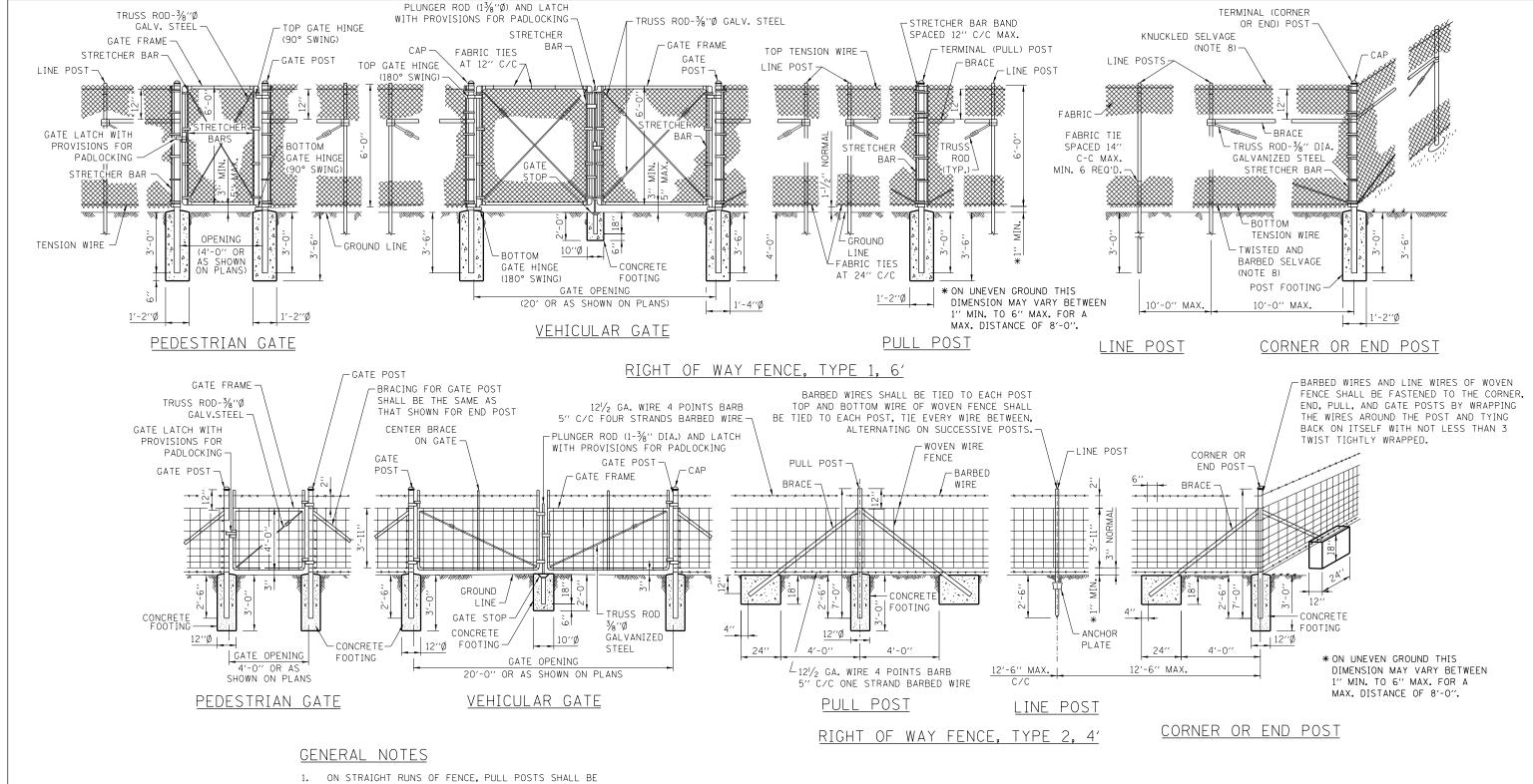
Illinois Tollway Standard Drawing Revisions

ion D		Appurtenances
	Standard	Modification Summary Effective: 03-31-2016
		The electronic (n II) consists of the Otto Louis
	All	The electronic (pdf) version of the Standard Drawings are now made searchable (text).
	D2	Symbols and Patterns
	Sheet 1	Ditch check symbol was revised to match IDOT and Section K revision.
	D4	Roadway Delineators and Reflectors
	All	Title changed to match 2016 IDOT Standard Specifications.
	Sheet 2	Revised detail of roadway delineator circular reflectors attachment to post to match IDOT Standard.
		Circular Reflectors: Single unit installation changed from 1" to 2" from top of post.
		Circular Reflectors: Double unit spacing changed from 4" to 5".
		New detail of roadway delineator rectangular reflector to post per Tollway Maintenance.
	D5	Permanent Pavement Markings
		Revised note 4 to clarify that "permanent" lane lines and edge lines to be grooved, unless otherwise noted.
		Added note 8 concerning grooving restrictions at toll plazas and ORT sections.
	D6	Pavement Marking and Shoulder Rumble Strip Details
	Sheet 1	Theoretical gore information has been detailed in the Roadway Design Criteria.
	CHOCK I	Added rumble strip to lane drop detail.
	Sheet 2	Theoretical gore information has been detailed in the Roadway Design Criteria.
	Sheet 3	Added IPO lane pavement marking.
	D7	Landscape Planting Details
		Note 3. Increased minimum distance of trees to fences from 5' to 6'.
		Note 7. Added "tree and shrub" descriptions to plantings.
		Reduced mulch layer for shrub planting from 5" to 4".
	D8	Raised Pavement Lane Marker
		Added guidance to Detail C when raised pavement markers are to be placed in auxiliary lanes.
		Revised note 1 collector-distributor (C-D) notation per MUTCD.
	-	



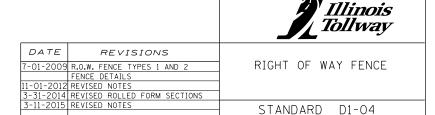




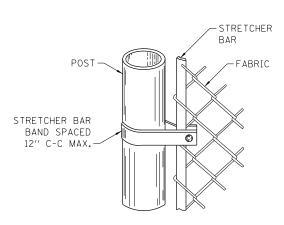
- 1. ON STRAIGHT RUNS OF FENCE, PULL POSTS SHALL BE USED AT 500' CENTERS FOR TYPE 1 AND 330' CENTERS FOR TYPE 2.
- WHERE R.O.W. FENCE FOLLOWS R.O.W. LINE IT SHALL BE INSTALLED PARALLEL TO AND 6" INSIDE THE R.O.W. LINE ON ILLINOIS TOLLWAY PROPERTY.
- LINE POSTS AND BRACES SHALL BE ON ILLINOIS TOLLWAY SIDE OF FENCE FABRIC.
- . WHEN THE TENSION OF THE FENCE TENDS TO PULL THE POSTS FROM THE GROUND, THE LINE POSTS SHALL BE ANCHORED WITH ANCHORAGE SPECIFIED FOR CORNER POSTS.
- 5. AT LOCATION WHERE THE PROPOSED FENCE IS TO BE CONNECTED TO AN EXISTING POST, THE REQUIRED CONNECTIONS AND BRACING INCLUDING ALL NECESSARY HARDWARE SHALL BE CONSIDERED INCIDENTAL TO THE FENCE OF THE TYPE SPECIFIED.

- 5. WHEN THE FENCE LINE HAS A CHANGE IN DIRECTION OF 10° OR MORE, A CORNER POST SHALL BE PLACED AT THE POINT OF CHANGE. WHERE THE ANGLE OF CHANGE IS LESS THAN 10° A PULL POST SHALL BE USED.
- WHERE GRADE LINE HAS A CHANGE IN SLOPE OF 10° OR MORE, A CORNER POST WITH BRACING AS REQUIRED SHALL BE PLACED. WHERE ANGLE IS LESS THAN 10° LINE POST MAY BE USED.
- B. WHERE RIGHT-OF-WAY FENCE, TYPE 1 IS USED, THE FABRIC SHALL BE KNUCKLED SELVAGE ON TOP AND TWISTED AND BARBED SELVAGE ON BOTTOM.
- 9. PLACEMENT OF BRACED END POSTS OR CORNER POSTS WITHIN THE CLEAR ZONE SHALL BE AVOIDED.

SHEET 1 OF 3

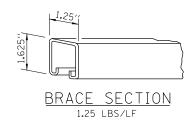


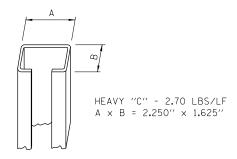
APPROVED. CHIEF ENGINEER DATE 7-1-2009



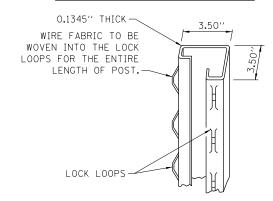
STRETCHER BARS SHALL BE GALVANIZED FLAT STEEL BAR NOT LESS THAN 1/4" \times 3/4" AND THE STRETCHER BAR BANDS SHALL BE GALVANIZED FLAT STEEL BAR NOT LESS THAN 1/8" \times 1" WITH A 3/8" GALVANIZED CARRIAGE BOLT.

