COMPACTED CLAY TRENCH SEAL POROUS GRANULAR BACK FILL 4" PIPE UNDERDRAIN (SEC. 601 STD. SPEC.)

FILTER FABRIC-3.5 oz./SQ. YD. (MIN)

GRANULAR BEDDING SEE STD. SPEC.



BACKSLOPE DRAIN

CLASS SI CONCRETE SHA	ALL BE USED THROUGHOUT.		
OF WATER AS SHOWN ON	THE PLANS.	THE REMOVAL	Ĩ
THE SLOTTED DRAIN SHA INTEGRAL SLOTTED DRAI	ALL BE CORRUGATED PIPE CULV NS.	ERT WITH	
BEFORE PLACING THE CO SHALL BE COVERED BY E BY A BOARD NOTCHED T COVERING MUST FIT CLO OF CONCRETE INTO THE DRAIN WILL THEN BE ON PROTECTED DRAIN. THE SHALL THEN BE REMOVED OF THE INLET. THE OP SHALL BE COVERED TO F	ONCRETE ADJACENT TO THE PIPE EITHER THIN, FLAT METAL SHEE O FIT OVER THE GRATE BARS. OSELY IN THE SLOT TO PREVEN PIPE. PAVING OVER THE SLOT E CONTINUOUS OPERATION OVER PROTECTION FOR THE DRAIN S D. THE PIPE SHALL DRAIN INT ENING WHERE THE SLOT IS REM PREVENT CONCRETE FROM ENTER	E, THE SLOT TING OR THIS T ENTRY TED R THE SLOT O THE SIDE OVED RING THE PIPE.	DETAIL V
THE CORRUGATED STEEL MEET THE REQUIREMENTS	PIPE USED IN THE SLOTTED D S OF AASHTO M36/ ASTM A7860	RAIN SHALL D.	
THE CMP SHALL BE ALU	MINIZED STEEL TYPE 2.		
THE DIAMETER AND GAGE	E SHALL BE AS SHOWN ON THE	PLAN.	
STEEL GRATING SHALL N	MEET THE GALVANIZING REQUIRE	MENTS OF	
AASHTO M111. THIS WORK WILL BE PAI PER FOOT FOR SLOTTED INCLUDE ELBOWS, DRILLI PLACING A1 BARS, AND (SPECIFIED ON PLANS.	D FOR AT THE CONTRACT UNIT DRAIN 15" WITH 1¾" SLOT, 7 ING HOLES IN GRATING, SUPPLY CONCRETE AND GRATING FOR DE	PRICE 7 AND SHALL ING AND PTH	<u>PLATE EXTENDERS</u> GA. GALV. PLATE PER ASTM A761 SLOPE AS REQ.
USE APPROVED END CAP PIPE DURING GUTTER CC	TO PREVENT CONCRETE ENTRY INSTRUCTION ON THE UPSTREAM	INTO THE END OF THE PIPE.	
CONNECTIONS THE CORRUGATED STEEL REROLLED ANNULAR ENDS	PIPE SHALL HAVE A MINIMUM S.	OF TWO	
THE SLOTTED DRAIN BAN TO SECURE THE PIPE AN	NDS SHALL BE MODIFIED HUGGEF ND PREVENT INFILTRATION OF T	R BANDS The Backfill.	
WHEN THE SLOTTED DRA GRATES SHALL HAVE A M	IN IS BANDED TOGETHER, THE A Maximum 3'' gap.	ADJACENT	
GRATES			
STEEL. THE SPACERS A $\frac{3}{6}$ " MATERIAL ±0.008".	ND BEARING BARS (SIDES) SHAL	U, GRADE 56 IL BE	GAGE DIAN OF
THE SPACERS SHALL BE TO EACH BEARING BAR (WELDS ON EACH SIDE OF	ON 6" CENTERS AND WELDED O SIDES) WITH FOUR (4) 1 ¹ /4" LON F THE BEARING BAR.	DN BOTH SIDES IG ⅔6″ FILLET	PIPE 12'' 15 16 X X 14 X X 12 N.A. N.
THE PLATE EXTENDER SH	HALL BE 7 GAGE STEEL MEETIN	G ASTM A761.	
THE ENGINEER MAY CALL IF THE GRATE IS NOT I IF TENSILE STRENGTH T	FOR TENSILE STRENGTH TEST N COMPLIANCE WITH THE ABOVE ESTS ARE CALLED FOR, MINIMU	S ON THE GRATE SPACER SPECIFICATION M RESULTS FOR	s. <u>Slotted</u> 1. gratin
AN IN-PLACE SPACER PL T = 12,000 POUNDS FOR T = 15,000 POUNDS FOR	ILLED PERPENDICULAR TO THE E 2 ¹ /2'' GRATE 6'' GRATE	BEARING BAR SHALL BE:	2. VERTIC IS ALS
GALVANIZING			3. FOR 6'
THE GRATE AND PLATE E WITH ASTM A123 EXCEPT	EXTENDERS SHALL BE GALVANIZ WITH A 2 OZ. GALVANIZED CC	ED IN ACCORDANCE DATING.	DRAIN
GRATE ATTACHED TO C	<u>SP</u>		4. DIMENS
THE GRATE SHALL BE FI TO THE CSP ON EACH S	ILLET WELDED WITH A MINIMUM IDE OF THE GRATE AT EVERY C	WELD 1" LONG THER CORRUGATION.	5. REFERE
TOLERANCES - FINISHE	D SLOTTED DRAIN - 20' LE	ENGTH	6. REFERE
VERTICAL BOW = ±%" HORIZONTAL BOW = ±5%"	,		7. DIMENS
WIST = ±"/2"			8. H1 AND
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STATE OF ILLINOIS			SL01	TED DRA
DEPARTMENT OF TRANSPORTATION				
	SCALE:	SHEET NO.	OF	SHEETS



DATE

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PLOT DATE = \$DATE\$

REVISED

		DETAIL	LOTTED	F.A. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.			
 STATE OF ILLINUIS		12" WITH 6" SLOT								
 DEPARTMENT OF TRANSPORTATION									CONTRACT	NO
	SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST.	NO. ILLINOIS FED. A	ID PROJECT	









25[|]/2′′

SPECIAL FRAME AND GRATE





23''

20[|]/2′′

GENERAL NOTES:

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

THE CONTRACT UNIT PRICE PER FOOT FOR SLOTTED DRAIN 12" WITH 6" SLOT SHALL INCLUDE THE GRATE, CLASS SI CONCRETE, SDR-35 PVC 12" SEWER PIPE, BLOCKS, WIRE AND EXCAVATION.

