01-20-2017 LETTING ITEM 150

F. A. U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
282	10-00056-00-PK	COOK	64	1
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CMM-9003(600)	

CONTRACT #61D08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU 282 (135TH STREET) AT NEW AVENUE METRA STATION, PARKING LOT, BIKE PATH
SECTION NO.: 10-00056-00-PK
PROJECT TE-CMM-9003(600)
VILLAGE *of* ROMEOVILLE
WILL COUNTY
C-91-421-10

INDEX OF SHEETS
SEE SHEET NO. 2

HIGHWAY STANDARDS
SEE SHEET NO. 2

DESIGN DESIGNATION – ACCESS ROAD ADT 1,050 (2040)
PV=992 SU=29 MU=29

2010 ADT –	250 (SOUTH)
EXISTING SPEED LIMIT –	25 mph
POSTED SPEED LIMIT –	25 mph
DESIGN PERIOD –	30 YEARS
DESIGN SPEED LIMIT –	25 mph
STREET CLASSIFICATION –	LOCAL ROAD

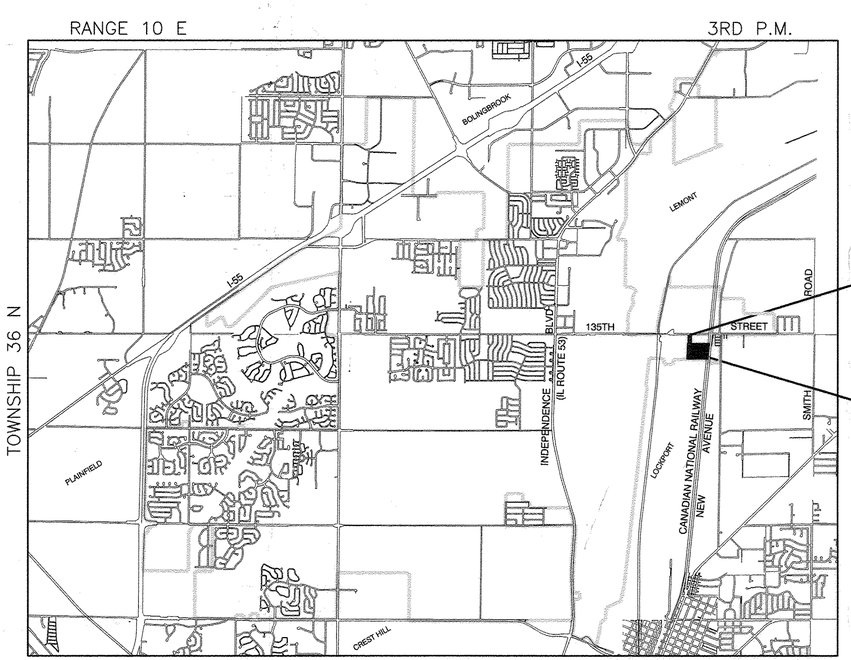
SCALES
- PLAN - 1"=50'
- PROFILE HORIZ. - 1"=50'
- PROFILE VERT. - 1"=5'
- CROSS SECTIONS - 1"=10'

0 100' 200' 300' - 1"= 100'
0 10' 20' 30' - 1"= 10'
0 50' 100' - 1"= 50'
0 50' 100' - 1"= 40'
0 50' 100' - 1"= 30'
0 50' 100' - 1"= 20'

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.

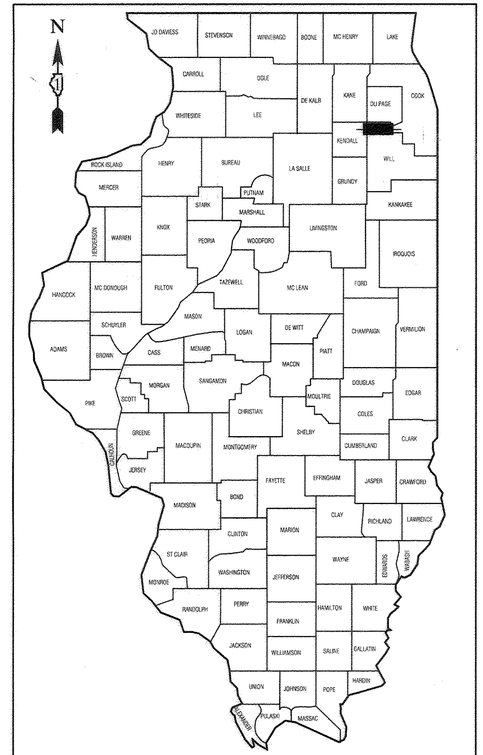
J. U. L. I. E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1 - 800 - 892 - 0123 or 811

CONTRACT NO. 61D08



LOCATION MAP

GROSS LENGTH=1,564 FEET=0.30 MILES
NET LENGTH=1,564 FEET=0.30 MILES



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Approved 08-05-2016
President, Village of Romeoville

Passed August 15, 2016
CHRISTOPHER HOLT
District 1 Engineer of Local Roads & Streets

Released for Bid Based on Limited Review August 19 2016
Region One Engineer

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PREPARED BY OR UNDER THE DIRECT SUPERVISION OF:

8-5-16

TROY A. GOLEM
62-63270
LICENSED PROFESSIONAL ENGINEER
STATE OF ILLINOIS

LICENSE EXPIRES: 11/30/17

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, PE, 847-705-4406,
CONSULTANTS: ROBINSON ENGINEERING, LTD. 708-331-6700

INDEX OF SHEETS

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-09	PERPENDICULAR CURB RAMPS
424016-03	MID BLOCK CURB RAMPS
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542311-06	TRAVERSABLE PIPE GRATE
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
602001-02	CATCH BASIN TYPE A
602011-02	CATCH BASIN TYPE C
602301-04	INLET, TYPE A
602401-03	MANHOLE, TYPE A
602601-04	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-04	FRAME AND LIDS, TYPE 1
604051-04	FRAME AND GRATE, TYPE 11
604056-04	FRAME AND GRATE, TYPE 11V
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
664001-02	CHAIN LINK FENCE
701001-02	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) TO 24" (600mm) FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM EDGE OF PAVEMENT
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS $\leq$ 40 MPH
701901-06	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTIONS DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS

GENERAL NOTES

1. ALL ROADWAY CONSTRUCTION SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED APRIL 1, 2016 BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND ALL AMENDMENTS THERETO, AND IN ACCORDANCE WITH THE LATEST EDITION OF THE SPECIFICATIONS FOR CONSTRUCTION IN THE VILLAGE OF ROMEOVILLE AND IN CASE OF CONFLICT, THE MORE STRINGENT CODE SHALL TAKE PRECEDENCE.

2. ALL STORM SEWER, SANITARY SEWER AND WATER MAIN CONSTRUCTION SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", PUBLISHED JUNE 2014, AND IN ACCORDANCE WITH THE SPECIFICATIONS FOR CONSTRUCTION IN THE VILLAGE OF ROMEOVILLE UNLESS OTHERWISE NOTED ON THE PLANS.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THESE FACILITIES. THE ENGINEER DOES NOT WARRANT THE LOCATION OF ANY EXISTING UTILITIES SHOWN ON THE PLAN. THE CONTRACTOR SHALL CALL J.U.L.I.E. AT 800–892–0123 AND THE VILLAGE OF ROMEOVILLE (815–886–1870) FOR UTILITY LOCATIONS.

4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE NATURE AND STATUS OF ALL UTILITY RELOCATION WORK PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO VERIFY THAT CONSTRUCTION OPERATIONS DO NOT INTERFERE WITH UTILITY FACILITIES AND RELOCATION WORK. THE SCHEDULE SHOULD REFLECT CONSTRUCTION SEQUENCING, WHICH COORDINATES WITH ALL UTILITY RELOCATION WORK. THE CONTRACTOR SHALL BE REQUIRED TO ADJUST THE ORDER OF WORK FROM TIME TO TIME, TO COORDINATE SAME WITH UTILITY RELOCATION WORK, AND SHALL PREPARE REVISED SCHEDULE (S) IN COMPLIANCE THEREWITH AS DIRECTED BY THE OWNER. THE OWNER AND THE ENGINEER SHALL BE NOTIFIED IN WRITING BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY OPERATION REQUIRED COOPERATION WITH OTHERS. ALL OTHER AGENCIES, UNLESS OTHERWISE NOTED, WILL BE NOTIFIED IN WRITING BY THE CONTRACTOR TEN (10) DAYS PRIOR TO THE START OF ANY SUCH OPERATION. THE UTILITY COMPANIES HAVE BEEN CONTACTED IN REFERENCE TO UTILITIES THEY OWN AND OPERATE WITHIN THE LIMITS FOR THIS PROJECT. ALL KNOWN DATA FROM THESE AGENCIES HAS BEEN INCORPORATED INTO THE PLANS. IT IS HOWEVER, THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM OR ESTABLISH THE EXISTENCE OF ALL UTILITY FACILITIES AND THEIR EXACT LOCATIONS, WHETHER CONTAINED IN THE DATA SUBMITTED BY THESE AGENCIES OR NOT, AND TO SAFELY SCHEDULE ALL UTILITY RELOCATIONS.

5. ALL CONTRACTORS SHALL KEEP ACCESS AVAILABLE AT ALL TIMES FOR ALL TYPES OF TRAFFIC AS DIRECTED BY THE ENGINEER.

6. CONTRACTOR SHALL TAKE PHOTOS AND VIDEO RECORD WORK AREA PRIOR TO CONSTRUCTION FOR THE PURPOSE OF DOCUMENTING EXISTING CONDITIONS.

7. THE CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES UNTIL THEY ARE NO LONGER NEEDED. STAKES DESTROYED OR DISTURBED BY THE CONTRACTOR PRIOR TO THEIR USE SHALL BE RESET BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

8. REMOVAL OF SPECIFIED ITEMS, INCLUDING BUT NOT LIMITED TO, PAVEMENT, SIDEWALK, CURB, CURB AND GUTTER, CULVERTS, ETC. SHALL BE DISPOSED OF OFF–SITE BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS REQUIRED FOR SUCH DISPOSAL. THE REMOVAL SHALL BE ACCOMPLISHED BY MEANS OF A SAW CUT JOINT, AT THE DIRECTION OF THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS REMOVAL ITEMS.

9. THE CONTRACTOR SHALL COLLECT AND REMOVE ALL CONSTRUCTION DEBRIS, EXCESS MATERIALS, TRASH, OIL AND GREASE RESIDUE, MACHINERY, TOOLS AND OTHER MISCELLANEOUS ITEMS WHICH WERE NOT PRESENT PRIOR TO PROJECT COMMENCEMENT AT NO ADDITIONAL EXPENSE TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS NECESSARY FOR THE HAULING AND DISPOSAL REQUIRED FOR CLEAN–UP AS DIRECTED BY THE ENGINEER OR OWNER. BURNING ON THE SITE IS NOT PERMITTED.

10. AT THE CLOSE OF EACH WORKING DAY AND AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FORM DIRT AND DEBRIS.

11. THE TRENCHES FOR PIPE INSTALLATION SHALL BE KEPT DRY AT ALL TIMES DURING PIPE PLACEMENT. APPROPRIATE FACILITIES TO MAINTAIN THE DRY TRENCH SHALL BE PROVIDED BY THE CONTRACTOR AND THE COST OF SUCH SHALL BE INCLUDED IN THE UNIT PRICE BID AND APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR DEWATERING DURING CONSTRUCTION UNLESS APPROVED IN WRITING BY THE OWNER.

12. TRENCH BACKFILL WILL BE REQUIRED TO THE FULL DEPTH ABOVE STORM SEWERS AND CULVERTS WITHIN TWO (2) FEET OF PROPOSED OR EXISTING PAVEMENT.

13. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

14. THE THICKNESS OF HMA MIXTURE STATED IN THE SPECIFICATIONS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS FROM THE NOMINAL THICKNESS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA SURFACE IS PLACED.

15. THE CONTRACTOR SHALL CONTACT ROBINSON ENGINEERING (708)331–6700 AND THE VILLAGE OF ROMEOVILLE (815) 886–1870 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

PLATFORM AREA DIVISION OF WORK

PRIME CONTRACTOR

- COORDINATION WITH METRA FORCES REQUIRED FOR PLATFORM WORK
- GRADE AND PREPARE SUBGRADE PER PLANS AND DETAILS
- FURNISH AND INSTALL 12.5 INCH AGGREGATE BASE (PLATFORMS)
- FURNISH AND INSTALL GEOTECHNICAL FILTER FABRIC (PLATFORMS)
- FURNISH AND INSTALL PRIME COAT AND HOT–MIX ASPHALT (PLATFORMS)
- FURNISH AND INSTALL CONCRETE FOUNDATIONS FOR PLATFORM LIGHTING
- PROVIDE MATERIALS ONLY FOR PLATFORM AREA LIGHT POLES PER THE SPECIFICATIONS
- PROVIDE MATERIALS ONLY FOR PLATFORM AND STATION SIGNAGE
- FURNISH MATERIALS AND CONSTRUCT PROPOSED WARMING SHELTER BUILDING
- FURNISH AND INSTALL CONCRETE SIDEWALKS, DRAINAGE IMPROVEMENTS, AND FENCING
- FURNISH AND INSTALL EROSION CONTROL AND RESTORATION ITEMS

METRA FORCES

- FURNISH AND INSTALL STRUCTURAL REINFORCED POLYMER COMPOSITE DECK PANELS WITH INTEGRAL DETECTABLE WARNINGS, CRUSHED LIMESTONE SCREENING, TIMBERS, HEADERS, HARDWARE, STAKES, DOWELS, AND ALL OTHER PLATFORM WORK NOT LISTED UNDER THE VILLAGE CONTRACTOR DIVISION OF WORK.
- INSTALL PLATFORM LIGHTING (MATERIALS PROVIDED BY VILLAGE CONTRACTOR)
- INSTALL SIGNAGE (MATERIALS PROVIDED BY VILLAGE CONTRACTOR)

CANADIAN NATIONAL RAILWAY (CN) FORCES

- FURNISH AND INSTALL AT–GRADE PEDESTRIAN CROSSING

EARTHWORK NOTES

1. GENERAL

   A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE SOIL AND GROUNDWATER CONDITIONS AT THE SITE.

   B. THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS ARE FINISHED GRADE AND SUBGRADE ELEVATIONS (AS NOTED) AND THAT PAVEMENT THICKNESS, TOPSOIL, ETC. MUST BE ACCOUNTED FOR.

   C. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE DURING CONSTRUCTION, AND PREVENT STORMWATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS. THE FAILURE TO PROVIDE PROPER DRAINAGE WILL NEGATE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, SEDIMENTATION AND TRAFFIC.

   D. PLANS FOR THE SITE DEWATERING, IF EMPLOYED, SHALL BE SUBMITTED AND APPROVED PRIOR TO IMPLEMENTATION. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR DEWATERING DURING CONSTRUCTION.

   E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE "SOIL EROSION AND SEDIMENTATION CONTROL MEASURES". THE INITIAL ESTABLISHMENT OF EROSION CONTROL PROCEDURES AND THE PLACEMENT OF SILT AND FILTER FENCING, ETC. TO PROTECT ADJACENT PROPERTY, WETLANDS, ETC. SHALL OCCUR BEFORE GRADING BEGINS.

   F. ALL STORM INLETS SHALL BE PROTECTED BY INLET FILTERS. PLACEMENTS AND MAINTENANCE OR SILT BARRIER SHALL BE AS DIRECTED BY THE ENGINEER, BASED ON ACTUAL GRADING. GRADE THE AREA WITHIN FOUR (4) FEET AROUND STRUCTURES ONE (1) FOOT BELOW RIM TO SERVE AS A SEDIMENTATION BASIN DURING CONSTRUCTION.

   G. FINAL LOCATION OF SILT FENCE SHALL BE ADJUSTED BASED ON ACTUAL SITE GRADING CONDITIONS. ADDITIONAL MEASURES SHALL BE ADDED AS DIRECTED BY THE ENGINEER.

   H. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESEEDED AS SOON AS PRACTICAL.

STORM SEWER NOTES

1. STORM SEWER PIPE: ALL STORM SEWER PIPE SHALL BE RCP.

2. BEDDING: ALL STORM SEWERS SHALL BE INSTALLED ON A TYPE B GRANULAR BEDDING, ¼" TO 1" IN SIZE (CA–7) WITH A MINIMUM THICKNESS EQUAL TO ¼ THE OUTSIDE DIAMETER OF THE SEWER PIPE BUT NOT LESS THAT 4". BLOCKING OF ANY KIND FOR GRADE IS NOT PERMITTED. THE BEDDING MATERIALS SHALL BE COMPACTED TO 90% OF MODIFIED PROCTOR DENSITY. BEDDING SHALL EXTEND TO THE SPRINGLINE OF THE PIPE.

3. COVER: THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE (1') FOOT OF COVER OVER THE TOP OF SHALLOW PIPES AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL MOUND OVER ANY PIPES WHICH HAVE LESS THAN ONE (1') FOOT OF COVER DURING CONSTRUCTION UNTIL THE AREA IS FINAL GRADED OR PAVED.

4. ALL TRENCHES BENEATH PROPOSED OR EXISTING UTILITIES, PAVEMENTS, ROADWAYS, SIDEWALKS, AND FOR A DISTANCE OF TWO (2') FEET ON EITHER SIDE OF SAME, AND/OR WHERE SHOWN ON THE PLANS, SHALL BE BACKFILLED WITH SELECT GRANULAR BACKFILL, CA–7, AND THOROUGHLY MECHANICALLY COMPACTED IN 9" THICK (LOOSE MEASUREMENT) LAYERS. JETTING WITH WATER IS NOT PERMITTED. TRENCH BACKFILL SHALL BE MEASURED ACCORDING TO SECTION 208.03 OF THE STANDARD SPECIFICATIONS.

5. ON ALL IMPROVEMENTS THE FRAMES AND LIDS OF EXISTING CATCH BASINS, INLETS, MANHOLES AND VALVE VAULTS WHICH ARE TO BE ABANDONED DUE TO CONSTRUCTION OF THIS IMPROVEMENT ARE TO REMAIN THE PROPERTY OF THE VILLAGE OF ROMEOVILLE AND BE SALVAGED. THE OWNER SHALL BE NOTIFIED AS TO AVAILABILITY FOR PICK–UP.

6. THE TOP OF ALL STRUCTURES SHALL BE FLUSH WITH THE ADJACENT SURFACE OR AT THE INDICATED ELEVATIONS SHOWN ON THE PLANS.

7. FRAME ELEVATIONS ARE GIVEN ONLY TO ASSIST IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF THE STRUCTURE COST.

RAILROAD COORDINATION

IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE WITH THE CANADIAN NATIONAL (CN) RAILWAY WHENEVER CONSTRUCTION ACTIVITY IS WITHIN 25 FEET OF THE RAILROAD ROW. THE CONTRACTOR SHALL RETAIN FLAGMEN EMPLOYED AND DESIGNATED BY THE CANADIAN NATIONAL (CN) RAILWAY TO MONITOR ON–COMING TRAIN TRAFFIC, AND ADVISE CONTRACTOR PERSONNEL WHEN ACTIVITY ON OR NEAR THE RAILROAD RIGHT–OF–WAY MAY PROCEED. THIS ITEM WILL BE PAID FOR ACCORDING TO ARTICLE 107.12 AND WILL BE REIMURSED ACCORDING TO ARTICLE 109.05.

FILE NAME = 07552_02-INDX-01 - IDOT P01	USER NAME =	DESIGNED — TAG	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROMEOVILLE METRA LOT PROPOSED ACCESS ROAD INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED — PKB	REVISED —			282	10-00056-00-PK	WILL	64	2
	PLOT SCALE =	DRAWN — RG	REVISED —					CONTRACT NO. 61D08		
	PLOT DATE = 10-10-16	CHECKED — AG	REVISED —		SCALE: SHEET NO. 2 OF 64 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

SUMMARY OF QUANTITIES

S.I.	CODE NO.	PAY ITEM	UNIT	TOTAL QUAN	CONSTRUCTION TYPE CODE: ROADWAY 0001 CMAQ	SAFETY 0028 ITEP	TRAINEES 0042 CMAQ	OTHFR 0021 CMAQ
	20100500	TREE REMOVAL, ACRES	ACRE	0.25	0.25			
	20200100	EARTH EXCAVATION	CU YD	14235	14235			
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	250	250			
	20200200	ROCK EXCAVATION	CU YD	500	500			
	20800150	TRENCH BACKFILL	CU YD	1347	1347			
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	750	750			
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	20170	20170			
☆	25000210	SEEDING, CLASS 2A	ACRE	3	3			
☆	25000310	SEEDING, CLASS 4	ACRE	0.38	0.38			
☆	25000314	SEEDING, CLASS 4B	ACRE	0.18	0.18			
☆	25000324	SEEDING, CLASS 5B	ACRE	0.65	0.65			
☆	25000350	SEEDING, CLASS 7	ACRE	0.60	0.60			
☆	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	380	380			
☆	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	380	380			
☆	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	380	380			
☆	25100630	EROSION CONTROL BLANKET	SQ YD	20170	20170			
	28000305	TEMPORARY DITCH CHECKS	FOOT	125	125			
	28000400	PERIMETER EROSION BARRIER	FOOT	5095	5095			
	28000500	INLET AND PIPE PROTECTION	EACH	8	8			
	28000510	INLET FILTERS	EACH	49	49			
	28100101	STONE RIPRAP, CLASS A1	SQ YD	80	80			
	28100105	STONE RIPRAP, CLASS A3	SQ YD	140	140			
	28100107	STONE RIPRAP, CLASS A4	SQ YD	80	80			
	28200200	FILTER FABRIC	SQ YD	1240				1240
	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	250	250			

☆ – INDICATES SPECIALTY ITEMS

SUMMARY OF QUANTITIES

S.I.	CODE NO.	PAY ITEM	UNIT	TOTAL QUAN	CONSTRUCTION TYPE CODE: ROADWAY 0001 CMAQ	SAFETY 0028 ITEP	TRAINEES 0042 CMAQ	OTHER 0021 CMAQ
	30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	7900	7900			
	35101400	AGGREGATE BASE COURSE, TYPE B	TON	650				650
	35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	1215	1215			
	35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	2200	2200			
	35102200	AGGREGATE BASE COURSE, TYPE B 10"	SQ YD	5200	5200			
	40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	130	130			
	40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	100	100			
	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	2635	2635			
	40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	1515	1371			144
	40700100	BITUMINOUS MATERIALS (TACK COAT)	POUND	4100	4100			
	40800025	BITUMINOUS MATERIALS (PRIME COAT)	POUND	17615	15755			1860
	42000301	PORTLAND CEMENT CONCRETE PAVEMENT 8" (JOINTED)	SQ YD	195	195			
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	9190		9190		
	42400800	DETECTABLE WARNINGS	SQ FT	188		188		
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	35	35			
	44000600	SIDEWALK REMOVAL	SQ FT	1826	1826			
	50105220	PIPE CULVERT REMOVAL	FOOT	42	42			
☆	50901720	BICYCLE RAILING	FOOT	10		10		
	54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	8	8			
	54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1	1			
	54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	1	1			
	542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	165	165			
	542A0253	PIPE CULVERTS, CLASS A, TYPE 1 48"	FOOT	172	172			
	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	645	645			
	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	168	168			

☆ – INDICATES SPECIALTY ITEMS

FILE NAME = 07552_02-QUAN-01 - Q01

USER NAME =	DESIGNED – TAG	REVISED –	
	CHECKED – PKB	REVISED –	
PLOT SCALE =	DRAWN – RG	REVISED –	
PLOT DATE = 10-10-16	CHECKED – AG	REVISED –	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROMEOVILLE METRA LOT
PROPOSED ACCESS ROAD
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 3 OF 64 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	3
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

SUMMARY OF QUANTITIES

S.I.	CODE NO.	PAY ITEM	UNIT	TOTAL QUAN	CONSTRUCTION TYPE CODE ROADWAY 0001 CMAQ	SAFETY 0028 ITEP	TRAINEES 0042 CMAQ	OTHER 0021 CMAQ
	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	62	62			
	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	1027	1027			
	550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	362	362			
	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	500	500			
	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	339	339			
	550A0430	STORM SEWERS, CLASS A, TYPE 2 30"	FOOT	329	329			
	55100500	STORM SEWER REMOVAL 12"	FOOT	10	10			
	60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	6	6			
	60108200	PIPE UNDERDRAINS 6" (SPECIAL)	FOOT	142	142			
	60108206	PIPE UNDERDRAINS, TYPE 2, 6"	FOOT	970	970			
	60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	2	2			
	60200205	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4	4			
	60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	EACH	10	10			
	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	EACH	14	14			
	60203905	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4	4			
	60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	1	1			
	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	7	7			
	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1			
	60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	3	3			
	60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	4	4			
	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	EACH	13	13			
	60250200	CATCH BASINS TO BE ADJUSTED	EACH	1	1			
	60255500	MANHOLES TO BE ADJUSTED	EACH	1	1			
	60260100	INLETS TO BE ADJUSTED	EACH	1	1			
	60500050	REMOVING CATCH BASINS	EACH	1	1			

☆ – INDICATES SPECIALTY ITEMS

SUMMARY OF QUANTITIES

S.I.	CODE NO.	PAY ITEM	UNIT	TOTAL QUAN	CONSTRUCTION TYPE CODE ROADWAY 0001 CMAQ	SAFETY 0028 ITEP	TRAINEES 0042 CMAQ	OTHER 0021 CMAQ
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	6025	6025			
☆	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	100	100			
☆	66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1			
☆	66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2			
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8			
	67100100	MOBILIZATION	L SUM	1	1			
☆	72000100	SIGN PANEL - TYPE 1	SQ FT	72		72		
☆	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	315		315		
☆	72900200	METAL POST - TYPE B	FOOT	272		272		
☆	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	150		150		
☆	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3445		3445		
☆	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	3025		3025		
☆	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	680		680		
☆	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	26		26		
☆	78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	195		195		
☆	80400100	ELECTRIC SERVICE INSTALLATION	EACH	3		3		
☆	80400200	ELECTRIC UTILITY SERVICE CONNECTION	LSUM	1		1		
☆	81028170	UNDERGROUND CONDUIT, GALVANIZED STEEL, 1" DIA.	FOOT	1250		1250		
☆	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2"DIA.	FOOT	570		570		
☆	81028320	UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	1455		1455		
☆	81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	315		315		
☆	81400100	HANDHOLE	EACH	2		2		
☆	81603090	UNIT DUCT, 600V, 3-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	3200		3200		
☆	81702130	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	4320		4320		
☆	81702410	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 4/0	FOOT	160		160		

☆ – INDICATES SPECIALTY ITEMS

FILE NAME = 07552_02-QUAN-01 - Q02

USER NAME =	DESIGNED — TAG	REVISED —	
	CHECKED — PKB	REVISED —	
PLOT SCALE =	DRAWN — RG	REVISED —	
PLOT DATE = 10-10-16	CHECKED — AG	REVISED —	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROMEOVILLE METRA LOT
PROPOSED ACCESS ROAD
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 4 OF 64 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	4
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

SUMMARY OF QUANTITIES

S.I.	CODE NO.	PAY ITEM	UNIT	TOTAL QUAN	CONSTRUCTION TYPE CODE ROADWAY 0001 CMAQ	SAFETY 0028 ITEP	TRAINEES 0042 CMAQ	OTHER 0021 CMAQ
☆	81702440	ELECTRIC CABLE IN CONDUIT, 600V (XLP–TYPE USE) 3–1/C NO. 1/0	FOOT	300		300		
☆	82500350	LIGHTING CONTROLLER, BASE MOUNTED, 240VOLT, 100AMP	EACH	2		2		
☆	83008128	LIGHT POLE, ALUMINUM, 40 FT. M.H., 2–8 FT. MAST ARMS	EACH	4		4		
☆	83008300	LIGHT POLE, ALUMINUM, 40 FT. M.H., 8 FT. MAST ARM	EACH	6		6		
☆	83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	229		229		
☆	Z0003850	BENCHES	EACH	6				6
	Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	1226				1226
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1				1
	Z0055905	TEMPORARY CONSTRUCTION FENCE	FOOT	500				500
	Z0076600	TRAINEES	HOUR	500			500	
	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500			500	
	X0322924	RETAINING WALL REMOVAL	SQ FT	10	10			
	X0323265	REMOVE EXISTING RIPRAP	SQ YD	55	55			
	X0323378	CONCRETE PARKING BLOCKS	EACH	7	7			
	X0323415	SITE CLEAN–UP	L SUM	1	1			
☆	X0327394	HEATING AND VENTILATION WORK	L SUM	1				1
☆	X0327880	WAYFINDING SIGN, SPECIAL	L SUM	1		1		
☆	X0350805	FOLD DOWN BOLLARDS	EACH	2		2		
	X5428848	CAST–IN–PLACE REINFORCED CONCRETE END SECTIONS 48" (SPECIAL)	EACH	2	2			
☆	X6640308	CHAIN LINK GATES (SPECIAL)	EACH	1	1			
☆	X6640550	CHAIN LINK FENCE, 4' (SPECIAL)	FOOT	956	956			
☆	X6640570	CHAIN LINK FENCE, 8' (SPECIAL)	FOOT	2847	2847			
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1			
☆	X8300001	LIGHT POLE, SPECIAL	EACH	4		4		
☆	XX000959	TRASH RECEPTACLES	EACH	2				2

☆ – INDICATES SPECIALTY ITEMS

SUMMARY OF QUANTITIES

S.I.	CODE NO.	PAY ITEM	UNIT	TOTAL QUAN	CONSTRUCTION TYPE CODE ROADWAY 0001 CMAQ	SAFETY 0028 ITEP	TRAINEES 0042 CMAQ	OTHER 0021 CMAQ
☆	XX007056	BUILDING	LSUM	1				1
☆	XX007109	LIGHT FIXTURE TYPE A	EACH	10		10		
☆	XX007112	LIGHT FIXTURE TYPE B	EACH	4		4		
☆	XX008332	FAIR COLLECTION MACHINE SHELTER	L SUM	1	1			
☆	XX009020	LUMINAIRE, LED, TYPE 3, SPECIAL	EACH	12		12		
☆	XX009021	LUMINAIRE, LED, TYPE 4, SPECIAL	EACH	14		14		
☆	XX009022	LUMINAIRE, LED, TYPE 5, SPECIAL	EACH	6		6		
☆	XX009156	OVERHEAD PARKING NUMBERING	L SUM	1	1			

☆ – INDICATES SPECIALTY ITEMS

FILE NAME = 07552_02-QUAN-01 - Q03

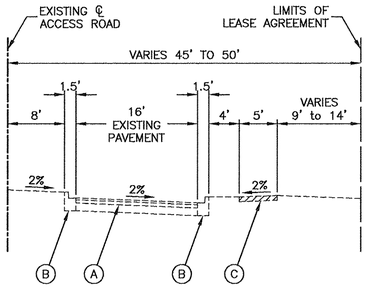
USER NAME =		DESIGNED — TAG	REVISED —
		CHECKED — PKB	REVISED —
PLOT SCALE =		DRAWN — RG	REVISED —
PLOT DATE =	10-10-16	CHECKED — AG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROMEOVILLE METRA LOT
PROPOSED ACCESS ROAD
SUMMARY OF QUANTITIES

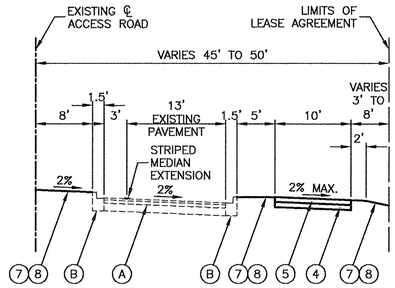
SCALE: NONE | SHEET NO. 5 OF 64 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	5
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		



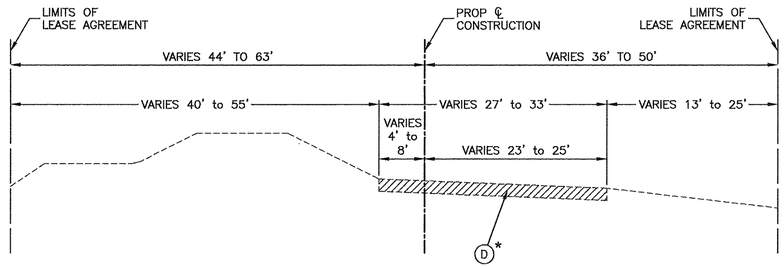
EXISTING TYPICAL SECTION

STA 50+43.09 TO STA 54+35.26, ACCESS ROAD



PROPOSED TYPICAL SECTION

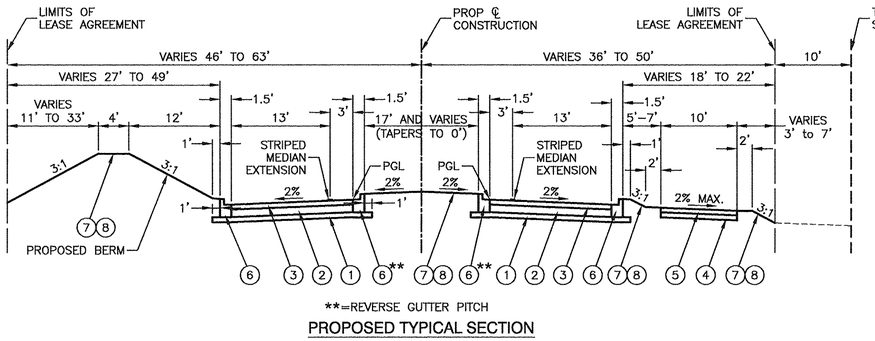
STA 50+43.09 TO STA 54+35.26, ACCESS ROAD



EXISTING TYPICAL SECTION

STA 54+60.66 TO STA 70+47.03, ACCESS ROAD

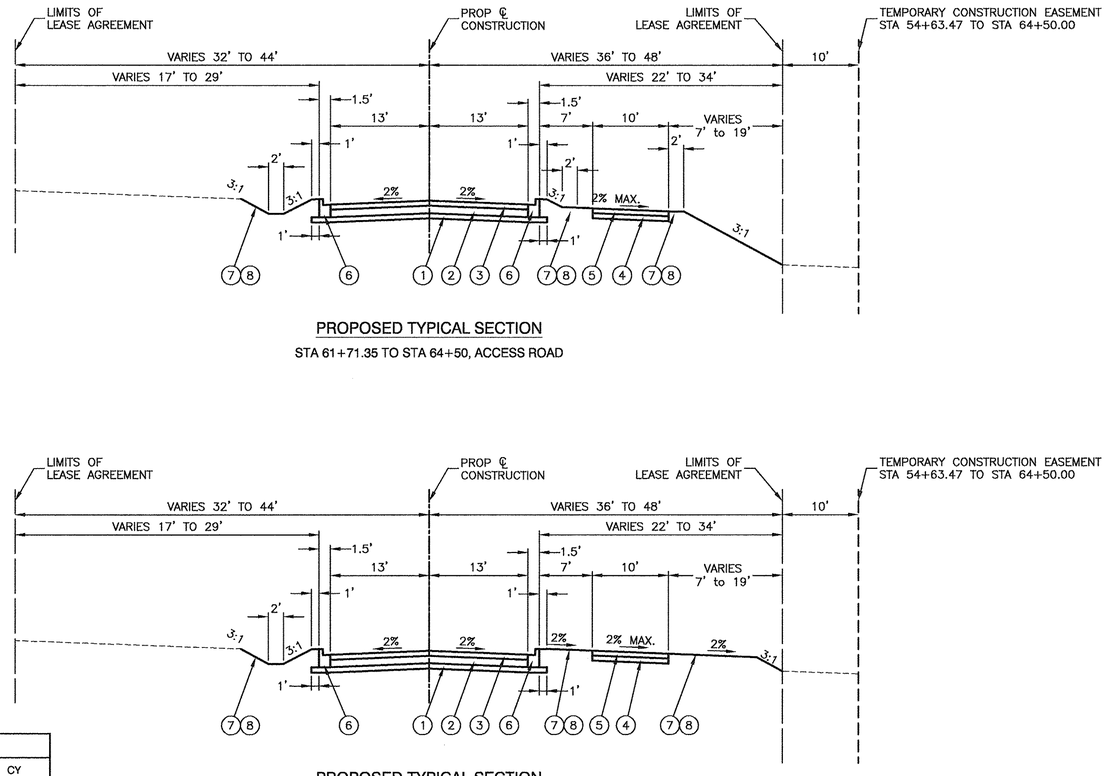
* EXISTING STONE ROAD - FROM STA 54+60.66 TO STA 59+19.48
PAST STA 59+19.48 THE LAND IS UNDISTURBED



**=REVERSE GUTTER PITCH

PROPOSED TYPICAL SECTION

STA 54+60.66 TO STA 61+71.35, ACCESS ROAD



PROPOSED TYPICAL SECTION

STA 61+71.35 TO STA 64+50, ACCESS ROAD

LEGEND

A	EXISTING HMA PAVEMENT	1	PROPOSED AGGREGATE SUBGRADE IMPROVEMENT – 12"
B	EXISTING CURB AND GUTTER	2	PROPOSED HOT–MIX ASPHALT BINDER COURSE, IL–19.0, N50, – 5.25"
C	EXISTING SIDEWALK TO BE REMOVED	3	PROPOSED HOT–MIX ASPHALT SURFACE COURSE, MIX "D", N50, – 1.5"
D	EXISTING STONE ROAD	4	PROPOSED AGGREGATE BASE COURSE, TYPE B, 6"
▨	ITEM TO BE REMOVED	5	PROPOSED HOT–MIX ASPHALT SURFACE COURSE, MIX "D", N50, – 3"
		6	PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B–6.12
		7	TOPSOIL – 4", FURNISH AND PLACE
		8	SEEDING, CLASS 2A

PROPOSED TYPICAL SECTION

STA 64+50 TO STA 70+47.03, ACCESS ROAD

HOT MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
FULL DEPTH PAVEMENT - ACCESS ROAD	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, - 5.25"	4% @ 50 Gyr.
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, - 1.5"	4% @ 50 Gyr.
FULL DEPTH PAVEMENT - PARKING LOT	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, - 2.25"	4% @ 50 Gyr.
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, - 1.5"	4% @ 50 Gyr.
BIKE PATH	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, - 3"	4% @ 50 Gyr.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.
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 USE OF
RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

EARTHWORK TABLE		
TOTAL CUT (EARTH EXCAVATION)	14,233	CY
TOTAL FILL	3,041	CY
CUT TO FILL (15% SHRINKAGE)	3,497	CY
EXCESS MATERIAL TO BE HAULED AWAY	10,736	CY

FILE NAME = 07552_02-TYPX-01 - IDOT TY-01	USER NAME =	DESIGNED — TAG	REVISED —
		CHECKED — PKB	REVISED —
	PLOT SCALE =	DRAWN — ACAD	REVISED —
	PLOT DATE = 10-10-16	CHECKED — ACAD	REVISED —

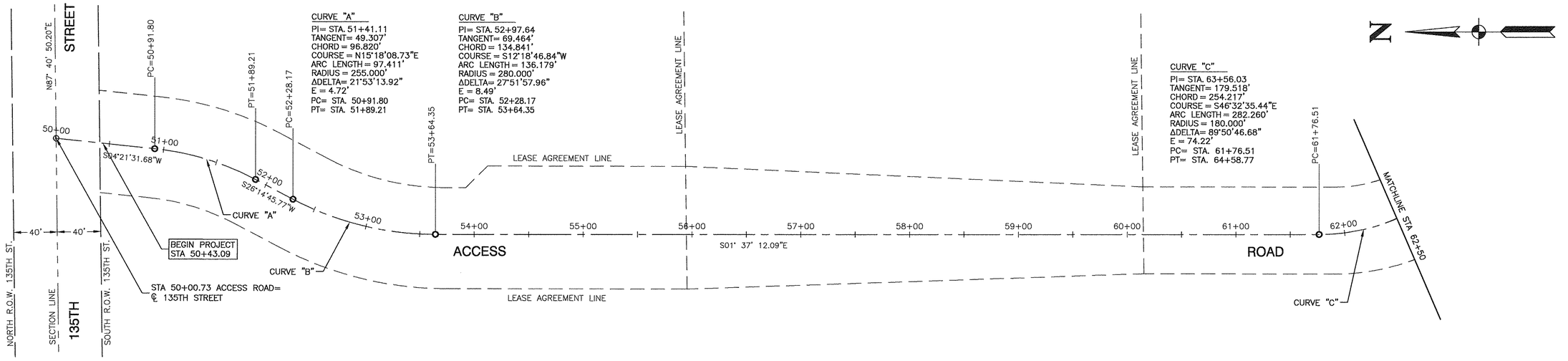
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROMEOVILLE METRA LOT
PROPOSED ACCESS ROAD
TYPICAL SECTIONS

SCALE: 1"=10' | SHEET NO. 6 OF 64 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	6
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

SECTION 2, TOWNSHIP 36, RANGE 10

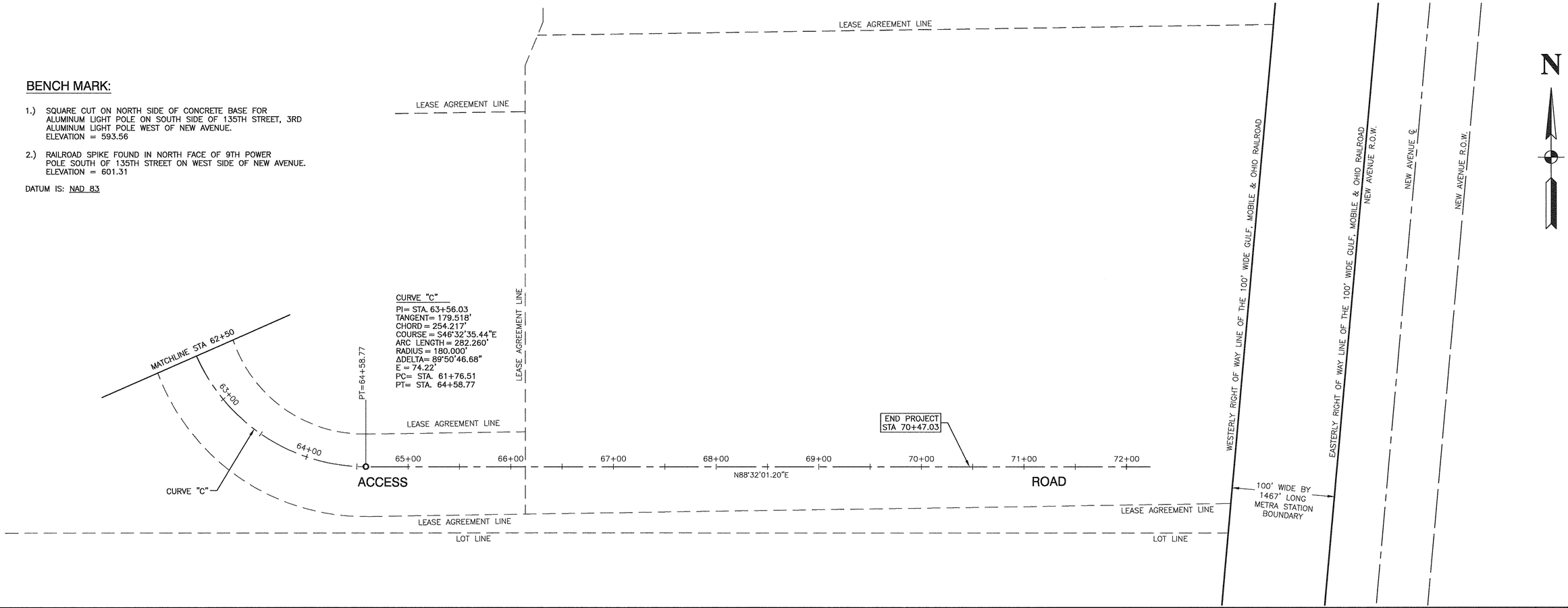


BENCH MARK:

1.) SQUARE CUT ON NORTH SIDE OF CONCRETE BASE FOR ALUMINUM LIGHT POLE ON SOUTH SIDE OF 135TH STREET, 3RD ALUMINUM LIGHT POLE WEST OF NEW AVENUE.
ELEVATION = 593.56

2.) RAILROAD SPIKE FOUND IN NORTH FACE OF 9TH POWER POLE SOUTH OF 135TH STREET ON WEST SIDE OF NEW AVENUE.
ELEVATION = 601.31

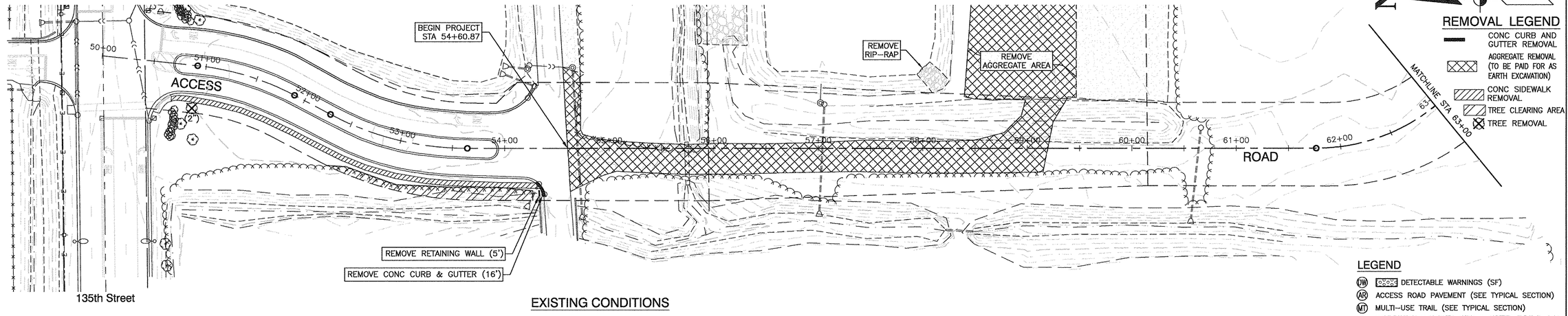
DATUM IS: NAD 83



FILE NAME = 07552_02-TIES-01 - IDOT ALGN-TIES	USER NAME =	DESIGNED — TAG	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROMEOVILLE METRA LOT PROPOSED ACCESS ROAD ALIGNMENT - TIES AND BENCHMARKS
		CHECKED — PKB	REVISED —		
	PLOT SCALE =	DRAWN — JJB	REVISED —		SCALE: 1"=50' SHEET NO. 7 OF 64 SHEETS STA. TO STA.
	PLOT DATE = 10-10-16	CHECKED — AG	REVISED —		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	7
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

SECTION 2, TOWNSHIP 36, RANGE 10



EXISTING CONDITIONS

REMOVAL LEGEND

- CONC CURB AND GUTTER REMOVAL
- AGGREGATE REMOVAL (TO BE PAID FOR AS EARTH EXCAVATION)
- CONC SIDEWALK REMOVAL
- TREE CLEARING AREA
- TREE REMOVAL

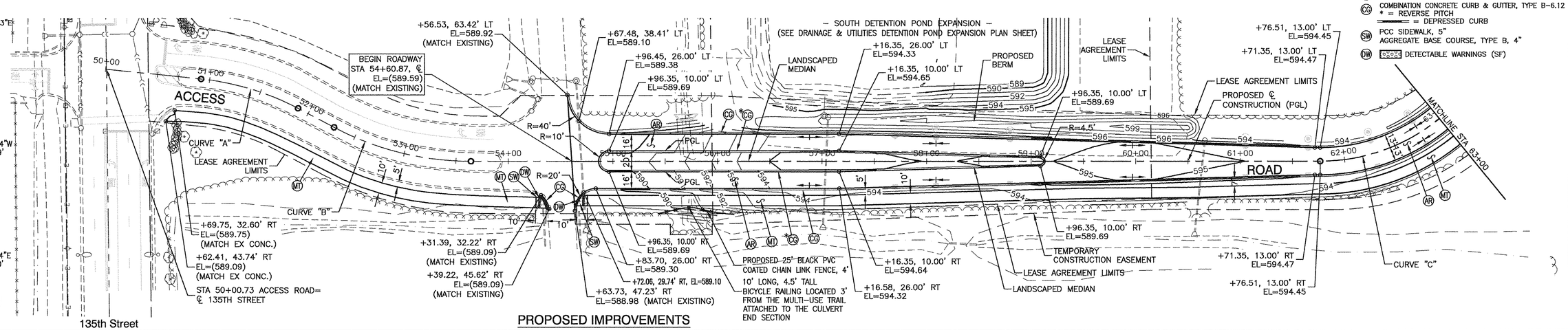
LEGEND

- (DW) DETECTABLE WARNINGS (SF)
- (AR) ACCESS ROAD PAVEMENT (SEE TYPICAL SECTION)
- (MT) MULTI–USE TRAIL (SEE TYPICAL SECTION)
- (CG) COMBINATION CONCRETE CURB & GUTTER, TYPE B–6.12 * = REVERSE PITCH
  = DEPRESSED CURB
- (SW) PCC SIDEWALK, 5" AGGREGATE BASE COURSE, TYPE B, 4"
- (DW) DETECTABLE WARNINGS (SF)

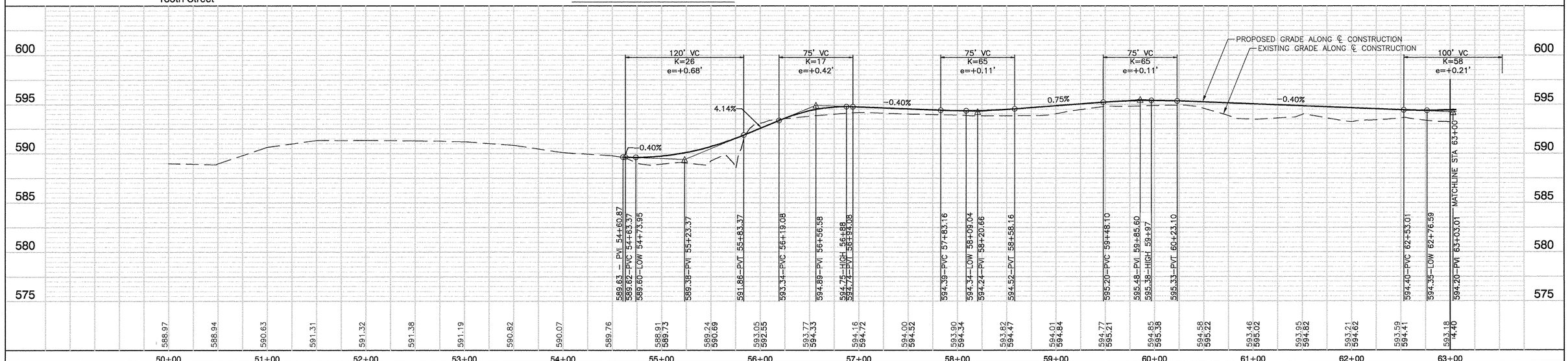
CURVE "A"
PI= STA. 51+41.11
TANGENT= 49.307'
CHORD = 96.820'
COURSE = N15°18'08.73"E
ARC LENGTH = 97.411'
RADIUS = 255.000'
ΔDELTA= 21°53'13.92"
E = 4.72'
PC= STA. 50+91.80
PT= STA. 51+89.21

CURVE "B"
PI= STA. 52+97.64
TANGENT= 69.464'
CHORD = 134.841'
COURSE = S12°18'46.84"W
ARC LENGTH = 136.179'
RADIUS = 280.000'
ΔDELTA= 27°51'57.96"
E = 8.49'
PC= STA. 52+28.17
PT= STA. 53+64.35

CURVE "C"
PI= STA. 63+56.03
TANGENT= 179.518'
CHORD = 254.217'
COURSE = S46°32'35.44"E
ARC LENGTH = 282.260'
RADIUS = 180.000'
ΔDELTA= 89°50'46.68"
E = 74.22'
PC= STA. 61+76.51
PT= STA. 64+58.77



PROPOSED IMPROVEMENTS



PLAN — SURVEYED; PLOTTED; GRADES CHECKED; R.O.W. CHECKED; AS–BUILT; CADD FILE NAME; NOTE BOOK; NO.; BY; DATE

PROFILE — SURVEYED; PLOTTED; GRADES CHECKED; B.M. NOTED; NOTE BOOK; BY; DATE

FILE NAME = 07552_02-PLPR-01 - IDOT PLPR01

USER NAME =	DESIGNED — TAG	REVISED —	
	CHECKED — PKB	REVISED —	
PLOT SCALE =	DRAWN — RG	REVISED —	
PLOT DATE = 10-10-16	CHECKED — AG	REVISED —	

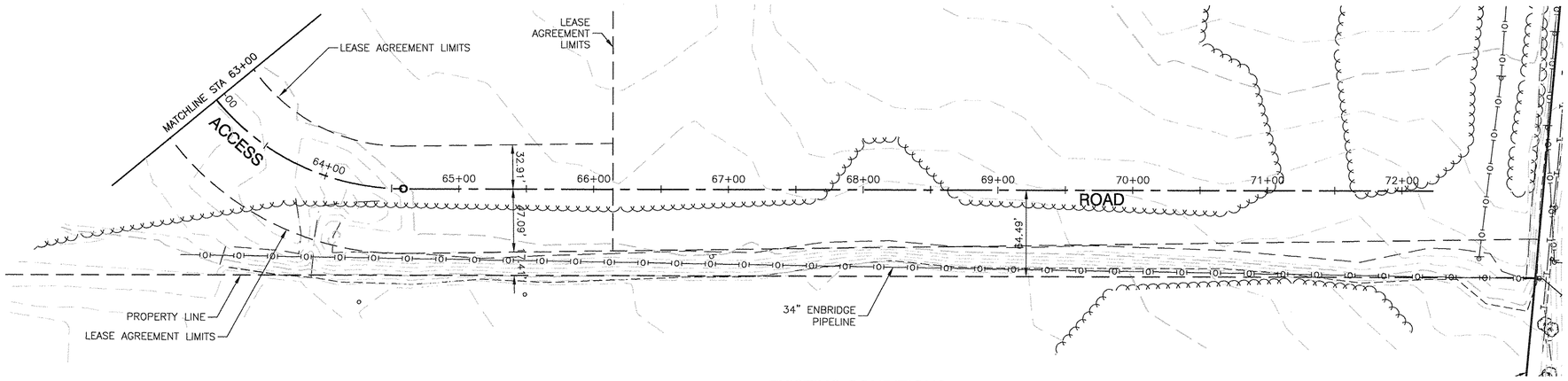
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROMEOVILLE METRA LOT
PROPOSED ACCESS ROAD
PLAN & PROFILE

SCALE: H 1"=50' V 1"=5 | SHEET NO. 8 OF 64 SHEETS | STA. | TO STA.

