

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2943	2017-063BR	COOK	17	01
		ILLINOIS	CONTRACT NO. 62G07	

D-91-241-18



FOR INDEX OF SHEETS, SEE SHEET NO. 2

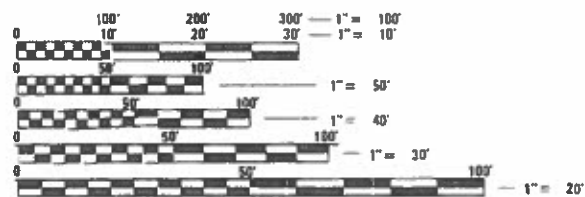
**PROPOSED
HIGHWAY PLANS**

ROUTE: FAU 2943 / BURNHAM AVE
OVER DITCH (1.0 MI N. OF IL 83)
SECTION 2017-063BR
CULVERT REPAIRS
COOK COUNTY
C-91-108-18

TRAFFIC DATA:

EXISTING ADT = 5800 (2014)
POSTED SPEED = 50 MPH

PROJECT IS LOCATED IN THE
VILLAGE OF LYNWOOD

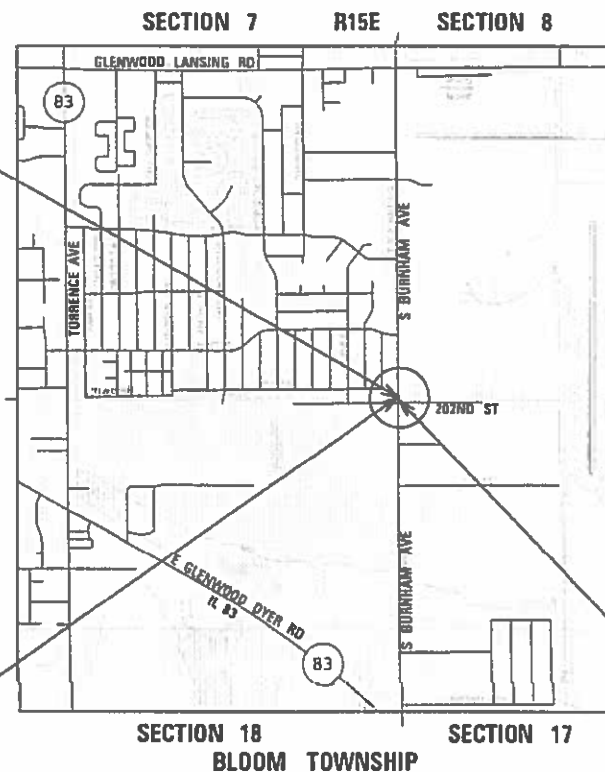


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT LOCATION
BURNHAM AVE AT
202ND ST
STRUCTURE NO. 016-1203

IMPROVEMENT ENDS
STA. 80 + 06



IMPROVEMENT BEGINS
STA. 79 + 56



m. orrent
DATE: 4/11/2018
IL. LICENSED PROFESSIONAL
LICENSE EXPIRES ON 11/30/2019



M. Saleh
DATE: 4/11/2018
IL. LICENSED PROFESSIONAL
LICENSE EXPIRES ON 11/30/2018

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *December 22, 2018*

Anthony J. Dringler REGIONAL ENGINEER
Dec 7 2018

Paul J. [Signature] ENGINEER OF DESIGN AND ENVIRONMENT
Dec 7 2018

Paul J. [Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PROJECT ENGINEER JEAN ALAIN MIDY, PE (847) 221-3056
PROJECT MANAGER FAWAD AQUEEL, PE, PTOE (847) 705-4247

CONTRACT NO. 62G07

GROSS LENGTH OF PROJECT = 100 FEET = 0.02 MILES
NET LENGTH OF PROJECT = 100 FEET = 0.02 MILES

AES ENGINEERS & SURVEYORS
111 S. Wacker Drive,
Suite 3910
Chicago, IL 60606
Ph: 312-235-6783

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX

1.	COVER SHEET
2.	INDEX OF SHEETS, HIGHWAY STANDARDS, DISTRICT 1 STANDARDS AND GENERAL NOTES
3-5.	SUMMARY OF QUANTITIES SHEET
6.	TYPICAL SECTIONS
7.	SCHEDULES OF QUANTITIES
8.	ALIGNMENT, TIES AND BENCHMARKS
9.	PLAN
10.	DETOUR PLAN
11.	EROSION CONTROL PLAN
12.	GENERAL PLAN AND ELEVATION
13.	CULVERT DETAILS
14.	AS-BUILT PLAN STRUCTURE NUMBER SN. 016-1203
15-17.	DISTRICT ONE DETAILS

HIGHWAY STANDARDS

<u>STANDARD NO</u>	<u>DESCRIPTION</u>
000001-07	STANDARDS SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
630001-12	STEEL PLATE BEAM GUARDRAIL
630101-10	STRONG POST GUARDRAIL ATTACHED TO CULVERT
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
635001-02	DELINEATORS
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W MOVING OPERATIONS-DAY ONLY
701901-08	TRAFFIC CONTROL DEVICES
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
725001-01	OBJECT AND TERMINAL MARKERS

DISTRICT 1 STANDARDS

<u>STANDARD NO</u>	<u>DESCRIPTION</u>
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS

GENERAL NOTES:

1. THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
2. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES (48 HOUR NOTIFICATION IS REQUIRED).
3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF LYNWOOD.
4. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
5. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE PREFERENCE. ALL EXISTING PAVEMENT MARKING LINES AND REVISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT CORY.JUCIUS@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
8. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF ALL EMERGENCY SERVICES, SCHOOL DISTRICTS, I.D.O.T.'S COMMUNICATIONS CENTER, SPRINGFIELD TRUCK PERMIT SECTION AND OTHER AGENCIES AFFECTED BY THE CLOSURE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR POSTING SIGNS THAT WILL INDICATE THE DATES THE CLOSURE WILL BE IN PLACE.

MODEL: Default
 FILE NAME: I:\0618002-03_IDOT_PFB\85_002_W03_BurnhamAveCulvert_62G07_101\CADD\0805Sheet2_D162G07-shk-Gen.dgn



USER NAME = makrent	DESIGNED - TOM	REVISED -
	DRAWN - YN	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - MO	REVISED -
PLOT DATE = 10/17/2018	DATE - 10/15/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BURNHAM AVE AND 202ND ST CULVERT REPAIRS
INDEX, HIGHWAY STANDARDS AND GENERAL NOTES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2943	2017-063BR	COOK	17	02
CONTRACT NO. 62G07			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN
				CONSTR.CODE
				100% STATE
				BOX CULVERT 0013 S.N. 016-1203
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	26	26
20200100	EARTH EXCAVATION	CU YD	10	10
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	137	137
25000312	SEEDING, CLASS 4A	ACRE	0.25	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	3	3
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	3	3
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	137	137
25200200	SUPPLEMENTAL WATERING	UNIT	2	2
28000400	PERIMETER EROSION BARRIER	FOOT	305	305
28100103	STONE RIPRAP, CLASS A2	SQ YD	7	7
44201789	CLASS D PATCHES, TYPE II, 12 INCH	SQ YD	6	6
48101600	AGGREGATE SHOULDERS, TYPE B 8"	SQ YD	44	44
50102400	CONCRETE REMOVAL	CU YD	18	18
50200100	STRUCTURE EXCAVATION	CU YD	39	39

* SPECIALTY ITEMS

MODEL: Default
FILE NAME: \\s0618002-03_IDDT_PFB185_002_W03_BurnhamAveCulvert_62G07_01\CADD\005Sheet\3_D162G07-shb-5001.dgn



111 S. Wacker Drive,
Suite 3910
Chicago, IL 60606
Ph: 312-235-6783

USER NAME = mokrent
DESIGNED - TOM
DRAWN - YN
CHECKED - MO
DATE - 10/15/2018

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BURNHAM AVE AND 202ND ST CULVERT REPAIRS
SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. OF TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2943	2017-063BR	COOK	17	03
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62G07	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN	
				CONSTR.CODE	
				100% STATE	BOX CULVERT
				0013	S.N. 016-1203
50300300	PROTECTIVE COAT	SQ YD	51	51	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4,500	4,500	
52200010	TEMPORARY SHEET PILING	SQ FT	362	362	
54003000	CONCRETE BOX CULVERTS	CU YD	18	18	
* 63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	23	23	
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2	2	
63500105	DELINEATORS	EACH	4	4	
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	50	50	
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1	
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1	
* 66901002	ON-SITE MONITORING OF REGULATED SUBSTANCES	CAL DAY	10	10	
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3	
67100100	MOBILIZATION	L SUM	1	1	

* SPECIALTY ITEMS

MODEL: Default
FILE: Burnham Ave and 202nd St Culvert.dwg
D:\62G07\101\CADD\005\Sheet\14_0162G07-218-5002.dwg



111 S. Wacker Drive,
Suite 3910
Chicago, IL 60606
Ph: 312-235-6783

USER NAME = mokrent
DESIGNED - TOM
DRAWN - YN
CHECKED - MO
DATE - 10/15/2018

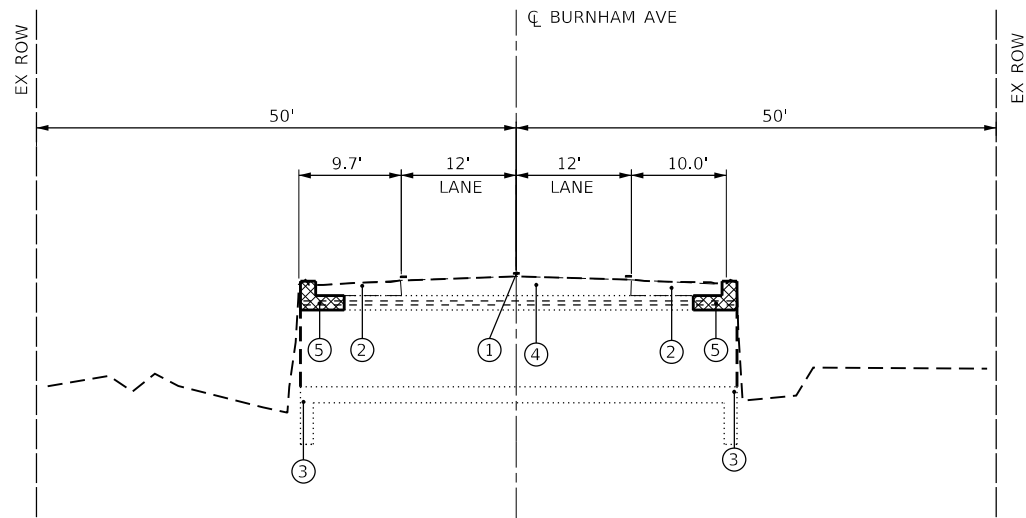
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BURNHAM AVE AND 202ND ST CULVERT REPAIRS
SUMMARY OF QUANTITIES

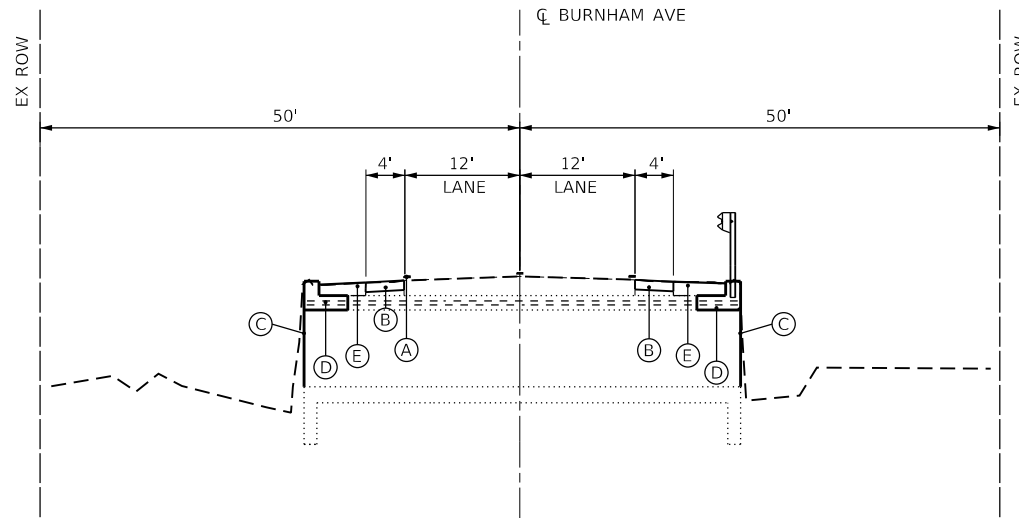
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2943	2017-063BR	COOK	17	04
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62G07	



