GENERAL NOTES:

ROADWAY:

- 1. UTILITY LOCATIONS SHOWN ON THESE PLANS MAY NOT BE CORRECT OR COMPLETE. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE RESPECTIVE UTILITIES OF THE CITY OF CHICAGO. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "CLIAM" (CHICAGO UTILITY ALERT NETWORK) AT 312-744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES (48 HOUR NOTIFICATION IS REQUIRED). CONTACT THE DEPARTMENT OF WATER MANAGEMENT PERMIT SECTION AT (312) 747-7893 FOR WATER AND SEWER LOCATIONS.
- 2. 10 FOOT TRANSITION LENGTHS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTERS AND MEDIANS IN THE FIELD UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED LITEMS OF WORK SPECIFIED.
- 3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 4. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PERCAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING BESIDENTIAL AREAS.
- 5. ON STATE STANDARD 483001, SUBBASE GRANULAR MATERIAL, TYPE B, 24" SHALL BE USED AS THE IMPROVED SUBGRADE. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE UNDER THE SHOULDER SHALL BE INCLUDED IN THE COST PER SQ YARD OF "SUB-BASE GRANULAR MATERIAL, TYPE B, 24"".
- 6. USE NO. 6 EPOXY-COATED TIE BARS CONFORMING TO ARTICLE 1006.10(B)(2) OF THE STANDARD SPECIFICATIONS FOR LONGITUDINAL CONSTRUCTION JOINT AS SHOWN ON IDOT STANDARD 420001 AND FOR TYING THE CURB AND GUTTER SECTIONS TO THE MAINLINE SHOULDERS AND PAVEMENT AS SHOWN ON THE PLANS. THE TIE BARS WILL NOT BE PAID FOR SEPARATELY. TIE BARS USED FOR LONGITUDINAL CONSTRUCTION JOINTS SHALL BE INCLUDED IN THE COST OF CONT REINFORCED PCC PAVEMENT, 14". TIE BARS USED WITH CURB AND GUTTER SHALL BE INCLUDED IN THE COST OF THE COMBINATION CONCRETE CURB AND GUTTER OF THE TYPE SPECIFIED.
- 7. USE NO. 8 EPOXY-COATED TIE BARS IN LIEU OF NO. 6 BARS, CONFORMING TO ARTICLE 1006.10(B)(2) OF THE STANDARD SPECIFICATIONS FOR LONGITUDINAL CONSTRUCTION JOINT AS SHOWN ON IDOT STANDARD 420001 AND FOR TYING SHOULDER SECTIONS TO THE MAINLINE PAVEMENT, AS SHOWN ON THE PLANS, TIE BARS USED FOR LONGITUDINAL CONSTRUCTION JOINTS SHALL BE INCLUDED IN THE COST OF THE CONTINUOUSLY REINFORCED PCC PAVEMENT, 14". TIE BARS USED WITH THE SHOULDERS SHALL BE INCLUDED IN THE COST OF PCC SHOULDERS, 14.
- 8. FENCE REMOVAL SHALL BE CONSIDERED AS PART OF CLEARING.
- 9. THE VARIATION IN WIDTH OF THE COMBINATION CONCRETE CURB AND GUTTER AS SHOWN ON THE PLANS SHALL BE INCLUDED IN THE COST OF COMBINATION CONCRETE CURB AND GUTTER OF THE TYPE SPECIFIED.
- 10. COMBINATION CURB AND GUTTER REMOVAL WILL BE MEASURED PER LINEAL FOOT. THE REMOVAL OF THE EXISTING BITUMINOUS OVERLAY OF THE GUTTER WILL NOT BE MEASURED FOR PAYMENT BUT IS INCLUDED IN THE CONTRACT UNIT PRICE FOR COMBINATION CURB AND GUTTER REMOVAL.
- 11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT NO GAP REMAINS BETWEEN PROPOSED FENCING OR WHERE PROPOSED FENCING TERMINATES AND EXISTING FENCE REMAINS IN PLACE.
- 12. THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS TO PROTECT AND PROVIDE ACCESS TO ABUTTING PROPERTY, UTILITIES, PEDESTRIANS, AND VEHICULAR TRAFFIC.
- 13. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED, THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS. THE ENGINEER OR AND AUTHORIZED SURVEYOR AGENT WILL WITNESS OR OTHERWISE REFERENCE AND RESET MONUMENTS AS NECESSARY. ALL PROPERTY CORNERS EXCEPT THOSE WITHIN AREAS WHERE THE SCHEDULE, IF PROVIDED, SHOWS PLACEMENT OF R.O.W. MARKERS SHALL REMAIN UNDISTURBED.
- 14. ALL ELEVATIONS SHOWN ARE BASED ON THE CHICAGO CITY DATUM. THE CONVERSION EQUATION FROM CCD TO NAVD 88 IS: NAVD 88 ELEVATION = CCD + 579.19.
- 15. THE QUANTITY FOR BITUMINOUS MATERIALS (PRIME COAT) WAS DETERMINED USING AN APPLICATION RATE OF 0.0004 TONS/SQ YD.
- 16. THE QUANTITY FOR AGGREGATE (PRIME COAT) WAS DETERMINED USING AN APPLICATION RATE OF 0.002 TONS/SQ YD.
- 17. THE LOCATION OF VARIOUS ITEMS SUCH AS PAVEMENT, BARRIER WALLS, AND DRAINAGE STRUCTURES BUILT IN CONTRACTS UNDER CONSTRUCTION DURING THE PREPARATION OF THESE PLANS IS BASED ON THE PUBLISHED CONTRACT PLAN DRAWINGS AVAILABLE DURING DESIGN. THE CONTRACTOR MUST FIELD VERIFY LIMITS, LOCATIONS AND ELEVATIONS OF THESE PREVIOUSLY CONSTRUCTED ITEMS.
- 18. THE CONTRACTOR IS ALERTED THAT THERE ARE EXISTING CTA UTILITY FACILITIES WITHIN, ADJACENT TO, AND CROSSING UNDER THE EXPRESSWAY FROM THE FRONTAGE ROADS TO THE CTA OPERATING AREA. THE EXACT LOCATION OF THESE FACILITIES IS NOT KNOWN. THE CONTRACTOR MUST CONTACT THE CTA AT 312-681-3860 FOR LOCATIONS OF THESE FACILITIES BEFORE PROCEEDING WITH ANY WORK WITHIN OR ADJACENT TO THE CTA OPERATING AREA.

- 18. THE CONCRETE MEDIAN SURFACE, 6" (SPECIAL) AT GUARDRAIL LOCATIONS SHALL USE THE INTEGRAL RED CONCRETE WITHOUT THE BRICK PATTERN FINISH.
- 19. FINE GRADING OF THE EXISTING GRANULAR SUB-BASE CAP, AT LOCATIONS TO REMAIN, SHALL TAKE PLACE TO ENSURE A PROPER ELEVATION IS ACHIEVED. THE REMOVAL OR PLACEMENT OF MATERIAL TO ACHIEVE THIS ELEVATION SHALL BE INCLUDED AS PART OF THE FINE GRADING. FINE GRADING OF THE EXISTING GRANULAR SUB-BASE CAP SHALL NOT BE PAID FOR SEPARATELY, BUT INCLUDED IN THE COST OF STABILIZED SUB-BASE 6".

DRAINAGE AND UTILITIES:

- 1. ALL PROPOSED LATERAL STORM SEWERS SHALL BE INSTALLED AT A MINIMUM OF 1% SLOPE UNLESS OTHERWISE INDICATED. CONNECTIONS TO EXISTING SEWERS OR STRUCTURES WILL BE INCLUDED WITH THE STORM SEWERS PAY ITEM.
- 2. ALL SEWERS TO BE ABANDONED SHALL BE FILLED WITH GROUT SLURRY AND PLUGGED AT THE UPSTREAM END.
- 3. THE CONTRACTOR SHALL USE TYPE A CATCH BASINS WITH FLAT SLAB TOP WHEREVER NECESSARY TO AVOID CONFLICTS WITH EXISTING UTILITIES.
- 4. PIPE UNDERDRAIN 6" (SPECIAL) SHALL BE USED FOR ALL PROPOSED UNDERDRAIN CONNECTIONS INTO EXISTING/PROPOSED DRAINAGE STRUCTURES.
- 5. ALL SEWER PLUGS WILL BE INCLUDED IN THE COST OF PLUG AND ABANDON EXISTING PIPE PAY ITEM.
- 6. STORM SEWER LENGTHS AND GRADES ARE CALCULATED FROM CENTER TO CENTER OF DRAINAGE STRUCTURES.
- 7. TOP OF FRAME ELEVATIONS ON DRAINAGE STRUCTURES SHALL BE MODIFIED TO MEET FINISHED SHOULDER AND CURB AND GUTTER FLOWLINE ELEVATIONS,
- 8. GRATES SHALL BE INSTALLED WITH THE VANES ORIENTED AS DIRECTED BY THE RESIDENT ENGINEER.
- 9. THE INVERT ELEVATIONS OF UNDERDRAIN CONNECTIONS TO THE EXISTING AND PROPOSED DRAINAGE STRUCTURES SHOWN SHALL BE DETERMINED BY THE CONTRACTOR BASED ON A MINIMUM LATERAL CONNECTING SLOPE OF 1%.
- 10. FOR CLARITY, PIPE UNDERDRAINS IN THE PLAN VIEW ARE NOT DRAWN IN THE EXACT INSTALLATION LOCATION, SEE TYPICAL SECTIONS AND DRAINAGE DETAILS FOR EXACT PIPE UNDERDRAIN LOCATION.
- 11. THE CONTRACTOR SHALL MAINTAIN THE SURFACE DRAINAGE OF ALL ROADWAYS DURING CONSTRUCTION OF THIS PROJECT. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTORS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS, INLETS AND CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE THE SAME. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL INSTALLATION IS COMPLETE INCLUDING PAVEMENT. THIS WORK SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT.
- 12. ALL REFERENCES IN THE PLANS TO STABILIZED SUB-BASE 6" SHALL BE INTERPRETED TO MEAN STABILIZED SUB-BASE 4 1/2".

PROJECT COMMITMENTS:

IDOT WILL CONTINUE TO COORDINATE WITH THE CITY OF CHICAGO DEPARTMENT OF TRANSPORTATION (CDOT) AND THE CHICAGO TRANSPORTATION AUTHORITY (CTA) USING THE "DAN RYAN EXPRESSWAY LANDSCAPE GUIDELINES", PREPARED BY CDOT AS GUIDELINES THROUGHOUT PHASE II OF THE PROJECT (PREPARATION OF CONTRACT PLANS) ON THE AESTHETICS AND LANDSCAPING TREATMENTS.