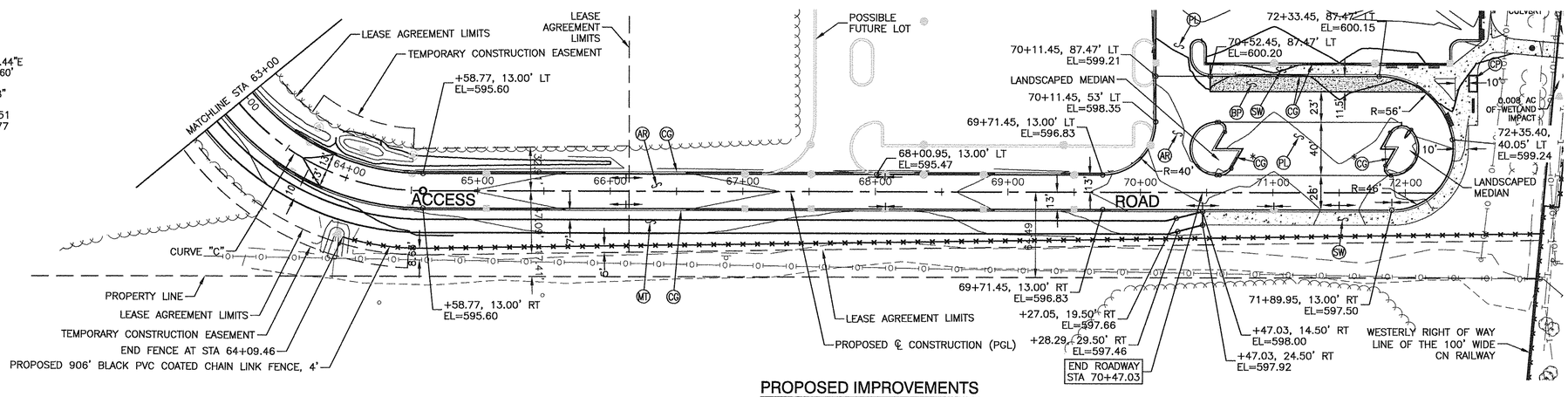
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	8
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

SECTION 2, TOWNSHIP 36, RANGE 10



EXISTING CONDITIONS

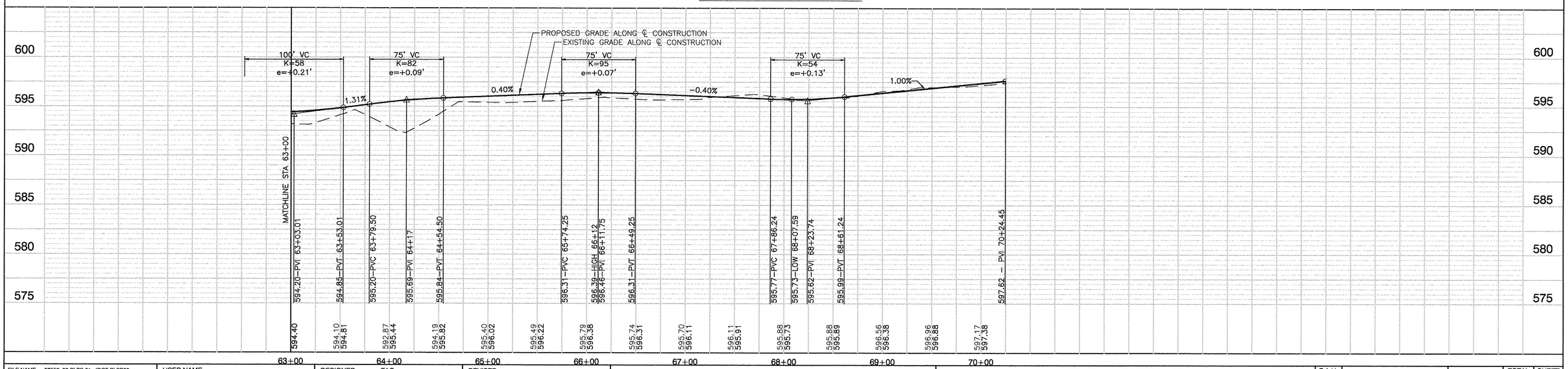
CURVE "C"
PI= STA. 63+56.03
TANGENT= 179.518'
CHORD = 254.217'
COURSE = S46°32'35.44"E
ARC LENGTH= 282.260'
RADIUS = 180.000'
ΔDELTA= 89°50'46.68"
E = 74.22'
PC= STA. 61+76.51
PT= STA. 64+58.77



LEGEND

- (DW) DETECTABLE WARNINGS (SF)
- (AR) ACCESS ROAD PAVEMENT (SEE TYPICAL SECTION)
- (MT) MULTI-USE TRAIL (SEE TYPICAL SECTION)
- (PL) PARKING LOT PAVEMENT
  HOT-MIX SURFACE COURSE, MIX "D", 1.5"
  HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25"
  AGGREGATE BASE COURSE, TYPE B, 10"
- (BP) CONCRETE PAVEMENT FOR BUS PARKING
  PCC JOINTED PAVEMENT, 8"
  AGGREAGATE BASE COURSE, TYPE B, 4"
- (CG) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12
  * = REVERSE PITCH
  ═══ = DEPRESSED CURB
- (CP) CONCRETE PAD FOR SHELTER – 7'x13'
  8" PCC, AGGREGATE BASE COURSE, TYPE B, 4"
- (SW) PCC SIDEWALK, 5"
  AGGREGATE BASE COURSE, TYPE B, 4"

PROPOSED IMPROVEMENTS



594.40	594.10	594.81	592.87	593.44	594.19	595.82	595.40	596.02	595.49	596.22	595.79	596.38	595.74	596.31	595.70	596.11	596.11	595.91	595.88	595.73	595.88	595.89	596.56	596.38	596.96	596.88	597.17	597.38

FILE NAME = 07552_02-PLPR-01 - IDOT PLPR02	USER NAME =	DESIGNED — TAG	REVISED —
		CHECKED — PKB	REVISED —
	PLOT SCALE =	DRAWN — RG	REVISED —
	PLOT DATE = 10-10-16	CHECKED — AG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

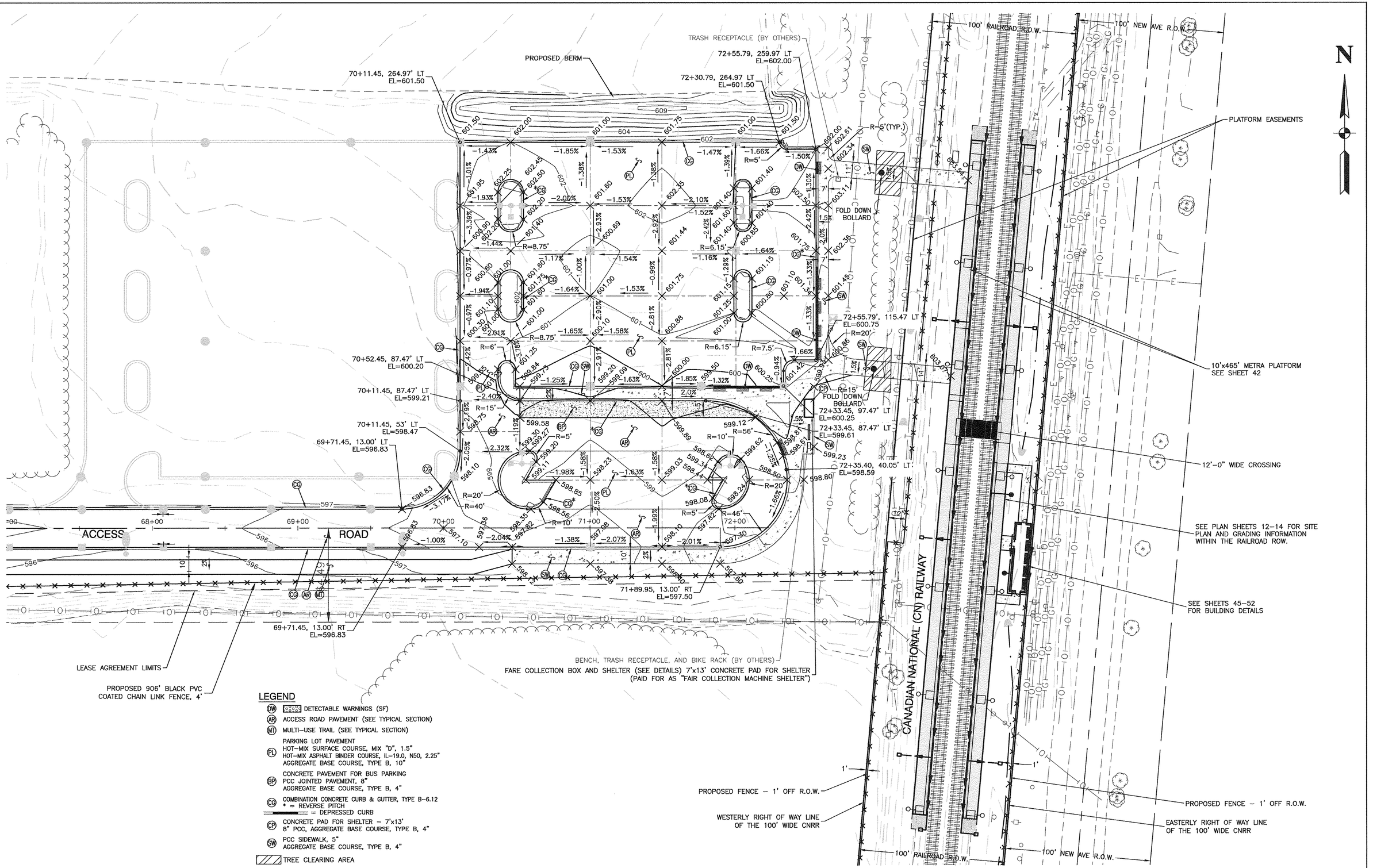
ROMEOVILLE METRA LOT
PROPOSED ACCESS ROAD
PLAN & PROFILE

SCALE: H 1"=50' V 1"=5' | SHEET NO. 9 OF 64 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	9
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

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

PROFILE — DATE | BY | SURVEYED | PLOTTED | CROSS SECT. CHECKED | B.M. NOTED | NOTE BOOK



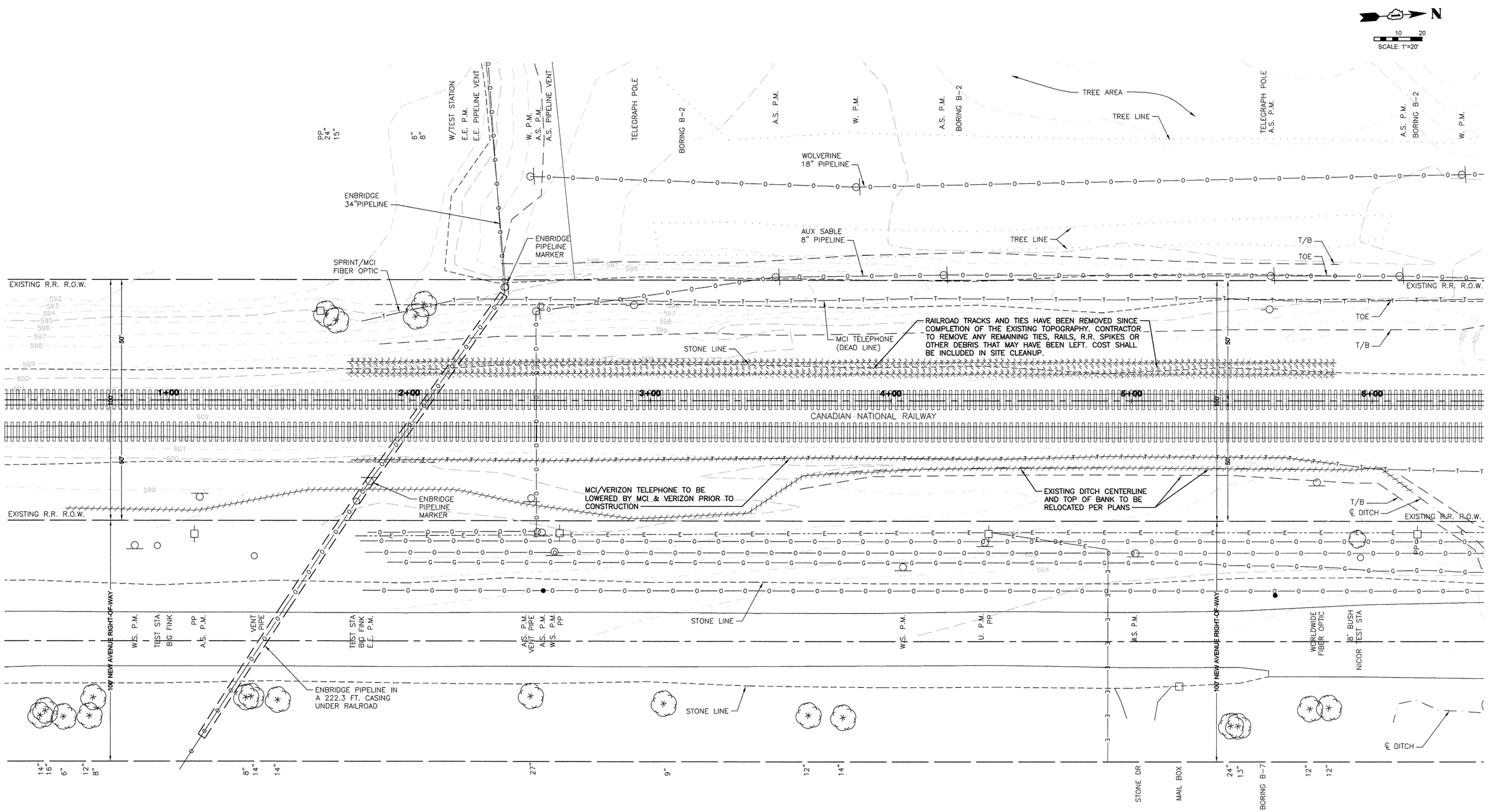
LEGEND

- (DW) DETECTABLE WARNINGS (SF)
- (AR) ACCESS ROAD PAVEMENT (SEE TYPICAL SECTION)
- (MT) MULTI-USE TRAIL (SEE TYPICAL SECTION)
- (PL) PARKING LOT PAVEMENT
  HOT-MIX SURFACE COURSE, MIX "D", 1.5"
  HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2.25"
  AGGREGATE BASE COURSE, TYPE B, 10"
- (BP) CONCRETE PAVEMENT FOR BUS PARKING
  PCC JOINTED PAVEMENT, 8"
  AGGREGATE BASE COURSE, TYPE B, 4"
- (CG) COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12
  * = REVERSE PITCH
  = DEPRESSED CURB
- (CP) CONCRETE PAD FOR SHELTER - 7'x13'
  8" PCC, AGGREGATE BASE COURSE, TYPE B, 4"
- (SW) PCC SIDEWALK, 5"
  AGGREGATE BASE COURSE, TYPE B, 4"
- TREE CLEARING AREA

FILE NAME = 07552_02-PLPR-01 - IDOT P01	USER NAME =	DESIGNED - TAG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROMEOVILLE METRA LOT PROPOSED ACCESS ROAD PARKING LOT PLAN
		CHECKED - PKB	REVISED -		
	PLOT SCALE =	DRAWN - RG/JJB	REVISED -		SCALE: 1"=30' SHEET NO. 10 OF 64 SHEETS STA. TO STA.
	PLOT DATE = 10-10-16	CHECKED - AG	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	10
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

SECTION 2, TOWNSHIP 36, RANGE 10



THE PORTION OF THIS TECHNICAL SUBMISSION DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION. I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF ILLINOIS.

JASON L. FRERICKS 062-059118 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

SIGNATURE: Jason Frick

NAME: JASON L. FRERICKS

DATE:

LICENSE RENEWAL DATE: 11/30/2017

PAGES OR DIVISIONS COVERED: 11, 12, 13, 14, 42, 43, 44, 62, 63, 64

FILE NAME = 07552_02-PLAN-11-EXISTING & REMOVAL	USER NAME =	DESIGNED — JLF	REVISED —
		CHECKED — KRS	REVISED —
	PLOT SCALE =	DRAWN — GLS/NDH	REVISED —
	PLOT DATE = 10-10-2016	CHECKED — BMK	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROMEOVILLE METRA STATION
PLATFORM AREA
EXISTING & DEMOLITION PLAN

SCALE: 1"=20' | SHEET NO. 11 OF 64 SHEETS | STA. | TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	11

CONTRACT NO. 61D08

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT CMM-9003(600)

FILE NAME = 07552_02-PLPR-12-13 FARNSWORTH	USER NAME =	DESIGNED — JLF	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROMEOVILLE METRA STATION PLATFORM AREA PLATFORM PLAN & PROFILE
		CHECKED — KRS	REVISED —		
	PLOT SCALE =	DRAWN — GLS	REVISED —		
	PLOT DATE = 10-10-2016	CHECKED — BMK	REVISED —		SCALE: H:1"=20' V:1"=5' SHEET NO. 12 OF 64 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	12
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

SECTION 2, TOWNSHIP 36, RANGE 10

GRADE POINT CHART

POINT #	STATION	OFFSET	ELEVATION	DESCRIPTION
1	1+00.04	5.81'LT	600.84	MATCH EXISTING GRADE
2	1+10.04	5.81'LT	602.36	TOP OF PLATFORM
3	1+10.03	15.81'LT	602.25	TOP OF PLATFORM
4	1+50	5.84'LT	602.40	TOP OF PLATFORM
5	1+50	15.84'LT	602.29	TOP OF PLATFORM
6	2+00	5.87'LT	602.43	TOP OF PLATFORM
7	2+00	15.87'LT	602.25	TOP OF PLATFORM
8	2+50	5.89'LT	602.59	TOP OF PLATFORM
9	2+50	15.89'LT	602.48	TOP OF PLATFORM
10	3+00	5.92'LT	602.80	TOP OF PLATFORM
11	3+00	15.92'LT	602.69	TOP OF PLATFORM
12	3+50	5.95'LT	602.97	TOP OF PLATFORM
13	3+50	15.95'LT	602.86	TOP OF PLATFORM
14	3+55.54	5.96'LT	602.98	TOP OF PLATFORM
15	3+55.53	15.96'LT	602.87	TOP OF PLATFORM
16	3+71.54	5.96'LT	602.37	TOP OF PLATFORM
17	3+83.54	5.97'LT	602.41	TOP OF PLATFORM
18	3+99.54	5.98'LT	603.13	TOP OF PLATFORM
19	3+99.53	15.98'LT	603.02	TOP OF PLATFORM
20	4+00	5.98'LT	603.13	TOP OF PLATFORM
21	4+00	15.98'LT	603.02	TOP OF PLATFORM
22	4+07.03	15.99'LT	603.05	TOP OF WALK
23	4+18.03	15.99'LT	603.09	TOP OF WALK
24	4+50	6.01'LT	603.32	TOP OF PLATFORM
25	4+50	6.01'LT	603.21	TOP OF PLATFORM
26	5+00	6.07'LT	603.50	TOP OF PLATFORM
27	5+00	16.07'LT	603.39	TOP OF PLATFORM
28	5+41.62	16.06'LT	603.52	TOP OF WALK
29	5+50	6.07'LT	603.63	TOP OF PLATFORM
30	5+50	16.07'LT	603.54	TOP OF PLATFORM
31	5+52.62	16.07'LT	603.55	TOP OF WALK
32	5+75.04	6.08'LT	603.73	TOP OF PLATFORM
33	5+75.04	16.08'LT	603.62	TOP OF PLATFORM
34	5+85.04	6.09'LT	602.55	MATCH EXISTING GRADE
35	1+00.05	18.82'RT	601.33	MATCH EXISTING GRADE
36	1+10.06	28.81'RT	602.74	TOP OF PLATFORM
37	1+10.06	18.81'RT	602.85	TOP OF PLATFORM
38	1+50	18.79'RT	602.89	TOP OF PLATFORM
39	1+50	28.79'RT	602.78	TOP OF PLATFORM
40	2+00	18.76'RT	602.96	TOP OF PLATFORM
41	2+00	28.76'RT	602.85	TOP OF PLATFORM
42	2+50	18.73'RT	603.10	TOP OF PLATFORM
43	2+50	28.73'RT	602.99	TOP OF PLATFORM
44	2+59.38	28.73'RT	603.01	TOP OF WALK
45	2+59.39	45.05'RT	603.00	TOP OF WALK
46	2+65.38	28.72'RT	603.02	TOP OF WALK
47	3+00	18.70'RT	603.18	TOP OF PLATFORM
48	3+00	28.70'RT	603.07	TOP OF PLATFORM
49	2+96.15	28.70'RT	603.06	TOP OF WALK
50	3+06.15	28.70'RT	603.07	TOP OF WALK
51	3+49.56	28.67'RT	603.18	TOP OF WALK
52	3+50	18.67'RT	603.29	TOP OF PLATFORM
53	3+50	28.67'RT	603.18	TOP OF PLATFORM
54	3+55.55	18.66'RT	603.31	TOP OF PLATFORM
55	3+55.56	28.67'RT	603.20	TOP OF PLATFORM
56	3+71.55	18.66'RT	602.68	TOP OF PLATFORM
57	3+83.55	18.65'RT	602.70	TOP OF PLATFORM
58	3+99.55	18.64'RT	603.42	TOP OF PLATFORM
59	3+99.57	28.64'RT	603.31	TOP OF PLATFORM
60	4+00	18.64'RT	603.42	TOP OF PLATFORM
61	4+00	28.64'RT	603.31	TOP OF PLATFORM

GRADE POINT CHART

POINT #	STATION	OFFSET	ELEVATION	DESCRIPTION
62	4+50	18.62'RT	603.62	TOP OF PLATFORM
63	4+50	18.62'RT	603.51	TOP OF PLATFORM
64	5+00	18.59'RT	603.81	TOP OF PLATFORM
65	5+00	28.59'RT	603.70	TOP OF PLATFORM
66	5+50	18.56'RT	603.98	TOP OF PLATFORM
67	5+50	28.56'RT	603.87	TOP OF PLATFORM
68	5+75.05	18.54'RT	604.07	TOP OF PLATFORM
69	5+75.06	28.54'RT	603.96	TOP OF PLATFORM
70	5+85.05	18.54'RT	602.53	MATCH EXISTING GRADE
71	0+43.14	44.84'RT	598.15	BOTTOM CENTER OF SWALE
72	1+00.06	46.45'RT	598.43	BOTTOM CENTER OF SWALE
73	2+44.41	38.23'RT	599.30	BOTTOM CENTER OF SWALE
74	2+67.91	39.05'RT	603.06	TOP OF WALK
75	2+67.91	45.05'RT	603.06	TOP OF WALK
76	2+96.16	36.92'RT	603.06	TOP OF WALK
77	3+06.16	36.91'RT	603.06	TOP OF WALK
78	3+16.16	39.04'RT	603.06	TOP OF WALK
79	3+16.16	45.04'RT	603.06	TOP OF WALK
80	3+55.57	45.04'RT	602.90	TOP OF WALK
81	3+49.56	39.04'RT	603.00	TOP OF WALK
82	3+66.61	32.56'RT	600.31	BOTTOM CENTER OF SWALE
83	6+24.48	43.50'RT	601.54	BOTTOM CENTER OF SWALE
84	3+16.16	35.90'RT	600.74	6" PIPE INVERT
85	2+66.91	35.93'RT	600.52	6" PIPE INVERT
86	2+66.92	49.93'RT	600.66	6" PIPE INVERT
87	3+16.17	49.90'RT	601.15	6" PIPE INVERT
126	2+80.58	35.92'RT	600.38	6" PIPE INVERT
150	0+90.05	5.81'LT	600.84	MATCH EXISTING GRADE
151	0+90.05	12.50'LT	599.09	MATCH EXISTING GRADE
152	1+00.05	15.81'LT	600.73	AGGREGATE RAMP
153	5+85.04	16.08'LT	602.44	AGGREGATE RAMP
154	5+95.04	6.09'LT	602.56	MATCH EXISTING GRADE
155	5+95.04	11.60'LT	601.87	MATCH EXISTING GRADE
156	0+90.05	18.82'RT	601.29	MATCH EXISTING GRADE
157	0+90.05	25.58'RT	599.64	MATCH EXISTING GRADE
158	1+00.05	28.82'RT	601.22	AGGREGATE RAMP
159	5+85.04	28.54'RT	602.42	AGGREGATE RAMP
160	5+95.04	18.54'RT	602.57	MATCH EXISTING GRADE
161	5+95.04	25.93'RT	601.37	MATCH EXISTING GRADE
200	1+00	5.56'LT	599.84	INVERT 6" UNDERDRAIN ELBOW
201	1+50	5.59'LT	598.96	INVERT 6" UNDERDRAIN TEE
202	2+00	5.62'LT	599.08	INVERT 6" UNDERDRAIN
203	2+50	5.64'LT	599.21	INVERT 6" UNDERDRAIN
204	3+00	5.67'LT	599.42	INVERT 6" UNDERDRAIN
205	3+50	5.70'LT	599.59	INVERT 6" UNDERDRAIN TEE
206	4+00	5.73'LT	599.75	INVERT 6" UNDERDRAIN
207	4+50	5.76'LT	599.94	INVERT 6" UNDERDRAIN
208	5+00	5.82'LT	600.12	INVERT 6" UNDERDRAIN TEE
209	5+50	5.82'LT	600.27	INVERT 6" UNDERDRAIN
210	5+85	5.84'LT	600.52	INVERT 6" UNDERDRAIN
211	1+00	18.57'RT	599.33	INVERT 6" UNDERDRAIN ELBOW
212	1+50	18.54'RT	599.48	INVERT 6" UNDERDRAIN TEE
213	2+00	18.51'RT	599.58	INVERT 6" UNDERDRAIN
214	2+50	18.48'RT	599.72	INVERT 6" UNDERDRAIN
215	3+00	18.45'RT	599.80	INVERT 6" UNDERDRAIN
216	3+35	18.43'RT	599.88	INVERT 6" UNDERDRAIN TEE
217	3+50	18.41'RT	599.91	INVERT 6" UNDERDRAIN
218	4+00	18.39'RT	600.04	INVERT 6" UNDERDRAIN
219	4+50	18.37'RT	600.24	INVERT 6" UNDERDRAIN TEE
220	5+00	18.34'RT	600.43	INVERT 6" UNDERDRAIN
221	5+50	18.31'RT	600.60	INVERT 6" UNDERDRAIN
222	5+85	18.29'RT	600.53	INVERT 6" UNDERDRAIN
223	1+00	16.54'LT	598.65	INVERT HEADWALL
224	1+50	29.14'LT	598.58	INVERT HEADWALL
225	3+00	31.10'LT	598.95	INVERT HEADWALL
226	4+50	35.03'LT	599.39	INVERT HEADWALL
227	1+00	27.42'RT	599.09	INVERT HEADWALL
228	1+50	43.58'RT	599.02	INVERT HEADWALL

STORM STRUCTURE CHART

POINT #	STATION	OFFSET	RIM ELEVATION	INVERTS & DIRECTION	DESCRIPTION
A	3+35	32.70'RT	602.90	(15"N) 599.76 (15"S) 599.66 (6"W) 600.16	INLET, TYPE A, TYPE 1 FRAME, OPEN LID
B	2+81	32.70'RT	602.90	(15"N) 599.50 (15"S) 599.40 (6"E) 599.60	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID

FILE NAME = 07552_PLPR-12-13 FARNSWORTH

USER NAME =		DESIGNED — JLF	REVISED —
		CHECKED — KRS	REVISED —
PLOT SCALE =		DRAWN — GLS|NDH	REVISED —
PLOT DATE =	10-10-16	CHECKED — BMK	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

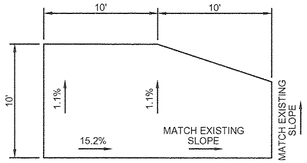
ROMEOVILLE METRA STATION
PLATFORM AREA
GRADE POINT CHARTS

SCALE: NONE | SHEET NO. 13 OF 64 SHEETS | STA. | TO STA.

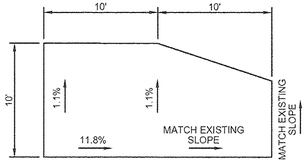
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	13
		CONTRACT NO. 61D08		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT CMM-9003(600)

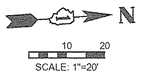
SECTION 2, TOWNSHIP 36, RANGE 10



DETAIL "A"



DETAIL "B"



MATCH LINE (SEE PARKING LOT PLAN)

PROPOSED 806 LF BLACK PVC COATED CHAIN LINK FENCE, 8' HIGH TO EXTEND 500' BEYOND THE EDGE OF PLATFORM

FENCE POST FOUNDATIONS SHALL BE A MINIMUM OF 5' FROM 34" ENBRIDGE PIPELINE

CONTRACTOR TO CONTACT JEFF GISH OF AUX SABLE AT 815-941-5992 TO ENSURE PROPOSED FENCE POSTS DO NOT INTERFERE WITH EXISTING PIPELINE FACILITIES

INSTALL COLLAPSIBLE BOLLARD CENTERED ON SIDEWALK

PROPOSED 117 LF BLACK PVC COATED CHAIN LINK FENCE, 8' HIGH

INSTALL COLLAPSIBLE BOLLARD CENTERED ON SIDEWALK

PROPOSED 519 LF BLACK PVC COATED CHAIN LINK FENCE, 8' HIGH TO EXTEND 500' BEYOND THE EDGE OF PLATFORM

P.C. CONCRETE SW, 5" 4' WIDE x 8' LONG FOR SALT BOX

PROPOSED EASEMENT

STA. 2+95, 49' LT

MCI TELEPHONE (DEAD LINE)

AUX SABLE 8" PIPELINE

TREE LINE

SEE SHEET 20 FOR CULVERT INFORMATION

SEE SHEET 20 FOR CULVERT INFORMATION

EXISTING R.R. R.O.W.

SPRINT/MCI FIBER OPTIC

STA. 2+95, 38' LT

2'-0" WIDE TACTILE DETECTABLE WARNING PANEL TYPICAL AT THE EDGE OF PLATFORM. SEE DETAILS

10' WIDE x 465' LG. METRA PLATFORM TYP. BOTH SIDES. SEE DETAILS

P.C. CONC. S.W., 5"

WAYFINDING SIGN #1 SEE SHEET 43 FOR DETAILS

P.C. CONC. S.W.-5"

EXISTING R.R. R.O.W.

N 1810321.95
E 1061856.01

AGGREGATE SURFACE COURSE, TYPE B, 6" PLACE AT EACH PLATFORM END (TYP. 4 PLACES)

SEE DETAIL "A"

EDGE OF RAILROAD BALLAST

N 1810786.06
E 1061884.82

EDGE OF RAILROAD BALLAST

SEE DETAIL "B"

1+00 2+00 3+00 4+00 5+00 6+00

WAYFINDING SIGN #1 SEE SHEET 43 FOR DETAILS

CATCH BASIN, TY. C, TY. 1 FRAME, OL

N 1810476.30
E 1061918.65

N 1810524.21
E 1061924.64

INLET, TY. A, TY. 1 FRAME, OL

12' WIDE PEDESTRIAN CROSSING (BY CN)

CANADIAN NATIONAL RAILWAY

WAYFINDING SIGN #1 SEE SHEET 43 FOR DETAILS

SEE DETAIL "A"

40' x 15' AREA FOR SNOW STORAGE

P.C. CONC. S.W., 5"

6" PIPE DRAIN @ 1.3%

EDGE OF RAILROAD BALLAST

SEE DETAIL "A"

PRC FLARED END SECTION, 15"

PROPOSED DEPOT F.F.E.=603.10

WAYFINDING SIGN #2 SEE SHEET 43 FOR DETAILS

175.5' CENTERLINE OF ADA CAR DOOR

N 1810319.19
E 1061900.54

N 1810783.29
E 1061929.36

EXISTING R.R. R.O.W.

EXISTING R.R. R.O.W.

WAYFINDING SIGN #2 SEE SHEET 43 FOR DETAILS

P.C. CONC. S.W., 5"

6" PIPE DRAIN @ 1.0%

1' TYP.

N 1810475.55
E 1061930.62

N 1810523.46
E 1061933.61

SITE LIGHTING SEE ELECTRICAL PLANS FOR DETAIL (TYP.)

P.C. CONCRETE SW, 5" 4' WIDE x 8' LONG FOR SALT BOX

FENCE POST FOUNDATIONS SHALL BE A MINIMUM OF 5' FROM 34" ENBRIDGE PIPELINE IN 40" CASING PIPE.

P.C. CONC. S.W., 5"

PRC FLARED END SECTION, 15"

PROPOSED 12' WIDE PVC COATED CHAIN LINK GATE

40' x 15' AREA FOR SNOW STORAGE

NEW AVENUE

PROPOSED 21 LF BLACK PVC COATED CHAIN LINK FENCE, 8' HIGH

100' NEW AVENUE RIGHT-OF-WAY

W.S. P.M.

TEST STA BIG FINK

PP A.S. P.M.

VENT PIPE

TEST STA BIG FINK E.P. P.M.

A.S. P.M. VENT PIPE

A.S. P.M.

W.S. P.M. PP

W.S. P.M.

U. P.M. PP

W.S. P.M.

WORLDWIDE FIBER OPTIC

8" BUSH TEST STA

NICOR

100' NEW AVENUE RIGHT-OF-WAY

PROPOSED 685 LF BLACK PVC COATED CHAIN LINK FENCE, 8' HIGH TO EXTEND 500' BEYOND THE ENDS OF THE PLATFORM ON EACH SIDE

STONE LINE

PROPOSED 726 LF BLACK PVC COATED CHAIN LINK FENCE, 8' HIGH TO EXTEND 500' BEYOND THE ENDS OF THE PLATFORM ON EACH SIDE

℄ DITCH

14" 16" 6" 12" 8" 8" 14" 14" 27" 9" 12" 14" 8"

PROPOSED EASEMENT

STONE DR

MAIL BOX

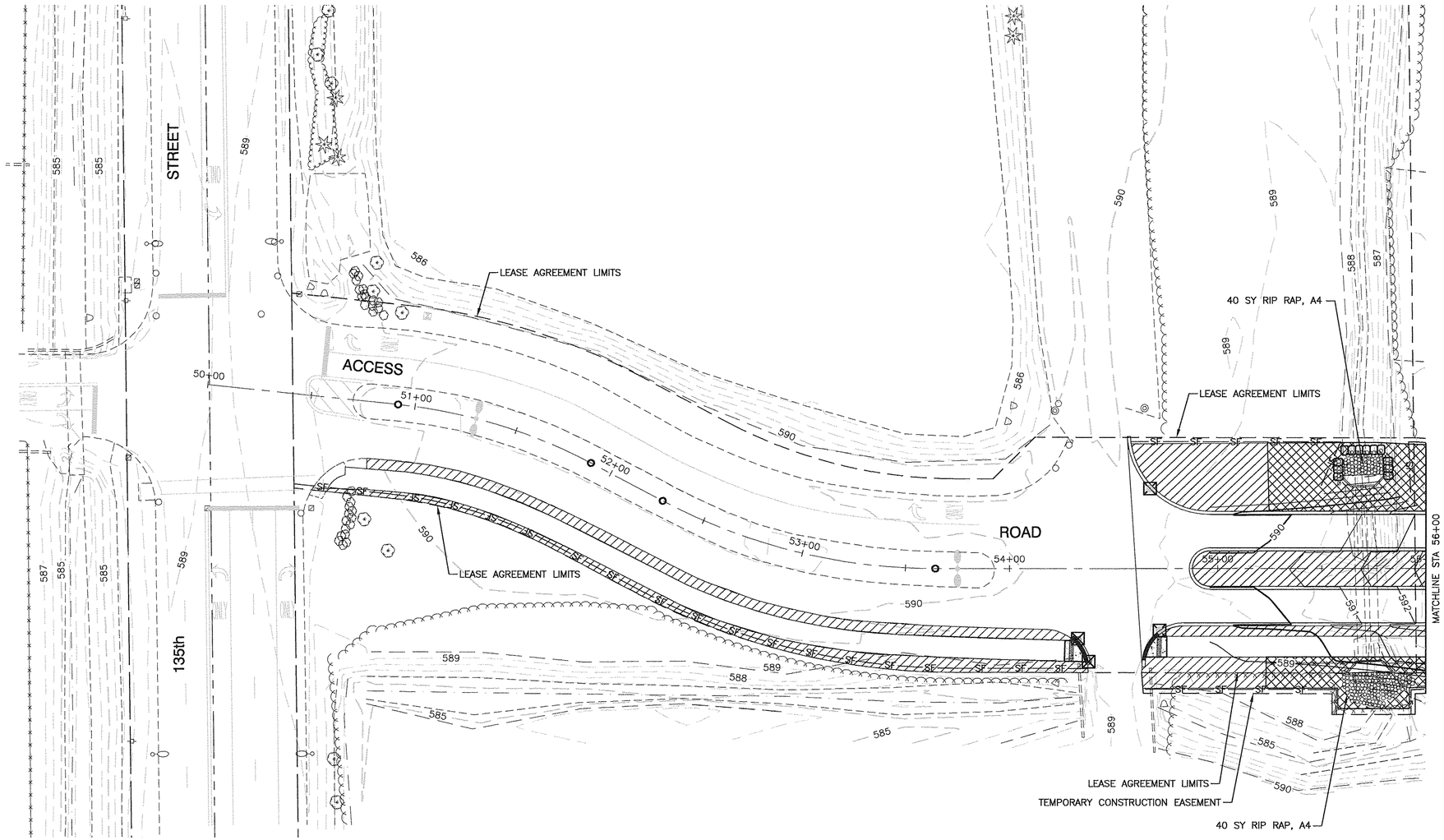
24" 13"

BORING B-7

12" 12"

FILE NAME = 07552_02-PLAN-14-FARNSWORTH	USER NAME =	DESIGNED — JLF	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROMEOVILLE METRA STATION PLATFORM AREA SITE PLAN	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED — KRS	REVISED —			282	10-00056-00-PK	WILL	64	14
	PLOT SCALE =	DRAWN — GLS\NDH	REVISED —					CONTRACT NO. 61D08		
	PLOT DATE = 10-10-2016	CHECKED — BMK	REVISED —		SCALE: 1"=20[] SHEET NO. 14 OF 64 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

SECTION 2, TOWNSHIP 36, RANGE 10



NOTE:
ALL SILT FENCE SHALL BE INSTALLED ONE FOOT INSIDE THE ROW OR EASEMENT UNLESS OTHERWISE NOTED.

KEY	ITEM NAME
—SF—SF—	PERIMETER EROSION BARRIER
	INLET FILTER
	INLET AND PIPE PROTECTION
	SEEDING CLASS 2A WITH EXCELSIOR BLANKET
	SEEDING CLASS 4B WITH EXCELSIOR BLANKET
	SEEDING CLASS 5B WITH EXCELSIOR BLANKET
	TEMPORARY DITCH CHECKS
	FILTER FABRIC STONE RIPRAP, CLASS A3, 8" STONE RIPRAP, CLASS A4, 16"

FILE NAME = 07552_02-SWPP-01 - IDOT LNSC-01	USER NAME =	DESIGNED — TAG	REVISED —
		CHECKED — PKB	REVISED —
	PLOT SCALE =	DRAWN — RG	REVISED —
	PLOT DATE = 10-10-16	CHECKED — AG	REVISED —

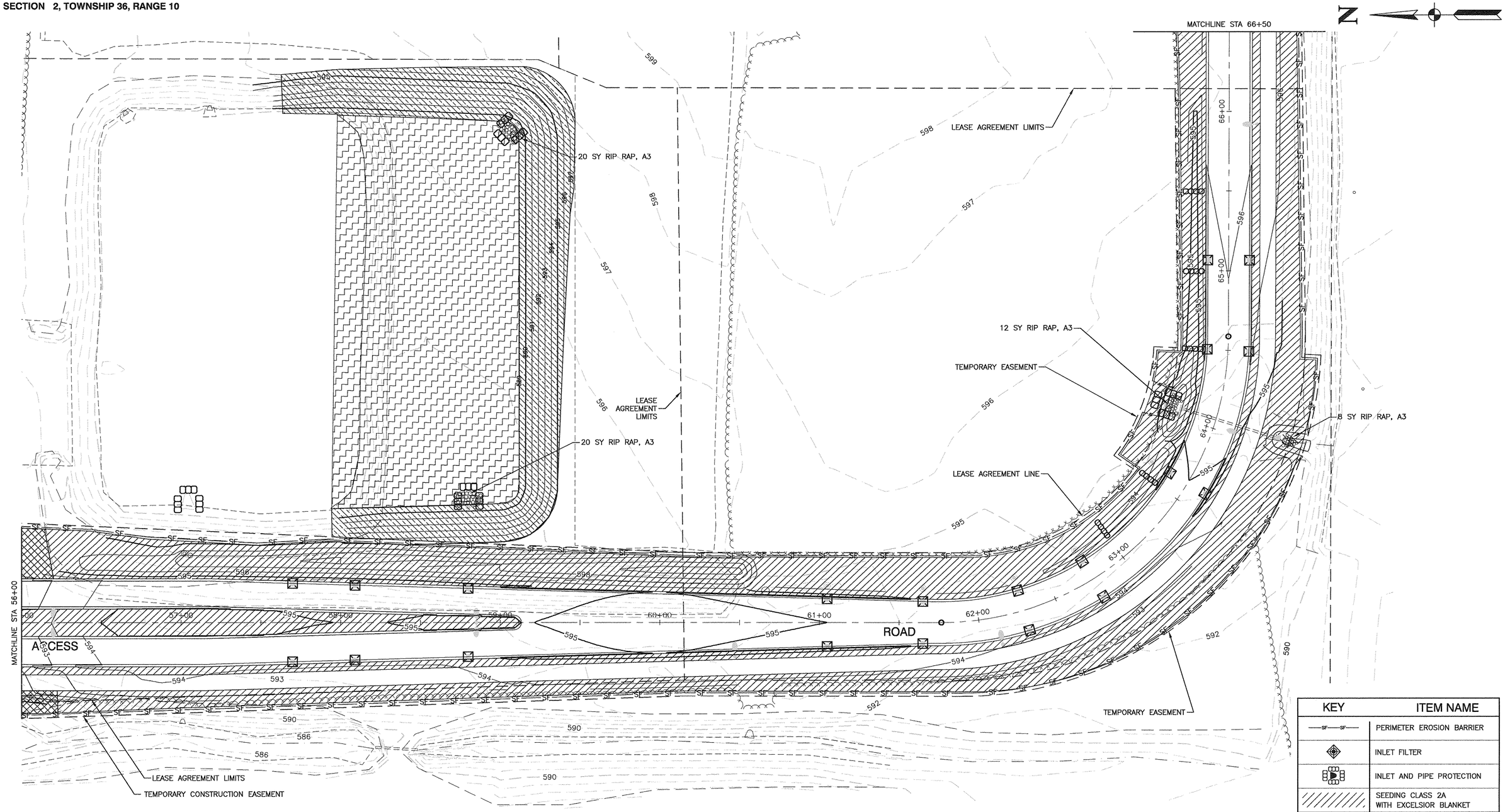
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROMEOVILLE METRA LOT
PROPOSED ACCESS ROAD
EROSION & SEDIMENT CONTROL PLAN

SCALE: 1"=30' | SHEET NO. 15 OF 64 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	15
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

SECTION 2, TOWNSHIP 36, RANGE 10



KEY	ITEM NAME
—SF—SF—	PERIMETER EROSION BARRIER
	INLET FILTER
	INLET AND PIPE PROTECTION
	SEEDING CLASS 2A WITH EXCELSIOR BLANKET
	SEEDING CLASS 4 WITH EXCELSIOR BLANKET
	SEEDING CLASS 4B WITH EXCELSIOR BLANKET
	SEEDING CLASS 5B WITH EXCELSIOR BLANKET
	TEMPORARY DITCH CHECKS
	FILTER FABRIC STONE RIPRAP, CLASS A3, 8" STONE RIPRAP, CLASS A4, 16"

NOTE:
ALL SILT FENCE SHALL BE INSTALLED ONE FOOT INSIDE THE ROW OR EASEMENT UNLESS OTHERWISE NOTED.

FILE NAME = 07552_02-SWPP-01 - IDOT LNSC-02

USER NAME =		DESIGNED — TAG	REVISED —
		CHECKED — PKB	REVISED —
PLOT SCALE =		DRAWN — RG	REVISED —
PLOT DATE =	10-10-16	CHECKED — AG	REVISED —

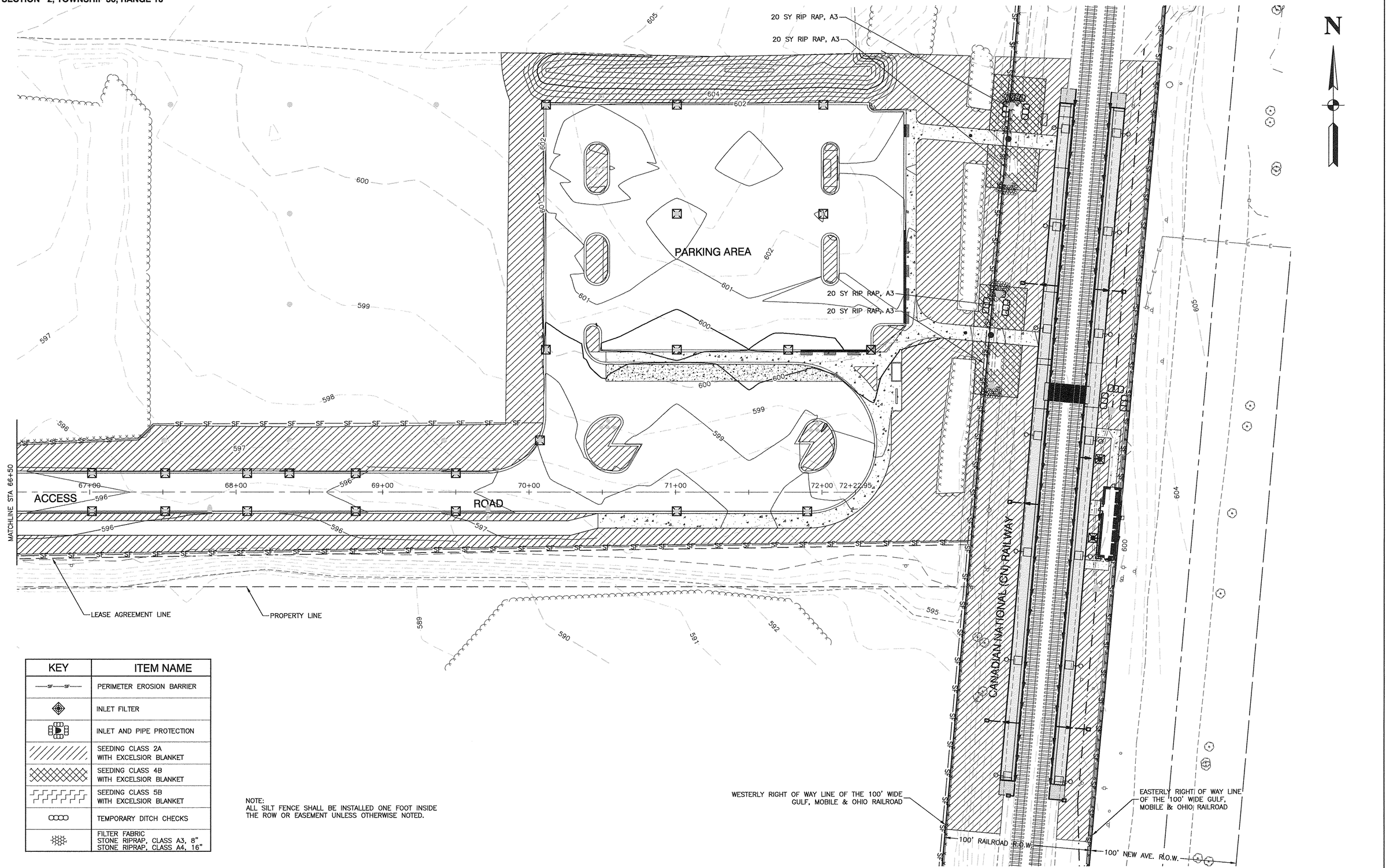
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROMEOVILLE METRA LOT
PROPOSED ACCESS ROAD
EROSION & SEDIMENT CONTROL PLAN

SCALE: 1"=30' | SHEET NO. 16 OF 64 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	16
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

SECTION 2, TOWNSHIP 36, RANGE 10



KEY	ITEM NAME
—SF—SF—	PERIMETER EROSION BARRIER
	INLET FILTER
	INLET AND PIPE PROTECTION
	SEEDING CLASS 2A WITH EXCELSIOR BLANKET
	SEEDING CLASS 4B WITH EXCELSIOR BLANKET
	SEEDING CLASS 5B WITH EXCELSIOR BLANKET
	TEMPORARY DITCH CHECKS
	FILTER FABRIC STONE RIPRAP, CLASS A3, 8" STONE RIPRAP, CLASS A4, 16"

NOTE:
ALL SILT FENCE SHALL BE INSTALLED ONE FOOT INSIDE THE ROW OR EASEMENT UNLESS OTHERWISE NOTED.

FILE NAME = 07552_02-SWPP-01 - IDOT LNSC-03

USER NAME =	DESIGNED — TAG	REVISED —	
	CHECKED — PKB	REVISED —	
PLOT SCALE =	DRAWN — RG	REVISED —	
PLOT DATE = 10-10-16	CHECKED — AG	REVISED —	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROMEOVILLE METRA LOT
PROPOSED ACCESS ROAD
EROSION & SEDIMENT CONTROL PLAN

SCALE: 1"=30' | SHEET NO. 17 OF 64 SHEETS | STA. | TO STA.

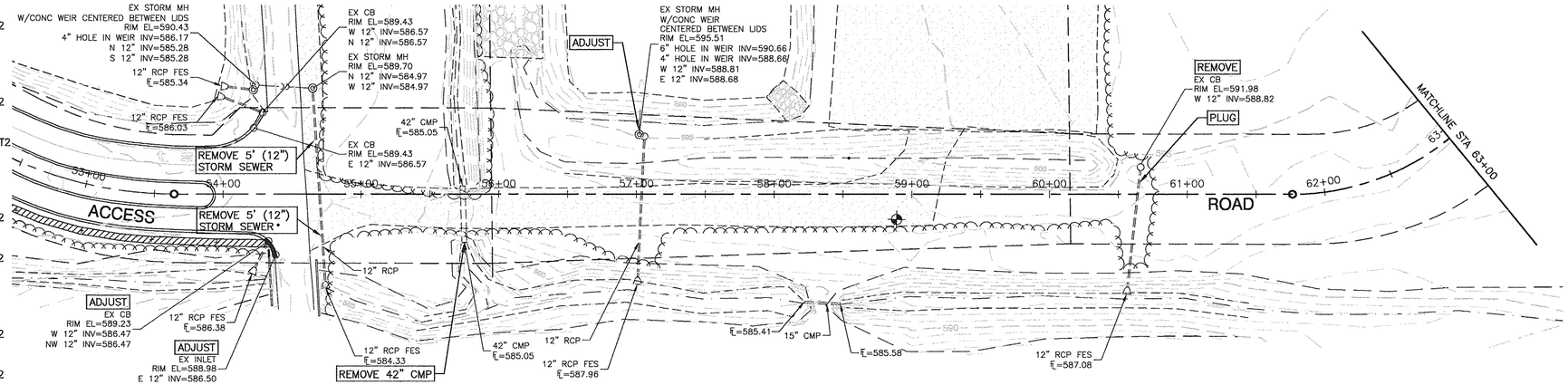
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	17
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

SECTION 2, TOWNSHIP 36, RANGE 10

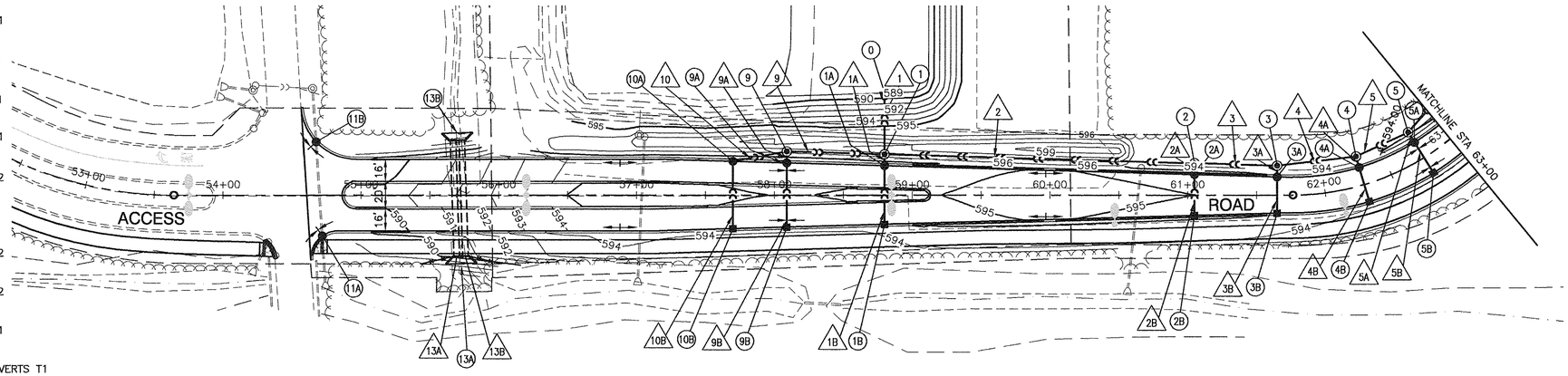
1	45'–18" RCP SST2 @ 0.22%
1A	8'–12" RCP SST2 @ 0.44%
1B	43'–12" RCP SST2 @ 0.44% (13)
2	226'–18" RCP SST2 @ 0.22%
2A	8'–12" RCP SST2 @ 0.44%
2B	30'–12" RCP SST2 @ 0.44% (8.2)
3	61'–18" RCP SST2 @ 0.26%
3A	8'–12" RCP SST2 @ 0.44%
3B	26'–12" RCP SST2 @ 0.44% (5.8)
4	58'–15" RCP SST2 @ 0.33%
4A	8'–12" RCP SST2 @ 0.44%
4B	26'–12" RCP SST1 @ 0.44% (4.1)
5	42–15" RCP SST1 @ 0.33%
5A	11'–12" RCP SST1 @ 0.44%
5B	26'–12" RCP SST1 @ 0.44% (2.8)
9	71'–12" RCP SST2 @ 0.44%
9A	8'–12" RCP SST2 @ 0.44%
9B	47'–12" RCP SST2 @ 0.44% (10)
10	40'–12" RCP SST2 @ 0.44% (9.2)
10B	50'–12" RCP SST1 @ 0.44% (9.5)
13A	86'–48" RCP CULVERTS T1 @ 0.12% (45.3)
13B	86'–48" RCP CULVERTS T1 @ 0.12% (45.3)

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

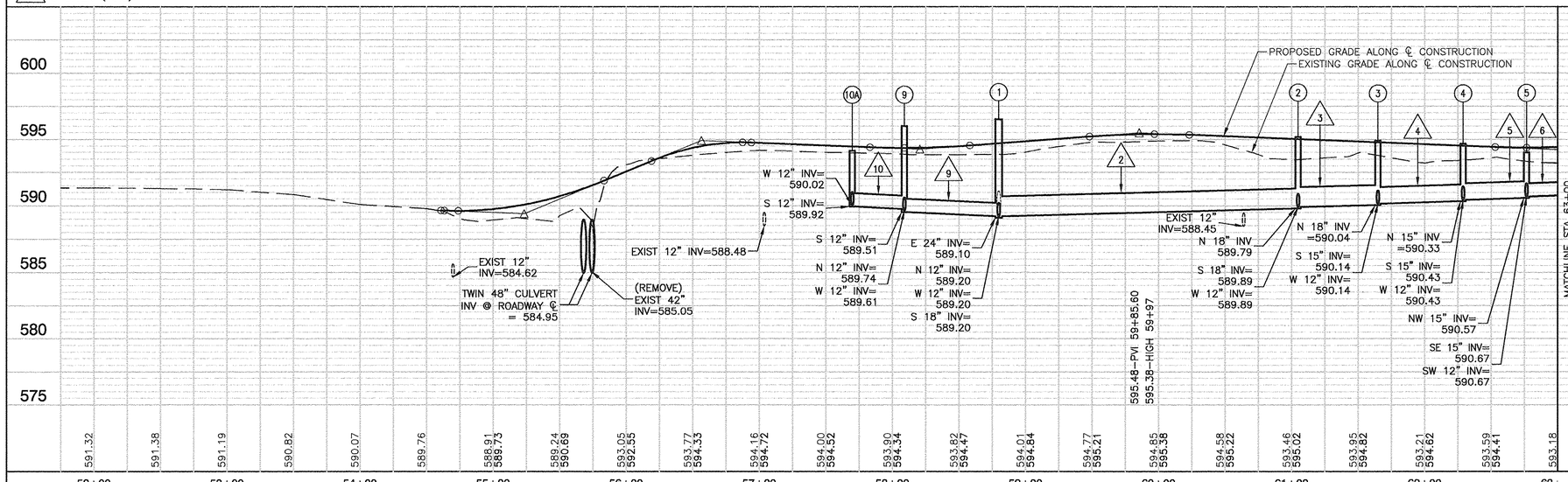
PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / QUANTITIES / NOTE BOOK / BY / DATE



EXISTING CONDITIONS



PROPOSED IMPROVEMENTS



0
STA 58+79.9, 74.5' LT
18" RCP FES
E 28" INV=589.00

1
STA 58+79.91, 29.54' LT
MH TA, 5' DIA, T1F CL
RIM EL=596.50
E 18" INV=589.10
S 18" INV=589.20
W 12" INV=589.20
N 12" INV=589.20

1A
STA 58+79.91, 21.33' LT
CB TA, 4' DIA, T11V F&G
RIM EL=594.37
E 12" INV=589.23
W 12" INV=589.33

1B
STA 58+79.91, 21.33' RT
INLET TA, 2' DIA, T11V F&G
RIM EL=594.37
E 12" INV=589.52

2
STA 61+04.91, 23.11' LT
MH TA, 4' DIA, T1F CL
RIM EL=595.17
N 18" INV=589.79
S 18" INV=589.89
W 12" INV=589.89

2A
STA 61+04.90, 14.89' LT
CB TA, 4' DIA, T11V F&G
RIM EL=594.70
E 12" INV=589.92
W 12" INV=590.02

2B
STA 61+04.90, 14.89' RT
INLET TA, 2' DIA, T11V F&G
RIM EL=594.70
E 12" INV=590.15

3
STA 61+64.91, 21.40' LT
MH TA, 4' DIA, T1F CL
RIM EL=594.89
N 18" INV=590.04
S 15" INV=590.14
W 12" INV=590.14

3A
STA 61+64.91, 13.19' LT
CB TA, 4' DIA, T11V F&G
RIM EL=594.49
E 12" INV=590.18
W 12" INV=590.28

3B
STA 61+64.91, 13.18' RT
INLET TA, 2' DIA, T11V F&G
RIM EL=594.49
E 12" INV=590.39

4
STA 62+28.94, 21.34' LT
MH TA, 4' DIA, T1F CL
RIM EL=594.66
N 15" INV=590.33
S 15" INV=590.43
W 12" INV=590.43

4A
STA 62+28.94, 13' LT
CB TA, 4' DIA, T11V F&G
RIM EL=594.24
E 12" INV=590.47
W 12" INV=590.57

4B
STA 62+28.94, 13' RT
INLET TA, 2' DIA, T11V F&G
RIM EL=594.24
E 12" INV=590.68

5
STA 62+76.59, 21.68' LT
MH TA, 4' DIA, T1F CL
RIM EL=594.00
NW 15" INV=590.57
SE 15" INV=590.67
SW 12" INV=590.67

5A
STA 62+76.59, 13' LT
CB TA, 4' DIA, T11 F&G
RIM EL=594.09
E 12" INV=590.72
W 12" INV=590.82

5B
STA 62+76.59, 13' RT
INLET TA, 2' DIA, T11 F&G
RIM EL=594.09
E 12" INV=590.94

9
STA 58+09.04, 31.56' LT
MH TA, 4' DIA, T1F CL
RIM EL=596.00
S 12" INV=589.51
W 12" INV=589.61
N 12" INV=589.74

9A
STA 58+09.04, 23.35' LT
CB TA, 4' DIA, T11 F&G
RIM EL=594.02
E 12" INV=589.65
W 12" INV=589.75

9B
STA 58+09.04, 23.35' IT
INLET TA, 2' DIA, T11 F&G
RIM EL=594.02
E 12" INV=589.95

10A
STA 57+69.91, 24.47' LT
CB TA, 4' DIA, T1F CL
RIM EL=594.12
S 12" INV=589.92
W 12" INV=590.02

10B
STA 57+69.91, 24.47' RT
INLET TA, 2' DIA, T1F F&G
RIM EL=594.12
E 12" INV=590.24

11A
STA 54+72.06, 29.74' RT
CB TA, 4' DIA, T11 F&G
RIM EL=589.10
(EX) E–W 12" INV=584.46
(INSTALL OVER EXIST PIPE)

11B
STA 54+67.48, 38.41' LT
CB TA, 4' DIA, T11 F&G
RIM EL=589.10
(EX) E–W 12" INV=584.78
(INSTALL OVER EXIST PIPE)

13A
STA 55+72.96, 51.4' RT
CAST–IN–PLACE REINFORCED CONCRETE END SECTION FOR DUAL (2) 48" PIPE CULVERTS – SEE DETAIL
W 48" INV=584.90

13B
STA 55+69.81, 44.9' LT
CAST–IN–PLACE REINFORCED CONCRETE END SECTION FOR DUAL (2) 48" PIPE CULVERTS – SEE DETAIL
E 48" INV=585.00

NOTES:

1. ALL OFFSETS AND ELEVATIONS TO CURB LINE STRUCTURES ARE GIVEN TO THE EDGE OF PAVEMENT. OFFSETS AND ELEVATIONS FOR FLARED END SECTIONS ARE GIVEN AT THE FLARED END. ALL OTHER OFFSETS AND ELEVATIONS ARE GIVEN TO THE CENTER OF THE STRUCTURE.
2. (XX.X) DENOTES CUBIC YARDS TRENCH BACKFILL.