METHOD OF FASTENING STRETCHER BAR TO POST



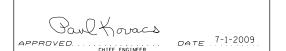


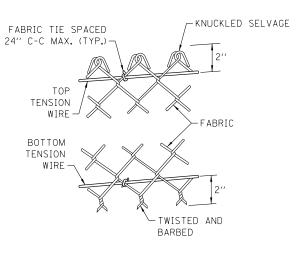
LINE POST "C" SECTION



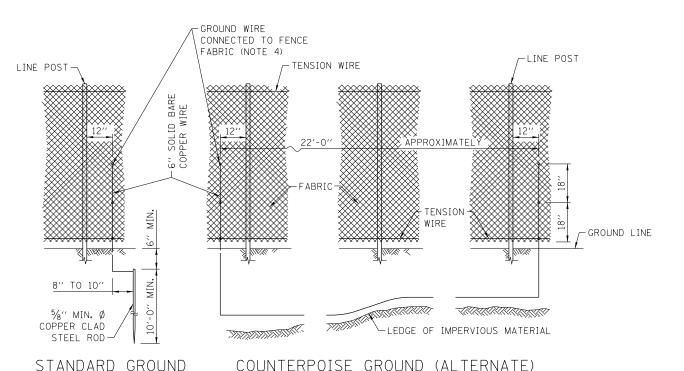
TERMINAL POST SECTION
5.10 LBS/LF

DETAILS OF ROLL FORMED SECTIONS





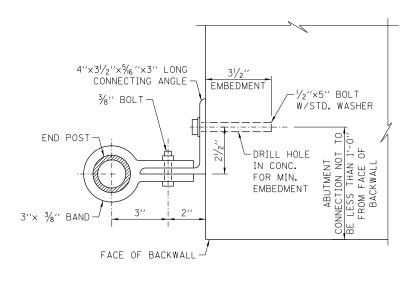
METHOD OF TYING FABRIC TO TENSION WIRES



NOTES FOR STANDARD AND COUNTERPOISE GROUND:

- 1. THE INTERVALS FOR GROUNDING CONTINUOUS FENCING SHALL NOT EXCEED 500 FEET IN URBAN AREAS AND 1000 FEET IN RURAL AREAS. FENCE ADJACENT TO A GATE SHALL BE GROUNDED A MAXIMUM DISTANCE 100 FEET EACH SIDE OF THE GATE.
- 2. FENCE CROSSING UNDER A POWER LINE SHALL BE GROUNDED, ONCE DIRECTLY UNDER THE CROSSING AND ONE ON EACH SIDE AT 25 TO 50 FEET AWAY. FENCE LOCATED DIRECTLY UNDER A TELEPHONE WIRE OR CABLE CROSSING SHALL HAVE A SINGLE GROUND.
- 3. COUNTERPOISE GROUNDS SHALL BE USED AT LOCATIONS WHERE GROUND RODS CAN NOT BE DRIVEN DUE TO IMPERVIOUS EARTH MATERIALS.
- 4. THE GROUND WIRES SHALL BE CONNECTED TO FENCE FABRIC AND GROUND ROD BY STAINLESS STEEL BOLTS AND WASHERS. THE LOWER CONNECTION OF THE GROUND WIRE SHALL BE MADE TO THE BOTTOM TENSION WIRE.

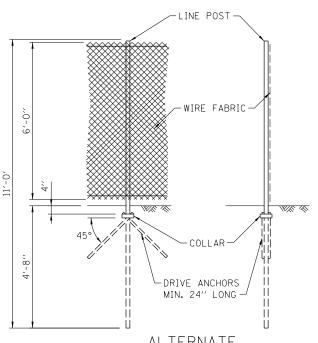
ELECTRICAL GROUNDING DETAILS



ABUTMENT CONNECTION DETAIL

NOTES FOR ABUTMENT CONNECTION:

1. WHEN ROLL FORMED SECTION IS USED IN LIEU OF PIPE AS END POST, THE POST SHALL BE BOLTED DIRECTLY TO THE ABUTMENT WALL WITH $2\frac{1}{2}$ " \times 5" BOLTS WITH STANDARD WASHERS MEETING THE APPROVAL OF THE ENGINEER.



ALTERNATE

DRIVEN LINE POST ANCHORAGE

WITH OR WITHOUT DRIVE ANCHORS

NOTE FOR FENCE POST:

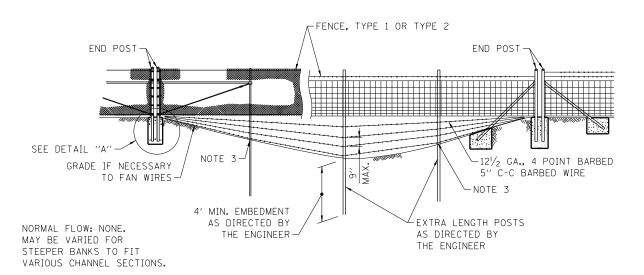
ALTERNATE DRIVEN LINE POST ANCHORAGE IS OPTIONAL. DRIVEN LINE POST ANCHORAGE WITHOUT DRIVE ANCHORS MAY BE USED IN AVERAGE TO GOOD SOIL CONDITIONS. WHEN SOIL IS WEAKER (OU < 1.25 TONS/ SO. FT.) AND STABILITY OF THE POST IS QUESTIONABLE, DRIVE ANCHORS SHALL BE USED. TYPES, SHAPES, DIMENSIONS AND COATING REQUIREMENTS OF DRIVE ANCHORS (ANCHOR BLADES AND COLLARS) FOR DIFFERENT TYPE OF POSTS SHALL BE AS RECOMMENDED BY THE MANUFACTURER.

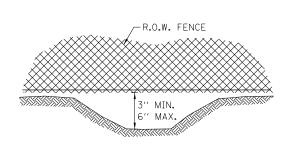
SHEET 2 OF 3

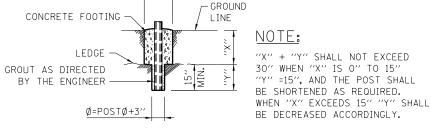


RIGHT OF WAY FENCE

STANDARD D1-04





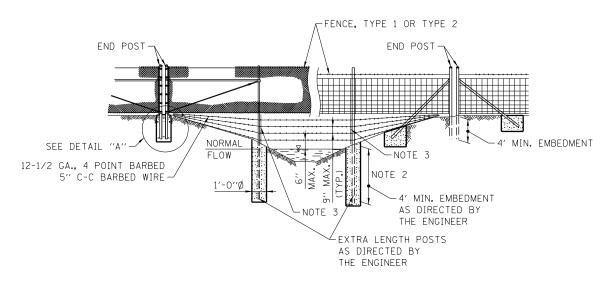


-Ø SAME AS REGULAR FOOTING

FOOTING FOR POST WHEN ROCK LEDGE IS ENCOUNTERED

FENCE INSTALLATION OVER DITCH

STREAM CROSSING, TYPE 1



STREAM CROSSING, TYPE 2

END POST 4" MAX. END POST NOT CENTERED IN CONCRETE

NOTES FOR STREAM CROSSING TYPE 1 AND TYPE 2:

- THESE INSTALLATION CONDITIONS ARE TYPICAL AND ARE NOT TO BE CONSTRUCT AS REPRESENTATIVE OF ALL CONDITIONS WHICH WILL BE ENCOUNTERED. CONSTRUCTION WILL BE VARIED AS REQUIRED OR DIRECTED TO MEET FIELD CONDITIONS.
- 2. FOR STREAM CROSSING OF THE TYPE REQUIRED THE BOTTOM BARBED WIRE SHALL BE ANCHORED TO CONCRETE FOOTING OR TO HOLES DRILLED IN POSTS, AND INTERMEDIATE WIRES SHALL BE TIED TO THE BOTTOM WIRE AND TO POSTS IN AN EVENLY SPACED FASHION TO PREVENT SLIPPAGE.
- 3. CONCRETE AND FITTINGS FOR ALL TYPES OF FENCE SHALL BE AS DETAILED FOR SIMILAR CONDITIONS PER STANDARD DRAWING.

THE FENCE FABRIC SHALL BE REPLACED BY BARBED WIRE STRANDS AT 12" MAXIMUM CENTERS BETWEEN THE END POSTS WHEN SHOWN ON THE PLANS THE BARBED WIRE STRANDS, IF REQUIRED, SHALL BE INCIDENTAL TO THE VARIOUS TYPES OF STREAM CROSSING REQUIRED.

DETAIL A



EVENLY SPACED FASHION TO PREVENT SLIPPAGE.

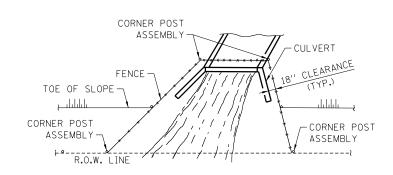
CALLED FOR IN THE CONTRACT PLANS. 2. WHEN THE WIDTH OF THE CULVERT MAKES NECESSARY TO ANCHOR A POST TO THE TOP OF THE CULVERT A CAST IDON SHOE OF OTHER DEVICE.

NOTES FOR INSTALLATION AROUND HEADWALL:

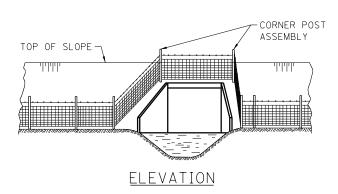
2. WHEN THE WIDTH OF THE CULVERT MAKES NECESSARY TO ANCHOR A POST TO THE TOP OF THE CULVERT, A CAST IRON SHOE OR OTHER DEVICE APPROVED BY THE ENGINEER SHALL BE USED. THE COST OF ANCHORING THE POST SHALL BE INCIDENTAL TO THE TYPE OF FENCE REQUIRED.

