

08-22-14 SPECIAL LETTING ITEM 014

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAP ROUTE 22 (IL 78)  
SECTION 15BR-1

WHITESIDE COUNTY

F.A.E. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	15BR-1	WHITESIDE	146	1
		ILLINOIS	CONTRACT NO. 64F19	

D-92-082-09



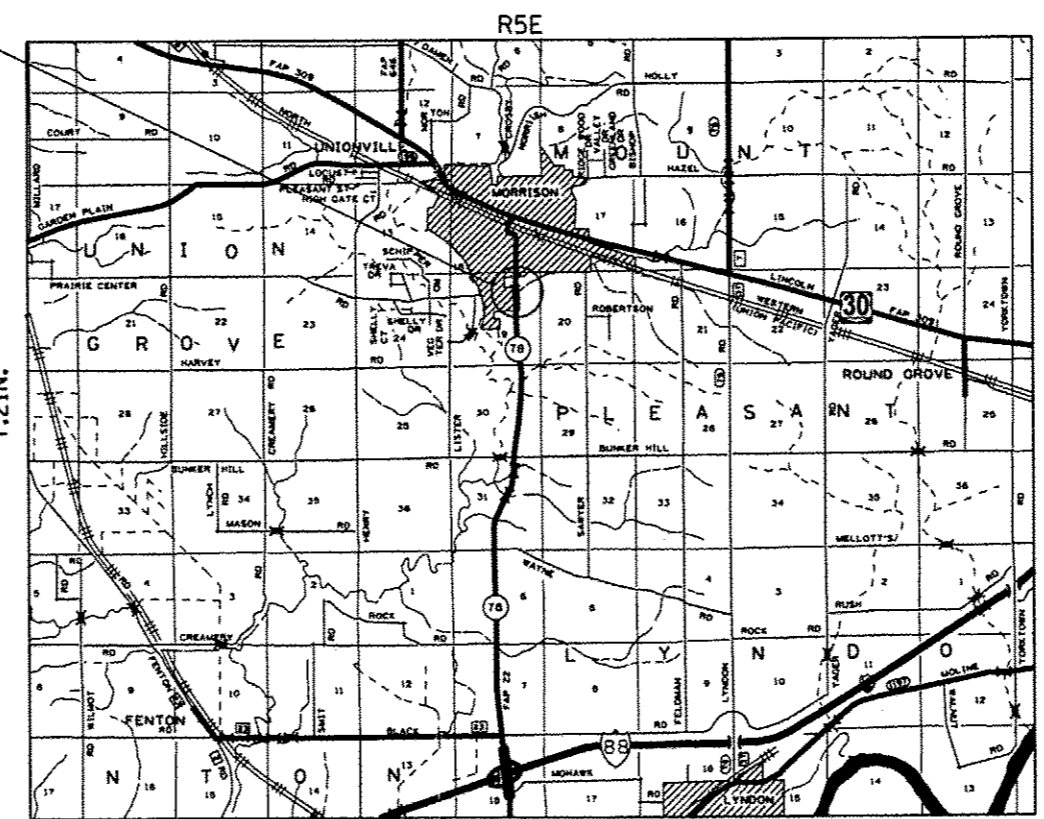
FOR INDEX OF SHEETS AND STATE STANDARDS, SEE SHEET NO. 2

**SECTION BEGINS**  
 STA. 901 + 97  
**IMPROVEMENT BEGINS**  
 STA. 901 + 75

**STA. 910 + 17.00 - SPECIAL BRIDGE DESIGN**  
 3-SPAN 16" CONCRETE SLAB  
 97'-1 1/4" BK.-BK. ABUTS. LENGTH  
 PROPOSED S.N. 098-0118  
 EXISTING S.N. 098-0001

**SECTION ENDS**  
 STA. 917 + 80  
**IMPROVEMENT ENDS**  
 STA. 917 + 80

C-92-178-12



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD 20' 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

MOUNT PLEASANT TOWNSHIP, SECTION 19

PROJECT ENGINEER: MATTHEW FARMER  
SQUAD LEADER: CHAD SPREEMAN (815)-284-5934

GROSS LENGTH OF PROJECT = 1583 FT. = 0.30 MILE  
NET LENGTH OF PROJECT = 1583 FT. = 0.30 MILE

CONTRACT NO. 64F19

FAP ROUTE 22 (IL 78) SECTION 15BR-1 WHITESIDE COUNTY

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

SUBMITTED June 13<sup>TH</sup> 2014  
*Paul C. [Signature]*  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

July 18 2014  
*John D. Buranelli, P.E.*  
 ENGINEER OF DESIGN AND ENVIRONMENT

July 18 2014  
*Omur Osman, P.E./G*  
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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# STANDARDS

STANDARD NO.	DESCRIPTION
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420401-10	BRIDGE APPROACH PAVEMENT CONNECTOR
515001-03	NAME PLATE FOR BRIDGES
542001-04	CONCRETE END SECTIONS FOR PIPE CULVERTS 15" (375 MM) THRU 84" (2100 MM) DIA.
542011	CONCRETE END SECTIONS FOR ELLIPTICAL PIPE CULVERTS 15" (375 MM) THRU 72" (1800 MM) EQUIVALENT DIA.
542401-01	METAL END SECTION FOR PIPE CULVERTS
542406-01	METAL END SECTION FOR PIPE ARCHES
542546-01	FLUSH INLET BOX FOR MEDIAN
601001-04	SUB-SURFACE DRAINS
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
602401-03	MANHOLE TYPE A
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS TYPE 1
606001-05	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
610001-06	SHOULDER INLET WITH CURB
630001-10	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-12	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-01	DELINEATORS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAIL
666001-01	RIGHT-OF-WAY MARKERS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS $\geq$ 45MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-13	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS $\geq$ 45MPH
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-03	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
780001-04	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT

FILE NAME =	USER NAME = Fosslermj	DESIGNED - _____	REVISED - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS AND STANDARDS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\pwork\dot\fosslermj\d0149594\02	ht-schedule.dgn	DRAWN - _____	REVISED - _____			22	15BR-1	WHITESIDE	146	2	
	PLOT SCALE = 1/8" = 1' / in.	CHECKED - _____	REVISED - _____			CONTRACT NO. 64F19					
Default	PLOT DATE = Fri Jun 13 09:06:16 2014	DATE - _____	REVISED - _____			ILLINOIS FED. AID PROJECT					



# GENERAL NOTES

The Contractor shall supply the Resident Engineer with the manufacturer's installation requirements for the type of Steel Plate Beam Guardrail Terminal Type 1 Special (Tangent) or Steel Plate Beam Guardrail Terminal Type I Special (Flared).

One 16d galvanized nail shall be used to toe nail the wood block out to the wood post on all Traffic Barrier Terminal Type I Specials.

Delineators shall be installed as shown in Standard 635001, except that the post shall be rotated 180° and only metal-backed delineators shall be permitted. Delineators shall be placed at the ends of approach guardrail terminal sections, and at each headwall or end section of AR Culverts. This work will be paid for at the contract unit price each for DELINEATORS.

The Contractor shall be responsible for collecting and maintaining an electronic log of all stakeout survey that is performed on the job, either by him/her or any sub-contractor performing the stakeout. Upon request, all logs shall be submitted to the Department. No additional compensation will be allowed for this work, but shall be considered included in the cost for CONSTRUCTION LAYOUT.

Pavement Marking shall be done according to Standard 780001, except as follows:

1. All words, such as ONLY, shall be 8 feet high.
2. All non-freeway arrows shall be the large size.
3. The distance between yellow no-passing lines shall be 8 inches, not 7 inches, as shown in the detail of Typical Lane and Edge Lines.
4. Centerline Skip Dash Pavement Marking on multi-lane divided, multi-lane undivided, and one-way roadway shall be according to District Standard 41.1.

PERMANENT SURVEY MARKERS, TYPE II, shall be set at intervals of 1 mile or as directed by the Engineer. Bridge or culvert projects shall have one survey marker placed near the structure. Estimated: 2 Each.

Permanent Survey Markers, Type II shall be cast-in-place as shown on District Standard 66.2. Option 2 would be to install a vaulted style, monumented as described by NGS as a 3D monument (Top Security Sleeve Rod Monument), with installation instructions provided by the District Chief of Surveys. If poured in place, the bottom of the marker shall be 5'-0" below the ground surface.

The Permanent Survey Markers, if possible, shall be installed at the beginning of the job and protected throughout.

The Contractor shall submit to the Engineer a description of location, elevation, and coordinates for each permanent survey marker. The horizontal coordinates must be derived by GPS and the elevation derived using an electronic level. The meta data, such as the Geoid used, (NGS adjustment ie: 97 HARN, 03, 07), and the base point(s) name or number shall be submitted along with a complete collection log. If collected using RTK method, it will require either 3 collections (averaged) from 2 different bases, or a minimum of 3 collections (averaged), at least 2 hours apart, from the same base. If using a CORS type network, the collection procedure shall include localizing with check shots on at least 2 different HARN monuments both before and after collection. The level circuit shall be run from furnished mark to furnished mark and then adjusted. The error of closure shall be submitted with the electronic level notes in a recognized format approved by the Engineer and/or the Chief of Surveys. The Engineer shall submit this information to the District Chief of Surveys.

The temporary concrete barrier shall be anchored to the pavement with 3 anchors per section on the traffic side of the barrier wall at the following locations:

Sta. 909+12.5 to 913+42.5 Stage 1

Tree planting layout shall be performed by the District Roadside Management Specialist. Mulch shall be placed 4" thick and to the diameter around the tree as shown on District Standard 92.1. The mulch shall be hardwood wood chips placed on weed barrier fabric. This work shall be included in the cost of the tree.

The trees scheduled for the IL 78 French Creek contract shall be planted in the Morrison City Park adjacent to the project.

Right-of-way markers will be erected per Highway Standard 666001 with the back face of the marker on the right-of-way line unless the new right-of-way line has been surveyed and pinned, in which instance the right-of-way markers will be erected 12 inches inside the new right-of-way line. Method of installation shall be approved by the Engineer.

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

Mediacom (309/743-4750)	Commonwealth Edison Co. (815/490-2869)
NICOR Gas Co. (630/983-8676)	Frontier Legacy (815/772-2078)
iFiber (815/753-6075)	City of Morrison (815/772-7657)
G4S Technology (630/343-2802)	

IDOT is not a member of JULIE. If you are near any overhead lighting, intersection lighting or traffic signals, contact the IDOT Traffic Office at 815/284-5469 at least 48 hours prior to work.

The applicable portions of Article 105.07 of the Standard Specification shall apply except for the following: The Contractor shall be responsible to locate the vertical depths of the underground utilities which may interfere with construction operations. This work will not be measured or paid for separately, but shall be considered as included in the unit bid price for the item of construction involved.

Per SB 699 (90 day utility relocation law), once right-of-way is clear to award the project, a notice will be sent to the utility companies instructing them to have their facilities relocated within 90 days. Estimated date relocation complete = Award Date + 100 days.

CADD data will be available to Contractors and Consultants working on this project. This information will be provided upon request as MicroStation CADD files and Geopak coordinate geometry files ONLY. If data is required in other formats it will be your responsibility to make these conversions. If any discrepancy or inconsistency arises between the electronic data and the information on the hard copy, the information on the hard copy should be used. Contact the District's Project Engineer to request these files.

It shall be the Contractor's responsibility to contact the municipality to determine approved methods of utility structure adjustment. Utility structures may include, but are not limited to, manholes, water valves, handholes, etc. All materials and work necessary to complete adjustments per municipality requirements shall be considered included in the cost of the associated adjustment pay item.

Temporary Impact Attenuators will be measured as each for each attenuator supplied on the job as specified in the plans, and shall include the cost of renting/owning the attenuator for the time required on the job plus hauling to and from the project site, as well as one placement and removal from the roadway. This shall be paid for at the contract unit price per Each for IMPACT ATTENUATORS, TEMPORARY of the type specified.

Relocate Temporary Impact Attenuators will be paid for as Each and will be paid for each time the attenuator is required by staging to be picked up and moved to a different location on the project, whether it is to another location on the roadway or to a storage/staging location for the project. This shall be paid for at the contract unit price per Each for IMPACT ATTENUATORS, RELOCATE of the type specified.

FILE NAME = 64F19.GN.DOCX	USER NAME =	DESIGNED - Engineering Systems	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN -	REVISED -			FAP 22	15BR.1	Whiteside	146	4
	PLOT DATE = 6/12/2014 3:23 PM	CHECKED -	REVISED -			(IL 78)			CONTRACT NO. 84F19	
	DATE = 1/20/2014 10:34 AM	REVISED -						ILLINOIS	FED. AID PROJECT	
				SCALE	SHEET NO.	OF	SHEETS	STA.	TO STA.	



# GENERAL NOTES

This work shall be done in accordance with Section 704 of the Standard Specifications. Temporary Concrete Barrier will be measured in feet along the centerline of the barrier and shall include the cost of renting/owning the barrier for the time required on the job plus hauling to and from the project site, as well as one placement and removal from the roadway in accordance with Section 704 of the Standard Specification. This shall be paid for at the contract unit price per Foot for TEMPORARY CONCRETE BARRIER.

Relocate Temporary Concrete Barrier will be paid for in Feet along the centerline of the barrier, and will be paid for each time the barrier is required by staging to be picked up and moved to a different location on the project, whether it is to another location on the roadway or to a storage/staging location for the project. This shall be paid for at the contract unit price per Foot for RELOCATE TEMPORARY CONCRETE BARRIER.

### COMMITMENTS:

1. Two Trees – one at approximately Lt. Sta. 919+10 and one at approximately Lt. Sta. 919+70 shall be saved during construction. These trees shall be marked "To Be Saved" on the contract plan sheets.
2. Access to the park shall be kept open at all times.
3. No construction activities shall take place beyond construction limits in the park. This includes driving and parking vehicles and equipment and stockpiling materials.

FILE NAME = 64F19.GN.DOCX	USER NAME =	DESIGNED - Engineering Systems	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES</b>	ROUTE	SECTION	COUNTY	LEGAL PAGES	SHEET NO.
	PLOT SCALE =	CHECKED -	REVISED -			FAP 22	15BR-1	Whiteside	146	5
	PLOT DATE = 6/12/2014 3:23 PM	DATE = 1/23/2014 10:34 AM	REVISED -			(IL 78)	CONTRACT NO. 64F19		ILLINOIS	
				SCALE	SHEET NO.	OF	SHEETS	STA.	TO STA.	

# SUMMARY OF QUANTITIES

07POL 07POL 07C 02

CODE NUMBER		UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				100% STATE		20% CITY OF MORRISON
				ROADWAY 0004 URBAN	SN 098-0118 0011 URBAN	ROADWAY 0028 URBAN
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	74	74	0	0
20200100	EARTH EXCAVATION	CU YD	3,190	3,190	0	0
25000100	SEEDING, CLASS 1	ACRE	1.5	1.5	0	0
25000210	SEEDING, CLASS 2A	ACRE	0.75	0.75	0	0
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	175	175	0	0
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	175	175	0	0
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	175	175	0	0
25000750	MOWING	ACRE	2	2	0	0
25100630	EROSION CONTROL BLANKET	SQ YD	9,254	9,254	0	0
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1,167	1,167	0	0
28000305	TEMPORARY DITCH CHECKS	FOOT	251	251	0	0
28000400	PERIMETER EROSION BARRIER	FOOT	1,454	1,454	0	0
28000500	INLET AND PIPE PROTECTION	EACH	6	6	0	0
28100107	STONE RIPRAP, CLASS A4	SQ YD	20	20	0	0
28100109	STONE RIPRAP, CLASS A5	SQ YD	410	0	410	0
28200200	FILTER FABRIC	SQ YD	430	20	410	0
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	3,710	3,660	0	50
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	1,390	1,112	0	278
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	541	541	0	0
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	559	559	0	0
<del>40600895</del>	<del>CONSTRUCTING TEST STRIP</del>	<del>EACH</del>	<del>2</del>	<del>2</del>	<del>0</del>	<del>0</del>
40600990	TEMPORARY RAMP	SQ YD	93	93	0	0
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	376	376	0	0
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	606	606	0	0
40603415	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, N50	TON	145	116	0	29
40800050	INCIDENTIAL HOT-MIX ASPHALT SURFACING	TON	54	54	0	0
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	71	71	0	0
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	242	194	0	48
42400800	DETECTABLE WARNINGS	SQ FT	40	32	0	8
44000100	PAVEMENT REMOVAL	SQ YD	113	113	0	0
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	3,068	3,068	0	0
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	68	68	0	0
44000600	SIDEWALK REMOVAL	SQ FT	26	21	0	5
44004250	PAVED SHOULDER REMOVAL	SQ YD	59	59	0	0

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\* SPECIALITY ITEM

†100% CITY OF MORRISON (07POL)

FILE NAME *	USER NAME = Fossilermj	DESIGNED - _____	REVISED - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
crhp_worh\pwidat\fosslermj\ad014994\02	htr-schedule.dgn	DRAWN - _____	REVISED - _____			22	150R-1	WHITESIDE	146	6	
	PLOT SCALE = 1/8" = 1' IN.	CHECKED - _____	REVISED - _____			CONTRACT NO. 64F19					
Default	PLOT DATE = Fri Jun 12 10:01:08 2014	DATE - _____	REVISED - _____			[ILLINOIS] FED. AID PROJECT					

Rev.

# SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				100% STATE		20% CITY OF MORRISON
				ROADWAY 0004 URBAN	SN 098-0118 0011 URBAN	ROADWAY 0028 URBAN
48203023	HOT-MIX ASPHALT SHOULDERS, 6 1/2"	SQ YD	2,479	2,436	0	43
48300300	PORTLAND CEMENT CONCRETE SHOULDERS 8"	SQ YD	37	37	0	0
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	0	1	0
50200100	STRUCTURE EXCAVATION	CU YD	235	0	235	0
50200300	COFFERDAM EXCAVATION	CU YD	180	0	180	0
50201101	COFFERDAM (TYPE 1) (LOCATION - 1)	EACH	1	0	1	0
50201102	COFFERDAM (TYPE 1) (LOCATION - 2)	EACH	1	0	1	0
50300225	CONCRETE STRUCTURES	CU YD	186.8	0	186.8	0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	462.8	0	462.8	0
50300260	BRIDGE DECK GROOVING	SQ YD	660	0	660	0
50300280	CONCRETE ENCASEMENT	CU YD	9.8	0	9.8	0
50300300	PROTECTIVE COAT	SQ YD	1,050	0	1,050	0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	125,200	0	125,200	0
50800515	BAR SPLICERS	EACH	456	0	456	0
50901720	BICYCLE RAILING	FOOT	191	28	156	7
50901750	PARAPET RAILING	FOOT	152	0	152	0
51200958	FURNISHING METAL SHELL PILES 14" X 0.250"	FOOT	1,286	0	1,286	0
51202305	DRIVING PILES	FOOT	1,286	0	1,286	0
51203200	TEST PILE METAL SHELLS	EACH	4	0	4	0
51500100	NAME PLATES	EACH	1	0	1	0
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2	0	0
542A5491	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36"	FOOT	116	116	0	0
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	121	121	0	0
542D5476	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 21"	FOOT	207	207	0	0
542D5479	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 24"	FOOT	53	53	0	0
542D5485	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 30"	FOOT	40	40	0	0
54213447	END SECTIONS 12"	EACH	2	2	0	0
54214296	END SECTIONS, EQUIVALENT ROUND-SIZE 21"	EACH	4	4	0	0
54215408	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 8"	EACH	1	1	0	0
54215410	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 10"	EACH	1	1	0	0
54215412	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 12"	EACH	1	1	0	0
54244405	FLUSH INLET BOX FOR MEDIAN, STANDARD 542546	EACH	2	2	0	0
54260311	TRAVERSABLE PIPE GRATE	FOOT	181	181	0	0
54261615	CONCRETE END SECTION, STANDARD 542001, 15", 1:6	EACH	1	1	0	0

\* SPECIALITY ITEM    Δ NP 100% STATE    † 100% CITY OF MORRISON

FILE NAME *	USER NAME * Faslerm	DESIGNED - _____	REVISED - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P. RTE. *	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cr:\pwork\pvidot\Faslerm\02149594\02	shtr-schedule.dgn	DRAWN - _____	REVISED - _____			22	15BR-1	WHITESIDE	146	7
Default	PLOT SCALE * 42.0000 1/16 in.	CHECKED - _____	REVISED - _____			CONTRACT NO. 64F19				
	PLOT DATE * Fri Jun 13 10:02:01 2014	DATE - _____	REVISED - _____	SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____						

# SUMMARY OF QUANTITIES

CONSTRUCTION CODE		
100% STATE		20% CITY OF MORRISON
ROADWAY 0004 URBAN	SN 098-0118 0011 URBAN	ROADWAY 0028 URBAN

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	100% STATE ROADWAY 0004 URBAN	SN 098-0118 0011 URBAN	20% CITY OF MORRISON ROADWAY 0028 URBAN
54263618	CONCRETE END SECTION, STANDARD 542011, 18", 1:6	EACH	2	2	0	0
54263624	CONCRETE END SECTION, STANDARD 542011, 24", 1:6	EACH	2	2	0	0
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	62	0	62	0
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	2	2	0	0
60100080	FRENCH DRAINS	CU YD	3	3	0	0
60100925	PIPE DRAINS 8"	FOOT	20	20	0	0
60100935	PIPE DRAINS 10"	FOOT	20	20	0	0
60100945	PIPE DRAINS 12"	FOOT	82	82	0	0
60107600	PIPE UNDERDRAINS 4"	FOOT	1,934	1,934	0	0
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	55	55	0	0
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	0	0
† 60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	0	0	1
60608562	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12	FOOT	28	28	0	0
60900515	CONCRETE THRUST BLOCKS	EACH	2	2	0	0
61000115	TYPE E INLET BOX, STANDARD 610001	EACH	2	2	0	0
61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	20	20	0	0
61133200	FIELD TILE JUNCTION VAULTS, 3' DIA.	EACH	1	1	0	0
• 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	125	125	0	0
• 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	0	0
• 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1(SPECIAL) TANGENT	EACH	2	2	0	0
• 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1(SPECIAL) FLARED	EACH	2	2	0	0
63200310	GUARDRAIL REMOVAL	FOOT	675	675	0	0
63500105	DELINEATORS	EACH	21	21	0	0
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	14	14	0	0
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	2	2	0	0
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	10	10	0	0
67100100	MOBILIZATION	L SUM	1	1	0	0
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	0	0
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	0	0
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	0	0
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1	0	0
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	10	0	0
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	0	0
70106700	TEMPORARY RUMBLE STRIPS	EACH	3	3	0	0

• SPECIALITY ITEM    △ NP 100% STATE    † 100% CITY OF MORRISON

FILE NAME =	USER NAME = Fossternj	DESIGNED - _____	REVISED - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\p\work\p\dot\Fossternj\02149594\02	hnt-schedule.dgn	DRAWN - _____	REVISED - _____			22	150R-1	WHITESIDE	146	8	
Default	PLOT SCALE = 1/8" = 1' / in.	CHECKED - _____	REVISED - _____			SCALE: _____ SHEET _____ OF _____ SHEETS		STA. _____ TO STA. _____		CONTRACT NO. 64F19	
	PLOT DATE = Fri Jun 13 10:22:20 2014	DATE - _____	REVISED - _____			ILLINOIS FED. AID PROJECT					



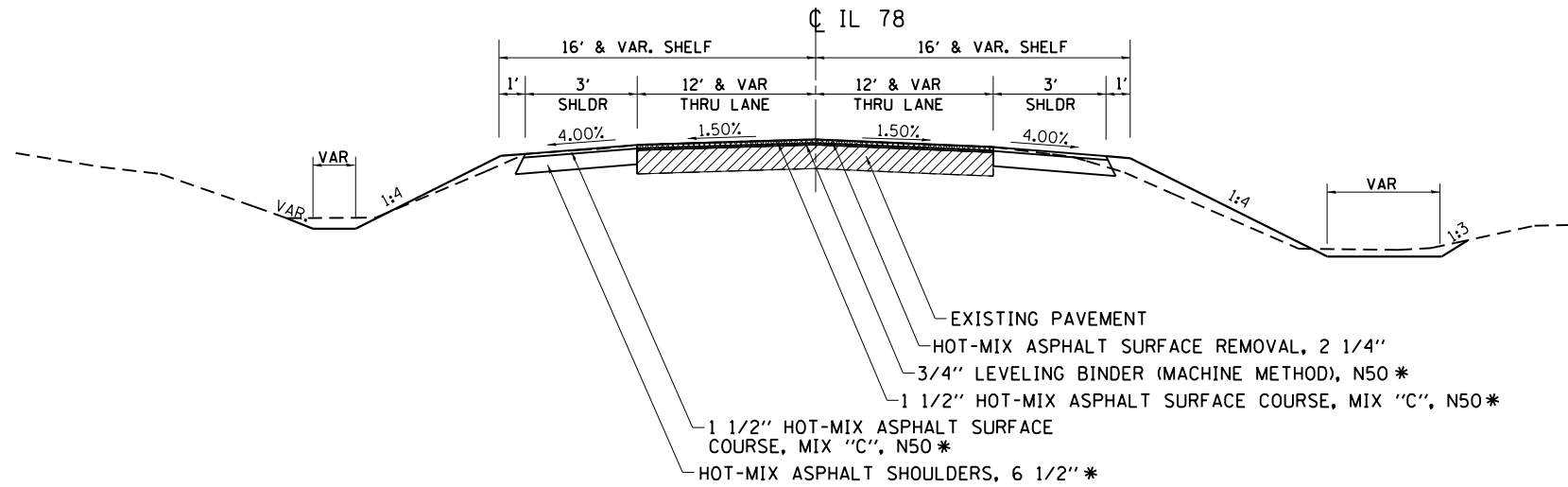
# SUMMARY OF QUANTITIES

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				100% STATE		20% CITY OF MORRISON
				ROADWAY 0004 URBAN	SN 098-0118 0011 URBAN	ROADWAY 0028 URBAN
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	493	493	0	0
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	4,671	4,671	0	0
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	47	47	0	0
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1,734	1,734	0	0
70400100	TEMPORARY CONCRETE BARRIER	FOOT	737.5	737.5	0	0
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	737.5	737.5	0	0
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	0	0
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	0	0
* 72000100	SIGN PANEL - TYPE 1	SQ FT	90	72	0	18
* 73000100	WOOD SIGN SUPPORT	FOOT	272	218	0	54
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	811	811	0	0
* 78100100	RAISED REFLECTIVE PAVEMENT MARKERS	EACH	21	21	0	0
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	10	10	0	0
* 78200520	BARRIER WALL MARKERS, TYPE B	EACH	6	6	0	0
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	0	0
78300100	PAVEMENT MARKING REMOVAL	SQ FT	1,245	1,245	0	0
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	9	9	0	0
* A2000114	TREE, ACER X FREEMANII AUTUMN BLAZE (AUTUMN BLAZE FREEMAN MAPLE), 1-3/4" CALIPER, BALLED AND BURLAPPE	EACH	8	8	0	0
X4060110	BITUMINOUS MATERIALS (PRIME COAT)	POUND	5,274	5,143	0	131
X5091725	BICYCLE RAILING, SPECIAL	FOOT	145	116	0	29
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	122	0	122	0
X6060097	CLASS SI CONCRETE (OUTLET), SPECIAL	CU YD	2.5	2.5	0	0
X6060505	CONCRETE CURB (SPECIAL)	FOOT	40	40	0	0
* X7801004	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3,872	3,872	0	0
* X7801012	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	130	130	0	0
* X7801024	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	41	41	0	0
* X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	3,872	3,872	0	0
* X7830078	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	130	130	0	0
* X7830090	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	41	41	0	0
Z0004552	APPROACH SLAB REMOVAL	SQ YD	143	143	0	0
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	0	0
Z0025505	PROPERTY MARKERS	EACH	2	2	0	0
Z0026407	TEMPORARY SHEET PILING	SQ FT	840	0	840	0
Z0028415	GEOTECHNICAL REINFORCEMENT	SQ YD	1,908	1,908	0	0
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	180	0	180	0
Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	55	0	55	0

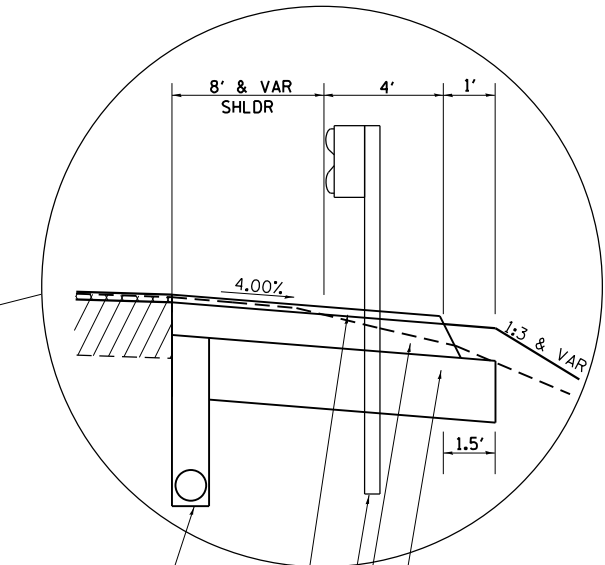
\* SPECIALITY ITEM  
 Δ NP 100% STATE  
 † 100% CITY OF MORRISON

# TYPICAL SECTIONS

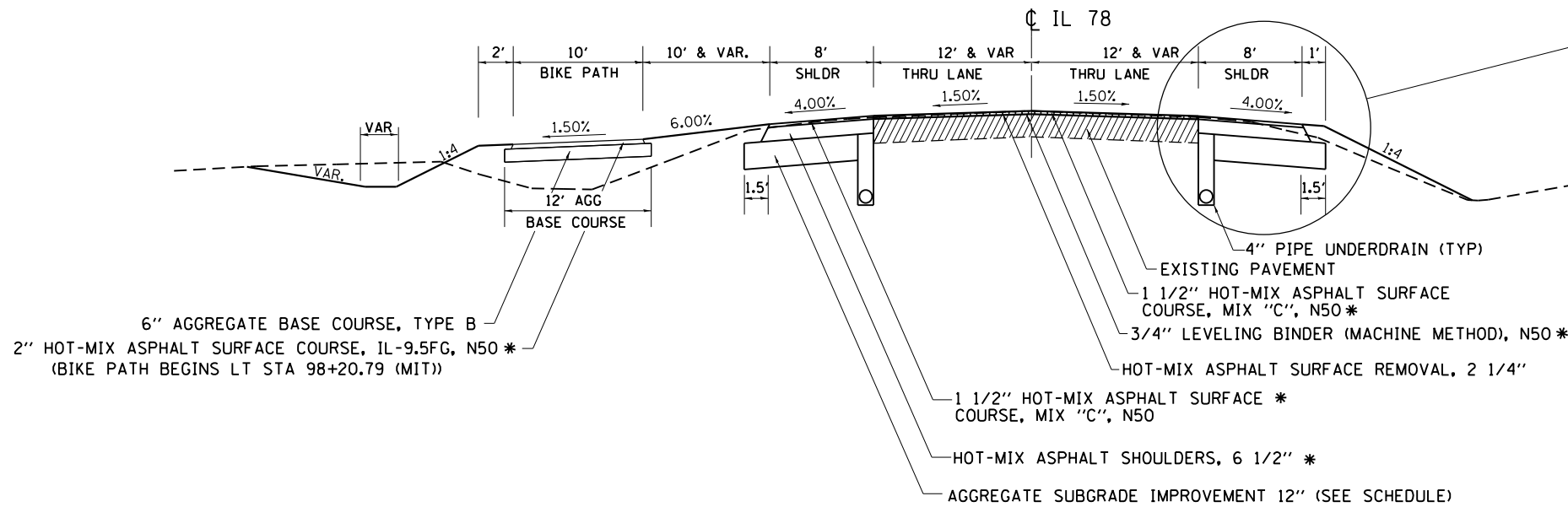
IL RTE 78  
 STA 901+97 - 902+42  
 STA 902+42 - 905+90



IL RTE 78  
 RT STA 908+18.07 - 909+25  
 LT STA 908+29.75 - 909+25



IL RTE 78  
 STA 905+90 - 909+25  
 STA 913+93 - 914+20 \*\*



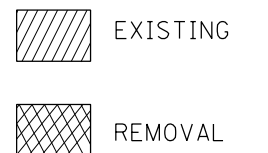
4" PIPE UNDERDRAIN (TYP)  
 1 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 \*\*\*  
 STEEL PLATE BEAM GUARDRAIL, TYPE A  
 HOT-MIX ASPHALT SHOULDERS, 6 1/2" \*\*\*  
 AGGREGATE SUBGRADE IMPROVEMENT 12" (SEE SCHEDULE)

6" AGGREGATE BASE COURSE, TYPE B  
 2" HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, N50 \*  
 (BIKE PATH BEGINS LT STA 98+20.79 (MIT))

**NOTES**

- \* 112 LB/SQ YD IN
- \*\* CONTAINS VARIABLE DEPTH LEVELING BINDER (MACHINE METHOD), N50
- \*\*\* PCC SHOULDERS 8" FROM STA 909+12.49 - 909+25

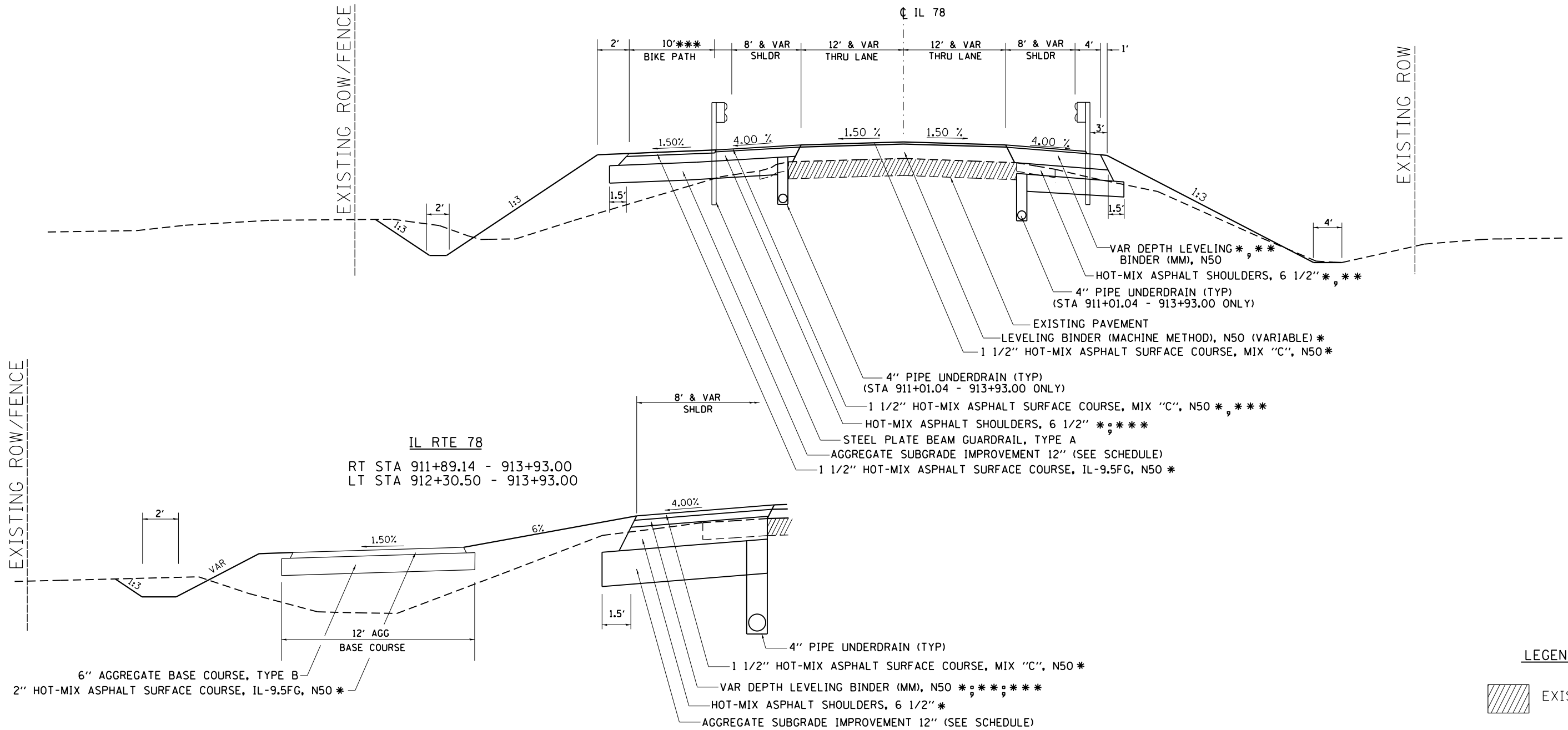
**LEGEND**



FILE NAME =	USER NAME = Fasslermj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ce:\pw\work\p\midot\fasslermj\0149594\0208209-sh-typical.dgn	DRAWN -	REVISED -	REVISED -					22	15BR-1	WHITESIDE	146	10
PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -	REVISED -		CONTRACT NO. 64F19							
PLOT DATE = Fri Jun 13 08:43:47 2014	DATE -	REVISED -	REVISED -		SCALE: _____ SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____			FED. ROAD DIST. NO. _   ILLINOIS   FED. AID PROJECT				

# TYPICAL SECTIONS

IL RTE 78  
 STA 909+25 - 909+32  
 STA 911+01 - 913+93

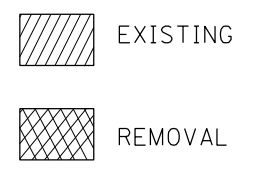


EXISTING ROW/FENCE

EXISTING ROW/FENCE

EXISTING ROW

**LEGEND**



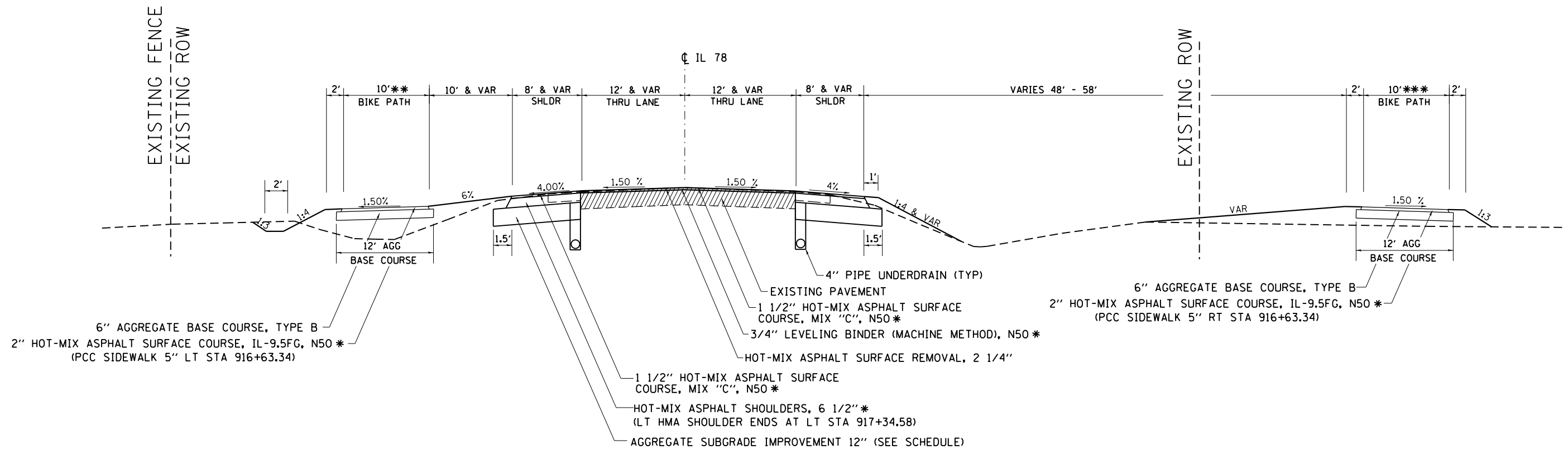
**NOTES**

- \* 112 LB/SO YD IN
- \*\* SHOULDER PROFILING WEDGE (VARIABLE DEPTH) FROM RT STA 911+75 - 914+00 & LT STA 913+00 - 913+75
- \*\*\* PCC SHOULDERS 8" FROM LT STA 909+25 - 909+29 & RT STA 909+25 - 909+38
- \*\*\*\* BIKE PATH CONFIGURATION IS FROM LT STA 908+17 - 909+17 & LT STA 910+93 - 912+07

FILE NAME =	USER NAME = Fasslermj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwork\pwork\dot\fasslermj\0149594\0208209-shit-typical.dgn	DRAWN -	REVISED -	REVISED -					22	15BR-1	WHITESIDE	146	11
PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -	REVISED -		SCALE: _____ SHEET NO. ____ OF ____ SHEETS STA. _____ TO STA. _____			CONTRACT NO. 64F19				
PLOT DATE = Fri Jun 13 08:44:18 2014	DATE -	REVISED -	REVISED -		FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT							

# TYPICAL SECTIONS

IL RTE 78  
STA 914+20 - 917+80



**NOTES**

- \* 112 LB/SO YD IN
- \*\* BIKE PATH ENDS AT LT STA 916+73.34
- \*\*\* BIKE PATH BEGINS AT RT STA 914+60 AND ENDS AT RT STA 916+92

**LEGEND**

-  EXISTING
-  REMOVAL

FILE NAME =	USER NAME = Fasslermj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ce:\pw\work\p\dot\fasslermj\0149594\0208209-shit-typical.dgn	DRAWN -	REVISED -	REVISED -					22	15BR-1	WHITESIDE	146	12
PLOT SCALE = 100.0000' / 1" =	CHECKED -	REVISED -	REVISED -		CONTRACT NO. 64F19			FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT				
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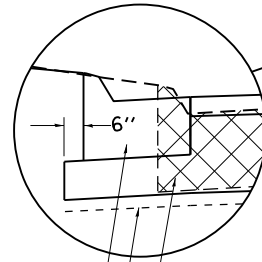
# TYPICAL SECTIONS

## MORRISON INSTITUTE OF TECHNOLOGY (MIT) ENTRANCE

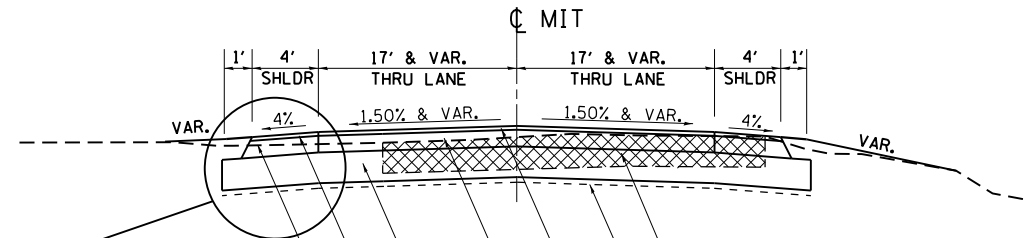
STA 99+02.24 - STA 99+87.48

## MORRISON INSTITUTE OF TECHNOLOGY (MIT) ENTRANCE

LT STA 99+02.24 - STA 99+34.93  
RT STA 99+02.24 - STA 99+25.78



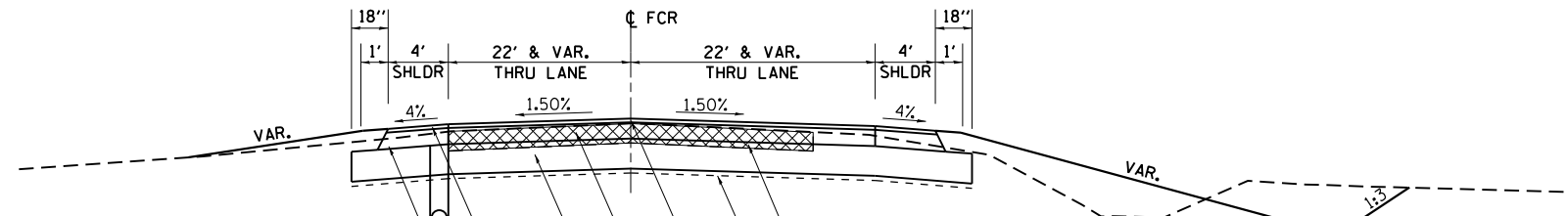
COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12  
GEOTECHNICAL REINFORCEMENT  
AGGREGATE SUBGRADE IMPROVEMENT 12" (SEE SCHEDULE)



EXISTING PAVEMENT \*\*  
GEOTECHNICAL REINFORCEMENT  
1 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 \*  
6 1/2" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 \* (2 LIFTS)  
AGGREGATE SUBGRADE IMPROVEMENT 12" (SEE SCHEDULE)  
1 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 \*  
HOT-MIX ASPHALT SHOULDERS, 6 1/2" \*

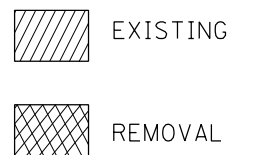
## FRENCH CREEK ROAD (FCR)

STA 100+12.39 - STA 101+55.56



EXISTING PAVEMENT \*\*  
GEOTECHNICAL REINFORCEMENT  
1 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 \*  
6 1/2" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (2 LIFTS) \*  
AGGREGATE SUBGRADE IMPROVEMENT 12" (SEE SCHEDULE)  
1 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 \*  
4" PIPE UNDERDRAIN (TYP)  
HOT-MIX ASPHALT SHOULDERS, 6 1/2" \*

### LEGEND



### NOTES

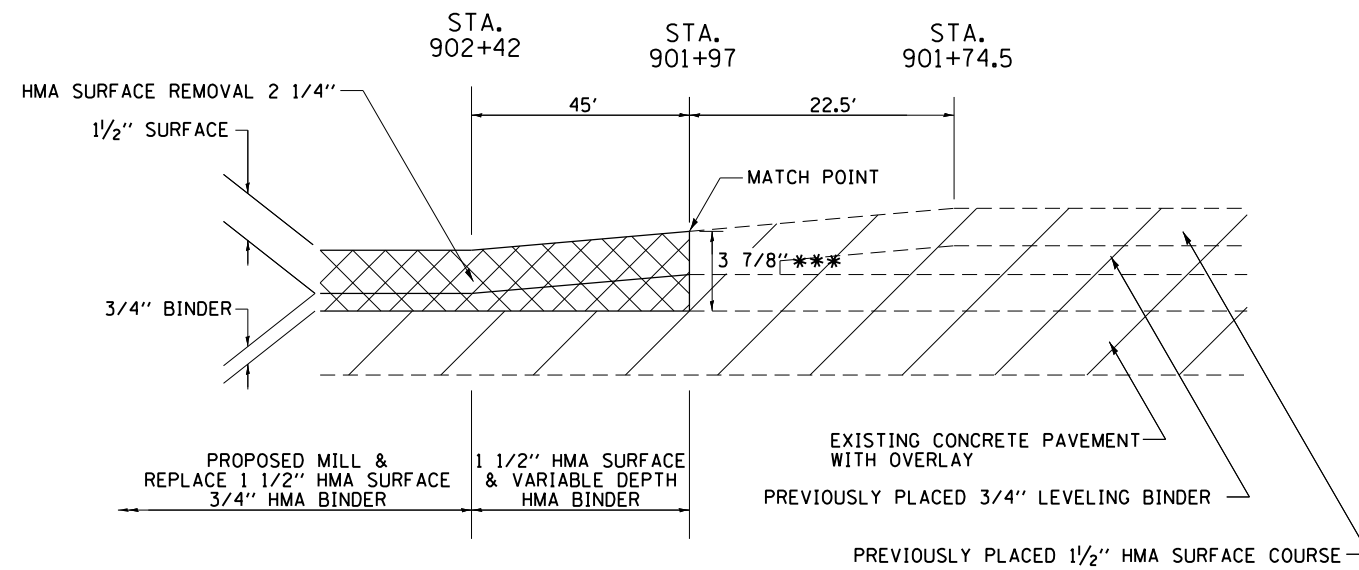
\* 112 LB/SQ YD IN  
\*\* REMOVAL INCLUDED IN THE COST FOR EARTH EXCAVATION

FILE NAME =	USER NAME = Fasslermj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ce:\pwork\pwork\pwork\fasslermj\0149594\0208209-shit-typical.dgn	DRAWN -	REVISED -	22			15BR-1	WHITESIDE	146	13	
PLOT SCALE = 100.0000' / 1" .	CHECKED -	REVISED -	CONTRACT NO. 64F19							
PLOT DATE = Fri Jun 13 08:45:00 2014	DATE -	REVISED -	FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT							

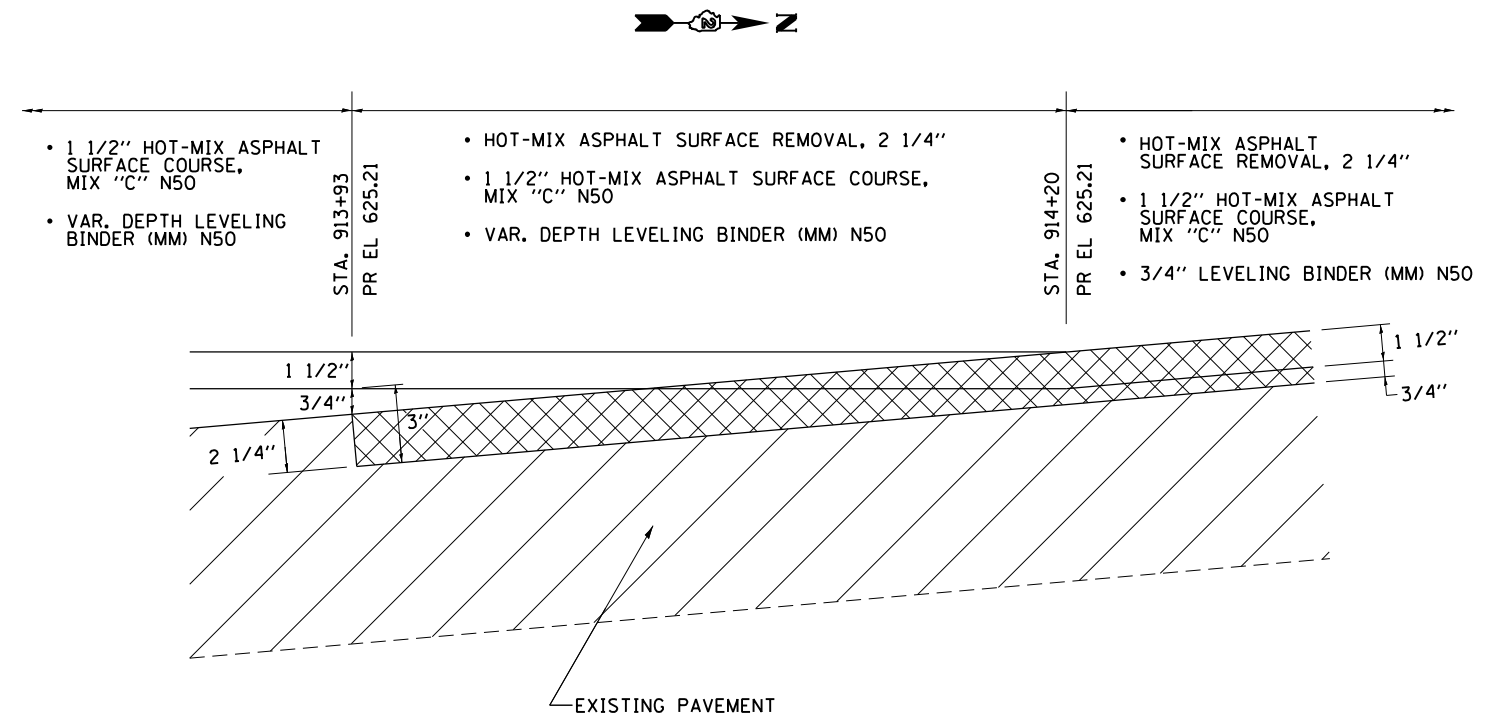
# TYPICAL SECTIONS

## TYPICAL TAPER

IL ROUTE 78  
MATCH TO PREVIOUSLY COMPLETED  
PROJECTS BUTT-JOINT (DETAIL)





## DETAIL FOR NORTH END TRANSITION



### NOTES

- \* 112 LB/SQ YD IN
- \*\* REMOVAL INCLUDED IN THE COST FOR EARTH EXCAVATION
- \*\*\* THE EXTRA THICKNESS OF REMOVAL SHALL BE INCLUDED IN THE COST OF HMA SURFACE REMOVAL 2 1/4" (STA 901+97 - 902+42)

### LEGEND

-  EXISTING
-  REMOVAL

FILE NAME =	USER NAME = Fasslermj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTIONS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwork\pwork\pwork\fasslermj\0149594\0208209-shit-typical.dgn	DRAWN -	REVISED -	22			15BR-1	WHITESIDE	146	14	
PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -	CONTRACT NO. 64F19							
PLOT DATE = Fri Jun 13 08:45:19 2014	DATE -	REVISED -	FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT							

# SCHEDULE OF QUANTITIES

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

UNIT	LOCATION	COMMENTS
IL ROUTE 78		
8.3	Rt. Sta. 904 + 99	41.1' o/s
6.6	Rt. Sta. 904 + 99	41.1' o/s
9.5	Rt. Sta. 904 + 99	41.1' o/s
10.8	Rt. Sta. 916 + 60	41.4' o/s
10.0	Rt. Sta. 916 + 60	41.4' o/s
8.4	Rt. Sta. 916 + 60	41.4' o/s
9.5	Rt. Sta. 916 + 60	41.4' o/s
11.0	Rt. Sta. 916 + 60	41.4' o/s
74	TOTAL	

28000305 TEMPORARY DITCH CHECKS

FOOT	LOCATION	COMMENTS
IL ROUTE 78		
8	Rt. Sta. 902 + 00	33' o/s
8	Lt. Sta. 902 + 25	29' o/s
14	Rt. Sta. 904 + 00	33' o/s
14	Lt. Sta. 904 + 50	29' o/s
14	Rt. Sta. 905 + 00	37' o/s
14	Lt. Sta. 905 + 50	38' o/s
21	Lt. Sta. 907 + 75	63' o/s
18	Rt. Sta. 908 + 00	59' o/s
16	Lt. Sta. 908 + 75	63' o/s
14	Rt. Sta. 909 + 00	48' o/s
10	Lt. Sta. 911 + 00	52' o/s
14	Rt. Sta. 911 + 00	50' o/s
10	Lt. Sta. 912 + 00	53' o/s
10	Rt. Sta. 912 + 00	51' o/s
8	Lt. Sta. 913 + 00	51' o/s
8	Lt. Sta. 914 + 00	49' o/s
8	Lt. Sta. 915 + 00	50' o/s
10	Rt. Sta. 915 + 50	34' o/s
8	Lt. Sta. 916 + 00	49' o/s
227	SUB-TOTAL (IL ROUTE 78)	
MIT ENTRANCE/FRENCH CREEK ROAD		
10	Lt. Sta. 99 + 00	49' o/s
14	Rt. Sta. 101 + 00	34' o/s
24	SUB-TOTAL (MIT ENTRANCE/FRENCH CREEK ROAD)	
251	TOTAL	

28000400 PERIMETER EROSION BARRIER

FOOT	LOCATION	COMMENTS
IL ROUTE 78		
48.9	Rt. Sta. 901 + 76	- 902 + 24 35.5' o/s To 37.9' o/s
85.5	Lt. Sta. 901 + 94	- 902 + 77 38.7' o/s To 41.9' o/s
443.4	Rt. Sta. 902 + 75	- 101 + 77 37.4' o/s To 35.2' o/s
245.9	Lt. Sta. 903 + 58	- 906 + 00.3 38.1' o/s To 63.2' o/s
101.3	Rt. Sta. 908 + 100	- 910 + 00.0 55.9' o/s To 57.0' o/s
408.9	Rt. Sta. 910 + 60.2	- 914 + 49.2 58.2' o/s To 60.0' o/s
1,334	SUB-TOTAL (IL ROUTE 78)	
FRENCH CREEK ROAD		
119.7	Lt. Sta. 100 + 74.0	- 101 + 57.5 70.0' o/s To 23.1' o/s
120	SUB-TOTAL (FRENCH CREEK ROAD)	
1,454	TOTAL	

28000500 INLET AND PIPE PROTECTION

EACH	LOCATION	COMMENTS
IL ROUTE 78		
1	Rt. Sta. 902 + 14	32.2' o/s
1	Lt. Sta. 902 + 78	30.38' o/s
1	Lt. Sta. 906 + 15	43.95' o/s
1	Rt. Sta. 906 + 19	57.12' o/s
1	Lt. Sta. 906 + 70	49.60' o/s
1	Rt. Sta. 916 + 75	31.22' o/s
6	TOTAL	

28100107 STONE RIPRAP CLASS A4

SQ YD	LOCATION	COMMENTS
IL ROUTE 78		
20	Rt. Sta. 907 + 06	- 907 + 18
20	TOTAL	

28100109 STONE RIPRAP CLASS A5

SQ YD	LOCATION	COMMENTS
IL ROUTE 78		
410	SN 098-0118	See Bridge Plans
410	TOTAL	

28200200 FILTER FABRIC

SQ YD	LOCATION	COMMENTS
IL ROUTE 78		
20	Rt. Sta. 906 + 06.1	- 907 + 18.10
410	SN 098-0118	See Bridge Plans
430	TOTAL	

42001420 BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)

SQ YD	LOCATION	COMMENTS
IL ROUTE 78		
35.5	Sta. 909 + 32.96	- 909 + 38.96 SN 098-0118
35.4	Sta. 910 + 95.04	- 911 + 01.04 SN 098-0118
71	TOTAL	

42400800 DETECTABLE WARNINGS

SQ FT	LOCATION	COMMENTS
IL ROUTE 78		
20	Lt. Sta. 916 + 58.34	- 916 + 73.34 Mid-Block Crossing
20	Rt. Sta. 916 + 58.34	- 916 + 73.34 Mid-Block Crossing
32	100% STATE SUB-TOTAL	
8	20% CITY OF MORRISON SUB-TOTAL	
40	GRAND TOTAL	

44000100 PAVEMENT REMOVAL

SQ YD	LOCATION	COMMENTS
IL ROUTE 78		
14.0	Sta. 909 + 29	- 909 + 37.5
99.0	Sta. 910 + 68.50	- 911 + 04.80
113	TOTAL	

44000500 COMBINATION CURB AND GUTTER REMOVAL

FOOT	LOCATION	COMMENTS
MIT ENTRANCE		
35	Lt. Sta. 99 + 02	- 99 + 37 MIT Entrance
33	Rt. Sta. 99 + 02	- 99 + 35 MIT Entrance
68	TOTAL	

44000600 SIDEWALK REMOVAL

SQ FT	LOCATION	COMMENTS
IL ROUTE 78		
26	Rt. Sta. 917 + 15.4	- 917 + 20.4
21	100% STATE SUB-TOTAL	
5	20% CITY OF MORRISON SUB-TOTAL	
26	GRAND TOTAL	

44004250 PAVED SHOULDER REMOVAL

SQ YD	LOCATION	COMMENTS
IL ROUTE 78		
58.7	Rt. Sta. 907 + 96	- 909 + 00
59	TOTAL	

50901720 BICYCLE RAILING

FOOT	LOCATION	COMMENTS
IL ROUTE 78		
15.3	Lt. Sta. 909 + 14.29	- 909 + 30.50 See "Bike Path Bridge Railing Extension" for Details
156.1	Lt. Sta. 909 + 30.50	- 910 + 86.57 See "Bike Path Bridge Railing Extension" for Details
19.3	Lt. Sta. 910 + 86.57	- 911 + 06.81 See "Bike Path Bridge Railing Extension" for Details
28	100% STATE SUB-TOTAL - ROADWAY	
156	100% STATE SUB-TOTAL - SN 098-0118	
7	20% CITY OF MORRISON SUB-TOTAL	
191	GRAND TOTAL	

54001001 BOX CULVERT END SECTIONS, CULVERT NO. 1

EACH	LOCATION	COMMENTS
FRENCH CREEK ROAD		
2	Rt. & Lt. Sta. 100 + 58.38	See "Precast Culvert End Sections with Pipe Grates" Detail
2	TOTAL	

# SCHEDULE OF QUANTITIES

542A5491 PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36"

FOOT	LOCATION
	FRENCH CREEK ROAD
116	Sta. 100 + 58.38
116	TOTAL

542D0223 PIPE CULVERTS, CLASS D, TYPE 1 118"

FOOT	LOCATION
	IL ROUTE 78
24	Rt. Sta. 916 + 50 - 916 + 74
97	Rt. Sta. 916 + 77 - 916 + 74
121	TOTAL

542D5476 PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 21"

FOOT	LOCATION	COMMENTS
	IL ROUTE 78	
105	Lt. Sta. 906 + 20.20 - 907 + 21.91	West Pipe
102	Lt. Sta. 906 + 20.20 - 907 + 21.91	East Pipe
207	TOTAL	

542D5479 PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 24"

FOOT	LOCATION	COMMENTS
	IL ROUTE 78	
53	Sta. 902 + 92.29 - 903 + 44.58	CE
53	TOTAL	

542D5485 PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 30"

FOOT	LOCATION	COMMENTS
	IL ROUTE 78	
40	Sta. 902 + 33 - 910 + 73	FE
40	TOTAL	

54213447 END SECTIONS 12"

EACH	LOCATION	COMMENTS
	IL ROUTE 78	
1	Rt. Sta. 909 + 19.97	Outlet for "TYPE E INLET BOX"
1	Lt. Sta. 909 + 19.97	Outlet for "TYPE E INLET BOX"
2	TOTAL	

54214296 END SECTIONS, EQUIVALENT ROUND-SIZE 21"

EACH	LOCATION	COMMENTS
	IL ROUTE 78	
1	Lt. Sta. 906 + 19.86	47.12' o/s
1	Lt. Sta. 906 + 20.54	42.53' o/s
1	Lt. Sta. 907 + 21.57	61.61' o/s
1	Lt. Sta. 907 + 22.24	57.03' o/s
4	TOTAL	

54215408 CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 8"

EACH	LOCATION	COMMENTS
1	Contingency for Field Tile	
1	TOTAL	

54215410 CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 10"

EACH	LOCATION	COMMENTS
1	Contingency for Field Tile	
1	TOTAL	

54215412 CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 12"

EACH	LOCATION	COMMENTS
1	Contingency for Field Tile	
1	TOTAL	

54244405 FLUSH INLET BOX FOR MEDIAN, STANDARD 542546

EACH	LOCATION	COMMENTS
	IL ROUTE 78	
1	Rt. Sta. 916 + 75.00	31.5' o/s
1	SUB-TOTAL (IL ROUTE 78)	
	MIT ENTRANCE	
1	Lt. Sta. 99 + 53.11	20.9' o/s
1	SUB-TOTAL (MIT ENTRANCE)	
2	TOTAL	

54260311 TRAVERSABLE PIPE GRATE

FOOT	LOCATION	COMMENTS
	IL ROUTE 78	
23.33	Rt. Sta. 902 + 33.00	See "Grating for Concrete End Section, 24" 1:6" Detail
23.33	Rt. Sta. 902 + 73.00	See "Grating for Concrete End Section, 24" 1:6" Detail
13.33	Lt. Sta. 902 + 92.29	See "Grating for Concrete End Section, 18" 1:6" Detail
13.33	Lt. Sta. 904 + 44.58	See "Grating for Concrete End Section, 18" 1:6" Detail
10	Rt. Sta. 916 + 50.00	See "Grating for Concrete End Section, 15" 1:6" Detail
84	SUB-TOTAL (IL ROUTE 78)	
	FRENCH CREEK ROAD	
97	Rt. & Lt. Sta. 100 + 58.38	See "Precast Culvert End Sections with Pipe Grates" Detail
97	SUB-TOTAL (FRENCH CREEK ROAD)	
181	TOTAL	

54261615 CONCRETE END SECTION, STANDARD 542001, 15" 1:6

EACH	LOCATION	COMMENTS
	IL ROUTE 78	
1	Rt. Sta. 916 + 50.00	33.2' o/s
1	TOTAL	

54263618 CONCRETE END SECTION, STANDARD 542011, 18" 1:6

EACH	LOCATION	COMMENTS
	IL ROUTE 78	
1	Lt. Sta. 902 + 92.29	CE
1	Lt. Sta. 903 + 44.58	CE
2	TOTAL	

54263624 CONCRETE END SECTION, STANDARD 542011, 24" 1:6

EACH	LOCATION	COMMENTS
	IL ROUTE 78	
1	Rt. Sta. 902 + 33.00	FE
1	Rt. Sta. 902 + 73.00	FE
2	TOTAL	

60100060 CONCRETE HEADWALLS FOR PIPE DRAINS

EACH	LOCATION	COMMENTS
	IL ROUTE 78	
1	Rt. Sta. 913 + 75.00	
1	Lt. Sta. 913 + 75.00	
2	TOTAL	

60100080 FRENCH DRAINS

CUYD	LOCATION	COMMENTS
	IL ROUTE 78	
0.8	Lt. Sta. 906 + 16	IL78, DS 96.4
0.4	Rt. Sta. 906 + 22	IL78, DS 96.4
1.2	SUB-TOTAL (IL ROUTE 78)	
	FRENCH CREEK ROAD	
1.3	Rt. Sta. 101 + 50	FCR, DS 96.4
1.3	SUB-TOTAL (FRENCH CREEK ROAD)	
3	TOTAL	