THE INLET TYPE A TO BE IN ACCORDANCE WITH STANDARD 602301.

THE CONTRACT UNIT PRICE EACH FOR INLETS, TYPE A, WITH SPECIAL FRAME, OPEN LID SHALL INCLUDE A TYPE A INLET AND THE SPECIAL FRAME AND GRATE DETAILED ABOVE.



DRAINS WILL BE REQUIRED AT ALL INLETS IN "SAG" AREAS AND AS INDICATED IN THE PLANS.

THIS WORK SHALL BE COMPLETED ACCORDING TO SECTION 601 OF THE STANDARD SPECIFICATIONS.

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR PIPE UNDERDRAINS OF THE DIAMETER SPECIFIED WHICH PRICE SHALL INCLUDE THE CA7 OR CA16 AND THE CONNECTION TO THE INLET.

DRAIN FOR AGGREGATE BASES IN URBAN AREAS





AGGREGATE SLOPEWALL DRAIN



CA6 or CA10

NOTES:

THE ROCK OUTLETS SHALL BE CONSTRUCTED USING CA7 AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQ. YD. FOR DRAIN FOR AGGREGATE BASE COURSE.

THE THICKNESS SHALL BE THE SAME AS THE ADJACENT SUB-BASE MATERIAL AS NOTED ON THE PLANS AND SHALL INCLUDE THE COST OF THE FILTER FABRIC.

THE ROCK OUTLETS WILL BE MEASURED IN SQ. YD., THE WIDTH BEING 3' BY THE LENGTH SHOWN ABOVE

THE COST OF THE CA6 OR CA10 UNDER THE SHOULDER SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER SQ. YD. FOR SUB-BASE GRANULAR MATERIAL, TYPE A OF THE THICKNESS SPECIFIED.

THE FILTER FABRIC TO BE USED SHALL CONFORM TO THE FILTER FABRIC USED FOR RIPRAP.

PROPOSED BITUMINOUS SHOULDER 12'' PROPOSED AGGREGATE OR EARTH SHOULDER Pay Length A 12'' & Var. 7. J Slope **→** A



SECTION A-A

NOTE: SLOPE SAME AS SHOULDER WITH 2% MIN.

DRAIN FOR AGGREGATE BASE COURSE



ROCK OUTLET AT ALL LOW POINTS TO BE 36" WIDE AND EXTEND TO FORESLOPE

> FILTER FABRIC ON ALL SIDES EXCEPT THE FORESLOPE

ALTERNATE MATERIALS FOR WALLS	
PRECAST REINFORCED CONCRETE RISERS	3′′
CONCRETE MASONRY UNITS	5′′
CAST-IN-PLACE CONCRETE	6′′
BUILDING BRICK, GRADE SW, FROM CLAY OR SHALE	8′′



PLAN



NOTE:

- 1. THE CONTRACT UNIT PRICE FOR INLETS TYPE A (SPECIAL) SHALL NOT INCLUDE THE FRAME AND LID OR GRATE.
- 2. FURNISHING AND INSTALLING SAND CUSHION IS TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TYPE A (SPECIAL) INLETS.
- 3. THE TYPE A (SPECIAL) INLET SHOULD NOT BE USED AS A RECEIVER OF STORM WATER FROM ANOTHER INLET.

FOR INLET TYPE A (SPECIAL)

(TO BE USED AT PAVED SECTION WITH CURB & GUTTER) NO SCALE





INLET ADJUST

602-2

MANHOLE TYPE A 8' DIAMETER 2 - 24'' **OPENINGS** 3 NO. 5 BARS -5' LONG @ 12'' CTS. BOTTOM WELDED WIRE FABRIC TYPICAL O PLACED AT TOP & BOTTOM NO. 8 BARS 4' LONG TOP & BOTTOM NO. 8 BARS 4' LONG TOP & BOTTOM В В DIA <u>2''</u> Typ. d'X L ò.

SECTION B-B





PLAN

DIAMETER	REINFORCEMENT	REINFORCEMENT	NO	. 4
OF OPENING	BAR SIZE	MAS' WWF	BAH	<u> </u>
		EACH DIRECTION	LENGTH	RADIUS
	BOTTOM MAT NO. 8	BOTTOM MAT *** 1.57 SQ. IN./FT.		
24''	TOP MAT NO. 4	TOP MAT *** 0.22 SQ. IN./FT.	8′-6′′	4'-0''

*** A MAXIMUM OF TWO LAYERS OF WELDED WIRE FABRIC MAY BE USED TO SATISFY THE REQUIRED "AS" FOR EACH MAT

SEE STD/602416 FOR SINGLE OPENING REINFORCEMENT



SEC. A–A



PLAN OF GRATE * *

* * THIS GRATE TO BE USED WITHOUT CURB BOX WHEN INLET IS IN DRIVEWAY.



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SEC. B–B

DETAIL OF FRAME & GRATE



SECTION B-B



PLAN OF FRAME

NOTES

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH ARTICLES 504.01 THROUGH 504.05 OF THE STANDARD SPECIFICATIONS EXECPT THAT CONCRETE STRENGTH SHALL BE 4,000 PSI AFTER 28 DAYS.

THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX. FURNISHING AND INSTALLING THE FRAME AND GRATE. THE CAST IRON STEPS, THE PRECAST FLOOR SLAB, SAND CUSHION AND REINFORCEMENT BARS.

							F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	INLET SPECIAL										
DEPARTMENT OF TRANSPORTATION						_ CONTRACT NO.					
	SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. ILLINOIS FED. A	ID PROJECT		

NOTES

SEE STANDARD 602701 FOR DETAILS OF STEPS. STEPS SHALL BE OMITTED WHEN "H" IS LESS THAN 5"

EXCEPT AS NOTED HEREIN INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.

ALL VOIDS AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.

WEIGHT OF CAST IRON FRAME & GRATE = ±530 LBS.



SEC. A–A





NOTES

SEE STANDARD 602701 FOR DETAILS OF STEPS. STEPS SHALL BE OMITTED WHEN "H" IS LESS THAN 5"

EXCEPT AS NOTED HEREIN INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.