FILE NAME = 07552_02-PLPR-01 - IDOT STRM01	USER NAME =	DESIGNED — TAG	REVISED —
		CHECKED — PKB	REVISED —
	PLOT SCALE =	DRAWN — RG	REVISED —
	PLOT DATE = 10-10-16	CHECKED — AG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

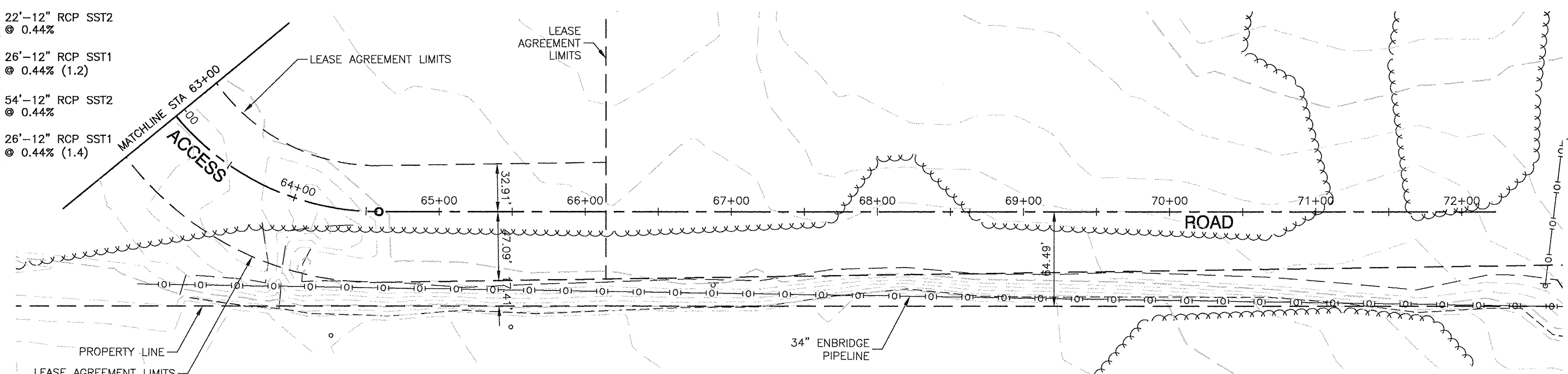
ROMEOVILLE METRA LOT
PROPOSED ACCESS ROAD
DRAINAGE & UTILITIES

SCALE: H 1"=50' V 1"=5' | SHEET NO. 18 OF 64 SHEETS | STA. | TO STA.

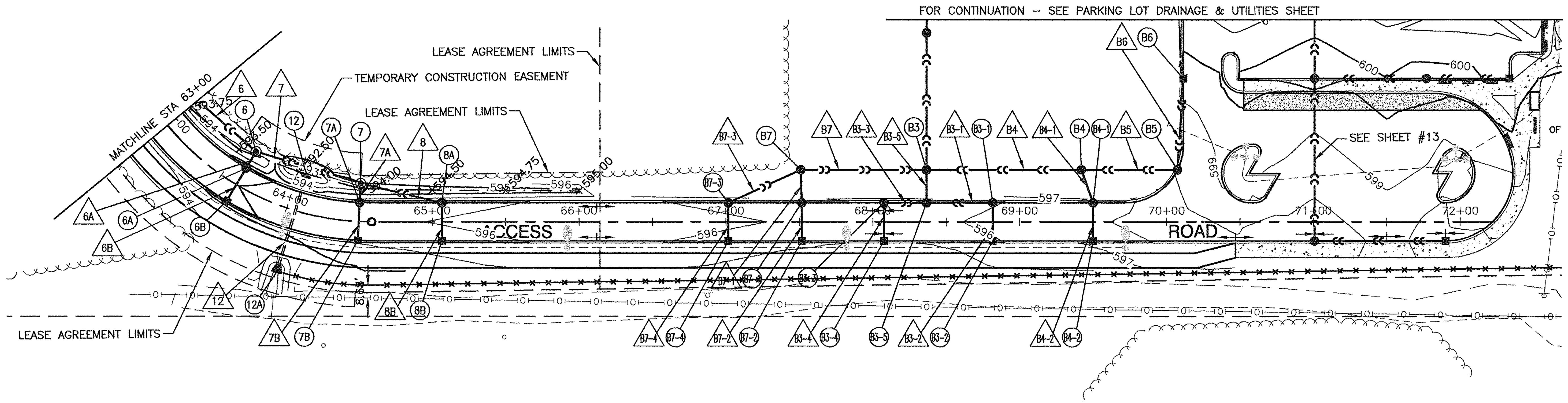
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	18
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

SECTION 2, TOWNSHIP 36, RANGE 10

- (6) 74'–12" RCP SST1 @ 0.44%
- (6A) 13'–12" RCP SST1 @ 0.44%
- (6B) 26'–12" RCP SST1 @ 0.44% (3.5)
- (7) 74'–12" RCP SST2 @ 0.44%
- (7A) 13'–12" RCP SST2 @ 0.44%
- (7B) 26'–12" RCP SST1 @ 0.44% (4.8)
- (8) 57'–12" RCP SST2 @ 0.44% (7.8)
- (8A) 11'–12" RCP SST1 @ 0.44%
- (8B) 26'–12" RCP SST1 @ 0.44% (4.4)
- (12) 60'–15" RCP CULVERTS T1 @ 0.50% (5.4)
- (B3–1) 45–12" RCP SST2 @ 0.44% (4.9)
- (B3–2) 26–12" RCP SST1 @ 0.44% (3.2)
- (B3–3) 29–12" RCP SST1 @ 0.45% (2.6)
- (B3–4) 26'–12" RCP SST1 @ 0.44% (1.9)
- (B3–5) 22'–12" RCP SST1 @ 0.45%
- (B4) 106'–12" RCP SST2 @ 1.50% (28.7)
- (B4–1) 24'–12" RCP SST1 @ 0.46%
- (B4–2) 26'–12" RCP SST1 @ 0.46% (1.2)
- (B5) 66'–12" RCP SST2 @ 1.50% (10.7)
- (B6) 62'–12" RCP SST1 @ 1.50% (10.1)
- (B7) 86'–12" RCP SST2 @ 0.44% (26.1)
- (B7–1) 22'–12" RCP SST2 @ 0.44%
- (B7–2) 26'–12" RCP SST1 @ 0.44% (1.2)
- (B7–3) 54'–12" RCP SST2 @ 0.44%
- (B7–4) 26'–12" RCP SST1 @ 0.44% (1.4)



EXISTING CONDITIONS



PROPOSED IMPROVEMENTS

(6) STA 63+62.05, 26.10' LT
MH TA, 4' DIA, T1F CL
RIM EL=594.71
W 12" INV=591.00
E 12 INV=591.10
S 12" INV=591.10

(6A) STA 63+62.05, 13' LT
CB TA, 4' DIA, T11V F&G
RIM EL=594.71
N 12" INV=591.16
S 12" INV=591.26

(6B) STA 63+62.05, 13' RT
INLET TA, 2' DIA, T11V F&G
RIM EL=594.71
N 12" INV=591.37

(7) STA 64+50.01, 26.07' LT
MH TA, 4' DIA, T1F CL
RIM EL=594.90
W 12" INV=591.43
E 12 INV=591.53
S 12" INV=591.53

(7A) STA 64+51.62, 13' LT
CB TA, 4' DIA, T11V F&G
RIM EL=595.57
N 12" INV=591.59
S 21" INV=591.69

(7B) STA 64+51.81, 13' RT
INLET TA, 2' DIA, T11V F&G
RIM EL=595.57
N 12" INV=591.80

(8A) STA 65+06.62, 13' LT
CB TA, 4' DIA, T11V F&G
RIM EL=595.78
W 12" INV=591.92
S 12" INV=592.02

(8B) STA 65+06.62, 13' RT
INLET TA, 2' DIA, T11V F&G
RIM EL=595.78
N 12" INV=592.14

(12) STA 64+06.3, 26' LT
15" RCP FES
N 15" INV=592.30

(12A) STA 64+05.9, 44' RT
15" RCP FES
S 15" INV=592.00

(B3) STA 68+36.45, 35.47' LT
CB TA, 5' DIA, T1F CL
RIM EL=597.50
N 18" INV=592.13
E 12" INV=592.23
S 12" INV=592.23
W 12" INV=592.23

(B3–1) STA 68+81.62, 13' LT
CB TA, 4' DIA, T11V F&G
RIM EL=595.94
W 12" INV=592.53
S 12" INV=592.55

(B3–2) STA 68+81.62, 13' RT
INLET TA, 2' DIA, T11V F&G
RIM EL=595.94
N 12" INV=592.67

(B3–3) STA 68+07.59, 13' LT
CB TA, 4' DIA, T11 F&G
RIM EL=595.47
E 12" INV=592.46
S 12" INV=592.49

(B3–4) STA 68+07.59, 13' RT
INLET TA, 2' DIA, T11 F&G
RIM EL=595.47
N 12" INV=592.60

(B3–5) STA 68+36.45, 13' LT
CB TA, 4' DIA, T11V F&G
RIM EL=595.54
N 12" INV=592.33
E 12" INV=592.33
W 12" INV=592.33

(B4) STA 69+41.95, 35.47' LT
CB TA, 4' DIA, T1F CL
RIM EL=597.50
W 12" INV=593.82
E 12" INV=593.92
SE 12" INV=593.92

(B4–1) STA 69+50, 13' LT
CB TA, 4' DIA, T11V F&G
RIM EL=596.83
NW 12" INV=594.03
S 12" INV=594.03

(B4–2) STA 69+50, 13' RT
INLET TA, 2' DIA, T11V F&G
RIM EL=596.83
N 12" INV=594.15

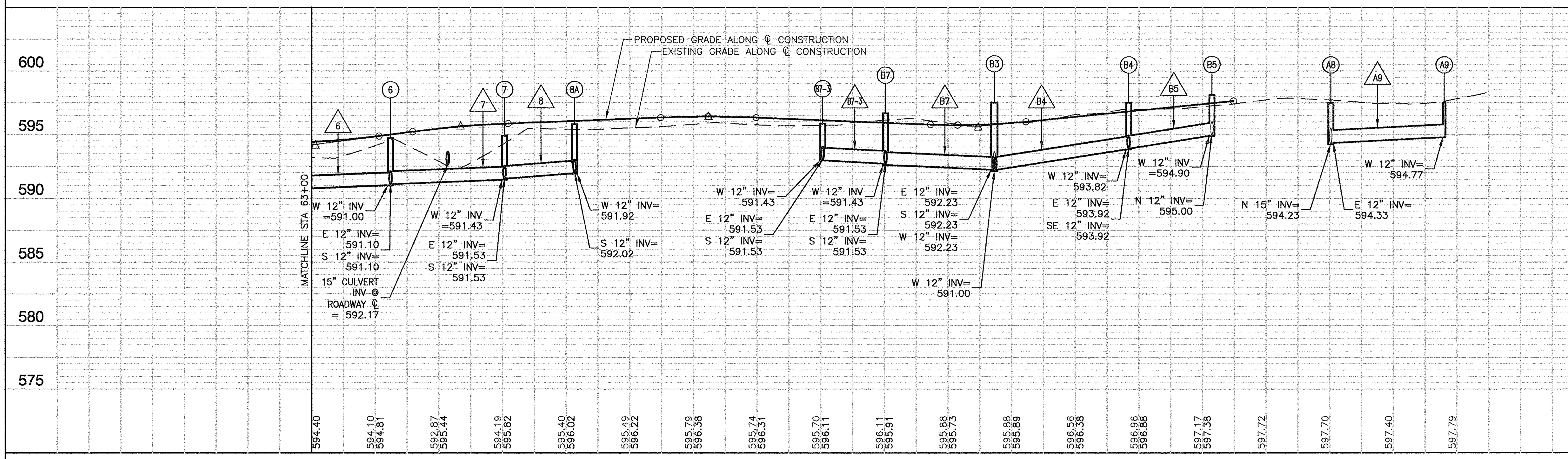
(B5) STA 70+07.40, 35.47' LT
CB TA, 4' DIA, T11V F&G
RIM EL=598.10
W 12" INV=594.90
N 12 INV=595.00

(B6) STA 70+11.45, 97.47' LT
INLET TA, 2' DIA, T11V F&G
RIM EL=599.55
S 12" INV=595.93

(B7) STA 67+50.90, 35.47' LT
CB TA, 5' DIA, T1F CL
RIM EL=596.65
E 12" INV=592.60
S 12" INV=592.70
SW 12" INV=592.70

(B7–1) STA 67+51.62, 13' LT
CB TA, 4' DIA, T11V F&G
RIM EL=595.65
N 12" INV=592.80
S 12" INV=592.90

(B7–2) STA 67+51.62, 13' RT
INLET TA, 2' DIA, T11V F&G
RIM EL=595.65
N 12" INV=593.01



(B7–3) STA 67+01.62, 13' LT
CB TA, 4' DIA, T11V F&G
RIM EL=595.84
NE 12" INV=592.94
S 12" INV=593.04

(B7–4) STA 67+01.62, 13' RT
INLET TA, 2' DIA, T11V F&G
RIM EL=595.84
N 12" INV=593.16

NOTES:

1. ALL OFFSETS AND ELEVATIONS TO CURB LINE STRUCTURES ARE GIVEN TO THE EDGE OF PAVEMENT. OFFSETS AND ELEVATIONS FOR FLARED END SECTIONS ARE GIVEN AT THE FLARED END. ALL OTHER OFFSETS AND ELEVATIONS ARE GIVEN TO THE CENTER OF THE STRUCTURE.
2. (XX.X) DENOTES CUBIC YARDS TRENCH BACKFILL.

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

PROFILE: NOTE BOOK — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED — BY — DATE

FILE NAME = 07552_02-PLPR-01 - IDOT STRM02	USER NAME =	DESIGNED — TAG	REVISED —
		CHECKED — PKB	REVISED —
	PLOT SCALE =	DRAWN — RG	REVISED —
	PLOT DATE = 10-10-16	CHECKED — AG	REVISED —

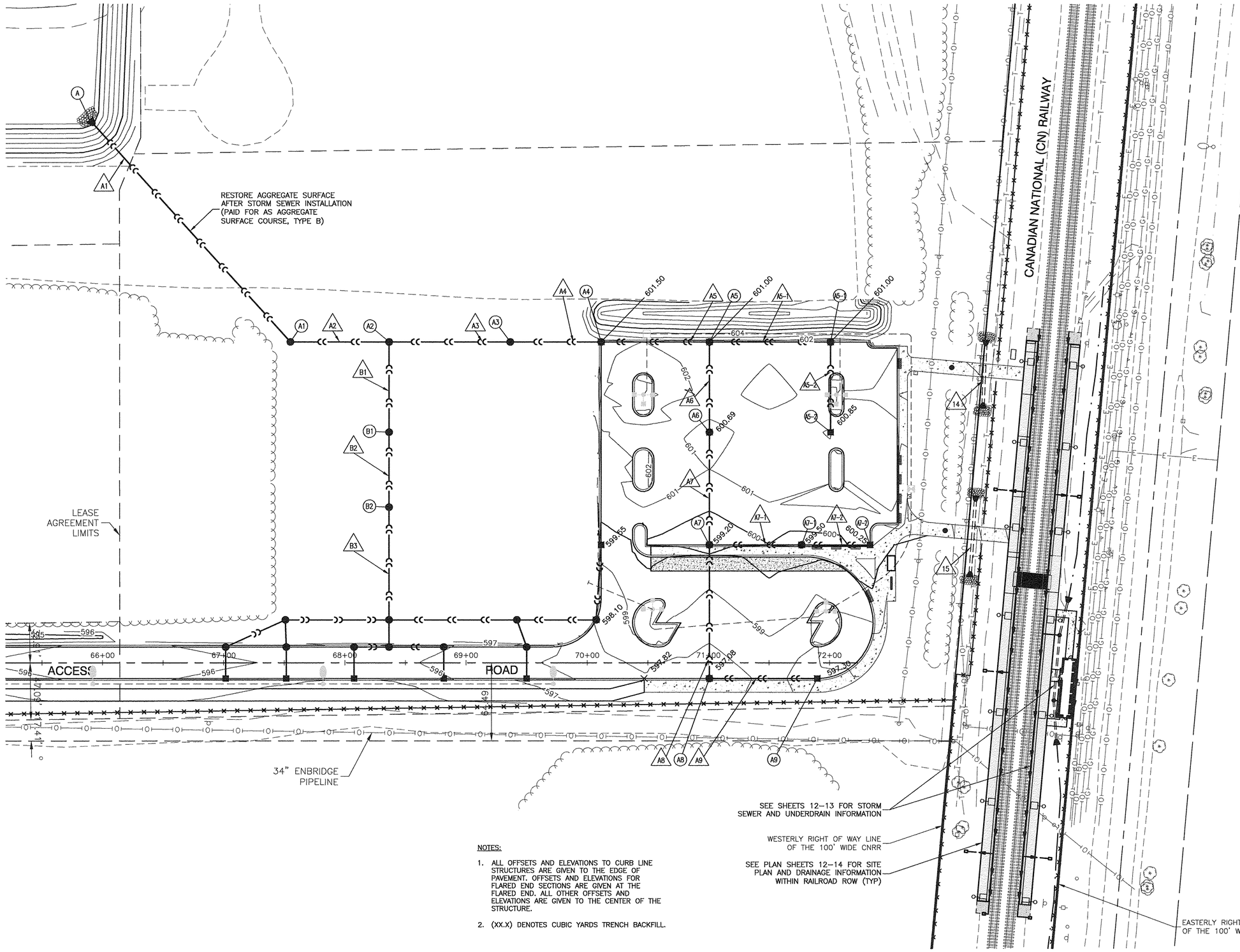
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROMEOVILLE METRA LOT
PROPOSED ACCESS ROAD
DRAINAGE & UTILITIES

SCALE: H 1"=50' V 1"=5' | SHEET NO. 19 OF 64 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	19
		CONTRACT NO. 61D08		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT CMM-9003(600)



NOTES:

1. ALL OFFSETS AND ELEVATIONS TO CURB LINE STRUCTURES ARE GIVEN TO THE EDGE OF PAVEMENT. OFFSETS AND ELEVATIONS FOR FLARED END SECTIONS ARE GIVEN AT THE FLARED END. ALL OTHER OFFSETS AND ELEVATIONS ARE GIVEN TO THE CENTER OF THE STRUCTURE.
2. (XX.X) DENOTES CUBIC YARDS TRENCH BACKFILL.

A
STA 59+08.73, 311.19' LT
30" RCP FES
NW 30" INV=589.00

A1
STA 67+54.95, 264.97' LT
CB TA, 5' DIA, T1F CL
RIM EL=599.00
NW 30" INV=589.99
E 30" INV=590.09

A2
STA 68+36.45, 264.97' LT
CB TA, 5' DIA, T1F CL
RIM EL=599.25
W 30" INV=590.58
E 24" INV=590.68
S 24" INV=590.68

A3
STA 69+36.45, 264.97' LT
CB TA, 4' DIA, T1F CL
RIM EL=599.75
W 24" INV=591.28
E 24" INV=591.38

A4
STA 70+11.45, 264.97' LT
CB TA, 4' DIA, T1F OL
RIM EL=601.50
W 24" INV=591.75
E 24" INV=591.85

A5
STA 71+00.79, 264.97' LT
CB TA, 4' DIA, T11 F&G
RIM EL=601.00
W 24" INV=592.30
E 15" INV=592.40
S 18" INV=592.40

A5-1
STA 72+00.79, 264.97' LT
CB TA, 4' DIA, T11 F&G
RIM EL=601.00
W 15" INV=594.40
S 12" INV=594.50

A5-2
STA 72+00.79, 190.47' LT
INLET TA, 2' DIA, T1F OL
RIM EL=600.85
N 12" INV=596.00

A6
STA 71+00.79, 190.47' LT
CB TA, 4' DIA, T1F OL
RIM EL=600.69
N 18" INV=592.77
S 15" INV=592.87

A7
STA 71+00.79, 97.47' LT
CB TA, 4' DIA, T11 F&G
RIM EL=599.20
N 15" INV=593.57
E 12" INV=593.67
S 15" INV=593.67

A7-1
STA 71+76.95, 97.47' LT
CB TA, 4 DIA, T11 F&G
RIM EL=599.50
W 12" INV=595.19
E 12" INV=595.29

A7-2
STA 72+30.95, 97.50' LT
INLET TA, 2' DIA, T1F OL
RIM EL=600.25
W 12" INV=596.40

A8
STA 71+00.79, 13' RT
CB TA, 4' DIA, T11 F&G
RIM EL=597.08
N 15" INV=594.23
E 12" INV=594.33

A9
STA 71+89.95, 13' RT
INLET TA, 2' DIA, T11 F&G
RIM EL=597.30
W 12" INV=594.77

B1
STA 68+36.45, 190.47' LT
CB TA, 4' DIA, T1F CL
RIM EL=599.25
N 24" INV=591.03
E 12" INV=591.13 (PLUG/FUTURE)
S 18" INV=591.13

B2
STA 68+36.45, 128.47' LT
CB TA, 4' DIA, T1F CL
RIM EL=598.65
N 18" INV=591.56
S 18" INV=591.66

A1 247'-30" RCP SST2 @ 0.40% (30)
A2 82'-30" RCP SST2 @ 0.60% (109.3)
A3 100'-24" RCP SST2 @ 0.60% (123.1)
A4 75'-24" RCP SST2 @ 0.50% (101.4)
A5 89'-24" RCP SST2 @ 0.50% (119.3)
A5-1 100'-15" RCP SST2 @ 2.00% (95.9)
A5-2 75'-12" RCP SST2 @ 2.00% (47.1)
A6 75'-18" RCP SST2 @ 0.50% (82.9)
A7 93'-15" RCP SST2 @ 0.75% (75.3)
A7-1 76-12" RCP SST2 @ 2.00% (24.7)
A7-2 56-12" RCP SST2 @ 2.00% (12.5)
A8 111'-15" RCP SST2 @ 0.50% (27.5)
A9 89'-12" RCP SST1 @ 0.50% (3.1)
B1 75'-24" RCP SST2 @ 0.47% (90.2)
B2 62'-18" RCP SST1 @ 0.70% (63.1)
B3 93'-18" RCP SST2 @ 0.50% (70.4)
14 47'-15" RCP CULVERTS T1 @ 1.78% N INV=600.00 15" RCP FES S INV=599.00 15" RCP FES
15 58'-15" RCP CULVERTS T1 @ 1.49% N INV=598.00 15" RCP FES S INV=597.00 15" RCP FES

N

FILE NAME = 07552_02-PLPR-01 - IDOT P02	USER NAME =	DESIGNED — TAG	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROMEOVILLE METRA LOT PROPOSED ACCESS ROAD DRAINAGE & UTILITIES - PARKING LOT	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED — PKB	REVISED —			282	10-00056-00-PK	WILL	64	20
	PLOT SCALE =	DRAWN — RG	REVISED —					CONTRACT NO. 61D08		
	PLOT DATE = 10-10-16	CHECKED — AG	REVISED —		SCALE: 1"=40' SHEET NO. 20 OF 64 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

SECTION 2, TOWNSHIP 36, RANGE 10

LEASE AGREEMENT LINE

LEASE AGREEMENT LINE

LEASE AGREEMENT LINE

LEASE AGREEMENT LINE

SOUTH DETENTION POND
(WETLAND BOTTOM W/ INFILTRATION TRENCHES)
T/B = 595.0
HWL = 594.0
NWL = 589.0
REQ. DET. VOL. = 8.50 AC-FT
PROV. DET. VOL. = 8.54 AC-FT

POND EXPANSION AREA
(AGGREGATE REMOVAL
TO BE PAID FOR AS
EARTH EXCAVATION)

4:1

4:1

4:1

RIPRAPPED OVERFLOW AREA

▽ H.W.L. 594.0

BOTTOM OF POND – ▽ N.W.L. 589.0

POND OUTLET

PROPOSED BERM

A

A

ACCESS

ROAD

54+00 55+00 56+00 57+00 58+00 59+00 60+00 61+00 62+00

600
595
590
585

EXISTING GROUND PROFILE ALONG NORTH/SOUTH LINE
OFFSET 200' LEFT OF PROPOSED ACCESS ROAD ℄ CONSTRUCTION

TOP OF EXIST. BERM 595.0

▽ H.W.L. 594.0

▽ N.W.L. 589.0
(WET BOTTOM)

MATCH EXISTING GROUND 596.0

CUT

7'

4:1

5:1

589.0

BOTTOM OF PROPOSED POND EXPANSION

SECTION A-A (THROUGH EXISTING DETENTION POND @ 200' EAST OF ACCESS ROAD)

FILE NAME = 07552_02-PLAN-01 - POND-1

USER NAME =	DESIGNED — DWS	REVISED —	
	CHECKED — PKB	REVISED —	
PLOT SCALE =	DRAWN — JJB	REVISED —	
PLOT DATE = 10-10-16	CHECKED — ACAD	REVISED —	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROMEOVILLE METRA LOT
PROPOSED ACCESS ROAD
DRAINAGE & UTILITIES DETENTION POND EXPANSION PLAN

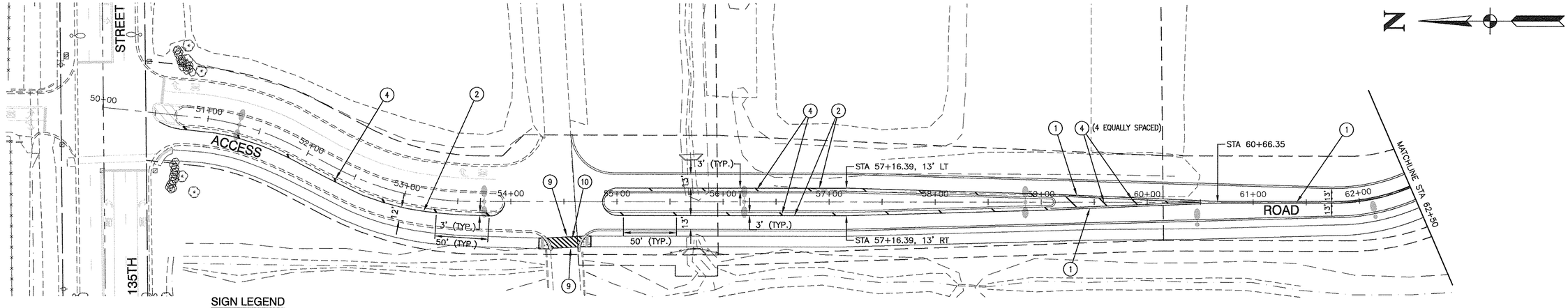
SCALE: H:1"=30' V:1"=6' | SHEET NO. 21 OF 64 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	21

CONTRACT NO. 61D08

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT CMM-9003(600)

SECTION 2, TOWNSHIP 36, RANGE 10



LEGEND

1. 4" DOUBLE YELLOW CENTERLINE (11' C/C)
2. 4" YELLOW MEDIAN OUTLINE (11' C/C)
3. 6" YELLOW PARKING LINE
4. 12" YELLOW DIAGONAL
5. HANDICAP ACCESSIBILITY SYMBOL
6. WHITE LETTERS & SYMBOLS
7. 24" WHITE STOP BAR
8. 6" WHITE SKIP DASH (2' LINE, 6' BLANK)
9. 6" WHITE LINES (12' CTR/CTR)
10. 12" WHITE DIAGONAL @45° (3' CTR/CTR)

PROPOSED SIGN

OVERHEAD PARKING NUMBERING POSTS FOR PARKING SPACE NUMBER SIGN WITH HANGING WIRES (SEE DETAIL)

(23) NUMBER OF PARKING SPACES IN ROW

SIGN LEGEND

(A) DO NOT ENTER — R5-1, 30"X30"

(B) Metra — BUS LANE, R7-107a, 12"X30"

(C) NO PARKING / PICK-UP AND DROP-OFF LANE — PASSENGER LANE, R7-107, 12"X18"

(D) RESERVED PARKING — R7-8, 12"X18"

VAN ACCCESSABLE — R7-8a, 12"X6"

$250 FINE — R7-1101, 12"X6"

XXX — 6"X6" PARKING NUMBERS

(E) STOP — R1-1, 30"X30"

(F) DAILY FEE PARKING — 12"X18"

(G) ALL DAY PARKING, PAY COIN BOX NEAR ENTRANCE, $1.50 — 18"X24"

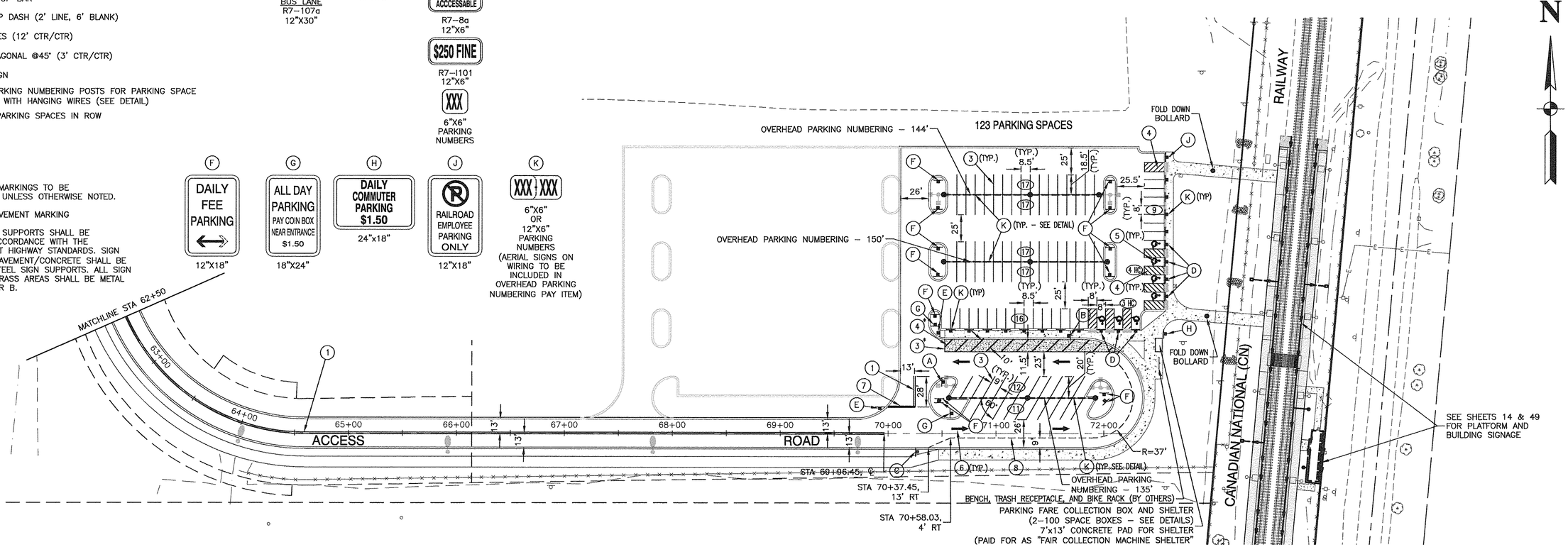
(H) DAILY COMMUTER PARKING $1.50 — 24"x18"

(J) RAILROAD EMPLOYEE PARKING ONLY — 12"X18"

(K) XXX / XXX — 6"X6" OR 12"X6" PARKING NUMBERS (AERIAL SIGNS ON WIRING TO BE INCLUDED IN OVERHEAD PARKING NUMBERING PAY ITEM)

NOTES:

1. ALL PAVEMENT MARKINGS TO BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
2. * POLYUREA PAVEMENT MARKING
3. ALL SIGNS AND SUPPORTS SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE IDOT HIGHWAY STANDARDS. SIGN SUPPORTS IN PAVEMENT/CONCRETE SHALL BE TELESCOPING STEEL SIGN SUPPORTS. ALL SIGN SUPPORTS IN GRASS AREAS SHALL BE METAL POST TYPE A OR B.



FILE NAME = 07552_02-PMKG-01 - IDOT MK-01	USER NAME =	DESIGNED — TAG	REVISED —
		CHECKED — PKB	REVISED —
	PLOT SCALE =	DRAWN — ACAD	REVISED —
	PLOT DATE = 10-10-16	CHECKED — ACAD	REVISED —

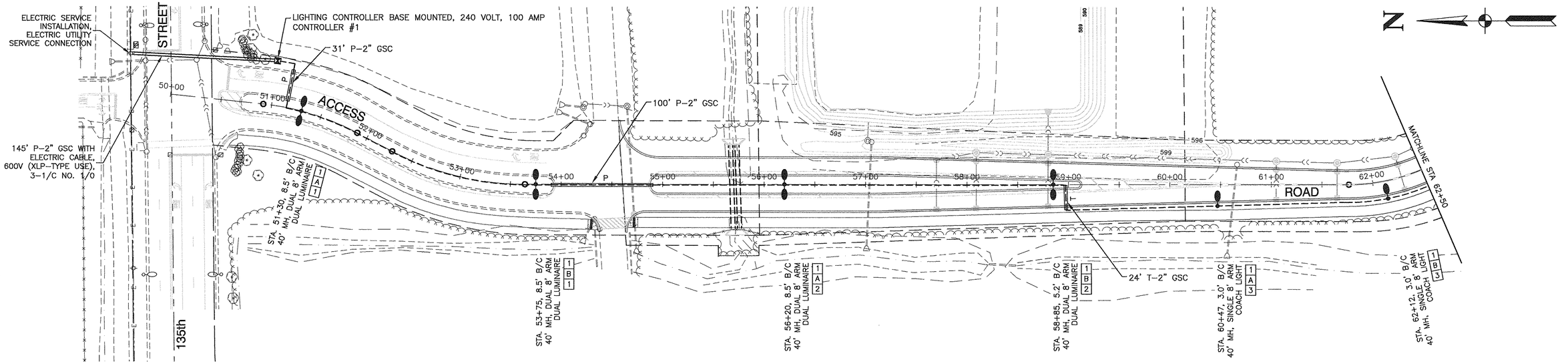
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROMEOVILLE METRA LOT
PROPOSED ACCESS ROAD
PAVEMENT MARKING & SIGNING PLAN

SCALE: 1"=50' | SHEET NO. 22 OF 64 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	22
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

SECTION 2, TOWNSHIP 36, RANGE 10

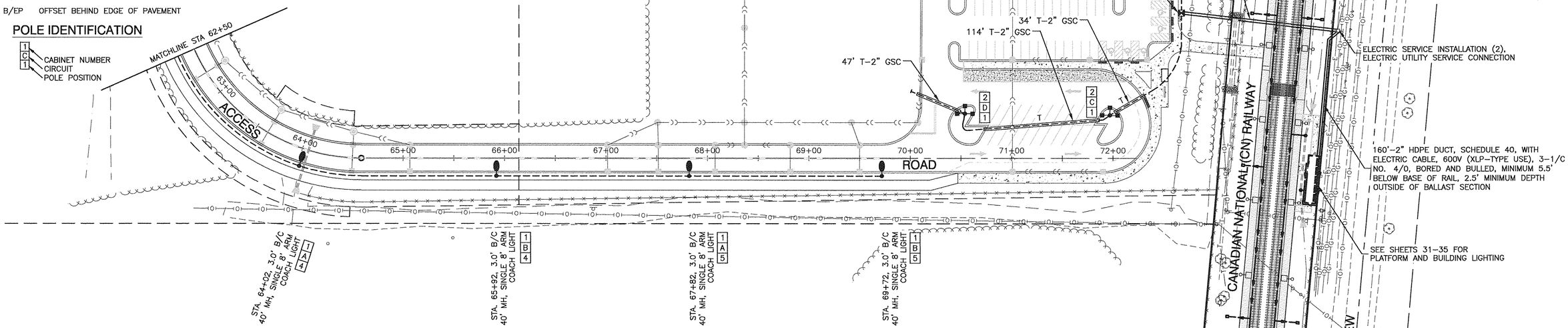


LEGEND:

- EXISTING VILLAGE STREET LIGHT
- EXISTING COMED STREET LIGHT
- PROPOSED STREET LIGHT
- PROPOSED AREA LIGHT
- PROPOSED HANDHOLE
- PROPOSED CONTROLLER
- COMED POLE FOR SERVICE
- P — CONDUIT, PUSHED, GALVANIZED STEEL
- T — CONDUIT, TRENCHED, GALVANIZED STEEL
- UNIT DUCT, 3-1/C, NO.4 AWG AND NO.6 GROUND, 600V IN 1-1/4" DUCT
- CAPPED RACEWAY FOR FUTURE EXPANSION
- (R) REMOVAL OF EXISTING STREET LIGHT
- (RO) REMOVAL OF EXISTING STREET LIGHT BY OTHERS
- B/C OFFSET FROM BACK OF CURB
- B/EP OFFSET BEHIND EDGE OF PAVEMENT

POLE IDENTIFICATION

1 C 1
- CABINET NUMBER
- CIRCUIT
- POLE POSITION



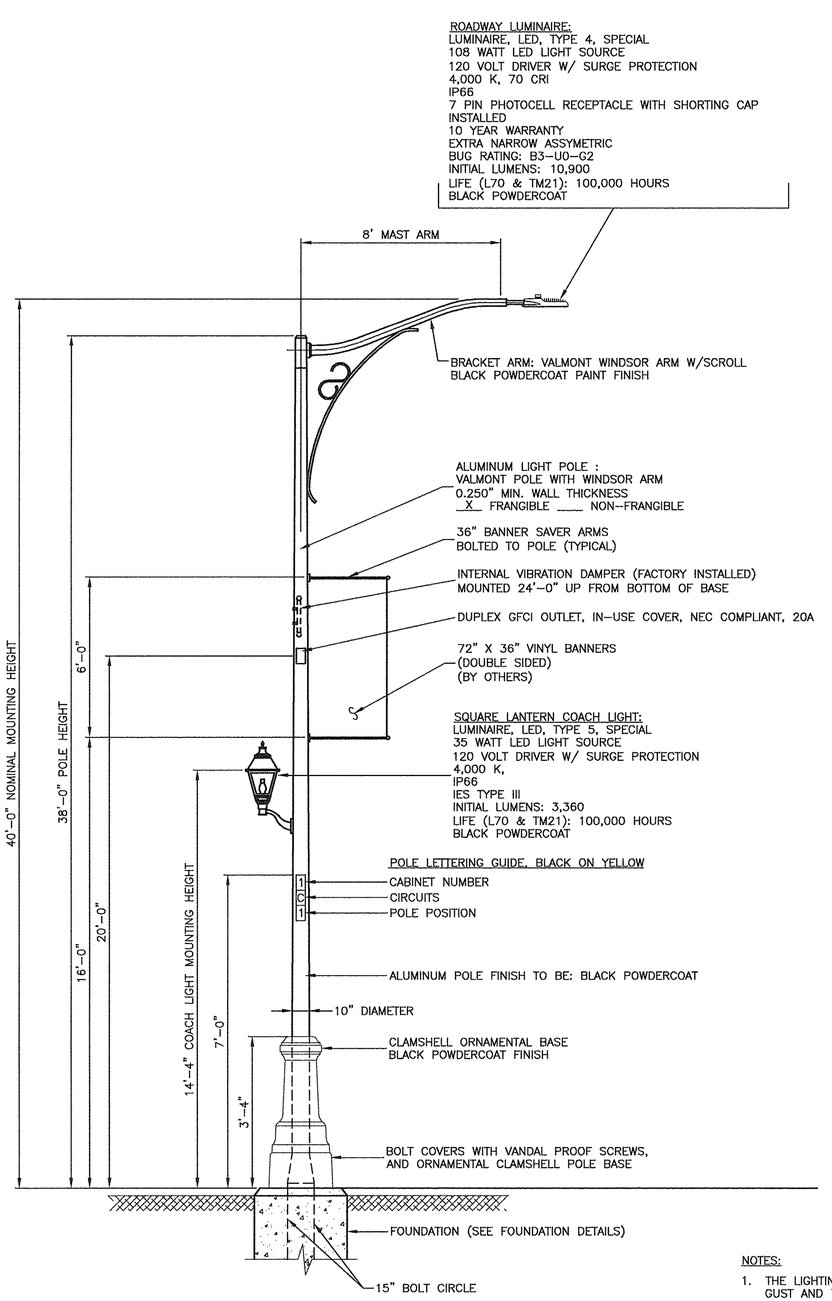
FILE NAME = 07552_02-LGHT-01 - IDOT LT-01	USER NAME =	DESIGNED — DWS	REVISED —
		CHECKED — PKB	REVISED —
	PLOT SCALE =	DRAWN — JJB	REVISED —
	PLOT DATE = 10-10-16	CHECKED — ACAD	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

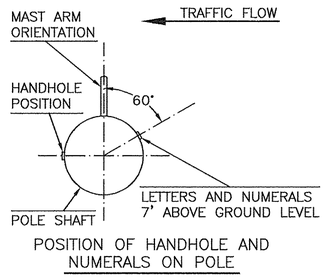
ROMEOVILLE METRA LOT
PROPOSED ACCESS ROAD
STREET LIGHTING PLAN

SCALE: 1"=50' | SHEET NO. 23 OF 64 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	23
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		



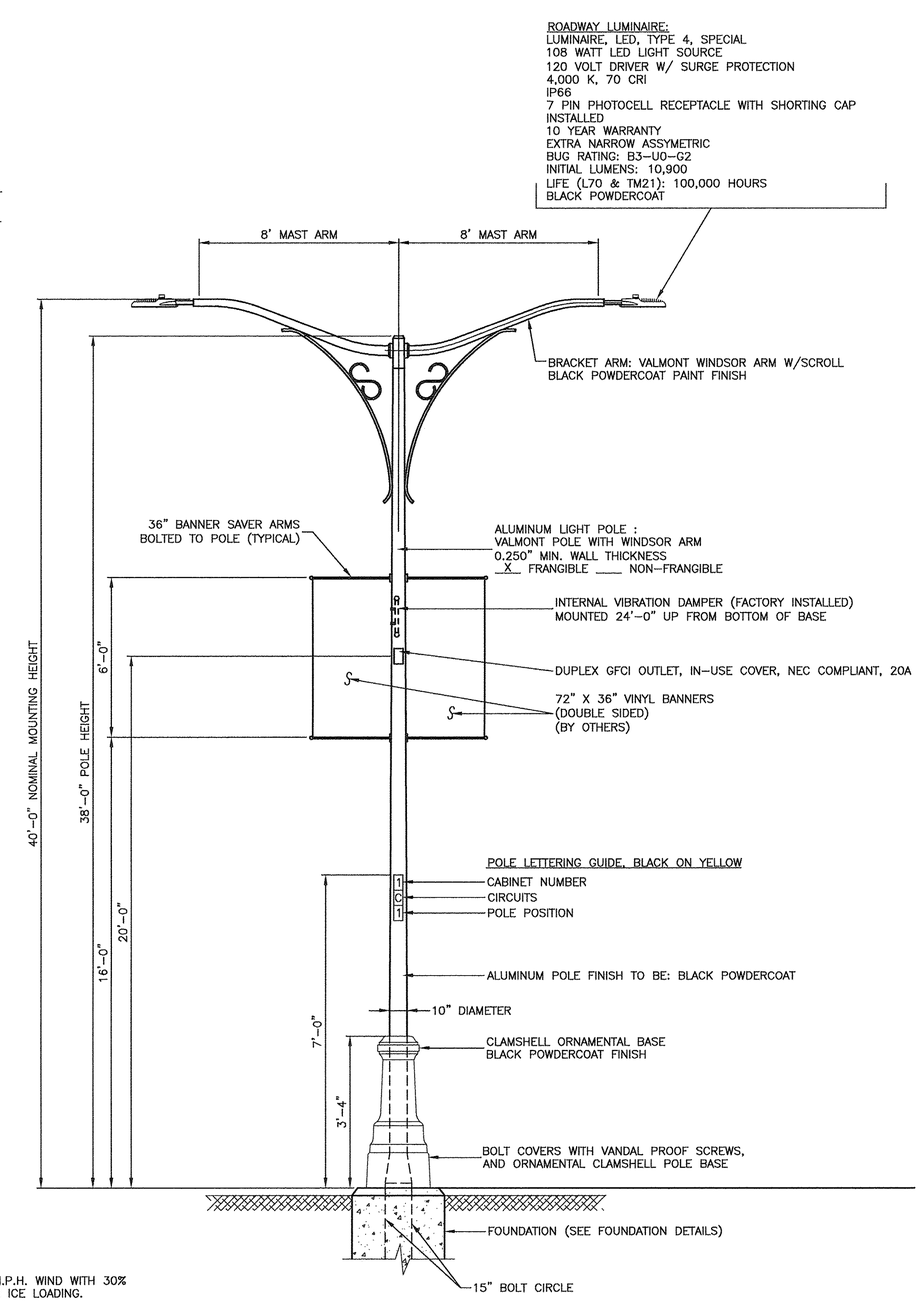
ROADWAY POLE INSTALLATION - SINGLE ARM



POSITION OF HANDHOLE AND NUMERALS ON POLE

NOTES:

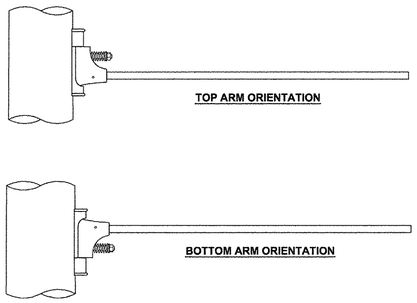
1. THE LIGHTING UNITS SHALL MEET AASHTO DESIGN CRITERIA. DESIGN FOR 90 M.P.H. WIND WITH 30% GUST AND 75 POUND LUMINAIRE HAVING AN E.P.A. OF 1.6 SQ.FT. AND PROPER ICE LOADING.
2. ALUMINUM ALLOY 6063–T6 SHALL BE USED.
3. ELECTRICAL COMPONENTS SHALL BE U.L. LISTED.



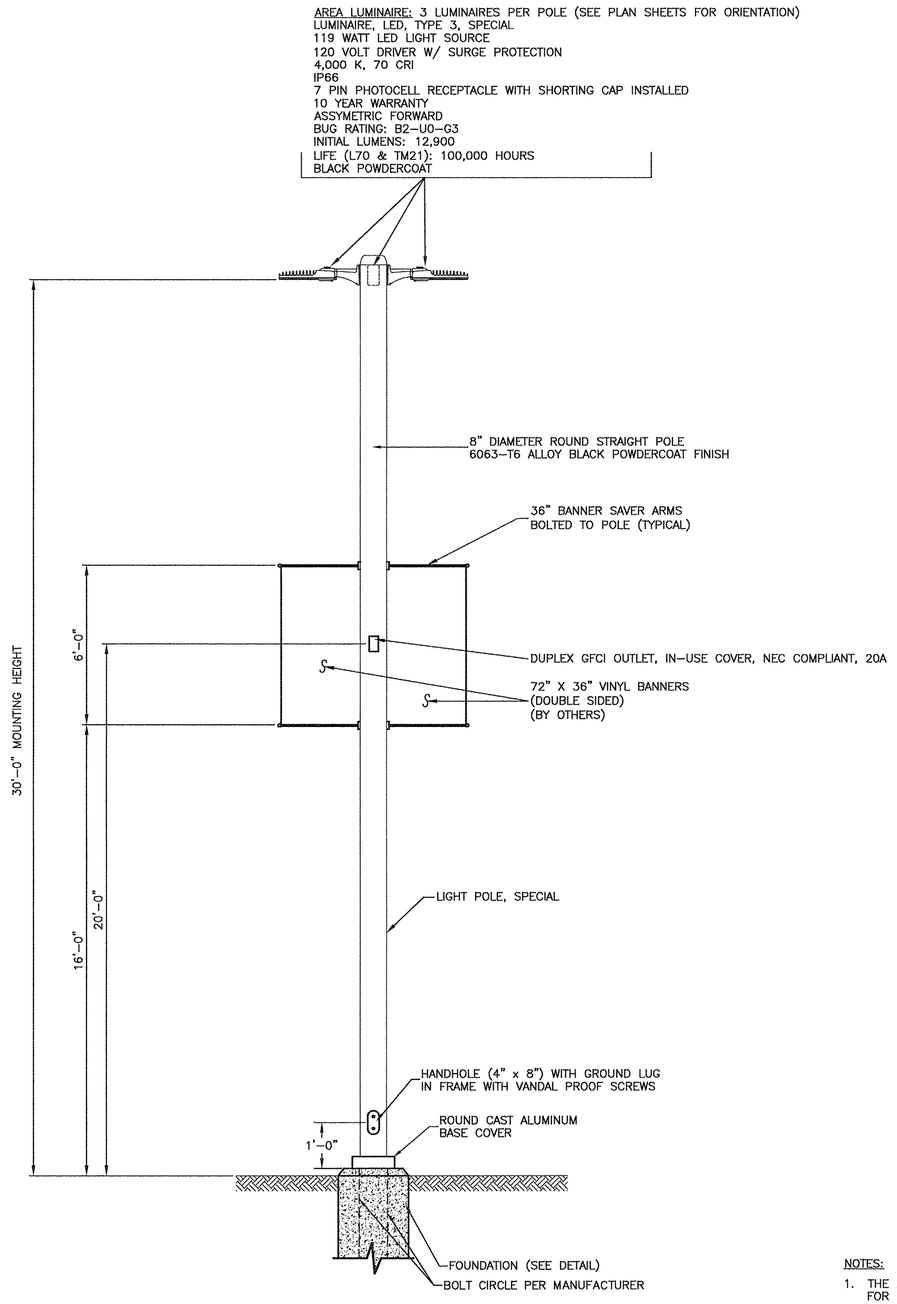
ROADWAY POLE INSTALLATION - DUAL ARM

FILE NAME = 07552_02-LGHT-02 - IDOT LT DTL-1	USER NAME =	DESIGNED — TAG	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROMEOVILLE METRA LOT PROPOSED ACCESS ROAD STREET LIGHTING DETAILS
		CHECKED — PKB	REVISED —		
	PLOT SCALE =	DRAWN — RG	REVISED —		
	PLOT DATE = 10-10-16	CHECKED — AG	REVISED —		SCALE: SHEET NO. 24 OF 64 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	24
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		



BANNER SAVER ARM DETAIL



AREA LIGHTS TYPICAL POLE INSTALLATION

NOTES:

1. THE LIGHTING UNITS SHALL MEET AASHTO DESIGN CRITERIA. DESIGN FOR 90 M.P.H. WIND WITH 30% GUST AND 75 POUND LUMINAIRE HAVING AN E.P.A. OF 1.6 SQ.FT. AND PROPER ICE LOADING.
2. ALUMINUM ALLOY 6063–T6 SHALL BE USED.
3. ELECTRICAL COMPONENTS SHALL BE U.L. LISTED.
4. POLES THAT RE NOT PROTECTED BY BARRIER CURB SHALL HAVE FOUNDATION EXPOSED 2.5' ABOVE FINAL GRADE.

