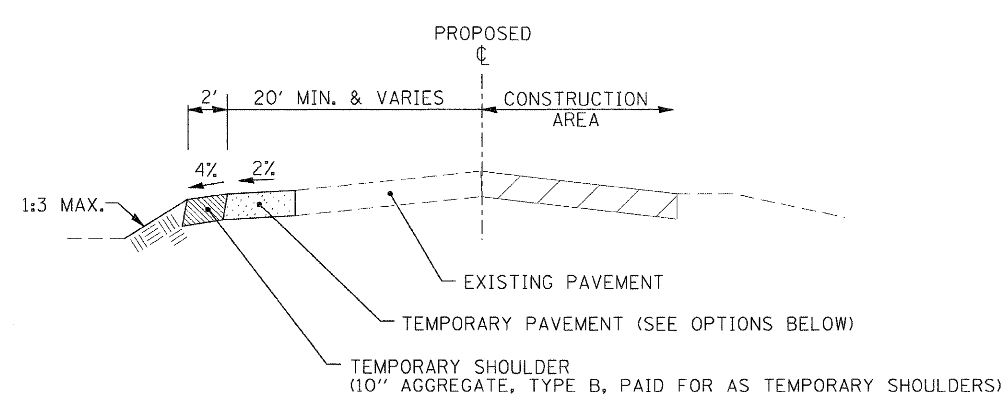
TRAFFIC:

ROUTE 31 TRAFFIC WILL USE THE OUTER LANE OF THE NEW PAVEMENT SECTION. LEFT TURN LANES WILL BE PROVIDED AS INDICATED ON THE PLANS.

ROUTE 176 TRAFFIC WILL USE THE OUTER LANE OF THE NEW PAVEMENT SECTION. LEFT TURN LANES WILL BE PROVIDED AS INDICATED ON THE PLANS.

CONSTRUCTION:

1. COMPLETE THE NEW TRAFFIC SIGNALS AT ROUTE 31 AND ROUTE 176.
2. PAVEMENT REMOVAL AND EXCAVATION OF THE MEDIAN AREAS.
3. CONSTRUCTION OF THE PROPOSED STORM SEWERS COMPLETED.
4. CONSTRUCT THE PROPOSED MEDIANS, CURB AND GUTTERS AND TURN LANES OF ROUTE 31 AND ROUTE 176.
   RECONSTRUCT THE MEDIANS AND TURN LANES OF ROUTE 31 AT THE SOUTH APPROACH TO THE PROJECT WHICH WERE REMOVED FOR STAGING REQUIREMENTS.
5. PROVIDE LANDSCAPE RESTORATION AND EROSION CONTROL AS APPLICABLE.
6. INSTALL PERMANENT PAVEMENT MARKINGS, AS INDICATED ON THE PLANS AND OPEN ALL TRAFFIC LANES.



(OPTION 1) PORTLAND CEMENT CONCRETE PAVEMENT 8" (JOINTED)
TRANSVERSE PAVEMENT JOINTS SHALL BE SPACED AT 15 FEET (NO DOWEL BARS)

(OPTION 2) HOT-MIX ASPHALT BASE COURSE, 7.5"
AND HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (2")

TEMPORARY PAVEMENT SHALL INCLUDE A MINIMUM OF 4" OF AGGREGRATE SUBGRADE, BUT INCREASED TO 12" IN AREAS OF SOFT SUBGRADE SOIL (IBR < 2.5)

TEMPORARY PAVEMENT

GENERAL NOTES FOR TRAFFIC CONTROL

1. ALL TRAFFIC CONTROL MATERIAL AND DEVICES SHALL CONFORM TO THE TRAFFIC CONTROL PLANS AND THE LATEST EDITION OF THE ILLINOIS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
2. MAINTENANCE OF TRAFFIC AS DENOTED ON THE PLANS IS INTENDED TO BE USED AS A GENERAL GUIDE FOR THE SEQUENCE OF CONSTRUCTION OF THE WORK. NO CHANGES WILL BE PERMITTED WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
3. ACCESS TO ENTRANCES SHALL BE MAINTAINED. WHEN A PROPERTY IS SERVICED BY A SINGLE ENTRANCE, CONSTRUCTION OF THE ENTRANCE SHALL BE COMPLETED ONE HALF AT A TIME IN ORDER TO MAINTAIN ACCESS. WHEN A PROPERTY IS SERVICED BY MULTIPLE ENTRANCES, ONE OF THE ENTRANCES SHALL REMAIN OPEN AT ALL TIMES.
4. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND TRAFFIC CONTROL DEVICES MAY BE ADJUSTED TO FIT THE FIELD CONDITIONS, AS DIRECTED BY THE ENGINEER.
5. REMOVE ANY EXISTING PAVEMENT MARKINGS, AS REQUIRED, IF IN CONFLICT WITH THE TEMPORARY PAVEMENT MARKINGS FOR TRAFFIC CONTROL AND PROTECTION AS SHOWN ON THE PLANS. TEMPORARY PAVEMENT MARKINGS WHICH FALL BEYOND THE PROJECT LIMITS SHALL BE TYPE III MARKING TAPE.
6. WORK AT INTERSECTIONS SHALL BE PERFORMED BETWEEN 9:00 A.M. AND 3:00 P.M. ONLY. FLAGGERS SHALL BE USED FOR ALL SUCH OPERATIONS.
7. TEMPORARY CONCRETE BARRIER AND TEMPORARY IMPACT ATTENUATOR SHALL BE PLACED WHERE THE ACTIVE TRAVEL LANE IS ADJACENT TO A DROP-OFF OF 3 FEET OR GREATER, AND AT LOCATIONS AS DIRECTED BY THE ENGINEER. AN ESTIMATED QUANTITY OF 590 FEET OF TEMPORARY CONCRETE BARRIER AND 2 EACH IMPACT ATTENUATOR (TEMPORARY) HAS BEEN INCLUDED. THE BARRIER UNIT AT EACH END OF THE INSTALLATION SHALL BE SECURED TO THE PAVEMENT OR SHOULDER USING ALL SIX ANCHORING PINS FOR F SHAPE OR ALL SIX DOWEL BARS FOR THE NEW JERSEY SHAPE. THE WORK SHALL BE IN ACCORDANCE WITH SECTION 704 OF THE STANDARD SPECIFICATIONS.
8. THE FURNISHING, INSTALLATION, RELOCATION AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES SHOWN ON THESE MAINTENANCE OF TRAFFIC PLANS AND ON THE APPLICABLE IDOT TRAFFIC CONTROL STANDARDS SHALL BE PAID FOR UNDER THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION (SPECIAL)". THE CONTRACTOR SHALL FURNISH ANY ADDITIONAL SIGNS AS REQUIRED BY THE ENGINEER, THE COST OF WHICH WILL ALSO BE INCLUDED IN "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".
9. PORTABLE CHANGEABLE MESSAGE SIGNS SHALL BE PROVIDED EAST BOUND AND WEST BOUND ON ROUTE 176, AND NORTH BOUND AND SOUTH BOUND ON ROUTE 31, AS DIRECTED BY THE ENGINEER.
10. THE CONTRACTOR SHALL COORDINATE WITH ADJACENT CONTRACT CONCERNING STAGING THE CONSTRUCTION, AS DIRECTED BY THE ENGINEER.
11. ALL TEMPORARY CONCRETE BARRIERS ON THE TEMPORARY PAVEMENT, SHALL BE ANCHORED TO THE PAVEMENT PER STATE STANDARD 704001
12. TEMPORARY PAVEMENT SHALL BE REQUIRED OVER SEWER AND WATER MAIN TRENCHES, WHERE THE TRENCH RESIDES WITHIN THE EXISTING ROADWAY PAVEMENT AND WILL REQUIRE TRAFFIC TO BE MAINTAINED ON THE EXISTING PAVEMENT.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL-STAGING AND GENERAL NOTES

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

PLAN: NOTE BOOK / NO. / SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / BY / DATE

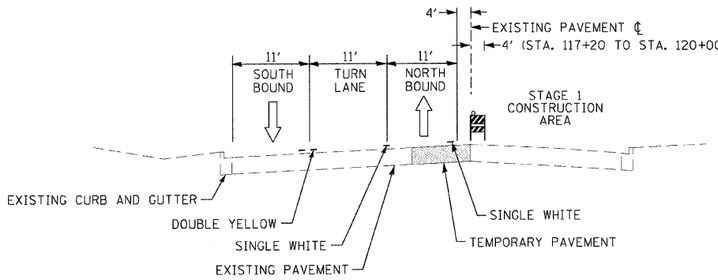
PROFILE: NOTE BOOK / NO. / SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CHK'D / BY / DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	45
STA. 93+00	TO STA. 107+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / GRADES CHECKED / NOTE BOOK / NO. / CADD FILE NAME / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / ALIGNMENT CHECKED / NOTE BOOK / NO. / STRUCTURE NO'S/MP'S CHKD / BY / DATE



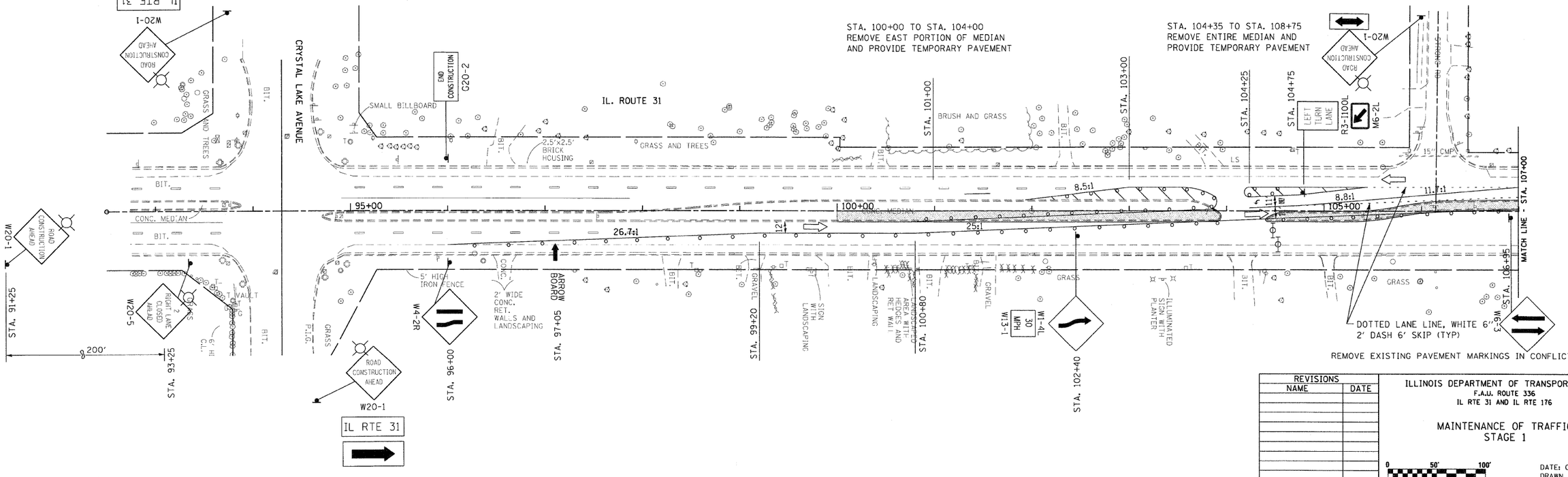
IL RTE 31
STAGE 1
STA. 100+00 THRU STA. 113+70

TEMPORARY PAVEMENT MARKINGS

4" EDGE LINE - EACH EDGE (YELLOW FOR INSIDE EDGE, WHITE FOR OUTSIDE EDGE)
4" WHITE SKIP DASH - (30 FT. SKIP-10 FT. DASH) - BETWEEN LANES
4" DOUBLE YELLOW - MEDIANS AND BETWEEN OPPOSING LANES
6" WHITE LANE LINE - STORAGE AREA OF LEFT-TURN BAY
6" WHITE SKIP DASH - (6 FT. SKIP-2 FT. DASH) - LEFT-TURN BAY
12" YELLOW DIAGONALS - (20 FT. C-C) - MEDIANS AND GORES
24" WHITE STOP BAR - ALL LOCATIONS
WHITE LETTERS AND SYMBOLS - TURN LANES

MAINTENANCE OF TRAFFIC LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAFFIC
- TEMPORARY CONCRETE BARRIER WALL WITH VERTICAL PANELS AND STEADY BURN LIGHTS @ 50' C-C
- IMPACT ATTENUATOR
- TYPE II BARRICADES OR DRUMS WITH STEADY BURN LIGHTS AT 50' C-C UNLESS OTHERWISE NOTED DEVICES IN TAPER (25' C-C) DEVICES IN RADII (10' C-C)
- CONSTRUCTION SIGN
- TYPE III BARRICADES WITH FLASHING LIGHTS (2 EACH)
- ARROW BOARD
- TEMPORARY PAVEMENT
- TEMPORARY DRAINAGE



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

MAINTENANCE OF TRAFFIC
STAGE 1

0 50' 100'
1" = 50'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	46
STA. 107+00	TO STA. 131+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

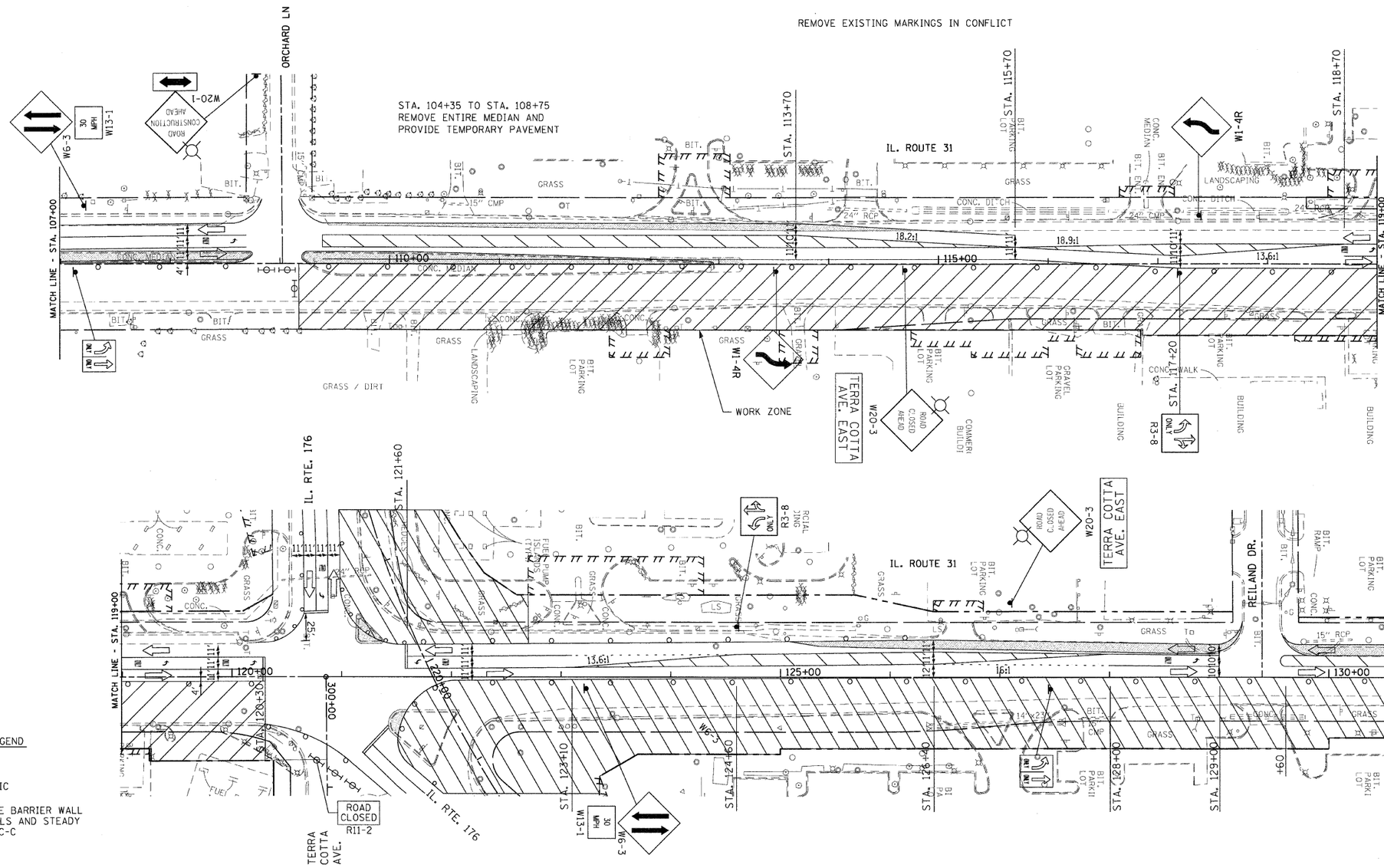
PLAN
SURVEYED
DRAWN
GRADES CHECKED
ALIGNMENT CHECKED
STR. NO. FILE NAME
NOTE BOOK
NO.

PROFILE
SURVEYED
DRAWN
GRADES CHECKED
ALIGNMENT CHECKED
STR. NO. FILE NAME NOTATIONS CHKD
NOTE BOOK
NO.

BY DATE

REMOVE EXISTING MARKINGS IN CONFLICT

STA. 104+35 TO STA. 108+75
REMOVE ENTIRE MEDIAN AND
PROVIDE TEMPORARY PAVEMENT



MAINTENANCE OF TRAFFIC LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAFFIC
- TEMPORARY CONCRETE BARRIER WALL WITH VERTICAL PANELS AND STEADY BURN LIGHTS @ 50' C-C
- IMPACT ATTENUATOR
- TYPE II BARRICADES OR DRUMS WITH STEADY BURN LIGHTS AT 50' C-C UNLESS OTHERWISE NOTED
  DEVICES IN TAPER (25' C-C)
  DEVICES IN RADII (10' C-C)
- CONSTRUCTION SIGN
- TYPE III BARRICADES WITH FLASHING LIGHTS (2 EACH)
- ARROW BOARD
- TEMPORARY PAVEMENT
- TEMPORARY DRAINAGE

TEMPORARY PAVEMENT MARKINGS

4" EDGE LINE - EACH EDGE (YELLOW FOR INSIDE EDGE, WHITE FOR OUTSIDE EDGE)
4" WHITE SKIP DASH - (30 FT. SKIP-10 FT. DASH) - BETWEEN LANES
4" DOUBLE YELLOW - MEDIANS AND BETWEEN OPPOSING LANES
6" WHITE LANE LINE - STORAGE AREA OF LEFT-TURN BAY
6" WHITE SKIP DASH - (6 FT. SKIP-2 FT. DASH) - LEFT-TURN BAY
12" YELLOW DIAGONALS - (20 FT. C-C) - MEDIANS AND GORES
24" WHITE STOP BAR - ALL LOCATIONS
WHITE LETTERS AND SYMBOLS - TURN LANES

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

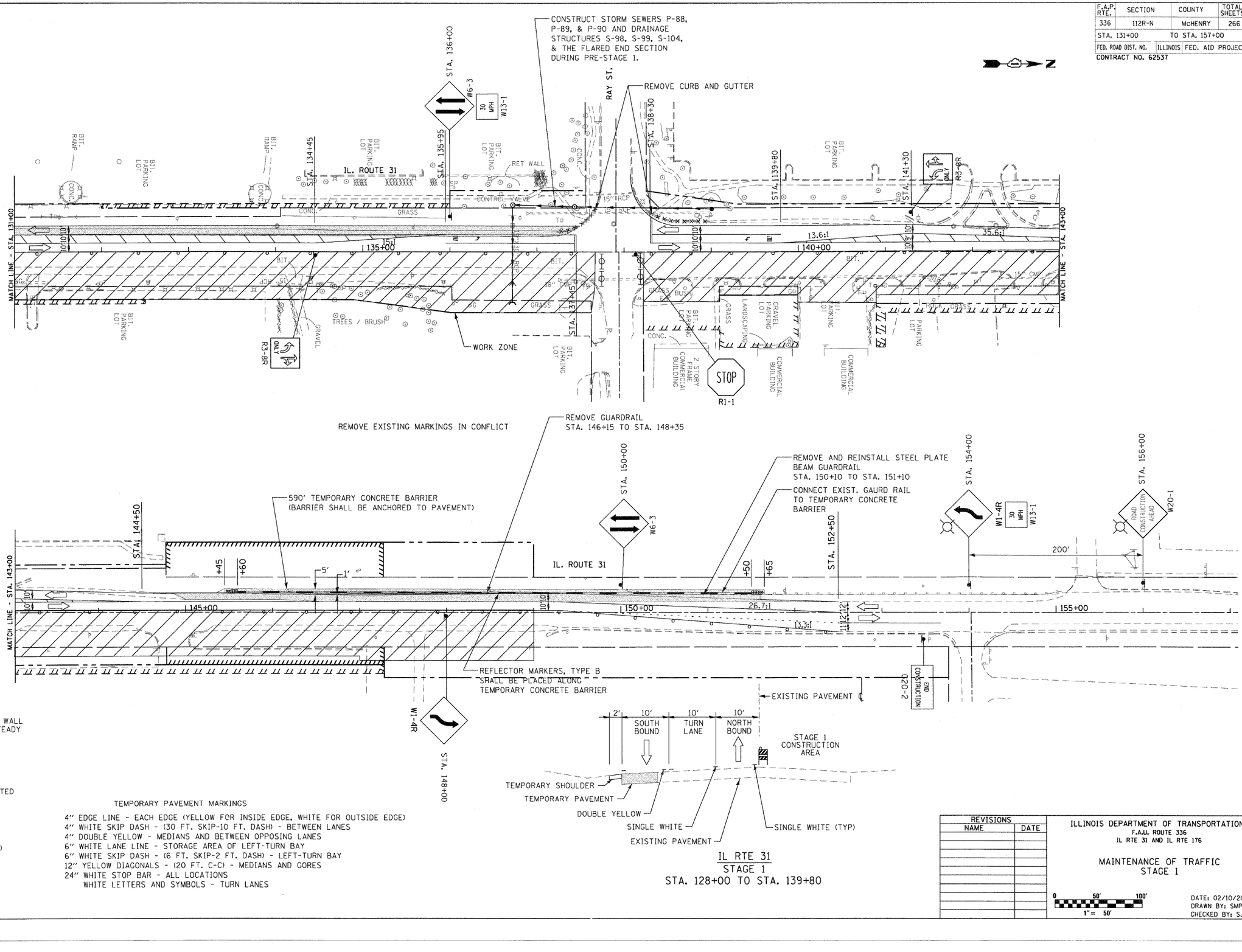
MAINTENANCE OF TRAFFIC
STAGE 1

0 50' 100'
1" = 50'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	47
STA. 131+00		TO STA. 157+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537



MAINTENANCE OF TRAFFIC LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAFFIC
- TEMPORARY CONCRETE BARRIER WALL WITH VERTICAL PANELS AND STEADY BURN LIGHTS @ 50' C-C
- IMPACT ATTENUATOR
- TYPE II BARRICADES OR DRUMS WITH STEADY BURN LIGHTS AT 50' C-C UNLESS OTHERWISE NOTED DEVICES IN TAPER (25' C-C) DEVICES IN RADII (10' C-C)
- CONSTRUCTION SIGN
- TYPE III BARRICADES WITH FLASHING LIGHTS (2 EACH)
- ARROW BOARD
- TEMPORARY PAVEMENT
- TEMPORARY DRAINAGE

TEMPORARY PAVEMENT MARKINGS

4" EDGE LINE - EACH EDGE (YELLOW FOR INSIDE EDGE, WHITE FOR OUTSIDE EDGE)
4" WHITE SKIP DASH - (30 FT. SKIP-10 FT. DASH) - BETWEEN LANES
4" DOUBLE YELLOW - MEDIANS AND BETWEEN OPPOSING LANES
6" WHITE LANE LINE - STORAGE AREA OF LEFT-TURN BAY
6" WHITE SKIP DASH - (6 FT. SKIP-2 FT. DASH) - LEFT-TURN BAY
12" YELLOW DIAGONALS - (20 FT. C-C) - MEDIANS AND GORES
24" WHITE STOP BAR - ALL LOCATIONS
WHITE LETTERS AND SYMBOLS - TURN LANES

IL RTE 31
STAGE 1
STA. 128+00 TO STA. 139+80

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

MAINTENANCE OF TRAFFIC
STAGE 1

0 50' 100'
1"= 50'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, ALL MARKINGS PLACED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: WORKED, PLOTTED, GRADES CHECKED, ALL MARKINGS PLACED, STRUCTURE NO'S ATTNS CHK'D, NOTE BOOK, NO., BY, DATE

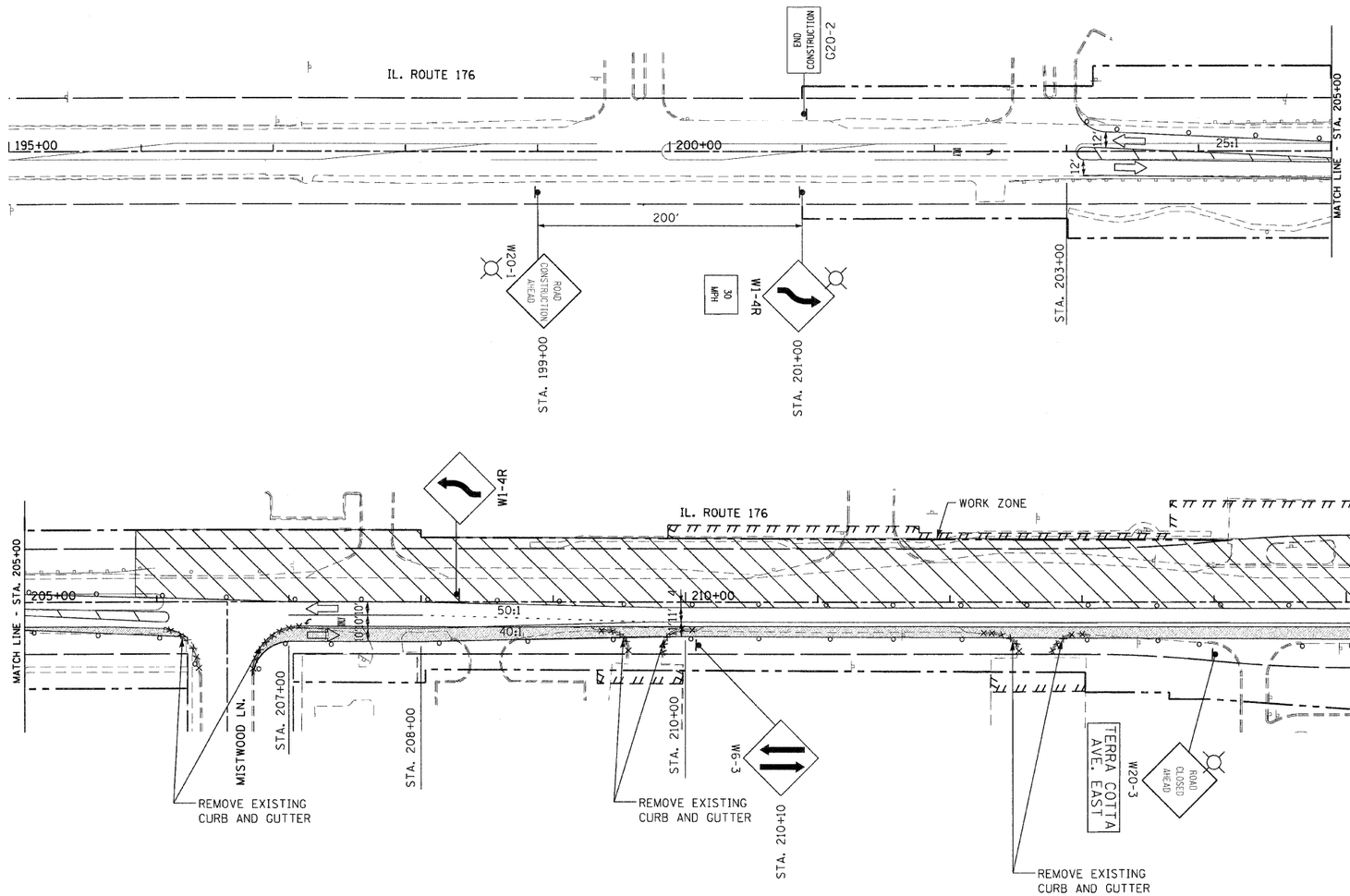
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	48
STA. 195+00	TO STA. 215+50			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

N

PLAN
SURVEYED BY DATE
PLOTTED
ALIGNMENT CHECKED
GRADES CHECKED
CADD FILE NAME
NOTE BOOK
NO.

PROFILE
SURVEYED BY DATE
PLOTTED
GRADES CHECKED
ALIGNMENT CHECKED
STRUCTURE NO(S)/NS CHKD
NOTE BOOK
NO.



MAINTENANCE OF TRAFFIC LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAFFIC
- TEMPORARY CONCRETE BARRIER WALL WITH VERTICAL PANELS AND STEADY BURN LIGHTS @ 50' C-C
- IMPACT ATTENUATOR
- TYPE II BARRICADES OR DRUMS WITH STEADY BURN LIGHTS AT 50' C-C UNLESS OTHERWISE NOTED
  DEVICES IN TAPER (25' C-C)
  DEVICES IN RADII (10' C-C)
- CONSTRUCTION SIGN
- TYPE III BARRICADES WITH FLASHING LIGHTS (2 EACH)
- ARROW BOARD
- TEMPORARY PAVEMENT
- TEMPORARY DRAINAGE

TEMPORARY PAVEMENT MARKINGS

4" EDGE LINE - EACH EDGE (YELLOW FOR INSIDE EDGE, WHITE FOR OUTSIDE EDGE)
4" WHITE SKIP DASH - (30 FT. SKIP-10 FT. DASH) - BETWEEN LANES
4" DOUBLE YELLOW - MEDIANS AND BETWEEN OPPOSING LANES
6" WHITE LANE LINE - STORAGE AREA OF LEFT-TURN BAY
6" WHITE SKIP DASH - (6 FT. SKIP-2 FT. DASH) - LEFT-TURN BAY
12" YELLOW DIAGONALS - (20 FT. C-C) - MEDIANS AND GORES
24" WHITE STOP BAR - ALL LOCATIONS
WHITE LETTERS AND SYMBOLS - TURN LANES

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

MAINTENANCE OF TRAFFIC
STAGE 1

0 50' 100'
1" = 50'

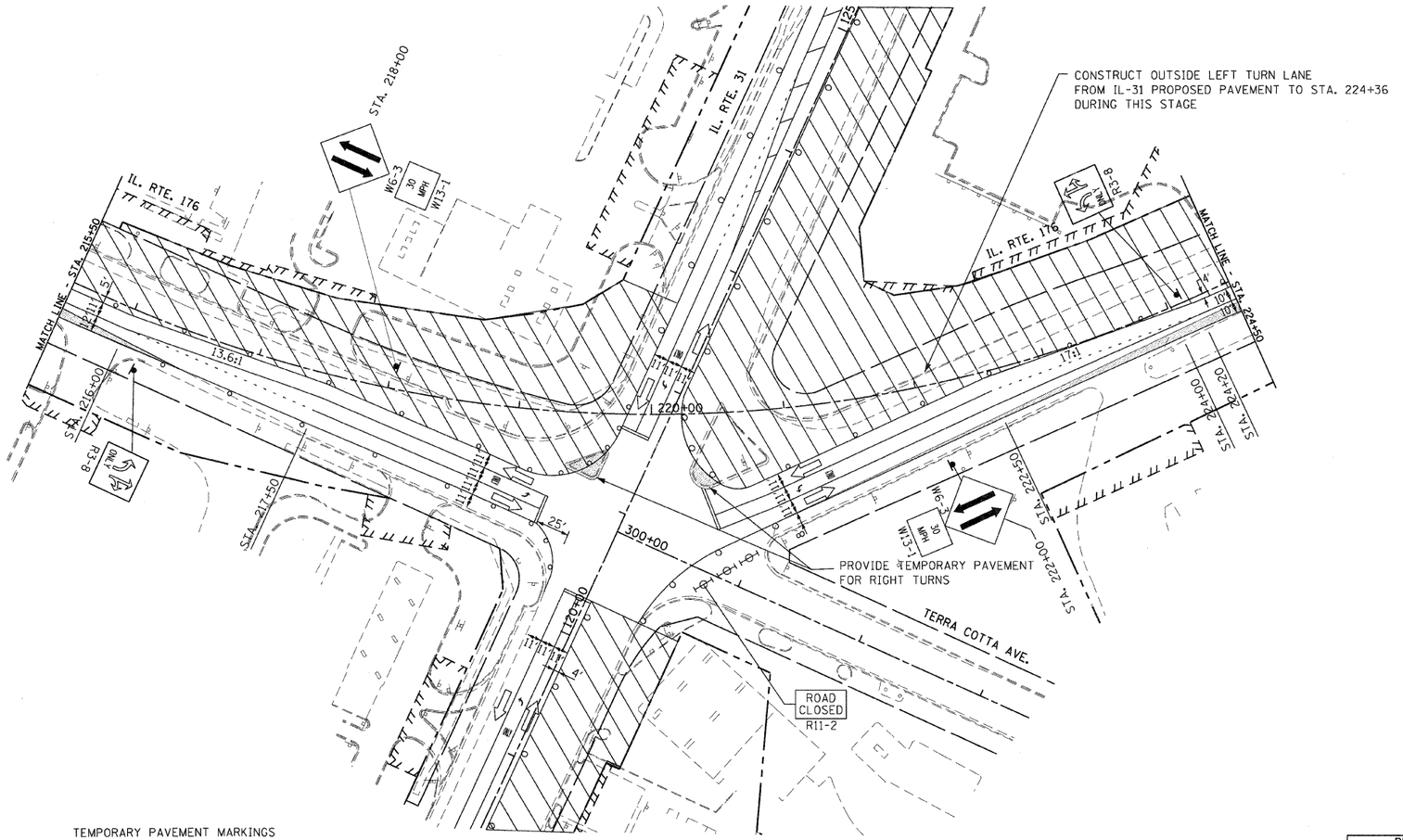
DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	49
STA. 215+50	TO STA. 224+50			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

PLAN | SURVEYED | BY | DATE
NOTE BOOK | PLOTTED
NO. | DRAWN BY
CHECKED
QUANTITIES
CADD FILE NAME

PROFILE | SURVEYED | BY | DATE
NOTE BOOK | PLOTTED
NO. | DRAWN BY
CHECKED
QUANTITIES
STRUCTURE NOTATIONS OKAY



MAINTENANCE OF TRAFFIC LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAFFIC
- TEMPORARY CONCRETE BARRIER WALL WITH VERTICAL PANELS AND STEADY BURN LIGHTS @ 50' C-C
- IMPACT ATTENUATOR
- TYPE II BARRICADES OR DRUMS WITH STEADY BURN LIGHTS AT 50' C-C UNLESS OTHERWISE NOTED
  DEVICES IN TAPER (25' C-C)
  DEVICES IN RADII (10' C-C)
- CONSTRUCTION SIGN
- TYPE III BARRICADES WITH FLASHING LIGHTS (2 EACH)
- ARROW BOARD
- TEMPORARY PAVEMENT
- TEMPORARY DRAINAGE

TEMPORARY PAVEMENT MARKINGS

4" EDGE LINE - EACH EDGE (YELLOW FOR INSIDE EDGE, WHITE FOR OUTSIDE EDGE)
4" WHITE SKIP DASH - (30 FT. SKIP-10 FT. DASH) - BETWEEN LANES
4" DOUBLE YELLOW - MEDIANS AND BETWEEN OPPOSING LANES
6" WHITE LANE LINE - STORAGE AREA OF LEFT-TURN BAY
6" WHITE SKIP DASH - (6 FT. SKIP-2 FT. DASH) - LEFT-TURN BAY
12" YELLOW DIAGONALS - (20 FT. C-C) - MEDIANS AND GORES
24" WHITE STOP BAR - ALL LOCATIONS
WHITE LETTERS AND SYMBOLS - TURN LANES

REVISIONS	
NAME	DATE

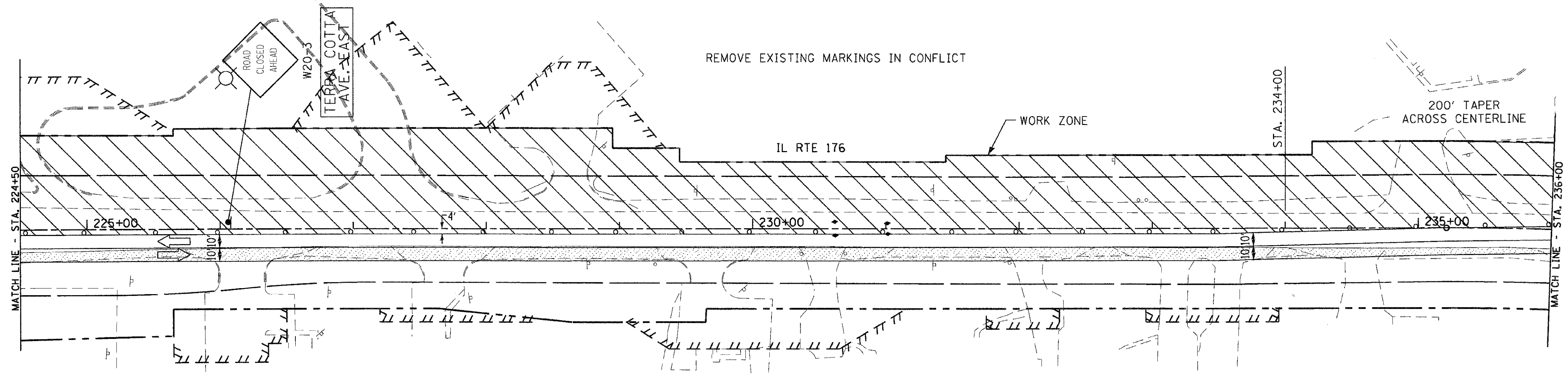
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31 AND IL RTE 176

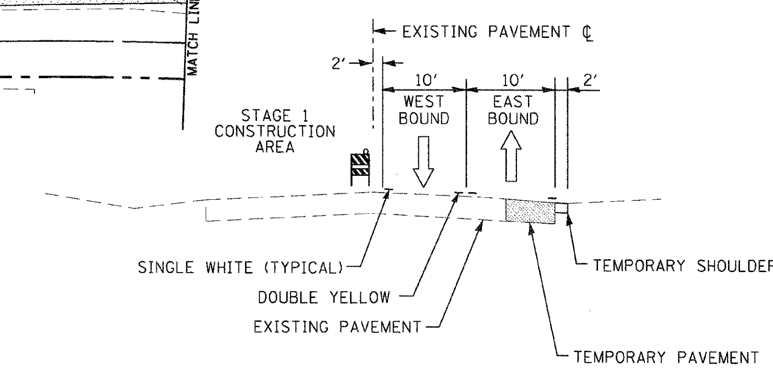
MAINTENANCE OF TRAFFIC STAGE 1

0 50' 100'
1" = 50'

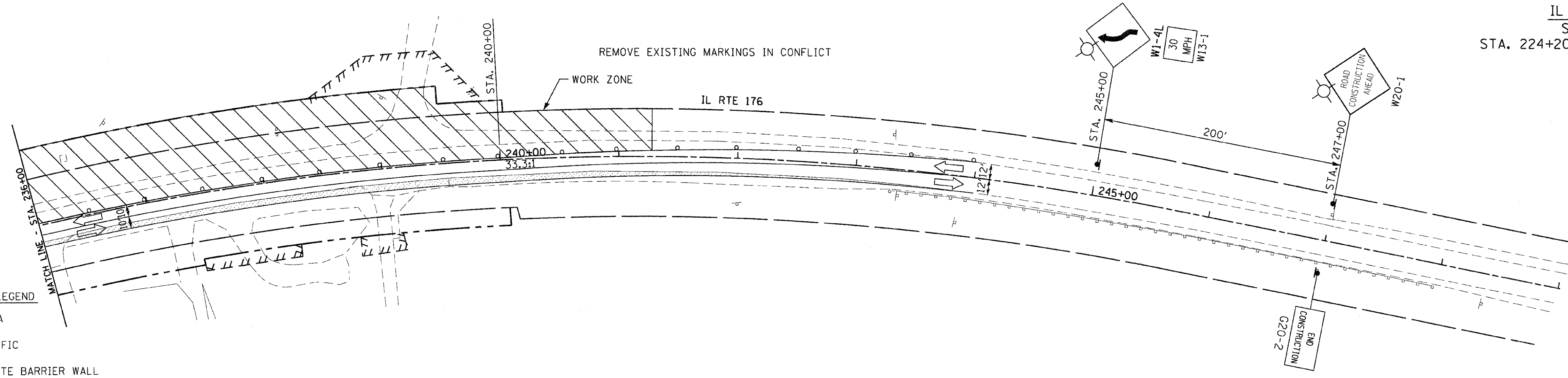
DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	50
STA. 224+50 TO STA. 245+00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62537				





IL RTE 176
STAGE 1
STA. 224+20 TO STA. 244+00



MAINTENANCE OF TRAFFIC LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAFFIC
- TEMPORARY CONCRETE BARRIER WALL WITH VERTICAL PANELS AND STEADY BURN LIGHTS @ 50' C-C
- IMPACT ATTENUATOR
- TYPE II BARRICADES OR DRUMS WITH STEADY BURN LIGHTS AT 50' C-C UNLESS OTHERWISE NOTED DEVICES IN TAPER (25' C-C) DEVICES IN RADII (10' C-C)
- CONSTRUCTION SIGN
- TYPE III BARRICADES WITH FLASHING LIGHTS (2 EACH)
- ARROW BOARD
- TEMPORARY PAVEMENT
- TEMPORARY DRAINAGE

TEMPORARY PAVEMENT MARKINGS

4" EDGE LINE - EACH EDGE (YELLOW FOR INSIDE EDGE, WHITE FOR OUTSIDE EDGE)
4" WHITE SKIP DASH - (30 FT. SKIP-10 FT. DASH) - BETWEEN LANES
4" DOUBLE YELLOW - MEDIANS AND BETWEEN OPPOSING LANES
6" WHITE LANE LINE - STORAGE AREA OF LEFT-TURN BAY
6" WHITE SKIP DASH - (6 FT. SKIP-2 FT. DASH) - LEFT-TURN BAY
12" YELLOW DIAGONALS - (20 FT. C-C) - MEDIANS AND GORES
24" WHITE STOP BAR - ALL LOCATIONS
WHITE LETTERS AND SYMBOLS - TURN LANES

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31 AND IL RTE 176

MAINTENANCE OF TRAFFIC
STAGE 1

0 50' 100'
1" = 50'

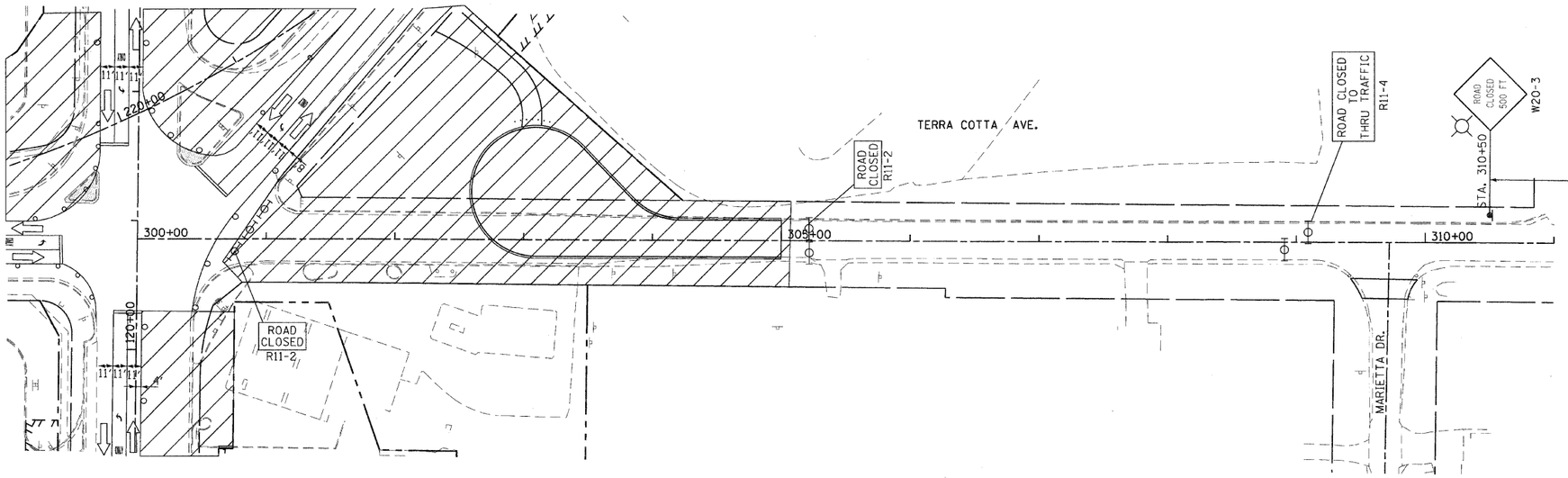
DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / R/W CHECKED / CADD FILE NAME; NOTE BOOK; NO.; BY; DATE