THIS TYPE OF INSTALLATION IS TO BE USED ONLY WHEN SPECIFICALLY

INSTALLATION AROUND HEADWALL



PLAN AT HEADWALL







RIGHT OF WAY FENCE

STANDARD D1-04

SURVEY AND ROADWAY ITEMS EROSION & SEDIMENT CONTROL, LANDSCAPING ITEMS EXISTING PROPOSED EXISTING PROPOSED PROPOSED EXISTING CLEARING & GRADING LIMITS _ . ___ . ___ . ___ . CONSTRUCTION JOINT W/DOWEL BARS (LIMITS OF CONSTRUCTION) DIVERSION DIKE \boxtimes \boxtimes EROSION CONTROL BLANKET BENCHMARK DRAINAGE DIVIDE DRAINAGE PATH CANTILEVER SIGN STRUCTURE OVER SEEDING CLASS B1 BUTTERFLY SIGN STRUCTURE SEDIMENT BASIN OVER SEEDING CLASS B2 DOUBLE COLUMN GROUND MOUNTED SIGN AGGREGATE BERM CULVERT INLET SINGLE COLUMN GROUND MOUNTED SIGN PROTECTION-STONE SEEDING CLASS A1 CULVERT INLET SPAN TYPE SIGN STRUCTURE PROTECTION-FENCE SEEDING CLASS A2 DB DEWATERING BASIN TRIPLE COLUMN GROUND MOUNTED SIGN $\begin{bmatrix} 0 & 0 & 0 \end{bmatrix}$ - FIPB -FILTER FABRIC SEEDING CLASS A3 000000000 INLET PROTECTION, BASKET TYPE RUMBLE STRIP FILTER FABRIC DRAINAGE AND UTILITY ITEMS; ROADWAY LIGHTING AND SIGNS INLET PROTECTION, COVER TYPE SEEDING CLASS A4 - FB ----- FB ---FLOTATION BOOM PRO<u>POSED</u> EXISTING (IC) INITIAL CONSTRUCTION ITEM SEEDING CLASS A5 BOX CULVERT WITH HEADWALL RECTANGULAR INLET PROTECTION CABLE IN DUCT W/O GROUND SEEDING CLASS A6 LOW POINT TEMPORARY ROCK CHECK DAM OVERHEAD ELECTRICAL SEEDING CLASS D1 TEMPORARY DITCH CHECK OVERHEAD TELEPHONE PIPE CULVERT SODDING (SALT TOLERANT) CHEED LAKE OR POND **(1)** QUARRY SEDIMENT BASIN TEMPORARY GROUND COVER STREAM SWAMP * * * * * * * SILT FENCE $\langle A \rangle$ CABLE OR CONDUIT TAG ____SSF___ SUPER SILT FENCE TURF REINFORCEMENT MAT Ε ELECTRICAL MANHOLE STABILIZED CONSTRUCTION ENTRANCE [] LD LIGHT-DUTY BOX STONE OUTLET STRUCTURE SEDIMENT TRAP ROADWAY LUMINAIRE STREAM DIVERSION TEMPORARY PIPE SLOPE DRAIN TEMPORARY RIPRAP STEEL TOWER -**\-**TS-**\-**TEMPORARY SWALE T TELEPHONE MANHOLE 0 TREES AND STUMP UNDERPASS LUMINAIRE TREE PROTECTION SHEET 1 OF 3 \circ WATER POINT W W WATERMAIN VALVE VAULT Illinois TEMPORARY STREAM CROSSING \bigcirc^{W} *Tollway* WATER WELL \otimes WOOD POLE DATFREVISIONS

DATE 7-1-2009

APPROVED...

CHIEF ENGINEER

ELECTRICAL AND MECHANICAL ITEMS

				EXISTING	PROPOSED	
	HOME RUN TO PANEL AS NOTED	G	STANDBY GENERATOR	А	—— А ——	COMPRESSED AIR (A)
8	INDICATES CIRCUIT TURNING DOWN	A _) _P	PANEL CIRCUIT BREAKER	AR	AR	ACID RESISTANT WASTE OR DRAIN
©	INDICATES CIRCUIT TURNING UP					
(•)	GROUND ROD	С	MECHANICALLY HELD LIGHTING COIL	ARV	ARV	ACID RESISTANT VENT
	GROUNDING TRIAD	CR	CONTROL RELAY COIL	DS	DS	STORM SEWER (DOWNSPOUT)
		\$	SINGLE-POLE SWITCH	G	G	GAS LINE
KVA V •,W	TRANSFORMER		DUPLEX RECEPTACLE	——— нс ———	——— нс ———	HOT GAS BYPASS LINE (HG)
	MOTOR	C	4P, 4W, WEATHERPROOF RECEPTACLE WITH SPRING DOOR, BACK BOX, & ANGLE ADAPTER	—————————————————————————————————————	——— HHWR ———	HEATING HOT WATER RETURN (HHWR)
O	AUTOMATIC TRANSFER SWITCH (ATS)	\bigcirc B	4P, 4W, WEATHERPROOF RECEPTACLE WITH SPRING DOOR & BACK BOX	———— HHWS ————	HHWS	HEATING HOT WATER SUPPLY (HHWS)
JB OR (J)	JUNCTION BOX	GFI	DUPLEX RECEPTACLE WITH GROUND FAULT PROTECTION	IA	IA	DRY COMPRESSED AIR (IA-INSTRUMENT AIR)
	DISCONNECT SWITCH	А	CONTROL BUILDING LIGHTING 1' X 4' INDUSTRIAL FLUORESCENT FIXTURE, PORCELAIN REFLECTOR, ELECTRONIC BALLAST.	——— Р ———	—— Р ——	PROCESS WATER ("P" WATER) LINE
A	DISCONNECT SWITCH	В	COMPACT WALL-MOUNTED LOW WATTAGE HPS FIXTURE WITH WIRE GUARD & SINGLE FACTORY INSTALLED FUSE	PW	——————————————————————————————————————	PROTECTED WATER OR PLANT WATER (PW)
A \	CIRCUIT BREAKER	c T	EMERGENCY LIGHT UNIT WITH 2-6 VOLT, 12 WATT SEALED BEAM HALOGEN LAMPS WITH WALL MOUNTING BRACKET	RD	RD	REFRIGERANT DISCHARGE LINE (RD)
A	MANUAL TRANSFER SWITCH	D	LANE LIGHTING - HEAVY DUTY ALUMINUM HOUSING WITH ENCLOSED REFLECTOR & TEMPERED GLASS LENS W/AUTO REGULATOR BALLAST. ASYMMETRIC PATTERN	RS	RS	REFRIGERANT SUCTION LINE (RS)
SW.			WIRE	v	v	VENT LINE (V)
WH)	SELF CONTAINED UTILITY METERING	<u> </u>	CONDUIT			

SHEET 2 OF 3



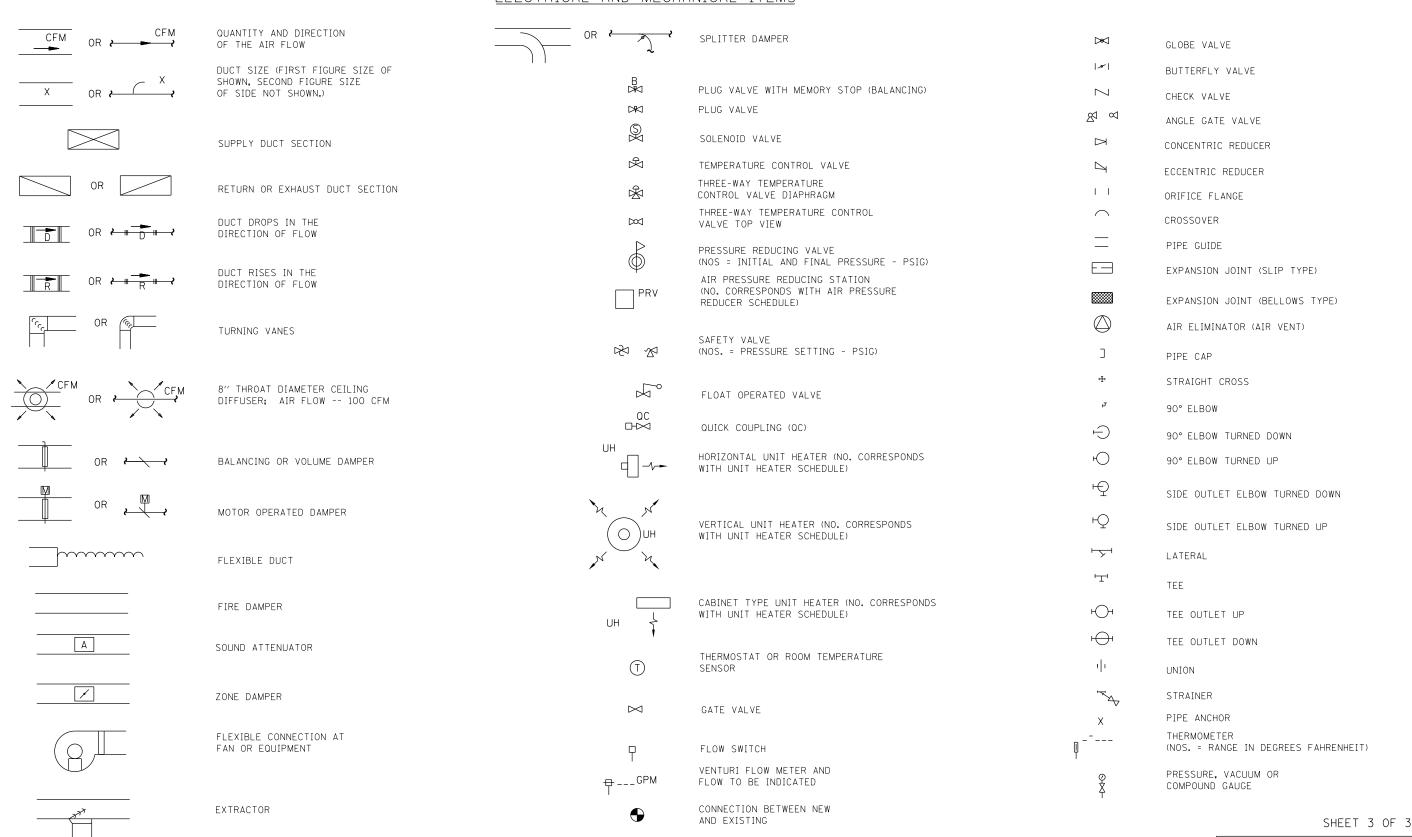
NOTE:

ALL SYMBOLS AND PATTERNS ON THIS DRAWING ARE PROPOSED UNLESS OTHERWISE NOTED.