ALL VOIDS AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.

WEIGHT OF CAST IRON FRAME & GRATE = 440 LBS.

DETAIL OF FRAME & GRATE



SECTION E-E

STEEL GRATE SHALL BE GIVEN ONE SHOP COAT OF BLACK BITUMINOUS PAINT.



SECTION C-C

(1) = $6^{1}/_{4}$ " MAX. (TYP.)

(2) = $\frac{3}{4}$ " MIN. (TYP.)

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c:\pw_work\PWIDOT\CORCORANLM\dms41560\6	00699.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	STATE OF ILLINOIS INLET SPECIAL (TYPE A GUTTER)				
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FRAME AND GRATES TYPE 9



NOTES

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH ARTICLES 504.01 THROUGH 504.05 OF THE STANDARD SPECIFICATIONS EXECPT THAT CONCRETE STRENGTH SHALL BE 4,000 PSI AFTER 28 DAYS.

THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX. FURNISHING AND INSTALLING THE FRAME AND GRATE. THE CAST IRON STEPS, THE PRECAST FLOOR SLAB, SAND CUSHION AND REINFORCEMENT BARS.



SECTION A-A

GENERAL NOTES

THE MATERIAL FOR STEEL GRATE SHALL CONFORM TO ARTICLE 1006.04 OF THE STANDARD SPECIFICATIONS.

THE USE OF EITHER A CAST GRATE OR A STEEL GRATE WITH THE CAST FRAME SHALL BE THE OPTION OF THE CONTRACTOR.

THE CAST GRATE MAY BE MADE OF EITHER GRAY IRON OR DUCTILE IRON CONFORMING TO THE STANDARD SPECIFICATIONS. DUCTULE IRON CASTING SHALL BE GRADE 65-45-12.





SECTION B-B

NOTES:

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

THE MANHOLE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR MANHOLES, SPECIAL, WHICH PRICE SHALL INCLUDE THE CAST IRON FRAME WITH CLOSED LID, THE STEPS AND THE REINFORCEMENT BARS.

CONSTRUCT NUMBER OF PIPE CONNECTIONS AS DIRECTED BY THE ENGINEET.

STEPS AT 12" TO 16" CENTERS SEE STANDARD 602701 FOR DETAILS OF STEPS.



SECTION THRU FRAME & LID

WEIGHT OF FRAME & LID, 300 LBS.

MANHOLES, SPECIAL



PLAN VIEW



NOTES:

THIS WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS, STANDARD 542546 AND THIS DETAIL.

THE PROPOSED TOP SHALL BE CAST-IN-PLACE OR PRECAST.

THE CONCRETE SHALL BE REMOVED ACCORDING TO ARTICLE 501.05 OF THE STANDARD SPECIFICATIONS.

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR INLETS TO BE RECONSTRUCTED WITH NEW STANDARD 542546 FRAME AND GRATE WHICH PRICE SHALL INCLUDE THE REMOVAL AND DISPOSAL OF THE EXISTING FRAME AND GRATE & CONCRETE, FURNISHING & INSTALLING EXPANSION TIE ANCHORS, CLASS SI CONCRETE, AND FURNISHING & INSTALLING FRAME & GRATE.

FLUSH INLET BOX TO BE RECONSTRUCTED

WITH NEW STANDARD 542546 FRAME AND GRATE

DESIGNER NOTE: CHECK THE DIMENSIONS

ON THIS DETAIL, CHANGE TO FIT YOUR CONDITIONS.



TOP SLAB REINFORCEMENT TO BE EPOXY COATED BARS.

* THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICKS OR CLASS SI CONCRETE.

THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 6" SHORT TO ALLOW FOR FIELD ADJUSTMENTS.

- * * 4'-0'' TO 8'-0'' NO. 5 REINFORCEMENT BARS AT 12" CENTERS E.W. 8'-0" TO 13'-0" - NO. 5 REINFORCEMENT BARS AT 10" CENTERS E.W. 13'-0" TO 15'-0" NO. 5 REINFORCEMENT BARS AT 8" CENTERS E.W.
- * * * 7 SPAN AT 8" INLET SPECIAL 3 & 4 5 SPAN AT $7\frac{5}{8}$ " INLET SPECIAL 5 & 6
- * * * * 2 REBARS FOR INLET SPECIAL 3 &4 4 REBARS FOR INLET SPECIAL 5 & 6





TYPE "A"

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TOP VIEW



TOTAL WEIGHT 160 LBS

LIGHT WEIGHT MANHOLE CASTING

INLET SPECIAL NO. 3, 4, 5,6

TYPE "B"

NOSE TYPE FOR INLET TOP SLAB

							F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	INLET SPECIAL NO. 3, 4, 5, 6										
DEPARTMENT OF TRANSPORTATION							_		CONTRACT	NO.	
	SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST.	NO. ILLINOIS FED. A	ID PROJECT		

NOTES:

SEE STANDARD 602701 FOR DETAILS OF STEPS.

STEPS AT 12" TO 16" CENTERS.

STEPS SHALL BE OMITTED WHEN DEPTH OF INLET IS LESS THAN 5'

1" PREFORMED EXPANSION JOINTS AS SHOWN SHALL BE PROVIDED ON EACH SIDE OF INLET.

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTAL SECTIONS.

THE INLET SHALL BE CAST-IN-PLACE OR PRECAST.

EXCEPT AS NOTED HEREIN INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL SHALL INCLUDE THE COST OF FURNISHING AND INSTALLING THE FRAME, LID, REINFORCEMENT BARS, FLOOR AND TOP SLABS, CAST IRON STEPS (IF USED).

THE CURB AND GUTTER WILL BE PAID FOR SEPARATELY AND WILL BE MEASURED THROUGH THE INLET.

THE CURB AND GUTTER ADJACENT TO AND 6' ON EITHER SIDE OF THE INLET SHALL BE CONSTRUCTED AS SHOWN WITH NO ADDITIONAL COMPENSATION FOR THE TRANSITION.





* CURB ADJUSTABLE $11^{1}/_{4}^{\prime\prime}$ to $13^{1}/_{4}^{\prime\prime}$





FRAME AND GRATE SPECIAL





PLAN OF FRAME

TRANSVERSE SECTION

WITHOUT GRATE AND CURB BOX





PLAN OF GRATE

LONGITUDINAL SECTION

17/8''

R 3067 APPROXIMATE WEIGHT - 530 LBS.