60100925 PIPE DRAINS 8"

FOOT	LOCATION	COMMENTS
	Contingency for Field Tile	
20	TOTAL	



# SCHEDULE OF QUANTITIES

**60100935 PIPE DRAINS 10"**

FOOT	LOCATION
20	Contingency for Field Tile
20	TOTAL

**60100945 PIPE DRAINS 12"**

FOOT	LOCATION	COMMENTS
	IL ROUTE 78	
29	Rt. Sta. 909 + 19.97	Outlet for "TYPE E INLET BOX"
33	Lt. Sta. 909 + 19.97	Outlet for "TYPE E INLET BOX"
20	Contingency for Field Tile	
82	TOTAL	

**60107600 PIPE UNDERDRAINS 4"**

FOOT	LOCATION	COMMENTS
	IL ROUTE 78	
269.6	Lt. Sta. 906 + 59.94 - 909 + 12.49	IL 78 Mainline ( Cost Included to Tie into pipe culvert Sta. 99+46.02)
253.3	Rt. Sta. 906 + 82.09 - 909 + 12.49	IL 78 Mainline (Cost Included to Tie into pipe culvert Sta. 100+55.77)
640.1	Lt. Sta. 910 + 94.21 - 917 + 34.28	IL 78 Mainline
678.0	Rt. Sta. 911 + 01.96 - 917 + 80.00	IL 78 Mainline
1,841.0	SUB-TOTAL (IL ROUTE 78)	
	FRENCH CREEK ROAD	
93.0	Lt. Sta. 100 + 63.62 - 101 + 55.56	FCR (Cost Included for Slope to Tie into pipe culvert Sta. 100+63.62)
93.0	SUB-TOTAL (FRENCH CREEK ROAD)	
1,934	TOTAL	

**60108100 PIPE UNDERDRAINS 4" (SPECIAL)**

FOOT	LOCATION	COMMENTS
	IL ROUTE 78	
20	Rt. Sta. 913 + 75.00	IL 78 Mainline, Slope 2%
35	Lt. Sta. 913 + 75.00	IL 78 Mainline, Slope 1%
55	TOTAL	

**60218400 MANHOLES TYPE A 4'-DIAMETER TYPE 1 FRAME CLOSED LID**

EACH	LOCATION	COMMENTS
	IL ROUTE 78	
1	Rt. Sta. 917 + 75	24.81' o/s; Lid to have the word "STORM" written
1	TOTAL	

**60255800 MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME CLOSED LID**

EACH	LOCATION	COMMENTS
	IL ROUTE 78	
1	Sta. 913 + 70	Existing Sanitary Sewer; Lid to have the word "SANITARY" written
1	TOTAL	

**60608562 COMBINATION CONCRETE CURB AND GUTTER TYPE M-4.12**

FOOT	LOCATION
	MIT ENTRANCE
9.8	Rt. Sta. 99 + 02.24 - 99 + 12
17.8	Lt. Sta. 99 + 02.24 - 99 + 20
28	TOTAL

**60900515 CONCRETE THRUST BLOCKS**

EACH	LOCATION	COMMENTS
	IL ROUTE 78	
1	Rt. Sta. 909 + 19.95	SN 098-0118
1	Lt. Sta. 909 + 19.95	SN 098-0118
2	TOTAL	

**61000115 TYPE E INLET BOX STANDARD 610001**

EACH	LOCATION	COMMENTS
	IL ROUTE 78	
1	Rt. Sta. 909 + 19.95	SN 098-0118
1	Lt. Sta. 909 + 19.95	SN 098-0118
2	TOTAL	

**61100500 EXPLORATION TRENCH 52" DEPTH**

FOOT	LOCATION
20	Contingency
20	TOTAL

**61133200 FIELD TILE JUNCTION VAULTS 3' DIA.**

EACH	LOCATION
1	Contingency
1	TOTAL

**63000001 STEEL PLATE BEAM GUARDRAIL TYPE A 6 FOOT POSTS**

FOOT	LOCATION	COMMENTS
	IL ROUTE 78	
50	Rt. Sta. 908 + 68.1 - 909 + 18.1	SN 098-0118
12.5	Lt. Sta. 908 + 79.8 - 908 + 92.3	SN 098-0118
12.5	Rt. Sta. 911 + 26.6 - 911 + 39.1	SN 098-0118
50	Lt. Sta. 911 + 30.5 - 911 + 80.5	SN 098-0118
125	TOTAL	

# SCHEDULE OF QUANTITIES

63100085 TRAFFIC BARRIER TERMINAL TYPE 6

EACH	LOCATION	COMMENTS
	IL ROUTE 78	
1	Lt. Sta. 908 + 92.3 - 909 + 36.0	SN 098-0118
1	Rt. Sta. 909 + 18.1 - 909 + 61.8	SN 098-0118
1	Rt. Sta. 910 + 82.9 - 911 + 26.6	SN 098-0118
1	Lt. Sta. 910 + 86.8 - 911 + 30.5	SN 098-0118
4	TOTAL	

66600105 FURNISHING AND ERECTING RIGHT OF WAY MARKERS

70300220 TEMPORARY PAVEMENT MARKING - LINE 4"

EACH	LOCATION	COMMENTS	FOOT	LOCATION	COMMENTS
	IL ROUTE 78			IL ROUTE 78	
1	Lt. Sta. 905 + 00	60' o/s	140.2	Lt. Sta. 905 + 28 - 99 + 37.95	White Edge Line - Stage 1
1	Rt. Sta. 905 + 00	60' o/s	144.7	Rt. Sta. 905 + 28 - 100 + 60.91	White Edge Line - Stage 1
1	Lt. Sta. 906 + 00	70' o/s	24	Lt. Sta. 905 + 97.60 - 906 + 89.26	Turkey Tracks (6/2' White Dash) - Stage 1
1	Rt. Sta. 906 + 00	75' o/s	123.0	Lt. Sta. 906 + 60.04 - 907 + 45.50	White Edge Line - Stage 1
1	Lt. Sta. 906 + 25	100' o/s	108.5	Rt. Sta. 906 + 80.74 - 907 + 70.70	White Edge Line - Stage 1
1	Lt. Sta. 906 + 75	100' o/s	724.5	Rt. Sta. 907 + 45.50 - 914 + 70	White Edge Line - Stage 1
1	Lt. Sta. 907 + 00	95' o/s	711.3	Rt. Sta. 907 + 70.70 - 914 + 82	White Edge Line - Stage 1
1	Rt. Sta. 907 + 30.34	165' o/s	220.5	Lt. Sta. 914 + 70 - 916 + 90	White Edge Line - Stage 1
1	Rt. Sta. 907 + 30.48	80' o/s	140.3	Lt. Sta. 905 + 28 - 99 + 37.95	White Edge Line - Stage 2
1	Lt. Sta. 909 + 00	85' o/s	150.4	Rt. Sta. 905 + 28 - 100 + 60.91	White Edge Line - Stage 2
1	Rt. Sta. 909 + 00	70' o/s	40	Rt. Sta. 906 + 06 - 907 + 61.55	Turkey Tracks (6/2' White Dash) - Stage 2
1	Rt. Sta. 909 + 75	70' o/s	111.4	Lt. Sta. 907 + 06 - 99 + 02.24	White Edge Line - Stage 2
1	Rt. Sta. 910 + 00	60' o/s	75.2	Lt. Sta. 907 + 18 - 100 + 61.74	White Edge Line - Stage 2
1	Lt. Sta. 910 + 77.63	75' o/s	84.3	Lt. Sta. 907 + 06 - 907 + 90	White Edge Line - Stage 2
14	TOTAL		72.3	Lt. Sta. 907 + 18 - 907 + 90	White Edge Line - Stage 2
			632.0	Lt. Sta. 907 + 90 - 914 + 22	White Edge Line - Stage 2
			632.0	Lt. Sta. 907 + 90 - 914 + 22	White Edge Line - Stage 2
			84.3	Lt. Sta. 914 + 22 - 915 + 06	White Edge Line - Stage 2
			84.3	Lt. Sta. 914 + 22 - 915 + 06	White Edge Line - Stage 2
			184.0	Lt. Sta. 915 + 06 - 916 + 90	White Edge Line - Stage 2
			184.0	Rt. Sta. 915 + 06 - 916 + 90	White Edge Line - Stage 2
			4,671	TOTAL	

63100167 TRAFFIC BARRIER TERMINAL TYPE 1(SPECIAL) TANGENT

EACH	LOCATION	COMMENTS
	IL ROUTE 78	
1	Rt. Sta. 911 + 39.1 - 911 + 89.1	SN 098-0118
1	Lt. Sta. 911 + 80.5 - 912 + 30.5	SN 098-0118
2	TOTAL	

63100169 TRAFFIC BARRIER TERMINAL TYPE 1(SPECIAL) FLARED

EACH	LOCATION	COMMENTS
	IL ROUTE 78	
1	Rt. Sta. 908 + 18.1 - 908 + 68.1	SN 098-0118
1	Lt. Sta. 908 + 29.8 - 908 + 79.8	SN 098-0118
2	TOTAL	

66700305 PERMANENT SURVEY MARKERS TYPE II

EACH	LOCATION	COMMENTS
	IL ROUTE 78	
2	1 North/1 South of SN 098-0118	
2	TOTAL	

63200310 GUARDRAIL REMOVAL

FOOT	LOCATION	COMMENTS
	IL ROUTE 78	
154.0	Lt. Sta. 908 + 29.8 - 909 + 83.8	
103.4	Rt. Sta. 908 + 89.0 - 909 + 92.4	
264.9	Lt. Sta. 910 + 13.6 - 912 + 78.4	
152.4	Rt. Sta. 910 + 22.4 - 911 + 74.8	
675	TOTAL	

70106500 TEMPORARY BRIDGE TRAFFIC SIGNALS

EACH	LOCATION	COMMENTS
1	IL ROUTE 78/MIT ENTRANCE/FRENCH CREEK ROAD	See Staging Plans for Locations
1	TOTAL	

63500105 DELINEATORS

EACH	LOCATION	COMMENTS
	IL ROUTE 78	
1	Lt. Sta. 901 + 89.9	EX End Section
1	Rt. Sta. 902 + 14.0	Concrete End Section
1	Lt. Sta. 902 + 78.3	Concrete End Section
1	Rt. Sta. 902 + 92.0	Concrete End Section
1	Lt. Sta. 903 + 58.6	Concrete End Section
1	Lt. Sta. 906 + 17.9	End Sections EQRS 21"
1	Rt. Sta. 906 + 21.7	Concrete End Section
1	Lt. Sta. 906 + 70.3	Flush Inlet Box for Median
1	Rt. Sta. 907 + 06.1	Concrete End Section
1	Lt. Sta. 907 + 24.2	End Sections EQRS 21"
1	Rt. Sta. 908 + 18.1	TBT, TY 1(Special)
1	Lt. Sta. 908 + 29.8	TBT, TY 1(Special)
1	Rt. Sta. 909 + 20.0	Outlet for "TYPE E INLET BOX"
1	Lt. Sta. 909 + 20.0	Outlet for "TYPE E INLET BOX"
1	Rt. Sta. 911 + 89.1	TBT, TY 1(Special)
1	Lt. Sta. 912 + 30.5	TBT, TY 1(Special)
1	Rt. Sta. 913 + 75.0	PIPE UNDERDRAINS 4" (SPECIAL)
1	Lt. Sta. 913 + 75.0	PIPE UNDERDRAINS 4" (SPECIAL)
1	Rt. Sta. 916 + 33.6	Concrete End Section
1	Rt. Sta. 916 + 75.7	Flush Inlet Box for Median
1	Lt. Sta. 917 + 75.0	MH, TY A, 4' DIA
21	TOTAL	

70106700 TEMPORARY RUMBLE STRIPS

EACH	LOCATION	COMMENTS
	IL ROUTE 78	
1	Rt. Sta. 888 + 28	SN 098-0118
1	Rt. Sta. 893 + 28	SN 098-0118
1	Rt. Sta. 898 + 28	SN 098-0118
3	TOTAL	

70300280 TEMPORARY PAVEMENT MARKING - LINE 24"

FOOT	LOCATION	COMMENTS
	IL ROUTE 78	
11.2	Rt. Sta. 905 + 28	Stop Bar - IL 78
11.9	Lt. Sta. 916 + 90	Stop Bar - IL 78
23	SUB-TOTAL (IL ROUTE 78)	
	MIT ENTRANCE/FRENCH CREEK ROAD	
11.1	Rt. Sta. 99 + 35.95	Stop Bar - MIT Entrance
13.0	Lt. Sta. 100 + 63.74	Stop Bar - French Creek Road
24	SUB-TOTAL (MIT ENTRANCE/FRENCH CREEK ROAD)	
47	TOTAL	

70300100 SHORT TERM PAVEMENT MARKING

FOOT	LOCATION	COMMENTS
	IL ROUTE 78	
316.6	Sta. 901 + 97 - 917 + 80	Yellow Skip Dash - 2 total applications
176.0	Sta. 907 + 00 - 917 + 00	White 4' Shldr Diagonal strips - Spaced 100' oc - 2 total applications
493	TOTAL	

# SCHEDULE OF QUANTITIES

70301000 WORK ZONE PAVEMENT MARKING REMOVAL

SQ FT	LOCATION	COMMENTS
IL ROUTE 78		
52.8	Sta. 901 + 97 - 917 + 80	Yellow Skip Dash - Top app. of "Short Term Pvmt Marking"
22.4	Rt. Sta. 905 + 28	Stop Bar - IL 78
46.7	Lt. Sta. 905 + 28 - 99 + 38.0	White Edge Line - Stage 1
48.2	Rt. Sta. 905 + 28 - 100 + 60.9	White Edge Line - Stage 1
8	Lt. Sta. 905 + 97.6 - 906 + 89.3	Turkey Tracks (6/2' White Dash) - Stage 1
41.0	Lt. Sta. 906 + 60.0 - 907 + 45.5	White Edge Line - Stage 1
36.2	Rt. Sta. 906 + 80.7 - 907 + 70.7	White Edge Line - Stage 1
29.3	Sta. 907 + 00 - 917 + 00	White 4' Shldr Diagonal strips - Top app. of "Short Term Pvmt Marking"
241.5	Rt. Sta. 907 + 45.5 - 914 + 70	White Edge Line - Stage 1
237.1	Rt. Sta. 907 + 70.7 - 914 + 82	White Edge Line - Stage 1
73.5	Lt. Sta. 914 + 70 - 916 + 90	White Edge Line - Stage 1
46.8	Lt. Sta. 905 + 28 - 99 + 38.0	White Edge Line - Stage 2
50.1	Rt. Sta. 905 + 28 - 100 + 60.9	White Edge Line - Stage 2
13.3	Rt. Sta. 906 + 06 - 907 + 61.55	Turkey Tracks (6/2' White Dash) - Stage 2
37.1	Lt. Sta. 907 + 06 - 99 + 02.2	White Edge Line - Stage 2
25.1	Lt. Sta. 907 + 18 - 100 + 61.7	White Edge Line - Stage 2
28.1	Lt. Sta. 907 + 06 - 907 + 90	White Edge Line - Stage 2
24.1	Lt. Sta. 907 + 18 - 907 + 90	White Edge Line - Stage 2
210.7	Lt. Sta. 907 + 90 - 914 + 22	White Edge Line - Stage 2
210.7	Lt. Sta. 907 + 90 - 914 + 22	White Edge Line - Stage 2
28.1	Lt. Sta. 914 + 22 - 915 + 06	White Edge Line - Stage 2
28.1	Lt. Sta. 914 + 22 - 915 + 06	White Edge Line - Stage 2
61.3	Lt. Sta. 915 + 06 - 916 + 90	White Edge Line - Stage 2
61.3	Rt. Sta. 915 + 06 - 916 + 90	White Edge Line - Stage 2
23.8	Lt. Sta. 916 + 90	Stop Bar - IL 78
1,685	SUB-TOTAL (IL ROUTE 78)	
MIT ENTRANCE/FRENCH CREEK ROAD		
22.2	Rt. Sta. 99 + 35.95	Stop Bar - MIT Entrance
26.0	Lt. Sta. 100 + 63.74	Stop Bar - French Creek Road
48	SUB-TOTAL (MIT ENTRANCE/FRENCH CREEK ROAD)	
1,734	TOTAL	

70400100 TEMPORARY CONCRETE BARRIER

FOOT	LOCATION	COMMENTS
IL ROUTE 78		
737.50	Sta. 907 + 19.5 - 914 + 54.2	Stage 1 of SN 098-0118
737.5	TOTAL	

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

FOOT	LOCATION	COMMENTS
IL ROUTE 78		
737.5	Sta. 907 + 89.5 - 915 + 24.0	Stage 2 of SN 098-0118
737.5	TOTAL	

70600250 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

EACH	LOCATION	COMMENTS
IL ROUTE 78		
1	Lt. Sta. 906 + 88.0 - 907 + 18.5	Stage 1 of SN 098-0118
1	Lt. Sta. 914 + 55.2 - 914 + 85.7	Stage 1 of SN 098-0118
2	TOTAL	

70600350 IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3

EACH	LOCATION	COMMENTS
IL ROUTE 78		
1	Sta. 907 + 59 - 907 + 89	Stage 2 of SN 098-0118
1	Rt. Sta. 915 + 25 - 915 + 55.5	Stage 2 of SN 098-0118
2	TOTAL	

78001110 PAINT PAVEMENT MARKING - LINE 4"

FOOT	LOCATION	COMMENTS
IL ROUTE 78		
359	Rt. Sta. 909 + 12.5 - 910 + 92	2 Coats - White Edge Line (Bridge Deck only)
372	Lt. Sta. 909 + 12.5 - 910 + 98.5	2 Coats - White Edge Line (Bridge Deck only)
80	Sta. 909 + 25 - 910 + 95	2 Coats - CL NB & SB Yellow Skip-Dash (Bridge Deck only)
811	TOTAL	

78100100 78100100 RAISED REFLECTIVE PAVEMENT MARKER

EACH	LOCATION	COMMENTS
IL ROUTE 78		
21	Sta. 901 + 97.00 - 917 + 80	Two-Way Amber Marker
21	TOTAL	

78200410 78200410 GUARDRAIL MARKERS, TYPE A

EACH	LOCATION	COMMENTS
IL ROUTE 78		
3	Rt. Sta. 908 + 68.1 - 909 + 59.3	SN 098-0118
2	Lt. Sta. 908 + 79.8 - 909 + 33.5	SN 098-0118
2	Rt. Sta. 910 + 85.4 - 911 + 39.1	SN 098-0118
3	Lt. Sta. 910 + 89.3 - 911 + 80.5	SN 098-0118
10	TOTAL	

78001110 78200520 BARRIER WALL MARKERS, TYPE B

EACH	LOCATION	COMMENTS
IL ROUTE 78		
3	Lt. Sta. 909 + 36.00 - 910 + 86.80	PSN 098-0118 - 3 on Each Parapet Wall
3	Rt. Sta. 909 + 61.80 - 910 + 82.9	PSN 098-0118 - 3 on Each Parapet Wall
6	TOTAL	

78001110 78201000 TERMINAL MARKER - DIRECT APPLIED

EACH	LOCATION	COMMENTS
IL ROUTE 78		
1	Rt. Sta. 908 + 18.07	SN 098-0118
1	Lt. Sta. 908 + 29.75	SN 098-0118
1	Rt. Sta. 911 + 89.14	SN 098-0118
1	Lt. Sta. 912 + 30.50	SN 098-0118
4	TOTAL	

# SCHEDULE OF QUANTITIES

78300100 PAVEMENT MARKING REMOVAL

SQ.FT	LOCATION	COMMENTS
IL ROUTE 78		
130	Lt. Sta. 901 + 97 - 905 + 87	Existing 4" White edge Line
358	Lt. Sta. 907 + 07 - 917 + 80	Existing 4" White edge Line
142	Rt. Sta. 901 + 97 - 906 + 23	Existing 4" White edge Line
341	Rt. Sta. 907 + 57 - 917 + 80	Existing 4" White edge Line
142	Sta. 901 + 97 - 906 + 23	Existing Solid 4" Yellow Southbound No-Passing-Zone
131.9	Sta. 901 + 97 - 917 + 80	Existing Yellow Skip Dash
<u>1,245</u>	TOTAL	

78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

EACH	LOCATION
IL ROUTE 78	
9	Sta. 901 + 97 - 917 + 80
<u>9</u>	TOTAL

X5091725 BICYCLE RAILING, SPECIAL

FOOT	LOCATION	COMMENTS
IL ROUTE 78		
53.75	Lt. Sta. 908 + 79.75 - 909 + 33.50	See "BICYCLE RAILING, SPECIAL" Detail in Plans
91.25	Lt. Sta. 910 + 89.25 - 911 + 80.50	See "BICYCLE RAILING, SPECIAL" Detail in Plans
116	80% FEDERAL/20% STATE SUB-TOTAL	
29	20%/100% CITY OF MORRISON SUB-TOTAL	
<u>145</u>	GRAND TOTAL	

X6060097 CLASS SICONGRETE (OUTLET), SPECIAL

CUYD	LOCATION
MIT ENTRANCE	
1.1	Rt. Sta. 99 + 12 - 99 + 34
1.4	Lt. Sta. 99 + 20 - 99 + 50.93
<u>2.5</u>	TOTAL

X6060505 CONCRETE CURB (SPECIAL)

FOOT	LOCATION	COMMENTS
IL ROUTE 78		
14.45	Lt. Sta. 909 + 19.15 - 909 + 33.60	SN 098-0118
25.21	Rt. Sta. 909 + 19.15 - 909 + 44.36	SN 098-0118
<u>40</u>	TOTAL	

X7801004 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING - LINE 4"

FOOT	LOCATION	COMMENTS
IL ROUTE 78		
519.3	Sta. 901 + 97.00 - 906 + 12.47	CL NPZ SB Solid Yellow/NB Yellow Skip-Dash
392.7	Lt. Sta. 901 + 97.00 - 905 + 89.71	White edge Line
396.2	Rt. Sta. 901 + 97.00 - 905 + 93.20	White edge Line
80.0	Sta. 906 + 12.47 - 909 + 25	CL NB & SB Yellow Skip-Dash
170.0	Sta. 910 + 95 - 917 + 80	CL NB & SB Yellow Skip-Dash
113.8	Lt. Sta. 905 + 89.71 - 99 + 02.24	White edge Line
170.7	Rt. Sta. 905 + 93.20 - 101 + 55.56	White edge Line
106.7	Lt. Sta. 907 + 03.02 - 99 + 02.24	White edge Line
209.5	Lt. Sta. 907 + 03.02 - 909 + 12.5	White edge Line
688.0	Lt. Sta. 910 + 92.00 917 + 80	White edge Line
236.0	Rt. Sta. 908 + 04.69 - 101 + 55.56	White edge Line
107.8	Rt. Sta. 908 + 04.69 - 909 + 12.5	White edge Line
681.5	Rt. Sta. 910 + 98.50 - 917 + 80	White edge Line
<u>3,872</u>	TOTAL	

Z0004552 APPROACH SLAB REMOVAL

SQ.YD	LOCATION
IL ROUTE 78	
68.7	Sta. 909 + 37.5 - 909 + 57.5
74.1	Sta. 910 + 48.50 - 910 + 68.50
<u>143</u>	TOTAL

X7801012 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING - LINE 12"

FOOT	LOCATION	COMMENTS
IL ROUTE 78		
130.0	Sta. 916 + 58.50 - 916 + 68.50	White Mid-block Crosswalk
<u>130</u>	TOTAL	

Z0025505 PROPERTY MARKERS

EACH	LOCATION
Contingency	
2	
<u>2</u>	TOTAL

X7801024 WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING - LINE 24"

FOOT	LOCATION	COMMENTS
MIT ENTRANCE/FRENCH CREEK ROAD		
15.8	Rt. Sta. 99 + 58.34	Stop Bar - MIT Entrance
25.3	Lt. Sta. 100 + 41.64	Stop Bar - French Creek Road
<u>41</u>	TOTAL	

X7830070 GROOVING FOR RECESSED PAVEMENT MARKING 5"

FOOT	LOCATION	COMMENTS
IL ROUTE 78		
519.3	Sta. 901 + 97.00 - 906 + 12.47	CL NPZ SB Solid Yellow/NB Yellow Skip-Dash
392.7	Lt. Sta. 901 + 97.00 - 905 + 89.71	White edge Line
396.2	Rt. Sta. 901 + 97.00 - 905 + 93.20	White edge Line
80.0	Sta. 906 + 12.47 - 909 + 25	CL NB & SB Yellow Skip-Dash
170.0	Sta. 910 + 95 - 917 + 80	CL NB & SB Yellow Skip-Dash
113.8	Lt. Sta. 905 + 89.71 - 99 + 02.24	White edge Line
170.7	Rt. Sta. 905 + 93.20 - 101 + 55.56	White edge Line
106.7	Lt. Sta. 907 + 03.02 - 99 + 02.24	White edge Line
209.5	Lt. Sta. 907 + 03.02 - 909 + 12.5	White edge Line
688.0	Lt. Sta. 910 + 92.00 917 + 80	White edge Line
236.0	Rt. Sta. 908 + 04.69 - 101 + 55.56	White edge Line
107.8	Rt. Sta. 908 + 04.69 - 909 + 12.5	White edge Line
681.5	Rt. Sta. 910 + 98.50 - 917 + 80	White edge Line
<u>3,872</u>	TOTAL	

X7830078 GROOVING FOR RECESSED PAVEMENT MARKING 13"

FOOT	LOCATION	COMMENTS
IL ROUTE 78		
130.0	Sta. 916 + 58.50 - 916 + 68.50	Mid-block Crosswalk
<u>130</u>	TOTAL	

X7830090 GROOVING FOR RECESSED PAVEMENT MARKING 25"

FOOT	LOCATION	COMMENTS
MIT ENTRANCE/FRENCH CREEK ROAD		
15.8	Rt. Sta. 99 + 58.34	Stop Bar - MIT Entrance
25.3	Lt. Sta. 100 + 41.64	Stop Bar - French Creek Road
<u>41</u>	TOTAL	



# EARTHWORK SCHEDULE

20200100

LOCATION	EARTH EXCAVATION	EARTH EXC ADJ SHRINK 25%	EMBANKMENT (FILL)	EARTH WORK BALANCE WASTE (+) SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD
<b>MAINLINE (IL RTE 78)</b>				
901+75 - 902+50	47.8	35.9	14.7	21.1
902+50 - 908+50	1,431.4	1,073.5	394.2	679.4
908+50 - 914+50	755.5	566.6	879.4	-312.8
914+50 - 917+80	481.1	360.8	365.9	-5.1
<b>ENTRANCES/SIDEROADS</b>				
MIT Entrance				
98+20.79 - 99+75	275.0	206.3	0.2	206.1
French Creek Road				
100+75 - 101+75	198.8	149.1	37.0	112.1
<b>TOTAL</b>	3,189.5	2,392.1	1,691.4	700.7
<b>TOTAL (ROUNDED TO 5 CY)</b>	3,190			

# SIGNING SCHEDULE FOR MULTI-USE PATH

SIGN PANEL QUANTITY (EACH)	WOOD SIGN SUPPORT QUANTITY (EACH)	TYPE OF SIGN PANEL	SIZE OF SIGN PANEL	SURFACE AREA FOR ONE PANEL (SQ FT)	72000100	73000100
					SIGN PANEL - TYPE 1 (SQ FT)	WOOD SIGN SUPPORT (2) (FOOT)
3	3	R1-1	18" X 18"	2.25	6.75	48
3		R15-8	18" X 9"	1.13	3.38	
4	4	R5-3	24" X 24"	4.00	16.00	64
1	1	W1-6	24" X 12"	2.00	2.00	16
1	1	W1-7	24" X 12"	2.00	2.00	16
2	2	W3-1	18" X 18"	2.25	4.50	32
4	4	W11-15	36" X 36"	9.00	36.00	64
2		W16-9P	30" X 9"	1.88	3.75	
2		W16-7P	21" X 15"	2.19	4.38	
2	2	D11-1	24" X 18"	3.00	6.00	32
2		M6-4	21" X 15"	2.19	4.38	
100% STATE SUB-TOTAL					72	218
20% CITY OF MORRISON SUB-TOTAL					18	54
<b>GRAND TOTAL</b>					<b>90</b>	<b>272</b>

**NOTES:**

- 1). SEE "MULTI-USE PATH SIGNING DETAIL" FOR EXACT LOCATIONS.
- 2). EACH SIGN SUPPORT SHALL BE 16 FEET IN LENGTH.

# HOT-MIX ASPHALT SCHEDULE

30300112      35101800      35102000

LOCATION	REMARKS	LENGTH	PROPOSED SURFACE		AGGREGATE BASE PROPOSED SURFACE		AGGREGATE SUBGRADE IMPROVEMENT 12"	AGGREGATE BASE COURSE, TYPE B 6"	AGGREGATE BASE COURSE, TYPE B 8"	VOLUME OF VAR. DEPTH LEVEL BINDER
			AVE. WIDTH	AREA	AVE. WIDTH	AREA				
			FT	SQ YD	FT	SQ YD				
<b>IL RTE 78 MAINLINE</b>										
Lt & Rt Sta 901+97.00 - 902+42.00	(Mill 2 1/4") + Var. L.B. (MM) N50 + 1 1/2" HMA S.C. Mix "C" N50	45.00	24.11	120.5	--	--	--	--	--	6.07
Lt & Rt Sta 902+42.00 - 905+89.71	(Mill 2 1/4") + 3/4" L.B. (MM) N50 + 1 1/2" HMA S.C. Mix "C" N50	347.71	24.46	945.2	--	--	--	--	--	--
Lt & Rt Sta 905+89.71 - 909+25.00	(Mill 2 1/4") + 3/4" L.B. (MM) N50 + 1 1/2" HMA S.C. Mix "C" N50	335.29	24.47	911.7	--	--	--	--	--	--
Lt & Rt Sta 909+25.00 - 909+32.96	Var. L.B. (MM) N50 + 1 1/2" HMA S.C. Mix "C" N50	7.96	24.00	21.2	--	--	--	--	--	2.45
Lt & Rt Sta 909+32.96 - 911+01.04	PSN 098-0118	168.08	--	--	--	--	--	--	--	--
Lt & Rt Sta 911+01.04 - 913+93.00	Var. L.B. (MM) N50 + 1 1/2" HMA S.C. Mix "C" N50	291.96	25.61	830.8	--	--	--	--	--	148.90
Lt & Rt Sta 913+93.00 - 914+20.00	(Mill 2 1/4") + Var. L.B. (MM) N50 + 1 1/2" HMA S.C. Mix "C" N50	27.00	25.52	76.5	--	--	--	--	--	4.52
Lt & Rt Sta 914+20.00 - 917+80.00	(Mill 2 1/4") + 3/4" L.B. (MM) N50 + 1 1/2" HMA S.C. Mix "C" N50	360.00	25.35	1014.0	--	--	--	--	--	--
<b>SHOULDERS</b>										
Lt Sta 901+97.00 - 905+89.71	Hot-Mix Asphalt - Mainline	392.71	3.06	133.4	--	--	--	--	--	--
Rt Sta 901+97.00 - 905+89.71	Hot-Mix Asphalt - Mainline	392.71	3.05	133.2	--	--	--	--	--	--
Lt Sta 905+89.71 - 99+25.78	Hot-Mix Asphalt - SW Quad of MIT Entrance	89.33	3.73	37.0	5.23	51.9	51.9	--	--	--
Rt Sta 905+89.71 - 101+55.56	Hot-Mix Asphalt - SE Quad at at French Creek Road	167.84	4.09	76.3	5.59	104.3	104.3	--	--	--
Lt Sta 908+17.28 - 909+26.00	Hot-Mix Asphalt - Mainline; Includes Bikepath	108.72	9.30	112.3	10.80	130.4	130.4	--	--	--
Lt Sta 909+12.49 - 909+28.61	PCC - Mainline	16.12	8.18	14.7	8.18	14.7	14.7	--	--	--
Rt Sta 909+12.49 - 909+37.30	PCC - Mainline	24.81	8.22	22.7	9.72	26.8	26.8	--	--	--
Rt Sta 909+12.49 - 909+59.29	Hot-Mix Asphalt - Behind PCC Shldr & Bridge Approach Pvmt	46.80	3.43	17.8	4.43	23.0	--	--	23.0	--
Lt Sta 909+12.49 - 99+34.93	Hot-Mix Asphalt - NW Quad of MIT Entrance	284.79	9.47	299.7	10.97	347.2	347.2	--	--	--
Rt Sta 909+12.49 - 101+55.56	Hot-Mix Asphalt - NE Quad of French Creek Road	343.77	7.73	295.3	9.23	352.6	352.6	--	--	--
Rt Sta 910+84.53 - 911+06.60	Hot-Mix Asphalt - Behind Bridge Approach Pvmt	22.07	2.98	7.3	3.98	9.8	--	--	9.8	--
Lt Sta 910+93.58 - 912+06.19	Hot-Mix Asphalt - Mainline; Includes Bikepath	112.61	8.15	101.9	9.65	120.7	120.7	--	--	--
Lt Sta 910+96.21 - 917+34.58	Hot-Mix Asphalt - Mainline	638.37	9.09	644.5	10.59	750.9	750.9	--	--	--
Rt Sta 911+06.60 - 917+80.00	Hot-Mix Asphalt - Mainline	673.40	8.63	645.6	10.13	757.9	757.9	--	--	--
Rt Sta 911+75.00 - 914+00.00	Hot-Mix Asphalt - Mainline (Shldr Profiling Wedge (Var))	225.00	9.80	245.0	--	--	--	--	--	33.7
Lt Sta 913+00.00 - 913+75.00	Hot-Mix Asphalt - Mainline (Shldr Profiling Wedge (Var))	75.00	7.74	64.5	--	--	--	--	--	2.0
<b>BIKEPATH/ENTRANCES/SIDEROADS</b>										
Lt Sta 98+20.79 - 908+17.28	Bikepath	271.53	9.84	296.8	11.84	357.2	--	357.19	--	--
Lt & Rt Sta 99+02.24 - 99+87.48	MIT Entrance	85.24	34.00	322.0	34.00	322.0	322.0	--	--	--
Lt Sta 99+02.24 - 99+34.93	Aggregate Underneath "Outlet For CC&G, Type M-4.12"	32.69	--	--	3.25	11.8	11.8	--	--	--
Rt Sta 99+02.24 - 99+25.78	Aggregate Underneath "Outlet For CC&G, Type M-4.12"	23.54	--	--	3.42	8.9	8.9	--	--	--
Lt & Rt Sta 100+12.39 - 101+55.56	French Creek Road	143.17	44.61	709.7	44.61	709.7	709.7	--	--	--
Rt Sta 902+53.00	Field Entrance	--	--	--	--	126.4	--	--	126.4	--
Lt Sta 903+20.00	Commercial Entrance	--	--	125.8	--	134.9	--	--	134.9	--
Lt Sta 912+06.19 - 913+42.50	Bikepath	136.31	10.00	151.4	12.00	181.7	--	181.7	--	--
Lt Sta 913+42.50 - 916+63.34	Bikepath	320.84	10.00	355.9	12.00	427.1	--	427.1	--	--
Lt Sta 916+63.34	PCC Bikepath	10.00	10 & Var	11.5	12 & Var	13.8	--	13.8	--	--
Rt Sta 916+63.34	PCC Bikepath	10.00	10 & Var	12.5	12 & Var	15.0	--	15.0	--	--
Rt Sta 914+60.00 - 916+92.00	Bikepath	232.00	10 & Var	330.6	12 & Var	391.2	--	391.2	--	--
Rt Sta 917+03.72	Commercial Entrance	--	--	229.2	--	246.6	--	--	246.6	--
Rt Sta 917+15.39 - 917+20.44	PCC Sidewalk	5.00	5 & Var	2.9	7 & Var	3.9	--	3.9	--	--
<b>100% STATE SUB-TOTAL</b>							3,660	1,112	541	--
<b>20% CITY OF MORRISON SUB-TOTAL</b>							50	278	--	--
<b>GRAND TOTAL</b>							3,710	1,390	541	--



# HOT-MIX ASPHALT SCHEDULE

48203023

48300300

X4060110

Z0028415

LOCATION	HOT-MIX ASPHALT SHOULDERS, 6 1/2"	PORTLAND CEMENT CONCRETE SHOULDERS 8"	BITUMINOUS MATERIALS (PRIME COAT)	GEOTECHNICAL REINFORCEMENT
STATION TO STATION	SQ YD	SQ YD	POUND	SQ YD
<b>IL RTE 78 MAINLINE</b>				
Lt & Rt Sta 901+97.00 - 902+42.00	---	---	81.4	---
Lt & Rt Sta 902+42.00 - 905+89.71	---	---	638.0	---
Lt & Rt Sta 905+89.71 - 909+25.00	---	---	615.4	---
Lt & Rt Sta 909+25.00 - 909+32.96	---	---	14.3	---
Lt & Rt Sta 909+32.96 - 911+01.04	---	---	---	---
Lt & Rt Sta 911+01.04 - 913+93.00	---	---	560.8	---
Lt & Rt Sta 913+93.00 - 914+20.00	---	---	51.7	---
Lt & Rt Sta 914+20.00 - 917+80.00	---	---	684.4	---
<b>SHOULDERS</b>				
Lt Sta 901+97.00 - 905+89.71	133.4	---	---	---
Rt Sta 901+97.00 - 905+89.71	133.2	---	---	---
Lt Sta 905+89.71 - 99+25.78	37.0	---	25.0	51.9
Rt Sta 905+89.71 - 101+55.56	76.3	---	51.5	104.3
Lt Sta 908+17.28 - 909+26.00	112.3	---	75.8	---
Lt Sta 909+12.49 - 909+28.61	---	14.7	---	---
Rt Sta 909+12.49 - 909+37.30	---	22.7	---	---
Rt Sta 909+12.49 - 909+59.29	---	---	---	---
Lt Sta 909+12.49 - 99+34.93	299.7	---	202.3	347.2
Rt Sta 909+12.49 - 101+55.56	295.3	---	199.3	352.6
Rt Sta 910+84.53 - 911+06.60	---	---	---	---
Lt Sta 910+93.58 - 912+06.19	101.9	---	68.8	---
Lt Sta 910+96.21 - 917+34.58	644.5	---	435.0	---
Rt Sta 911+06.60 - 917+80.00	645.6	---	435.8	---
Rt Sta 911+75.00 - 914+00.00	---	---	---	---
Lt Sta 913+00.00 - 913+75.00	---	---	---	---
<b>BIKEPATH/ENTRANCES/SIDEROADS</b>				
Lt Sta 98+20.79 - 908+17.28	---	---	133.58	---
Lt & Rt Sta 99+02.24 - 99+87.48	---	---	144.90	322.0
Lt Sta 99+02.24 - 99+34.93	---	---	---	11.8
Rt Sta 99+02.24 - 99+25.78	---	---	---	8.9
Lt & Rt Sta 100+12.39 - 101+55.56	---	---	319.37	709.7
Rt Sta 902+53.00	---	---	---	---
Lt Sta 903+20.00	---	---	56.61	---
Lt Sta 912+06.19 - 913+42.50	---	---	68.14	---
Lt Sta 913+42.50 - 916+63.34	---	---	160.18	---
Lt Sta 916+63.34	---	---	---	---
Rt Sta 916+63.34	---	---	---	---
Rt Sta 914+60.00 - 916+92.00	---	---	148.77	---
Rt Sta 917+03.72	---	---	103.16	---
Rt Sta 917+15.39 - 917+20.44	---	---	---	---
100% STATE SUB-TOTAL	2,436	37	5,143	1,908
20% CITY OF MORRISON SUB-TOTAL	43	---	131	---
<b>GRAND TOTAL</b>	<b>2,479</b>	<b>37</b>	<b>5,274</b>	<b>1,908</b>

# SEEDING, CLASS 1 SCHEDULE

LOCATION	DISTANCE	SURFACE AREA - LT	SURFACE AREA - RT	25000100	25000400	25000500	25000600	25000750	25100630	28000250
				SEEDING, CLASS 1	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MOWING	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING
	FEET	SQ. FT.	SQ. FT.	ACRE	POUND	POUND	POUND	ACRE	SQ YD	POUND
<b>MAINLINE (IL RTE 78)</b>										
901+63.55 - 902+00.00	36.45	312	0	0.007	0.65	0.65	0.65	0.007	34.69	4.30
902+00.00 - 902+25.00	25	486	0	0.011	1.00	1.00	1.00	0.011	54.00	6.69
902+25.00 - 902+50.00	25	497	0	0.011	1.03	1.03	1.03	0.011	55.22	6.85
902+50.00 - 902+75.00	25	586	0	0.013	1.21	1.21	1.21	0.013	65.11	8.07
902+75.00 - 903+14.19	39.19	402	0	0.009	0.83	0.83	0.83	0.009	44.67	5.54
903+28.89 - 903+50.00	21.11	198	0	0.005	0.41	0.41	0.41	0.005	21.95	2.72
903+50.00 - 903+75.00	25	660	0	0.015	1.36	1.36	1.36	0.015	73.33	9.09
903+75.00 - 904+00.00	25	541	0	0.012	1.12	1.12	1.12	0.012	60.11	7.45
904+00.00 - 904+25.00	25	543	0	0.012	1.12	1.12	1.12	0.012	60.33	7.48
904+25.00 - 904+50.00	25	556	0	0.013	1.15	1.15	1.15	0.013	61.78	7.66
904+50.00 - 904+75.00	25	573	0	0.013	1.18	1.18	1.18	0.013	63.67	7.89
904+75.00 - 905+00.00	25	588	0	0.013	1.21	1.21	1.21	0.013	65.33	8.10
905+00.00 - 905+25.00	25	706	0	0.016	1.46	1.46	1.46	0.016	78.44	9.72
905+25.00 - 905+50.00	25	854	0	0.020	1.76	1.76	1.76	0.020	94.89	11.76
905+50.00 - 905+75.00	25	941	0	0.022	1.94	1.94	1.94	0.022	104.56	12.96
905+75.00 - 906+00.00	25	1039	0	0.024	2.15	2.15	2.15	0.024	115.44	14.31
906+00.00 - 906+32.50	32.50	765	0	0.018	1.58	1.58	1.58	0.018	85.00	10.54
906+32.50 - 906+67.00	34.50	833	0	0.020	1.76	1.76	1.76	0.020	94.89	11.76
906+67.00 - 907+00.00	33.00	987	0	0.023	2.04	2.04	2.04	0.023	109.67	13.60
907+00.00 - 907+25.00	25.00	1351	0	0.031	2.79	2.79	2.79	0.031	147.44	18.61
907+25.00 - 907+50.00	25.00	1286	0	0.030	2.66	2.66	2.66	0.030	142.22	17.71
907+50.00 - 907+75.00	25.00	1237	0	0.028	2.56	2.56	2.56	0.028	137.44	17.04
907+75.00 - 908+00.00	25.00	1193	0	0.027	2.46	2.46	2.46	0.027	132.56	16.43
908+00.00 - 908+25.00	25.00	1057	0	0.024	2.18	2.18	2.18	0.024	117.44	14.56
908+25.00 - 908+50.00	25.00	946	0	0.022	1.95	1.95	1.95	0.022	105.11	13.03
908+50.00 - 908+75.00	25.00	1029	0	0.024	2.13	2.13	2.13	0.024	114.33	14.17
908+75.00 - 909+00.00	25.00	1102	0	0.025	2.28	2.28	2.28	0.025	122.44	15.18
909+00.00 - 909+20.00	20.00	886	0	0.020	1.83	1.83	1.83	0.020	98.44	12.20
909+20.00 - 909+25.00	5.00	223	0	0.005	0.46	0.46	0.46	0.005	24.78	3.07
909+25.00 - 909+50.00	25.00	1012	0	0.023	2.09	2.09	2.09	0.023	112.44	13.94
909+50.00 - 910+00.00	50.00	643	0	0.015	1.33	1.33	1.33	0.015	61.46	8.86
910+00.00 - 910+25.00	25.00	801	0	0.018	1.65	1.65	1.65	0.018	86.91	11.03
910+25.00 - 910+50.00	25.00	532	386	0.021	1.90	1.90	1.90	0.021	78.02	12.65
910+50.00 - 910+75.00	25.00	631	440	0.025	2.21	2.21	2.21	0.025	97.66	14.75
910+75.00 - 911+00.00	25.00	688	623	0.030	2.71	2.71	2.71	0.030	145.67	18.06
911+00.00 - 911+25.00	25.00	695	747	0.033	2.98	2.98	2.98	0.033	160.22	19.86
911+25.00 - 911+50.00	25.00	654	715	0.031	2.83	2.83	2.83	0.031	152.11	18.86
911+50.00 - 911+75.00	25.00	614	690	0.030	2.69	2.69	2.69	0.030	144.89	17.96
911+75.00 - 912+00.00	25.00	578	687	0.029	2.61	2.61	2.61	0.029	140.56	17.42
912+00.00 - 912+25.00	25.00	567	740	0.030	2.70	2.70	2.70	0.030	145.22	18.00
912+25.00 - 912+50.00	25.00	561	772	0.031	2.75	2.75	2.75	0.031	148.11	18.36
912+50.00 - 912+75.00	25.00	576	723	0.030	2.68	2.68	2.68	0.030	144.33	17.89
912+75.00 - 913+00.00	25.00	596	468	0.024	2.20	2.20	2.20	0.024	118.22	14.66
913+00.00 - 913+25.00	25.00	601	241	0.019	1.74	1.74	1.74	0.019	93.56	11.60
913+25.00 - 913+50.00	25.00	595	223	0.019	1.69	1.69	1.69	0.019	90.89	11.27
913+50.00 - 913+75.00	25.00	567	212	0.018	1.61	1.61	1.61	0.018	86.56	10.73
913+75.00 - 914+00.00	25.00	545	177	0.017	1.49	1.49	1.49	0.017	80.22	9.94
914+00.00 - 914+25.00	25.00	524	127	0.015	1.35	1.35	1.35	0.015	72.33	8.97
914+25.00 - 914+50.00	25.00	506	137	0.015	1.33	1.33	1.33	0.015	71.44	8.86
914+50.00 - 914+75.00	25.00	512	354	0.020	1.79	1.79	1.79	0.020	96.22	11.93
914+75.00 - 915+00.00	25.00	547	447	0.023	2.05	2.05	2.05	0.023	110.44	13.69
915+00.00 - 915+25.00	25.00	587	380	0.022	2.00	2.00	2.00	0.022	107.44	13.32
915+25.00 - 915+50.00	25.00	638	439	0.025	2.23	2.23	2.23	0.025	119.67	14.83
915+50.00 - 915+75.00	25.00	642	583	0.028	2.53	2.53	2.53	0.028	136.11	16.87
915+75.00 - 916+00.00	25.00	584	839	0.033	2.94	2.94	2.94	0.033	158.11	19.60
916+00.00 - 916+25.00	25.00	533	1015	0.036	3.20	3.20	3.20	0.036	172.00	21.32
916+25.00 - 916+50.00	25.00	501	1301	0.041	3.72	3.72	3.72	0.041	200.22	24.82
916+50.00 - 916+63.00	13.00	202	419	0.014	1.28	1.28	1.28	0.014	69.00	8.55
916+63.00 - 916+75.00	12.00	193	380	0.013	1.18	1.18	1.18	0.013	63.67	7.89
916+75.00 - 917+00.00	25.00	456	760	0.028	2.51	2.51	2.51	0.028	135.11	16.75
917+00.00 - 917+25.00	25.00	198	90	0.007	0.60	0.60	0.60	0.007	32.00	3.97
917+25.00 - 917+50.00	25.00	0	359	0.008	0.74	0.74	0.74	0.008	39.89	4.94
917+50.00 - 917+75.00	25.00	0	464	0.011	0.96	0.96	0.96	0.011	51.56	6.39
917+75.00 - 917+80.00	5.00	0	39	0.001	0.08	0.08	0.08	0.001	4.32	0.54
<b>SIDEROADS</b>										
<b>MIT Entrance</b>										
98+20.79 - 98+25.00	4.21	54	0	0.001	0.11	0.11	0.11	0.001	6.00	0.74
98+25.00 - 98+50.00	25.00	406	0	0.009	0.84	0.84	0.84	0.009	45.11	5.59
98+50.00 - 98+75.00	25.00	390	0	0.009	0.81	0.81	0.81	0.009	43.33	5.37
98+75.00 - 99+00.00	25.00	450	0	0.010	0.93	0.93	0.93	0.010	50.00	6.20
99+00.00 - 99+25.00	25.00	673	50	0.017	1.49	1.49	1.49	0.017	80.33	9.96
99+25.00 - 99+50.00	25.00	423	51	0.011	0.98	0.98	0.98	0.011	52.67	6.53
<b>SUBTOTAL</b>				---	120	120	120	1.34	6,315	803
<b>CLASS 1</b>				1.34						

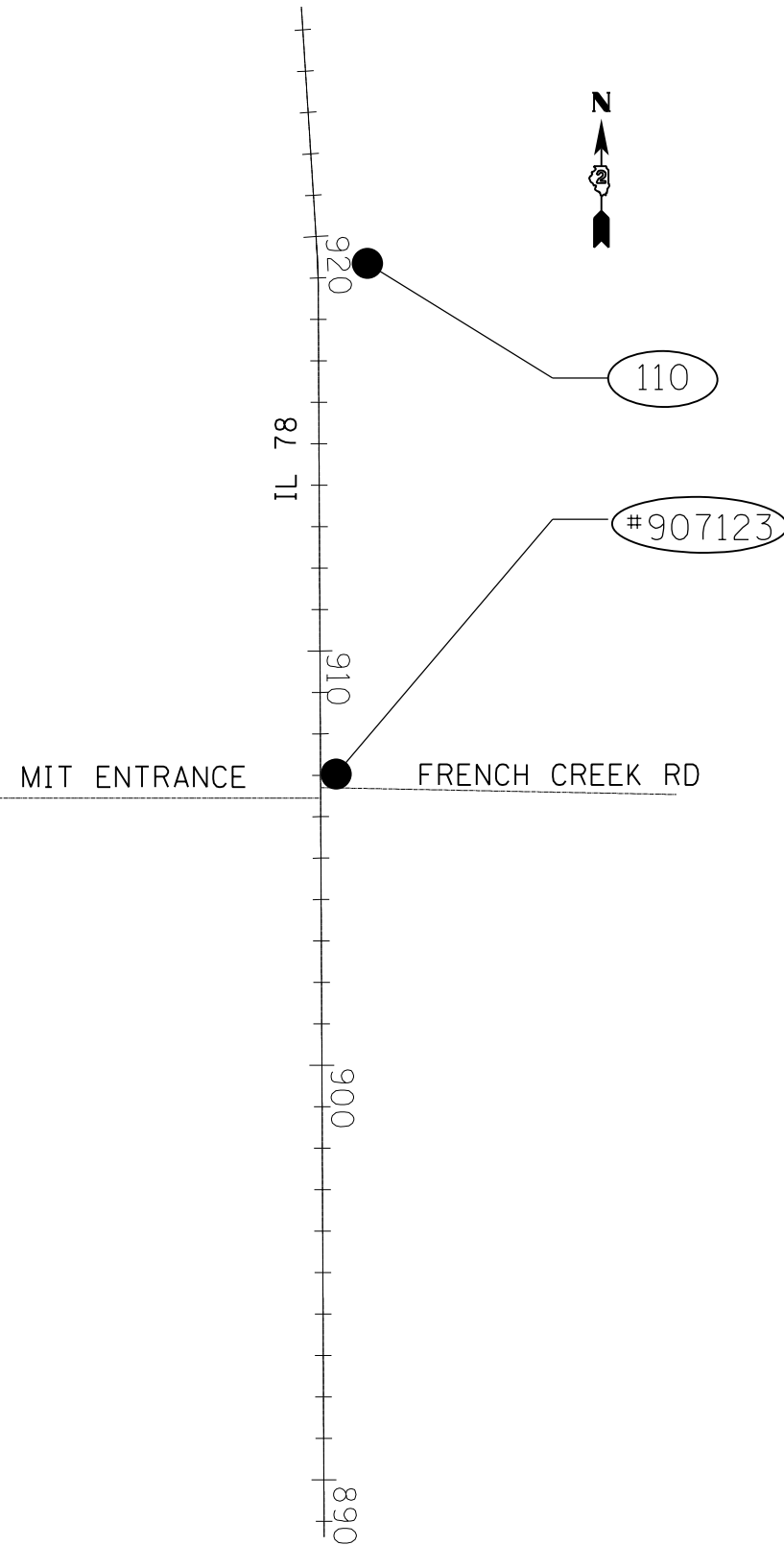
# SEEDING, CLASS 2a SCHEDULE

LOCATION	DISTANCE	SURFACE AREA - LT	SURFACE AREA - RT	25000210	25000400	25000500	25000600	25000750	25100630	28000250
				SEEDING, CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MOWING	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING
	FEET	SQ. FT.	SQ. FT.	ACRE	POUND	POUND	POUND	ACRE	SQ YD	POUND
<b>MAINLINE (IL RTE 78)</b>										
901+75.00 - 902+00.00	25	0	268	0.006	0.55	0.55	0.55	0.006	29.75	3.69
902+00.00 - 902+25.00	25	0	642	0.015	1.33	1.33	1.33	0.015	71.33	8.84
902+25.00 - 902+45.50	20.5	0	367	0.008	0.76	0.76	0.76	0.008	40.78	5.06
902+45.50 - 902+75.00	15.0	0	196	0.004	0.40	0.40	0.40	0.004	21.78	2.70
902+75.00 - 903+00.00	25.0	0	397	0.009	0.82	0.82	0.82	0.009	44.11	5.47
903+00.00 - 903+25.00	25.0	0	526	0.012	1.09	1.09	1.09	0.012	58.44	7.25
903+25.00 - 903+50.00	25.0	0	526	0.012	1.09	1.09	1.09	0.012	58.44	7.25
903+50.00 - 903+75.00	25.0	0	538	0.012	1.11	1.11	1.11	0.012	59.78	7.41
903+75.00 - 904+00.00	25.0	0	556	0.013	1.15	1.15	1.15	0.013	61.78	7.66
904+00.00 - 904+25.00	25.0	0	579	0.013	1.20	1.20	1.20	0.013	64.33	7.98
904+25.00 - 904+50.00	25.0	0	599	0.014	1.24	1.24	1.24	0.014	66.56	8.25
904+50.00 - 904+75.00	25.0	0	599	0.014	1.24	1.24	1.24	0.014	66.56	8.25
904+75.00 - 905+00.00	25.0	0	622	0.014	1.29	1.29	1.29	0.014	69.11	8.57
905+00.00 - 905+25.00	25.0	0	661	0.015	1.37	1.37	1.37	0.015	73.44	9.10
905+25.00 - 905+50.00	25.0	0	755	0.017	1.56	1.56	1.56	0.017	83.89	10.40
905+50.00 - 905+75.00	25.0	0	888	0.020	1.83	1.83	1.83	0.020	98.67	12.23
905+75.00 - 906+00.00	25.0	0	1018.5	0.023	2.10	2.10	2.10	0.023	113.17	14.03
906+00.00 - 906+25.00	25.0	0	857.4	0.020	1.77	1.77	1.77	0.020	95.27	11.81
906+25.00 - 906+39.00	14.0	0	180.9	0.004	0.37	0.37	0.37	0.004	20.10	2.49
906+39.00 - 907+00.00	13.0	0	102.6	0.002	0.21	0.21	0.21	0.002	11.40	1.41
907+00.00 - 907+25.00	25.0	0	528	0.012	1.09	1.09	1.09	0.012	58.67	7.27
907+25.00 - 907+50.00	25.0	0	1153	0.026	2.38	2.38	2.38	0.026	128.11	15.88
907+50.00 - 907+75.00	25.0	0	1155	0.027	2.39	2.39	2.39	0.027	1	

# EXISTING HORIZONTAL & VERTICAL CONTROL

## IL 78 SOUTH

## IL 78 SOUTH (CON'T)



Chain IL78SOUTH contains:  
A099283 CUR A1071440 CUR A1071450 CUR A1071460 CUR A1071470 CUR A1071480 CUR A1071490 CUR A1071500 A1071510 100008

Beginning chain IL78SOUTH description  
=====

Point A099283 N 1,858,806.1379 E 2,351,622.6196 Sta 806+10.13  
Course from A099283 to PC A1071440 N 0° 40' 50.57" E Dist 623.4058'

**Curve Data**  
-----  
**Curve A1071440**  
P.I. Station 813+81.63 N 1,859,577.5798 E 2,351,631.7853  
Delta = 10° 33' 36.82" (RT)  
Degree = 3° 34' 32.12"  
Tangent = 148.0906'  
Length = 295.3423'  
Radius = 1,602.4153'  
External = 6.8285'  
Long Chord = 294.9245'  
Mid. Ord. = 6.7995'  
P.C. Station 812+33.54 N 1,859,429.4997 E 2,351,630.0259  
P.T. Station 815+28.88 N 1,859,722.8295 E 2,351,660.6534  
C.C. N 1,859,410.4623 E 2,353,232.3281

Course from PT A1071440 to PC A1071450 N 11° 14' 27.39" E Dist 1,183.3833'

**Curve Data**  
-----  
**Curve A1071450**  
P.I. Station 830+01.39 N 1,861,167.0878 E 2,351,947.6969  
Delta = 10° 58' 11.36" (LT)  
Degree = 1° 54' 10.44"  
Tangent = 289.1234'  
Length = 576.4793'  
Radius = 3,010.9725'  
External = 13.8494'  
Long Chord = 575.5992'  
Mid. Ord. = 13.7860'  
P.C. Station 827+12.27 N 1,860,883.5110 E 2,351,891.3365  
P.T. Station 832+88.74 N 1,861,456.2080 E 2,351,949.0650  
C.C. N 1,861,470.4557 E 2,348,938.1262

Course from PT A1071450 to PC A1071460 N 0° 16' 16.03" E Dist 264.9654'

**Curve Data**  
-----  
**Curve A1071460**  
P.I. Station 839+39.63 N 1,862,107.0894 E 2,351,952.1449  
Delta = 5° 04' 21.83" (RT)  
Degree = 0° 39' 27.54"  
Tangent = 385.9233'  
Length = 771.3424'  
Radius = 8,712.2055'  
External = 8.5434'  
Long Chord = 771.0905'  
Mid. Ord. = 8.5350'  
P.C. Station 835+53.71 N 1,861,721.1704 E 2,351,950.3188  
P.T. Station 843+25.05 N 1,862,491.3354 E 2,351,988.0870  
C.C. N 1,861,679.9450 E 2,360,662.4268

Course from PT A1071460 to PC A1071470 N 5° 20' 37.86" E Dist 1,404.2957'

**Curve Data**  
-----  
**Curve A1071470**  
P.I. Station 859+53.91 N 1,864,113.1088 E 2,352,139.7863  
Delta = 17° 28' 46.80" (LT)  
Degree = 3° 55' 21.00"  
Tangent = 224.5572'  
Length = 445.6257'  
Radius = 1,460.6956'  
External = 17.1601'  
Long Chord = 443.8996'  
Mid. Ord. = 16.9609'  
P.C. Station 857+29.35 N 1,863,889.5276 E 2,352,118.8727  
P.T. Station 861+74.97 N 1,864,332.6477 E 2,352,092.5777  
C.C. N 1,864,025.5660 E 2,350,664.5257

Course from PT A1071470 to PC A1071480 N 12° 08' 08.94" W Dist 1,134.4005'

**Curve Data**  
-----  
**Curve A1071480**  
P.I. Station 875+76.48 N 1,865,702.8302 E 2,351,797.9400  
Delta = 8° 04' 15.62" (RT)  
Degree = 1° 30' 48.04"  
Tangent = 267.1028'  
Length = 533.3220'  
Radius = 3,786.0342'  
External = 9.4103'  
Long Chord = 532.8812'  
Mid. Ord. = 9.3870'  
P.C. Station 873+09.37 N 1,865,441.6966 E 2,351,854.0930  
P.T. Station 878+42.70 N 1,865,969.2611 E 2,351,779.0065  
C.C. N 1,866,237.6336 E 2,355,555.5169

Course from PT A1071480 to PC A1071490 N 4° 03' 53.32" W Dist 31.8091'

**Curve Data**  
-----  
**Curve A1071490**  
P.I. Station 883+38.35 N 1,866,463.6697 E 2,351,743.8720  
Delta = 3° 47' 29.13" (RT)  
Degree = 0° 24' 31.84"  
Tangent = 463.8463'  
Length = 927.3541'  
Radius = 14,014.1144'  
External = 7.6742'  
Long Chord = 927.1849'  
Mid. Ord. = 7.6700'  
P.C. Station 878+74.51 N 1,866,000.9902 E 2,351,776.7517  
P.T. Station 888+01.86 N 1,866,927.5107 E 2,351,741.6588  
C.C. N 1,866,994.3785 E 2,365,755.6136

Course from PT A1071490 to PC A1071500 N 0° 16' 24.19" W Dist 3,065.0455'

**Curve Data**  
-----  
**Curve A1071500**  
P.I. Station 919+23.94 N 1,870,049.5523 E 2,351,726.7619  
Delta = 3° 28' 26.71" (LT)  
Degree = 3° 02' 48.07"  
Tangent = 57.0316'  
Length = 114.0283'  
Radius = 1,880.5935'  
External = 0.8646'  
Long Chord = 114.0109'  
Mid. Ord. = 0.8642'  
P.C. Station 918+66.90 N 1,869,992.5213 E 2,351,727.0340  
P.T. Station 919+80.93 N 1,870,106.4620 E 2,351,723.0344  
C.C. N 1,869,983.5481 E 2,349,846.4620

Course from PT A1071500 to A1071510 N 3° 44' 50.89" W Dist 100.7509'

Point A1071510 N 1,870,206.9975 E 2,351,716.4494 Sta 920+81.68

Course from A1071510 to 100008 N 3° 39' 36.83" W Dist 473.6100'

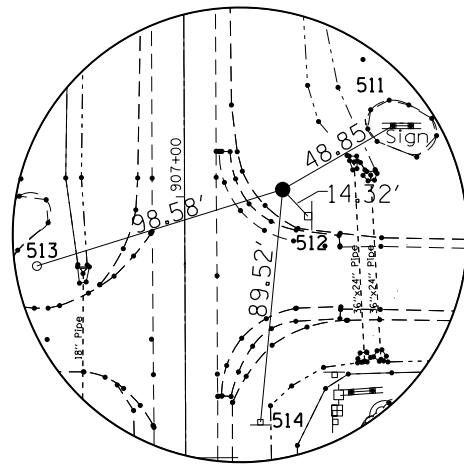
Point 100008 N 1,870,679.6414 E 2,351,686.2143 Sta 925+55.29

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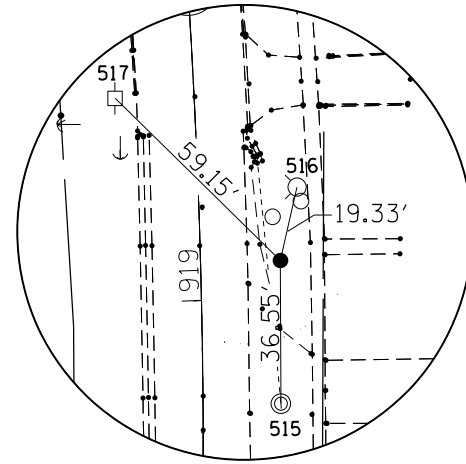
Ending chain IL78SOUTH description

CURVE POINT NUMBERS					
CHAIN	CURVE	PI	CC	PC	PT
IL78SOUTH	A1071440	1071440	1071441	1071442	1071443
IL78SOUTH	A1071450	1071450	1071451	1071452	1071453
IL78SOUTH	A1071460	1071460	1071461	1071462	1071463
IL78SOUTH	A1071470	1071470	1071471	1071472	1071473
IL78SOUTH	A1071480	1071480	1071481	1071482	1071483
IL78SOUTH	A1071490	1071490	1071491	1071492	1071493
IL78SOUTH	A1071500	1071500	1071501	1071502	1071503

# EXISTING HORIZONTAL & VERTICAL CONTROL



HORIZONTAL CONTROL POINT NO. 907123



SURVEY WORK POINT NO. 110

HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
907123	1868828.4206	2351770.1831	623.8998	IL78SOUTH	907+02.61	37.5941' RT	5/8" IRON PIN

SURVEY WORK POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
108	1869224.0279	2351892.5155	622.5258	IL78SOUTH	910+97.63	161.8127' RT	GPS CONTROL POINT, PK NAIL
109	1869179.1000	2351783.9700	620.4800	IL78SOUTH	910+53.22	53.0541' RT	GPS CONTROL POINT, PIN
110	1870035.8600	2351746.7500	635.5310	IL78SOUTH	919+09.69	20.4145' RT	GPS CONTROL POINT, PIN

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
400	1869163.9369	2351714.1047	627.4180	IL78SOUTH	910+38.39	16.8828' LT	TOP OF WINGWALL, CHISELED SQUARE
401	1869093.4351	2351747.0377	627.4150	IL78SOUTH	909+67.73	15.7135' RT	TOP OF WINGWALL, CHISELED SQUARE