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHKD; NOTE BOOK; NO.; BY; DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	51
STA. 300+00	TO STA. 310+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537



MAINTENANCE OF TRAFFIC LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAFFIC
- TEMPORARY CONCRETE BARRIER WALL WITH VERTICAL PANELS AND STEADY BURN LIGHTS @ 50' C-C
- IMPACT ATTENUATOR
- TYPE II BARRICADES OR DRUMS WITH STEADY BURN LIGHTS AT 50' C-C UNLESS OTHERWISE NOTED
  DEVICES IN TAPER (25' C-C)
  DEVICES IN RADII (10' C-C)
- CONSTRUCTION SIGN
- TYPE III BARRICADES WITH FLASHING LIGHTS (2 EACH)
- ARROW BOARD
- TEMPORARY PAVEMENT
- TEMPORARY DRAINAGE

TEMPORARY PAVEMENT MARKINGS

4" EDGE LINE - EACH EDGE (YELLOW FOR INSIDE EDGE, WHITE FOR OUTSIDE EDGE)
4" WHITE SKIP DASH - (30 FT. SKIP-10 FT. DASH) - BETWEEN LANES
4" DOUBLE YELLOW - MEDIANS AND BETWEEN OPPOSING LANES
6" WHITE LANE LINE - STORAGE AREA OF LEFT-TURN BAY
6" WHITE SKIP DASH - (6 FT. SKIP-2 FT. DASH) - LEFT-TURN BAY
12" YELLOW DIAGONALS - (20 FT. C-C) - MEDIANS AND GORES
24" WHITE STOP BAR - ALL LOCATIONS
WHITE LETTERS AND SYMBOLS - TURN LANES

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

MAINTENANCE OF TRAFFIC
STAGE 1 - TERRA COTTA AVENUE

0 50' 100'
1" = 50'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
NOTE BOOK
NO.
CADD FILE NAME
BY
DATE

PROFILE
SURVEYED
PLOTTED
DRAWN CHECKED
NOTE BOOK
NO.
STRUCTURE NO FATRS CHKD
BY
DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	52
STA. 93+00	TO STA. 107+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

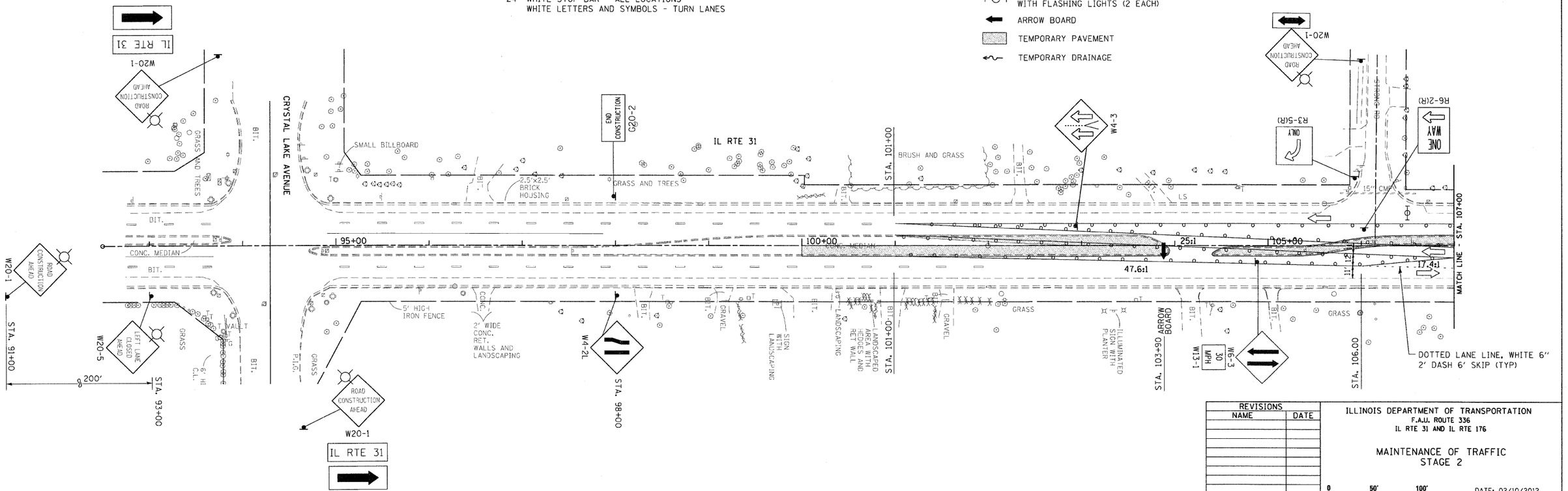
PROFILE
CONVEYED
PLOTTED
GRADES CHECKED
CADD FILE NAME
NOTE BOOK
NO.
STRUCTURE NOTATIONS CHKD
BY
DATE

TEMPORARY PAVEMENT MARKINGS

4" EDGE LINE - EACH EDGE (YELLOW FOR INSIDE EDGE, WHITE FOR OUTSIDE EDGE)
4" WHITE SKIP DASH - (30 FT. SKIP-10 FT. DASH) - BETWEEN LANES
4" DOUBLE YELLOW - MEDIANS AND BETWEEN OPPOSING LANES
6" WHITE LANE LINE - STORAGE AREA OF LEFT-TURN BAY
6" WHITE SKIP DASH - (6 FT. SKIP-2 FT. DASH) - LEFT-TURN BAY
12" YELLOW DIAGONALS - (20 FT. C-C) - MEDIANS AND GORES
24" WHITE STOP BAR - ALL LOCATIONS
WHITE LETTERS AND SYMBOLS - TURN LANES

MAINTENANCE OF TRAFFIC LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAFFIC
- TEMPORARY CONCRETE BARRIER WALL WITH VERTICAL PANELS AND STEADY BURN LIGHTS @ 50' C-C
- IMPACT ATTENUATOR
- TYPE II BARRICADES OR DRUMS WITH STEADY BURN LIGHTS AT 50' C-C UNLESS OTHERWISE NOTED
  DEVICES IN TAPER (25' C-C)
  DEVICES IN RADII (10' C-C)
- CONSTRUCTION SIGN
- TYPE III BARRICADES WITH FLASHING LIGHTS (2 EACH)
- ARROW BOARD
- TEMPORARY PAVEMENT
- TEMPORARY DRAINAGE



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

MAINTENANCE OF TRAFFIC
STAGE 2

0 50' 100'
1" = 50'

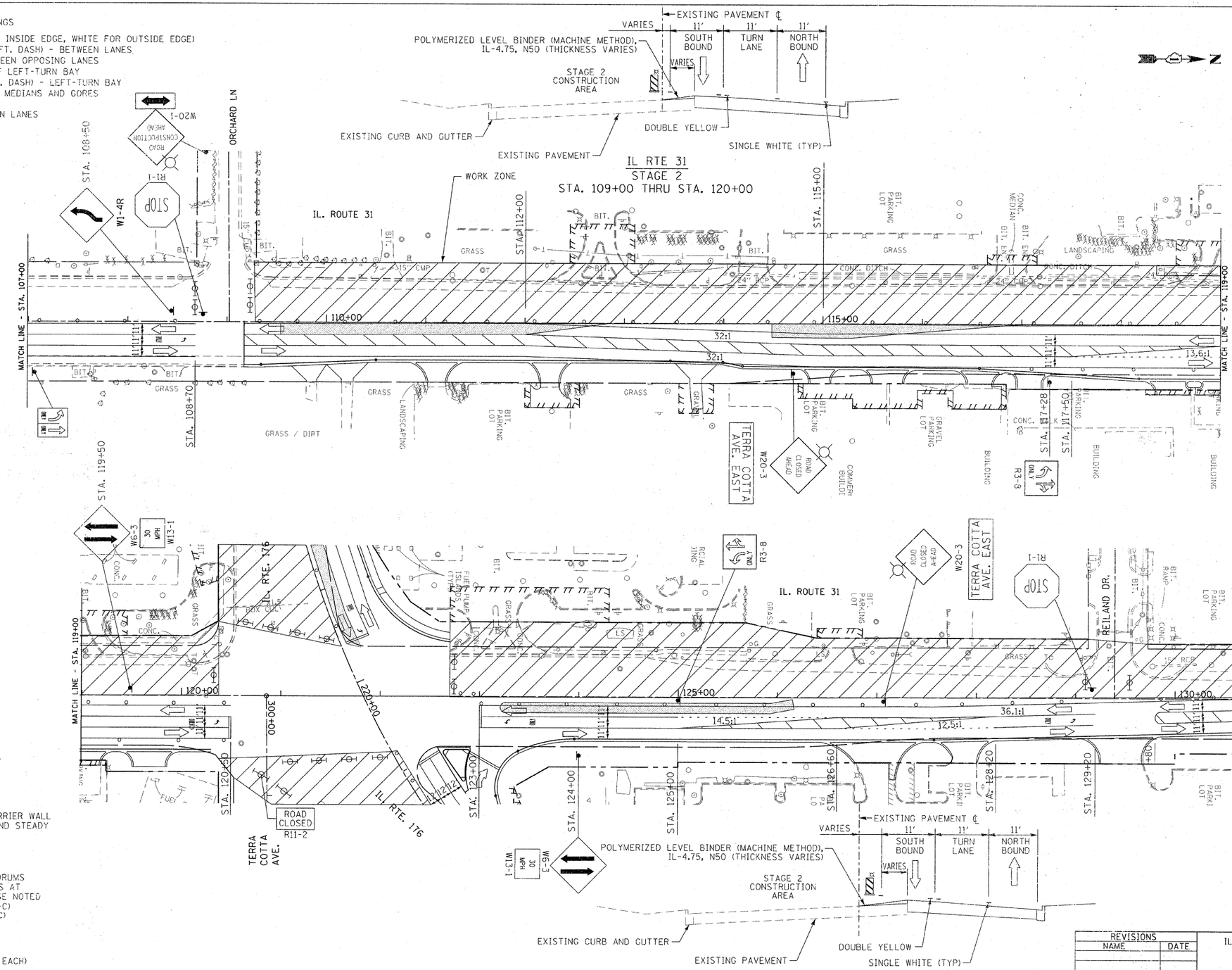
DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	53
STA. 107+00	TO STA. 131+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

TEMPORARY PAVEMENT MARKINGS

4" EDGE LINE - EACH EDGE (YELLOW FOR INSIDE EDGE, WHITE FOR OUTSIDE EDGE)
4" WHITE SKIP DASH - (30 FT. SKIP-10 FT. DASH) - BETWEEN LANES
4" DOUBLE YELLOW - MEDIANS AND BETWEEN OPPOSING LANES
6" WHITE LANE LINE - STORAGE AREA OF LEFT-TURN BAY
6" WHITE SKIP DASH - (6 FT. SKIP-2 FT. DASH) - LEFT-TURN BAY
12" YELLOW DIAGONALS - (20 FT. C-C) - MEDIANS AND GORES
24" WHITE STOP BAR - ALL LOCATIONS
WHITE LETTERS AND SYMBOLS - TURN LANES



MAINTENANCE OF TRAFFIC LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAFFIC
- TEMPORARY CONCRETE BARRIER WALL WITH VERTICAL PANELS AND STEADY BURN LIGHTS @ 50' C-C
- IMPACT ATTENUATOR
- TYPE II BARRICADES OR DRUMS WITH STEADY BURN LIGHTS AT 50' C-C UNLESS OTHERWISE NOTED DEVICES IN TAPER (25' C-C) DEVICES IN RADII (10' C-C)
- CONSTRUCTION SIGN
- TYPE III BARRICADES WITH FLASHING LIGHTS (2 EACH)
- ARROW BOARD
- TEMPORARY PAVEMENT
- TEMPORARY DRAINAGE

IL RTE 31
STAGE 2
STA. 123+00 THRU STA. 131+00

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

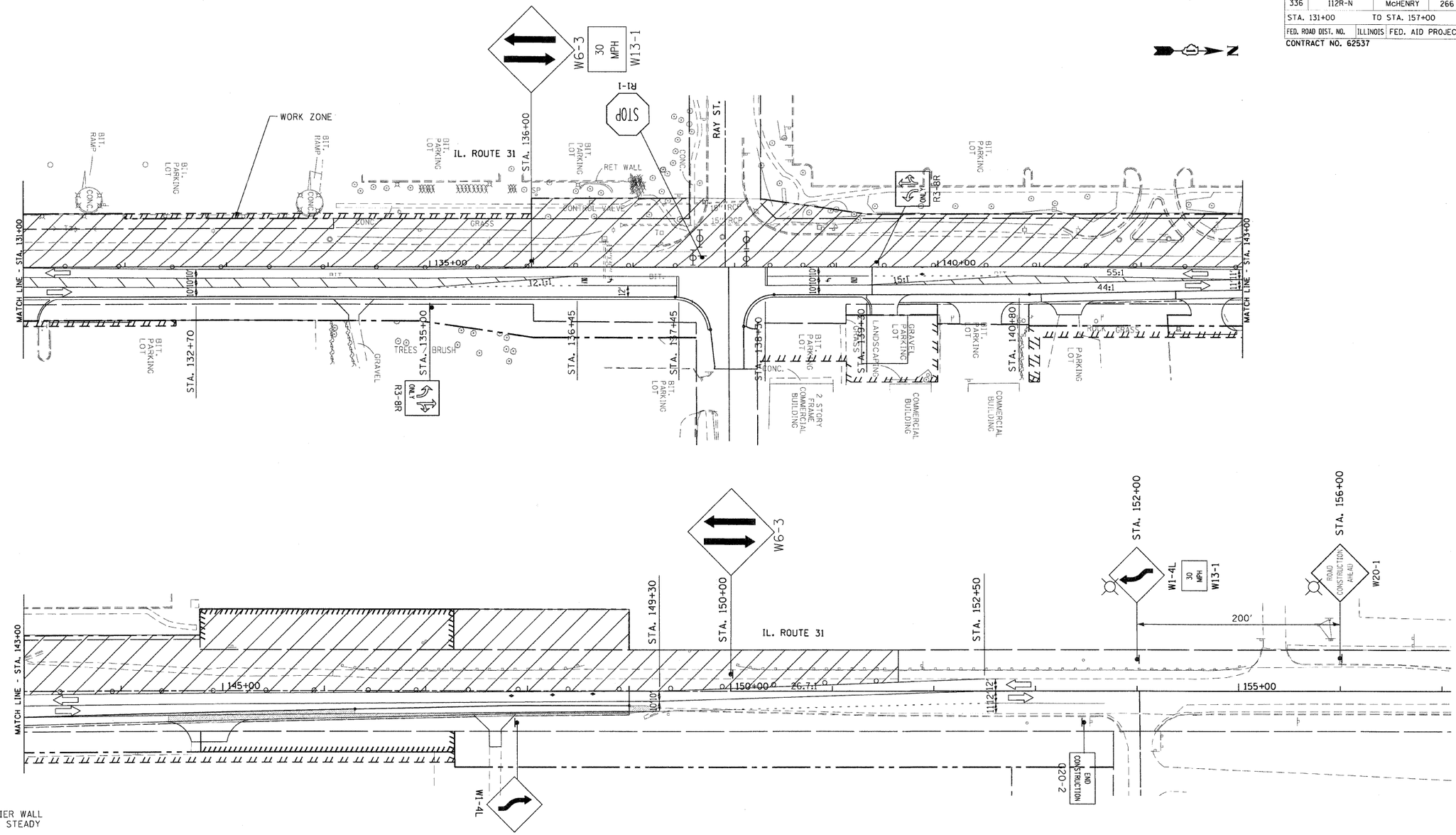
MAINTENANCE OF TRAFFIC
STAGE 2

0 50' 100'
1" = 50'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	54
STA. 131+00		TO STA. 157+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537



MAINTENANCE OF TRAFFIC LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAFFIC
- TEMPORARY CONCRETE BARRIER WALL WITH VERTICAL PANELS AND STEADY BURN LIGHTS @ 50' C-C
- IMPACT ATTENUATOR
- TYPE II BARRICADES OR DRUMS WITH STEADY BURN LIGHTS AT 50' C-C UNLESS OTHERWISE NOTED
  DEVICES IN TAPER (25' C-C)
  DEVICES IN RADII (10' C-C)
- CONSTRUCTION SIGN
- TYPE III BARRICADES WITH FLASHING LIGHTS (2 EACH)
- ARROW BOARD
- TEMPORARY PAVEMENT
- TEMPORARY DRAINAGE

TEMPORARY PAVEMENT MARKINGS

4" EDGE LINE - EACH EDGE (YELLOW FOR INSIDE EDGE, WHITE FOR OUTSIDE EDGE)
4" WHITE SKIP DASH - (30 FT. SKIP-10 FT. DASH) - BETWEEN LANES
4" DOUBLE YELLOW - MEDIANS AND BETWEEN OPPOSING LANES
6" WHITE LANE LINE - STORAGE AREA OF LEFT-TURN BAY
6" WHITE SKIP DASH - (6 FT. SKIP-2 FT. DASH) - LEFT-TURN BAY
12" YELLOW DIAGONALS - (20 FT. C-C) - MEDIANS AND GORES
24" WHITE STOP BAR - ALL LOCATIONS
WHITE LETTERS AND SYMBOLS - TURN LANES

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

MAINTENANCE OF TRAFFIC
STAGE 2

0 50' 100'
1" = 50'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

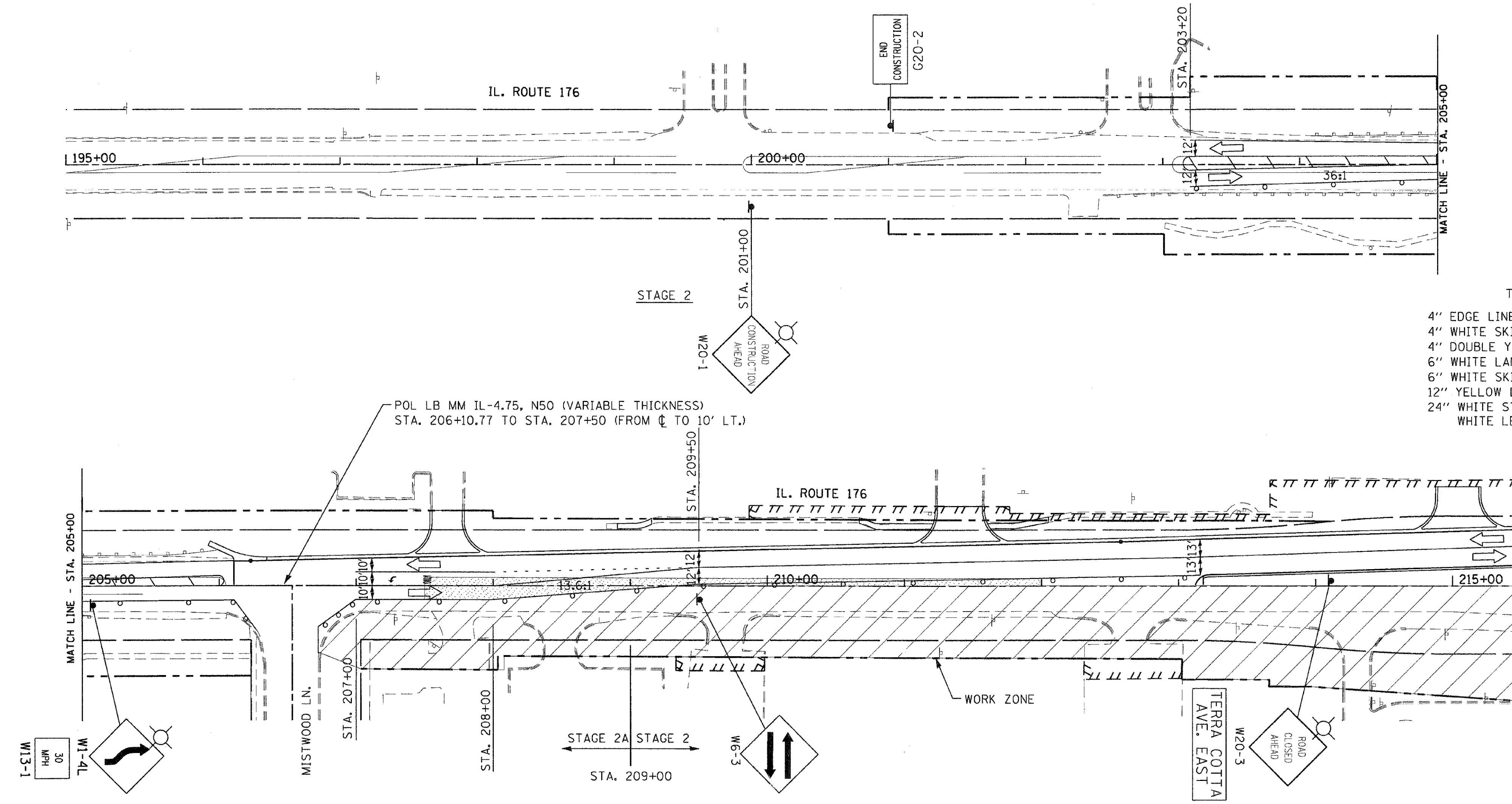
PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
BENCH MARKS
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.
BY
DATE
C_AN
CADD FILE NAME

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	55

STA. 195+00 TO STA. 215+50

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

CONTRACT NO. 62537



TEMPORARY PAVEMENT MARKINGS

4" EDGE LINE - EACH EDGE (YELLOW FOR INSIDE EDGE, WHITE FOR OUTSIDE EDGE)
4" WHITE SKIP DASH - (30 FT. SKIP-10 FT. DASH) - BETWEEN LANES
4" DOUBLE YELLOW - MEDIANS AND BETWEEN OPPOSING LANES
6" WHITE LANE LINE - STORAGE AREA OF LEFT-TURN BAY
6" WHITE SKIP DASH - (6 FT. SKIP-2 FT. DASH) - LEFT-TURN BAY
12" YELLOW DIAGONALS - (20 FT. C-C) - MEDIANS AND GORES
24" WHITE STOP BAR - ALL LOCATIONS
WHITE LETTERS AND SYMBOLS - TURN LANES

MAINTENANCE OF TRAFFIC LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAFFIC
- TEMPORARY CONCRETE BARRIER WALL WITH VERTICAL PANELS AND STEADY BURN LIGHTS @ 50' C-C
- IMPACT ATTENUATOR
- TYPE II BARRICADES OR DRUMS WITH STEADY BURN LIGHTS AT 50' C-C UNLESS OTHERWISE NOTED DEVICES IN TAPER (25' C-C) DEVICES IN RADII (10' C-C)
- CONSTRUCTION SIGN
- TYPE III BARRICADES WITH FLASHING LIGHTS (2 EACH)
- ARROW BOARD
- TEMPORARY PAVEMENT
- TEMPORARY DRAINAGE

STAGE 2:

1) CONSTRUCT EASTBOUND PAVEMENT FROM STA. 209+00 TO THE EAST PROJECT LIMITS. THIS WORK SHALL BE COMPLETED PRIOR TO STAGE 2A CONSTRUCTION.

2) TRAFFIC CONTROL WILL BE PER THE STAGE 2 MAINTENANCE OF TRAFFIC PLAN.

STAGE 2A:

1) CONSTRUCT EASTBOUND PAVEMENT FROM WEST PROJECT LIMITS TO STA. 209+00 AFTER TO STAGE 2 CONSTRUCTION.

2) TRAFFIC CONTROL WILL BE PER THE STAGE 2 MAINTENANCE OF TRAFFIC PLAN, EXCEPT WESTBOUND LEFT TURN LANE TO MISTWOOD LANE WILL BE CLOSED. EASTBOUND THROUGH TURN LANE WILL BE SHIFTED TO USE THE WESTBOUND LEFT TURN LANE PAVEMENT AT MISTWOOD LANE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

MAINTENANCE OF TRAFFIC
STAGE 2

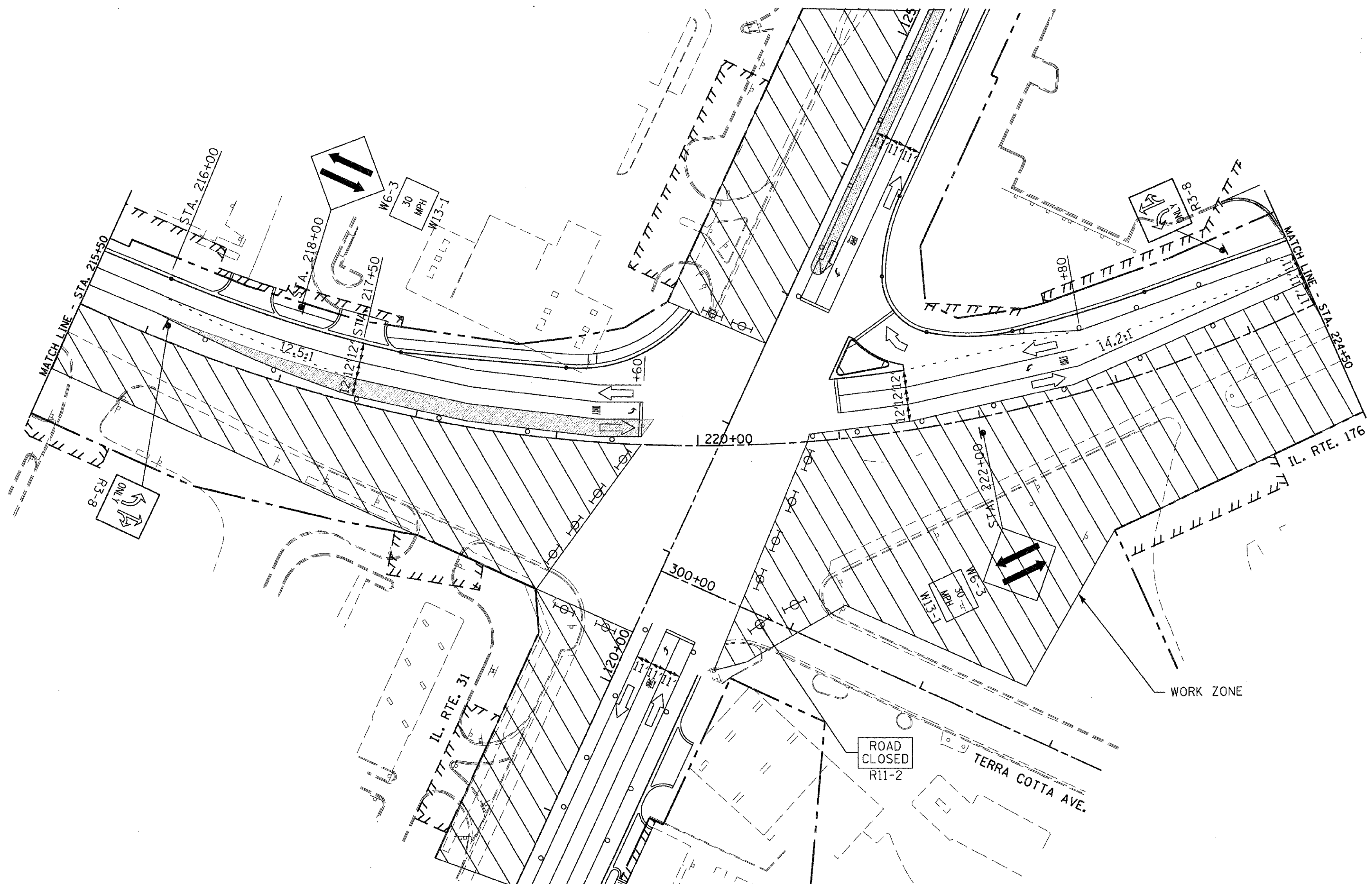
0 50' 100'
1" = 50'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	56
STA. 215+50 TO STA. 224+50				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

N



PLAN		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		
	CADD FILE NAME		

PROFILE		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	GRADES CHECKED		
	B.M. NOTED		
	STRUCTURE NOTATIONS CHK'D		

MAINTENANCE OF TRAFFIC LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAFFIC
- TEMPORARY CONCRETE BARRIER WALL WITH VERTICAL PANELS AND STEADY BURN LIGHTS @ 50' C-C
- IMPACT ATTENUATOR
- TYPE II BARRICADES OR DRUMS WITH STEADY BURN LIGHTS AT 50' C-C UNLESS OTHERWISE NOTED DEVICES IN TAPER (25' C-C) DEVICES IN RADII (10' C-C)
- CONSTRUCTION SIGN
- TYPE III BARRICADES WITH FLASHING LIGHTS (2 EACH)
- ARROW BOARD
- TEMPORARY PAVEMENT
- TEMPORARY DRAINAGE

TEMPORARY PAVEMENT MARKINGS

4" EDGE LINE - EACH EDGE (YELLOW FOR INSIDE EDGE, WHITE FOR OUTSIDE EDGE)
4" WHITE SKIP DASH - (30 FT. SKIP-10 FT. DASH) - BETWEEN LANES
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6" WHITE SKIP DASH - (6 FT. SKIP-2 FT. DASH) - LEFT-TURN BAY
12" YELLOW DIAGONALS - (20 FT. C-C) - MEDIANS AND GORES
24" WHITE STOP BAR - ALL LOCATIONS
WHITE LETTERS AND SYMBOLS - TURN LANES

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31 AND IL RTE 176

MAINTENANCE OF TRAFFIC
STAGE 2

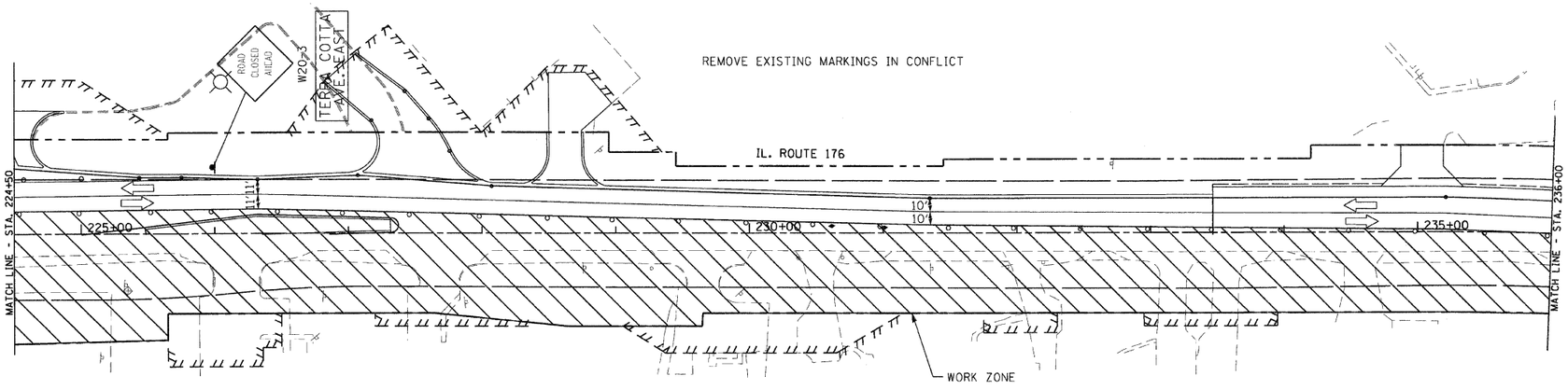
0 50' 100'
1" = 50'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

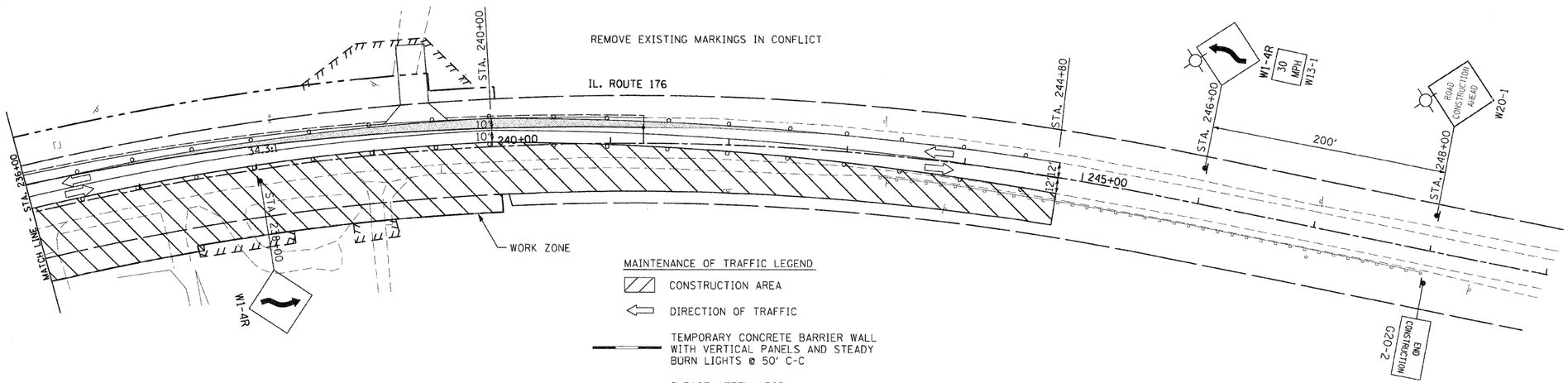
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	57
STA. 224+50	TO STA. 245+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
ALIGNMENT APPROVED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE



PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
ALIGNMENT APPROVED
NOTE BOOK
NO.
STRUCTURE NOTATNS CHKD
BY
DATE



MAINTENANCE OF TRAFFIC LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAFFIC
- TEMPORARY CONCRETE BARRIER WALL WITH VERTICAL PANELS AND STEADY BURN LIGHTS @ 50' C-C
- IMPACT ATTENUATOR
- TYPE II BARRICADES OR DRUMS WITH STEADY BURN LIGHTS AT 50' C-C UNLESS OTHERWISE NOTED
  DEVICES IN TAPER (25' C-C)
  DEVICES IN RADII (10' C-C)
- CONSTRUCTION SIGN
- TYPE III BARRICADES WITH FLASHING LIGHTS (2 EACH)
- ARROW BOARD
- TEMPORARY PAVEMENT
- TEMPORARY DRAINAGE

TEMPORARY PAVEMENT MARKINGS

4" EDGE LINE - EACH EDGE (YELLOW FOR INSIDE EDGE, WHITE FOR OUTSIDE EDGE)
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24" WHITE STOP BAR - ALL LOCATIONS
WHITE LETTERS AND SYMBOLS - TURN LANES

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31 AND IL RTE 176

MAINTENANCE OF TRAFFIC STAGE 2

0 50' 100'
1" = 50'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	58
STA. 93+00 TO STA. 107+00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

PLAN	
SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
CADD FILE NAME	
NOTE BOOK NO.	

PROFILE	
SURVEYED	
PLOTTED	
GRADES CHECKED	
B.M. NOTED	
STRUCTURE NOTATIONS CHKD	
NOTE BOOK NO.	

MAINTENANCE OF TRAFFIC LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAFFIC
- TEMPORARY CONCRETE BARRIER WALL WITH VERTICAL PANELS AND STEADY BURN LIGHTS @ 50' C-C
- IMPACT ATTENUATOR
- TYPE II BARRICADES OR DRUMS WITH STEADY BURN LIGHTS AT 50' C-C UNLESS OTHERWISE NOTED DEVICES IN TAPER (25' C-C) DEVICES IN RADII (10' C-C)
- CONSTRUCTION SIGN
- TYPE III BARRICADES WITH FLASHING LIGHTS (2 EACH)
- ARROW BOARD
- TEMPORARY PAVEMENT
- TEMPORARY DRAINAGE

TEMPORARY PAVEMENT MARKINGS

4" EDGE LINE - EACH EDGE (YELLOW FOR INSIDE EDGE, WHITE FOR OUTSIDE EDGE)
4" WHITE SKIP DASH - (30 FT. SKIP-10 FT. DASH) - BETWEEN LANES
4" DOUBLE YELLOW - MEDIANS AND BETWEEN OPPOSING LANES
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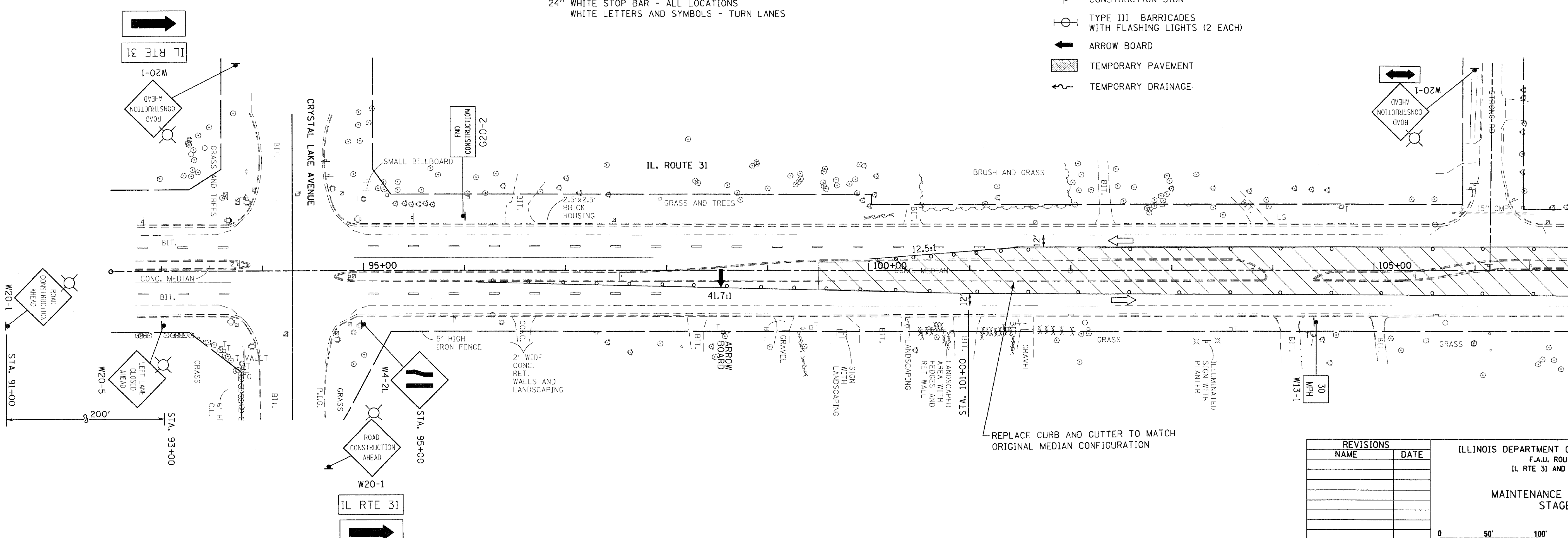
12" YELLOW DIAGONALS - (20 FT. C-C) - MEDIANS AND GORES
24" WHITE STOP BAR - ALL LOCATIONS
WHITE LETTERS AND SYMBOLS - TURN LANES



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

MAINTENANCE OF TRAFFIC
STAGE 3

0 50' 100'
1" = 50'

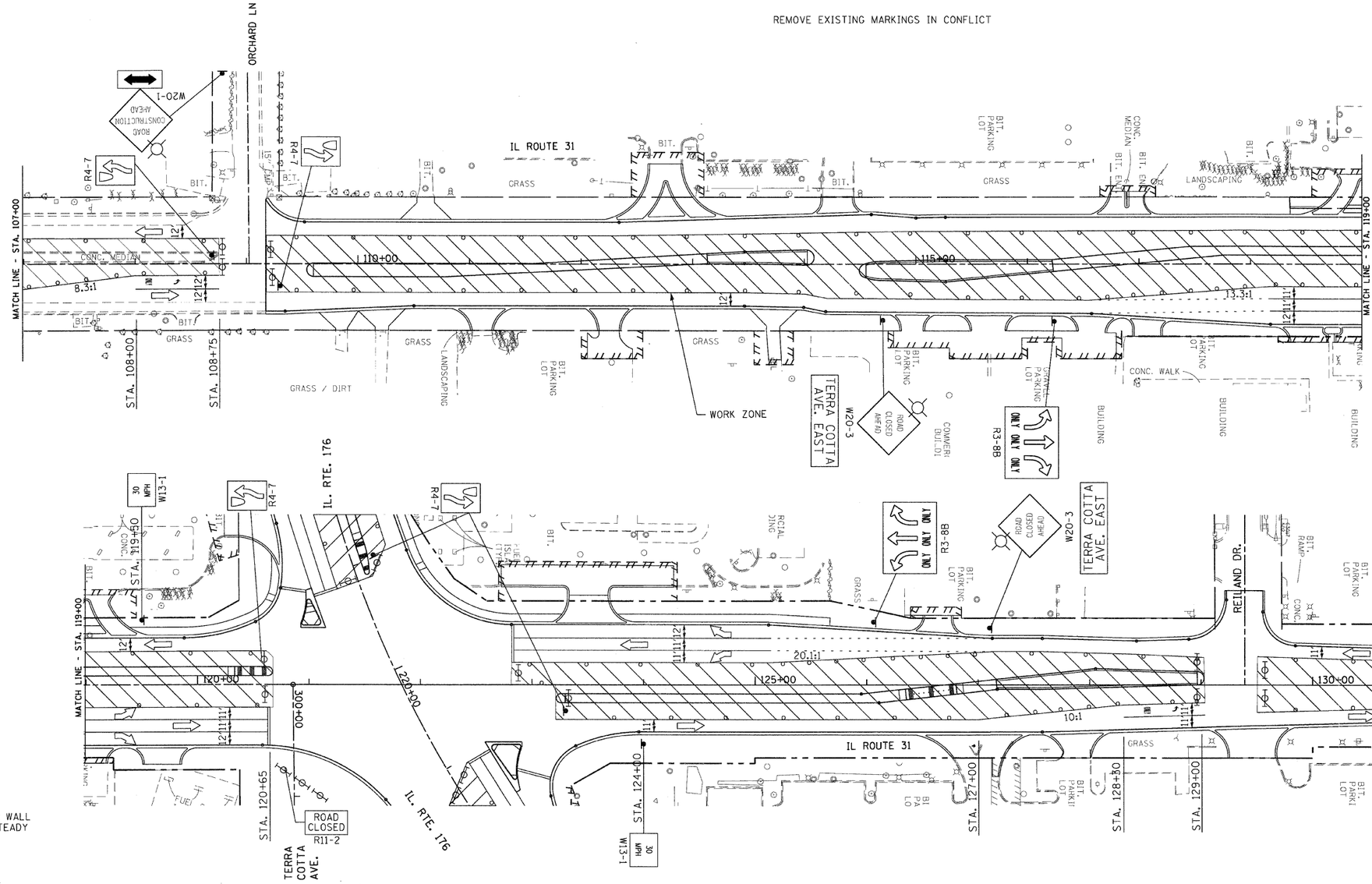
DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	59
STA. 107+00	TO STA. 131+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
GRADES CHECKED		
NOTE BOOK		
NO.		
CADD FILE NAME		

PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
NOTE BOOK		
NO.		
STRUCTURE NOTATIONS CHKD		



MAINTENANCE OF TRAFFIC LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAFFIC
- TEMPORARY CONCRETE BARRIER WALL WITH VERTICAL PANELS AND STEADY BURN LIGHTS @ 50' C-C
- IMPACT ATTENUATOR
- TYPE II BARRICADES OR DRUMS WITH STEADY BURN LIGHTS AT 50' C-C UNLESS OTHERWISE NOTED DEVICES IN TAPER (25' C-C) DEVICES IN RADII (10' C-C)
- CONSTRUCTION SIGN
- TYPE III BARRICADES WITH FLASHING LIGHTS (2 EACH)
- ARROW BOARD
- TEMPORARY PAVEMENT
- TEMPORARY DRAINAGE

TEMPORARY PAVEMENT MARKINGS

4" EDGE LINE - EACH EDGE (YELLOW FOR INSIDE EDGE, WHITE FOR OUTSIDE EDGE)
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4" DOUBLE YELLOW - MEDIANS AND BETWEEN OPPOSING LANES
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12" YELLOW DIAGONALS - (20 FT. C-C) - MEDIANS AND GORES
24" WHITE STOP BAR - ALL LOCATIONS
WHITE LETTERS AND SYMBOLS - TURN LANES

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

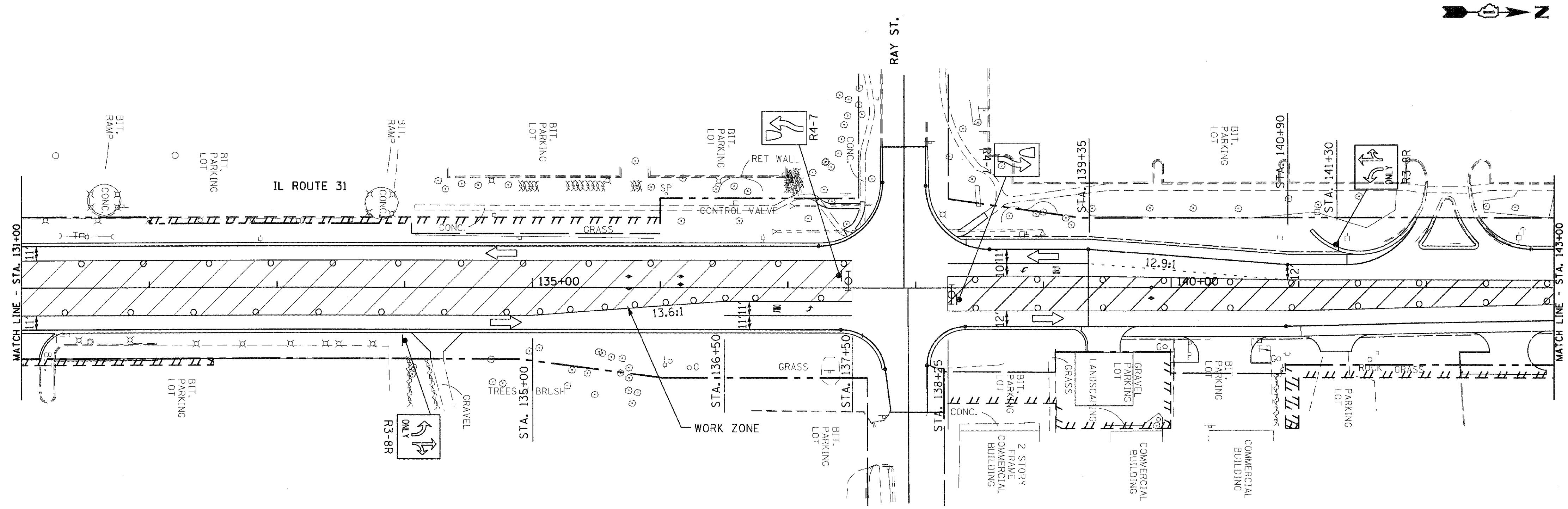
MAINTENANCE OF TRAFFIC
STAGE 3

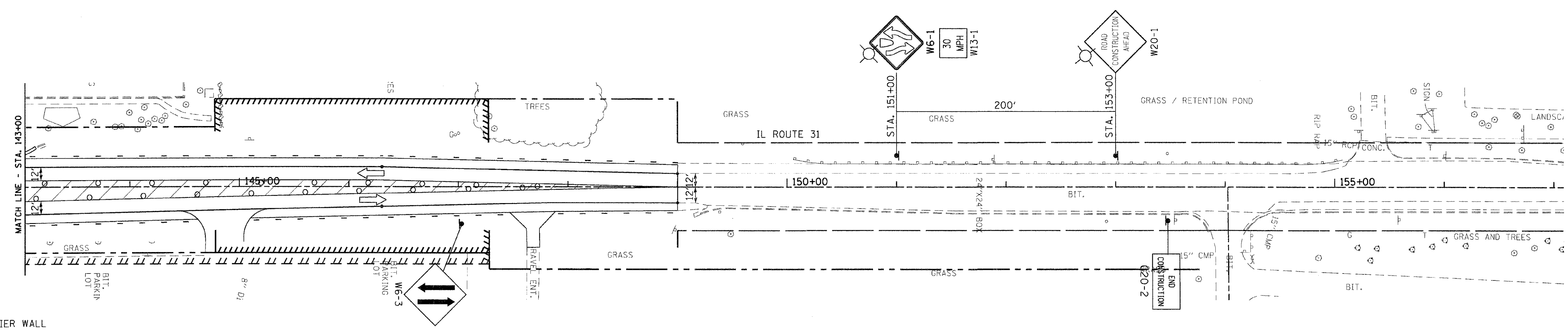
0 50' 100'
1" = 50'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	60
STA. 131+00	TO STA. 157+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537





MAINTENANCE OF TRAFFIC LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAFFIC
- TEMPORARY CONCRETE BARRIER WALL WITH VERTICAL PANELS AND STEADY BURN LIGHTS @ 50' C-C
- IMPACT ATTENUATOR
- TYPE II BARRICADES OR DRUMS WITH STEADY BURN LIGHTS AT 50' C-C UNLESS OTHERWISE NOTED DEVICES IN TAPER (25' C-C) DEVICES IN RADII (10' C-C)
- CONSTRUCTION SIGN
- TYPE III BARRICADES WITH FLASHING LIGHTS (2 EACH)
- ARROW BOARD
- TEMPORARY PAVEMENT
- TEMPORARY DRAINAGE

TEMPORARY PAVEMENT MARKINGS

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24" WHITE STOP BAR - ALL LOCATIONS
WHITE LETTERS AND SYMBOLS - TURN LANES

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

MAINTENANCE OF TRAFFIC
STAGE 3

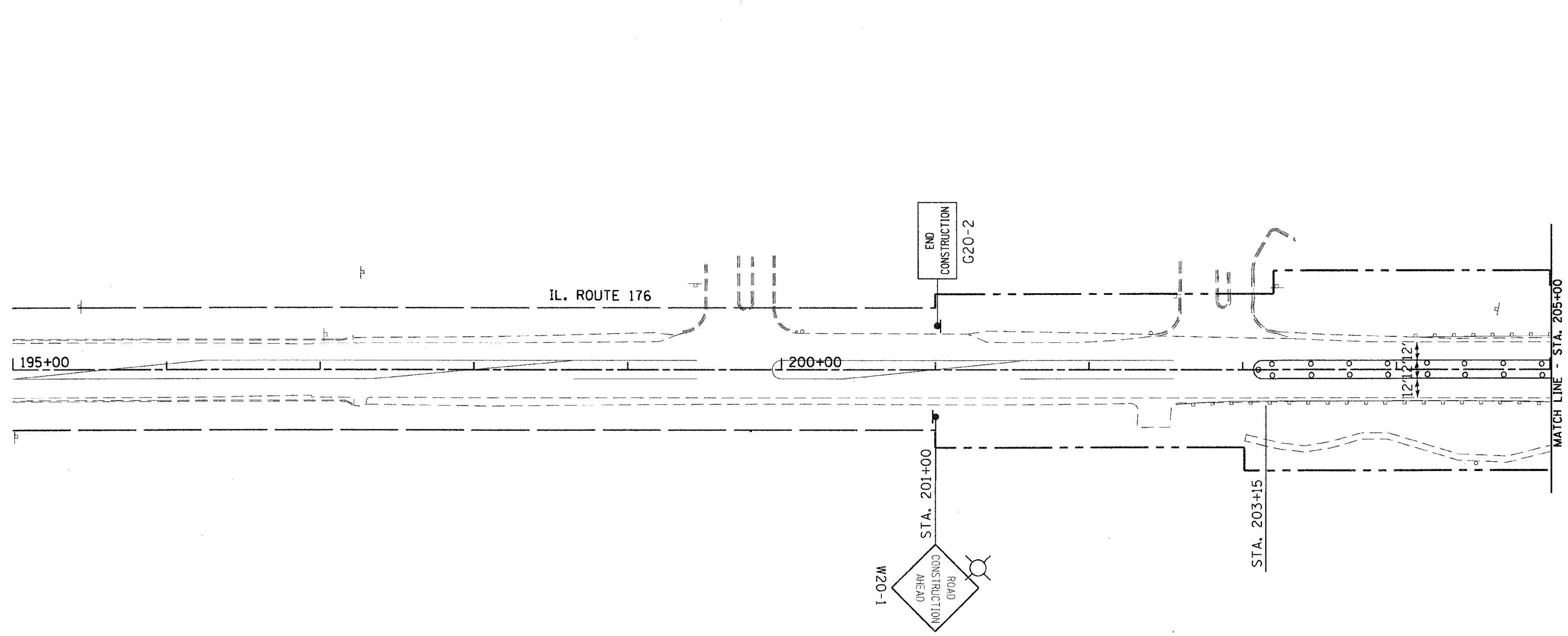
0 50' 100'
1" = 50'

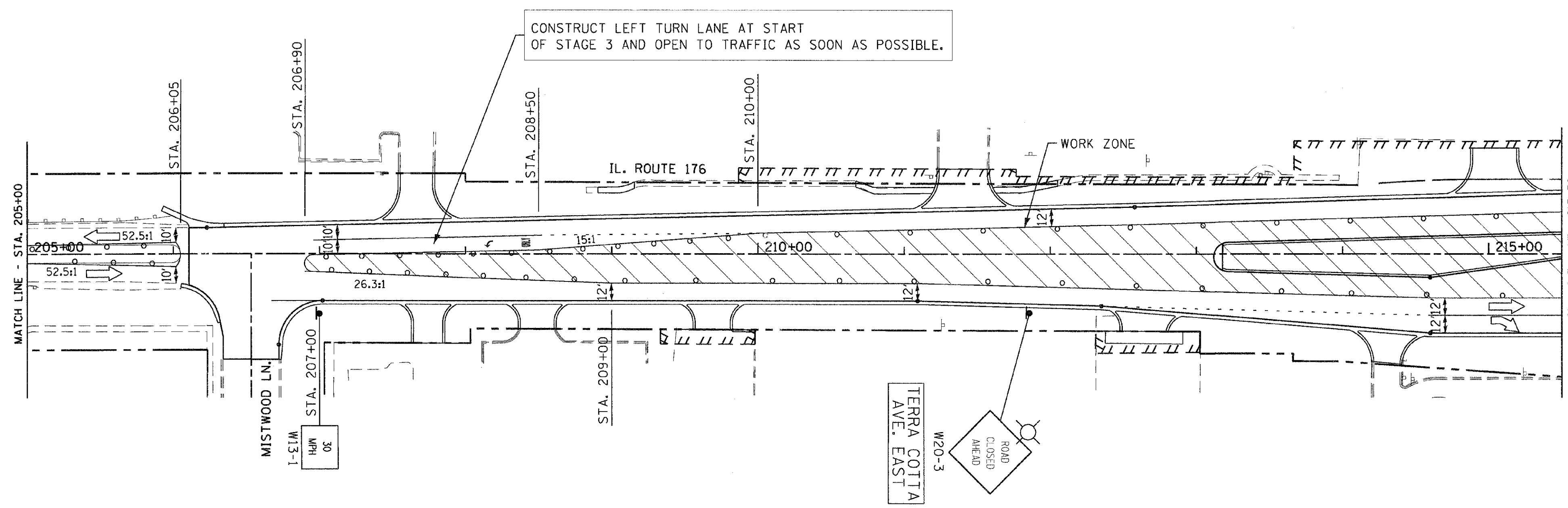
DATE: 12/09/2011
DRAWN BY: SMP
CHECKED BY: SJG

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, R.L. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK NO. — BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK NO. — BY, DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	61
STA. 195+00 TO STA. 215+50				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62537				





MAINTENANCE OF TRAFFIC LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAFFIC
- TEMPORARY CONCRETE BARRIER WALL WITH VERTICAL PANELS AND STEADY BURN LIGHTS @ 50' C-C
- IMPACT ATTENUATOR
- TYPE II BARRICADES OR DRUMS WITH STEADY BURN LIGHTS AT 50' C-C UNLESS OTHERWISE NOTED DEVICES IN TAPER (25' C-C) DEVICES IN RADII (10' C-C)
- CONSTRUCTION SIGN
- TYPE III BARRICADES WITH FLASHING LIGHTS (2 EACH)
- ARROW BOARD
- TEMPORARY PAVEMENT
- TEMPORARY DRAINAGE

TEMPORARY PAVEMENT MARKINGS

4" EDGE LINE - EACH EDGE (YELLOW FOR INSIDE EDGE, WHITE FOR OUTSIDE EDGE)
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24" WHITE STOP BAR - ALL LOCATIONS
WHITE LETTERS AND SYMBOLS - TURN LANES

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

MAINTENANCE OF TRAFFIC
STAGE 3

0 50' 100'
1" = 50'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	ALIGNMENT CHECKED		
	R.T. OF WAY CHECKED		
	CADD FILE NAME		

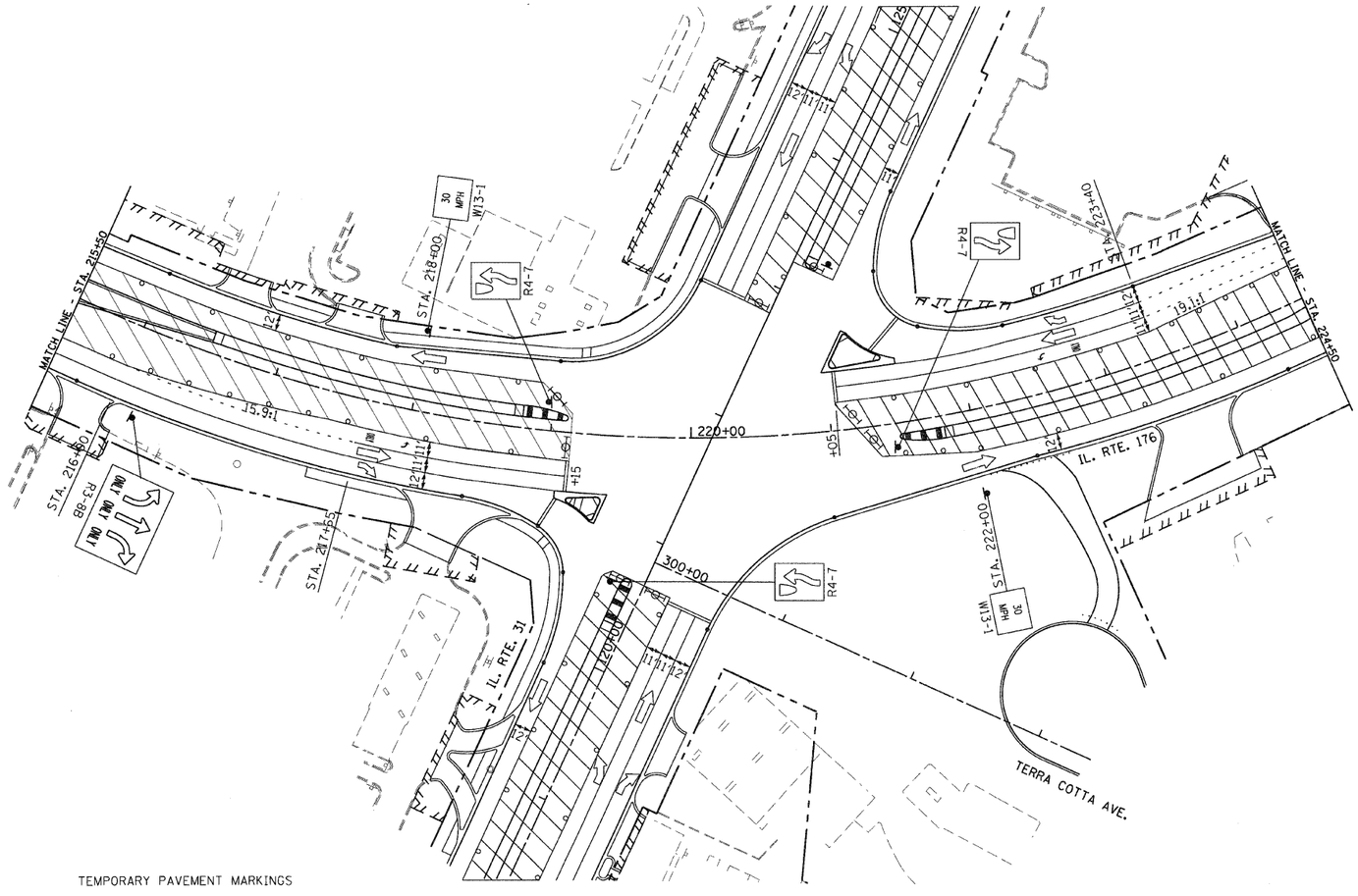
PROFILE	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	GRADES CHECKED		
	B.M. NOTED		
	STRUCTURE NOTATIONS CHK'D		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	62
STA. 215+50	TO STA. 224+50			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

PLAN
SURVEYED
PLOTTED
ALIGNMENTS CHECKED
PROFILES CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
CROSS SECTIONS CHKD
STRUCTURE NOTATIONS CHKD
NOTE BOOK
NO.
BY
DATE



MAINTENANCE OF TRAFFIC LEGEND

- CONSTRUCTION AREA
- DIRECTION OF TRAFFIC
- TEMPORARY CONCRETE BARRIER WALL WITH VERTICAL PANELS AND STEADY BURN LIGHTS @ 50' C-C
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- ARROW BOARD
- TEMPORARY PAVEMENT
- TEMPORARY DRAINAGE

TEMPORARY PAVEMENT MARKINGS

4" EDGE LINE - EACH EDGE (YELLOW FOR INSIDE EDGE, WHITE FOR OUTSIDE EDGE)
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24" WHITE STOP BAR - ALL LOCATIONS
WHITE LETTERS AND SYMBOLS - TURN LANES

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31 AND IL RTE 176

MAINTENANCE OF TRAFFIC STAGE 3

0 50' 100'
1" = 50'

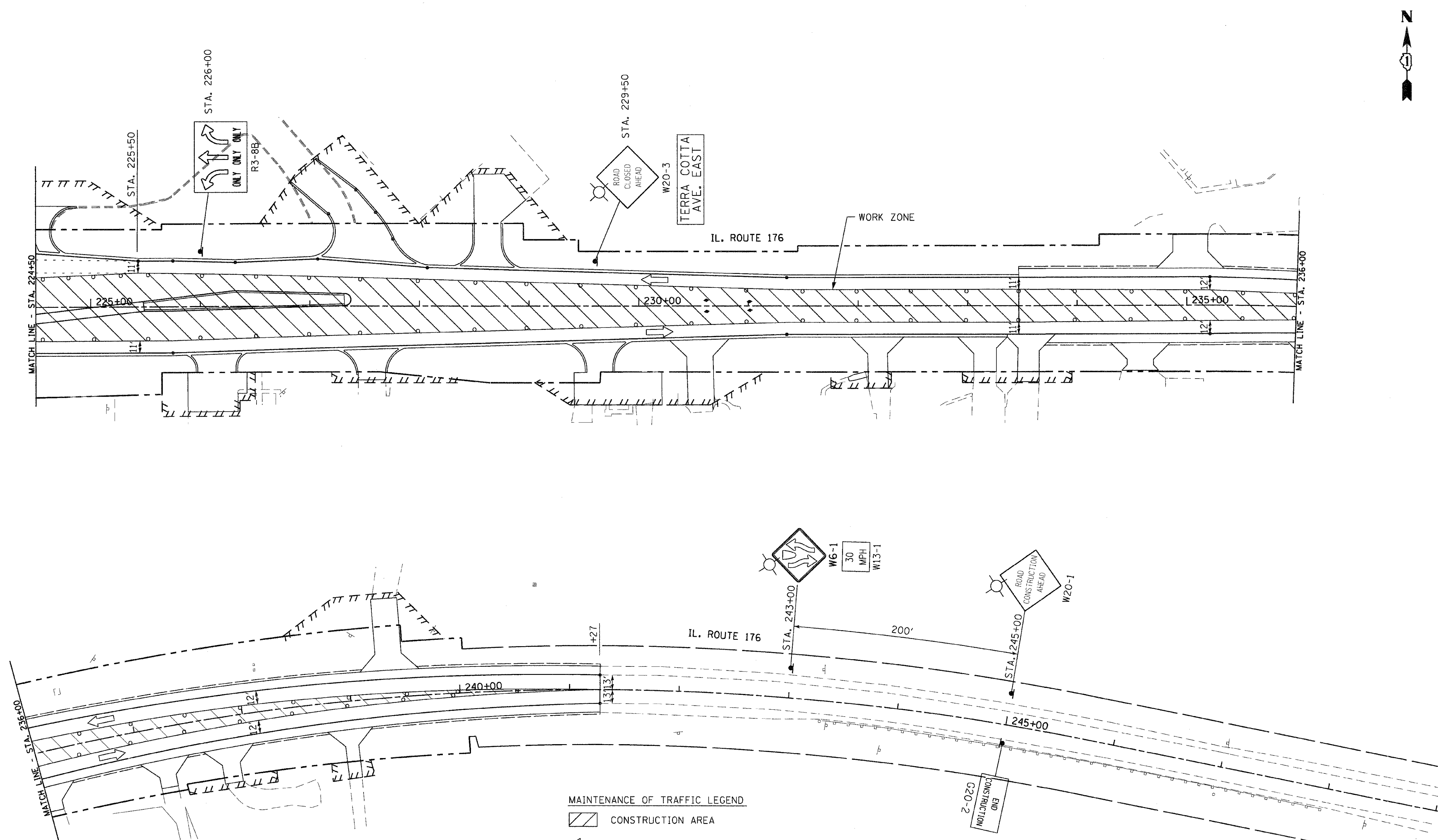
DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	63

STA. 224+50 TO STA. 245+00

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

CONTRACT NO. 62537



MAINTENANCE OF TRAFFIC LEGEND

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- ARROW BOARD
- TEMPORARY PAVEMENT
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TEMPORARY PAVEMENT MARKINGS

4" EDGE LINE - EACH EDGE (YELLOW FOR INSIDE EDGE, WHITE FOR OUTSIDE EDGE)
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31 AND IL RTE 176

MAINTENANCE OF TRAFFIC
STAGE 3

0 50' 100'
1" = 50'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	64
STA. 93+00 TO STA. 107+00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62537				

N

PLAN	
NOTE BOOK	SURVEYED
NO.	PLOTTED
	ALIGNMENT CHECKED
	R.O.W. CHECKED
	CARD FILE NAME

PROFILE	
NOTE BOOK	SURVEYED
NO.	PLOTTED
	GRADES CHECKED
	B.M. NOTED
	STRUCTURE NOTATNS CHK'D

STORMWATER POLLUTION PREVENTION LEGEND

- SEDIMENT CONTROL, SILT FENCE (S.F.)
- CONSTRUCTION FENCE
- TEMPORARY EROSION CONTROL SEEDING
- INLET AND PIPE PROTECTION
- INLET FILTERS (EXISTING DRAINAGE STRUCTURES)
- INLET FILTERS (PROPOSED DRAINAGE STRUCTURES)
- TEMPORARY DITCH CHECK
- SEDIMENT BASIN
- EROSION CONTROL BLANKET
- DRAINAGE STRUCTURES

TEMPORARY EROSION CONTROL NOTES

1. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE LAND IS OTHERWISE DISTURBED ON THE SITE.

2. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN 3 DAYS, THEN SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSTALLED DURING CONSTRUCTION.

3. STORM SEWER INLETS SHALL BE PROTECTED WITH SEDIMENT TRAPPING OR FILTER CONTROL DEVICES DURING CONSTRUCTION.

4. THE QUANTITIES SHOWN FOR ALL EROSION CONTROL MEASURES INCLUDE THE INSTALLATION, MAINTENANCE, AND REMOVAL OF THE MEASURE.

5. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES IN SERVICEABLE CONDITION AT ALL TIMES. EROSION CONTROL MEASURES WILL BE INSPECTED ON A WEEKLY BASIS AND WITHIN 24 HOURS OF ANY STORM EXCEEDING 0.5 INCHES OF PRECIPITATION. DURING THE WINTER MONTHS, EROSION CONTROL MEASURES WILL ALSO BE INSPECTED AFTER SIGNIFICANT SNOW MELT EVENTS.

6. ALL CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORM WATER PERMIT FOR THIS PROJECT.

7. AS WORK PROGRESSES, ALL SLOPES 3:1 OR GREATER SHALL RECEIVE TEMPORARY EROSION CONTROL SEEDING AND EROSION CONTROL BLANKET IMMEDIATELY. ALL FLATTER AREAS THAT DO NOT HAVE A COVER OF VEGETATION, AND WHERE NO FURTHER WORK IS TO OCCUR FOR 14 DAYS OR MORE, SHALL BE TEMPORARILY SEEDED WITHIN SEVEN (7) CALENDAR DAYS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. A SUFFICIENT QUANTITY OF TEMPORARY EROSION CONTROL SEEDING IS INCLUDED TO COVER THE LIMITS OF PERMANENT LANDSCAPING.

8. TEMPORARY DITCH CHECKS SHALL BE PLACED IMMEDIATELY AFTER DITCH GRADING (OR CLEANING AND REGRADING) IS COMPLETED.

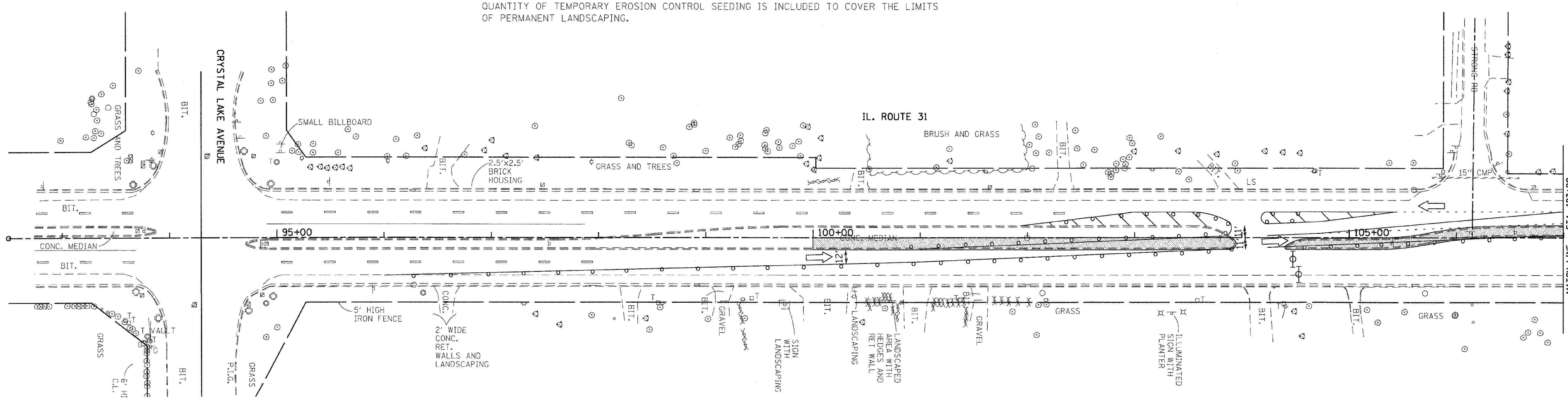
9. ALL PROPOSED OPEN LID DRAINAGE STRUCTURES SHALL BE PROTECTED AS DIRECTED BY THE ENGINEER WITH INLET FILTERS, AND THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "INLET FILTERS". ALL OPEN END CULVERTS SHALL BE PROTECTED AS DIRECTED BY THE ENGINEER, WHICH WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "INLET AND PIPE PROTECTION". "INLET AND PIPE PROTECTION" SHALL BE COMPRISED OF DITCH CHECKS, TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL BLANKET. STRAW BALES AND SILT FENCE SHALL NOT BE USED AS INLET AND PIPE PROTECTION.

10. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED.

11. ANY SOIL, MUD OR DEBRIS WASHED, TRACKED, OR DEPOSITED ONTO THE STREET SHALL BE REMOVED PRIOR TO THE END OF THE WORK DAY.

12. SILT FENCE IS NOT REQUIRED WHERE THE PERIMETER IS HIGHER THAN THE WORK ZONE, AND SILT FENCE SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW, OR ACROSS CONTOURS WITHOUT J-HOOKS (HIGHWAY STANDARD 280001). IN AREAS OF CONCENTRATED FLOW, TEMPORARY DITCH CHECKS ARE A SUITABLE ALTERNATIVE PERIMETER EROSION BARRIER IN PLACE OF THE SILT FENCE.

13. PORTABLE TOILETS SHALL BE PLACED AWAY FROM INLETS AND WATER COURSES.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

EROSION AND SEDIMENT CONTROL PLAN STAGE 1

0 50' 100'
1" = 50'

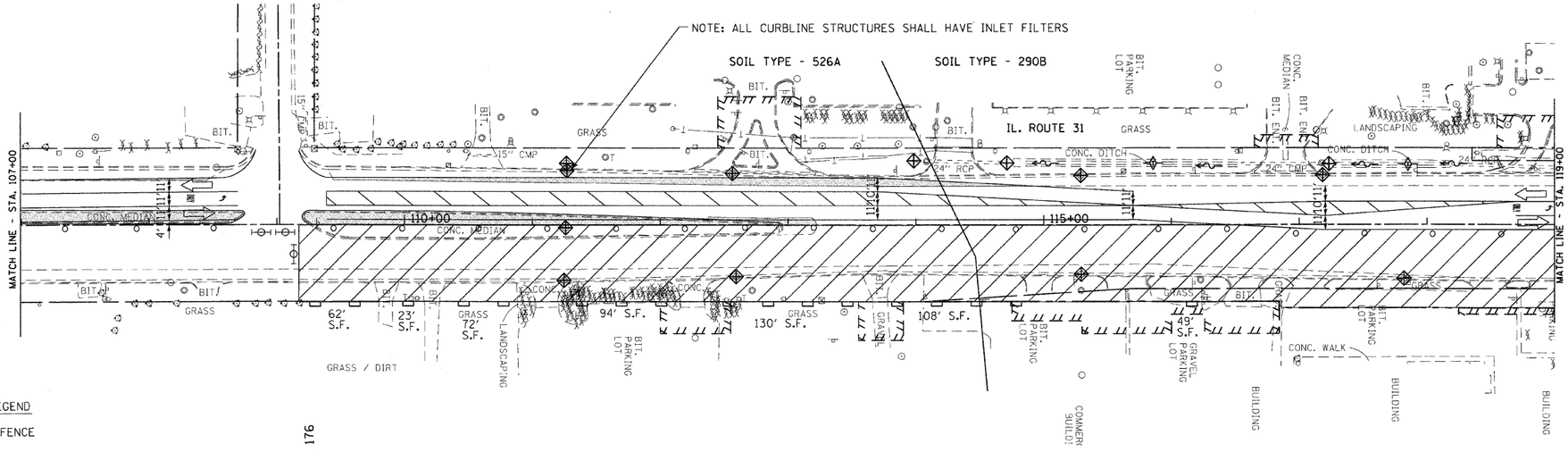
DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

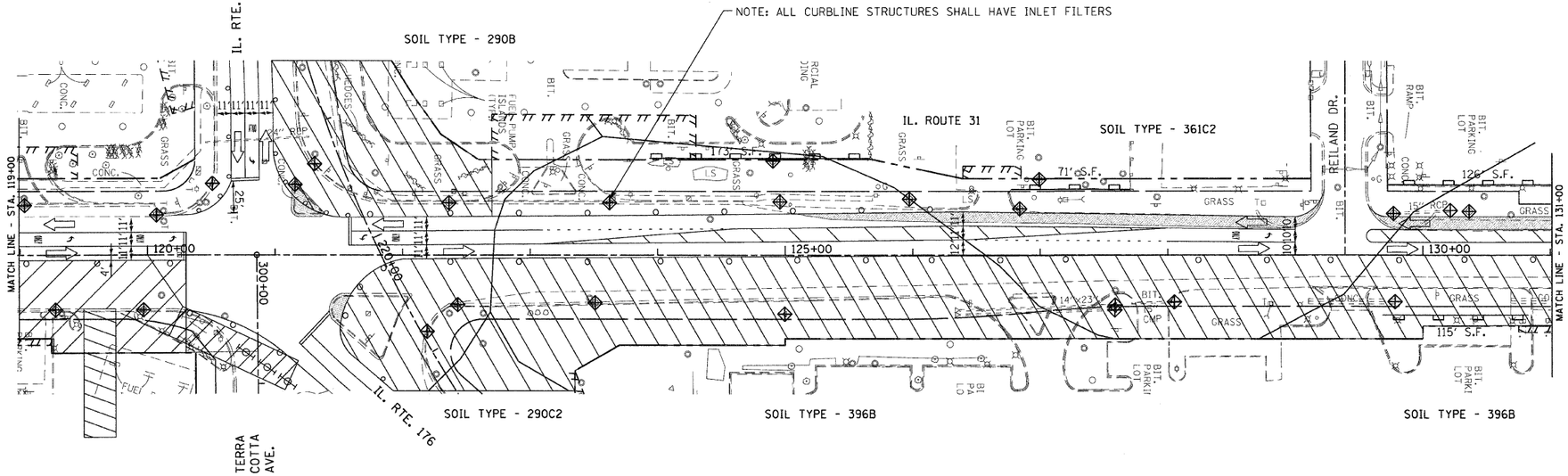
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	65
STA. 107+00	TO STA. 131+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
GRADES CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
NOTE BOOK
NO.
STRUCTURE NO(S)/RS CHKD
BY
DATE





STORMWATER POLLUTION PREVENTION LEGEND

- SEDIMENT CONTROL, SILT FENCE (S.F.)
- CONSTRUCTION FENCE
- TEMPORARY EROSION CONTROL SEEDING
- INLET AND PIPE PROTECTION
- INLET FILTERS (EXISTING DRAINAGE STRUCTURES)
- INLET FILTERS (PROPOSED DRAINAGE STRUCTURES)
- TEMPORARY DITCH CHECK
- SEDIMENT BASIN
- EROSION CONTROL BLANKET
- DRAINAGE STRUCTURES

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

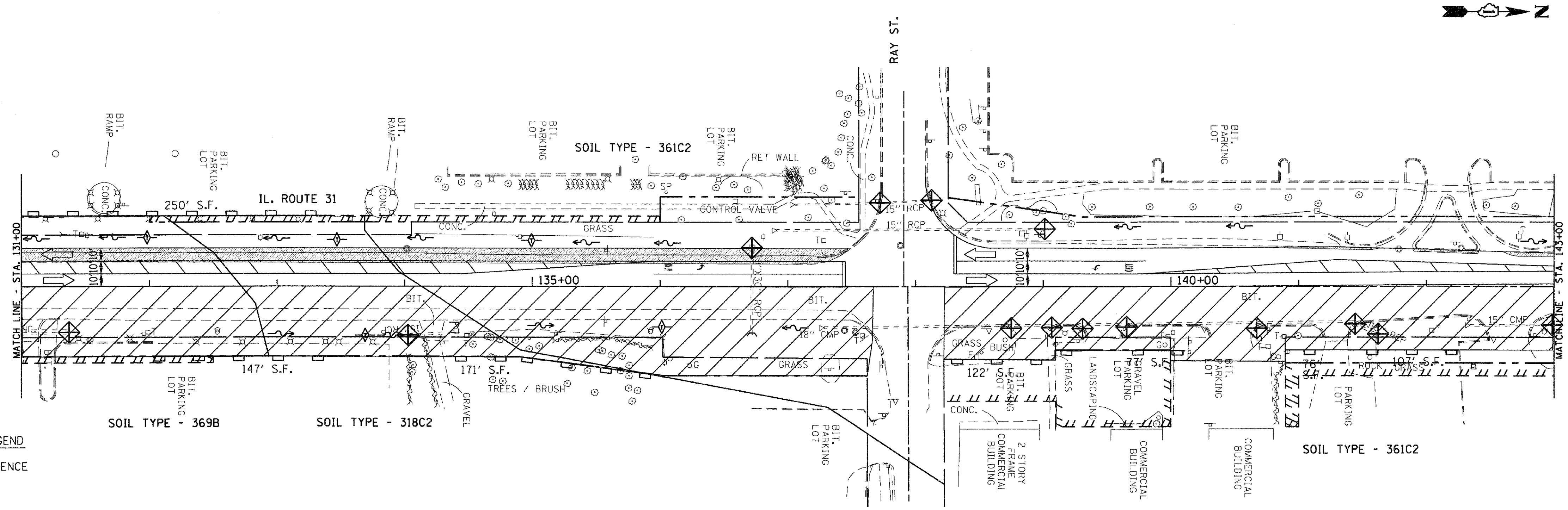
EROSION AND SEDIMENT CONTROL PLAN STAGE 1

0 50' 100'
1" = 50'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	66
STA. 131+00		TO STA. 157+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

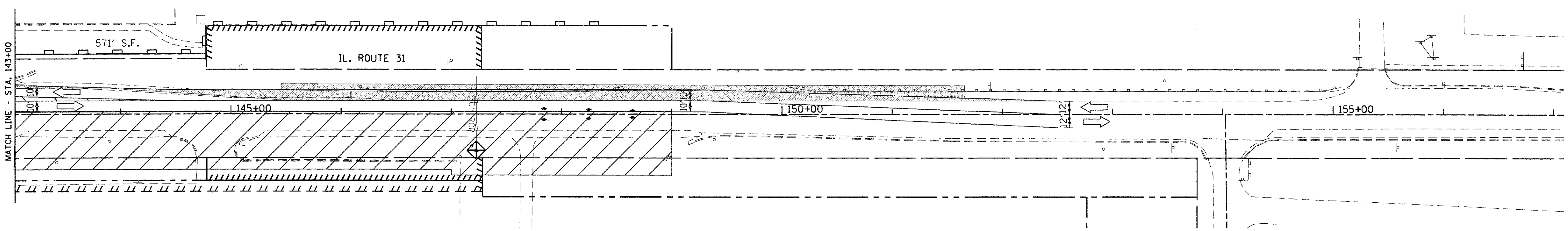
CONTRACT NO. 62537



STORMWATER POLLUTION PREVENTION LEGEND

- SEDIMENT CONTROL, SILT FENCE (S.F.)
- CONSTRUCTION FENCE
- TEMPORARY EROSION CONTROL SEEDING
- INLET AND PIPE PROTECTION
- INLET FILTERS (EXISTING DRAINAGE STRUCTURES)
- INLET FILTERS (PROPOSED DRAINAGE STRUCTURES)
- TEMPORARY DITCH CHECK
- SEDIMENT BASIN
- EROSION CONTROL BLANKET
- DRAINAGE STRUCTURES

SOIL TYPE - 361C2



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

EROSION AND SEDIMENT CONTROL PLAN
STAGE 1

0 50' 100'
1" = 50'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, R.O.W. CHECKED, CADD FILE NAME, NOTE BOOK, NO. — BY — DATE

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATIONS CHK'D, NOTE BOOK, NO. — BY — DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	67
STA. 195+00	TO STA. 215+50			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62537				

TEMPORARY EROSION CONTROL NOTES

1. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE LAND IS OTHERWISE DISTURBED ON THE SITE.

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3. STORM SEWER INLETS SHALL BE PROTECTED WITH SEDIMENT TRAPPING OR FILTER CONTROL DEVICES DURING CONSTRUCTION.

4. THE QUANTITIES SHOWN FOR ALL EROSION CONTROL MEASURES INCLUDE THE INSTALLATION, MAINTENANCE, AND REMOVAL OF THE MEASURE.