SYMBOLS AND PATTERNS

STANDARD D2-04

ELECTRICAL AND MECHANICAL ITEMS





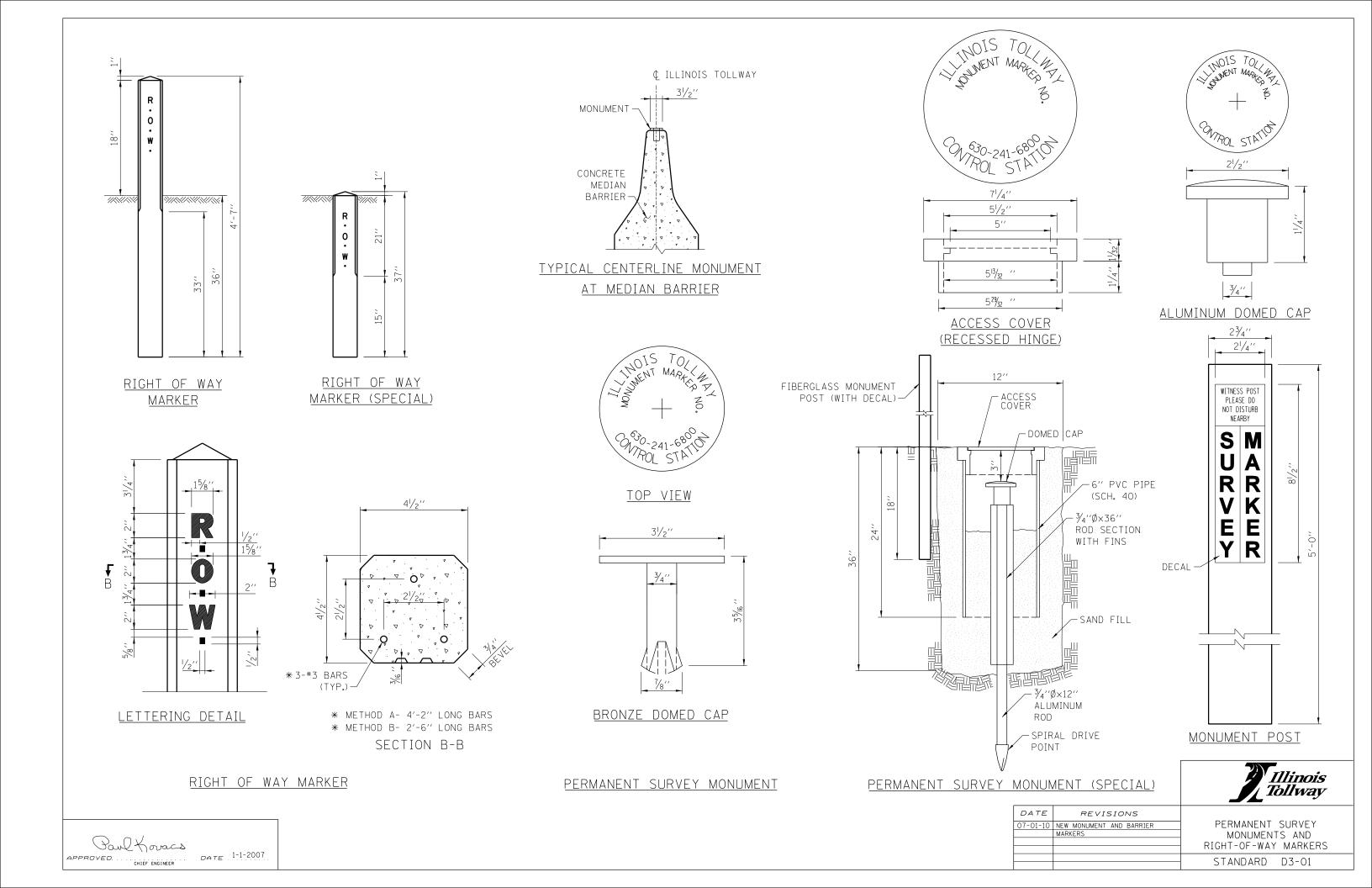
NOTE:

ALL SYMBOLS AND PATTERNS ON THIS DRAWING ARE PROPOSED UNLESS OTHERWISE NOTED.

SYMBOLS AND PATTERNS

STANDARD D2-04

Paul Koracs CHIEF ENGINEER DATE 7-1-2009 APPROVED....



	PERMANENT DELINEATION SPACING					
		IIAM	NLINE	RAMP		
	REFLECTORS	TANGENT	CURVE	TANGENT	CURVE	
*	GUARDRAIL	100′	100′	100′	TABLE A	
*	BARRIER WALL (DOUBLE FACE)	100′	100′	100′	TABLE A	
*	BARRIER WALL (SINGLE FACE)	100′	100′	100′	TABLE A	
	SHOULDER NARROWING	3 @ 15′	3 @ 15′	3 @ 15′	3 @ 15′	
	BRIDGE APPROACHES	3 @ 15′	3 @ 15′	3 @ 15′	3 @ 15′	
*	BRIDGE PARAPET	50′	50′	50′	50′	
*	NOISE ABATEMENT WALL (CRASH WORTHY)	100′	100′	100′	TABLE A	
	ROADWAY DELINEATORS	MAIN	MAINLINE		MP	
		TANGENT	CURVE	TANGENT	CURVE	

POST MOUNTED DELINEATOR	200′	200′	200′	TABLE A		
POST MOUNTED DELINEATOR (RAMP TAPERS AND TANGENTS)	100′	100′	NA	NA		
TEMPORARY DELINEATION SPACING						

TEMPORARY DELINEATION SPACING						
	TANGENT	REVERSE CURVE	SHIFT	TAPER		
TEMPORARY CONCRETE BARRIER	50′	25′	25′	25′		

* WHEN ADJACENT SHOULDER IS USED AS A TRAVELED LANE, USE SPACING REQUIREMENTS AS SHOWN FOR TEMPORARY DELINEATION.

TABLE A				
REFLECTOR SPACING	ON RAMP-CURVES			
RADIUS OF CURVE (FT.)	SPACING ALONG CURVE (FT.)			
LESS THAN 1050	50			
1050-1299	100			
1300-1999	125			
2000-2999	150			
3000-3999	175			
MORE THAN 3999	200			

GENERAL NOTES:

EMERGENCY TURNAROUNDS DELINEATION-THE FOLLOWING DELINEATION SHOULD BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT APPROACHING EMERGENCY TURNAROUNDS.

- A. ONE-HALF OF A MILE IN ADVANCE OF THE EMERGENCY TURNAROUNDS ONE WHITE REFECTOR UNIT OVER THREE AMBER REFLECTOR UNITS.
- B. ONE-FOURTH OF A MILE IN ADVANCE OF THE EMERGENCY TURNAROUNDS ONE WHITE REFLECTOR UNIT OVER TWO AMBER REFLECTOR UNITS.
- C. AT A POINT NEAR THE INTERSECTION OF THE EDGE OF THE LEFT SHOULDER AND NEAR EDGE OF THE EMERGENCY TURNAROUNDS ONE WHITE REFLECTOR UNIT OVER ONE AMBER REFLECTOR UNIT.

NOTES FOR ROADWAY DELINEATORS. POST MOUNTED INSTALLATION:

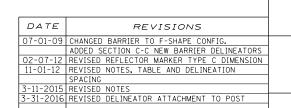
- 1. A. MAINLINE-SINGLE WHITE REFECTOR UNITS SHALL BE PLACED CONTINUOUSLY ON THE RIGHT AND SINGLE AMBER REFLECTOR UNITS SHALL BE PLACED ON THE LEFT ON MAIN LINE SECTIONS WITHOUT BARRIER WALL.
 - B. RAMPS-SINGLE REFLECTOR UNITS SHALL BE PLACED ON THE OUTSIDE OF ALL CURVED SECTIONS OF RAMPS, SINGLE WHITE SHALL BE PLACED ON THE RIGHT SIDE AND AMBER ON THE LEFT SIDE. THE DELINEATORS SHALL BE OVERLAPPED FOR A SHORT DISTANCE TO CLEARLY INDICATE WHERE DELINEATION ON ONE SIDE OF THE RAMP ENDS AND DELINEATION ON THE OTHER SIDE APPEARS.
 - C. DOUBLE WHITE REFLECTOR UNITS SHALL BE PLACED ON THE RIGHT AT ALL ACCELERATION AND DECELERATION LANES.
- 2. REFLECTORS SHALL BE MOUNTED ON SUPPORTS SUCH THAT THE TOP OF REFLECTORS IS FOUR FEET ABOVE THE ROADWAY EDGE AND TWO FEET OUTSIDE THE OUTER EDGE OF THE PAVED SHOULDER OR TWO FEET MINIMUM AND SIX FEET MAXIMUM OUTSIDE THE BACKS OF CURBS OR GUTTERS.
- 3. IN ALL CASES, THE COLOR OF THE REFLECTORS SHALL BE THE SAME AS THE ADJACENT EDGE LINE EXCEPT AS SPECIFIED IN GENERAL NOTES.
- 4. POST MOUNTED REFLECTORS SHALL BE PLACED CONTINUOUSLY AS NOTED ABOVE IN CONJUNCTION WITH GUARDRAIL INSTALLED.
- 5. THE PLACEMENT OF ROADWAY DELINEATOR "CIRCULAR REFLECTORS" SHALL BE USED FOR ALL MINOR PROJECTS WHICH HAVE A LENGTH OF LESS THAN 5 MILES. THE PLACEMENT OF ROADWAY DELINEATOR "RECTANGULAR REFLECTORS" SHALL BE USED FOR ALL MAJOR PROJECTS WHICH HAVE A LENGTH GREATER THAN 5 MILES. ALL ROADWAY DELINEATORS WITHIN A ROADWAY SEGMENT SHALL BE OF THE SAME TYPE.