REFERENCE TIES						
POINT	NORTH	EAST	CHAIN	STATION	OFFSET	DESCRIPTION
511	1868852.8289	2351812.4982	IL78SOUTH	907+26.82	80.0252' RT	SIGN FOUNDATION
512	1868818.2419	2351780.2595	IL78SOUTH	906+92.38	47.6218' RT	SIGN FOUNDATION, STOP SIGN
513	1868799.2580	2351676.0136	IL78SOUTH	906+73.90	56.7135' LT	ELECTRICAL SENSOR
514	1868739.3019	2351761.6738	IL78SOUTH	906+13.53	28.6597' RT	SIGN FOUNDATION, NO PASS
515	1869999.3025	2351746.8835	IL78SOUTH	918+73.52	19.8934' RT	MANHOLE LID
516	1870054.7170	2351751.0383	IL78SOUTH	919+28.17	25.3121' RT	FIRE HYDRANT
517	1870077.2732	2351704.5198	IL78SOUTH	919+52.71	20.1733' LT	POWER POLE

APPARENT PROPERTY CORNERS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
701	1864681.9577	2347943.1715	643.0779	IL78SOUTH	873+48.08	3983.646' LT	SECTION CORNER, SECTION CORNER
702	1867310.4985	2347942.2845	650.0014	IL78SOUTH	892+02.97	3797.5036' LT	SECTION CORNER, SECTION CORNER
703	1867388.5433	2347941.7315	660.2036	IL78SOUTH	892+81.02	3797.6842' LT	FENCE POST
704	1870053.3757	2347941.4018	622.3775	IL78SOUTH	921+69.37	3777.1543' LT	SECTION CORNER, SECTION CORNER
705	1869940.1110	2347941.3911	620.4242	IL78SOUTH	920+62.10	3784.4299' LT	SECTION CORNER, SECTION CORNER
706	1864792.7439	2353077.1122	620.2208	IL78SOUTH	864+17.81	1059.2581' RT	FENCE POST
707	1864787.6406	2352567.3703	624.9832	IL78SOUTH	865+19.98	559.835' RT	PROPERTY CORNER, PROPERTY CORNER
708	1864783.9465	2352021.6169	625.6964	IL78SOUTH	866+31.10	25.5015' RT	PROPERTY CORNER, PROPERTY CORNER
709	1868779.3569	2355701.6335	642.3863	IL78SOUTH	906+34.79	3968.7657' RT	SECTION CORNER, SECTION CORNER
710	1870101.4525	2355694.8649	633.9851	IL78SOUTH	918+95.84	3968.9978' RT	SECTION CORNER, SECTION CORNER
712	1869647.4510	2351056.5838	628.4672	IL78SOUTH	915+25.04	672.0891' LT	PI, PI
713	1869614.0238	2351017.0661	630.5089	IL78SOUTH	914+91.80	711.7658' LT	PROPERTY CORNER, PROPERTY CORNER
714	1870070.4222	2351360.5489	639.2108	IL78SOUTH	919+65.72	364.0163' LT	PROPERTY CORNER, PROPERTY CORNER
715	1870072.8664	2351690.7001	637.8143	IL78SOUTH	919+48.94	34.1937' LT	PROPERTY CORNER, PROPERTY CORNER
716	1869699.6909	2352167.6671	623.6080	IL78SOUTH	915+71.98	439.2308' RT	PROPERTY CORNER, PROPERTY CORNER
717	1869943.8233	2352169.7852	628.0281	IL78SOUTH	918+16.09	442.5138' RT	PROPERTY CORNER, PROPERTY CORNER
718	1870075.8220	2352169.3468	638.8196	IL78SOUTH	919+32.60	444.1234' RT	PROPERTY CORNER, PROPERTY CORNER
719	1869697.6466	2351788.2683	623.4649	IL78SOUTH	915+71.74	59.8266' RT	PROPERTY CORNER, PROPERTY CORNER
720	1868825.2603	2352569.0815	627.6386	IL78SOUTH	906+95.64	836.4683' RT	PROPERTY CORNER, PROPERTY CORNER
721	1868844.3905	2352569.0471	627.5826	IL78SOUTH	907+14.77	836.5252' RT	PROPERTY CORNER, PROPERTY CORNER
722	1868827.0782	2353069.2195	632.4449	IL78SOUTH	906+95.07	1336.6093' RT	PROPERTY CORNER, PROPERTY CORNER
723	1868891.8226	2353758.0914	644.7528	IL78SOUTH	907+56.53	2025.7823' RT	PROPERTY CORNER, PROPERTY CORNER
724	1868832.3530	2353818.3279	643.7743	IL78SOUTH	906+96.77	2085.7344' RT	PROPERTY CORNER, PROPERTY CORNER
725	1869263.1492	2354376.3676	630.8947	IL78SOUTH	911+24.90	2645.8232' RT	PROPERTY CORNER, PROPERTY CORNER
726	1869690.1371	2354374.4101	628.2993	IL78SOUTH	915+51.89	2645.9031' RT	PROPERTY CORNER, PROPERTY CORNER
727	1870091.0095	2354372.5221	628.4043	IL78SOUTH	919+02.57	2646.7422' RT	PROPERTY CORNER, PROPERTY CORNER
728	1870090.9837	2354379.4562	627.5316	IL78SOUTH	919+02.49	2653.6737' RT	PROPERTY CORNER, PROPERTY CORNER
729	1869258.7727	2353756.3388	641.3131	IL78SOUTH	911+23.48	2025.7806' RT	PROPERTY CORNER, PROPERTY CORNER
775	1866100.3662	2351729.8539	622.3413	IL78SOUTH	879+76.66	40.109' LT	PROPERTY CORNER, PROPERTY CORNER
776	1866082.5795	2350425.2515	618.5608	IL78SOUTH	880+36.20	1343.3392' LT	SECTION CORNER, SECTION CORNER
778	1868752.6651	2350660.5423	619.9544	IL78SOUTH	906+32.15	1072.3955' LT	PROPERTY CORNER, PROPERTY CORNER
779	1869258.3834	2350442.6917	639.2154	IL78SOUTH	911+38.90	1287.8306' LT	PROPERTY CORNER, PROPERTY CORNER
780	1869108.5990	2350440.6319	639.8907	IL78SOUTH	909+89.13	1290.6051' LT	PROPERTY CORNER, PROPERTY CORNER
781	1868960.9116	2350442.5987	639.9328	IL78SOUTH	908+41.44	1289.343' LT	PROPERTY CORNER, PROPERTY CORNER
782	1869766.9018	2350372.2904	641.2291	IL78SOUTH	916+47.75	1355.8047' LT	PROPERTY CORNER, PROPERTY CORNER
783	1869842.9744	2350372.2355	640.9850	IL78SOUTH	917+23.82	1355.4967' LT	PROPERTY CORNER, PROPERTY CORNER
784	1870063.4431	2350372.6009	642.6981	IL78SOUTH	920+26.27	1350.3577' LT	PROPERTY CORNER, PROPERTY CORNER
785	1870120.8386	2350372.9405	642.8745	IL78SOUTH	920+81.68	1346.2687' LT	PROPERTY CORNER, RAIL ROAD SPIKE
786	1870449.0620	2350371.8891	648.4540	IL78SOUTH	924+09.09	1326.3643' LT	PROPERTY CORNER, PIPE
787	1870393.8127	2350438.2883	647.0764	IL78SOUTH	923+49.72	1263.6276' LT	PROPERTY CORNER, PROPERTY CORNER
788	1870311.1635	2350433.4387	645.1221	IL78SOUTH	922+67.54	1273.7436' LT	PROPERTY CORNER, PROPERTY CORNER
789	1870063.7376	2350438.6856	641.4267	IL78SOUTH	920+22.24	1284.395' LT	PROPERTY CORNER, PROPERTY CORNER

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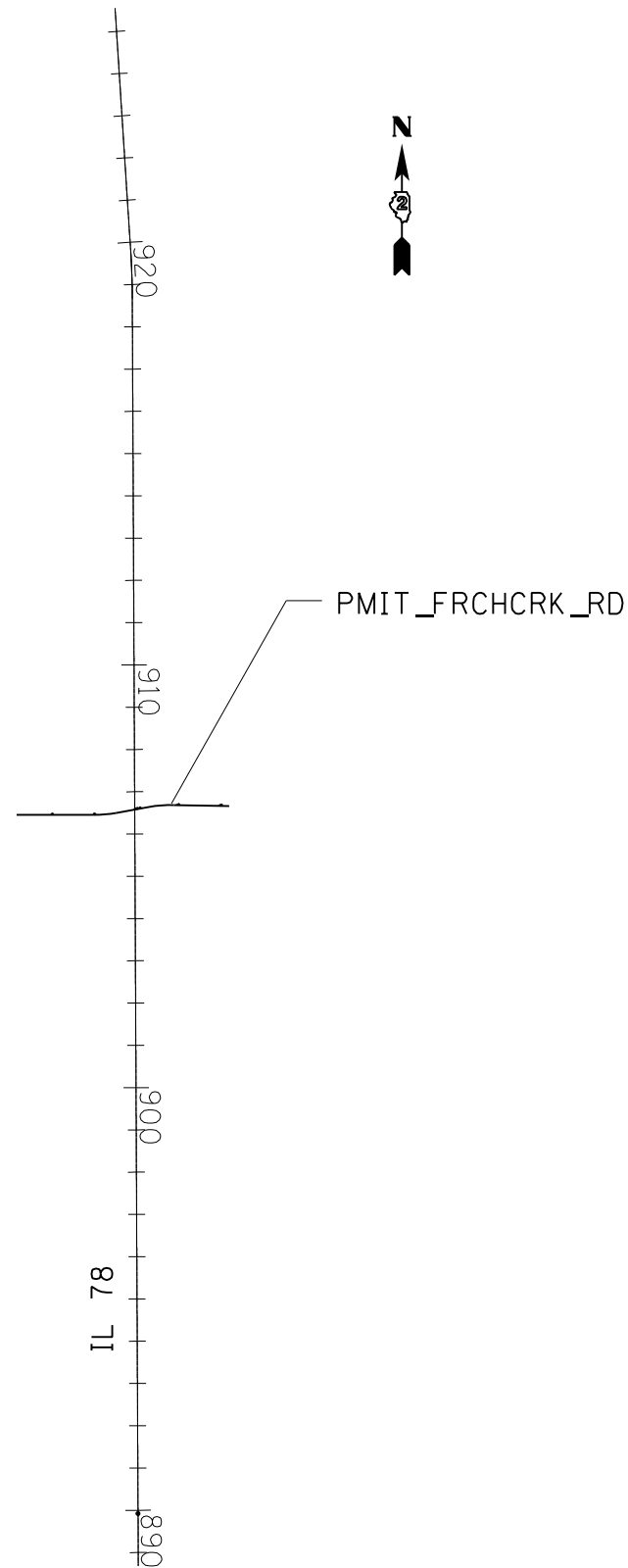
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING HORIZONTAL & VERTICAL  
CONTROL SHEETS

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_\_ OF \_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	15BR-1	WHITESIDE	146	27
CONTRACT NO. 64F19				
ILLINOIS FED. AID PROJECT				

# PROPOSED HORIZONTAL CONTROL



CURVE POINT NUMBERS					
CHAIN	CURVE	PI	CC	PC	PT
PMIT_FRCHCRK_RD	70300	70300	70301	70302	70303
PMIT_FRCHCRK_RD	70310	70310	70311	70312	70313

## PMIT\_FRCHCRK\_RD

Chain PMIT\_FRCHCRK\_RD contains:  
70001 CUR 70300 CUR 70310 70002

Beginning chain PMIT\_FRCHCRK\_RD description  
=====

Point 70001 N 1,868,770.6626 E 2,351,453.0746 Sta 97+19.28

Course from 70001 to PC 70300 N 89° 59' 06.64" E Dist 182.9630'

Curve Data  
-----

**Curve 70300**  
**P.I. Station 99+29.17 N 1,868,770.7169 E 2,351,662.9664**  
 Delta = 10° 15' 30.83" (LT)  
 Degree = 19° 05' 54.94"  
 Tangent = 26.9288'  
 Length = 53.7137'  
 Radius = 300.0000'  
 External = 1.2062'  
 Long Chord = 53.6420'  
 Mid. Ord. = 1.2013'  
**P.C. Station 99+02.24 N 1,868,770.7099 E 2,351,636.0376**  
**P.T. Station 99+55.95 N 1,868,775.5195 E 2,351,689.4635**  
 C.C. N 1,869,070.7099 E 2,351,635.9600

Course from PT 70300 to PC 70310 N 79° 43' 35.81" E Dist 78.0805'

Curve Data  
-----

**Curve 70310**  
**P.I. Station 100+63.96 N 1,868,794.7824 E 2,351,795.7410**  
 Delta = 11° 23' 39.00" (RT)  
 Degree = 19° 05' 54.94"  
 Tangent = 29.9286'  
 Length = 59.6597'  
 Radius = 300.0000'  
 External = 1.4892'  
 Long Chord = 59.5615'  
 Mid. Ord. = 1.4818'  
**P.C. Station 100+34.03 N 1,868,789.4448 E 2,351,766.2922**  
**P.T. Station 100+93.69 N 1,868,794.1970 E 2,351,825.6638**  
 C.C. N 1,868,494.2544 E 2,351,819.7958

Course from PT 70310 to 70002 S 88° 52' 45.19" E Dist 130.9763'

Point 70002 N 1,868,791.6351 E 2,351,956.6150 Sta 102+24.67

Ending chain PMIT\_FRCHCRK\_RD description  
=====

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	PLOT DATE = Fri Jun 13 09:16:41 2014	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EXISTING HORIZONTAL & VERTICAL  
CONTROL SHEETS**

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_\_ OF \_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	15BR-1	WHITESIDE	146	28
CONTRACT NO. 64F19				
ILLINOIS FED. AID PROJECT				



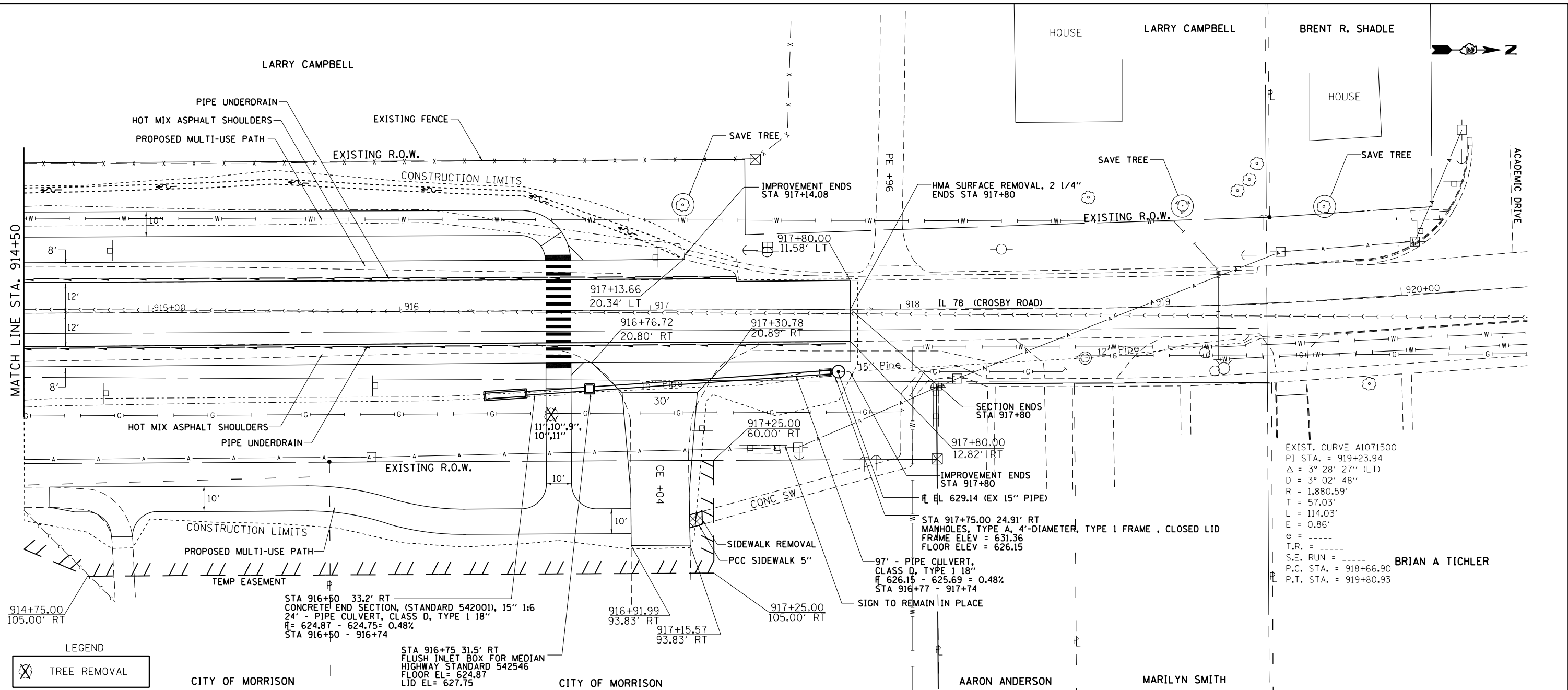






DATE	
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PLAN	
SURVEYED	
PLOTTED	
NOTE BOOK	
ALIGNED	
CHECKED	
NO.	
CADD FILE NAME	

DATE	
BY	
PROFILE	
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NOTATIONS	
CHFD	

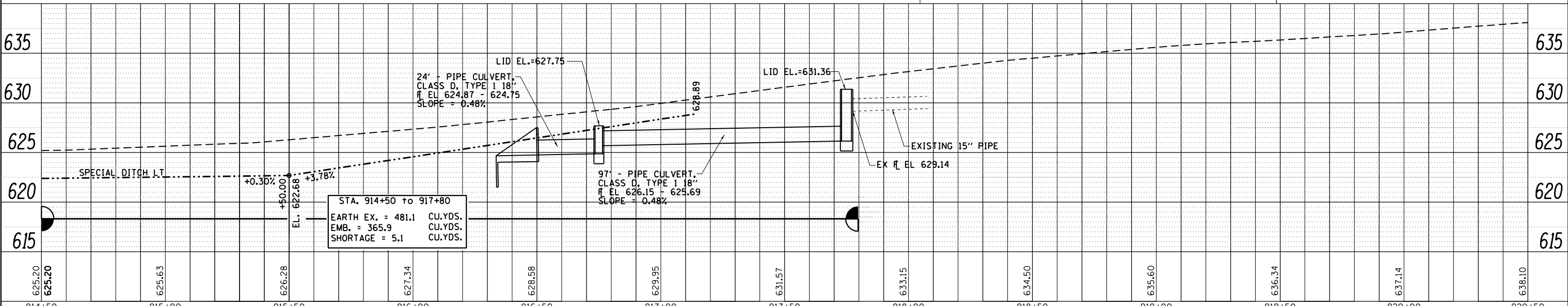


LEGEND  
 TREE REMOVAL

STA 916+50 33.2' RT  
 CONCRETE END SECTION, (STANDARD 542001), 15" 1:6  
 24" - PIPE CULVERT, CLASS D, TYPE 1 18"  
 FLOOR ELEV = 624.87 - 624.75 = 0.48%  
 STA 916+50 - 916+74

STA 916+75 31.5' RT  
 FLUSH INLET BOX FOR MEDIAN  
 HIGHWAY STANDARD 542546  
 FLOOR EL = 624.87  
 LID EL = 627.75

97' - PIPE CULVERT,  
 CLASS D, TYPE 1 18"  
 FLOOR ELEV = 626.15 - 625.69 = 0.48%  
 STA 916+77 - 917+74

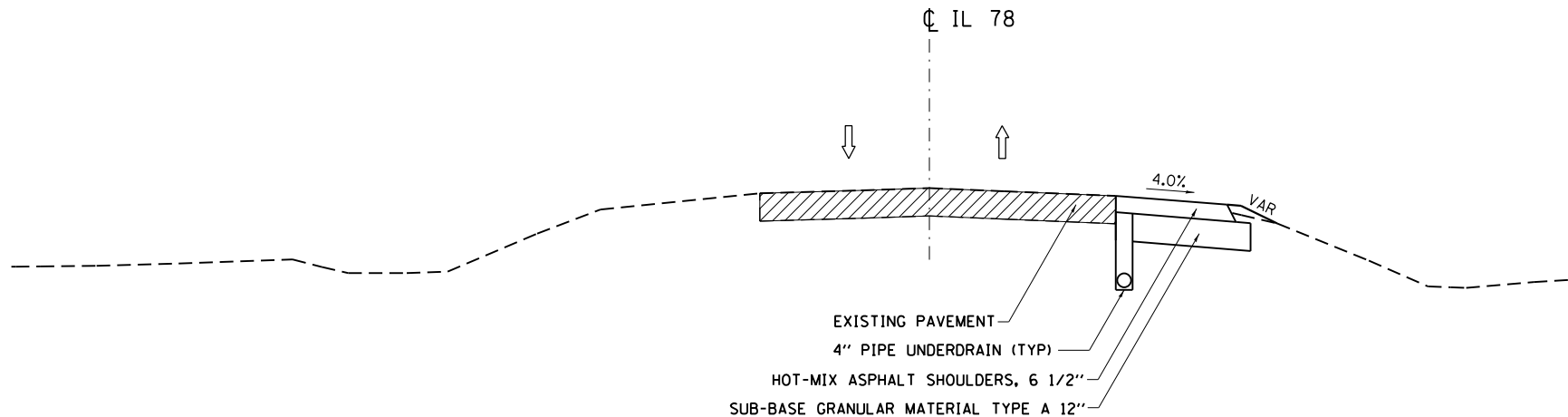


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PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -								
PLOT DATE = Fri Jun 13 10:14:08 2014	DATE -	REVISED -								



# STAGING – TYPICAL SECTIONS

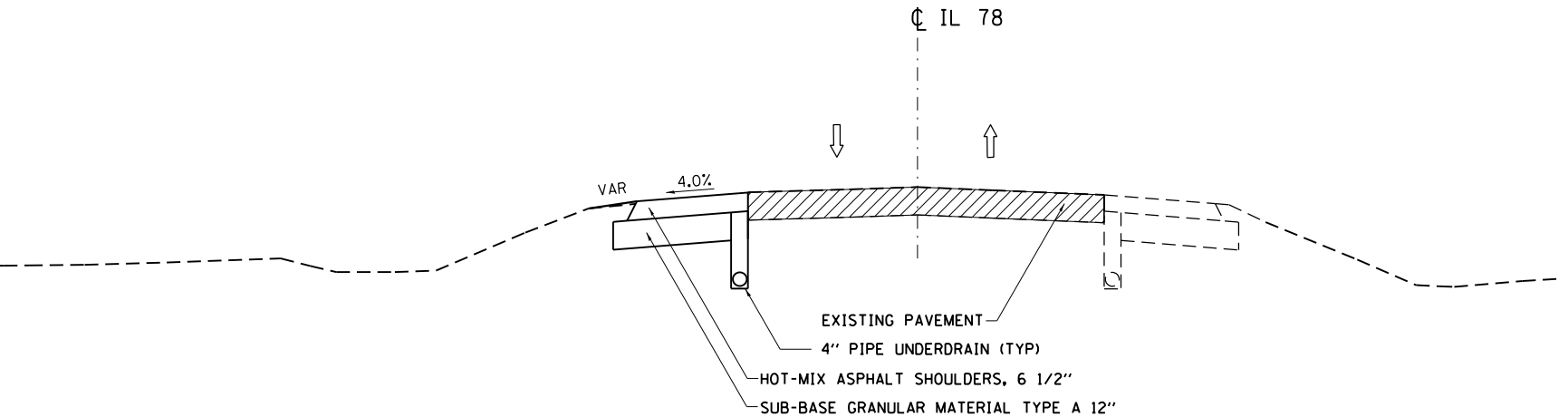
## PRE STAGE 1



### DROP-OFF RESTRICTIONS

DROP-OFFS GREATER THAN 12" BUT LESS THAN OR EQUAL TO 18" ARE ALLOWED DURING NON-WORKING HOURS FOR A MAXIMUM OF 48 HOURS. DROP-OFFS GREATER THAN 18" (OR GREATER THAN 12" AND GREATER THAN 48 HOURS) ARE ALLOWED WHEN THE ADJACENT LANE IS CLOSED, OR WHEN FLAGGERS ARE REGULATING TRAFFIC.

## PRE STAGE 2



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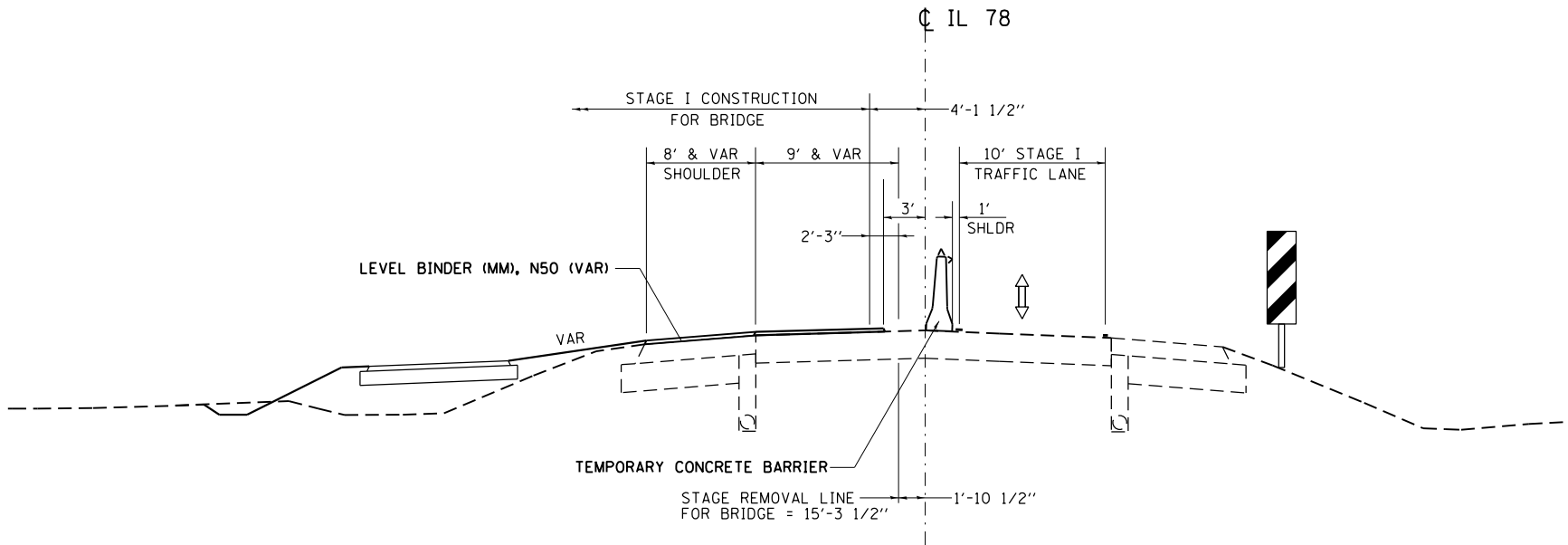
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STAGING – TYPICAL SECTIONS  
SCALE: \_\_\_\_\_ SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

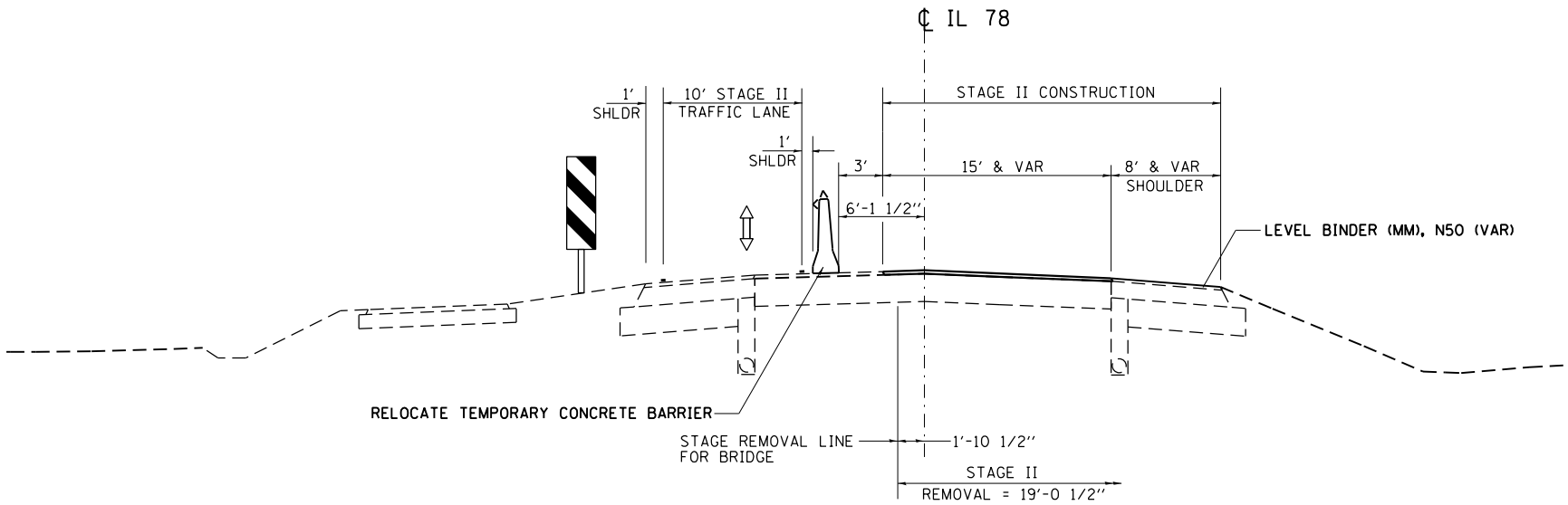
* IL 78	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	* 22	1588-1	WHITESIDE	146	34
	FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E19	

# STAGING – TYPICAL SECTIONS

## STAGE 1



## STAGE 2



\* IL 78

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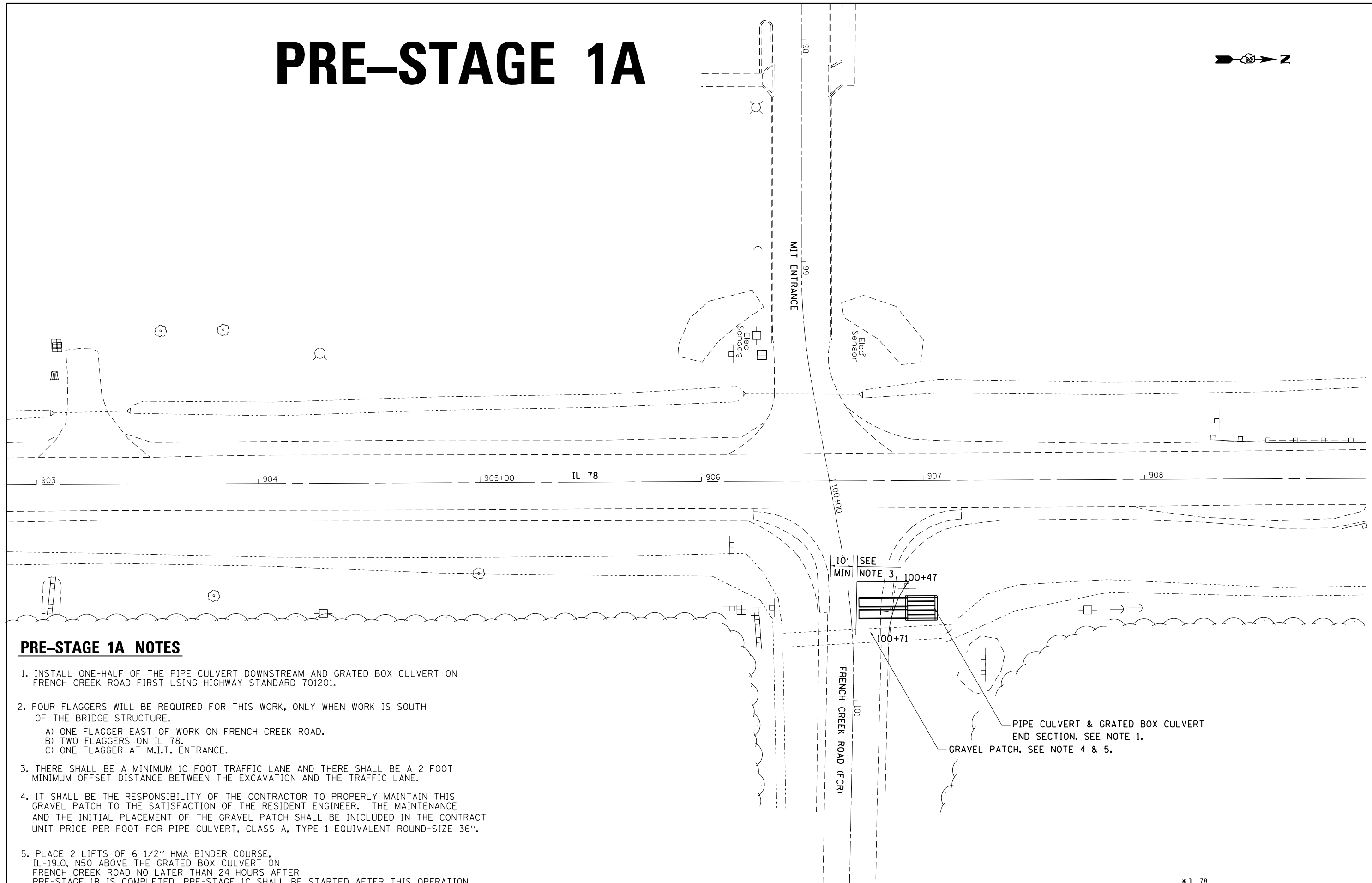
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STAGING – TYPICAL SECTIONS

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_\_ OF \_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*22	1588-1	WHITESIDE	146	35
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT			CONTRACT NO. 64E19	

# PRE-STAGE 1A



## PRE-STAGE 1A NOTES

1. INSTALL ONE-HALF OF THE PIPE CULVERT DOWNSTREAM AND GRATED BOX CULVERT ON FRENCH CREEK ROAD FIRST USING HIGHWAY STANDARD 701201.
2. FOUR FLAGGERS WILL BE REQUIRED FOR THIS WORK, ONLY WHEN WORK IS SOUTH OF THE BRIDGE STRUCTURE.
  - A) ONE FLAGGER EAST OF WORK ON FRENCH CREEK ROAD.
  - B) TWO FLAGGERS ON IL 78.
  - C) ONE FLAGGER AT M.I.T. ENTRANCE.
3. THERE SHALL BE A MINIMUM 10 FOOT TRAFFIC LANE AND THERE SHALL BE A 2 FOOT MINIMUM OFFSET DISTANCE BETWEEN THE EXCAVATION AND THE TRAFFIC LANE.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY MAINTAIN THIS GRAVEL PATCH TO THE SATISFACTION OF THE RESIDENT ENGINEER. THE MAINTENANCE AND THE INITIAL PLACEMENT OF THE GRAVEL PATCH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR PIPE CULVERT, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36".
5. PLACE 2 LIFTS OF 6 1/2" HMA BINDER COURSE, IL-19.0, N50 ABOVE THE GRATED BOX CULVERT ON FRENCH CREEK ROAD NO LATER THAN 24 HOURS AFTER PRE-STAGE 1B IS COMPLETED. PRE-STAGE 1C SHALL BE STARTED AFTER THIS OPERATION.

PIPE CULVERT & GRATED BOX CULVERT  
END SECTION. SEE NOTE 1.  
GRAVEL PATCH. SEE NOTE 4 & 5.

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

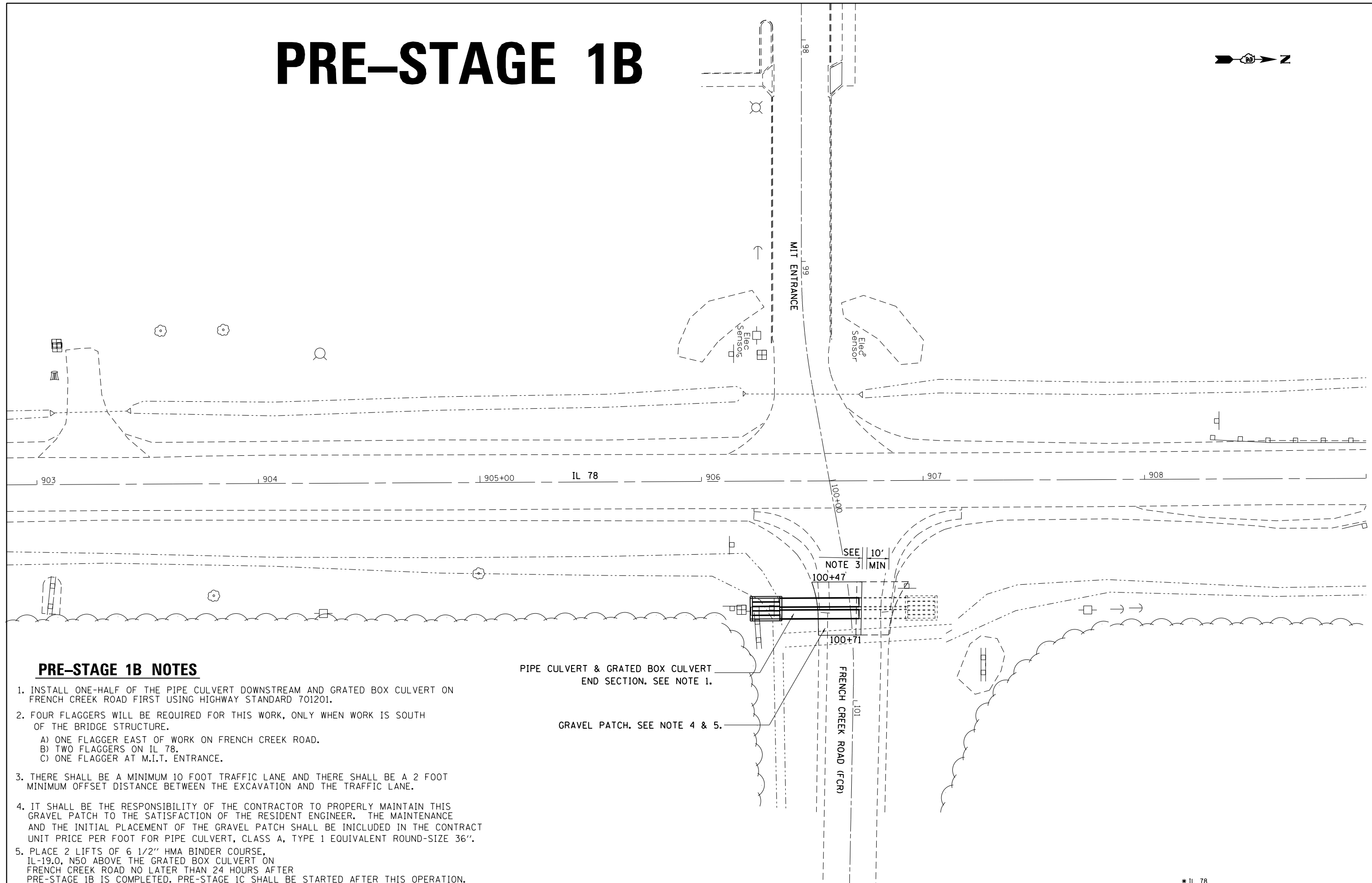
IL 78 STAGING DETAILS		
PRE-STAGE 1A		
SCALE: 20' / IN.	SHEET NO. 1 OF 14 SHEETS	STA. 903+00 TO STA. 909+00

\* IL 78

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#22	15BR-1	WHITESIDE	146	36
CONTRACT NO. 64F19			ILLINOIS FED. AID PROJECT	



# PRE-STAGE 1B



## PRE-STAGE 1B NOTES

1. INSTALL ONE-HALF OF THE PIPE CULVERT DOWNSTREAM AND GRATED BOX CULVERT ON FRENCH CREEK ROAD FIRST USING HIGHWAY STANDARD 701201.
2. FOUR FLAGGERS WILL BE REQUIRED FOR THIS WORK, ONLY WHEN WORK IS SOUTH OF THE BRIDGE STRUCTURE.
  - A) ONE FLAGGER EAST OF WORK ON FRENCH CREEK ROAD.
  - B) TWO FLAGGERS ON IL 78.
  - C) ONE FLAGGER AT M.I.T. ENTRANCE.
3. THERE SHALL BE A MINIMUM 10 FOOT TRAFFIC LANE AND THERE SHALL BE A 2 FOOT MINIMUM OFFSET DISTANCE BETWEEN THE EXCAVATION AND THE TRAFFIC LANE.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY MAINTAIN THIS GRAVEL PATCH TO THE SATISFACTION OF THE RESIDENT ENGINEER. THE MAINTENANCE AND THE INITIAL PLACEMENT OF THE GRAVEL PATCH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR PIPE CULVERT, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36".
5. PLACE 2 LIFTS OF 6 1/2" HMA BINDER COURSE, IL-19.0, N50 ABOVE THE GRATED BOX CULVERT ON FRENCH CREEK ROAD NO LATER THAN 24 HOURS AFTER PRE-STAGE 1B IS COMPLETED. PRE-STAGE 1C SHALL BE STARTED AFTER THIS OPERATION.

PIPE CULVERT & GRATED BOX CULVERT  
END SECTION. SEE NOTE 1.

GRAVEL PATCH. SEE NOTE 4 & 5.

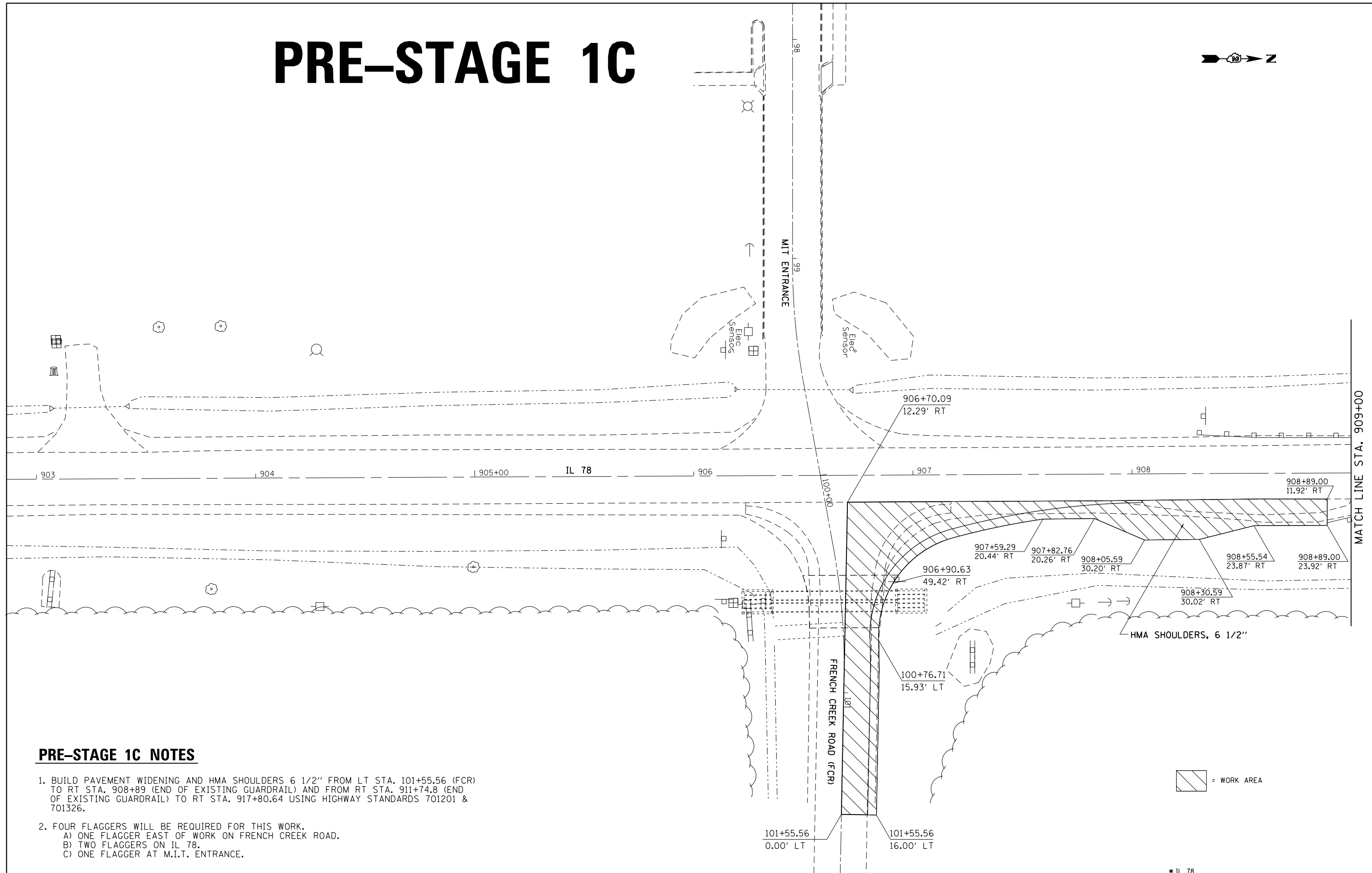
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 78 STAGING DETAILS		
PRE-STAGE 1B		
SCALE: 20' / IN.	SHEET NO. 1 OF 14 SHEETS	STA. 903+00 TO STA. 909+00

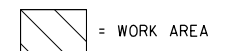
* IL 78	F.A.P. RTE. #22	SECTION 15BR-1	COUNTY WHITESIDE	TOTAL SHEETS 146	SHEET NO. 37
				CONTRACT NO. 64F19	
ILLINOIS FED. AID PROJECT					

# PRE-STAGE 1C



## PRE-STAGE 1C NOTES

1. BUILD PAVEMENT WIDENING AND HMA SHOULDERS 6 1/2" FROM LT STA. 101+55.56 (FCR) TO RT STA. 908+89 (END OF EXISTING GUARDRAIL) AND FROM RT STA. 911+74.8 (END OF EXISTING GUARDRAIL) TO RT STA. 917+80.64 USING HIGHWAY STANDARDS 701201 & 701326.
2. FOUR FLAGGERS WILL BE REQUIRED FOR THIS WORK.
  - A) ONE FLAGGER EAST OF WORK ON FRENCH CREEK ROAD.
  - B) TWO FLAGGERS ON IL 78.
  - C) ONE FLAGGER AT M.I.T. ENTRANCE.



\* IL 78

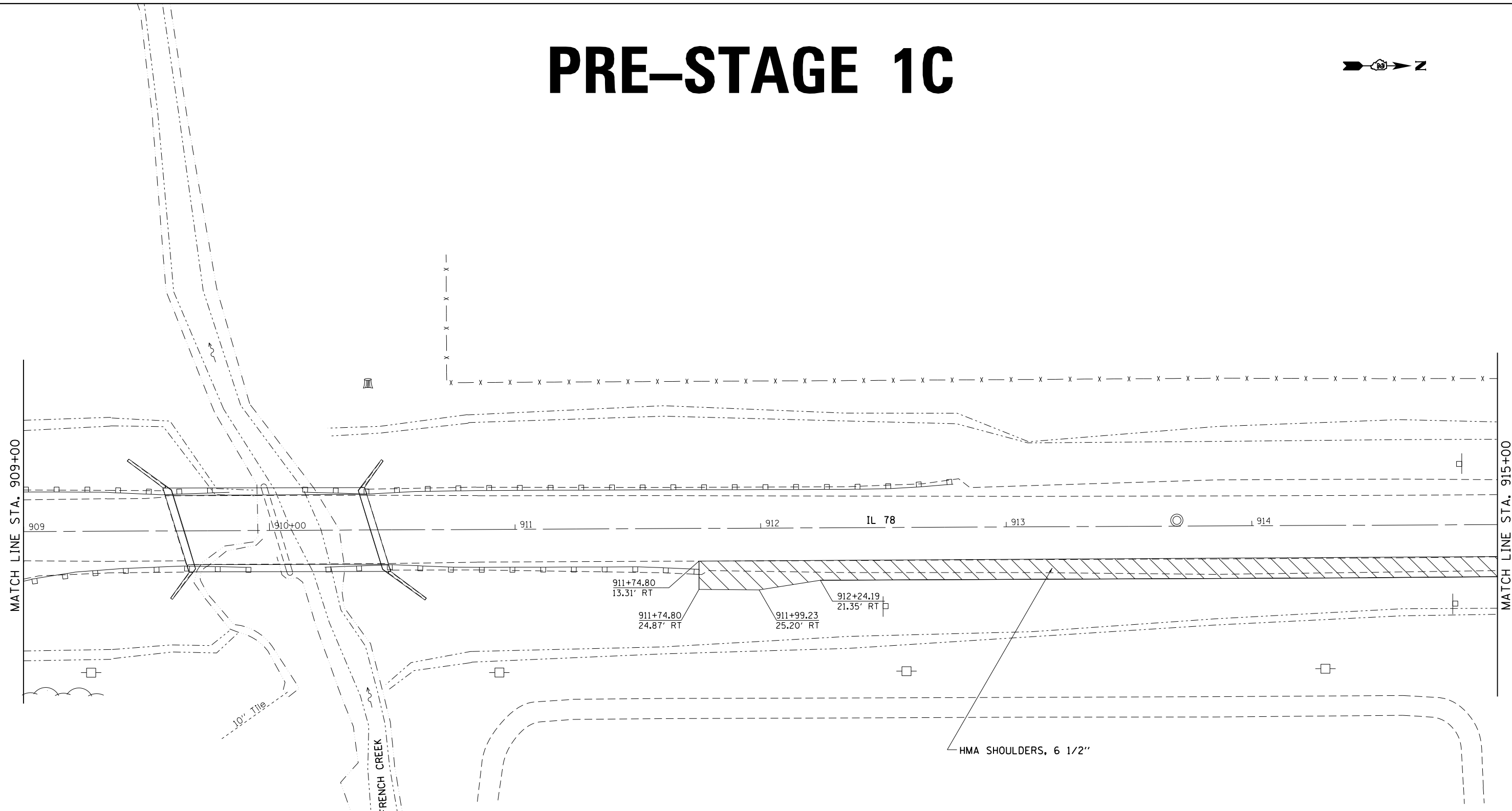
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IL 78 STAGING DETAILS</b>		
<b>PRE-STAGE 1C</b>		
SCALE: 20' / IN.	SHEET NO. 1 OF 14 SHEETS	STA. 903+00 TO STA. 909+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*22	15BR-1	WHITESIDE	146	38
CONTRACT NO. 64F19			ILLINOIS FED. AID PROJECT	

# PRE-STAGE 1C



## PRE-STAGE 1C NOTES

1. BUILD PAVEMENT WIDENING AND HMA SHOULDERS 6 1/2" FROM LT STA. 101+55.56 (FCR) TO RT STA. 908+89 (END OF EXISTING GUARDRAIL) AND FROM RT STA. 911+74.8 (END OF EXISTING GUARDRAIL) TO RT STA. 917+80.64 USING HIGHWAY STANDARDS 701201 & 701326.
2. FOUR FLAGGERS WILL BE REQUIRED FOR THIS WORK.
  - A) ONE FLAGGER EAST OF WORK ON FRENCH CREEK ROAD.
  - B) TWO FLAGGERS ON IL 78.
  - C) ONE FLAGGER AT M.I.T. ENTRANCE.

= WORK AREA

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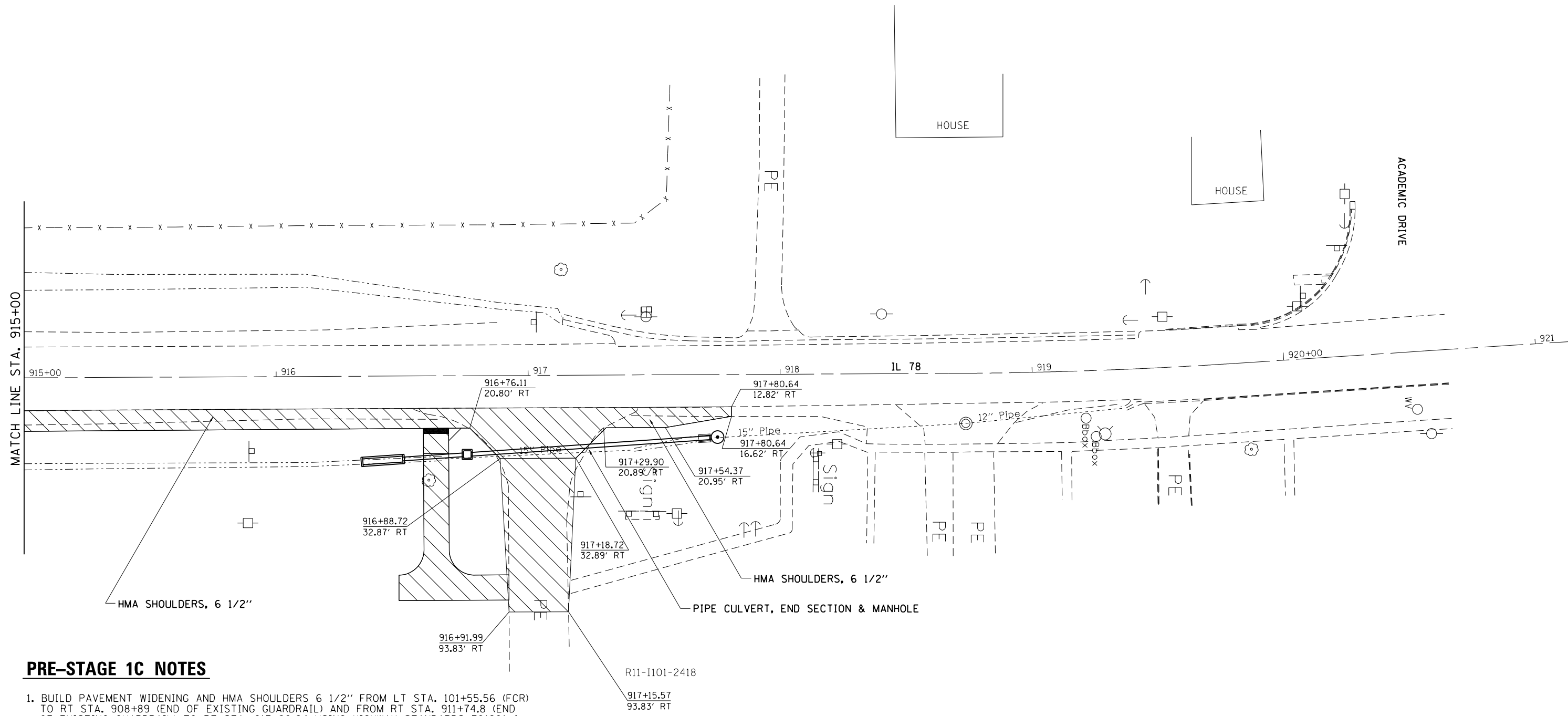
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IL 78 STAGING DETAILS</b>		
<b>PRE-STAGE 1C</b>		
SCALE: 20' / IN.	SHEET NO. 2 OF 14 SHEETS	STA. 909+00 TO STA. 915+00

\* IL 78

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*22	15BR-1	WHITESIDE	146	39
CONTRACT NO. 64E19			ILLINOIS FED. AID PROJECT	

# PRE-STAGE 1C



## PRE-STAGE 1C NOTES

1. BUILD PAVEMENT WIDENING AND HMA SHOULDERS 6 1/2" FROM LT STA. 101+55.56 (FCR) TO RT STA. 908+89 (END OF EXISTING GUARDRAIL) AND FROM RT STA. 911+74.8 (END OF EXISTING GUARDRAIL) TO RT STA. 917+80.64 USING HIGHWAY STANDARDS 701201 & 701326.
2. USE HIGHWAY STANDARD 701801 WHERE APPLICABLE.

= WORK AREA

FILE NAME =	USER NAME = Fasslermj	DESIGNED -	REVISED -
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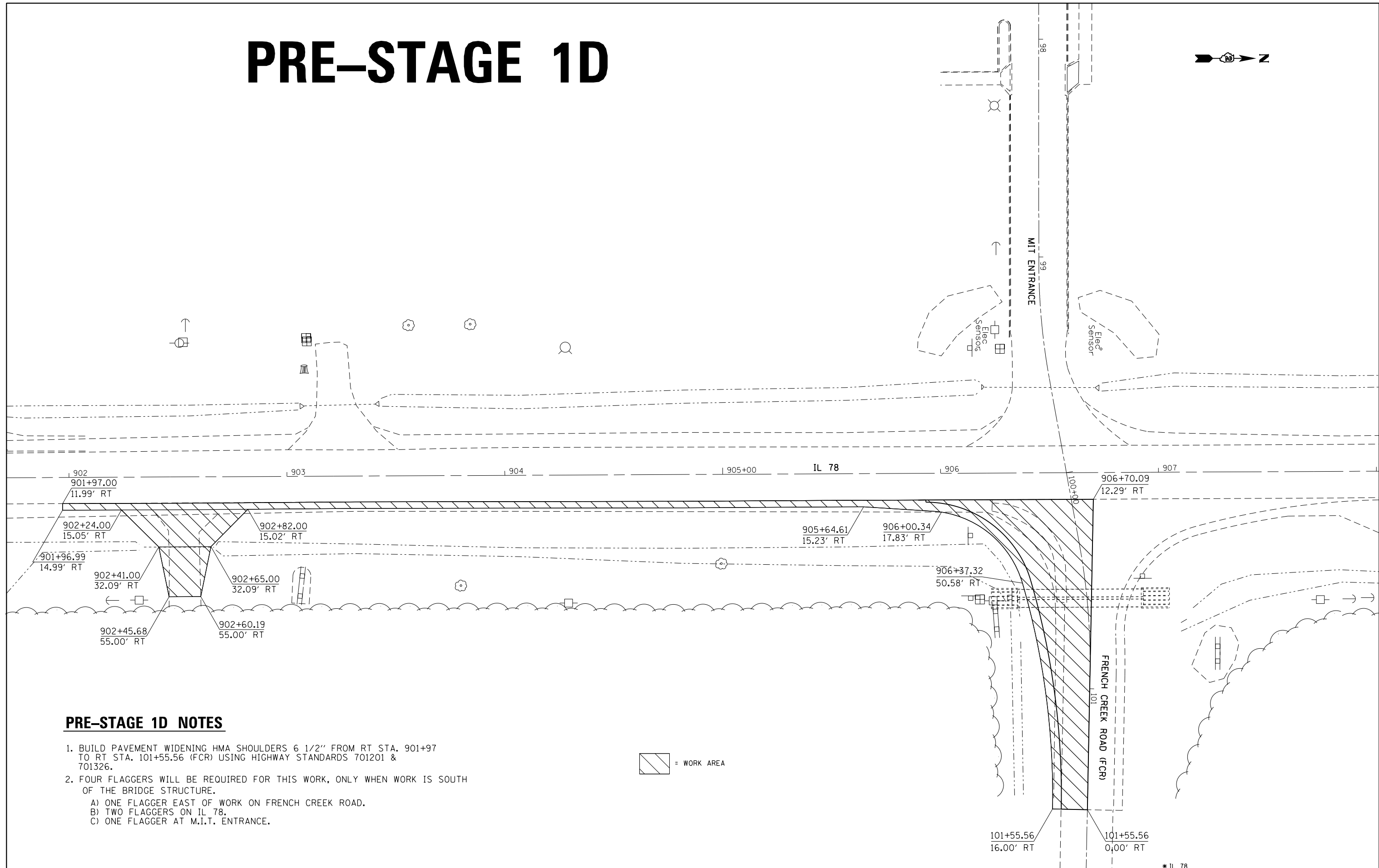
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IL 78 STAGING DETAILS</b>		
<b>PRE-STAGE 1C</b>		
SCALE: 20' / IN.	SHEET NO. 3 OF 14 SHEETS	STA. 915+00 TO STA. 921+00

\* IL 78

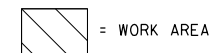
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#22	15BR-1	WHITESIDE	146	40
CONTRACT NO. 64F19			ILLINOIS FED. AID PROJECT	

# PRE-STAGE 1D



## PRE-STAGE 1D NOTES

1. BUILD PAVEMENT WIDENING HMA SHOULDERS 6 1/2" FROM RT STA. 901+97 TO RT STA. 101+55.56 (FCR) USING HIGHWAY STANDARDS 701201 & 701326.
2. FOUR FLAGGERS WILL BE REQUIRED FOR THIS WORK, ONLY WHEN WORK IS SOUTH OF THE BRIDGE STRUCTURE.
  - A) ONE FLAGGER EAST OF WORK ON FRENCH CREEK ROAD.
  - B) TWO FLAGGERS ON IL 78.
  - C) ONE FLAGGER AT M.I.T. ENTRANCE.



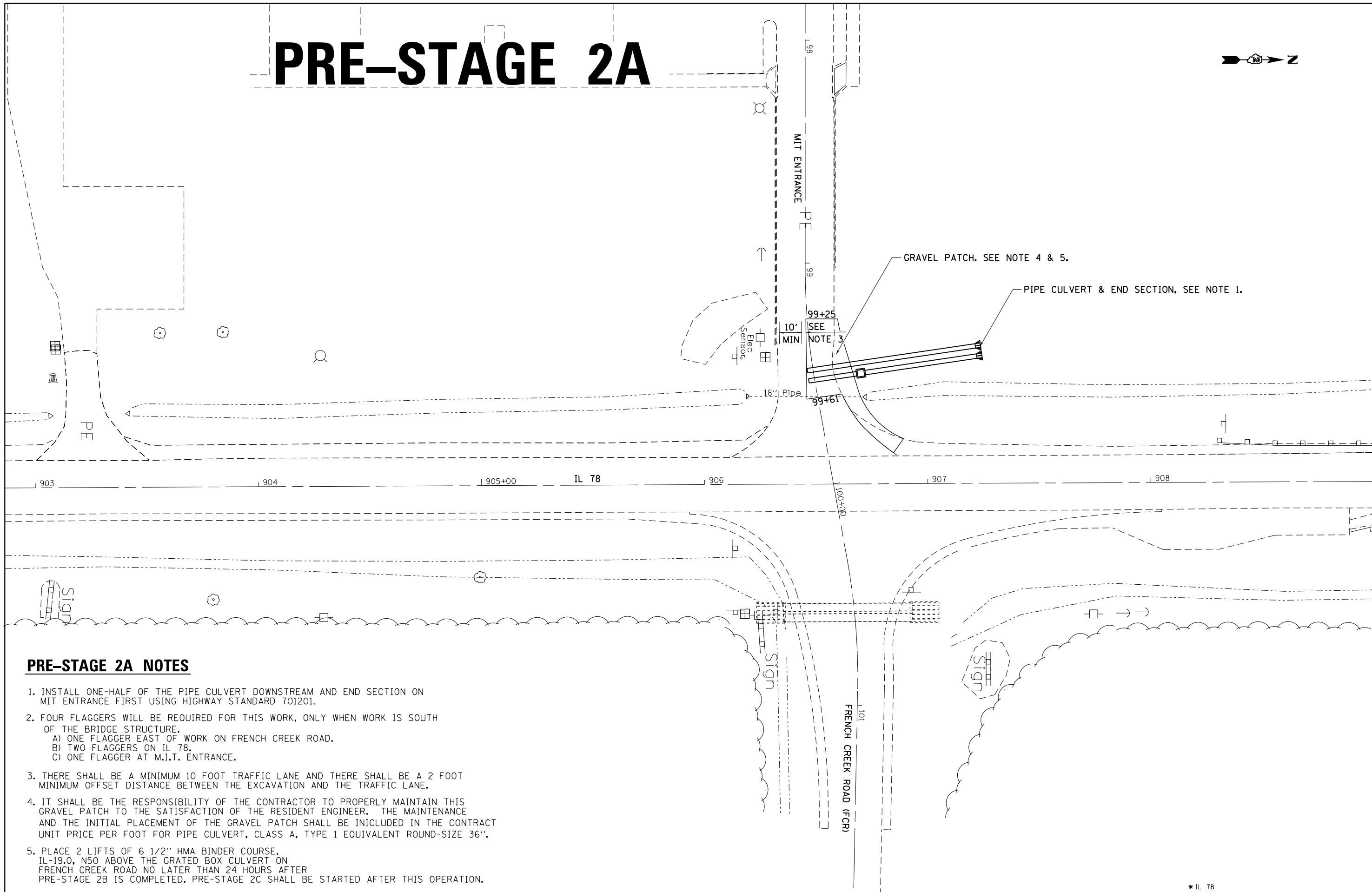
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IL 78 STAGING DETAILS</b>		
<b>PRE-STAGE 1D</b>		
SCALE: 20' / IN.	SHEET NO. 4 OF 14 SHEETS	STA. 903+00 TO STA. 909+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#22	15BR-1	WHITESIDE	146	41
CONTRACT NO. 64E19			ILLINOIS FED. AID PROJECT	

# PRE-STAGE 2A



## PRE-STAGE 2A NOTES

1. INSTALL ONE-HALF OF THE PIPE CULVERT DOWNSTREAM AND END SECTION ON MIT ENTRANCE FIRST USING HIGHWAY STANDARD 701201.
2. FOUR FLAGGERS WILL BE REQUIRED FOR THIS WORK, ONLY WHEN WORK IS SOUTH OF THE BRIDGE STRUCTURE.
  - A) ONE FLAGGER EAST OF WORK ON FRENCH CREEK ROAD.
  - B) TWO FLAGGERS ON IL 78.
  - C) ONE FLAGGER AT M.I.T. ENTRANCE.
3. THERE SHALL BE A MINIMUM 10 FOOT TRAFFIC LANE AND THERE SHALL BE A 2 FOOT MINIMUM OFFSET DISTANCE BETWEEN THE EXCAVATION AND THE TRAFFIC LANE.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY MAINTAIN THIS GRAVEL PATCH TO THE SATISFACTION OF THE RESIDENT ENGINEER. THE MAINTENANCE AND THE INITIAL PLACEMENT OF THE GRAVEL PATCH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR PIPE CULVERT, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36".
5. PLACE 2 LIFTS OF 6 1/2" HMA BINDER COURSE, IL-19.0, N50 ABOVE THE GRATED BOX CULVERT ON FRENCH CREEK ROAD NO LATER THAN 24 HOURS AFTER PRE-STAGE 2B IS COMPLETED. PRE-STAGE 2C SHALL BE STARTED AFTER THIS OPERATION.