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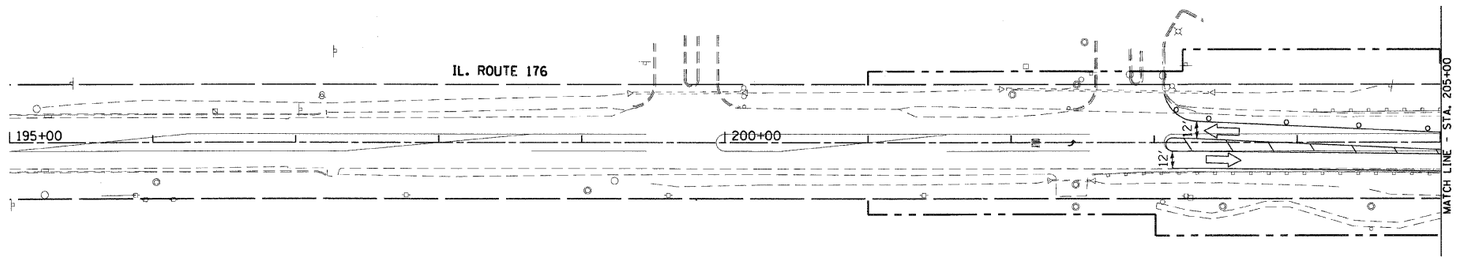
N



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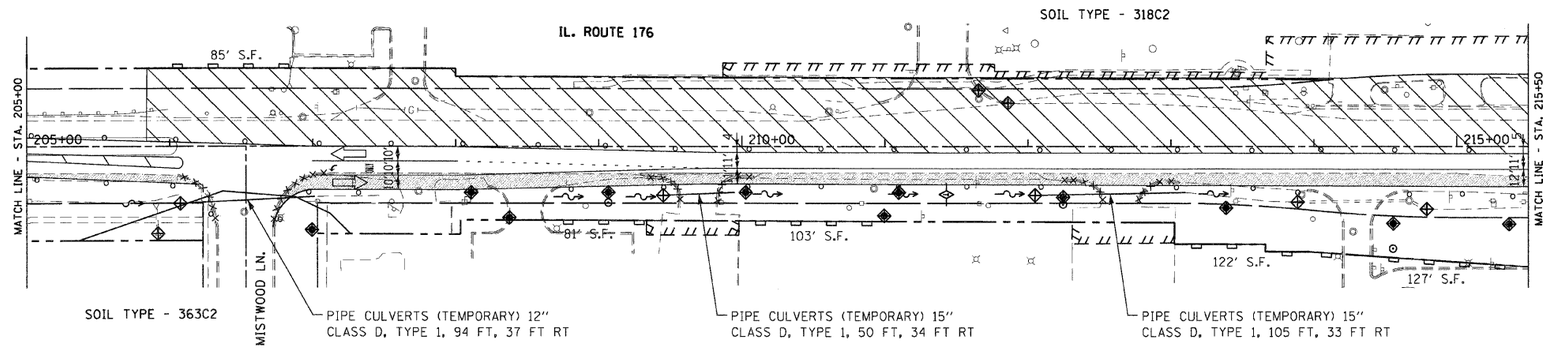
STORMWATER POLLUTION PREVENTION LEGEND

- SEDIMENT CONTROL, SILT FENCE (S.F.)
- CONSTRUCTION FENCE
- TEMPORARY EROSION CONTROL SEEDING
- INLET AND PIPE PROTECTION
- INLET FILTERS (EXISTING DRAINAGE STRUCTURES)
- INLET FILTERS (PROPOSED DRAINAGE STRUCTURES)
- TEMPORARY DITCH CHECK
- SEDIMENT BASIN
- EROSION CONTROL BLANKET
- DRAINAGE STRUCTURES



PLAN — SURVEYED, PLOTTED, ALIGNMENTS CHECKED, GRADES CHECKED, R.O.W. MONUMENTED, NOTE BOOK, NO., CADD FILE NAME, BY, DATE

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, R.O.W. MONUMENTED, NOTE BOOK, NO., STRUCTURE NOTATIONS CHKD, BY, DATE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

EROSION AND SEDIMENT CONTROL PLAN
STAGE 1

0 50' 100'
1" = 50'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	68

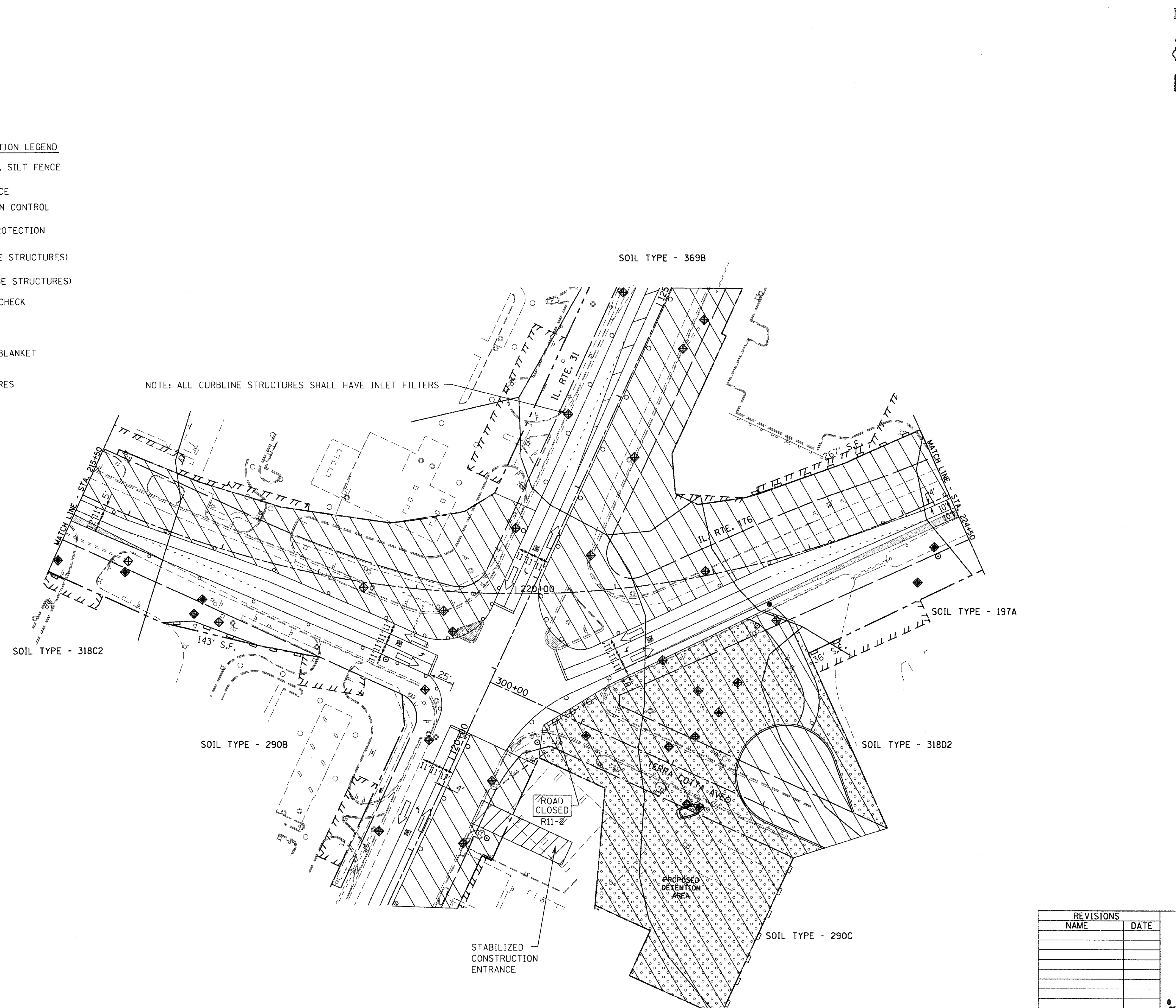
STA. 215+50 TO STA. 224+50

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

CONTRACT NO. 62537

STORMWATER POLLUTION PREVENTION LEGEND

- SEDIMENT CONTROL, SILT FENCE (S.F.)
- CONSTRUCTION FENCE
- TEMPORARY EROSION CONTROL SEEDING
- INLET AND PIPE PROTECTION
- INLET FILTERS (EXISTING DRAINAGE STRUCTURES)
- INLET FILTERS (PROPOSED DRAINAGE STRUCTURES)
- TEMPORARY DITCH CHECK
- SEDIMENT BASIN
- EROSION CONTROL BLANKET
- DRAINAGE STRUCTURES



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31 AND IL RTE 176

EROSION AND SEDIMENT CONTROL PLAN STAGE 1

0 50' 100'
1" = 50'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

PLAN: NOTE BOOK, NO., SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, BY, DATE

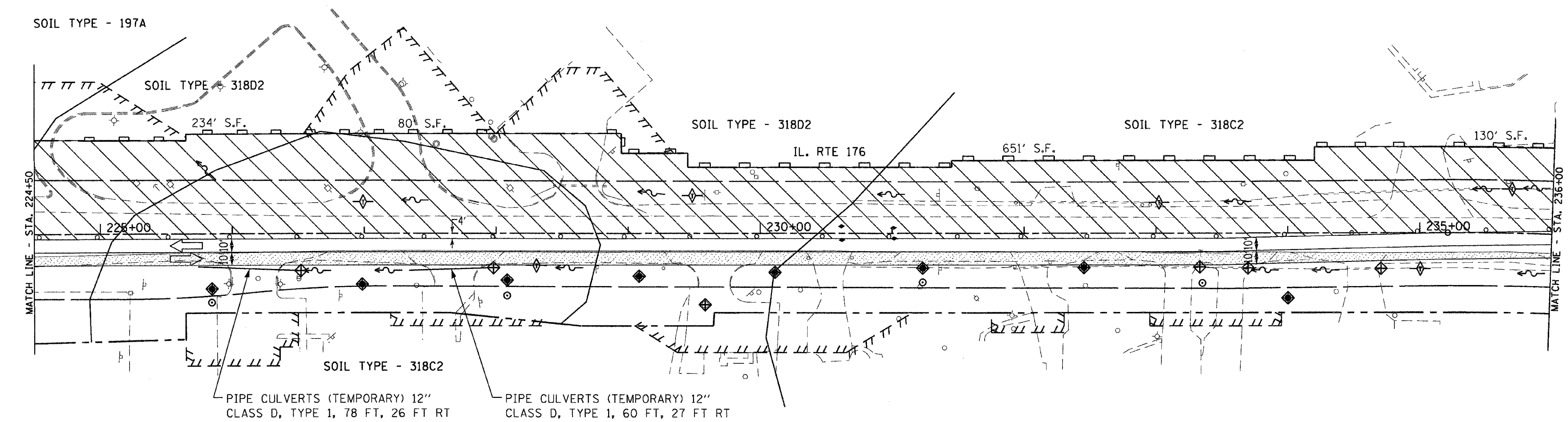
PROFILE: NOTE BOOK, NO., SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATIONS CHKD, BY, DATE

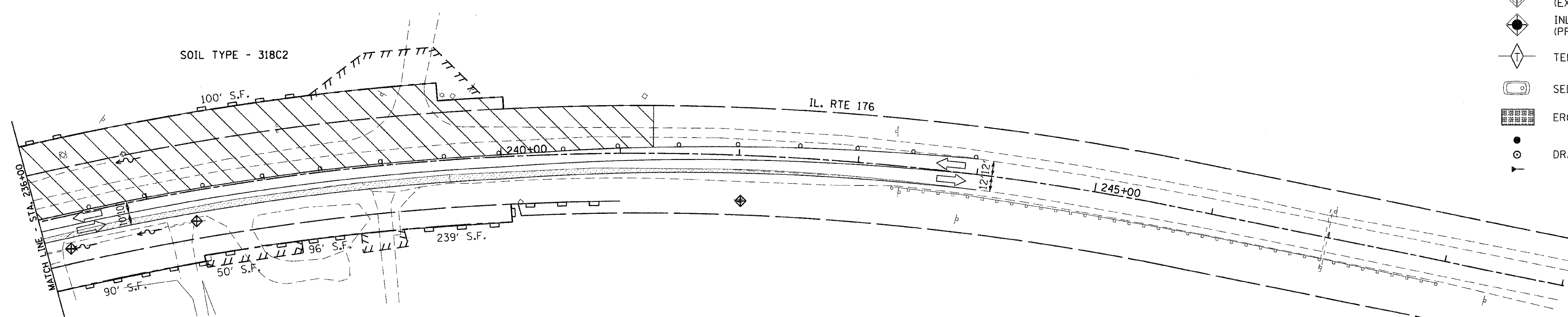
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	69

STA. 224+50 TO STA. 245+00

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

CONTRACT NO. 62537





STORMWATER POLLUTION PREVENTION LEGEND

- SEDIMENT CONTROL, SILT FENCE (S.F.)
- CONSTRUCTION FENCE
- TEMPORARY EROSION CONTROL SEEDING
- INLET AND PIPE PROTECTION
- INLET FILTERS (EXISTING DRAINAGE STRUCTURES)
- INLET FILTERS (PROPOSED DRAINAGE STRUCTURES)
- TEMPORARY DITCH CHECK
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- EROSION CONTROL BLANKET
- DRAINAGE STRUCTURES

PLAN — NOTE BOOK NO. — SURVEYED, PLOTTED, ALIGNMENT CHECKED, R/W CHECKED, LAID FILE NAME — BY — DATE

PROFILE — NOTE BOOK NO. — SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTAT'NS CHK'D — BY — DATE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31 AND IL RTE 176

EROSION AND SEDIMENT CONTROL PLAN STAGE 1

0 50' 100' — 1" = 50'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	70
STA. 300+00	TO STA. 310+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62537				

STORMWATER POLLUTION PREVENTION LEGEND

- SEDIMENT CONTROL, SILT FENCE (S.F.)
- CONSTRUCTION FENCE
- TEMPORARY EROSION CONTROL SEEDING
- INLET AND PIPE PROTECTION
- INLET FILTERS (EXISTING DRAINAGE STRUCTURES)
- INLET FILTERS (PROPOSED DRAINAGE STRUCTURES)
- TEMPORARY DITCH CHECK
- SEDIMENT BASIN
- EROSION CONTROL BLANKET
- DRAINAGE STRUCTURES

TEMPORARY EROSION CONTROL NOTES

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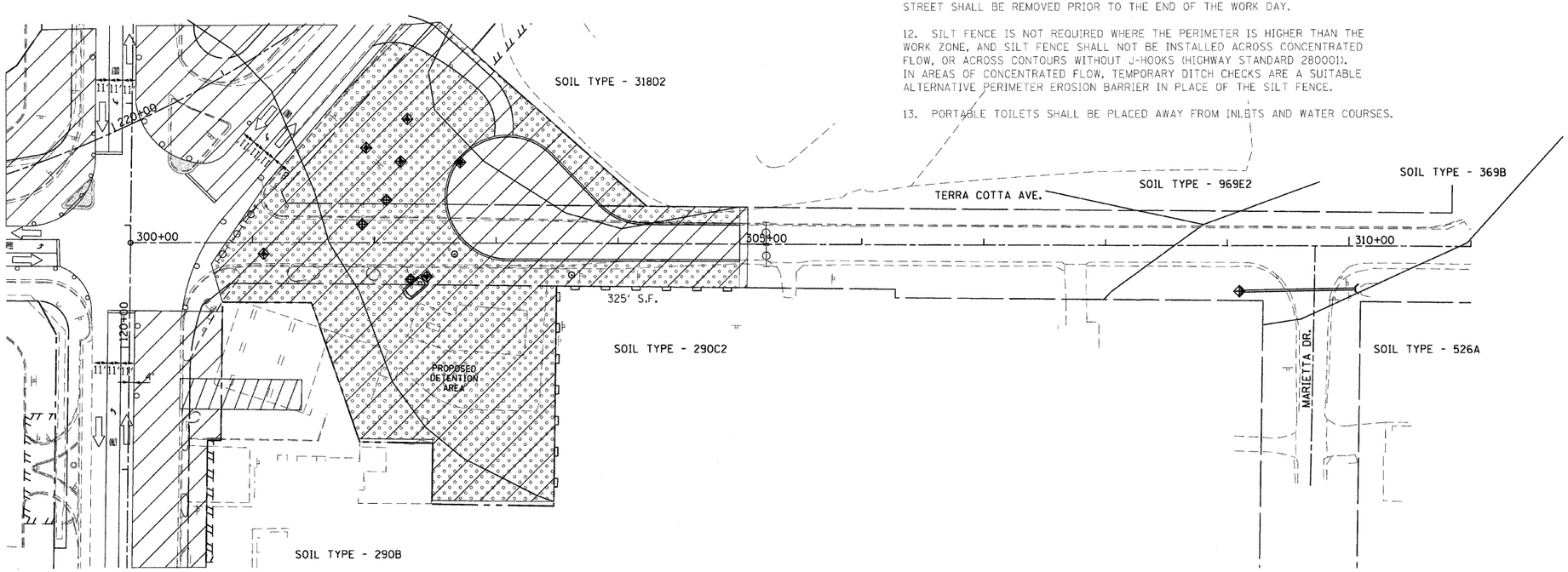
N



PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, GRADES CHECKED, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, NOTE BOOK, NO., BY, DATE

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

EROSION AND SEDIMENT CONTROL PLAN STAGE 1 - TERRA COTTA AVENUE

0 50' 100'
1" = 50'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	71
STA. 93+00	TO STA. 107+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
NOTE BOOK
NO.
CADD FILE NAME
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
NOTE BOOK
NO.
STRUCTURE NO'S/MS CKD
BY
DATE

STORMWATER POLLUTION PREVENTION LEGEND

- SEDIMENT CONTROL, SILT FENCE (S.F.)
- CONSTRUCTION FENCE
- TEMPORARY EROSION CONTROL SEEDING
- INLET AND PIPE PROTECTION
- INLET FILTERS (EXISTING DRAINAGE STRUCTURES)
- INLET FILTERS (PROPOSED DRAINAGE STRUCTURES)
- TEMPORARY DITCH CHECK
- SEDIMENT BASIN
- EROSION CONTROL BLANKET
- DRAINAGE STRUCTURES

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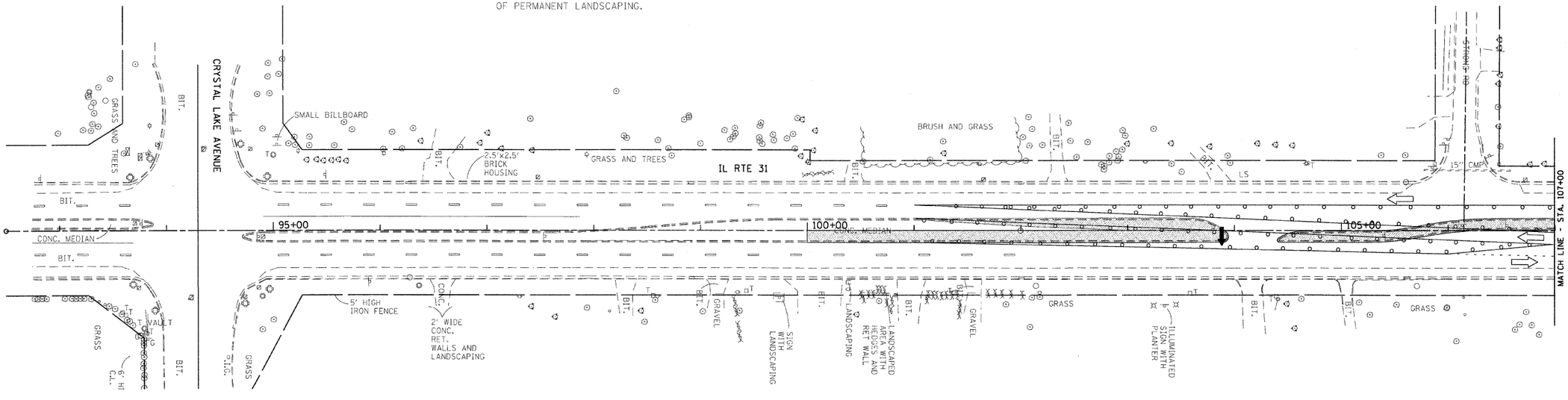


REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

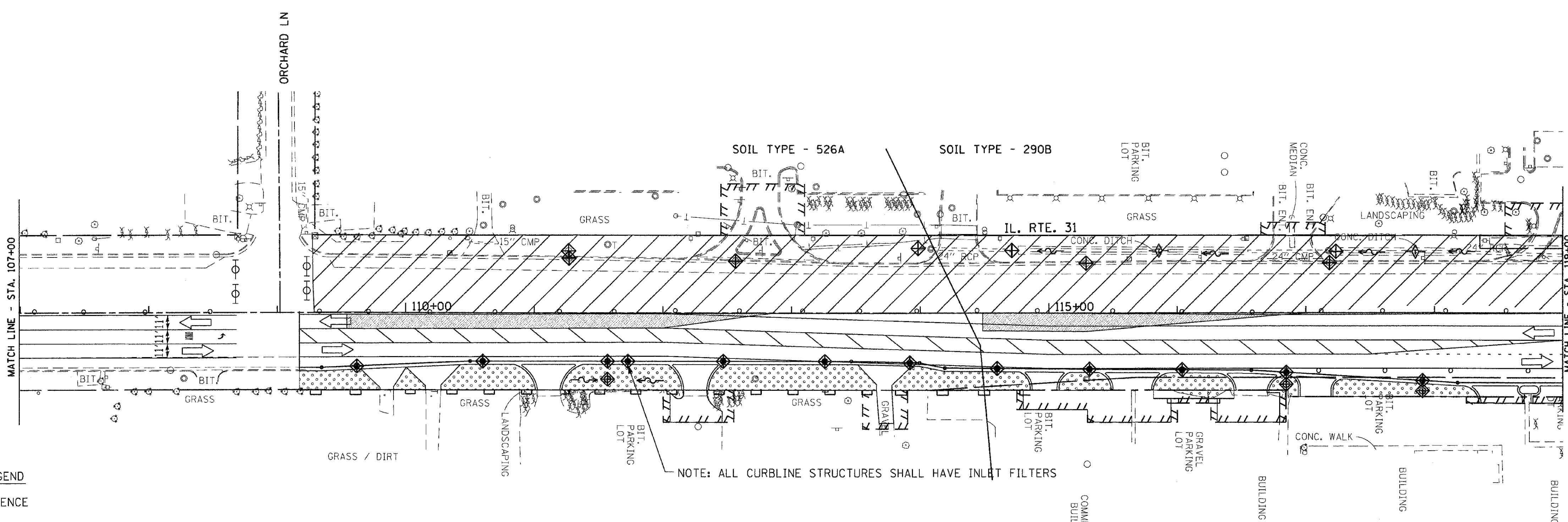
EROSION AND SEDIMENT CONTROL PLAN STAGE 2

0 50' 100'
1" = 50'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

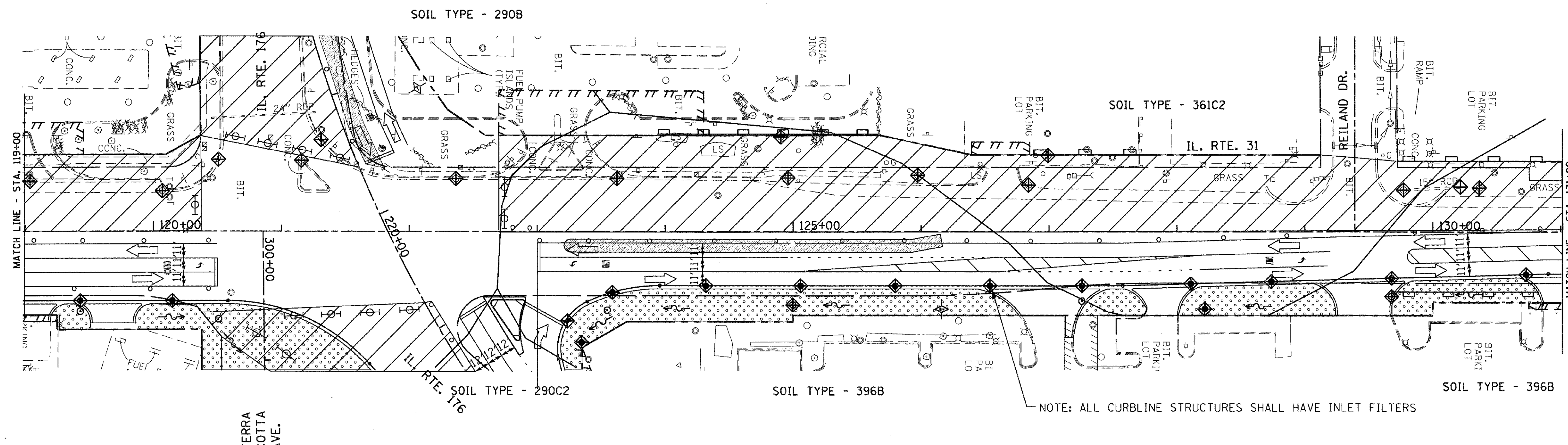
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	72
STA. 107+00 TO STA. 131+00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537



STORMWATER POLLUTION PREVENTION LEGEND

- SEDIMENT CONTROL, SILT FENCE (S.F.)
- CONSTRUCTION FENCE
- TEMPORARY EROSION CONTROL SEEDING
- INLET AND PIPE PROTECTION
- INLET FILTERS (EXISTING DRAINAGE STRUCTURES)
- INLET FILTERS (PROPOSED DRAINAGE STRUCTURES)
- TEMPORARY DITCH CHECK
- SEDIMENT BASIN
- EROSION CONTROL BLANKET
- DRAINAGE STRUCTURES



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

EROSION AND SEDIMENT CONTROL PLAN STAGE 2

0 50' 100'
1" = 50'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO.

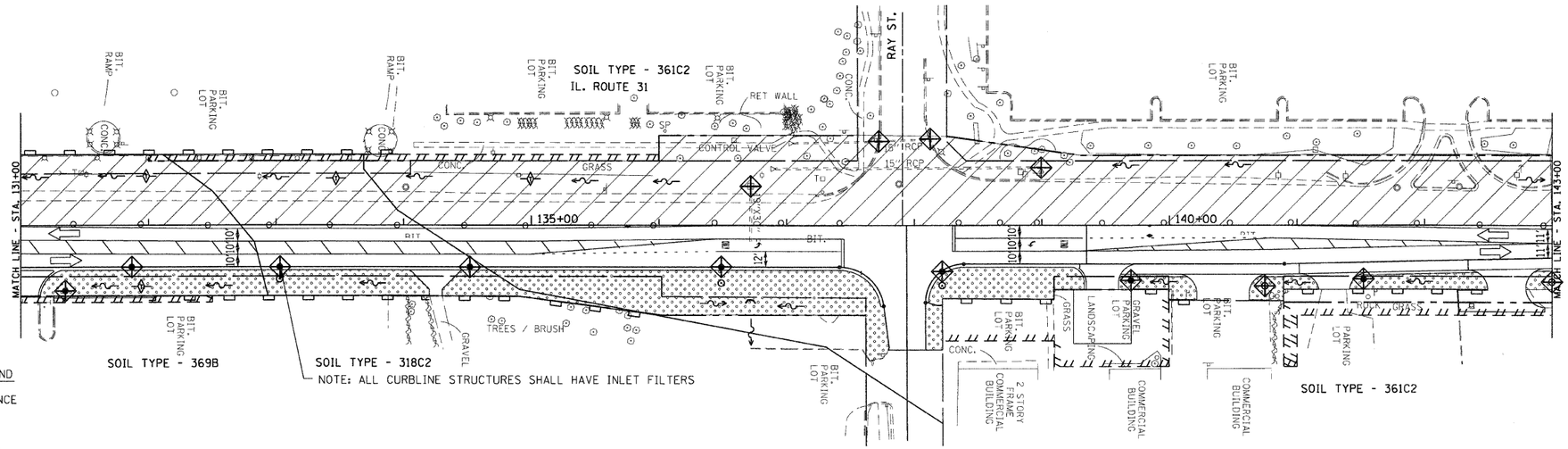
PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CHK'D / NOTE BOOK / NO.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	73
STA. 131+00		TO STA. 157+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

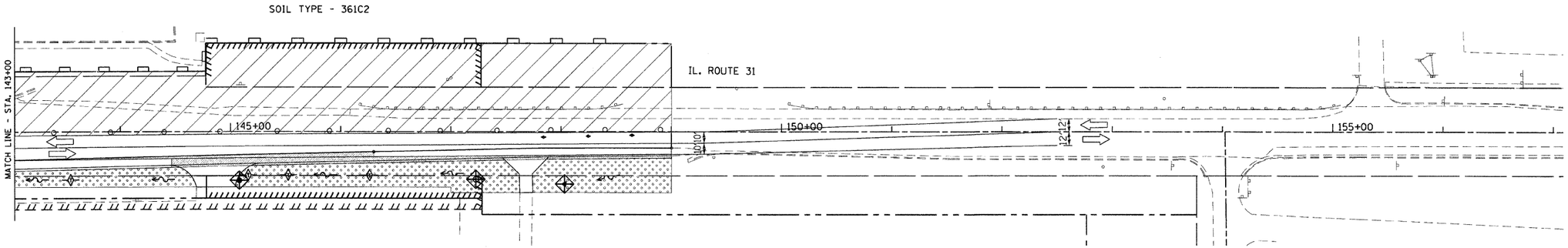
PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
GRADES CHECKED
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
NOTE BOOK
NO.
STRUCTURE NOTATIONS CHKD



STORMWATER POLLUTION PREVENTION LEGEND

- SEDIMENT CONTROL, SILT FENCE (S.F.)
- CONSTRUCTION FENCE
- TEMPORARY EROSION CONTROL SEEDING
- INLET AND PIPE PROTECTION
- INLET FILTERS (EXISTING DRAINAGE STRUCTURES)
- INLET FILTERS (PROPOSED DRAINAGE STRUCTURES)
- TEMPORARY DITCH CHECK
- SEDIMENT BASIN
- EROSION CONTROL BLANKET
- DRAINAGE STRUCTURES



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

EROSION AND SEDIMENT CONTROL PLAN STAGE 2

0 50' 100'
1" = 50'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	74
STA. 195+00	TO STA. 215+50			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62537				

TEMPORARY EROSION CONTROL NOTES

1. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE LAND IS OTHERWISE DISTURBED ON THE SITE.

2. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN 3 DAYS, THEN SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSTALLED DURING CONSTRUCTION.

3. STORM SEWER INLETS SHALL BE PROTECTED WITH SEDIMENT TRAPPING OR FILTER CONTROL DEVICES DURING CONSTRUCTION.

4. THE QUANTITIES SHOWN FOR ALL EROSION CONTROL MEASURES INCLUDE THE INSTALLATION, MAINTENANCE, AND REMOVAL OF THE MEASURE.

5. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES IN SERVICEABLE CONDITION AT ALL TIMES. EROSION CONTROL MEASURES WILL BE INSPECTED ON A WEEKLY BASIS AND WITHIN 24 HOURS OF ANY STORM EXCEEDING 0.5 INCHES OF PRECIPITATION. DURING THE WINTER MONTHS, EROSION CONTROL MEASURES WILL ALSO BE INSPECTED AFTER SIGNIFICANT SNOW MELT EVENTS.

6. ALL CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORM WATER PERMIT FOR THIS PROJECT.

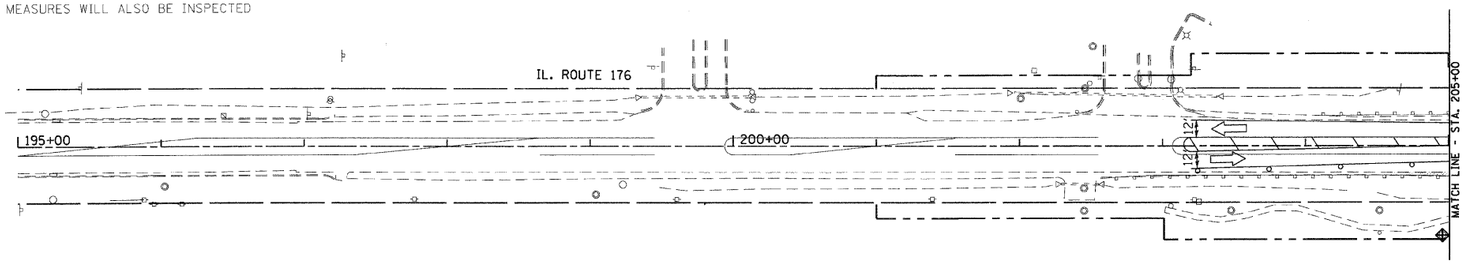
7. AS WORK PROGRESSES, ALL SLOPES 3:1 OR GREATER SHALL RECEIVE TEMPORARY EROSION CONTROL SEEDING AND EROSION CONTROL BLANKET IMMEDIATELY. ALL FLATTER AREAS THAT DO NOT HAVE A COVER OF VEGETATION, AND WHERE NO FURTHER WORK IS TO OCCUR FOR 14 DAYS OR MORE, SHALL BE TEMPORARILY SEEDED WITHIN SEVEN (7) CALENDAR DAYS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. A SUFFICIENT QUANTITY OF TEMPORARY EROSION CONTROL SEEDING IS INCLUDED TO COVER THE LIMITS OF PERMANENT LANDSCAPING.

8. TEMPORARY DITCH CHECKS SHALL BE PLACED IMMEDIATELY AFTER DITCH GRADING (OR CLEANING AND REGRADING) IS COMPLETED.

9. ALL PROPOSED OPEN LID DRAINAGE STRUCTURES SHALL BE PROTECTED AS DIRECTED BY THE ENGINEER WITH INLET FILTERS, AND THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "INLET FILTERS". ALL OPEN END CULVERTS SHALL BE PROTECTED AS DIRECTED BY THE ENGINEER, WHICH WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "INLET AND PIPE PROTECTION". "INLET AND PIPE PROTECTION" SHALL BE COMPRISED OF DITCH CHECKS, TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL BLANKET. STRAW BALES AND SILT FENCE SHALL NOT BE USED AS INLET AND PIPE PROTECTION.

10. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED.

11. ANY SOIL, MUD OR DEBRIS WASHED, TRACKED, OR DEPOSITED ONTO THE STREET SHALL BE REMOVED PRIOR TO THE END OF THE WORK DAY.



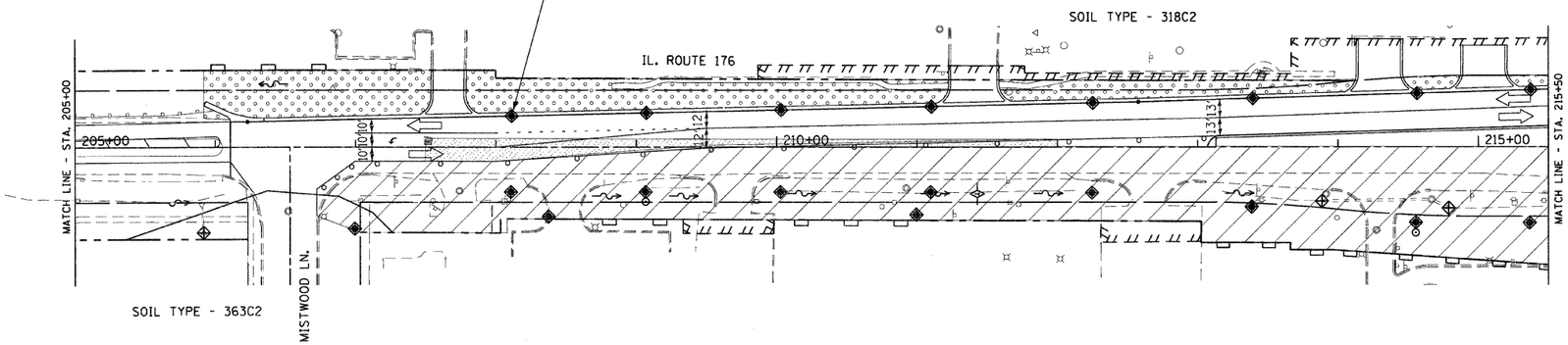
12. SILT FENCE IS NOT REQUIRED WHERE THE PERIMETER IS HIGHER THAN THE WORK ZONE, AND SILT FENCE SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW, OR ACROSS CONTOURS WITHOUT J-HOOKS (HIGHWAY STANDARD 280001). IN AREAS OF CONCENTRATED FLOW, TEMPORARY DITCH CHECKS ARE A SUITABLE ALTERNATIVE PERIMETER EROSION BARRIER IN PLACE OF THE SILT FENCE.

13. PORTABLE TOILETS SHALL BE PLACED AWAY FROM INLETS AND WATER COURSES.

STORMWATER POLLUTION PREVENTION LEGEND

- SEDIMENT CONTROL, SILT FENCE (S.F.)
- CONSTRUCTION FENCE
- TEMPORARY EROSION CONTROL SEEDING
- INLET AND PIPE PROTECTION
- INLET FILTERS (EXISTING DRAINAGE STRUCTURES)
- INLET FILTERS (PROPOSED DRAINAGE STRUCTURES)
- TEMPORARY DITCH CHECK
- SEDIMENT BASIN
- EROSION CONTROL BLANKET
- DRAINAGE STRUCTURES

NOTE: ALL CURBLINE STRUCTURES SHALL HAVE INLET FILTERS



REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

EROSION AND SEDIMENT CONTROL PLAN
STAGE 2

0 50' 100'
1" = 50'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

PLAN
SURVEYED
PLOTTED
DRAWN / CHECKED
ALL ROW WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
DRAWN / CHECKED
HORIZONTAL
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	75
STA. 215+50	TO STA. 224+50			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

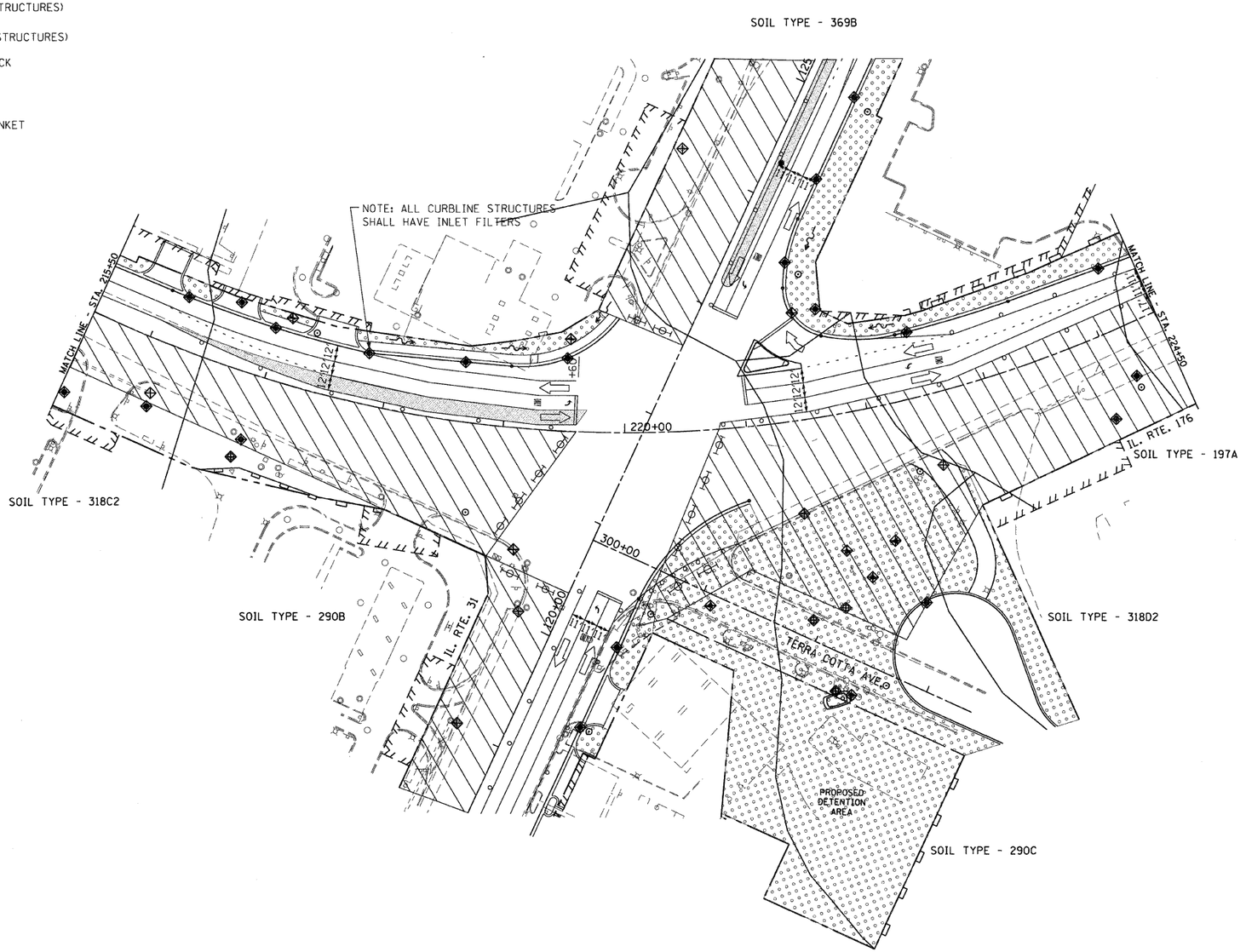
N

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
NOTE BOOK
NO.
CADD FILE NAME
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
NOTE BOOK
NO.
STRUCTURE NOTATIONS CHKD
BY
DATE

STORMWATER POLLUTION PREVENTION LEGEND

- SEDIMENT CONTROL, SILT FENCE (S.F.)
- CONSTRUCTION FENCE
- TEMPORARY EROSION CONTROL SEEDING
- INLET AND PIPE PROTECTION
- INLET FILTERS (EXISTING DRAINAGE STRUCTURES)
- INLET FILTERS (PROPOSED DRAINAGE STRUCTURES)
- TEMPORARY DITCH CHECK
- SEDIMENT BASIN
- EROSION CONTROL BLANKET
- DRAINAGE STRUCTURES



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31 AND IL RTE 176

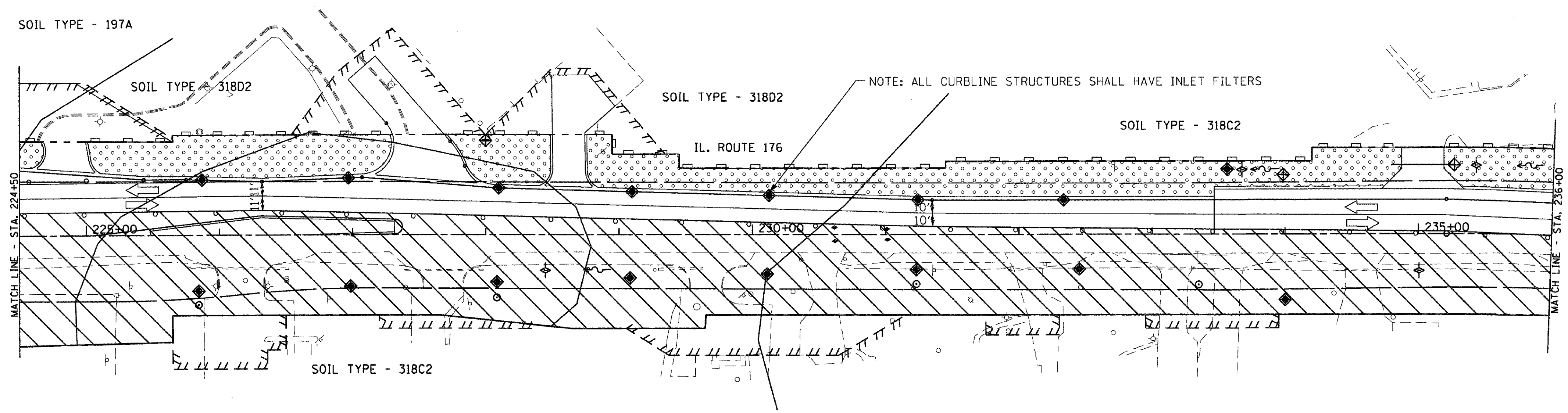
EROSION AND SEDIMENT CONTROL PLAN STAGE 2

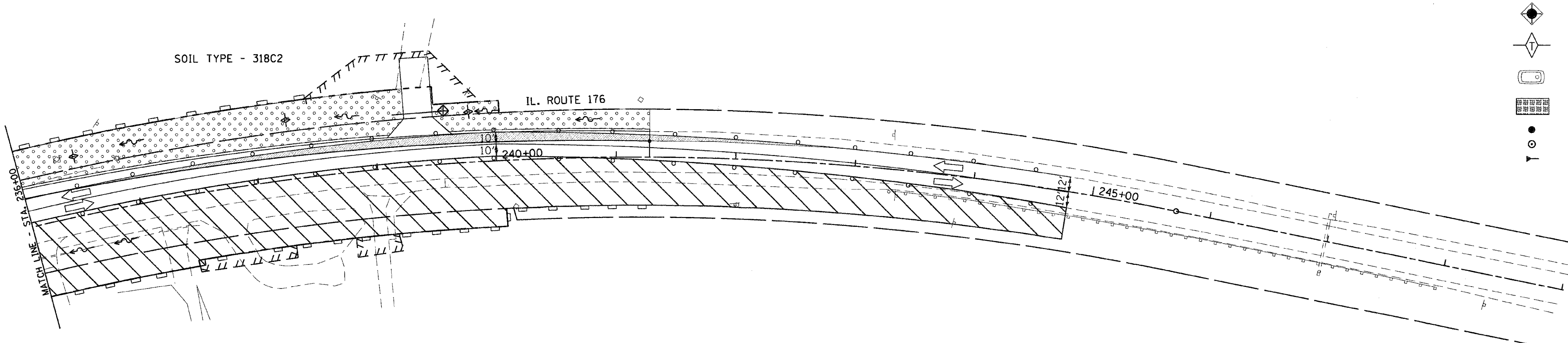
0 50' 100'
1" = 50'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	76
STA. 224+50 TO STA. 245+00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537





STORMWATER POLLUTION PREVENTION LEGEND

- SEDIMENT CONTROL, SILT FENCE (S.F.)
- CONSTRUCTION FENCE
- TEMPORARY EROSION CONTROL SEEDING
- INLET AND PIPE PROTECTION
- INLET FILTERS (EXISTING DRAINAGE STRUCTURES)
- INLET FILTERS (PROPOSED DRAINAGE STRUCTURES)
- TEMPORARY DITCH CHECK
- SEDIMENT BASIN
- EROSION CONTROL BLANKET
- DRAINAGE STRUCTURES

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31 AND IL RTE 176

EROSION AND
SEDIMENT CONTROL PLAN
STAGE 2

0 50' 100'
1" = 50'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

PLAN | NOTE BOOK | NO. | SURVEYED | PLOTTED | ALIGNMENT CHECKED | R.O. OF WAY CHECKED | CADD FILE NAME | BY | DATE

PROFILE | NOTE BOOK | NO. | SURVEYED | PLOTTED | GRADES CHECKED | B.M. NOTED | STRUCTURE NOTATIONS CHKD | BY | DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	77

STA. 93+00 TO STA. 107+00

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

CONTRACT NO. 62537

TEMPORARY EROSION CONTROL NOTES

STORMWATER POLLUTION PREVENTION LEGEND

- SEDIMENT CONTROL, SILT FENCE (S.F.)
- CONSTRUCTION FENCE
- TEMPORARY EROSION CONTROL SEEDING
- INLET AND PIPE PROTECTION
- INLET FILTERS (EXISTING DRAINAGE STRUCTURES)
- INLET FILTERS (PROPOSED DRAINAGE STRUCTURES)
- TEMPORARY DITCH CHECK
- SEDIMENT BASIN
- EROSION CONTROL BLANKET
- DRAINAGE STRUCTURES

1. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE LAND IS OTHERWISE DISTURBED ON THE SITE.

2. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN 3 DAYS, THEN SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSTALLED DURING CONSTRUCTION.

3. STORM SEWER INLETS SHALL BE PROTECTED WITH SEDIMENT TRAPPING OR FILTER CONTROL DEVICES DURING CONSTRUCTION.

4. THE QUANTITIES SHOWN FOR ALL EROSION CONTROL MEASURES INCLUDE THE INSTALLATION, MAINTENANCE, AND REMOVAL OF THE MEASURE.

5. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES IN SERVICEABLE CONDITION AT ALL TIMES. EROSION CONTROL MEASURES WILL BE INSPECTED ON A WEEKLY BASIS AND WITHIN 24 HOURS OF ANY STORM EXCEEDING 0.5 INCHES OF PRECIPITATION. DURING THE WINTER MONTHS, EROSION CONTROL MEASURES WILL ALSO BE INSPECTED AFTER SIGNIFICANT SNOW MELT EVENTS.

6. ALL CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORM WATER PERMIT FOR THIS PROJECT.

7. AS WORK PROGRESSES, ALL SLOPES 3:1 OR GREATER SHALL RECEIVE TEMPORARY EROSION CONTROL SEEDING AND EROSION CONTROL BLANKET IMMEDIATELY. ALL FLATTER AREAS THAT DO NOT HAVE A COVER OF VEGETATION, AND WHERE NO FURTHER WORK IS TO OCCUR FOR 14 DAYS OR MORE, SHALL BE TEMPORARILY SEEDED WITHIN SEVEN (7) CALENDAR DAYS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. A SUFFICIENT QUANTITY OF TEMPORARY EROSION CONTROL SEEDING IS INCLUDED TO COVER THE LIMITS OF PERMANENT LANDSCAPING.

8. TEMPORARY DITCH CHECKS SHALL BE PLACED IMMEDIATELY AFTER DITCH GRADING (OR CLEANING AND REGRADING) IS COMPLETED.

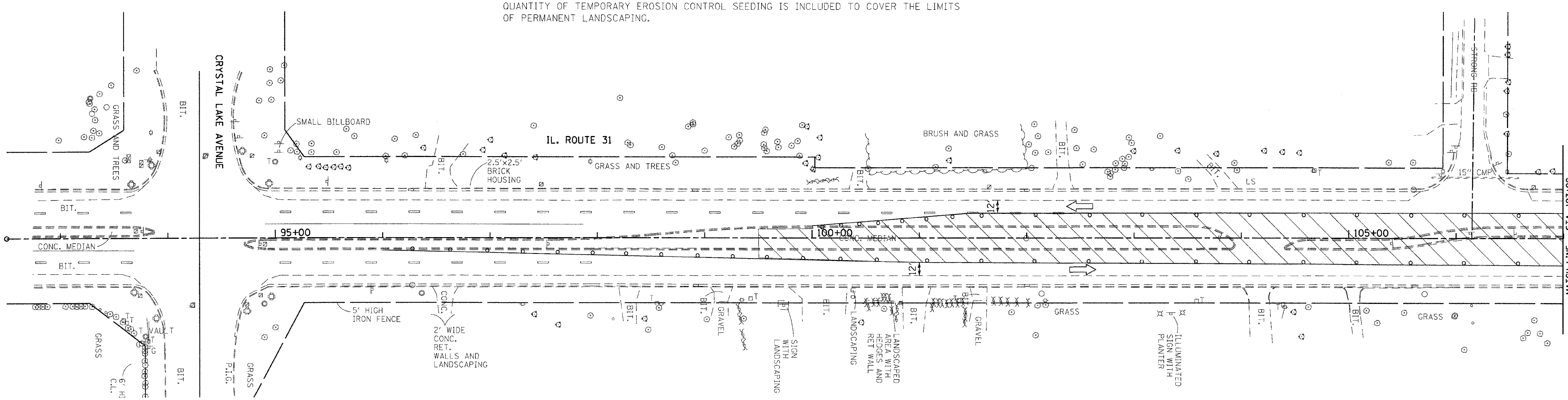
9. ALL PROPOSED OPEN LID DRAINAGE STRUCTURES SHALL BE PROTECTED AS DIRECTED BY THE ENGINEER WITH INLET FILTERS, AND THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "INLET FILTERS". ALL OPEN END CULVERTS SHALL BE PROTECTED AS DIRECTED BY THE ENGINEER, WHICH WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "INLET AND PIPE PROTECTION". "INLET AND PIPE PROTECTION" SHALL BE COMPRISED OF DITCH CHECKS, TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL BLANKET. STRAW BALES AND SILT FENCE SHALL NOT BE USED AS INLET AND PIPE PROTECTION.

10. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED.

11. ANY SOIL, MUD OR DEBRIS WASHED, TRACKED, OR DEPOSITED ONTO THE STREET SHALL BE REMOVED PRIOR TO THE END OF THE WORK DAY.

12. SILT FENCE IS NOT REQUIRED WHERE THE PERIMETER IS HIGHER THAN THE WORK ZONE, AND SILT FENCE SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW, OR ACROSS CONTOURS WITHOUT J-HOOKS (HIGHWAY STANDARD 280001). IN AREAS OF CONCENTRATED FLOW, TEMPORARY DITCH CHECKS ARE A SUITABLE ALTERNATIVE PERIMETER EROSION BARRIER IN PLACE OF THE SILT FENCE.

13. PORTABLE TOILETS SHALL BE PLACED AWAY FROM INLETS AND WATER COURSES.



REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

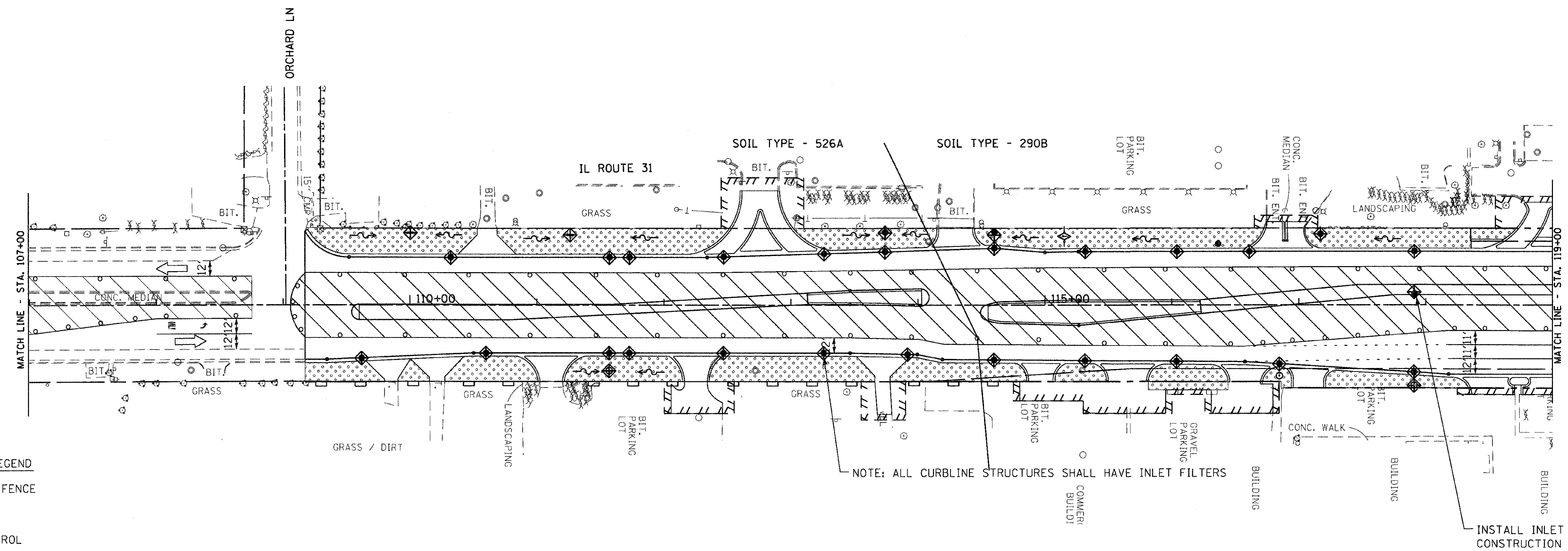
EROSION AND SEDIMENT CONTROL PLAN STAGE 3

0 50' 100'
1" = 50'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

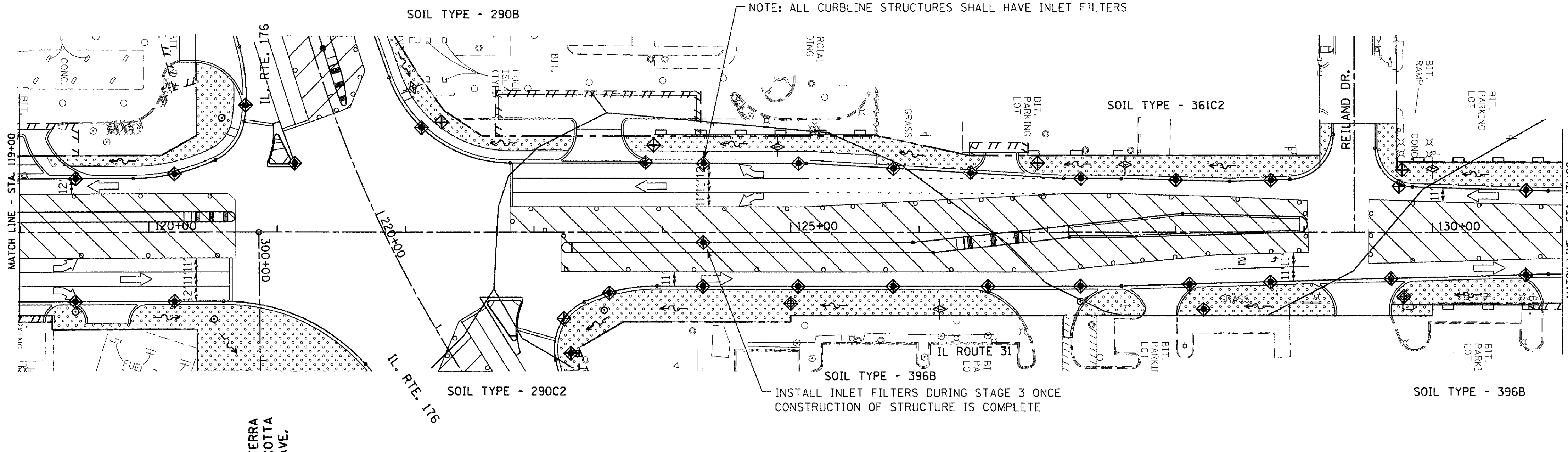
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	78
STA. 107+00 TO STA. 131+00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537



STORMWATER POLLUTION PREVENTION LEGEND

- SEDIMENT CONTROL, SILT FENCE (S.F.)
- CONSTRUCTION FENCE
- TEMPORARY EROSION CONTROL SEEDING
- INLET AND PIPE PROTECTION
- INLET FILTERS (EXISTING DRAINAGE STRUCTURES)
- INLET FILTERS (PROPOSED DRAINAGE STRUCTURES)
- TEMPORARY DITCH CHECK
- SEDIMENT BASIN
- EROSION CONTROL BLANKET
- DRAINAGE STRUCTURES



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

EROSION AND SEDIMENT CONTROL PLAN STAGE 3

0 50' 100'
1"= 50'

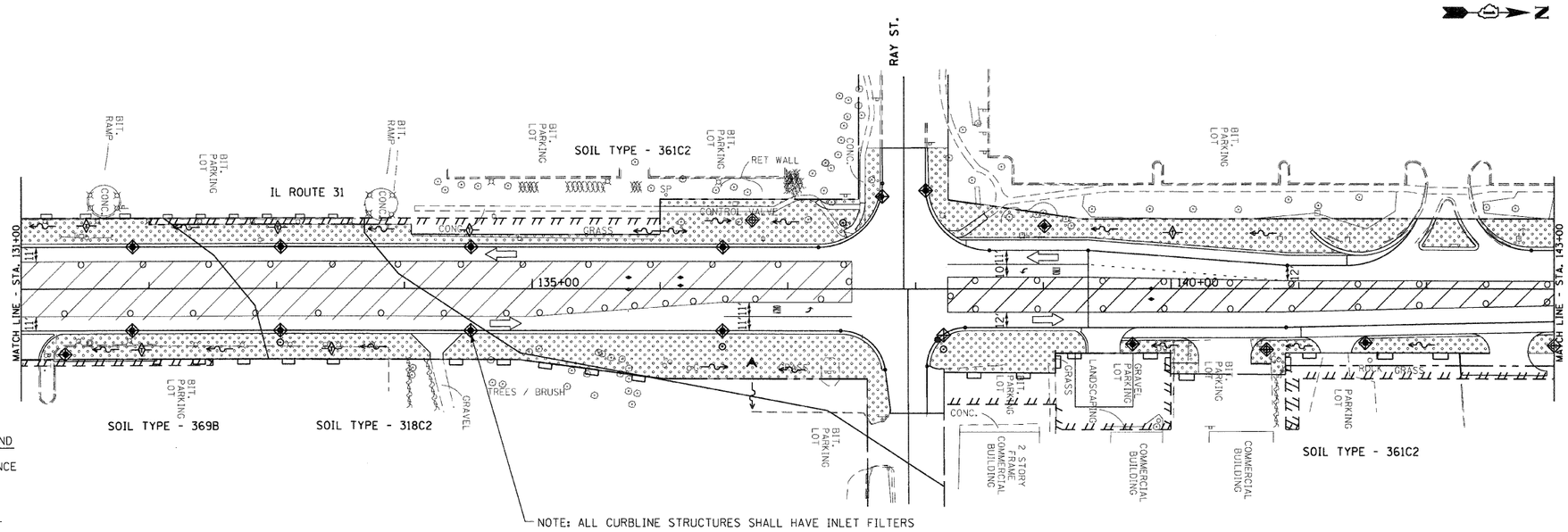
DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	79
STA. 131+00		TO STA. 157+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

PLAN | SURVEYED | PLOTTED | ALIGNMENT CHECKED | GRADES CHECKED | NOTE BOOK | NO. | BY | DATE

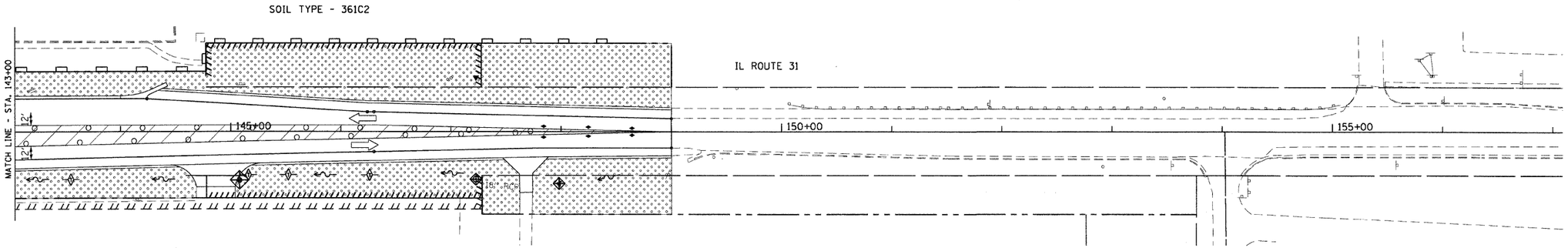
PROFILE | SURVEYED | PLOTTED | GRADES CHECKED | DATA VERIFIED | NOTE BOOK | NO. | STRUCTURE NO'S/MK'S CHK'D | BY | DATE



NOTE: ALL CURBLINE STRUCTURES SHALL HAVE INLET FILTERS

STORMWATER POLLUTION PREVENTION LEGEND

- SEDIMENT CONTROL, SILT FENCE (S.F.)
- CONSTRUCTION FENCE
- TEMPORARY EROSION CONTROL SEEDING
- INLET AND PIPE PROTECTION
- INLET FILTERS (EXISTING DRAINAGE STRUCTURES)
- INLET FILTERS (PROPOSED DRAINAGE STRUCTURES)
- TEMPORARY DITCH CHECK
- SEDIMENT BASIN
- EROSION CONTROL BLANKET
- DRAINAGE STRUCTURES



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

EROSION AND SEDIMENT CONTROL PLAN STAGE 3

0 50' 100'
1" = 50'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	80
STA. 195+00	TO STA. 215+50			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62537				

N

TEMPORARY EROSION CONTROL NOTES

1. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE LAND IS OTHERWISE DISTURBED ON THE SITE.

2. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN 3 DAYS, THEN SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSTALLED DURING CONSTRUCTION.

3. STORM SEWER INLETS SHALL BE PROTECTED WITH SEDIMENT TRAPPING OR FILTER CONTROL DEVICES DURING CONSTRUCTION.

4. THE QUANTITIES SHOWN FOR ALL EROSION CONTROL MEASURES INCLUDE THE INSTALLATION, MAINTENANCE, AND REMOVAL OF THE MEASURE.

5. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES IN SERVICEABLE CONDITION AT ALL TIMES. EROSION CONTROL MEASURES WILL BE INSPECTED ON A WEEKLY BASIS AND WITHIN 24 HOURS OF ANY STORM EXCEEDING 0.5 INCHES OF PRECIPITATION. DURING THE WINTER MONTHS, EROSION CONTROL MEASURES WILL ALSO BE INSPECTED AFTER SIGNIFICANT SNOW MELT EVENTS.

6. ALL CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORM WATER PERMIT FOR THIS PROJECT.

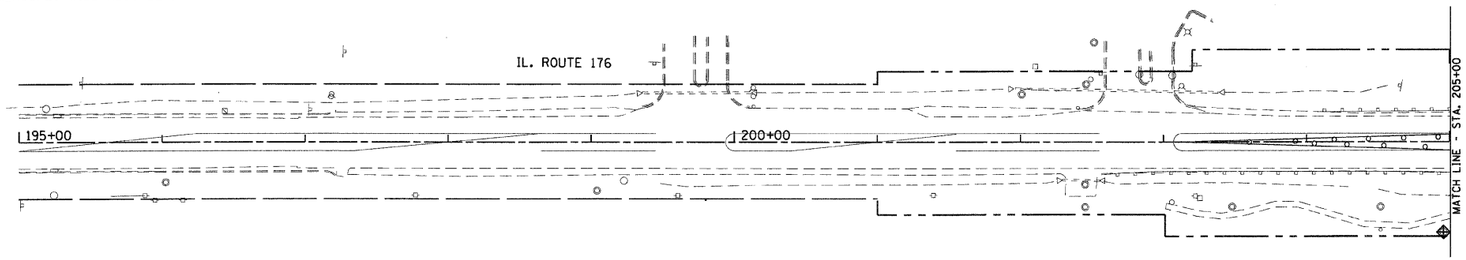
7. AS WORK PROGRESSES, ALL SLOPES 3:1 OR GREATER SHALL RECEIVE TEMPORARY EROSION CONTROL SEEDING AND EROSION CONTROL BLANKET IMMEDIATELY. ALL FLATTER AREAS THAT DO NOT HAVE A COVER OF VEGETATION, AND WHERE NO FURTHER WORK IS TO OCCUR FOR 14 DAYS OR MORE, SHALL BE TEMPORARILY SEEDED WITHIN SEVEN (7) CALENDAR DAYS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. A SUFFICIENT QUANTITY OF TEMPORARY EROSION CONTROL SEEDING IS INCLUDED TO COVER THE LIMITS OF PERMANENT LANDSCAPING.

8. TEMPORARY DITCH CHECKS SHALL BE PLACED IMMEDIATELY AFTER DITCH GRADING (OR CLEANING AND REGRADING) IS COMPLETED.

9. ALL PROPOSED OPEN LID DRAINAGE STRUCTURES SHALL BE PROTECTED AS DIRECTED BY THE ENGINEER WITH INLET FILTERS, AND THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "INLET FILTERS". ALL OPEN END CULVERTS SHALL BE PROTECTED AS DIRECTED BY THE ENGINEER, WHICH WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "INLET AND PIPE PROTECTION". "INLET AND PIPE PROTECTION" SHALL BE COMPRISED OF DITCH CHECKS, TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL BLANKET. STRAW BALES AND SILT FENCE SHALL NOT BE USED AS INLET AND PIPE PROTECTION.

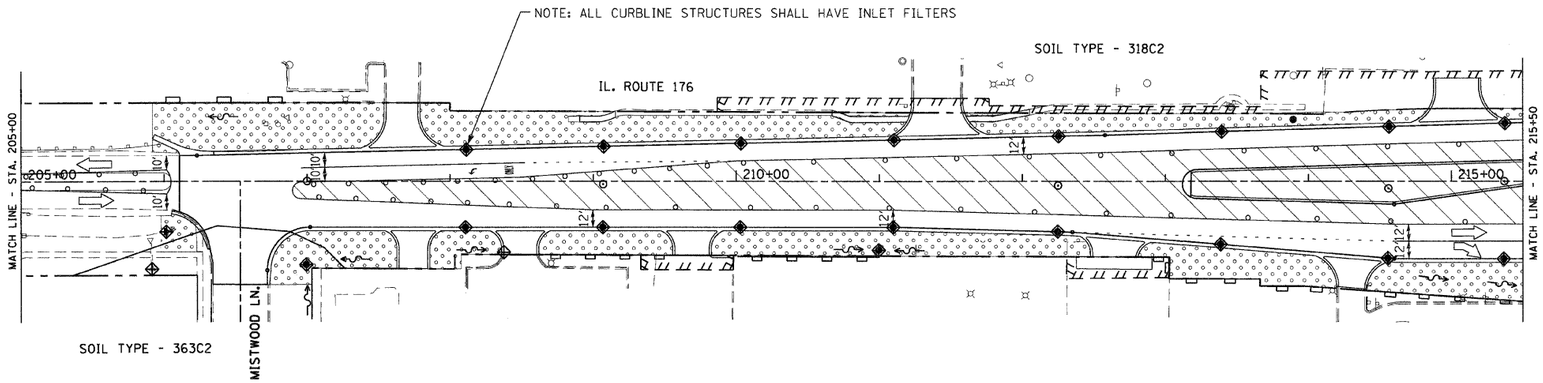
10. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED.

11. ANY SOIL, MUD OR DEBRIS WASHED, TRACKED, OR DEPOSITED ONTO THE STREET SHALL BE REMOVED PRIOR TO THE END OF THE WORK DAY.



12. SILT FENCE IS NOT REQUIRED WHERE THE PERIMETER IS HIGHER THAN THE WORK ZONE, AND SILT FENCE SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW, OR ACROSS CONTOURS WITHOUT J-HOOKS (HIGHWAY STANDARD 280001). IN AREAS OF CONCENTRATED FLOW, TEMPORARY DITCH CHECKS ARE A SUITABLE ALTERNATIVE PERIMETER EROSION BARRIER IN PLACE OF THE SILT FENCE.

13. PORTABLE TOILETS SHALL BE PLACED AWAY FROM INLETS AND WATER COURSES.



STORMWATER POLLUTION PREVENTION LEGEND

- SEDIMENT CONTROL, SILT FENCE (S.F.)
- CONSTRUCTION FENCE
- TEMPORARY EROSION CONTROL SEEDING
- INLET AND PIPE PROTECTION
- INLET FILTERS (EXISTING DRAINAGE STRUCTURES)
- INLET FILTERS (PROPOSED DRAINAGE STRUCTURES)
- TEMPORARY DITCH CHECK
- SEDIMENT BASIN
- EROSION CONTROL BLANKET
- DRAINAGE STRUCTURES

PLAN — DATE / BY / SURVEYED / PLOTTED / ALIGNMENT CHECKED / GRADES CHECKED / NOTE BOOK ____ / NO. ____ / CADD FILE NAME

PROFILE — DATE / BY / SURVEYED / PLOTTED / GRADES CHECKED / NOTE BOOK ____ / NO. ____ / STRUCTURE NOTATNS CHKD

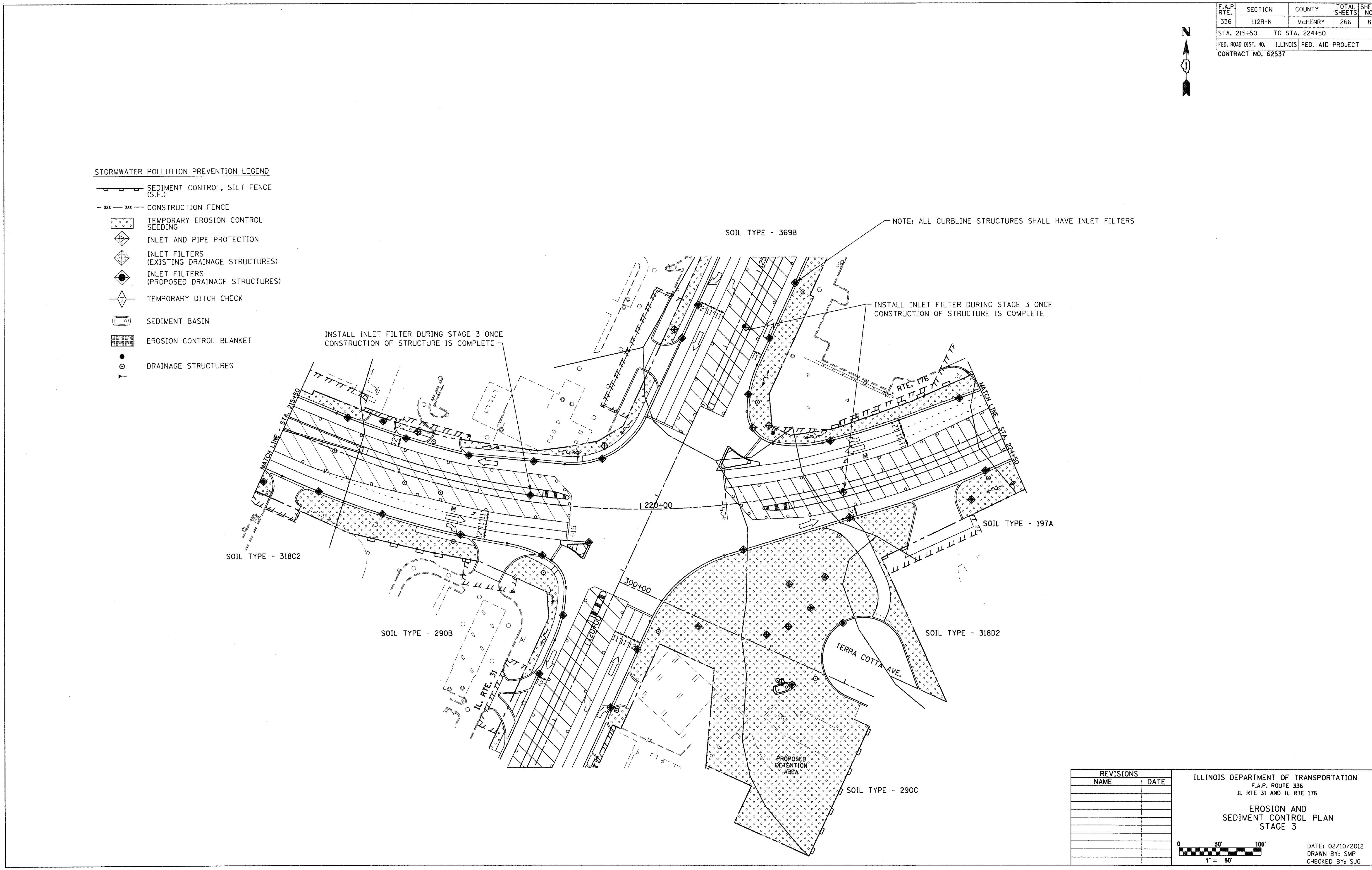
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

EROSION AND SEDIMENT CONTROL PLAN STAGE 3

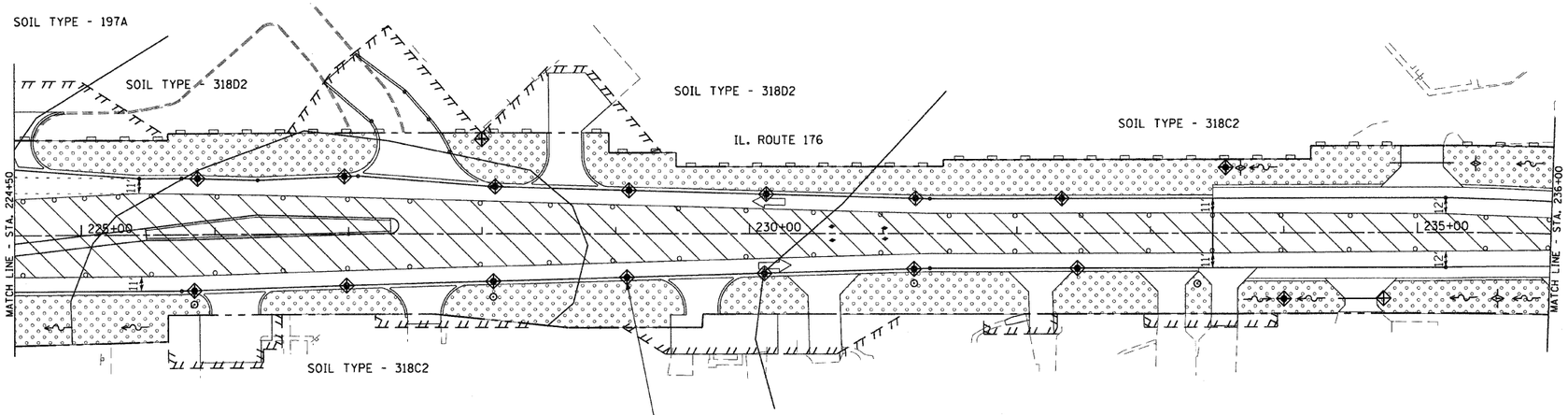
0 50' 100'
1" = 50'

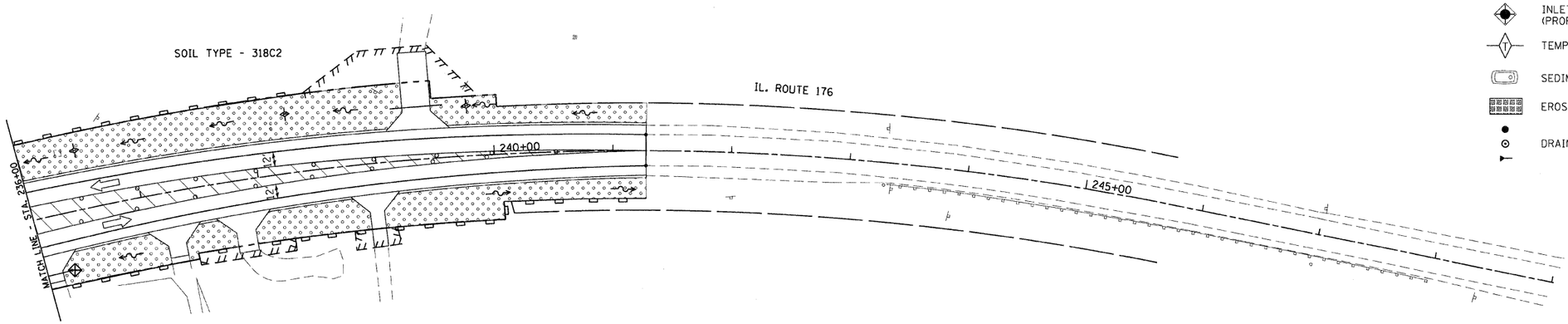
DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG


F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO.
336 | 112R-N | McHENRY | 266 | 81
STA. 215+50 TO STA. 224+50
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
CONTRACT NO. 62537
N
STORMWATER POLLUTION PREVENTION LEGEND
SEDIMENT CONTROL, SILT FENCE (S.F.)
CONSTRUCTION FENCE
TEMPORARY EROSION CONTROL SEEDING
INLET AND PIPE PROTECTION
INLET FILTERS (EXISTING DRAINAGE STRUCTURES)
INLET FILTERS (PROPOSED DRAINAGE STRUCTURES)
TEMPORARY DITCH CHECK
SEDIMENT BASIN
EROSION CONTROL BLANKET
DRAINAGE STRUCTURES
NOTE: ALL CURBLINE STRUCTURES SHALL HAVE INLET FILTERS
SOIL TYPE - 369B
INSTALL INLET FILTER DURING STAGE 3 ONCE CONSTRUCTION OF STRUCTURE IS COMPLETE
INSTALL INLET FILTER DURING STAGE 3 ONCE CONSTRUCTION OF STRUCTURE IS COMPLETE
RTE. 176
MATCH LINE - STA. 215+50
MATCH LINE - STA. 224+50
220+00
300+00
SOIL TYPE - 197A
SOIL TYPE - 318C2
SOIL TYPE - 290B
SOIL TYPE - 318D2
TERRA COTTA AVE.
IL. RTE. 31
PROPOSED DETENTION AREA
SOIL TYPE - 290C
REVISIONS
NAME | DATE
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31 AND IL RTE 176
EROSION AND SEDIMENT CONTROL PLAN STAGE 3
0 50' 100'
1" = 50'
DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG
PLAN
NOTE BOOK
NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
R.T. OF WAY CHECKED
CADD FILE NAME
BY
DATE
PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	82
STA. 224+50	TO STA. 245+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537





STORMWATER POLLUTION PREVENTION LEGEND

- SEDIMENT CONTROL, SILT FENCE (S.F.)
- CONSTRUCTION FENCE
- TEMPORARY EROSION CONTROL SEEDING
- INLET AND PIPE PROTECTION
- INLET FILTERS (EXISTING DRAINAGE STRUCTURES)
- INLET FILTERS (PROPOSED DRAINAGE STRUCTURES)
- TEMPORARY DITCH CHECK
- SEDIMENT BASIN
- EROSION CONTROL BLANKET
- DRAINAGE STRUCTURES

PLAN: SURVEYED, PLOTTED, ALIGNMENTS CHECKED, BY, DATE, NOTE BOOK, NO., CADD FILE NAME

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, BY, DATE, NOTE BOOK, NO., STRUCTURE NOTATIONS CHKD

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31 AND IL RTE 176

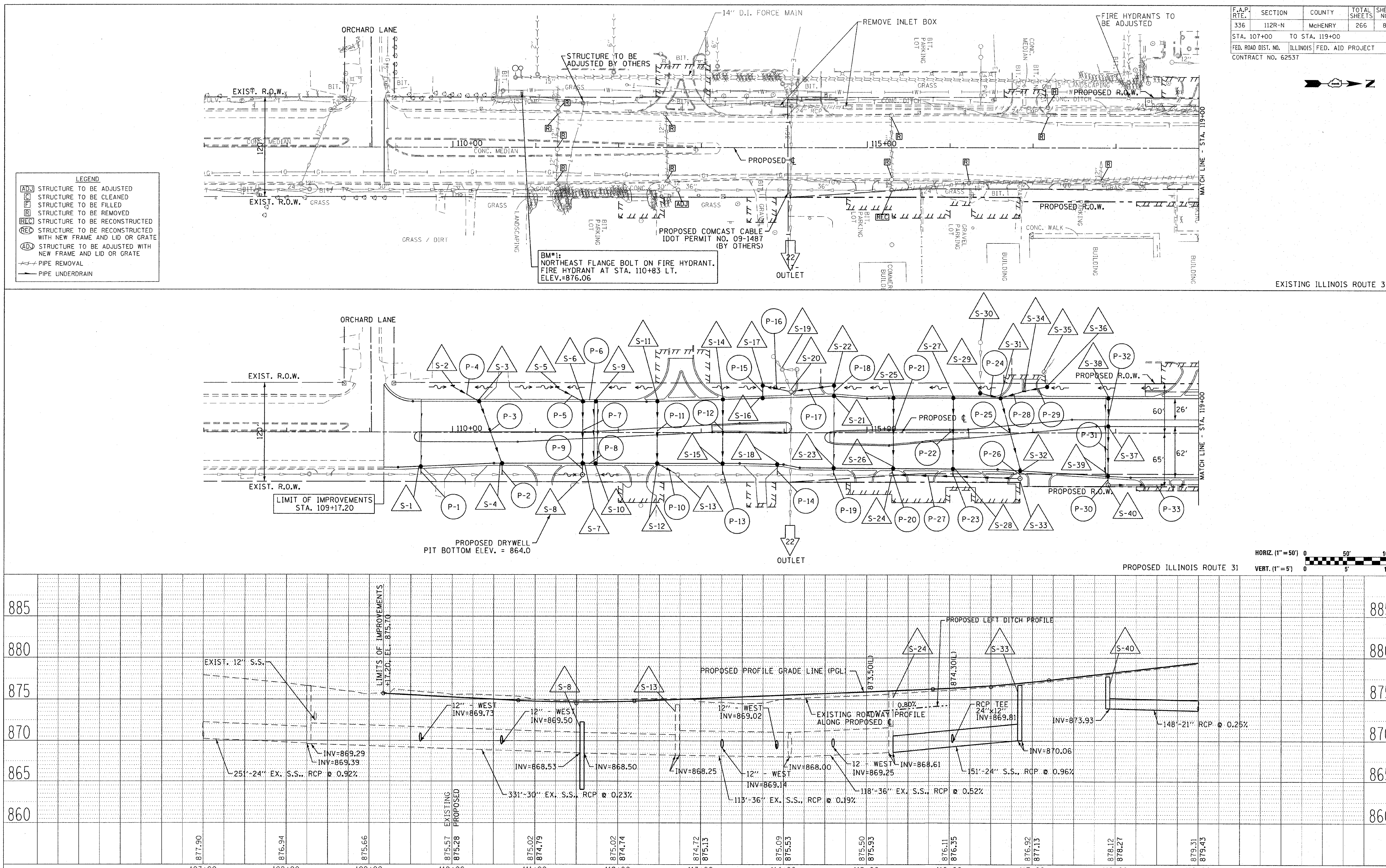
EROSION AND SEDIMENT CONTROL PLAN STAGE 3

0 50' 100'
1" = 50'

DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: SJG

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	83
STA. 107+00 TO STA. 119+00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

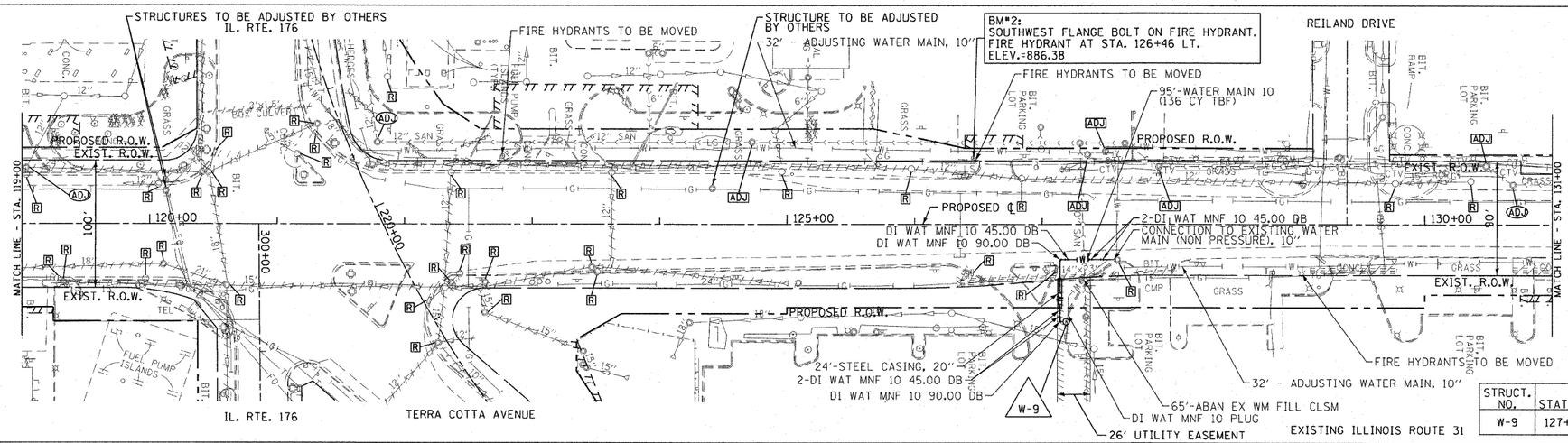


ORCHARD LANE
EXIST. R.O.W.
14" D.I. FORCE MAIN
REMOVE INLET BOX
FIRE HYDRANTS TO BE ADJUSTED
STRUCTURE TO BE ADJUSTED BY OTHERS
CONC. MEDIAN
110+00
115+00
PROPOSED ℄
PROPOSED R.O.W.
GRASS
BIT.
LANDSCAPING
GRASS / DIRT
BIT. PARKING LOT
GRAVEL PARKING LOT
CONC. WALK
BUILDING
MATCH LINE - STA. 119+00
LEGEND
ADJ STRUCTURE TO BE ADJUSTED
C STRUCTURE TO BE CLEANED
F STRUCTURE TO BE FILLED
R STRUCTURE TO BE REMOVED
REC STRUCTURE TO BE RECONSTRUCTED
REC STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME AND LID OR GRATE
ADJ STRUCTURE TO BE ADJUSTED WITH NEW FRAME AND LID OR GRATE
PIPE REMOVAL
PIPE UNDERDRAIN
PROPOSED COMCAST CABLE IDOT PERMIT NO. 09-1487 (BY OTHERS)
BM#1: NORTHEAST FLANGE BOLT ON FIRE HYDRANT. FIRE HYDRANT AT STA. 110+83 LT. ELEV.=876.06
22 OUTLET
EXISTING ILLINOIS ROUTE 31
LIMIT OF IMPROVEMENTS STA. 109+17.20
PROPOSED DRYWELL PIT BOTTOM ELEV. = 864.0
PROPOSED ILLINOIS ROUTE 31
HORIZ. (1" = 50') 0 50' 100'
VERT. (1" = 5') 0 5' 10'
LIMITS OF IMPROVEMENTS +17.20, EL. 875.70
EXIST. 12" S.S.
PROPOSED LEFT DITCH PROFILE
PROPOSED PROFILE GRADE LINE (PGL)
EXISTING ROADWAY PROFILE ALONG PROPOSED ℄
12" - WEST INV=869.73
12" - WEST INV=869.50
12" - WEST INV=869.02
12" - WEST INV=869.14
12 - WEST INV=869.25
RCP TEE 24"x12" INV=869.81
INV=873.93
INV=869.29
INV=869.39
INV=868.53
INV=868.50
INV=868.25
INV=868.00
INV=868.61
INV=870.06
251'-24" EX. S.S., RCP @ 0.92%
331'-30" EX. S.S., RCP @ 0.23%
113'-36" EX. S.S., RCP @ 0.19%
118'-36" EX. S.S., RCP @ 0.52%
151'-24" S.S., RCP @ 0.96%
148'-21" RCP @ 0.25%
0.80%
873.50(L)
874.30(L)
EXISTING
PROPOSED
885
880
875
870
865
860
107+00
108+00
109+00
110+00
111+00
112+00
113+00
114+00
115+00
116+00
117+00
118+00
119+00

DRAINAGE AND UTILITIES PLAN IL. RTE. 31 STA. 107+00 TO STA. 119+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	84
STA. 119+00	TO STA. 131+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

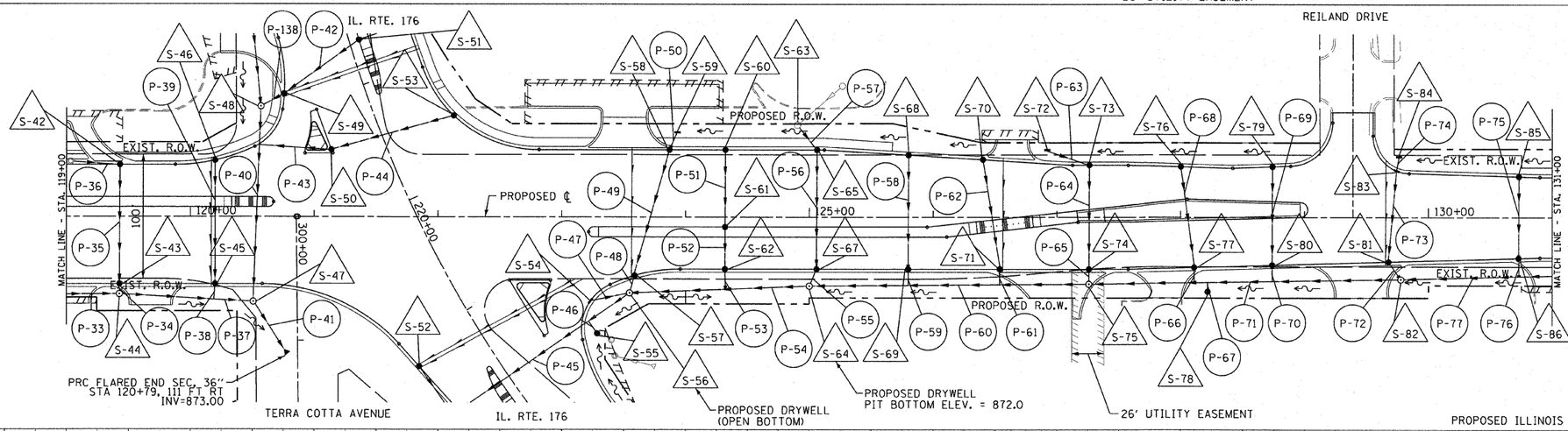


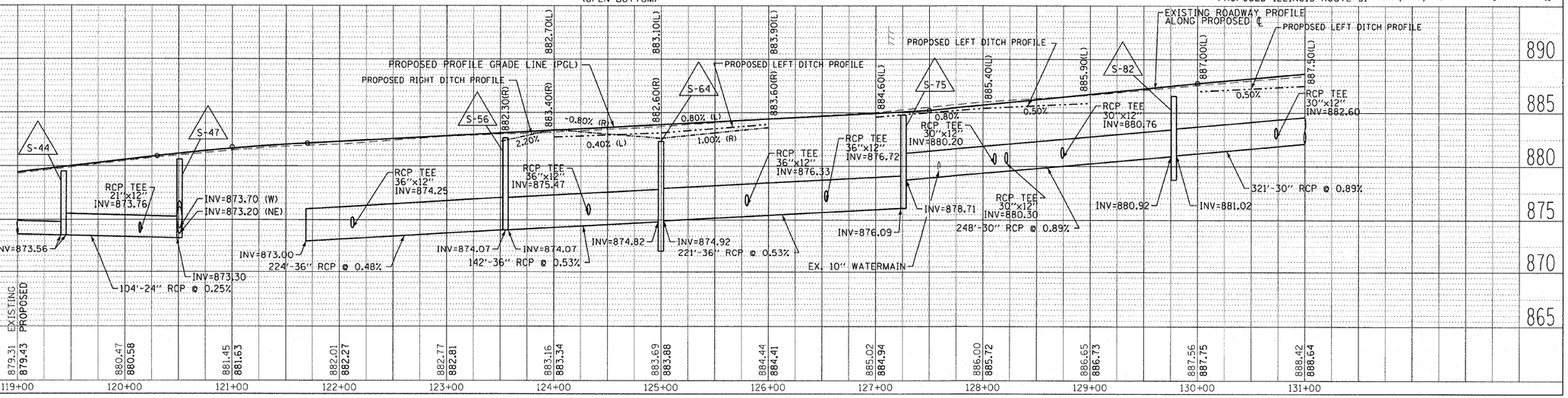
LEGEND

- ADJ STRUCTURE TO BE ADJUSTED
- C STRUCTURE TO BE CLEANED
- F STRUCTURE TO BE FILLED
- R STRUCTURE TO BE REMOVED
- REC STRUCTURE TO BE RECONSTRUCTED
- REC STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME AND LID OR GRATE
- ADJ STRUCTURE TO BE ADJUSTED WITH NEW FRAME AND LID OR GRATE
- PIPE REMOVAL
- PIPE UNDERDRAIN

WATER MAIN STRUCTURE TABLE

STRUCT. NO.	STATION	OFFSET	STRUCTURE TYPE	RIM
W-9	127+19	76'RT	TAP VALVE & SLEEVE 10 VV TA 5DIA TIF CL	885.58





DRAINAGE AND UTILITIES PLAN IL. RTE. 31 STA. 119+00 TO STA. 131+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	85
STA. 131+00	TO STA. 143+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

LEGEND

- (ADJ) STRUCTURE TO BE ADJUSTED
- (C) STRUCTURE TO BE CLEANED
- (F) STRUCTURE TO BE FILLED
- (R) STRUCTURE TO BE REMOVED
- (REC) STRUCTURE TO BE RECONSTRUCTED
- (REC) STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME AND LID OR GRATE
- (ADJ) STRUCTURE TO BE ADJUSTED WITH NEW FRAME AND LID OR GRATE
- PIPE REMOVAL
- PIPE UNDERDRAIN

PROPOSED AT&T LINE
IDOT PERMIT NO. 11-1229
(BY OTHERS)

32' - ADJUSTING WATER MAIN, 10"

REMOVE INLET BOX

PROPOSED R.O.W.