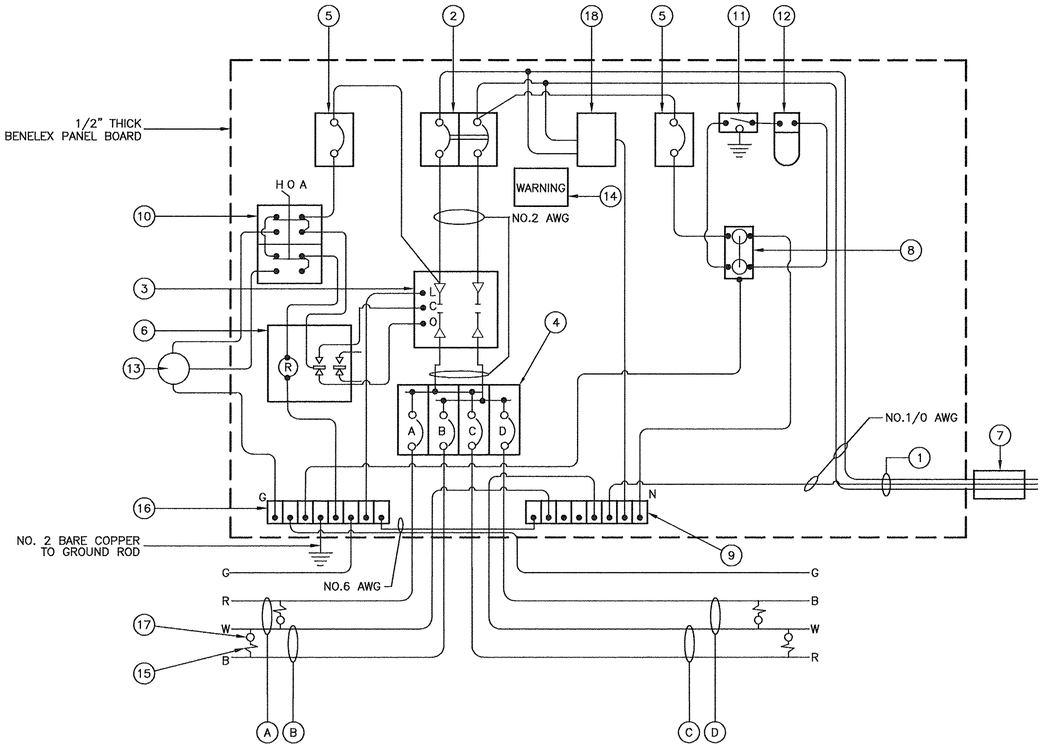
FILE NAME = 07552_02-LGHT-02 - IDOT LT DTL-2	USER NAME =	DESIGNED — TAG	REVISED —
		CHECKED — PKB	REVISED —
	PLOT SCALE =	DRAWN — RG	REVISED —
	PLOT DATE = 10-10-16	CHECKED — AG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

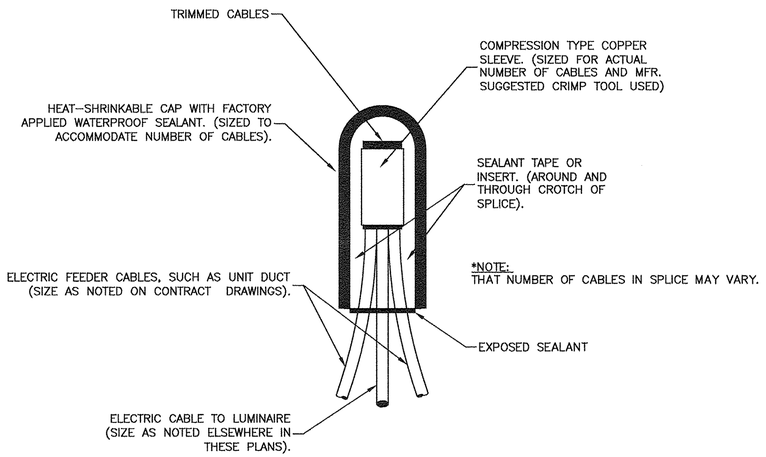
ROMEOVILLE METRA LOT
PROPOSED ACCESS ROAD
STREET LIGHTING DETAILS

SCALE: | SHEET NO. 25 OF 64 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	25
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		



CONTROLLER WIRING DIAGRAM



SPLICING ELECTRIC CABLES

CONTROLLER WIRING DIAGRAM LEGEND

(1) 3-1/C, NO. 1/0, 600V SERVICE WIRE IN 2" DIA. GALVANIZED STEEL CONDUIT FOR 120/240 VOLT, 1ø, 3 WIRE, 60HZ. SERVICE.

(2) (1) 100 AMP MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT, 100 AMP BASE, NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA - 14000 AMP AT 480 V.

(3) (1) 100 AMP REMOTE CONTROL CONTACTOR SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, 600 VOLT

(4) (4) 30 AMP CIRCUIT BREAKER, 1 POLE, 120 VOLT, 100 AMP BASE, NON-INTERCHANGEABLE TRIP RATING NEMA - 14000 AMP AT 240 VOLTS.

(5) (2) 20 AMP CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 120 VOLT, 100 AMP BASE, NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA 14000 AMP AT 240 V.

(6) (1) 20 AMP, 1 POLE DOUBLE THROW, 120 VOLT RELAY

(7) METER SOCKET, 1ø, 3 WIRE, 100A

(8) (1) 20 AMP, 120 VOLT DUPLEX GFCI RECEPTACLE MOUNTED IN BOX.

(9) NEUTRAL BUS BAR, 1/4"x1"x12" MINIMUM LENGTH MOUNTED ON PANEL WITH LUGS.

(10) 3 POSITION SELECTOR SWITCH, 120V.

(11) SWITCH FOR LIGHTING FIXTURE MOUNTED IN BOX, 20 AMP.

(12) WEATHER-PROOF LIGHTING FIXTURE WITH 1600 LUMEN, 120 V LED LAMP.

(13) PHOTOCELL MOUNTED TO CABINET, 120 V. 1000 VA BALLAST RATING, 1-4 FC ON 3-12 FC OFF, 30 SECOND MINIMUM DELAY.

(14) WARNING PLATE TO READ: WARNING, MAINTENANCE CIRCUIT IS LIVE WHEN MAIN BREAKER IS SWITCHED OFF

(15) IN-LINE FUSEHOLDER WITH FUSE AS NOTED IN FUSE TABLE

(16) GROUND BUS BAR 1/4"x1"x12" MINIMUM LENGTH MOUNTED ON PANEL WITH LUGS

(17) LUMINAIRE OR FESTOON OUTLET

(18) SURGE ARRESTER, UL LISTED, NEC 280 COMPLIANT, 1ø, 3 WIRE 60 HZ. MAX. 3,405 JOULES

(A) CIRCUIT (RED)

(B) CIRCUIT (BLACK)

(C) CIRCUIT (RED)

(D) CIRCUIT (BLACK)

GENERAL NOTES FOR CONTROL CABINET

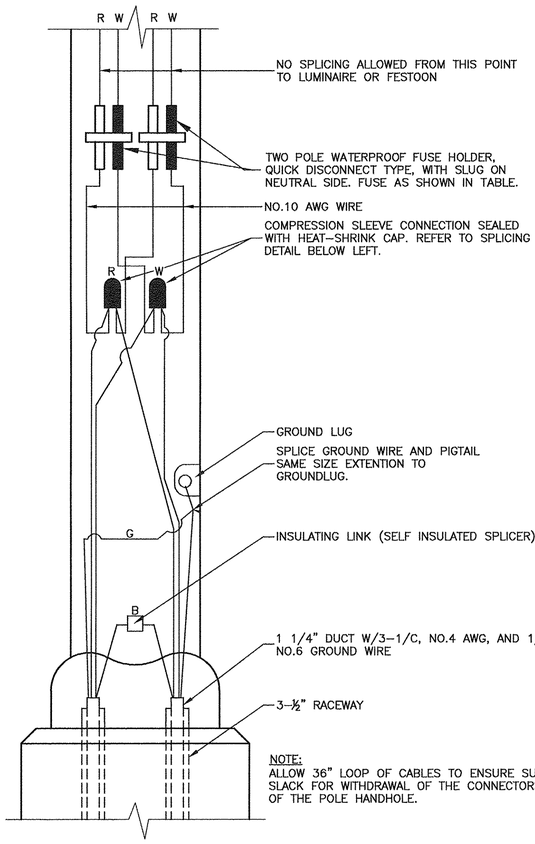
1. ENTIRE CONTROL CABINET SHALL BE GROUNDED.
2. ALL WIRING SHALL BE TAGGED WITH SELF-STICKING WIRE MARKERS.
3. GROUND BUS TO BE COLOR CODED GREEN, NEUTRAL BUS WHITE, AND BONDED TO CABINET ENCLOSURE, BY LISTED PRESSURE CONNECTORS OR LISTED CLAMPS.
4. ALL INTERNAL CONTROLLER WIRING TO BE NO.12 AWG UNLESS OTHERWISE SPECIFIED.
5. CABINET WIRING INSULATION TO BE TYPE XHHW OR APPROVED EQUAL.
6. THE CONTROLLER SHALL BE UL LISTED, NEMA 3R AND SUITABLE FOR USE AS SERVICE ENTRANCE

LIGHTING GENERAL NOTES

1. ALL WORK TO CONFORM TO THE MOST RECENT NATIONAL ELECTRICAL CODE AND ANY APPLICABLE LOCAL CODES.
2. CONTRACTOR TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES BEFORE TRENCHING OR AUGERING.
3. BEFORE INSTALLING STANDARDS NEAR OVERHEAD FACILITIES CALL C.E. Co. FOR APPROVAL OF LOCATION.
4. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE ESTABLISHMENT OF FINISHED GRADE. THE RESIDENT ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY COORDINATING THE FINISHED GRADE ELEVATION WITH THE TOP OF THE FOUNDATION HEIGHTS AND THE LIGHT SHALL REMAIN WITH THE CONTRACTOR.
5. NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, AS APPROVED BY THE ENGINEER.
6. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE REQUIREMENTS FOR WIRE MARKERS AND SHALL TAG ALL WIRE MARKERS AND SHALL TAG ALL WIRE ACCORDINGLY.
7. EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND BONDED AT EACH LIGHT POLE OR OTHER PIECE OF EQUIPMENT.
8. CONDUITS AND UNIT DUCTS MUST BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH TREES, BUSHES, DRAINS AND OTHER UTILITIES.

TYPE	FUSE SIZE
ROADWAY - SINGLE ARM/COACH LIGHT	4.0 AMP
ROADWAY - DUAL ARM	5.0 AMP
AREA LIGHT - DUAL ARM	5.0 AMP
AREA LIGHT - TRIPLE ARM	8.0 AMP
FESTOON OUTLET	4.0 AMP

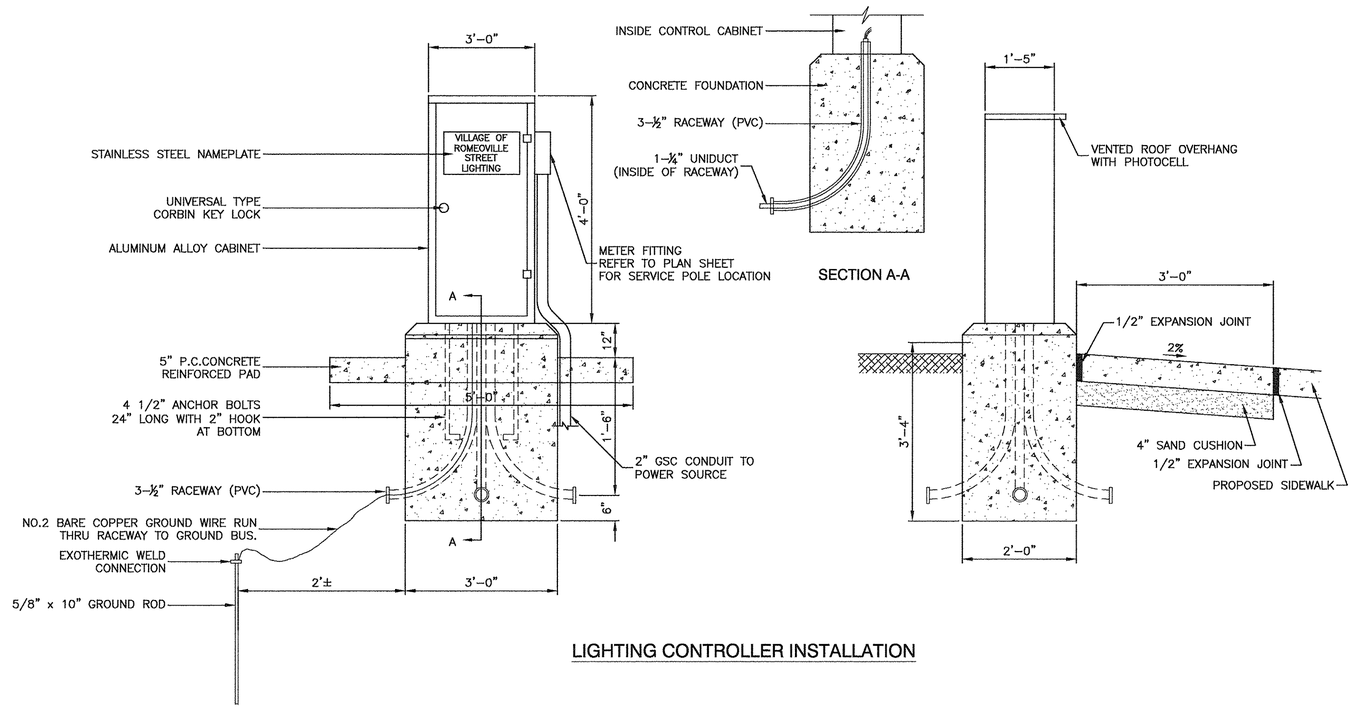
FUSE SIZE TABLE



POLE HANDHOLE WIRING DIAGRAM

(RED PHASE SHOWN)

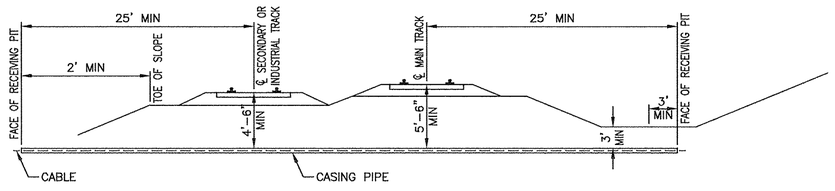
FILE NAME = 07552_02-LGHT-02 - IDOT LT DTL-3	USER NAME =	DESIGNED - DWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROMEOVILLE METRA LOT PROPOSED ACCESS ROAD STREET LIGHTING DETAILS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - PKB	REVISED -					282	10-00056-00-PK	WILL	64	26
	PLOT SCALE =	DRAWN - RG	REVISED -							CONTRACT NO. 61D08		
	PLOT DATE = 10-10-16	CHECKED - AG	REVISED -		SCALE:	SHEET NO. 26 OF 64 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		



LIGHTING CONTROLLER INSTALLATION

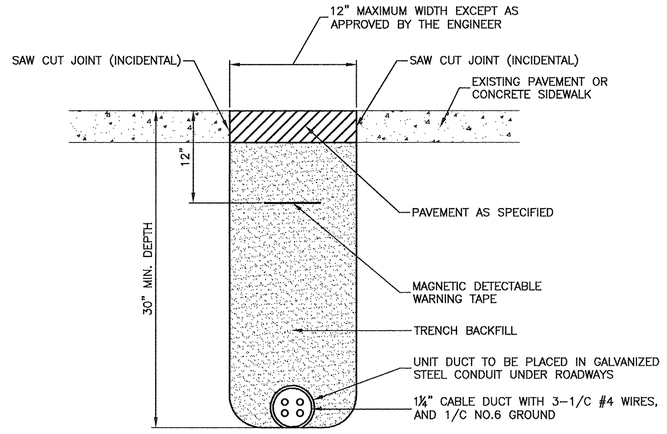
NOTE:

1. ORIENT CABINET SO DOOR OPENS AWAY FROM TRAFFIC OR PARKING AREA.
2. METER FITTING TO BE LOCATED ON THE SIDE OF THE CABINET CLOSEST TO SERVICE POLE.

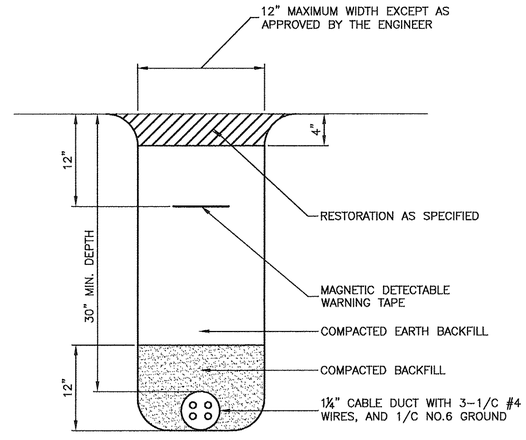


ALL MINIMUM DIMENSIONS MEASURED NORMAL TO ℄ OF OUTSIDE TRACK

CN RAILWAY CABLE CROSSING DETAIL

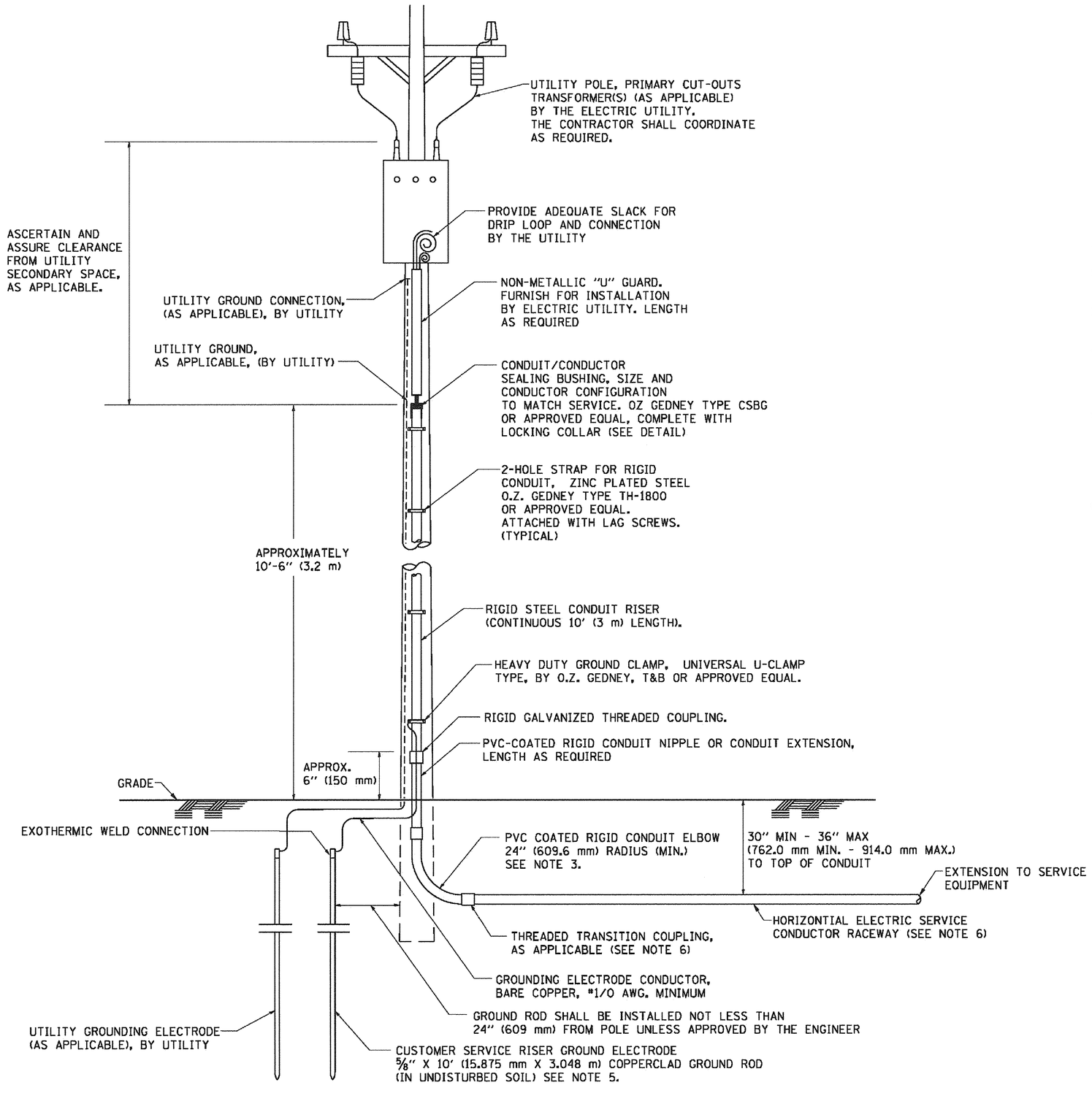


TRENCH DETAIL - PAVED AREAS



TRENCH DETAIL - UNPAVED AREAS

FILE NAME = 07552_02-LGHT-02 - IDOT LT DTL.4	USER NAME =	DESIGNED — TAG	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROMEOVILLE METRA LOT PROPOSED ACCESS ROAD STREET LIGHTING DETAILS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED — PKB	REVISED —			282	10-00056-00-PK	WILL	64	27
	PLOT SCALE =	DRAWN — RG	REVISED —					CONTRACT NO. 61D08		
	PLOT DATE = 10-10-16	CHECKED — AG	REVISED —		SCALE: SHEET NO. 27 OF 64 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

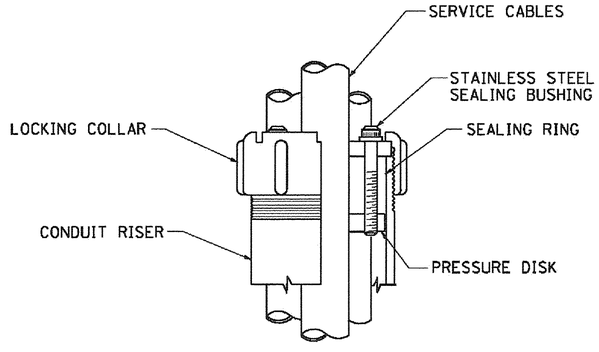


APPLICATION

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

NOTES

1. SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
2. UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
3. CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
4. PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
5. THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
6. THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
7. PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.

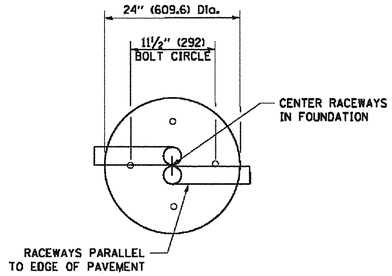


SEALING BUSHING DETAIL

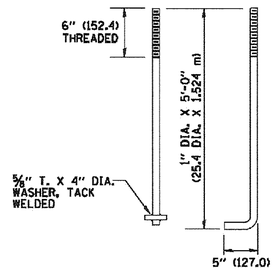
FILE NAME = 07552_02-LGHT-05 - P01	USER NAME = gaglionabt	DESIGNED —	REVISED — 03-03-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED —	REVISED —					282	10-00056-00-PK	WILL	63	28
	PLOT SCALE = 50.0000 ' / IN.	DRAWN — MEA	REVISED —						BE-220	CONTRACT NO. 61D08		
	PLOT DATE = 1/4/2008	CHECKED —	REVISED —		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

LIGHT POLE FOUNDATION DEPTH TABLE
30 FT. (9.144 m) TO 35 FT. (10.668 m) MOUNTING HEIGHT

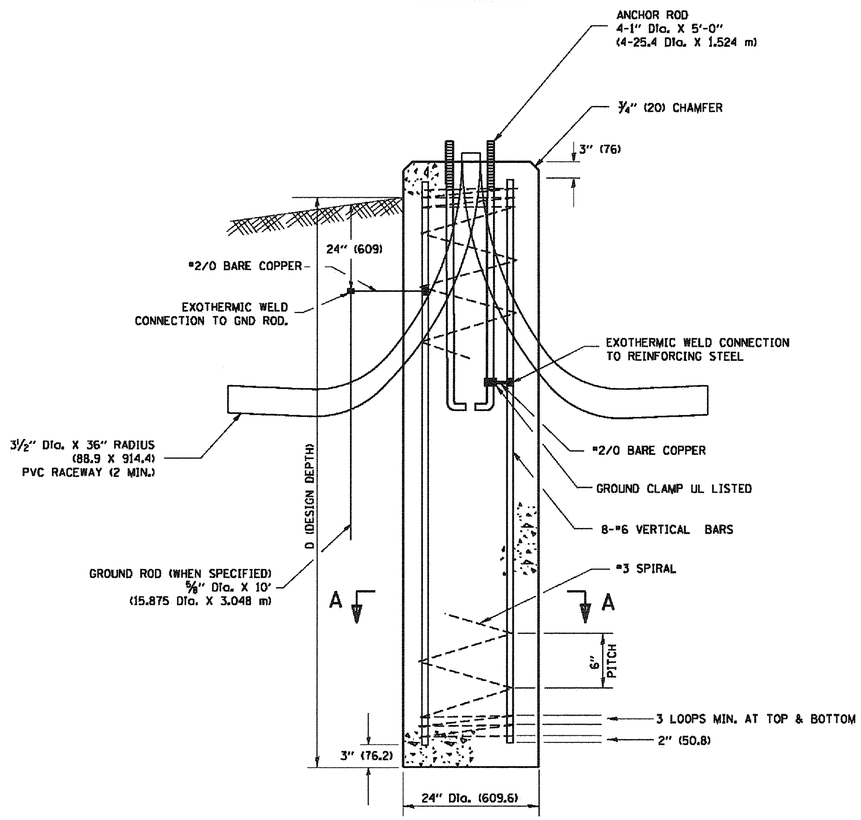
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SQ. FT.	11'-0" (3.35 m)	12'-8" (3.85 m)
MEDIUM CLAY Qu = 0.75 TON/SQ.FT	9'-0" (2.74 m)	14'-10" (4.52 m)
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-6" (2.29 m)	8'-7" (2.61 m)
LOOSE SAND Ø = 34°	9'-6" (2.90 m)	10'-7" (3.22 m)
MEDIUM SAND Ø = 37.5°	9'-0" (2.74 m)	9'-10" (2.99 m)
DENSE SAND Ø = 40°	8'-3" (2.51 m)	9'-7" (2.91 m)



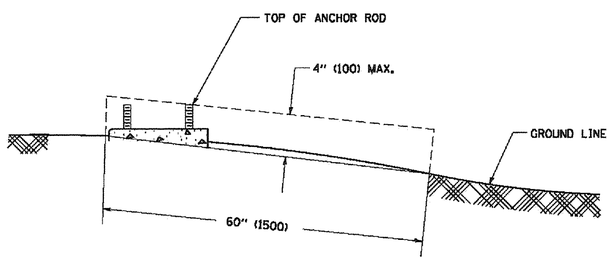
TOP VIEW



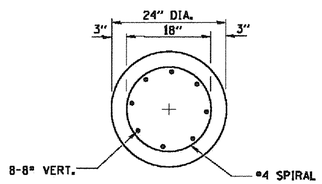
ANCHOR BOLT DETAIL



FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A

NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.
3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 4 IN. (100 mm) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
4. THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
5. THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED ¾-IN. (20 mm).
6. THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
7. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
8. THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
9. ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
10. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
11. ANCHOR RODS SHALL PROJECT 2¾" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
12. THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
14. THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

FILE NAME = 07552_02-LGHT-03 - P01	USER NAME = gaglianobt	DESIGNED —	REVISED —
		CHECKED —	REVISED —
	PLOT SCALE = 50.0000 ' / IN.	DRAWN —	REVISED —
	PLOT DATE = 1/4/2008	CHECKED —	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

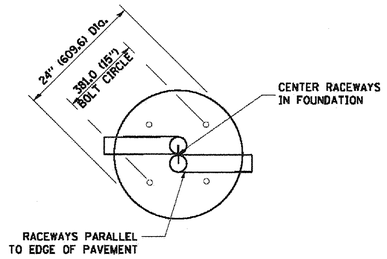
LIGHT POLE FOUNDATION
30' (9.144 m) TO 35' (10.668 m) M.H. 11 1/2" (292 mm) BOLT CIRCLE

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

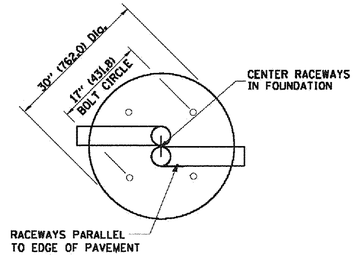
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	63	29
	BE-300	CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

LIGHT POLE FOUNDATION DEPTH TABLE
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SQ. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY Qu = 0.75 TON/SQ.FT	9'-6" (2.89 m)	10'-9" (3.23 m)
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND Ø = 34°	9'-0" (2.74 m)	10'-0" (3.05 m)
MEDIUM SAND Ø = 37.5°	8'-3" (2.52 m)	9'-0" (2.74 m)
DENSE SAND Ø = 40°	7'-9" (2.36 m)	9'-0" (2.74 m)

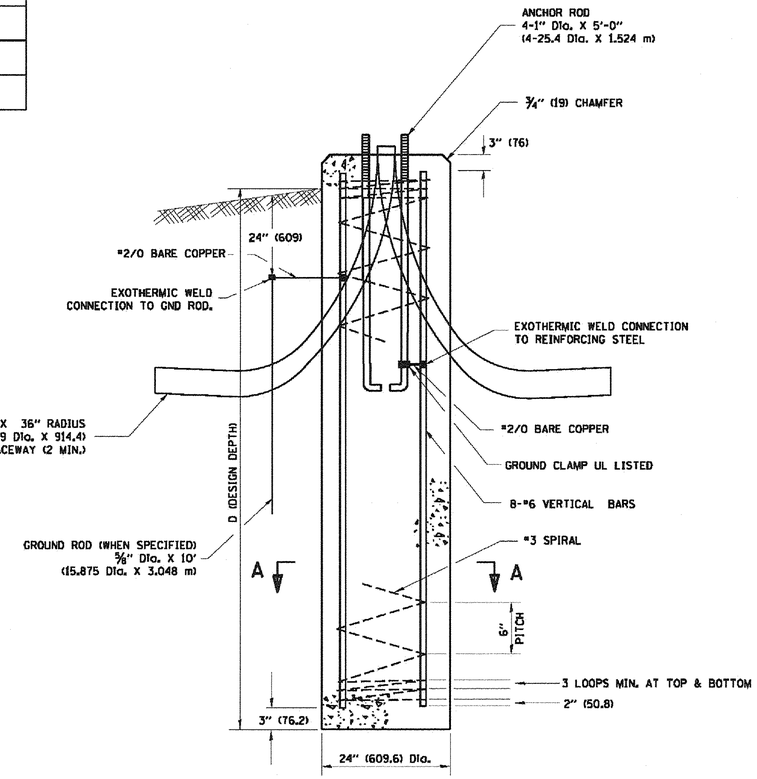


TOP VIEW

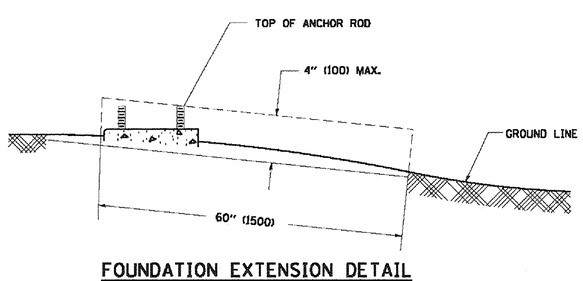


TOP VIEW

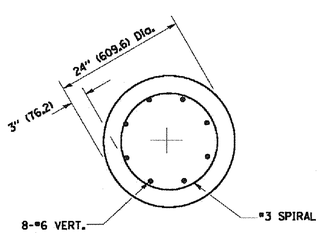
ANCHOR ROD DETAIL



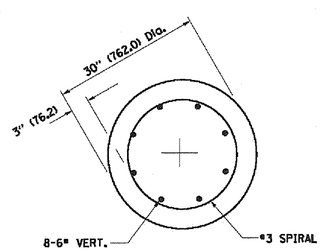
FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A



SECTION A-A

NOTES

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3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
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5. THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
6. THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
7. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
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14. THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

FILE NAME = 07552_02-LGHT-04 - P01 W:\dlststd\22x34\be301.dgn	USER NAME = gaglianobt	DESIGNED —	REVISED — 04-22-02
		CHECKED —	REVISED —
	PLOT SCALE = 50.0000 ' / IN.	DRAWN —	REVISED —
	PLOT DATE = 1/4/2008	CHECKED —	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION
40' (12.192 m) TO 47 1/2' (14.478 m) M.H. 15" (381 mm) BOLT CIRCLE

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	63	30
	BE-301	CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

SECTION 2, TOWNSHIP 36, RANGE 10

GENERAL SYMBOLS

- AHU 1 — EQUIPMENT CALL-OUT: REFER TO THE EQUIPMENT DATA SCHEDULE FOR DETAILS
- 1 — KEYED NOTE
- 1 — FEEDER CALL-OUT
- 1 — FOOD SERVICE EQUIPMENT DESIGNATION
- ROOM NAME (NO.) — ROOM NUMBER
- # — REVISION CALL-OUT
- NEW EQUIPMENT (TYPICAL)
- EXISTING EQUIPMENT (TYPICAL)
- DEMOLITION EQUIPMENT (TYPICAL)
- WALL MOUNT BRACKET (TYPICAL)

WIRING AND CONDUITS

- CONDUIT - CONCEALED IN SUSPENDED CEILING OR WALL
- CONDUIT - EXPOSED
- CONDUIT - CONCEALED BELOW SLAB OR GRADE
- CONDUIT - TURNING UP
- CONDUIT - TURNING DOWN
- CONDUIT - UP AND DOWN (CHANGE IN ELEVATION)
- CONDUIT - CONTINUED
- CONDUIT - FLEXIBLE
- CONDUIT - CAPPED
- SLEEVE
- J — JUNCTION BOX
- UJ — JUNCTION BOX - EMERGENCY POWER
- CONDUIT FITTING (CONDULET)
- EXPANSION FITTING
- SEALING FITTING
- CT CT — CABLE TRAY

POWER SYMBOLS

- BRANCH CIRCUIT PANELBOARD - SURFACE MOUNTED
- BRANCH CIRCUIT PANELBOARD - FLUSH MOUNTED
- DISTRIBUTION PANELBOARD OR SWITCHBOARD (DRAWN TO SCALE)
- T — TRANSFORMER (DRAWN TO SCALE)
- MOTOR CONTROL CENTER (DRAWN TO SCALE)
- CONTROL PANEL
- M — UTILITY KILOWATT-HOUR METER
- SAFETY SWITCH - NON-FUSIBLE
- F — SAFETY SWITCH - FUSIBLE
- MAGNETIC STARTER
- COMBINATION STARTER
- EQUIPMENT - MOTOR
- DUPLEX RECEPTACLE (NEMA 5-20R) - MOUNTED 18" A.F.F.
  - GFI GROUND FAULT CIRCUIT INTERRUPTER
  - GFIH HOSPITAL GRADE GROUND FAULT CIRCUIT INTERRUPTER
  - SS SURGE SUPPRESSOR (ISOLATED GROUND TYPE)
  - WP WEATHERPROOF
  - H HOSPITAL GRADE
  - TP TAMPER PROOF
  - D DEDICATED
- DUPLEX RECEPTACLE - MOUNTED 6" ABOVE COUNTER
- DUPLEX RECEPTACLE - SPLIT WIRED - MOUNTED 18" A.F.F.
- DUPLEX RECEPTACLE - EMEGENCY POWER - MOUNTED 18" A.F.F.
- DUPLEX RECEPTACLE - CEILING MOUNTED
- DUPLEX RECEPTACLE - FLOOR MOUNTED
- DOUBLE DUPLEX RECEPTACLE - MOUNTED 18" A.F.F.
- DOUBLE DUPLEX RECEPTACLE - FLOOR MOUNTED
- SINGLE RECEPTACLE - MOUNTED 18" A.F.F.
- SPECIAL PURPOSE RECEPTACLE - MOUNTED 18" A.F.F.
- SPECIAL PURPOSE RECEPTACLE - CEILING MOUNTED
- SPECIAL PURPOSE RECEPTACLE - FLOOR MOUNTED
- FB — FLOOR OUTLET
  - FB FLOOR BOX
  - PK FIRE-RATED POKE-THRU
- CEILING FAN
- H — HAND DRYER
- B — SHUNT-TRIP PUSH BUTTON WITH CLEAR LEXAN COVER

LIGHTING SYMBOLS

- A — LUMINAIRE TYPE
- LUMINAIRE - RECESSED
- 1LP-1a NL
  - CONNECTED FOR NIGHT LIGHT USE
  - CIRCUIT NUMBER AND SWITCH LEG (LUMINAIRES ARE CONTROLLED BY LOCAL SWITCH UNLESS DESIGNATION GIVEN)
  - PANEL NAME
- LUMINAIRE - SURFACE MOUNTED
- RECESSED LUMINAIRE CONNECTED TO THE EMERGENCY POWER SYSTEM OR BALLAST
- OPEN INDUSTRIAL FLUORESCENT
- OPEN INDUSTRIAL FLUORESCENT EMERGENCY POWER SYSTEM OR BALLAST
- RECESSED DOWNLIGHT - CEILING MOUNTED
- RECESSED DOWNLIGHT w/ EMERGENCY BALLAST - CEILING MTD.
- EXIT SIGN - SINGLE FACE, CEILING MOUNTED ARROW INDICATES DIRECTION OF EXIT
- EXIT SIGN - SINGLE FACE, WALL MOUNTED
- EXIT SIGN - DUAL FACE, CEILING MOUNTED
- EXIT SIGN - DUAL FACE, WALL MOUNTED
- POLE MOUNTED SITE LIGHTING - SINGLE HEAD
- POLE MOUNTED SITE LIGHTING - DUAL HEAD
- POLE MOUNTED SITE LIGHTING - TRIPLE HEAD
- POLE MOUNTED SITE LIGHTING - QUAD HEAD
- DECORATIVE PENDANTS
- PC — PHOTOCELL
- LC — LIGHTING CONTROLLER
- S^a — TOGGLE SWITCH - MOUNTED 48" A.F.F.
  - b LOWER CASE LETTER DENOTES LTG. SWITCH GROUP
  - 2 DOUBLE-POLE SINGLE-THROW (DPST)
  - 3 3-WAY
  - 4 4-WAY
  - B PUSHBUTTON
  - D DIMMER (WALL BOX TYPE)
  - K KEY OPERATED
  - M MANUAL MOTOR STARTER
  - P PILOT LIGHT
  - T TIMER
  - WP WEATHER PROOF
- S^{OC} — WALL BOX OCCUPANCY SENSOR
- S^{OC2} — WALL BOX OCCUPANCY SENSOR FOR TWO LEVEL SWITCHING
- OC_a — CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
  - a LOWER CASE LETTER DENOTES LTG. SWITCH GROUP
- DL_a — CEILING MOUNTED DAYLIGHT SENSOR
  - a LOWER CASE LETTER DENOTES LTG. SWITCH GROUP
- WALL MOUNTED LUMINAIRE

Electrical Platform Area Plan Symbols

Scale: No Scale

GENERAL NOTES:

A. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, ELEVATIONS, AND BUILDING DETAILS. VERIFY LOCATION OF ALL WALL OUTLETS, SWITCHES, ETC., WITH ARCHITECTURAL DRAWINGS AND ACTUAL CONDITIONS.

B. PRIOR TO ROUGH-IN AND FINAL CONNECTION, VERIFY ELECTRICAL CHARACTERISTICS AND EXACT LOCATION OF EQUIPMENT. THIS VERIFICATION SHALL BE DONE THROUGH THE ARCHITECT.

C. SEE MECHANICAL DRAWINGS FOR ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT, FOR WIRING AND CONTROL DIAGRAMS, AND FOR EXACT LOCATION OF EQUIPMENT.

D. COORDINATE SCHEDULE OF CONSTRUCTION WITH THE OWNER, OTHER TRADES AND UTILITIES INVOLVED BEFORE INSTALLATION OF UNDERGROUND FEEDERS, TRENCHING, ETC.

E. USE EXTREME CAUTION DURING EXCAVATION TO LOCATE EXISTING UNDERGROUND PIPING, CONDUITS, ETC. LOCATE AND PROTECT ANY BURIED UTILITIES IN AREAS OF EXCAVATION.

F. GROUT AND SEAL ALL CONDUIT PENETRATIONS OF WALLS AND FLOOR SLABS TO PRESERVE FIRE RATING AND WATERTIGHT INTEGRITY.

G. PROVIDE DEDICATED, GREEN INSULATED, EQUIPMENT GROUND CONDUCTOR IN ALL CONDUIT AND WIRING RUNS. SIZE EQUIPMENT GROUND CONDUCTOR IN ACCORDANCE WITH CURRENT EDITION OF NATIONAL ELECTRICAL CODE IN FORCE IN JURISDICTION.

H. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY, COORDINATE AND CONFIRM WITH THE MECHANICAL CONTRACTOR THE EXACT LOCATIONS: AND FEED REQUIREMENTS OF ALL EQUIPMENT NEEDING AN ELECTRICAL CONNECTION.

I. THE CONTRACTOR SHALL CONTACT AND OBTAIN FROM (COM ED) ALL INFORMATION, REQUIREMENTS, THEIR CONSTRUCTION DRAWINGS AND SPECIFICATIONS TO COMPLETE THE UNDERGROUND ELECTRICAL PRIMARY/SECONDARY SERVICE TO THIS PROJECT. INCLUDE IN BASE BID, BUT NOT LIMIT TO, TRENCHING, BACKFILL, TRANSFORMER CONCRETE PAD, CONTRIBUTION COSTS, ENGINEERING FEE AND SERVICE CHARGES FOR ALL ELECTRICAL SERVICES TO THIS PROJECT.

J. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ACTUAL LAYOUT OF LIGHT FIXTURES AND CEILING TYPES. VERIFY CEILING TYPES PRIOR TO ORDERING FIXTURES.

K. ALL LIGHT FIXTURES SHALL BE EQUIPPED WITH A GREEN GROUND WIRE BONDED TO THE HOUSING.

L. FINISH OF ALL LIGHTING FIXTURES IS SUBJECT TO ARCHITECT'S APPROVAL. SUBMIT SAMPLES IF REQURESTED.

M. ALL SELF-CONTAINED EMERGENCY BATTERY PACK EXITS AND LIGHT FIXTURES SHALL BE CIRCUITED TO THE SAME BRANCH LIGHTING CIRCUIT SERVING THE NORMAL LIGHTING IN THE AREA. THE CIRCUIT SHALL BE UNSWITCHED SO THAT THE BATTERY CHARGER IS CONTINUOUSLY BEING ENERGIZED DURING NORMAL POWER CONDITIONS. IF THE LIGHT FIXTURE IS SHOWN OR INDICATED AS BEING SWITCHED, THE LAMPS ONLY SHALL BE CONTROLLED BY THE SWITCHED CONDUCTOR(S).

N. THE ELECTRICAL CONTRACTOR SHALL BE HELD FINANCIALLY RESPONSIBLE FOR ANY AND ALL COSTS OF THE ENGINEERS TIME REQUIRED TO REVIEW AND RESEARCH NON-SPECIFIED EQUIPMENT SUBMITTED FOR SUBSTITUTION BY THE ELECTRICAL CONTRACTOR. THESE COSTS SHALL BE AUTOMATICALLY INVOICED TO THE CONTRACTOR UNLESS SUCH SUBSTITUTIONS FOLLOW THE GUIDELINES FOR SUBSTITUTION AND ARE WITHIN THE PROPER TIME FRAME AS OUTLINED IN OTHER SECTIONS OF THIS SPECIFICATION.

O. PROVIDE AND INSTALL IN EACH PANEL, TYPEWRITTEN NEAT TWO-COLUMN CIRCUIT INDEX CARD SET UNDER PLASTIC COVERS ON INSIDE OF DOORS. EACH ODD-NUMBERED CIRCUIT SHALL BE IN SEQUENCE ON ONE COLUMN AND THE EVEN-NUMBERED CIRCUITS ON THE OTHER COLUMN (E.G. 1,3,5...,2,4,6...). EACH CIRCUIT SHALL BE IDENTIFIED AS TO THE USE AND ROOM NAME(S) OR AREA(S). THE CONTRACTOR SHALL CONFIRM ROOM NAMES AND/OR ROOM NUMBERS WITH THE ARCHITECT PRIOR TO PROJECT COMPLETION.

P. PRIOR TO SUBMITTING BID PROPOSAL, BIDDER SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND VISIT CONSTRUCTION SITE TO BE FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.

Q. UNLESS INDICATED IN SOME MANNER THAT ELECTRICAL EQUIPMENT IS EXISTING ALL OTHER EQUIPMENT SHALL BE NEW.

R. CONTRACTOR SHALL NOT SCALE DRAWING FOR QUANTITIES. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL MEASUREMENTS.

GENERAL NOTES - CONDUIT AND WIRING:

A. WHERE CONDUIT AND WIRING RUNS ARE NOT SHOWN ON FLOOR PLANS, THE CONTRACTOR SHALL DETERMINE AND PROVIDE THE REQUIRED CONDUIT AND WIRING FOR SPECIFIED CIRCUITING IN ACCORDANCE WITH NEC AND THE FOLLOWING MINIMUM REQUIREMENTS:

1. MINIMUM CONDUIT SIZE SHALL BE 3/4".
2. MINIMUM POWER CONDUCTOR SIZE SHALL BE #12 AWG. #10 AWG SHALL BE USED FOR HOME RUNS OF 20 AMP BRANCH CIRCUITS OVER 100 FEET IN LENGTH.
3. EACH RACEWAY SHALL CONTAIN AN INSULATED EQUIPMENT GROUNDING CONDUCTOR PER NEC.
4. DERATING OF CONDUCTOR AMPACITY SHALL BE APPLIED PER NEC.
5. NO SHARING OF NEUTRALS ALLOWED. CIRCUIT SHALL HAVE DEDICATED NEUTRAL CONDUCTORS. ONE CIRCUIT, ONE NEUTRAL.

AC	ABOVE COUNTER	I/O	INPUT/OUTPUT
AFF	ABOVE FINISHED FLOOR	LAN	LOCAL AREA NETWORK
ATS	AUTOMATIC TRANSFER SWITCH	LFMC	LIQUID-TIGHT FLEXIBLE METAL CONDUIT
BC	BELOW CEILING	LP	LIGHTING PANEL
C	CONDUIT/CONDUCTOR	LS	LUMP SUM
CAM	CAMERA	MCC	MOTOR CONTROL CENTER
CB	CIRCUIT BREAKER	MCP	MOTOR CONTROL PANEL
CC	CONTROLS CONTRACTOR	MH	MANHOLE
CCTV	CLOSED CIRCUIT TELEVISION	NC	NURSE CALL
CCW	COUNTER CLOCKWISE	NL	NIGHT LIGHT
CW	CLOCKWISE	PA	PUBLIC ADDRESS
DCU	DISTRIBUTED CONTROL UNIT	PIR	PASSIVE INFRARED
DN	DOWN	PP	POWER PANEL
DP	DISTRIBUTION PANEL	PR	PAIR
DT	DUST-TIGHT	PVC	POLYVINYL CHLORIDE
DWG	DRAWING(S)	R	RECESSED
EC	ELECTRICAL CONTRACTOR	RF	RADIO FREQUENCY
ELEC	ELECTRIC/ELECTRICAL	RMC	RIGID METAL CONDUIT
EM	EMERGENCY	RNC	RIGID NON-METALIC CONDUIT (SCHD 40 PVC)
EMT	ELECTRICAL METALLIC TUBING	RT	RAINTIGHT
ER	EXISTING (TO BE) RELOCATED	SHLD	SHIELD(ED) (AS IN CABLE)
ETR	EXISTING TO REMAIN	SWBD	SWITCHBOARD
FA	FIRE ALARM	T	TELEPHONE
FMC	FLEXIBLE METAL CONDUIT	TBR	(EXISTING) TO BE REMOVED
FO	FIBER OPTIC	TYP	TYPICAL
FS	FUSIBLE SWITCH	UNG	UNGROUNDED
GF	GROUND FAULT	UPS	UNINTERUPTABLE POWER SUPPLY
GFI	GROUND FAULT CIRCUIT INTERRUPTER	VT	VAPOR-TIGHT
GND	GROUND/GROUNDING	WP	WEATHERPROOF
HH	HANHOLE	WT	WATER-TIGHT
IMC	INTERMEDIATE METAL CONDUIT	XP	EXPLOSION PROOF

Electrical Platform Area Abbreviations

Scale: No Scale

JAY D. EMAN
062-048824
LICENSED PROFESSIONAL ENGINEER
OF ILLINOIS

10/10/16
Expires 11/30/2017
For Sheets 31, 32, 33, 34, and 35

FILE NAME =	USER NAME =	DESIGNED - ZWC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROMEOVILLE METRA STATION PLATFORM AREA ELECTRICAL SYMBOLS AND GENERAL NOTES
		CHECKED - JDE	REVISED -		
	PLOT SCALE =	DRAWN - BPH	REVISED -		
	PLOT DATE = 10-10-2016	CHECKED - JDE	REVISED -		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	10-00056-00-PK	WILL	64	31
		CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

SCALE: | SHEET NO. 31 OF 64 SHEETS | STA. | TO STA.

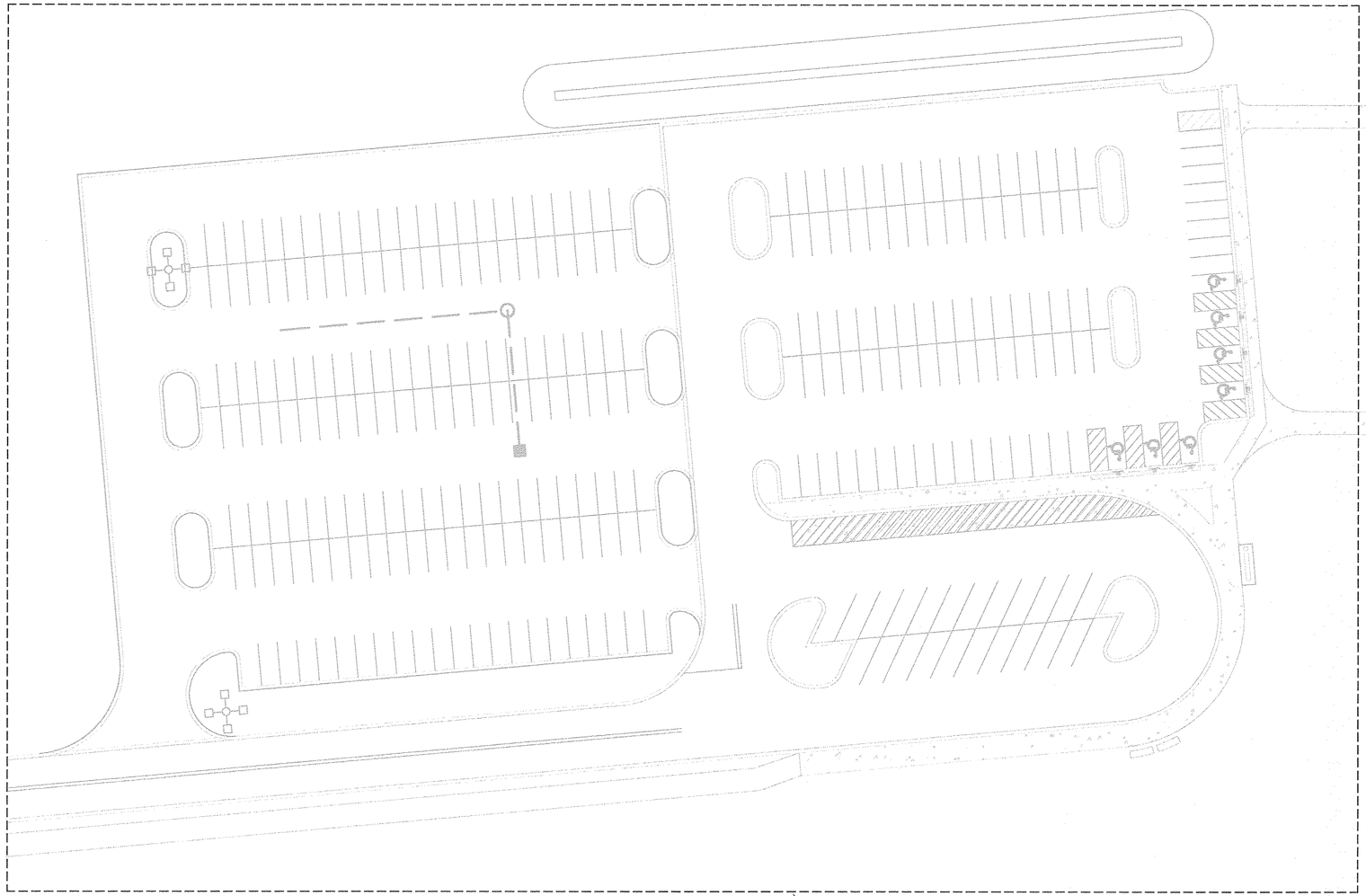
SECTION 2, TOWNSHIP 36, RANGE 10

General Notes

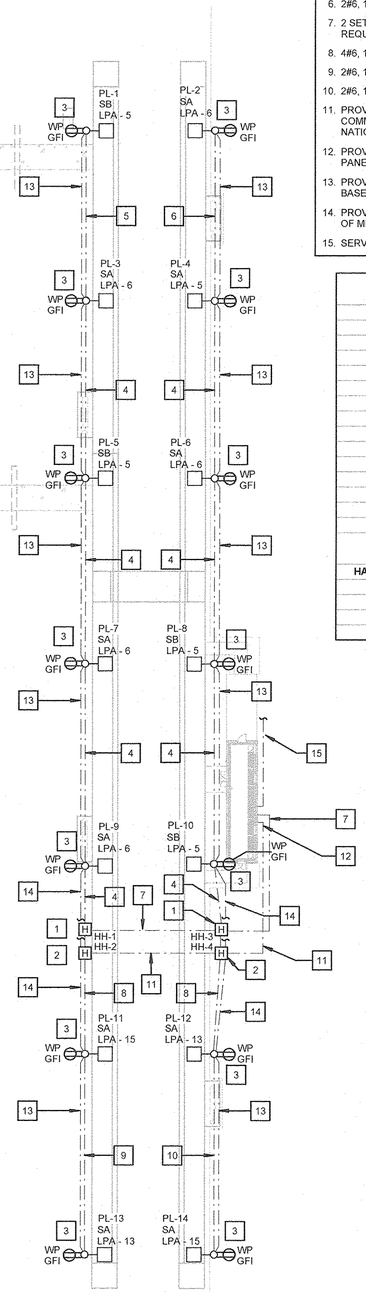
A. EXTERIOR LIGHTING CONTROLS: SEE LIGHTING CONTROL PANEL REMARKS.
B. ALL VOM CONDUITS TO BE GALVANIZED METAL PER METRA STANDARDS.