- 2. THE ILLINOIS STATE GEOLOGICAL SURVEY (ISGS) CONDUCTED A PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT (PESA) IN WHICH THEY ASSESSED A HIGH RISK FOR THE OCCURRENCE OF HAZARDOUS MATERIALS. A SPECIAL WASTE WAVER HAS BEEN APPROVED WHICH ALLOWS DESIGN APPROVAL TO BE GRANTED PRIOR TO THE COMPLETION OF SPECIAL WASTE STUDIES. THERE ARE STILL OUTSTANDING SPECIAL WASTE ISSUES THAT MUST BE ADDRESSED. THE ENVIRONMENTAL STUDIES UNIT SHOULD BE CONTACTED AT (847) 705-4101 TO DISCUSS THESE ISSUES. TO DETERMINE THE IMPLICATIONS OF FUTURE DESIGN CHANGES, PLEASE REFER TO THE PESA REVIEW COVER MEMOS FOR ISGS #1106A, AS DEPICTED IN EXHIBIT 7 SPECIAL WASTE WAIVER IN THE CLASS OF ACTION DETERMINATION (ECAD).
- 3. IDOT HAS COMMITTED TO ADDRESS CONSTRUCTION RELATED AIR QUALITY CONCERNS. THESE STRATEGIES INCLUDE REQUIRING DETAILED DUST CONTROL PLANS, REQUIRING THE USE OF CLEANER BURNING DIESEL FUELS ON CERTAIN DIESEL POWERED CONSTRUCTION EQUIPMENT AND/OR THE INSTALLATION OF EXHAUST EMISSION SCRUBBERS, AND THE REDUCTION OF CONSTRUCTION EQUIPMENT IDLING TIMES. THESE STRATEGIES ARE ADDRESSED IN SPECIAL PROVISIONS INCLUDED IN THIS CONTRACT AND DEVELOPED FOR THE DAN RYAN RECONSTRUCTION PROJECT.
- 4. IDOT HAS COMMITTED TO REDUCE TIRE-PAVEMENT HIGHWAY TRAFFIC NOISE FOR THE FINISHED PROJECT BY INCLUDING A SPECIAL APROVISION TO INCORPORATE VARIABLE WIDTH AND SKEWED "TINING" OF THE NEW CONCRETE PAVEMENT.
- 5. IDOT REQUIRES THE PREPARATION (BY THE CONTRACTOR) OF PRE-CONSTRUCTION PHOTO AND/OR VIDEO LOGS OF STRUCTURES DIRECTLY ADJACENT TO THE HIGHWAY R.O.W. TO DOCUMENT STRUCTURAL CONDITION PRIOR TO DAN RYAN RECONSTRUCTION,

F.A.I. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
90/94	*	COOK	312	3
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^	NAME	DATE	
/1\	ADDENDUM 1	7/27/06	

ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

GENERAL NOTES & PROJECT COMMITMENTS

SCALE: NONE
DATE: June 9, 2006

DRAWN BY: NJH
CHECKED BY: RMG

SUMMARY OF QUANTITIES

				90% FEDERAL / 10% STATE								
				URBAN	RETAINI	NG WALL	BRI	DGE	CICHING	IGNING SAFETY LIGHTING S		СООТ
				DO YOU'V	016-W923	016-W931	STR NO 016-0142	STR NO 016-1148	SIGNING	SAFEIT LIGHT	ING SURVEILLANCE	LIGHTING
CODE NO	. ITEM	UNIT	QUANTITY	J000	Y007				Y002-1C	SFTY-3N Y030	1E Y032-1F	Y030- <i>I€</i>
20101000	TEMPORARY FENCE	FOOT	847	847								
2020010	EARTH EXCAVATION	CU YD	(35,099	35,099	Δ							
2020041	EARTH EXCAVATION (SPECIAL)	CU YD	103	103								
2020120	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	2,426	2,426								
2070022	POROUS GRANULAR EMBANKMENT	CU YD	184		73	111						
2070042	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	1,500	1,500								
2080015	TRENCH BACKFILL	CU YD	3,102.0	3,102.0								
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	42,709	42,709								
* 21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	4,178	4,178								
# 21101645	TOPSOIL FURNISH AND PLACE, 12"	SO YD	8,759	8,759								
* 21101825	COMPOST FURNISH AND PLACE, 6"	SQ YD	8,759	8,759								
4 2500021	SEEDING, CLASS 2A	ACRE	2.08	2.08								
¥ 2500040	NITROGEN FERTILIZER NUTRIENT	POUND	240	240								
± 2500050	PHOSPHORUS FERTILIZER NUTRIENT	POUND	236	236								
* 2500060	POTASSIUM FERTILIZER NUTRIENT	POUND	234	234								
NP 2500075	MOWING	ACRE	2.89	2.89								
\$ 2500180	SEEDING, CLASS 4 (MODIFIED)	ACRE	0.14	0.14								
4 25001820	SEEDING, CLASS 5 (MODIFIED)	ACRE	0.35	0.35								
2500201	SEEDING, CLASS 4A (MODIFIED)	ACRE	0.35	0.35								
25100636	EROSION CONTROL BLANKET	SQ YD	12,937	12,937								
* 2520020	SUPPLEMENTAL WATERING	UNIT	310.8	310.8								
2800025	TEMPORARY EROSION CONTROL SEEDING	POUND	7,626	7,626								
2800030	TEMPORARY DITCH CHECKS	EACH	1	1								
2800051	INLET FILTERS	E ACH	169	169								
31101810	SUB-BASE GRANULAR MATERIAL, TYPE B 12"	SQ YD	4,983	4,983								
31101860	SUB-BASE GRANULAR MATERIAL, TYPE B 24"	SO YD	37,727	37,727								<u> </u>
4060020	BITUMINOUS MATERIALS (PRIME COAT)	TON	17.5	17.5								
4060030	AGGREGATE (PRIME COAT)	TON	85.6	85.6								
42001300	PROTECTIVE COAT	SQ YD	47,426	47,426								
42100380	CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 14"	SQ YD	29,253	29,253								
L		l	1	1		l	<u> </u>	Ļ	L			

* DENOTES SPECIALTY ITEMS ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES) SUMMARY OF QUANTITIES SCALE: NONE DRAWN BY: NJH DATE: June 9, 2006

NP= NON-PARTICIPATING

CTE | AECOM

DRev. 8-21-06

CHECKED BY: RMG

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SUMMARY OF QUANTITIES

İ						-	90% FED	ERAL / 1	O% STATE	_				
					URBAN	1	NG WALL	BRI	DGE	CICNING	NING SAFETY LIGHTING SURVEILLA		CHONCII) ANCE	CDOT
					ROADWAY	016-W923	016-W931	STR NO 016-0142	STR NO 016-1148	SIGNING	SAFEIT	LIGHTING	SURVEILLANCE	LIGHTING
	CODE NO.	ITEM	UNIT	QUANTITY	1	Y007		SFTY-ZA	SFTY-2A	Y002-1C	SFTY-3N	Y030-1E	Y032-1F	Y030- <i>IE</i>
	70300520	PAVEMENT MARKING TAPE, TYPE 111 4"	FOOT	42,408	42,408									
,	70300530	PAVEMENT MARKING TAPE, TYPE 111 5"	FOOT	7,213	7,213							····		
	70300550	PAVEMENT MARKING TAPE, TYPE III 8"	FOOT	11,653	11,653									
	70300560	PAVEMENT MARKING TAPE, TYPE III 12"	FOOT	1,563	1,563									
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	30,530	30,530									
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	5,580	5,580									
•	72000100	SIGN PANEL-TYPE 1	SQ FT	102.5						102.5				
•	72000200	SIGN PANEL-TYPE 2	SQ FT	112.6	-					112.6				
•	72000300	SIGN PANEL - TYPE 3	SO FT	871						871				
•	72400200	REMOVE SIGN PANEL ASSEMBLY-TYPE B	EACH	4						4				
•	72400330	REMOVE SIGN PANEL-TYPE 3	SO FT	226						226	white the filters are represented to the filters and the filters are			
•	72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	652						652				
•	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	90.5						90.5				
•	73000100	WOOD SIGN SUPPORT	FOOT	98						98				
•	73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	9						9				
•	73300100	OVERHEAD SIGN STRUCTURE - SPAN, TYPE 1-A (4'-0" X 4'-6")	FOOT	64						64				
•	73300300	OVERHEAD SIGN STRUCTURE - SPAN, TYPE III-A (5'-0" X 7'-0")	FOOT	66						66				
•	73302210	OVERHEAD SIGN STRUCTURE -CANTILEVER, TYPE III-C-A(36" X 7'-0")	FOOT	32.25						32.25				
•	73304000	OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	FOOT	16						16				
•	73305000	OVERHEAD SIGN STRUCTURE WALKWAY	FOOT	107						107				
•	73400100	CONCRETE FOUNDATIONS	Cu YD	1.4						1.4				
•	73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	(50.2)	Δ				(50:2	<u> </u>			
*	73600200	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	EACH	3						3				
•	73700100	REMOVE GROUND-MOUNTED SIGN SUPPORT	EACH	2						2				
•	73700200	REMOVE CONCRETE FOUNDATION - GROUND MOUNT	EACH	2						2				
•	73700300	REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	3						3				
*	78008200	POLYUREA PAVEMENT MARKING TYPE 1 - LETTERS & SYMBOLS	SQ FT	199.7	199.7									
*	78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	39,645	39,645		-							
*	78008220	POLYUREA PAVEMENT MARKING TYPE I - LINE 5"	FOOT	11,612	11,612									
*	780082 3 0	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	475	475									

F.A.I. RTE.	SECTION		COUN	ŢΥ	TOTAL SHEETS	SHEET NO.
90/94	•		000	K	312	10
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FED. ROAD	DIST, NO. 1	ILLINOIS	FED.	AID	PROJEC*	ſ
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		* DENOTES SPECIALIT TIEMS	
	REVISIONS NAME DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 63RD STREET TO GARFIELD BLVD (NB LOCAL LANG	ES
		SUMMARY OF QUANTITIES	
4		SCALE: NONE DRAWN BY: NJ: DATE: June 9, 2006 CHECKED BY: RM:	

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SUMMARY OF QUAN	1	1	- 1	1	Ŀ:	>
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							90% FED	ERAL / 1	O% STATE				,
				URBAN	RETAINI	NG WALL	BRI	DGE	CIONING	C15577 1 1007		CHOVELLANCE	СДОТ
				ROADWAY	016-W923	016-W931	STR NO 016-0142	STR NO 016-1148	STONING	SAFEIT	LIGHTING	SURVEILLANCE	LIGHTING
CODE NO.	ITEM	UNIT	QUANTITY	J000	Y007	Y007	SFTY-ZA	5FTY-24	Y002-1C	SFTY-3N	Y030-1E	Y032-1F	Y030-4
X0323974	SEDIMENT CONTROL, SILT FENCE MAINTENANCE	FOOT	975	975									
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	21,595	20,946		649							
X0324112	BARRIER BASE	FOOT	6,933	6,933									
X0324415	CONDUIT ENCASED, REINFORCED CONCRETE, 1-4" DIA., CNC	FOOT	53									53	
X0324470	CONDUIT ENCASED, REINFORCED CONCRETE, 3-4" DIA., CNC	FOOT	230									230	
X0324697	SOIL STABILIZERS	POUND	284,719	284,719									
X0324698	APPLYING DUST SUPPRESSION AGENT	UNIT	460	460									
X0325085	TEMPORARY PAVEMENT (INTERSTATE)	SQ YD	205	205									
X0919000	TEMPORARY PAVEMENT REMOVAL	SQ YD	205	205									
x2020300	EXCAVATE AND PLACE EXISTING GRANULAR MATERIAL	CU YD	1,660	1,660									
X2500322	SEEDING, CLASS 5A (MODIFIED)	ACRE	0.14	0.14									
X4210400	LUG SYSTEM REMOVAL	EACH	1	1									
X4834090	PORTLAND CEMENT CONCRETE SHOULDERS 14"	SQ YD	10,493	10,493									
X6061003	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.48 (MODIFIED)	FOOT	396	396									
X6063600	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24	FOOT	1,989	1,989									
X6065740	CONCRETE MEDIAN SURFACE, 5 INCH (MODIFIED)	SQ FT	2,070	2,070									
X6370910	CONCRETE BARRIER, SINGLE FACE, 32" HEIGHT	FOOT	2,566	2,566									
X6370930	CONCRETE BARRIER, DOUBLE FACE, 32" HEIGHT	FOOT	3,569	3,569			-						
X6640050	CHAIN LINK FENCE 42", ATTACHED TO STRUCTURE (SPECIAL)	FOOT	718	0,000	718								
X6700600	ENGINEER'S FIELD LABORATORY (SPECIAL)	CAL MO	8	8	110								
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1									
X7013820	TRAFFIC CONTROL SURVEILLANCE, EXPRESSWAYS	CAL DA	270	270									
X7015000	CHANGEABLE MESSAGE SIGN	CAL MO	70	70									
X8100045	CONDUIT ENCASED, REINFORCED CONCRETE, 1-3" DIA., CNC	FOOT		10							73		
THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN THE PERSON	STABILIZED SUB-BASE 41/2"	SQ YD	73	40.700	***************************************								
			42,709	42,709									
XX003988	TEMPORARY CONCRETE BARRIER REMOVAL	FOOT	8,189	8,189									
XX004201	PAVEMENT REINFORCEMENT 14"	SO YD	29,253	29,253									
Z0013798	CONSTRUCTION LAYOUT	L SUM	-1	1									
Z0029999	IMPACT ATTENUATOR REMOVAL	EACH	4							4			<u> </u>
Z0030070	IMPACT ATTENUATOR (SEVERE USE, NARROW), TEST LEVEL 3	E ACH	2							2			

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	312	12
STA.		TO STA.		
FED. ROAD	DIST. NO. 1 ILL1	NOIS FED. AID	PROJECT	-
60A62	* (1919.	15, 2021-922	PT1 & P	T2) R-1

. DENOTES SPECIALTY ITEMS

	* DENOTES SPECIALITY TIEMS	
REVISIONS NAME DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY	
	63RD STREET TO GARFIELD BLVD (NB LOCAL L	ANES
	SUMMARY OF QUANTITIES	
	SCALE: NONE DRAWN BY: DATE: June 9, 2006 CHECKED BY:	NJH RMG