NOTES FOR GUARDRAIL AND BARRIER WALL REFLECTOR:

1. REFLECTORS TYPE B AND TYPE C SHALL HAVE REFLECTIVE SURFACE ON ONE SIDE ONLY.

SHEET 1 OF 3

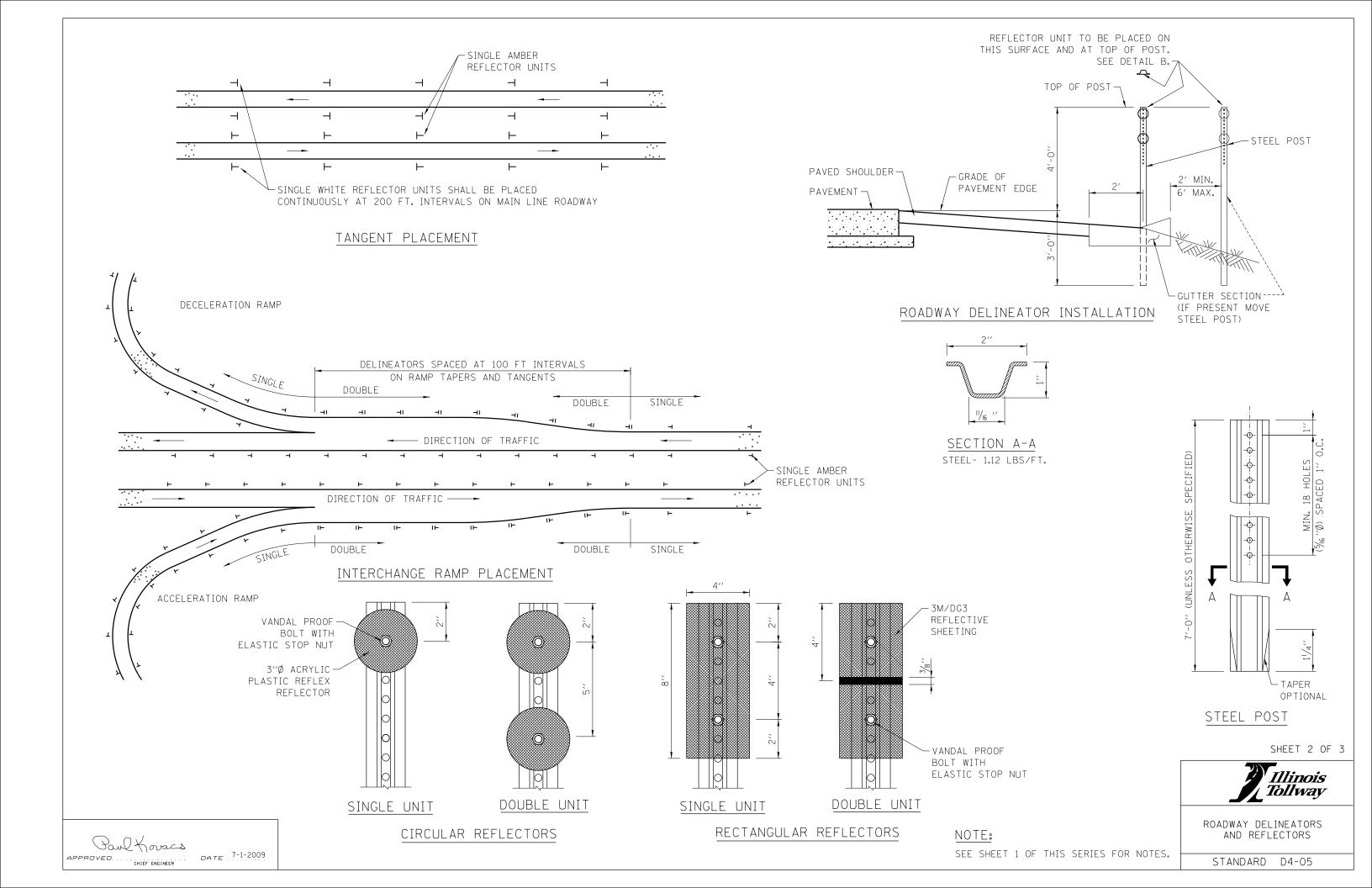
¹ Illinois Tollway

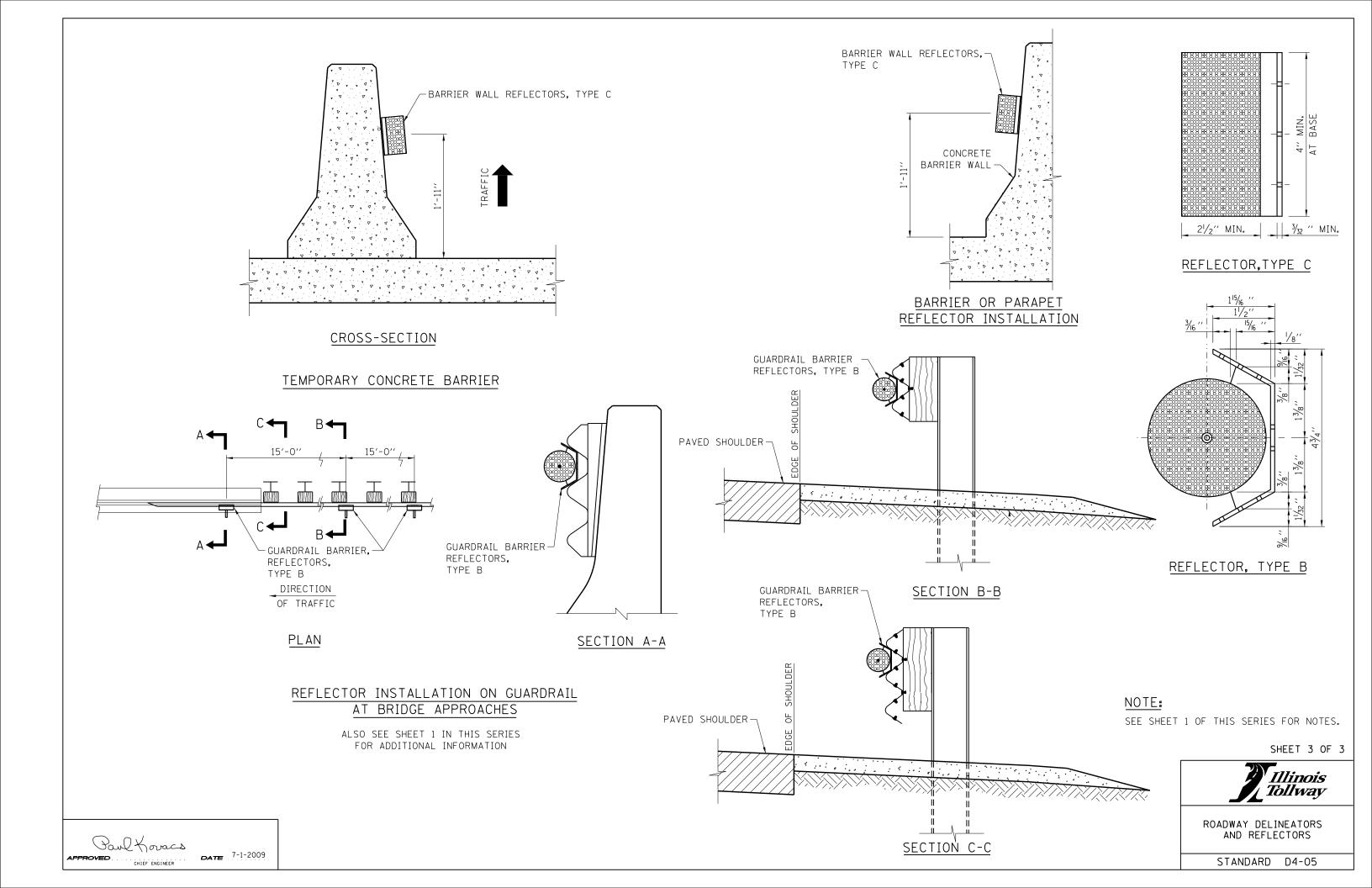


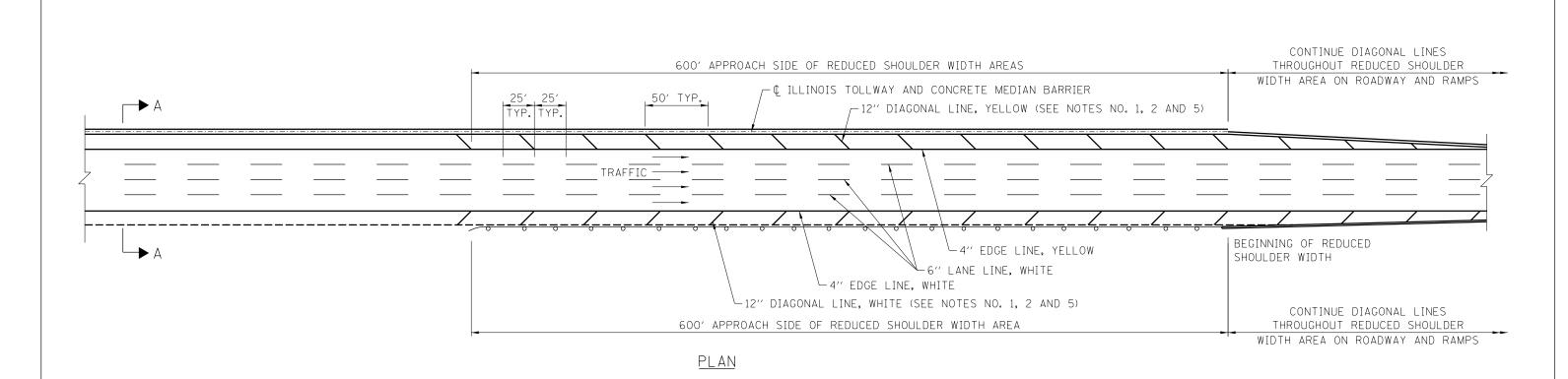
ROADWAY DELINEATORS AND REFLECTORS

STANDARD D4-05

APPROVED CHIÉF ENGINEER DATE 7-1-2009







¢ ILLINOIS TOLLWAY 49'-0" OUTSIDE MEDIAN SHOULDER SHOULDER 12'-0" 12'-0'' 12'-0'' 13'-0'' 4" SOLID YELLOW 4" SOLID WHITE (GROOVED) -(GROOVED) 6" WHITE SKIP DASH (GROOVED)