SECTION A-A

604–2

FRAME AND GRATE FOR INLET SPECIAL



FRAME AND GRATE FOR INLET SPECIAL

17/8,''













PLAN OF GRATE



FRAME AND GRATE FOR INLET SPECIAL

APPROXIMATE WEIGHT OF CAST IRON FRAME & FRATE - 530 LBS.

* THIS GRATE TO BE USED WIATHOUT CURB BOX WHEN INLET IS IN DRIVEWAY.

PLAN OF FRAME



LONGITUDINAL SECTION

















PLAN OF FRAME

WITHOUT GRATE AND CURB BOX



LONGITUDINAL SECTION



PLAN OF GRATE

FRAME AND GRATE FOR INLET SPECIAL





TOTAL WEIGHT: 160 LBS

NOTE:

THE CLOSED LID MAY BE MADE OF EITHER GRAY IRON OR DUCTILE IRON. CONFORMING TO THE STANDARD SPECIFICATIONS.

DUCTILE IRON CASTING SHALL BE GRADE 60-40-18 AND SHALL BE PROOF LOADED IN ACCORDANCE WITH FEDERAL SPECIFICATIONS RR-F-621b, SECTION 3.8.

THE PROOF LOAD SHALL BE 25,000 LBS ON A 9 $^{\prime\prime}$ x 9 $^{\prime\prime}$ CAST BLOCK.

SPECIAL FRAME CLOSED LID







SECTION A-A

PLAN VIEW OF CAST IRON GRATE

NOTES

THE CONTRACTOR SHALL FIELD CHECK THE SIZE OF THE EXISTING GRATE BEFORE ORDERING THE NEW GRATE TO INSURE THE CORRECT SIZE.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR GRATE SPECIAL.

THE EXISTING GRATES ARE TO BE SALVAGED AND TO BECOME THE PROPERTY OF THE ٥

 $1\frac{3}{8}$ " diagonal bars with $1\frac{1}{4}$ " openings

GRATE SPECIAL

604–7

FLOW DIRECTION \leftarrow

DESIGNER NOTES:

- 1. INCLUDE STD. 606001 AND 606301.
- 2. ALL CURB SHALL BE "M" TYPE MOUNTABLE CURB. SPECIFY GUTTER WIDTHS.



GENERAL NOTES:

- 1. THE CURB AND GUTTER CONFIGURATION Shall be M-____
- 2. SEE STD. 606001 & AND 606301 FOR ADDITIONAL DETAILS.
- 3. ALL MATERIALS, LABOR, AND



GUTTER

ISLAND SIGN POST SPACING DETAIL

NOTE: THE ENGINEER SHALL DETERMINE THE NUMBER OF OPENINGS REQUIRED.

REINFORCEMENT DETAIL

REINFORCEMENT SHALL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR GUTTER.

CONTINUOUSLY REINFORCED WITH 2 - #4 BARS EVENLY SPACED

FOR **TYPE V GUTTER**

★ VARIES - SEE STANDARD 606001

REINFORCEMENT SHALL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR CC&G.

REINFORCEMENT DETAIL

FOR COMBINATION CONCRETE

CURB AND GUTTER

CONTINUOUSLY REINFORCED WITH 2 - #4 BARS Evenly spaced

REINFORCEMENT SHALL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR CC&G.

REINFORCEMENT DETAIL FOR

COMBINATION CONCRETE

CURB AND GUTTER

TYPE B-6.18

CONTINUOUSLY REINFORCED WITH 2 - #4 BARS EVENLY SPACED

REINFORCEMENT SHALL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR CC&G.

COMBINATION CONCRETE CURB AND GUTTER

TYPE M-4.06

CONTINUOUSLY REINFORCED WITH 3 - #4 BARS EVENLY SPACED

REINFORCEMENT SHALL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR CC&G.

REINFORCEMENT DETAIL

COMBINATION CONCRETE

CURB AND GUTTER

TYPE B-6.24

SECTION D-D

NOTE:

CLASS SI CONCRETE SHALL BE USED THROUGHOUT. CURB AND GUTTER OUTLET SHALL BE TIED TO PAVEMENT SLAB WITH 2 TIE BARS, 30" LONG -30" CENTERS. OUTLET SHALL BE TIED TO CURB AND GUTTER AT CONTRACTION JOINTS AS SHOWN. GUTTER OUTLET AND PAVED DITCH SHALL BE REINFORCED WITH WIRE MESH HAVING A WEIGHT OF AT LEAST 58 LBS/SQ. FT. COST TO BE INCLUDED IN THE UNIT PRICE PER CU. YD. FOR CLASS SI CONCRETE (OUTLET).

CURB & GUTTER OUTLET, SPECIAL

CONCRETE CURB AND GUTTER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, STANDARD 606001 AND THIS DRAWING.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT. A HOLE $1^{1}/_{2}$ " in dia. And 9" deep shall be drilled in THE EXISTING CONCRETE CURB AS SHOWN. A $1^{1}/_{4}$ '' × 18'' SMOOTH DOWEL BAR SHALL BE GROUTED IN THE HOLE LONGITUDINALLY.

JOINTS OF A TYPE SIMILAR TO THAT IN THE UNDERLYING PAVEMENT (EXPANSION OR CONTRACTION) SHALL BE INSTALLED IN THE CONCRETE CURB IN ALIGNMENT WITH THE JOINTS IN THE PAVEMENT.

INLETS ARE NOT TO BE INCLUDED IN THE MEASUREMENT FOR CURB AND GUTTER REPLACEMENT.

THE PROPOSED CONFIGURATION OF THE CURB AND GUTTER SHALL MATCH THAT REMOVED.

THE CONCRETE REQUIRED BETWEEN THE EDGE OF PAVEMENT AND FRAME AND GRATE SHALL BE CONSIDERED INCIDENTAL TO THE CURB AND GUTTER.

THE LOCATION OF THE DOWEL BAR SHALL BE DETERMINED BY THE ENGINEER.

THE COST OF ALL MATERIALS AND LABOR REQUIRED TO INSTALL THE JOINTS AND BARS IN THE CURBS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR COMBINATION CURB AND GUTTER.

ALL EXISTING TIE BARS IN EDGE OF PAVEMENT SLAB THRU REPLACEMENT AREA SHALL BE CUT OFF.