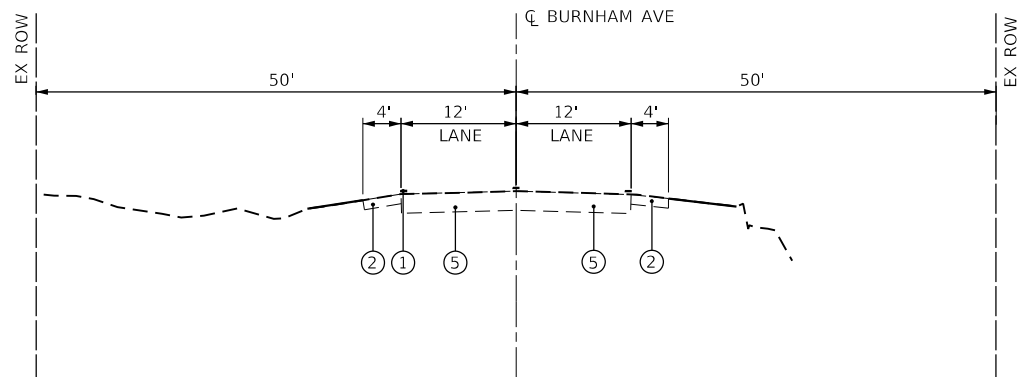
**EXISTING ROADWAY TYPICAL SECTION AT CULVERT
LOOKING NORTH**

STA. 79+75.00



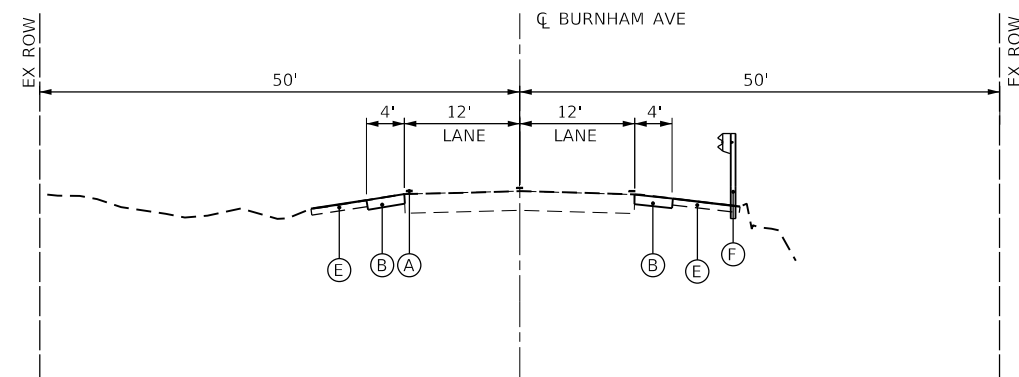
**PROPOSED ROADWAY TYPICAL SECTION AT CULVERT
LOOKING NORTH**

STA. 79+75



**EXISTING ROADWAY TYPICAL SECTION
LOOKING NORTH**

STA. 80+00



**PROPOSED ROADWAY TYPICAL SECTION
LOOKING NORTH**

STA. 80+00

LEGEND:

- ① EXISTING PAVEMENT MARKING
- ② EXISTING AGGREGATE SHOULDER
- ③ EXISTING HEAD WALL
- ④ EXISTING PAVEMENT
- ⑤ CONCRETE REMOVAL
- ⑥ BOX CULVERT

- (A) THPL PAVEMENT MARKING - LINE 4"
- (B) AGGREGATE SHOULDERS, TYPE B 8"
- (C) HEAD WALL
- (D) TOP SLAB REPLACEMENT
- (E) SEED CLASS 4A WITH TOPSOIL - 4"
- (F) STEEL PLATE BEAM GUARDRAIL

MODEL: D:\a\h\111 S. Wacker Drive, Suite 3910, Chicago, IL 60606
 FILE: 2943_2017-063BR_002 - JDDT - PFB185_002 - W03 - BurnhamAveCulvert_62G07_01.CADD\005Sheet16_0162G07-shb-Typical.scdgn



111 S. Wacker Drive,
Suite 3910
Chicago, IL 60606
Ph: 312-235-6783

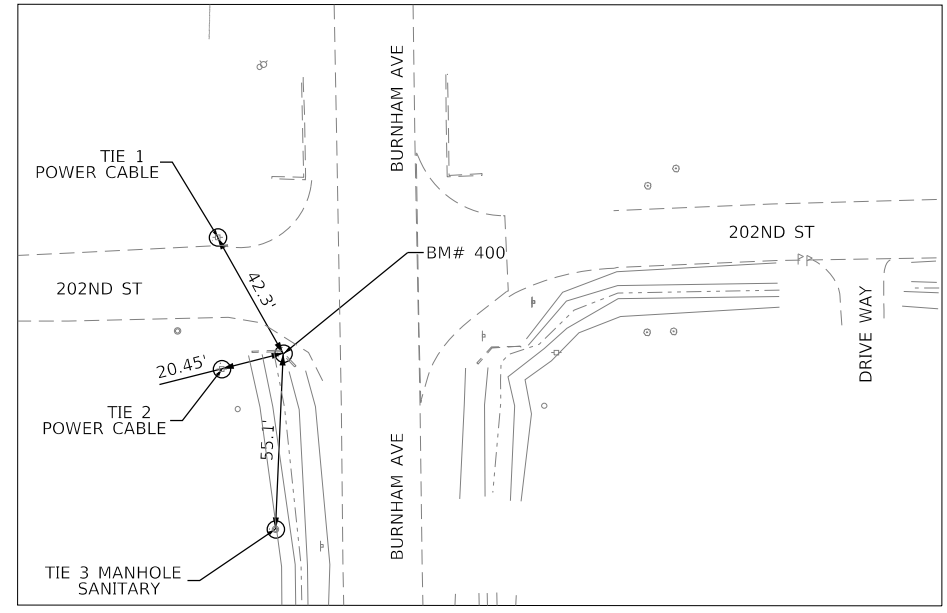
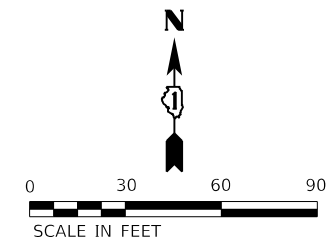
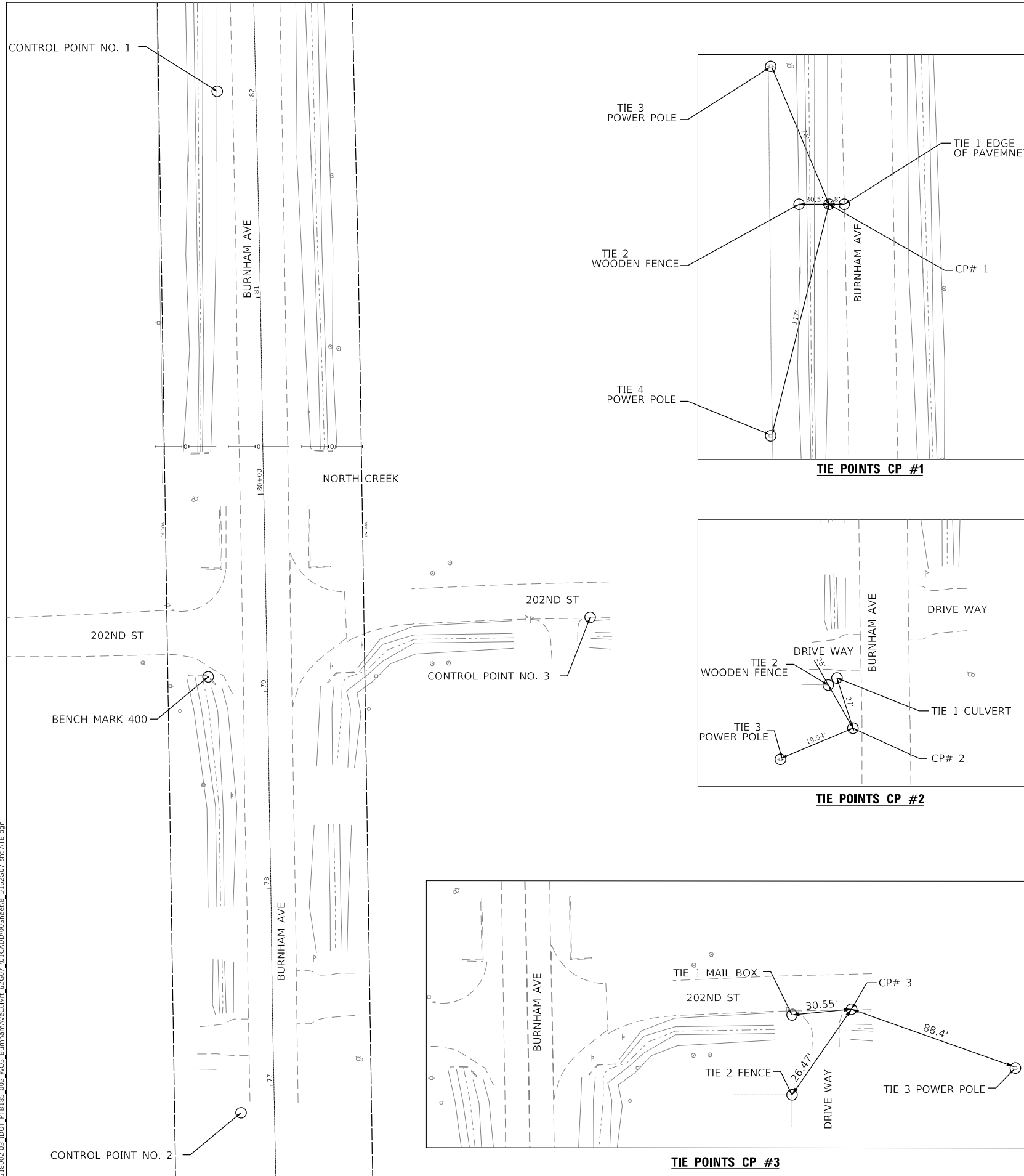
USER NAME = mokrent	DESIGNED - TOM	REVISED -
DRAWN - YN	REVISOR -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - MO	REVISED -
PLOT DATE = 10/17/2018	DATE - 10/15/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BURNHAM AVE AND 202ND ST CULVERT REPAIRS
TYPICAL SECTIONS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2943	2017-063BR	COOK	17	06
CONTRACT NO. 62G07				
ILLINOIS FED. AID PROJECT				



CP #1
 ELEV. : 614.733
 TYPE OF MARKER : IRON ROD
 NORTHING : 1771962.6620
 EASTING : 1201712.9380
 LOCATION : IRON ROD ON WEST SIDE OF BURNHAM AVE 230' NORTH OF CULVERT

CP #2
 ELEV. : 615.449
 TYPE OF MARKER : IRON ROD
 NORTHING: 1771444.3540
 EASTING: 1201725.0350
 LOCATION: IRON ROD ON BURNHAM AVE 292' SOUTH OF CULVERT

CP #3
 ELEV. : 615.646
 TYPE OF MARKER : MAG NAIL
 NORTHING: 1771695.7490
 EASTING: 1201902.2720
 LOCATION: IRON ROD ON 202ND ST 142' EAST OF CULVERT

BENCHMARK #400
 ELEV. :615.466
 TYPE OF MARKER: CUT CROSS ON HEAD WALL
 NORTHING: 1771665.9110
 EASTING: 1201708.3750
 LOCATION: CUT CROSS ON HEAD WALL

MODEL: D:\default
 FILE NAME: I:\060618002.03_IDOT_PFB185_002_W03_BurnhamAveCulvert_62G07_01\CADD\005sheet18_D162G07-shk-ATB.dgn