CTE AECOM

1 Rev. 8-21-06

S0Q-6

SUMMARY OF QUANTITIES

								90% FEDI	FEDERAL / 10% STATE					
					URBAN	RETAININ	IG WALL	BRI		CICNING	SAFETY LIC	LICUTING	CHOVETHANCE	CDOT
					ROADWAY	016- W 923	016-W931	STR NO 016-0142	STR NO 016-1148	SIGNING	SAFEII	LIGHTING	SURVEILLANCE	CDOT LIGHTING
	CODE NO.	ITEM	UNIT	QUANTITY	1000	Y007		SFTY- ZA	1	Y002-1C	SFTY-3N	Y030-1E	Y032-1F	Y030-1€
•	Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4							4			
•	Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1							1			
	Z0040530	PIPE UNDERDRAIN REMOVAL	FOOT	1,017	1,017									
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1									
•	Z0076600	TRAINEES	HOUR	1500	1500	ΣΔ.								
•	X0325499	AERIAL CABLE, 2 1/C NO. 4	FOOT	150										150
•	X0325491	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., SCH. 80 PVC	FOOT	653						-				653
•	X0325492	CONVENTIONAL STREET LIGHTING UNIT WALL MOUNTED, INSTALL ONLY	EACH	8										8
•	X0325494	GALVANIZED STEEL CONDUIT IN TRENCH, 2" DIA., SCH. 40	FOOT	25										25
•	80700110	GROUND ROD, 3/4" DIA. X 10 FT.	EACH	8				·		_				8
•	X0325500	JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, TYPE J	EACH	2									2	
•	TWY02040	MAINTAIN EXISTING LIGHTING SYSTEM	L SUM	1						-				1
•	X0945500	PAINT EXISTING POLE COMPLETE	EACH	8										8
•	X0325495	REMOVE EXISTING STREET LIGHTING UNIT AND SALVAGE	EACH	9										9
•	X0324901	REMOVE EXISTING STREET LIGHTING FOUNDATION	EACH	9			-							9
•	X0325496	TRENCH AND BACKFILL WITH SCREENINGS AND/OR SAND	FOOT	25						-				25
•	X0325493	CABLE IN CONDUIT, 2-1/C NO. 6 AND 1-1/C NO. 8 GND.	FOOT	840										840
	X0325501	FABRIC REINFORCED ELASTOMERIC MAT	SQ FT	63		-	63							
	X0325303	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5")	SQ FT	. 15					15					
	X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5")	SQ FT	993				458	535					
	X0325498	DUCTILE IRON PIPE	FOOT	143	143	· · · · · · · · · · · · · · · · · · ·		V. D. J. D. J. V. D. J.						
	X0325502	MEDIAN BARRIER GATE SYSTEM	EACH	1	1							,		
c	X0325503	REMOVAL OF EXISTING TEMPORARY SOIL RETENTION SYSTEM	FOOT	926	926									
E	66900200	NOW-SPECIAL WASTE DISPOSAL	cu yo	4,500	4,500									
ξ.	66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	,		7								
Δ ζ	66900530	SOIL DISPOSAL ANALYSIS	EACH	Z	Z									
												-	errorina de la compania de la compa	
	'													

C00K 312 13

DENOTES SPECIALTY ITEMS

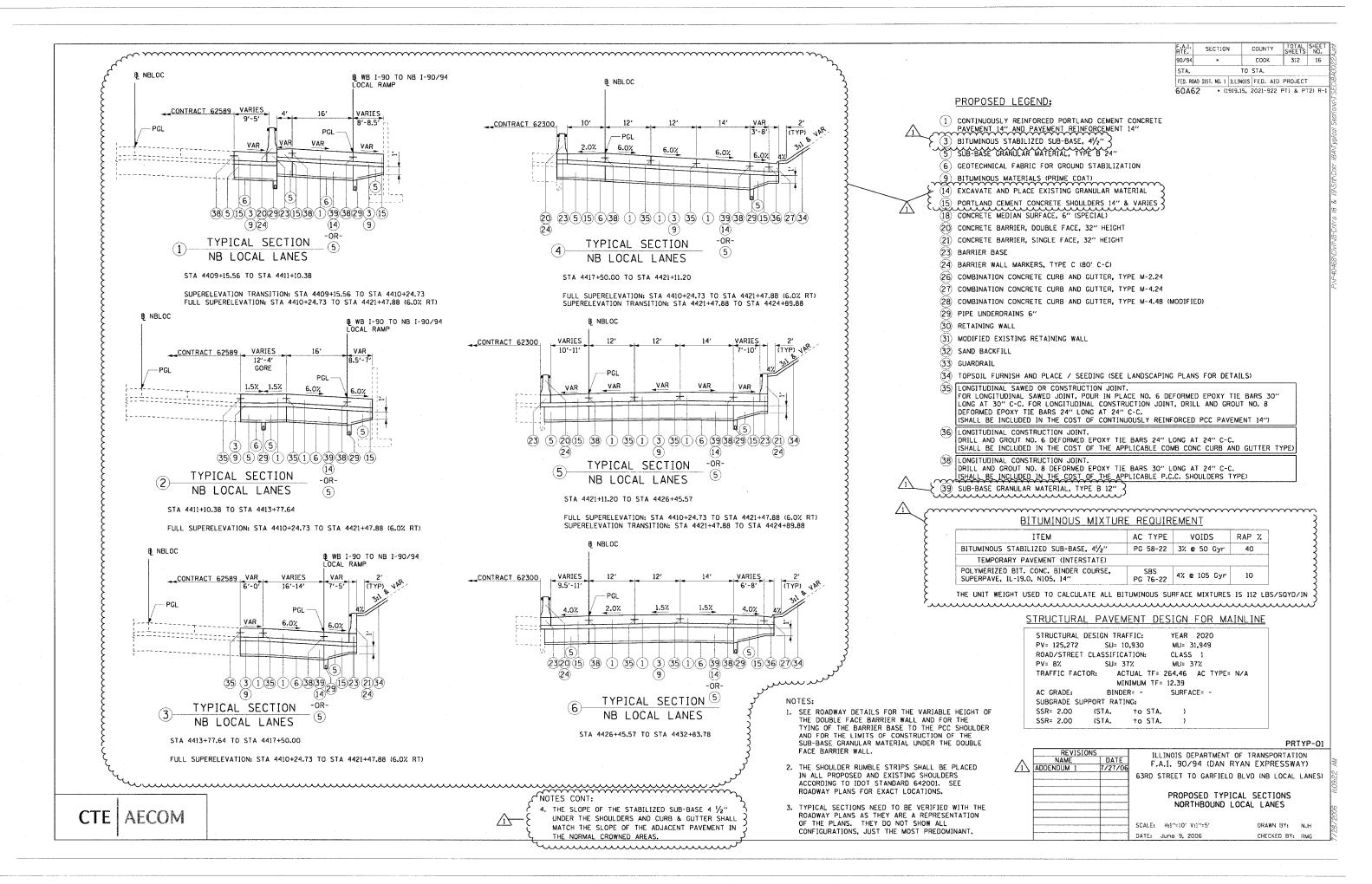
ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES) SUMMARY OF QUANTITIES SCALE: NONE DRAWN BY: NJH DATE: June 9, 2006 CHECKED BY: RMG

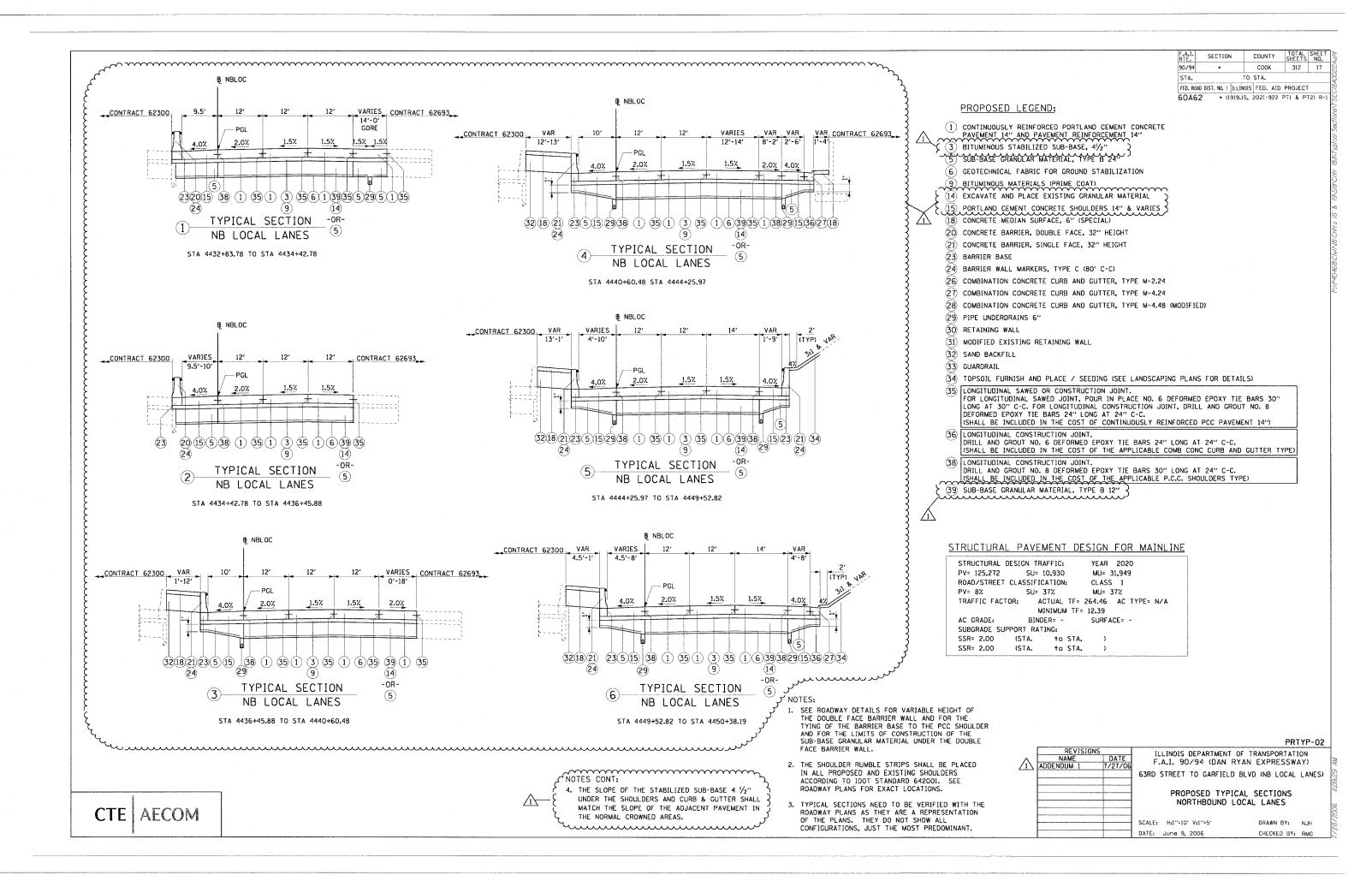
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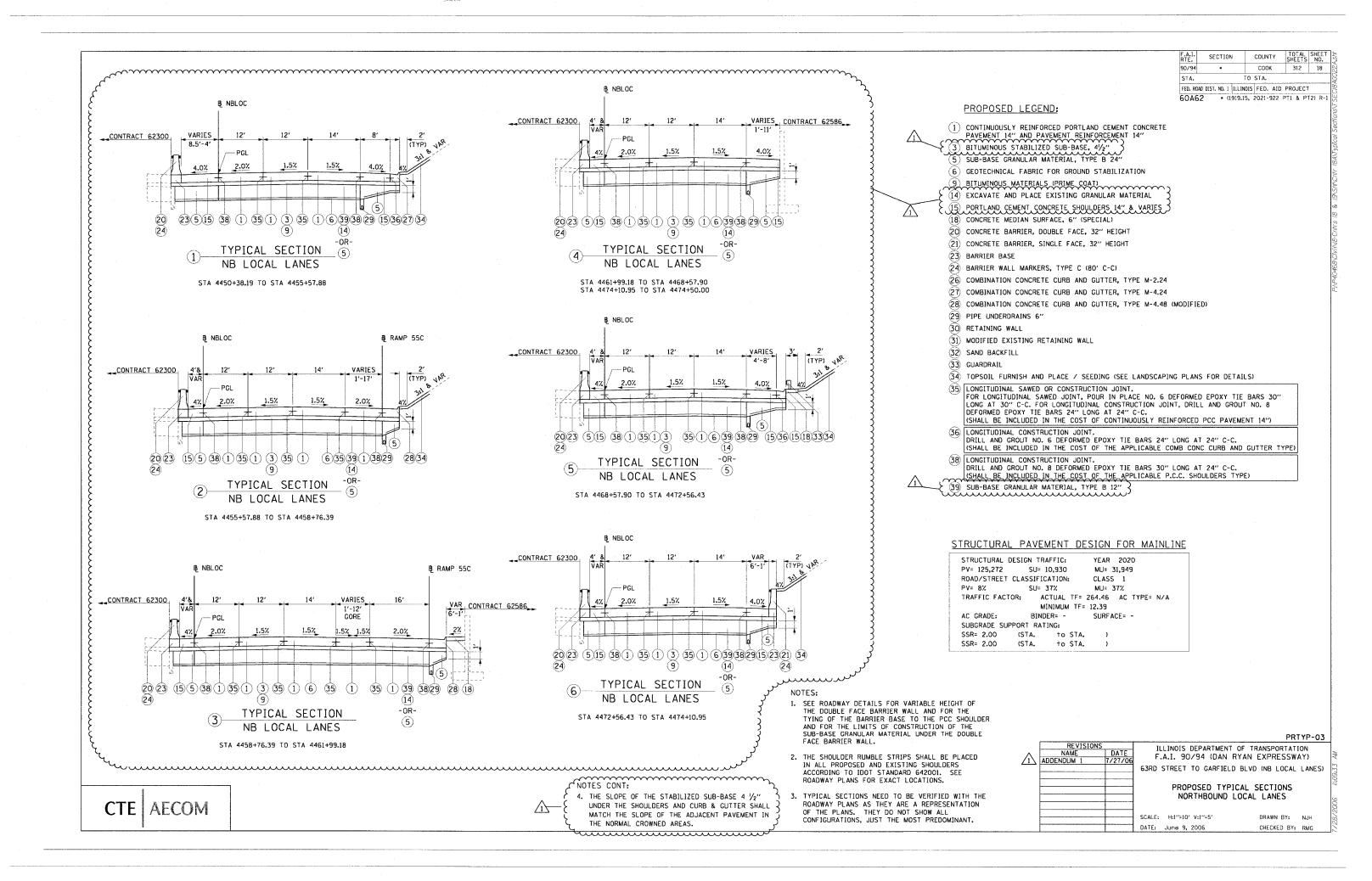
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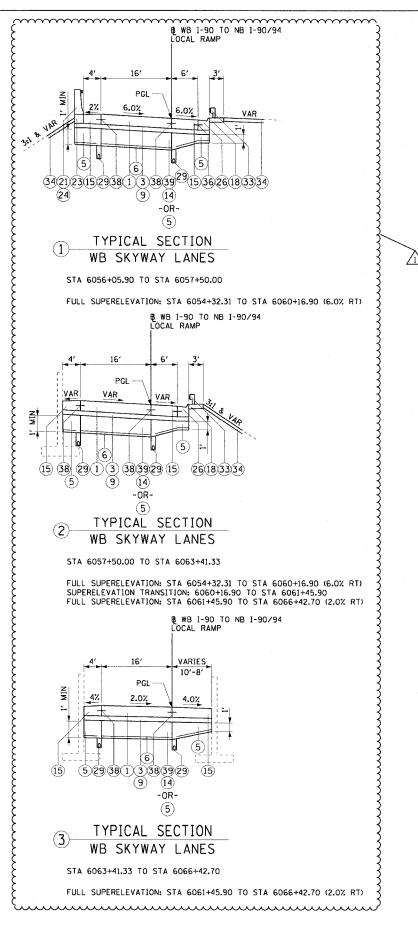
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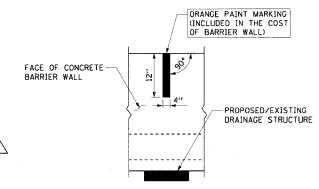
S0Q-7