DETAILS FOR CURB & GUTTER REPLACEMENT AT INLET

CONCRETE CURB AND GUTTER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 606 OF THE STANDARD SPECIFICATIONS, SUPPLIMENTAL SPECIFICATIONS, STANDARD 606001 AND THIS DRAWING.

SAWED JOINT ----OR TO A JOINT (FULL DEPTH) CLASS SI CONCRETE SHALL BE USED THROUGHOUT. A HOLE $1^{1}/_{2}$ '' IN DIA. AND 9'' DEEP SHALL BE DRILLED IN THE EXISTING CONCRETE CURB AS SHOWN. EXISTING AND GUTTER A 11/4''×18'' SMOOTH DOWEL BAR SHALL BE GROUTED IN THE HOLE LONGITUDINALLY. JOINTS OF A TYPE SIMILAR TO THAT IN THE UNDERLYING PAVEMENT (EXPANSION OR CONTRACTION) SHALL BE INSTALLED IN THE CONCRETE CURB IN ALIGNMENT WITH THE JOINTS IN THE PAVEMENT. THE PROPOSED CONFIGURATION OF THE CURB AND GUTTER SHALL MATCH THE REMOVED. 1" PREFORMED EXPANSION JOINT THE LOCATION OF THE DOWEL BAR SHALL BE DETERMINED FILLER. IF EXISTING EXPANSION JOINT BY THE ENGINEER. IS WITHIN 5' THE JOINT FILLER SHALL BE ELIMINATED.

ALL EXISTING TIE BARS IN EDGE OF PAVEMENT SLAB THRU REPLACEMENT AREA SHALL BE CUT OFF.

THE WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS AND INCLUDES THE REMOVAL AND REPLACEMENT OF SOD, CONCRETE PAVEMENT AND/OR CURB AND GUTTER ADJACENT TO CATCH BASINS OR INLETS TO BE ADJUSTED OR RECONSTRUCTED AND SHALL BE INCLUDED IN THE PAY ITEM OF CATCH BASINS OR INLETS TO BE ADJUSTED OR RECONSTRUCTED AS SPECIFIED.

DETAILS FOR CURB & GUTTER REPLACEMENT CATCH BASIN OR INLETS TO BE 606–10 **ADJUSTED OR RECONSTRUCTED**

WHEN "A" IS GREATER THAN 2'', 2-#4 BARS SHALL BE PLACED AS SHOWN.

REMOVE AND REPLACE SOD

NOTES:

WELDED WIRE FABRIC SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AND INCLUDED IN THE UNIT PRICE FOR PAVED DITCH, SPECIAL.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

THIS ITEM OF WORK SHALL BE PAID FOR IN ACCORDANCE WITH ARTICLE 606.14 OF THE STANDARD SPECIFICATIONS. AT THE CONTRACT UNIT PRICE PER FOOT FOR PAVED DITCH, SPECIAL.

** THE GEOTECHNICAL FABRIC IS INCIDENTAL TO THE PAVED DITCH.

PAVED DITCH, SPECIAL

SC 25, 2¹/₂''×2¹/₂''

- EACH 3/8"×3" GALVANIZED STEEL BOLTS AND WASHERS
- EACH 3/8''×2'' GALVANIZED STEEL U-BOLTS
- EACH GALVANIZED CABLE CLAMPS
- LBS GALVANIZED FENCE STAPLES

DETIAL 'A'

EXPLODED VIEW OF FLOOD GATE TO CABLE

DETAIL OF FLOOD GATE

DETAIL OF PRECAST CONCRETE DEADMAN

QUANTITIES FOR 2 DEADMEN 0.3 CU. YD. CLASS SI CONCRETE 36 LBS. REINFORCEMENT BARS

QUANTITIES FOR 2 DEADMEN 0.7 CU. YD. CLASS SI CONCRETE

DETAIL OF CAST-IN-PLACE CONCRETE DEADMAN

NOTE:

PRECAST CONCRETE DEADMEN AND CAST-IN-PLACE CONCRETE DEADMEN SHALL BE CONSTRUCTED OF CLASS SI CONCRETE

BILL OF MATERIALS

ITEM QUANTITY UNIT

240 FΤ ¾″ DIA. GALVANIZED WIRE ROPE

 $\frac{3}{4}$ " DIA. × 15" GALVANIZED EYE BOLTS EACH 4 WITH NUTS AND WASHERS

³∕₄" DIA. GALVANIZED TURNBUCKLES EACH 2

- 20 $\frac{3}{4}$ " dia. Galvanized cable clamps EACH
- 5" x 5" x $\frac{3}{4}$ " Steel Washer Plates 4 EACH
- PRECAST CONCRETE DEADMAN OR 2 EACH CAST-IN-PLACE CONCRETE DEADMAN
- 12" CREOSOTED TIMBER PILE 98 FΤ (INCLUDES FURNISHING AND DRIVING TIMBER PILES)

DETAIL OF FLOOD GATE SUPPORT

FRONT ELEVATION

IT IS INTENTED THAT THE AUTOMATIC FLAP GATES SHALL BE A COMMERCIAL PRODUCT PRODUCED BY A RELIABLE MANUFACTURER. THE GATE MAY BE MADE OF CAST IRON, CAST STEEL OR OTHER SUITABLE MATERIALS. THE DESIGN MAY DIFFER FROM THE DRAWING IF IT WILL WORK IN A SATISFACTORY, TROUBLE FREE MANNER AND WILL WITHSTAND THE WATER PRESSURE AT THE INSTALLATION LOCATION. THE GATE SHALL BE APPROVED BY THE ENGINEER.

THE SIZE OF AUTO PIPE OR OPENING.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR FLAP GATES OF THE SIZE SPECIFIED AND SHALL INCLUDE ALL MATERIALS AND COMPLETE INSTALLATION.