Keyed Notes

1. HANDHOLE FOR POWER CONDUCTORS AND CONDUIT CONNECTIONS.
2. HANDHOLE FOR COMMUNICATION CABLING.
3. POLE MOUNTED RECEPTACLE. SEE POLE MOUNTED DETAIL FOR FURTHER CLARIFICATION.
4. 4#6, 1#6G, 1"C FOR LPA-5,6
5. 2#6, 1#6G, 1"C FOR LPA-5
6. 2#6, 1#6G, 1"C FOR LPA-6
7. 2 SETS (4#6, 1#6G, 1"C) FOR LPA-5,6 AND LPA-13,15. COORDINATE DIRECTIONAL BORE REQUIREMENT WITH CANADIAN NATIONAL RAILROAD.
8. 4#6, 1#6G, 1"C FOR LPA-13,15
9. 2#6, 1#6G, 1"C FOR LPA-13
10. 2#6, 1#6G, 1"C FOR LPA-15
11. PROVIDE 1" EMPTY CONDUIT WITH PULL WITH FOR VOM (VOICE OF METRA) COMMUNICATIONS. COORDINATE DIRECTIONAL BORE REQUIREMENT WITH CANADIAN NATIONAL RAILROAD.
12. PROVIDE 1" EMPTY CONDUIT FROM HANDHOLE TO STUB UP TO BUILDING AND CAP. VOM PANEL FURNISHED BY METRA
13. PROVIDE 1" EMPTY CONDUIT FROM POLE BASE TO STUB UP TO THE FOLLOWING POLE BASE FOR VOICE OF METRA COMMUNICATIONS.
14. PROVIDE 1" EMPTY CONDUIT FROM HAND HOLE TO STUB UP TO POLE BASE FOR VOICE OF METRA COMMUNICATIONS.
15. SERVICE TO COM ED. SEE SHEET 23



SEE SHEETS 1-37 FOR WORK IN THIS AREA



PLATFORM LIGHTING COORDINATES

LIGHT NUMBER	NORTHING	EASTING
PL-1	1810768.694	1061881.172
PL-2	1810765.611	1061931.996
PL-3	1810701.783	1061876.941
PL-4	1810698.57	1061927.757
PL-5	1810631.699	1061872.353
PL-6	1810628.474	1061923.357
PL-7	1810556.531	1061867.784
PL-8	1810555.23	1061918.672
PL-9	1810478.77	1061862.766
PL-10	1810476.386	1061913.67
PL-11	1810412.25	1061858.56
PL-12	1810409.03	1061909.50
PL-13	1810325.398	106853.068
PL-14	1810322.17	1061904.114

HANDHOLE COORDINATES

HANDHOLE NUMBER	NORTHING	EASTING
HH-1	1810453.278	1061861.171
HH-2	1810444.295	1061860.603
HH-3	1810449.85	1061915.371
HH-4	1810440.912	1061914.112

Electrical Platform Area Site Plan

Scale: 1" = 30'-0"

0 15 30 60 NORTH

FILE NAME =	USER NAME =	DESIGNED - ZWC	REVISED -
		CHECKED - JDE	REVISED -
	PLOT SCALE =	DRAWN - BPH	REVISED -
	PLOT DATE = 10-10-2016	CHECKED - JDE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROMEOVILLE METRA STATION
PLATFORM AREA
ELECTRICAL SITE PLAN

SCALE: | SHEET NO. 32 OF 64 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	10-00056-00-PK	WILL	64	32
		CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

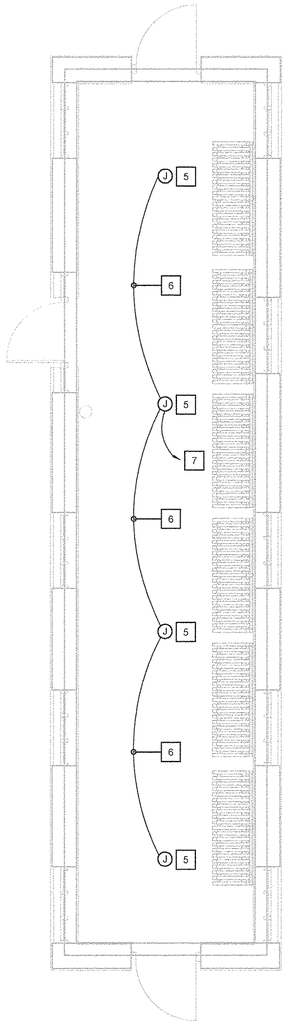
SECTION 2, TOWNSHIP 36, RANGE 10

General Notes

A. INTERIOR LIGHTING CONTROLS: SEE LIGHTING CONTROL PANEL REMARKS

Keyed Notes

1. 2#12, 1#12G, 3/4"C
2. 2#12, 1#12G, 3/4"C TO LIGHTING PANEL VIA LIGHTING CONTROLS & LRP.
3. MOUNT DAYLIGHT SENSOR AND OCCUPANCY SENSOR ON NEAREST BEAM CENTERED IN SPACE. COMBINATION OCCUPANCY SENSOR/DAYLIGHT SENSORS ARE ACCEPTABLE.
4. 4" SQUARE CAST BOX FOR POWER TO VOICE OF METRA BOX, LEAVE 12" PIG TAILS IN BOX.
5. MOUNT 4" SQUARE JUNCTION BOX TO BOTTOM OF TRUSS FOR "VOICE OF METRA" (VOM) SPEAKER (BY METRA)
6. 1" EMT CONDUIT WITH PULL WIRE FOR VOM CABLING (CABLE BY OTHER).
7. 1" EMT CONDUIT WITH PULL WIRE TO LOCATION OF FUTURE VOM PANEL (SEE NOTE 4 ABOVE) CAP AT LOCATION OF PANEL.
8. 1#2 BARE COPPER GND TO 3/4" x 10' DRIVEN GROUND ROD
9. MOUNT METER ON BUILDING NEXT TO PANEL BOARD
10. SERVICE FEEDER TO COMMONWEALTH EDISON POLE, SEE SHEET 23.

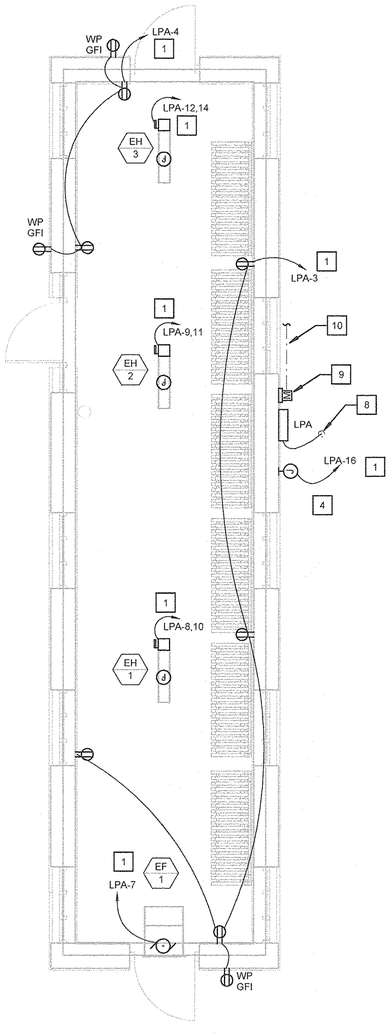


PAYCODE ITEM NOTE: ALL EQUIPMENT SHOWN ON THIS PLAN SHALL BE PAID FOR ON A PAYCODE ITEM XX003615, "POWER SYSTEMS COMPLETE, TRAIN STATION INTERIOR"

3 Platform Area Systems Plan

Scale: 1/4" = 1'-0"

0 2 4 8 NORTH

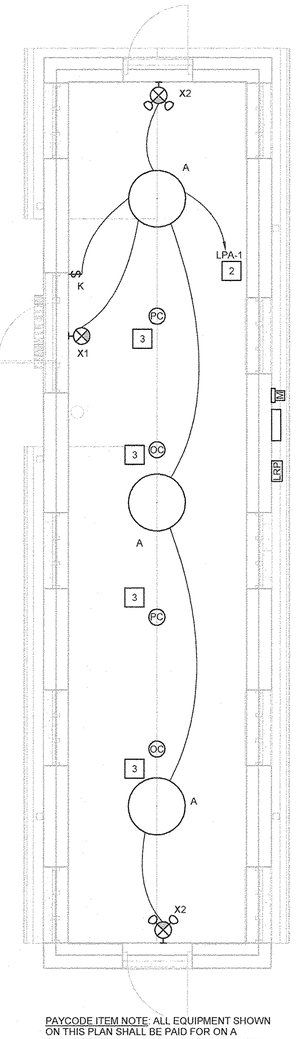


PAYCODE ITEM NOTE: ALL EQUIPMENT SHOWN ON THIS PLAN SHALL BE PAID FOR ON A PAYCODE ITEM XX003615, "POWER SYSTEMS COMPLETE, TRAIN STATION INTERIOR"

2 Platform Area Power Plan

Scale: 1/4" = 1'-0"

0 2 4 8 NORTH



PAYCODE ITEM NOTE: ALL EQUIPMENT SHOWN ON THIS PLAN SHALL BE PAID FOR ON A PAYCODE ITEM XX002064, "LIGHTING SYSTEMS COMPLETE, TRAIN STATION INTERIOR". EXCEPT FOR "LIGHTING RELAY CONTROL PANEL COMPLETE" PAYCODE ITEM XX005100.

1 Platform Area Lighting Plan

Scale: 1/4" = 1'-0"

0 2 4 8 NORTH

FILE NAME =	USER NAME =	DESIGNED - ZWC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROMEOVILLE METRA STATION PLATFORM AREA ELECTRICAL BUILDING PLANS
		CHECKED - JDE	REVISED -		
	PLOT SCALE =	DRAWN - BPH	REVISED -		
	PLOT DATE = 10-10-2016	CHECKED - JDE	REVISED -		SCALE: / SHEET NO. 33 OF 64 SHEETS / STA. / TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	10-00056-00-PK	WILL	64	33
		CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

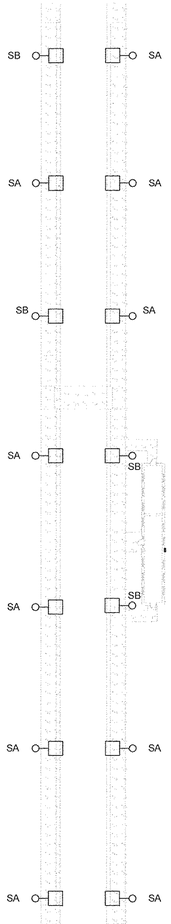
SECTION 2, TOWNSHIP 36, RANGE 10

LIGHTING RELAY CONTROL PANEL LC1 PAY CODE ITEM #XX005100

RELAY #	CIRCUIT #	ZONE SERVED	LOCAL OVERRIDE	TIME ON	TIME OFF	PHOTOCELL ON	PHOTOCELL OFF	OCCUPANCY SENSOR	VACANCY SENSOR	DAYLIGHT ON	DAYLIGHT OFF	REMARKS
1	LPA-5	PLATFORM LIGHTING				X	X					1
2	LPA-6	PLATFORM LIGHTING		X	X	X	X					2
3	LPA-13	PLATFORM LIGHTING		X	X	X	X					2
4	LPA-15	PLATFORM LIGHTING				X	X					1
5	LPA-1	INTERIOR LIGHTING	X	X	X			X		X	X	3
6		SPARE										
7		SPARE										
8		SPARE										

REMARKS:

1. LUMINAIRES ARE TO BE TURNED ON AT DUSK VIA PHOTOCELL, OFF AT DAYBREAK. LUMINAIRES SHALL REMAIN ON THROUGHOUT THE NIGHT UNTIL DAYBREAK FOR VISIBILITY, SAFETY, SECURITY, VANDALISM AND LATE ARRIVALS.
2. LUMINAIRES ARE TO BE TURNED ON AT DUSK VIA PHOTOCELL, OFF AT PRESET TIME LATE AT NIGHT, ON AT PRESET TIME IN EARLY MORNING AND OFF AT DAWN VIA PHOTOCELL, COORDINATE PRESET TIMES WITH OWNER IN FIELD.
3. PROVIDE A KEYED SWITCH (OVERRIDE) ON THE INTERIOR OF THE BUILDING FOR MANUAL ON/OFF OF THE INTERIOR LUMINAIRES. THESE LUMINAIRES WILL BE CONTROLLED VIA THE DAYLIGHT SENSOR/OCCUPANCY SENSOR.
4. PROVIDE PANEL WITH LOCKABLE COVER



Photometric Site Plan

Scale: No Scale

LUMINAIRE SCHEDULE

PAY CODE ITEM #	FIXTURE NUMBER	MANUFACTURER	CATALOG NUMBER	NO. OF LAMPS	LAMP TYPE	VOLTAGE	MOUNTING HEIGHT	DESCRIPTION
XX002064	A	FOCAL POINT DELRAY LIGHTING WINONA	FSDL 33 CX 700L 35K 1C 120 LD1 C48 6724 W W35 BDIM-W1 C2RDC WFP6100 36IDA LDP2A 35K MVOLT ID OAE SGW	L/S	LED	120 V	PENDANT	3' DIAMETER DOME LED PENDANT. FINISH TO BE WHITE
XX004619	SA	GE LIGHTING LITHONIA COOPER	EASC_D2F540/ARSA-20166BDB DSX1 LED 40C 700 40K T2S 240/RSA206G DM19 VD DDB GAN AE 02 LED U T2/RSA6M20ADBANIV	L/S	LED	120 V	20'-0"	ASYMMETRIC NARROW DISTRIBUTION SITE LIGHT MOUNTED ON 6" ROUND ALUMINUM 20'-0" POLE, WATTAGE 82
XX004620	SB	GE LIGHTING LITHONIA COOPER	EASC_F5N540/ARSA-20166BDB DSX1 LED 40C 1000 40K T5M 240/RSA206G DM19 VD DDB GAN AE 03 LED U T5/RSA6M20ADBANIV	L/S	LED	120 V	20'-0"	SYMMETRIC MEDIUM DISTRIBUTION SITE LIGHT MOUNTED ON 6" ROUND ALUMINUM 20'-0" POLE, WATTAGE 137
XX002064	X1	SURE-LITES LITHONIA PHILLIPS	APX6R LQM SW 3R 120/277 ELN VERWEM	L/S	LED	120 V	8'-0"	UNIVERSAL MOUNT EXIT SIGN
XX002064	X2	SURE-LITES LITHONIA PHILIPS	APC7R LHQMLEDRHO VCLANRW	L/S	LED	120 V	8'-0"	UNIVERSAL MOUNT EXIT SIGN WITH EMERGENCY LED HEADS

NOTES: A. CONTRACTOR SHALL REMOVE ALL FINGER PRINTS FROM LENSES, REFLECTORS, AND LOUVERS FOLLOWING LIGHT FIXTURE INSTALLATION.
B. POLES TO BE PROVIDED WITH VIBRATION DAMPERS BY THE FACTORY.

EQUIPMENT DATA SCHEDULE

MARK	EQUIPMENT	DESCRIPTION: FURNISHED BY	DESCRIPTION: INSTALLED BY	LOCATION	LOAD DATA: LOAD	LOAD DATA: VOLTAGE	LOAD DATA: PHASE	STARTER: TYPE	STARTER: NEMA SIZE	STARTER: DISC. TYPE	STARTER: DISC. SIZE	STARTER: FURNISHED BY	STARTER: INSTALLED BY	STARTER: CONTROL WIRING	DISCONNECT AT EQUIP.: DISC. TYPE	DISCONNECT AT EQUIP.: DISC. SIZE	DISCONNECT AT EQUIP.: FURNISHED BY	DISCONNECT AT EQUIP.: INSTALLED BY	WIRE & CONDUIT	REMARKS
EF 1	EXHAUST FAN	MC	MC	WAITING	0.75 HP	120	1	PWC	-	-	-	VND	VND	TC	TT	20	EC	EC	2#12, 1#12G, 3/4"C	
EH 1	ELECTRIC RADIANT PANEL	MC	MC	WAITING	2,000 W	240	1	-	-	-	-	-	-	TC	NF	30	EC	EC	2#12, 1#12G, 3/4"C	
EH 2	ELECTRIC RADIANT PANEL	MC	MC	WAITING	2,000 W	240	1	-	-	-	-	-	-	TC	NF	30	EC	EC	2#12, 1#12G, 3/4"C	
EH 3	ELECTRIC RADIANT PANEL	MC	MC	WAITING	2,000 W	240	1	-	-	-	-	-	-	TC	NF	30	EC	EC	2#12, 1#12G, 3/4"C	

EQUIPMENT DATA NOTES:

HP / LOAD
HORSEPOWER UNLESS, KW, KVA, AMPS, FLA, OR MCA INDICATED

FURNISHED OR INSTALLED BY
- EC ELECTRICAL CONTRACTOR
- FC FOOD SERVICE CONTRACTOR
- GC GENERAL CONTRACTOR
- MC MECHANICAL CONTRACTOR
- NIC NOT IN CONTRACT
- OWN OWNER
- PC PLUMBING CONTRACTOR
- TC TEMPERATURE CONTROLS CONTRACTOR
- VND VENDOR / WITH EQUIPMENT
- FPC FIRE PROTECTION CONTRACTOR
- ELC ELEVATOR CONTRACTOR

STARTER TYPE
- FVNR FULL VOLTAGE, NON-REVERSING
- FVR FULL VOLTAGE, REVERSING
- MAN MANUAL MOTOR STARTER W/ OVERLOAD(S)
- PWC PRE-WIRED CONTROLS
- RVAT REDUCED VOLTAGE - AUTOTRANSFORMER
- SDS REDUCED VOLTAGE - STAR DELTA
- VFD VARIABLE FREQUENCY DRIVE
- 2S2W TWO SPEED - TWO WINDING
- 2S1W TWO SPEED - SINGLE WINDING

DISCONNECT TYPE
- CB CIRCUIT BREAKER
- FS FUSED SWITCH
- NF NON-FUSED SWITCH
- SW TOGGLE SWITCH
- MCP MOTOR CIRCUIT PROTECTOR
- SR SINGLE RECEPTACLE
- DR DUPLEX RECEPTACLE
- TT THERMAL TRIP SWITCH
- EX EXISTING DISCONNECT SWITCH

SIZE
- FUSE/SWITCH SIZE
- TRIP SIZE

A. ALL STARTERS SHALL BE PROVIDED WITH FUSED CONTROL POWER TRANSFORMER, HAND-OFF-AUTO SELECTOR SWITCH, PILOT LIGHTS AND 2 N.O. AND 2 N.C. AUXILARY CONTACTS UNLESS INDICATED..
B. INSTALL DISCONNECT SWITCH ON THE SIDE OF THE EQUIPMENT HOUSING.
C. ALL WIRING TO BE PART OF PAY CODE ITEM #XX003615

PANEL ID: LPA
VOLTAGE: 120/240
PHASE: 1
RATED AMPERAGE: 225 A
MAIN: 150 A MCB
SCCR RATING: 40,000

CONNECTED LOAD PER PHASE: A 8147 VA 68 A; B 9050 VA 75 A

WATTS/PHASE
AMPS/PHASE

FOUR WIRE S/N
GROUND BUS
MOUNTING: SURFACE
SECTION
SHUNT TRIP
CONTACTOR

CKT	IDENTIFICATION	*	BKR SIZE	A		B		BKR SIZE	*	IDENTIFICATION	CKT
1	INTERIOR LIGHTING	1	20 A/1	333	1000			20 A/1	1	LIGHTING RELAY PANEL	2
3	RECEPTACLES	1	20 A/1			900	720	20 A/1	1	RECEPTACLES	4
5	SITE LTG/RCPT	1	20 A/1	1530	1310			20 A/1	1	SITE LTG/RCPT	6
7	EF-1	1	20 A/1			1656	1150	20 A/2	1	ERP-1	8
9	ERP-2	1	20 A/2	1150	1150						10
11						1150	1150	20 A/2	1	ERP-3	12
13	SITE LTG/RCPT	1	20 A/1	524	1150						14
15	SITE LTG/RCPT	1	20 A/1			524	1800	20 A/1	1	VOM PANEL	16
17	SPARE	1	--	0	0			--	1	SPARE	18
19	SPARE	1	--			0	0	--	1	SPARE	20
21	SPARE	1	--	0	0			--	1	SPARE	22
23	SPARE	1	--			0	0	--	1	SPARE	24

PANEL TOTALS
TOTAL CONNECTED LOAD: 17197 VA
TOTAL DEMAND: 17530 VA
TOTAL CONNECTED CURRENT: 72 A
TOTAL DEMAND CURRENT: 73 A

* INDICATES BREAKER TYPE: 1 = STANDARD, 2 = AFCI, 3 = 6mA GFI, 4 = 30mA GFI, 5 = SHUNT TRIP ACTIVATED
ALL SPARES SHALL BE 20A/1P UNLESS OTHERWISE NOTED
PROVIDE PANEL WITH WITH LOCKABLE COVER
PAID FOR UNDER PAY CODE ITEM #XX003615

FILE NAME =	USER NAME =	DESIGNED - ZWC	REVISED -
		CHECKED - JDE	REVISED -
	PLOT SCALE =	DRAWN - BPH	REVISED -
	PLOT DATE = 10-10-2016	CHECKED - JDE	REVISED -

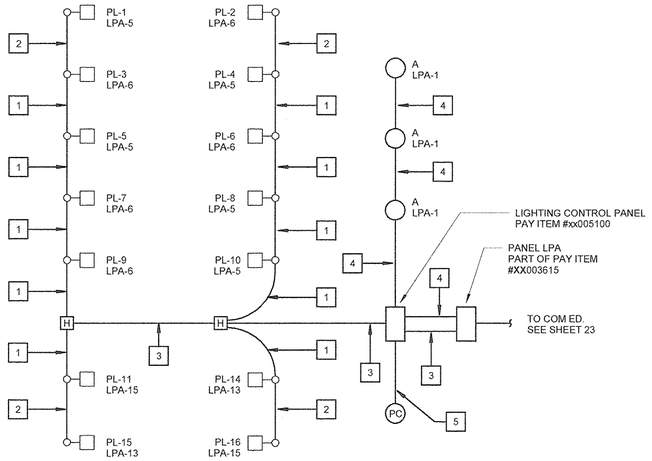
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROMEOVILLE METRA STATION
PLATFORM AREA
ELECTRICAL SCHEDULES

SCALE: | SHEET NO. 34 OF 64 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	10-00056-00-PK	WILL	64	34
		CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

SECTION 2, TOWNSHIP 36, RANGE 10

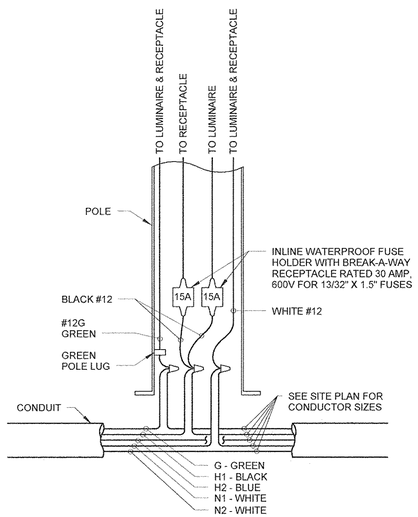


NOTES:

1. PLANS SHOWN SCHEMATICALLY TO CORRESPOND WITH PAY ITEM LIST. FOR CIRCUITING, SEE SCALED SITE PLAN.

3 LIGHTING CONTROL PANEL WIRING

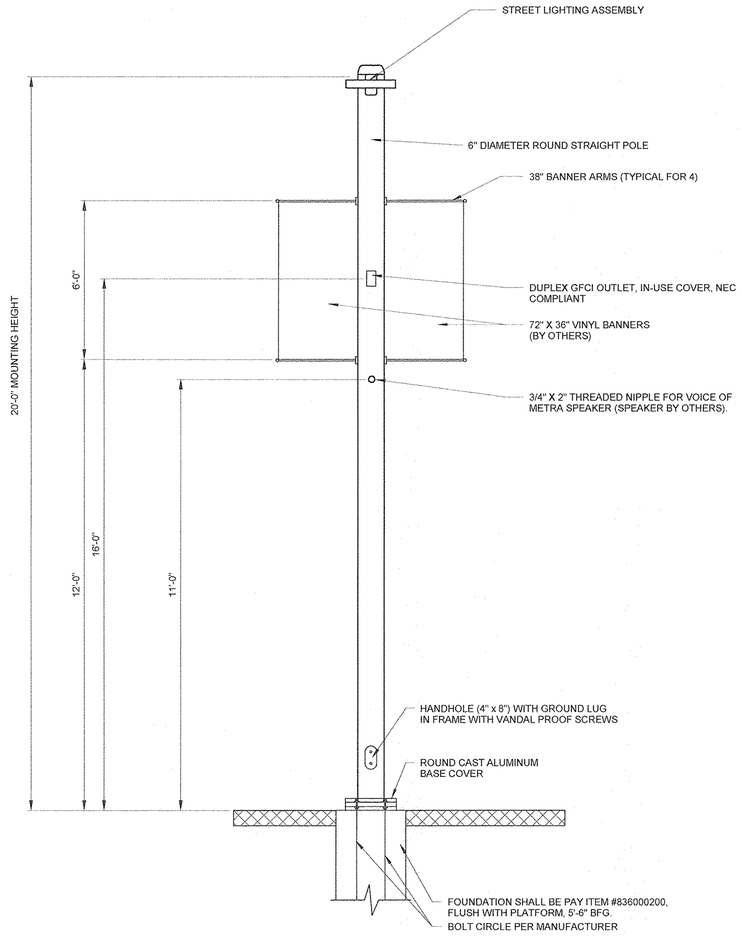
Scale: No Scale



NOTE:
HOT CONDUCTOR UTILIZED IN POLE SHALL CHANGE PER POLE AS INDICATED ON SITE PLAN (ODD # CIRCUITS SHALL BE BLACK, EVEN # CIRCUITS SHALL BE BLUE).

2 Typical Pole Base Handhole Wiring Diagram

Scale: No Scale



NOTES:

1. TYPE SA FIXTURE IS PROVIDED AS PAYCODE ITEM XX004619 FOR MATERIAL ONLY. TYPE SB FIXTURE IS PROVIDED AS PAYCODE ITEM XX004620 FOR MATERIAL ONLY.

1 Platform Lights Typical Pole Installation For Types SA And SB

Scale: No Scale

Keyed Notes

1. 4#6, 1#6G, 1"C
2. 2#6, 1#6G, 1"C
3. 2 SETS (4#6, 1#6G, 1"C) FOR PLATFORM LIGHTING
4. 2#12, 1#12G, 3/4" FOR INTERIOR LIGHTING
5. 2#12, 3/4"C FOR PHOTO CELL WIRING

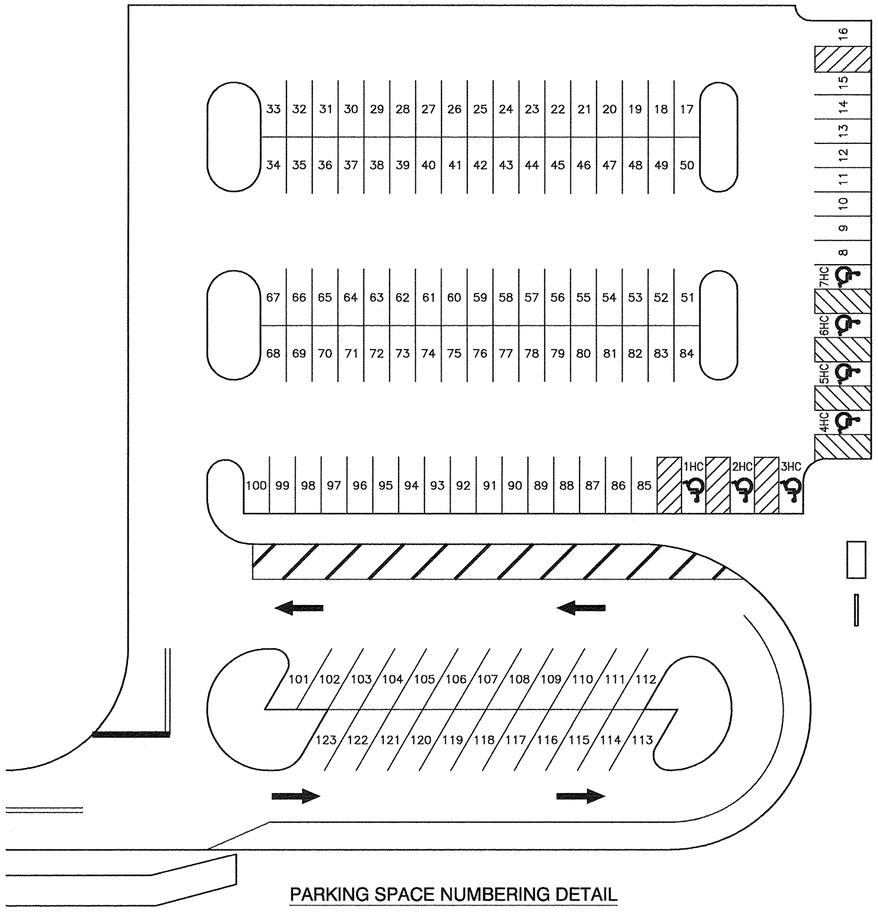
FILE NAME =	USER NAME =	DESIGNED - ZWC	REVISED -
		CHECKED - JDE	REVISED -
	PLOT SCALE =	DRAWN - BPH	REVISED -
	PLOT DATE = 10-10-2016	CHECKED - JDE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

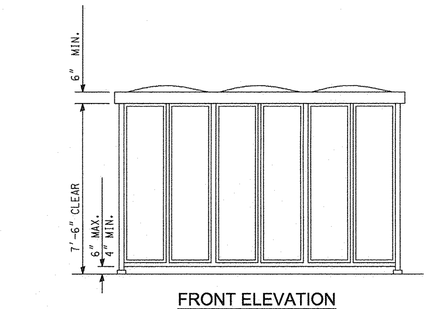
ROMEOVILLE METRA STATION
PLATFORM AREA
ELECTRICAL DETAILS

SCALE: | SHEET NO. 35 OF 64 SHEETS | STA. | TO STA.

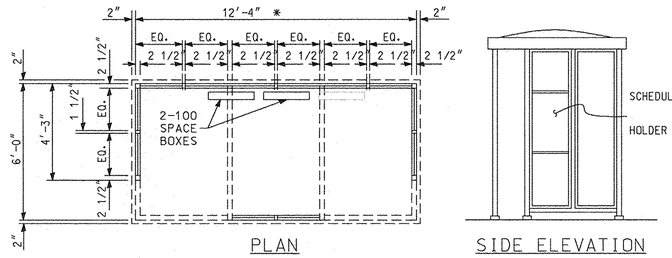
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
--	10-00056-00-PK	WILL	64	35
		CONTRACT NO.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		



PARKING SPACE NUMBERING DETAIL

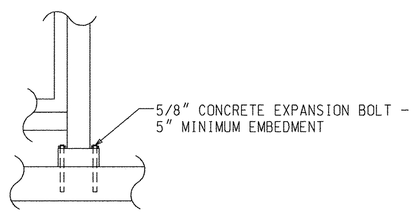


FRONT ELEVATION
(WINDSCREEN NOT SHOWN FOR CLARITY)

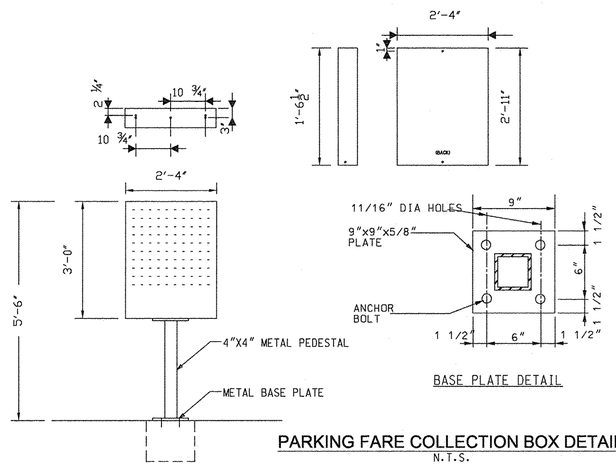


PLAN SIDE ELEVATION

PARKING FARE COLLECTION BOX AND SHELTER
N.T.S.
(CELL-PMOD17)



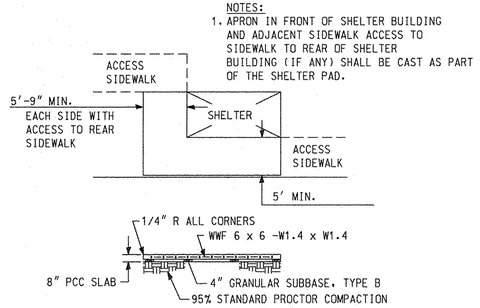
PARKING FARE COLLECTION BOX AND SHELTER ANCHORAGE DETAIL
N.T.S.



BASE PLATE DETAIL

PARKING FARE COLLECTION BOX DETAILS (TYP.)
N.T.S.
(CELL-PMOD19)

NOTES:
1. APRON IN FRONT OF SHELTER BUILDING AND ADJACENT SIDEWALK ACCESS TO SIDEWALK TO REAR OF SHELTER BUILDING (IF ANY) SHALL BE CAST AS PART OF THE SHELTER PAD.



TYPICAL PAD FOR SHELTER
N.T.S.

FIGURE E-1
(CELL-PMOD18)

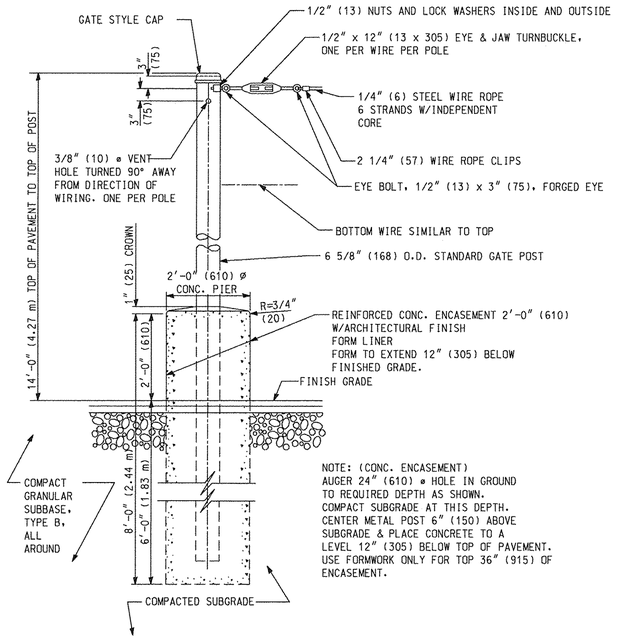
FILE NAME = 07552_02-DTLS-02 - IDOT D-1	USER NAME =	DESIGNED — TAG	REVISED —
		CHECKED — PKB	REVISED —
	PLOT SCALE =	DRAWN — ACAD	REVISED —
	PLOT DATE = 10-10-16	CHECKED — ACAD	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROMEOVILLE METRA LOT
PROPOSED ACCESS ROAD
CONSTRUCTION DETAILS

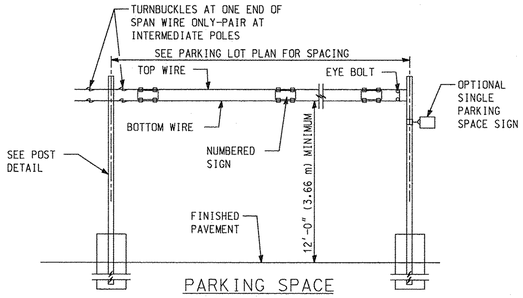
SCALE: | SHEET NO. 36 OF 64 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	36
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		



POST DETAIL
N.T.S.
(CELL-PRK04)

DECEMBER 2003

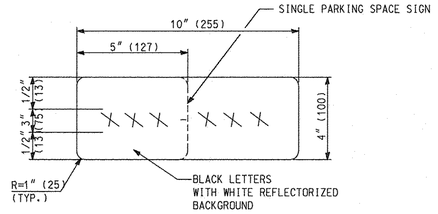


PARKING SPACE NUMBER SIGNS INSTALLATION DETAIL
N.T.S.

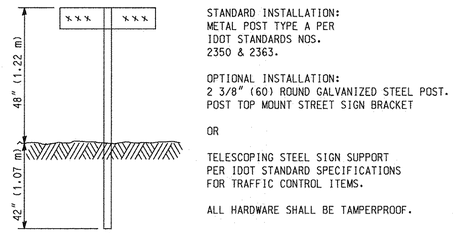
NUMBERED SIGN TO BE ATTACHED TO WIRE WITH U-BOLTS AND SADDLES.

(CELL-PRK07)

OVERHEAD PARKING NUMBERING



PARKING SPACE NUMBER SIGN
N.T.S.
(CELL-PRK06)



STANDARD INSTALLATION:
METAL POST TYPE A PER IDOT STANDARDS NOS. 2350 & 2363.

OPTIONAL INSTALLATION:
2 3/8" (60) ROUND GALVANIZED STEEL POST. POST TOP MOUNT STREET SIGN BRACKET

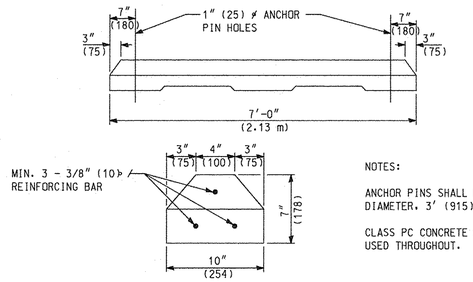
OR

TELESCOPING STEEL SIGN SUPPORT PER IDOT STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.

ALL HARDWARE SHALL BE TAMPERPROOF.

PARKING SPACE NUMBER SIGNS
INSTALLATION DETAIL
(GROUND MOUNTING FOR PERIMETER SPACES)
N.T.S.

(CELL-PRK05)

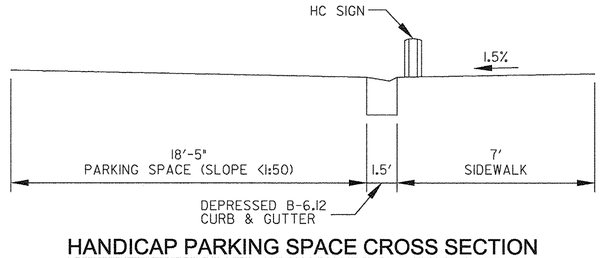


NOTES:

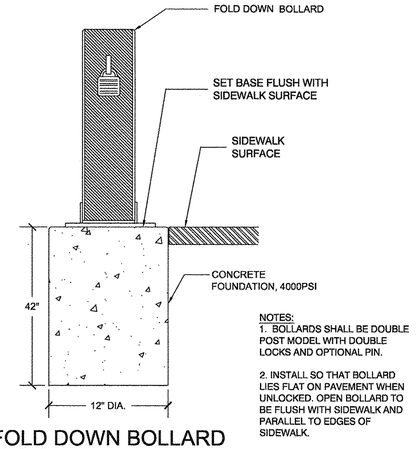
ANCHOR PINS SHALL BE 3/4" (20) DIAMETER, 3' (915) LONG.

CLASS PC CONCRETE SHALL BE USED THROUGHOUT.

CONCRETE PARKING BLOCKS
N.T.S.
(CELL-PRK11)



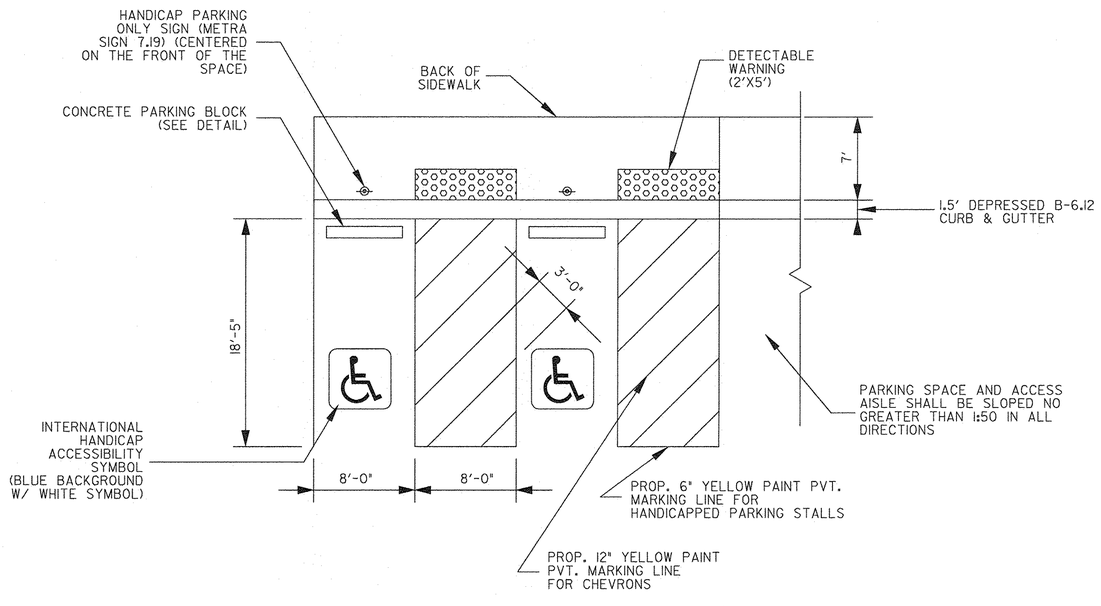
HANDICAP PARKING SPACE CROSS SECTION



NOTES:
1. BOLLARDS SHALL BE DOUBLE POST MODEL WITH DOUBLE LOCKS AND OPTIONAL PIN.

2. INSTALL SO THAT BOLLARD LIES FLAT ON PAVEMENT WHEN UNLOCKED. OPEN BOLLARD TO BE FLUSH WITH SIDEWALK AND PARALLEL TO EDGES OF SIDEWALK.

FOLD DOWN BOLLARD



VAN/CAR ACCESSIBLE PARKING SPACES

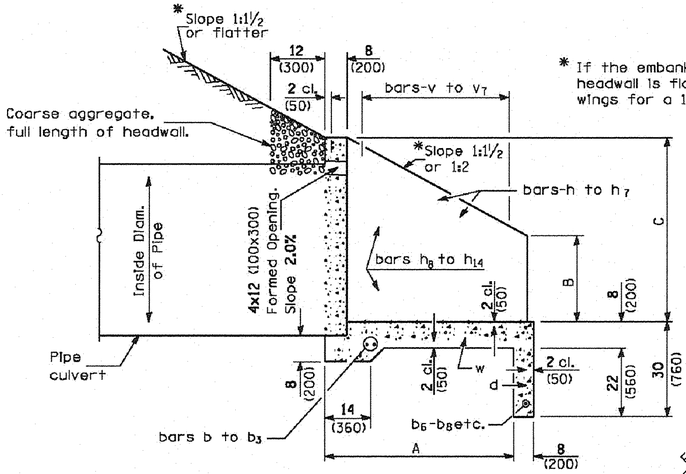
FILE NAME = 07552_02-DTLS-02 - IDOT D-2	USER NAME =	DESIGNED — TAG	REVISED —
		CHECKED — PKB	REVISED —
	PLOT SCALE =	DRAWN — ACAD	REVISED —
	PLOT DATE = 10-10-16	CHECKED — ACAD	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROMEOVILLE METRA LOT
PROPOSED ACCESS ROAD
CONSTRUCTION DETAILS

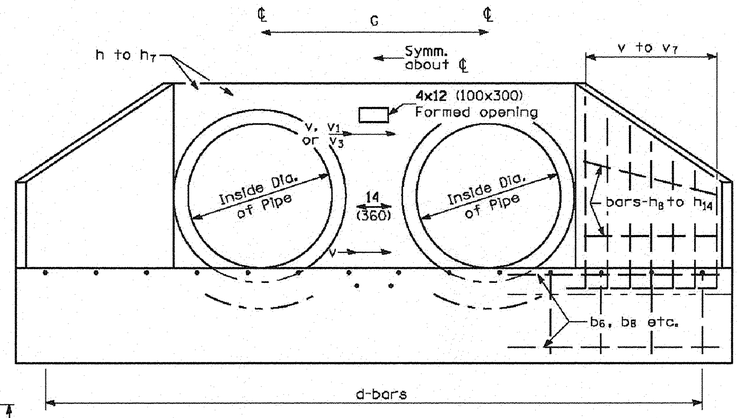
SCALE: | SHEET NO. 37 OF 64 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	37
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

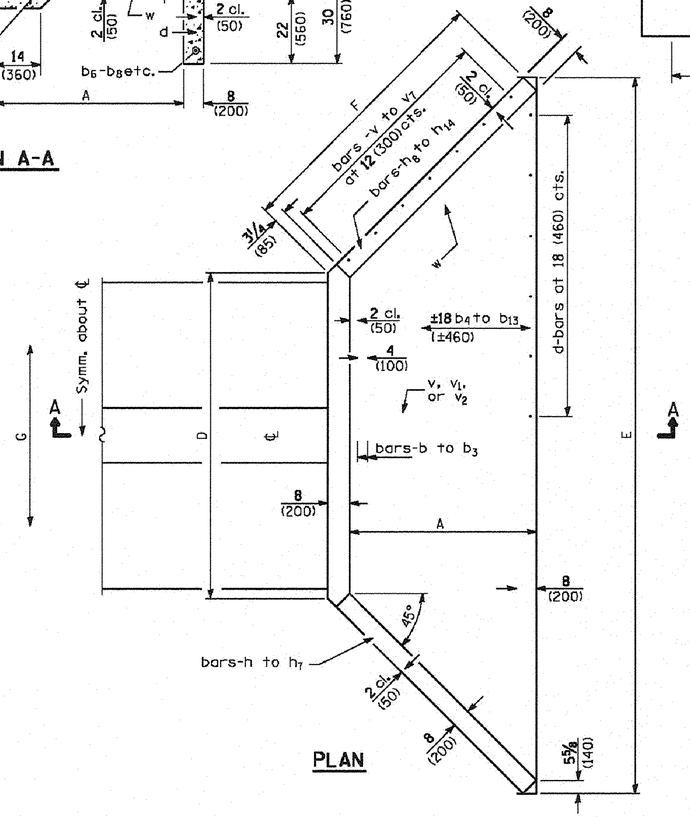


SECTION A-A

* If the embankment slope above the headwall is flatter than 1:2, provide wings for a 1:2 slope.



END ELEVATION



PLAN

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in inches (millimeters) unless otherwise shown.

REINFORCED CONCRETE END SECTIONS FOR MULTIPLE (2 & 3) PIPE CULVERTS 42" (1050 mm) THRU 60" (1500 mm) DIA. AT RIGHT ANGLES WITH ROADWAY
(Sheet 1 of 3)

FILE NAME = 07552_02-DTLS-03 - D-RCES-1	USER NAME =	DESIGNED — TAG	REVISED —
		CHECKED — PKB	REVISED —
	PLOT SCALE =	DRAWN — ACAD	REVISED —
	PLOT DATE = 10-10-16	CHECKED — ACAD	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROMEOVILLE METRA LOT
PROPOSED ACCESS ROAD
CONSTRUCTION DETAILS

SCALE: | SHEET NO. 38 OF 64 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	38
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

DIMENSIONS OF STRAIGHT BARS

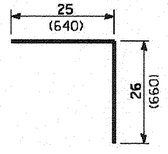
Bar	Size	Length 2-Pipes	Length 3-Pipes	Bar	Size	Length 2-Pipes	Length 3-Pipes
b	No. 5 (No. 16)	11'-9" (3.58 m)	17'-6" (5.33 m)	h_8	No. 4 (No. 13)	4'-9" (1.45 m)	4'-9" (1.45 m)
b_1	No. 5 (No. 16)	13'-0" (3.96 m)	19'-3" (5.87 m)	h_9	No. 4 (No. 13)	5'-3" (1.6 m)	5'-3" (1.6 m)
b_2	No. 5 (No. 16)	14'-0" (4.27 m)	20'-9" (6.32 m)	h_{10}	No. 4 (No. 13)	6'-0" (1.83 m)	6'-0" (1.83 m)
b_3	No. 5 (No. 16)	15'-3" (4.65 m)	22'-9" (6.94 m)	h_{11}	No. 4 (No. 13)	6'-6" (1.98 m)	6'-6" (1.98 m)
b_4	No. 4 (No. 13)	14'-6" (4.42 m)	20'-6" (6.25 m)	h_{12}	No. 4 (No. 13)	7'-3" (2.21 m)	7'-3" (2.21 m)
b_5	No. 4 (No. 13)	16'-3" (4.95 m)	23'-0" (7.01 m)	h_{13}	No. 4 (No. 13)	8'-0" (2.44 m)	8'-0" (2.44 m)
b_6	No. 4 (No. 13)	17'-3" (5.26 m)	24'-0" (7.32 m)	h_{14}	No. 4 (No. 13)	8'-9" (2.67 m)	8'-9" (2.67 m)
b_7	No. 4 (No. 13)	18'-0" (5.49 m)	24'-6" (7.47 m)	w	No. 4 (No. 13)	4'-0" (1.22 m)	4'-0" (1.22 m)
b_8	No. 4 (No. 13)	19'-0" (5.79 m)	25'-3" (7.7 m)				
b_9	No. 4 (No. 13)	20'-6" (6.25 m)	26'-0" (7.92 m)				
b_{10}	No. 4 (No. 13)	21'-3" (6.48 m)	27'-0" (8.23 m)				
b_{11}	No. 4 (No. 13)	23'-0" (7.01 m)	27'-9" (8.46 m)				
b_{12}	No. 4 (No. 13)	24'-0" (7.32 m)	30'-6" (9.3 m)				
b_{13}	No. 4 (No. 13)	26'-0" (7.92 m)	34'-0" (10.36 m)				

DIMENSIONS AND QUANTITIES

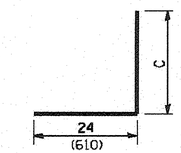
Design No.	Nominal Inside Dia. of Pipe	Slope of Wing Walls	Dimensions: For all Multiples of Pipes A	B	C	F	G	2 Pipes D	2 Pipes E	3 Pipes D	3 Pipes E	Quantities: 2 Pipes Concrete 2 End Secs. cu. yds. (m^3)	2 Pipes Reinf. Bars 2 End Secs. lbs. (kgs)	3 Pipes Concrete 2 End Secs. cu. yds. (m^3)	3 Pipes Reinf. Bars 2 End Secs. lbs. (kgs)
D42-1½ (D1.05-1½)	42 (1050)	1:1½	3'-4" (1.01 m)	26 (660)	4'-4½" (1.33 m)	5'-0" (1.52 m)	5'-9" (1.75 m)	10'-7" (3.23 m)	17'-8" (5.38 m)	16'-4" (4.98 m)	23'-5" (7.13 m)	7.1 (5.4)	440 (200)	9.3 (7.1)	540 (245)
D42-2 (D1.05-2)	42 (1050)	1:2	4'-5" (1.35 m)	26 (660)	4'-4½" (1.33 m)	6'-6¼" (1.99 m)	5'-9" (1.75 m)	10'-7" (3.23 m)	19'-10" (6.04 m)	16'-4" (4.98 m)	25'-7" (7.8 m)	8.8 (6.7)	540 (245)	11.4 (8.7)	640 (290)
D48-1½ (D1.2-1½)	48 (1200)	1:1½	3'-9" (1.12 m)	29 (740)	4'-11" (1.5 m)	5'-7" (1.7 m)	6'-4" (1.93 m)	11'-9" (3.58 m)	19'-8" (5.98 m)	18'-1" (5.51 m)	26'-0" (7.91 m)	8.4 (6.4)	510 (231)	11.1 (8.5)	610 (277)
D48-2 (D1.2-2)	48 (1200)	1:2	5'-0" (1.52 m)	29 (740)	4'-11" (1.5 m)	7'-4¼" (2.24 m)	6'-4" (1.93 m)	11'-9" (3.58 m)	22'-2" (6.75 m)	18'-1" (5.51 m)	28'-6" (8.68 m)	10.7 (8.2)	630 (286)	13.7 (10.5)	740 (336)
D54-1½ (D1.35-1½)	54 (1350)	1:1½	4'-2" (1.27 m)	32 (810)	5'-5½" (1.66 m)	6'-2" (1.88 m)	6'-11" (2.11 m)	12'-11" (3.94 m)	21'-8" (6.6 m)	19'-10" (6.05 m)	28'-7" (8.71 m)	10.0 (7.6)	580 (263)	13.1 (10.0)	700 (318)
D54-2 (D1.35-2)	54 (1350)	1:2	5'-7" (1.7 m)	32 (810)	5'-5½" (1.66 m)	8'-2" (2.49 m)	6'-11" (2.11 m)	12'-11" (3.94 m)	24'-6" (7.46 m)	19'-10" (6.05 m)	31'-5" (9.57 m)	12.8 (9.8)	670 (304)	16.3 (12.5)	800 (363)
D60-1½ (D1/5-1½)	60 (1500)	1:1½	4'-7" (1.4 m)	35 (890)	6'-0" (1.83 m)	6'-9" (2.06 m)	7'-6" (2.29 m)	14'-1" (4.29 m)	23'-8" (7.2 m)	21'-7" (6.58 m)	31'-2" (9.49 m)	11.7 (8.9)	650 (295)	15.3 (11.7)	790 (358)
D60-2 (D1.5-2)	60 (1500)	1:2	6'-2" (1.88 m)	35 (890)	6'-0" (1.83 m)	9'-0" (2.74 m)	7'-6" (2.29 m)	14'-11" (4.29 m)	26'-10" (8.16 m)	21'-7" (6.58 m)	34'-4" (10.45 m)	15.0 (11.5)	780 (354)	19.2 (14.7)	930 (422)

DIMENSIONS OF BENT BARS

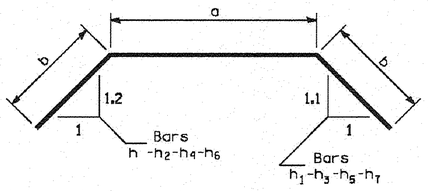
No. 5 -bars v to v_7 (No. 16) Bars	c	Total Length	No. 5 -bars h to h_7 (No. 16) Bars	2-Pipes a	2-Pipes b	2-Pipes Total Length	3-Pipes a	3-Pipes b	3-Pipes Total Length
v	6'-0" (1.83 m)	8'-0" (2.44 m)	h	10'-5" (3.18 m)	5'-2" (1.57 m)	20'-9" (6.32 m)	16'-2" (4.93 m)	5'-2" (1.57 m)	26'-6" (8.07 m)
v_1	5'-6" (1.68 m)	7'-6" (2.29 m)	h_1	10'-5" (3.18 m)	6'-8" (2.03 m)	23'-9" (7.24 m)	16'-2" (4.93 m)	6'-8" (2.03 m)	29'-6" (8.99 m)
v_2	5'-0" (1.52 m)	7'-0" (2.13 m)	h_2	11'-7" (3.53 m)	5'-10" (1.78 m)	23'-3" (7.09 m)	17'-11" (5.46 m)	5'-11" (1.80 m)	29'-9" (9.06 m)
v_3	4'-6" (1.37 m)	6'-6" (1.98 m)	h_3	11'-7" (3.53 m)	7'-7" (2.31 m)	26'-9" (8.15 m)	17'-11" (5.46 m)	7'-6½" (2.3 m)	33'-0" (10.06 m)
v_4	4'-0" (1.22 m)	6'-0" (1.83 m)	h_4	12'-9" (3.87 m)	6'-6" (1.98 m)	25'-9" (7.83 m)	19'-8" (6.0 m)	6'-6½" (2.0 m)	32'-9" (10.0 m)
v_5	3'-6" (1.07 m)	5'-6" (1.68 m)	h_5	12'-9" (3.87 m)	8'-3" (2.51 m)	29'-0" (8.89 m)	19'-8" (6.0 m)	8'-3½" (2.53 m)	36'-3" (11.06 m)
v_6	36 (910)	5'-0" (1.52 m)	h_6	12'-11" (4.24 m)	7'-2" (2.18 m)	28'-3" (8.60 m)	21'-5" (6.53 m)	7'-2" (2.18 m)	35'-9" (10.89 m)
v_7	30 (760)	4'-6" (1.37 m)	h_7	13'-11" (4.24 m)	9'-2" (2.79 m)	32'-3" (9.82 m)	21'-5" (6.53 m)	9'-3½" (2.83 m)	40'-0" (12.19 m)



No. 4 (No. 13) BAR-d



BARS - v to v_7



BARS - h to h_7

Bend in field
One Required in each headwall

REINFORCED CONCRETE END SECTIONS
FOR MULTIPLE (2 & 3) PIPE CULVERTS
42" (1050 mm) THRU 60" (1500 mm) DIA.
AT RIGHT ANGLES WITH ROADWAY
(Sheet 2 of 3)