CONCRETE BARRIER WALL MARKING AT DRAINAGE STRUCTURE

PLACE ON BARRIER WALL CONSTRUCTED ADJACENT TO ALL PROPOSED AND/OR EXISTING DRAINAGE STRUCTURES

SECTION COUNTY TOTAL SHEET SHEETS NO. COOK STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

60A62 • (1919.15, 2021-922 PT1 & PT2) R-

PROPOSED LEGEND:

(1) CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 14" AND PAVEMENT REINFORCEMENT 14"

(3) BITUMINOUS STABILIZED SUB-BASE, 41/2" 5) SUB-BASE GRANULAR MATERIAL, TYPE B 24"

(6) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION

9 BITUMINOUS MATERIALS (PRIME COAT)

(14) EXCAVATE AND PLACE EXISTING GRANULAR MATERIAL

PORTLAND CEMENT CONCRETE SHOULDERS 14" & VARIES CONCRETE MEDIAN SURFACE, 6" (SPECIAL)

20) CONCRETE BARRIER, DOUBLE FACE, 32" HEIGHT

(21) CONCRETE BARRIER, SINGLE FACE, 32" HEIGHT

(23) BARRIER BASE

24) BARRIER WALL MARKERS, TYPE C (80' C-C)

(26) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.24

(27) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24

(28) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.48 (MODIFIED)

(29) PIPE UNDERDRAINS 6"

30 RETAINING WALL

(31) MODIFIED EXISTING RETAINING WALL

32 SAND BACKFILL

(33) GUARDRAIL

(34) TOPSOIL FURNISH AND PLACE / SEEDING (SEE LANDSCAPING PLANS FOR DETAILS)

(35) LONGITUDINAL SAWED OR CONSTRUCTION JOINT. LONG AT 30" C-C. FOR LONGITUDINAL CONSTRUCTION JOINT, DRILL AND GROUT NO. 8 DEFORMED EPOXY TIE BARS 24" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF CONTINUOUSLY REINFORCED PCC PAVEMENT 14")

(36) LONGITUDINAL CONSTRUCTION JOINT. DRILL AND GROUT NO. 6 DEFORMED EPOXY TIE BARS 24" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF THE APPLICABLE COMB CONC CURB AND GUTTER TYPE)

(38) LONGITUDINAL CONSTRUCTION JOINT.
DRILL AND GROUT NO. 8 DEFORMED EPOXY TIE BARS 30" LONG AT 24" C-C. (SHALL BE INCLUDED IN THE COST OF THE APPLICABLE P.C.C. SHOULDERS TYPE)

(39) SUB-BASE GRANULAR MATERIAL, TYPE B 12" mumimumi

STRUCTURAL DESIGN TRAFFIC: YEAR 2020 PV= 125.272 SU= 10.930 MU= 31,949 ROAD/STREET CLASSIFICATION: CLASS 1 PV= 8% SU= 37% MU= 37% TRAFFIC FACTOR: ACTUAL TF= 264.46 AC TYPE= N/A MINIMUM TF= 12.39 AC GRADE: BINDER= -SURFACE= SUBGRADE SUPPORT RATING: SSR= 2.00 (STA. to STA. SSR= 2.00 (STA. to STA.

STRUCTURAL PAVEMENT DESIGN FOR MAINLINE

NOTES:

1. SEE ROADWAY DETAILS FOR VARIABLE HEIGHT OF THE DOUBLE FACE BARRIER WALL AND FOR THE TYING OF THE BARRIER BASE TO THE PCC SHOULDER AND FOR THE LIMITS OF CONSTRUCTION OF THE SUB-BASE GRANULAR MATERIAL UNDER THE DOUBLE FACE BARRIER WALL.

2. THE SHOULDER RUMBLE STRIPS SHALL BE PLACED IN ALL PROPOSED AND EXISTING SHOULDERS ACCORDING TO IDOT STANDARD 642001. SEE ROADWAY PLANS FOR EXACT LOCATIONS.

3. TYPICAL SECTIONS NEED TO BE VERIFIED WITH THE ROADWAY PLANS AS THEY ARE A REPRESENTATION OF THE PLANS. THEY DO NOT SHOW ALL CONFIGURATIONS, JUST THE MOST PREDOMINAN

THE SLOPE OF THE STABILIZED SUB-BASE 4 1/2" UNDER THE SHOULDERS AND CURB & GUTTER SHALL MATCH THE SLOPE OF THE ADJACENT PAVEMENT IN THE NORMAL CROWNED AREAS.

PRTYP-04

ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) ADDENDUM 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES) PROPOSED TYPICAL SECTIONS NORTHBOUND LOCAL LANES SCALE: Hit''=10' Vit''=5' DRAWN BY: DATE: June 9, 2006 CHECKED BY: RMG

AECOM

F.A.I. RTE.	SECTION	J	COUNTY	TOTAL SHEETS	SHEET NO.				
90/94	•		соок	312	118				
STA. TO STA.									
STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT C									
60A6	2 • (1	919.15,	2021-922	PT1 & P	T2) R-1				