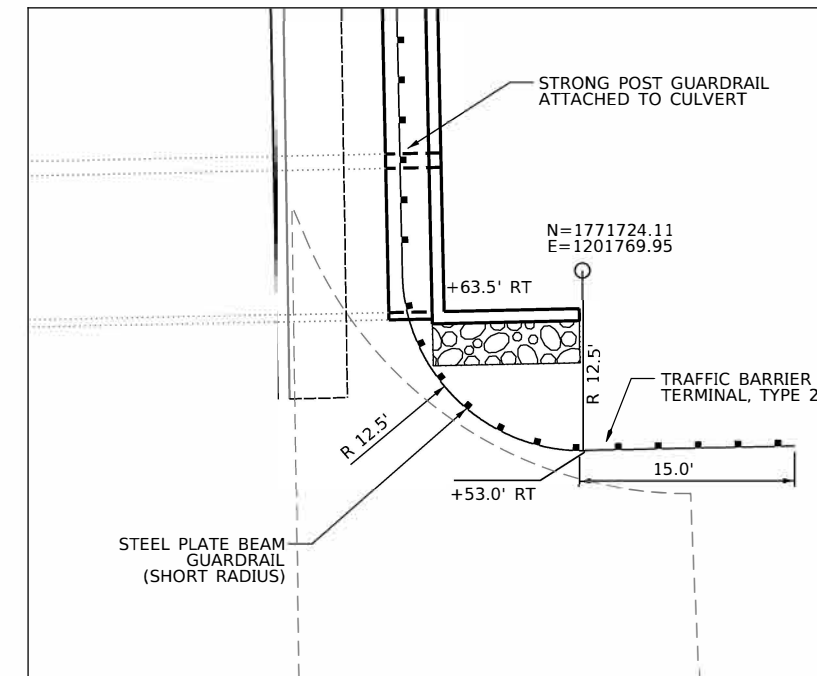
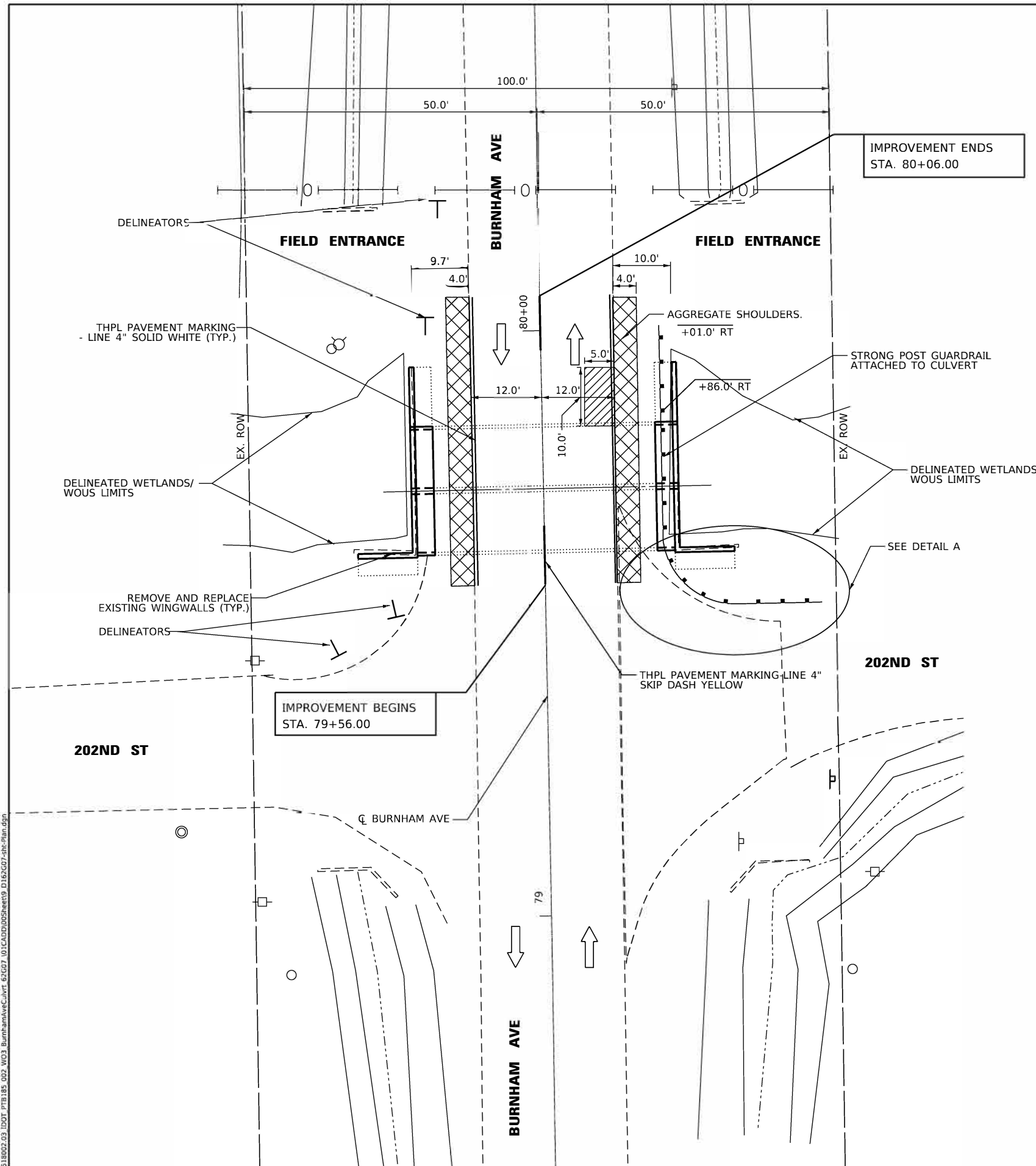
USER NAME = mokrent	DESIGNED - TOM	REVISED -
PLOT SCALE = 60.0000' / in.	DRAWN - YN	REVISED -
PLOT DATE = 10/17/2018	CHECKED - MO	REVISED -
	DATE - 10/15/2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

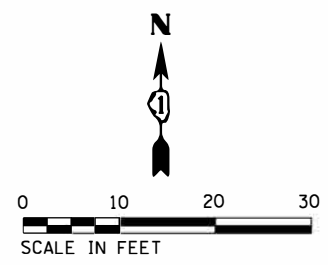
**BURNHAM AVE AND 202ND ST CULVERT REPAIRS
 ALIGNMENTS, TIES AND BENCHMARKS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2943	2017-063BR	COOK	17	08
CONTRACT NO. 62G07				
ILLINOIS		FED. AID PROJECT		



DETAIL A



**HMA MIXTURE REQUIREMENTS
PATCHING**

HOT-MIX ASPHALT MIXTURE REQUIREMENTS MIXTURE TYPE	AIR VOIDS @ NDES	QMP
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 MM) 2"	4% @ 70 GYR.	QC/QA
CLASS D PATCH (HMA BINDER IL-19 mm) 10"	4% @ 70 GYR.	QC/QA

QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA)

MIXTURE TABLE NOTES

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQYD/IN.
2. THE "AC TYPE" 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.
3. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

LEGEND

- TRAFFIC FLOW DIRECTION
- STEEL PLATE BEAM GUARDRAIL
- SHOULDER RECONSTRUCTION
- CLASS D PATCH
- EXISTING OIL PIPELINE

MODEL: Defaul...
 FILE NAME: \\S0618002\03_IDOT_P711185_002_W03_BurnhamAveCulvert_67G07_101\CADD\005\sheet19_D162G07-akt-plm.dgn

AES
ENGINEERS & SURVEYORS
111 S. Wacker Drive,
Suite 3910
Chicago, IL 60606
Ph: 312-235-6783

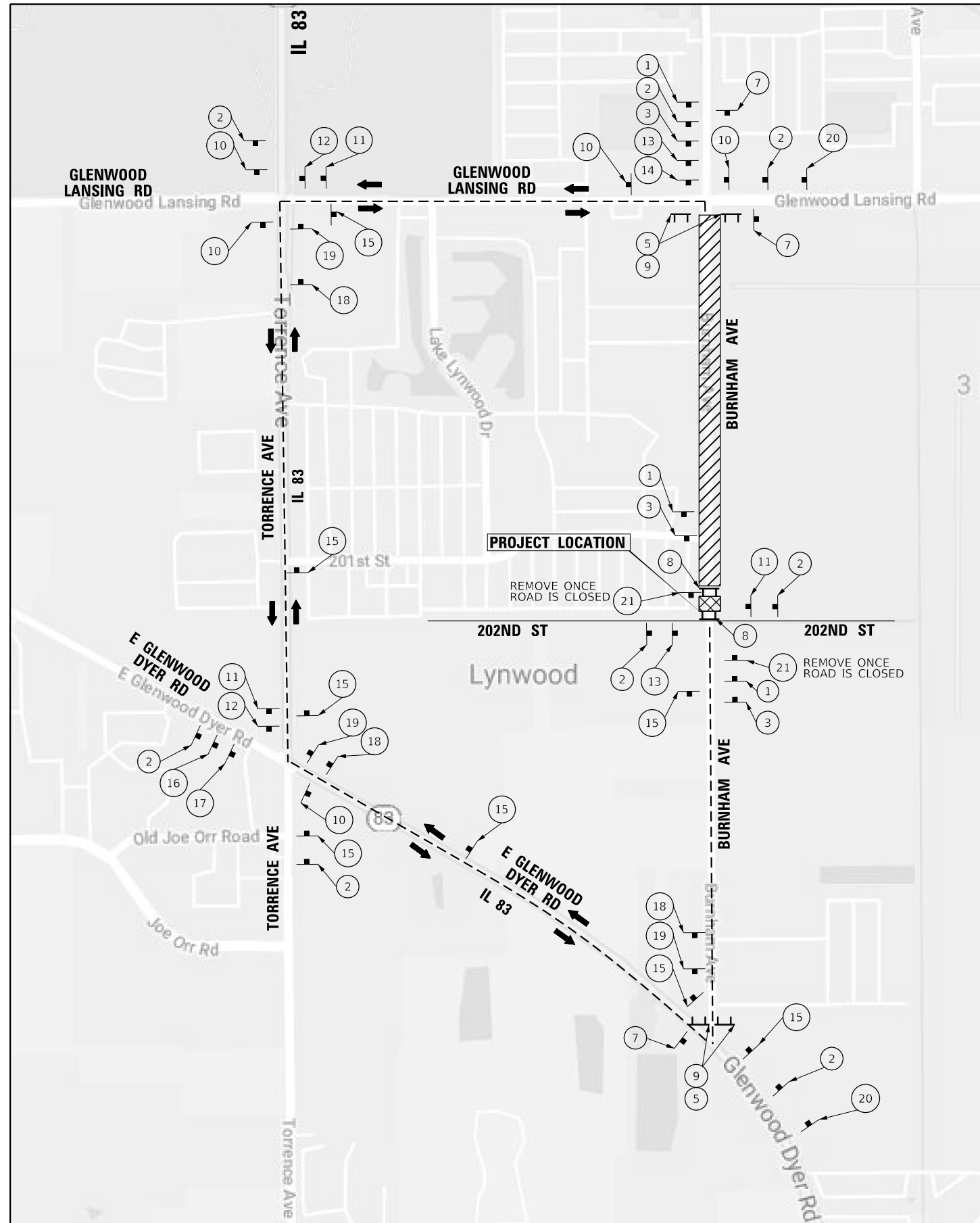
USER NAME = makrent	DESIGNED - TOM	REVISED -
	DRAWN - YN	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - MO	REVISED -
PLOT DATE = 10/23/2018	DATE - 10/15/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BURNHAM AVE AND 202ND ST CULVERT REPAIRS
PLAN**

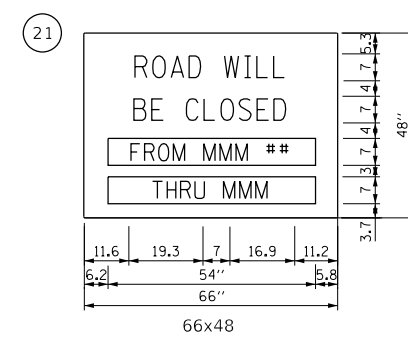
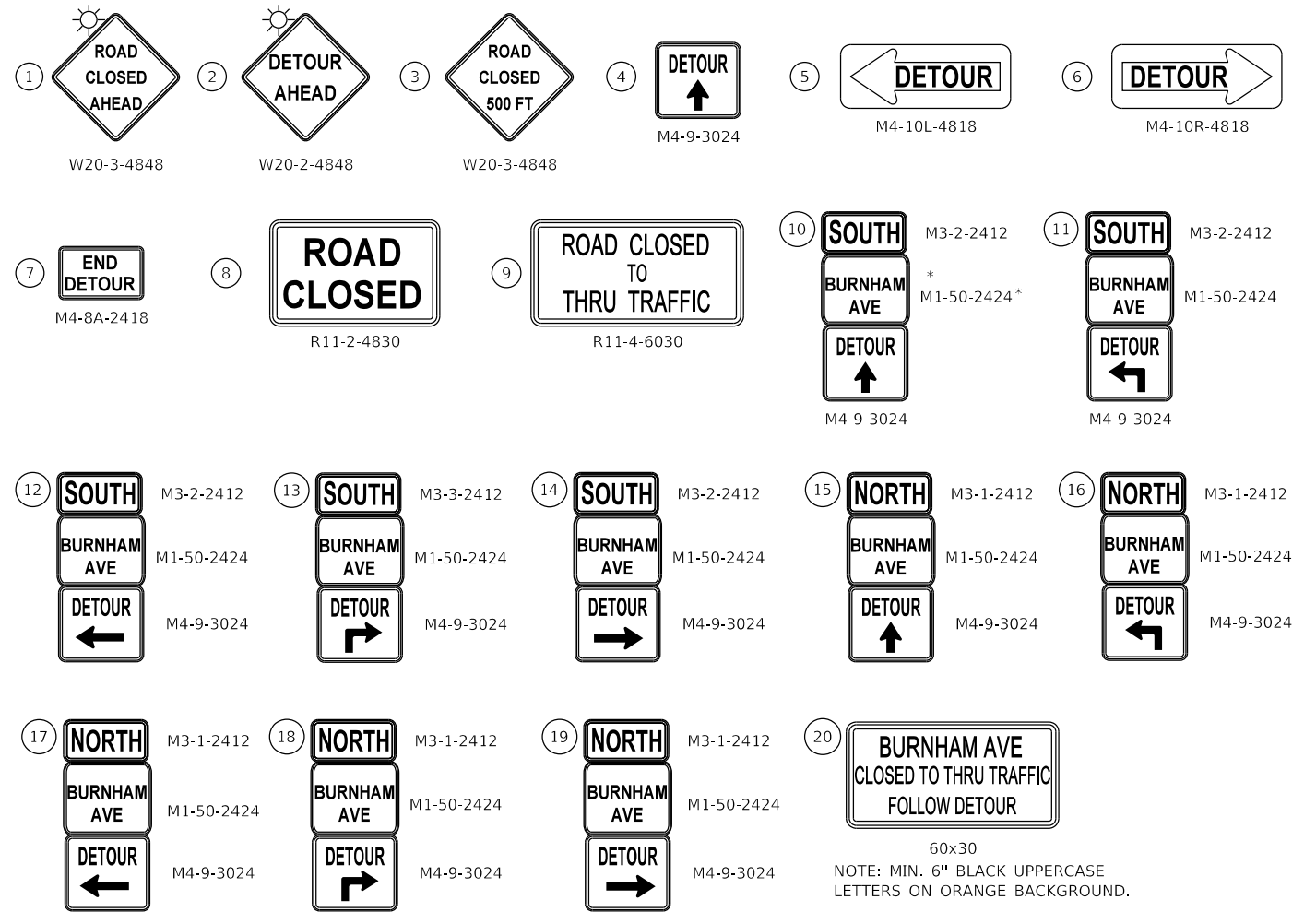
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2943	2017-063BR	COOK	17	09
CONTRACT NO. 62G07				
ILLINOIS FED. AID PROJECT				



NOTES:

1. DETOUR SIGNAGE SHALL NOT BE INSTALLED ON ANY COOK COUNTY DEPARTMENT OF TRANSPORTATION AND HIGHWAYS (CCDTH) STREET LIGHT POLES OR SIGNAL POLES. IF THEY ARE FOUND TO BE INSTALLED ON IDOT POLES, THEY WILL BE IMMEDIATELY REMOVED.
2. DETOUR SIGNAGE SHALL NOT BLOCK ANY IDOT SIGNS AND CANNOT USE THE IDOT SIGN POSTS.
3. SIGN POSTS SHALL BE INSTALLED AT LEAST TWELVE (12) FEET FROM THE EDGE OF THE MAINLINE ROADWAY (WHITE PAINTED EDGELINE).
4. CONTACT AND NOTIFY MR. JOHN YONAN, P.E., OF THE COOK COUNTY DIVISION OF TRANSPORTATION (CCDTH) AT (312) 603-1601 AT LEAST 48 HOURS IN ADVANCE OF PLACING SIGNAGE ALONG THE COUNTY HIGHWAY(S).
5. DETOUR SIGN INSTALLATION CONTRACTOR SHALL CALL JULIE FOR UTILITY LOCATES. IDOT MAY HAVE STORM DRAIN, SIGNAL AND LIGHTING FACILITIES IN THESE AREAS THAT WILL REQUIRE LOCATES. CONTACT JULIE AT (800) 892-0123.
6. REFER TO IDOT DISTRICT 1 DETAIL TC 21 FOR TYPICAL SIGN LAYOUT
7. THE DURATION OF DETOUR SHALL NOT EXCEED MORE THAN 4 WEEKS.