DIAM	А	В	С	D	E	F	G	Н	J	Т
8''	10 3⁄4''	1 3/8''	5 ^{II} / _{I6} ''	10''	1/2''	1 1/8''	3 %16 ′′	1 1/4''	3/ //	3/8''
10''	12 ³ ⁄4′′	1 3/8''	7 1/8''	12 /4''	1/2''	1 1/8''	4 ³ / ₈ ''	1 1/2''	1/2''	7/16 ''
12''	14 ³ ⁄4′′	1 3/8''	8 1/2''	14 /2''	1/2''	1 1/8''	5 1/8''	1 1/2''	1/2''	1/2''
14''	17 /4''	1 3/8''	9 7/8''	16 ³ ⁄4′′	1/2''	1 1/4''	5 ¹⁵ /16 ′′	1 1/2''	1/2''	9/16 ''
15''	17 3⁄4′′	1 3/8''	10 5⁄8''	17 ³ ⁄4′′	1/2''	1 1/4''	6 /4''	1 1/2''	1/2''	9/16 ''
16''	19 /4′′	1 3/8''	11 1/4''	18 ³ ⁄4′′	1/2''	1 1/4''	6 ⁵ ⁄8′′	1 1/2''	1/2''	9/16 ''
18''	22 / ₄ ''	2''	12 ⁵ ⁄8′′	21''	3/4''	1 %6''	7 1/16 ''	1 3⁄4''	9/16 ''	9/16 ''
20''	24 ³ /4''	2''	14 / ₈ ''	23 ³ ⁄4′′	3/4''	1 3/8''	8 /4''	1 3⁄4''	5⁄8′′	5/8''
21''	25 / ₄ ′′	2''	14 7⁄8''	24 / ₄ ''	3/4''	1 3/8''	8 %16''	1 3⁄4''	5⁄8′′	5/8''
24''	28 / ₄ ''	2''	17''	27 /2''	3/4''	1 1/2''	9 3⁄4′′	1 3⁄4''	5⁄8′′	5⁄8''
30''	35 /4′′	2 1/2''	20 / ₂ ''	34′′	1''	1 %16''	12''	2''	1 1/16 1	5/8''
36′′	41 / ₂ ''	2 1/2''	25′′	40 7⁄8''	1''	2 1/16 ''	14 7⁄16''	2 1/4''	1 1/8''	¹¹ /16 ′′
42''	47 /2''	2 1/2''	29 ³ ⁄4′′	47''	1''	2 5/16 ′′	16 ⁵ ⁄8′′	2 1/4''	1 1/8''	3/4''
48′′	53 /2''	2 1/2''	34′′	54′′	1''	2 3⁄4''	19 1/ ₁₆ ′′	2 1/4''	1 3/8''	3/4''
54''	60 ³ ⁄4''	2 1/2''	38′′	62 /4''	1 1/4''	2 3/4''	22′′	3''	1 1/2''	7/8''
60''	67′′	2 1/2''	42''	68 /2''	1 1/4''	2 3⁄4''	24 / ₄ ''	3''	1 1/2''	15/16 //
66''	73 ³ /8''	2 1/2''	47''	75′′	1 1/4''	2 7/8''	26 1/2''	3''	1 1/2''	1''
72''	79''	2 1/2''	51′′	82''	1 1/4''	3''	29''	3''	1 1/2''	1''
78''	86′′	2 1/2''	55 1/4''	88 3⁄4′′	1 1/4''	3 1/2''	31 3⁄8''	3''	1 5/8''	1 1/8''
84''	92 1/2''	3 1/2''	59 /2''	95 / ₂ ''	1 1/2''	3 1/2''	33 3⁄4′′	3''	1 3⁄4''	1 1/4''

FILE NAME =	USER NAME = corcoranlm	DESIGNED -	REVISED -				F.A. SE	CTION COUNTY	TOTAL SHEET SHEETS NO.
c:\pw_work\PWIDOT\CORCORANLM\dms41	560\600699.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	AUTOMATIC FLAP GATES				
	PLOT SCALE = 47.727 ' / IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				i NO.	
	PLOT DATE = Jul 28,2009 - 09:37:25 AM	DATE -	REVISED -		SCALE: SHEET NO. OF SHEETS STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	

SECTION SHOWING METHOD OF APPLICATION TO CORRUGATED METAL PIPE

THE SIZE OF AUTOMATIC FLAP GATES SHALL REFER TO THE DIAMETER OF THE OUTLET

TABLE OF DIMENSIONS

NOTES 1. ANY STORM SEWER SPECIAL OR BACKSLOPE

PROP DT. 2' BOTTOM

-4" MIN.

В

- - - <u>- - - - - - - - -</u>

DETAIL A

2. CONCRETE FOR SLAB, HEADWALL AND PAVED

DITCH SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD

FOR "MISCELLANEOUS CONCRETE."

— STORM SEWER, PROTECTED

DETAIL C

NO SCALE

OUTLET

36" OR 24" I.D.

NON-REINF. CONC. PIPE FULL BELL AND SPIGOT

-SAND CUSHION

ALTERNATE MATERIALS FOR WALLS	Т
PRECAST REINFORCED CONCRETE RISERS	4''
CONCRETE MASONRY UNIT	5''
MONOLITHIC CONCRETE	6''
BUILDING BRICK, GRADE SW FROM CLAY OR SHALE	8''
CONCRETE BUILDING BRICK, GRADE A	8''

NOTES

- 1. THE CONTRACT UNIT PRICE FOR FIELD TILE JUNCTION VAULT SHALL INCLUDE THE COST OF FURNISHING AND PLACING THE FRAME AND GRATE OR PRECAST CONCRETE LID AND WHEN REQUIRED, THE SAND CUSHION.
- 2. ALL FIELD TILE JUNCTION VAULTS SHALL BE 2'-O'' IN DIAMETER UNLESS OTHERWISE NOTED ON THE PLANS.

1 NO. 4 BAR LIFT LOOP

± 145#

SECTION A-A

		F.A. RTE.	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
 r						CONTRACT	NO.	
STA.	TO STA.	FED. F	ROAD DIST. NO.	ILLINOIS F	ED. AID) PROJECT		

DETAIL A NO SCALE

* IF A 4" COVER CAN NOT BE PROVIDED A PAVED DITCH SHALL BE CONSTRUCTED AS SHOWN IN DETAIL C. NOTES

- 1. WIDTH OF CONCRETE SLAB SHALL BE THE SAME AS THE TRENCH WIDTH IN ACCORDANCE WITH SECTION 550 OF THE STD. SPECIFICATIONS, OR 3' MIN.
- 2. CONCRETE FOR SLAB, HEADWALL AND PAVED DITCH SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR "MISCELLANEOUS CONCRETE."
- 3. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ. FT.

SECTION B-B

NOTES

- 1. ANY STORM SEWER OR FIELD TILE OUTLET INTO A DITCH SHALL HAVE A HEADWALL BUILT IN ACCORDANCE WITH THIS DETAIL.
- 2. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ. FT.