FILE NAME = 07552_02-DTLS-03 - D-RCES-2	USER NAME =	DESIGNED — TAG	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROMEOVILLE METRA LOT PROPOSED ACCESS ROAD CONSTRUCTION DETAILS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED — PKB	REVISED —			282	10-00056-00-PK	WILL	64	39
	PLOT SCALE =	DRAWN — ACAD	REVISED —						CONTRACT NO. 61D08	
	PLOT DATE = 10-10-16	CHECKED — ACAD	REVISED —		SCALE: SHEET NO. 39 OF 64 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

BARS IN ONE END SECTION - 2 PIPES

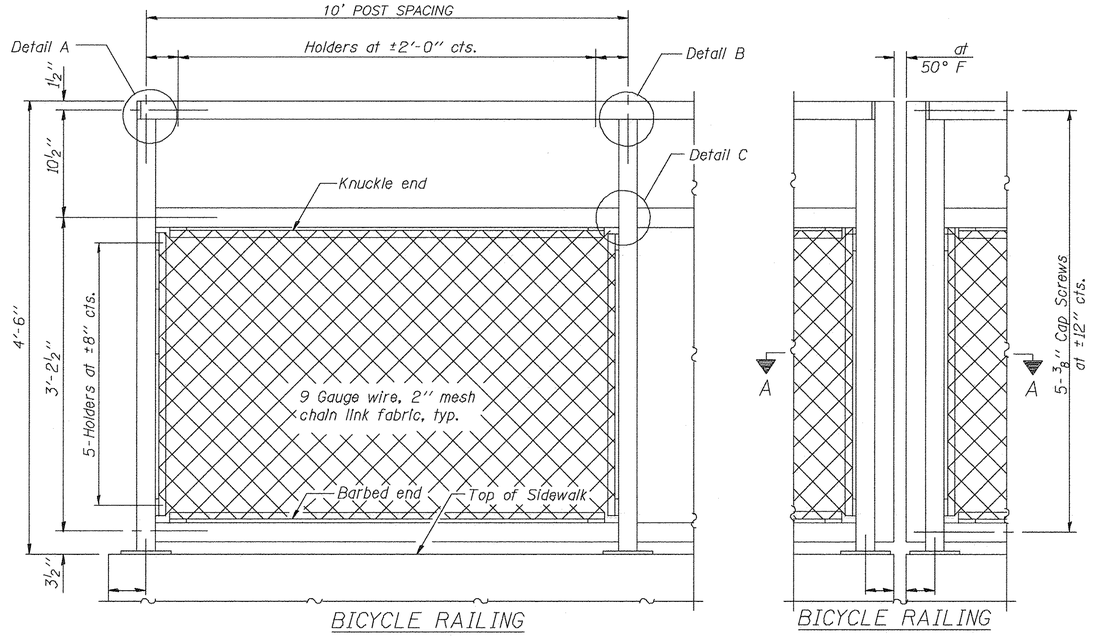
42 Pipe (1050)				48 Pipe (1200)				54 Pipe (1350)				60 Pipe (1500)			
D42-1½ (D1.05-1½)		D42-2 (D1.05-2)		D48-1½ (D1.2-1½)		D48-2 (D1.2-2)		D54-1½ (D1.35-1½)		D54-2 (D1.35-2)		D60-1½ (D1.5-1½)		D60-2 (D1.5-2)	
BARS	No.	BARS	No.	BARS	No.	BARS	No.	BARS	No.	BARS	No.	BARS	No.	BARS	No.
d	12	d	13	d	13	d	15	d	14	d	16	d	16	d	18
b	2	b	2	b_1	2	b_1	2	b_2	2	b_2	2	b_3	2	b_3	2
b_4	1	b_4	1	b_5	1	b_5	1	b_6	1	b_6	1	b_7	1	b_7	1
b_6	2	b_6	1	b_8	2	b_8	1	b_8	1	b_9	1	b_9	1	b_9	1
		b_8	2			b_{10}	2	b_{10}	2	b_{12}	2	b_{11}	2	b_{12}	1
														b_{13}	2
h	2	h_1	2	h_2	2	h_3	2	h_4	2	h_5	2	h_6	2	h_7	2
h_8	4	h_{10}	4	h_9	4	h_{12}	4	h_{10}	4	h_{13}	4	h_{11}	4	h_{14}	4
v_7	6	v_7	8	v_7	4	v_7	4	v_6	4	v_6	6	v_5	6	v_5	8
v_4	4	v_4	6	v_5	4	v_5	8	v_4	4	v_4	6	v_3	4	v_3	6
v_3	2	v_3	2	v_3	4	v_2	4	v_1	4	v_1	4	v	6	v	6
				v_1	2	v_1	2	v	2	v	2				
w	2	w	2	w	2	w	2	w	2	w	2	w	2	w	2

BARS IN ONE END SECTION - 3 PIPES

42 Pipe (1050)				48 Pipe (1200)				54 Pipe (1350)				60 Pipe (1500)			
D42-1½ (D1.05-1½)		D42-2 (D1.05-2)		D48-1½ (D1.2-1½)		D48-2 (D1.2-2)		D54-1½ (D1.35-1½)		D54-2 (D1.35-2)		D60-1½ (D1.5-1½)		D60-2 (D1.5-2)	
BARS	No.	BARS	No.	BARS	No.	BARS	No.	BARS	No.	BARS	No.	BARS	No.	BARS	No.
d	15	d	17	d	17	d	19	d	19	d	21	d	21	d	23
b	2	b	2	b_1	2	b_1	2	b_2	2	b_2	2	b_3	2	b_3	2
b_4	1	b_4	1	b_5	1	b_5	1	b_6	1	b_7	1	b_8	1	b_8	1
b_5	2	b_5	1	b_8	2	b_8	1	b_9	1	b_{11}	1	b_{11}	1	b_{10}	1
		b_8	2			b_{11}	2	b_{11}	2	b_{12}	2	b_{12}	2	b_{12}	1
														b_{13}	2
h	2	h_1	2	h_2	2	h_3	2	h_4	2	h_5	2	h_6	2	h_7	2
h_8	4	h_{10}	4	h_9	4	h_{12}	4	h_{10}	4	h_{13}	4	h_{11}	4	h_{14}	4
v_7	6	v_7	8	v_7	4	v_7	4	v_6	4	v_6	6	v_5	6	v_5	8
v_4	4	v_4	6	v_5	4	v_5	8	v_4	4	v_4	6	v_3	4	v_3	6
v_3	2	v_3	2	v_3	4	v_2	4	v_1	4	v_1	4	v	6	v	6
				v_1	2	v_1	2	v	2	v	2				
w	2	w	2	w	2	w	2	w	2	w	2	w	2	w	2

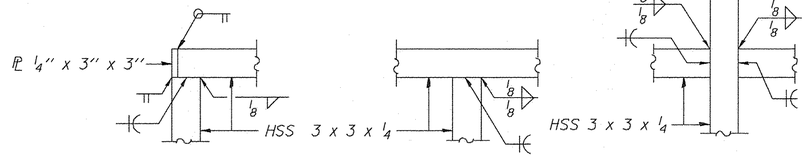
REINFORCED CONCRETE END SECTIONS FOR MULTIPLE (2 & 3) PIPE CULVERTS 42" (1050 mm) THRU 60" (1500 mm) DIA. AT RIGHT ANGLES WITH ROADWAY
(Sheet 3 of 3)

FILE NAME = 07552_02-DTLS-03 - D-RCES-3	USER NAME =	DESIGNED — TAG	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROMEOVILLE METRA LOT PROPOSED ACCESS ROAD CONSTRUCTION DETAILS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED — PKB	REVISED —			282	10-00056-00-PK	WILL	64	40
	PLOT SCALE =	DRAWN — ACAD	REVISED —					CONTRACT NO. 61D08		
	PLOT DATE = 10-10-16	CHECKED — ACAD	REVISED —		SCALE: SHEET NO. 40 OF 64 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

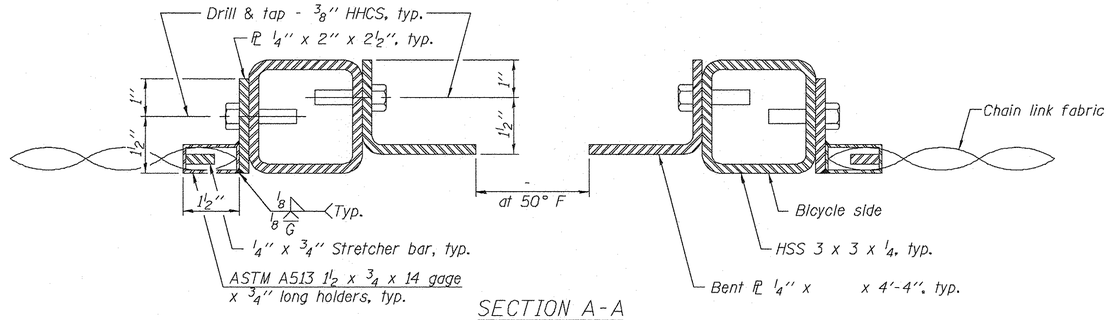


BICYCLE RAILING

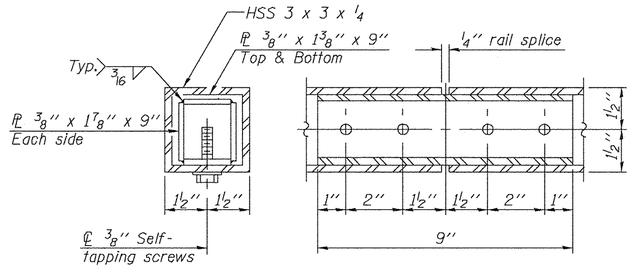
BICYCLE RAILING



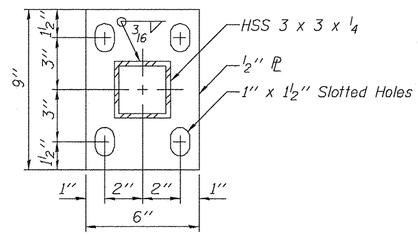
DETAIL A DETAIL B DETAIL C



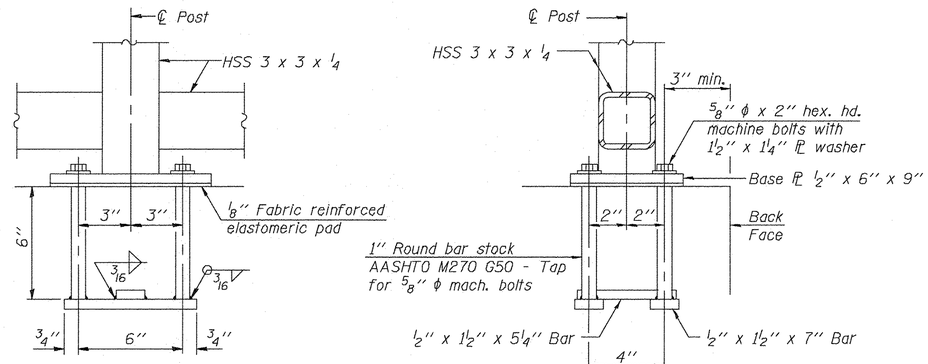
SECTION A-A



RAIL SPLICE



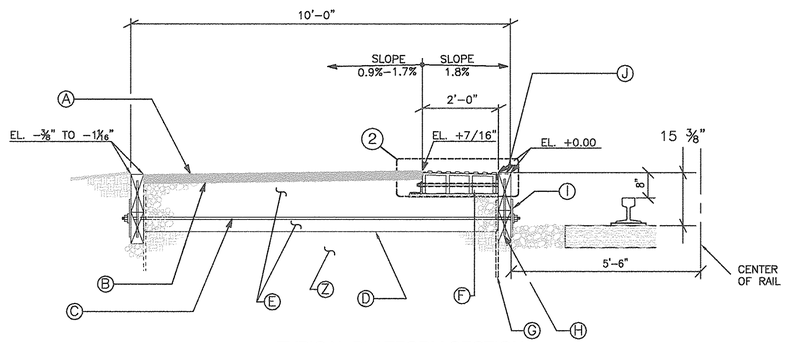
BASE ℄



ANCHOR BOLT DETAILS

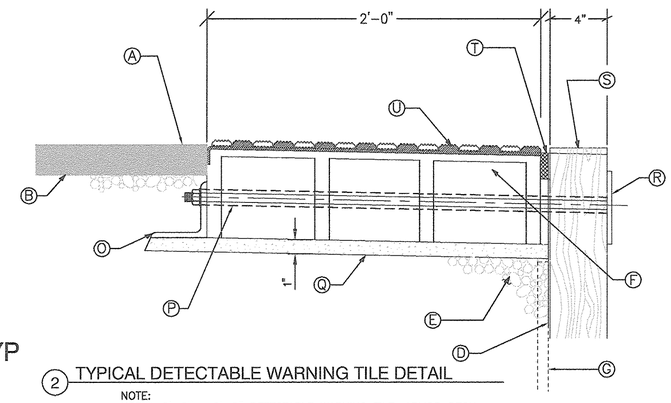
In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

FILE NAME = 07552_02-DTLS-03 - D-RCES-4	USER NAME =	DESIGNED — TAG	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROMEOVILLE METRA LOT PROPOSED ACCESS ROAD CONSTRUCTION DETAILS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED — PKB	REVISED —			282	10-00056-00-PK	WILL	64	41
	PLOT SCALE =	DRAWN — ACAD	REVISED —					CONTRACT NO. 61D08		
	PLOT DATE = 10-10-16	CHECKED — ACAD	REVISED —		SCALE: SHEET NO. 41 OF 64 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		



BIT01-TYP

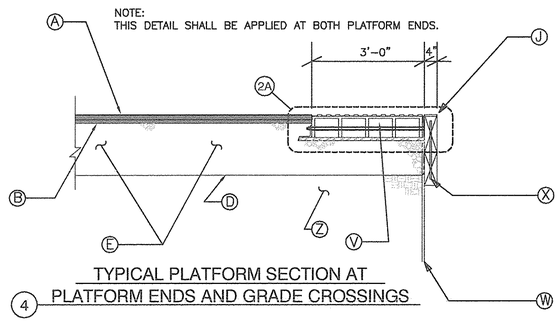
1 TYPICAL PLATFORM SECTION



BIT04-TYP

2 TYPICAL DETECTABLE WARNING TILE DETAIL

NOTE:
USE A 2'-0" x 8'-0" DETECTABLE WARNING TILE, ARMOR DECK PART NUMBER ADG-249606 OR AN APPROVED EQUIVALENT.

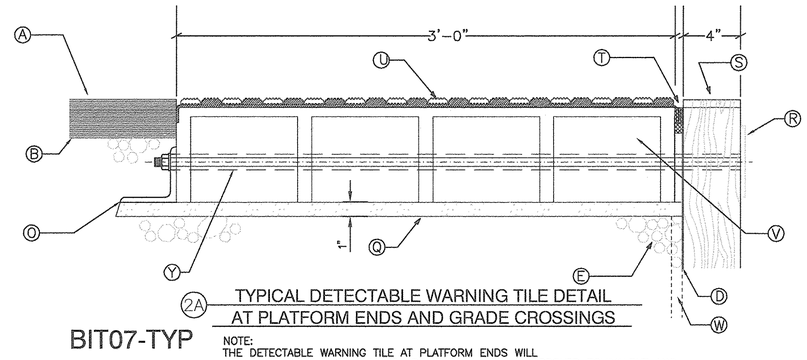


BIT06-TYP

4 TYPICAL PLATFORM SECTION AT PLATFORM ENDS AND GRADE CROSSINGS

LEGEND:

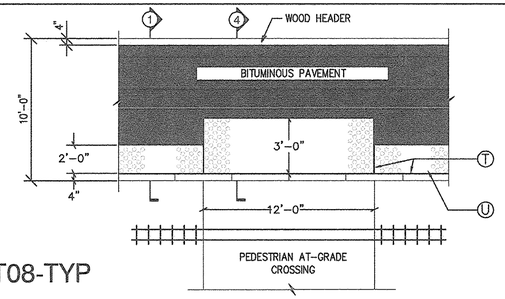
- Ⓐ HMA SURFACE COURSE, MIX "D", N50, 3" (VILLAGE CONTRACTOR TO FURNISH AND INSTALL)
- Ⓑ BITUMINOUS PRIME COAT OVER GRANULAR BASE PER IDOT SPECS (VILLAGE CONTRACTOR TO FURNISH AND INSTALL)
- Ⓒ ¾" ø x 10'-6" GALVANIZED TIE ROD WITH 12" OF THREAD AT EACH END @ 4'-0" C-C (METRA TO FURNISH & INSTALL)
- Ⓓ GEOTECHNICAL FILTER FABRIC 115 MILS WRAPPED TO TOP OF TIMBERS (VILLAGE CONTRACTOR TO FURNISH AND INSTALL)
- Ⓔ GRANULAR BASE, TYPE B, GRADATION CA 6 COMPACED IN 6" LIFTS TO 95% PROCTOR DENSITY. USE 12 ½" DEPTH FOR ALL PLATFORMS. (VILLAGE CONTRACTOR TO FURNISH AND INSTALL)
- Ⓕ 2' W x 8' L x 6" D STRUCTURAL REINFORCED POLYMER COMPOSITE DECK PANEL WITH INTEGRAL DETECTABLE WARNING TILE. (METRA TO FURNISH & INSTALL)
- Ⓖ ¾" ø x 4'-0" STEEL FORM STAKES @ 4'-0" C-C (METRA TO FURNISH & INSTALL)
- Ⓗ ½" ø x 16" GALVANIZED STEEL DOWEL @ 4'-0" C-C (METRA TO FURNISH & INSTALL)
- Ⓘ 6" x 12" x ½" STEEL WASHER PLATE WITH ⅞" ø HOLE AND 2 NAIL HOLES IN OPPOSITE CORNERS. GALVANIZE NUT, WASHER AND PLATE TO PREVENT RUSTING. (METRA TO FURNISH & INSTALL)
- Ⓙ DOUGLAS FIR WOOD HEADERS, CREOSOTE TREATED PER IDOT STANDARD SPECIFICATIONS, ART. 1007.12.
  4" x 12" x 16'-0" - TOP
  4" x 10" x 16'-0" - BOTTOM (METRA TO FURNISH & INSTALL)
- Ⓚ 6" x 6" x ½" STEEL WASHER PLATE WITH 7/8" ø HOLE. GALVANIZE NUT, WASHER AND PLATE TO PREVENT RUSTING. (METRA TO FURNISH & INSTALL)
- Ⓛ 4" x 12" x 4'-0" CREOSOTE TREATED DEADMAN TIMBER TO BE DRIVEN DIRECTLY INTO THE SOIL @ 4'-0" C-C. TOP OF DEADMAN TIMBER SHOULD BE AT LEAST 8" BELOW THE FINISHED PLATFORM SURFACE. DEADMAN TIMBER CONSTRUCTION AS SHOWN SHALL BE USED ALONG ENTIRE LENGTH OF BUILDING OR STRUCTURE. (METRA TO FURNISH & INSTALL)
- Ⓜ 3/4" ø x 7'-0" GALVANIZED TIE RODS WITH 12" OF THREAD AT EACH END PLACED @ 4'-0" C-C, SAME AS STANDARD INSTALLATION. (METRA TO FURNISH & INSTALL)
- Ⓝ PLACE TIE ROD 6" MINIMUM FROM END OF TIMBER. (METRA TO FURNISH & INSTALL)
- Ⓞ 5" x 5" x 5/16" GALVANIZED STL. ANGLE, 6" LONG (METRA TO FURNISH & INSTALL)
- Ⓟ 5/8" ø x 30 5/8" NICKEL PLATED CONNECTING ROD WELDED TO 4" x 3" x ⅜" GALVANIZED PLATE. TREAD INSIDE END 6". (METRA TO FURNISH & INSTALL)
- Ⓠ FA 2 CRUSHED LIMESTONE SCREENING (METRA TO FURNISH AND INSTALL)
- Ⓡ 4" x 3" x ⅜" GALVANIZED PLATE (METRA TO FURNISH & INSTALL)
- Ⓢ CREOSOTE TREATED WOOD HEADER. NOTCH CURB EVERY 48" TO A DEPTH EQUAL TO THE BOTTOM OF THE TRUNCATED DOMES FOR DRAINAGE (FRONT HEADER ONLY). (METRA TO FURNISH & INSTALL)
- Ⓣ ¼" x 1½" EMSEAL EXPANDABLE AST HI ACRYLIC SEALANT (CONTRACTOR TO FURNISH, METRA TO INSTALL)
- Ⓤ DETECTABLE WARNING TILE (METRA TO FURNISH & INSTALL)
- Ⓥ 3' W X 6" D STRUCTURAL REINFORCED POLYMER COMPOSITE DECK PANELS WITH INTEGRAL DETECTABLE WARNING TILE, 8' L AT GRADE CROSSING AND 88" L AT PLATFORM ENDS. (METRA TO FURNISH & INSTALL)
- Ⓦ ¾" ø x 4'-0" GALVANIZED STAKES PLACED AT 12" FROM ENDS AND AT CENTER OF ASSEMBLY (METRA TO FURNISH & INSTALL)
- Ⓧ ½" ø x 16" GALVANIZED STEEL DOWELS PLACED AT 12" FROM ENDS AND AT CENTER OF ASSEMBLY (METRA TO FURNISH & INSTALL)
- Ⓨ ⅝" ø x 42 ⅝" NICKEL PLATED CONNECTING ROD WELDED TO 4" x 3" x ⅜" GALVANIZED PLATE. TREAD INSIDE END 6". (METRA TO FURNISH & INSTALL)
- Ⓩ VILLAGE CONTRACTOR SHALL GRADE AND PREPARE THE GROUND UNDER THE PLATFORM TO BE EVEN WITH THE BOTTOM OF THE TIE. THIS WORK SHALL BE PAID FOR AS EARTH EXCAVATION.



BIT07-TYP

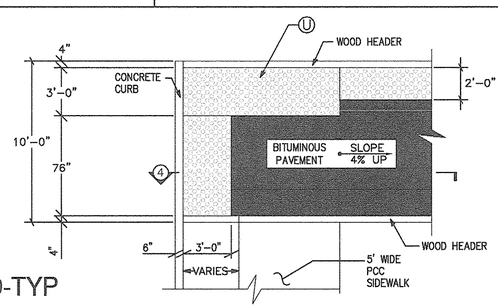
2A TYPICAL DETECTABLE WARNING TILE DETAIL AT PLATFORM ENDS AND GRADE CROSSINGS

NOTE:
THE DETECTABLE WARNING TILE AT PLATFORM ENDS WILL BE ARMOR DECK PART NUMBER ADG-368806 OR AN APPROVED EQUIVALENT AND THE DETECTABLE WARNING TILE AT GRADE CROSSINGS WILL BE ARMOR DECK PART NUMBER ADG-369606 OR AN APPROVED EQUIVALENT.



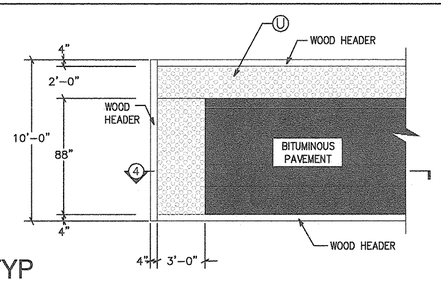
BIT08-TYP

5 DETECTABLE WARNING TILE INSTALLATION PEDESTRIAN AT-GRADE CROSSING



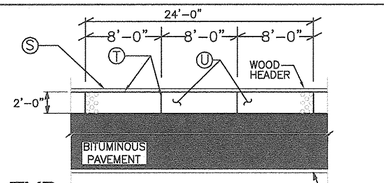
BIT09-TYP

6 DETECTABLE WARNING TILE INSTALLATION AT SIDEWALK



BIT10-TYP

7 DETECTABLE WARNING TILE INSTALLATION PLATFORM ENDS



BIT03-TYP

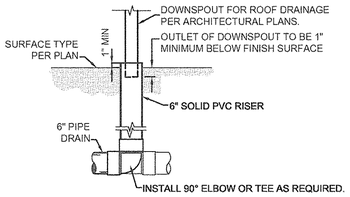
8 TYPICAL TACTILE JOINT-PLAN

FILE NAME = 07552_02-42 FARNSWORTH	USER NAME =	DESIGNED — JLF	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROMEOVILLE METRA STATION PLATFORM AREA METRA PLATFROM DETAILS
		CHECKED — KRS	REVISED —		
	PLOT SCALE =	DRAWN — NDH	REVISED —		SCALE: NONE / SHEET NO. 42 OF 64 SHEETS / STA. / TO STA.
	PLOT DATE = 10-10-2016	CHECKED — BMK	REVISED —		

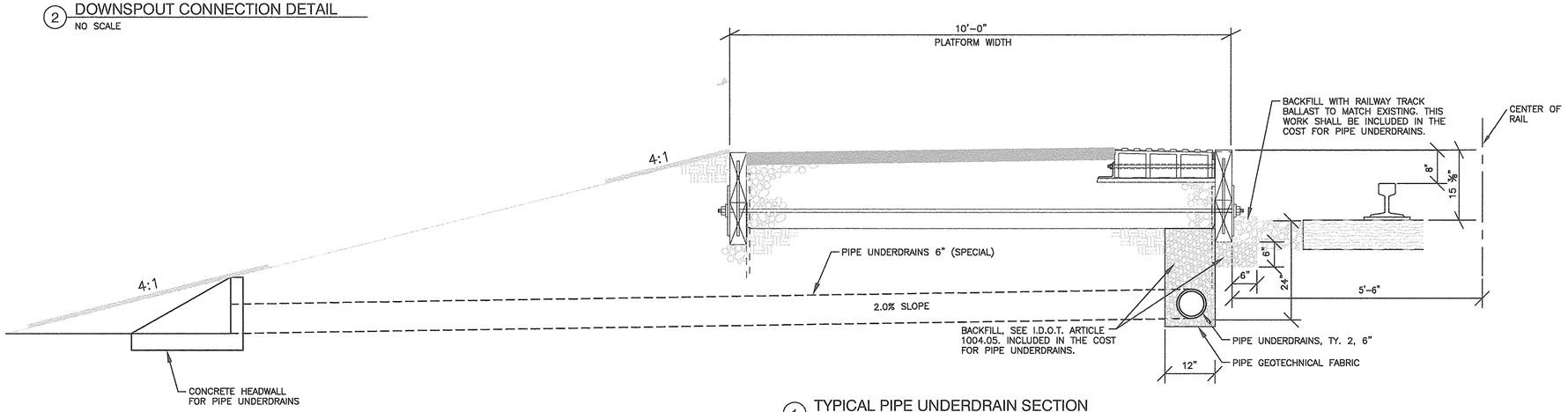
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	42
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

SIGN SCHEDULE

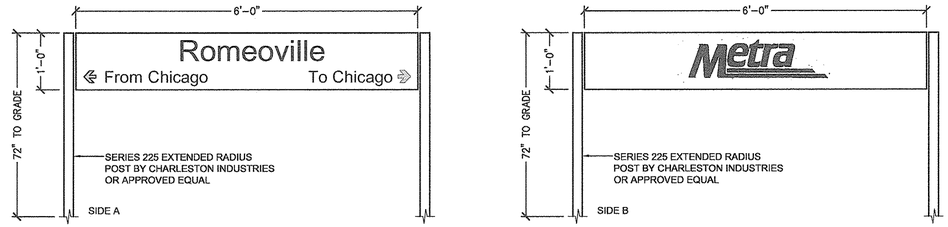
KEY	SIGN TYPE	SIDE A	SIDE B	SIGN SIZE	QUANTITY	#OF SIDES	MOUNTING TYPE	MOUNTING HEIGHT
01	2A	ROMEOVILLE ⇦From Chicago To Chicago⇨	METRA	12"H x 72" W	3	2	POST	72" FROM GRADE TO BOTTOM OF SIGN
02	2A	ROMEOVILLE ⇦To Chicago From Chicago⇨	METRA	12"H x 72" W	2	2	POST	72" FROM GRADE TO BOTTOM OF SIGN



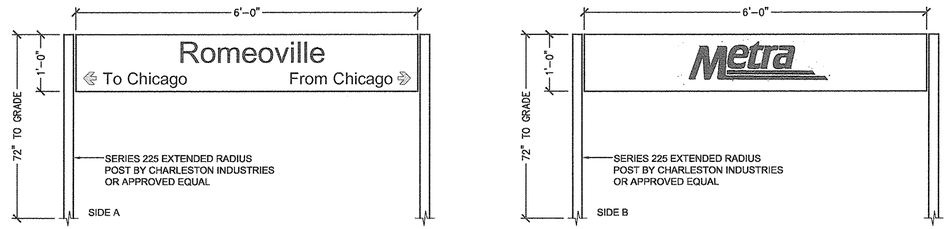
(2) DOWNSPOUT CONNECTION DETAIL
NO SCALE



(1) TYPICAL PIPE UNDERDRAIN SECTION
NO SCALE



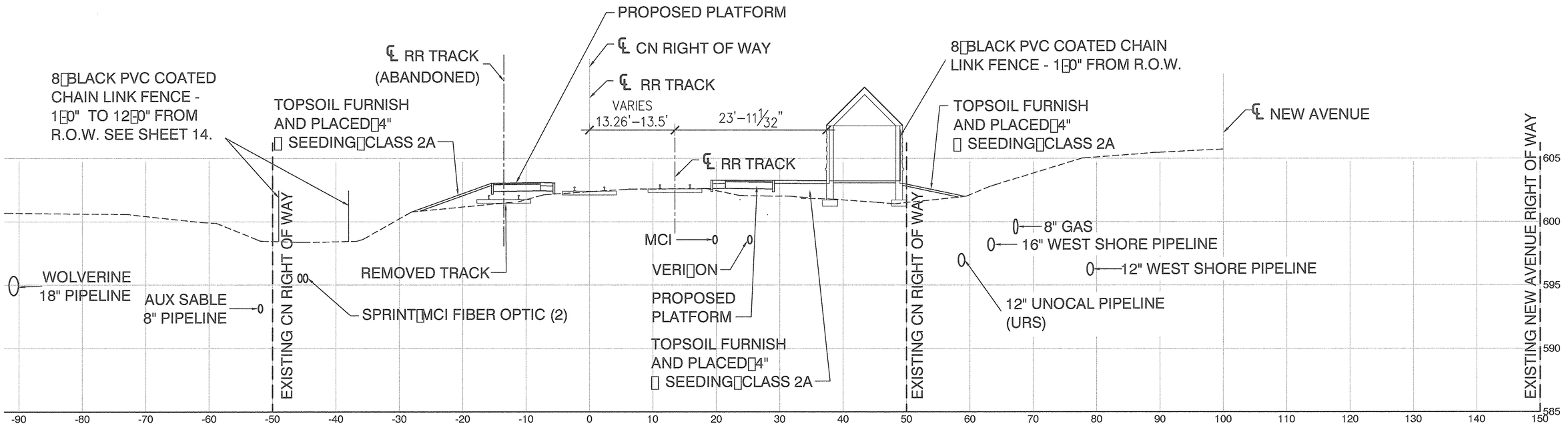
(3) WAYFINDING SIGN ▯1 TYPE 2A
NO SCALE



(4) WAYFINDING SIGN ▯2 TYPE 2A
NO SCALE

FILE NAME = 07552_02-43 FARNSWORTH	USER NAME =	DESIGNED — JLF	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROMEOVILLE METRA STATION PLATFORM AREA DETAILS			
		CHECKED — KRS	REVISED —					
	PLOT SCALE =	DRAWN — NDH	REVISED —					
	PLOT DATE = 10-10-2016	CHECKED — BMK	REVISED —		SCALE: NONE	SHEET NO. 43 OF 64 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	43
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		



NOTE: SEE LANDSCAPE PLANS FOR SEEDING LOCATIONS.

1 **Section at Station**
Scale: 1/8"=1'-0"

FILE NAME = 07552_02-44 FARNSWORTH	USER NAME =	DESIGNED — JLF	REVISED —
		CHECKED — KRS	REVISED —
	PLOT SCALE =	DRAWN — NDH	REVISED —
	PLOT DATE = 10-10-2016	CHECKED — BMK	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROMEOVILLE METRA STATION
PLATFORM AREA
METRA STATION SECTION

SCALE: H1[8"=1□]V1"=5□ | SHEET NO. 44 OF 64 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	44
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

SECTION 2, TOWNSHIP 36, RANGE 10

DESIGN CRITERIA:

1. THE STRUCTURAL ENGINEERING DESIGN IS BASED ON AND IN ACCORDANCE WITH THE FOLLOWING CODE:

   INTERNATIONAL BUILDING CODE - 2009

2. UNLESS OTHERWISE SHOWN OR NOTED ON THE DRAWINGS, THE STRUCTURAL DESIGN IS BASED ON THE FOLLOWING TYPICAL UNIFORM LOADS:

DEAD LOADS	ROOF TOP CHORD	=	24	PSF
	ROOF BOTT CHORD	=	3	PSF
LIVE LOADS	ROOF TOP CHORD	=	20	PSF
	ROOF BOTT CHORD	=	0	PSF
SNOW LOADS	Pg	=	20	PSF
	Pf	=	16.8	PSF
	Ce	=	1.0	
	I	=	1.0	
	Ct	=	1.2	
	UNBALANCED SNOW:			
	WINDWARD	=	5 PSF	
	LEEWARD	=	23 PSF FROM RIDGE TO 1' AWAY	
		=	16.8 PSF FROM 1' FROM RIDGE TO EAVE	
WIND DESIGN DATA	V	=	90	MPH
	I	=	1.0	
EXPOSURE CATEGORY		=	C	
	GCpi	=	(+/-)0.18	

COMPONENTS AND CLADDING

ZONE	EFFECTIVE WIND AREA (SF)		
1	10	=	+16.2/-17.7
	20	=	+15.7/-16.8
	50	=	+15.1/-15.6
	100	=	+14.7/-14.7
2	10	=	+16.2/-20.6
	20	=	+15.7/-19.7
	50	=	+15.1/-18.6
	100	=	+14.7/-17.7
3	10	=	+16.2/-20.6
	20	=	+15.7/-19.7
	50	=	+15.1/-18.6
	100	=	+14.7/-17.7
4	10	=	+17.7/-19.2
	20	=	+16.9/-18.4
	50	=	+15.8/-17.3
	100	=	+15.0/-16.5
	500	=	+13.2/-14.7
5	10	=	+17.7/-23.6
	20	=	+16.9/-22.0
	50	=	+15.8/-19.9
	100	=	+15.0/-18.4
	500	=	+13.2/-14.7

EARTHQUAKE DESIGN DATA	I	=	1.0
OCCUPANCY CATEGORY		=	II
	Ss	=	0.192
	S1	=	0.065
SITE CLASS		=	D
	SDS	=	0.205
	SD1	=	0.104
	SDC	=	B
BASIC SEISMIC-FORCE-RESISTING SYSTEM		=	ORDINARY REINFORCED MASONRY CANTILEVER WALLS
	R	=	2
	Cs	=	0.102
	V	=	0.102W
ANALYSIS PROCEDURE		=	EQUIVALENT LATERAL-FORCE ANALYSIS

FOUNDATIONS:

1. ALL FOOTINGS SHALL REST ON UNDISTURBED SOIL OR COMPACTED FILL WHICH HAS A MINIMUM ALLOWABLE BEARING CAPACITY EQUAL TO OR GREATER THAN THAT SHOWN ON THE FOUNDATION PLAN.
2. ALL FOOTING ELEVATIONS SHOWN ON THE DRAWINGS MEET THE REQUIRED DEPTHS FOR BEARING AND/OR FROST PROTECTION. ACTUAL FIELD CONDITIONS MAY REQUIRE ADDITIONAL EXCAVATION AND/OR COMPACTED FILL.
3. BACKFILL SHALL BE PLACED AND COMPACTED UNIFORMLY ON EACH SIDE OF MASONRY FOUNDATION WALLS SUCH THAT NO UNBALANCED LATERAL LOADS ARE INDUCED TO THE WALL.

GENERAL CONSTRUCTION:

1. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO SIMILAR CONDITIONS ELSEWHERE.
2. THE CONTRACTOR SHALL FIELD CHECK AND VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK; SEE SPECIFICATIONS.
3. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE SCOPE OF THE WORK AND SOIL AND WATER CONDITIONS BEFORE PROCEEDING WITH THE WORK. SOIL BORING LOCATIONS AND SOIL BORING LOGS ARE INCLUDED IN THE SPECIFICATIONS. SOIL INFORMATION RELEASED IN THE SPECIFICATIONS IS FOR GENERAL INFORMATION ONLY. THE ACTUAL CONDITIONS MAY VARY AT THE SITE.
4. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN CONSTRUCTION DOCUMENTS AND ACTUAL FIELD CONDITIONS.
5. VERIFY SIZE AND LOCATIONS OF HOLES AND SLEEVES THROUGH MASONRY AND CONCRETE SLABS WITH MECHANICAL AND PLUMBING CONTRACTORS.
6. GROUT BELOW BEAM BEARING SHALL BE IN PLACE AND PROPERLY CURED PRIOR TO ANY APPLICATION OF LOAD TO THE SUPPORTED MEMBER.
7. ALL LATERAL LOAD RESISTANCE AND STABILITY OF THE BUILDING IN THE COMPLETED STRUCTURE IS PROVIDED EXCLUSIVELY BY REINFORCED MASONRY CANTILEVER WALLS. THESE WALLS PROVIDE ALL LATERAL LOAD RESISTANCE IN EACH ORTHOGONAL BUILDING DIRECTION. THE WOOD DECK SERVES AS A HORIZONTAL DIAPHRAGM THAT DISTRIBUTES THE LATERAL WIND AND SEISMIC FORCES HORIZONTALLY TO THE CANTILEVER WALLS. THE CANTILEVER WALLS CARRY THE APPLIED LATERAL LOADS TO THE BUILDING FOUNDATION.

STRUCTURAL CONCRETE NOTES FOR FOOTINGS, FOUNDATION WALLS, AND SLAB ON GRADE:

1. REINFORCED CONCRETE DESIGNED IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) BY THE AMERICAN CONCRETE INSTITUTE.
2. REINFORCING BAR DETAILING, FABRICATING, AND PLACING SHALL CONFORM TO THE CONCRETE REINFORCING STEEL INSTITUTE'S "REINFORCING BAR DETAILING" AND "PLACING REINFORCING BARS".
3. MINIMUM CONCRETE COMPRESSIVE STRENGTH (F'C) AT 28 DAYS:

FOOTINGS	3000 PSI
FOUNDATION WALLS	4000 PSI
SLABS ON GRADE	4000 PSI

4. CONCRETE REINFORCEMENT:

   DEFORMED BARS - NEW BILLET STEEL COMPLYING WITH ASTM A615 AND HAVING A MINIMUM YIELD STRENGTH OF 60000 PSI.

   WELDED WIRE FABRIC - SMOOTH WIRE FABRIC COMPLYING WITH ASTM A185

5. CONCRETE PROTECTION FOR REINFORCEMENT:

   UNLESS OTHERWISE SHOWN THE CLEAR DISTANCE FROM THE FACE OF CONCRETE TO THE REINFORCING STEEL SHALL BE:

CONCRETE POURED AGAINST GROUND (NOTE A)	3"
CONCRETE POURED AGAINST FORMS (NOTE A, B):	
#6 BARS OR LARGER	2"
SMALLER THAN #6 BARS	1 1/2"
SLABS POURED TO FORMS:	
FORMED SURFACE (NOTE B)	3/4"
TROWELED SURFACE (NOTE B)	1"
SCREEDED SURFACE FOR APPLIED TOPPING	3/4"
SLABS POURED ON GRADE:	
FROM BOTTOM SURFACE	2"
TROWELED SURFACE (NOTE B)	1"
SCREEDED SURFACE FOR APPLIED TOPPING	3/4"

(NOTE A) EXCLUDING SLABS POURED ON GRADE.
(NOTE B) INCREASE BY 1/2" IF SURFACE IS TO BE IN PERMANENT CONTACT WITH GROUND OR WATER.

6. UNLESS OTHERWISE SHOWN OR NOTED, SPLICING OF REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 SECTIONS 12.14 THROUGH 12.17. SPLICING OF WELDED WIRE FABRIC SHALL CONFORM TO ACI 318 SECTIONS 12.18 AND 12.19.
7. ALL HORIZONTAL BARS IN WALLS SHALL BE BENT AT CORNERS AND INTERSECTIONS IN SUCH A WAY THAT CONTINUITY IS PROVIDED THROUGH THE JOINT. SEPARATE CORNER BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL REINFORCING MAY BE SUBSTITUTED FOR THE BENT PORTION OF THE CONTINUOUS BAR.
8. USE OF CONSTRUCTION JOINTS AT LOCATIONS OTHER THAN THOSE INDICATED ON THE DRAWINGS SHALL REQUIRE PRIOR APPROVAL OF THE ENGINEER.
9. ALL KEYS FOR CONSTRUCTION JOINTS SHALL BE 2" X 4" (NOMINAL) UNLESS OTHERWISE SHOWN OR NOTED ON THE DRAWINGS.

WOOD:

1. ENGINEERED TIMBER CONSTRUCTION DESIGNED IN ACCORDANCE WITH THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" BY THE NATIONAL FOREST PRODUCTS ASSOCIATION DATED 2005.
2. STRUCTURAL WOOD MEMBERS WITH ARE 2" TO 4" THICK AND WIDER SHALL BE DOUGLAS FIR LARCH NO.2 AND HAVE THE FOLLOWING MINIMUM PROPERTIES:

Fb (SINGLE MEMBER USE)	875 PSI
Fc (PARALLEL TO GRAIN)	1150 PSI
Fc (PERPENDICULAR TO GRAIN)	425 PSI
Fv	135 PSI
E	1,400,000 PSI

MASONRY:

1. ENGINEERED MASONRY DESIGNED IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (ACI 530-11/ASCE 5-11/TMS 402-11) BY THE AMERICAN CONCRETE INSTITUTE, THE AMERICAN SOCIETY OF CIVIL ENGINEERS, AND THE MASONRY SOCIETY.
2. DESIGN COMPRESSIVE STRENGTH OF MASONRY UNITS (F'm):
   A. CONCRETE MASONRY ..... 1500 PSI
   B. FACE AND COMMON BRICK ..... 2000 PSI
3. MINIMUM COMPRESSIVE STRENGTH (F'C) AT 28 DAYS:
   A. BELOW GRADE - TYPE M MORTAR, ASTM C270 . . 2500 PSI
   B. ABOVE GRADE - TYPE S MORTAR, ASTM C270 . . 1800 PSI
   C. GROUT, ASTM C476 ..... 2500 PSI
4. MASONRY REINFORCEMENT:
   A. BOND BEAMS AND ALL VERTICAL REINFORCEMENT SHALL BE NEW BILLET STEEL COMPLYING WITH ASTM A615 AND HAVING MINIMUM YIELD STRENGTH OF 60,000 PSI.
   B. BED JOINT REINFORCEMENT:
      1. CONTINUOUS HORIZONTAL WIRE TIES SHALL BE PLACED SUCH THAT THE DISTANCE BETWEEN THE FACE OF THE MASONRY WALL AND THE PARALLEL WIRE IS NOT MORE THAN ONE INCH.
      2. THE PARALLEL WIRES SHALL CONFORM TO ASTM A82 AND HAVE A MINIMUM YIELD STRESS OF 70.0 KSI.
      3. SINGLE WYTHE BLOCK SHALL HAVE (2)#9 GAGE DEFORMED WIRES, (1) AT EACH FACE SHELL, TRUSS TIED.
      4. DOUBLE WYTHE BLOCK/BRICK SHALL HAVE (3)#9 GAGE DEFORMED WIRES, (1) AT EACH BLOCK FACE SHELL AND (1) AT BRICK WYTHE, LADDER TIED AND (2)#9 GAGE DEFORMED WIRES, (1) AT EACH WYTHE, LADDER TIED.
5. WHERE A DOUBLE WYTHE WALL IS SHOWN OR INDICATED NOT TO CONTAIN A CAVITY, THE INTERFACE BETWEEN TWO WYTHES SHALL BE GROUTED SOLID.
6. UNLESS OTHERWISE SHOWN OR NOTED, REINFORCING STEEL SHALL BE LAPPED 48 BAR DIAMETERS, MINIMUM.
7. USE NORMAL WEIGHT CONCRETE MASONRY UNITS BELOW GRADE AND LIGHTWEIGHT CONCRETE MASONRY UNITS ABOVE GRADE UNLESS OTHERWISE SHOWN OR NOTED.
8. ALL REINFORCED CORES SHALL BE GROUTED SOLID.
9. BEARINGS FOR BEAMS, LINTELS, JOISTS, ETC., SHALL BE HOLLOW MASONRY UNITS REINFORCED WITH TYPICAL WALL REINFORCEMENT. SEE TYPICAL DETAILS.
10. UNLESS OTHERWISE NOTED EXPANSION JOINTS SHALL BE PLACE IN CONCRETE MASONRY WALLS AT A MAXIMUM SPACING OF THE LESSER OF 3 TIMES THE WALL HEIGHT OR 25 FEET BUT NOT WITHIN MASONRY JAMBS OR THROUGH LINTELS.
11. REINFORCE CELLS BOTH SIDES OF CONTROL JOINTS WITH TYPICAL WALL REINFORCEMENT.
12. BOND BEAMS SHALL BE CONTINUOUS AT CORNERS. PROVIDE CORNER BARS WITH MINIMUM 48 BAR DIAMETERS LAP.
13. BOND BEAMS SHALL BE CONTINUOUS AT VERTICAL CONTROL JOINTS.
14. PROVIDE LINTELS FOR ALL OPENINGS AND RECESSES NOT OTHERWISE DETAILED OR SCHEDULED AS FOLLOWS:

    1 - L 5 X 3 1/2 X 5/16 FOR EACH 4" OF MASONRY WIDTH WITH A MAXIMUM SPAN OF 8'-0"
    1 - WT 4 X 9 FOR EACH 6" MASONRY WIDTH WITH A MAXIMUM SPAN OF 8'-0"
    1 - C 8 X 11.5 WITH PLATE 5/16 X 9 FOR 10" MASONRY WIDTH WITH A MAXIMUM SPAN OF 8'-0"
    FOR SPANS OF LESS THAN 2'-0", USE 5/16" PLATE X MASONRY WIDTH LESS THAN 1".

15. PROVIDE MINIMUM 8" BEARING FOR BEAMS OR LINTELS WITH SPANS 4'-0" OR LARGER AND 6" BEARING ON SPANS LESS THAN 4'-0", UNLESS OTHERWISE DETAILED ON THE DRAWINGS.

WOOD ROOF TRUSSES:

1. TIMBER TRUSSES ARE DELEGATED DESIGN BY TRUSS MANUFACTURER.
2. TIMBER TRUSS MEMBERS AND BOLTED CONNECTIONS SHALL WITHSTAND THE EFFECTS OF GRAVITY AND LATERAL STRUCTURAL DESIGN CRITERIA AS SHOWN ON THIS SHEET AND SHALL COMPLY WITH ASCE 7, AF&PA NDS, TFEC1, AND TCM.
3. TIMBER MEMBERS SHALL BE S4S DRESSED DOUGLAS FIR LARCH STRUCTURAL SELECT AND HAVE THE FOLLOWING MINIMUM PROPERTIES:

Fb (SINGLE MEMBER USE)	1500 PSI
Fc (PARALLEL TO GRAIN)	1700 PSI
Fc (PERPENDICULAR TO GRAIN)	625 PSI
Fv	180 PSI
E	1,900,000 PSI

4. METAL PLATE CONNECTED ROOF TRUSSES SHALL BE DELEGATED DESIGN BY TRUSS MANUFACTURER IN ACCORDANCE WITH ANSI/TPI "NATIONAL DESIGN STNADARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION" TPI HIB COMMENTARY AND RECOMMENDATIONS FOR HANDLING, INSTALLING, AND BRACING METAL PLATE CONNECTED WOOD TRUSSES", AND TPI DSB "RECOMMENDED DESIGN SPECIFICATION FOR TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES."
5. THE CONTRACTOR SHALL PROVIDE CONTINUOUS LATERAL BRACING AS REQUIRED BY THE TRUSS MANUFACTURER'S TRUSS DESIGN DRAWINGS AND BCSI-B3. ALL CONTINUOUS PERMANENT BRACING SHALL BE DIAGONALLY BRACED AT 20'-0" O.C. MAXIMUM, ONCE MINIMUM.
6. SHOP DRAWINGS SHALL SHOW LOCATION, PITCH, SPAN, CAMBER, CONFIGURATION, AND SPACING FOR EACH TYPE OF TRUSS REQUIRED. INDICATE SIZES, STRESS GRADES, AND SPECIES OF LUMBER.
7. TRUSSES, TRUSS BRACING, AND TRUSS TO TRUSS CONNECTIONS SHALL BE DELEGATED DESIGN. SUBMIT ANALYSIS DATA SIGNED AND SEALED BY THE QUALIFIED STRUCTURAL ENGINEER RESPONSIBLE FOR THEIR PREPARATION. DELEGATED DESIGN INCLUDES MEMBER SIZES OF TRUSS AS WELL AS PERMANENT BRACING REQUIRED TO PREVENT BUCKLING OF INDIVIDUAL TRUSS MEMBERS DUE TO DESIGN LOADS.
8. MAXIMUM VERTICAL DEFLECTION:
   ROOF TRUSSES - L/240 FOR TOTAL LOAD AND L/360 FOR LIVE LOAD.
9. LUMBER: DOC PS 20 AND APPLICABLE RULES OF ANY RULES-WRITING AGENCY CERTIFIED BY THE AMERICAN LUMBER STANDARD COMMITTEE (ALSC) BOARD OF REVIEW. PROVIDE LUMBER GRADED BY AN AGENCY CERTIFIED BY THE ALSC BOARD OF REVIEW TO INSPECT AND GRADE LUMBER UNDER THE RULES INDICATED.
   1. PROVIDE DRY LUMBER WITH 19% MAXIMUM MOISTURE CONTENT AT TIME OF DRESSING.

LICENSED STRUCTURAL ENGINEER
PAIGE M. HEFNER
081-008570
STATE OF ILLINOIS
10/10/16

FILE NAME =	USER NAME =	DESIGNED - PND	REVISED -	
		CHECKED - PMH	REVISED -	
	PLOT SCALE =	DRAWN - PND	REVISED -	
	PLOT DATE = 10/10/16	CHECKED - PMH	REVISED -	

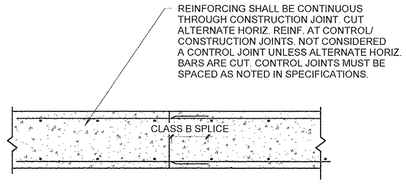
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROMEOVILLE METRA STATION
PLATFORM AREA
GENERAL STRUCTURAL NOTES

SCALE: | SHEET NO. 45 OF 64 SHEETS | STA. | TO STA.

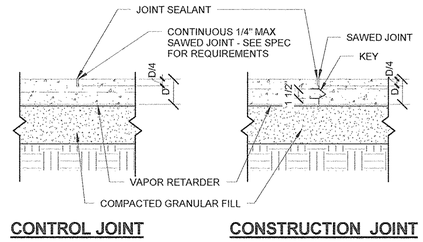
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	45
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

SECTION 2, TOWNSHIP 36, RANGE 10



7 Wall Construction/Control Joint Detail

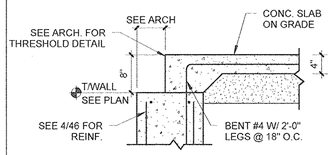
Scale: 3/4" = 1'-0"



CONTROL JOINT CONSTRUCTION JOINT

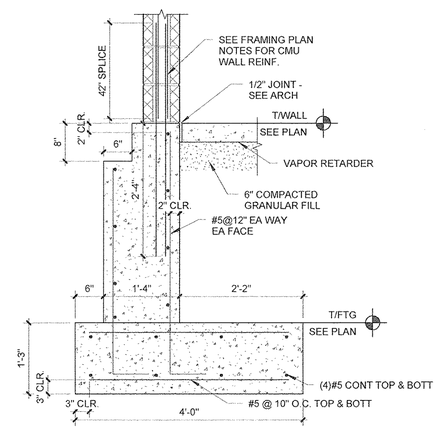
6 Slab Joint Details

Scale: 1" = 1'-0"



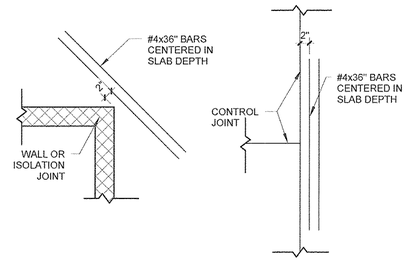
5 Typ Detail at Exterior Opening

Scale: 3/4" = 1'-0"



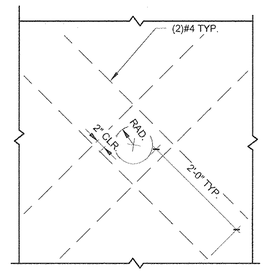
4 Typical Foundation Section

Scale: 3/4" = 1'-0"



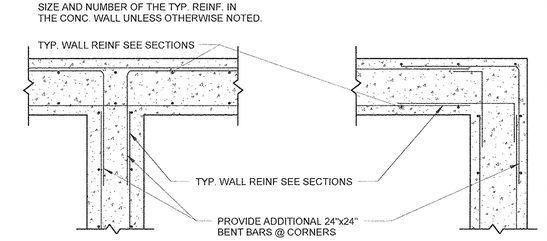
3 Typical Slab Crack Control Details

Scale: 3/4" = 1'-0"



2 Sleeve Through Concrete Wall

Scale: 3/4" = 1'-0"



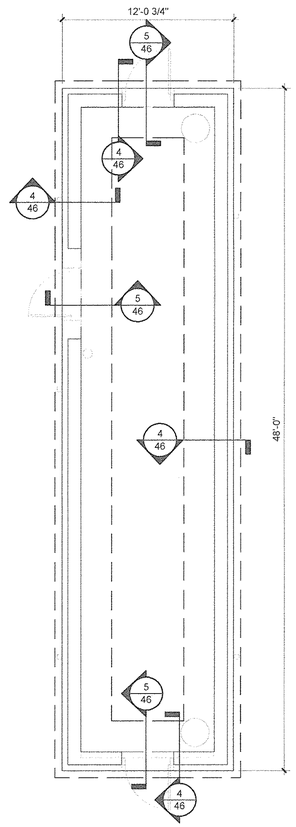
@ INTERSECTIONS @ CORNERS

1 Wall Intersection - Double Reinforcement

Scale: 3/4" = 1'-0"

FOUNDATION PLAN NOTES:

1. SEE 45 FOR GENERAL STRUCTURAL NOTES.
2. DESIGN SOIL BEARING PRESSURE IS 1500 PSF.
3. SEE ARCHITECTURAL FOR DIMENSIONS NOT SHOWN.
4. SEE ARCHITECTURAL FOR FLOOR SLAB SLOPE REQUIREMENTS.
5. COMPACTED FILL UNDER SLAB ON GRADE SHALL BE 6" CA7 OR CA11 UNLESS OTHERWISE SHOWN ON DRAWINGS OR AS RECOMMENDED BY A GEOTECHNICAL ENGINEER.
6. T/FOOTING ELEVATION = (-)3'-0" UNLESS OTHERWISE NOTED.
7. T/SLAB ELEVATION = 0'-0" UNLESS OTHERWISE NOTED.
8. TYP. T/ FOUNDATION WALL ELEV. = 0'-0" UNLESS OTHERWISE NOTED.
9. TYP. T/BRICK LEDGE ELEVATION = (-)0'-8" UNLESS OTHERWISE NOTED ON THIS PLAN.
10. SEE 7/46 FOR FOUNDATION WALL CONSTRUCTION JOINT.
11. SEE 1/46 FOR TYPICAL CORNER AND WALL INTERSECTION REINFORCEMENT.
12. SLAB ON GRADE SHALL BE 4" CAST IN PLACE CONCRETE REINFORCED WITH WWF 6X6XW2.9XW2.9 UNLESS OTHERWISE NOTED.
13. INSTALL CONTROL/CONSTRUCTION JOINTS AT A MAX. JOINT SPACING OF 15' AND A MAX ASPECT RATIO OF 1.5:1. SEE DETAIL 6/46.
14. SEE DETAIL 3/46 FOR SLAB CRACK CONTROL DETAILS.
15. COORDINATE ALL FLOOR SLAB AND FOUNDATION WALL OPENINGS WITH OTHER TRADES. SEE DETAIL 2/46 FOR TYPICAL WALL SLEEVE DETAIL.