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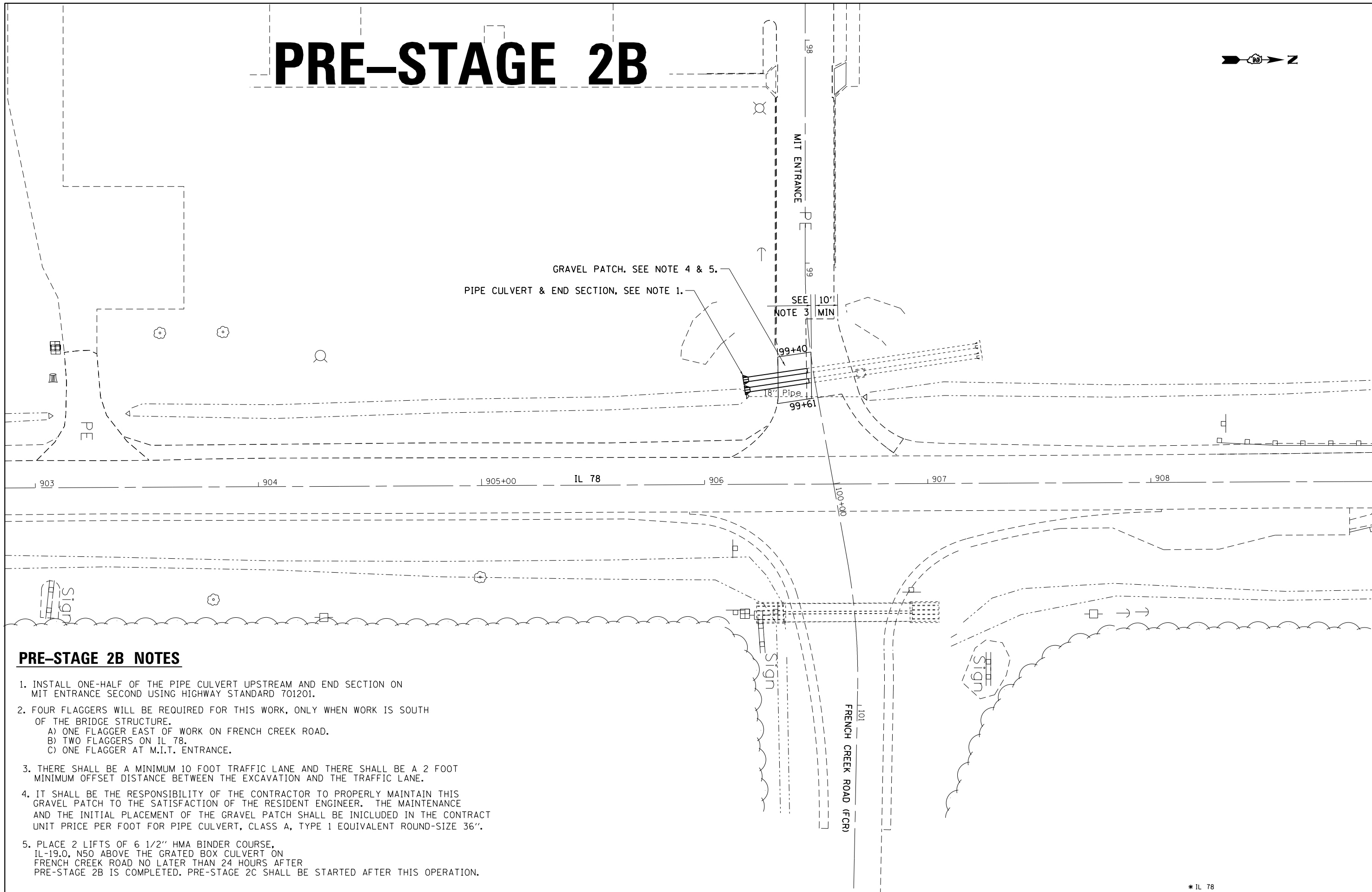
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IL 78 STAGING DETAILS</b>		
<b>PRE-STAGE 2A</b>		
SCALE: 20' / IN.	SHEET NO. 5 OF 14 SHEETS	STA. 903+00 TO STA. 909+00

\* IL 78

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#22	15BR-1	WHITESIDE	146	42
CONTRACT NO. 64F19			ILLINOIS FED. AID PROJECT	

# PRE-STAGE 2B



## PRE-STAGE 2B NOTES

1. INSTALL ONE-HALF OF THE PIPE CULVERT UPSTREAM AND END SECTION ON MIT ENTRANCE SECOND USING HIGHWAY STANDARD 701201.
2. FOUR FLAGGERS WILL BE REQUIRED FOR THIS WORK, ONLY WHEN WORK IS SOUTH OF THE BRIDGE STRUCTURE.
  - A) ONE FLAGGER EAST OF WORK ON FRENCH CREEK ROAD.
  - B) TWO FLAGGERS ON IL 78.
  - C) ONE FLAGGER AT M.I.T. ENTRANCE.
3. THERE SHALL BE A MINIMUM 10 FOOT TRAFFIC LANE AND THERE SHALL BE A 2 FOOT MINIMUM OFFSET DISTANCE BETWEEN THE EXCAVATION AND THE TRAFFIC LANE.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY MAINTAIN THIS GRAVEL PATCH TO THE SATISFACTION OF THE RESIDENT ENGINEER. THE MAINTENANCE AND THE INITIAL PLACEMENT OF THE GRAVEL PATCH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR PIPE CULVERT, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36".
5. PLACE 2 LIFTS OF 6 1/2" HMA BINDER COURSE, IL-19.0, N50 ABOVE THE GRATED BOX CULVERT ON FRENCH CREEK ROAD NO LATER THAN 24 HOURS AFTER PRE-STAGE 2B IS COMPLETED. PRE-STAGE 2C SHALL BE STARTED AFTER THIS OPERATION.

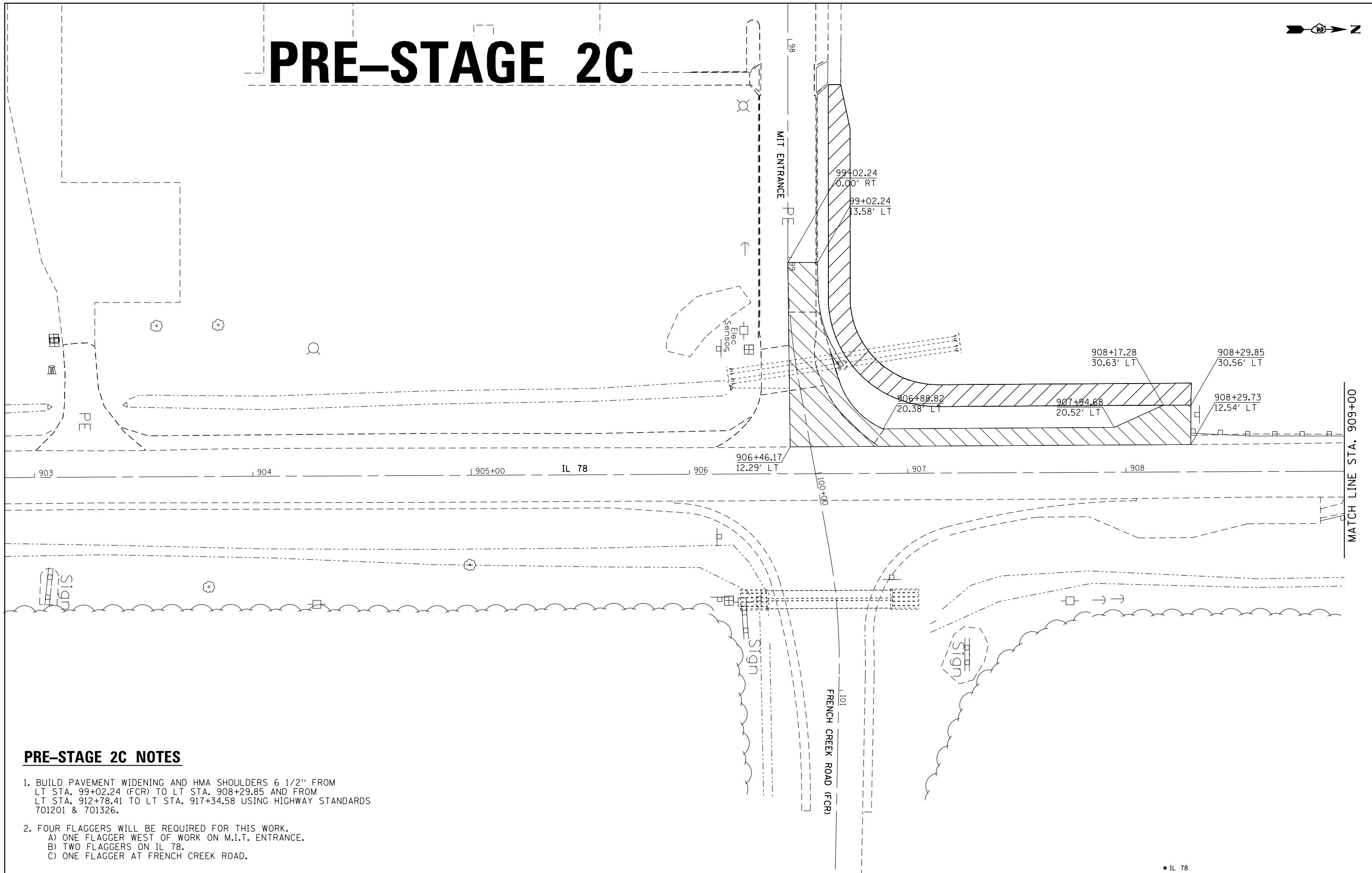
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IL 78 STAGING DETAILS</b>		
<b>PRE-STAGE 2B</b>		
SCALE: 20' / IN.	SHEET NO. 5 OF 14 SHEETS	STA. 903+00 TO STA. 909+00

* IL 78	F.A.P. RTE. #22	SECTION 15BR-1	COUNTY WHITESIDE	TOTAL SHEETS 146	SHEET NO. 43
				CONTRACT NO. 64F19	
	ILLINOIS FED. AID PROJECT				

# PRE-STAGE 2C



## PRE-STAGE 2C NOTES

1. BUILD PAVEMENT WIDENING AND HMA SHOULDERS 6 1/2" FROM LT STA. 99+02.24 (FCR) TO LT STA. 908+29.85 AND FROM LT STA. 912+78.41 TO LT STA. 917+34.58 USING HIGHWAY STANDARDS 701201 & 701326.
2. FOUR FLAGGERS WILL BE REQUIRED FOR THIS WORK.
  - A) ONE FLAGGER WEST OF WORK ON M.I.T. ENTRANCE.
  - B) TWO FLAGGERS ON IL 78.
  - C) ONE FLAGGER AT FRENCH CREEK ROAD.

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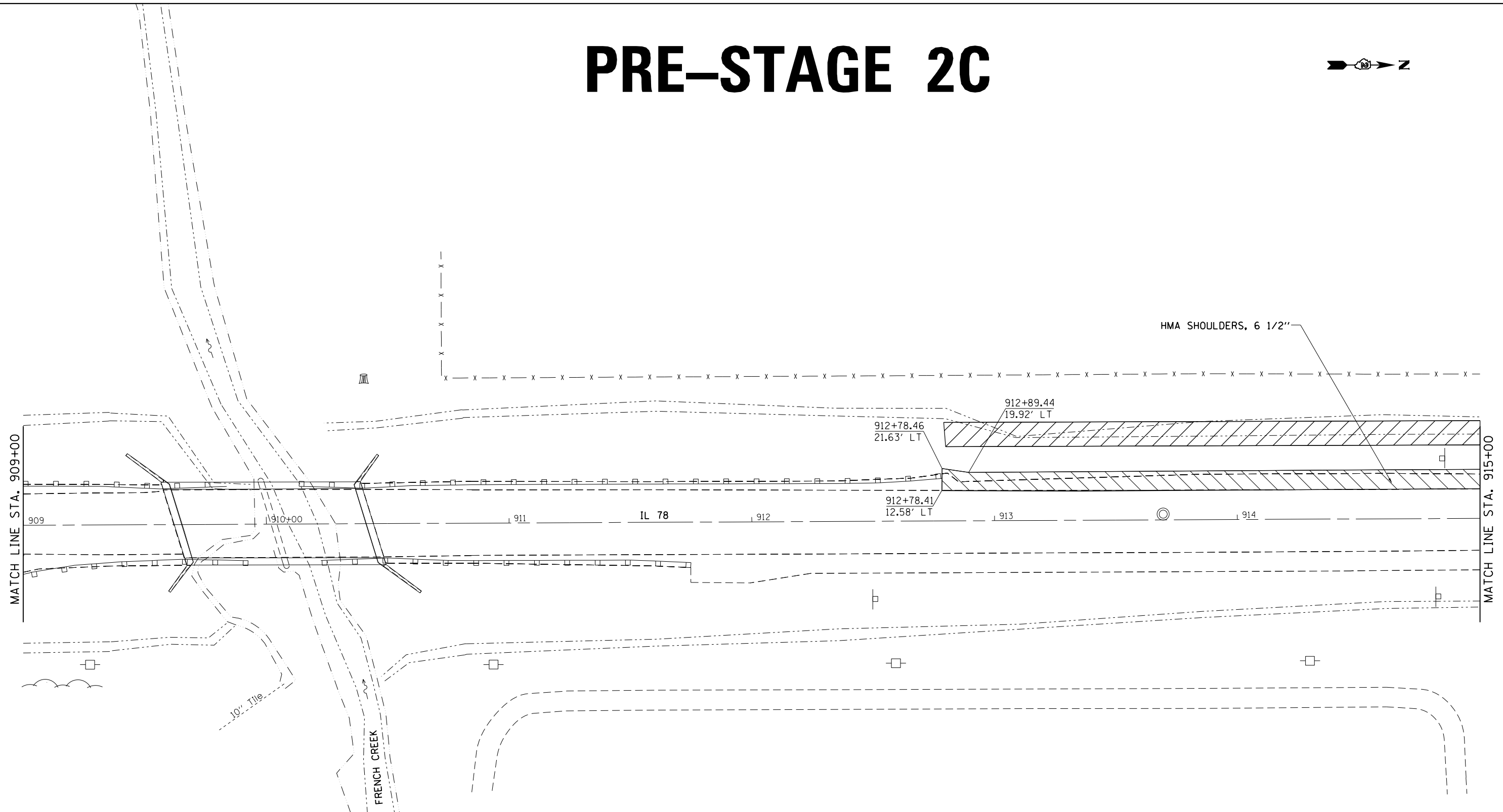
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IL 78 STAGING DETAILS</b>		
<b>PRE-STAGE 2C</b>		
SCALE: 20' / IN.	SHEET NO. 5 OF 14 SHEETS	STA. 903+00 TO STA. 909+00

* IL 78	F.A.P. RTE. #22	SECTION 15BR-1	COUNTY WHITESIDE	TOTAL SHEETS 146	SHEET NO. 44
				CONTRACT NO. 64F19	
				ILLINOIS FED. AID PROJECT	



# PRE-STAGE 2C



## PRE-STAGE 2C NOTES

1. BUILD PAVEMENT WIDENING AND HMA SHOULDERS 6 1/2" FROM LT STA. 99+02.24 (FCR) TO LT STA. 908+29.85 AND FROM LT STA. 912+78.41 TO LT STA. 917+34.58 USING HIGHWAY STANDARDS 701201 & 701326.
2. FOUR FLAGGERS WILL BE REQUIRED FOR THIS WORK.
  - A) ONE FLAGGER WEST OF WORK ON M.I.T. ENTRANCE.
  - B) TWO FLAGGERS ON IL 78.
  - C) ONE FLAGGER AT FRENCH CREEK ROAD.

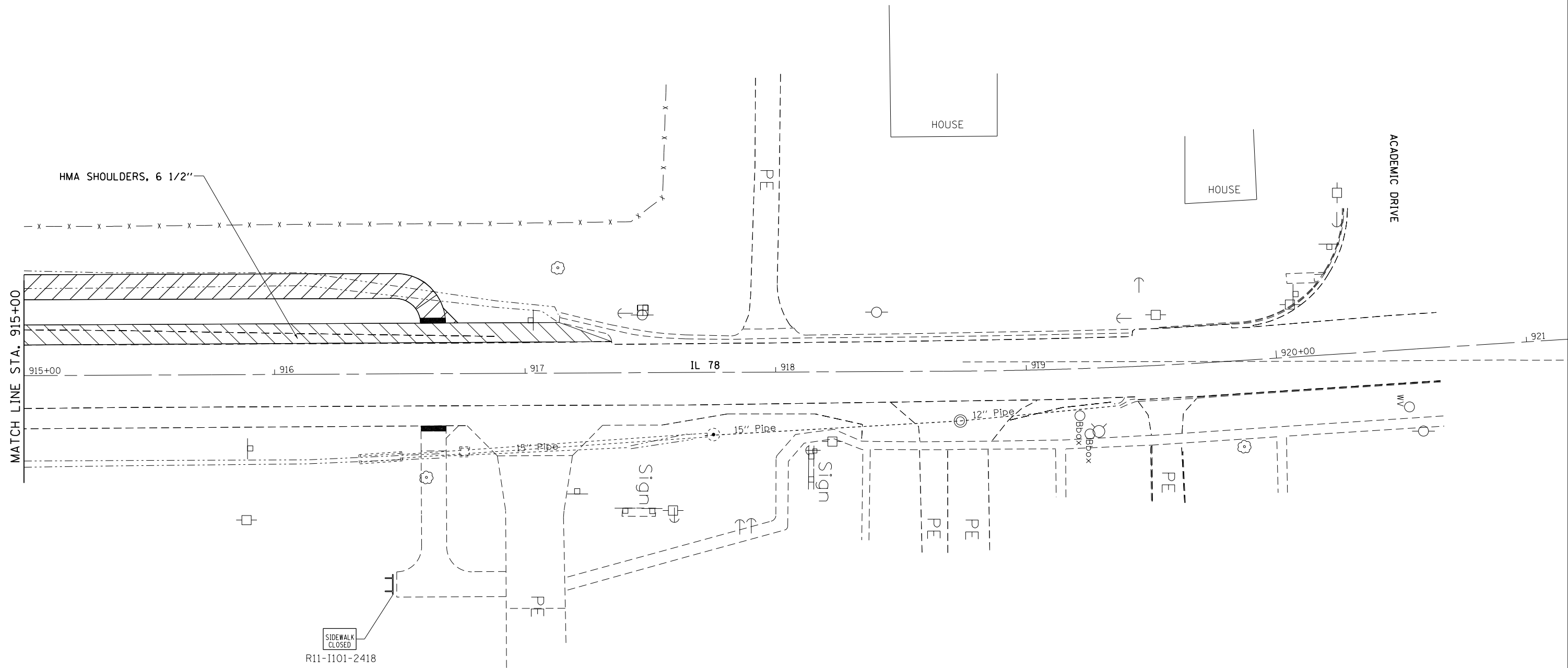
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IL 78 STAGING DETAILS</b>		
<b>PRE-STAGE 2C</b>		
SCALE: 20' / IN.	SHEET NO. 6 OF 14 SHEETS	STA. 909+00 TO STA. 915+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*22	15BR-1	WHITESIDE	146	45
CONTRACT NO. 64E19			ILLINOIS FED. AID PROJECT	

# PRE-STAGE 2C



## PRE-STAGE 2C NOTES

1. BUILD PAVEMENT WIDENING AND HMA SHOULDERS 6 1/2" FROM LT STA. 99+02.24 (FCR) TO LT STA. 908+29.85 AND FROM LT STA. 912+78.41 TO LT STA. 917+34.58 USING HIGHWAY STANDARDS 701201 & 701326.
2. FOUR FLAGGERS WILL BE REQUIRED FOR THIS WORK.
  - A) ONE FLAGGER WEST OF WORK ON M.I.T. ENTRANCE.
  - B) TWO FLAGGERS ON IL 78.
  - C) ONE FLAGGER AT FRENCH CREEK ROAD.
3. USE HIGHWAY STANDARD 701801 WHERE APPLICABLE.

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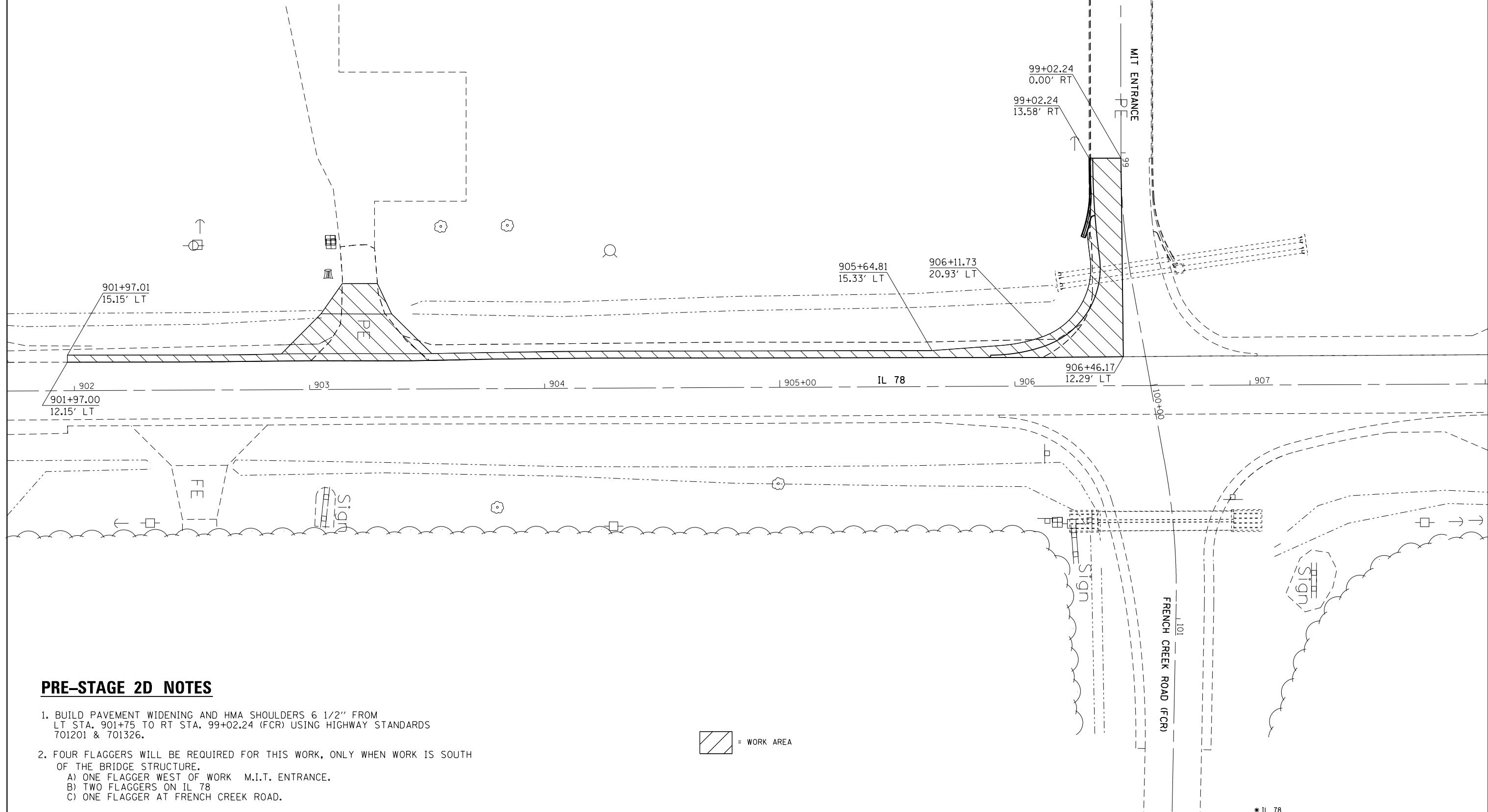
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IL 78 STAGING DETAILS</b>		
<b>PRE-STAGE 2C</b>		
SCALE: 20' / IN.	SHEET NO. 7 OF 14 SHEETS	STA. 915+00 TO STA. 921+00

\* IL 78

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#22	15BR-1	WHITESIDE	146	46
CONTRACT NO. 64F19			ILLINOIS FED. AID PROJECT	

# PRE-STAGE 2D



## PRE-STAGE 2D NOTES

1. BUILD PAVEMENT WIDENING AND HMA SHOULDERS 6 1/2" FROM LT STA. 901+75 TO RT STA. 99+02.24 (FCR) USING HIGHWAY STANDARDS 701201 & 701326.
2. FOUR FLAGGERS WILL BE REQUIRED FOR THIS WORK, ONLY WHEN WORK IS SOUTH OF THE BRIDGE STRUCTURE.
  - A) ONE FLAGGER WEST OF WORK M.I.T. ENTRANCE.
  - B) TWO FLAGGERS ON IL 78
  - C) ONE FLAGGER AT FRENCH CREEK ROAD.

= WORK AREA

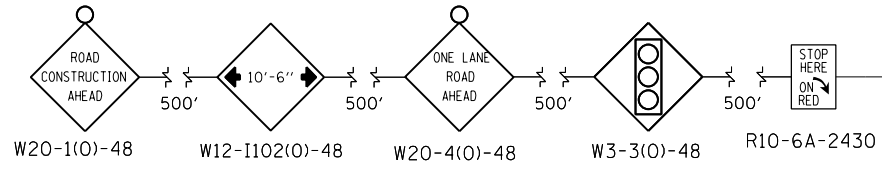
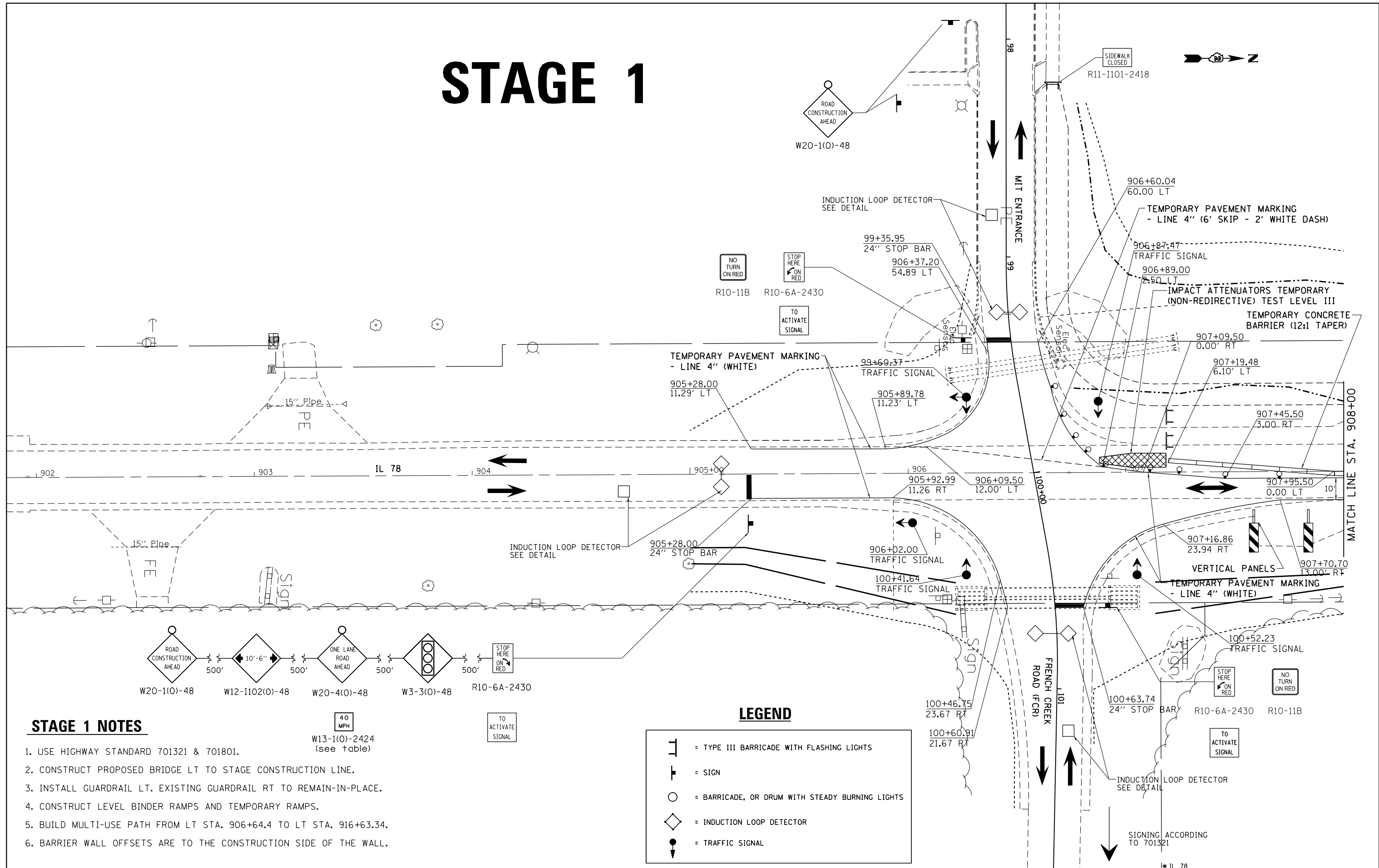
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IL 78 STAGING DETAILS</b>		
<b>PRE-STAGE 2D</b>		
SCALE: 20' / IN.	SHEET NO. 8 OF 14 SHEETS	STA. 903+00 TO STA. 909+00

* IL 78	F.A.P. RTE. #22	SECTION 15BR-1	COUNTY WHITESIDE	TOTAL SHEETS 146	SHEET NO. 47
	CONTRACT NO. 64E19			ILLINOIS FED. AID PROJECT	

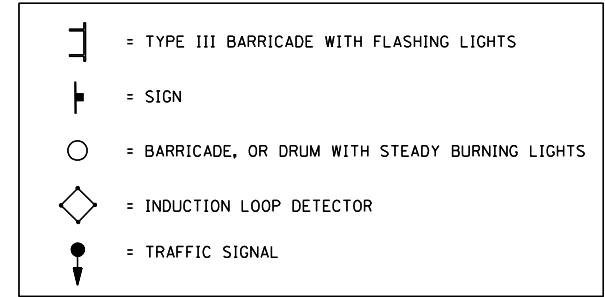
# STAGE 1



### STAGE 1 NOTES

1. USE HIGHWAY STANDARD 701321 & 701801.
2. CONSTRUCT PROPOSED BRIDGE LT TO STAGE CONSTRUCTION LINE.
3. INSTALL GUARDRAIL LT. EXISTING GUARDRAIL RT TO REMAIN-IN-PLACE.
4. CONSTRUCT LEVEL BINDER RAMPS AND TEMPORARY RAMPS.
5. BUILD MULTI-USE PATH FROM LT STA. 906+64.4 TO LT STA. 916+63.34.
6. BARRIER WALL OFFSETS ARE TO THE CONSTRUCTION SIDE OF THE WALL.

### LEGEND



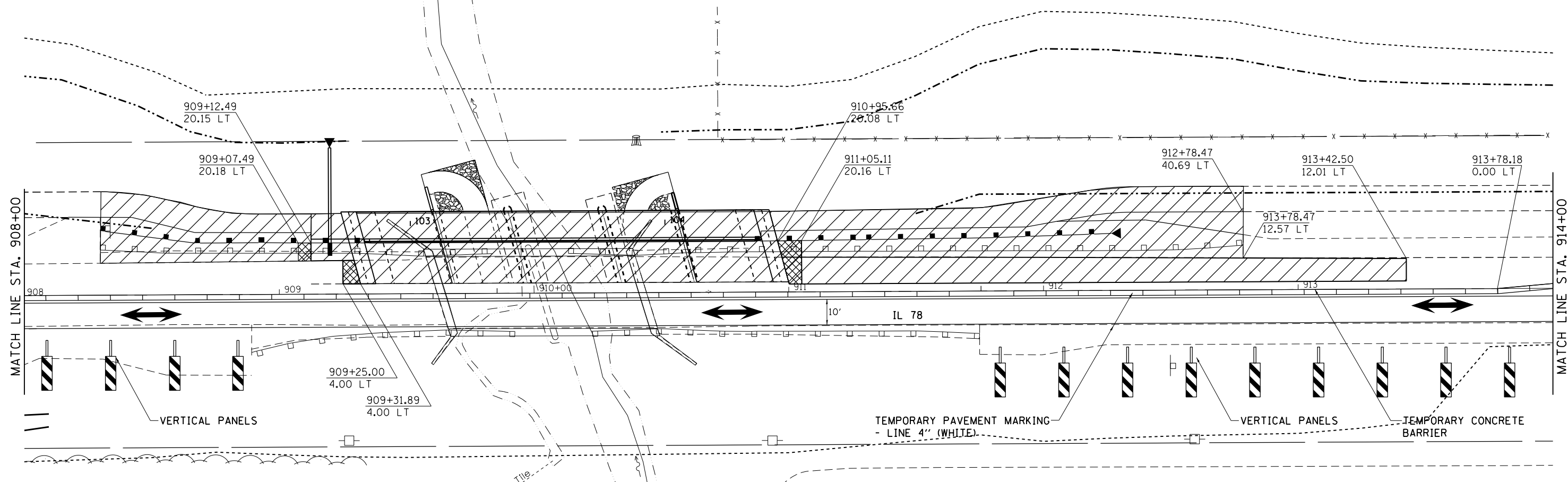
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 78 STAGING DETAILS	
STAGE 1	
SCALE: 20' / IN.	SHEET NO. 9 OF 14 SHEETS
STA. 902+00 TO STA. 908+00	

* IL 78	F.A.P. RTE. #22	SECTION 15BR-1	COUNTY WHITESIDE	TOTAL SHEETS 146	SHEET NO. 48
			CONTRACT NO. 64F19		
ILLINOIS FED. AID PROJECT					

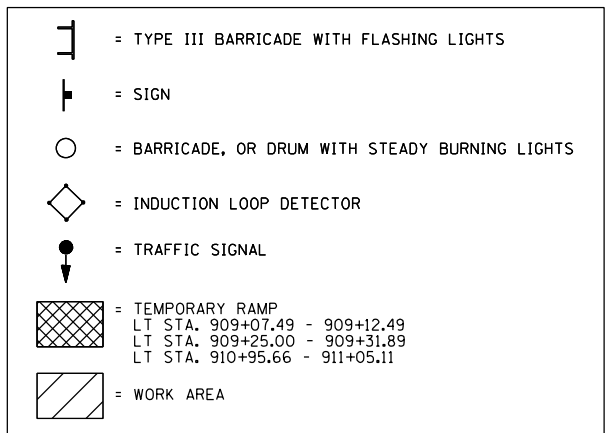
# STAGE 1



## STAGE 1 NOTES

1. USE HIGHWAY STANDARD 701321 & 701801.
2. CONSTRUCT PROPOSED BRIDGE LT TO STAGE CONSTRUCTION LINE.
3. INSTALL GUARDRAIL LT. EXISTING GUARDRAIL RT TO REMAIN-IN-PLACE.
4. CONSTRUCT LEVEL BINDER RAMPS AND TEMPORARY RAMPS.
5. BUILD MULTI-USE PATH FROM LT STA. 906+64.4 TO LT STA. 916+63.34.
6. BARRIER WALL OFFSETS ARE TO THE CONSTRUCTION SIDE OF THE WALL.

## LEGEND



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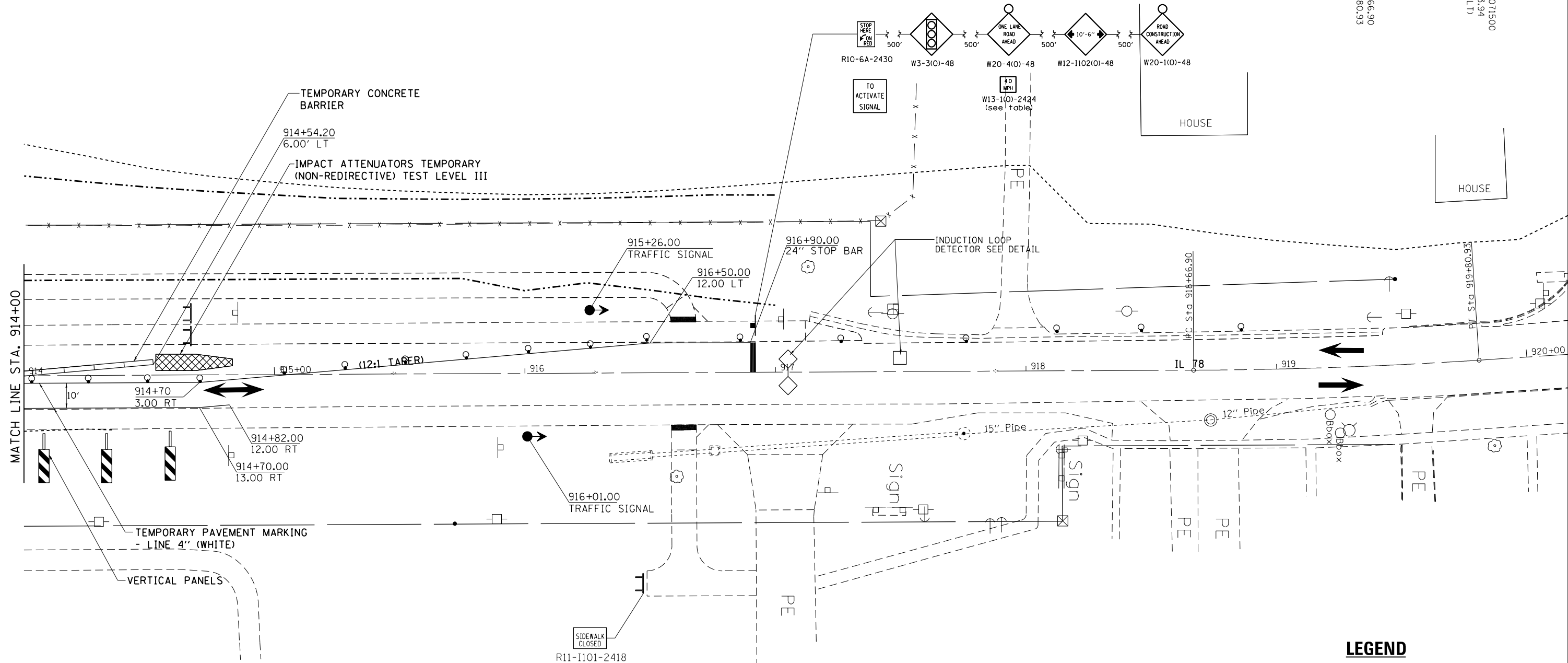
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 78 STAGING DETAILS  
STAGE 1  
SCALE: 20' / IN. SHEET NO. 10 OF 14 SHEETS STA. 908+00 TO STA. 914+00

* IL 78	F.A.P. RTE. #22	SECTION 15BR-1	COUNTY WHITESIDE	TOTAL SHEETS 146	SHEET NO. 49
	CONTRACT NO. 64F19			ILLINOIS FED. AID PROJECT	

# STAGE 1

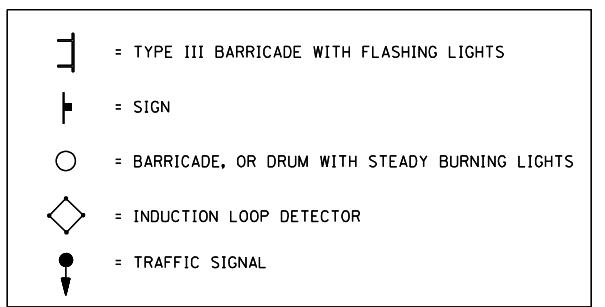
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 $D = 3^\circ 02' 48''$   
 $R = 1,880.59'$   
 $T = 57.03'$   
 $L = 114.03'$   
 $E = 0.86'$   
 T.R. = \_\_\_\_\_  
 S.E. RUN = \_\_\_\_\_  
 P.C. STA. = 918+66.90  
 P.T. STA. = 919+80.93



## STAGE 1 NOTES

1. USE HIGHWAY STANDARD 701321 & 701801.
2. CONSTRUCT PROPOSED BRIDGE LT TO STAGE CONSTRUCTION LINE.
3. INSTALL GUARDRAIL LT. EXISTING GUARDRAIL RT TO REMAIN-IN-PLACE.
4. CONSTRUCT LEVEL BINDER RAMPS AND TEMPORARY RAMPS.
5. BUILD MULTI-USE PATH FROM LT STA. 906+64.4 TO LT STA. 916+63.34.
6. BARRIER WALL OFFSETS ARE TO THE CONSTRUCTION SIDE OF THE WALL.

## LEGEND



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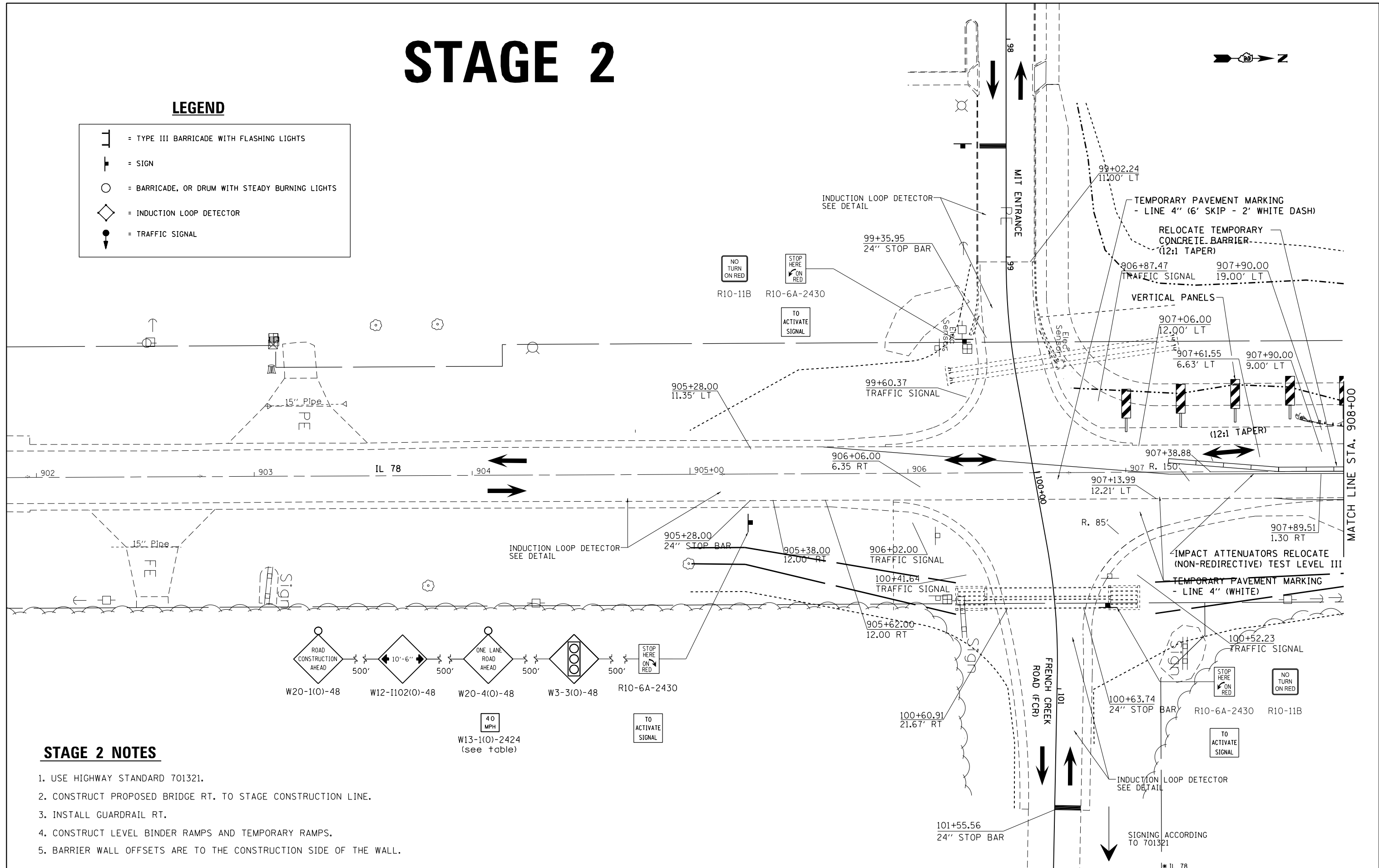
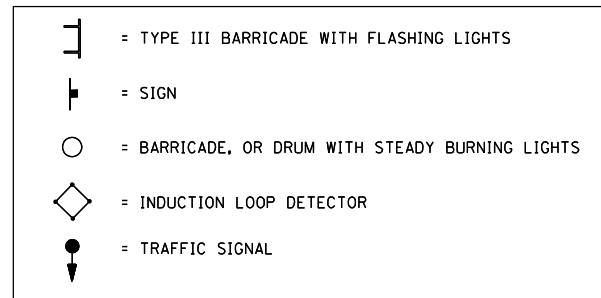
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 78 STAGING DETAILS		
STAGE 1		
SCALE: 20' / IN.	SHEET NO. 11 OF 14 SHEETS	STA. 914+00 TO STA. 920+00

* IL 78	F.A.P. RTE. #22	SECTION 15BR-1	COUNTY WHITESIDE	TOTAL SHEETS 146	SHEET NO. 50
				CONTRACT NO. 64F19	
ILLINOIS FED. AID PROJECT					

# STAGE 2

## LEGEND



## STAGE 2 NOTES

1. USE HIGHWAY STANDARD 701321.
2. CONSTRUCT PROPOSED BRIDGE RT. TO STAGE CONSTRUCTION LINE.
3. INSTALL GUARDRAIL RT.
4. CONSTRUCT LEVEL BINDER RAMPS AND TEMPORARY RAMPS.
5. BARRIER WALL OFFSETS ARE TO THE CONSTRUCTION SIDE OF THE WALL.

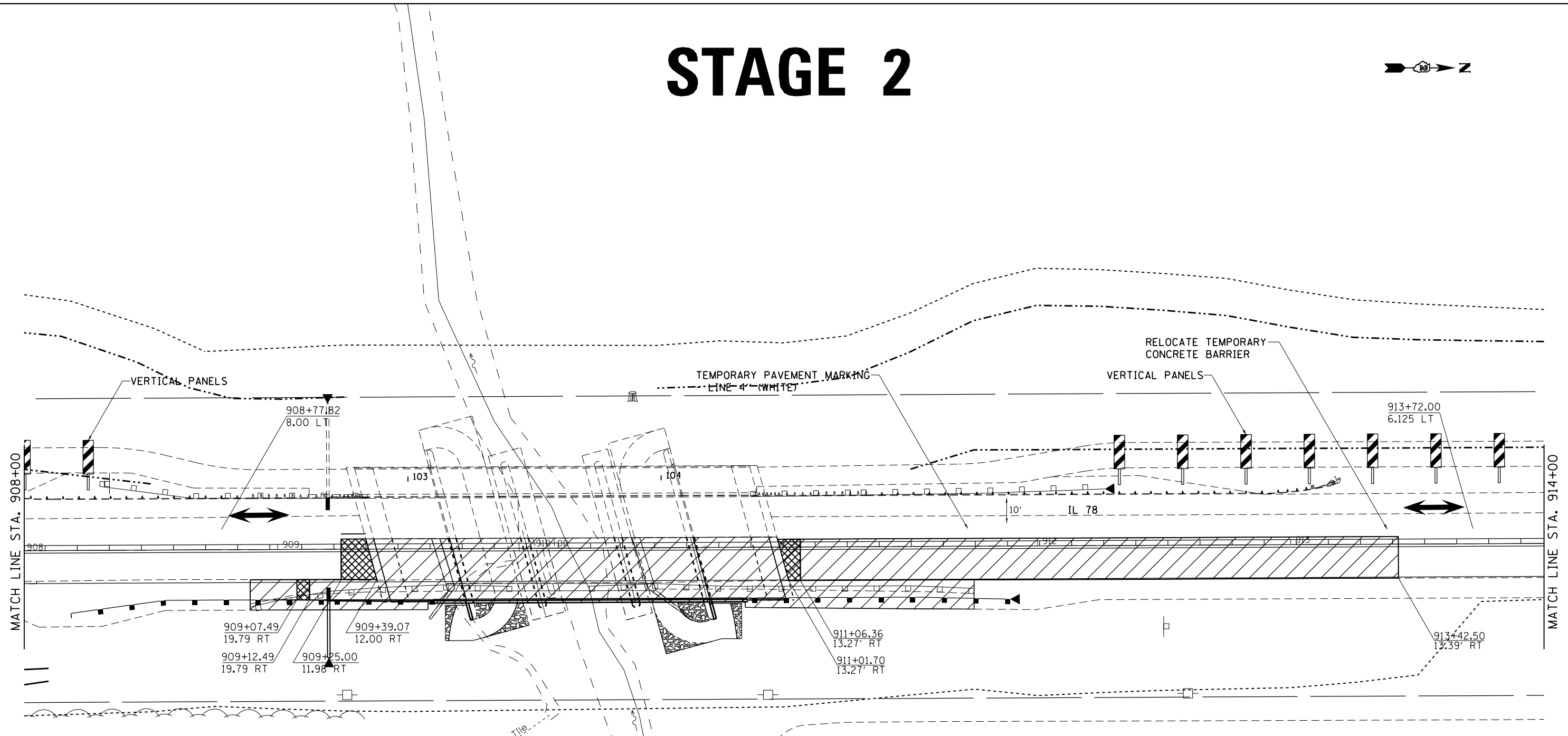
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PLOT DATE = Fri Jun 13 10:38:17 2014		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 78 STAGING DETAILS		
STAGE 2		
SCALE: 20' / IN.	SHEET NO. 12 OF 14 SHEETS	STA. 902+00 TO STA. 908+00

* IL 78	F.A.P. RTE. #22	SECTION 15BR-1	COUNTY WHITESIDE	TOTAL SHEETS 146	SHEET NO. 51
				CONTRACT NO. 64F19	
ILLINOIS FED. AID PROJECT					

# STAGE 2



## STAGE 2 NOTES

1. USE HIGHWAY STANDARD 701321.
2. CONSTRUCT PROPOSED BRIDGE RT. TO STAGE CONSTRUCTION LINE.
3. INSTALL GUARDRAIL RT.
4. CONSTRUCT LEVEL BINDER RAMPS AND TEMPORARY RAMPS.
5. BARRIER WALL OFFSETS ARE TO THE CONSTRUCTION SIDE OF THE WALL.

## LEGEND

	= TYPE III BARRICADE WITH FLASHING LIGHTS
	= SIGN
	= BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
	= INDUCTION LOOP DETECTOR
	= TRAFFIC SIGNAL
	TEMPORARY RAMP RT STA. 909+07.49 - 909+12.49 RT STA. 909+25.00 - 909+39.07 RT STA. 911+01.36 - 911+06.36
	= WORK AREA

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PLOT DATE = Fri Jun 13 10:38:34 2014		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 78 STAGING DETAILS  
STAGE 2

SCALE: 20' / IN. SHEET NO. 13 OF 14 SHEETS STA. 908+00 TO STA. 914+00

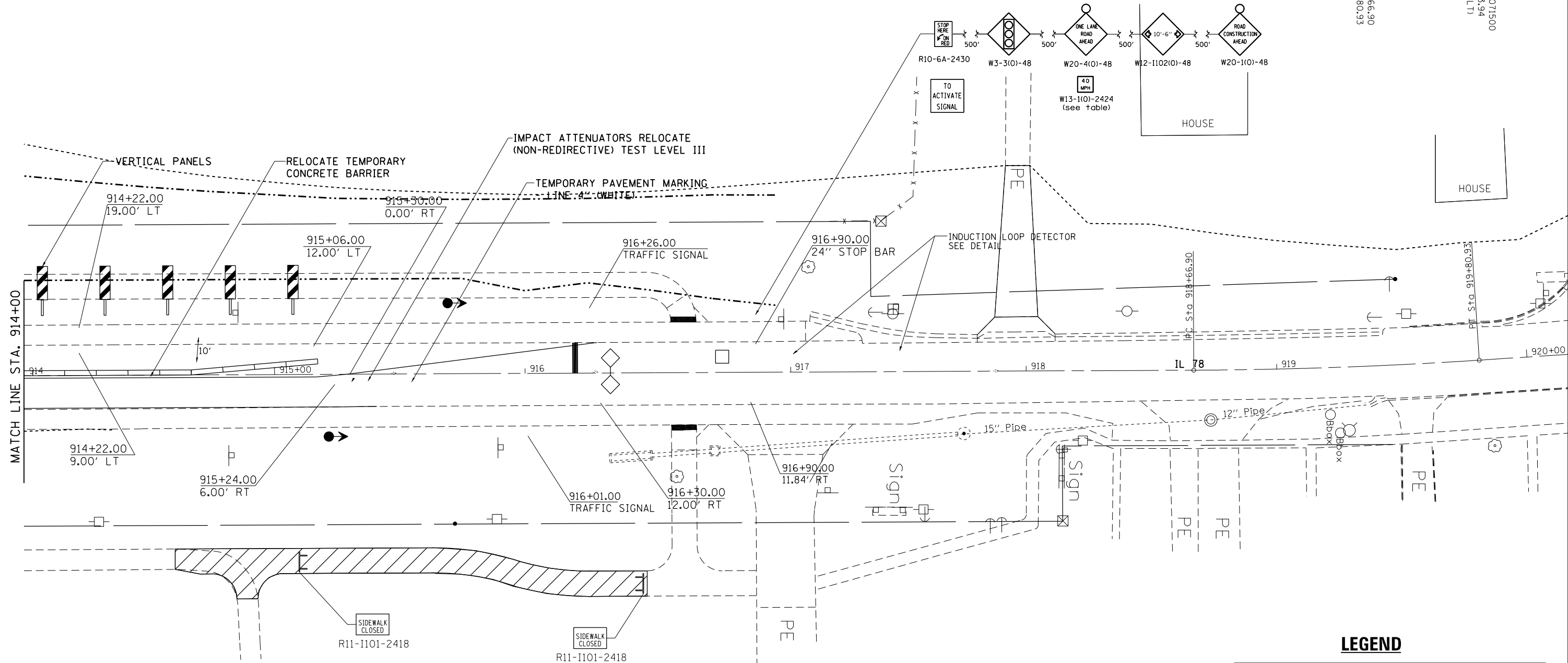
\* IL 78

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*22	15BR-1	WHITESIDE	146	52
CONTRACT NO. 64E19			ILLINOIS FED. AID PROJECT	



# STAGE 2

EXIST. CURVE A1071500  
 P.I. STA. = 919+23.94  
 $\Delta = 3^\circ 28' 27''$  (LT)  
 $D = 3^\circ 02' 48''$   
 $R = 1,880.59'$   
 $T = 57.03'$   
 $L = 114.03'$   
 $e = 0.86'$   
 S.E. RUN = \_\_\_\_\_  
 P.C. STA. = 918+66.90  
 P.T. STA. = 919+80.93



## STAGE 2 NOTES

1. USE HIGHWAY STANDARD 701321 & 701801
2. CONSTRUCT PROPOSED BRIDGE RT. TO STAGE CONSTRUCTION LINE.
3. INSTALL GUARDRAIL RT.
4. CONSTRUCT LEVEL BINDER RAMPS AND TEMPORARY RAMPS.
5. BARRIER WALL OFFSETS ARE TO THE CONSTRUCTION SIDE OF THE WALL.