* M1-50-2424 SIGNS SHALL BE CUSTOM NAME SIGN. MIN. 6" BLACK UPPERCASE LETTERS ON ORANGE BACKGROUND OR WHEN LOWER CASE IS USED THEY SHALL BE ¾ SIZE OF UPPERCASE USED.

LEGEND:

- TT TYPE III BARRICADES CONFORMING TO STD. 701901 WITH 2 FLASHING LIGHTS PER BARRICADE
- ▨ PARTIALLY CLOSED ROAD
- ▣ WORK ZONE
- - - DETOUR ROUTE
- ➔ TRAFFIC FLOW
- ☀ TYPE A FLASHING LIGHT

MODEL: Default
 FILE: \\nairec\1060618002\03_IDOT_FT18185_002_W03_BurnhamAveCulvert_62G07_01\CADD\005\sheet10_D162G07-rpt-Detour.dgn



USER NAME = mokrent	DESIGNED - TOM	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN - YN	REVISED -
PLOT DATE = 11/7/2018	CHECKED - MO	REVISED -
	DATE - 10/15/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

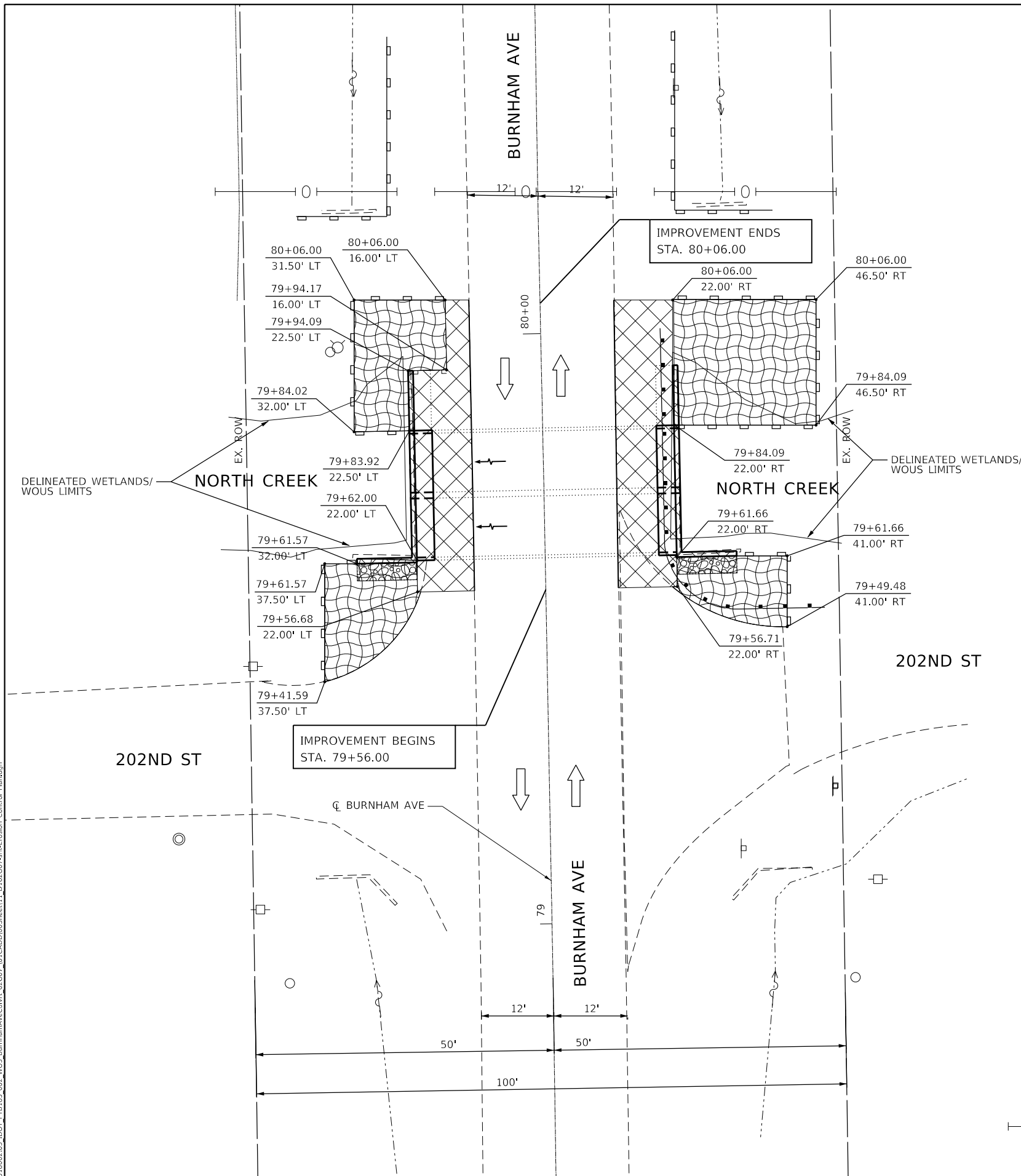
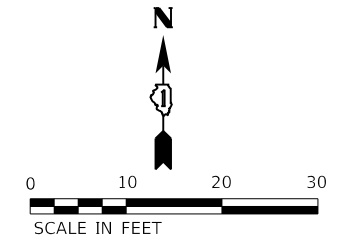
**BURNHAM AVE AND 202ND ST CULVERT REPAIRS
DETOUR PLAN**

SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2943	2017-063BR	COOK	17	10
CONTRACT NO. 62G07				
ILLINOIS FED. AID PROJECT				

SEEDING AND EROSION CONTROL SCHEDULE

LOCATION	SIDE	HEAVY DUTY EROSION CONTROL BLANKET WITH SEEDING, CLASS 4A (SQ YD)
STATION TO STATION	LT/RT	
BURNHAM AVE		
79+41.59 TO 80+06.00	LT	59.0
79+56.71 TO 80+06.00	RT	78.0
TOTAL		137



NOTES:

1. EROSION CONTROL ITEMS ARE CONSIDERED TO BE HIGH PRIORITY ITEMS ON THIS CONTRACT. THE ENGINEER WILL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATIONS NECESSARY TO ASSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY MANNER. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES WHICH WILL POTENTIALLY CREATE ERODIBLE CONDITIONS.
2. THE EROSION CONTROL MEASURES SHOWN ARE A GRAPHICAL REPRESENTATION OF SUGGESTED MEASURES. DEVIATIONS FROM THIS PLAN ARE TO BE EXPECTED PENDING A JOB SITE INSPECTION BETWEEN THE CONTRACTOR AND THE DEPARTMENT.
3. THE CONSTRUCTION LIMIT WILL BE STAKED BY THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION. THE CONSTRUCTION LIMITS MAY BE ADJUSTED BY THE ENGINEER TO PRESERVE TREES AND NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR CHANGED CONSTRUCTION LIMITS.
4. THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN SEDIMENT CONTROL MEASURES PRIOR TO STRIPPING EXISTING VEGETATION.
5. NO SEDIMENT SHALL BE ALLOWED TO FLOW DOWNSTREAM AT ANY TIME. ALL WATER FROM DEWATERING OPERATIONS SHALL BE FILTERED TO REMOVE SEDIMENT BEFORE IT IS DISCHARGED DOWNSTREAM.
6. ANY AREA WHERE THERE IS NO PROPOSED GRADING THE EXISTING GROUND COVER SHALL REMAIN.
7. DUE TO STEEP SLOPES AND LIMITED R.O.W., AREAS AVAILABLE FOR EARTHWORK STOCKPILING ARE LIMITED AND SUBJECT TO APPROVAL OF THE ENGINEER.
8. TEMPORARY FENCE WILL BE USED AS WETLAND EXCLUSION FENCING AND "WETLAND NO INTRUSION" SIGNAGE POSTED AT THE BOUNDARY OF UN-IMPACTED WETLANDS WITHIN THE R.O.W. THE SIGNAGE IS AVAILABLE AT THE BUREAU OF MAINTENANCE (BOM) BY CONTACTING STEVE LIPKE (847-705-4173) TO ARRANGE PICK UP. SIGNS ARE TO BE RETURNED TO BOM AT THE END OF CONSTRUCTION. SIGN PICK UP, POSTING AND RETURN WILL BE INCLUDED IN THE COST OF TEMPORARY FENCE.
9. ALL MATERIALS USED FOR CONSTRUCTION ACTIVITIES MUST BE MOVED TO AN UPLAND AREA IMMEDIATELY FOLLOWING COMPLETION OF THE CONSTRUCTION ACTIVITY. NO HEAVY EQUIPMENT MACHINERY WILL BE ALLOWED WITHIN THE WETLANDS/WOUS DELINEATED AREA.
10. TEMPORARY SHEET PILE AND DIKE SHOWN ARE SUGGESTIONS TO CHANNELIZE THE FLOW OUTSIDE THE CONSTRUCTION AREA. ACTUAL APPROACH WILL BE THE CONTRACTOR'S RESPONSIBILITY WITH APPROVAL OF THE ENGINEER.

LEGEND:

- RIP RAP RR-2
- PERIMETER EROSION BARRIER
- HEAVY DUTY EROSION CONTROL BLANKET W/SEEDING CLASS 4A
- EXISTING OIL PIPELINE
- EXISTING DITCH
- WORKZONE
- TRAFFIC FLOW DIRECTION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**BURNHAM AVE AND 202ND ST CULVERT REPAIRS
EROSION CONTROL PLAN**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2943	2017-063BR	COOK	17	11
CONTRACT NO. 62G07				

SCALE: SHEET OF SHEETS STA. TO STA.

MODEL: Default
 FILE: Burnham Ave Erosion Control Plan.dgn
 MODEL: Default
 FILE: Burnham Ave Erosion Control Plan.dgn

AES
ENGINEERS & SURVEYORS
111 S. Wacker Drive,
Suite 3910
Chicago, IL 60606
Ph: 312-235-6783

USER NAME = mokrent	DESIGNED - TOM	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - YN	REVISED -
PLOT DATE = 10/17/2018	CHECKED - MO	REVISED -
	DATE - 10/15/2018	REVISED -

BENCH MARK:

Cut cross on head wall at the SW corner of Burnham Avenue and 202nd St.
 Elevation NGVD 88: 615.47
 Northing: 1771665.569;
 Easting: 1201708.396

EXISTING STRUCTURE:

The structure (S. No. 016-1203) crossing Burnham Avenue just north of 202nd St, is a double cell concrete box culvert and was originally built in 1936. The culvert is 45'-8" in length (out-to-out headwalls). The cells are 6'-6" high by 10' wide. The structure spans East to West and carries two lanes of traffic, one northbound and one southbound. There is no guardrail or barrier present at this location.

SALVAGE:

No Salvage.

NOTES:

Precast option is not allowed.

HIGHWAY CLASSIFICATION:

F.A.U. Rte. 2943
 Functional Class: Minor Arterial
 ADT : 5800 (2014)
 DHV :
 ADTT% :
 Design Speed : 55 m.p.h.
 Posted Speed : 50 m.p.h.

DESIGN SPECIFICATIONS:

AASHTO Standard Specifications for Highway Bridges 17th edition with 2002 interims.

LOADING HS-20:

No future wearing surface will be allowed.