Foundation Plan

Scale: 3/16" = 1'-0"

FILE NAME =	USER NAME =	DESIGNED - PND	REVISED -	
		CHECKED - PMH	REVISED -	
	PLOT SCALE =	DRAWN - PND	REVISED -	
	PLOT DATE = 10/10/16	CHECKED - PMH	REVISED -	

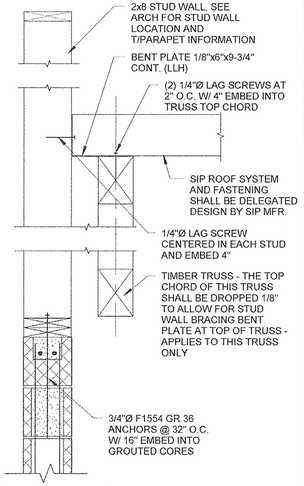
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROMEOVILLE METRA STATION
PLATFORM AREA
FOUNDATION PLAN AND DETAILS

SCALE: | SHEET NO. 46 OF 64 SHEETS | STA. | TO STA.

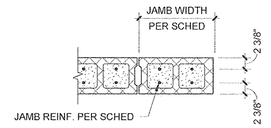
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	46
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

SECTION 2, TOWNSHIP 36, RANGE 10



7 Parapet Condition

Scale: 1" = 1'-0"

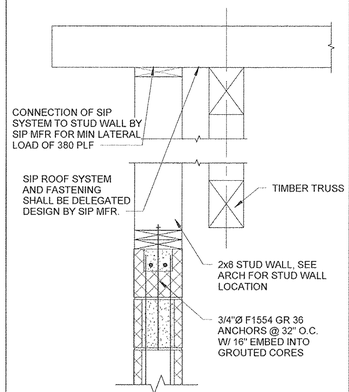


OPENING WIDTH	JAMB WIDTH	JAMB REINF. PER CELL
0'-0" TO 4'-0"	*32"	(2)#7
6'-4"	40"	(2)#7

NOTE: DO NOT LOCATE MASONRY CONTROL JOINTS WITHIN JAMB WIDTH.
* REMAINDER OF WALL AT BUILDING CORNER

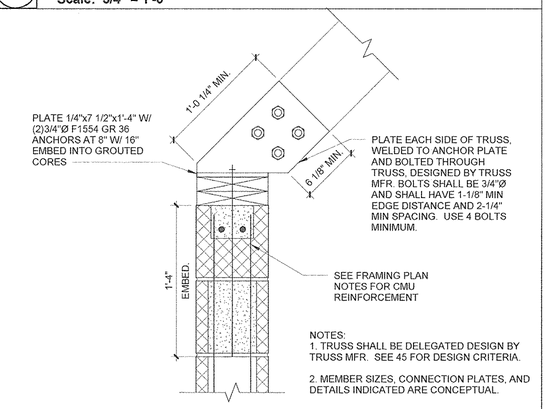
4 Masonry Jamb Detail

Scale: 3/4" = 1'-0"



6 Overhang Condition

Scale: 1" = 1'-0"

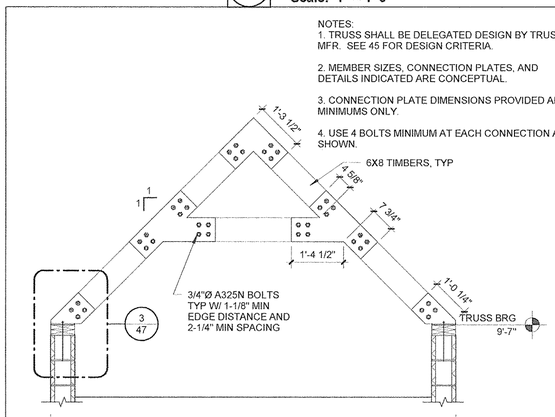


NOTES:
1. TRUSS SHALL BE DELEGATED DESIGN BY TRUSS MFR. SEE 45 FOR DESIGN CRITERIA.

2. MEMBER SIZES, CONNECTION PLATES, AND DETAILS INDICATED ARE CONCEPTUAL.

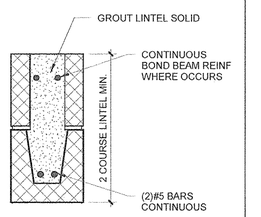
3 Truss Bearing Detail

Scale: 1 1/2" = 1'-0"



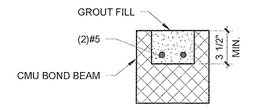
5 Truss Profile

Scale: 1/2" = 1'-0"



2 Typ. CMU Lintel

Scale: 1 1/2" = 1'-0"

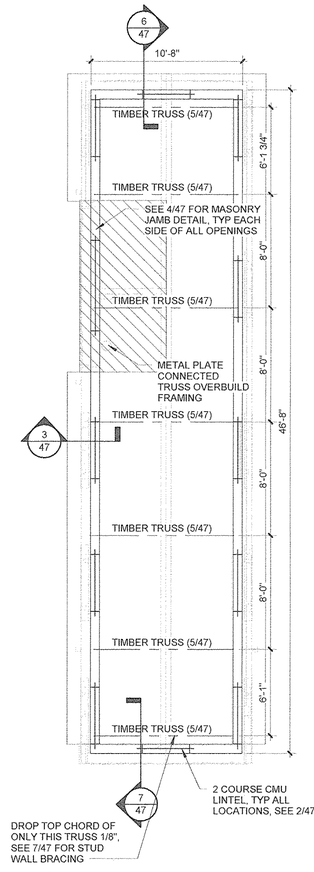


1 Typ. CMU Bond Beam

Scale: 1 1/2" = 1'-0"

FRAMING PLAN NOTES:

1. SEE 45 FOR GENERAL STRUCTURAL NOTES.
2. SEE ARCHITECTURAL FOR DIMENSIONS NOT SHOWN.
3. ROOF CONSTRUCTION SHALL BE 6 5/8" STRUCTURAL INSULATED PANEL (SIP) SYSTEM INCLUDING 1X FRAMING AND SHEATHING WITH FASTENING, WHICH HAS A MINIMUM SHEAR CAPACITY OF 380 PLF. CONNECTION OF SYSTEM TO SUPPORT TRUSS PER MFR.
4. COORDINATE SIZES AND LOCATIONS OF OPENINGS THROUGH ROOF DECK WITH MECHANICAL CONTRACTOR.
5. TYPICAL CMU REINFORCEMENT SHALL BE (2)#7 @ 8" O.C. UNLESS OTHERWISE NOTED. SEE 4/47 FOR MASONRY JAMB REINFORCEMENT
6. SEE 2/47 FOR CMU LINTEL AT ALL OPENINGS
7. SEE 1/47 FOR TYPICAL BOND BEAM



Roof Framing Plan

Scale: 3/16" = 1'-0"

FILE NAME =	USER NAME =	DESIGNED - PND	REVISED -
		CHECKED - PMH	REVISED -
	PLOT SCALE =	DRAWN - PND	REVISED -
	PLOT DATE = 10/10/16	CHECKED - PMH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROMEOVILLE METRA STATION
PLATFORM AREA
FRAMING PLAN AND DETAILS

SCALE: | SHEET NO. 47 OF 64 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	47
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

SECTION 2, TOWNSHIP 36, RANGE 10

Code Information

PROPOSED USE:

OWNED BY: ☐ PRIVATE
☐ LOCAL GOVERNMENT
☐ CITY/COUNTY
☒ STATE

CODE ENFORCEMENT JURISDICTION: ☒ CITY
☐ COUNTY

APPLICABLE CODES:

2009 INTERNATIONAL BUILDING CODE
2015 INTERNATIONAL ENERGY CONSERVATION CODE
2009 INTERNATIONAL MECHANICAL CODE
2009 INTERNATIONAL FIRE CODE
2011 NATIONAL ELECTRIC CODE
2004 ILLINOIS PLUMBING CODE
ILLINOIS ACCESSIBILITY CODE

GENERAL CODE INFORMATION:

CONSTRUCTION TYPE: VB

PRIMARY OCCUPANCY: A-3

SECONDARY OCCUPANCY: N/A

☒ NEW CONSTRUCTION
☐ RENOVATION (EXISTING BUILDING)
☐ MIXED CONSTRUCTION
☐ SPRINKLERED
☐ MEZZANINE
☐ MIXED OCCUPANCY

AREA AND HEIGHT REQUIREMENTS:

AREA TOTAL = 576 SF

AREA ALLOWED = 6,000 SF Per Story

BUILDING HEIGHT = 16'-10"

ALLOWABLE HEIGHT = 40'-0"

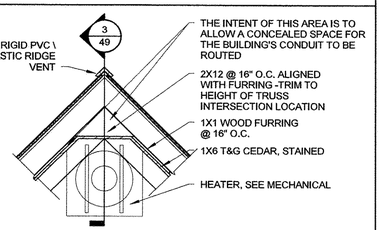
EGRESS INFORMATION	
GROSS BUILDING AREA (OUTSIDE FACE WALLS)	576 SF
GROSS MEASURED AREA (INTERIOR FACE WALLS)	424 SF
OCCUPANT LOAD (per IBC TABLE 1004.1.1)	576 GSF/5 = 85 PPL TOTAL OCCUPANCY = 85 PEOPLE
EGRESS WIDTH (per IBC 1005.1)	EXIT DOORS = 33"/(0.20) = 165 PPL
COMMON PATH OF TRAVEL (per IBC 1014.3)	125'-0" MAXIMUM
EXIT ACCESS TRAVEL (per IBC TABLE 1016.1)	200'-0" MAXIMUM DISTANCE
DEAD-END CORRIDOR (per IBC 1018.4)	20'-0" MAXIMUM
REQUIRED # OF EXITS (per IBC 1015.1)	2 EXITS
REQUIRED DISTANCE BETWEEN EXITS	23'-0" MINIMUM

LICENSED ARCHITECT
BOND S. WAGNER
001.020776
STATE OF ILLINOIS

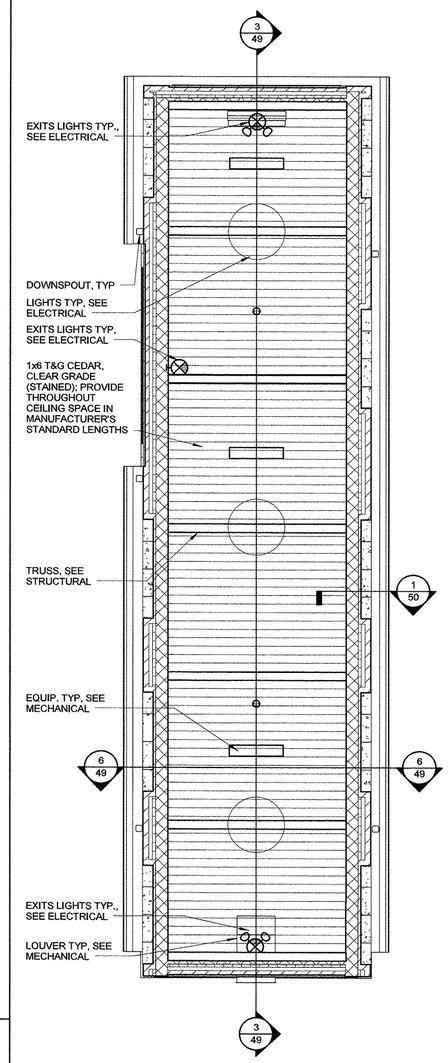
THE PORTION OF THIS TECHNICAL SUBMISSION DESCRIBED BELOW WAS PREPARED BY ME, OR UNDER MY DIRECT PERSONAL SUPERVISION. I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF ILLINOIS.

SIGNATURE: [signature]
NAME: Bond Wagner
DATE: 10/10/2016
LICENSE RENEWAL DATE: 11/30/2016

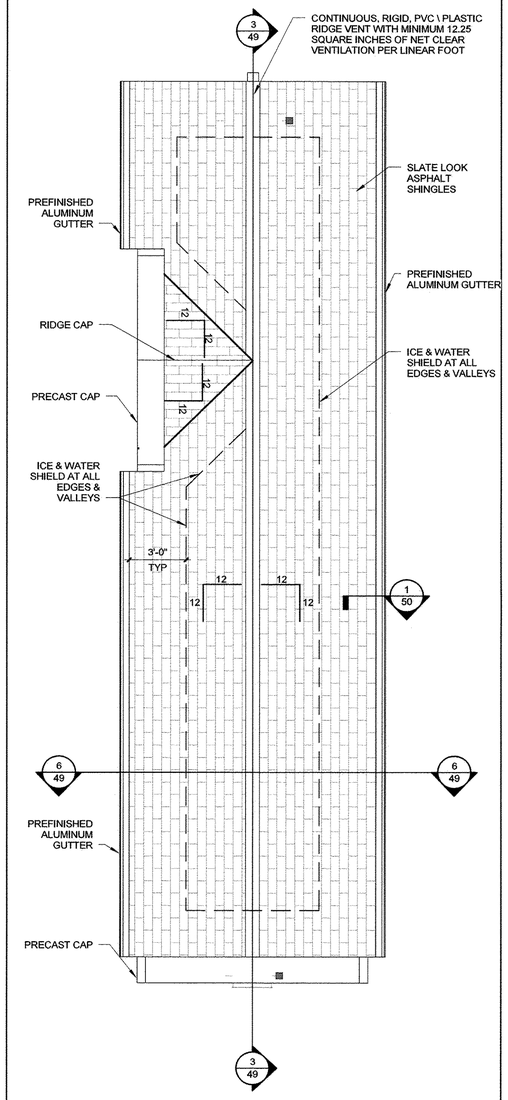
PAGES OR DIVISIONS COVERED:
Pages 48, 49, 50



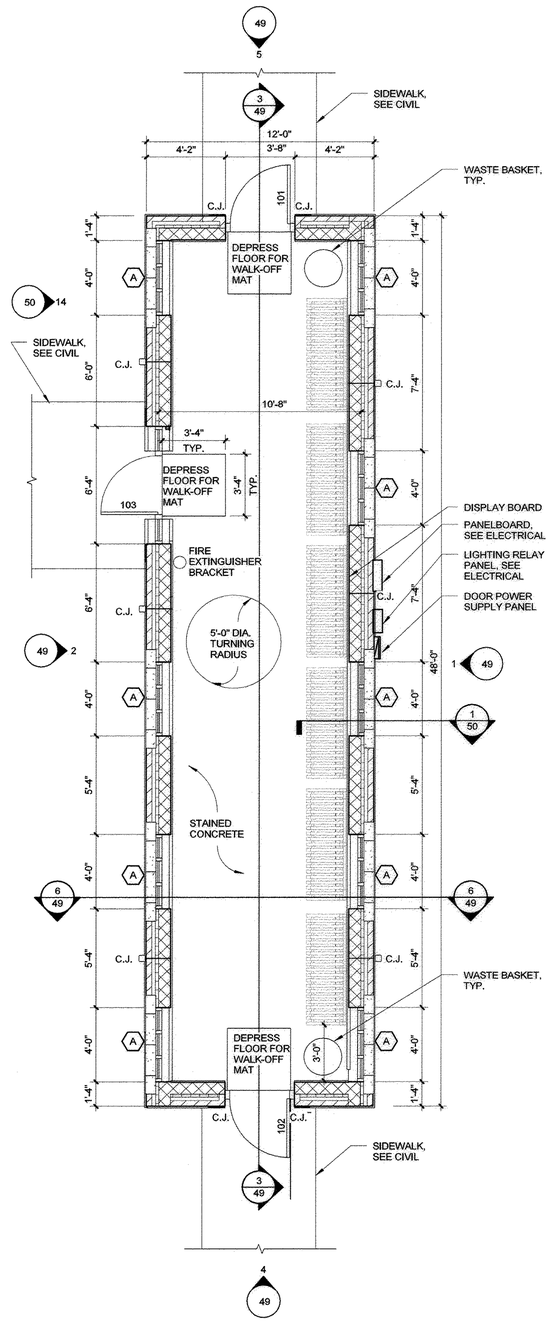
4 Peak Detail for T&G
Scale: 1/2" = 1'-0"



3 First Floor Reflected Ceiling Plan
Scale: 1/4" = 1'-0"



2 Roof Plan
Scale: 1/4" = 1'-0"



1 First Floor Plan
Scale: 1/4" = 1'-0"

Plan General Notes

A. ALL DIMENSIONS ARE TO FACE OF STUD, CMU AND/OR CONCRETE UNLESS NOTED OTHERWISE.

B. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.

C. SEE LIFE SAFETY PLANS FOR LOCATION OF RATED PARTITIONS AND SEPARATION INFORMATION

D. INSTALL ALL DOORS WITH MINIMUM 18 INCHES CLEAR FROM INSIDE FACE OF LATCH SIDE OF JAMB TO FINISH FACE OF WALL ON PULL SIDE OF DOOR, AND MINIMUM 12" ON OPPOSITE SIDE.

E. IT IS THE RESPONSIBILITY OF EACH CONTRACTOR TO PROVIDE COMPLETE WORKING SYSTEMS FOR ALL NEW ELEMENTS.

F. ALL CONTRACTORS SHALL PROVIDE NEW, UNDAMAGED MATERIALS UNLESS OTHERWISE SPECIFIED.

G. STORE MATERIALS IN SUCH A MANNER AS NOT TO OVERSTRESS, OVERLOAD, OR OTHERWISE PUT AN UNSAFE LOAD ON ANY STRUCTURE DURING CONSTRUCTION.

H. INSTALL ALL WORK IN ACCORDANCE WITH CURRENT APPLICABLE CODES, PUBLISHED STANDARDS, AND ACCEPTABLE CONSTRUCTION STANDARDS.

I. ALL NEW WORK SHALL BE PLUMB AND LEVEL UNLESS OTHERWISE NOTED.

J. ALL FIRE RESISTANT CONSTRUCTION SHALL EXTEND TO STRUCTURE ABOVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXTENDING PARTITIONS AROUND EQUIPMENT CABINETS AND OTHER ITEMS WHICH PENETRATE THESE PARTITIONS, AND SHALL BE RESPONSIBLE FOR FILLING ALL VOIDS IN PARTITIONS ABOVE CEILING, IN ORDER TO MAINTAIN DESIGNATED FIRE RESISTANCE.

K. DISSIMILAR FLOOR MATERIALS SHALL MEET UNDER CENTER OF DOOR LEAF

L. EACH CONTRACTOR SHALL COORDINATE THEIR WORK WITH ALL OTHER TRADES.

M. DO NOT SCALE DRAWINGS TO DETERMINE DIMENSIONS. IF A REQUIRED DIMENSION IS NOT INDICATED, CONTACT THE ARCHITECT FOR DETERMINATION.

N. DETAILS ARE GENERALLY TYPICAL AND ARE NOT TO BE CONSTRUED AS LIMITED TO THOSE AREAS SPECIFICALLY INDICATED. REVIEW ANY QUESTIONS OR CONFLICTING INFORMATION WITH THE ARCHITECT PRIOR TO INSTALLATION.

O. THE CONTRACTOR SHALL NOT CUT STRUCTURAL MEMBERS/ELEMENTS IN A MANNER RESULTING IN A REDUCTION OF LOAD CARRYING CAPACITY OR LOAD/DEFLECTION RATIO.

P. REFER TO STRUCTURAL DRAWINGS FOR FRAMING INFORMATION AND FRAMING DIMENSIONS.

Q. HINGE SIDE OF DOOR JAMBS TO BE LOCATED 4" FROM NEAREST WALL INTERSECTION UNLESS OTHERWISE NOTED.

R. PAINT ALL STEEL DOORS, DOOR FRAMES, INTERIOR BORROW LITE FRAMES, LINTELS AND OTHER EXPOSED METAL ITEMS UNLESS OTHERWISE NOTED OR SHOWN.

S. FURNITURE IS SHOWN FOR REFERENCE ONLY AND IS NOT IN CONTRACT.

S.I.	CODE NO.	PAY ITEM	UNIT	TOTAL QUAN
	XX007056	BUILDING	LSUM	1
X		LIGHTING SYSTEM COMPLETE, TRAIN STATION INTERIOR	LSUM	1
X		LIGHTING RELAY CONTROL PANEL COMPLETE	EACH	1
X		POWER SYSTEMS COMPLETE, TRAIN STATION INTERIOR	LSUM	1
X		FOOTINGS AND FOUNDATION WALLS	FOOT	120
X		EXTERIOR MASONRY WALLS, COMPLETE	FOOT	120
X		WOOD ROOF TRUSSES, COMPLETE	LSUM	1
X		SLAB ON GRADE, COMPLETE	SQ FT	424
X		GUTTERS AND DOWNSPOUTS COMPLETE	LSUM	1
X		RECESSED FLOOR MATS COMPLETE	LSUM	1
X		ALUMINUM DOORS COMPLETE	LSUM	1
X		ALUMINUM WINDOWS COMPLETE	LSUM	1
X		ROOFING COMPLETE	LSUM	1

FILE NAME =	USER NAME =	DESIGNED - BK/BW	REVISED -
		CHECKED - BW	REVISED -
	PLOT SCALE =	DRAWN - EA	REVISED -
	PLOT DATE = 10-07-2016	CHECKED - BW	REVISED -

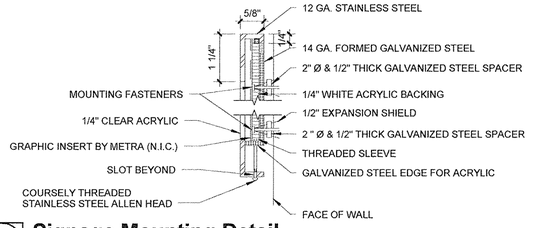
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROMEOVILLE METRA STATION
PLATFORM AREA
PLANS, CODE INFORMATION, AND GENERAL NOTES

SCALE: | SHEET NO. 48 OF 64 SHEETS | STA. | TO STA.

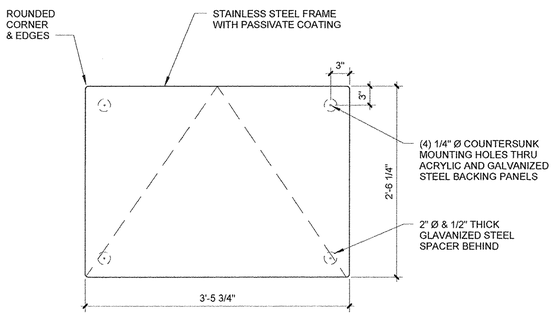
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	48
		CONTRACT NO.		61D08
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

SECTION 2, TOWNSHIP 36, RANGE 10



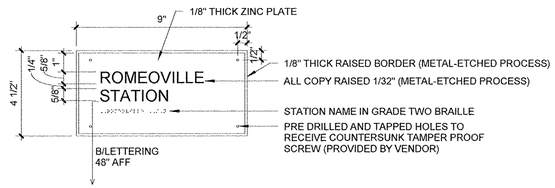
10 Signage Mounting Detail

Scale: 6" = 1'-0"



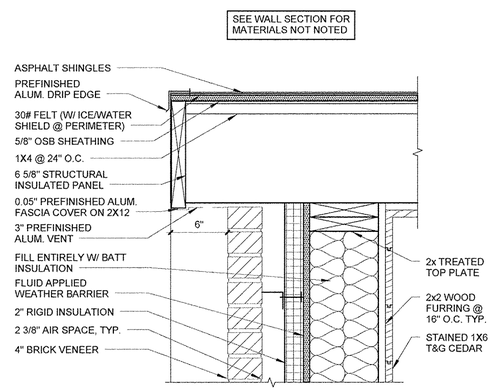
9 Display Board

Scale: 1" = 1'-0"



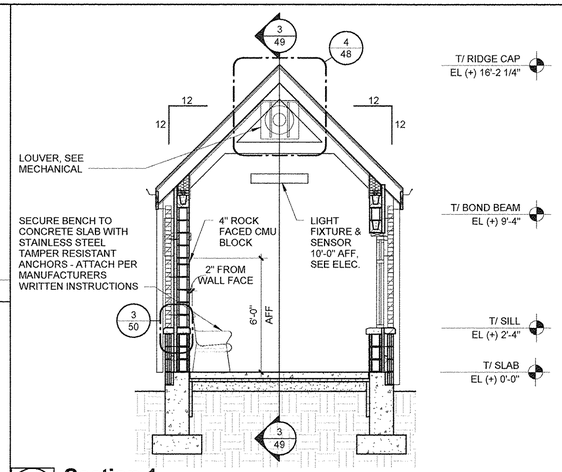
8 Signage

Scale: 3" = 1'-0"



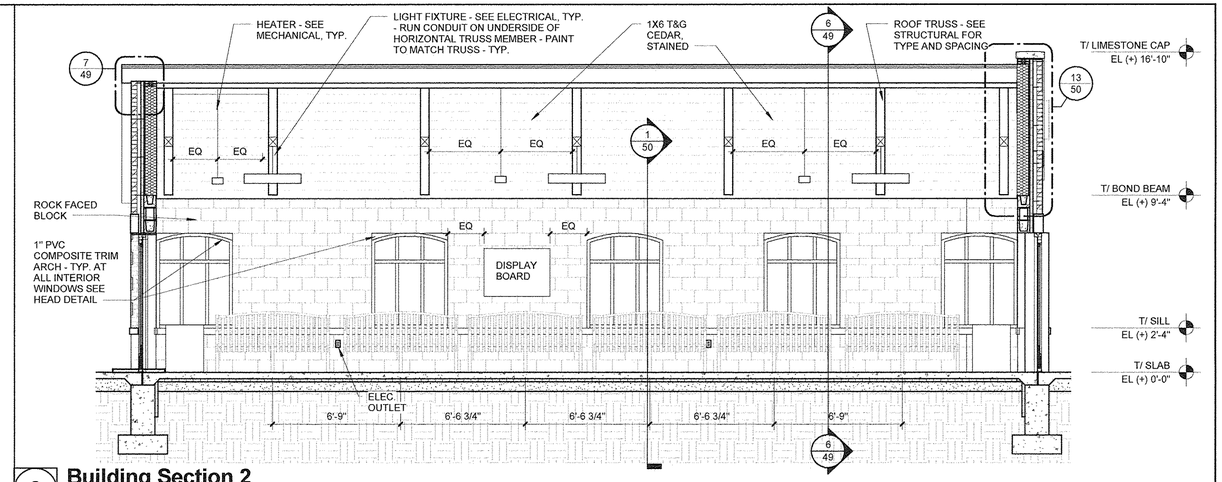
7 Roof Detail

Scale: 1 1/2" = 1'-0"



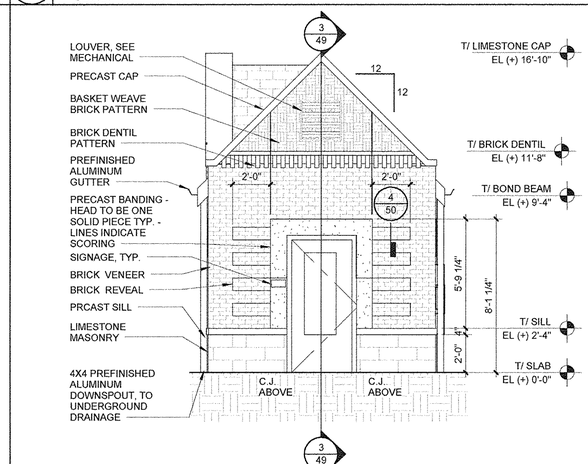
6 Section 1

Scale: 1/4" = 1'-0"



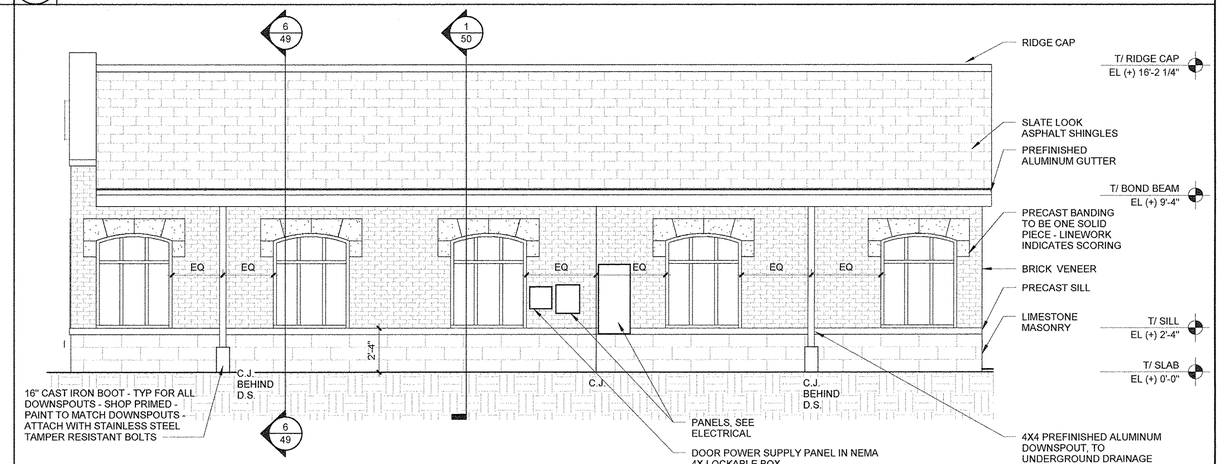
3 Building Section 2

Scale: 1/4" = 1'-0"



5 North Elevation

Scale: 1/4" = 1'-0"



2 West Elevation

Scale: 1/4" = 1'-0"

4 South Elevation

Scale: 1/4" = 1'-0"

1 East Elevation

Scale: 1/4" = 1'-0"

FILE NAME =	USER NAME =	DESIGNED - BK/BW	REVISED -
		CHECKED - BW	REVISED -
	PLOT SCALE =	DRAWN - EA	REVISED -
	PLOT DATE = 10-07-2016	CHECKED - BW	REVISED -

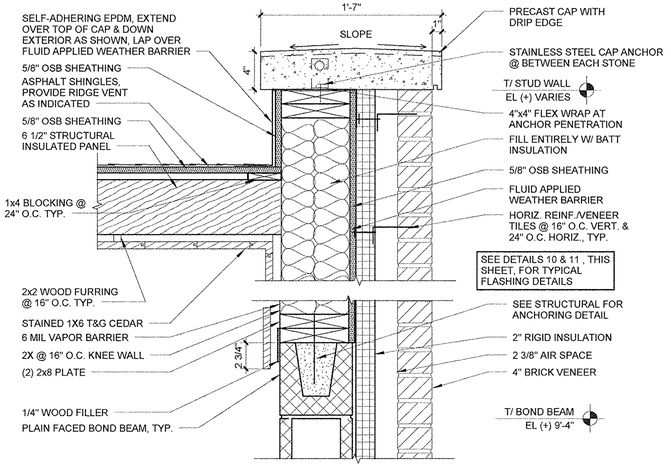
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROMEOVILLE METRA STATION
PLATFORM AREA
ELEVATIONS AND BUILDING SECTIONS

SCALE: | SHEET NO. 49 OF 64 SHEETS | STA. | TO STA.

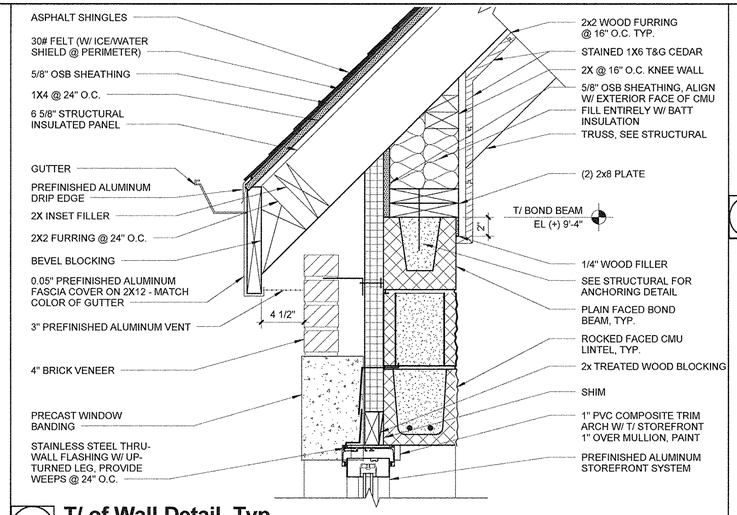
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	49
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

SECTION 2, TOWNSHIP 36, RANGE 10



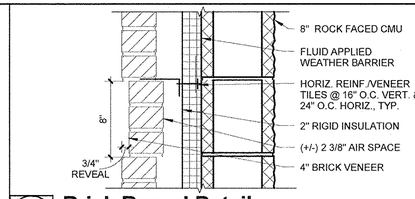
13 Precast Cap Detail

Scale: 1 1/2" = 1'-0"



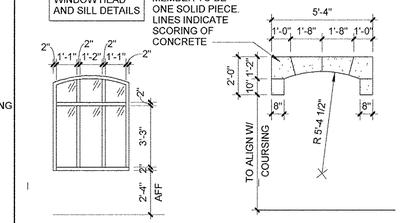
8 T/ of Wall Detail, Typ.

Scale: 1 1/2" = 1'-0"



4 Brick Reveal Detail

Scale: 1 1/2" = 1'-0"



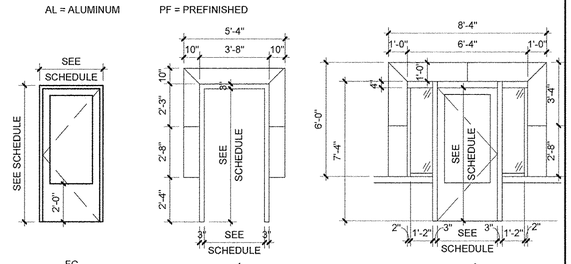
Window Elevation Precast Banding

Scale: 1/4" = 1'-0" Scale: 1/4" = 1'-0"

DOOR SCHEDULE

NO.	DOOR WIDTH	DOOR HEIGHT	DOOR THICK	DOOR MAT'L	DOOR FINISH	DOOR ELEV	DOOR FRAME MAT'L	DOOR FRAME FINISH	DOOR FRAME ELEV	HDWR SET	REMARKS
101	3'-2"	7'-0"	1 3/4"	AL	PF	FG	AL	PF	1	1	
102	3'-2"	7'-0"	1 3/4"	AL	PF	FG	AL	PF	1	1	
103	3'-2"	7'-0"	1 3/4"	AL	PF	FG	AL	PF	2	1	

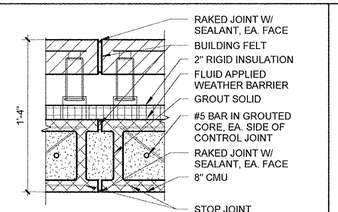
AL = ALUMINUM PF = PREFINISHED



NOTES:
1. ALL EXTERIOR GLASS SHALL BE 1" INSULATED GLASS
2. ALL GLASS MUST BE TEMPERED
3. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS
4. PROVIDE STAINLESS STEEL KICK PLATE ON PUSH SIDE OF ALL DOORS

Door Elevations Frame Elevations

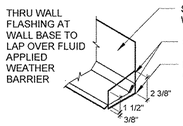
Scale: 1/4" = 1'-0" Scale: 1/4" = 1'-0"



PROVIDE CONTROL JOINT AT CMU WALL AS INDICATED ON FLOOR PLANS; CJ SHALL EXTEND FULL HEIGHT OF WALL.

12 Wall Control Joint, Typ.

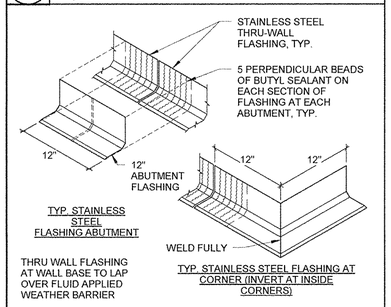
Scale: 1 1/2" = 1'-0"



NOTES:
1. PROVIDE END-DAMMING AT ALL THRU-WALL FLASHING LOCATIONS.
2. PROVIDE OPEN HEAD JOINT WEEPS IN BRICK @ 24" O.C., TYP.; FILL W/ MECHANICAL FABRIC.
3. PROVIDE 3/4" DOWN-LEG ONLY AT THOSE FLASHING LOCATIONS W/ STEEL ANGLE, TYP.

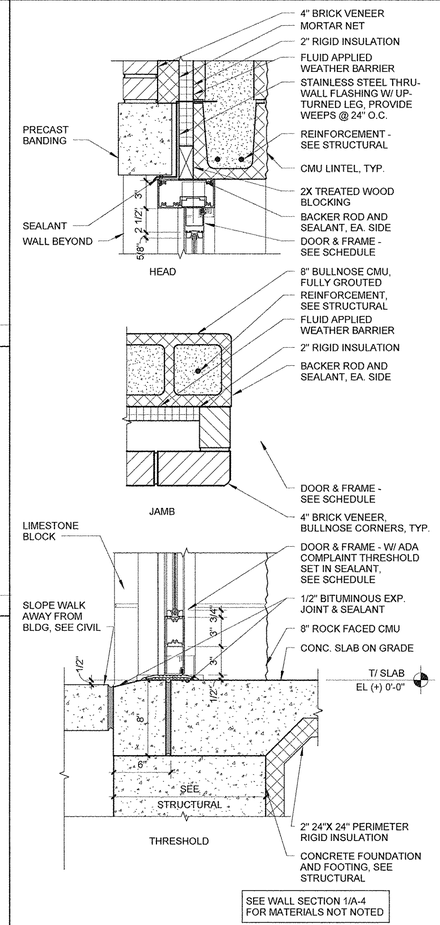
11 End Dam Flashing

Scale: 1 1/2" = 1'-0"



10 Standard Wall Flashing

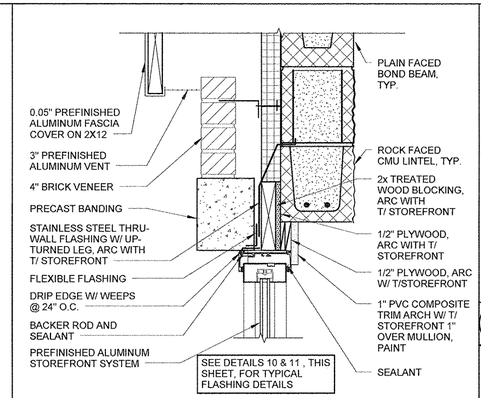
Scale: 1" = 1'-0"



SEE WALL SECTION 1/A-4 FOR MATERIALS NOT NOTED

9 Door Detail

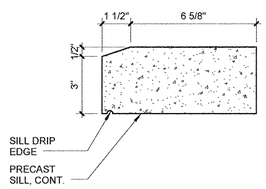
Scale: 1 1/2" = 1'-0"



SEE DETAILS 10 & 11 , THIS SHEET, FOR TYPICAL FLASHING DETAILS

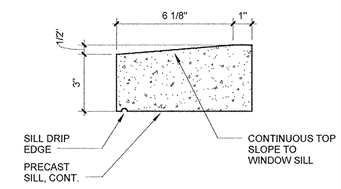
7 Window Detail @ Curve

Scale: 1 1/2" = 1'-0"



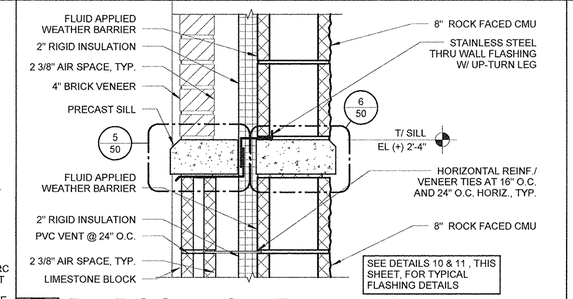
6 Int. Precast Sill

Scale: 3" = 1'-0"



5 Ext. Precast Sill, Typ.

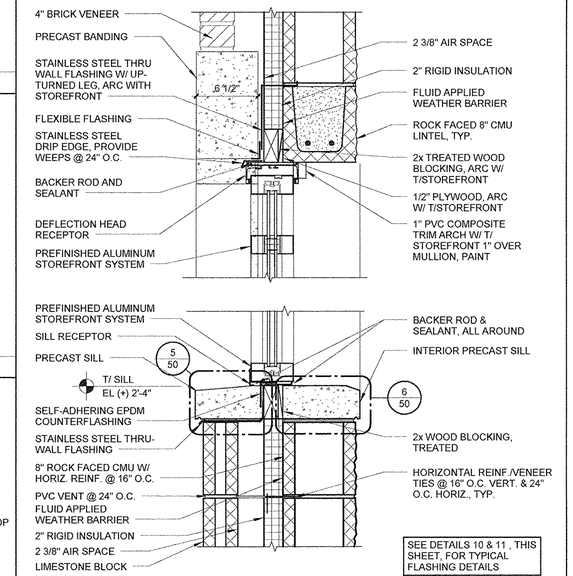
Scale: 3" = 1'-0"



SEE DETAILS 10 & 11 , THIS SHEET, FOR TYPICAL FLASHING DETAILS

3 Detail @ Stone Cap, Typ.

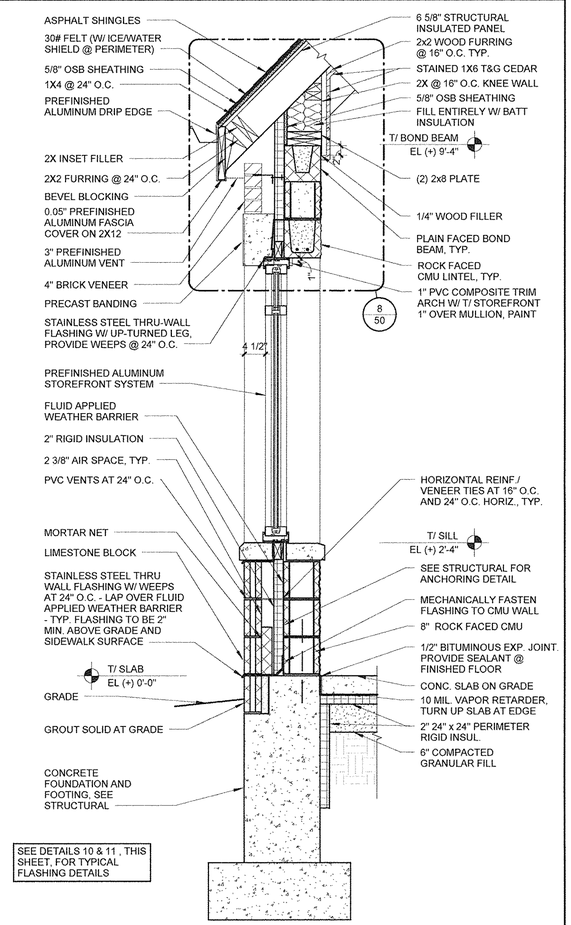
Scale: 1 1/2" = 1'-0"



SEE DETAILS 10 & 11 , THIS SHEET, FOR TYPICAL FLASHING DETAILS

2 Window Detail

Scale: 1 1/2" = 1'-0"



SEE DETAILS 10 & 11 , THIS SHEET, FOR TYPICAL FLASHING DETAILS

1 Wall Section

Scale: 3/4" = 1'-0"

FILE NAME =	USER NAME =	DESIGNED - BW	REVISED -	
		CHECKED - BW	REVISED -	
	PLOT SCALE =	DRAWN - EA	REVISED -	
	PLOT DATE = 10-07-2016	CHECKED - BW	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROMEOVILLE METRA STATION
PLATFORM AREA
ELEVATIONS, WALL SECTION, WINDOW AND DOOR SCHEDULE

SCALE: | SHEET NO. 50 OF 64 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	50
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		

SECTION 2, TOWNSHIP 36, RANGE 10

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	DRIVE	SERVICE	CFM	TSP (IN. W.C.)	FAN MOTOR BHP	SONES	DAMPER	WALL OPENING		ELECTRICAL DATA		PHYSICAL DATA				REMARKS
											L (IN.)	W (IN.)	HP	V/PH	L (IN.)	W (IN.)	H (IN.)	WT. (LBS.)	
EF-1	GREENHECK	SE1-18-429-A7	PROPELLER	DIRECT	VENTILATION	1,500	0.4	0.36	19.8	20x20	25.25	25.25	0.75	120/1	24	24	24	180	1,2,3

NOTES: 1. SOLID STATE SPEED CONTROLLER
2. DISCONNECT SWITCH
3. ALTERNATE MANUFACTURERS: LOREN COOK, TWIN CITY FANS

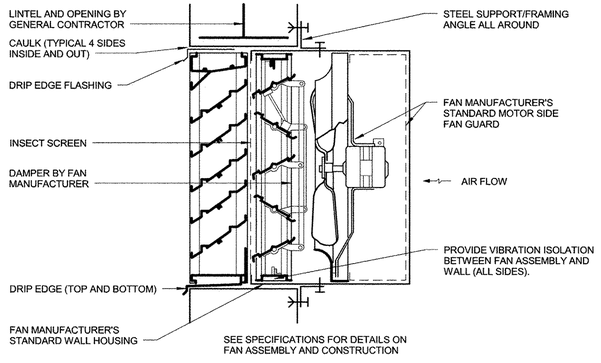
ELECTRIC HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	LOCATION	TOTAL CAP. (MBH)	ELECTRICAL DATA		PHYSICAL DATA			REMARKS
					V/PH	WATTS	L (IN.)	W (IN.)	D (IN.)	
EH-1	BROMIC HEATING	TUNGSTEN	WAITING	6,824	240/1	2,000	33	7	6	1,2,3
EH-2	BROMIC HEATING	TUNGSTEN	WAITING	6,824	240/1	2,000	33	7	6	1,2,3
EH-3	BROMIC HEATING	TUNGSTEN	WAITING	6,824	240/1	2,000	33	7	6	1,2,3

NOTES: 1. CEILING MOUNTING,
2. PROVIDE REMOVEABLE PROTECTIVE WIRE MESH SCREENING WITH TAMPER RESISTANT FASTENERS. PROTECTIVE MESH TO HAVE MAXIMUM 3/4" OPENING IN ANY DIRECTION AND SHALL BE ATTACHED NO CLOSER THAN 3" FROM HEATING ELEMENT.
3. ALTERNATE MANUFACTURERS: BERKO, QMARK

SCHEDULE OF MECHANICAL PAY ITEMS

Code	Items	Unit	Estimated Quantities	Estimated Unit Price
81400100	HEATING AND VENTILATION WORK	LSUM	1	$ 8,950.00



1 **Sidewall Propeller Exhaust Fan**
Scale: No Scale

Annotation Abbreviations

AC	ABOVE CEILING/AIR CONDITIONER
AF	AIR FILTER
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AMS	AIR MEASURING STATION
BAS	BUILDING AUTOMATION SYSTEM
BDD	BACKDRAFT DAMPER
BFC	BELOW FINISHED CEILING
BFP	BACKFLOW PREVENTION DEVICE
BJ	BETWEEN JOISTS
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTUH	BRITISH THERMAL UNITS PER HOUR
CF	CEILING / CIRCULATING FAN
CFM	CUBIC FEET PER MINUTE
DN	DOWN
EA	EXHAUST AIR
EBB	ELECTRIC BASEBOARD HEATER
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EG	EXHAUST GRILLE (LESS DAMPER)
EHC	ELECTRIC HEATING COIL
EL	ELEVATION
ER	EXHAUST REGISTER
ERP	ELECTRIC RADIANT PANEL
ESP	EXTERNAL STATIC PRESSURE
EUH	ELECTRIC UNIT HEATER
FA	FRESH AIR
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FDC	FLEXIBLE DUCT CONNECTION
GC	GENERAL CONTRACTOR
GIH	GRAVITY INTAKE HOOD
HC	HEATING COIL
ISP	INTERNAL STATIC PRESSURE
L	LOUVER
MA	MIXED AIR
MAU	MAKEUP AIR UNIT
MBH	THOUSANDS OF BTU PER HOUR
MD	MOTORIZED DAMPER
MS	MOTORIZED SHUTTER
NTS	NOT TO SCALE
OA	OUTDOOR AIR
OBD	OPPOSED BLADE DAMPER
P	PUMP
PC	PLUMBING CONTRACTOR
PBD	PARALLEL BLADE DAMPER
PSI	RETURN AIR
RA	POUNDS PER SQUARE INCH
RF	RETURN AIR FAN
RG	RETURN GRILLE (LESS DAMPER)
RH	ROOF HOOD
RHC	REHEAT COIL
RLFA	RELIEF AIR
RP	RADIANT PANEL
SA	SUPPLY AIR
SAS	SELF-ACTING SHUTTER
SD	SUPPLY DIFFUSER/SMOKE DAMPER
SF	SUPPLY FAN / SQUARE FOOT
SFD	SMOKE/FIRE DAMPER
SG	SUPPLY GRILLE
SR	SUPPLY REGISTER
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TOD	TOP OF DUCT
TOP	TOP OF PIPE
TSP	TOTAL STATIC PRESSURE
UH	UNIT HEATER
VD	VOLUME DAMPER
WAC	WINDOW / WALL AIR CONDITIONER

(NOT ALL SYMBOLS AND ABBREVIATIONS ARE USED ON THIS PROJECT)

Annotation Symbology

AHU-1 / 1	EQUIPMENT TYPE; MECHANICAL EQUIPMENT TAG; EQUIPMENT MARK
3 / M1.1	DETAIL MODULE NUMBER; DETAIL OR SECTION MARK; SHOWN ON DRAWING
S1 12x12 250	THROAT SIZE; AIR TERMINAL DESIGNATION; AIRFLOW IN CFM
3	KEYED NOTE
	POINT OF NEW CONNECTION
	CAP EXISTING PIPE OR DUCT
NEW	BOLD TEXT INDICATES PROPOSED ITEM
EXISTING	ITALIC TEXT INDICATES EXISTING ITEM

Ventilation Symbology

T AHU-1 GUARD	EQUIPMENT TO BE CONTROLLED; THERMOSTAT; LOCKABLE GUARD WHERE INDICATED
S GUARD TEMP HUMID CO	LOCKABLE GUARD WHERE INDICATED; SENSOR; ELEMENT TO BE MONITORED
H	HUMIDISTAT
CFM	AIR TRANSFER
	SUPPLY DIFFUSER/REGISTER
	RETURN REGISTER/GRILLE
	EXHAUST REGISTER/GRILLE
	DIFFUSER AIRFLOW PATTERN IF OTHER THAN 4-WAY BLOW
	FLEXIBLE BRANCH RUNOUT TO SUPPLY DIFFUSER, 36" MAX LENGTH
	CEILING RETURN REGISTER WITH LINED DUCT FOR SOUND ATTENUATION OPEN TO CEILING PLENUM
	FLEXIBLE DUCT CONNECTION TO EQUIPMENT OR BETWEEN DUCTS
	MANUAL VOLUME DAMPER
	MOTORIZED VOLUME DAMPER
	FIRE DAMPER
	SMOKE DAMPER
	SMOKE/FIRE DAMPER
	SUPPLY AIR DUCT TOWARDS
	SUPPLY AIR DUCT AWAY
	EXHAUST / RETURN AIR DUCT TOWARDS
	EXHAUST / RETURN AIR DUCT AWAY

General Heating, Ventilation, and Air-conditioning Notes

Common Requirements

THIS FACILITY HAS BEEN DESIGNATED A "SMOKE-FREE" ENVIRONMENT. NO MECHANICAL VENTILATION PROVISIONS HAVE BEEN MADE TO ACCOMMODATE TOBACCO USAGE BY THE BUILDING OCCUPANTS

ALL MECHANICAL SYSTEMS SHALL BE INSTALLED TO THE SATISFACTION OF THE LOCAL CODE AUTHORITIES HAVING JURISDICTION

Mechanical Equipment Installation

INSTALL EQUIPMENT TO ALLOW MAXIMUM POSSIBLE HEADROOM UNLESS SPECIFIC MOUNTING HEIGHTS ARE INDICATED

INSTALL EQUIPMENT LEVEL AND PLUMB, PARALLEL AND PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS IN EXPOSED INTERIOR SPACES, UNLESS OTHERWISE INDICATED

INSTALL HVAC EQUIPMENT TO FACILITATE SERVICE, MAINTENANCE, AND REPAIR OR REPLACEMENT OF COMPONENTS. CONNECT EQUIPMENT FOR EASE OF REMOVAL, WITH MINIMUM INTERFERENCE TO OTHER INSTALLATIONS

THE INSTALLING CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ALL MECHANICAL EQUIPMENT PUT INTO OPERATION PRIOR TO THE INSTALLATION OF A WORKING CONTROL SYSTEM, TESTING, AND BALANCING, AND SUBSTANTIAL COMPLETION. ALL RETURN AND EXHAUST DUCT OPENINGS SHALL BE COVERED WITH ROLL TYPE FILTER MEDIA DURING SUCH TEMPORARY OPERATION. OPERATION OF THE MECHANICAL EQUIPMENT PRIOR TO FINAL COMPLETION SHALL NOT IMPACT THE EQUIPMENT WARRANTY. MINIMUM 1-YEAR FROM SUBSTANTIAL COMPLETION UNLESS SPECIFIED OTHERWISE

PROVIDE FLEXIBLE DUCT CONNECTION BETWEEN MOTOR DRIVEN MECHANICAL UNITS AND SHEET METAL SUPPLY, OUTDOOR AIR, EXHAUST, AND/OR RETURN AIR DUCTWORK CONNECTIONS

BASIS OF DESIGN MECHANICAL EQUIPMENT IS AS SCHEDULED ON THE DRAWINGS. INSTALLING CONTRACTOR ASSUMES RESPONSIBILITY FOR COORDINATING PHYSICAL SPACE REQUIREMENTS OF EQUIVALENT CAPACITY MECHANICAL EQUIPMENT DEEMED ACCEPTABLE BY THE ENGINEER

MECHANICAL EQUIPMENT FACTORY FINISH DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION PRIOR TO FINAL ACCEPTANCE

Ductwork Requirements

DUCTWORK IS SHOWN IN SCHEMATIC FORM. ALL REQUIRED DUCT RISERS AND DROPS TO ALLOW GENERAL ROUTING DEPICTED MAY NOT BE SHOWN. PROVIDE OFFSETS AS REQUIRED TO MEET SPACE REQUIREMENTS AND TO AVOID INTERFERENCE WITH OTHER TRADES AND FIELD CONDITIONS. EXACT LOCATION OF THE DUCTWORK MAY VARY ACCORDING TO THE COORDINATED SPACE REQUIREMENTS. EACH TRADE SHALL BE TOTALLY RESPONSIBLE FOR COORDINATION WITH OTHER TRADES. NOTIFY ENGINEER OF CONDITIONS REPRESENTING SIGNIFICANT CHANGES TO THE DESIGNED ROUTING

COMPLY WITH NFPA 90A, "INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS," UNLESS OTHERWISE INDICATED

FABRICATE RECTANGULAR DUCTS, ELBOWS, TRANSITIONS, OFFSETS, BRANCH CONNECTIONS, AND OTHER CONSTRUCTION WITH GALVANIZED, SHEET STEEL, ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS--METAL AND FLEXIBLE." COMPLY WITH REQUIREMENTS FOR METAL THICKNESS, REINFORCING TYPES AND INTERVALS, TIE-ROD APPLICATIONS, AND JOINT TYPES AND INTERVALS

COORDINATE SIZE, QUANTITY, AND LOCATION OF ALL OPENINGS REQUIRED FOR DUCT AND PIPE PENETRATIONS THROUGH WALLS, FLOORS, AND ROOFS, WITH CONTRACTOR RESPONSIBLE FOR ROUGH FRAMING. COORDINATE LOCATION OF AIR INTAKES WITH EXHAUST AND PLUMBING VENTS SO THAT INTAKES ARE A MINIMUM OF 10 FEET FROM EXHAUST OPENINGS OR PLUMBING VENTS

INSTALL DUCTS IN LONGEST LENGTH POSSIBLE AND FEWEST POSSIBLE JOINTS. INSTALL FABRICATED FITTINGS FOR CHANGES IN DIRECTIONS, CHANGES IN SIZE AND SHAPE, AND CONNECTIONS

INSTALL DUCTS, UNLESS OTHERWISE INDICATED, VERTICALLY AND HORIZONTALLY, PARALLEL AND PERPENDICULAR TO BUILDING LINES; AVOID DIAGONAL RUNS UNLESS SPECIFICALLY INDICATED ON DRAWINGS

REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING MOUNTED DEVICES. COORDINATE MECHANICAL CEILING DEVICES SUCH AS DIFFUSERS AND REGISTERS WITH LIGHT FIXTURES, SPEAKERS, SPRINKLER HEADS, ETC.