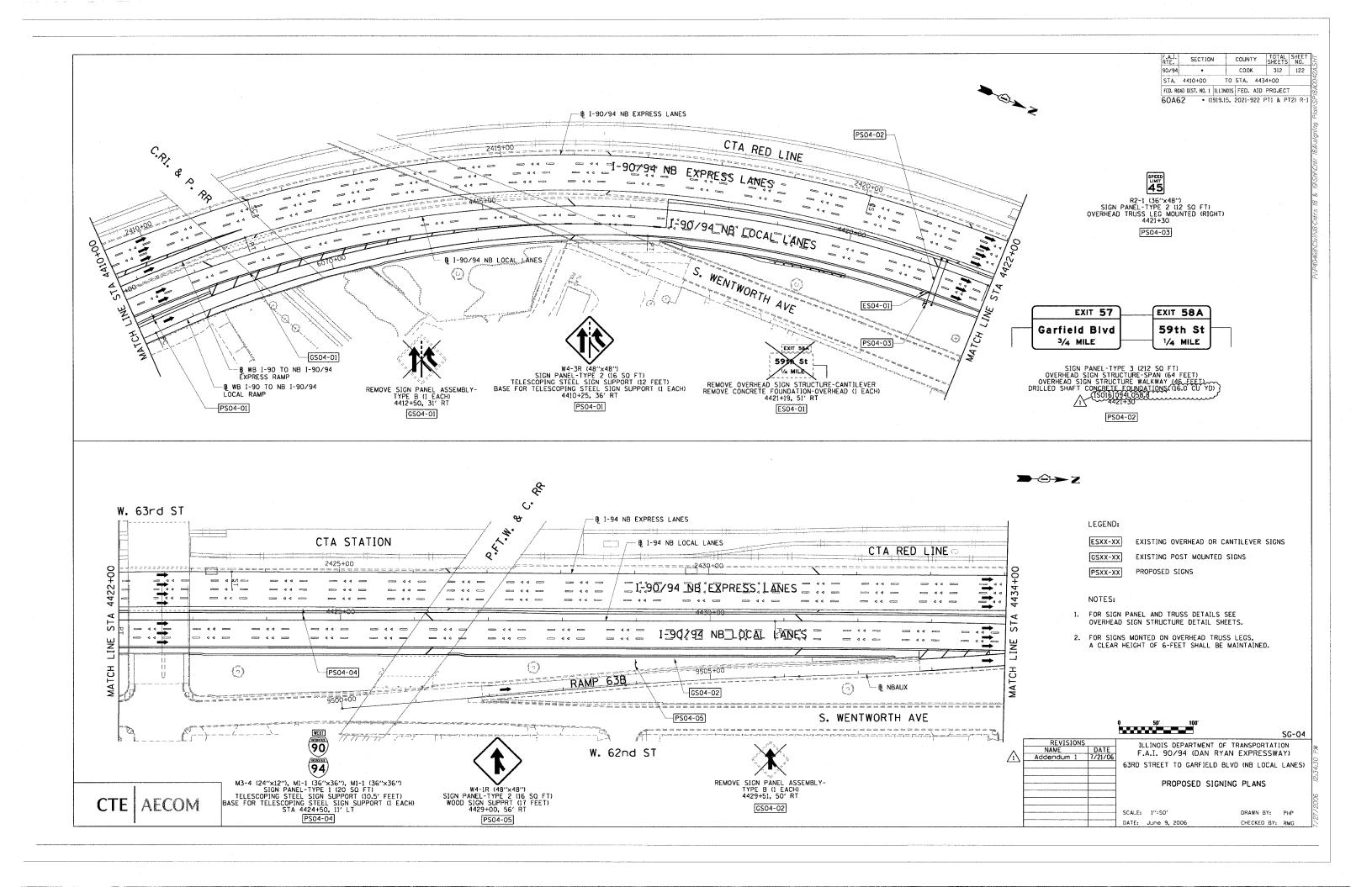
PROPOSED SIGNING SCHEDULE

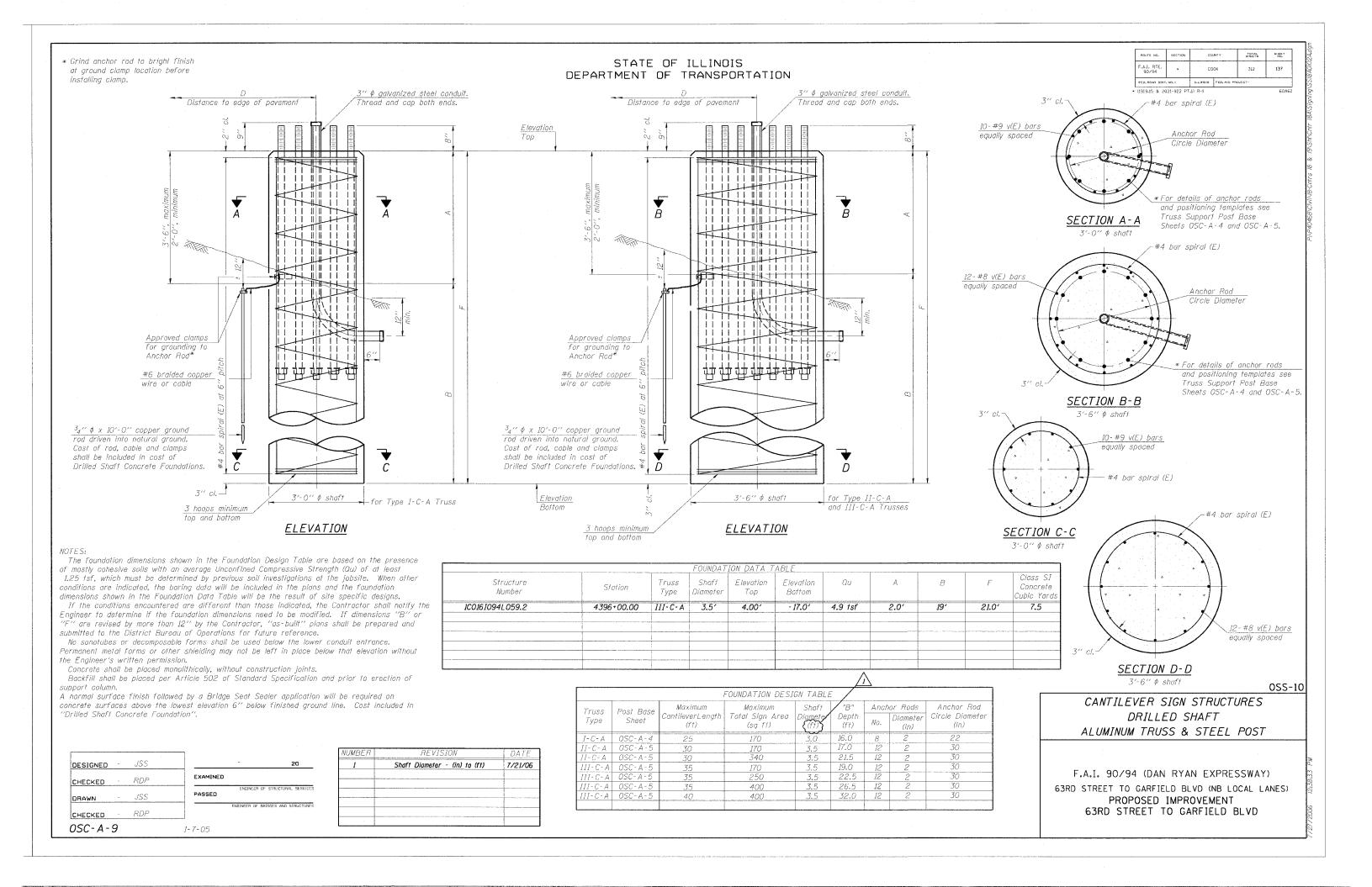
				SIGN PANEL-TYPE 1	SIGN PANEL-TYPE 2	SIGN PANEL-TYPE 3	REMOVE SIGN PANEL ASSEMBLY-TYPE B	REMOVE SIGN PANEL-TYPE 3	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	TELESCOPING STEEL SIGN SUPPORT	WOOD SIGN SUPPORT	BASE FOR TELESCOPING STEEL SIGN SUPPORT	OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")	OVERHEAD SIGN STRUCTURE - SPAN,TYPE III-A (5'-0" X 7'-0")	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A (36" X 7'-0")	OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	OVERHEAD SIGN STRUCTURE WALKWAY	CONCRETE FOUNDATIONS	DRILLED SHAFT CONCRETE FOUNDATIONS	REMOVE OVERHEAD SIGN STRUCTURE - CANTILEVER	REMOVE GROUND-MOUNTED SIGN SUPPORT	REMOVE CONCRETE FOUNDATION - GROUND MOUNT	REMOVE CONCRETE FOUNDATION - OVERHEAD
SHEET	STRUCTURE NUMBER	STATION	SIGN CALLOUT	SQ FT	SQ FT	SO FT	EACH	SQ FT	POUND	FOOT	FOOT	EACH	FOOT	FOOT	FOOT	FOOT	FOOT	CU YD	CU YD	EACH	EACH	EACH	EACH
SG-01	-	3250' E of ES01-03	ES01-01					192													·		
SG-01	-	3250' E of ES01-03				203		132									.,,,						
SG-02	-	4381+05	PS02-01	4						8		1											
SG-02	-	2384+47	ES02-02			-	-	114			1					 							,
SG-02	1001610941 059 2	2384+47 4396+00	PS02-02		12	94		 	-	 		-			32.25		14.5		7.5				
SG-03 SG-03	1C016I094L059.2	2398+75	PS03-01 PS03-02	11		84	1		ļ		15	+	<u> </u>		32.23		14.5		1.0				,
SG-03	-	4399+00	PS03-03	11						<u> </u>	15												,
SG-03		4407+50	PS03-04	4						8		1											
SG-04	-	4421+19	ES04-01																	1			1
SG-04	-	4412+50	GS04-01				1			ļ													
SG-04 SG-04	-	4429+51 4410+25	GS04-02 PS04-01		16		1			12		1				-			\sim				
SG-04	1SS0161094L058.8	4421+30	PS04-02		10	212	<u> </u>			12		1	64				46		(16)				
SG-04	-	4421+30	PS04-03		12					<u> </u>									- Cir				
SG-04		4424+50	PS04-04	20						10.5		1											
SG-04	-	4429+00	PS04-05		16						17												
SG-05	-	4448+56	ES05-03				ļ													1			1
SG-05 SG-05	-	9515+61 4447+13	GS05-02 GS05-03				1	112		 			-				*				2	2	
SG-05	-	4455+50	GS05-04					112					-							1		-	1
SG-05		4434+85	PS05-01	4						8		1			-								
SG-05	-	4440+65	PS05-02	-	16.3					10.25		1											
SG-05	-	2442+20	PS05-03		12	ļ										-							
SG-05	- 1B016I094L058.2	4448+00 4448+68	PS05-04 PS05-05			112	 	-	652				-			16		1.4	<u> </u>				
SG-05 SG-05	-	4448+68	PS05-05	20		120	1	 		10.5		1				10							
SG-05	•	4452+50	PS05-07	24.5			1.	1		10,5	19	† • •					, ,						
SG-05	-	4454+50	PS05-08			30					32												
SG-05	1S016I094L058.1	4455+50	PS05-09			102								66			46.5		26.7				
SG-06	-	4462+01	GS06-01				1					1											
SG-06 SG-06		4461+10 2461+51	PS06-01 PS06-02	4	12			<u> </u>	<u> </u>	8		1										-	
SG-06		4462+05	PS06-03		16.3	 	 	 	 	15.25		1	+			<u> </u>							
50 00			1 330 00					<u> </u>		1000	 	† -				1							·
			TOTALS	102.5	112.6	871	4	226	652	90.5	98	9	64	66	32.25	16	107	1.4	(50.2 }	3	2	2	3

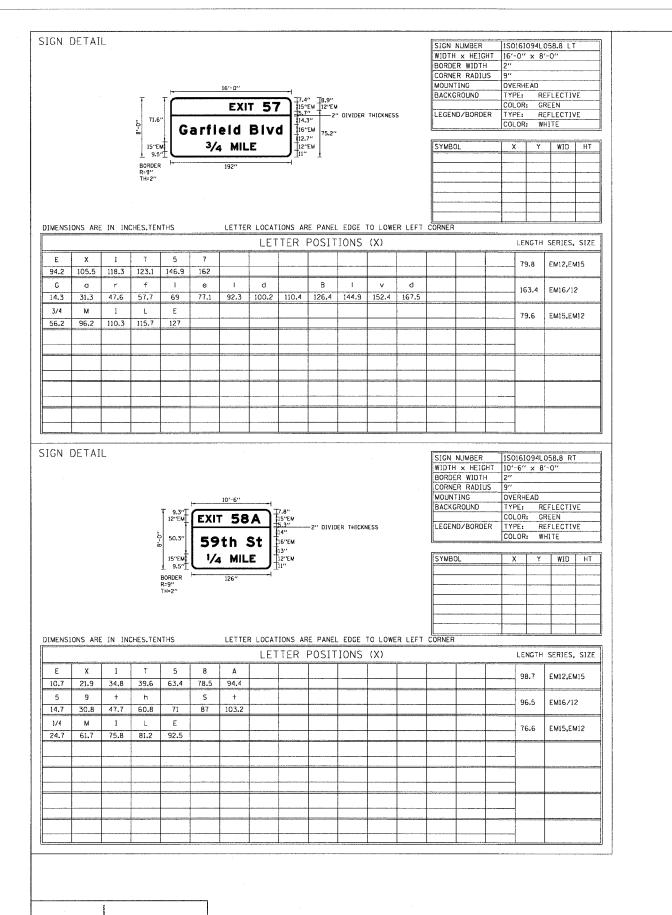
	REVISIONS		· ILI	LINOIS DE	PARTMENT OF TR	ANSPORTATION	ON
Λ	NAME	DATE	F.,	A.I. 90/	94 (DAN RYAN E	EXPRESSWA	(Y)
$\overline{1}$	ADDENDUM 1	7/27/06	C 7 D D C	TOCCT TO	GARFIELD BLVD	AND LOCAL	LANES
			משתט מ	INECT I	O GNILLIELD DEAD	IND LUCAL	CANES!
						NITITICC	
					HEDULE OF QUA		
				F	OR PROPOSED S	IGNING	
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			COALE	NONE		DO AWAY DV	N1 (0.1

SCALE: NONE DATE: June 9, 2006 DRAWN BY: NJH CHECKED BY: XXX

CTE | AECOM





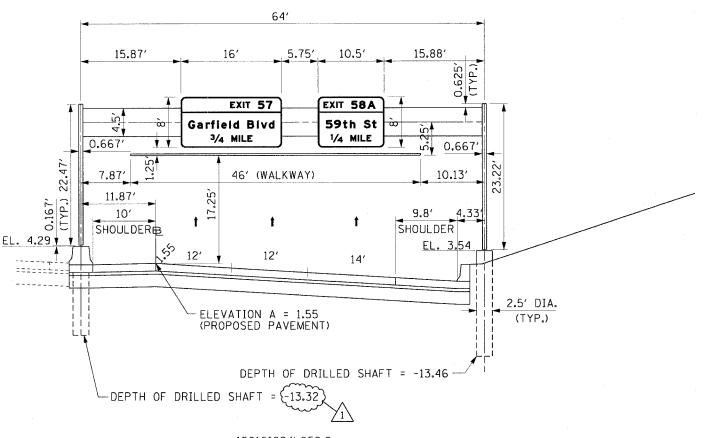


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COUNTY 90/94 COOK 312 138 TO STA. STA. FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

60A62 • (1919.15, 2021-922 PT1 & PT2) R-

TYPE I-A 8" PIPE TRUSS SUPPORT FRAME



1S016I094L058.8 MOUNTING DETAIL PROPOSED OVERHEAD SIGN STRUCTURE STA 4421+30.00 N.B. LOCAL I-90/94 LOOKING NORTH

NOTES:

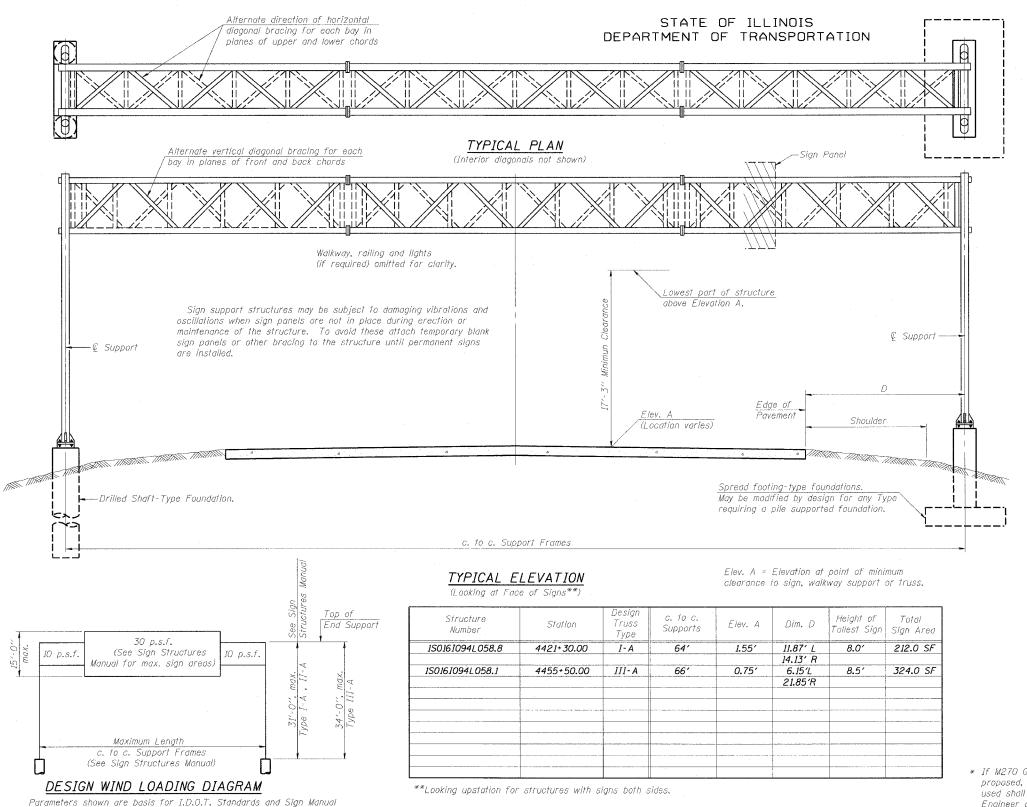
- 1. PROPOSED PAVEMENT FOR LOCAL LANES IS SHOWN FOR INFORMATION ONLY.
- 2. REFER TO ELECTRICAL INFRASTRUCTURE PLANS FOR ORIENTATION AND LOCATION OF THE CONDUIT EMBEDDED IN THE OVERHEAD SIGN FOUNDATIONS.

REVISIONS NAME

ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

PERMANENT SIGN PANEL MOUNTING DETAILS PROPOSED OVERHEAD SIGN STRUCTURE STA. 4421+30.00

SCALE: NONE DATE: June 9, 2006 DRAWN BY: JSS CHECKED BY: RDP



GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

ROUTE NO.

F.A.1. RTE. 90/94

* (1919.15 & 2021-922 PT.1) R-1

SHEET

140

TOTAL

312

COOK

LOADING: 90 M.P.H. WIND VELOCITY

WIND LOADING: 30 p.s.f. normal to Sign Panel Area and truss elements not behind sign Loading Diagram.

WALKWAY LOADING: Dead load plus 500 lbs, concentrated live load.

DESIGN STRESSES: Field Units $f'_c = 3.500 \ p.s.i.$ fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specificiations.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer. The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Boits and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All boits and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Gratina, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to AASHTO M314 Gr. 36 or 55 with a minimum Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Fnaineer as suitable for galvanizing and welding.

OVERHEAD SIGN STRUCTURES GENERAL PLAN & ELEVATION ALUMINUM TRUSS & STEEL SUPPORTS

0SS-13

F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES) PROPOSED IMPROVEMENT 63RD STREET TO GARFIELD BLVD

TOTAL BILL OF MATERIAL

NUMBER	REVISION	DATE
1	Total Bill of Material	7/21/06

TOTAL BILL OF MATERIAL			
ITEM	UNIT	TOTAL	
OVERHEAD SIGN STRUCTURE TYPE I-A (4'-0" x 4'-6")	Foot	64	
OVERHEAD SIGN STRUCTURE TYPE II-A (4'-6" x 5'-3")	Foot	0	
OVERHEAD SIGN STRUCTURE TYPE III-A (5'-0" x 7'-0")	Foot	66	
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	92.5	Λ
CONCRETE FOUNDATIONS	Cu. Yds.	S	11
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	{ 42.7 }	
		سب	

DESIGNED EXAMINED RDP CHECKED PASSED 155 DRAWN RDP CHECKED

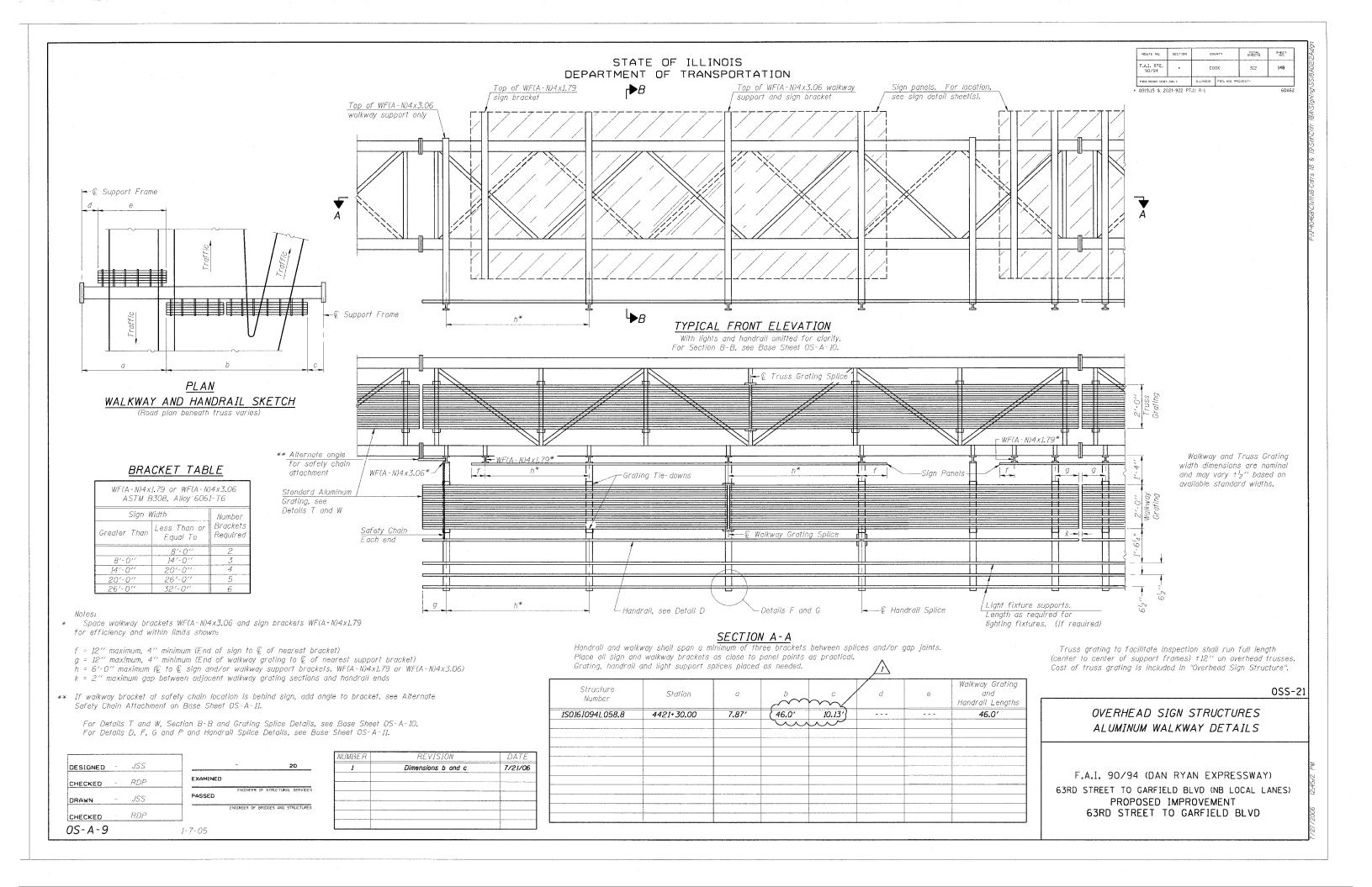
analysis for all components.

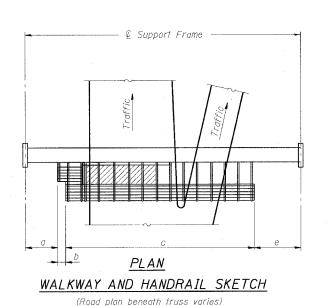
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JSS

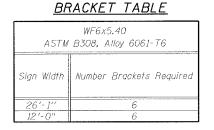
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Tables. Installations not within dimensional limits shown require special





Walkway and Truss Grating



JSS

DESIGNED

CHECKED

DRAWN

CHECKED

width dimensions are nominal and may vary ±12" based on available standard widths.

₽B‴ **,** B′ For Section B'-B', and B"-B", see Base Sheet For Section B -B , and B -B , see Base Sheet OS-A-10a-DMS2 $^{\prime\prime}$ В devices, lowered handrall and DMS cabinet. Truss Grating Splice-WF6x5.40*-**Safety Chain Panel Grating Tie-downs Safet<u>y</u> Chain L Dynamic Message Sign Cabinet -Handrail, see Detail D SECTION A-A Light fixture supports. Length as required for lighting fixtures. (If required)

TYPICAL FRONT ELEVATION

With handrail omitted for clarity. For Section B-B, see Base Sheet OS-A-10-DMS2

Notes: *Space WF6x5.40 brackets for efficiency and within limits shown:

f = 12'' maximum, 4'' minimum (End of sign to \mathbb{Q} of nearest bracket)

EXAMINED

PASSED

- g = 12" maximum, 4" minimum (End of walkway grating to € of nearest support bracket)
- h = 6'-0'' maximum (\mathbb{Q} to \mathbb{Q} or walkway support brackets, WF6x5.40)
- **If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment on Base Sheet OS-A-11-DMS2

For Details T and W. Section B-B and Grating Splice Details, see Base Sheet OS-A-10-DMS2. For Details D, F, G and P and Handrail Splice Details, see Base Sheet OS-A-11-DMS2.

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints. Place all sign and walkway brackets as close to panel points as practical. Grating and handrail splices placed as needed.

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

Top of WF6x5.40 walkway

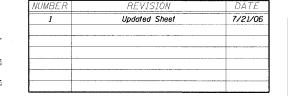
support and sign bracket

Truss grating to facilitate inspection shall run full length (center to center of support frames) ±12" on overhead trusses. Cost of truss grating is included in "Overhead Sign

С	đ	е	Walkway Grating and Handrail Lengths
44.50′	. 0	18.39′	46.50'

Structure Number	Station	а	Ь	С	đ	е	Walkway Grating and Handrail Lengths
1S0161094L058.1	4455+50.00	1.11′	2.00'	44.50′	0	<i>18</i> ,39′	46.50'

MODIFIED BY CTE ENGINEERS, INC FROM OS-A-9-DMS2 7/1/2001



and drail Lengths	F
46.50′	63RD

F.A.I. 90/94 (DAN RYAN EXPRESSWAY) STREET TO GARFIELD BLVD (NB LOCAL LANES) PROPOSED IMPROVEMENT

OVERHEAD SIGN STRUCTURES

ALTERNATE ALUMINUM WALKWAY DETAILS

63RD STREET TO GARFIELD BLVD

ROUTE NO.

F.A.I. RTE. 90/94

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(1919.15 & 2021-922 PT.1) R-

FED. ROAD DIST. NO. 3 JULINOIS FED. AID PROJECT

COOK

Sign panel, For location,

see sign detail sheet(s).