DESIGN STRESS:

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

INDEX OF SHEETS

S1 General Plan & Elevation
 S2 Culvert Details 1/11

LEGEND

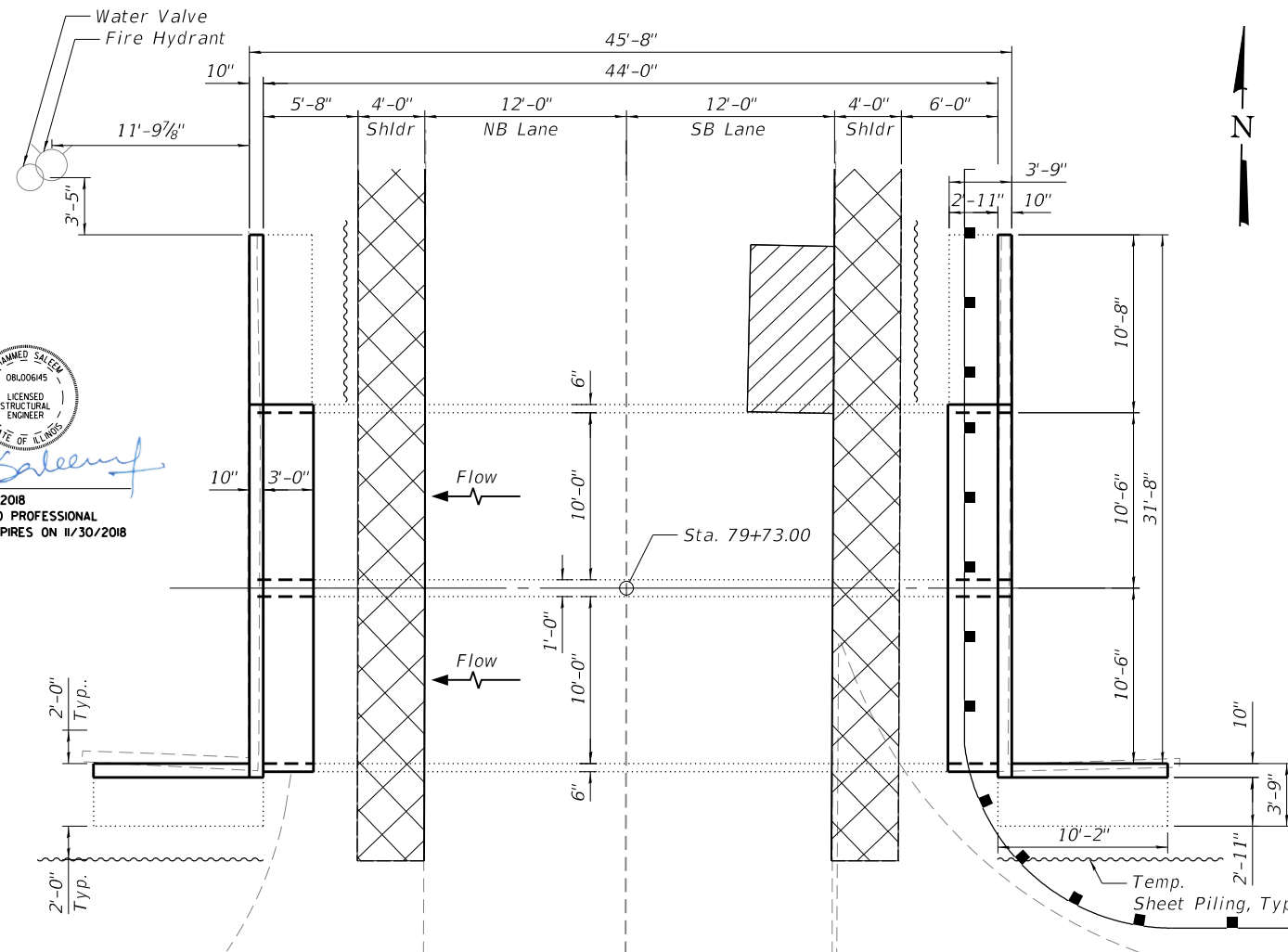
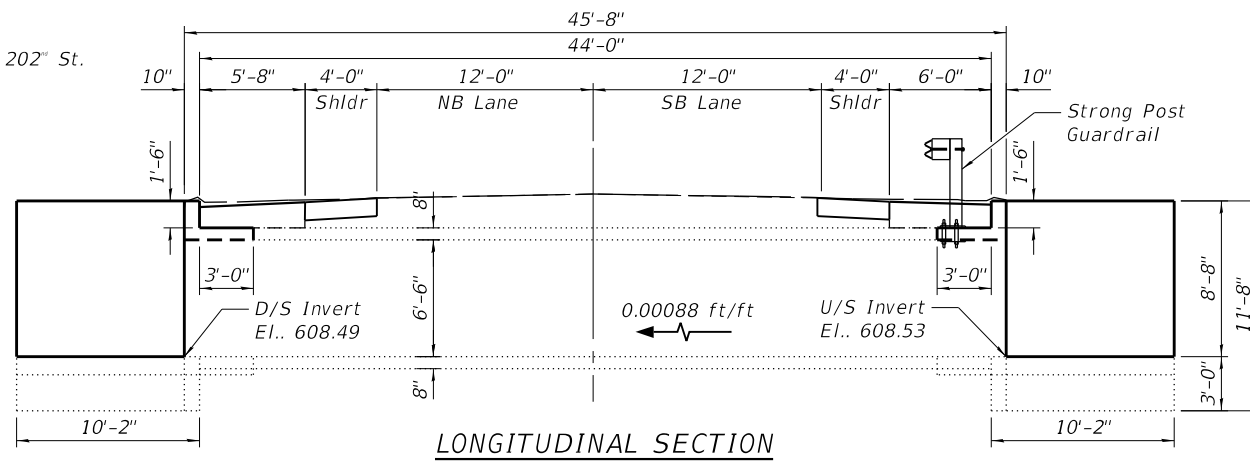
Temporary Sheet Piling

SCOPE OF WORK

1. Remove and reconstruct 3'-0" of the east and west portion of the top slab and headwall including center wall upto 1'-0" deep below bottom of top slab.
2. Remove and reconstruct all four wingwalls upto the foundation.
3. Remove and reconstruct portions of shoulder and install guardrail

TOTAL BILL OF MATERIAL

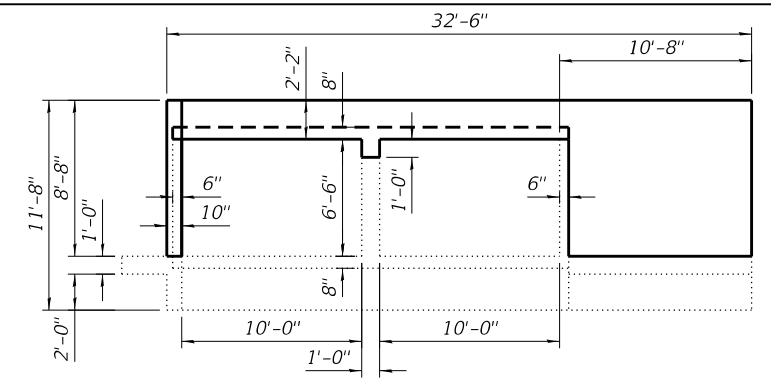
ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	18
Protective Coat	Sq. Yd.	51
Structure Excavation	Cu. Yd.	39
Reinforcement Bars, Epoxy Coated	Pound	4500
Temporary Sheet Piling	Sq. Ft.	362
Concrete Box Culverts	Cu. Yd.	18
Granular Backfill for Structures	Cu. Yd.	39



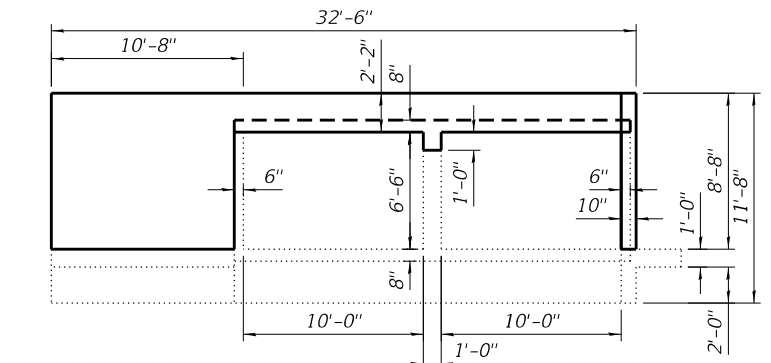
PLAN WATERWAY INFORMATION TABLE

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	149	122	122	614.6	0.0	0.0	614.6	614.6
Base	50	179	130	130	615.3	0.0	0.0	615.3	615.3
Ex. Overtop	100	190	130	130	615.5	0.0	0.0	615.5	615.5
Pr. Overtop	>100	>100							
Max. Calc.	500	219	130	130	616.3	0.0	0.0	616.3	616.3

10-yr Velocity through Existing Structure = 1.2 ft/s
 10-yr Velocity through Proposed Structure = 1.2 ft/s
 Note: Discharges & Elevations based on FIS Publication Dated 2008 and Preliminary 2017



PROPOSED STRUCTURE ELEVATION U/S

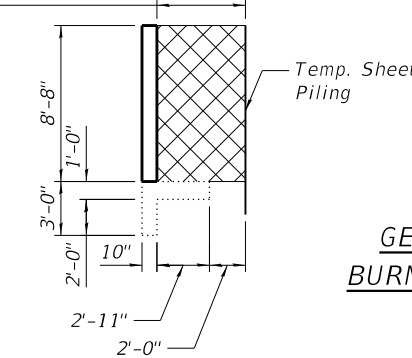


PROPOSED STRUCTURE ELEVATION D/S

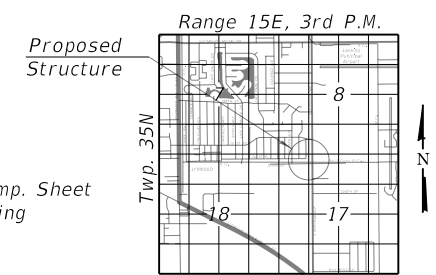
GENERAL NOTES

1. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
2. Existing reinforcement shall be cleaned and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
3. It shall be the responsibility of the contractor to divert the stream flow during construction in order to keep the construction area free of water. The method of the water diversion shall be subjected to the approval of the Engineer and the cost shall be included with the cost of concrete box culverts.
4. Reinforcement bars designated (E) shall be epoxy coated.

4'-11", Limits of Structure Excavation & Granular Backfill for Structures



TYPICAL SECTION AT WINGWALL



LOCATION SKETCH

GENERAL PLAN AND ELEVATION BURNHAM AVE. OVER NORTH CREEK

F.A.U. ROUTE 2943
 COOK COUNTY
 STATION 79+73
 STRUCTURE NO. 016-1203

MODEL: Default
 FILE NAME: P:\60618002-03_IDOT_PTB185_002_W03_BurnhamAveCulvert_62G07_01\CADD\005Sheet12_D162G07-sh1-S1_GPE.dgn
 11/14/2018 4:31:36 PM



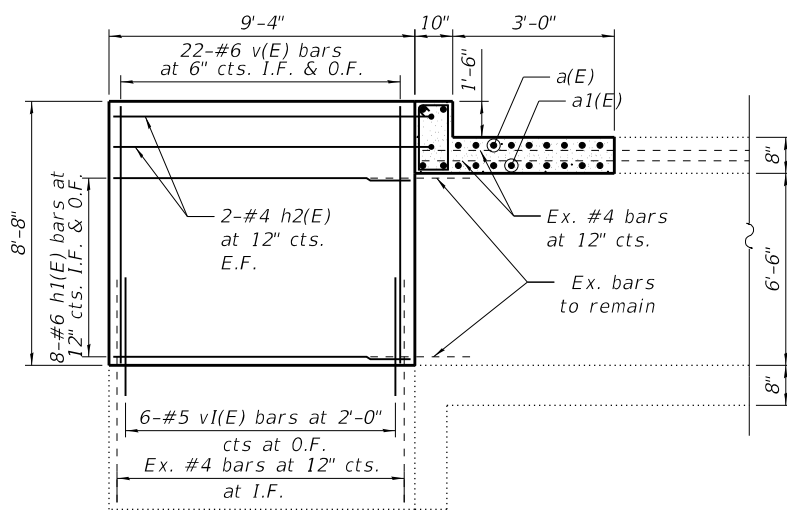
USER NAME =	DESIGNED - AWM, AM	REVISED -
PLOT SCALE =	CHECKED - MS	REVISED -
PLOT DATE =	DRAWN - AM, YM	REVISED -
	CHECKED - MS	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

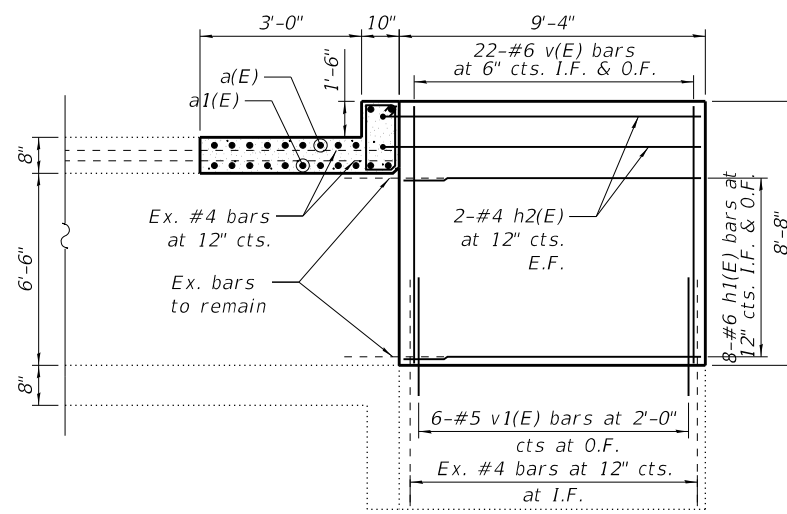
GENERAL PLAN & ELEVATION STRUCTURE NO. 016-1203

SHEET S1 OF S3 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2943	2017-063BR	COOK	17	12
CONTRACT NO. 62G07				
ILLINOIS FED. AID PROJECT				