EXIST. R.O.W.

MATCH LINE - STA. 131+00

MATCH LINE - STA. 143+00

135+00

140+00

PROPOSED ℄

OUTLET

CONC. HEADWALL REMOVAL

FIRE HYDRANTS TO BE MOVED

RAY STREET

BM#3:
SOUTHEAST FLANGE BOLT ON FIRE HYDRANT.
FIRE HYDRANT AT STA. 142+92 RT.
ELEV.=905.60

EXISTING ILLINOIS ROUTE 31

WIDENING/RESURFACING BEGINS
STA 139+35.00

+57
EL 895.90

+39.5
EL 897.19

+24
EL 896.91

PRC FL END S EQ RS 24
STA 136+72, 58 FT RT
INV=889.16

PROJECT LIMITS
97.00' RT.

PROPOSED ILLINOIS ROUTE 31

HORIZ. (1"=50') 0 50' 100'

VERT. (1"=5') 0 5' 10'

PROPOSED RIGHT DITCH PROFILE

PROPOSED LEFT DITCH PROFILE

PROPOSED PROFILE GRADE LINE (PGL)

EXISTING ROADWAY PROFILE ALONG PROPOSED ℄

331'-30" RCP @ 0.89%

342'-27" RCP @ 1.38%

169'-30"x19" RCP @ 1.00%

249'-21" RCP @ 1.00%

221'-18" RCP @ 1.00%

30"x19" RCP
INV=889.26

EX. 8" WATERMAIN

EX. 8" SAN

RCP TEE
30"x12"
INV=883.15

RCP TEE
30"x12"
INV=883.61

INV=883.88

INV=885.16

RCP TEE
27"x12"
INV=887.77

INV=889.88

INV=891.66

INV=893.35

INV=893.60

RCP TEE
21"x12"
INV=895.44

INV=896.09

INV=896.34

RCP TEE
18"x12"
INV=897.34

INV=898.55

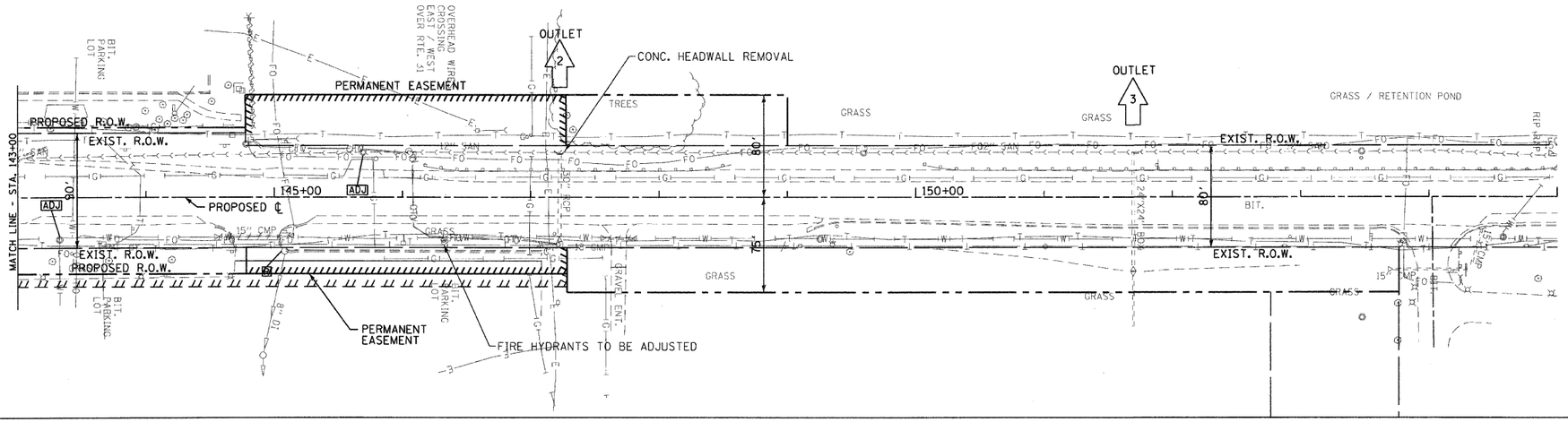
DRAINAGE AND UTILITIES PLAN IL. RTE. 31 STA. 131+00 TO STA. 143+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	86
STA. 143+00	TO STA. 155+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62537				

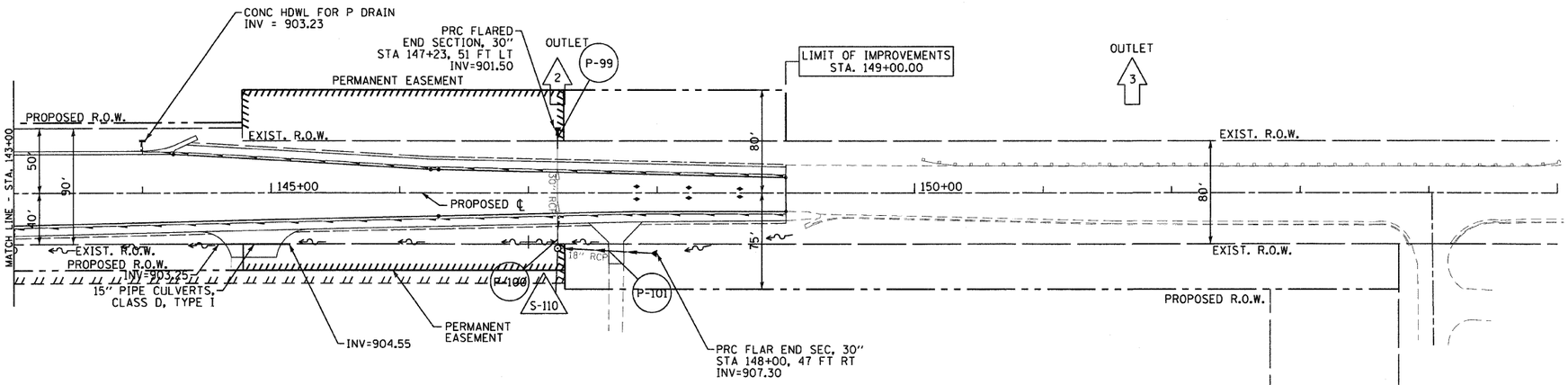
LEGEND

- (ADJ) STRUCTURE TO BE ADJUSTED
- (C) STRUCTURE TO BE CLEANED
- (F) STRUCTURE TO BE FILLED
- (R) STRUCTURE TO BE REMOVED
- (REC) STRUCTURE TO BE RECONSTRUCTED
- (REC) STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME AND LID OR GRATE
- (ADJ) STRUCTURE TO BE ADJUSTED WITH NEW FRAME AND LID OR GRATE
- PIPE REMOVAL
- PIPE UNDERDRAIN

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / ALL NOTES REVISED / CADD FILE NAME / NOTE BOOK NO. / BY / DATE



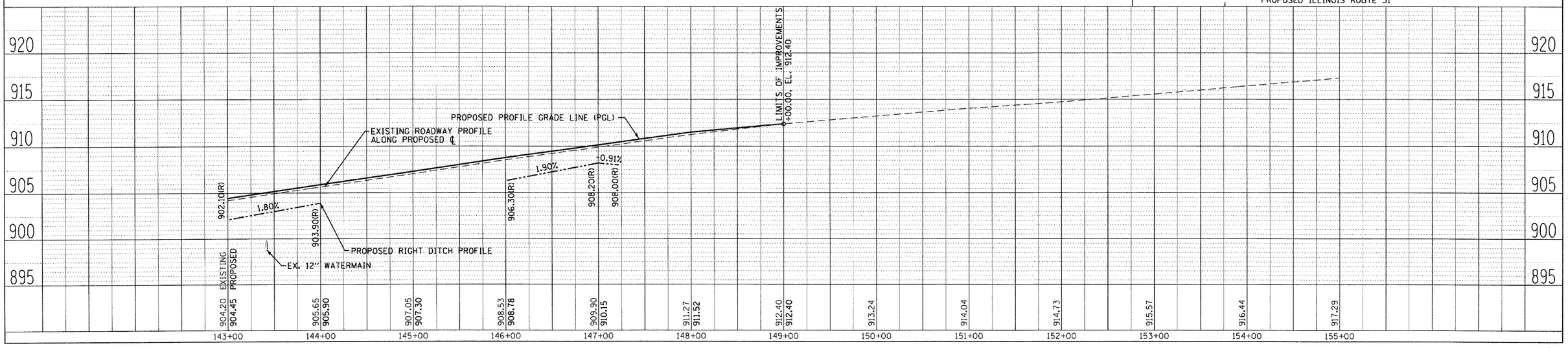
EXISTING ILLINOIS ROUTE 31



HORIZ. (1" = 50') 0 50' 100'
VERT. (1" = 5') 0 5' 10'

PROPOSED ILLINOIS ROUTE 31

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / ALL NOTES REVISED / STRUCTURE NOTATIONS CHKD / NOTE BOOK NO. / BY / DATE



DRAINAGE AND UTILITIES PLAN IL. RTE. 31 STA. 143+00 TO STA. 155+00

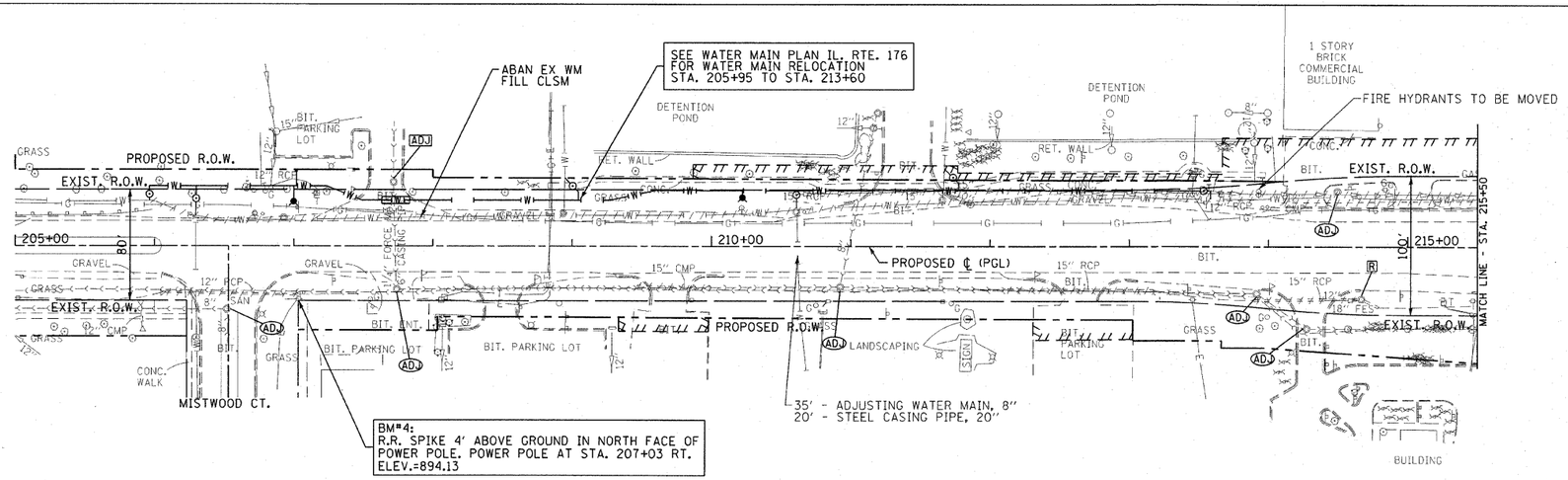
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	87
STA. 205+00	TO STA. 215+50			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62537				

PLAN
SURVEYED
PLOTTED
ADJUSTMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

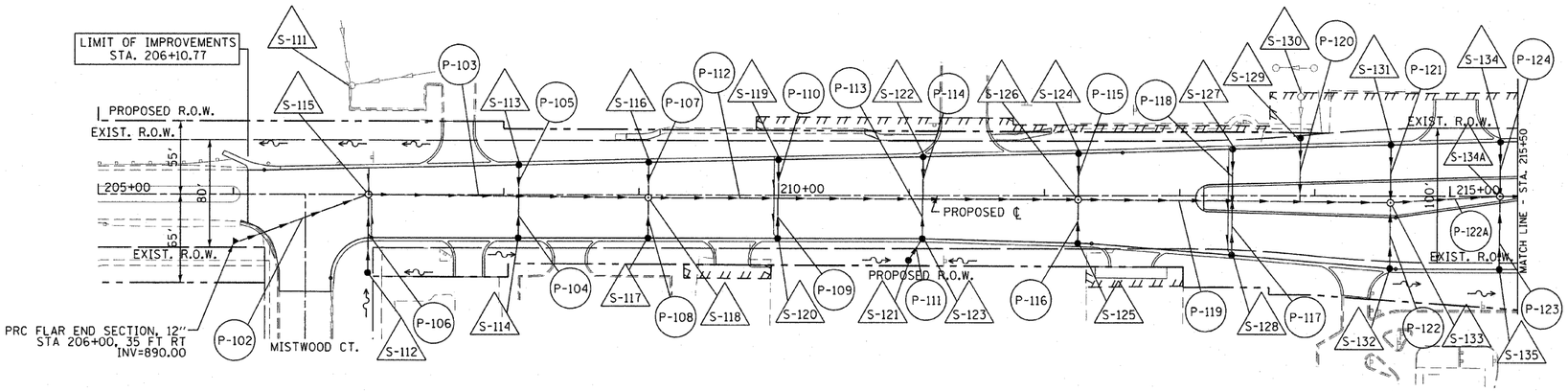
PROFILE
SURVEYED
PLOTTED
DRAWN
CHECKED
R.M.L. NOTED
CADD FILE NAME
NOTE BOOK
NO.
INITIALS
DATE

LEGEND

- ADJ STRUCTURE TO BE ADJUSTED
- C STRUCTURE TO BE CLEANED
- F STRUCTURE TO BE FILLED
- R STRUCTURE TO BE REMOVED
- REC STRUCTURE TO BE RECONSTRUCTED
- REC STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME AND LID OR GRATE
- ADJ STRUCTURE TO BE ADJUSTED WITH NEW FRAME AND LID OR GRATE
- PIPE REMOVAL
- PIPE UNDERDRAIN

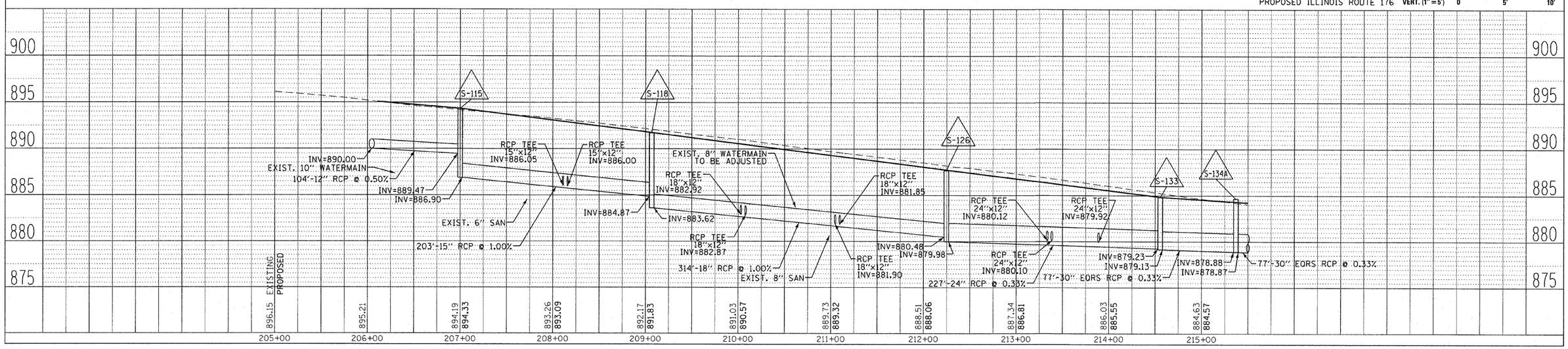


EXISTING ILLINOIS ROUTE 176



PROPOSED ILLINOIS ROUTE 176

HORIZ. (1"=50') 0 50' 100'
VERT. (1"=5') 0 5' 10'



DRAINAGE AND UTILITIES PLAN IL. RTE. 176 STA. 205+00 TO STA. 215+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	88
STA. 215+50	TO STA. 224+50			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

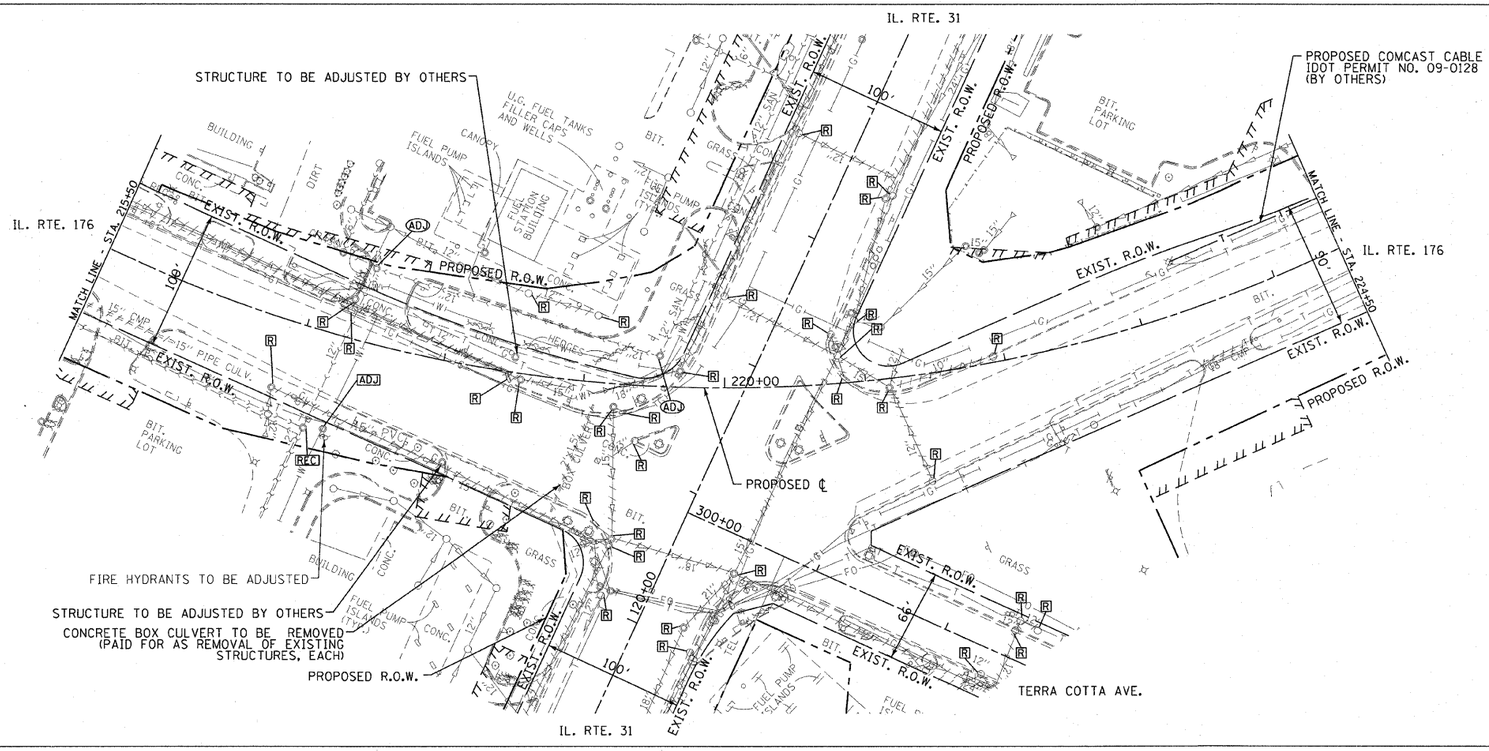
CONTRACT NO. 62537

PLAN — SURVEYED | DRAWN | ALIGNMENT CHECKED | R/W OF WAY CHECKED | NOTE BOOK | FINAL FILE NAME | BY | DATE

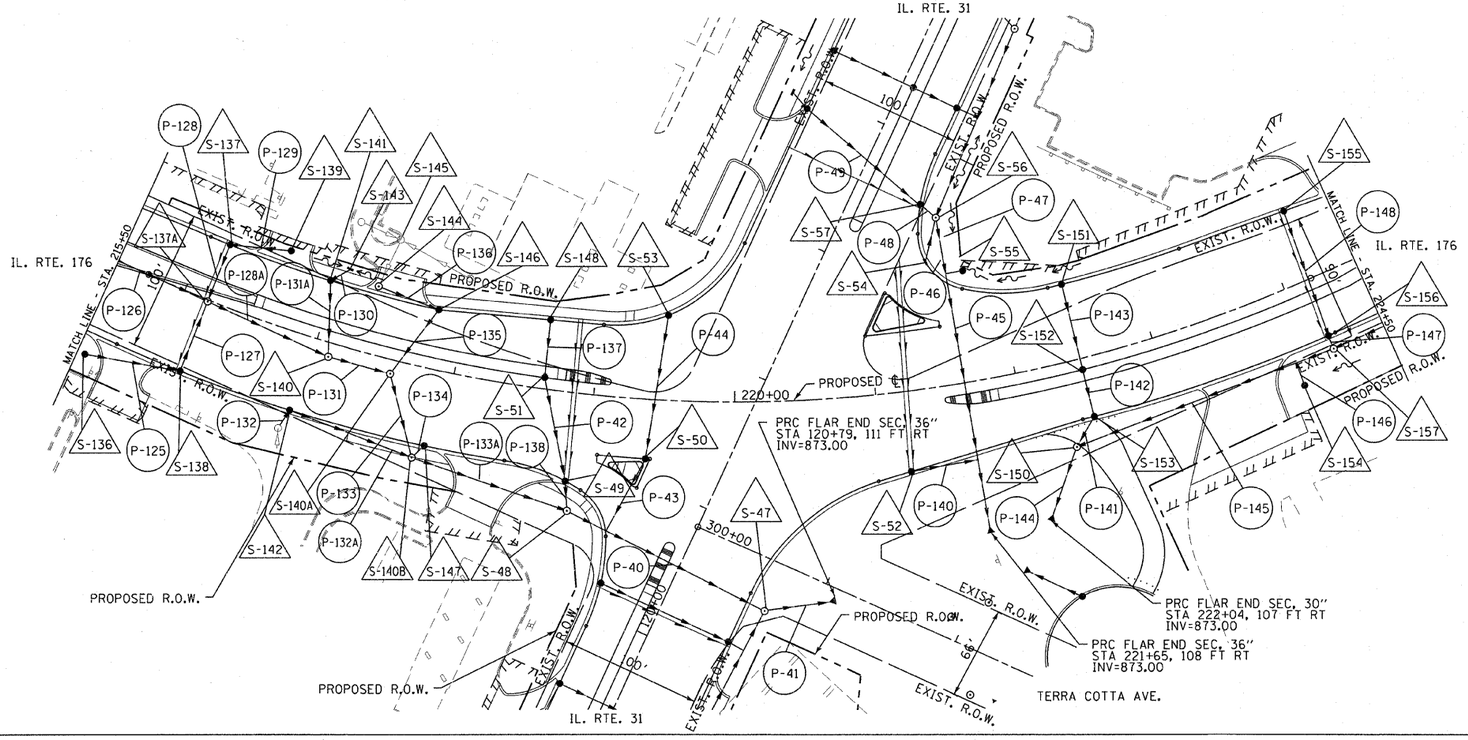
PROFILE — SURVEYED | DRAWN | CROSS SECTIONS CHECKED | BAR NOTED | STRUCTURE NOTES CHECKED | NOTE BOOK | NO. | BY | DATE

LEGEND

- ADJ STRUCTURE TO BE ADJUSTED
- C STRUCTURE TO BE CLEANED
- F STRUCTURE TO BE FILLED
- R STRUCTURE TO BE REMOVED
- REC STRUCTURE TO BE RECONSTRUCTED
- REC STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME AND LID OR GRATE
- ADJ STRUCTURE TO BE ADJUSTED WITH NEW FRAME AND LID OR GRATE
- PIPE REMOVAL
- PIPE UNDERDRAIN



EXISTING ILLINOIS ROUTE 176



PROPOSED ILLINOIS ROUTE 176

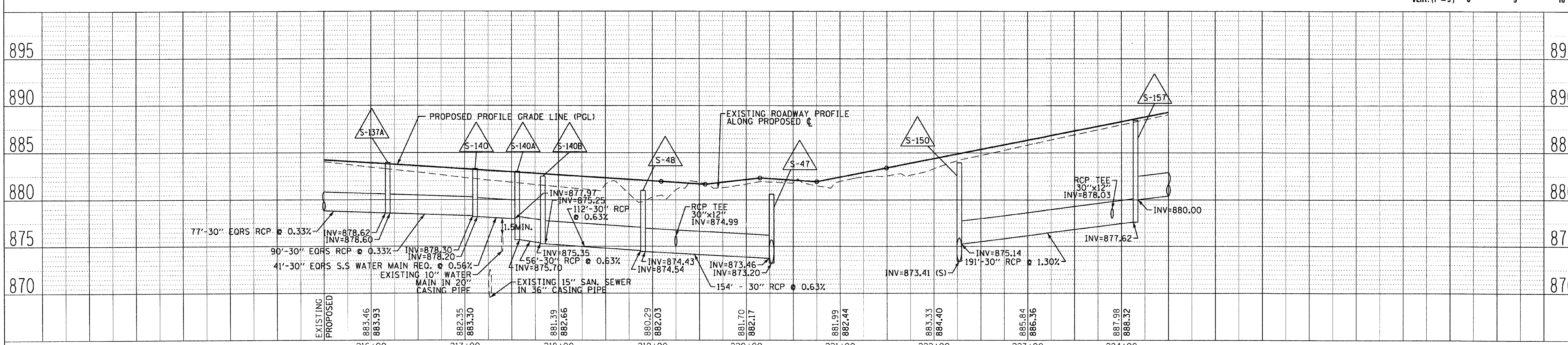
HORIZ. (1" = 50') 0 50' 100'
VERT. (1" = 5') 0 5' 10'

DRAINAGE AND UTILITIES PLAN IL. RTE. 176 STA. 215+50 TO STA. 224+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	89
STA. 215+50	TO STA. 224+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62537				

PLAN
NOTE BOOK NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
R.T. OF WAY CHECKED
CADD FILE NAME
BY
DATE

PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATIONS CHECKED
BY
DATE



DRAINAGE AND UTILITIES PLAN IL. RTE. 176 STA. 215+50 TO STA. 224+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	90
STA. 224+50	TO STA. 236+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62537				

PROPOSED COMCAST CABLE
IDOT PERMIT NO. 09-0128
(BY OTHERS)

FIRE HYDRANTS TO BE MOVED

LEGEND

- (ADJ) STRUCTURE TO BE ADJUSTED
- (C) STRUCTURE TO BE CLEANED
- (F) STRUCTURE TO BE FILLED
- (R) STRUCTURE TO BE REMOVED
- (REC) STRUCTURE TO BE RECONSTRUCTED
- (REC) STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME AND LID OR GRATE
- (ADJ) STRUCTURE TO BE ADJUSTED WITH NEW FRAME AND LID OR GRATE
- PIPE REMOVAL
- PIPE UNDERDRAIN

BM#5:
CUT "X" IN TOP OF CONCRETE CURB AT THE SOUTH DRIVEWAY RETURN TO TOM CROSSTOWN SERVICE.
CUT CROSS AT STA. 225+99 RT.
ELEV.=895.23

EXISTING POTABLE WATER WELLS TO REMAIN

EXISTING ILLINOIS ROUTE 176

WIDENING/RESURFACING BEGINS
STA 233+46.70

12" PIPE CULVERTS, CLASS D, TYPE I
INV=904.47
INV=905.53

INV=906.14
INV=906.65
12" PIPE CULVERTS, CLASS D, TYPE I

HORIZ. (1"=50') 0 50' 100'
PROPOSED ILLINOIS ROUTE 176 VERT. (1"=5') 0 5' 10'

PROPOSED RIGHT DITCH PROFILE
PROPOSED LEFT DITCH PROFILE
EXISTING ROADWAY PROFILE ALONG PROPOSED ℄
PROPOSED PROFILE GRADE LINE (PGL)

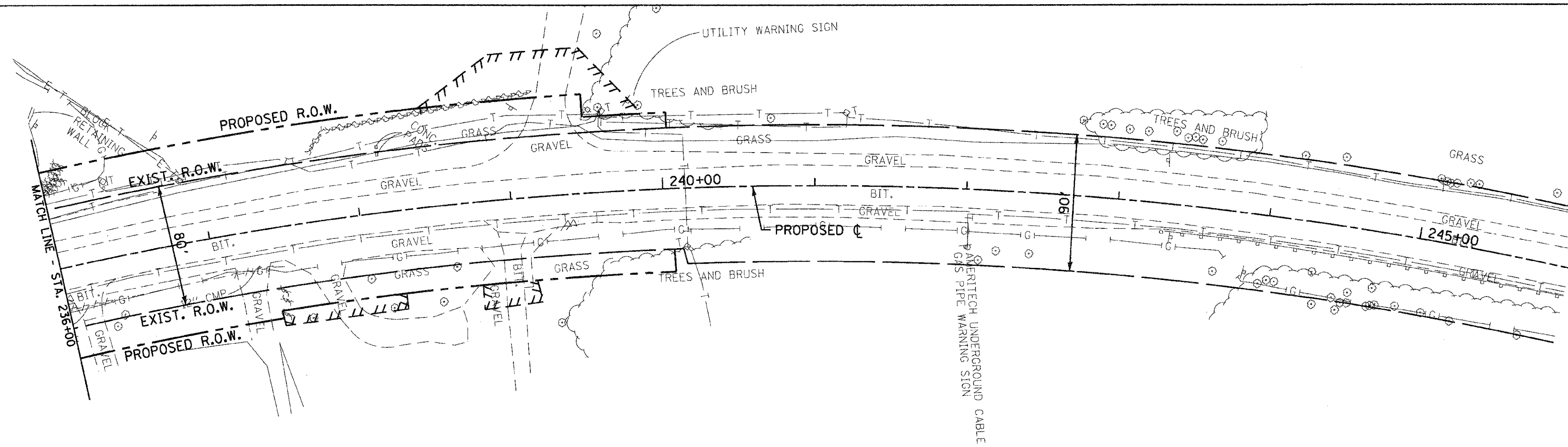
170'-27" RCP @ 1.20%
INV=882.04
INV=884.55
220'-24" RCP @ 1.50%
INV=887.85
INV=889.55
311'-21" RCP @ 1.50%
INV=894.22
210'-18" RCP @ 1.80%
INV=895.62
63'-18" RCP @ 1.80%
INV=899.40
INV=899.50
INV=900.63

RCP TEE 24"x12" INV=886.74
RCP TEE 21"x12" INV=891.39
RCP TEE 21"x12" INV=892.95
RCP TEE 18"x12" INV=898.04

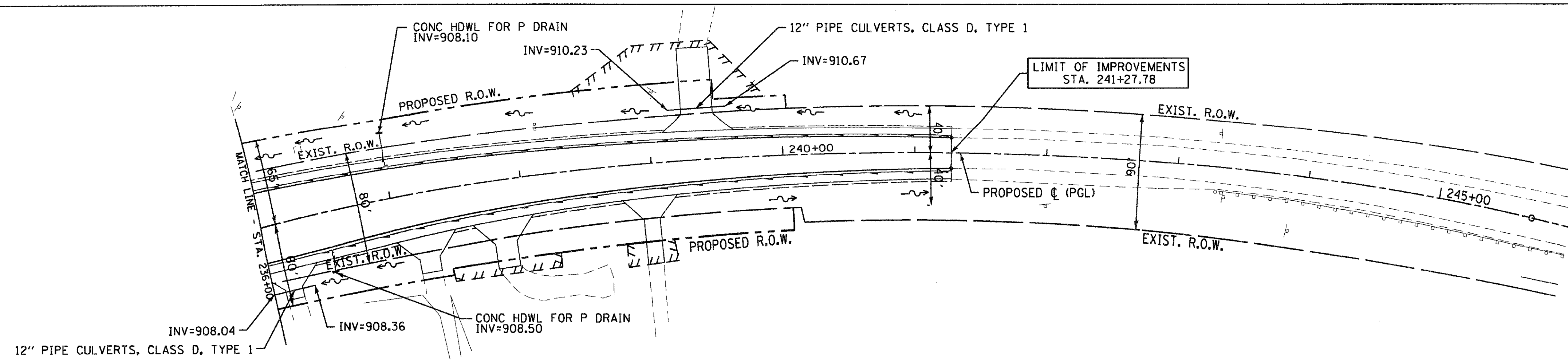
1.00%
1.50%
2.20%
0.45%
0.40%

DRAINAGE AND UTILITIES PLAN IL. RTE. 176 STA. 224+50 TO STA. 236+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	91
STA. 236+00 TO STA. 246+00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62537				

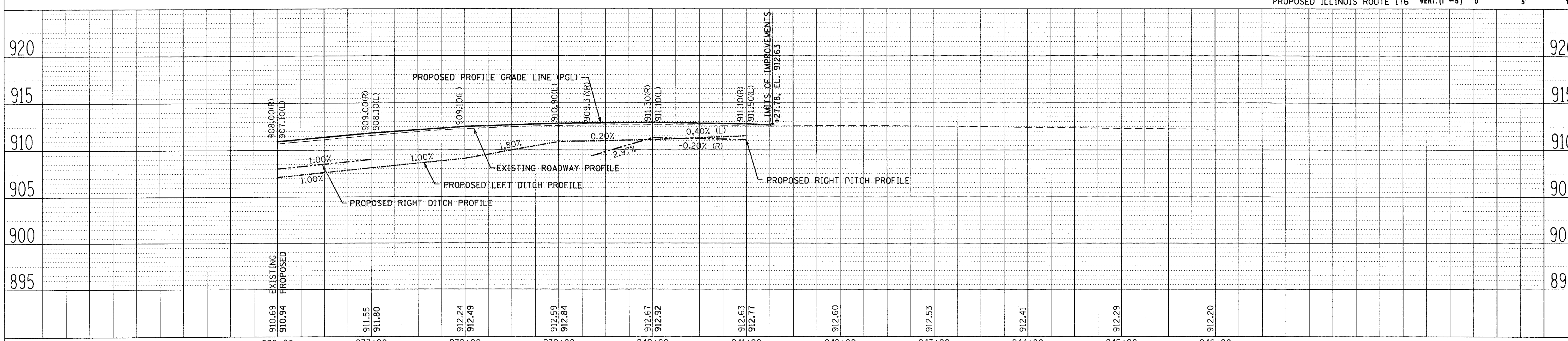


LEGEND
- ADJ STRUCTURE TO BE ADJUSTED
- C STRUCTURE TO BE CLEANED
- F STRUCTURE TO BE FILLED
- R STRUCTURE TO BE REMOVED
- REC STRUCTURE TO BE RECONSTRUCTED
- REC STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME AND LID OR GRATE
- ADJ STRUCTURE TO BE ADJUSTED WITH NEW FRAME AND LID OR GRATE
- PIPE REMOVAL
- PIPE UNDERDRAIN



PROPOSED ILLINOIS ROUTE 176

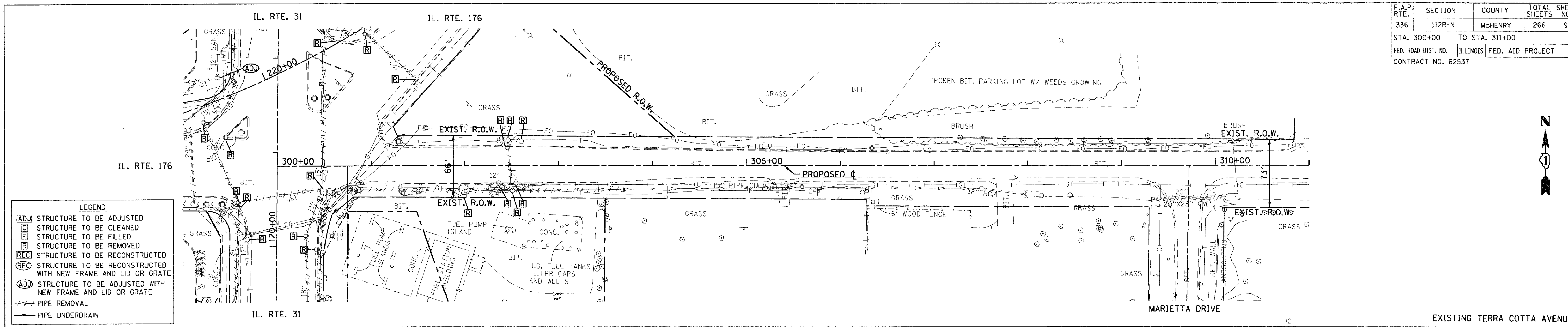
HORIZ. (1" = 50') 0 50' 100'
VERT. (1" = 5') 0 5' 10'



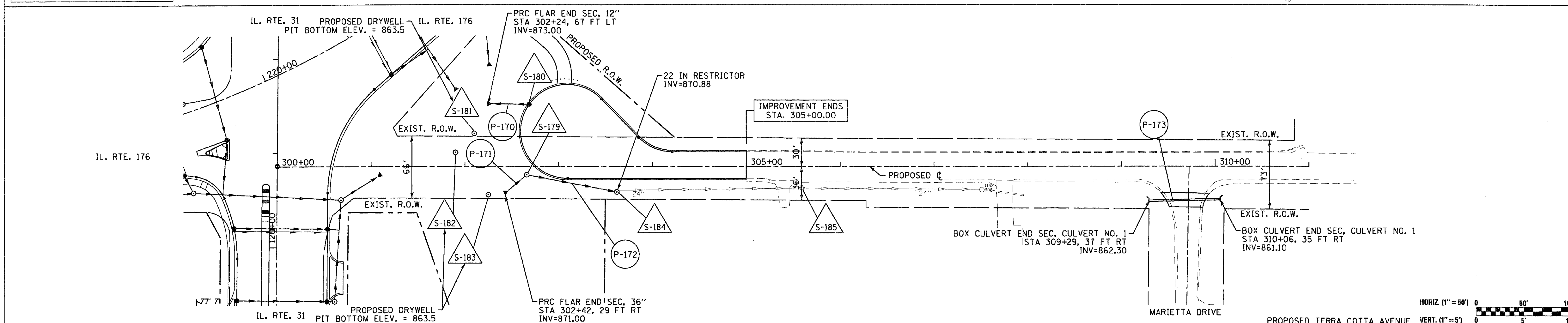
DRAINAGE AND UTILITIES PLAN IL. RTE. 176 STA. 236+00 TO STA. 246+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	92
STA. 300+00	TO STA. 311+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