END VIEW

FIELD TILE JUNCTION

ALTERNATE MATERIALS FOR WALLS			
PRECAST REINFORCED CONCRETE RISERS			
CONCRETE MASONRY UNIT			
MONOLITHIC CONCRETE	6''		
BUILDING BRICK, GRADE SW FROM CLAY OR SHALE	8′′		
CONCRETE BUILDING BRICK, GRADE A	8''		

TO STA.

VAULT			61 1	 _2	
	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			CONTRACT	NO.	

NOTES

- 1. THE CONTRACT UNIT PRICE FOR FIELD TILE JUNCTION VAULT SHALL INCLUDE THE COST OF FURNISHING AND PLACING THE FRAME AND GRATE OR PRECAST CONCRETE LID AND WHEN REQUIRED, THE SAND CUSHION.
- 2. ALL FIELD TILE JUNCTION VAULTS SHALL BE 2'-O'' IN DIAMETER UNLESS OTHERWISE NOTED ON THE PLANS.

± 145#

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

SEE NOTE

SECTION A-A

NOT LESS THAN 58# PER 100 SQ. FT.

END VIEW

NOTES

1. ANY FIELD TILE OUTLET INTO A DITCH SHALL HAVE A HEADWALL BUILT IN ACCORDANCE WITH THIS DETAIL.

2. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH

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	PLOT SCALE = 47.727 '/ IN.	CHECKED -	REVISED -
	PLOT DATE = Jul 28,2009 - 09:48:14 AM	DATE -	REVISED -

GENERAL NOTES

- 1. THE 10:1 SLOPE CONTROLS NOSE OF ATTENUATOR BASE ELEVATION.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			NSTALL	ATION D	ETAIL
	SCALE:	SHEET NO.	OF	SHEETS	STA.

AILS		F.A. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.		
						CONTRACT	NO.	
TA.	TO STA.	FED. RC	DAD DIST. NO.	ILLINOIS FEE	D. AIC) PROJECT		

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	PLOT SCALE = 47.727 '/ IN.	CHECKED -	REVISED -
	PLOT DATE = Jul 28,2009 - 09:51:53 AM	DATE -	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

				F.A. RTE.	SEC.	TION	COUNTY	TOTAL SHEETS	SHEET NO.
	REMOVE AND REERECT STEEL PI	LATE BEAM	GUARDRAIL						
		1		_			CONTRACT	NO.	
SCALE:	SHEET NO. 1 OF 4 SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO.	ILLINOIS FED. A	ID PROJECT		

STEEL BLOCK-OUT DETAIL

POST OR SPLICE BOLT & NUT

STATE OF ILLINOIS						
DEPARTMENT OF	TRANSPORTATION					

	REMOV	e and) R	EE	RECT	STEEL	PLA	\TE
SCALE:		SHEET	NO.	2	OF 4	SHEET	s	STA

WOOD POST CONSTRUCTION

633–1	B
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E BEAM	GUARDRAIL	F.A. RTE.	SEC1	ION		COUNTY	TOTAL SHEETS	SHEET NO.
						CONTRACT	NO.	
ſA.	TO STA.	FED. RC	AD DIST. NO.	ILLINOIS F	ED. AIC) PROJECT		

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	PLOT SCALE = 47.727 '/ IN.	CHECKED	-	REVISED -
	PLOT DATE = Jul 28,2009 - 10:38:01 AM	DATE	-	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMO	OVE AND REER	ECT STEEL	. PLA 1
	SCALE:	SHEET NO. 3 OF	4 SHEETS	STA

633–1C

		F.A. RTE.	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
TE BEAM	GUARDRAIL							
						CONTRACT	NO.	
Α.	TO STA.	FED. RO	DAD DIST. NO.	ILLINOIS	FED. AIC) PROJECT		

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	PLOT SCALE = 47.727 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = Jul 28,2009 - 10:39:20 AM	DATE -	REVISED -

C)''
>18	,,,
>411/	2

FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED

ELEVATION

NOTE: LEDGE LINE IS TOP OF ROCK LEDGE OR HARD SLAG FILL.

NOTE:

IF IT IS NECESSARY FOR D TO BE MORE THAN 12" AND LESS THAN 10'-O" TYPE M-2 CURB AND GUTTER (STD. 606001) SHALL BE USED IN FRONT OF AND IN ADVANCE OF THE GUARDRAIL.

GUARDRAIL PLACED BEHIND CURB

(D = O DESIRABLE TO 12" MAXIMUM)

1" DOUBLE NUTS OR LOCKNUTS AND WASHER

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

REMOVE AND REERECT STEEL PLA

		F.A. RTE.	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
TE BEAM	GUARDRAIL							
						CONTRACT	NO.	
Α.	TO STA.	FED. RC	DAD DIST. NO.	ILLINOIS	FED. AII	D PROJECT		

ELEVATION WOOD POST DETAIL

\mathbf{X}^{\dagger} $\langle | \rangle$ \mathbf{X}^{\dagger} \setminus \setminus \mathbf{X} \mathbf{n} $\langle 1 | 1$ \setminus \setminus \mathbf{x} \bigvee $\langle | |$ $\langle / / \rangle$ **ALTERNATE TERMINAL MARKER PLACEMENT**

POST MOUNT ONLY WITH TWISTED OR SLOPING TERMINAL WHERE SHEETING CANNOT BE APPLIED DIRECTLY TO TERMINAL

DELINEATION

FOR MAINTENANCE

CROSSOVER

(TYPICAL FOR BOTH DIRECTIONS)

635–2

DETAIL A

GENERAL NOTES

WOOD POSTS, CABLE, AND SIGN SUPPORTS SHALL BE IN ACCORDANCE WITH SECTION 634 & 636 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THE PANELS SHALL BE ANCHORED TO THE $\frac{3}{8}$ " CABLE IN SUCH A MANNER SO THEY CANNOT SLIDE ALONG THE CABLE.

THE REFLECTIVE SHEETING USED FOR THE PANELS SHALL MEET THE REQUIREMENTS OF ARTICLE 1084.02 OF THE STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION AND SHALL BE ON BOTH SIDES.