Top of WF6x5.40 for

walkway support only

TOTAL BHEETS

312

Bracket and grating dimensions

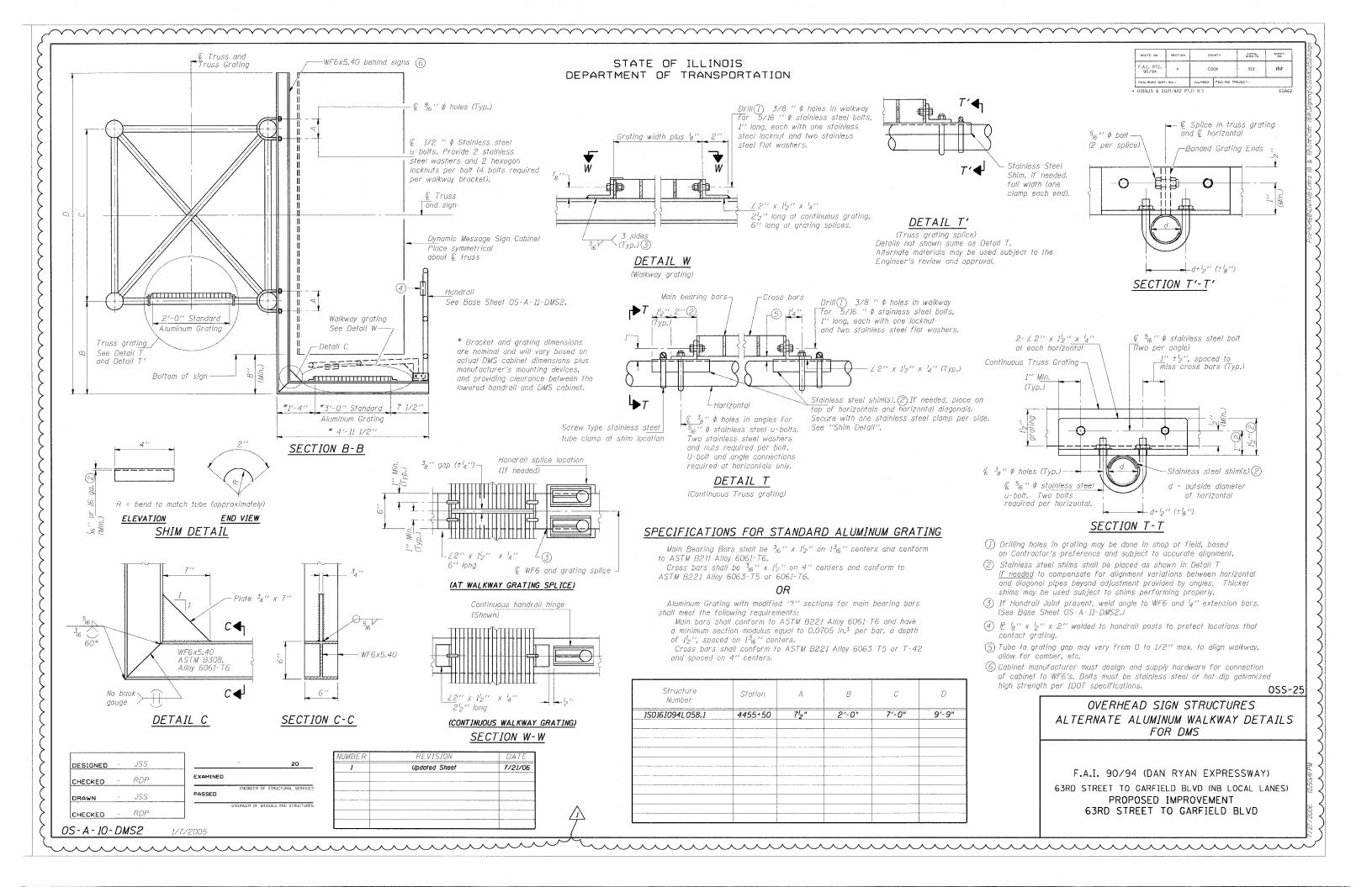
are nominal and will vary based

on actual DMS cabinet dimension

OSS-24

plus manufacturer's mounting

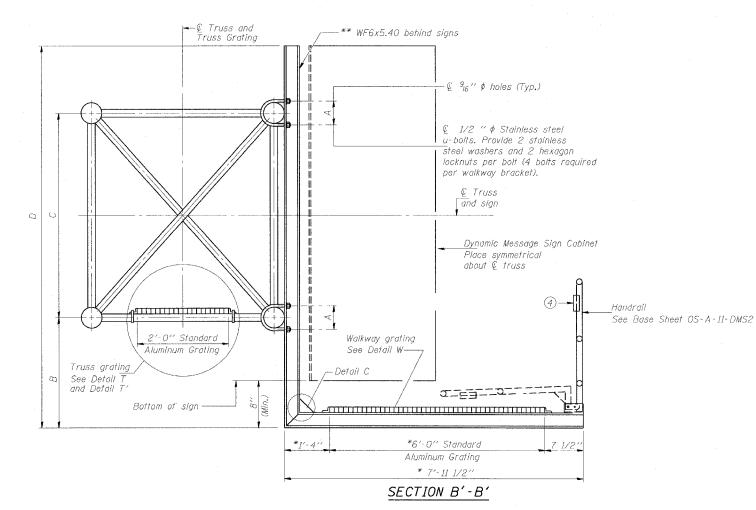
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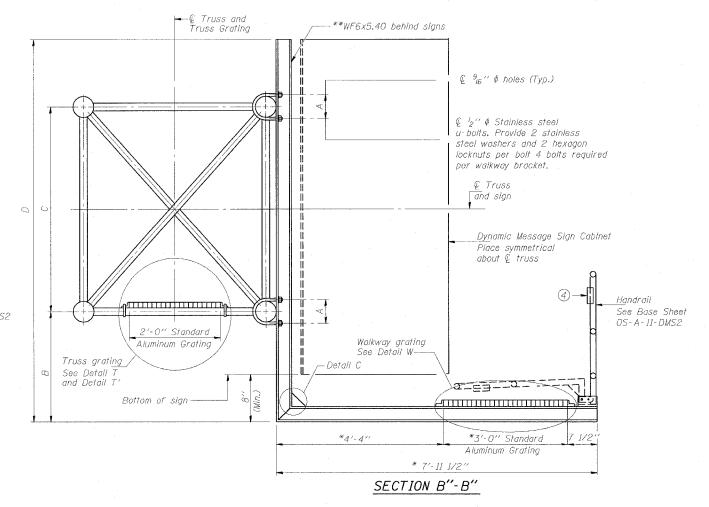


STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	co	UNT Y	TOTAL SHEETS	SHEET NO.
F.A.I. RTE. 90/94		co	OK	312	153
FED. ROAD DIST	. NO. 1	ILLINOIS	FED, AID PR	DJECT-	

• (1919.15 & 2021-922 PT.1) R-1





* Bracket and grating dimensions are nominal and will vary based on actual DMS cabinet dimensions plus manufacturer's mounting devices. and providing clearance between the lowered handrail and DMS cabinet.

** Cabinet manufacturer must design and supply hardware for connection of cabinet to WF6's. Bolts must be stainless steel or hot dip galvanized high strength per IDOT specifications.

For dimentions "A" to "D" and remaining details. see sheet OS-A-10-DMS2

0SS-26

OVERHEAD SIGN STRUCTURES ALTERNATE ALUMINUM WALKWAY DETAILS FOR DMS

F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES) PROPOSED IMPROVEMENT 63RD STREET TO GARFIELD BLVD

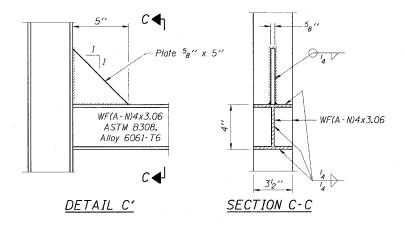
DESIGNED	-	JSS		-			20
CHECKED		RDP	EXAMINED				
DRAWN	~	JSS	PASSED	ENGINEER	OF STRU	JCTURAL	SERVICE
CHECKEU		RDP		ENGINEER OF	BRIDGES	AND ST	RUCTURE

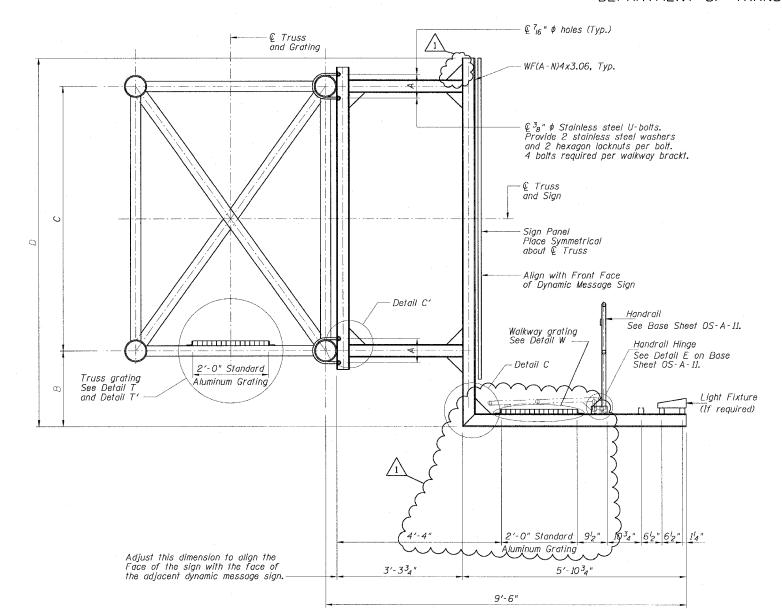
OS-A-10a-DMS2 1/7/2005

Updated Sheet 7/21/06

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION :	co	UNTY	TOTAL	SHEET NO.
F.A.J. RTE. 90/94		CDOK		312	154
FED. ROAD DIST	NO. I	JLL INDIS	FED. AID PRO	DJECY-	





SECTION B""-B""

OSS-27

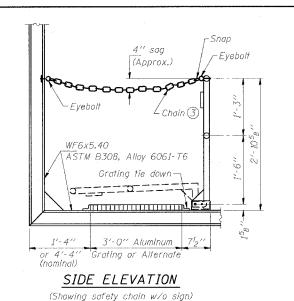
OVERHEAD SIGN STRUCTURES ALTERNATE ALUMINUM WALKWAY DETAILS

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27/06	
	F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
	63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)
	PROPOSED IMPROVEMENT
	63RD STREET TO GARFIELD BLVD
·	

DESIGNED	-	JSS	
CHECKED	_	RDP	EXAMINED
DRAWN	_	JSS	PASSED ENGINEER OF STRUCTURAL SERVICE
CHECKED	-	RDP	ENGINEER OF BRIDGES AND STRUCTURE

MODIFIED BY CTE ENGINEERS, INC FROM OS-A-9-DMS2



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

¹₄" Minimum gap → Length as required Length as required rail and grating shall span a minimum of three brackets 14" \$ Sch. 40 /Typ. on (1)Install standard force-fit end caps or aluminum pipe <u>Fi</u>ttings-ASTM B26, Alloy 356-T7 -3′-0′′ grating

FRONT ELEVATION

(2) Horizontal handrail member shall be continuous thru fitting. Provide $^{7}_{16}$ " ϕ hole in fitting for $^{3}_{8}$ " ϕ bolt. Field drill $^{7}_{16}$ " ϕ hole in horizontal rail member. Provide washer and locknut for bott. (Use $^{5}_{16}$ " eyebolts in $^{7}_{16}$ " ϕ holes on top rail at ends only.)

€ 3₁₆ " Ø hole for

pin chain ring

weld '8" end plates with '8" c.f.w. and

grind smooth. (All rail ends)

F.A.I. RTE. 90/94

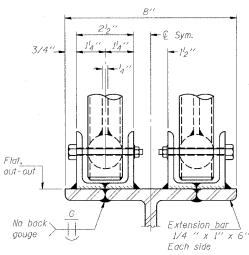
TOTAL SHEETS

312

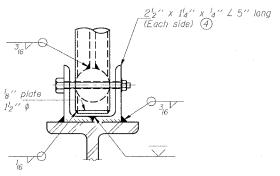
COOK

SHEET NO.

155

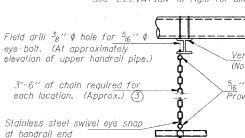


ELEVATION AT HANDRAIL JOINT (4)



FRONT ELEVATION

See "ELEVATION" at right for dimensions.



Vertical member of walkway bracket (No sign interference)

OSS-28

⁵16'' ¢ stainless steel eye-bolls. Provide washer and hexagon locknut.