SECTION A-A

ROADWAY AND SHOULDER STRIPING - NEW CONSTRUCTION

GENERAL NOTES:

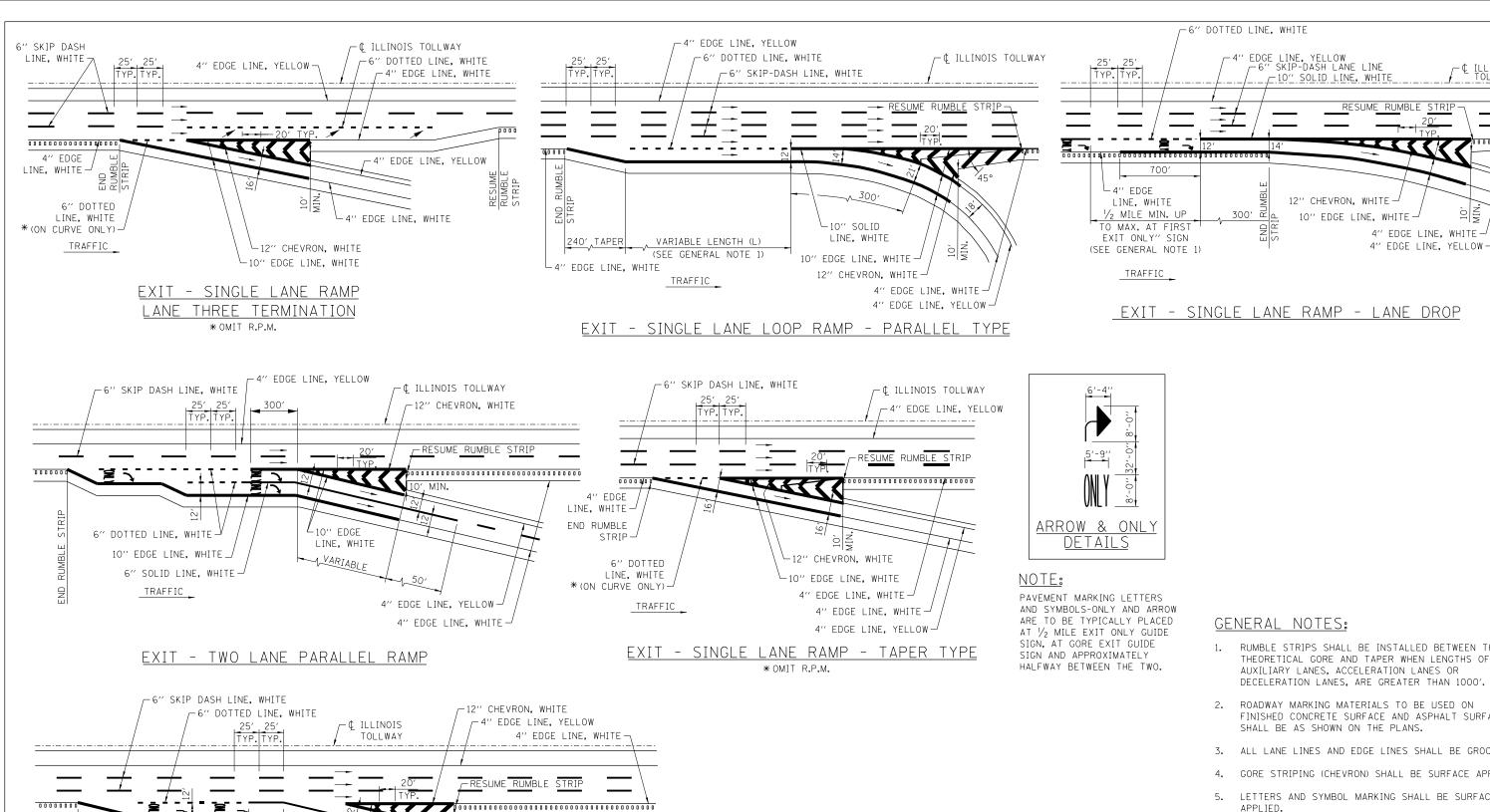
- 1. DIAGONAL SHOULDER STRIPING REQUIRED WHERE THE SHOULDER WIDTH IS LESS THAN STANDARD.
- 2. ROADWAY MARKING MATERIALS TO BE USED ON FINISHED CONCRETE SURFACE AND ASPHALT SURFACE SHALL BE AS SHOWN ON THE PLANS.
- 3. WHERE THE GUARDRAIL ENCROACHES ON THE SHOULDER THE DIAGONAL MARKINGS SHALL EXTEND AS CLOSE TO THE FACE OF THE RAIL AS POSSIBLE.
- 4. ALL PERMANENT LANE LINES AND EDGE LINES SHALL BE GROOVED, ON ROADWAY SURFACES, UNLESS OTHERWISE NOTED.
- 5. DIAGONAL STRIPING SHALL BE SURFACE APPLIED.
- 6. GORE STRIPING (CHEVRON) SHALL BE SURFACE APPLIED.
- 7. ALL LANE LINES AND EDGE LINES SHALL BE SURFACE APPLIED ON BRIDGES.
- 8. PAVEMENT MARKINGS SHALL NOT BE GROOVED AT THE CASH SIDE OF MAINLINE TOLL PLAZAS OR THE OPEN ROAD TOLLING (ORT), 100' CONTINUOUSLY REINFORCED CONCRETE (CRC) PAVEMENT SECTION OF MAINLINE UNDER MONOTUBES.

		Illinois Tollway
DATE	REVISIONS	
7-01-09	ADDED LINE GROOVING NOTES	PERMANENT PAVEMENT
2-07-12	REVISED NOTES	MARKINGS
11-01-12	REVISED EDGELINE OFFSET, REVISED NOTES	
3-31-14	REVISED NOTES	
3-31-16	REVISED NOTES	STANDARD D5-06
		JIANDAND DO 00

POUL KOVACS

APPROVED.... CHIEF ENGINEER

DATE 7-1-2009



-4" EDGE LINE, YELLOW

END RUMBL STRIP

Paul Koracs

CHIEF ENGINEER

L/2

VARIABLE LENGTH (L) (SEE GENERAL NOTE 1)

DATE 7-1-2009

TRAFFIC

300′

LINE, WHITE

EXIT - TWO LANE RAMP

4" EDGE LINE, WHITE 6" SKIP DASH LANE LINE, WHITE-

- RUMBLE STRIPS SHALL BE INSTALLED BETWEEN THE THEORETICAL GORE AND TAPER WHEN LENGTHS OF AUXILIARY LANES, ACCELERATION LANES OR DECELERATION LANES, ARE GREATER THAN 1000'.
- 2. ROADWAY MARKING MATERIALS TO BE USED ON FINISHED CONCRETE SURFACE AND ASPHALT SURFACE SHALL BE AS SHOWN ON THE PLANS.
- 3. ALL LANE LINES AND EDGE LINES SHALL BE GROOVED.
- GORE STRIPING (CHEVRON) SHALL BE SURFACE APPLIED.
- LETTERS AND SYMBOL MARKING SHALL BE SURFACE
- 6. DOTTED LINES SHALL CONSIST OF 3' LINE AND 9' GAPS.

SHEET 1 OF 3

Illinois *Tollway*

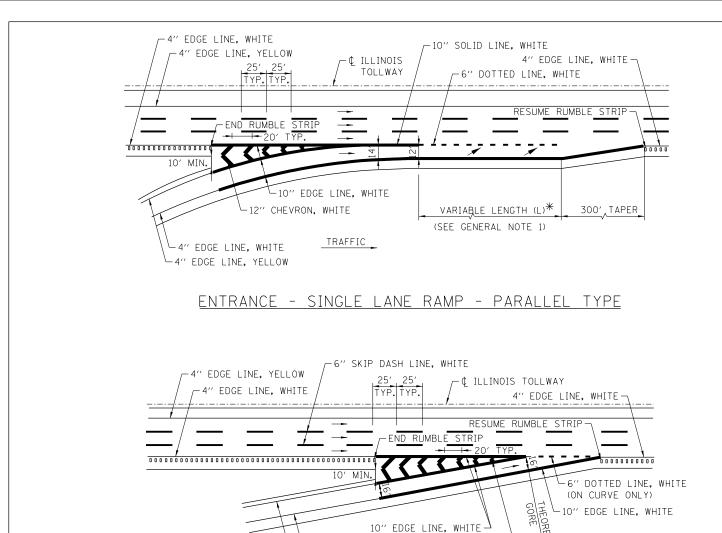
√ [©] ILLINOIS TOLLWAY

4" EDGE LINE, WHITE -

0000000000

7	REVISIONS	DATE
T	ADDED LINE GROOVING NOTES	07-01-09
]	REVISED NOTES AND ADDED DOTTED LINE	11-01-12
	REVISED SINGLE LANE LOOP RAMP DETAILS	03-01-13
٦	ADDED LANE REDUCTION MARKINGS	03-31-14
]	REVISED DETAILS, ADDED LANE-REDUCTION	3-11-2015
l	ARROWS AND SHEET 3	
	REVISED NOTES, ADDED IPO PAVEMENT MARKING	3-31-2016
٦	DETAIL.	