## LEGEND

	= TYPE III BARRICADE WITH FLASHING LIGHTS
	= SIGN
	= BARRICADE, OR DRUM WITH STEADY BURNING LIGHTS
	= INDUCTION LOOP DETECTOR
	= TRAFFIC SIGNAL

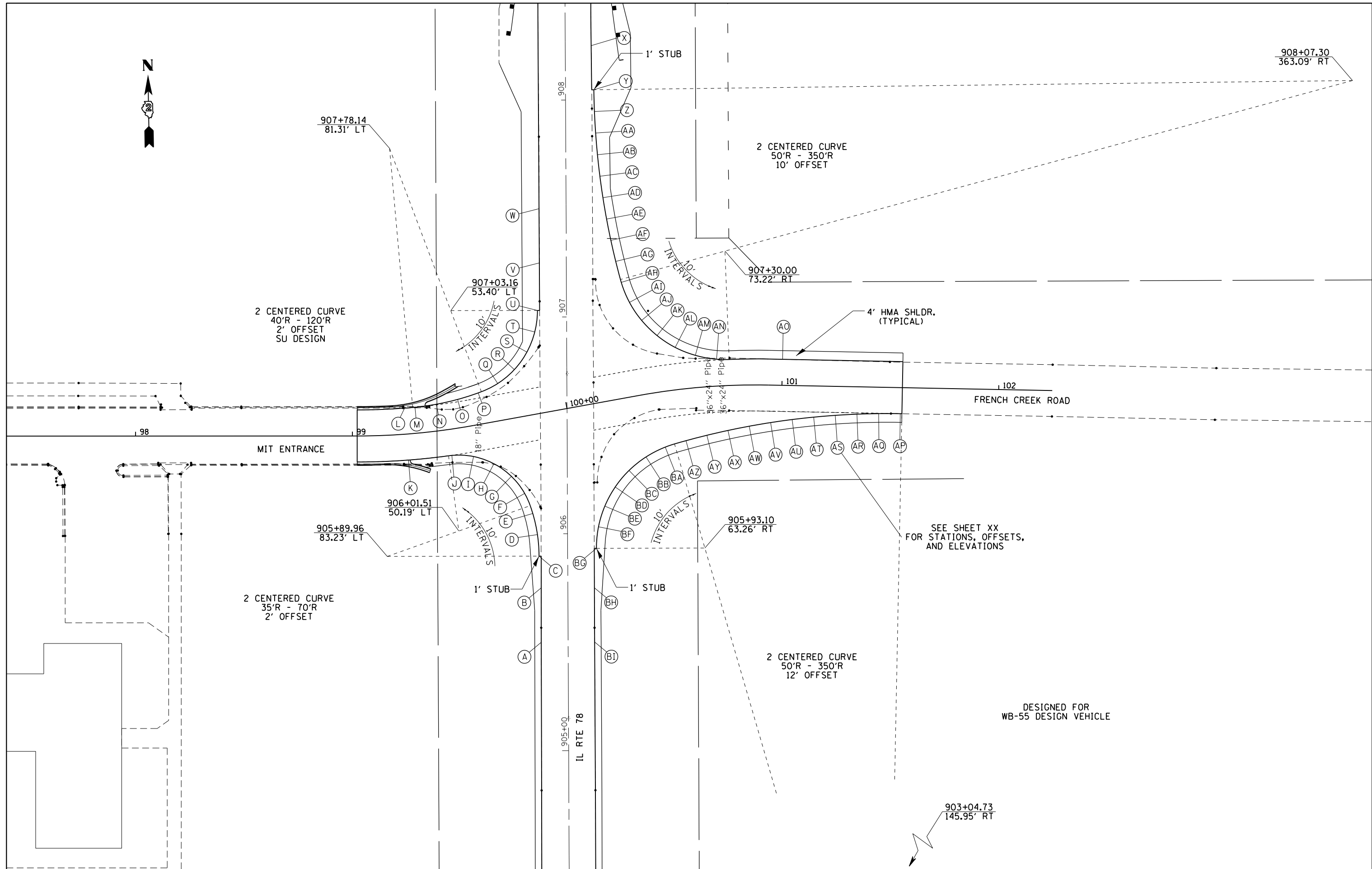
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	PLOT DATE = Fri Jun 13 11:18:29 2014	DATE -	REVISD -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 78 STAGING DETAILS		
STAGE 2		
SCALE: 20' / IN.	SHEET NO. 14 OF 14 SHEETS	STA. 914+00 TO STA. 920+00

\* IL 78

F.A.P. RTE. #22	SECTION 15BR-1	COUNTY WHITESIDE	TOTAL SHEETS 146	SHEET NO. 53
CONTRACT NO. 64F19			ILLINOIS FED. AID PROJECT	



SEE SHEET XX  
FOR STATIONS, OFFSETS,  
AND ELEVATIONS

DESIGNED FOR  
WB-55 DESIGN VEHICLE

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PLOT DATE = Fri Jun 13 10:43:34 2014		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

PAVEMENT ELEVATION DETAILS	
<b>PROPOSED FRENCH CREEK ROAD AND MIT ENTRANCE</b>	
SCALE: 1"=20'	SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	15BR-1	WHITESIDE	146	54
CONTRACT NO. 64F19				
ILLINOIS FED. AID PROJECT				

	STATION IL 78	OFFSET IL 78	PROPOSED EDGE OF PAVEMENT ELEVATION
A	905+50.00	12.00' LT	624.42
B	905+75.00	12.00' LT	624.47
C	905+89.71	13.23' LT	624.49
D	905+99.68	13.91' LT	624.50
E	906+09.45	16.00' LT	624.49
F	906+18.71	19.71' LT	624.46
G	906+26.60	25.80' LT	624.41
	STATION PROPOSED MIT ENTRANCE	OFFSET PROPOSED MIT ENTRANCE	PROPOSED EDGE OF PAVEMENT ELEVATION
H	99+62.26	19.02' RT	624.23
I	99+53.71	14.10' RT	624.26
J	99+44.36	12.04' RT	624.27
K	99+25.00	12.00' RT	624.27
L	99+25.00	12.00' LT	624.27
M	99+30.04	12.00' LT	624.27
N	99+40.45	12.30' LT	624.26
O	99+50.86	13.08' LT	624.27
P	99+61.00	14.39' LT	624.29
Q	99+70.61	17.05' LT	624.38
R	99+79.28	21.98' LT	624.49
	STATION IL 78	OFFSET IL 78	PROPOSED EDGE OF PAVEMENT ELEVATION
S	906+83.86	18.36' LT	624.84
T	906+93.13	14.67' LT	625.01
U	907+03.02	13.40' LT	625.11
V	907+25.00	12.00' LT	625.33
W	907+50.00	12.00' LT	625.56
X	908+25.00	12.00' RT	626.19
Y	908+04.70	13.10' RT	626.01
Z	907+94.70	13.31' RT	625.92
AA	907+84.71	13.82' RT	625.83
AB	907+74.74	14.60' RT	625.73
AC	907+64.80	15.68' RT	625.62
AD	907+54.89	17.03' RT	625.49

	STATION IL 78	OFFSET IL 78	PROPOSED EDGE OF PAVEMENT ELEVATION
AE	907+45.03	18.67' RT	625.37
AF	907+35.22	20.59' RT	625.24
AG	907+25.46	22.79' RT	625.09
AH	907+15.78	25.28' RT	624.94
AI	907+06.54	29.06' RT	624.76
AJ	906+98.23	34.60' RT	624.59
	STATION PROPOSED FRENCH CREEK RD	OFFSET PROPOSED FRENCH CREEK RD	PROPOSED EDGE OF PAVEMENT ELEVATION
AK	100+45.84	25.96' LT	624.32
AL	100+52.91	19.48' LT	624.19
AM	100+61.28	14.87' LT	624.06
AN	100+70.53	12.39' LT	624.03
AO	101+00.00	12.00' LT	623.86
AP	101+54.82	12.00' RT	623.68
AQ	101+44.82	12.16' RT	623.71
AR	101+34.83	12.61' RT	623.72
AS	101+24.86	13.35' RT	623.73
AT	101+14.91	14.37' RT	623.75
AU	101+04.99	15.67' RT	623.77
AV	100+95.12	17.26' RT	623.78
AW	100+84.73	19.00' RT	623.82
AX	100+74.17	20.68' RT	623.86
AY	100+63.54	22.30' RT	623.90
AZ	100+52.85	23.64' RT	623.97
BA	100+42.10	25.49' RT	624.04
BB	100+31.86	28.48' RT	624.13
	STATION IL 78	OFFSET IL 78	PROPOSED EDGE OF PAVEMENT ELEVATION
BC	906+29.04	28.49' RT	624.39
BD	906+21.41	22.04' RT	624.42
BE	906+12.66	17.24' RT	624.48
BF	906+03.13	14.27' RT	624.50
BG	905+93.20	13.26' RT	624.49
BH	905+75.00	12.00' RT	624.47
BI	905+50.00	12.00' RT	624.42

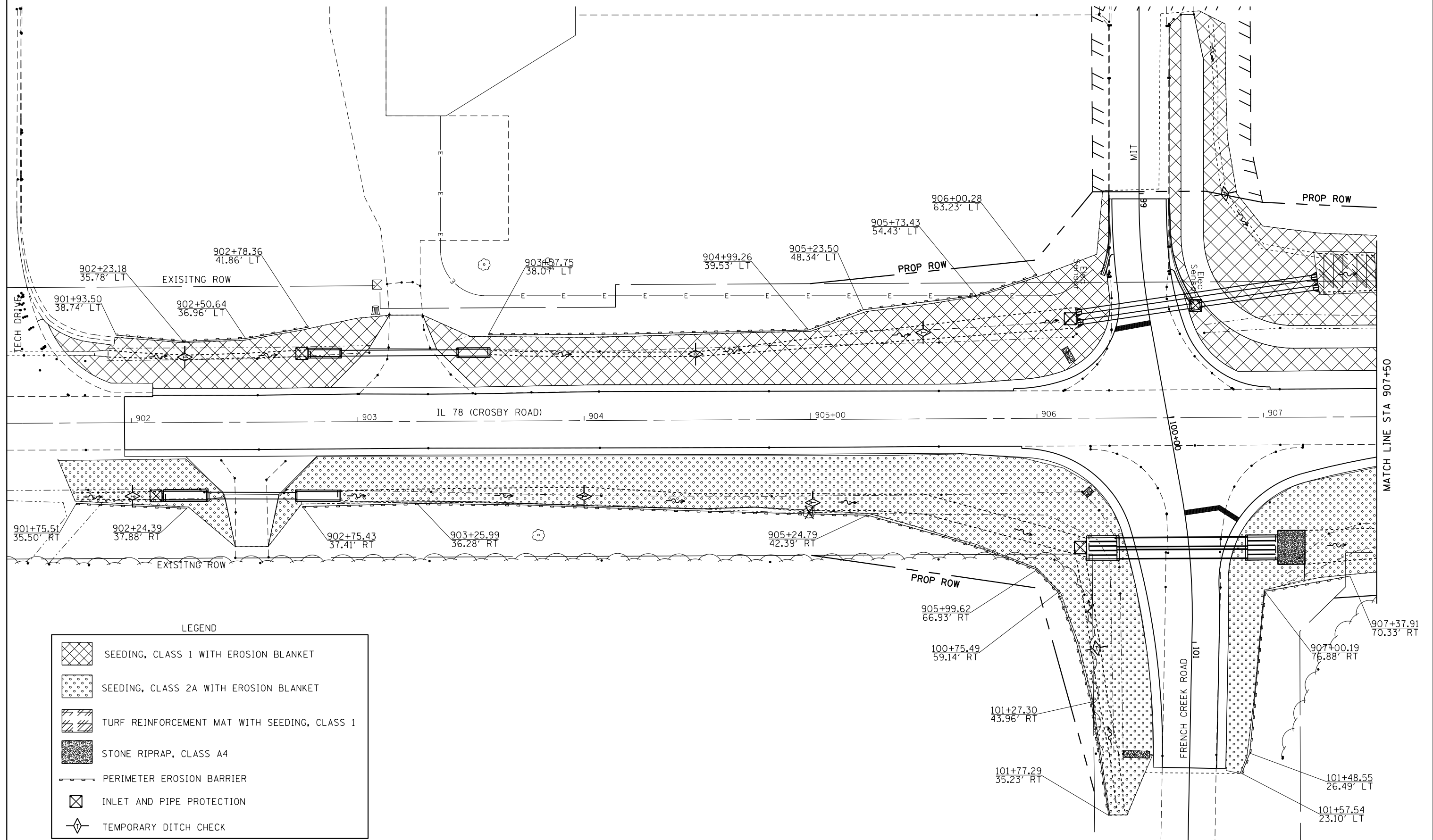
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		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

PAVEMENT ELEVATION DETAILS	
PROPOSED FRENCH CREEK ROAD AND MIT ENTRANCE	
SCALE: 1"=20'	SHEET NO. ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	15BR-1	WHITESIDE	146	55
CONTRACT NO. 64F19				
ILLINOIS FED. AID PROJECT				

# EROSION CONTROL AND SEEDING DETAILS



### LEGEND

	SEEDING, CLASS 1 WITH EROSION BLANKET
	SEEDING, CLASS 2A WITH EROSION BLANKET
	TURF REINFORCEMENT MAT WITH SEEDING, CLASS 1
	STONE RIPRAP, CLASS A4
	PERIMETER EROSION BARRIER
	INLET AND PIPE PROTECTION
	TEMPORARY DITCH CHECK

FILE NAME =	USER NAME = Fasslermj	DESIGNED -	REVISED -
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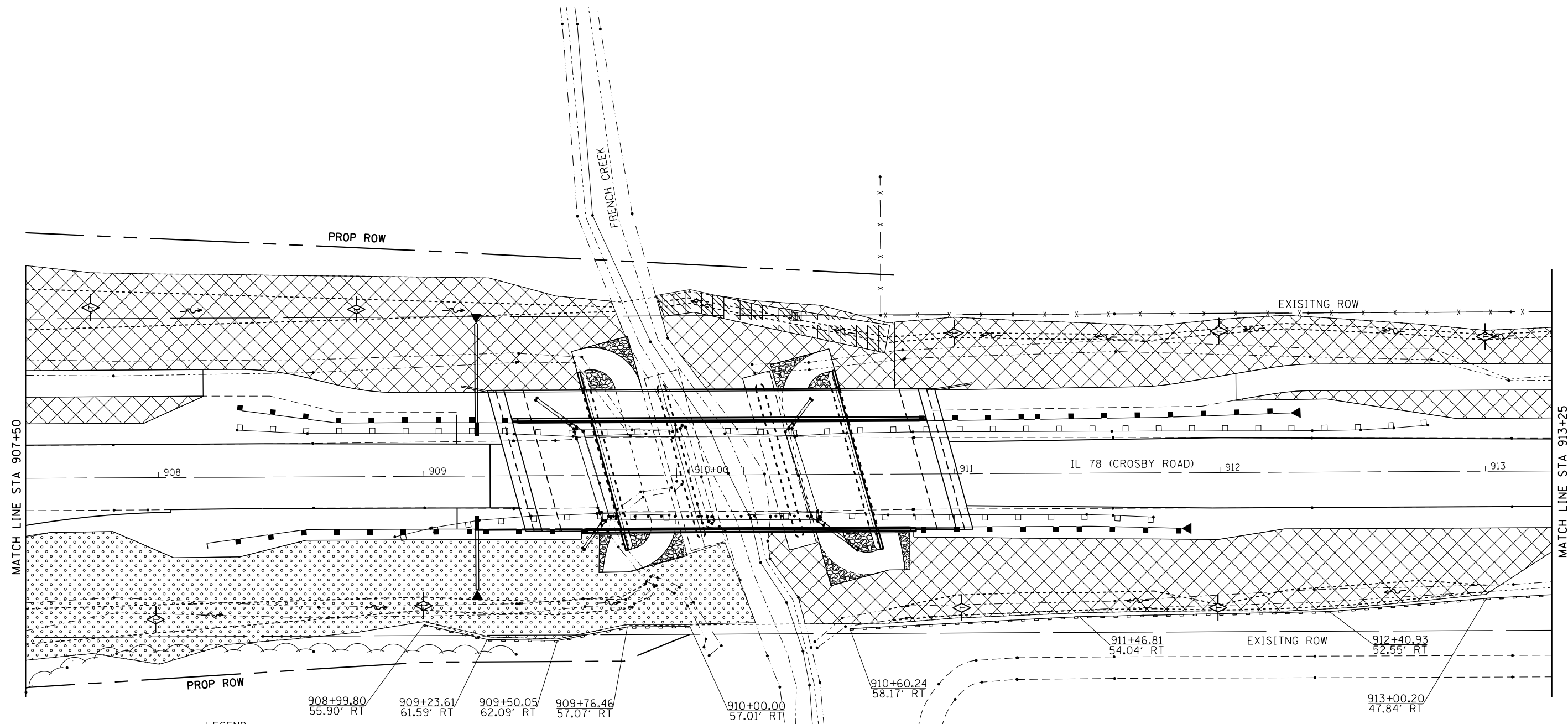
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL AND  
SEEDING DETAILS**

SCALE: 1"=20'    SHEET \_\_\_ OF \_\_\_ SHEETS    STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	15BR-1	WHITESIDE	146	56
CONTRACT NO. 64F19				
ILLINOIS FED. AID PROJECT				

# EROSION CONTROL AND SEEDING DETAILS



LEGEND

	SEEDING, CLASS 1 WITH EROSION BLANKET
	SEEDING, CLASS 2A WITH EROSION BLANKET
	TURF REINFORCEMENT MAT WITH SEEDING, CLASS 1
	STONE RIPRAP, CLASS A4
	PERIMETER EROSION BARRIER
	INLET AND PIPE PROTECTION
	TEMPORARY DITCH CHECK

FILE NAME =	USER NAME = Fasslermj	DESIGNED - _____	REVISED - _____
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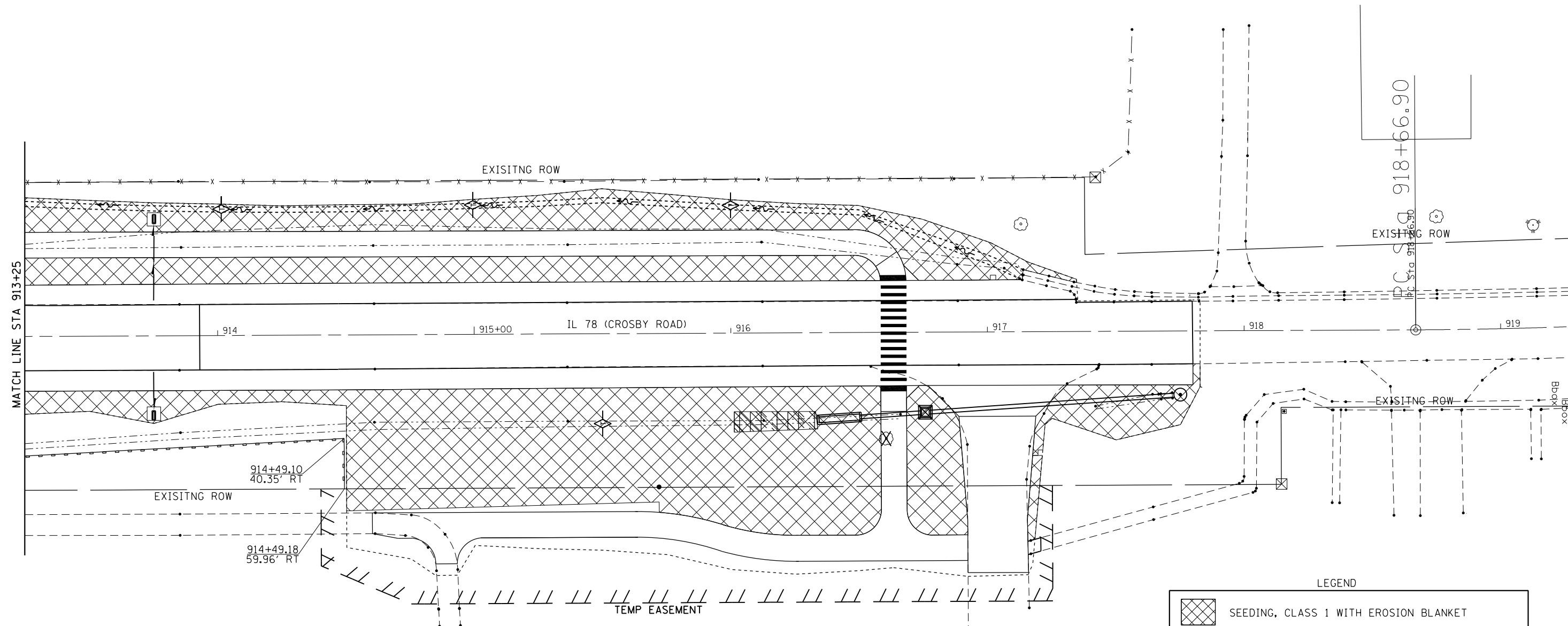
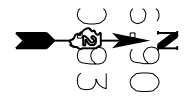
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL AND  
SEEDING DETAILS

SCALE: 1"=20' SHEET \_\_\_\_ OF \_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	15BR-1	WHITESIDE	146	57
CONTRACT NO. 64F19				
ILLINOIS FED. AID PROJECT				

# EROSION CONTROL AND SEEDING DETAILS



### LEGEND

	SEEDING, CLASS 1 WITH EROSION BLANKET
	SEEDING, CLASS 2A WITH EROSION BLANKET
	TURF REINFORCEMENT MAT WITH SEEDING, CLASS 1
	STONE RIPRAP, CLASS A4
	PERIMETER EROSION BARRIER
	INLET AND PIPE PROTECTION
	TEMPORARY DITCH CHECK

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL AND  
SEEDING DETAILS**

SCALE: 1"=20'    SHEET \_\_\_\_ OF \_\_\_\_ SHEETS    STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE. 22	SECTION 15BR-1	COUNTY WHITESIDE	TOTAL SHEETS 146	SHEET NO. 58
CONTRACT NO. 64F19				
ILLINOIS FED. AID PROJECT				

Bench Marks: Chiseled box in northwest corner of existing structure - Elevation 627.42.  
Chiseled box in southeast corner of existing structure - Elevation 627.42.

Existing Structure: S.N. 098-001 was built in 1953 as S.B.I. Route 3 over French Creek. It has a reinforced concrete deck girder superstructure (arched T-beam) with full-height abutments and a single reinforced concrete wall pier. The substructure units are all skewed at 17 degrees right ahead and founded on untreated timber piles. The structure is to be removed 1' below proposed grade. The back-to-back abutment length is 82'-4" and the out-to-out width is 34'-4". One lane of two-way traffic will be maintained utilizing stage construction. No salvage.

STATION 910+17  
BUILT 2011 BY  
STATE OF ILLINOIS  
F.A.P. RT. 22 SEC 15BR-1  
LOADING HL-93  
STR. NO. 098-0118

NAME PLATE  
See Std. 515001

**LOADING HL-93**  
Allow 50#/sq. ft. for future wearing surface.

**DESIGN SPECIFICATIONS**  
2010 AASHTO LRFD Bridge Design Specifications  
5th Edition with 2010 Interims

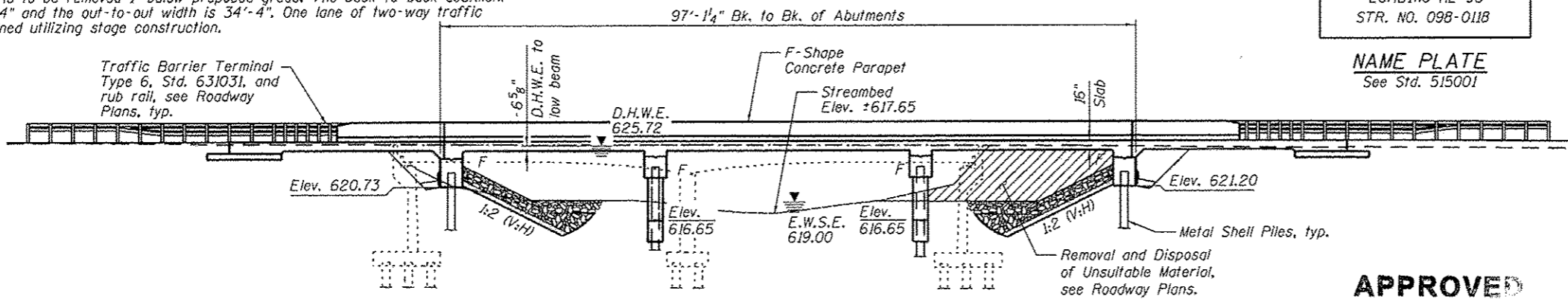
**DESIGN STRESSES**  
**FIELD UNITS**  
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)

**SEISMIC DATA**  
Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. (S<sub>D1</sub>) = 0.14g  
Design Spectral Acceleration at 0.2 sec. (S<sub>D5</sub>) = 0.23g  
Soil Site Class = E

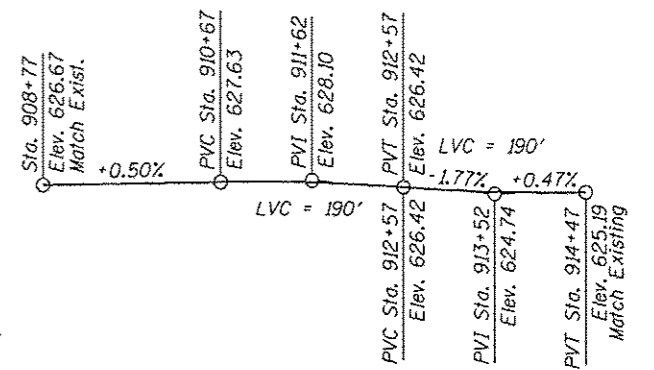
**DESIGN SCOUR ELEVATION TABLE**

Design Scour Elevation (ft.)	S. Abut.	Pier 1	Pier 2	N. Abut.
	620.73	608.27	607.25	621.20

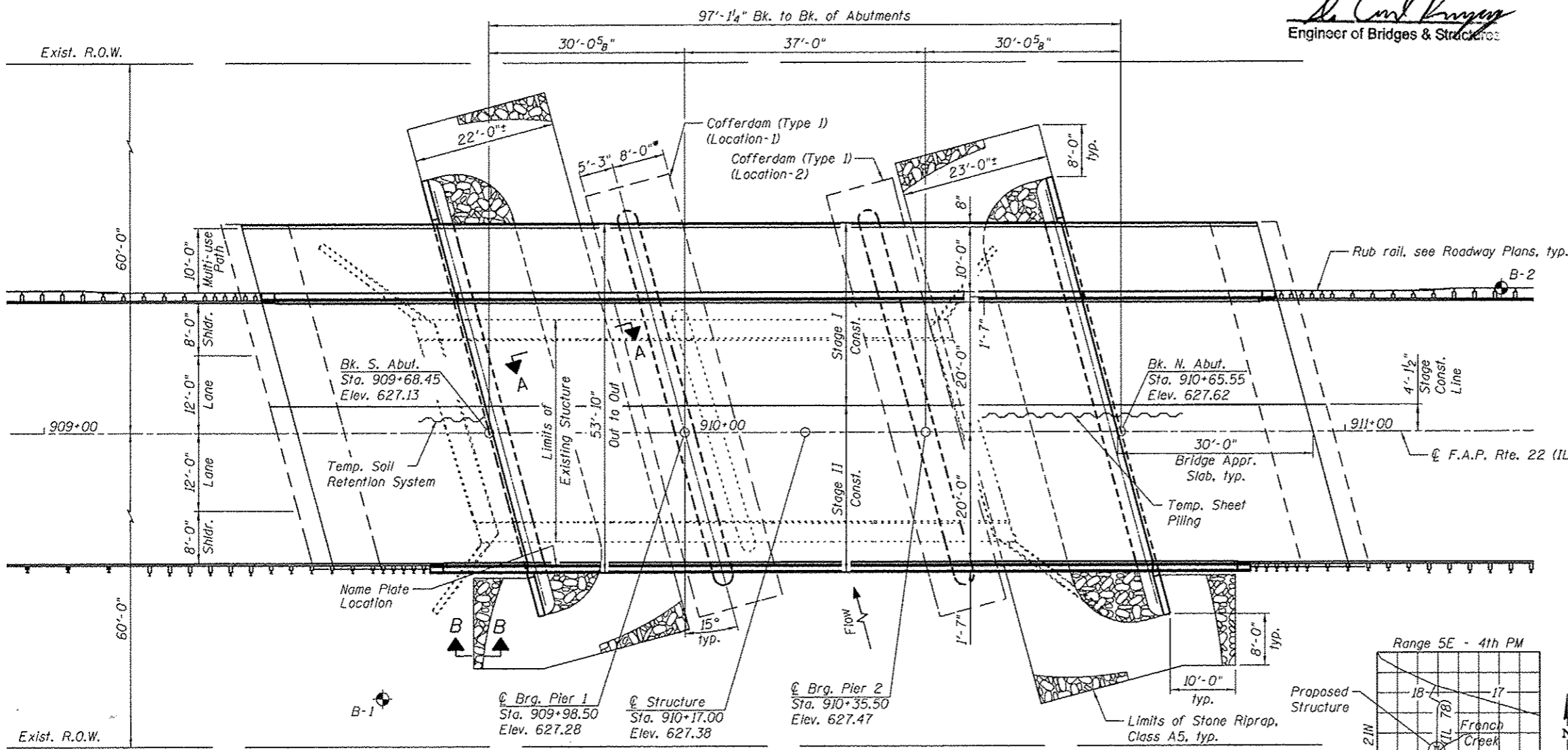
**APPROVED**  
For Structural Adequacy Only  
*De Carol Ruyter*  
Engineer of Bridges & Structures



**ELEVATION**



**PROFILE GRADE**  
(Along & F.A.P. 22)



**PLAN**

For Sections A-A and B-B, see sheet S-2

\* Cofferdam location as shown is outside the typical limits stated in the Special Provision in order to avoid conflict with existing pier wall and footing.

SEAL OF ILLINOIS  
KEVIN J. BREHM  
081-007103  
ST. LOUIS, MO.  
*Kevin J. Behm*  
6-3-2014  
EXPIRES: 11-30-2014

**GENERAL PLAN**  
**ILLINOIS ROUTE 78 OVER FRENCH CREEK**  
**F.A.P. RTE. 22 SECTION 15BR-1**  
**WHITESIDE COUNTY**  
**STA. 910+17**  
**STRUCTURE NO. 098-0118**

**LOCATION SKETCH**

COMPANY NAME: HR GREEN, INC.  
PROJECT CONTACT: KEVIN J. BREHM  
CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION  
DATE PLOTTED: 12/21/2014 2:56:01 PM  
FILE NAME: 0980118-64F19-001-05E.dgn  
PLOT DRIVER: PLOT24H  
PEN TABLE: J:\tools\hpf.tbl

HRGreen.com  
Illinois Professional Design Firm  
#184-001572

USER NAME :	DESIGNED - MGH	REVISED
PLOT SCALE :	CHECKED - KJB	REVISED
PLOT DATE :	DRAWN - WJH	REVISED
	CHECKED - KJB	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION  
STRUCTURE NO. 098-0118  
SHEET NO. S-1 OF S-23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	15BR-1	WHITESIDE	146	59

CONTRACT NO. 64F19  
ILLINOIS FED. AID PROJECT

**GENERAL NOTES**

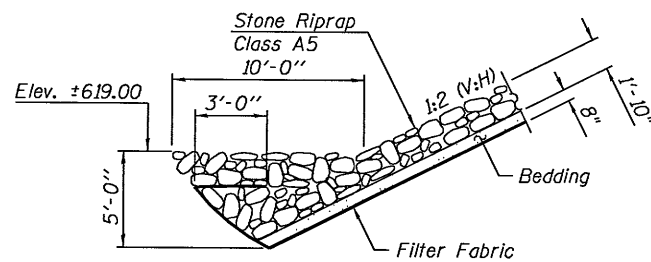
1. Reinforcement bars designated (E) shall be epoxy coated.
2. Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
3. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
4. The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.
5. Slipforming of the parapets is not allowed.

**TOTAL BILL OF MATERIAL**

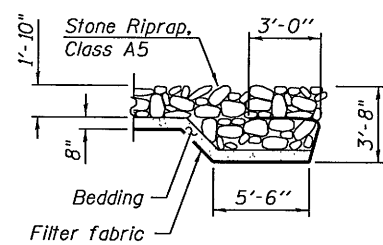
Item	Unit	Super	Sub	Total
Stone Riprap, Class A5	Sq. Yd.		410	410
Filter Fabric	Sq. Yd.		410	410
Removal of Existing Structures	Each	0.5	0.5	1
Structure Excavation	Cu. Yd.		235	235
Cofferdam Excavation	Cu. Yd.		180	180
Cofferdam (Type 1) (Location - 1)	Each		1	1
Cofferdam (Type 1) (Location - 2)	Each		1	1
Concrete Structures	Cu. Yd.		186.8	186.8
Concrete Superstructure	Cu. Yd.	462.8		462.8
Bridge Deck Grooving	Sq. Yd.	660		660
Concrete Encasement	Cu. Yd.		9.8	9.8
Protective Coat	Sq. Yd.	1050		1050
Reinforcement Bars, Epoxy Coated	Pound	105710	19490	125200
Bar Splicers	Each	396	60	456
Bicycle Railing	Foot	156		156
Parapet Railing	Foot	152		152
Furnishing Metal Shell Piles, 14" x 0.250"	Foot		1286	1286
Driving Piles	Foot		1286	1286
Test Pile Metal Shells	Each		4	4
Name Plates	Each	1		1
Geocomposite Wall Drain	Sq. Yd.		62	62
Granular Backfill for Structures	Cu. Yd.		122	122
Temporary Sheet Piling	Sq. Ft.		840	840
Temporary Soil Retention System	Sq. Ft.		55	55
Pipe Underdrains for Structures 4"	Foot		180	180

**INDEX OF SHEETS**

- S-1 General Plan and Elevation
- S-2 General Data
- S-3 Staging and Temporary Sheet Piling
- S-4 Temporary Concrete Barrier for Stage Construction
- S-5 Top of Slab Elevations
- S-6 Top of Slab Elevations
- S-7 Top of Approach Slab Elevations
- S-8 Superstructure Plan - Bottom Reinforcement
- S-9 Superstructure Plan - Top Reinforcement
- S-10 Superstructure Section
- S-11 Superstructure Bill of Material and Parapet Details
- S-12 Bridge Approach Slab Details
- S-13 Bridge Approach Slab Details
- S-14 Pedestrian Fencing and Railing on Barrier
- S-15 South Abutment Details
- S-16 North Abutment Details
- S-17 Pier No. 1 Details
- S-18 Pier No. 2 Details
- S-19 Pier Details
- S-20 Metal Shell Pile Details
- S-21 Bar Splicer Assembly
- S-22 Soil Boring Logs
- S-23 Soil Boring Logs



**SECTION A-A**

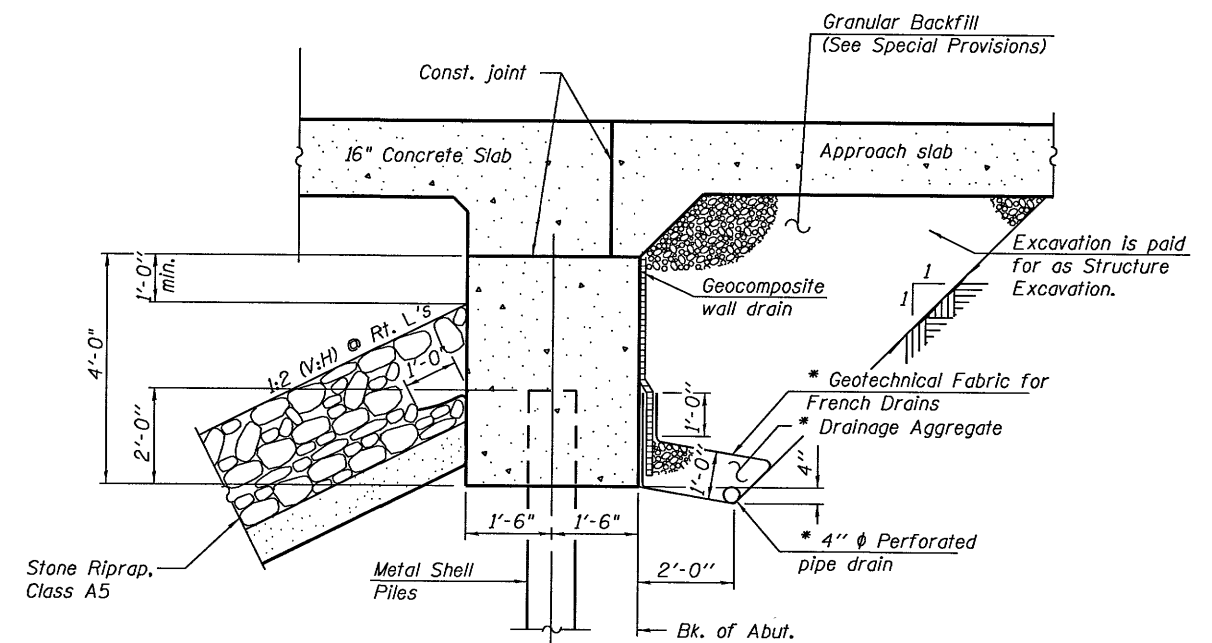


**SECTION B-B**

**WATERWAY INFORMATION**

Drainage Area = 10.8 sq. mi. Low Grade Elev. 624.55 @ Sta. 904+85

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Ten-Year	10	1,190	368	435	624.29	0.51	0.37	624.8	624.7
Design	50	1,890	368	435	625.72	0.23	0.22	626.0	625.9
Base	100	2,200	368	435	626.22	0.16	0.15	626.4	626.4
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	2,980	368	435	627.10	0.15	0.15	627.3	627.3



**SECTION THRU INTEGRAL ABUTMENT**

(Horiz. dim. @ Rt. L's)

\*Included in the cost of Pipe Underdrains for Structures.

Note:  
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

HR GREEN, INC.  
PROJECT CONTACT: KEVIN J. BRENN  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION  
FILE NAME: 098-0118-01-01-01-01.dgn  
PLOT DATE: 08/19/2010 10:08:00 AM  
PLOT SCALE: 1/8" = 1'-0"



USER NAME =	DESIGNED - MGH	REVISED
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PLOT DATE =	DRAWN - WJH	REVISED
	CHECKED - KJB	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL DATA  
STRUCTURE NO. 098-0118

SHEET NO. S-2 OF S-23 SHEETS

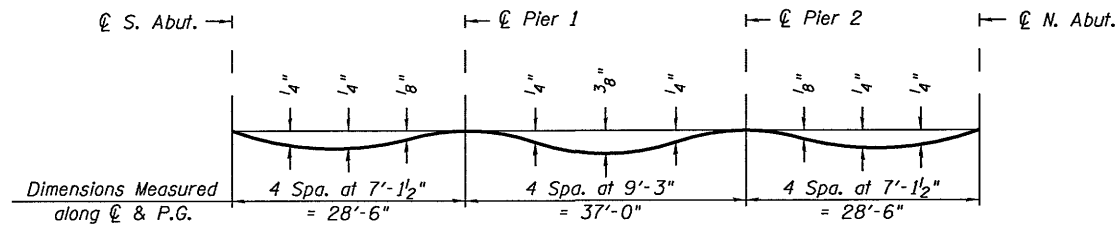
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	15BR-1	WHITESIDE	146	60
			CONTRACT NO.	64F19

ILLINOIS FED. AID PROJECT









**DEAD LOAD DEFLECTION DIAGRAM**

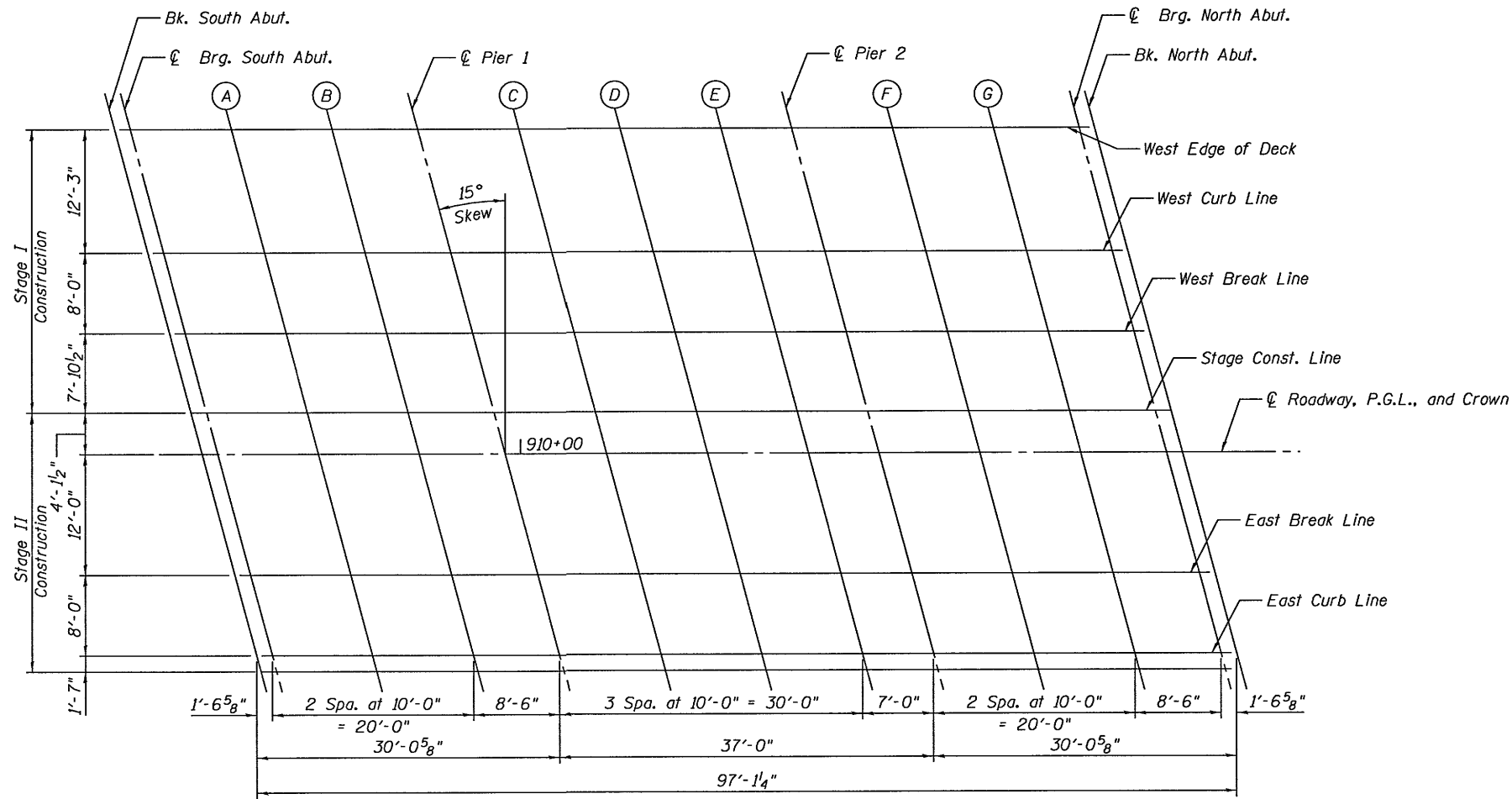
(Includes weight of concrete only.)

Note:

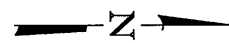
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on this sheet and on sheet S-6.

**WEST EDGE OF DECK**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	909+59.81	32.25	626.47	626.47
$\phi$ S. Abut.	909+61.36	32.25	626.48	626.48
A	909+71.36	32.25	626.53	626.55
B	909+81.36	32.25	626.58	626.59
Pier 1	909+89.86	32.25	626.62	626.62
C	909+99.86	32.25	626.67	626.69
D	910+09.86	32.25	626.72	626.75
E	910+19.86	32.25	626.77	626.79
Pier 2	910+26.86	32.25	626.81	626.81
F	910+36.86	32.25	626.86	626.87
G	910+46.86	32.25	626.91	626.93
$\phi$ N. Abut.	910+55.36	32.25	626.95	626.95
Bk. N. Abut.	910+56.91	32.25	626.96	626.96



**PLAN**



**WEST CURB LINE**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	909+63.09	20.00	626.75	626.75
$\phi$ S. Abut.	909+64.64	20.00	626.75	626.75
A	909+74.64	20.00	626.80	626.82
B	909+84.64	20.00	626.85	626.86
Pier 1	909+93.14	20.00	626.90	626.90
C	910+03.14	20.00	626.95	626.97
D	910+13.14	20.00	627.00	627.03
E	910+23.14	20.00	627.05	627.07
Pier 2	910+30.14	20.00	627.08	627.08
F	910+40.14	20.00	627.13	627.14
G	910+50.14	20.00	627.18	627.20
$\phi$ N. Abut.	910+58.64	20.00	627.22	627.22
Bk. N. Abut.	910+60.19	20.00	627.23	627.23

COMPANY NAME: HR GREEN, INC.  
 PROJECT CONTACT: KEVIN B. GREEN  
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	CHECKED - KJB	REVISED
PLOT SCALE =	DRAWN - WJH	REVISED
PLOT DATE =	CHECKED - KJB	REVISED

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS  
 STRUCTURE NO. 098-0118

SHEET NO. S-5 OF S-23 SHEETS

F.A.P. RTE. 22	SECTION 15BR-1	COUNTY WHITESIDE	TOTAL SHEETS 146	SHEET NO. 63
CONTRACT NO. 64F19				
[ILLINOIS] FED. AID PROJECT				

**WEST BREAK LINE**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	909+65.23	12.00	626.92	626.92
☉ S. Abut.	909+66.78	12.00	626.93	626.93
A	909+76.78	12.00	626.98	627.00
B	909+86.78	12.00	627.03	627.04
Pier 1	909+95.28	12.00	627.07	627.07
C	910+05.28	12.00	627.12	627.14
D	910+15.28	12.00	627.17	627.20
E	910+25.28	12.00	627.22	627.24
Pier 2	910+32.28	12.00	627.26	627.26
F	910+42.28	12.00	627.31	627.32
G	910+52.28	12.00	627.36	627.38
☉ N. Abut.	910+60.78	12.00	627.40	627.40
Bk. N. Abut.	910+62.33	12.00	627.41	627.41

**STAGE CONSTRUCTION LINE**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	909+67.34	4.13	627.06	627.06
☉ S. Abut.	909+68.89	4.13	627.07	627.07
A	909+78.89	4.13	627.12	627.14
B	909+88.89	4.13	627.17	627.18
Pier 1	909+97.39	4.13	627.21	627.21
C	910+07.39	4.13	627.26	627.28
D	910+17.39	4.13	627.31	627.34
E	910+27.39	4.13	627.36	627.38
Pier 2	910+34.39	4.13	627.39	627.39
F	910+44.39	4.13	627.44	627.45
G	910+54.39	4.13	627.49	627.51
☉ N. Abut.	910+62.89	4.13	627.54	627.54
Bk. N. Abut.	910+64.44	4.13	627.54	627.54

**☉ ROADWAY, P.G.L., AND CROWN**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	909+68.45	0.00	627.13	627.13
☉ S. Abut.	909+70.00	0.00	627.14	627.14
A	909+80.00	0.00	627.19	627.21
B	909+90.00	0.00	627.24	627.25
Pier 1	909+98.50	0.00	627.28	627.28
C	910+08.50	0.00	627.33	627.35
D	910+18.50	0.00	627.38	627.41
E	910+28.50	0.00	627.43	627.45
Pier 2	910+35.50	0.00	627.47	627.47
F	910+45.50	0.00	627.52	627.53
G	910+55.50	0.00	627.57	627.59
☉ N. Abut.	910+64.00	0.00	627.62	627.62
Bk. N. Abut.	910+65.55	0.00	627.62	627.62

**EAST BREAK LINE**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	909+71.67	12.00	626.96	626.96
☉ S. Abut.	909+73.22	12.00	626.96	626.96
A	909+83.22	12.00	627.01	627.03
B	909+93.22	12.00	627.06	627.07
Pier 1	910+01.72	12.00	627.11	627.11
C	910+11.72	12.00	627.16	627.18
D	910+21.72	12.00	627.21	627.24
E	910+31.72	12.00	627.26	627.28
Pier 2	910+38.72	12.00	627.29	627.29
F	910+48.72	12.00	627.34	627.35
G	910+58.72	12.00	627.39	627.41
☉ N. Abut.	910+67.22	12.00	627.44	627.44
Bk. N. Abut.	910+68.77	12.00	627.45	627.45

**EAST CURB LINE**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	909+73.81	20.00	626.80	626.80
☉ S. Abut.	909+75.36	20.00	626.81	626.81
A	909+85.36	20.00	626.86	626.88
B	909+95.36	20.00	626.91	626.92
Pier 1	910+03.86	20.00	626.95	626.95
C	910+13.86	20.00	627.00	627.02
D	910+23.86	20.00	627.05	627.08
E	910+33.86	20.00	627.10	627.12
Pier 2	910+40.86	20.00	627.14	627.14
F	910+50.86	20.00	627.19	627.20
G	910+60.86	20.00	627.24	627.26
☉ N. Abut.	910+69.36	20.00	627.29	627.29
Bk. N. Abut.	910+70.91	20.00	627.29	627.29

COMPANY NAME: HR GREEN, INC.  
 PROJECT CONTACT: KEVIN J BRENN  
 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DATE PLOTTED: 9/23/2012 3:24:54 PM  
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USER NAME =	DESIGNED - MGH	REVISED
	CHECKED - KJB	REVISED
PLOT SCALE =	DRAWN - WJH	REVISED
PLOT DATE =	CHECKED - KJB	REVISED

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS  
 STRUCTURE NO. 098-0118**

SHEET NO. S-6 OF S-23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	15BR-1	WHITESIDE	146	64
			CONTRACT NO. 64F19	
ILLINOIS FED. AID PROJECT				

**WEST EDGE OF PAVEMENT**

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr.	909+30.32	32.25	626.35
A	909+40.32	32.25	626.39
B	909+50.32	32.25	626.44
N. End of S. Appr.	909+60.32	32.25	626.48
S. End of N. Appr.	910+56.40	32.25	626.96
C	910+66.40	32.25	627.02
D	910+76.40	32.25	627.08
N. End of N. Appr.	910+86.40	32.25	627.12

**WEST CURB LINE**

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr.	909+33.60	20.00	626.61
A	909+43.60	20.00	626.66
B	909+53.60	20.00	626.70
N. End of S. Appr.	909+63.60	20.00	626.75
S. End of N. Appr.	910+59.68	20.00	627.23
C	910+69.68	20.00	627.29
D	910+79.68	20.00	627.34
N. End of N. Appr.	910+89.68	20.00	627.37

**WEST BREAK LINE**

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr.	909+35.74	12.00	626.78
A	909+45.74	12.00	626.83
B	909+55.74	12.00	626.88
N. End of S. Appr.	909+65.74	12.00	626.93
S. End of N. Appr.	910+61.82	12.00	627.41
C	910+71.82	12.00	627.47
D	910+81.82	12.00	627.51
N. End of N. Appr.	910+91.82	12.00	627.54

**STAGE CONSTRUCTION LINE**

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr.	909+37.85	4.13	626.91
A	909+47.85	4.13	626.96
B	909+57.85	4.13	627.01
N. End of S. Appr.	909+67.85	4.13	627.06
S. End of N. Appr.	910+63.93	4.13	627.54
C	910+73.93	4.13	627.60
D	910+83.93	4.13	627.63
N. End of N. Appr.	910+93.93	4.13	627.66

**Ⓢ ROADWAY, P.G.L., AND CROWN**

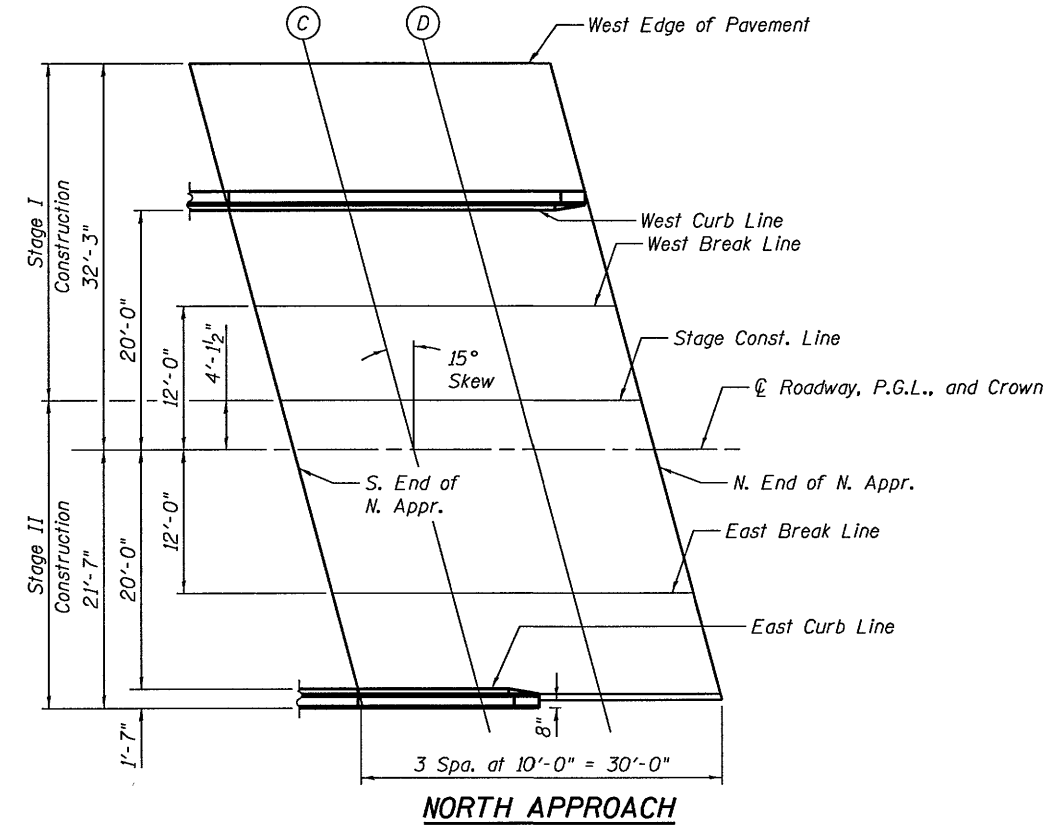
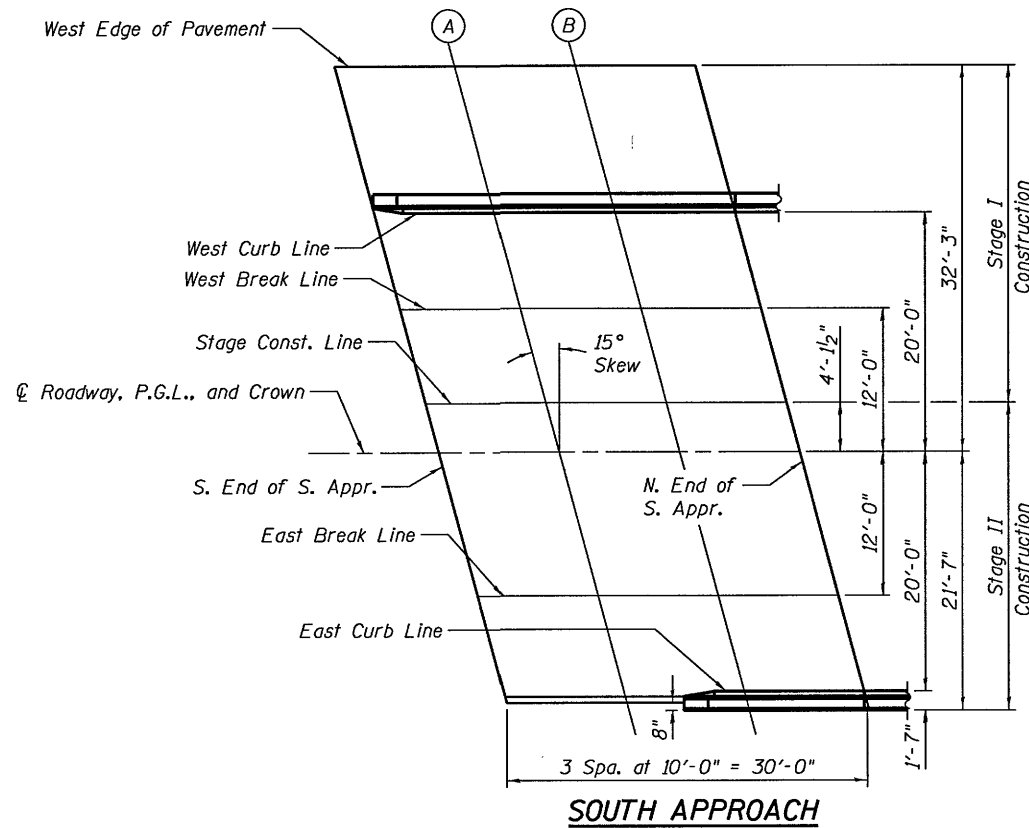
Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr.	909+38.96	0.00	626.98
A	909+48.96	0.00	627.03
B	909+58.96	0.00	627.08
N. End of S. Appr.	909+68.96	0.00	627.13
S. End of N. Appr.	910+65.04	0.00	627.61
C	910+75.04	0.00	627.67
D	910+85.04	0.00	627.70
N. End of N. Appr.	910+95.04	0.00	627.72

**EAST BREAK LINE**

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr.	909+42.18	12.00	626.82
A	909+52.18	12.00	626.86
B	909+62.18	12.00	626.91
N. End of S. Appr.	909+72.18	12.00	626.96
S. End of N. Appr.	910+68.26	12.00	627.45
C	910+78.26	12.00	627.49
D	910+88.26	12.00	626.59
N. End of N. Appr.	910+98.26	12.00	626.65

**EAST CURB LINE**

Location	Station	Offset	Theoretical Grade Elevations
S. End of S. Appr.	909+44.32	20.00	626.67
A	909+54.32	20.00	626.71
B	909+64.32	20.00	626.76
N. End of S. Appr.	909+74.32	20.00	626.80
S. End of N. Appr.	910+70.40	20.00	627.29
C	910+80.40	20.00	627.34
D	910+90.40	20.00	627.37
N. End of N. Appr.	911+00.40	20.00	627.39



COMPANY NAME: HR GREEN, INC.  
 PROJECT CONTACT: KEVIN J BRENN  
 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DATE PLOTTED: 9/13/2012 3:24:26 PM  
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USER NAME =	DESIGNED - MGH	REVISED
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PLOT DATE =	CHECKED - KJB	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

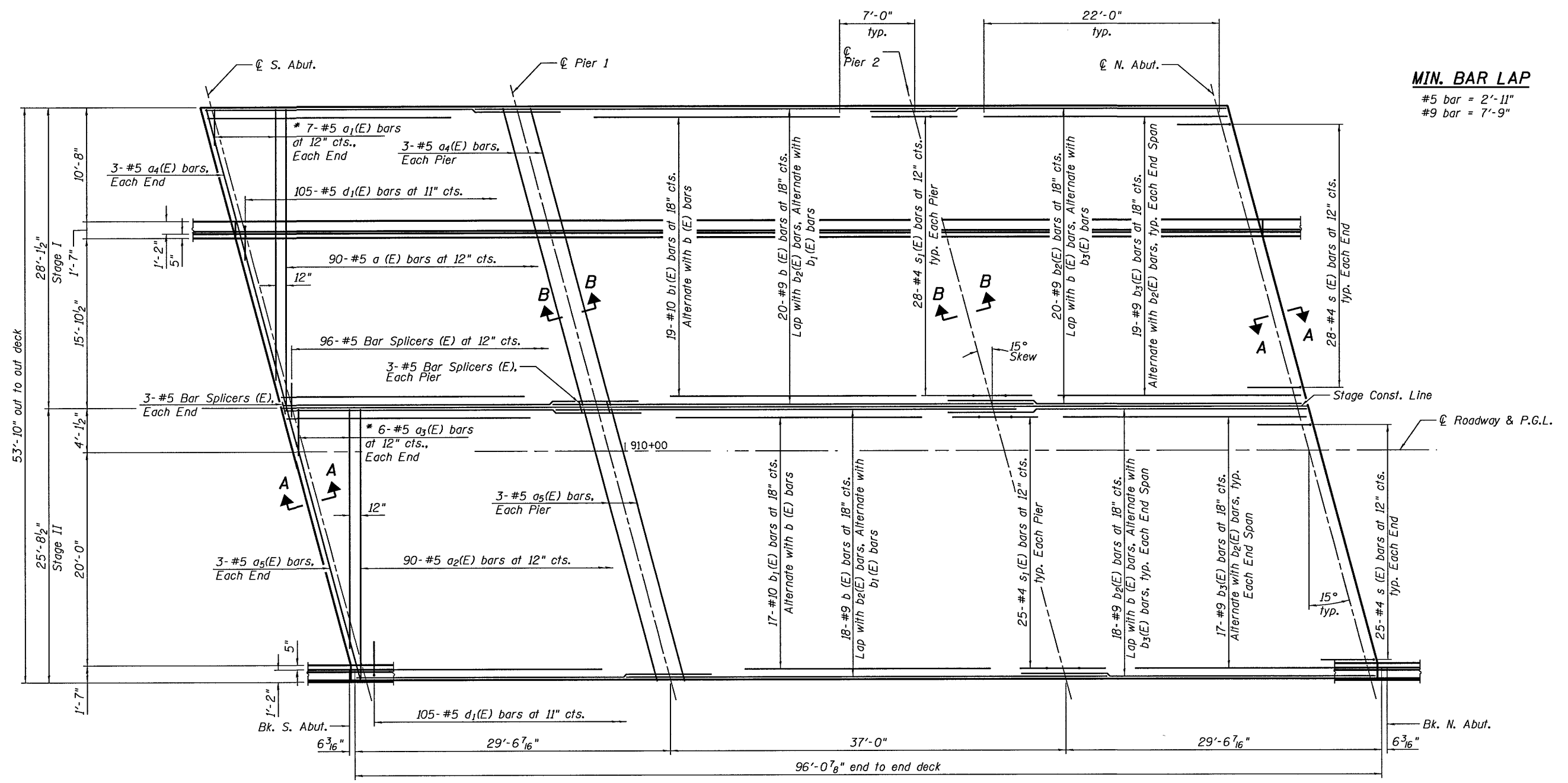
TOP OF APPROACH SLAB ELEVATIONS  
STRUCTURE NO. 098-0118

SHEET NO. S-7 OF S-23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	15BR-1	WHITESIDE	146	65
				CONTRACT NO. 64F19
ILLINOIS FED. AID PROJECT				

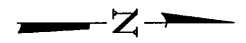
Notes:  
 See sheets S-10 and S-11 for superstructure details and Bill of Material.  
 See sheet S-11 for parapet reinforcement, Section A-A, Section B-B, and Cross Section.

\* Order  $a_1(E)$  and  $a_3(E)$  bars full length. Cut to fit skew and use remainder of bars in opposite end.



**MIN. BAR LAP**  
 #5 bar = 2'-11"  
 #9 bar = 7'-9"

**BOTTOM OF SLAB PLAN**



COMPANY NAME: HR GREEN, INC.  
 PROJECT CONTACT: KEVIN J BRENNAN  
 DATE PLOTTED: 9/17/2012 3:24:28 PM  
 FILE NAME: 080018-64F19-008-508-SBR.dgn  
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**HRGreen**  
 HRGreen.com  
 Illinois Professional Design Firm  
 # 184-001322

USER NAME =	DESIGNED - MGH	REVISED
	CHECKED - KJB	REVISED
PLOT SCALE =	DRAWN - WJH	REVISED
PLOT DATE =	CHECKED - KJB	REVISED

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE PLAN - BOTTOM REINFORCEMENT  
 STRUCTURE NO. 098-0118**

SHEET NO. 5-8 OF 5-23 SHEETS

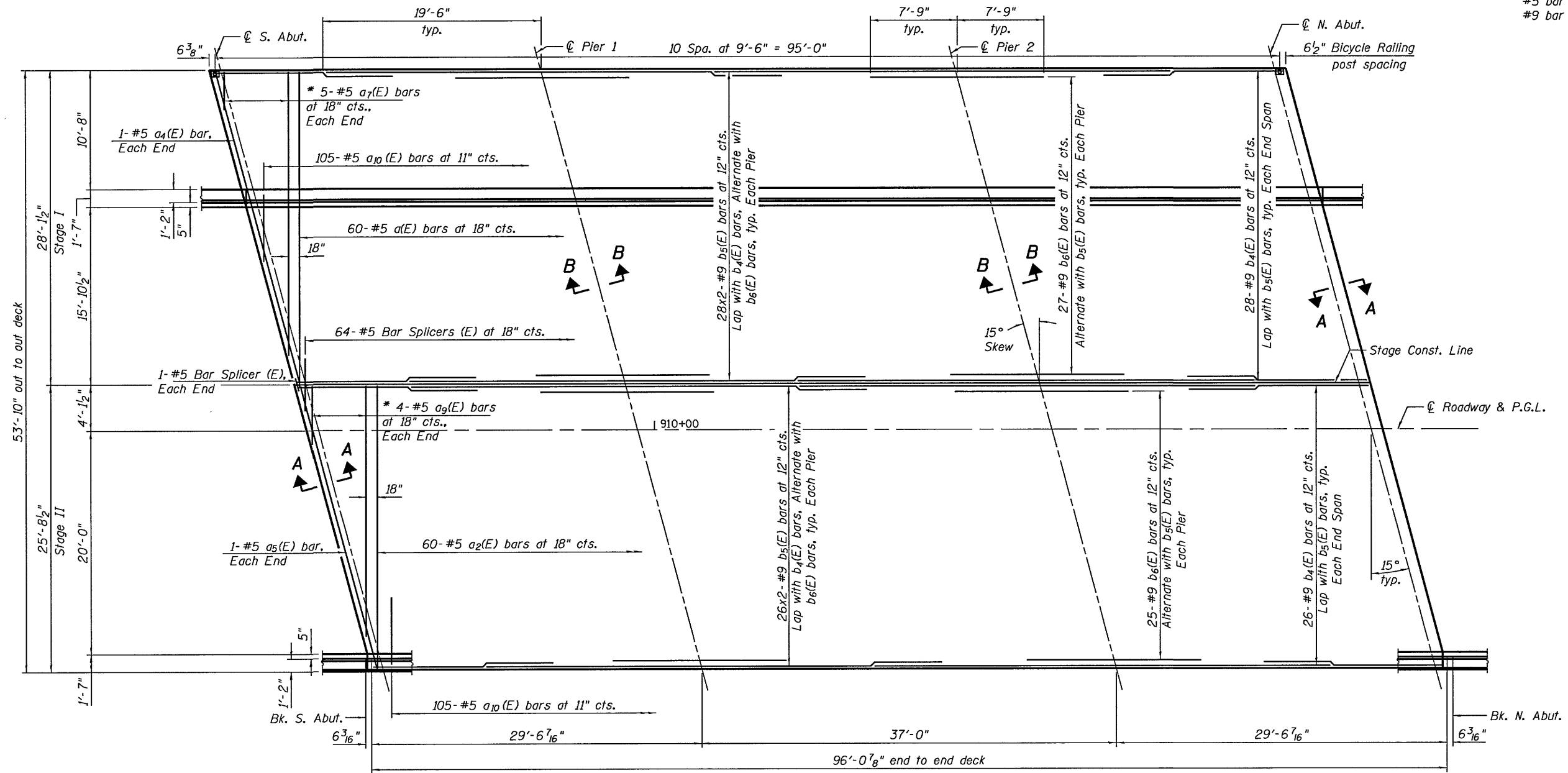
F.A.P. RTE. 22	SECTION 15BR-1	COUNTY WHITESIDE	TOTAL SHEETS 146	SHEET NO. 66
CONTRACT NO. 64F19				
ILLINOIS FED. AID PROJECT				

\* Order  $a_7(E)$  and  $a_9(E)$  bars full length.  
Cut to fit skew and use remainder of bars in opposite end.

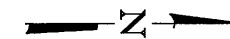
Notes:  
See sheets S-10 and S-11 for superstructure details and Bill of Material.  
Bars indicated thus 28 x 2-#9 etc. indicates 28 lines of bars with 2 lengths per line.  
See sheet S-11 for parapet reinforcement, Section A-A, Section B-B, and Cross Sections.

**MIN. BAR LAP**

#5 bar = 2'-11"  
#9 bar = 7'-9"



**TOP OF SLAB PLAN**



COMPANY NAME: HR GREEN, INC.  
PROJECT CONTACT: KEVIN J BRENN  
CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION  
DATE PLOTTED: 9/13/2012 3:24:30 PM  
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	CHECKED - KJB	REVISED
PLOT SCALE =	DRAWN - WJH	REVISED
PLOT DATE =	CHECKED - KJB	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

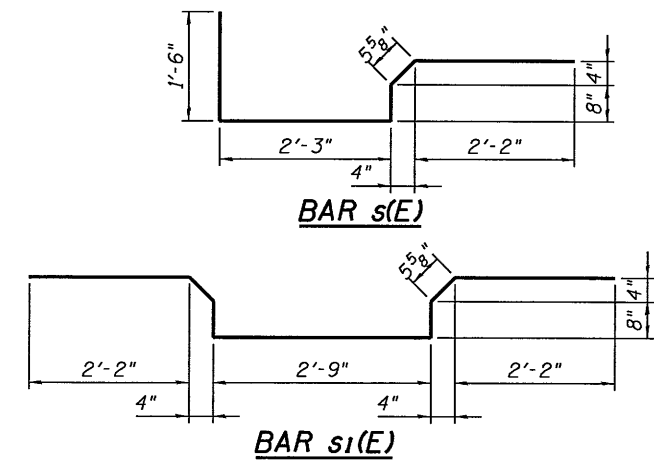
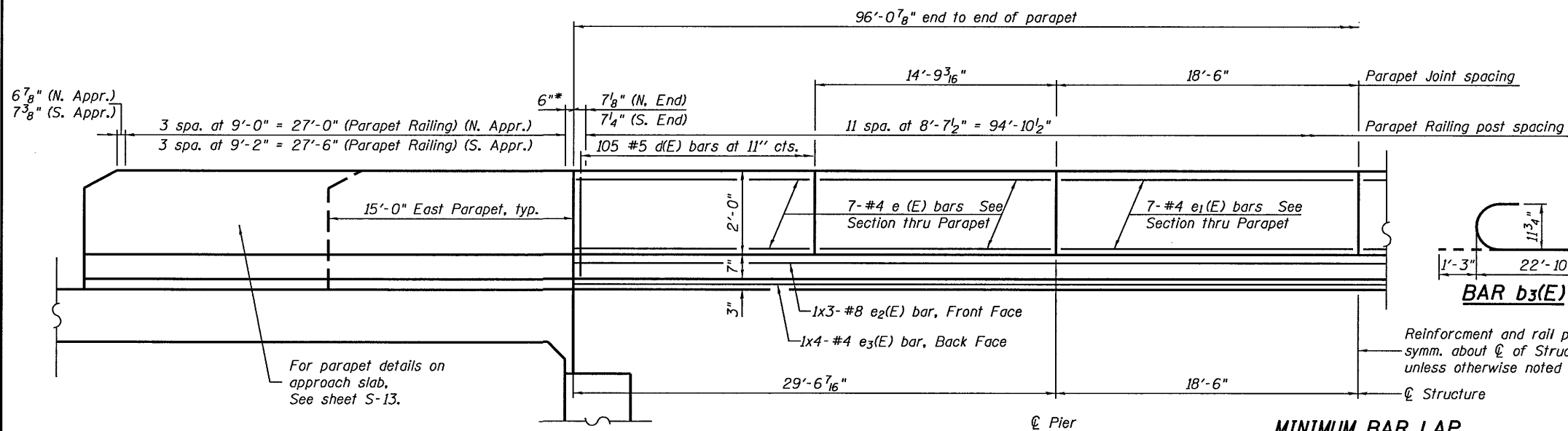
SUPERSTRUCTURE PLAN - TOP REINFORCEMENT  
STRUCTURE NO. 098-0118

SHEET NO. S-9 OF S-23 SHEETS

F.A.P. RTE. 22	SECTION 15BR-1	COUNTY WHITESIDE	TOTAL SHEETS 146	SHEET NO. 67
				CONTRACT NO. 64F19
ILLINOIS FED. AID PROJECT				

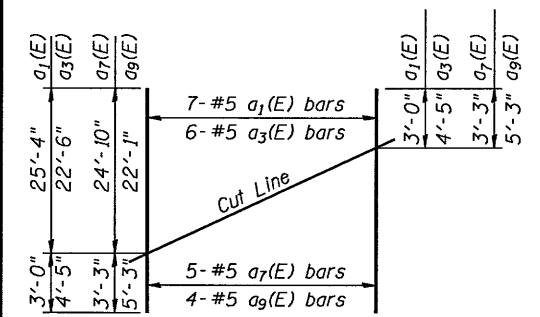






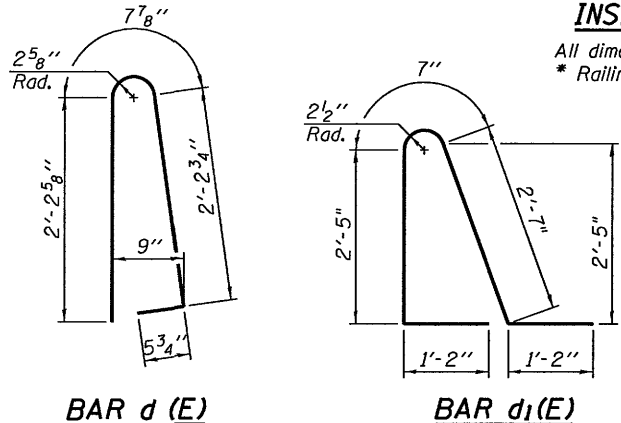
**SUPERSTRUCTURE  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	150	#5	27'-9"	—
a1(E)	7	#5	28'-4"	—
a2(E)	150	#5	25'-4"	—
a3(E)	6	#5	26'-11"	—
a4(E)	14	#5	28'-8"	—
a5(E)	14	#5	26'-3"	—
a6(E)	5	#5	28'-1"	—
a8(E)	4	#5	27'-4"	—
a9(E)	210	#5	6'-6"	—
b(E)	38	#9	44'-9"	—
b1(E)	36	#10	23'-0"	—
b2(E)	76	#9	33'-3"	—
b3(E)	72	#9	24'-1"	—
b4(E)	108	#9	17'-6"	—
b5(E)	108	#9	42'-0"	—
b6(E)	104	#9	15'-6"	—
d(E)	210	#5	5'-7"	⏏
d1(E)	210	#5	7'-11"	⏏
e(E)	60	#4	14'-5"	—
e1(E)	28	#4	18'-2"	—
e2(E)	6	#8	35'-7"	—
e3(E)	8	#4	25'-6"	—
s(E)	106	#4	7'-1"	⏏
s1(E)	106	#4	9'-4"	⏏
Concrete Superstructure			Cu. Yd.	292.3
Reinforcement Bars, Epoxy Coated			Pound	68,070



**FIELD CUTTING DIAGRAM**

Order a1(E), a3(E), a7(E), & a9(E) full length. Cut as shown and use remainder of bars in opposite end.