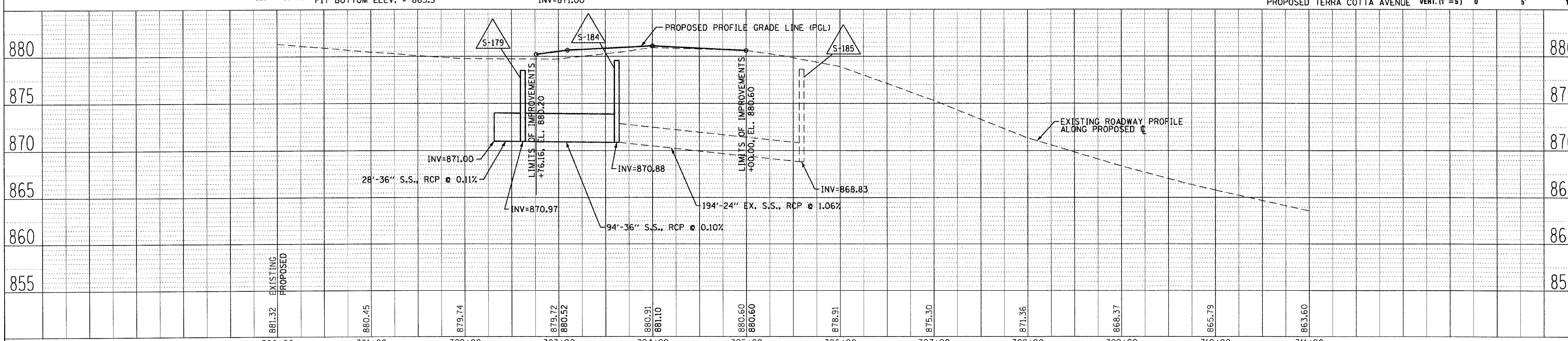
CONTRACT NO. 62537



IL. RTE. 31
IL. RTE. 176
PROPOSED R.O.W.
EXIST. R.O.W.
300+00
305+00
310+00
PROPOSED ℄
BROKEN BIT. PARKING LOT W/ WEEDS GROWING
FUEL PUMP ISLAND
FUEL STATION BUILDING
U.G. FUEL TANKS FILLER CAPS AND WELLS
6' WOOD FENCE
MARIETTA DRIVE
EXISTING TERRA COTTA AVENUE
LEGEND
ADJ STRUCTURE TO BE ADJUSTED
C STRUCTURE TO BE CLEANED
F STRUCTURE TO BE FILLED
R STRUCTURE TO BE REMOVED
REC STRUCTURE TO BE RECONSTRUCTED
REC STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME AND LID OR GRATE
ADJ STRUCTURE TO BE ADJUSTED WITH NEW FRAME AND LID OR GRATE
PIPE REMOVAL
PIPE UNDERDRAIN



PROPOSED DRYWELL PIT BOTTOM ELEV. = 863.5
PRC FLAR END SEC. 12" STA 302+24, 67 FT LT INV=873.00
22 IN RESTRICTOR INV=870.88
IMPROVEMENT ENDS STA. 305+00.00
S-179
S-180
S-181
S-182
S-183
S-184
S-185
P-170
P-171
P-172
P-173
PRC FLAR END SEC. 36" STA 302+42, 29 FT RT INV=871.00
BOX CULVERT END SEC. CULVERT NO. 1 STA 309+29, 37 FT RT INV=862.30
BOX CULVERT END SEC. CULVERT NO. 1 STA 310+06, 35 FT RT INV=861.10
MARIETTA DRIVE
PROPOSED TERRA COTTA AVENUE
HORIZ. (1" = 50')
VERT. (1" = 5')



PROPOSED PROFILE GRADE LINE (PGL)
LIMITS OF IMPROVEMENTS +76.16, EL. 880.20
LIMITS OF IMPROVEMENTS +00.00, EL. 880.60
INV=871.00
28'-36" S.S. RCP @ 0.11%
INV=870.97
INV=870.88
94'-36" S.S. RCP @ 0.10%
194'-24" EX. S.S. RCP @ 1.06%
INV=868.83
EXISTING ROADWAY PROFILE ALONG PROPOSED ℄
EXISTING
PROPOSED
881.32
880.45
879.74
879.72 880.52
880.91 881.10
880.60 880.60
878.91
875.30
871.36
868.37
865.79
863.60
300+00
301+00
302+00
303+00
304+00
305+00
306+00
307+00
308+00
309+00
310+00
311+00
880
875
870
865
860
855

DRAINAGE AND UTILITIES PLAN TERRA COTTA AVENUE STA. 300+00 TO STA. 311+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	93
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

DRAINAGE AND UTILITY PIPE TABLES

NO.	LENGTH (FOOT)	MATERIAL	TYPE	DIA. (IN)	SLOPE %	TBF (CU. YD.)
P-1	7	SS. CL A	2	12	3.14	0.0
P-2	11	SS. CL A	2	12	0.82	0.0
P-3	80	SS. CL A	2	12	0.70	50.6
P-4	35	SS. CL A	2	12	0.71	0.0
P-5	35	SS. CL A	2	12	1.00	0.0
P-6	11	SS. CL A	2	12	1.00	3.9
P-7	74	SS. CL A	2	12	1.00	46.8
P-8	11	SS. CL A	2	12	1.00	3.9
P-9	9	SS. CL A	2	12	1.00	0.0
P-10	24	SS. CL A	2	12	1.00	0.0
P-11	74	SS. CL A	2	12	1.00	28.3
P-12	76	SS. CL A	2	12	1.58	48.0
P-13	11	SS. CL A	2	12	2.00	0.0
P-14	10	SS. CL A	2	12	2.00	1.6
P-15	10	SS. CL A	2	12	1.00	0.0
P-16	30	SS. CL A	2	12	1.00	0.0
P-17	48	SS. CL A	2	12	1.00	14.2
P-18	10	SS. CL A	2	12	2.00	0.0
P-19	5	SS. CL A	2	12	2.00	0.0
P-20	3	SS. CL A	2	12	1.00	0.0
P-21	84	SS. CL A	2	12	1.00	32.2
P-22	84	SS. CL A	2	12	2.36	58.5
P-23	6	SS. CL A	2	12	2.00	0.0
P-24	20	SS. CL B	2	4	5.00	3.7
P-25	90	SS. CL A	2	12	1.00	71.3
P-26	5	SS. CL A	2	12	1.00	0.0
P-27	151	SS. CL A	2	24	0.96	86.0
P-28	25	SS. CL A	2	12	1.00	12.7
P-29	25	SS. CL A	2	12	1.00	6.5
P-30	6	SS. CL A	2	12	0.50	0.0
P-31	57	SS. CL A	2	12	0.61	17.0
P-32	34	SS. CL A	2	12	0.62	9.5
P-33	148	SS. CL A	2	21	0.25	67.0
P-34	3	SS. CL A	2	12	1.00	2.1
P-35	94	SS. CL A	2	12	1.00	36.0
P-36	36	SS. CL A	2	12	1.00	11.5
P-37	104	SS. CL A	2	24	0.25	45.5
P-38	10	SS. CL A	2	12	1.70	0.0
P-39	99	SS. CL A	2	12	2.00	72.1
P-40	154	SS. CL A	2	30	0.63	148.6
P-41	45	SS. CL A	1	36	0.44	0.0
P-42	73	SS. WM REQ	-	12	1.00	50.8
P-43	50	SS. CL A	2	12	1.12	41.2
P-44	104	SS. WM REQ	-	12	0.50	39.8
P-45	216	SS. CL A	1	36	0.48	228.5
P-46	9	SS. CL A	2	15	2.00	0.0
P-47	28	SS. CL A	2	12	1.00	0.6
P-48	9	SS. CL A	2	12	1.00	0.0
P-49	105	SS. CL A	2	12	1.00	53.3
P-50	10	SS. WM REQ	-	12	1.00	2.9
P-51	62	SS. WM REQ	-	12	2.00	53.1
P-52	30	SS. CL A	2	12	2.00	31.0
P-53	14	SS. CL A	2	12	2.20	0.0
P-54	142	SS. CL A	2	36	0.53	0.0
P-55	11	SS. CL A	2	12	1.00	0.0
P-56	95	SS. WM REQ	-	12	1.00	96.6
P-57	21	SS. WM REQ	-	12	1.10	9.8
P-58	91	SS. WM REQ	-	12	2.20	79.4
P-59	11	SS. CL A	2	12	1.55	0.0
P-60	221	SS. CL A	2	36	0.53	63.3
P-61	10	SS. CL A	2	12	1.80	0.0
P-62	89	SS. CL A	2	12	2.00	77.6
P-63	33	SS. WM REQ	-	12	1.00	1.0
P-64	83	SS. CL A	2	12	1.00	31.8
P-65	7	SS. CL A	2	12	1.00	5.0
P-66	10	SS. CL A	2	12	2.00	2.7
P-67	6	SS. CL A	2	12	3.00	0.0
P-68	81	SS. WM REQ	-	12	0.84	31.0
P-69	78	SS. WM REQ	-	12	1.00	39.6
P-70	10	SS. CL A	2	12	2.00	0.0
P-71	248	SS. CL A	2	30	0.89	80.6
P-72	12	SS. CL A	2	12	1.08	3.5
P-73	70	SS. WM REQ	-	12	0.50	23.1
P-74	10	SS. CL A	2	12	3.00	0.6
P-75	65	SS. WM REQ	-	12	1.38	24.9
P-76	12	SS. CL A	2	12	1.00	1.4
P-77	321	SS. CL A	2	30	0.89	38.1
P-78	3	SS. CL A	2	12	2.00	0.0
P-79	10	SS. CL A	2	12	2.00	0.0
P-80	64	SS. WM REQ	-	12	1.31	24.5
P-81	64	SS. WM REQ	-	12	0.59	23.2
P-82	4	SS. CL A	2	12	1.00	0.0
P-83	9	SS. WM REQ	-	12	1.00	0.0
P-84	64	SS. WM REQ	-	12	0.70	19.1
P-85	342	SS. CL A	2	27	1.38	20.1
P-86	8	SS. WM REQ	-	12	0.80	0.0
P-87	64	SS. WM REQ	-	12	0.80	23.9
P-88	67	SS. CL A. EQRS	2	30x19	1.00	0.0
P-89	154	SS. CL A. EQRS	2	30x19	0.80	79.5
P-90	103	SS. CL A. EQRS	2	30x19	0.75	59.4
P-91	32	SS. CL A	2	12	0.50	2.6
P-92	33	SS. CL A	1	12	0.50	7.4
P-93	169	SS. CL A. EQRS	2	30x19	1.00	19.2
P-94	5	SS. WM REQ	-	12	2.00	0.0
P-95	249	SS. CL A	2	21	1.00	23.6

DRAINAGE AND UTILITY PIPE TABLES

NO.	LENGTH (FOOT)	MATERIAL	TYPE	DIA. (IN)	SLOPE %	TBF (CU. YD.)
P-96	4	SS. CL A	2	12	1.00	0.0
P-97	4	SS. CL A	2	12	1.50	0.0
P-98	221	SS. CL A	2	18	1.00	19.4
P-99	11	SS. CL A	2	30	2.71	0.0
P-100	9	SS. WM REQ	-	30	2.71	0.0
P-101	69	SS. CL A	2	30	3.24	3.9
P-102	104	SS. WM REQ	-	12	0.50	57.8
P-103	203	SS. CL A	2	15	1.00	217.2
P-104	31	SS. CL A	2	12	6.84	10.6
P-105	22	SS. CL A	2	12	4.50	17.1
P-106	54	SS. CL A	2	12	0.50	22.1
P-107	24	SS. CL A	2	12	1.00	9.2
P-108	28	SS. CL A	2	12	1.00	14.2
P-109	28	SS. CL A	2	12	1.07	9.5
P-110	30	SS. CL A	2	12	1.02	10.2
P-111	16	SS. CL A	2	12	0.50	0.0
P-112	314	SS. CL A	2	18	1.00	374.6
P-113	29	SS. CL A	2	12	7.48	14.7
P-114	31	SS. CL A	2	12	3.00	25.5
P-115	32	SS. CL A	2	12	1.00	11.9
P-116	30	SS. CL A	2	12	1.00	11.2
P-117	42	SS. CL A	2	12	3.93	14.3
P-118	39	SS. CL A	2	12	3.10	24.6
P-119	227	SS. CL A	2	24	0.33	238.1
P-120	47	SS. WM REQ	-	12	2.64	23.9
P-121	41	SS. WM REQ	-	12	1.73	14.4
P-122	47	SS. CL A	2	12	0.50	16.0
P-122A	77	SS. CL A. EQRS	2	38x24	0.33	79.9
P-123	52	SS. CL A	2	12	0.50	32.9
P-124	38	SS. WM REQ	-	12	0.50	19.3
P-125	64	SS. CL A	2	12	0.50	15.2
P-126	77	SS. CL A. EQRS	2	38x24	0.33	77.9
P-127	52	SS. CL A	2	12	0.50	19.4
P-128	45	SS. WM REQ	-	12	0.50	17.2
P-128A	90	SS. CL A. EQRS	2	38x24	0.33	82.1
P-129	42	SS. WM REQ	-	12	0.50	12.6
P-130	15	SS. CL A	2	12	1.00	3.6
P-131	41	SS. WM REQ	-	38x24	0.56	36.3
P-131A	51	SS. WM REQ	-	12	0.50	19.5
P-132	11	SS. CL A	2	12	0.50	0.0
P-132A	88	SS. WM REQ	-	12	0.50	66.9
P-133	56	SS. CL A	2	30	0.63	66.1
P-133A	112	SS. CL A	2	30	0.63	57.7
P-134	8	SS. CL A	2	12	1.00	2.8
P-135	54	SS. WM REQ	-	12	0.50	43.6
P-136	40	SS. CL A	2	12	0.58	28.5
P-137	40	SS. WM REQ	-	12	1.00	25.3
P-138	17	SS. CL A	2	12	1.00	5.4
P-139	OMITTED					
P-140	46	SS. CL A	2	12	2.00	45.3
P-141	20	SS. CL A	2	12	1.00	14.2
P-142	31	SS. CL A	2	12	1.00	23.6
P-143	63	SS. CL A	2	12	1.00	40.8
P-144	47	SS. CL A	1	30	0.75	0.0
P-145	190	SS. CL A	2	30	1.30	157.3
P-146	15	SS. CL A	2	12	1.00	0.0
P-147	5	SS. CL A	2	12	1.00	0.0
P-148	93	SS. CL A	2	12	1.00	58.8
P-149	82	SS. CL A	2	12	1.00	31.4
P-150	5	SS. CL A	2	12	1.00	0.0
P-151	165	SS. CL A	2	27	1.20	0.0
P-152	9	SS. CL A	2	12	1.89	0.0
P-153	80	SS. CL A	2	12	2.01	65.9
P-154	220	SS. CL A	2	24	1.50	110.0
P-155	6	SS. CL A	2	12	1.00	0.0
P-156	69	SS. CL A	2	12	0.80	76.8
P-157	32	SS. CL A	2	12	0.80	0.0
P-158	64	SS. CL A	2	12	1.50	49.7
P-159	8	SS. CL A	2	12	1.50	0.0
P-160	9	SS. CL A	2	12	2.00	0.0
P-161	57	SS. CL A	2	12	2.00	47.9
P-162	311	SS. CL A	2	21	1.50	97.8
P-163	6	SS. CL A	2	12	1.00	0.0
P-164	52	SS. CL A	2	12	1.00.	19.4
P-165	52	SS. CL A	2	12	2.00	42.8
P-166	9	SS. CL A	2	12	2.00	0.0
P-167	210	SS. CL A	2	18	1.80	74.0
P-168	63	SS. CL A	2	18	1.80	22.1
P-169	86	SS. CL A	2	12	1.00	46.7
P-170	35	SS. CL A	1	12	1.00	0.0
P-171	21	SS. CL A	1	36	0.11	0.0
P-172	94	SS. CL A	2	36	0.10	41.6
P-173	75	PRC BOX CUL	-	4'x2'	1.60	11.0

DRAINAGE AND UTILITY STRUCTURE TABLES

STRUCT. NO.	STATION	OFFSET	STRUCTURE TYPE	RIM	INVERT			
					NORTH	SOUTH	EAST	WEST
S-1	109+62	42' RT	CB TA 4' DIA T24 F&G	874.95	-	-	869.95	-
S-2	110+00	56' LT	INLET TA T8G	873.60	870.60 (NE)	-	-	-
S-3	110+32	37.5' LT	CB TA 4' DIA T24 F&G	874.57	-	870.35 (SW)	870.25	-
S-4	110+60	37.5' RT	CB TA 4' DIA T24 F&G	874.53	-	-	869.59	869.69
S-5	111+26	55' LT	INLET TA T8G	873.57	870.57	-	-	-
S-6	111+57	37.5' LT	CB TA 4' DIA T24 F&G	874.14	870.03	870.22	869.93	-
S-7	111+57	37.5' RT	CB TA 4' DIA T24 F&G	874.24	870.11	-	869.09	869.19
S-8	111+57	51' RT	DRYWELL 5' DIA T8G	872.27	868.50	868.53	-	869.00
S-9	111+73	37.5' LT	CB TA 4' DIA T24 F&G	874.14	-	870.14	-	-
S-10	111+73	37.5' RT	CB TA 4' DIA T24 F&G	874.22	-	870.22	-	-
S-11	112+47	38' LT	CB TC T24 F&G	874.37	-	-	870.37	-
S-12	112+47	37.5' RT	CB TA 4' DIA T24 F&G	874.47	869.53 (NE)	-	-	869.63
S-13	112+72	51' RT	EX	874.37	868.25	868.25	-	869.29 (SW)
S-14	113+26	40' LT	CB TC T24 F&G	874.66	-	-	870.66	-
S-15	113+26	37.5' RT	CB TA 4' DIA T24 F&G	874.76	-	-	869.36	869.46
S-16	113+74	42' LT	CB TC T24 F&G	874.82	-	-	-	870.82
S-17	113+74	57' LT	CB TA 4' DIA T8G	873.25	870.62	-	870.72	-
S-18	113+92	39' RT	CB TA 4' DIA T24 F&G	875.03	-	-	869.22	-
S-19	113+98	77' LT	EX	874.89	871.34	-	871.59	871.24
S-20	114+08	50' LT	EX	875.30	869.58	870.32	868.85	870.70
S-21	114+60	44.5' LT	CB TC T24 F&G	875.14	-	-	-	869.93
S-22	114+60	57' LT	CB TA 4' DIA T8G	873.20	-	870.06	870.16	-
S-23	114+60	43' RT	CB TA 4' DIA T24 F&G	875.30	-	-	869.35	-
S-24	115+29	52' RT	EX	876.00	868.61	868.61	-	870.50
S-25	115+32	42' LT	CB TC T24 F&G	875.47	-	-	871.47	-
S-26	115+32	44' RT	CB TA 4' DIA T24 F&G	875.49	-	-	870.53	870.63
S-27	116+04	42' LT	CB TA 4' DIA T24 F&G	875.81	871.91	-	871.81	-
S-28	116+04	44' RT	CB TA 4' DIA T24 F&G	875.89	-	-	869.73	869.83
S-29	116+37	48' LT	CB TC T1F, CL	876.54	873.87 (NE)	-	-	873.97
S-30	116+37	109' LT	EX	874.99	-	-	874.04	874.04
S-31	116+61	42' LT	CB TA 4' DIA T24 F&G	876.22	871.24	872.87 (SW)	871.14	-
S-32	116+85	46' RT	CB TA 4' DIA T24 F&G	876.35	-	-	870.14	870.24
S-33	116+85	55' RT	MAN TA 5' DIA T1F CL	876.75	-	870.06	-	870.09
S-34	116+89	50' LT	INLET TA T3 F&G	875.93	871.59	871.49	-	-
S-35	117+13	74' LT	EX	876.19	-	-	873.69	-
S-36	117+17	56' LT	CB TA 4' DIA T24 F&G	875.84	-	871.84	-	873.54
S-37	117+91	8' LT	CB TA 4' DIA T3 F&G	878.16	-	-	874.37	874.42
S-38	117+91	42' LT	CB TC T24 F&G	877.63	-	-	874.63	-
S-39	117+91	52' RT	CB TA 4' DIA T24 F&G	877.43	-	-	873.97	874.02
S-40	117+91	63' RT	MAN TA 5' DIA T8G	877.79	873.93	-	-	873.94
S-41	OMITTED							
S-42	119+43	42' LT	INLET TA T24 F&G	879.40	-	875.30	875.30	-
S-43	119+43	54' RT	CB TA 4' DIA T24 F&G	879.16	-	-	874.36	874.36
S-44	119+43	62' RT	MAN TA 5' DIA T1F CL	879.50	873.56	873.56	-	874.33
S-45	120+20	54' RT	CB TA 4' DIA T24 F&G	879.99	-	-	873.76	873.76
S-46	120+20	45' LT	CB TC T24 F&G	880.24	-	-	875.74	-
S-47	120+51	68' RT	MAN TA 5' DIA T1F CL	880.[illegible]2	873.2 (NE)	873.30	-	873.46
S-48	120+57	89' LT	MAN TA 5' DIA T1F CL	881.01	876.08	-	874.43	874.54
S-49	120+76	99' LT	CB TA 4' DIA T24 F&G	881.16	876.35	876.25	-	-
S-50	121+14	54' LT	CB TA 4' DIA T24 F&G	881.37	876.59	875.55	-	-
S-51	121+36	143' LT	INLET TA T3 F&G	882.28	877.18	877.08	-	-
S-52	121+85	121' RT	CB TA 4' DIA T24 F&G	881.96	-	-	875.17	-
S-53	122+13	82' LT	CB TA 4' DIA T24 F&G	881.11	-	877.11	-	-
S-54	123+23	68' RT	INLET TA T24 F&G	882.15	-	-	-	879.15
S-55	123+29	94' RT	CB TA 4' DIA T8G	882.98	877.07 (NE)	-	-	874.95
S-56	123+55	61' RT	DRYWELL 5' DIA T1F CL	882.62	874.07	878.87	874.07 (SE)	877.22
S-57	123+59	47' RT	CB TA 4' DIA T24 F&G	882.50	-	-	877.31	877.41
S-58	123+87	54' LT	CB TA 4' DIA T24 F&G	882.46	-	-	878.46	879.00
S-59	123+93	68' LT	INLET TA T8G	882.68	-	-	879.10	-
S-60	124+32	54' LT	CB TC T24 F&G	882.72	-	-	877.72	-
S-61	124+32	8' RT	CB TA 4' DIA T3 F&G	883.50	-	-	876.38	876.48
S-62	124+32	42' RT	CB TA 4' DIA T24 F&G	882.96	-	-	875.78	875.88
S-63	124+90	74' LT	EX	883.20	877.14 (NW)	-	877.04 (NE)	-
S-64	125+00	56' RT	DRYWELL 5' DIA T8G	882.60	874.92	874.82	-	875.55
S-65	125+06	54' LT	CB TA 4' DIA T24 F&G	883.11	-	876.81 (SW)	876.71	-
S-66	OMITTED							
S-67	125+06	42' RT	CB TA 4' DIA T24 F&G	883.35	-	-	875.66	875.76
S-68	125+80	50' LT	CB TC T24 F&G	883.60	-	-	878.60	-
S-69	125+80	42' RT	CB TA 4' DIA T24 F&G	883.74	-	-	876.50	876.60
S-70	126+40	46' RT	CB TC T24 F&G	883.96	-	-	878.96	-
S-71	126+54	42' RT	CB TA 4' DIA T24 F&G	884.13	-	-	877.00	876.90
S-72	126+92	54' LT	INLET TA T8G	884.54	-	-	880.81	-
S-73	127+26	42' LT	CB TA 4' DIA T24 F&G	884.47	-	-	880.47	880.57
S-74	127+26	42' RT	CB TA 4' DIA T24 F&G	884.49	-	-	879.54	879.64
S-75	127+26	54 ' RT	MAN TA 5' DIA T1F CL	884.79	878.71	876.09	-	879.47
S-76	128+00	41' LT	CB TA 4' DIA T24 F&G	885.18	-	-	881.18	-
S-77	128+11	40' RT	CB TA 4' DIA T24 F&G	885.33	-		880.40	880.50
S-78	128+22	60' RT	CB TA 4' DIA T8G	885.52	-	-	-	880.48
S-79	128+74	41' LT	CB TA 4' DIA T24 F&G	885.93	-	-	881.84	-
S-80	128+74	39' RT	CB TA 4' DIA T24 F&G	886.01	-	-	880.96	881.06
S-81	129+68	36' RT	CB TA 4' DIA T24 F&G	886.69	-	-	882.54	882.64
S-82	129+78	50' RT	MAN TA 5' DIA T8G	886.40	881.02	880.92	-	882.42
S-83	129+74	38' LT	INLET TB T24 F&G	886.73	-	-	882.99	883.09
S-84	129+776	49' LT	INLET TA T8G	887.38	-	-	883.39	-
S-85	130+73	33' LT	CB TC T24 F&G	887.72	-	-	883.72	-
S-86	130+73	33' RT	CB TA 4' DIA T24 F&G	887.72	-	-	882.72	882.82
S-87	131+35	51' RT	CB TC T8G	886.98	-	-	-	883.21
S-88	131+87	32.5' LT	CB TA 4' DIA T24 F&G	888.75	-	-	884.75	-
S-89	131+87	32.5' RT	CB TA 4' DIA T24 F&G	888.77	-	-	883.81	883.91
S-90	133+03	32.5' LT	CB TC T24 F&G	889.78	-	-	885.78	-
S-91	133+03	32.5' RT	CB TA 4' DIA T24 F&G	889.80	-	-	885.30	885.40
S-92	133+03	42' RT	MAN TA 5' DIA T1F CL	890.82	885.16	883.88	-	885.26
S-93	134+52	32.5' LT	CB TC T24 F&G	891.73	-	-	888.41	-
S-94	134+52	32.5' RT	CB TA 4' DIA T24 F&G	891.75	-	-	887.86	887.96
S-95	136+49	32.5' LT	CB TC T24 F&G	894.49	-	-	890.49	-
S-96	136+49	32.5' RT	RD CB TA 4' DIA T24 F&G (15")	894.51	-	-	889.94	889.98
S-97	136+49	45' RT	MAN TA 5' DIA T1F CL	894.81	891.66	889.88	-	889.90
S-98	136+72	54' LT	MAN TA 5' DIA T8G	895.00	890.10	-	890.00	-
S-99	137+43	52' LT	MAN TA 5' DIA T1F CL	895.98	890.87	890.77	-	892.46 (NW)
S-100	137+73	72' LT	CB TA 4' DIA T24 F&G	895.50	892.72	892.62 (SE)	-	-
S-101	138+08	77' LT	CB TC T24 F&G	895.88	-	892.88	-	-
S-102	138+17	39.75' RT	CB TA 4' DIA T24 F&G	896.61	-	-	893.70	-
S-103	138+22	47' RT	MAN TA 5' DIA T1F CL	897.13	893.60	893.35	-	893.50
S-104	139+00	49' LT	CB TA 4' DIA T8G	896.22	-	892.10	894.22	-
S-105	139+70	43' RT	CB TC T8G	898.50	-	-	895.48	896.50
S-106	140+75	47' RT	MAN TA 5' DIA T8G	899.75	896.34	896.09	-	-
S-107	141+52	42' RT	CB TC T8G	901.02	-	-	897.40	-

DRAINAGE AND UTILITY STRUCTURE TABLES

STRUCT. NO.	STATION	OFFSET	STRUCTURE TYPE	RIM	INVERT			
					NORTH	SOUTH	EAST	WEST
S-108	143+00	44' RT	MAN TA 4' DIA T8G	902.10	-	898.55	-	900.10
S-109	OMITTED							
S-110	147+23	43' RT	MAN TA 5' DIA T8G	908.00	904.87	-	-	903.87
S-111	206+87	81' LT	EX	894.38	889.98	890.98	890.68	-
S-112	207+00	58' RT	CB TC T8G	889.50	887.50	-	-	-
S-113	208+11	22' LT	CB TA 4' DIA T24 F&G	892.48	-	886.98	-	-
S-114	208+11	32' RT	CB TC T24 F&G	892.18	888.18	-	-	-
S-115	207+00	0' RT	MAN TA 4' DIA T1F CL	894.33	-	887.23	886.90	889.47
S-116	209+07	24' LT	CB TC T24 F&G	891.23	-	887.23	-	-
S-117	209+07	32' RT	CB TC T24 F&G	891.07	887.07	-	-	-
S-118	209+07	2' RT	MAN TA 4' DIA T1F CL	891.70	886.99	886.79	883.62	884.87
S-119	210+03	26' LT	CB TA 4' DIA T24 F&G	889.98	-	885.98	-	-
S-120	210+03	32' RT	CB TC T24 F&G	889.86	885.86	-	-	-
S-121	211+00	48' RT	CB TA 4' DIA T8G	888.20	884.20	-	-	-
S-122	211+10	29' LT	CB TA 4' DIA T24 F&G	888.58	-	882.83	-	-
S-123	211+10	32' RT	RD CB TA 4' DIA T24 F&G (15")	888.52	884.02	884.12	-	-
S-124	212+25	31' LT	CB TC T24 F&G	887.39	-	883.39	-	-
S-125	212+25	35' RT	CB TC T24 F&G	887.39	883.39	-	-	-
S-126	212+25	3' RT	MAN TA 5' DIA T1F CL	887.69	883.07	883.09	879.98	880.48
S-127	213+39	35' LT	CB TC T24 F&G	885.89	-	881.33	-	-
S-128	213+39	44' RT	CB TC T24 F&G	885.75	881.75	-	-	-
S-129	213+89	43' LT	CB TC T1F, CL	885.64	883.76	881.16	-	-
S-130	213+89	74' LT	EX	891.36	887.76	886.46	-	-
S-131	214+56	38' LT	CB TC T24 F&G	884.37	-	880.87	-	-
S-132	214+56	54' RT	CB TC T24 F&G	885.09	881.09	-	-	-
S-133	214+56	5' RT	MAN TA 5' DIA T1F OL	884.81	880.16	880.86	879.13	879.23
S-134	215+37	41' LT	CB TC T24 F&G	883.81	-	879.81	-	-
S-134A	215+37	0' RT	MAN TA 5' DIA T1F OL	884.66	879.62	879.36	878.87	878.88
S-135	215+37	54' RT	CB TC T24 F&G	883.57	879.62	-	-	-
S-136	215+56	70' RT	CB TC T8G	882.54	-	-	879.67	-
S-137	216+18	42' LT	CB TA 4' DIA T24 F&G	883.26	-	879.30	879.40	-
S-137A	216+18	1' RT	MAN TA 5' DIA T1F CL	883.96	879.08	879.09	878.60	878.62
S-138	216+18	54' RT	CB TA 4' DIA T24 F&G	883.04	879.35	-	-	879.35
S-139	216+62	53' LT	CB TC T1F OL	882.85	-	-	-	879.61
S-140	217+11	10' RT	MAN TA 5' DIA T1F CL	883.32	878.52	-	878.20	878.30
S-140A	217+56	10' RT	MAN TA 5' DIA T1F CL	883.03	876.74	-	875.70	877.97
S-140B	217+83.5	64' RT	MAN TA 6' DIA T1F CL	882.18	875.35 (NW)	877.89 (NE)	875.25	876.74
S-141	216+96	42' LT	CB TA 4' DIA T24 F&G	882.77	878.87	878.77	-	-
S-142	216+96	54' RT	CB TA 4' DIA T24 F&G	882.55	-	877.18	877.18	-
S-143	217+08	54' LT	INLET TA T8G	882.90	-	879.02	-	-
S-144	217+32	48' LT	MAN TA 4' DIA T1F CL	882.16	877.24	-	877.24	-
S-145	217+40	84' LT	EX	882.78	877.28 (NE)	877.28	877.28	877.28
S-146	217+80	42' LT	CB TA 4' DIA T24 F&G	882.21	-	877.01	-	877.01
S-147	217+90	54' RT	CB TA 4' DIA T24 F&G	881.97	-	877.97	-	-
S-148	218+63	49' LT	CB TC T24 F&G	881.58	-	877.58	-	-
S-149	OMITTED							
S-150	222+31	60' RT	MAN TA 5' DIA T1F CL	883.96	879.20	873.41	875.14	-
S-151	222+47	54' LT	CB TC T24 F&G	884.54	-	880.54	-	-
S-152	222+47	8' RT	CB TA 4' DIA T3 F&G	885.31	879.91	879.81	-	-
S-153	222+47	42' RT	CB TA 4' DIA T24 F&G	884.78	879.50	879.40	-	-
S-154	223+88	68' RT	CB TA 4' DIA T8G	884.60	-	878.18	-	-
S-155	224+19	51' LT	CB TC T24 F&G	887.95	-	883.95	-	-
S-156	224+15	42' RT	CB TA 4' DIA T24 F&G	888.15	883.02	882.92	-	-
S-157	224+15	52' RT	MAN TA 5' DIA T1F CL	888.47	882.87	-	880.00	877.62
S-158	225+87	42' LT	CB TC T24 F&G	891.39	-	887.39	-	-
S-159	225+85	42' RT	CB TA 4' DIA T24 F&G	891.39	886.57	886.47	-	-
S-160	225+84	52' RT	MAN TA 5' DIA T1F CL	891.71	886.52	-	884.55	882.04
S-161	226+97	43' LT	CB TC T24 F&G	893.62	-	888.62	-	-
S-162	226+99	39' RT	CB TA 4' DIA T24 F&G	893.64	887.01	886.91	-	-
S-163	228+00	71' LT	INLET TA T8G	891.40	-	888.90	-	-
S-164	228+10	35' LT	CB TA 4' DIA T24 F&G	895.94	888.74	888.64	-	-
S-165	228+08	35' RT	CB TA 4' DIA T24 F&G	895.94	888.09	887.99	-	-
S-166	228+08	47' RT	MAN TA 5' DIA T1F CL	896.22	887.93	-	889.55	887.85
S-167	229+10	32' LT	CB TC T24 F&G	897.60	-	892.57	-	-
S-168	229+08	32' RT	CB TA 4' DIA T24 F&G	897.54	891.61	891.51	-	-
S-169	230+13	30' LT	CB TA 4' DIA T24 F&G	899.74	-	894.37	-	-
S-170	230+11	30' RT	CB TA 4' DIA T24 F&G	899.76	893.23	893.13	-	-
S-171	231+24	26' LT	CB TC T24 F&G	902.16	-	898.16	-	-
S-172	231+23	26' RT	CB TA 4' DIA T24 F&G	902.16	897.64	897.54	-	-
S-173	231+23	37' RT	MAN TA 5' DIA T1F CL	902.46	897.48	-	895.62	894.22
S-174	232+34	26' LT	CB TA 4' DIA T24 F&G	904.50	-	899.36	-	-
S-175	232+45	26' RT	CB TA 4' DIA T24 F&G	904.71	898.32	898.22	-	-
S-176	233+35	38' RT	MAN TA 4' DIA T1F CL	906.89	900.44	-	899.50	899.40
S-177	233+56	49' LT	CB TA 4' DIA T8G	904.30	-	901.30	902.30	-
S-178	234+00	49' RT	CB TA 4' DIA T8G	905.50	903.50 (NW)	-	-	900.63
S-179	302+66	9' RT	MAN TA 5' DIA T1F CL	878.50	-	870.97 (SW)	870.97	-
S-180	302+69	66' LT	CB TA 4' DIA T3 F&G	879.83	-	-	-	873.45
S-181	302+10	35' LT	DRYWELL 5' DIA T1F OL	870.00	-	-	-	-
S-182	301+90	15' LT	DRYWELL 5' DIA T1F OL	870.00	-	-	-	-
S-183	302+25	30' RT	DRYWELL 5' DIA T1F OL	870.00	-	-	-	-
S-184	303+62	27' RT	MAN TA 5' DIA T1F CL RP	879.55	-	-	870.88	870.88
S-185	305+59	23' RT	EX	878.63	-	-	868.83	868.83

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31 AND IL RTE 176

DRAINAGE AND UTILITY PIPE AND STRUCTURE NOTES

SCALE: NTS
DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: BDH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	94
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

IL. RTE. 31

IL. RTE. 176

1220+00

300+00

1120+00

STONE DUMPED RIP RAP, 15 SQ YD

STONE DUMPED RIP RAP, 17 SQ YD

STONE DUMPED RIP RAP, 30 SQ YD

INV. 873.00

INV. 873.00

INV. 873.00

INV. 871.00

1.5%

RIM = 870.00

RIM = 870.00

TERRA COTTA AVENUE

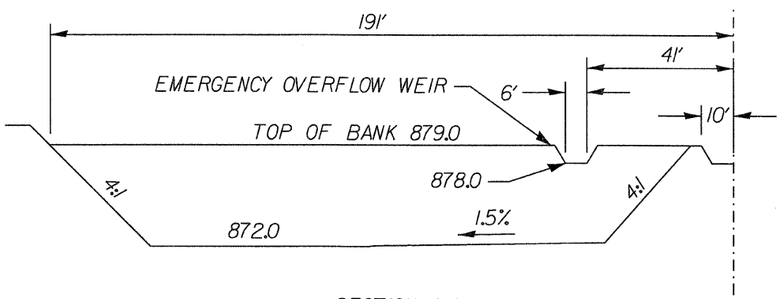
NWL=871.0
HWL=876.5
STORAGE VOLUME=2.76 Ac-Ft

22 IN. RESTRICTOR
INV=870.88

EMERGENCY OVERFLOW WEIR

STONE DUMPED RIP RAP, 14 SQ YD

Water Surface Elevation	Detention Basin Storage Volume (AC-FT)
873	0.3850
874	0.9548
875	1.6081
876	2.3482
877	3.1782
878	4.1011
879	5.1197



SECTION A-A

PLAN
SURVEYED
PLOTTED
GRADES CHECKED
ALIGNMENT CHECKED
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
ALIGNMENT CHECKED
NOTE BOOK
NO.
STRUCTURE NO(S)/FNS CHKD

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 336
IL RTE 31 AND IL RTE 176

DETENTION BASIN

0 20' 40'
1" = 20'

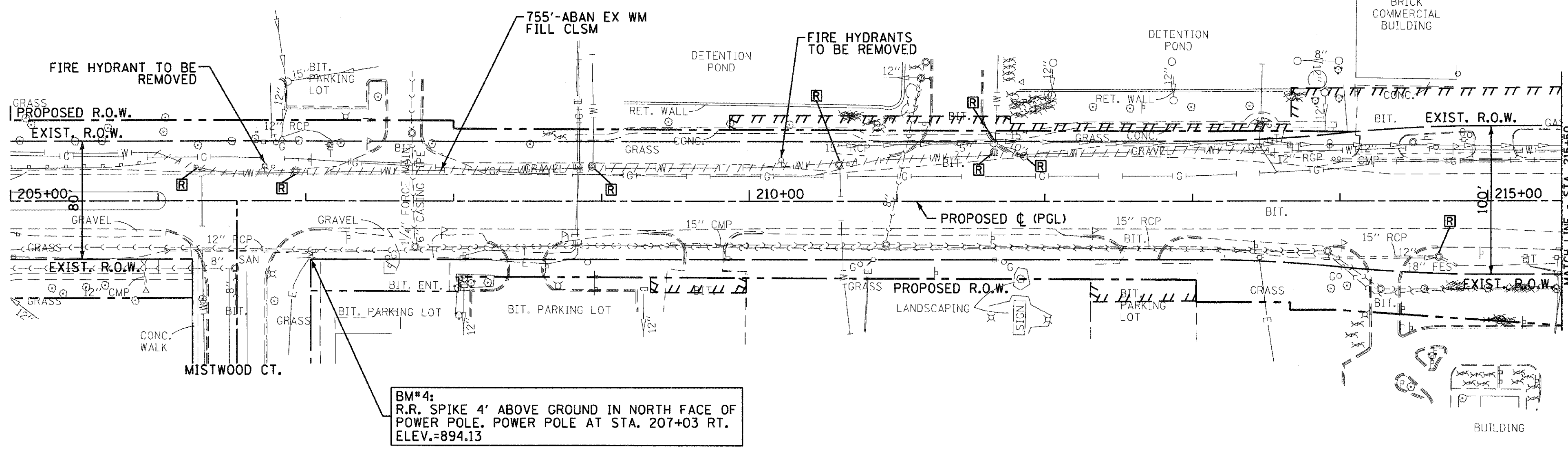
DATE: 02/10/2012
DRAWN BY: SMP
CHECKED BY: BDH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	95

STA. 205+00 TO STA. 215+50

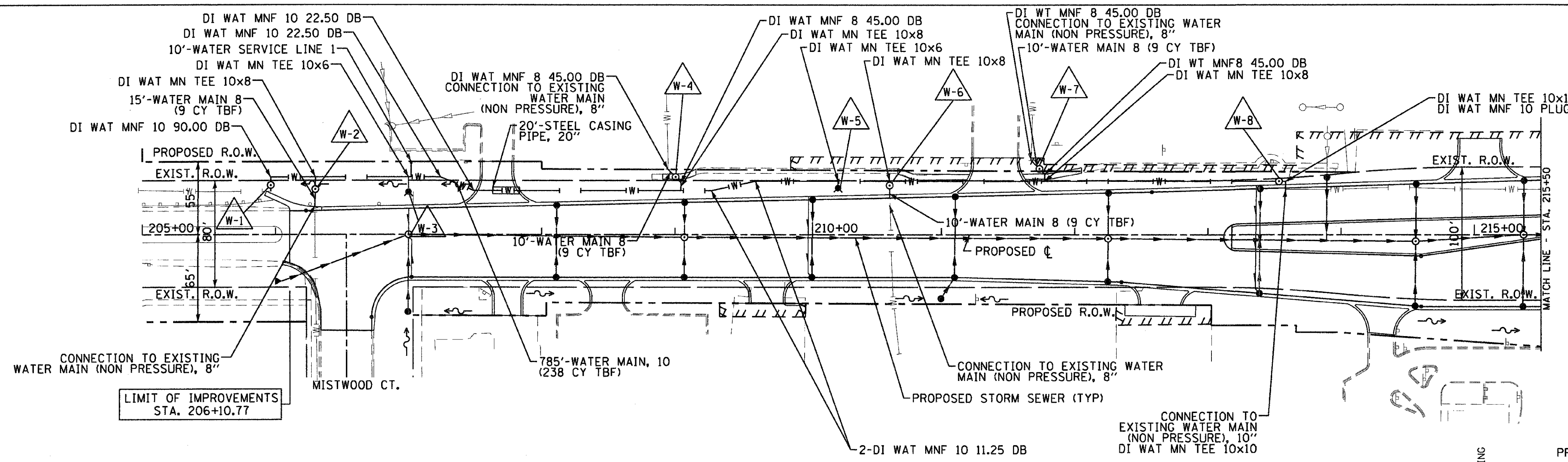
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