BALANCE ENTIRE AIR DISTRIBUTION SYSTEM TO AIRFLOW QUANTITIES INDICATED ON MECHANICAL DRAWINGS

Design Conditions

HVAC DESIGN LOAD CALCULATIONS ARE BASED ON THE FOLLOWING CLIMATE DATA:

CITY AND STATE: ROMEOVILLE, IL

WINTER OUTDOOR AMBIENT DB/WB: -6.0/-7.2

SUMMER OUTDOOR AMBIENT DB/WB: 91.0/74.0

MECHANICAL SYSTEMS HAVE BEEN DESIGNED BASED UPON THE 2012 INTERNATIONAL MECHANICAL CODE, 2015 INTERNATIONAL ENERGY CONSERVATION CODE, NATIONAL FIRE PROTECTION (NFPA) STANDARDS, AND ACCEPTED AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS (ASHRAE) ACCEPTED STANDARDS AND PRACTICES

LICENSED PROFESSIONAL ENGINEER — DUSTIN R RHOADES 062066257 — STATE OF ILLINOIS

THE PORTION OF THIS TECHNICAL SUBMISSION DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION. I AM A DULY LICENSED MECHANICAL ENGINEER UNDER THE LAWS OF THE STATE OF ILLINOIS.

SIGNATURE: Dustin R. Rhoades
NAME: Dustin Rhoades
DATE: 10-10-17
LICENSE RENEWAL DATE: 11-30-2017
PAGES OR DIVISIONS COVERED: 51-52

FILE NAME =	USER NAME =	DESIGNED - DRR	REVISED -
		CHECKED - DEL	REVISED -
	PLOT SCALE =	DRAWN - DRR	REVISED -
	PLOT DATE = 10-10-2016	CHECKED - DEL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

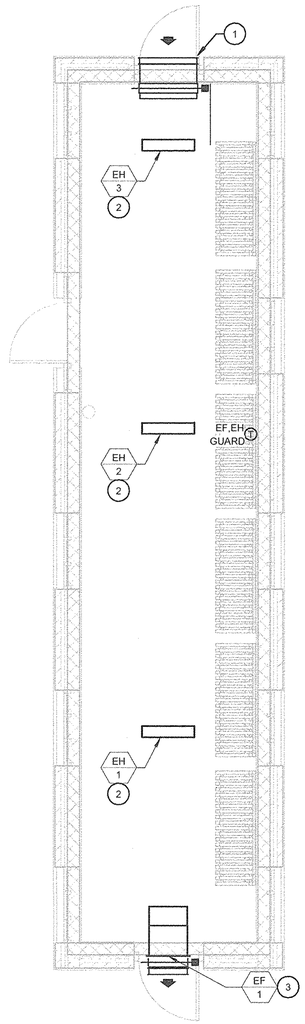
ROMEOVILLE METRA STATION
PLATFORM AREA
MECHANICAL GENERAL INFORMATION

SCALE: | SHEET NO. 51 OF 64 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	51
		CONTRACT NO.		-

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT CMM-9003(500)

SECTION 2, TOWNSHIP 36, RANGE 10



KEYED NOTES (#)

1. 36x24 INTAKE LOUVER WITH MOTORIZED DAMPER AND INSECT SCREEN. INSECT SCREEN SHALL BE 3/4x0.050 FLAT EXPANDED ALUMINUM.
2. HEATER SHALL BE HUNG FROM STRUCTURE ABOVE WITH CEILING BRACKETS AND GALVANIZED AIRCRAFT CABLE (MIN. 1/16" DIAMETER) . BOTTOM OF HEATERS SHALL BE 10'-0" ABOVE FINISHED FLOOR. COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECTURAL BUILDING SECTION.
3. EXHAUST FAN LOUVER SHALL HAVE A 3/4x0.050 FLAT EXPANDED ALUMINUM INSECT SCREEN.

1 MECHANICAL PLAN

Scale: 1/4" = 1'-0"

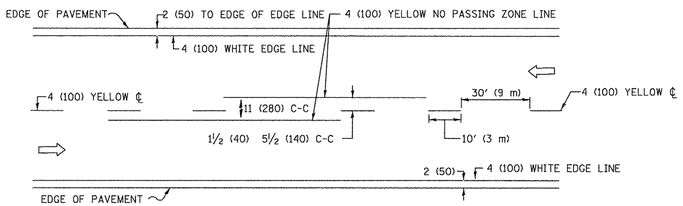
FILE NAME =	USER NAME =	DESIGNED - DRR	REVISED -
		CHECKED - DEL	REVISED -
	PLOT SCALE =	DRAWN - DRR	REVISED -
	PLOT DATE = 10-10-2016	CHECKED - DEL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

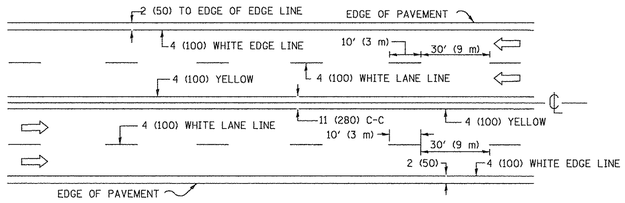
ROMEOVILLE METRA STATION
PLATFORM AREA
MECHANICAL PLAN

SCALE: | SHEET NO. 52 OF 64 SHEETS | STA. | TO STA.

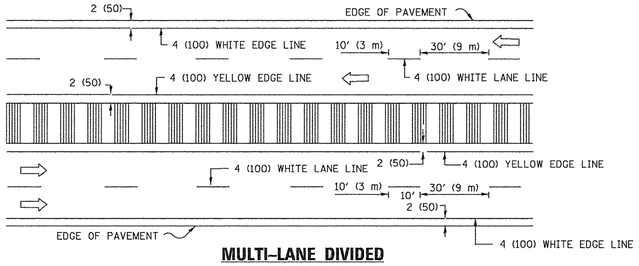
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	52
		CONTRACT NO.		-
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		



2–LANE ROADWAY

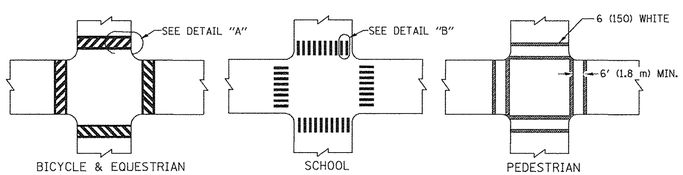


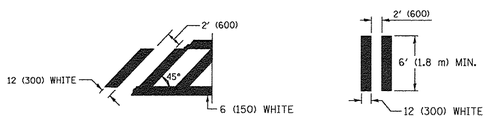
MULTI–LANE UNDIVIDED



MULTI–LANE DIVIDED
WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

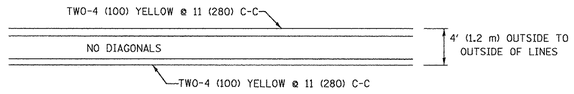




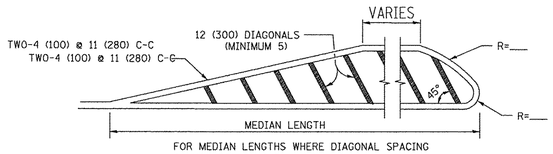
DETAIL "A" **DETAIL "B"**

TYPICAL CROSSWALK MARKING

✳ MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



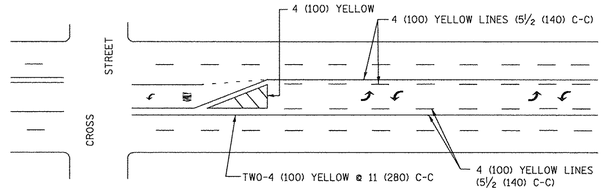
4' (1.2 m) WIDE MEDIANS ONLY



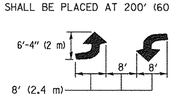
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

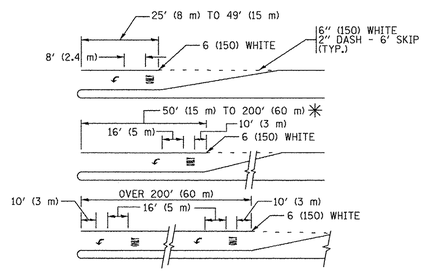


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

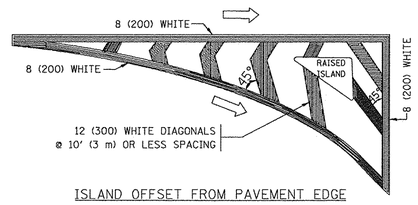


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m^2) **ONLY** AREA = 20.8 SQ. FT. (1.9 m^2)

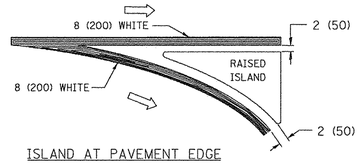
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

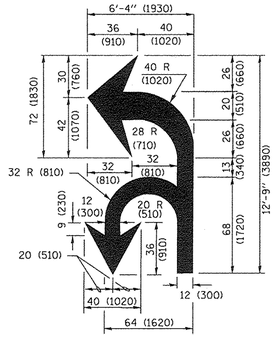


ISLAND OFFSET FROM PAVEMENT EDGE

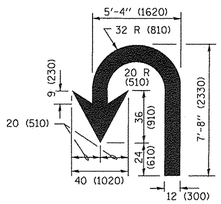


ISLAND AT PAVEMENT EDGE

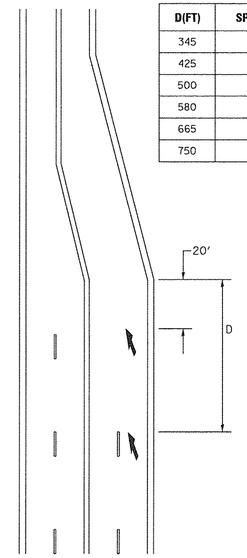
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U–TURN



U–TURN



D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

LANE REDUCTION TRANSITION

✳ LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 ⌀ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 ⌀ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 ⌀ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 ⌀ 6 (150) 12 (300) ⌀ 45° 12 (300) ⌀ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 ⌀ 4 (100) WITH 12 (300) DIAGONALS ⌀ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS ⌀ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m^2) EACH "X"=54.0 SQ. FT. (5.0 m^2)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) ⌀ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

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PLOT DATE = 4/13/2016

DESIGNED — EVERS
CHECKED —
DRAWN —
CHECKED — 03-19-90

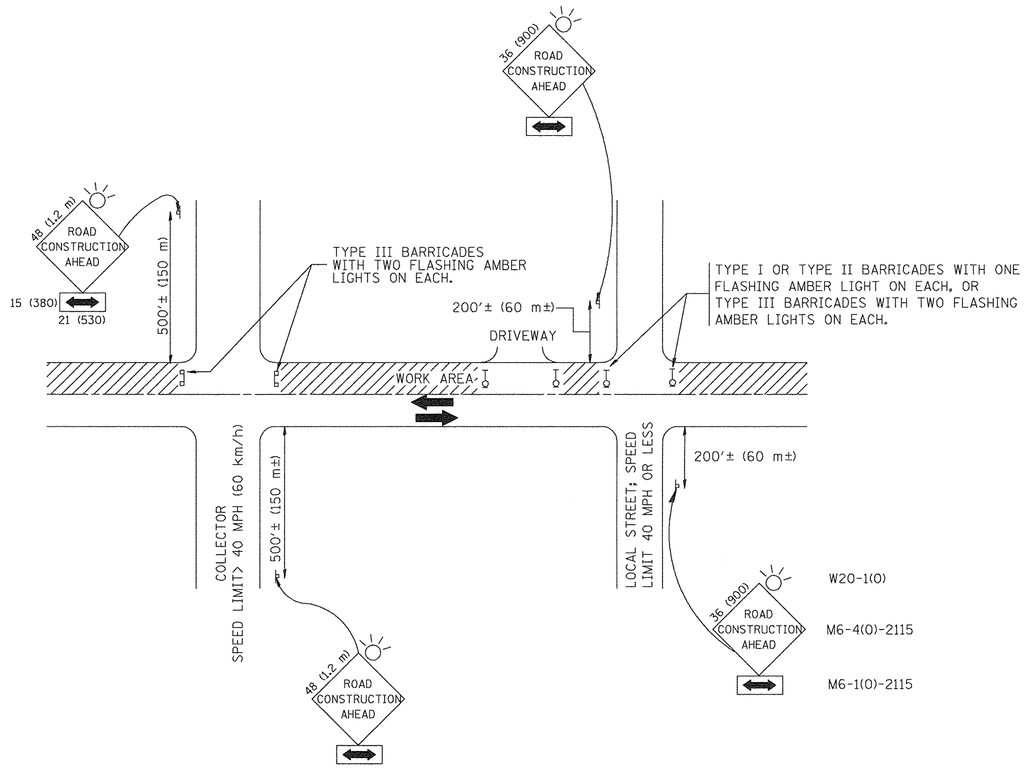
REVISED — C. JUCIUS 09-09-09
REVISED — C. JUCIUS 07-01-13
REVISED — C. JUCIUS 12-21-15
REVISED — C. JUCIUS 04-12-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE | SHEET NO. 53 OF 64 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	53
	TC-13	CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		



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

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown.

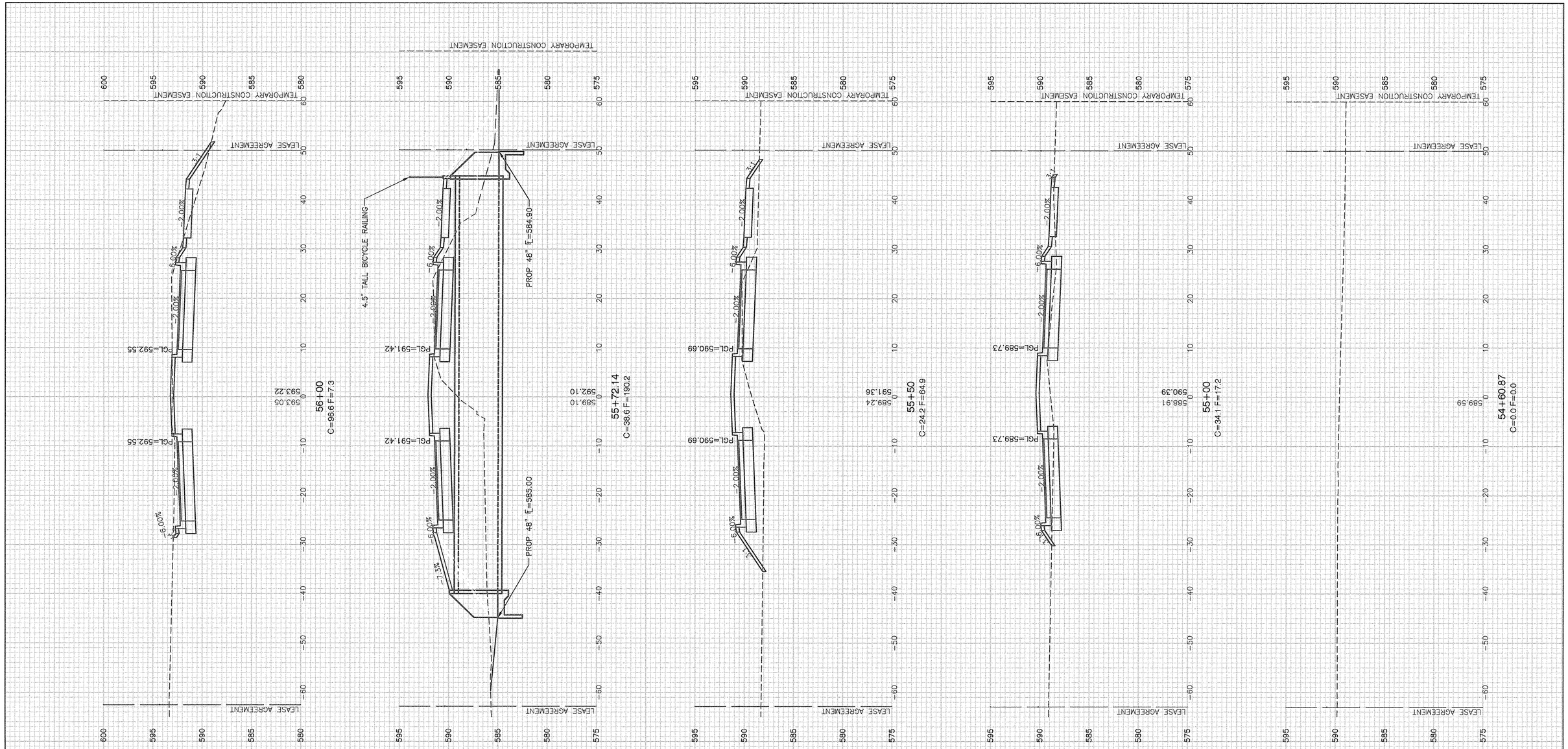
FILE NAME = 07552_02-DTLS-01 - TC10	USER NAME = gaglianobt	DESIGNED — LHA	REVISED — J. OBERLE 10-18-95
		CHECKED —	REVISED — A. HOUSEH 03-06-96
	PLOT SCALE = 50.000 ' / IN.	DRAWN —	REVISED — A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	CHECKED — 06-89	REVISED — RAMMACHER 01-06-0

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SCALE: NONE | SHEET NO. 54 OF 64 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	54
	TC-10	CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		



FILE NAME = 07552_02-XSEC-01 - IDOT_X1

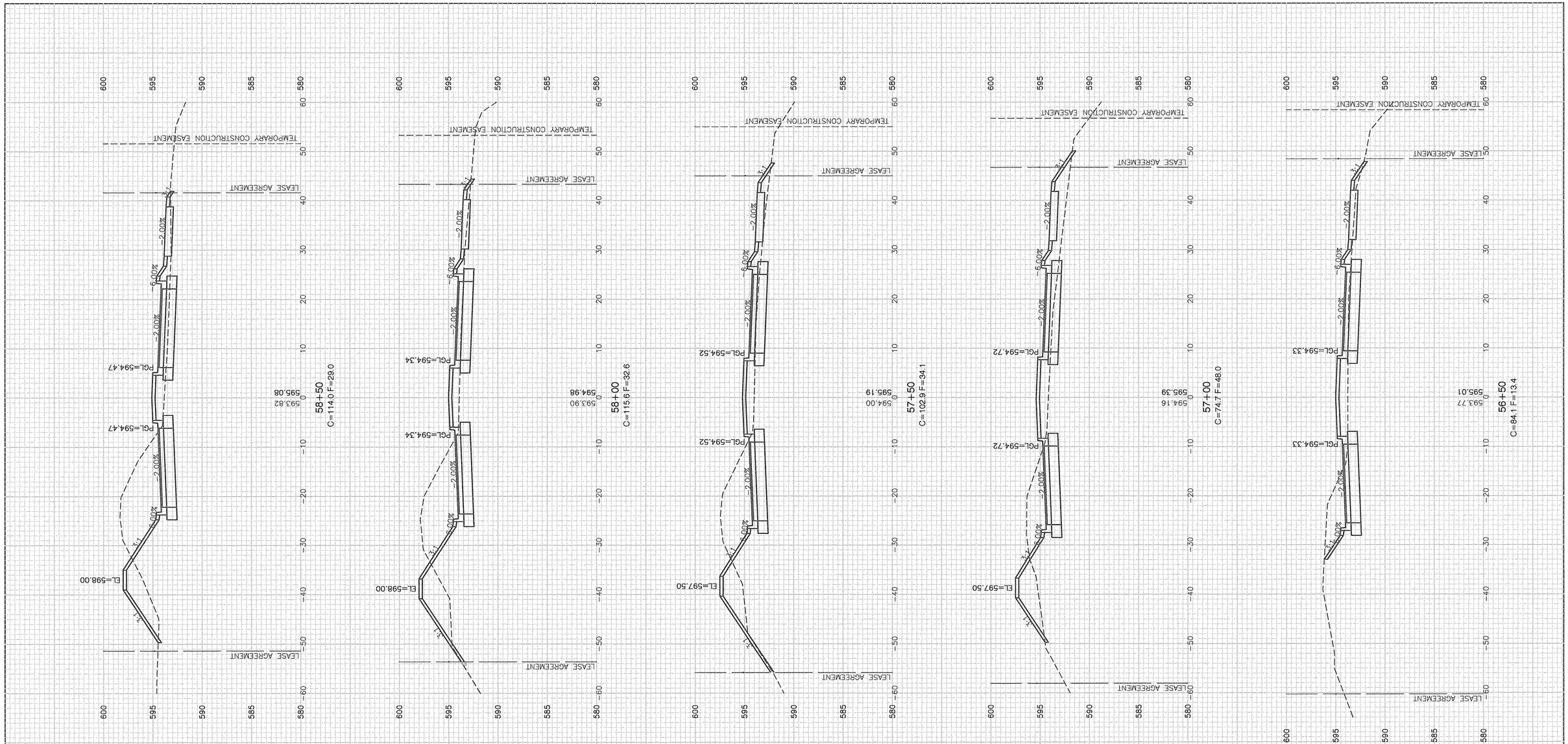
USER NAME =	DESIGNED — TAG	REVISED —	
	CHECKED — PKB	REVISED —	
PLOT SCALE =	DRAWN — ACAD	REVISED —	
PLOT DATE = 10-10-16	CHECKED — ACAD	REVISED —	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROMEOVILLE METRA LOT
PROPOSED ACCESS ROAD
CROSS SECTIONS

SCALE: H: 1"=10' V: 1"=5' | SHEET NO. 55 OF 64 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	55
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		



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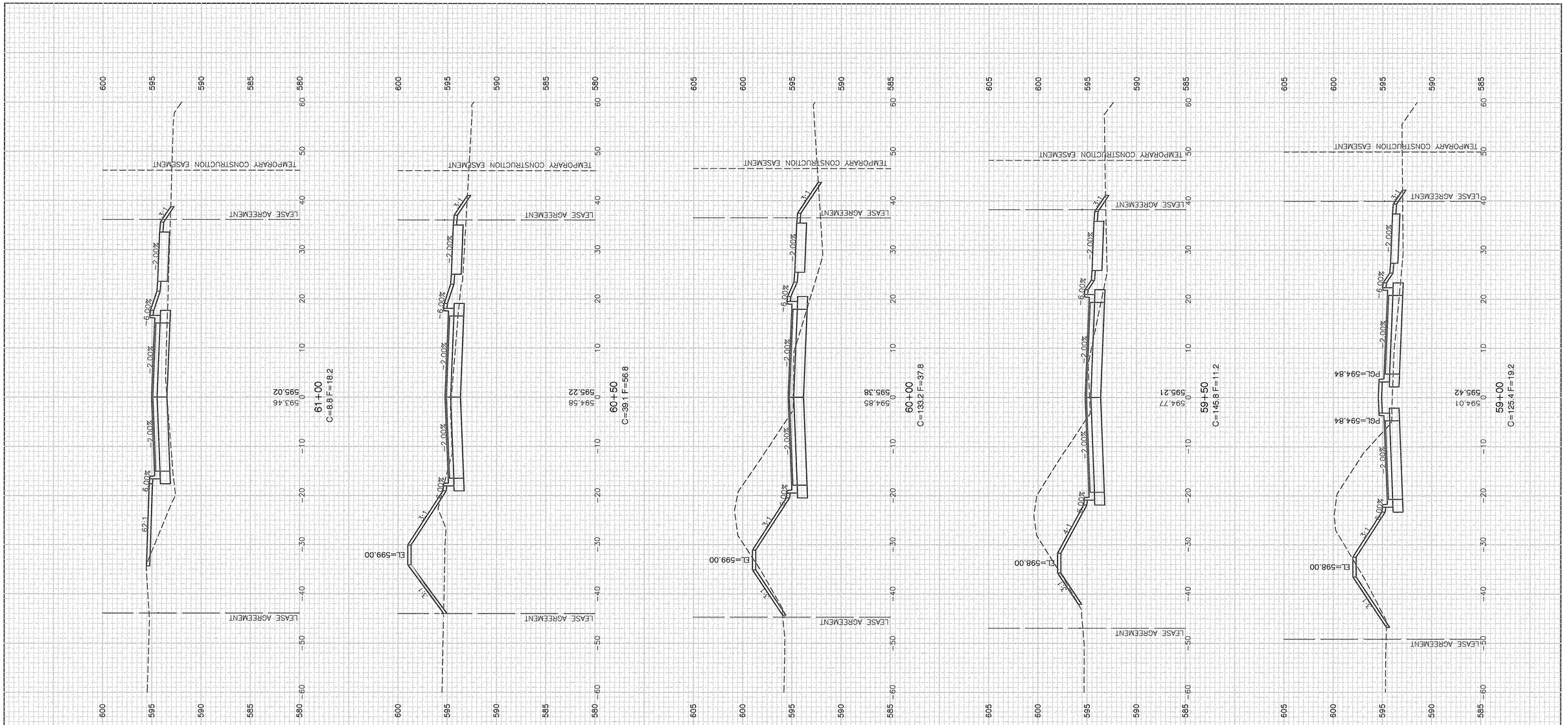
		CHECKED — PKB	REVISED —	
	PLOT SCALE =	DRAWN — ACAD	REVISED —	
	PLOT DATE = 10-10-16	CHECKED — ACAD	REVISED —	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROMEOVILLE METRA LOT
PROPOSED ACCESS ROAD
CROSS SECTIONS

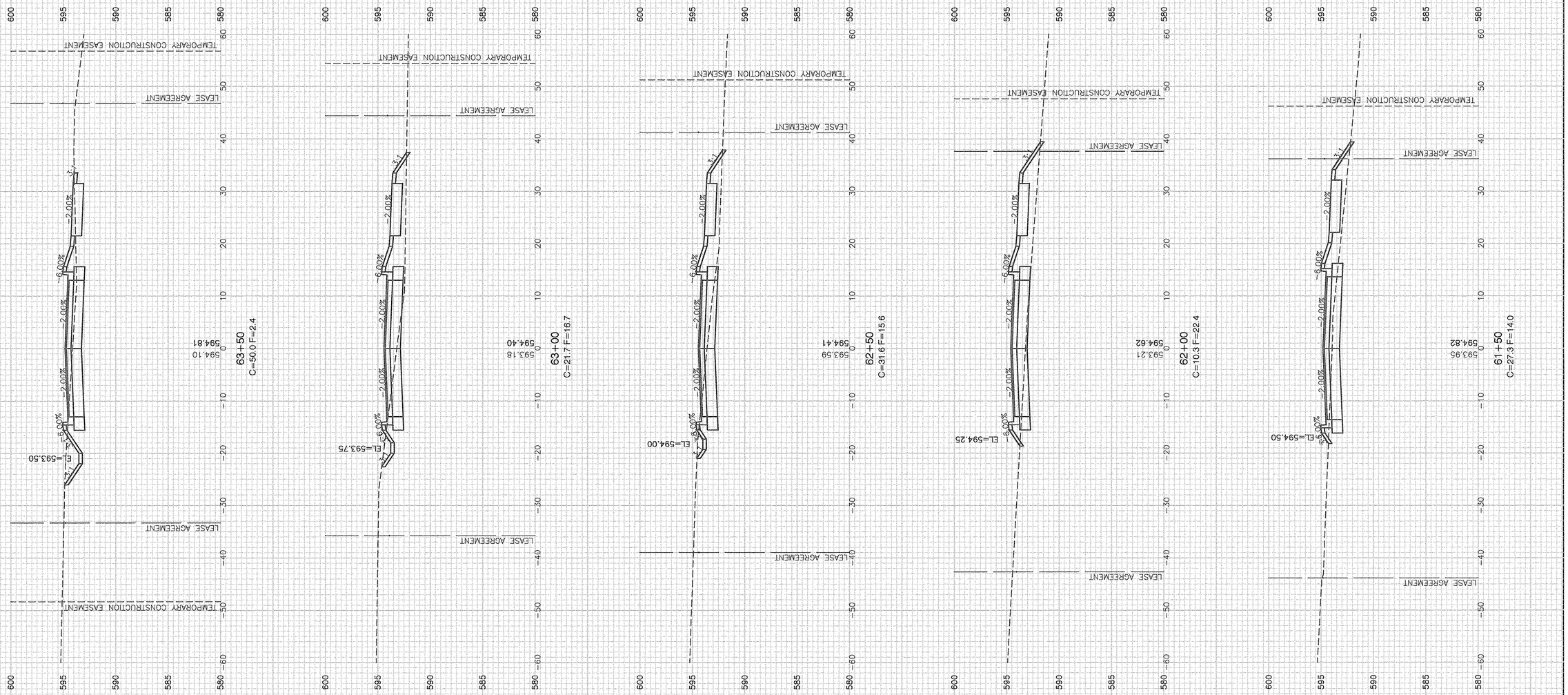
SCALE: H: 1"=10' V: 1"=5' | SHEET NO. 56 OF 64 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	56
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		



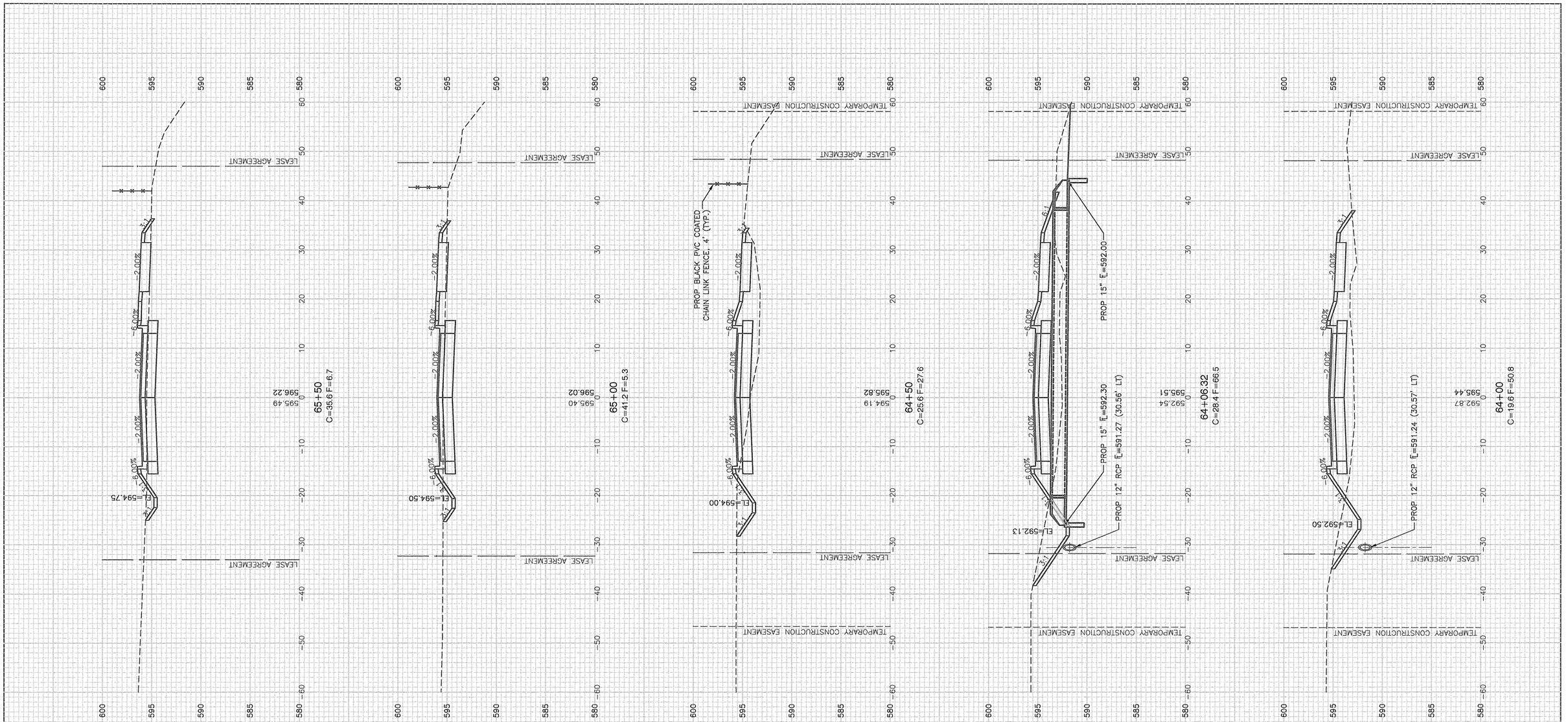
FILE NAME = 07552_02-XSEC-01 - IDOT_X3	USER NAME =	DESIGNED — TAG	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROMEOVILLE METRA LOT PROPOSED ACCESS ROAD CROSS SECTIONS
		CHECKED — PKB	REVISED —		
	PLOT SCALE =	DRAWN — ACAD	REVISED —		SCALE: H: 1"=10' V: 1"=5' | SHEET NO. 57 OF 64 SHEETS | STA. | TO STA.
	PLOT DATE = 10-10-16	CHECKED — ACAD	REVISED —		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	57
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		



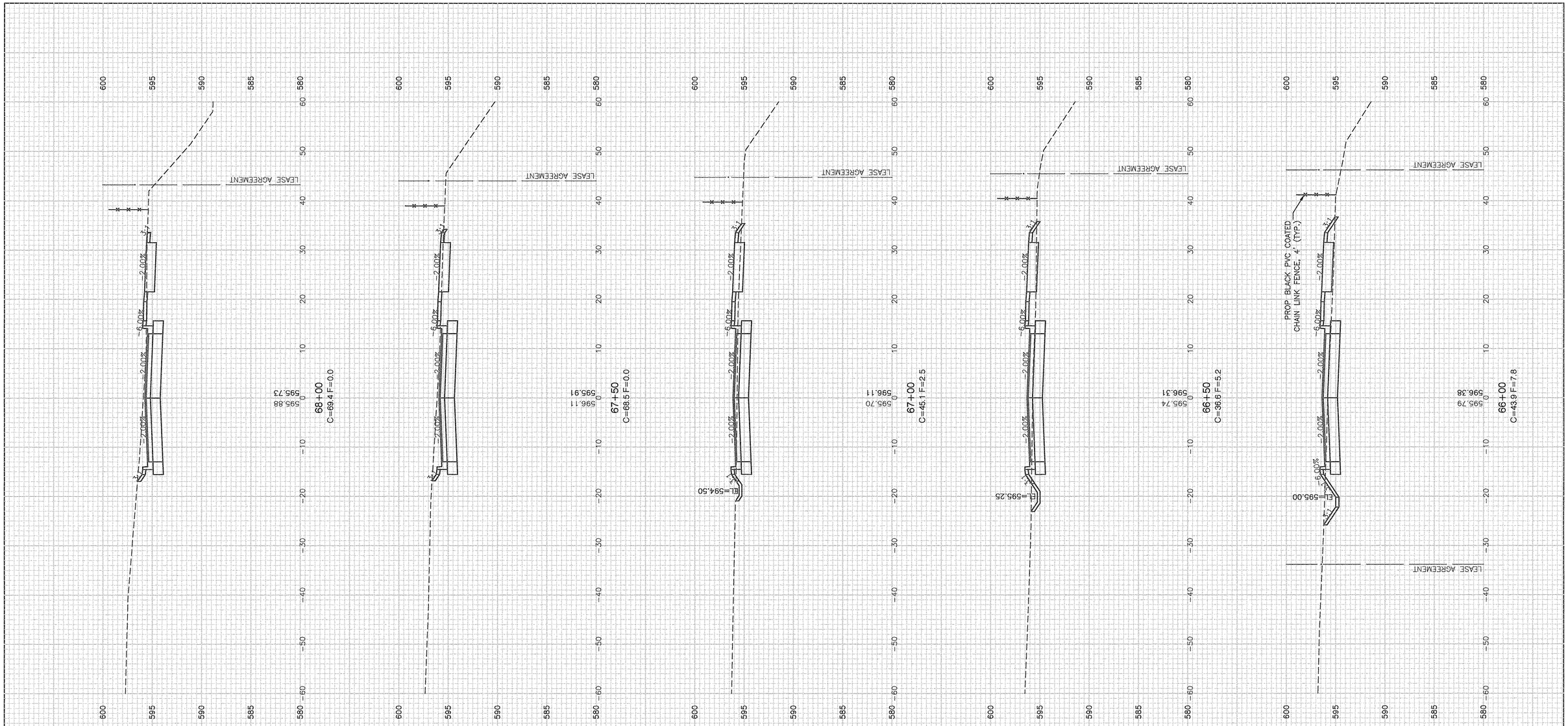
FILE NAME = 07552_02-XSEC-01 - IDOT_X4	USER NAME =	DESIGNED — TAG	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROMEOVILLE METRA LOT PROPOSED ACCESS ROAD CROSS SECTIONS
		CHECKED — PKB	REVISED —		
	PLOT SCALE =	DRAWN — ACAD	REVISED —		SCALE: H: 1"=10' V: 1"=5' SHEET NO. 58 OF 64 SHEETS STA. TO STA.
	PLOT DATE = 10-10-16	CHECKED — ACAD	REVISED —		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	58
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		



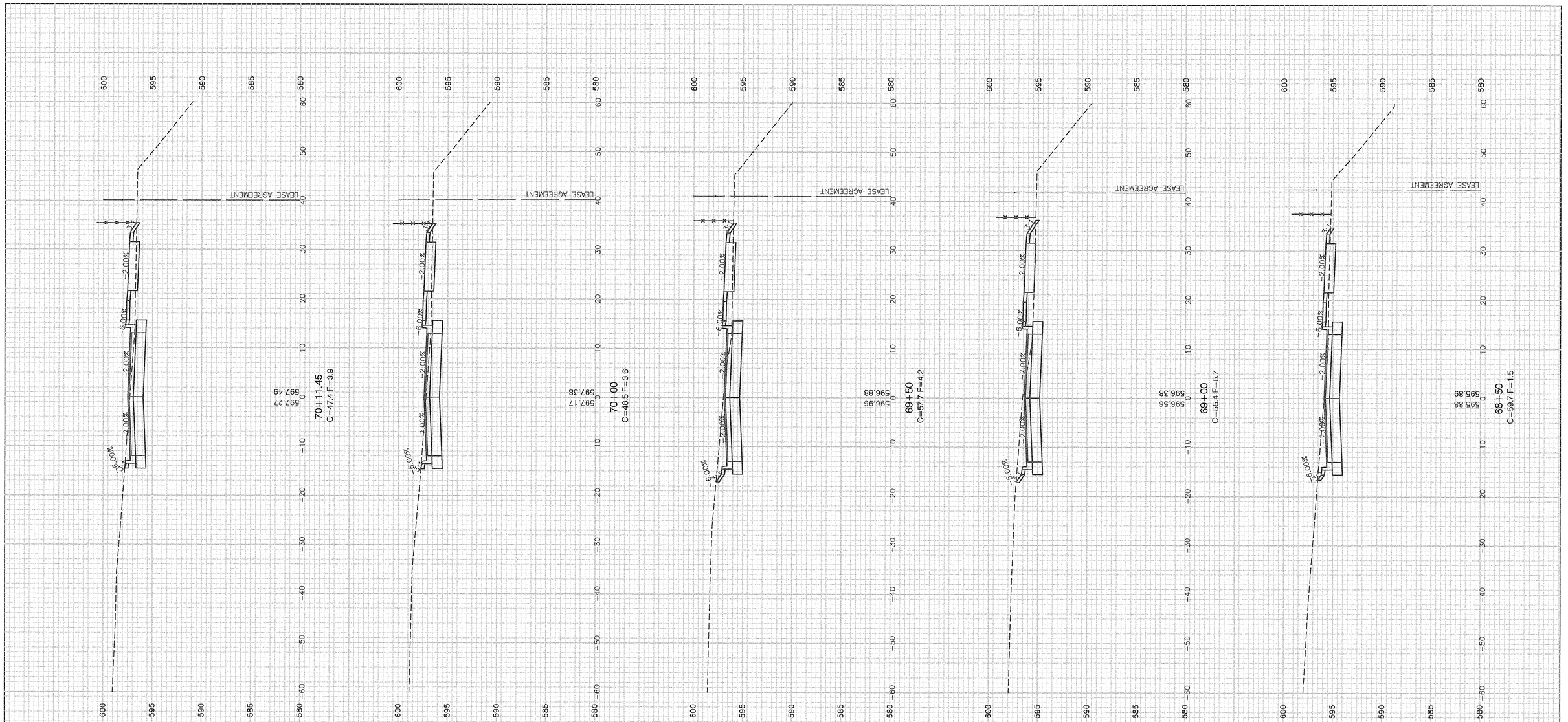
FILE NAME = 07552_02-XSEC-01 - IDOT_XS	USER NAME =	DESIGNED — TAG	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROMEOVILLE METRA LOT PROPOSED ACCESS ROAD CROSS SECTIONS
		CHECKED — PKB	REVISED —		
	PLOT SCALE =	DRAWN — ACAD	REVISED —		SCALE: H: 1"=10' V: 1"=5' | SHEET NO. 59 OF 64 SHEETS | STA. TO STA.
	PLOT DATE = 10-10-16	CHECKED — ACAD	REVISED —		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	59
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		



FILE NAME = 07552_02-XSEC-01 - IDOT_X6	USER NAME =	DESIGNED — TAG	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROMEOVILLE METRA LOT PROPOSED ACCESS ROAD CROSS SECTIONS
		CHECKED — PKB	REVISED —		
	PLOT SCALE =	DRAWN — ACAD	REVISED —		SCALE: H: 1"=10' V: 1"=5' | SHEET NO. 60 OF 64 SHEETS | STA. TO STA.
	PLOT DATE = 10-10-16	CHECKED — ACAD	REVISED —		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	60
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		



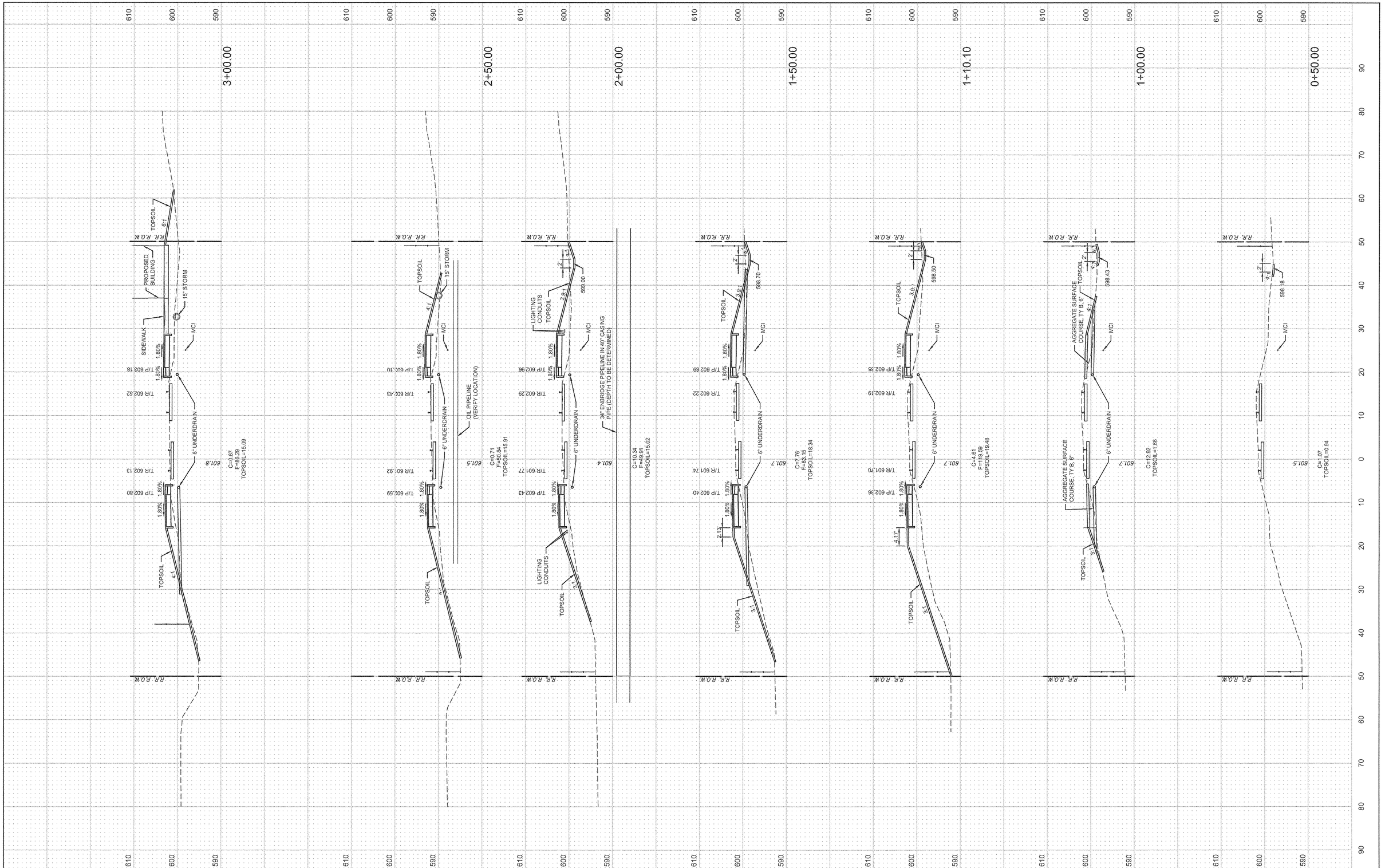
FILE NAME = 07552_02-XSEC-01 - IDOT_X7	USER NAME =	DESIGNED — TAG	REVISED —
		CHECKED — PKB	REVISED —
	PLOT SCALE =	DRAWN — ACAD	REVISED —
	PLOT DATE = 10-10-16	CHECKED — ACAD	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROMEOVILLE METRA LOT
PROPOSED ACCESS ROAD
CROSS SECTIONS

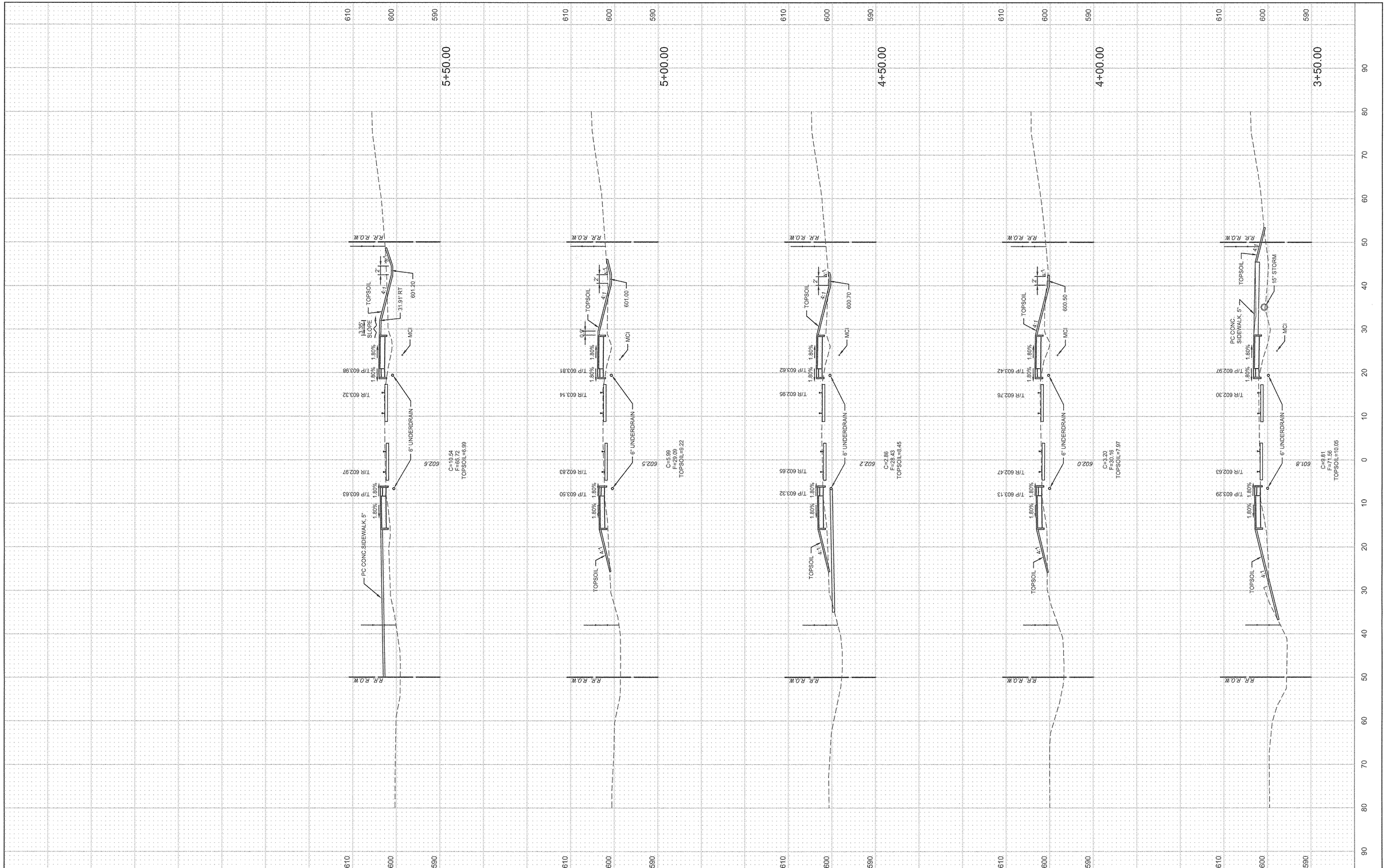
SCALE: H: 1"=10' V: 1"=5' | SHEET NO. 61 OF 64 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-00056-00-PK	WILL	64	61
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		



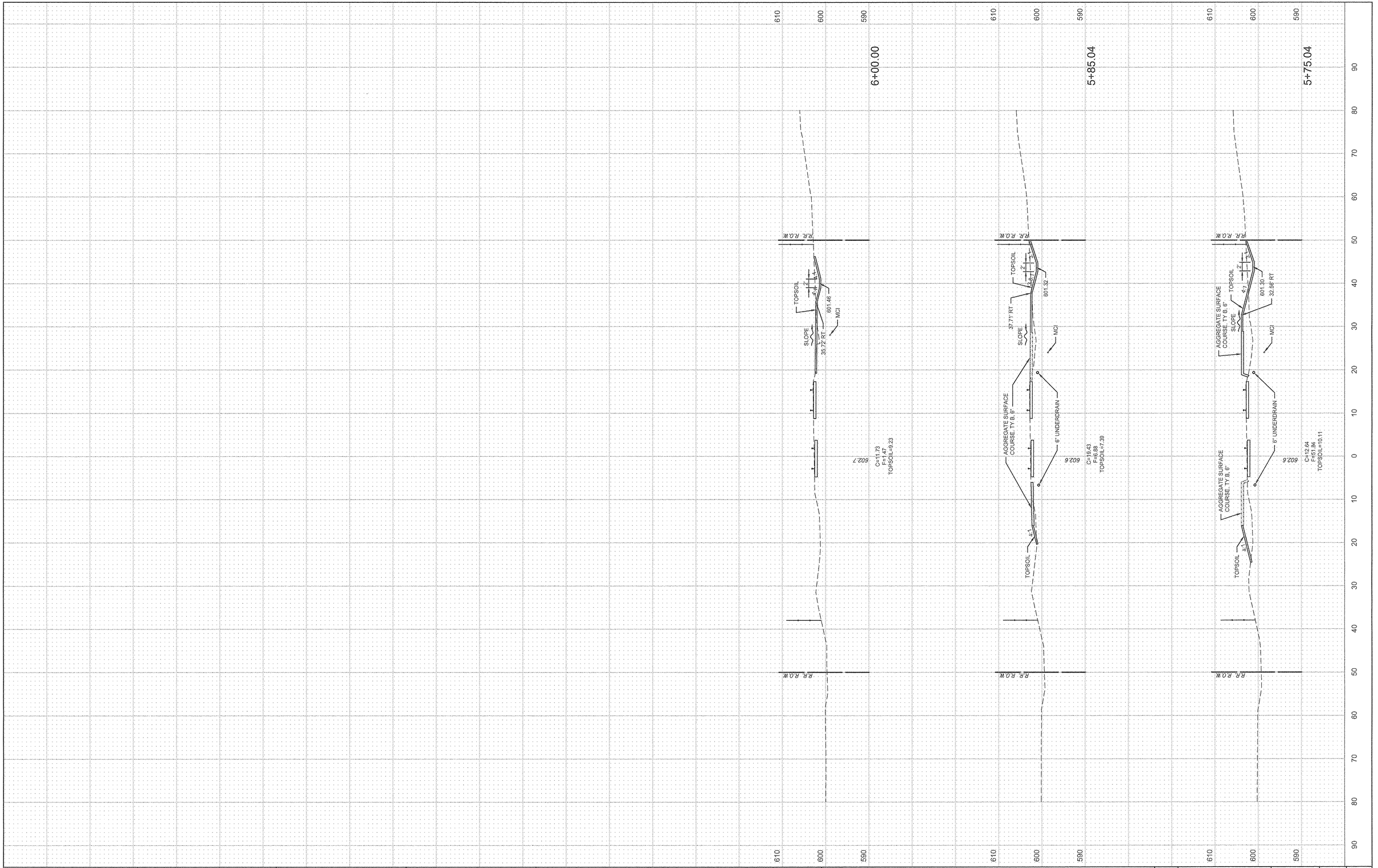
FILE NAME = 07552_02-XSEC-62-64 FARNSWORTH	USER NAME =	DESIGNED — JLF	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROMEOVILLE METRA STATION PLATFORM AREA RAILROAD CROSS SECTIONS
		CHECKED — KRS	REVISED —		
	PLOT SCALE =	DRAWN — GLS|NDH	REVISED —		SCALE: H1"=10|V1"=5| SHEET NO. 62 OF 64 SHEETS STA. TO STA.
	PLOT DATE = 10-10-2016	CHECKED — BMK	REVISED —		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-0056-00-PK	WILL	64	62
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		



FILE NAME = 07552_02-XSEC-62-64 FARNSWORTH	USER NAME =	DESIGNED — JLF	REVISED —	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROMEOVILLE METRA STATION PLATFORM AREA RAILROAD CROSS SECTIONS
		CHECKED — KRS	REVISED —		
	PLOT SCALE =	DRAWN — GLS[NDH	REVISED —		SCALE: H1"=10[]V1"=5[] SHEET NO. 63 OF 64 SHEETS STA. TO STA.
	PLOT DATE = 10-10-2016	CHECKED — BMK	REVISED —		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-0056-00-PK	WILL	64	63
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		



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		CHECKED — KRS	REVISED —		
	PLOT SCALE =	DRAWN — GLS[NDH	REVISED —		SCALE: H1"=10[]V1"=5[] SHEET NO. 64 OF 64 SHEETS STA. TO STA.
	PLOT DATE = 10-10-2016	CHECKED — BMK	REVISED —		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
282	10-0056-00-PK	WILL	64	64
		CONTRACT NO. 61D08		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT CMM-9003(600)		