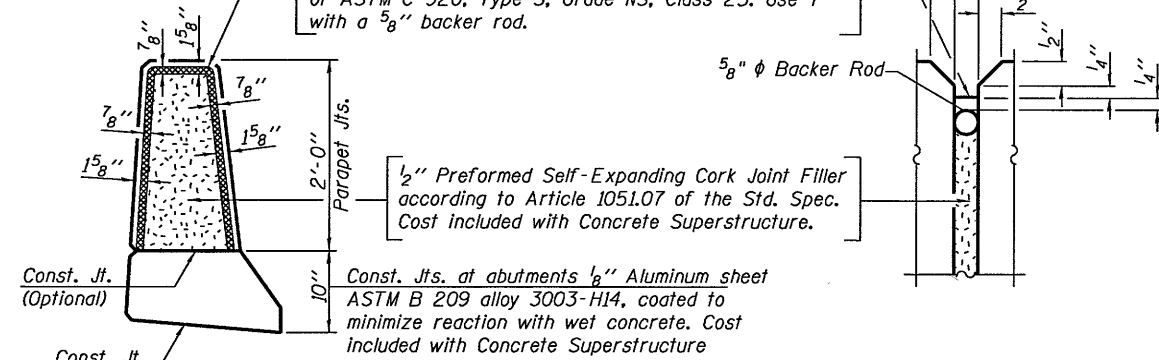
**INSIDE ELEVATION OF PARAPET**

All dimensions measured along front face of parapet \* Railing expansion joint, See sheet S-14.

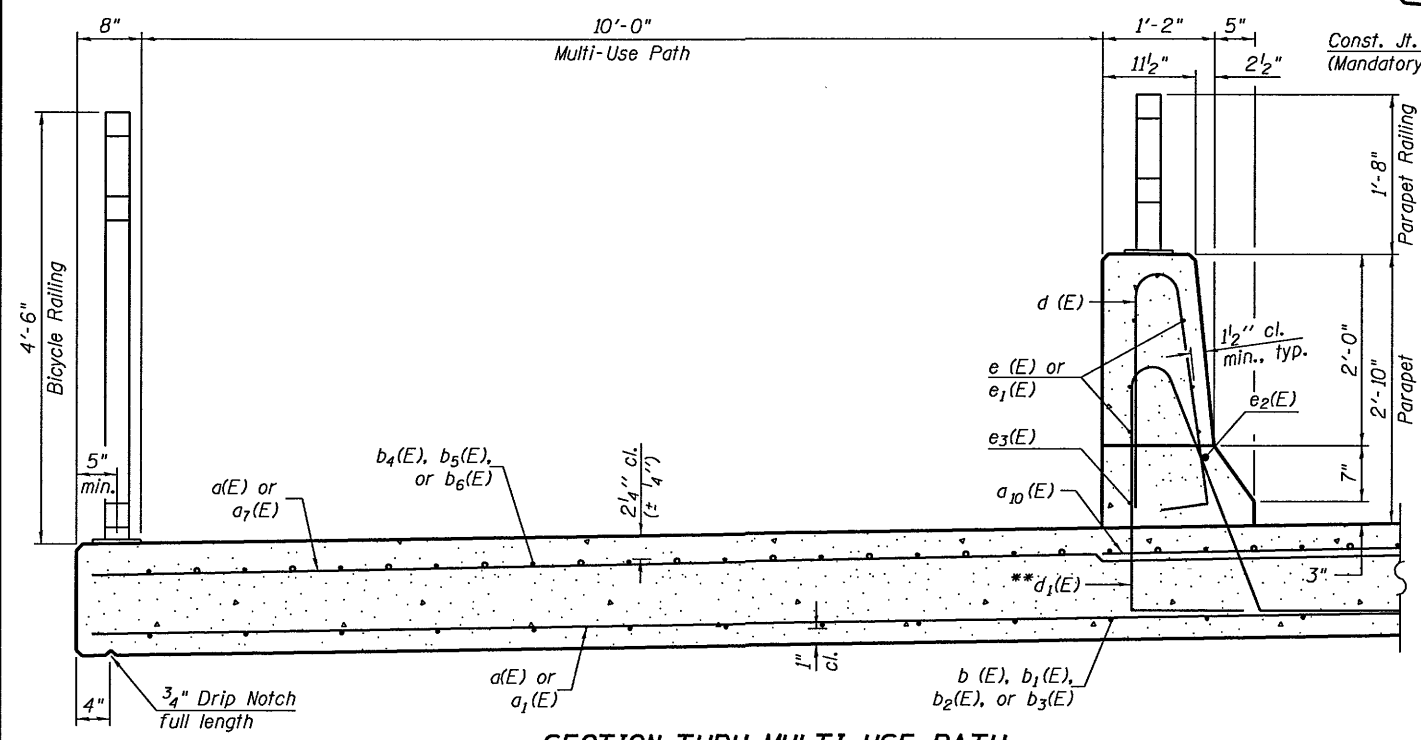
**MINIMUM BAR LAP**

(Parapet)  
#4 bar = 2'-0"  
#8 bar = 5'-2"

Non-staining gray one component non-sag elastomeric gun grade polyurethane sealant meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25. Use T with a 5/8" backer rod.

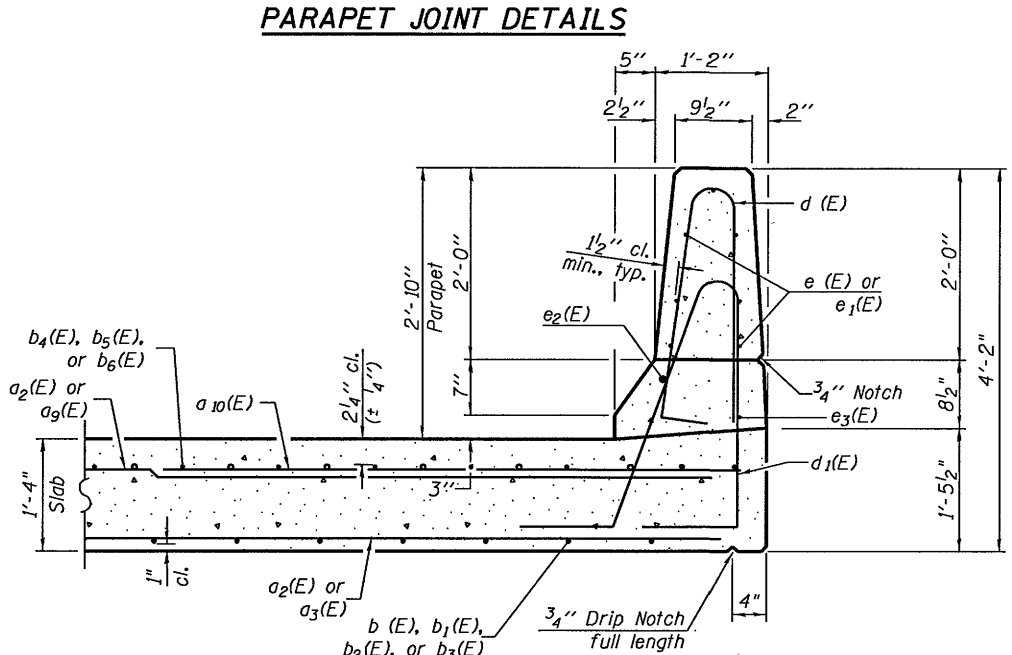


**PARAPET JOINT DETAILS**



**SECTION THRU MULTI-USE PATH**

\*\* See Sheet S-10 for Alternate Parapet Reinforcement for Interior 34" F Shape Parapet detail.



**SECTION THRU PARAPET**

HR GREEN, INC.  
KEVIN J. BREHM  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
CHICAGO, ILLINOIS 60601  
PLOT SCALE =  
PLOT DATE =



USER NAME =	DESIGNED - MGH	REVISED
DESIGNED - MGH	CHECKED - KJB	REVISED
DESIGNED - MGH	DRAWN - WJH	REVISED
DESIGNED - MGH	CHECKED - KJB	REVISED

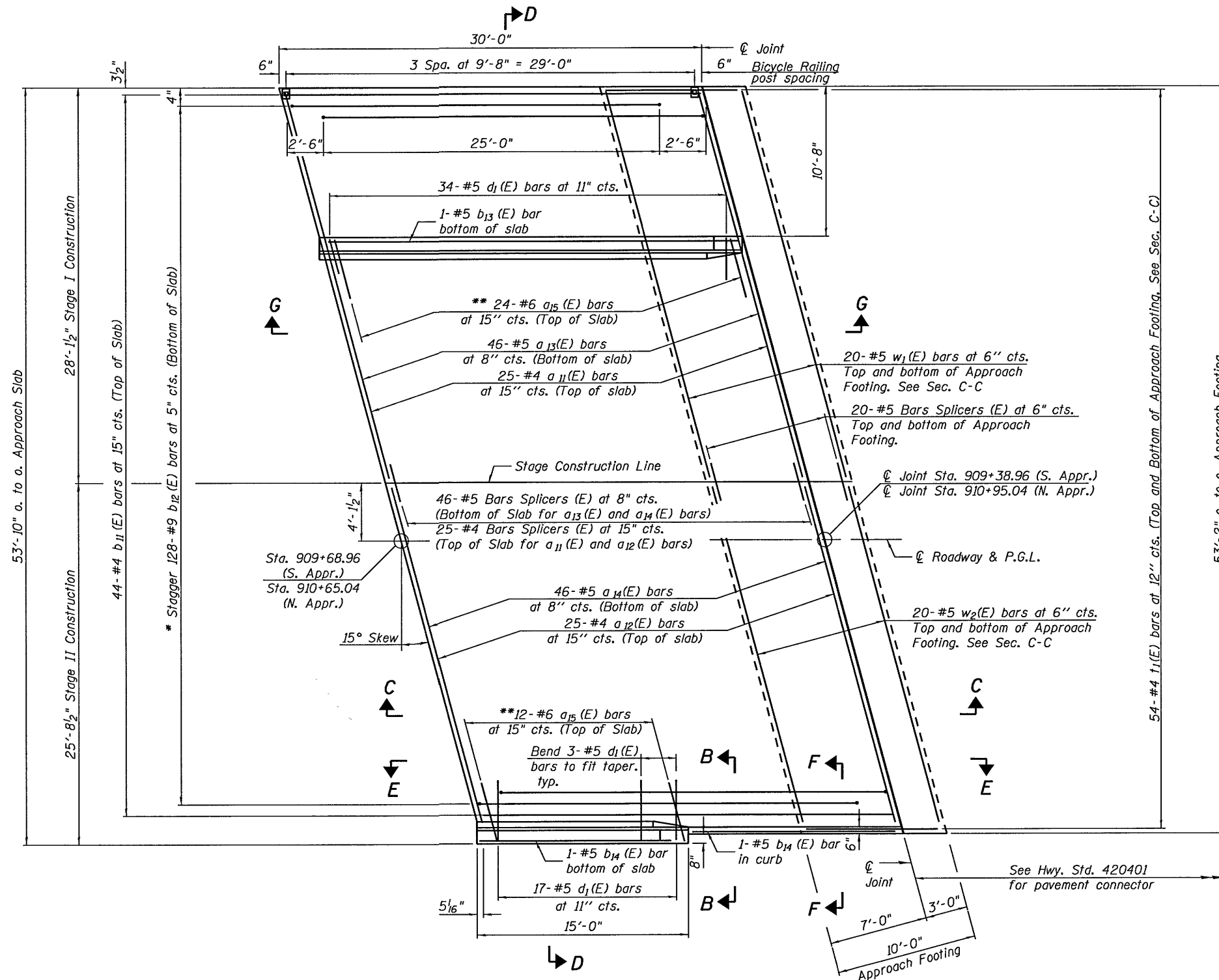
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE BILL OF MATERIAL AND PARAPET DETAILS  
STRUCTURE NO. 098-0118

SHEET NO. S-11 OF S-23 SHEETS

F.A.P. RTE. = 22	SECTION = 15BR-1	COUNTY = WHITESIDE	TOTAL SHEETS = 146	SHEET NO. = 69
				CONTRACT NO. 64F19
ILLINOIS FED. AID PROJECT				

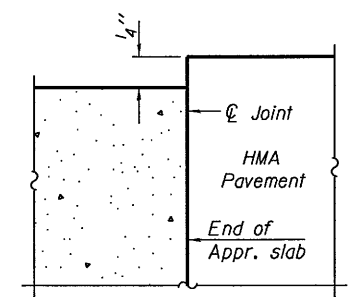
Notes:  
See sheet S-14 for Sections C-C & D-D and Views E-E & G-G.  
a<sub>1</sub>(E), a<sub>2</sub>(E), a<sub>3</sub>(E), and a<sub>4</sub>(E) bar spacings measured along  $\phi$  Roadway.



**NORTH APPROACH PLAN**

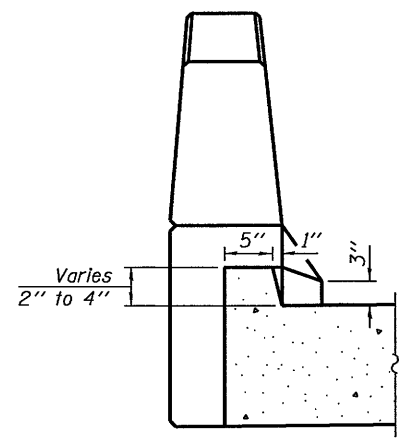
Note: South Approach is the opposite hand

- \* Tilt #9 b<sub>12</sub>(E) bars as required to maintain clearance.
- \*\* Space between a<sub>11</sub>(E) or a<sub>12</sub>(E) bars.

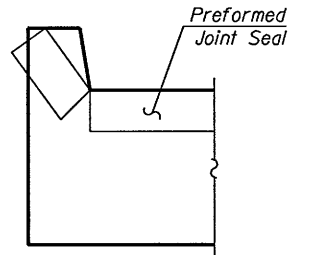


**FLEXIBLE PAVEMENT**

**DETAIL A**



**VIEW B-B**



**VIEW F-F**

Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.

COMPANY NAME: HR GREEN, INC.  
PROJECT CONTACT: ALYSON B. HARRIS  
DATE PLOTTED: 9/13/2012 3:24:37 PM  
FILE NAME: 0980118-64F19-012-S12-BAP.dwg  
PLOT DRIVER: pdf\_bw\_no\_level.ctb  
PEN TABLE: Illinois\_half.tbl



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PLOT DATE =	CHECKED - KJB	REVISED

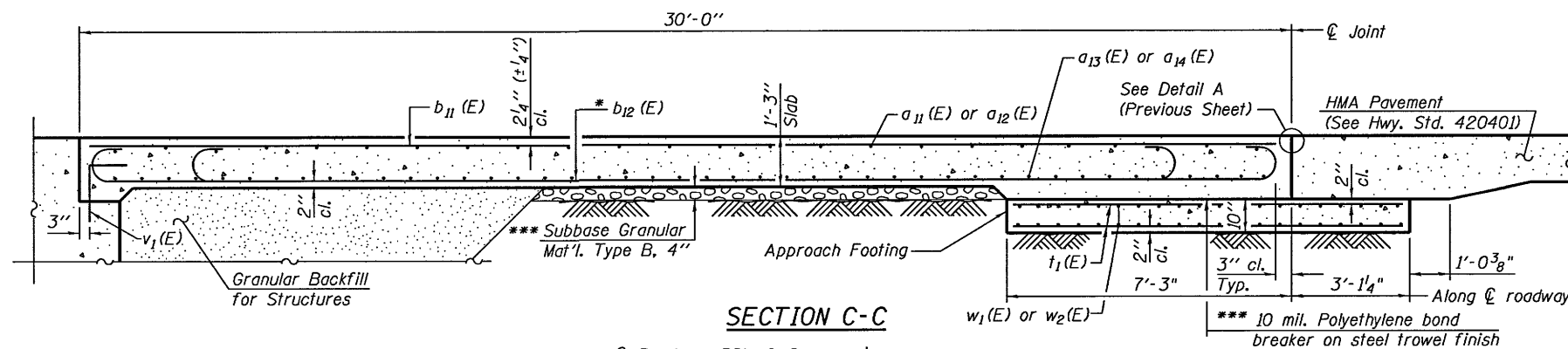
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS  
STRUCTURE NO. 098-0118

SHEET NO. S-12 OF S-23 SHEETS

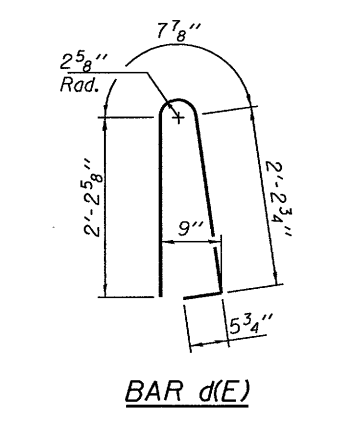
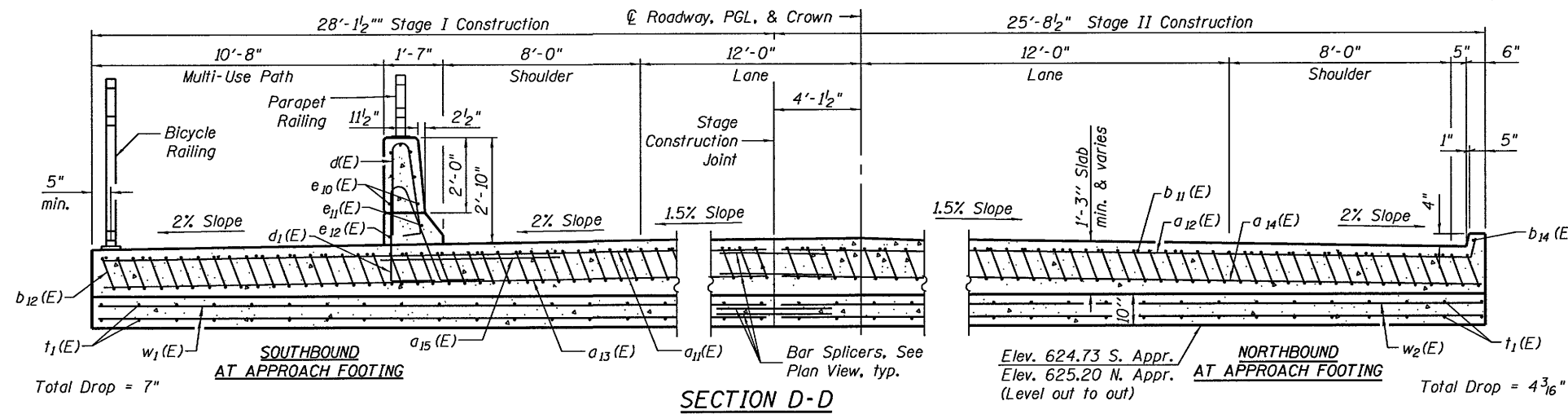
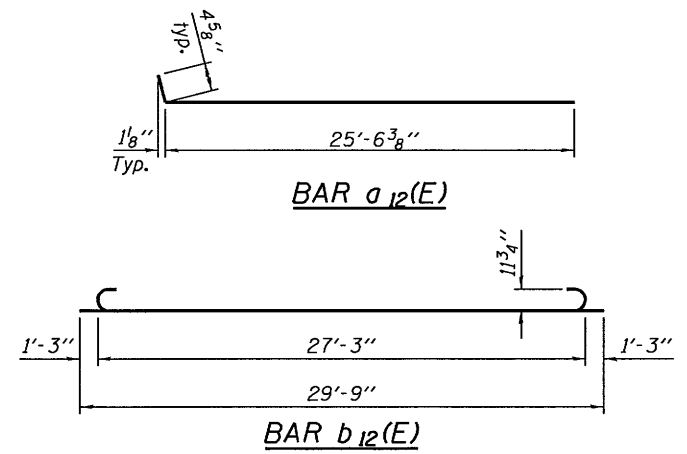
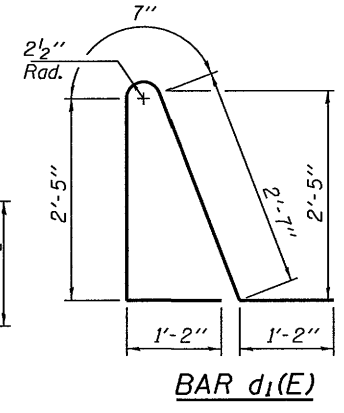
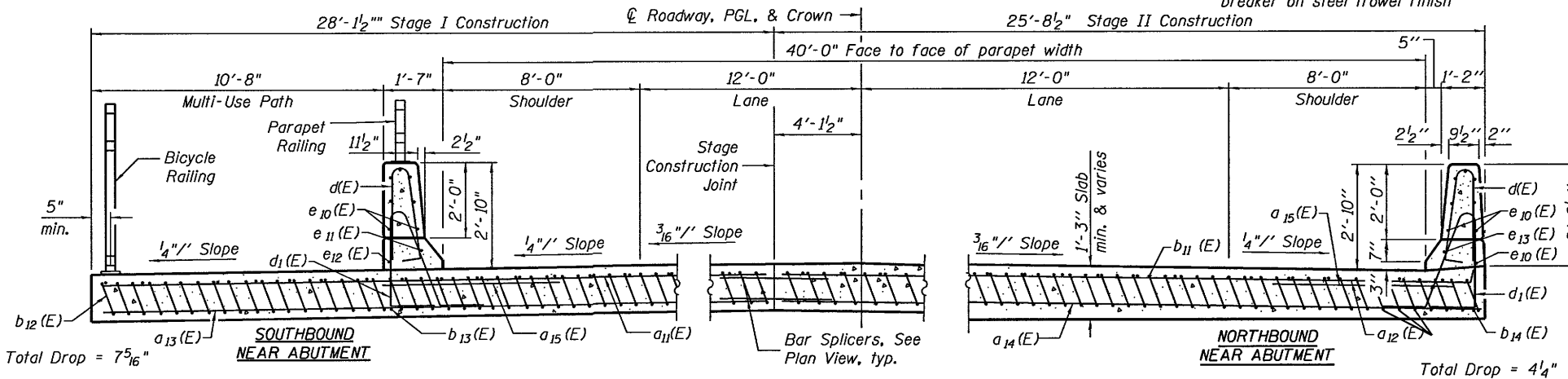
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	15BR-1	WHITESIDE	146	70
				CONTRACT NO. 64F19

ILLINOIS FED. AID PROJECT



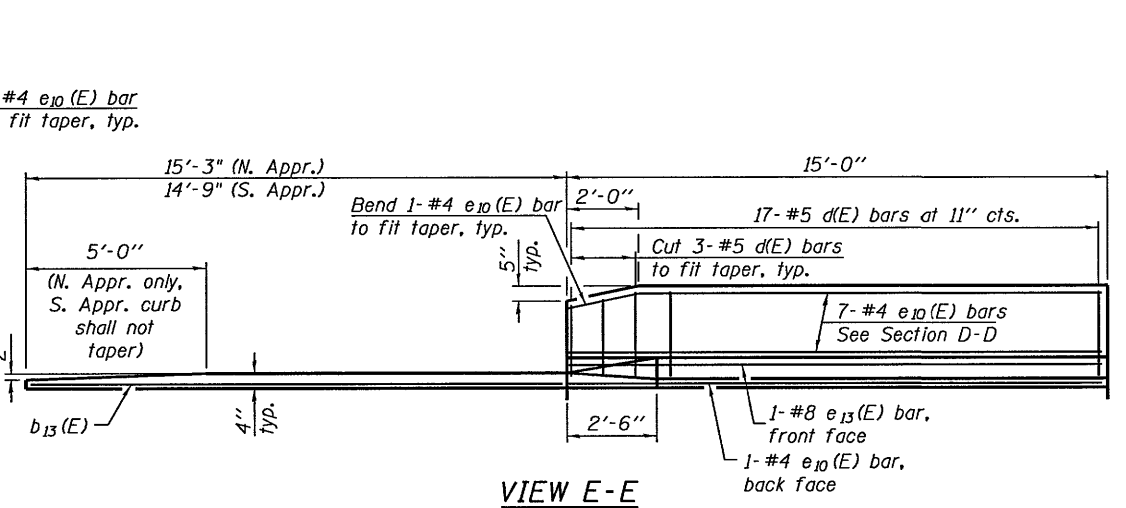
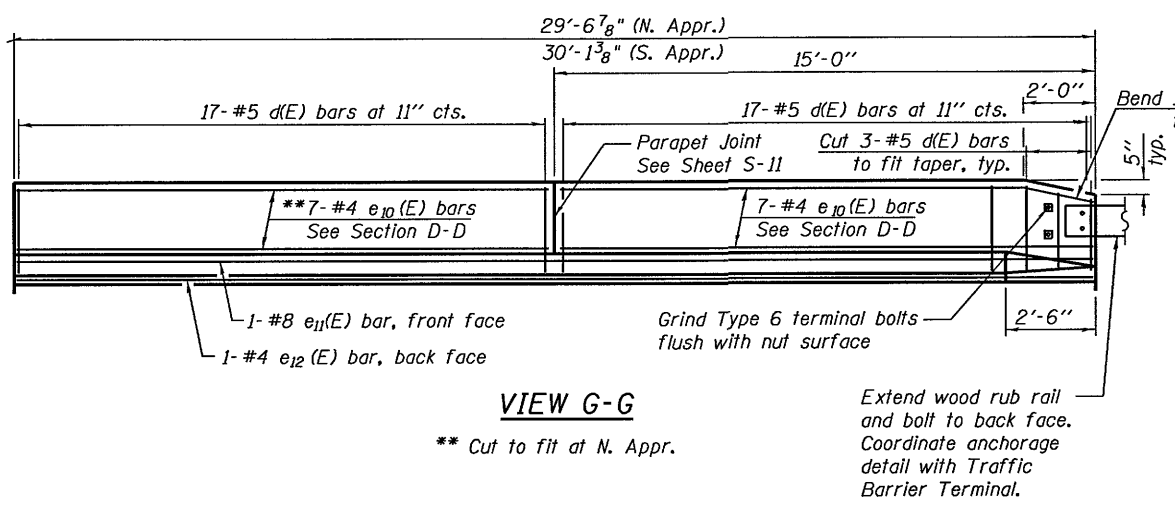
Notes:  
 See sheet S-13 for Detail A, View B-B, and View F-F.  
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.  
 Approach footing concrete shall be paid for as Concrete Structures.  
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.  
 For  $v_1(E)$  bar details, see sheets S-15 and S-16.  
 The approach footing maximum applied service bearing pressure ( $Q_{max}$ ) = 2.0 ksf.  
 For bar splicer details, see sheet S-21.  
 Cost of excavation for approach footing included with Concrete Structures.  
 For Granular Backfill for Structures and drainage treatment details, see sheet S-2.  
 See Roadway Plans for Rub Rail Detail.

\* Tilt #9  $b_{12}(E)$  bars as required to maintain clearance.  
 \*\*\* Cost included with Concrete Superstructure.



**TWO APPROACHES  
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
$a_{11}(E)$	50	#4	28'-9"	—
$a_{12}(E)$	50	#4	25'-11"	—
$a_{13}(E)$	92	#5	28'-9"	—
$a_{14}(E)$	92	#5	25'-7"	—
$a_{15}(E)$	72	#6	6'-6"	—
$b_{11}(E)$	88	#4	29'-8"	—
$b_{12}(E)$	256	#9	29'-9"	—
$b_{13}(E)$	2	#5	29'-8"	—
$b_{14}(E)$	4	#5	14'-8"	—
$d(E)$	102	#5	5'-7"	⏏
$d_1(E)$	102	#5	7'-11"	⏏
$e_{10}(E)$	42	#4	14'-8"	—
$e_{11}(E)$	2	#8	29'-8"	—
$e_{12}(E)$	2	#4	29'-8"	—
$e_{13}(E)$	2	#8	14'-8"	—
$t_1(E)$	216	#4	9'-8"	—
$w_1(E)$	80	#5	28'-9"	—
$w_2(E)$	80	#5	25'-7"	—
Concrete Structures			Cu. Yd.	33.8
Concrete Superstructure			Cu. Yd.	170.5
Reinforcement Bars, Epoxy Coated			Pound	43,570



COMPANY NAME: HR GREEN, INC.  
 PROJECT CONTACT: KEVIN J BREEM  
 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION  
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 PLOT TABLE:

HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

USER NAME =	DESIGNED - MGH	REVISED
PLLOT SCALE =	CHECKED - KJB	REVISED
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

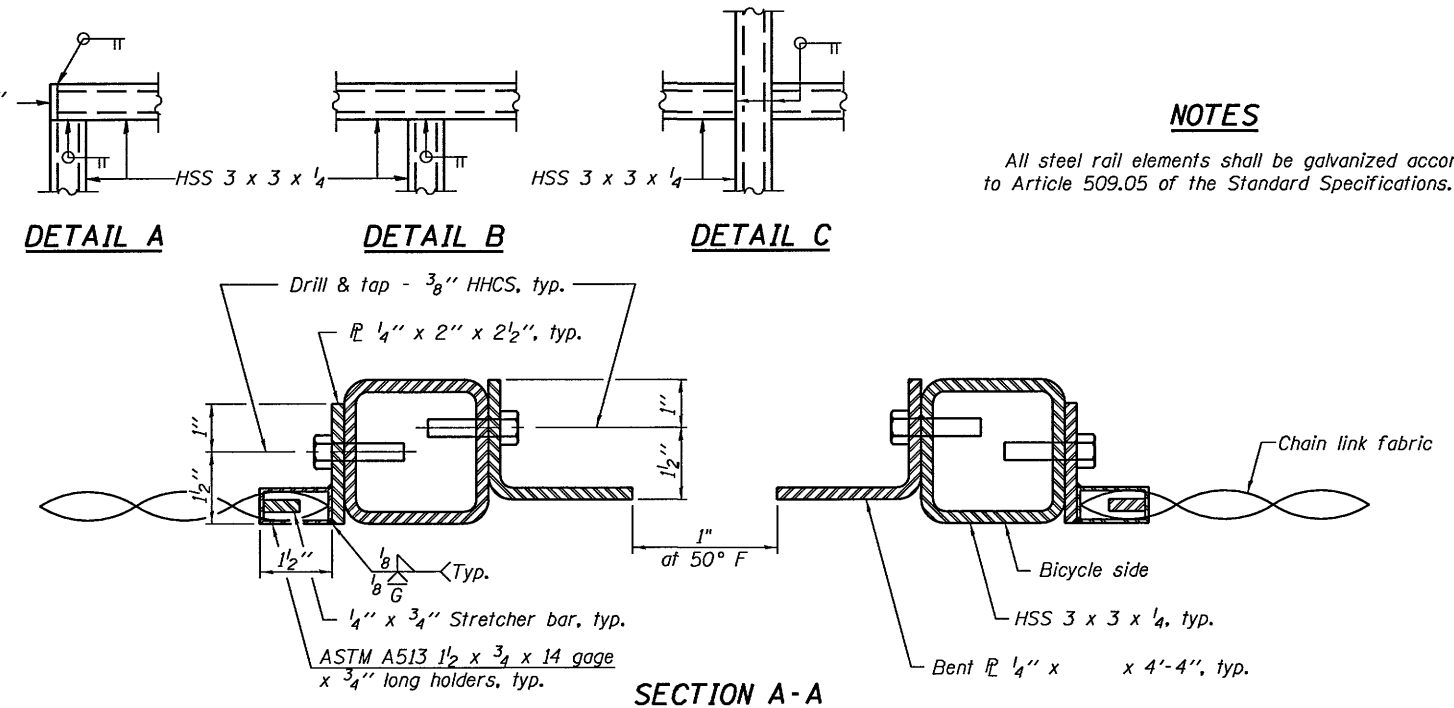
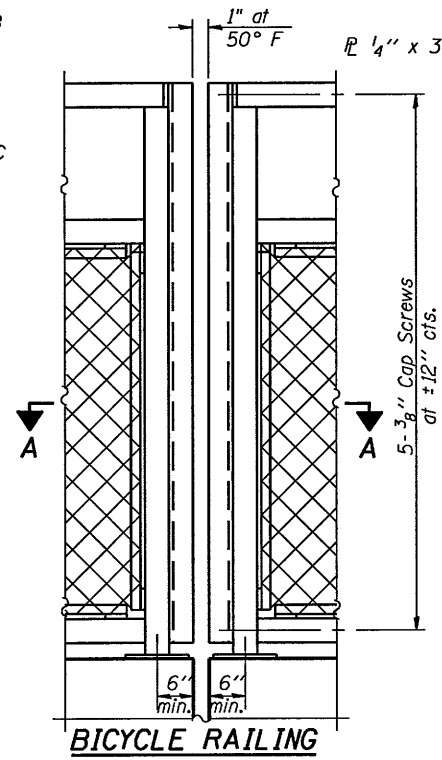
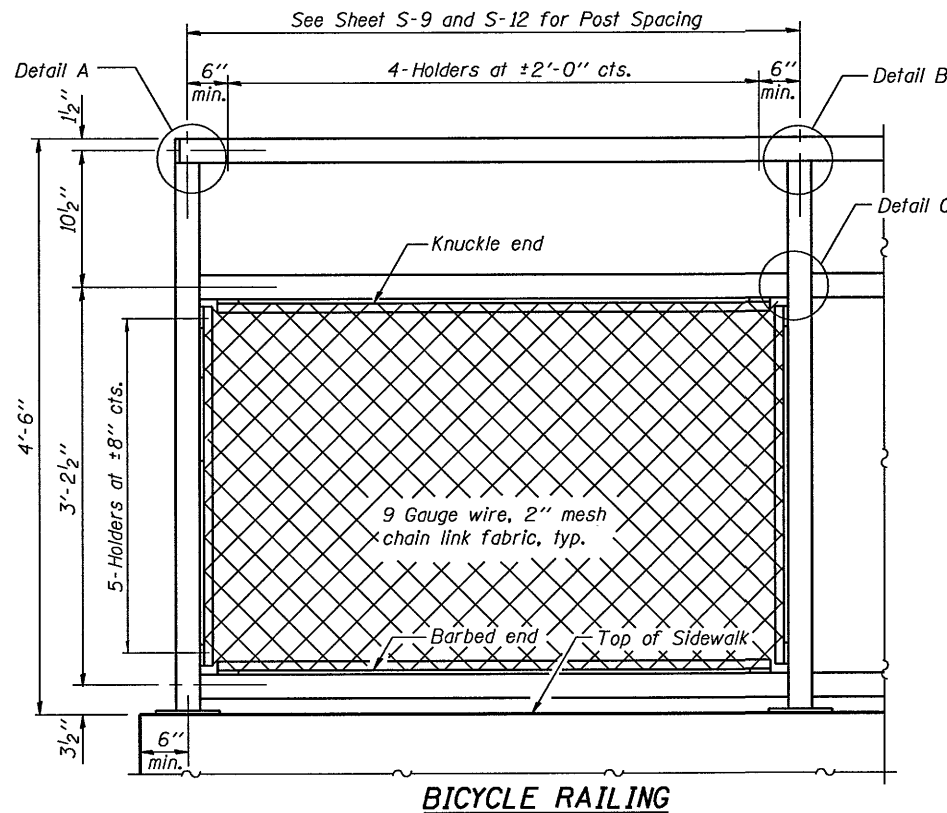
BRIDGE APPROACH SLAB DETAILS

F.A.P. RTE. 22	SECTION 15BR-1	COUNTY WHITESIDE	TOTAL SHEETS 146	SHEET NO. 71
				CONTRACT NO. 64F19

SHEET NO. S-13 OF SC-2 SHEETS

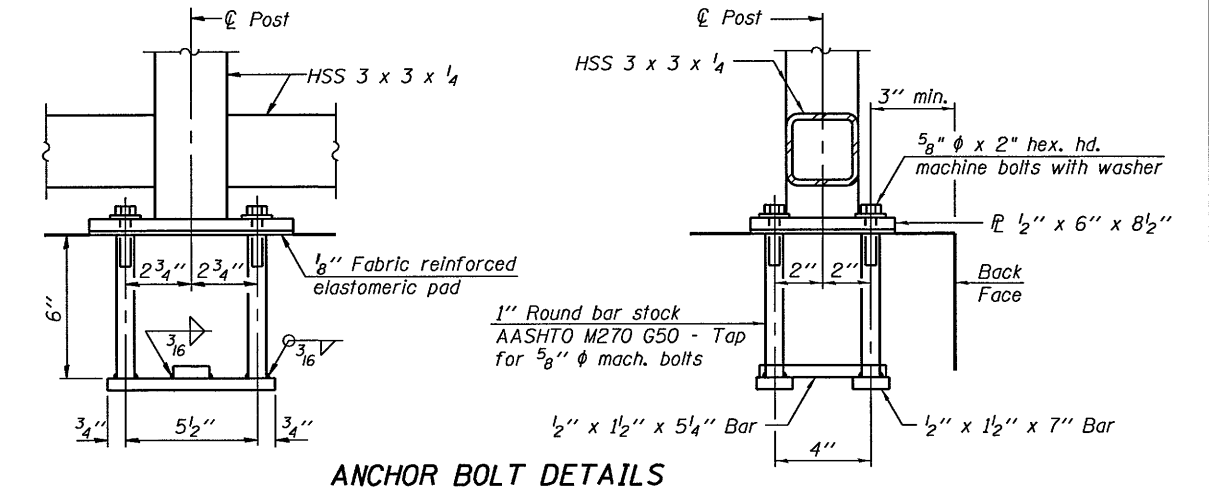
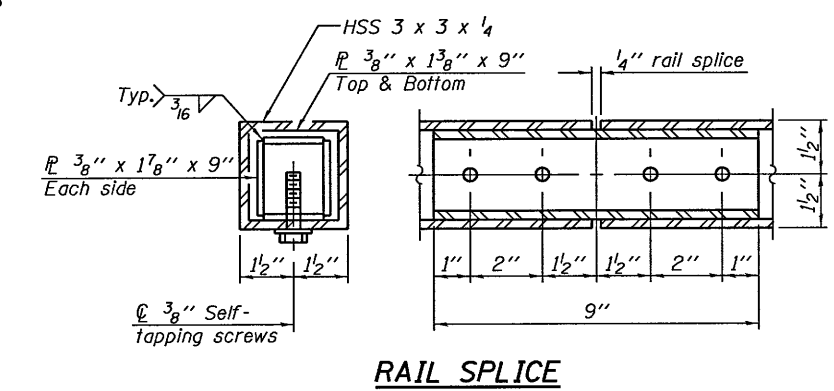
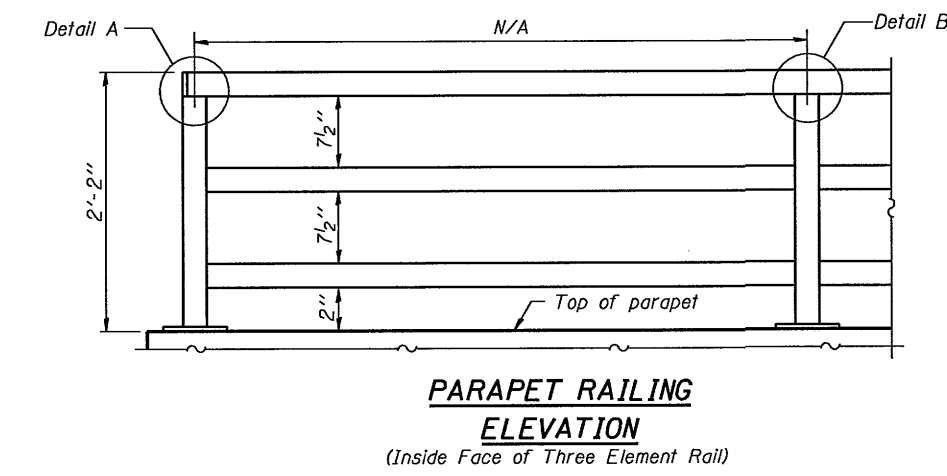
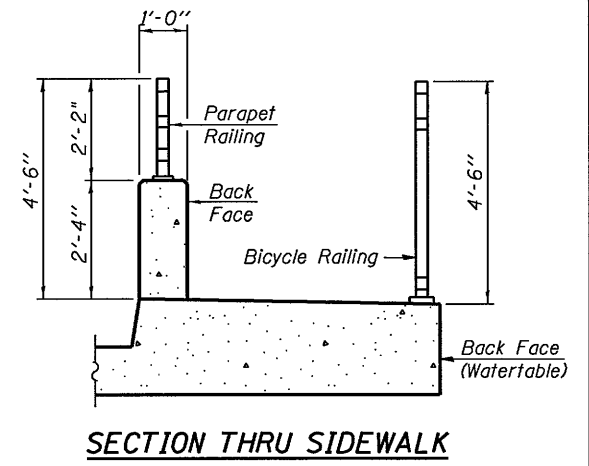
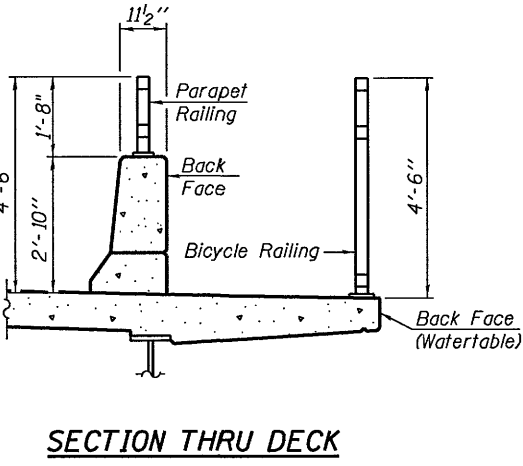
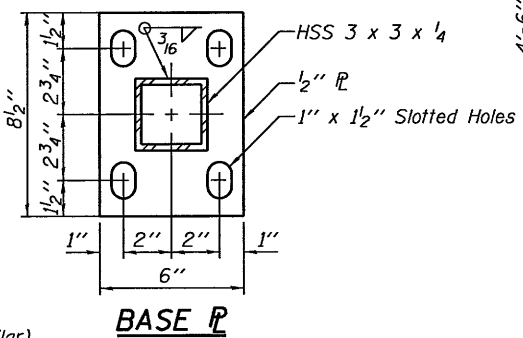
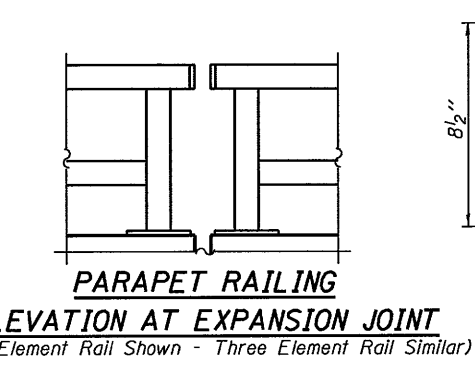
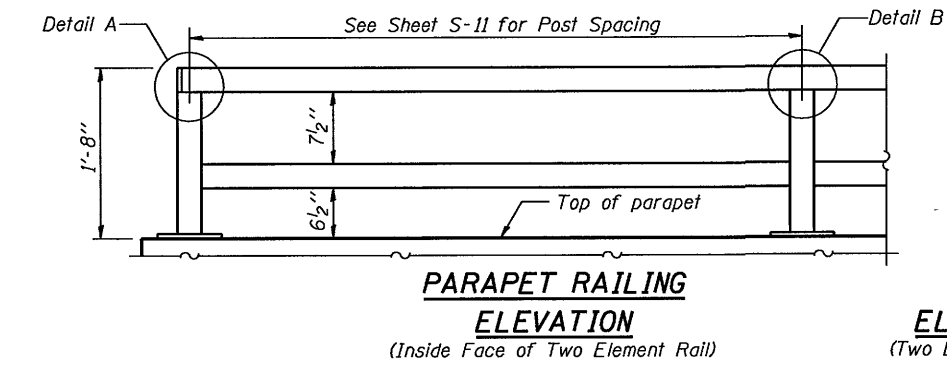
(Sheet 2 of 2)

ILLINOIS FED. AID PROJECT



**NOTES**

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" φ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

**BILL OF MATERIAL**

Item	Unit	Quantity
Bicycle Railing	Foot	156
Parapet Railing	Foot	152

COMPANY NAME: HR GREEN, INC.  
 PROJECT CONTACT: HR GREEN, INC.  
 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION  
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**R-29**

7-1-10

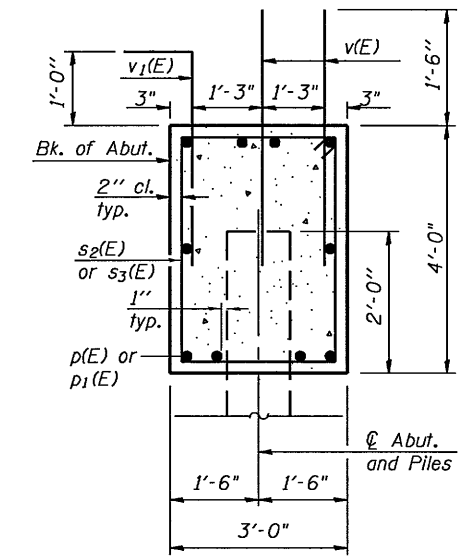
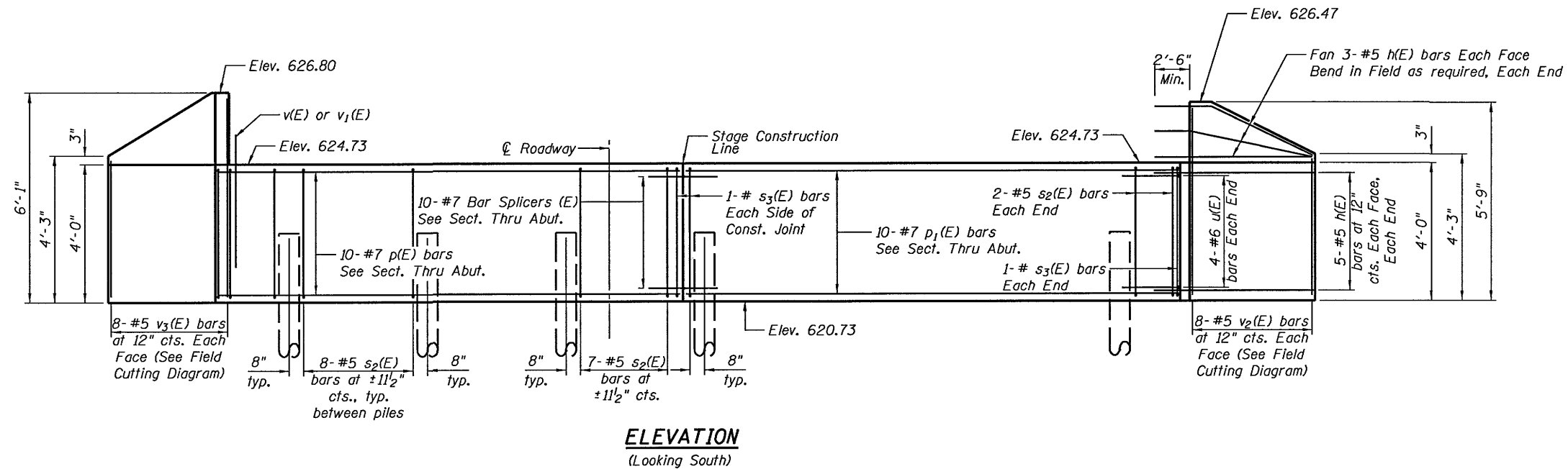
HRGreen.com  
 Illinois Professional Design Firm  
 # 184-001322

USER NAME =	DESIGNED - MGH	REVISED
PLOT SCALE =	CHECKED - KJB	REVISED
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

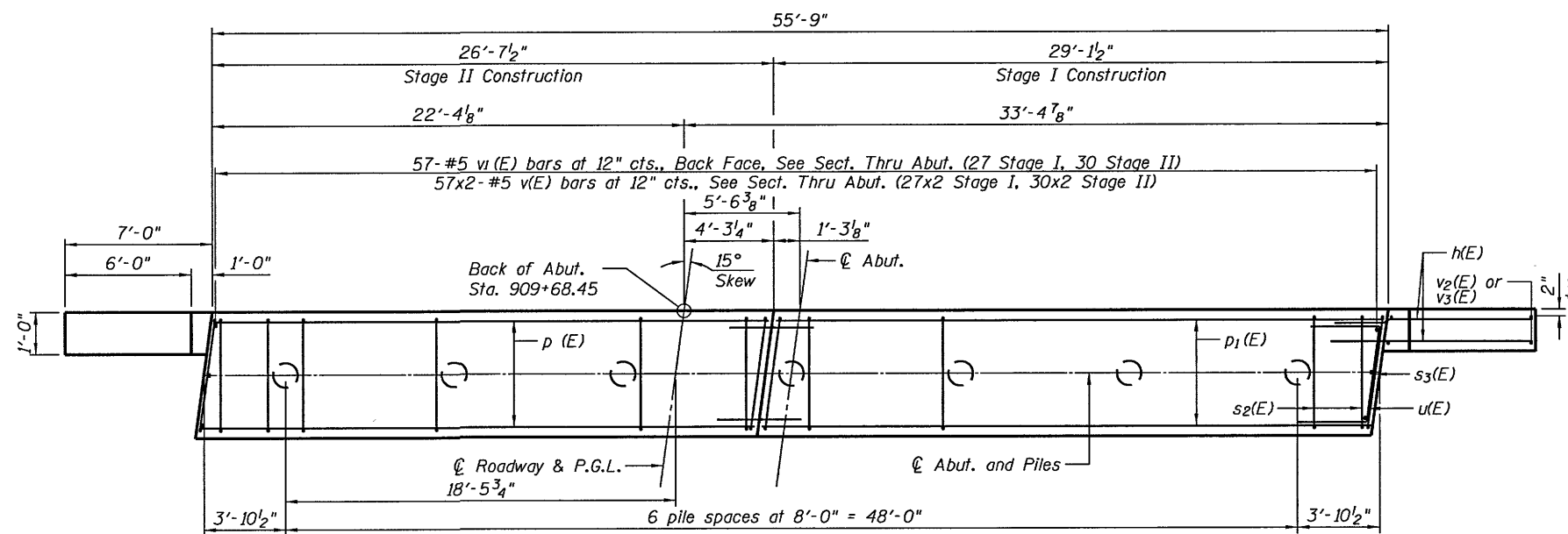
PEDESTRIAN FENCING AND RAILING ON BARRIER  
 STRUCTURE NO. 098-0118  
 SHEET NO. S-14 OF S-23 SHEETS

F.A.P. RTE. 22	SECTION 15BR-1	COUNTY WHITESIDE	TOTAL SHEETS 146	SHEET NO. 72
				CONTRACT NO. 64F19
ILLINOIS FED. AID PROJECT				



**ELEVATION**  
(Looking South)

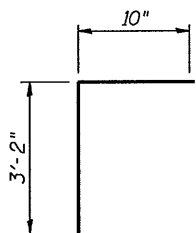
**SEC. THRU ABUT.**



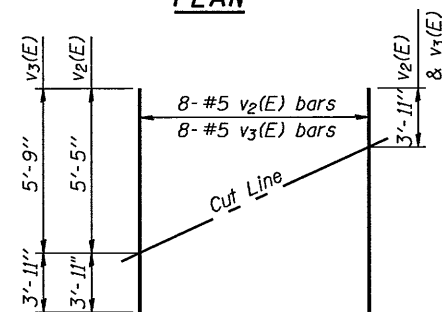
**PLAN**

**PILE DATA**

Type: Metal Shell Piles 14" x 0.25"  
Nominal Required Bearing: 265 Kips  
Factored Resistance Available: 146 Kips  
Est. Length: 46 Ft.  
No. Production Piles: 6  
No. Test Piles: 1

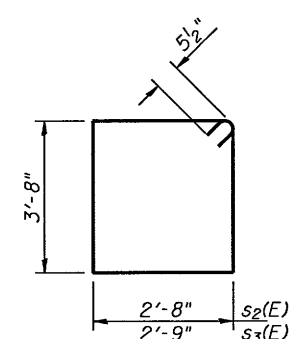


**BARS v1(E)**

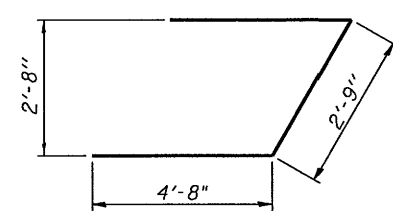


**FIELD CUTTING DIAGRAM**

Order v2(E) & v3(E) full length. Cut as shown and use remainder of bars in opposite face.



**BARS s2(E) & s3(E)**



**BAR u(E)**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	32	#5	9'-4"	—
p(E)	10	#7	22'-0"	—
p1(E)	10	#7	33'-0"	—
s2(E)	52	#5	13'-7"	□
s3(E)	4	#5	13'-9"	□
u(E)	8	#6	12'-1"	┌
v(E)	114	#5	3'-8"	—
v1(E)	57	#5	4'-0"	┌
v2(E)	8	#5	9'-4"	—
v3(E)	8	#5	9'-8"	—
Structure Excavation		Cu. Yd.	30	
Concrete Structures		Cu. Yd.	27.5	
Reinforcement Bars, Epoxy Coated		Pound	3200	
Furnishing Metal Shell Piles, 14" x 0.250"		Foot	276	
Driving Piles		Foot	276	
Test Pile Metal Shells		Each	1	

For details of Bar Splicers, see sheet S-21.  
For details of piles, see sheet S-20. Cost for metal shell reinforcement is included in pay item Furnishing Metal Shell Piles, 14" x 0.250".

COMPANY NAME: HR GREEN, INC.  
PROJECT CONTACT: KEVIN J. BRENN  
CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION  
DATE PLOTTED: 9/23/2012 3:26:43 PM  
PLOT SCALE: 1/8" = 1'-0"  
PEN TABLE: HRGreen



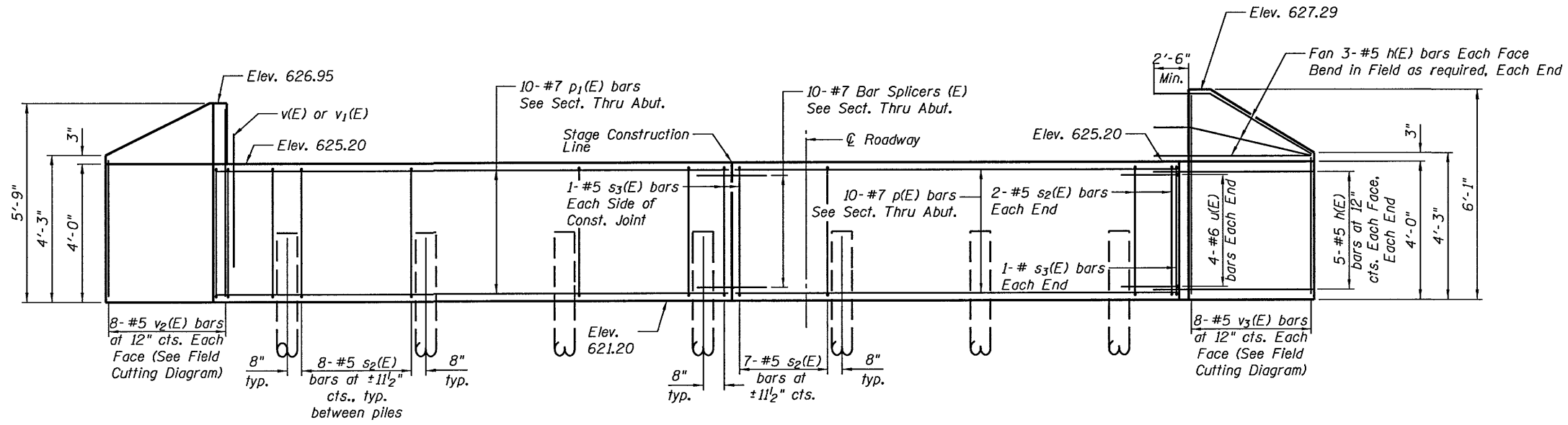
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

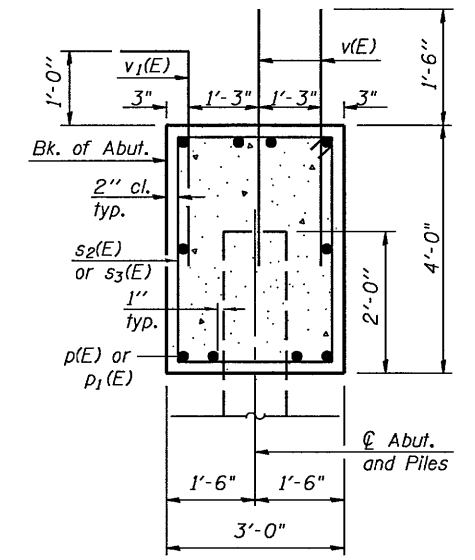
SOUTH ABUTMENT DETAILS  
STRUCTURE NO. 098-0118

SHEET NO. S-15 OF S-23 SHEETS

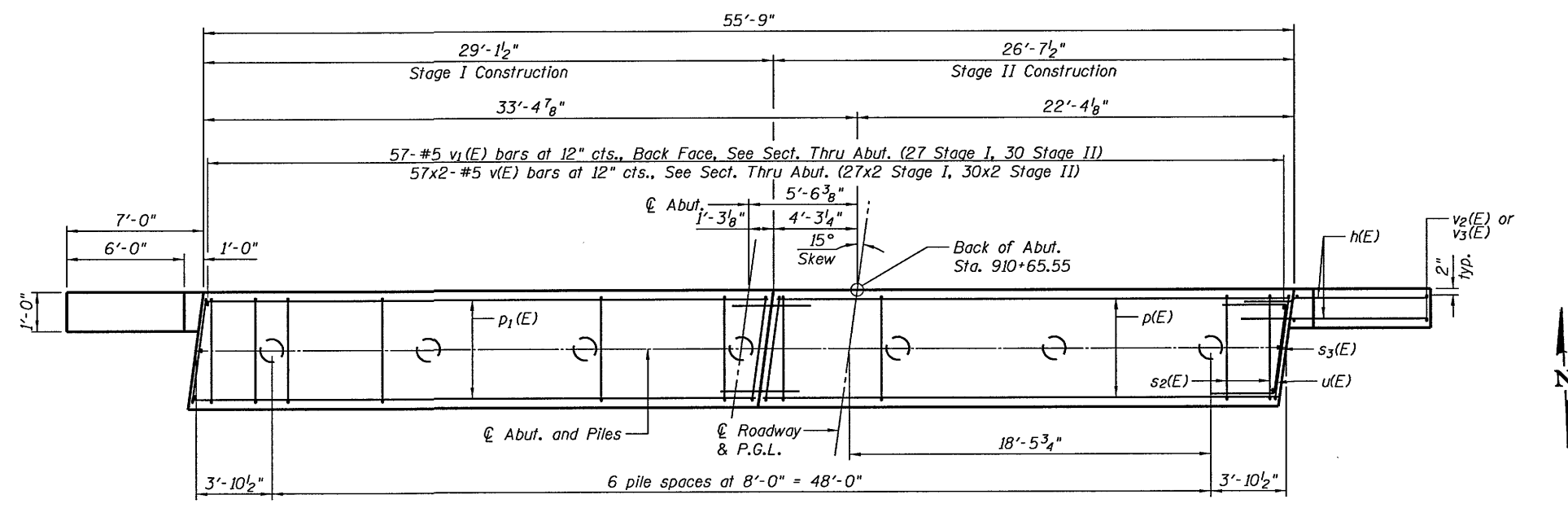
F.A.P. RTE. 22	SECTION 15BR-1	COUNTY WHITESIDE	TOTAL SHEETS 146	SHEET NO. 73
				CONTRACT NO. 64F19
ILLINOIS FED. AID PROJECT				



**ELEVATION**  
(Looking North)



**SEC. THRU ABUT.**



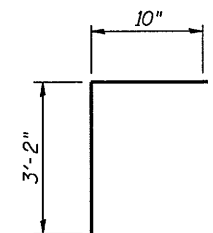
**PLAN**

**BILL OF MATERIAL**

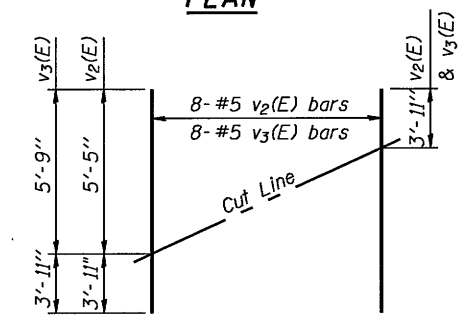
Bar	No.	Size	Length	Shape
h(E)	32	#5	9'-4"	—
p(E)	10	#7	22'-0"	—
p1(E)	10	#7	33'-0"	—
s2(E)	52	#5	13'-7"	□
s3(E)	4	#5	13'-9"	□
u(E)	8	#6	12'-1"	┘
v(E)	114	#5	3'-8"	—
v1(E)	57	#5	4'-0"	┘
v2(E)	8	#5	9'-4"	—
v3(E)	8	#5	9'-8"	—
Structure Excavation		Cu. Yd.	205	
Concrete Structures		Cu. Yd.	27.5	
Reinforcement Bars, Epoxy Coated		Pound	3200	
Furnishing Metal Shell Piles, 14" x 0.250"		Foot	258	
Driving Piles		Foot	258	
Test Pile Metal Shells		Each	1	

**PILE DATA**

Type: Metal Shell Piles 14" x 0.25"  
 Nominal Required Bearing: 265 Kips  
 Factored Resistance Available: 146 Kips  
 Est. Length: 43 Ft.  
 No. Production Piles: 6  
 No. Test Piles: 1

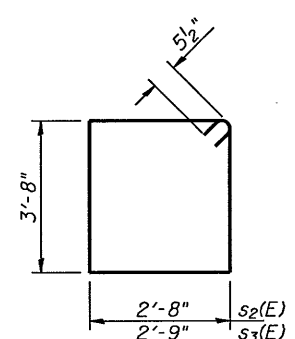


**BARS v1(E)**

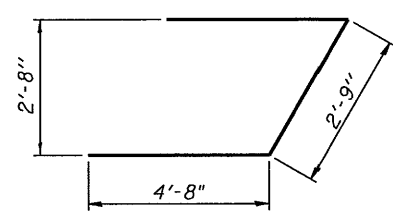


**FIELD CUTTING DIAGRAM**

Order v2(E) & v3(E) full length. Cut as shown and use remainder of bars in opposite face.



**BARS s2(E) & s3(E)**



**BAR u(E)**

For details of Bar Splicers, see sheet S-21.  
 For details of piles, see sheet S-20. Cost for metal shell reinforcement is included in pay item Furnishing Metal Shell Piles, 14" x 0.250".