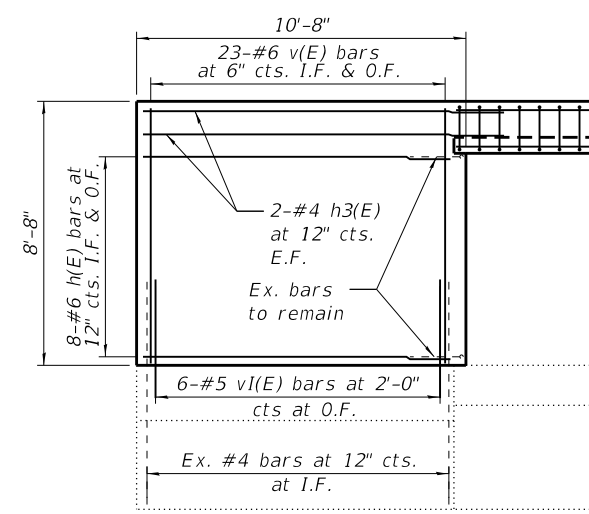


DOWNSTREAM

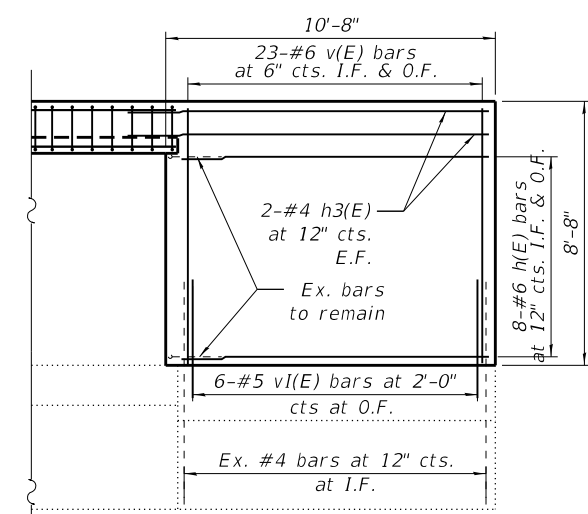


UPSTREAM

LONGITUDINAL SECTION

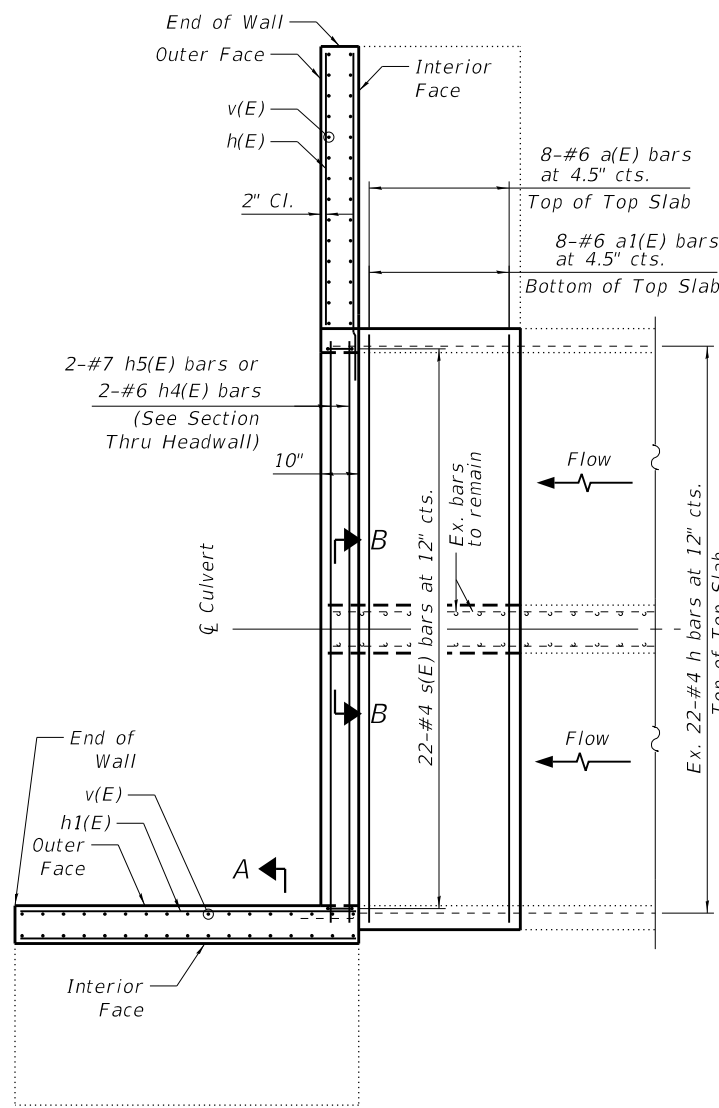


DOWNSTREAM

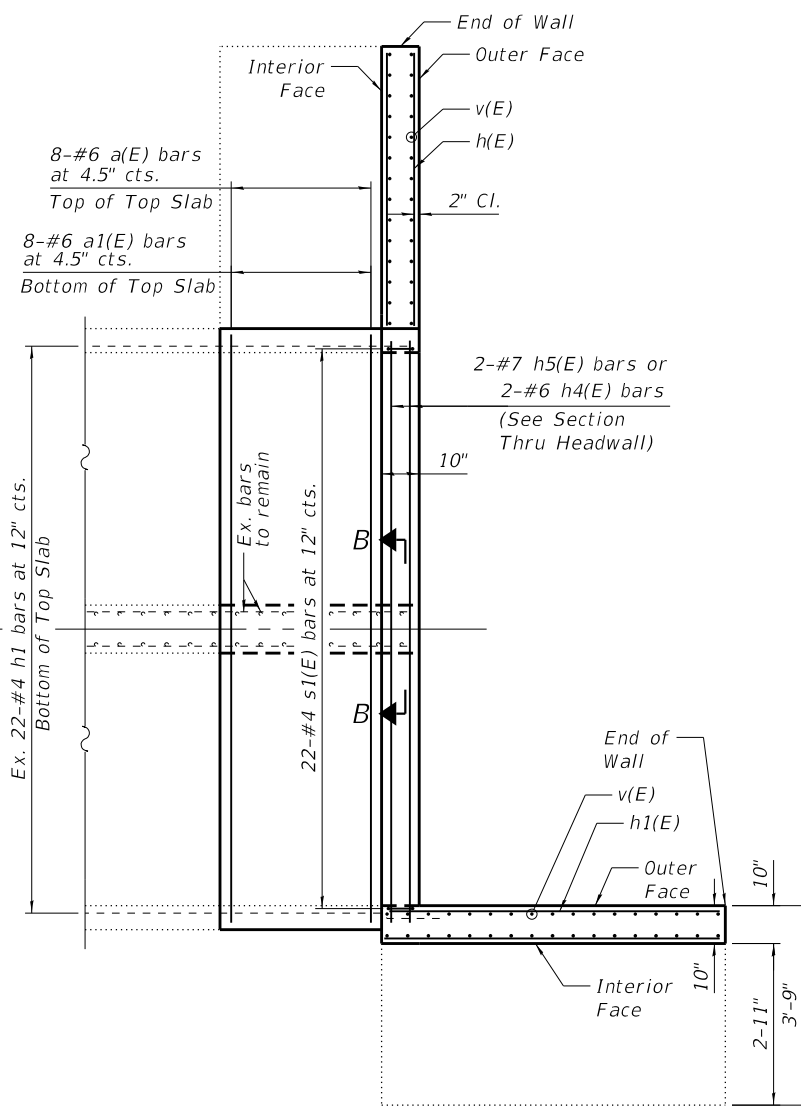


UPSTREAM

ELEVATION

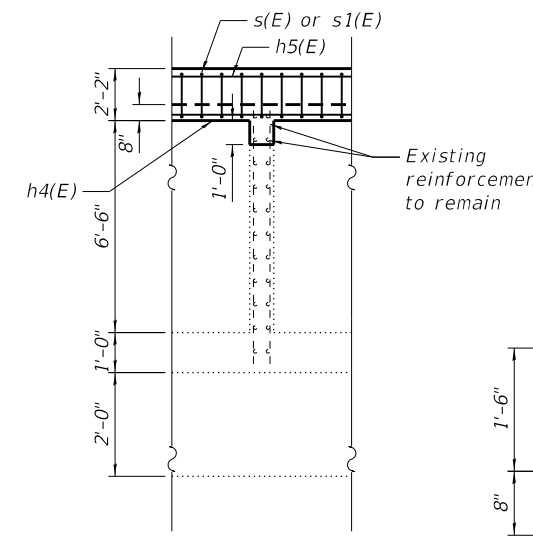


DOWNSTREAM

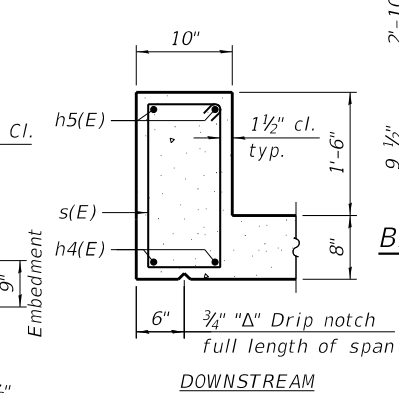
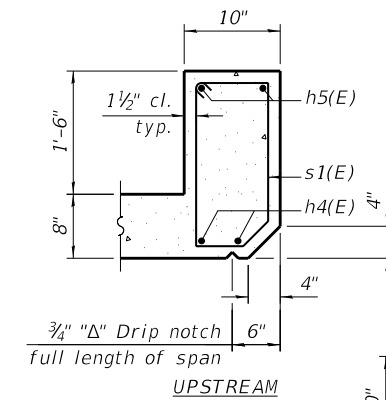


UPSTREAM

PLAN



SECTION B-B

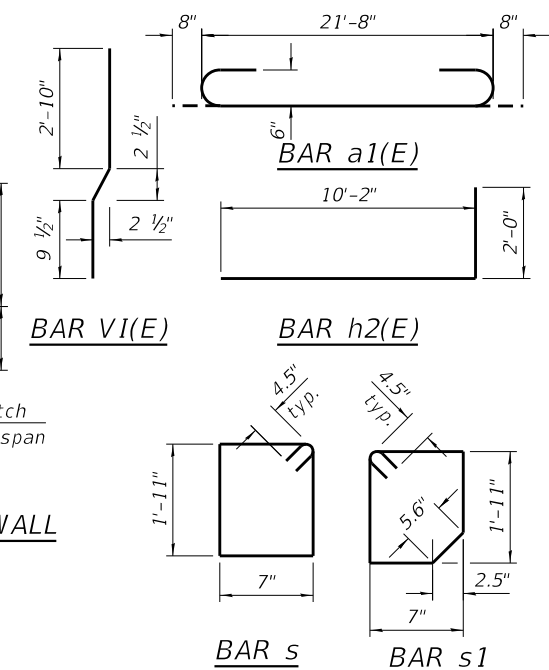


SECTION A-A

SECTION THRU HEADWALL

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	16	#6	21'-8"	—
a1(E)	16	#6	23'-0"	⌋
h(E)	32	#4	10'-4"	—
h1(E)	32	#4	9'-10"	—
h2(E)	8	#4	12'-2"	—
h3(E)	8	#4	12'-2"	—
h4(E)	4	#6	21'-8"	—
h5(E)	4	#7	21'-8"	—
s(E)	22	#4	5'-9"	⌋
s1(E)	22	#4	5'-1"	⌋
v(E)	180	#6	8'-6"	—
v1(E)	24	#5	3'-11"	—
Concrete Box Culverts			Cu. Yd.	18
Reinforcement Bars, Epoxy Coated			Pound	4500



Notes:

1. Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

E.F. : Each Face; O.F. : Outer Face; I.F. : Interior Face

MODEL: Default
FILE NAME: N:\160618002\03_IDOT_PTB185_002_WO3_BurnhamAveCulvert_62G07_101\CADD\005Sheet13_D162G07-shs-52_Culvert_Details_Ldgn



111 S. Wacker Drive,
Suite 3910
Chicago, IL 60606
Ph: 312-235-6783

USER NAME =	DESIGNED - AWM, AM	REVISED -
PLOT SCALE =	CHECKED - MS	REVISED -
PLOT DATE =	DRAWN - AM, YM	REVISED -
	CHECKED - MS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS I
STRUCTURE NO. 016-1203

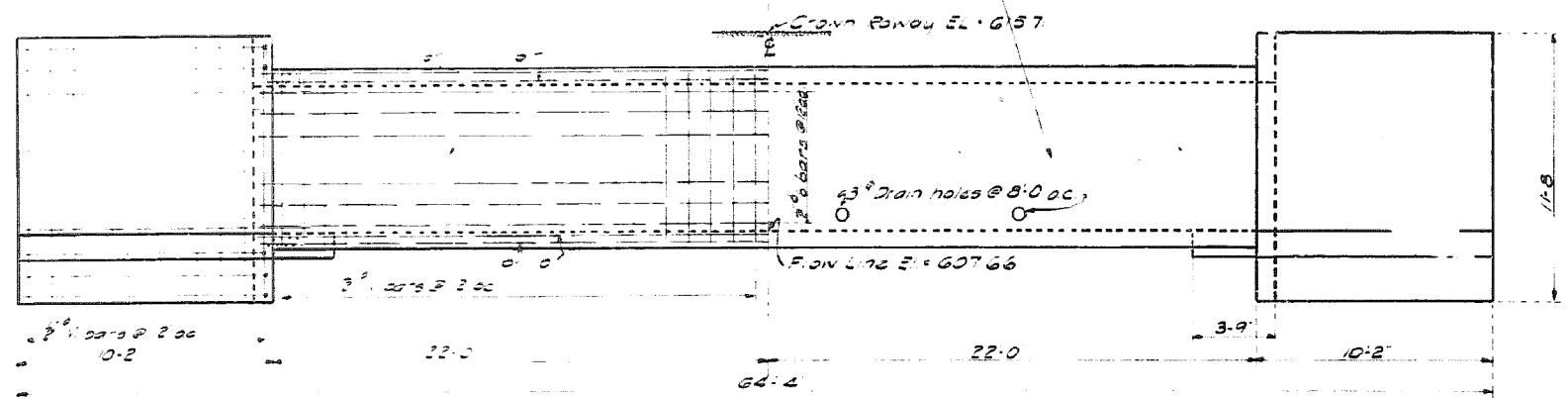
SHEET S2 OF S3 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2943	2017-063BR	COOK	17	13
CONTRACT NO. 62G07				
ILLINOIS FED. AID PROJECT				