CONTRACT NO. 62537



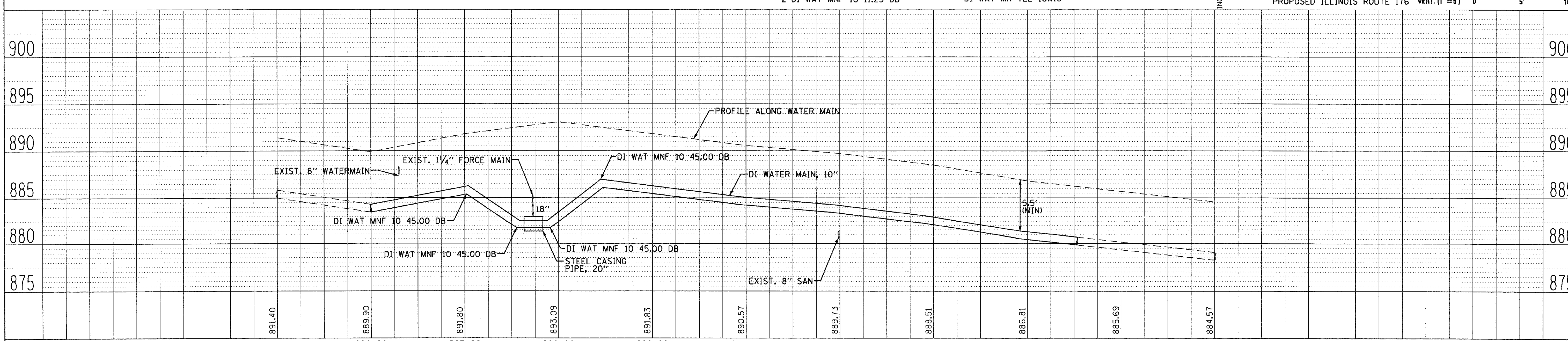
LEGEND

- ADJ STRUCTURE TO BE ADJUSTED
- C STRUCTURE TO BE CLEANED
- F STRUCTURE TO BE FILLED
- R STRUCTURE TO BE REMOVED
- REC STRUCTURE TO BE RECONSTRUCTED
- REC STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME AND LID OR GRATE
- ADJ STRUCTURE TO BE ADJUSTED WITH NEW FRAME AND LID OR GRATE
- -/-W-/- ABANDON WATER MAIN



WATER MAIN STRUCTURE TABLE

STRUCT. NO.	STATION	OFFSET	STRUCTURE TYPE	RIM
W-1	205+96	37' LT	TAP VALVE & SLEEVE 10 VV TA 5DIA T1F CL	890.50
W-2	206+30	34' LT	WATER VALVES 8 VV TA 4DIA T1F CL	893.88
W-3	207+00	32' LT	FIRE HYDRANTS	-
W-4	209+00	43' LT	WATER VALVES 8 VV TA 4DIA T1F CL	893.20
W-5	210+22	35' LT	FIRE HYDRANTS	-
W-6	210+61	37' LT	WATER VALVES 8 VV TA 4DIA T1F CL	889.78
W-7	211+73	49' LT	WATER VALVES 8 VV TA 4DIA T1F CL	889.17
W-8	213+53	40' LT	WATER VALVES 10 VV TA 5DIA T1F CL	886.05



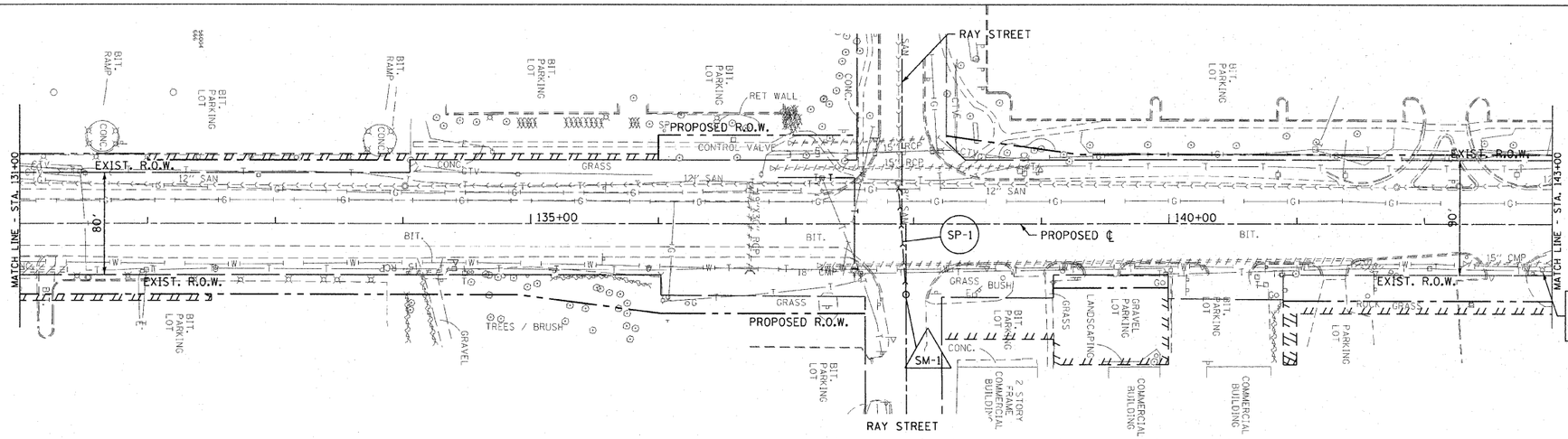
WATER MAIN PLAN IL. RTE. 176 STA. 205+00 TO STA. 215+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	96
STA. 131+00	TO STA. 143+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

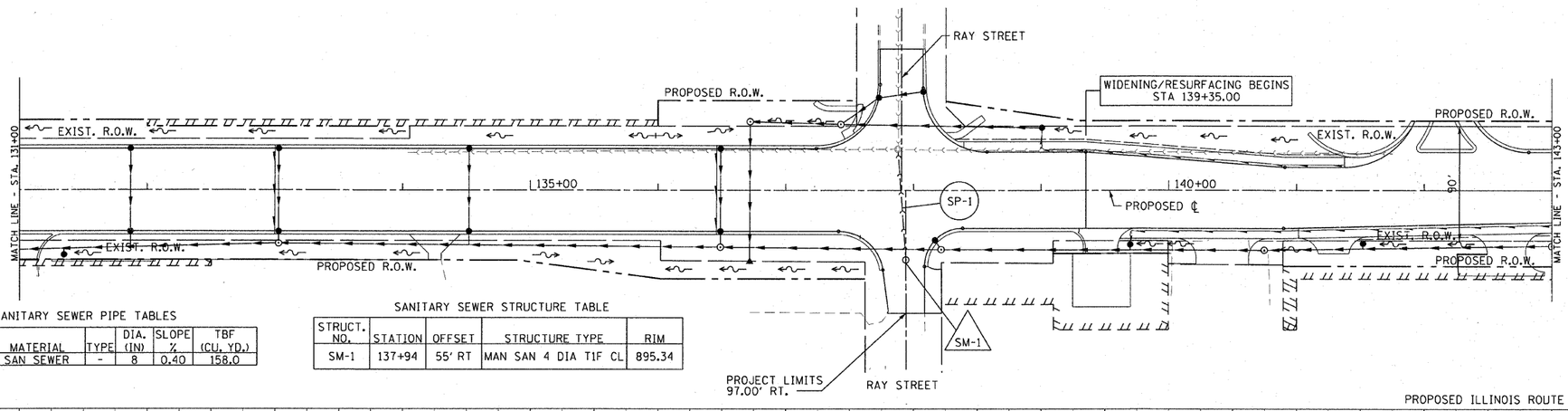
LEGEND

- ADJ STRUCTURE TO BE ADJUSTED
- C STRUCTURE TO BE CLEANED
- F STRUCTURE TO BE FILLED
- R STRUCTURE TO BE REMOVED
- REC STRUCTURE TO BE RECONSTRUCTED
- REC STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME AND LID OR GRATE
- ADJ STRUCTURE TO BE ADJUSTED WITH NEW FRAME AND LID OR GRATE
- PIPE REMOVAL
- PIPE UNDERDRAIN



BM#3:
SOUTHEAST FLANGE BOLT ON FIRE HYDRANT.
FIRE HYDRANT AT STA. 142+92 RT.
ELEV.=905.60

EXISTING ILLINOIS ROUTE 31



SANITARY SEWER PIPE TABLES

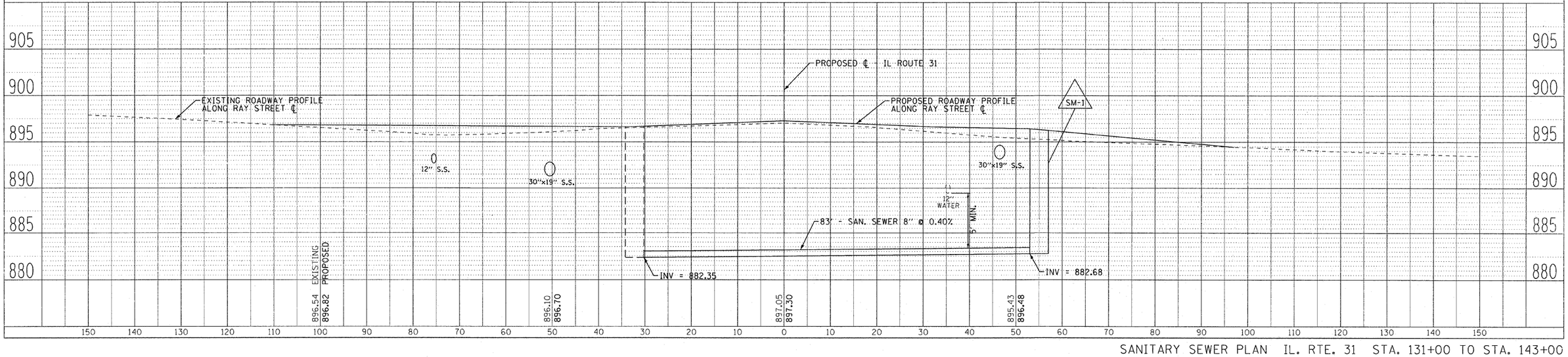
PIPE NO.	LENGTH (FOOT)	MATERIAL	TYPE	DIA. (IN)	SLOPE %	TBF (CU. YD.)
SP-1	83	SAN SEWER	-	8	0.40	158.0

SANITARY SEWER STRUCTURE TABLE

STRUCT. NO.	STATION	OFFSET	STRUCTURE TYPE	RIM
SM-1	137+94	55' RT	MAN SAN 4 DIA T1F CL	895.34

PLAN HORIZ. (1"=50') 0 50' 100'
PROFILE HORIZ. (1"=10') PROFILE VERT. (1"=5') 0 5' 10'

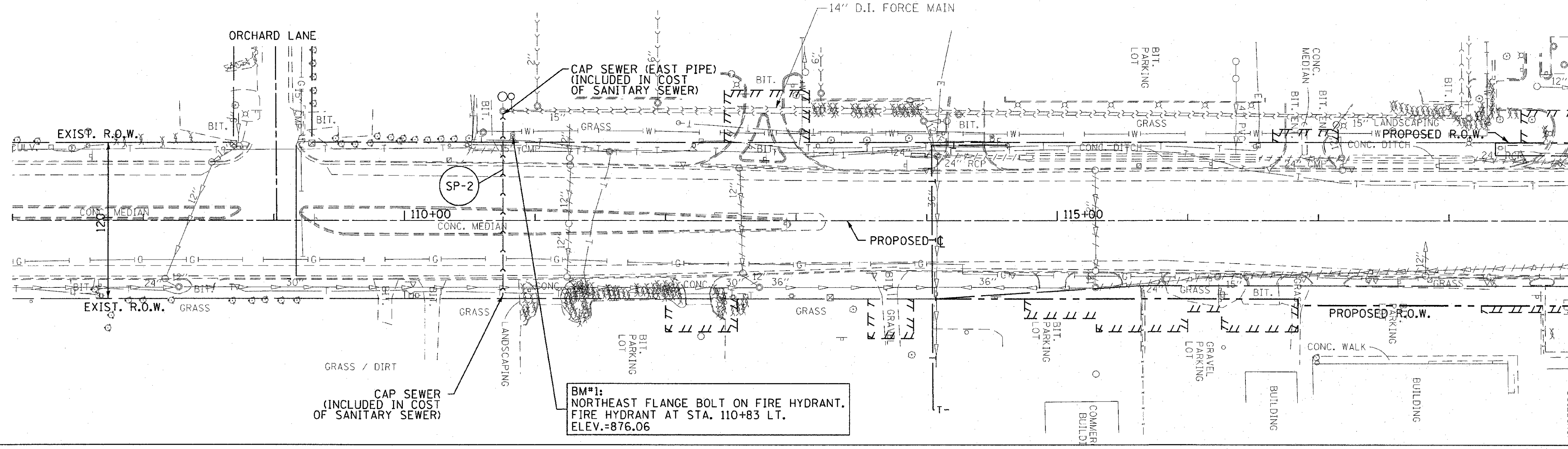
PROPOSED ILLINOIS ROUTE 31



SANITARY SEWER PLAN IL. RTE. 31 STA. 131+00 TO STA. 143+00

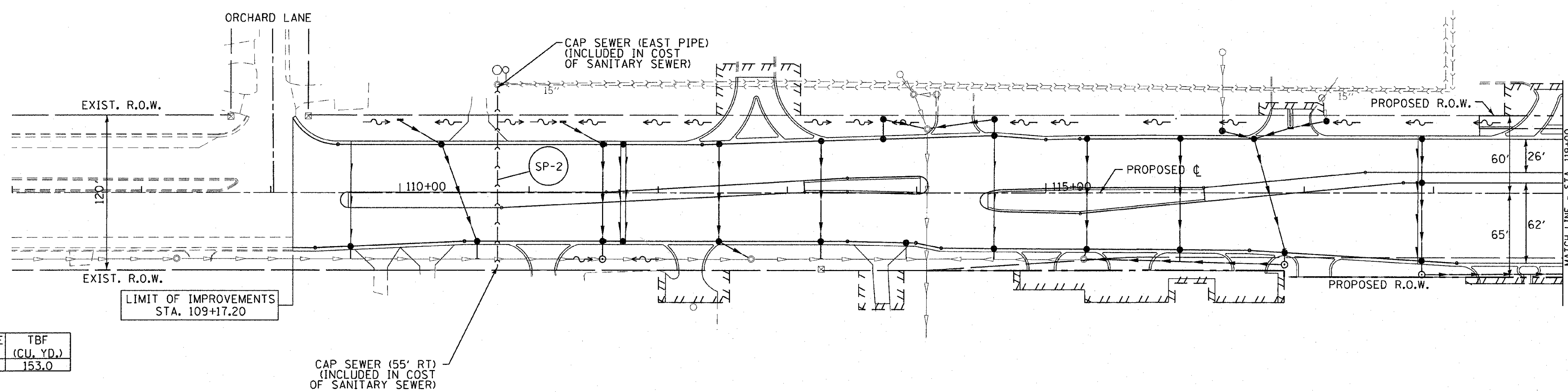
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	96A
STA. 107+00 TO STA. 119+00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537



LEGEND

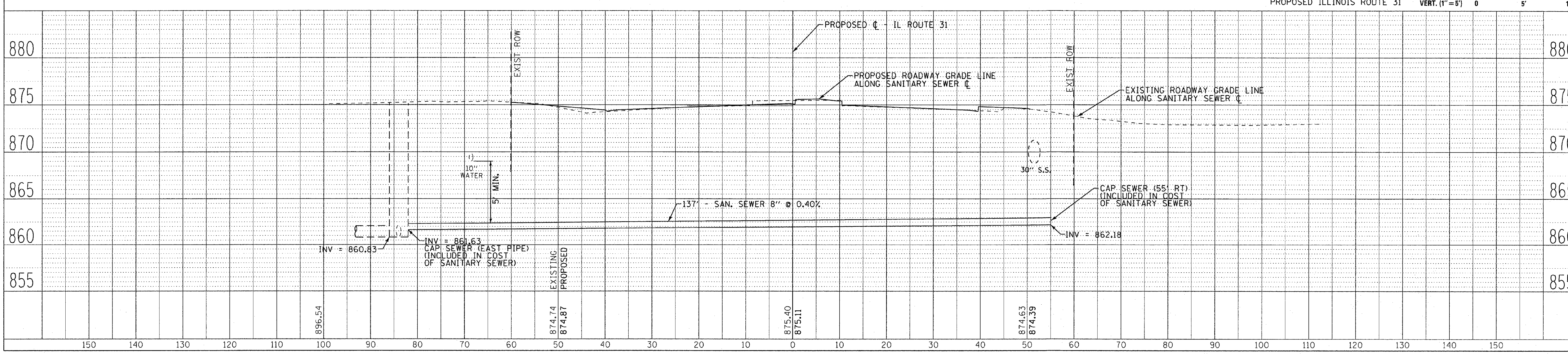
- ADJ STRUCTURE TO BE ADJUSTED
- C STRUCTURE TO BE CLEANED
- F STRUCTURE TO BE FILLED
- R STRUCTURE TO BE REMOVED
- REC STRUCTURE TO BE RECONSTRUCTED
- REC STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME AND LID OR GRATE
- ADJ STRUCTURE TO BE ADJUSTED WITH NEW FRAME AND LID OR GRATE
- PIPE REMOVAL
- PIPE UNDERDRAIN



SANITARY SEWER PIPE TABLES

PIPE NO.	LENGTH (FOOT)	MATERIAL	TYPE	DIA. (IN)	SLOPE %	TBF (CU. YD.)
SP-2	137	SAN SEWER	-	8	0.40	153.0

HORIZ. (1" = 50') 0 50' 100'
VERT. (1" = 5') 0 5' 10'



SANITARY SEWER PLAN IL. RTE. 31 STA. 107+00 TO STA. 119+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	97
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

PLAN | NOTE BOOK | NO. | BY | DATE | SURVEYED | PLOTTED | AS DRAWN | QUANTITIES CHECKED | CADD FILE NAME

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 seperate 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. This 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.

PAVING:

1. All subgrades and bases shall be proof-rolled and approved by the Engineering Division prior to base or binder installation.
2. Subgrade and proposed pavements shall be finished by the Excavation Contractor to within 0.1 foot plus or minus, of plan elevation.
3. The Paving Contractor shall ensure that the subgrade has been properly prepared and that the finished top of subgrade elevation has been graded within the tolerances allowed in these specifications. Unless the Paving Contractor advises the owner and engineer in writing prior to fine grading for base course construction, it is understood that the Contractor has approved and accepts responsibility for the subgrade.
4. For the purpose of providing handicap accessibility and complying with the American Disability Act and City Standards, curbs shall be depressed at locations where public walks or pedestrian paths intersect curb lines at street intersections and other locations as directed.
5. ½ inch thick premoulded fibre expansion joints with two (2) No. 4 plain round steel dowel bars shall be installed at designated intervals and at all P.C., P.T., curb returns and at the end of each pour. Alternate ends of the dowel bars shall be greased and fitted with metal expansion tubes.
6. ½ inch thick fibre expansion joints shall be used in every case where the sidewalk coincides with the curb and gutter. Contraction joints shall be saw cut at designated intervals in the curb. The cost of these joints shall be considered as incidental to the cost of the contract.
7. All poured in place concrete curb and gutter shall incorporate two (2) No. 4 reinforcing bars installed wherever the curb and gutter crosses utility service lines, the cost of which shall be considered incidental to the cost of concrete curb and gutter.
8. Sidewalks (where required) shall be of the thickness and dimensions as shown in the construction plans. All sidewalk concrete shall be a minimum of 6.1 bag mix (or IDOT class SI concrete) and shall develop a minimum of 3,500 psi compressive strength at twenty eight (28) days. Contraction joints shall be set at four (4) foot centers, and one-half inch (½ inch) premoulded fibre expansion joints at forty (40) foot centers and where the sidewalk meets the curb or another sidewalk, or at the end of each pour. All sidewalks constructed over utility trenches and/or abutting driveway aprons shall be reinforced with three (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

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GE-02d

UW-01

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

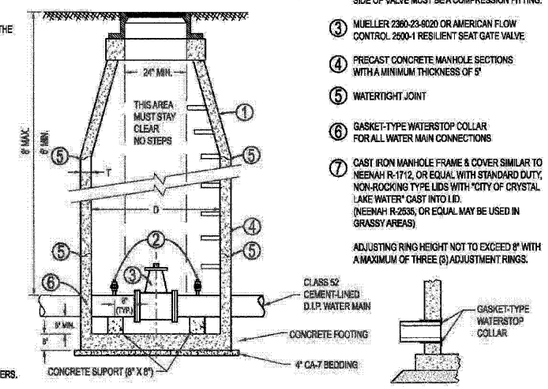
NOTE:
ALL MANHOLES MUST BE DAMP PROOF PER IDOT SPECIFICATIONS 1060 "WATER PROOFING MATERIALS"

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.



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

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.

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

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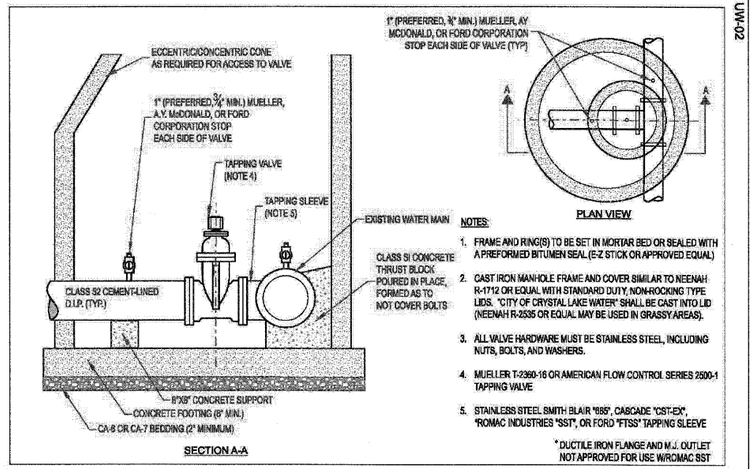
UW-01

UW-02



NOTES:

1. FRAME AND RING(S) TO BE SET IN MORTAR BED OR SEALED WITH A PREFORMED BITUMEN SEAL (E-Z STICK OR APPROVED EQUAL)
2. CAST IRON MANHOLE FRAME AND COVER SIMILAR TO NEENAH R-1712 OR EQUAL WITH STANDARD DUTY, NON-ROCKING TYPE LIDS. "CITY OF CRYSTAL LAKE WATER" SHALL BE CAST INTO LID (NEENAH R-2535 OR EQUAL MAY BE USED IN GRASSY AREAS).
3. ALL VALVE HARDWARE MUST BE STAINLESS STEEL, INCLUDING NUTS, BOLTS, AND WASHERS.
4. MUELLER T-2360-16 OR AMERICAN FLOW CONTROL SERIES 2500-1 TAPPING VALVE
5. STAINLESS STEEL SMITH BLAIR "668", CASCADE "CST-EX", "ROMAC INDUSTRIES "SST", OR FORD "FTSS" TAPPING SLEEVE

* DUCTILE IRON FLANGE AND M.J. OUTLET NOT APPROVED FOR USE W/ROMAC SST

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

Drawing Name: WATER MAIN PRESSURE CONNECTION

Drawing Number: UW-02
Date: 6/1/2007
Drawn: EM Checked: JN/LZ

CRYSTAL LAKE ILLINOIS Engineering Division

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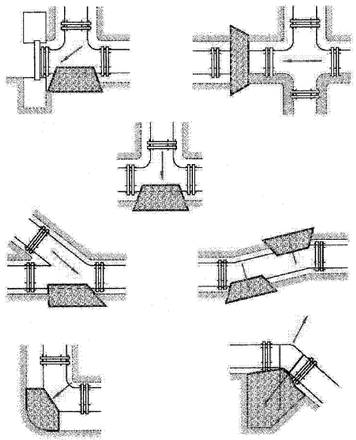
UW-02

PROFILE | SURVEYED | PLOTTED | AS DRAWN | QUANTITIES CHECKED | CADD FILE NAME | NOTE BOOK | NO. | BY | DATE | STRUCTURE NOTATIONS CHKD

UW-03



BEARING AREA (SQ. FT.)					
PIPE SIZE	TEE/PLUG	90°	45°	22 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

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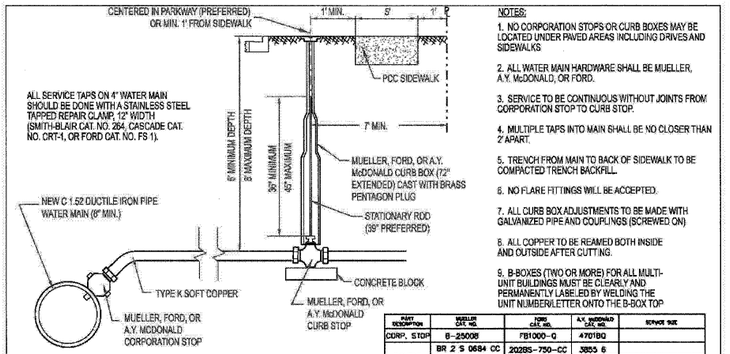
UW-03

UW-04



ALL SERVICE TAPS ON 4" WATER MAIN SHOULD BE DONE WITH A STAINLESS STEEL TAPPED REPAIR CLAMP, 12" WIDTH (SMITH-BLAIR CAT. NO. 264, CASCADE CAT. NO. CRT-1, OR FORD CAT. NO. FS 1).

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-20155	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	5680	

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

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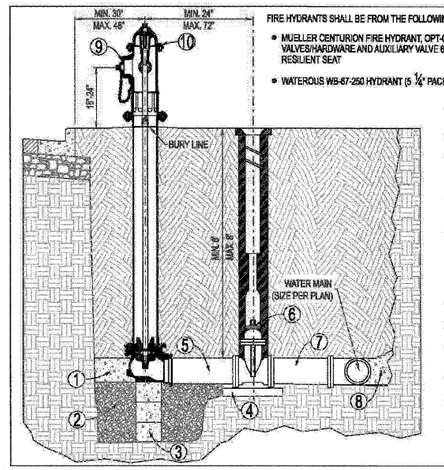
UW-04

UW-06



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

- MUELLER CENTURION FIRE HYDRANT, OPT-094 (5 ¼" 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 ¼" 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 ¾ CUBIC YARD OF ¾" 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 ½" 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

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UW-06

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31 AND IL RTE 176

WATER MAIN & SANITARY SEWER DETAILS

SCALE: NTS
DRAWN BY: BCD
DATE: 02/10/2012
CHECKED BY: BDH

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112R-N	McHENRY	266	98
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62537

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
NOTE BOOK	ELEVATIONS CHECKED		
NO.	CADD FILE NAME		

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	0.105	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

LENGTH OF PIPE SECTION IN FEET

PIPE SIZE IN INCHES	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

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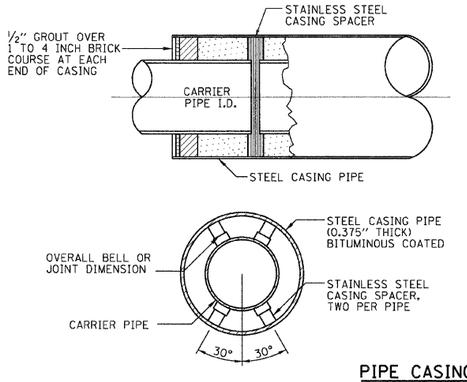


PIPE CASING DETAIL

NOTES:

1. THE WATER MAIN SHALL BE 'CENTER SPACED' AND RESTRAINED ON TOP AND BOTTOM UTILIZING TWO CASING SPACERS EQUALLY SPACED PER LENGTH OF PIPE.
2. THE SANITARY SEWER MAIN SHALL BE CLASS 52 DUCTILE IRON PIPE, 'CENTER SPACED' AND RESTAINED ON TOP AND BOTTOM UTILIZING TWO CASING SPACERS EQUALLY SPACED PER LENGTH OF PIPE.
3. CASING SPACERS ARE TO BE MANUFACTURED BY CASCADE WATERWORKS MANUFACTURING COMPANY, PIPELINE SEAL AND INSULATOR INC. OR APPROVED EQUAL.
4. CASING IS TO BE SEALED AT BOTH ENDS WITH A MASONARY CAP AND MADE WATER-TIGHT.
5. WATER MAIN JOINTS WITHIN THE CASING SHALL BE RESTRAINED UTILIZING U.S. PIPE FIELD LOCK GASKETS OR APPROVED EQUAL.

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CRAFTS CHECKED		
NOTE BOOK	ELEVATIONS NOTATIONS CHKD		
NO.	STRUCTURE NOTATIONS CHKD		

GE-02c

SANITARY SEWER:

1. Non-shear stainless steel couplings shall be used when connecting sewer pipes of dissimilar materials and pipes with no hub joints. When connecting to an existing sanitary sewer by means other than an existing wye or manhole, contractor shall use a Shewer-Tap and hub-wye or hub-tee saddle.
2. Unless an alternate method is approved, water stop gaskets shall be provided at all sanitary sewer manhole connections. Type and manufacturer to be approved by the City.
3. PVC plastic sewer pipe and fittings of sizes 4-inch through 15-inch shall conform to the latest revised specification requirements of ASTM D3034 for type PSM polyvinyl chloride (PVC) sewer pipe and fittings of minimum wall thickness SDR 35.
4. Joints shall be either the solvent weld type conforming to the latest revised specification requirements of ASTM D2564 and ASTM D2855, or elastomeric gasket type conforming to the latest revised specification requirements of ASTM D1869 and ASTM D3212.
5. A thicker walled pipe such as SDR 26 may be specified by the engineer depending on design and/or field conditions.
6. PVC plastic sewer pipe and fittings of sizes 16-inch through 36-inch shall conform to the latest revised specification requirements of ASTM F679 or polyvinyl chloride (PVC) large diameter ribbed gravity sewer pipe and fittings, with integral bell gasketed joints and elastomeric gaskets to form a watertight seal conforming to the latest revised specification requirements of ASTM F477 or ASTM D3212.
7. Pipe and fittings shall be the products of one approved manufacturer only, and there shall not be any mixing of pipe and fittings of different manufacturers.
8. The handling and installation of pipe, assembly or joints, and manhole connections shall be in accordance with the manufacturer.is recommendations.
9. Gasket-type waterstop collars consist of a neoprene collar and a stainless steel band or other approved manhole waterstop shall be installed wherever the pipe passes through the manhole walls to provide a watertight joint to prohibit infiltration into the sewer system.
10. PVC pipe shall be installed in accordance with the latest revised specification requirements of ASTM D2321 using either compacted class I or class II granular embedment materials for bedding, haunching and initial backfill of 12 inches over the top of pipe to provide the necessary support for the pipe so that the maximum deflection does not exceed five percent (5%) of the pipe.s original internal diameter.
11. The Contractor shall provide the necessary tools and equipment and perform the work necessary to test the deflection in the initial 1,200 feet of installed sewer and not less than ten percent (10%) of the remainder of the sewer project at random locations selected by the engineers no sooner than 30 days after backfilling has been completed. In the event that deflection exceeds the maximum limit of five percent (5%), the Contractor shall test all other new flexible pipe for deflection. Deflection shall be tested by use of either a mandrel or rigid ball having a diameter equal to ninety-five percent (95%) of the inside diameter of the pipe, and the test shall be performed without using mechanical pulling devices. Wherever the deflection limitation is exceeded, the contractor shall uncover the pipe, carefully replace compacted embedment and backfill material, and retest for deflection.
12. The Contractor shall subject all sanitary sewers, including service lines, to an air test. Allowable infiltration shall not exceed 100 gallons per inch diameter of pipe per mile per day. Televising of testing, cost for televising, and testing shall be the responsibility of the Contractor.
13. Cast Iron Soil Pipe: service weight cast iron soil pipe and fittings conforming C.I.S.P.I. Specification HS-67 with compression type rubber gasket joints conforming to ASTM specification C564, or other suitable materials approved by the City Engineer.

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

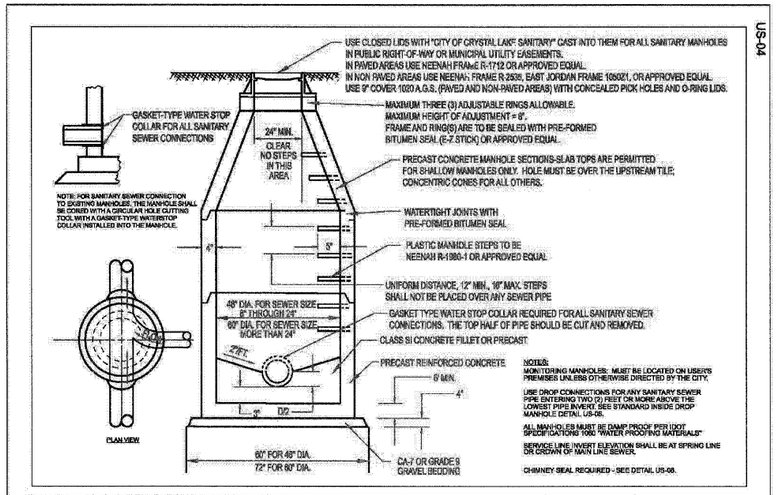
Drawing Name: STANDARD NOTES AND SPECIFICATIONS

Drawing Number: GE-02c
Date: 6/1/2007
Drawn: EM Checked: LZ

CRYSTAL LAKE ILLINOIS Engineering Division

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

US-04



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

Drawing Name: STANDARD SANITARY AND MONITORING MANHOLE

Drawing Number: US-04
Date: 11/2/2007
Drawn: EM Checked: TH

CRYSTAL LAKE ILLINOIS Engineering Division

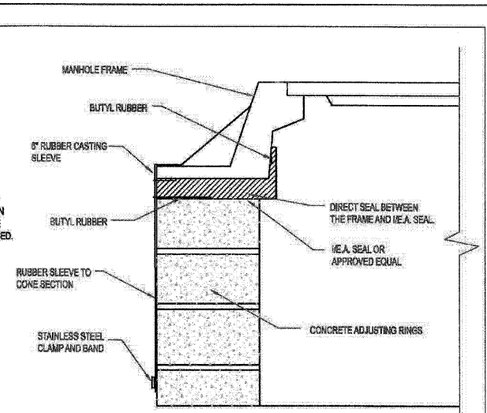
L:\ENGINEERING AND BUILDING\ENGINEERING\DETAILS AND STANDARDS\

US-08

INTERNAL / EXTERNAL CHIMNEY SEAL
MEA. SEAL

ALL SANITARY MANHOLES SHALL BE INSTALLED WITH AN INTERNAL / EXTERNAL CHIMNEY SEAL WITH A RUBBER SLEEVE TO SEAL THE OUTSIDE OF THE CHIMNEY FROM THE TOP OF THE CORBEL TO THE MANHOLE FRAME. THE SEAL SHALL BE INSTALLED PER THE INSTALLATION INSTRUCTIONS AND AS DIRECTED BY THE ENGINEER.

CHIMNEY SEAL TO BE ADAPTER INC. BRAND OR APPROVED EQUAL. THEY SHALL BE INSTALLED DURING CONSTRUCTION AND SET TO FINAL GRADE. ANY STRUCTURE THAT IS IN THE ROADWAY MUST BE RAMPED UNTIL FINAL SURFACE IS PLACED.



THE INTERNAL/EXTERNAL ADAPTER SEAL IS MANUFACTURED TO FIT ALL MANHOLE FRAMES TO ANY DIMENSIONS OF HEIGHT AND INSIDE OR OUTSIDE DIAMETERS

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

Drawing Name: INTERNAL / EXTERNAL CHIMNEY SEAL

Drawing Number: US-08
Date: 4/15/2007
Drawn: EM Checked: TH

CRYSTAL LAKE ILLINOIS Engineering Division

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

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.P. ROUTE 336
IL RTE 31 AND IL RTE 176

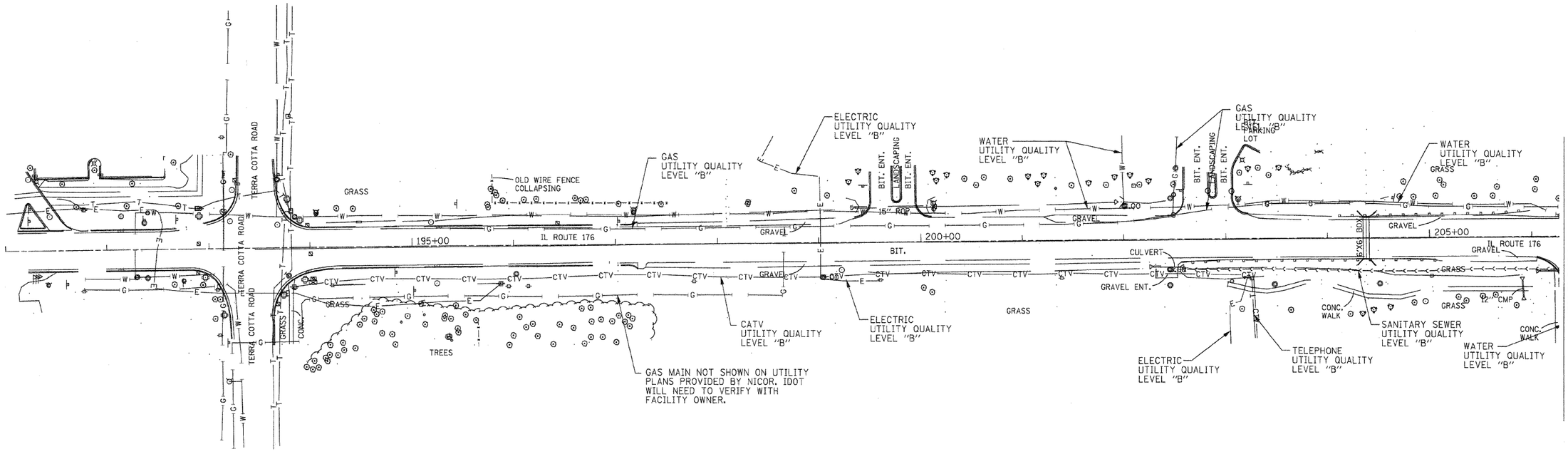
WATER MAIN & SANITARY SEWER DETAILS

SCALE: NTS
DATE: 02/10/2012

DRAWN BY: BCD
CHECKED BY: BDH

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	112-R-N	McHenry	266	99
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 62537



The AT&T locations depicted have been obtained through the application of geophysical methods to determine the existence and approximate horizontal position of these facilities. However, AT&T will not provide TBE Group, Inc. with utility records nor allow access to their field closures (pedestals/manholes etc.), to help verify the locations of their existing underground facilities. Therefore, TBE is unable to verify the completeness of the AT&T locations depicted in accordance with the CI/ASCE Standard 38-02.

TBE GROUP

TBE GROUP, INC.
CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL * PLANNING * UTILITY ENGINEERING/LOCATING

IL09500234, 269, 283
TBE SUE PAGE NO: 1 of 9
Checked by: _____

Utility Quality Level "B" : Designating
Utility Quality Level "D" : Records Research

- SANITARY SEWER
- UNKNOWN
- CTV — CABLE TV
- T — TELEPHONE
- W — WATER
- G — GAS
- FO — FIBER OPTIC
- E — ELECTRIC

Utilities shown in color on these plans as depicted in the legend have been investigated by TBE Group, Inc in accordance with SUE Industry Standards. All other information shown has been provided to TBE Group, Inc by others. TBE's SUE field investigation was performed during the period 12-26-06 through 3-28-08. Changes to utilities after these dates may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS	
NAME	DATE

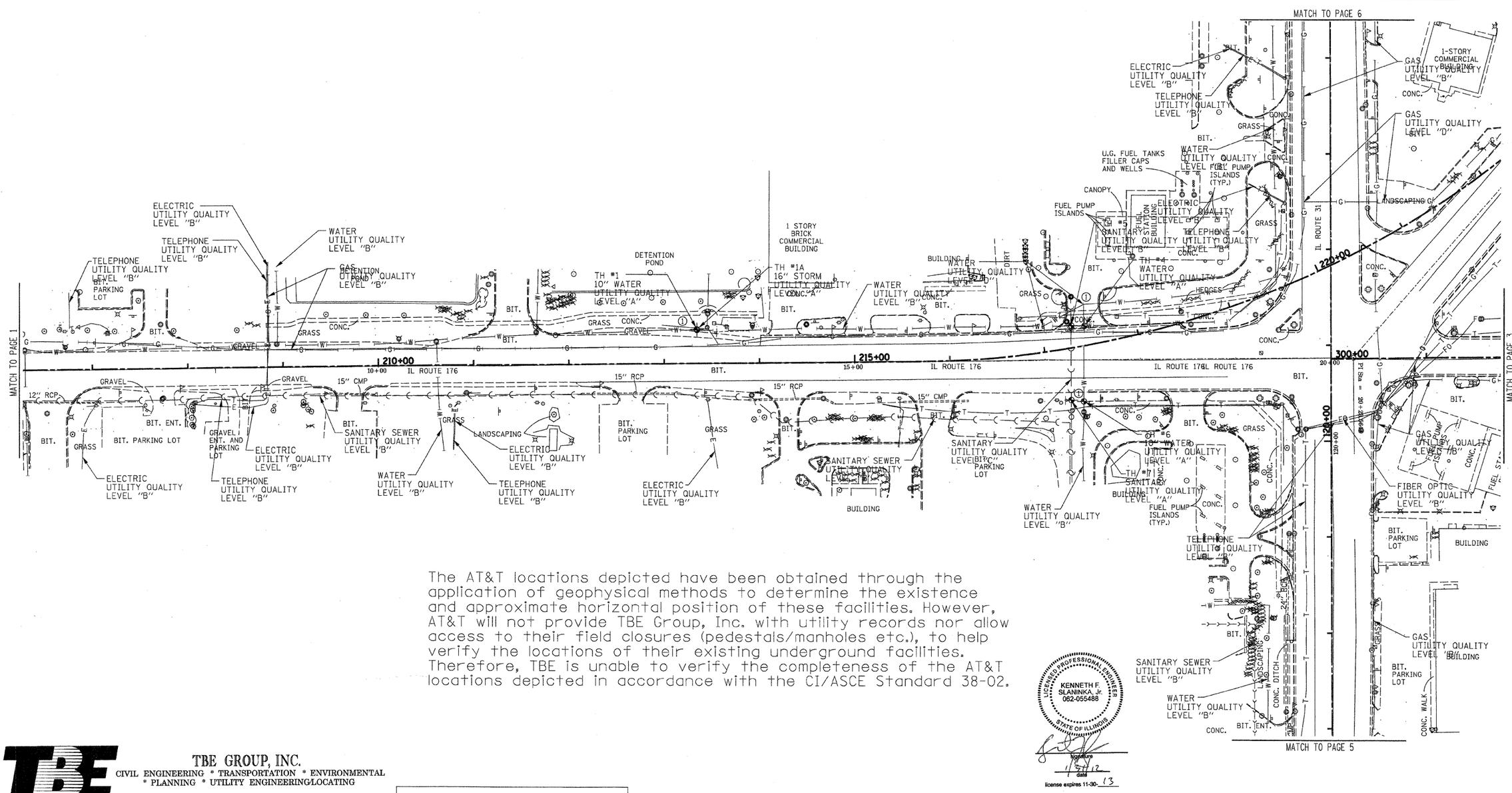
ILLINOIS DEPARTMENT OF TRANSPORTATION

SUE Investigation of Underground Utilities

IL RT. 31 at IL RT. 176 and Terra Cotta Road
Crystal Lake, IL.
McHenry County
Section No. 112-R-N
Contract No. 62537

DRAWN BY : KLC
SCALE : 1" = 50'

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	112-R-N	McHenry	266	100
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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KENNETH F. SLANINKA, Jr. 062-055488 LICENSED PROFESSIONAL ENGINEER STATE OF ILLINOIS

Signature

1/27/12

Date

license expires 11-30-13

TBE GROUP, INC.
CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL * PLANNING * UTILITY ENGINEERING/LOCATING

IL09500234, 269, 283, IL09510471
TBE SUE PAGE NO: 2 of 9
Checked by: _____

Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating / Non Visually Verified Test Hole
Utility Quality Level "C" : Records Research with Survey
Utility Quality Level "D" : Records Research

SANITARY SEWER
UNKNOWN
CTV CABLE TV
T TELEPHONE
W WATER
G GAS
FO FIBER OPTIC
E ELECTRIC
TEST HOLE

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205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS	DATE
① ADDED TH# 1-7 REVISED WATER LOCATION	1/27/12

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUE Investigation of Underground Utilities

IL RT. 31 at IL RT. 176 and Terra Cotta Road
Crystal Lake, IL.
McHenry County
Section No. 112-R-N
Contract No. 62537

DRAWN BY : KLC
SCALE : 1" = 50'