COMPANY NAME: HR GREEN, INC.  
 CONTACT: ILLINOIS DEPARTMENT OF TRANSPORTATION  
 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION  
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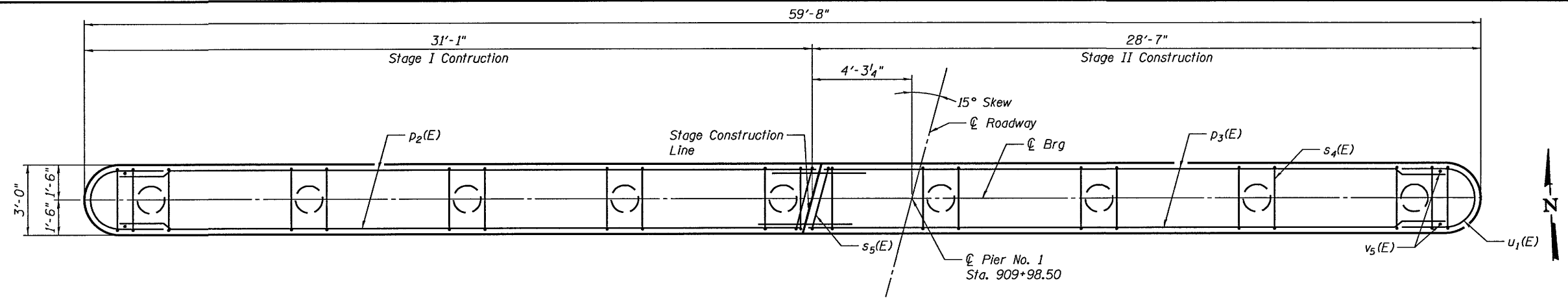


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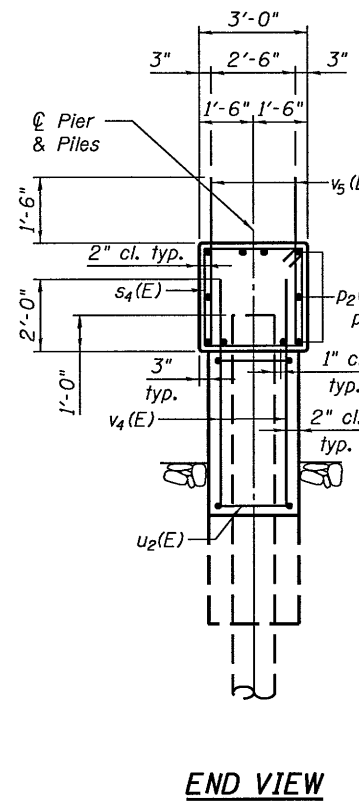
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**NORTH ABUTMENT DETAILS**  
**STRUCTURE NO. 098-0118**  
 SHEET NO. S-16 OF S-23 SHEETS

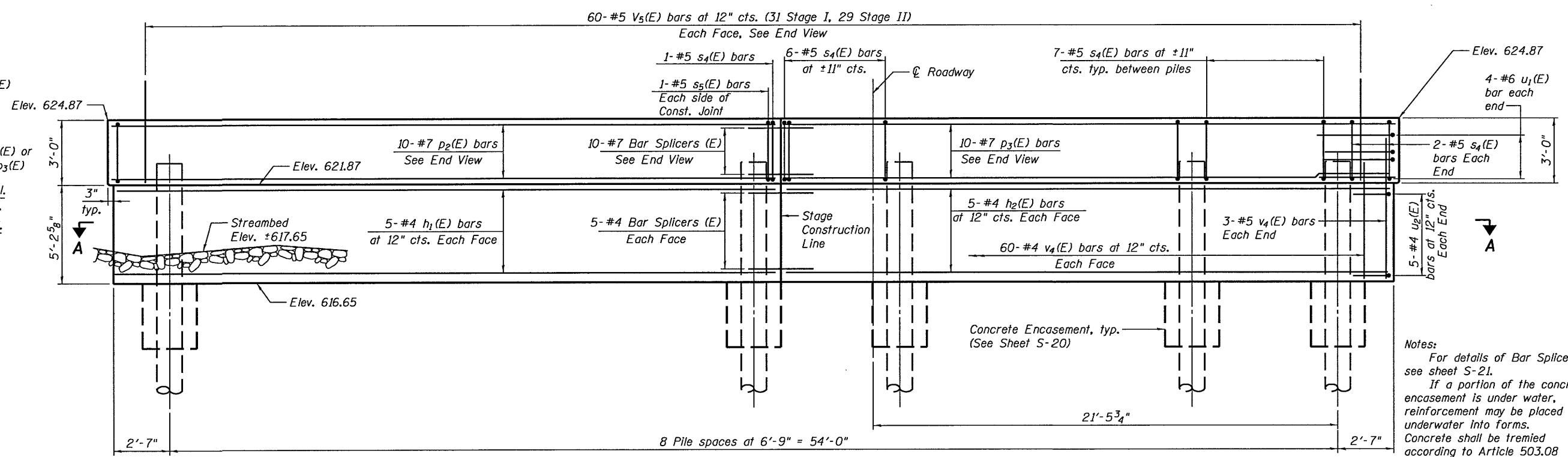
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			CONTRACT NO. 64F19	
ILLINOIS FED. AID PROJECT				



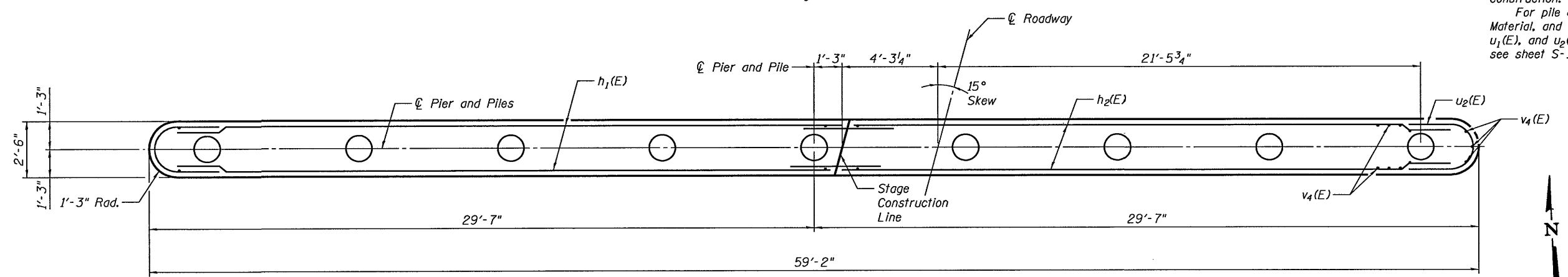
**TOP PLAN**



**END VIEW**



**ELEVATION**  
(Looking North)



**SECTION A-A**

Notes:  
For details of Bar Splicers see sheet S-21.  
If a portion of the concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.  
For pile data, Pier Bill of Material, and for s<sub>4</sub>(E), s<sub>5</sub>(E), u<sub>1</sub>(E), and u<sub>2</sub>(E) bar details, see sheet S-19.

COMPANY NAME: HR GREEN, INC.  
PROJECT CONTACT: KEVIN J BREHM  
CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION  
DATE PLOTTED: 9/13/2012 3:24:47 PM  
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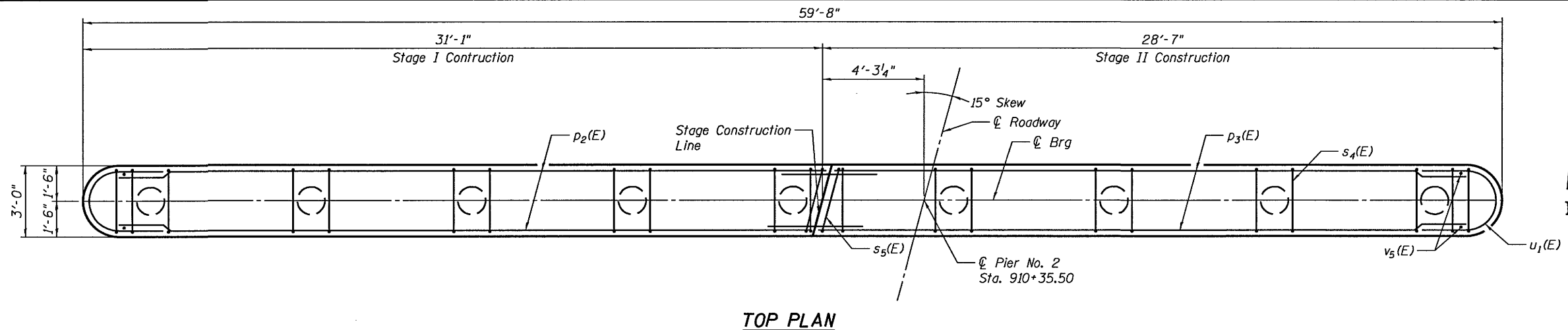
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

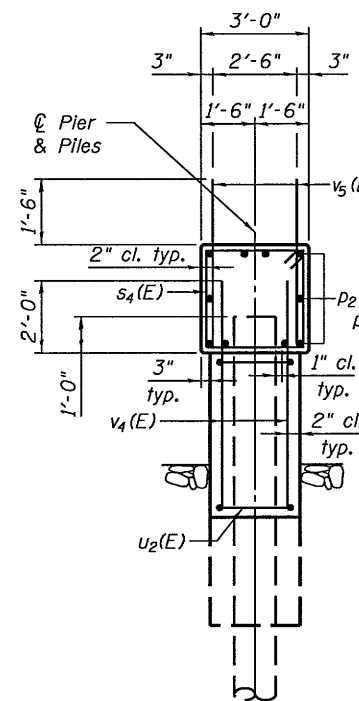
PIER NO. 1 DETAILS  
STRUCTURE NO. 098-0118

SHEET NO. S-17 OF S-23 SHEETS

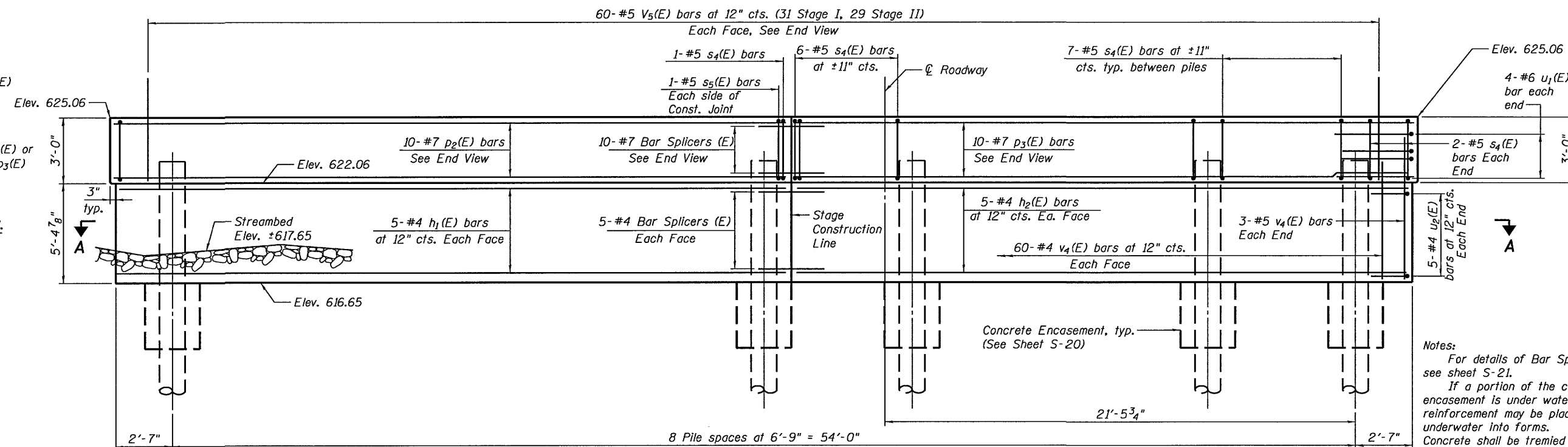
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CONTRACT NO. 64F19				
ILLINOIS FED. AID PROJECT				



**TOP PLAN**

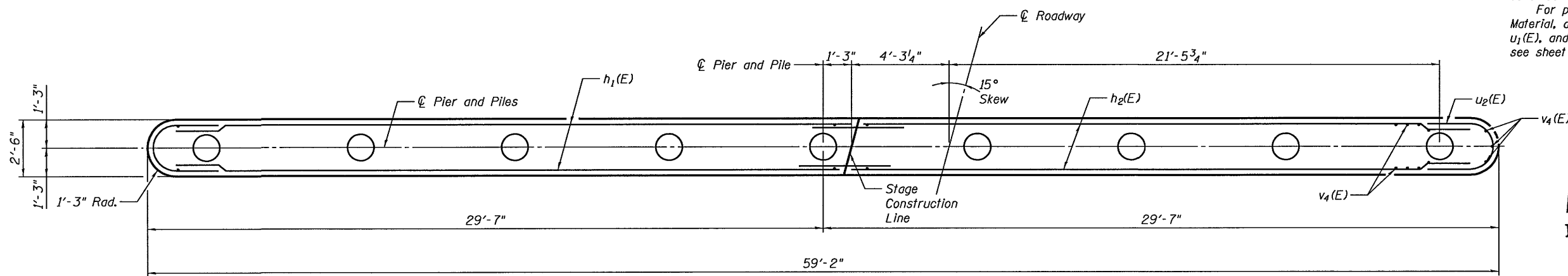


**END VIEW**



**ELEVATION**

(Looking North)



**SECTION A-A**

Notes:  
 For details of Bar Splicers see sheet S-21.  
 If a portion of the concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.  
 For pile data, Pier Bill of Material, and for s4(E), s5(E), u1(E), and u2(E) bar details, see sheet S-19.

COMPANY NAME: HR GREEN, INC.  
 PROJECT CONTACT: KEVIN J BREHM  
 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PIER NO. 2 DETAILS  
 STRUCTURE NO. 098-0118

SHEET NO. 5-18 OF 5-23 SHEETS

F.A.P. RTE. 22	SECTION 15BR-1	COUNTY WHITESIDE	TOTAL SHEETS 146	SHEET NO. 76
CONTRACT NO. 64F19				

ILLINOIS FED. AID PROJECT

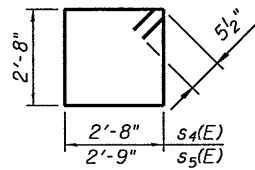


**PIER 1 PILE DATA**

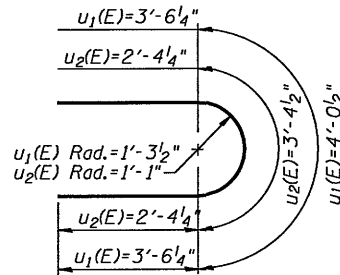
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 Nominal Required Bearings: 318 Kips  
 Factored Resistance Available: 175 Kips  
 Est. Length: 47 Ft.  
 No. Production Piles: 8  
 No. Test Piles: 1

**PIER 2 PILE DATA**

Type and Size: Metal Shell Piles 14" x 0.250"  
 Nominal Required Bearings: 318 Kips  
 Factored Resistance Available: 175 Kips  
 Est. Length: 47 Ft.  
 No. Production Piles: 8  
 No. Test Piles: 1



**BAR s<sub>4</sub>(E) & s<sub>5</sub>(E)**



**BARS u<sub>1</sub>(E) & u<sub>2</sub>(E)**

**MINIMUM BAR LAP**

#4 bar = 2'-4"  
 #6 bar = 3'-6"

**BILL OF MATERIAL  
 PIER 1**

Bar	No.	Size	Length	Shape
h <sub>1</sub> (E)	10	#4	29'-1"	—
h <sub>2</sub> (E)	10	#4	26'-7"	—
p <sub>2</sub> (E)	10	#7	29'-4"	—
p <sub>3</sub> (E)	10	#7	26'-10"	—
s <sub>4</sub> (E)	60	#5	11'-7"	□
s <sub>5</sub> (E)	2	#5	11'-9"	□
u <sub>1</sub> (E)	8	#6	11'-1"	⌋
u <sub>2</sub> (E)	10	#4	8'-1"	⌋
v <sub>4</sub> (E)	126	#4	7'-2"	—
v <sub>5</sub> (E)	120	#5	4'-2"	—
Cofferdam Excavation		Cu. Yd.	75	
Cofferdam (Type 1) (Location - 1)		Each	1	
Concrete Structures		Cu. Yd.	48.5	
Concrete Encasement		Cu. Yd.	4.9	
Reinforcement Bars, Epoxy Coated		Pound	3,580	
Furnishing Metal Shell Piles, 14" x 0.250"		Foot	376	
Driving Piles		Foot	376	
Test Pile Metal Shells		Each	1	

**BILL OF MATERIAL  
 PIER 2**

Bar	No.	Size	Length	Shape
h <sub>1</sub> (E)	10	#4	29'-1"	—
h <sub>2</sub> (E)	10	#4	26'-7"	—
p <sub>2</sub> (E)	10	#7	29'-4"	—
p <sub>3</sub> (E)	10	#7	26'-10"	—
s <sub>4</sub> (E)	60	#5	11'-7"	□
s <sub>5</sub> (E)	2	#5	11'-9"	□
u <sub>1</sub> (E)	8	#6	11'-1"	⌋
u <sub>2</sub> (E)	10	#4	8'-1"	⌋
v <sub>4</sub> (E)	126	#4	7'-2"	—
v <sub>5</sub> (E)	120	#5	4'-2"	—
Cofferdam Excavation		Cu. Yd.	105	
Cofferdam (Type 1) (Location - 2)		Each	1	
Concrete Structures		Cu. Yd.	49.5	
Concrete Encasement		Cu. Yd.	4.9	
Reinforcement Bars, Epoxy Coated		Pound	3,580	
Furnishing Metal Shell Piles, 14" x 0.250"		Foot	376	
Driving Piles		Foot	376	
Test Pile Metal Shells		Each	1	

Notes:  
 For details of pile and Concrete Encasement,  
 see Sheet S-20.  
 See "Cofferdam (Type 1)" special provision.

HR GREEN, INC.  
 KEVIN J BRENN  
 ILLINOIS DEPARTMENT OF TRANSPORTATION  
 PROJECT CONTACT  
 CLIENT: OTTEDI  
 FILE NAME: 0909116-01B-019-Pile.dgn  
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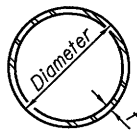
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	CHECKED - KJB	REVISED
PLOT SCALE =	DRAWN - WJH	REVISED
PLOT DATE =	CHECKED - KJB	REVISED

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PIER DETAILS  
 STRUCTURE NO. 098-0118

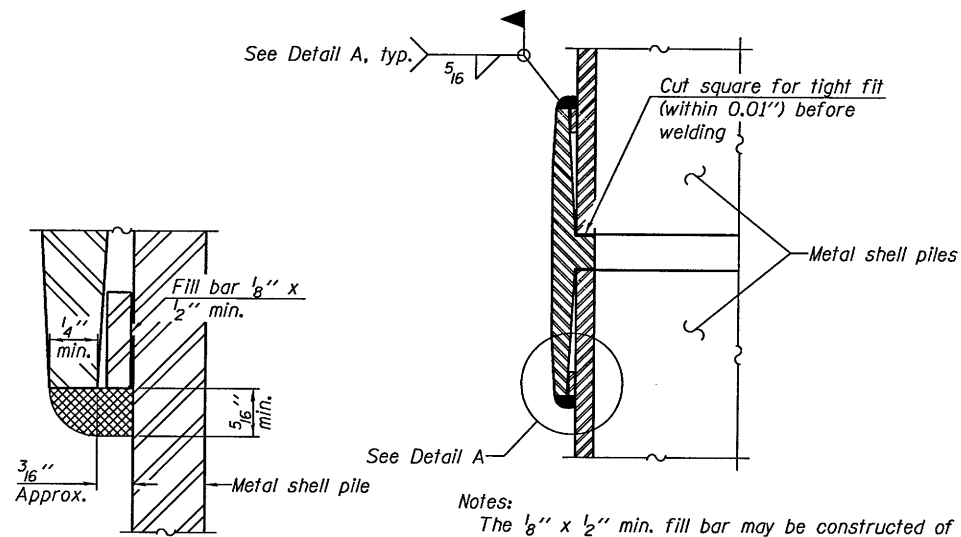
SHEET NO. S-19 OF S-23 SHEETS

F.A.P. RTE. 22	SECTION 15BR-1	COUNTY WHITESIDE	TOTAL SHEETS 146	SHEET NO. 77
ILLINOIS FED. AID PROJECT CONTRACT NO. 64F19				



**METAL SHELL PILE TABLE**

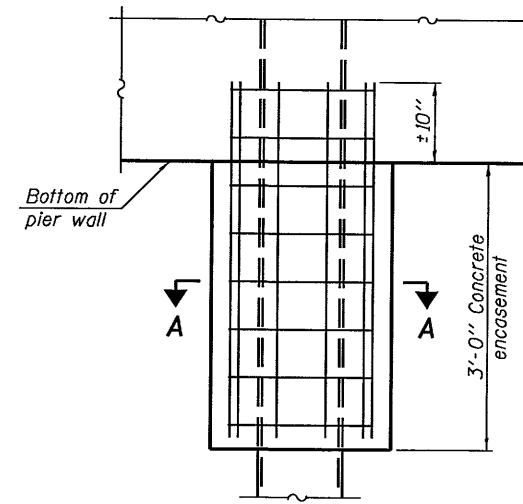
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. <sup>3</sup> /ft.)
PP12	0.179"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361



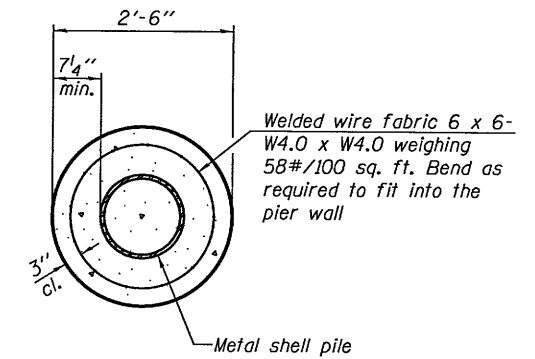
**DETAIL A**

Notes:  
 The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.  
 Pile segments shall be driven to solid contact with splicer before welding.

**WELDED COMMERCIAL SPLICE**



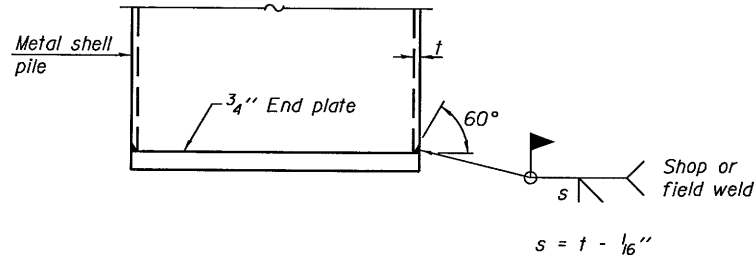
**ELEVATION**



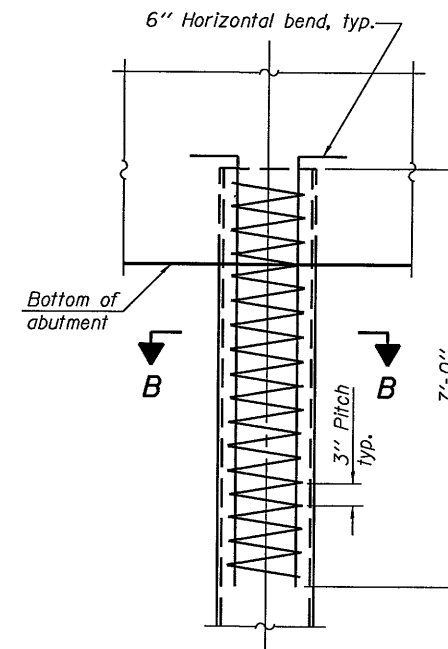
**SECTION A-A**

Note:  
 Forms for encasement may be omitted when soil conditions permit.

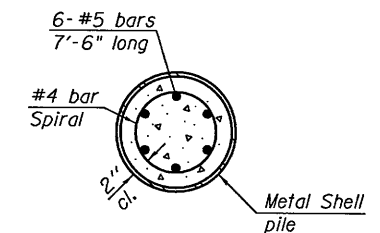
**CONCRETE ENCASEMENT AT PIERS**



**END PLATE ATTACHMENT**

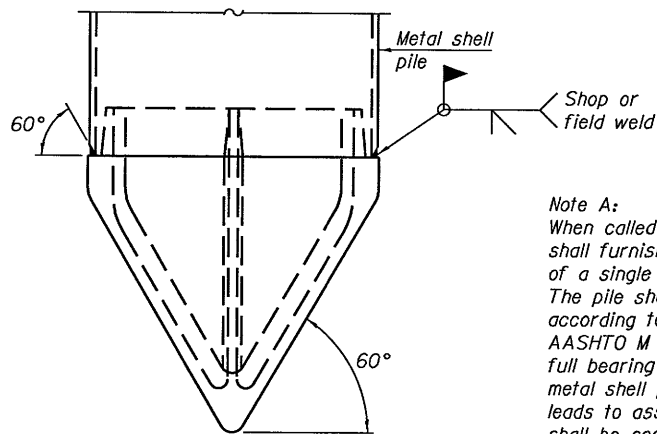


**ELEVATION**



**SECTION B-B**

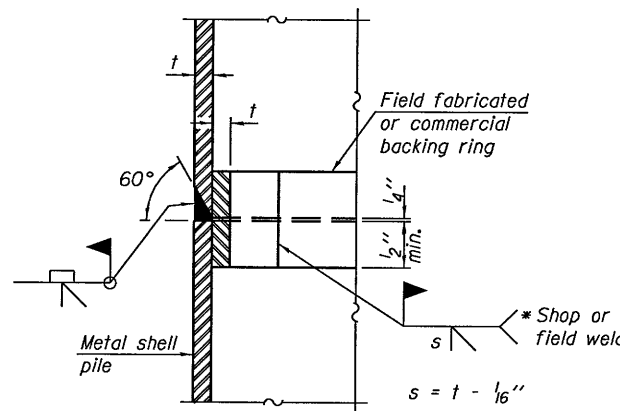
**METAL SHELL REINFORCEMENT AT ABUTMENTS**



**METAL SHELL PILE SHOE ATTACHMENT**

(See Note A)

Note A:  
 When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld.



**COMPLETE PENETRATION WELD SPLICE**

\* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.

Note:  
 The metal shell piles shall be according to ASTM A 252 Grade 3.

COMPANY NAME: HR GREEN, INC.  
 PROJECT CONTACT: KEVIN J BREHM  
 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DATE PLOTTED: 9/13/2012 3:24:53 PM  
 FILE NAME: 098018-64F19-020-S20-MSP.dgn  
 PLOT DRIVER: pdf\_drv\_no\_level.ctb  
 PEN TABLE: Illinois\_half.tbl

F-MS

7-1-10



USER NAME =	DESIGNED - MGH	REVISED
PLOT SCALE =	CHECKED - KJB	REVISED
PLOT DATE =	DRAWN - WJH	REVISED
	CHECKED - KJB	REVISED

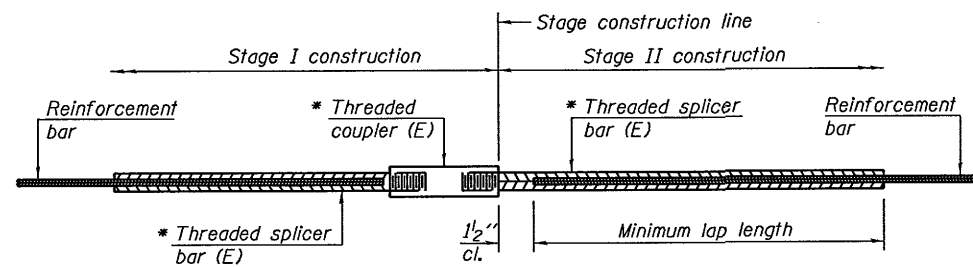
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

METAL SHELL PILE DETAILS  
 STRUCTURE NO. 098-0118

SHEET NO. S-20 OF S-23 SHEETS

F.A.P. RTE. 22	SECTION 15BR-1	COUNTY WHITESIDE	TOTAL SHEETS 146	SHEET NO. 78
			CONTRACT NO. 64F19	

ILLINOIS FED. AID PROJECT



**STANDARD BAR SPLICER ASSEMBLY**

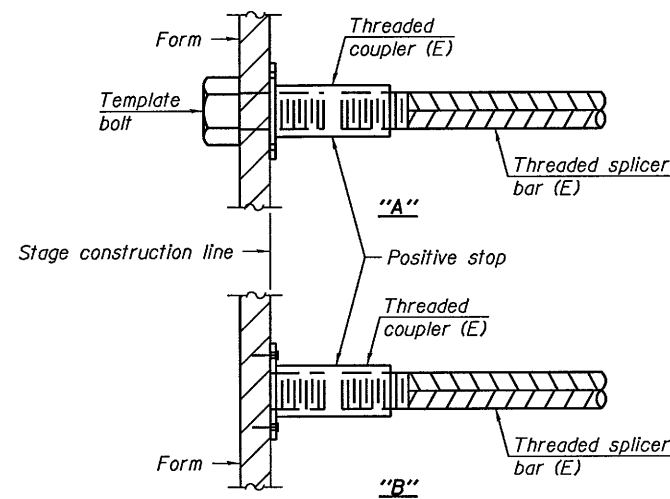
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Top bar lap, Class B

Threaded splicer bar length = min. lap length + 1/2" + thread length

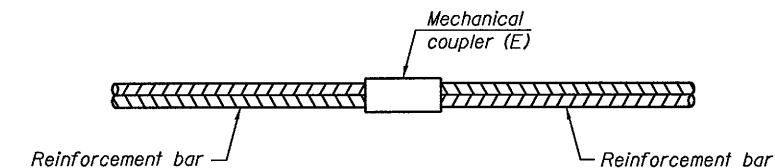
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Superstructure	#5	174	Table 5
Approach Slabs	#5	172	Table 5
Approach Slabs	#4	50	Table 5
S. Abut.	#7	10	Table 5
N. Abut.	#7	10	Table 5
Pier 1	#4	10	Table 5
Pier 1	#7	10	Table 5
Pier 2	#4	10	Table 5
Pier 2	#7	10	Table 5



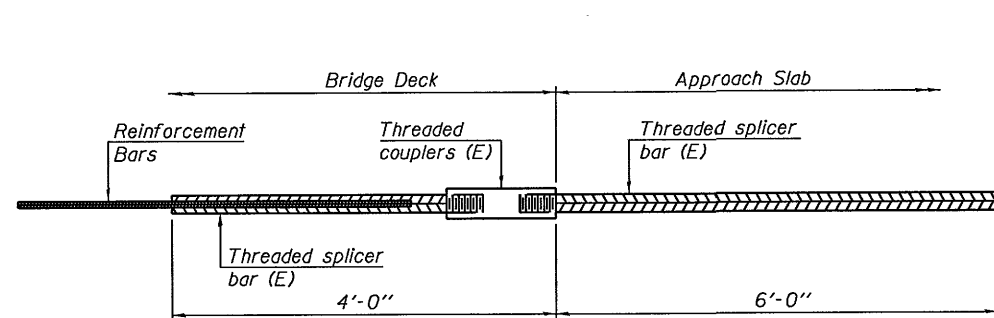
**INSTALLATION AND SETTING METHODS**

- "A" : Set bar splicer assembly by means of a template bolt.
- "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
- (E) : Indicates epoxy coating.



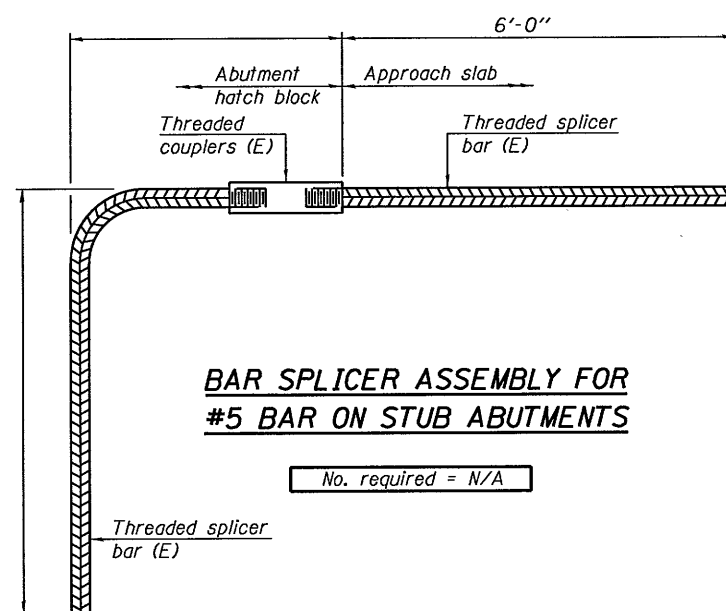
**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required
N/A	N/A	N/A



**BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

No. required = N/A



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required = N/A

**NOTES**

- Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
- All reinforcement shall be lapped and tied to the splicer bars.
- Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
- See approved list of bar splicer assemblies and mechanical splicers for alternatives.

COMPANY NAME: HR GREEN, INC.  
 PROJECT CONTACT: KEVIN J BREHM  
 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DATE PLOTTED: 9/13/2012 2:24:55 PM  
 FILE: 09810-01-01-155R-001.dgn  
 PLOT DRIVER: c:\windows\system32\cmd.exe  
 PEN TABLE: illinois.tbl

BSD-1

7-1-10



HRGreen.com  
 Illinois Professional Design Firm  
 #184-001322

USER NAME =	DESIGNED - MGH	REVISED
	CHECKED - KJB	REVISED
PLOT SCALE =	DRAWN - WJH	REVISED
PLOT DATE =	CHECKED - KJB	REVISED

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
 STRUCTURE NO. 098-0118

SHEET NO. 5-21 OF 5-23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	15BR-1	WHITESIDE	146	79
				CONTRACT NO. 64F19
ILLINOIS FED. AID PROJECT				





Illinois Department of Transportation  
Division of Highways  
Illinois Department of Transportation/D-2

### SOIL BORING LOG

Page 1 of 2

Date 7/28/09

ROUTE FAP 22 DESCRIPTION P92-082-09 IL 78 Bridge over French Creek, 500' N. of French Creek Road LOGGED BY W. Garza  
SECTION 15 BR-1 LOCATION Mt. Pleasant Twp. - 19NE, SEC., TWP. 21N. RNG. 5E  
COUNTY Whiteside DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diederich Automatic

STRUCT. NO.	Station	DEPTH	BLOW	UCS	MOIST	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.	First Encounter	Upon Completion	After	DEPTH	BLOW	UCS	MOIST
098-0118	910+03	(ft)	(/6")	(tsf)	(%)	ft	ft	ft	ft	ft	ft	(ft)	(/6")	(tsf)	(%)
						619.30	618.30	613.3	613.3	Wash					
MEDIUM dark brown SILTY CLAY LOAM				0.6 P	19.0										
MEDIUM gray dirty SAND	623.30		5		15.0										
	621.80		9												
MEDIUM dark gray SILTY CLAY LOAM				0.6 P	31.0										
	619.30		5												
SOFT gray SILTY CLAY LOAM				0.4 B	36.0										
	616.80		2												
MEDIUM gray SILTY LOAM				0.5 B	26.0										
	613.80		2												
VERY LOOSE gray fine SAND															
	611.80		1												
LOOSE gray fine SAND															
	609.30		5												
DENSE gray clean medium coarse SAND															
	606.80		20												

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation  
Division of Highways  
Illinois Department of Transportation/D-2

### SOIL BORING LOG

Page 2 of 2

Date 7/28/09

ROUTE FAP 22 DESCRIPTION P92-082-09 IL 78 Bridge over French Creek, 500' N. of French Creek Road LOGGED BY W. Garza  
SECTION 15 BR-1 LOCATION Mt. Pleasant Twp. - 19NE, SEC., TWP. 21N. RNG. 5E  
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STRUCT. NO.	Station	DEPTH	BLOW	UCS	MOIST	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.	First Encounter	Upon Completion	After	DEPTH	BLOW	UCS	MOIST
098-0118	910+03	(ft)	(/6")	(tsf)	(%)	ft	ft	ft	ft	ft	ft	(ft)	(/6")	(tsf)	(%)
						619.30	618.30	613.3	613.3	Wash					
SOFT gray SILTY LOAM															
	584.30		4	0.3 P											
MEDIUM gray SILTY CLAY				0.5 P	30.0										
	581.80		2												
SOFT gray SILTY LOAM				0.3 B	32.0										
	579.30		3												
MEDIUM gray SILTY CLAY with SAND lens				0.6 B	30.0										
	578.30		11												
MEDIUM gray SANDY GRAVEL															
	574.30		11												
DENSE gray SANDY GRAVEL															
	571.80		28												
Wash VERY DENSE gray SANDY GRAVEL															
	569.30		54												
	566.80														

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

COMPANY NAME: HR GREEN, INC.  
PROJECT CONTACT: KEVIN J BREHM  
ILLINOIS DEPARTMENT OF TRANSPORTATION  
DATE PLOTTED: 9/13/2012 3:25:05 PM  
FILE NAME: P92-082-09-15BR-1-023-523-58.dgn  
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PEN TABLE: jillm02s.ctb



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CHECKED - KJB	CHECKED - KJB	REVISED
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CHECKED - KJB	CHECKED - KJB	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS  
STRUCTURE NO. 098-0118

SHEET NO. 5-23 OF 5-23 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	15BR-1	WHITESIDE	146	81
			CONTRACT NO. 64F19	
ILLINOIS FED. AID PROJECT				



B.M. Spike Washer in roof of 30" Maple RT Rt Sta 8+33 El. 183.67  
 Existing Structure 50' R.C. Thru Girder - 15' Roadway  
 R.C. Closed Abuts. Contractor shall remove Existing  
 Structure. No Salvage. Broken Concrete shall be disposed  
 of by Bridge Contractor as directed by the Engineer.

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
 DIVISION OF HIGHWAYS

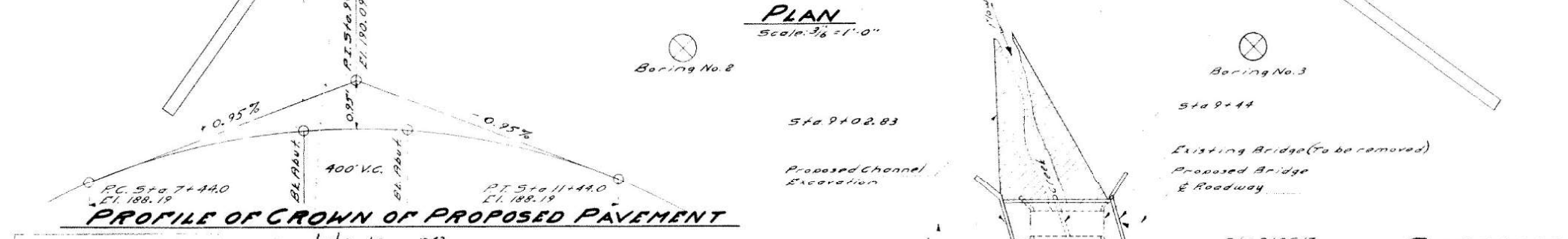
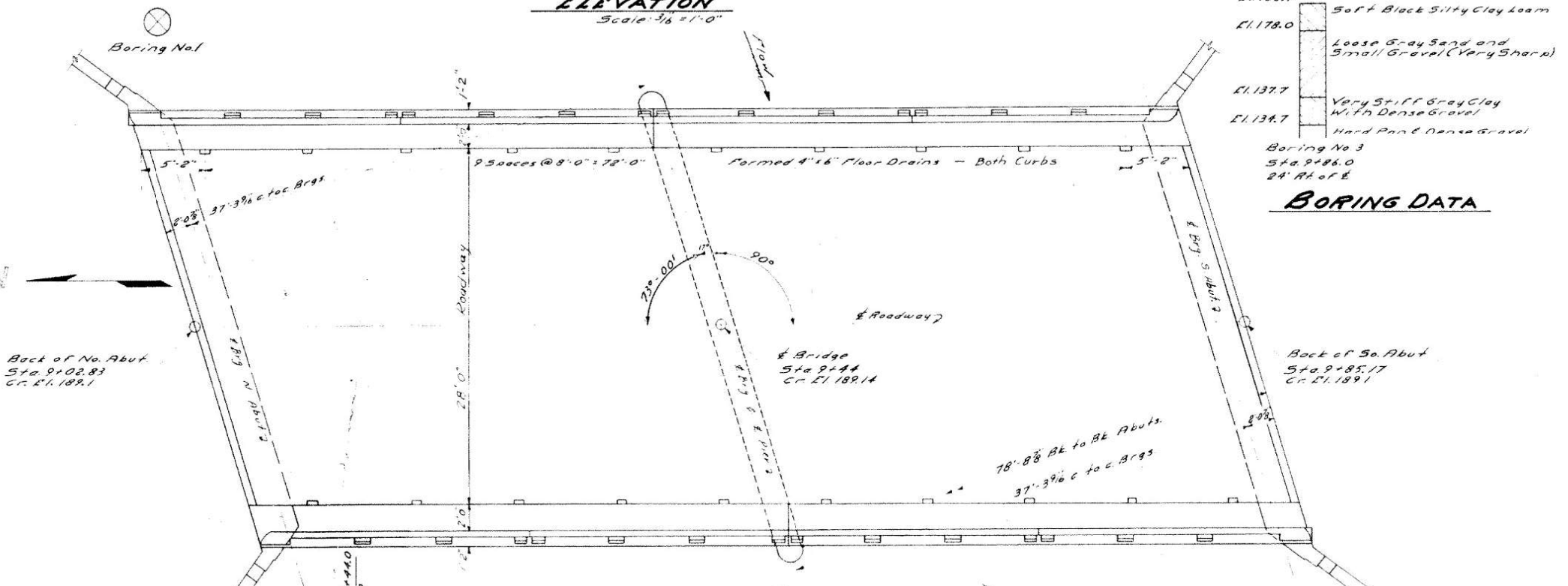
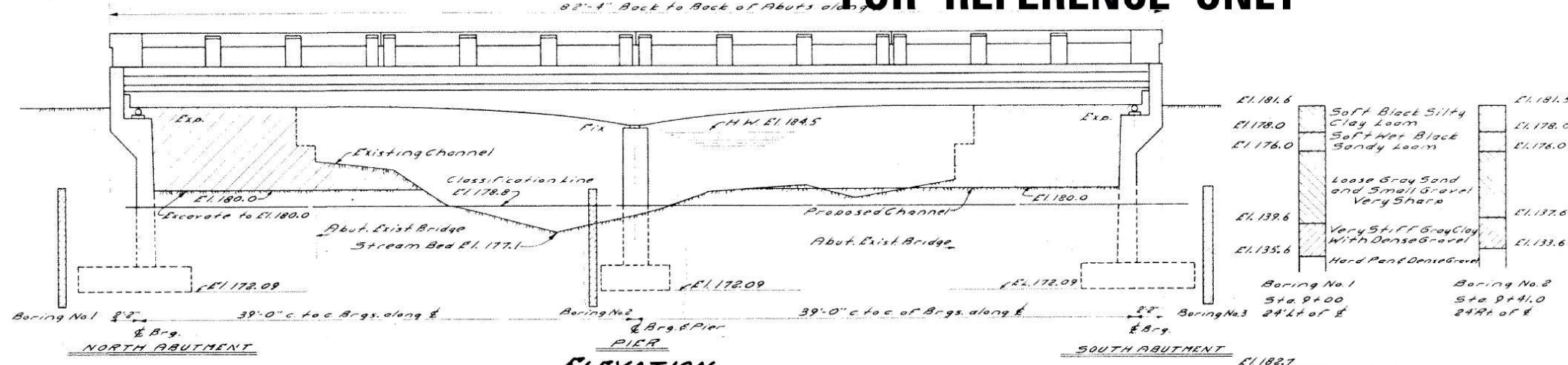
**FOR REFERENCE ONLY**

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5BR	Whiteside	27	18	8

SHEET NO. 1  
 8 SHEETS

**GENERAL NOTES**

Class X Concrete shall be used thruout except as noted.  
 Handrail Concrete shall be used in rails and posts.  
 Concrete Floor Slab and Girders shall be poured in one  
 continuous operation between joints.  
 The concrete Floor Slab shall be finished in accordance  
 with Art. 34.18(0) of the Standard Specifications.  
 Handrails shall not be poured until after  
 the falsework has been removed.  
 All Rollers, Bearing Plates, Lead Plates and Anchor Bolts  
 shall be fabricated and set in accordance with Art. 34.14  
 of the Standard Specifications and are included for payment  
 as Structural Steel.  
 All Structural Steel shall receive one shop coat of red  
 lead paint and two field coats of aluminum paint  
 to top of railing. This shall be done in accordance with  
 Art. 51.20 of the Standard Specifications.  
 Structural Steel shall be inspected by Illinois Division  
 of Highways before painting.  
 Backfilling shall be done according to Art. 50.10 of the  
 Standard Specifications.  
 Boring Logs are shown on the plans only as a guide to  
 bidders in estimating soil conditions which may be  
 encountered in the work.  
 The backs of Abutments and Wing Walls shall be water-  
 proofed from top of parapet and top of wall respectively  
 to top of footing. This shall be done in accordance with  
 Art. 51.20 of the Standard Specifications.  
 The Contractor shall excavate the channel to the lines  
 and grades as shown on the plans and as directed by the  
 Engineer. Suitable material therefrom may be placed  
 in approach fill as directed by the Engineer. Estimated  
 quantity of 391 cubic yards shown on bridge plans is for  
 a distance of 35 ft left and right of centerline.



DESIGNED: Joseph J. Rimsay  
 CHECKED: Jack High  
 DRAWN: J.D.N. C. Pulley  
 CHECKED: J.J. Rimsay

EXAMINED: W.E. Hanson  
 PASSED: [Signature]  
 APPROVED: [Signature]

July 10 1953

**WATERWAY INFORMATION**  
 Drainage Area: 7100 Acres  
 Character: Rolling, Wooded, Cultivated  
 Present Bridge Opening: 255' ±  
 Proposed Bridge Opening: 350' ±



**STRESSES**  
 Super:  $f_c = 20000 \text{ psi}$   
 $f_s = 14000 \text{ psi}$   
 Sub:  $f_c = 20000 \text{ psi}$   
 $f_s = 8000 \text{ psi}$   
 $n = 10$

**GENERAL PLAN & ELEVATION  
 FRENCH CREEK  
 S.B.I. RT. 3 (P.A. RT. 4) SEC. 15-BR  
 WHITESIDE COUNTY  
 STATION 9+44**

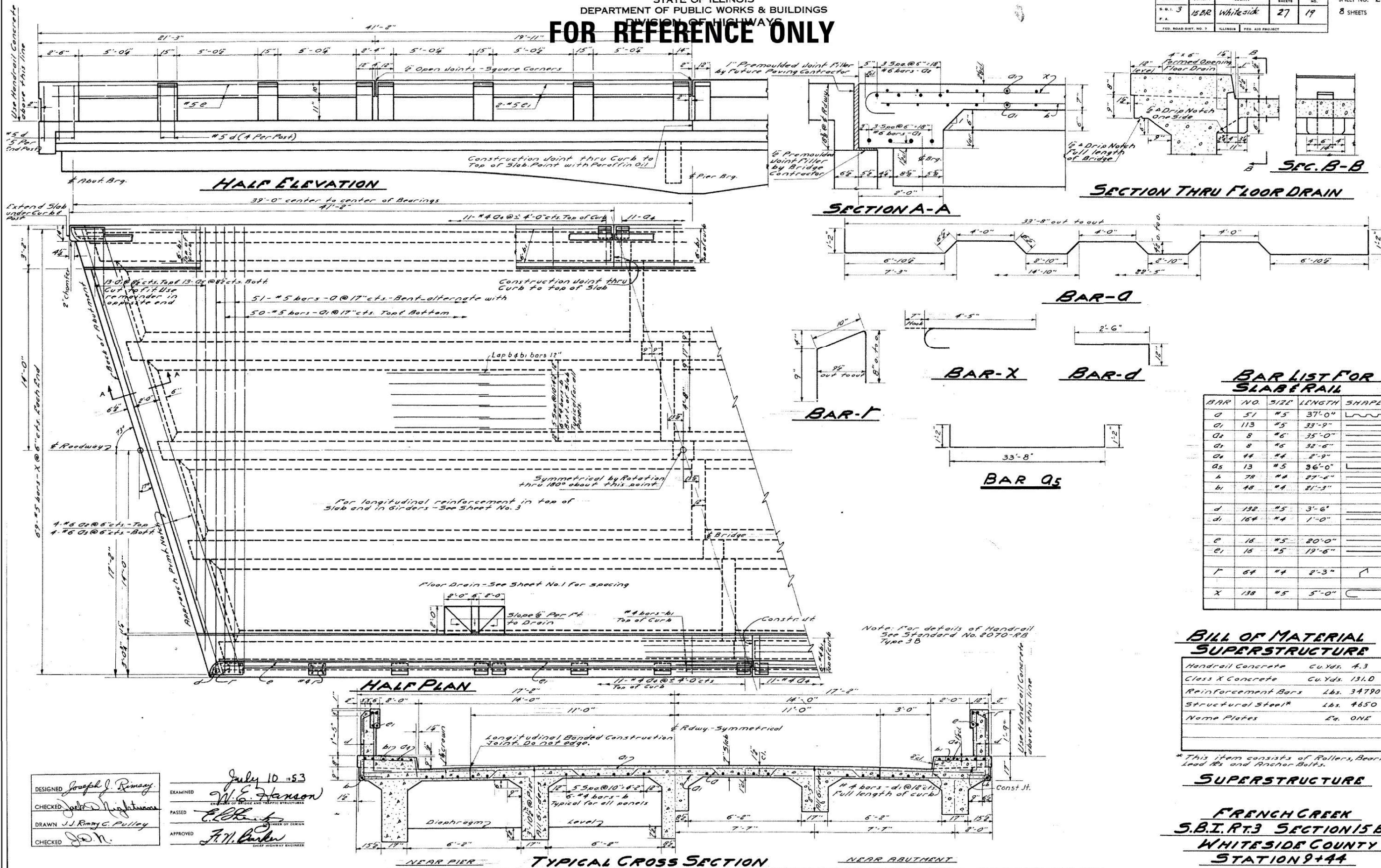
**TOTAL BILL OF MATERIAL**

ITEM	SUPER	ABUTS.	PIER	TOTAL
Class X Concrete Cu.Yds.	131.0	182.9	46.7	360.6
Handrail Concrete Cu.Yds.	4.3			4.3
Reinforcement Bars Lbs.	34790	11970	2490	49250
Structural Steel Lbs.	4650			4650
Name Plates Ea.	1			1
Class A Excavation Cu.Yds. For Structures		333		333
Class B Excavation Cu.Yds. For Structures		470	93	563
Channel Excavation Cu.Yds.				391
Removal of Exst Struct Ea.				1
Temporary Bridge Complete Ea.				1
Untreated Piles (2 7/8" dia) ft		2150	500	2650
Test Piles Ea.		2	1	3
Metal Shoes Ea.		210	26	236



**FOR REFERENCE ONLY**

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. 3	15BR	Whiteside	27	19
F.A.				
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



DESIGNED *Joseph J. Ramsey*  
CHECKED *John D. Nightingale*  
DRAWN *J.J. Ramsey, C. Pulley*  
CHECKED *J.D.N.*

EXAMINED *W.E. Hanson*  
PASSED *[Signature]*  
APPROVED *J.H. Carlen*

July 10 1953







**FOR REFERENCE ONLY**

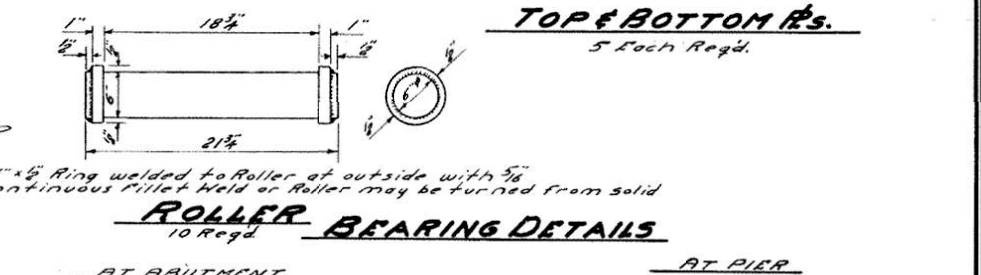
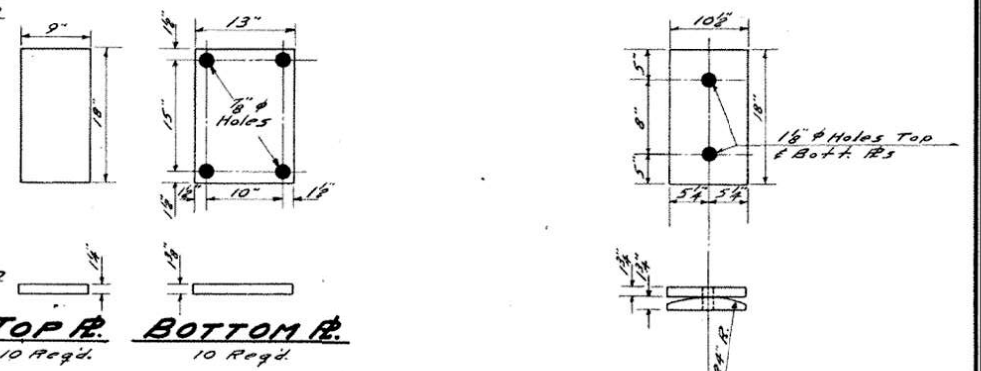
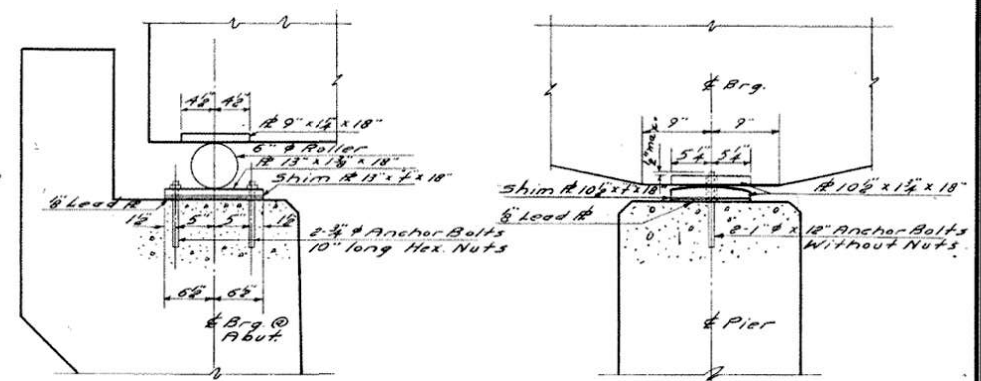
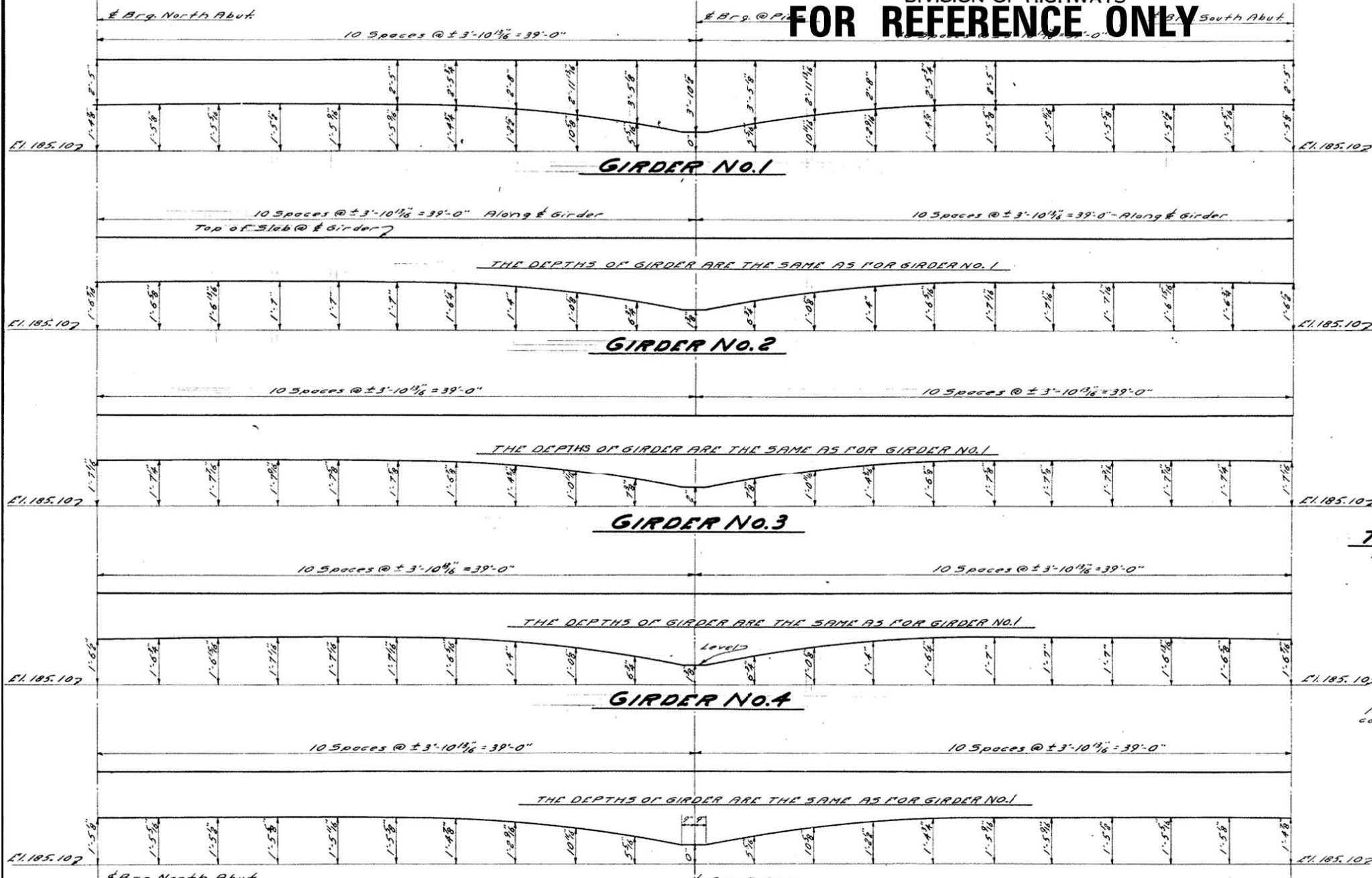
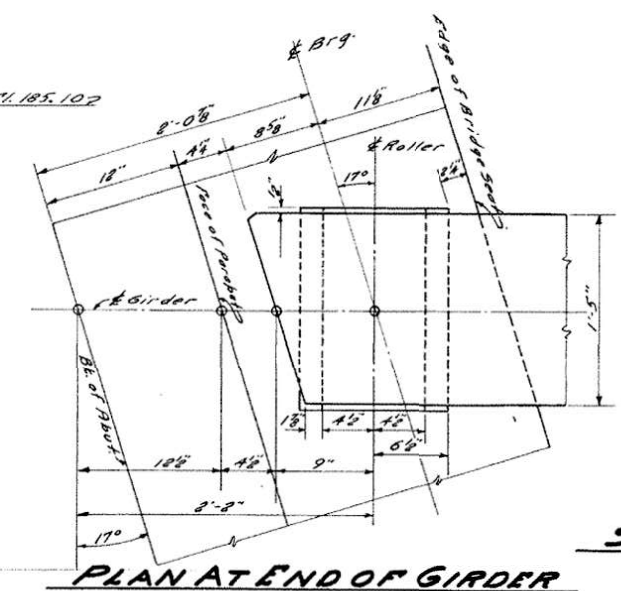


Table of 7" Dimensions for Shim

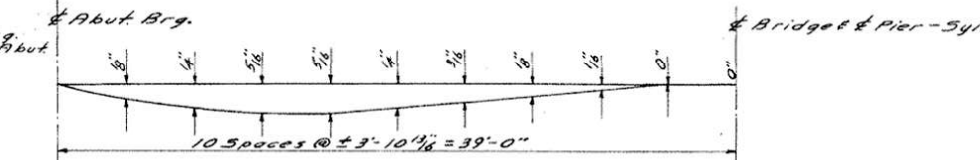
Girder No.	1	2	3	4	5
North Abut	0"	0"	5/8"	5/8"	1/4"
Pier	0"	0"	1/2"	0"	0"
South Abut	1/4"	5/8"	5/8"	0"	0"



**FRENCH CREEK**  
**S.B.I.R.T.3 SEC. 15 BR**  
**WHITESIDE COUNTY**  
**STATION 9+44**

**ELEVATIONS OF GIRDERS SHOWING DIMENSIONS**

Allowance for D.L. Deflection is included in the ordinates to the Girders. In addition, Contractor shall make allowance for settlement of forms and shrinkage of concrete.



**D.L. DEFLECTION DIAGRAM**

Note: The D.L. Deflection Diagram is given as a matter of record only. Allowance for D.L. Deflection is included in the ordinates to the Girders shown above.

**LAYOUT**

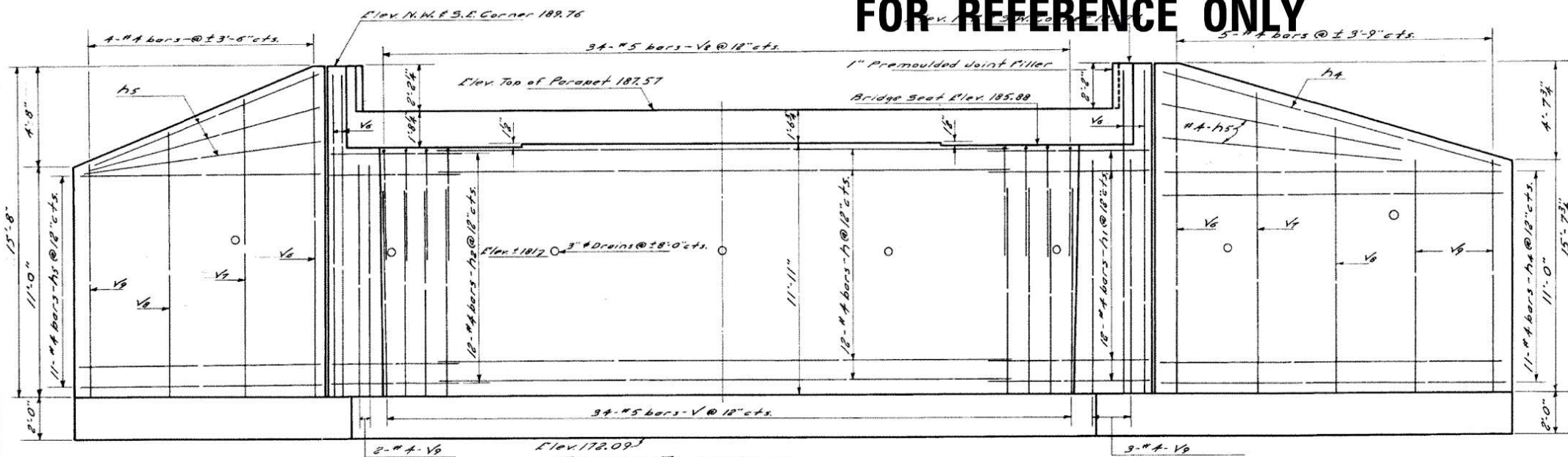
DESIGNED *Joseph J. Rimsey*  
CHECKED *Jack D. Lightman*  
DRAWN *J.D.N. G. Puiley*  
CHECKED *J.J. Rimsey*

EXAMINED *W.E. Hanson*  
PASSED *[Signature]*  
APPROVED *H.N. Parker*

July 10 1953  
ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES  
CHIEF HIGHWAY ENGINEER

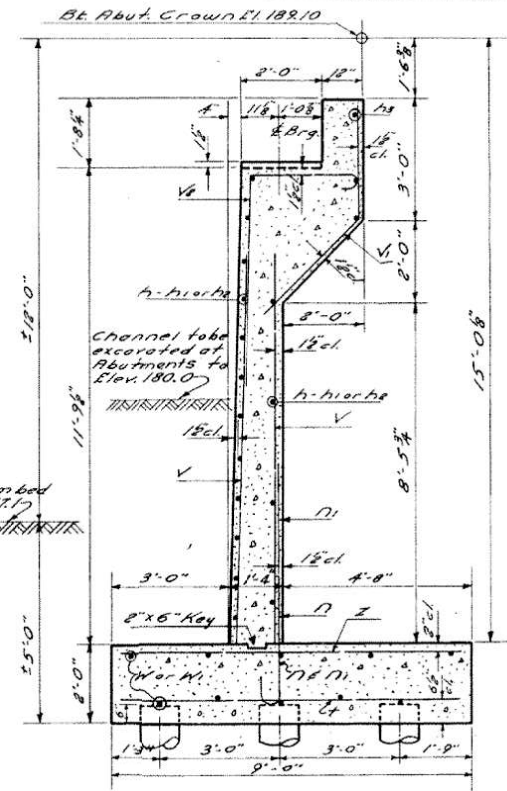


**FOR REFERENCE ONLY**



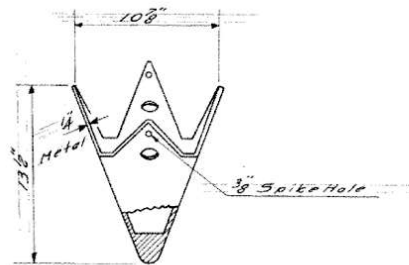
**FRONT ELEVATION**

SHOWING REINFORCEMENT IN FRONT FACE OF ABUTTS. & WINGS

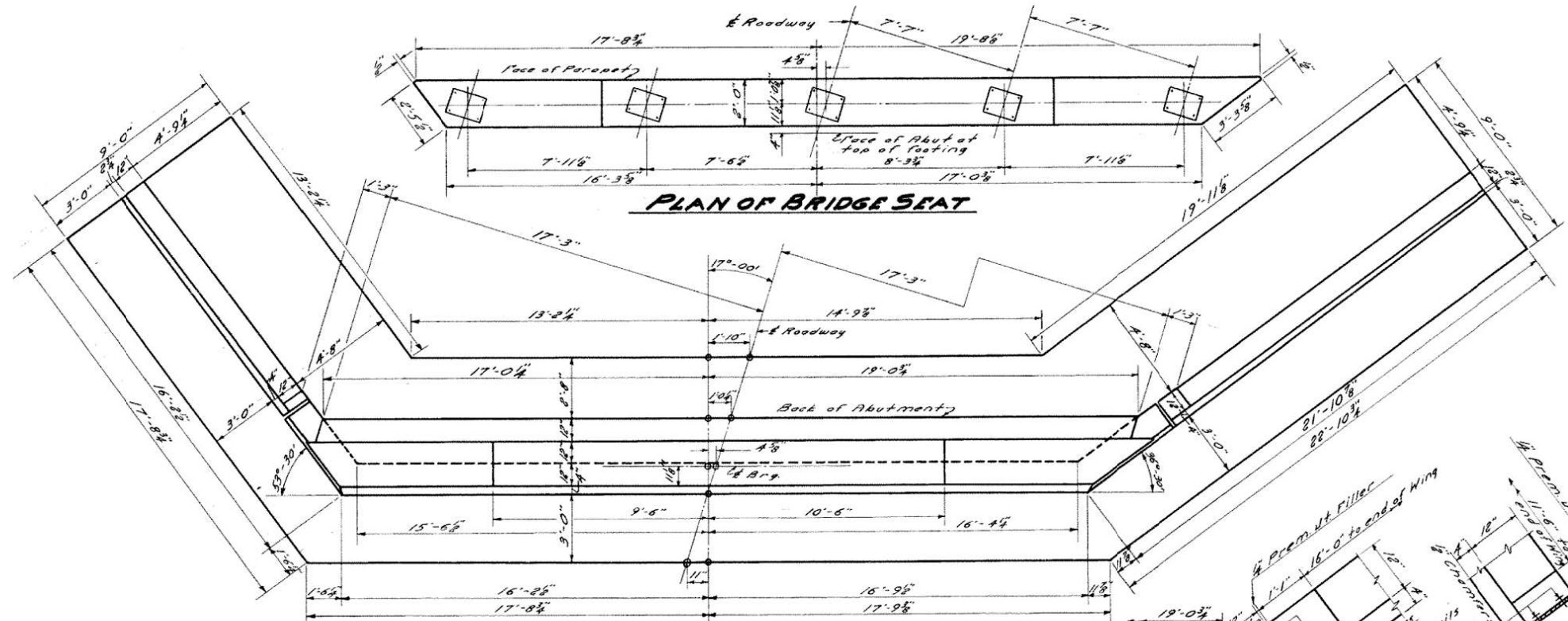


**SECTION THRU ABUTMENT**

See Sh. 6 for Bill of Material.