SAFETY CHAIN

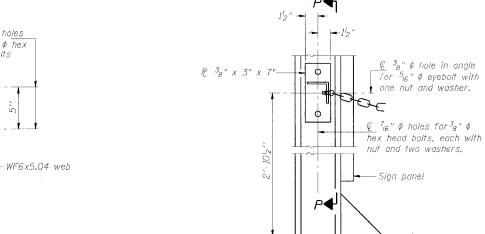
One required for each end of each walkway.

OVERHEAD SIGN STRUCTURES ALTERNATE ALUMINUM HANDRAIL DETAILS FOR DMS

F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES) PROPOSED IMPROVEMENT 63RD STREET TO GARFIELD BLVD

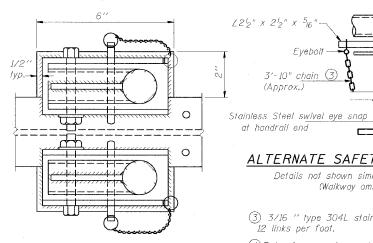
HANDRAIL DETAILS

Handrail pipe shall be ASTM B241, Alloy 6063-T6 or Alloy 6061-T6.



ALTERNATE SAFETY CHAIN ATTACHMENT

(With Sign Present) Items not shown same as "Side Elevation" of "Handrail Details"



(3) 3/16 "type 304L stainless steel chain, approximately

Eyebolt -

3'-10" c<u>hain</u> ③

(Approx.)

at handrail end

12 links per foot.

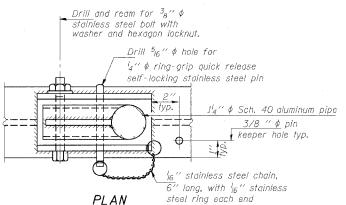
SIDE ELEVATION

4) Extrusions may be used in lieu of the details shown, with approval of the Engineer.

ALTERNATE SAFETY CHAIN ATTACHMENT

Details not shown similar to "Safety Chain" Details (Walkway omitted for clarity)

€ 7₁₆" ¢ ho<u>les</u> .₽ ³8" x 3" x 7" → for $\frac{3}{8}$ " ϕ hex 122" x 212" x 516 ₩F6x5.04 web ← € 38" φ eyebolt hole 1'-25" SECTION P-P



DETAIL E HANDRAIL HINGE

DESIGNED	_	JSS	
		RDP	
CHECKED	-	RDF	
DRAWN	-	JSS	
CHECKED		RDP	

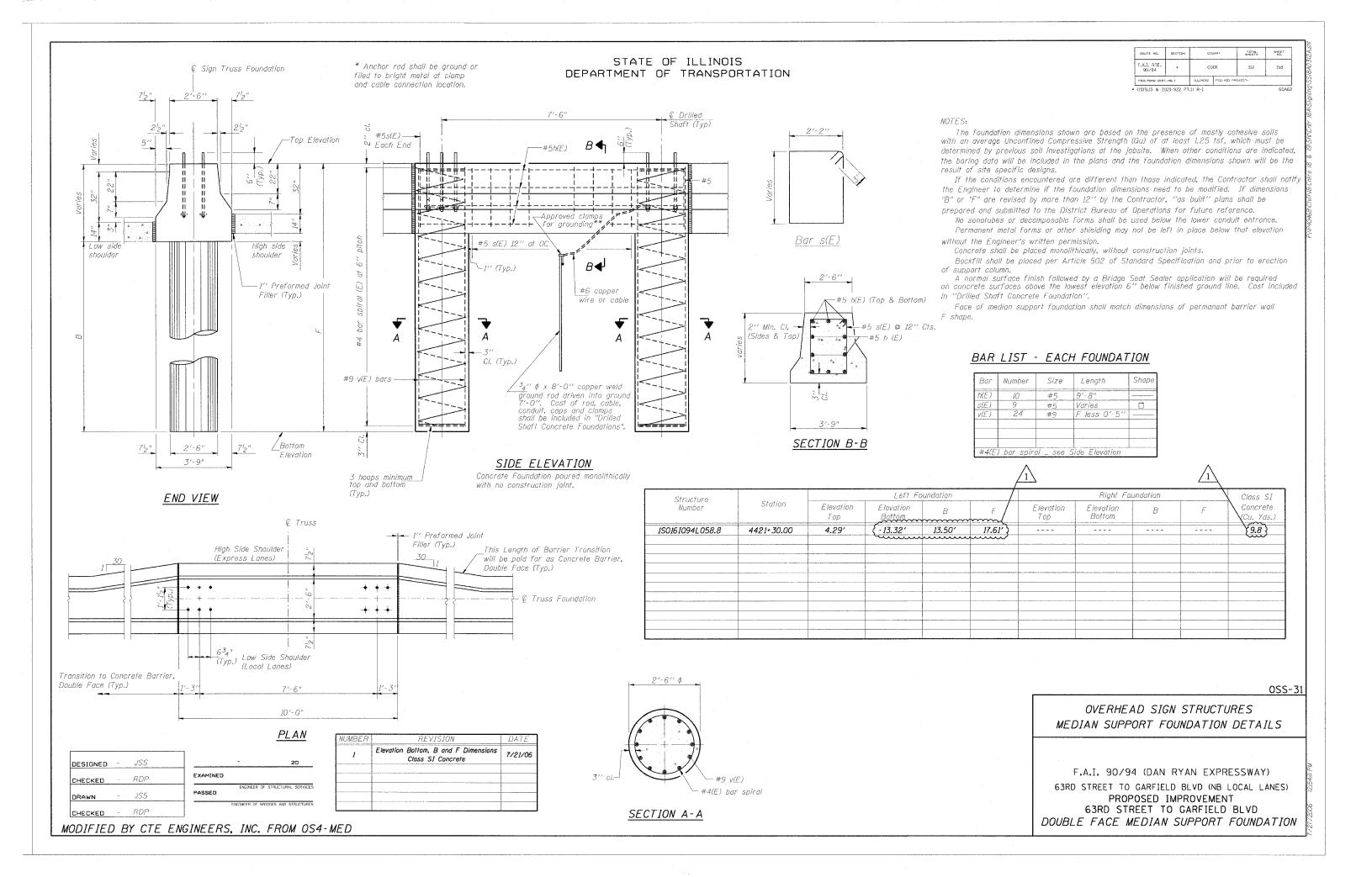
OS-A-11-DMS2 1/7/2005

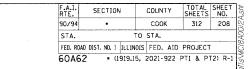
EXAMINED PASSED

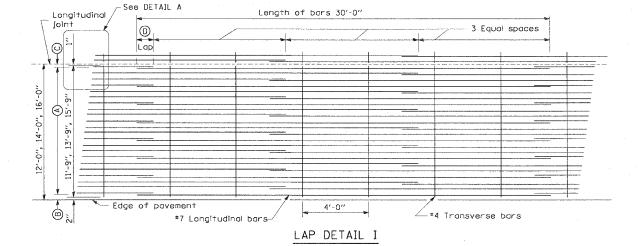
IMRE 7/21/06 Updated Sheet

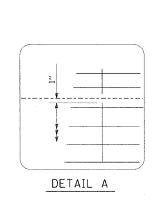
PLAN AT HANDRAIL JOINT

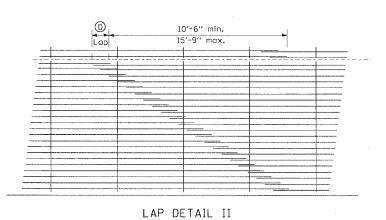
Details not shown same as "PL'AN"

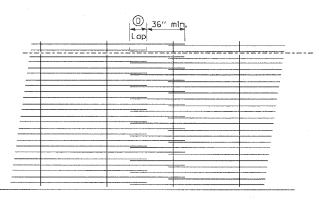












LAP DETAIL III

Pavement Width	Bar Size	Pavement Thickness		B	0	0
12 fee†	#7	14"	23 spaces (24 bars) @ 6"	31/2"	3′′	26"
14 feet	#7	14" }	27 spaces (28 bars) @ 6" 🔾	31/2"	3′′	26"
16 feet	#7	14"	31 spaces (32 bars) @ 6" 🗸	31/2"	3′′	26"

NOTES:

- 1. THE PAVEMENT REINFORCEMENT SHALL BE 4.5" FROM THE TOP OF PAVEMENT.
- EXCEPT AS NOTED OR SHOWN, THE DIMENSIONS AND NOTES SPECIFIED FOR LAP DETAIL I ARE TYPICAL FOR LAP DETAIL II AND III.
- THE ® DIMENSION AND THE DISTANCE FROM THE END OF THE TRANSVERSE BAR TO THE EDGE OF PAVEMENT MAY BE INCREASED BY 1" FOR SLIP FORM PAVING.

RDT-1

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ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 63RD STREET TO GARFIELD BLVD (NB LOCAL LANES)

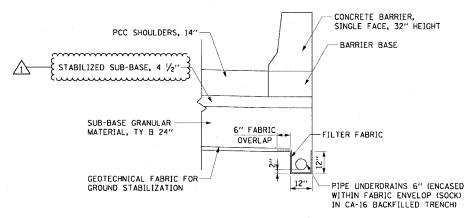
ROADWAY DETAILS EXTENDED LANE REINFORCEMENT FOR DITINUOUSLY REINFORCED PCC PAVEMENT

SCALE: NONE
DATE: June 9, 2006

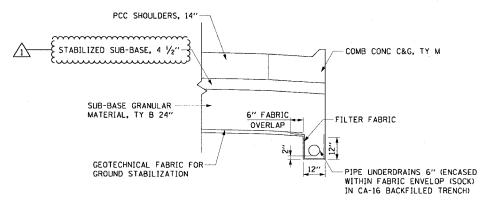
DRAWN BY: NJH CHECKED BY: RMG

CTE | AECOM

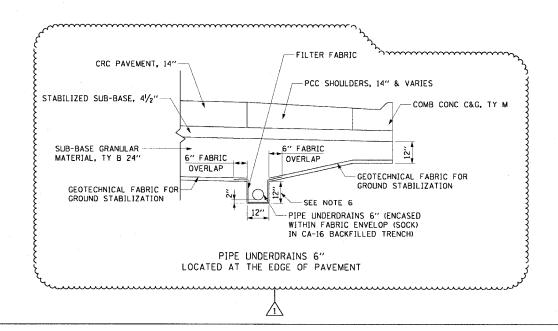
PIPER UNDERDRAINS 6" N.T.S.



PIPE UNDERDRAINS 6" LOCATED UNDER SINGLE FACE BARRIER WALL



PIPE UNDERDRAINS 6"
LOCATED UNDER COMB CONC C&G



COUNTY SECTION TOTAL SHEE COOK STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT 60A62 * (1919.15, 2021-922 PT1 & PT2) R-

NOTES:

- 1. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION SHALL BE PLACED SUCH THAT IT EXTENDS TO THE EDGE OF THE TRENCH AND OVERLAPS THE FILTER FABRIC BY A MINIMUM OF 6". AT NO TIME SHALL THE GEOTECHNICAL FABRIC FOR GROUND STABILIZATION BE OVER OR COVER THE UNDERDRAIN TRENCH.
- 2. NO CONSTRUCTION TRAFFIC SHALL BE ALLOWED ON THE TRENCH UNTIL A MINIMUM OF 12" OF COMPACTED SUB-BASE IS PROVIDED.
- 3. THE PIPE UNDERDRAIN TRENCH SHALL BE LINED WITH FILTER FABRIC ON THE BOTTOM AND SIDES OF THE TRENCH. THE TOP OF THE TRENCH MUST NOT BE COVERED WITH ANY FABRIC.
- 4. FILTER FABRIC, FABRIC ENVELOPE, AND CA-16 AGGREGATE ARE INCLUDED IN THE UNIT COST OF PIPE UNDERDRAIN, 6".
- 5. CONTRACTOR SHALL FLUSH PIPE UNDERDRAIN WITH WATER TO INSURE UNDERDRAIN IS FUNCTIONING PROPERLY PRIOR TO THE PLACEMENT OF STABILIZED SUB-BASE. PRIOR TO COMMENCING THIS WORK, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH HIS APPROACH AND METHODS FOR COMPLETING THIS WORK, FOR THE ENGINEER'S REVIEW AND APPROVAL. THE COST OF FLUSHING THE PIPE IS INCLUDED IN THE UNIT COST OF PIPE UNDERDRAIN, 6".

DDT-1 ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY)

63RD STREET TO GARFIELD BLVD (NB LOCAL LANES) DRAINAGE DETAILS

PIPE UNDERDRAINS 6"

SCALE: NONE DATE: June 9, 2006

DRAWN BY: RMG CHECKED BY: XXX

AECOM CTE