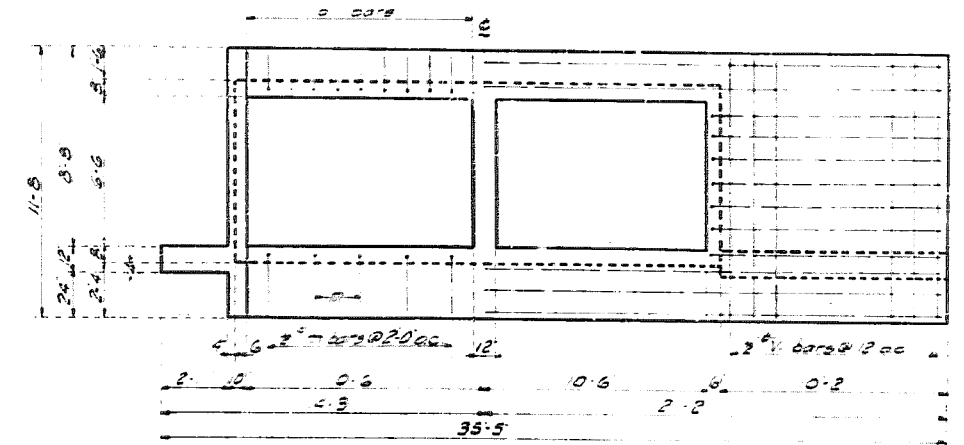
DEPARTMENT OF HIGHWAYS
COOK COUNTY

State Aid Project No. 69
Route No. 232
Year 22
No. 22
069-04

NOTE: Curves for curves from side ditches to be determined by engineer in field



SHOWING STEEL
SHOWING OUTLINE
ELEVATION



END ELEVATION

NOTE: m bars in downstream heading 6"

FOR
INFORMATION
ONLY

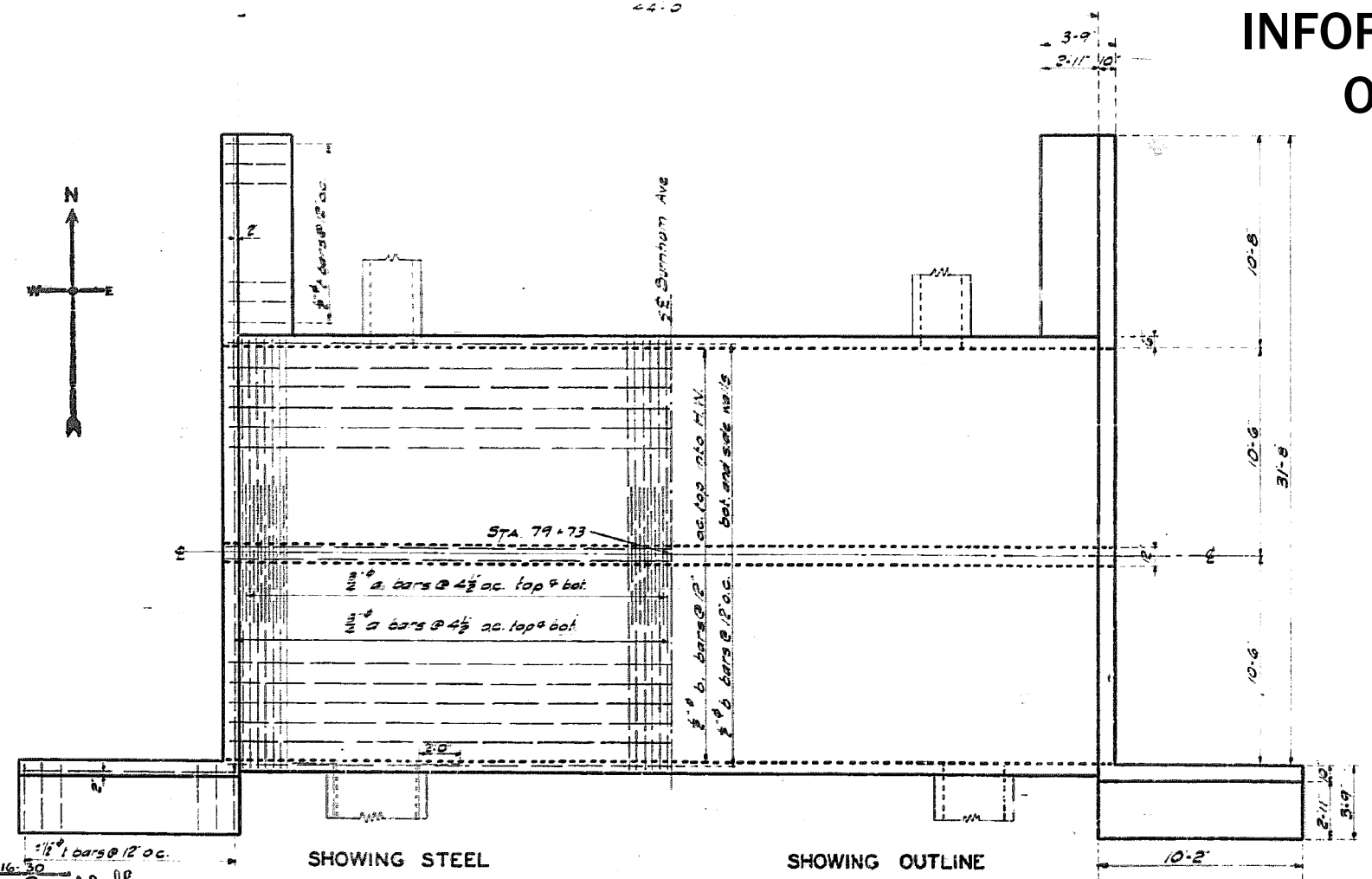
Bill of Material

Bar No	Size	Length
1	238	23-6
2	234	7-0
3	28	23-6
4	24	25-0
5	28	11-8
6	20	2-0
7	122	7-6
8	40	11-3
9	40	2-6
10	10	5-0

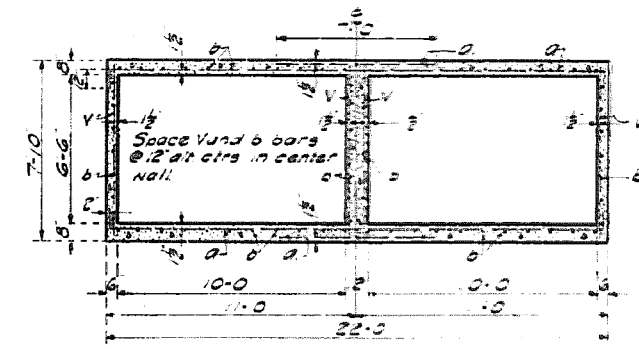
Steel lbs 47.9
Conc Cu Yds .05

NOTE

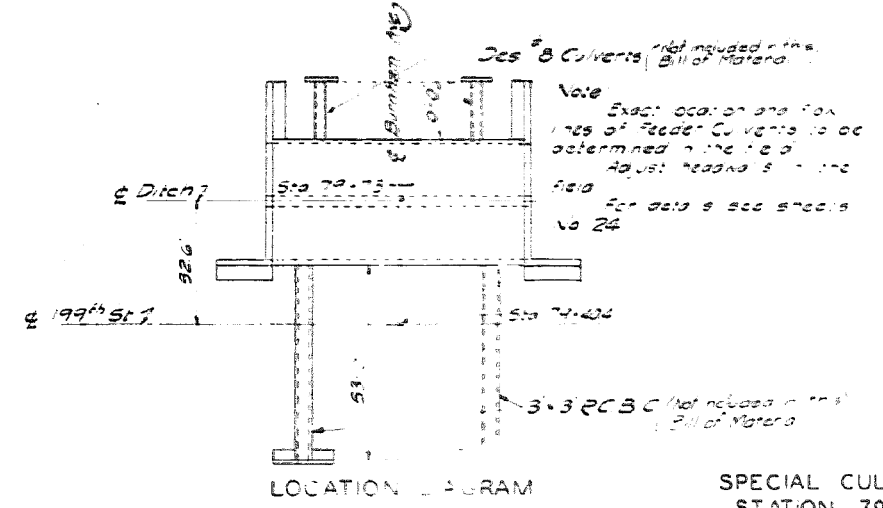
The exposed ends of open joints in hand rail, slabs, girders, etc. shall be beveled by use of 1/4-inch triangular moulding for all other exposed ends use 1/2-inch triangular moulding. All reinforcing bars shall be either new bright steel or rust steel conforming to the requirements specified in Article 474 of the County Specifications for Highways and Bridges. All bars must be obtained in full lengths indicated in the Bill of Material. All reinforcing steel shall be securely wired in position before concrete is placed. Class "C" Concrete to be used throughout except as noted. Proportions 1-2-3. Place 3 inch tie bars a 5 ft. on. Use abutment band wing walls one foot above ground line at face of abutment. Abutments and wing walls to be constructed around existing ties, sewers, pipes or conduits, as directed by the Engineer in field. The wing walls may, at the option of the Engineer be constructed at any angle with the face of the abutment. Class "F" Concrete to be used in all footings listed in Bill of Material as Class "A" Concrete Proportions 1-2-3-4. Height of headwall to be adjusted in field to extend 12 inches above shoulder line. Top of headwall to be constructed parallel to grade line of 1/4 inch measurement.



SHOWING STEEL
SHOWING OUTLINE
PLAN



TYPICAL SECTION



LOCATION DIAGRAM

SPECIAL CULVERT
STATION 79+73
SECTION 3161-15 D

APPROVED 8-16-30
M. C. Shell
SECT. COUNTY ENGR. OF HIGHWAYS
COMPUTED W. E. Dyer
DRAWN H. E. Dyer
CHECKED James F. Kelly

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLAN
STRUCTURE NO. 016-1203

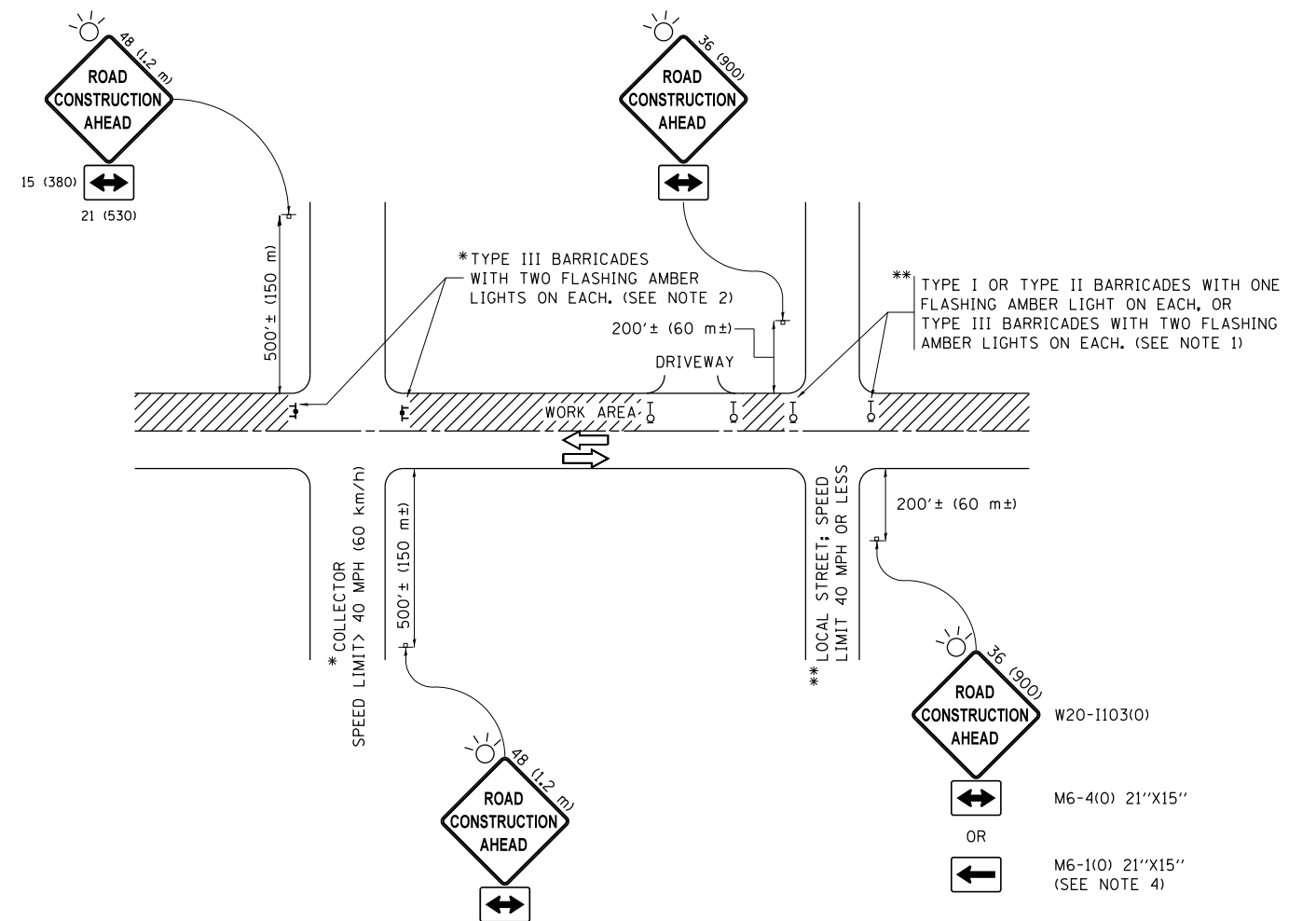
FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2943	2017-063BR	COOK	17	14