PAVEMENT MARKING AND SHOULDER RUMBLE STRIP DETAILS STANDARD D6-06



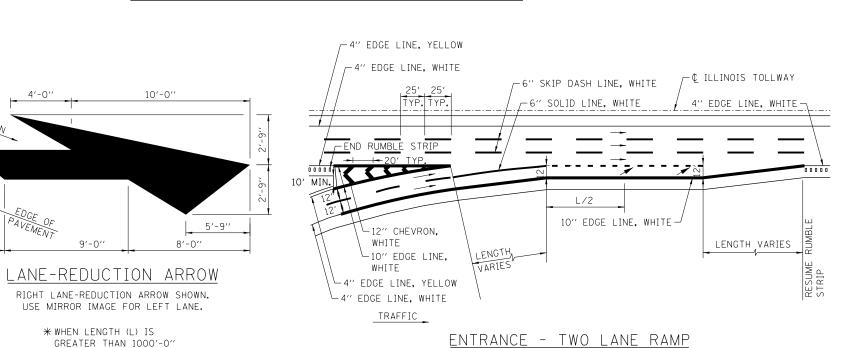


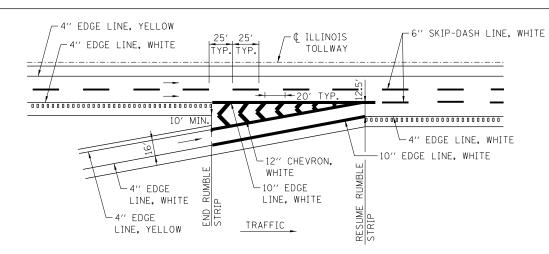
12" CHEVRON,

4" EDGE LINE, WHITE

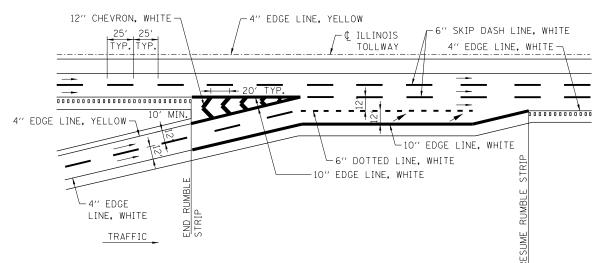
-4" EDGE LINE, YELLOW

TRAFFIC

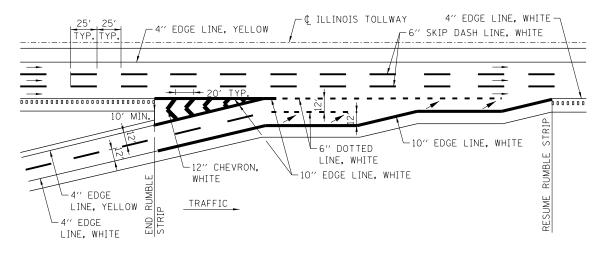




ENTRANCE - SINGLE LANE RAMP WITH ADDED MAINLINE LANE



ENTRANCE - TWO LANE RAMP WITH ADDED MAINLINE LANE



ENTRANCE - TWO LANE PARALLEL RAMP

SEE SHEET 1 IN

GENERAL NOTES.

THIS SERIES FOR

SHEET 2 OF 3

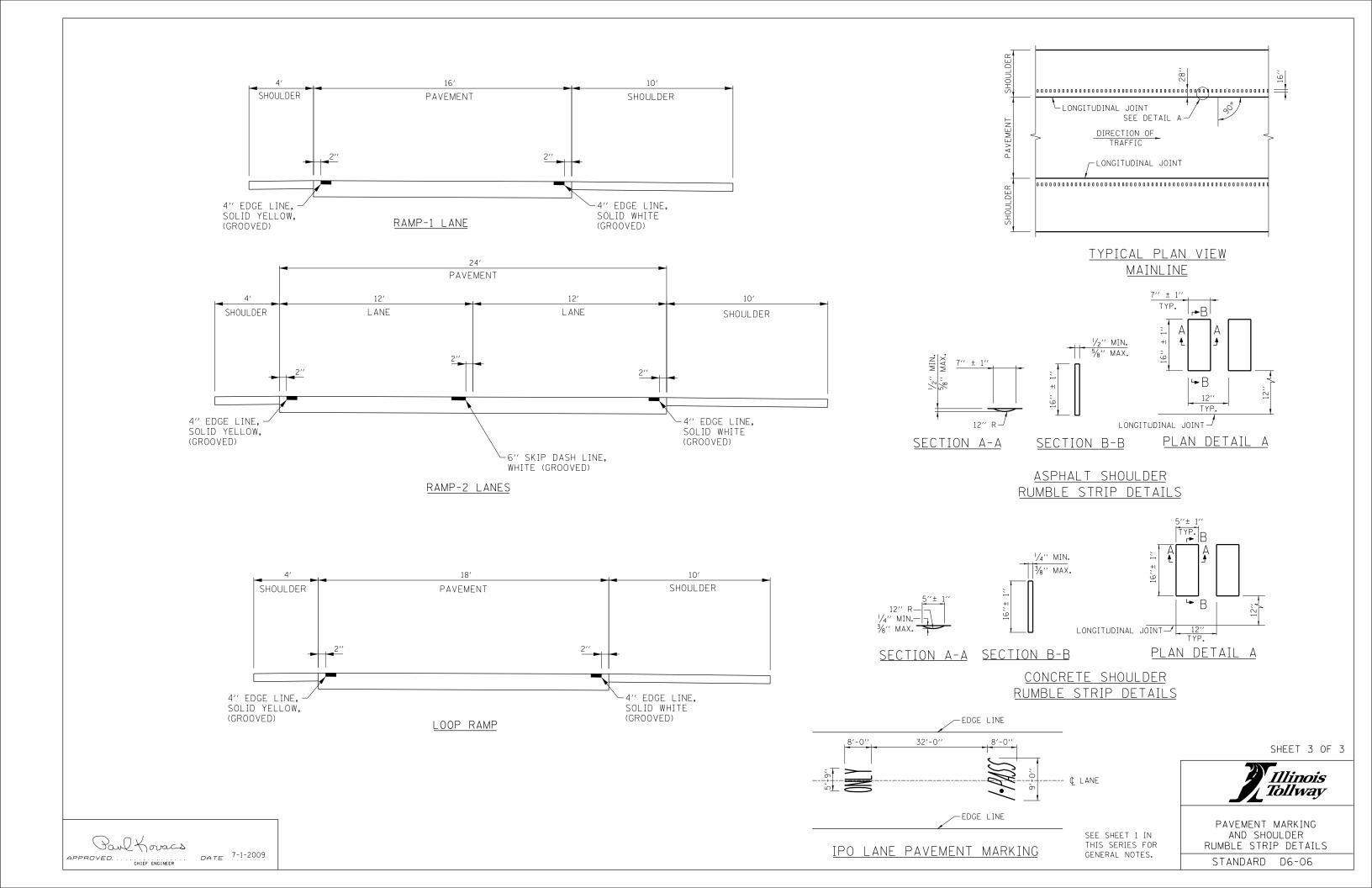


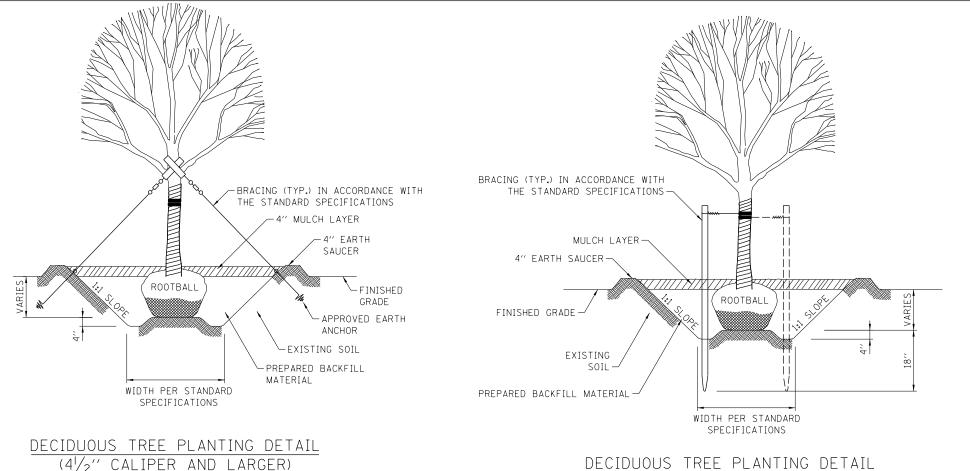
PAVEMENT MARKING AND SHOULDER RUMBLE STRIP DETAILS STANDARD D6-06

ENTRANCE - TWO LANE RAMP

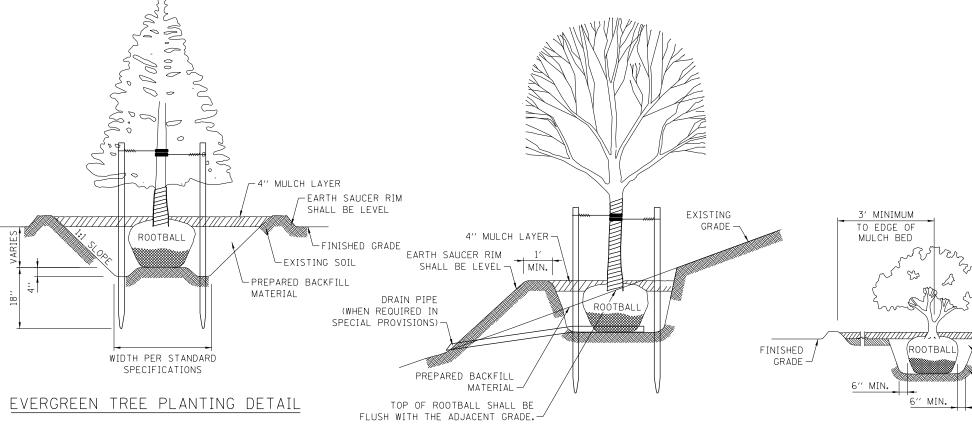
Paul Koracs DATE 7-1-2009 CHIEF ENGINEER