ALL PANELS SHALL HAVE ALTERNATING REFLECTORIZED WHITE & RED STRIPES SLOPING DOWNWARD AT 45° TOWARD THE SIDE ON WHICH TRAFFIC WILL PASS AND ON BOTH SIDES OF PANEL. THE DRILLING OF 3" AND 4" HOLES SHALL BE INCIDENTAL TO THE MEDIAN CLOSURE.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR MEDIAN CLOSURE.

TYPICAL MEDIAN CROSSOVER CLOSURE (WITH EMERGENCY OPENING)

DETAIL A

GENERAL NOTES

WOOD POSTS, CABLE, AND SIGN SUPPORTS SHALL BE IN ACCORDANCE WITH SECTION 634 & 636 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THE PANELS SHALL BE ANCHORED TO THE $\frac{3}{8}$ " CABLE IN SUCH A MANNER SO THEY CANNOT SLIDE ALONG THE CABLE.

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THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR MEDIAN CLOSURE.

TYPICAL MEDIAN CROSSOVER CLOSURE

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	PLOT SCALE = 47.727 '/ IN.	CHECKED -	REVISED -
	PLOT DATE = Jul 28,2009 - 10:46:39 AM	DATE -	REVISED -

NOTES

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE THE APPROVED WIDE FLANGE BEAM TERMINAL JOINT WITH THE END EXPANSION PLATE DETAIL SHOWN.

ALL EXPANSION PLATES SHALL BE AASHTO M183 AND SHOP PAINTED WITH ZINC SILICATE AND VINYL PAINT SYSTEM.

COST OF EXPANSION PLATES TO BE INCLUDED IN THE COST OF THE WIDE FLANGE BEAM TERMINAL JOINT COMPLETE.

SEE STANDARD 637001 AND PLANS FOR ADDITIONAL CONCRETE BARRIER DETAILS.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	C	ONCRETE B	ARRIER	EXPAN	SION
	SCALE:	SHEET NO.	OF	SHEETS	STA.

ON PLATE DETAIL		F.A. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
					CONTRACT	NO.	
TA.	TO STA.	FED. RC	DAD DIST. NO.	ILLINOIS FED.	AID PROJECT		

DESIGNER NOTES

I. TO BE USED WITH INSERTED SPECIAL PROVISION GLARE SCREEN BLADES.

MODULAR GLARE SCREEN BLADES

638–1

SIDE VIEW

NOTE:

THE TREATED TIMBER SHALL BUTT TOGETHER AT THE GUARDRAIL POST OR SPLICED AS SHOWN ON THE DETAIL.

THE TREATED TIMBER SHALL BE TREATED IN ACCORDANCE TO ARTICLE 1007.12 AND ALL PRESERVATIVES SPECIFIED IN THE ARTICLE WILL BE ALLOWED.

THE PRICE FOR EROSION CONTROL CURB SHALL INCLUDE THE U-BOLTS ATTACHING THE TREATED TIMBER TO THE GUARDRAIL POSTS, TREATED TIMBER, AND THE NECESSARY GRADING TO COMPLETE THIS WORK.

INCIDENTAL HMA SURFACING SHALL BE MEASURED AND PAID FOR AT CONTRACT UNIT PRICE PER TON FOR INCIDENTAL HMA SURFACING.

THE EROSION CONTROL CURB SHALL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR EROSION CONTROL CURB.

DESIGNER NOTE:

THE REFERENCE MARKERS SHALL BE CONSTRUCTED BY POURING CLASS SI CONCRETE INTO HOLES PREPARED BY A POST HOLE DIGGER OR OTHER APPROVED METHODS. FORMS WILL NOT BE REQUIRED. PRECAST MARKERS OF THE SAME SIZE AND CONSTRUCTION MAY BE USED.

IN CULTIVATED FIELDS REFERENCE MARKERS SHALL BE PLACED TWO FEET BELOW THE GROUND SURFACE. IN FENCE LINES OR PROTECTED AREAS THE TOP SHALL BE PLACED AT GROUND LEVEL.

THE FOLLOWING WORK SHALL BE DONE UNDER THE DIRECTION OF A REGISTERED LAND SURVEYOR OF THE STATE OF ILLINOIS:

VERIFY AND TIE OFF ALL U.S. PUBLIC LAND SURVEY MONUMENTS, SHOWN IN THE PLANS, PRIOR TO CONSTRUCTION OPERATIONS. TIE POINTS SHALL BE SUFFICIENT IN NUMBER AND IN LOCATIONS AS NOT TO BE DISTURBED DURING CONSTRUCTION OPERATIONS.

AFTER CONSTRUCTION OPERATIONS ARE COMPLETE, INSTALL A PERMANENT SURVEY MARKER OF THE TYPE SPECIFIED TO REPLACE THE U.S. PUBLIC LAND SURVEY MONUMENT THAT WAS DISPLACED OR COVERED DURING CONSTRUCTION. THE LETTERING REFERRING TO THE STATE OF ILLINOIS AND DIVISION OF HIGHWAYS SHALL BE OMITTED FROM THE PERMANENT SURVEY MARKER AND THE MARKER SHALL BE MARKED AS DIRECTED BY THE ENGINEER.

SET FOUR CONCRETE REFERENCE MARKERS FOR EACH U.S. PUBLIC LAND SURVEY MONUMENT.

PREPARE MONUMENT RECORDS, FILE THE RECORDS AT THE COUNTY RECORDER'S OFFICE, AND PROVIDE A COPY TO THE DISTRICT OFFICE.

PERMANENT SURVEY MARKERS, OF THE TYPE SPECIFIED AND MARKING SAID MARKERS.

LAND SECTION MARKERS

SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE, EACH, WHICH WILL BE PAYMENT IN FULL FOR SETTING TIE POINTS, SETTING FOUR CONCRETE REFERENCE MARKERS, PREPARING MONUMENT RECORDS, RECORDING AT COUNTY RECORDER'S OFFICE AND PROVIDING A COPY TO THE DISTRICT OFFICE.

REQUIRES STANDARD 667101.

THE CODE NUMBER FOR LAND SECTION MARKERS IS Z0032900.

NOT TO BE USED IN URBAN AREAS. ONLY TO BE USED ON PROJECTS WITH CONTINUOUS LAND ACQUISITION THROUGHOUT.

LAND SECTION MARKERS

NOTES

SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE, EACH, WHICH WILL BE PAYMENT IN FULL FOR FURNISHING, INSTALLING

CONCRETE REFERENCE MARKER