CONTRACT NO. 62G07

SHEET S3 OF S3 SHEETS

ILLINOIS FED. AID PROJECT

MODEL: Default
FILE NAME: N:\160618002-03_IDOT_PTB185_002_W03_BurnhamAveCulvert_62G07_101\CADD\005Sheet14_D162G07-sh3-S3_Existing_Plan.dgn
10/17/2018 10:57:06 AM



NOTES:

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 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. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. 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).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

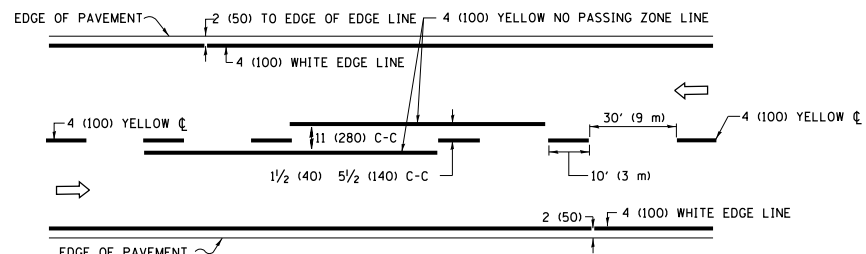
FILE NAME =	USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
p:\11\084EBIDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist 1\084EBIDINTEG\CADD\to\CAD\sheets\tc10.dgn	DRAWN	CHECKED -	REVISED - T. RAMMACHER 01-06-00
Default	PLOT SCALE = 50.000' / in.	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 9/15/2016		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

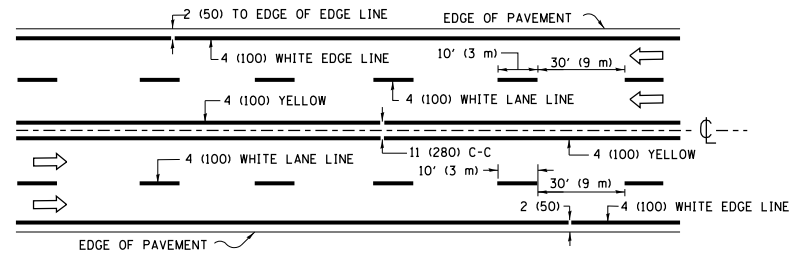
**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

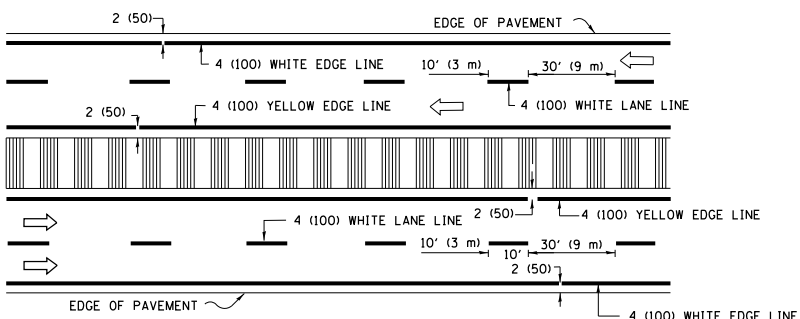
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2943	2017-063BR	COOK	17	15
TC-10		CONTRACT NO. 62G07		
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

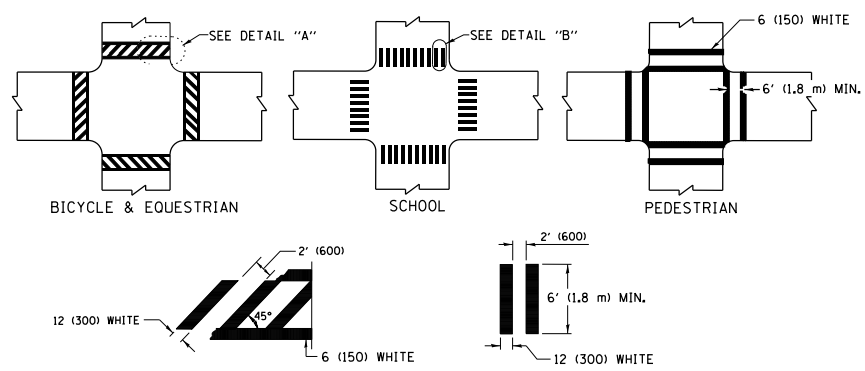


MULTI-LANE UNDIVIDED



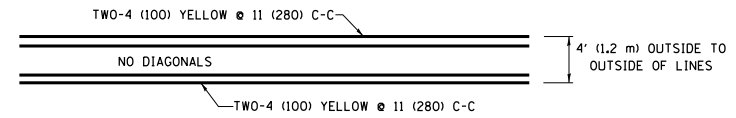
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

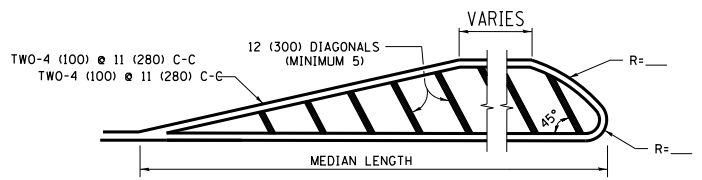


TYPICAL CROSSWALK MARKING

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

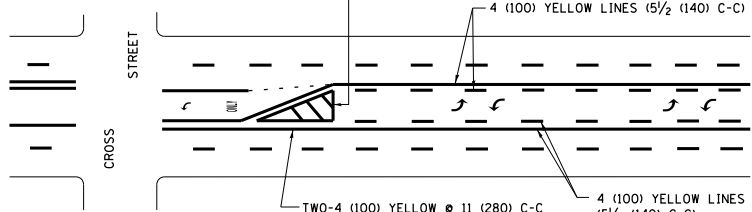


4' (1.2 m) WIDE MEDIANS ONLY



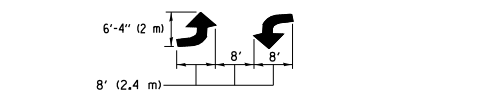
MEDIANS OVER 4' (1.2 m) WIDE

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))



MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING

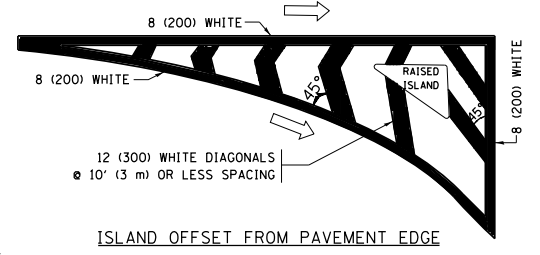
A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



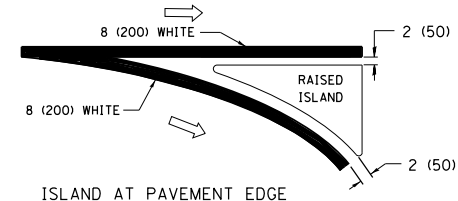
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* 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".

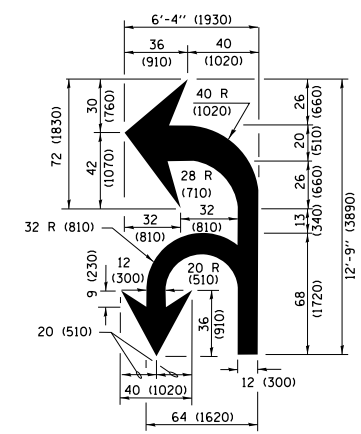


ISLAND OFFSET FROM PAVEMENT EDGE

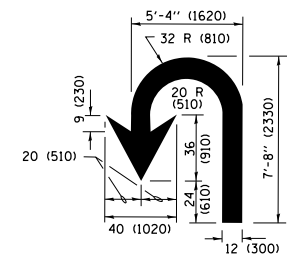


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

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

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	5 1/2 (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 5 1/2 (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.

FILE NAME = W:\diststd\22x34\to13.dgn	USER NAME = luyso	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
Default	PLOT SCALE = 50.000' / in.	DRAWN -	REVISED - C. JUCIUS 07-01-13
	PLOT DATE = 6/23/2017	CHECKED -	REVISED - C. JUCIUS 12-21-15
		DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2943	2017-063BR	COOK	17	16
TC-13		CONTRACT NO. 62G07		
ILLINOIS FED. AID PROJECT				

ROUTE MARKERS

FOR U.S. ROUTES
M1-40-2424

FOR ILLINOIS ROUTES
M1-50-2424

R.R., UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-2-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

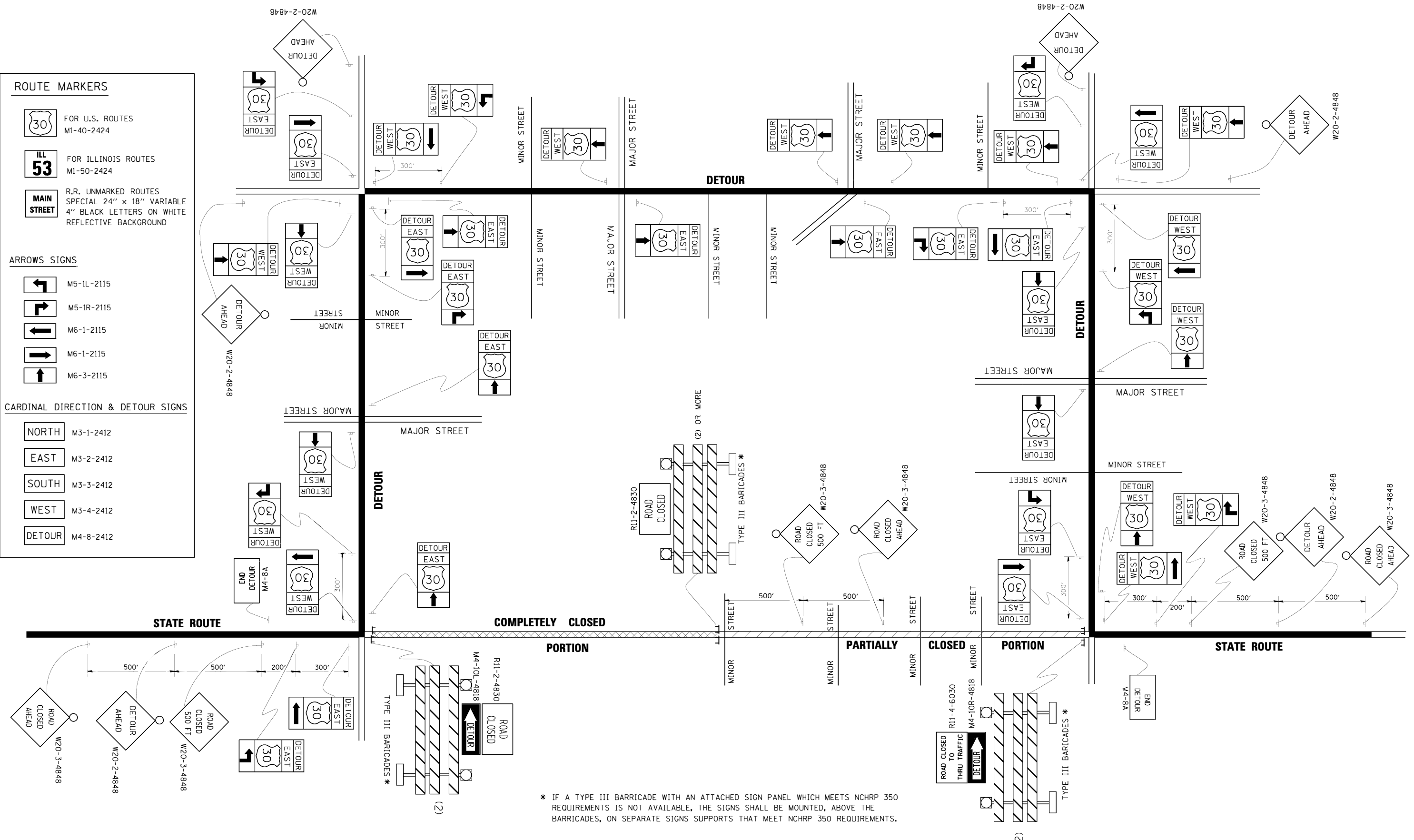
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

FILE NAME = e:\p\work\p\WID\DRIVAKOS\N\108315\1421.dgn	USER NAME = drivakosgn	DESIGNED - DRAWN -	REVISED - 10-18-02 REVISED - R. BORO 09-14-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS			F.A.U. RTE. 2943	SECTION 2017-063BR	COUNTY COOK	TOTAL SHEETS 17	SHEET NO. 17
PLOT SCALE = 49.9999' / IN.	CHECKED -	REVISED -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	TC-21 CONTRACT NO. 62G07			
PLOT DATE = 9/14/2009	DATE -	REVISED -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							