PLACE ARROWS AS SHOWN





DECIDUOUS TREE PLANTING DETAIL GREATER THAN 4 FT HEIGHT AND LESS THAN 41/2" CALIPER)



PLANTING NOTES:

- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UNDERGROUND UTILITIES, FIBER OPTICS, STORM SEWERS AND DRAINAGE STRUCTURES IN THE FIELD PRIOR TO THE EXCAVATION OF ANY PLANT PITS OR PLANTING BEDS. LOCATIONS OF TREE AND SHRUB PLANTINGS SHALL BE ADJUSTED TO AVOID DAMAGING ANY UNDERGROUND FEATURES.
- 2. THE PLANT LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATELY ONLY. THE EXACT LOCATIONS SHALL BE ADJUSTED AS REQUIRED IN THE FIELD BY THE ENGINEER. TREE LOCATIONS SHALL NOT BE MOVED CLOSER TO PAVEMENT EDGES THAN SHOWN ON THE PLANS OR A MINIMUM OF FIFTY (50) FEET.
- 3. TREES SHALL BE SPACED A MINIMUM OF SIX (6) FEET FROM FENCES.
- TREE AND SHRUB PLANTINGS SHALL NOT BLOCK ACCESS TO GATES IN FENCES.
- TREES PLANTED IN TURF AREAS SHALL BE SPACED A MINIMUM OF TEN (10) FEET FROM THE EDGE OF A SHRUB BED.
- TREES SHALL BE SPACED A MINIMUM OF TEN (10) FEET FROM NOISEWALLS OR OTHER STRUCTURES.
- DITCHES SHALL BE KEPT CLEAR OF TREE AND SHRUB PLANTINGS. THE MINIMUM VERTICAL DISTANCE BETWEEN DITCH BOTTOMS AND PLANTS SHALL BE THREE (3) FEET.
- IF DURING EXCAVATION, A PLANT HOLE OR PLANTING BED SHOWS POOR DRAINAGE, STANDING WATER OR AN IMPERVIOUS STRATUM OF SOIL, THE CONTRACTOR SHALL CEASE EXCAVATION AND SHALL NOTIFY THE ENGINEER. THE PLANT(S) SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER AND THE HOLE(S) OR BED SHALL BE FILLED IN AND RESTORED TO MATCH THE CONDITION AND VEGETATION OF THE ADJACENT AREA.
- IMPROPERLY PRUNED PLANTINGS WILL BE REJECTED AND REPLACEMENTS WILL IMMEDIATELY BE MADE BY THE CONTRACTOR.
- THE SIDES OF ALL PLANT PITS SHALL BE LOOSENED TO DISJOIN ANY GLAZING WHICH MAY OCCUR DURING THE DIGGING OPERATION.
- 11. TREE WRAPPING SHALL EXTEND TO THE LOWEST MAJOR BRANCH.
- 12. TOP OF ROOTBALL SHALL BE APPROXIMATELY 2 INCHES ABOVE ADJACENT FINISHED GRADE.
- 13. SHRUB PLANTINGS:

-4" MULCH LAYER

-EXISTING SOIL

CULTIVATED SHRUB BED WITH

-PREPARED BACKFILL MATERIAL

A 4" MINIMUM DEPTH

- A. UNLESS NOTED OTHERWISE, ALL SHRUBS SHALL BE PLANTED IN MULCHED BEDS. THE EDGE OF THE MULCH BED SHALL EXTEND A MINIMUM OF THREE (3) FEET BEYOND THE CENTERS OF THE PERIPHERAL PLANTS IN THE BED.
- THE EDGE OF A MULCH BED FOR SHRUB PLANTINGS ADJACENT TO A WALL, FENCE, GUARDRAIL OR OTHER FIXED OBJECT SHALL EXTEND TO THE OBJECT. THE PERIPHERAL PLANTS IN THE BED SHALL NOT BE PLANTED WITHIN FIVE (5) FEET OF THE OBJECT.
- WHEN A TREE IS LOCATED IN A SHRUB BED, THE MINIMUM DISTANCE BETWEEN THE TREE AND THE ADJACENT SHRUBS SHALL BE SIX (6) FEET.
- 14. THE CONTRACTOR SHALL RESTORE ALL AREAS, OBJECTS AND VEGETATION DISTURBED BY THE LANDSCAPE OPERATIONS TO ORIGINAL CONDITIONS.
- 15. STAKES, GUYWIRES AND ALL TREE SUPPORTS SHALL BE REMOVED AFTER ONE YEAR OR AS DIRECTED BY THE ENGINEER.
- 16. REMOVE ALL TWINE, ROPE, WIRE AND BURLAP FROM TOP HALF OF ROOTBALL. THE LOWER HALF OF BURLAP SHALL BE FOLDED TOWARD THE BOTTOM OF THE ROOTBALL.



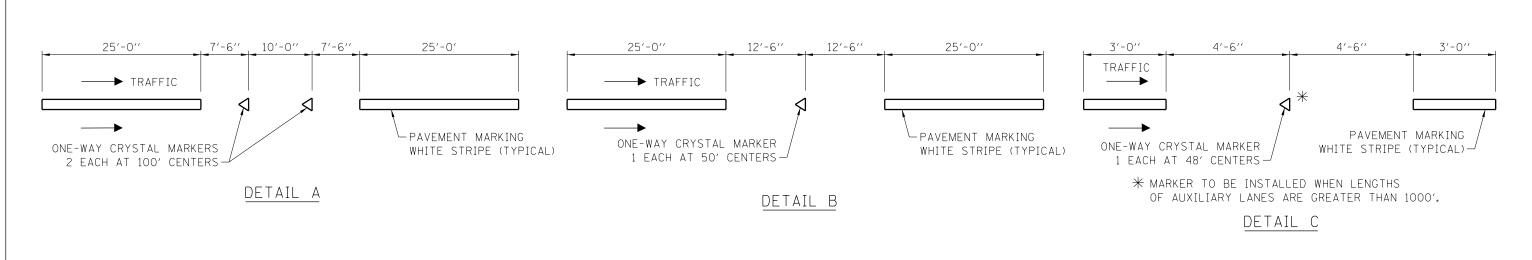
SHRUB PLANTING DETAIL

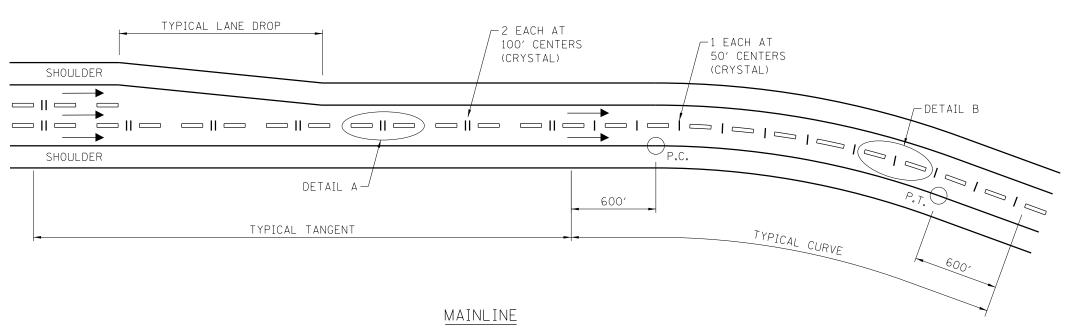
DATE REVISIONS 02-07-12 REVISED POST BRACING DETAIL 03-31-16 REVISED MULCH LAYER THICKNESS AND PLANTING NOTES

LANDSCAPE PLANTING DETAILS

STANDARD D7-02

Paul Koracs DATE 2-7-2012 STEEP SLOPE PLANTING DETAIL





RAISED PAVEMENT LANE MARKER DETAILS

NOTES:

- 1. FOR COLLECTOR-DISTRIBUTOR (C-D) ROADWAYS, PLACE ONE-WAY CRYSTAL MARKER, 2 EACH AT 100' CENTERS. USE DETAIL A.
- 2. FOR MULTI LANE DIRECTIONAL RAMPS, PLACE ONE-WAY CRYSTAL MARKER, 1 EACH AT 50' CENTERS. USE DETAIL B.
- 3. FOR AUXILIARY LANES, PLACE ONE-WAY CRYSTAL MARKER, 1 EACH AT 48' CENTERS. USE DETAIL C.

		Illinois Tollway
TE	REVISIONS	
	REVISED DETAIL C.	RAISED PAVEMENT
-2016	REVISED NOTES 1.	LANE MARKER
		STANDARD D8-02

Paul Kovacs

APPROVED CHIEF ENGINEER DATE 7-1-2009