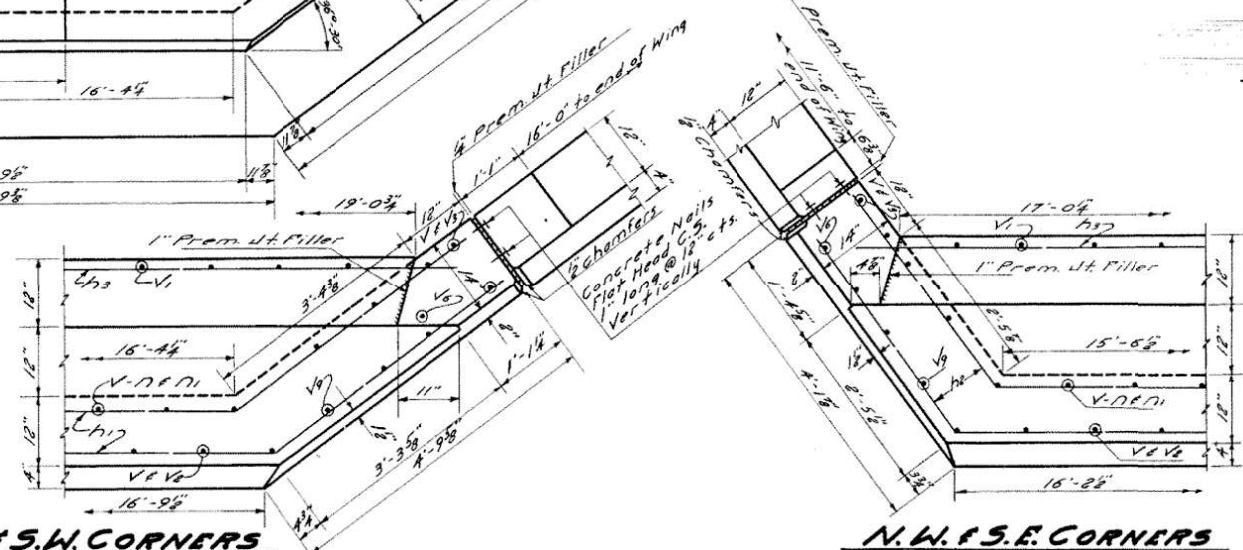


**METAL PILE SHOE**



**PLAN OF BRIDGE SEAT**

**PLAN**



**N.E. & S.W. CORNERS**

**N.W. & S.E. CORNERS**

DESIGNED *Joseph J. Ramsey*  
CHECKED *Jackie R. Kightman*  
DRAWN *J.J. Ramsey C. Pulley*  
CHECKED *J.O.N.*

EXAMINED *W.E. Hanson*  
PASSED *E. Hart*  
APPROVED *F.N. Barker*

July 10 1953

**FRENCH CREEK**  
**S.B.I. RT. 3 (P.A. RT. 4) SEC. 15 BR**  
**WHITESIDE COUNTY**  
**STATION 9+44**

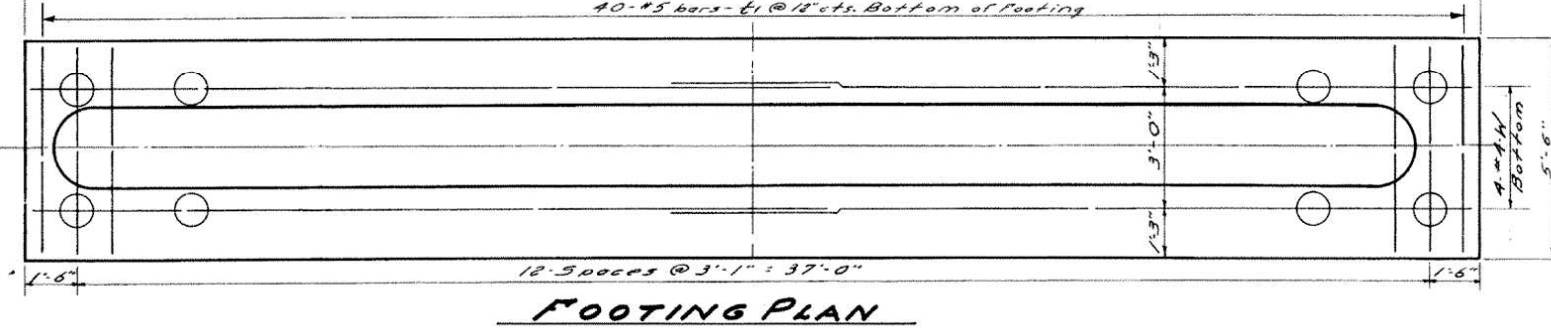
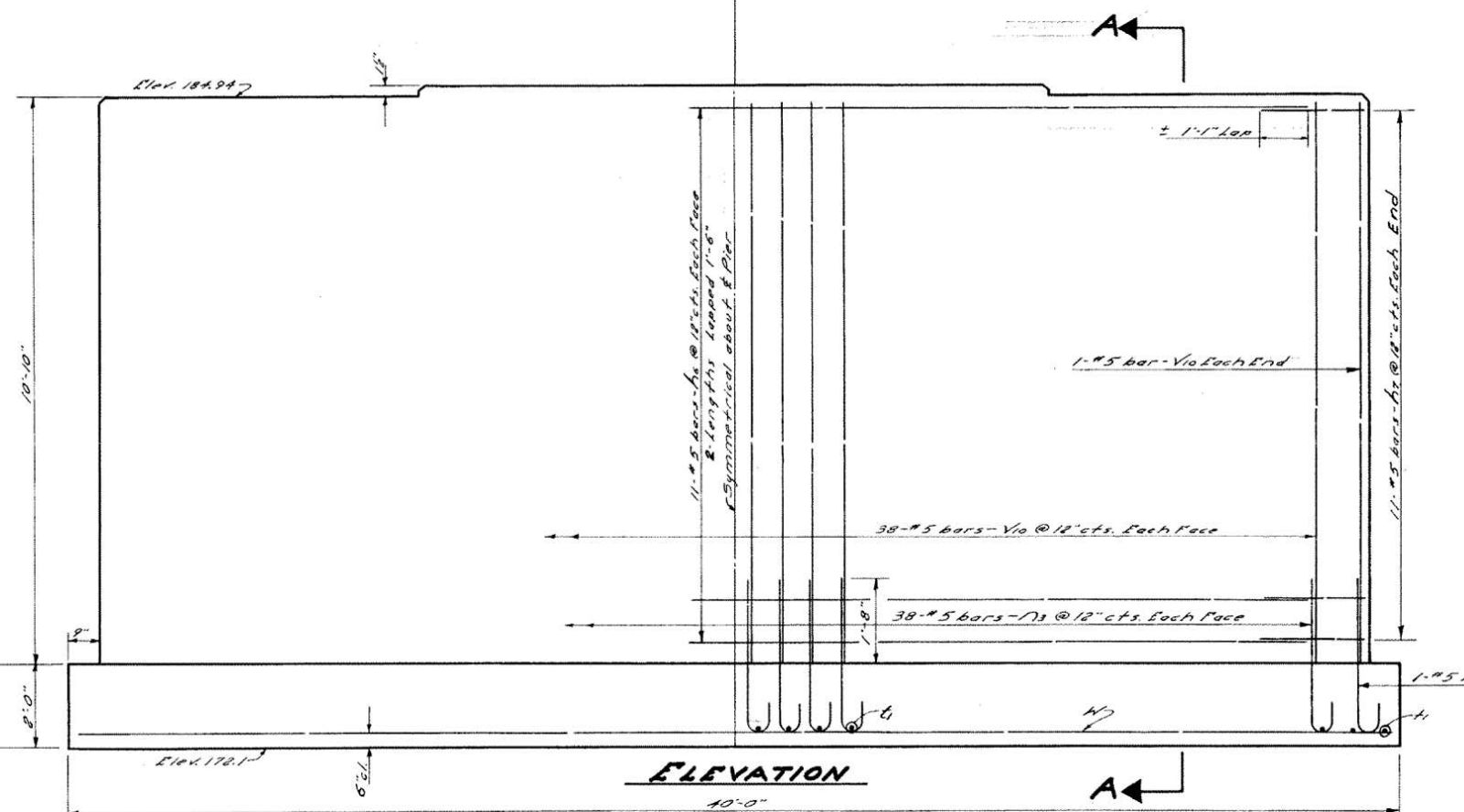
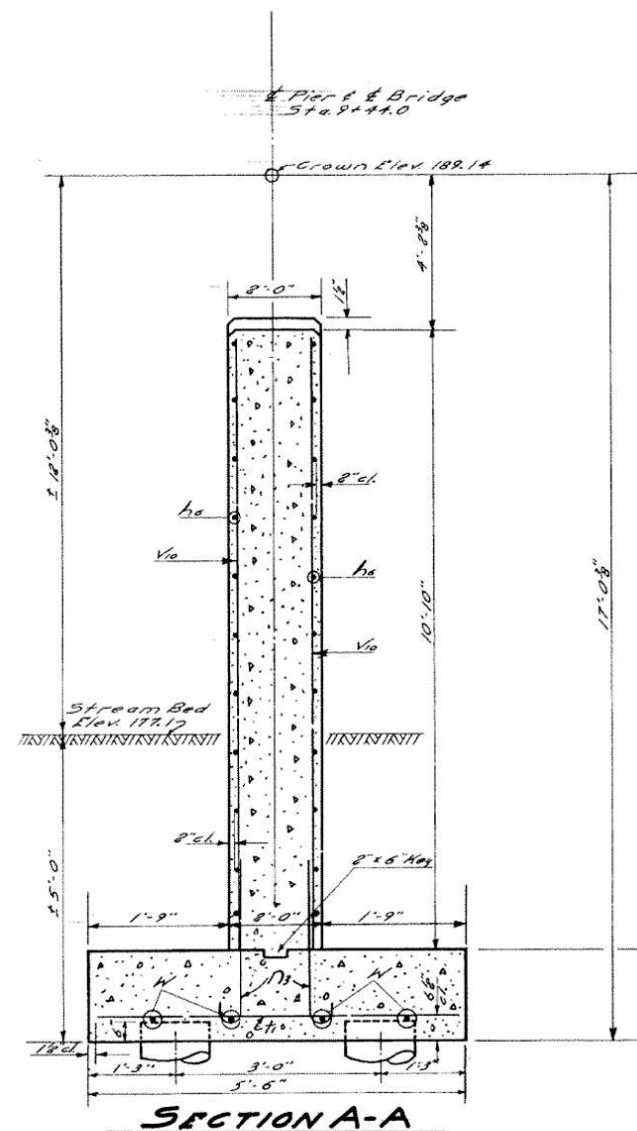
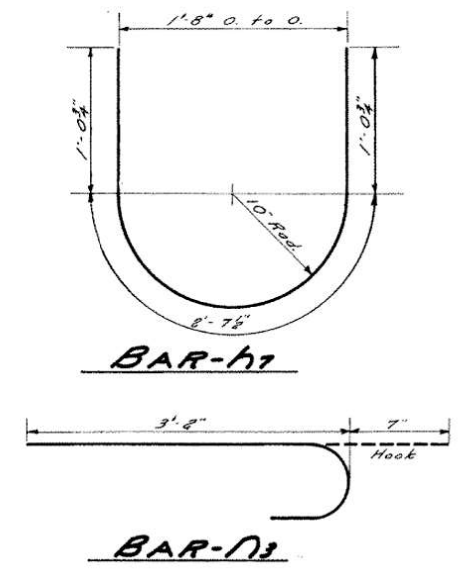
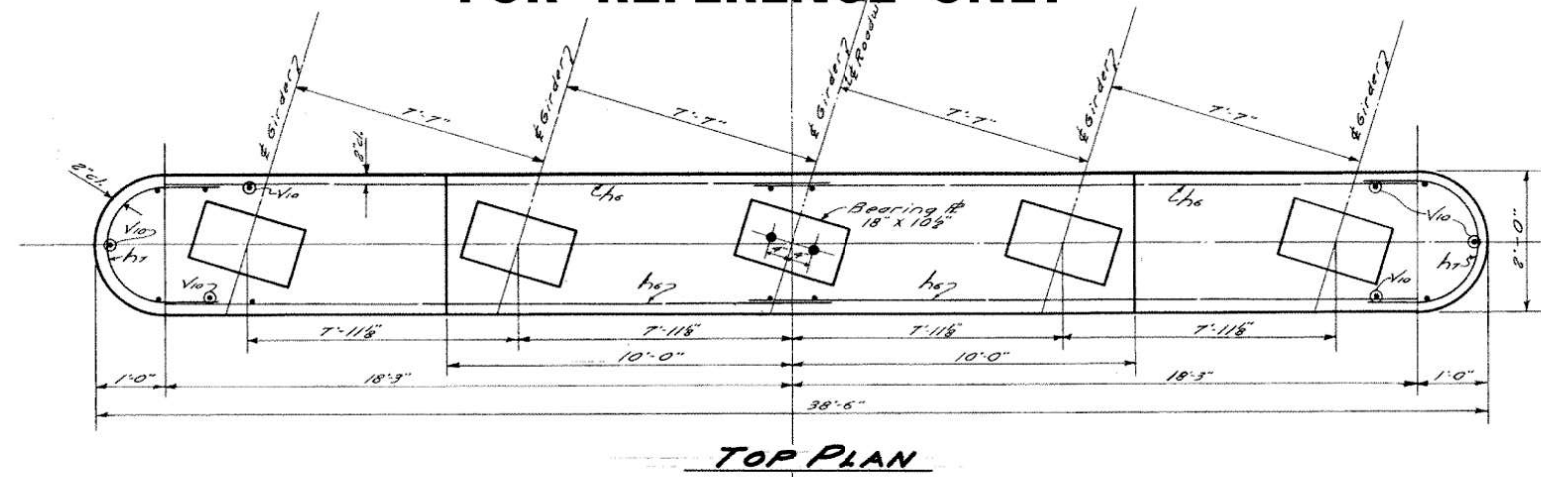






STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS  
**FOR REFERENCE ONLY**

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 7 OF SHEETS 8
S.B.I. 3	15BR	Whiteside	27	24	
F.A. 7					



**BILL OF MATERIAL-PIER**

BAR	NO.	SIZE	LENGTH	SHAPE
V10	78	#5	10'-8"	—
h8	44	#5	19'-0"	—
h7	22	#5	4'-9"	C
N3	78	#5	3'-9"	C
F1	40	#5	5'-5"	—
W	8	#4	21'-6"	—
Class X Concrete			Cu Yds.	46.7
Reinforcement Bars			Lbs.	8490
Untreated Piles (20' long)			Lin. Ft.	500
Test Piles			Eq.	1
Metal Shoes			Eq.	25

**UNTREATED PILES**  
Minimum Capacity—46 Tons  
Estimated length—20 Ft.  
Number in Pier—26

ONE TEST PILE IN PIER shall be driven in permanent pile location, as directed by the Engineer, before ordering the remainder of Piles.  
Each pile shall be shod with a Metal Shoe per detail shown on SHEET-3

**FRENCH CREEK**  
**S.B.I. RT. 3 (C.A. RT. 4) SEC. 15BR**  
**WHITESIDE COUNTY**  
**STATION 9+44**

DESIGNED *Joseph J. Ramsay*  
EXAMINED *July 10 1953*  
*W. E. Hanson*  
ENGINEERS OF BRIDGE AND TRAFFIC STRUCTURES  
CHECKED *Jackie Nightingale*  
PASSED *E. J. Hanson*  
ENGINEERS OF DESIGN  
DRAWN *J. D. N. C. Pulley*  
APPROVED *J. M. Borden*  
CHIEF HIGHWAY ENGINEER  
CHECKED *J. J. Ramsay*

FILE NAME =	USER NAME = Fasslermj	DESIGNED -	REVISED -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS

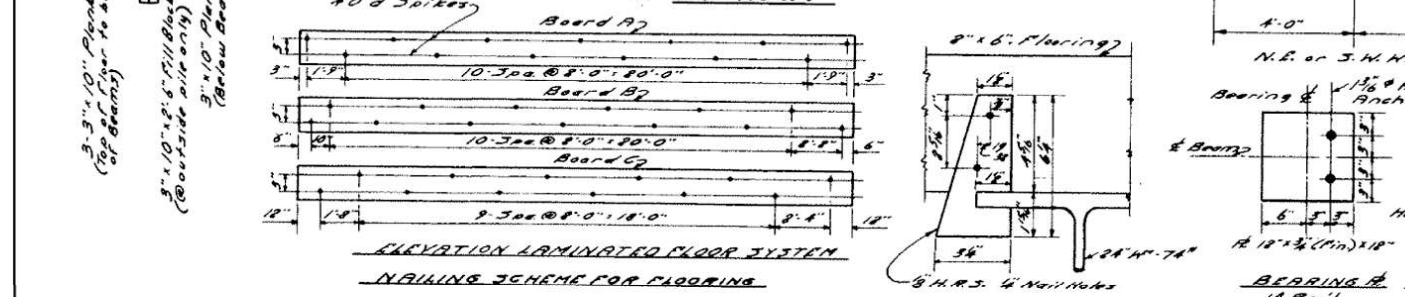
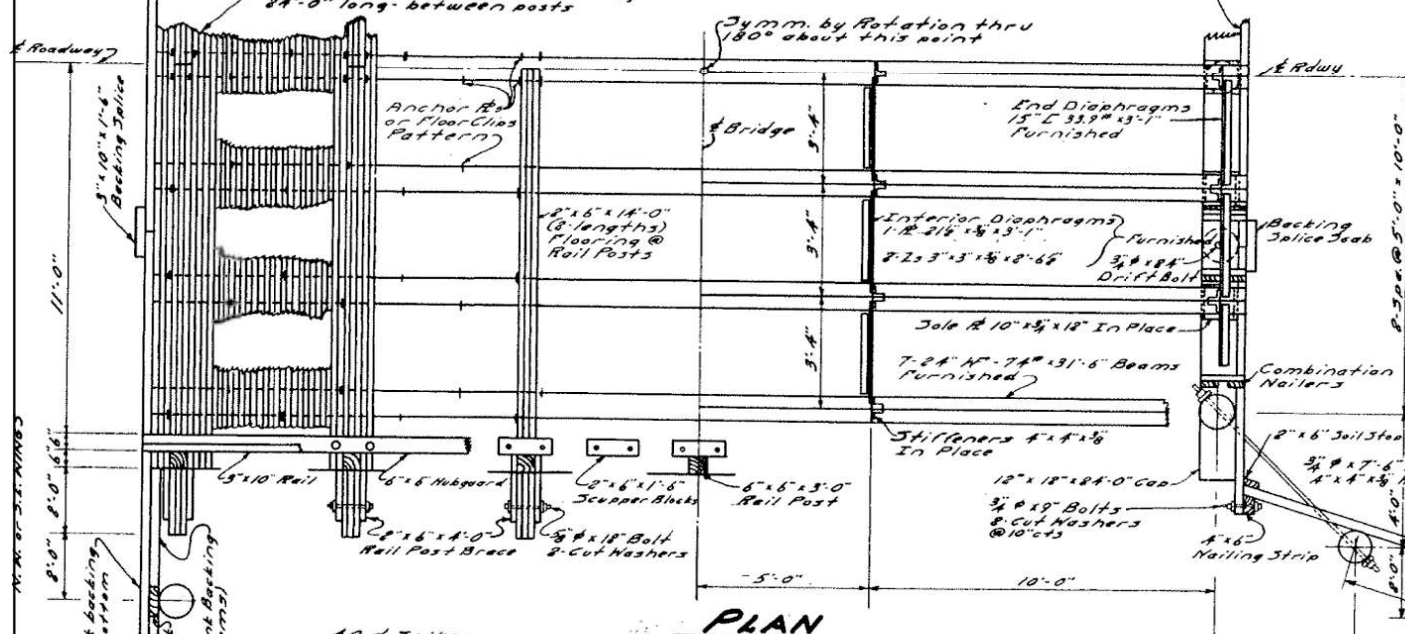
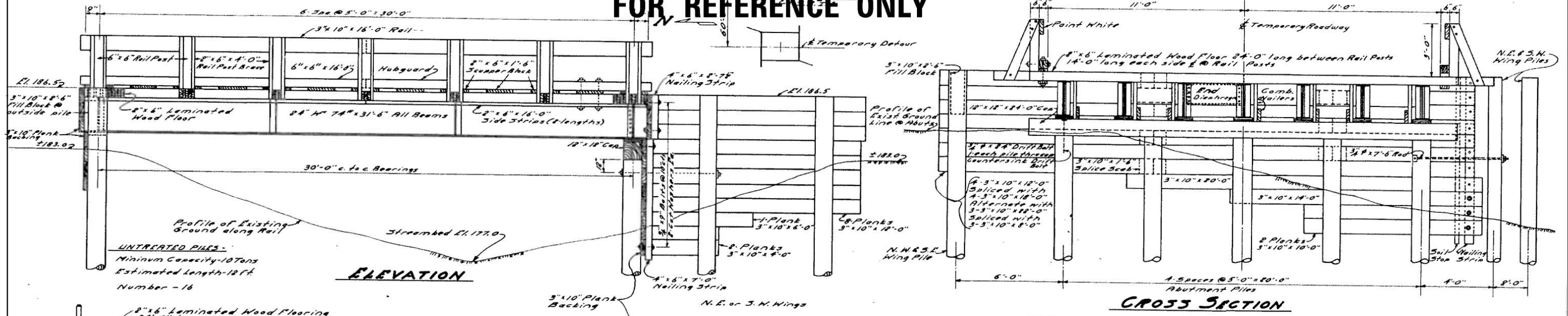
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	15BR-1	WHITESIDE	146	88
CONTRACT NO. 64F19				
ILLINOIS FED. AID PROJECT				



STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS  
**FOR REFERENCE ONLY**

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15 BR	White	White	27	25
SHEET NO. 9 8 SHEETS				

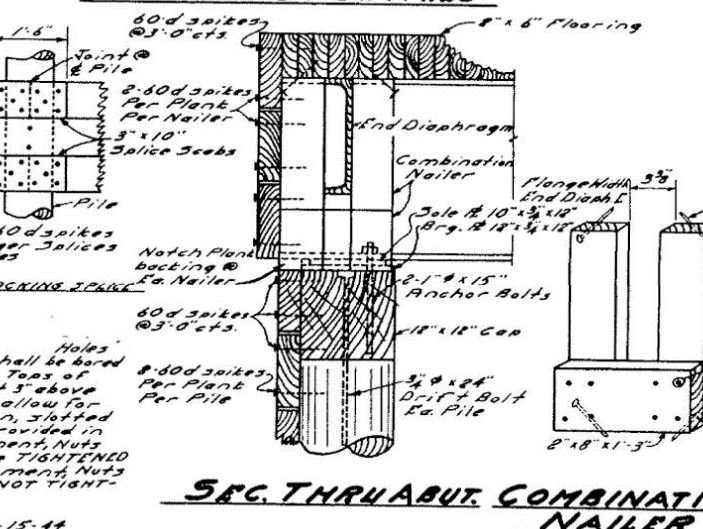
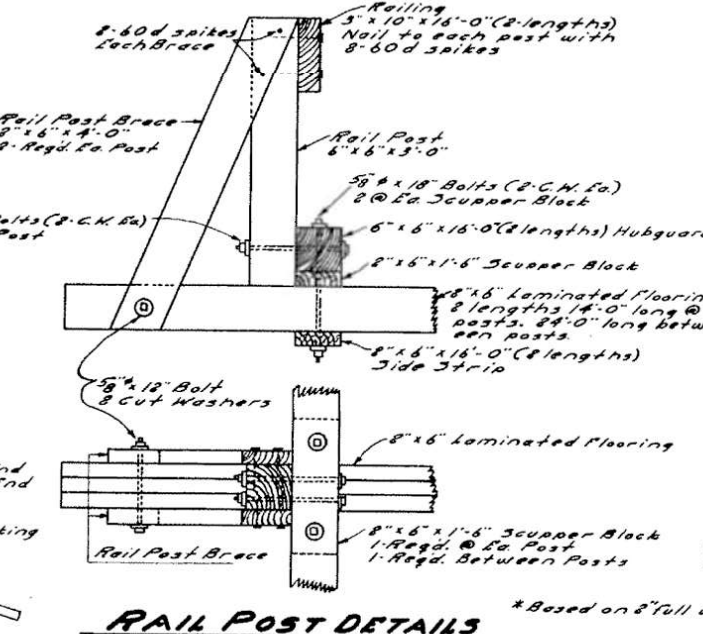


DESIGNED *Joseph J. Rimsay*  
CHECKED *W. E. Hancock*  
DRAWN *J. J. Rimsay C. Pulley*  
EXAMINED *W. E. Hancock*  
PASSED *C. E. ...*  
APPROVED *A. N. Barber*  
CHIEF HIGHWAY ENGINEER

July 10 1953

**ANCHOR PLATES**  
Anchor Plates shall be Stanley No. 9830-108 or equal and fastened with 40d spikes. Laminated flooring shall be secured to every I-Beam with Anchor Pl. alternating each side of beam at every tenth (10th) floor board in pattern shown. Where 8' lengths of floor boards are used as in bays carrying rail posts, the boards shall be but jointed at I-Beam and Anchor Pl. used on each side of beam.

**BEARING & ANCHOR BOLT ANCHORING PLATE**  
Not greater than 1/4" shall be bored in cap for Anchor Bolts. Top of bearing plates. To allow for expansion and contraction, slotted holes 1/4" x 1/4" have been provided in Sole Plates. At one Abutment, Nuts on Anchor Bolts shall be TIGHTENED securely. At other Abutment, Nuts shall be run down but NOT TIGHTENED.



BILL OF LUMBER			BILL OF HARDWARE		
No. of Pieces	SIZE	LENGTH	PURPOSE	No. of Pieces	ITEM
2	18" x 18"	24'-0"	Pile Caps	2	Rods
4	6" x 6"	18'-0"	Hubguard	4	Plate Washers
14	6" x 6"	3'-0"	Rail Posts	4	Nuts
6	3" x 10"	22'-0"	Abut Backing	22	Bolts
8	3" x 10"	20'-0"	"	44	Cut Washers
8	3" x 10"	18'-0"	"	14	Bolts
8	3" x 10"	14'-0"	"	28	Bolts
8	3" x 10"	18'-0"	"	52	Bolts
4	3" x 10"	10'-0"	"	108	Cut Washers
6	3" x 10"	8'-0"	"	10	Drift Bolts
16	3" x 10"	12'-0"	Wing Backing	28	Anchor Bolts
2	3" x 10"	6'-0"	"	28	Hex. Nuts
4	3" x 10"	4'-0"	"	14	Bearing Pl.
4	3" x 10"	16'-0"	Rail	172	Anchor Pl.
14	3" x 10"	18'-0"	Splice Seeds	5160	Spikes
2	3" x 10"	6'-0"	"	750	"
4	3" x 10"	4'-0"	"	890	Struct. Rib Bolts
2	4" x 6"	7'-0"	Nailing Strips	290	Hex. Nuts
2	4" x 6"	7'-0"	"		
2	8" x 6"	7'-0"	Soil Stops		
2	8" x 6"	8'-0"	"		
28	8" x 6"	4'-0"	Rail Post Braces		
28	8" x 6"	1'-6"	Scupper Blocks		
4	8" x 6"	18'-0"	Side Strips		
28	8" x 6"	8'-12"	Comb. Nailers		
14	8" x 6"	1'-3"	"		
168	8" x 6"	24'-0"	Laminated Floor		
42	8" x 6"	14'-0"	"		

The quantities are shown only as a guide to bidders in estimating this item which shall be paid for at the contract unit price each for TEMPORARY BRIDGE COMPLETE. All structural steel req'd for the temporary bridge will be furnished to the Contractor free of charge at the White Side County Highway Dept. storage yard at Morrison.

All other material for the temporary bridge shall be furnished by the Contractor.

**TEMPORARY BRIDGE**  
S.B.I. RT. 3-56C. 15B-R  
WHITESIDE COUNTY  
STATION 9+44



**GENERAL NOTES**

Box Culvert End Sections shall be constructed according to the requirements for end sections of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections of the culvert number specified.

All costs associated with excavation, backfill, and construction of Box Culvert End Sections shall be included in the contract unit price per each for Box Culvert End Sections of the culvert number specified.

Number of sections shown in Elevation is for example only. Length and number of precast sections required to construct Box Culvert End Sections shall be determined by the Contractor and indicated in the shop drawings. Joints between precast sections shall be produced with reinforced tongue and groove ends conforming to the requirements of ASTM C 1577.

1"  $\phi$  anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 5/16" plate washers shall be provided under each nut required for the anchor rods. All anchor rods in a culvert tie assembly shall be snug tightened by a few impacts of an impact wrench or the full force of a worker using an ordinary spud wrench. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

Alternate culvert ties similar in strength and stiffness to the plan details may be provided by the Contractor. Alternate culvert ties shall be subject to approval of the Engineer.

All costs associated with furnishing and installing the toewall and culvert ties will not be measured for payment but shall be included in the contract unit price for Box Culvert End Sections of the culvert number specified.

Reinforcement bars designated (E) shall be epoxy coated.

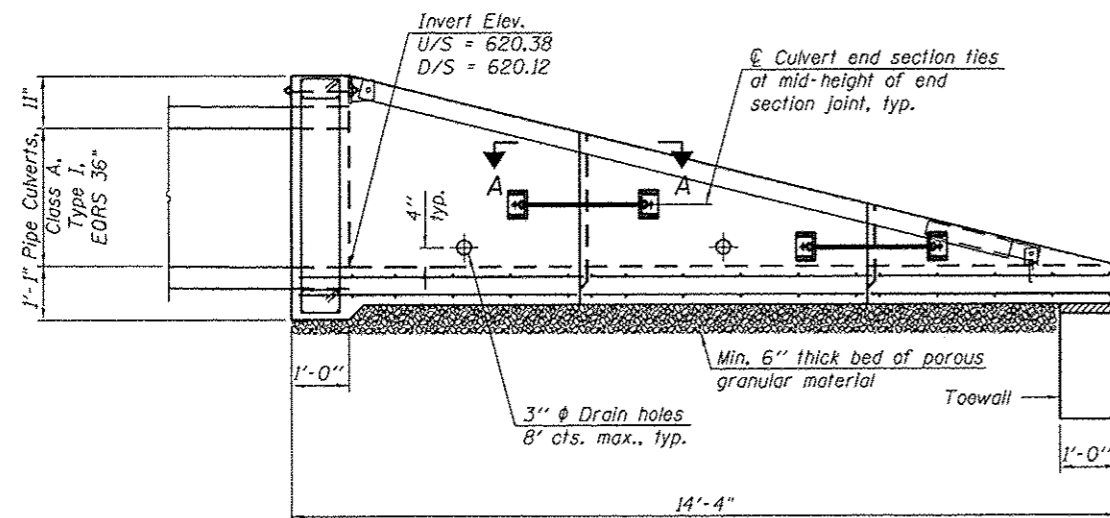
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60.

Drain holes shall conform to the requirements of Article 503.11 of the Standard Specifications unless noted otherwise.

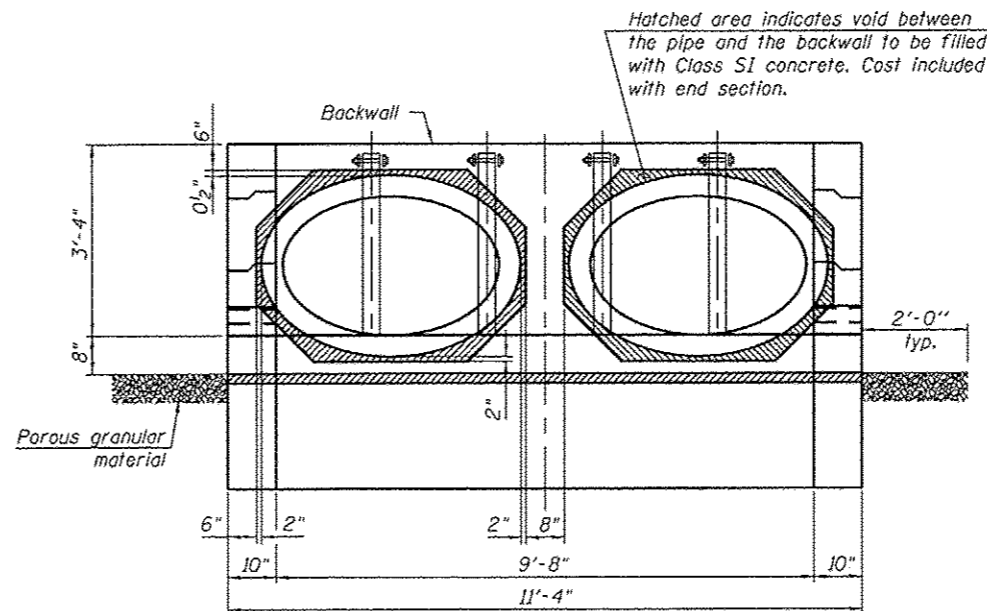
Shop drawings that detail slab thickness and reinforcement layout shall be submitted to the Engineer for review and approval. Unless noted otherwise, reinforcement shall be detailed with a 1" concrete cover and a clear distance at the end of the reinforcement not less than 1/2" nor more than 2".

Unless noted otherwise, concrete shall be class PC and shall have a minimum compressive strength of 5,000 psi at 28 days.

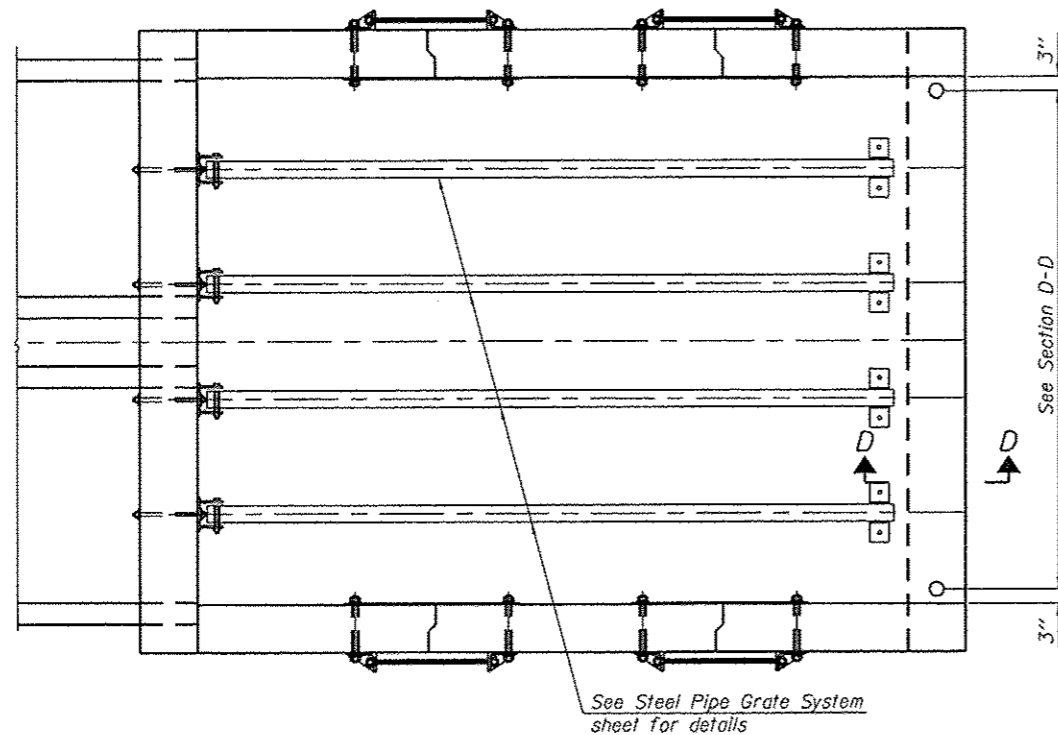
The Contractor may not construct any portion of the end section in the field using cast-in-place (CIP) construction.



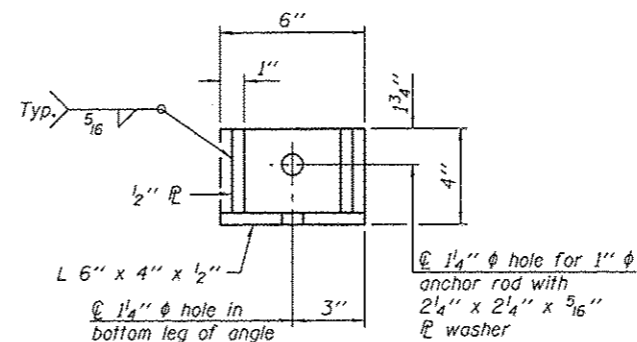
**ELEVATION**



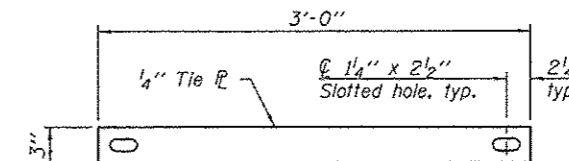
**END VIEW**



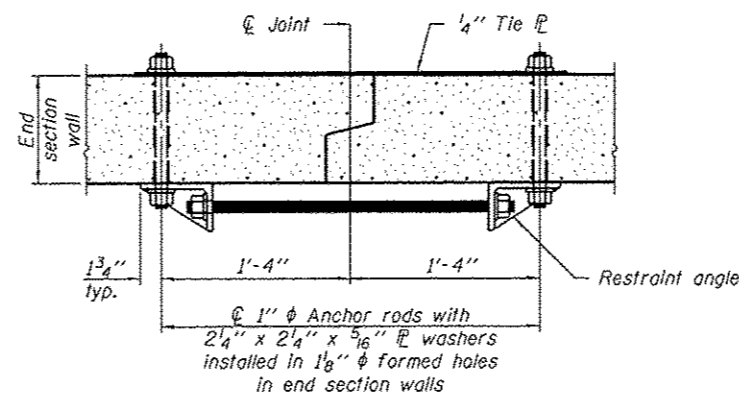
**PLAN**



**RESTRAINT ANGLE DETAIL**



**TIE PLATE DETAIL**



**SECTION A-A**  
(Showing end section tie details)



*Kevin J. Brehm*  
 Kevin J. Brehm, S.E. Reg. No. 081-007103  
 Date: 6-10-2014  
 My registration expires November 30, 2014

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Box Culvert End Sections, Culvert No. 1	Each	2
Traversable Pipe Grate	Foot	97

(Sheet 1 of 3)

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

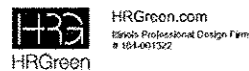
PRECAST CULVERT END  
 SECTIONS WITH PIPE GRATES

SHEET NO. SC-1 OF SC-3 SHEETS

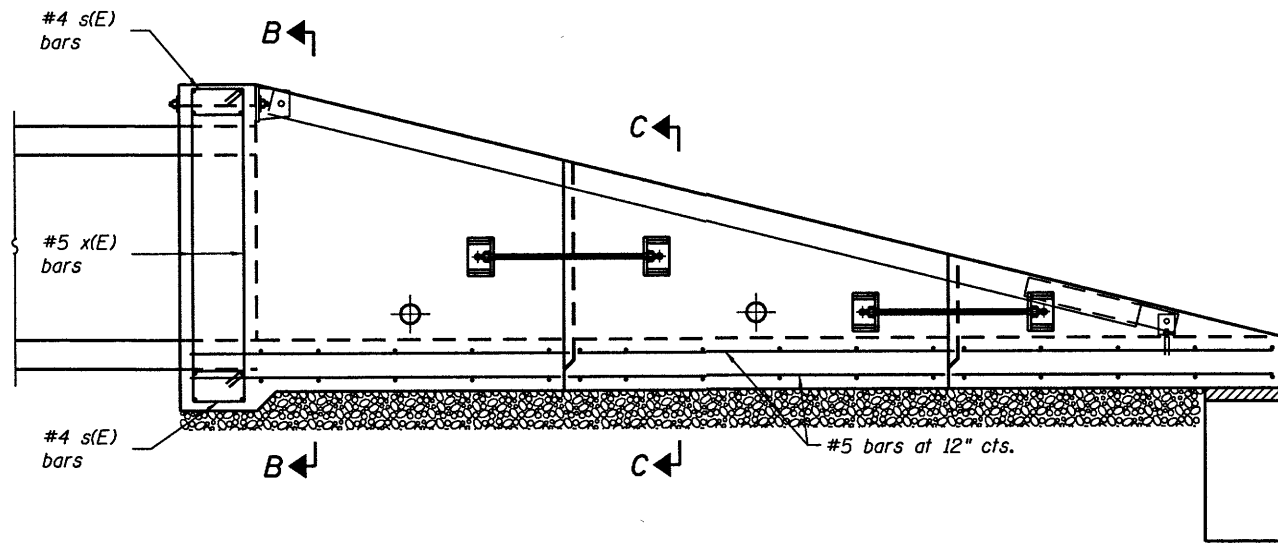
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	15BR-1	WHITESIDE	146	90
				CONTRACT NO. 64F19

ILLINOIS FED. AID PROJECT

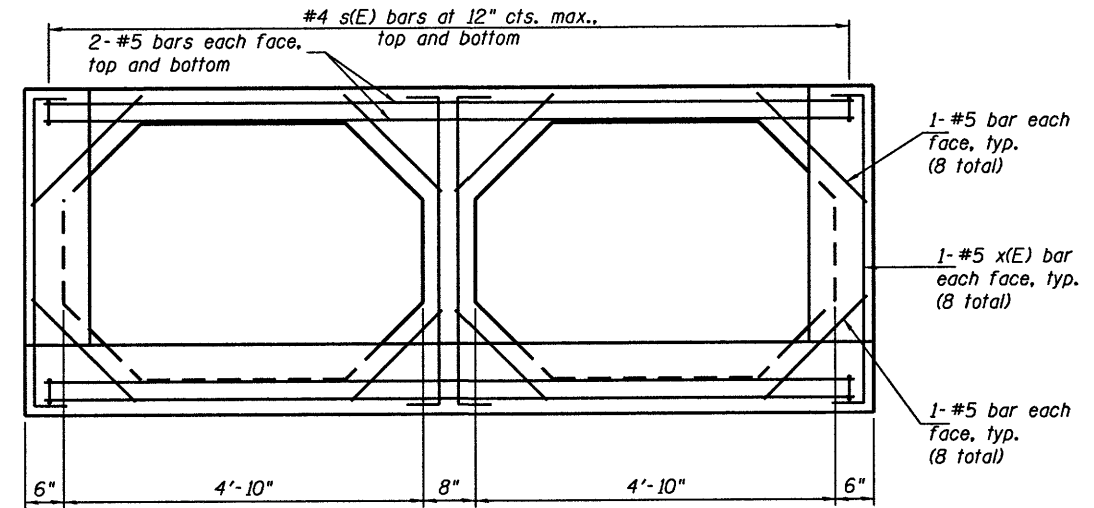
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 PROJECT CONTACT: KEVIN J. BREHM  
 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION  
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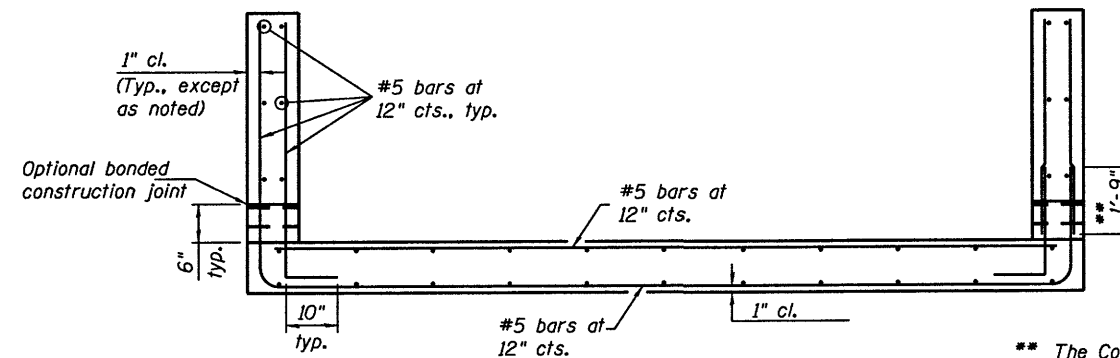
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	CHECKED - MGH	REVISED



**LONGITUDINAL SECTION**  
(Showing bottom slab and backwall reinforcement.)

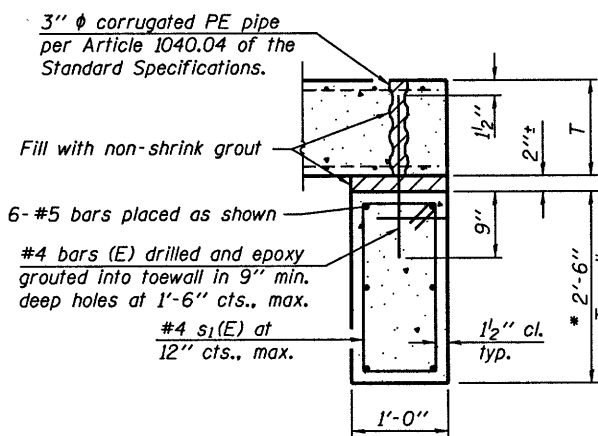


**SECTION B-B**  
(Showing backwall reinforcement only.)  
(Pipe omitted for clarity.)



**SECTION C-C**

\*\* The Contractor may use lap splices for the sidewall reinforcement at the locations shown. Lap splice locations shall be detailed in the shop drawings.

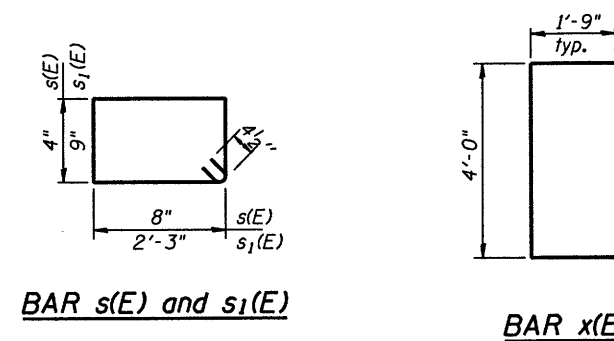


**SECTION D-D**

**TOEWALL CONSTRUCTION SEQUENCE**

1. Perform excavation and set precast toewall in place.
2. Backfill accordingly and place bedding for precast culvert end sections.
3. Set precast culvert end sections in place.
4. Drill and epoxy grout reinforcement in toewall according to Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

\* The Contractor shall furnish a precast toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.



**BAR s(E) and s1(E)**

**BAR x(E)**

(Sheet 2 of 3)

COMPANY NAME: HR GREEN, INC.  
PROJECT CONTACT: KEVIN J BRENN  
CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION  
DATE PLOTTED: 10/21/2013 4:07:42 PM  
FILE NAME: EndSection-64F19.dwg  
PLOT DRIVER: PLOT.DWG  
PEN TABLE: Struct 11x17.tbl



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PLOT DATE =	DRAWN - WJH	REVISED -
	CHECKED - MGH	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PRECAST CULVERT END  
SECTIONS WITH PIPE GRATES**

SHEET NO. SC-2 OF SC-3 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	15BR-1	WHITESIDE	146	91
CONTRACT NO.			64F19	
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

Length and number of steel pipes shall be determined by the Contractor except as shown. All steel pipe shall be standard weight (Sch. 40) unless otherwise noted.

All components of the Steel Pipe Grate System shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable.

Fabrication of the Steel Pipe Grate System shall conform to the requirements in Section 505 of the Standard Specifications unless noted otherwise.

Structural steel shapes and plates shall conform to the requirements of Article 1006.04 of the Standard Specifications. Steel pipes shall conform to the requirements of ASTM A 53 (Type E or S), Grade B.

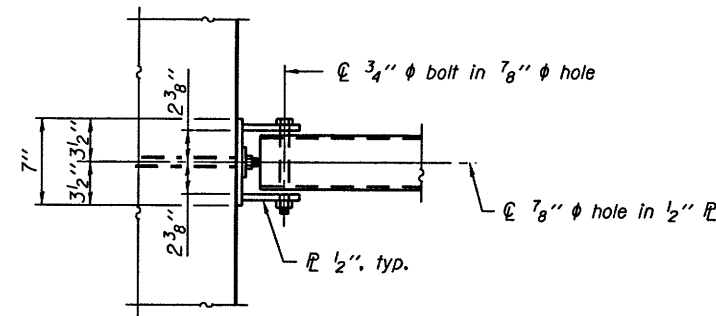
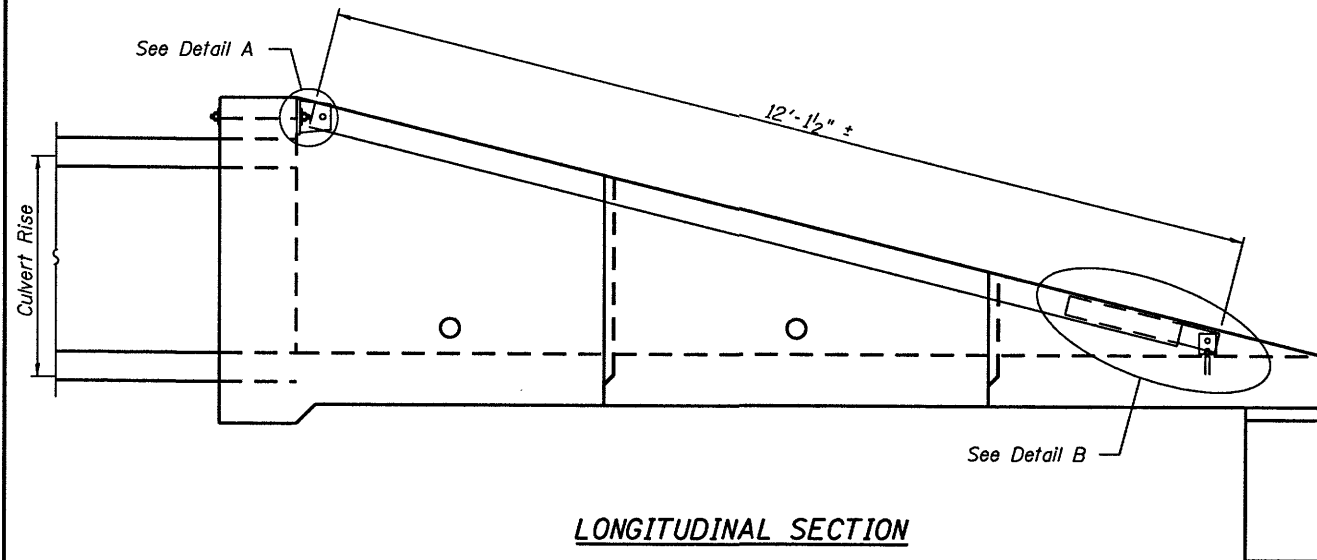
Anchor rods shall conform to the requirements of ASTM F1554, Grade 105. Anchor rods shall be drilled and epoxy grouted according to the requirements of Section 584 of the Standard Specifications. The chemical adhesive system shall be capable of achieving a minimum proof load of 5000 pounds and an ultimate shear capacity of 8000 pounds per anchor.

Bolts and thru bolts shall conform to the requirements of Article 1006.08 of the Standard Specifications except threaded rods conforming to the requirements of ASTM F1554, Grade 105 may be used for the thru bolts.

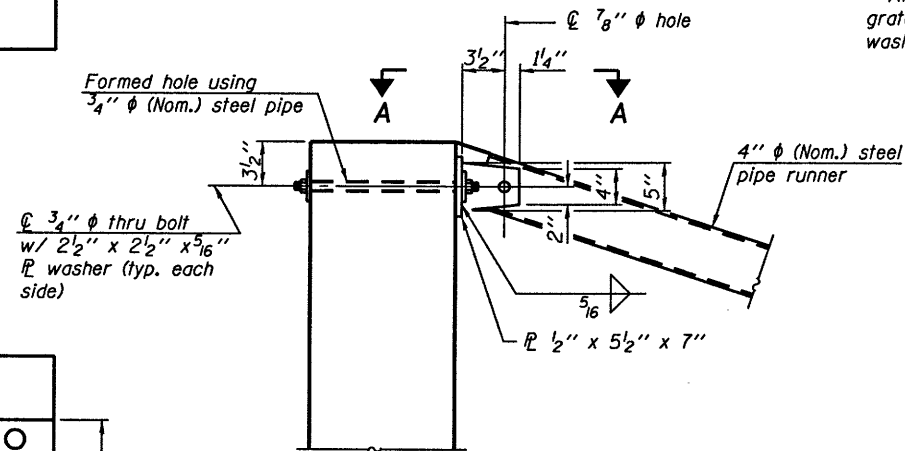
The minimum edge distance from the center of a hole to the free edge of a structural shape or plate shall be 1 1/2" unless noted otherwise.

Bolts and anchor rods shall be snug tightened by a few impacts of an impact wrench or the full force of a worker using an ordinary spud wrench.

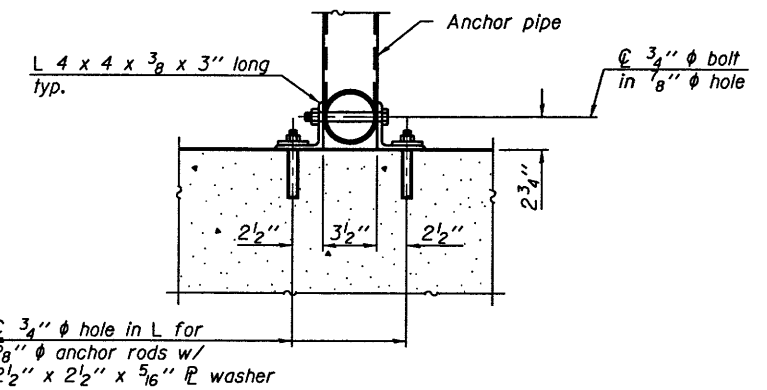
All costs associated with fabricating, furnishing, and installing the steel pipe grate system, including the steel pipes, angles, plates, bolts, anchors, nuts, and washers shall be included in the contract unit price for Traversable Pipe Grate.



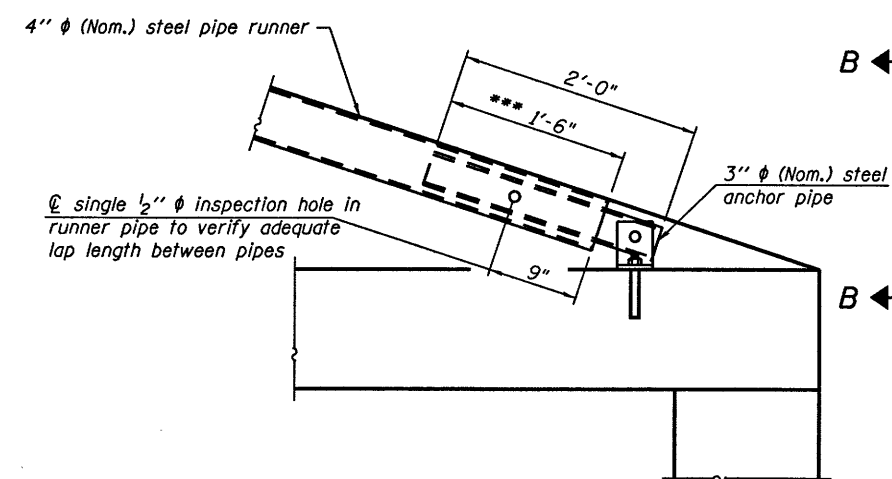
**VIEW A-A**



**DETAIL A**



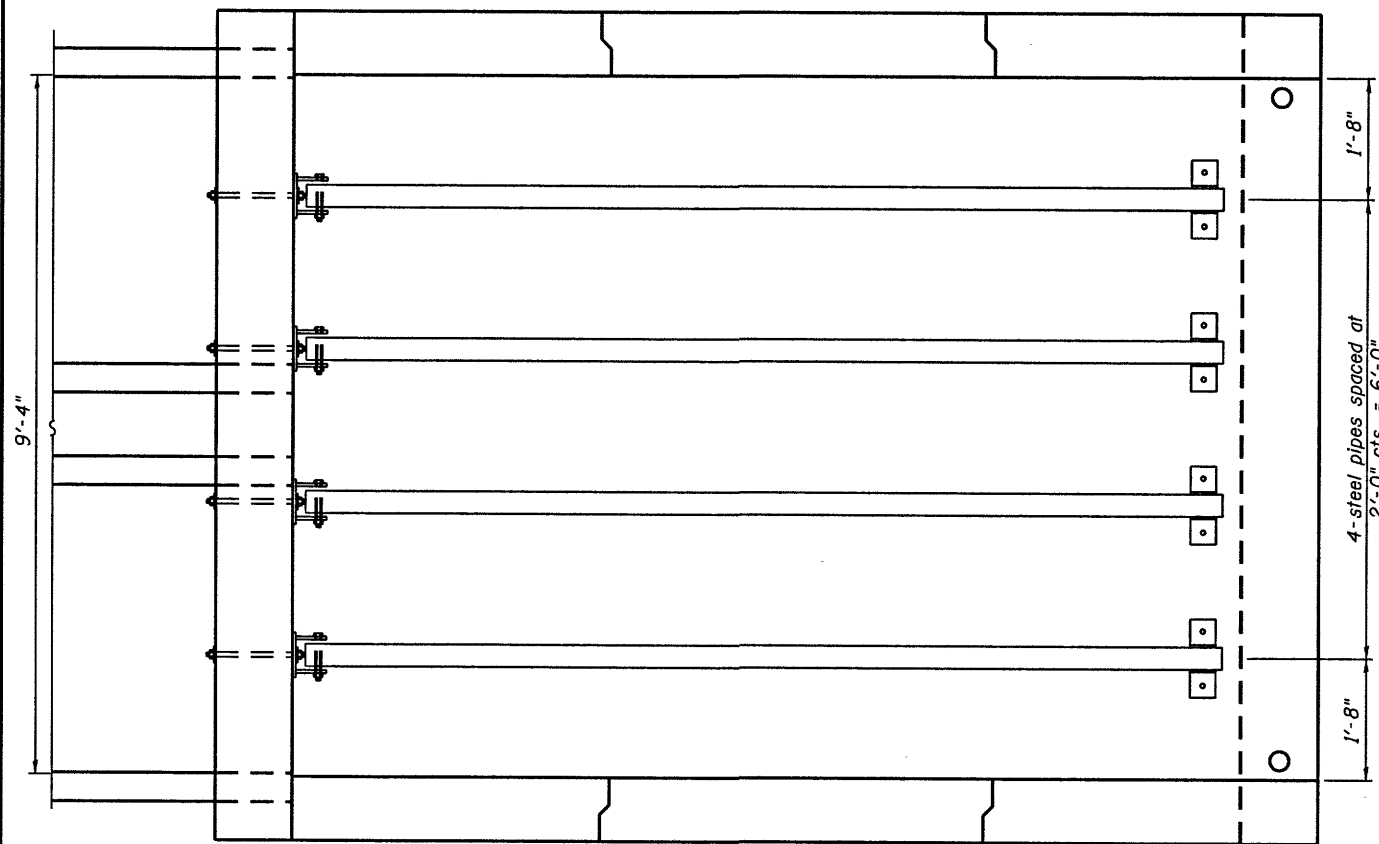
**SECTION B-B**



**DETAIL B**

\*\*\* The lap length between pipes may be adjusted in the field to accommodate construction tolerances but shall not be less than 9". Lapped pipe length only included once in quantity for Traversable Pipe Grate.

(Sheet 3 of 3)



**PLAN VIEW**

COMPANY NAME: HR GREEN, INC.  
 PROJECT CONTACT: KEVIN J BREW  
 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DATE PLOTTED: 10/21/2013 4:08:03 PM  
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PLOT DATE =	CHECKED - MGH	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STEEL PIPE GRATE SYSTEM**

SHEET NO. SC-3 OF SC-3 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	15BR-1	WHITESIDE	146	92
CONTRACT NO.			64F19	

ILLINOIS FED. AID PROJECT



# GRATING FOR CONCRETE END SECTION, (STANDARD 542011), 18" 1:6 LT STA. 902 + 92.29 & LT STA. 904 + 44.58

## GENERAL NOTES

Length and number of steel pipes shall be determined by the Contractor in accordance with the spacing limits shown. All steel pipe shall be standard weight (Sch. 40) unless otherwise noted.

All components of the Steel Pipe Grate System shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable.

Fabrication of the Steel Pipe Grate System shall conform to the requirements in Section 505 of the Standard Specifications unless noted otherwise.

Structural steel shapes and plates shall conform to the requirements of Article 1006.04 of the Standard Specifications. Steel pipes shall conform to the requirements of ASTM A 53 (Type E or S), Grade B.

Anchor rods shall conform to the requirements of ASTM F1554, Grade 105.

Anchor rods shall be drilled and epoxy grouted according to the requirements of Section 584 of the Standard Specifications. The chemical adhesive system shall be capable of achieving a minimum proof load of 5000 pounds and an ultimate shear capacity of 8000 pounds per anchor.

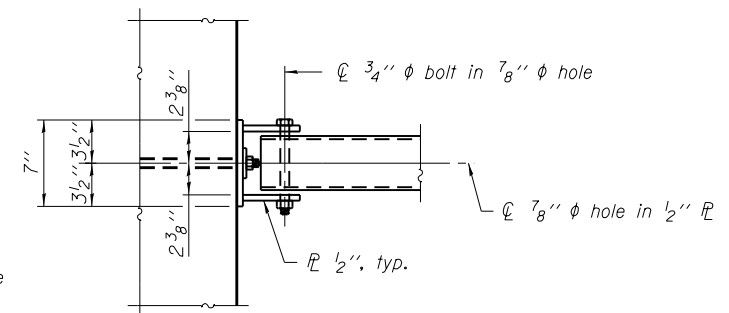
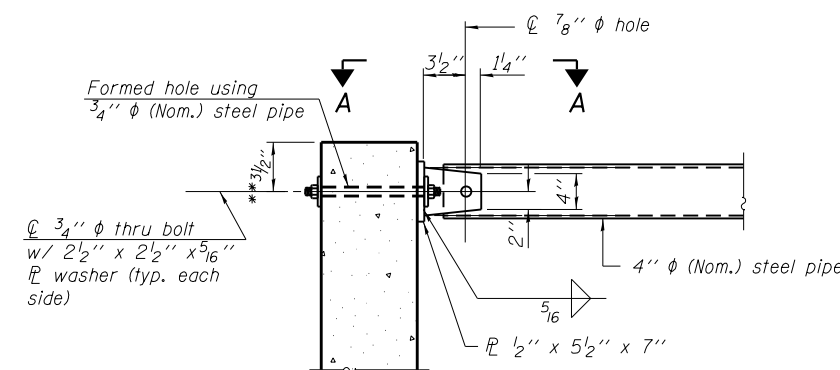
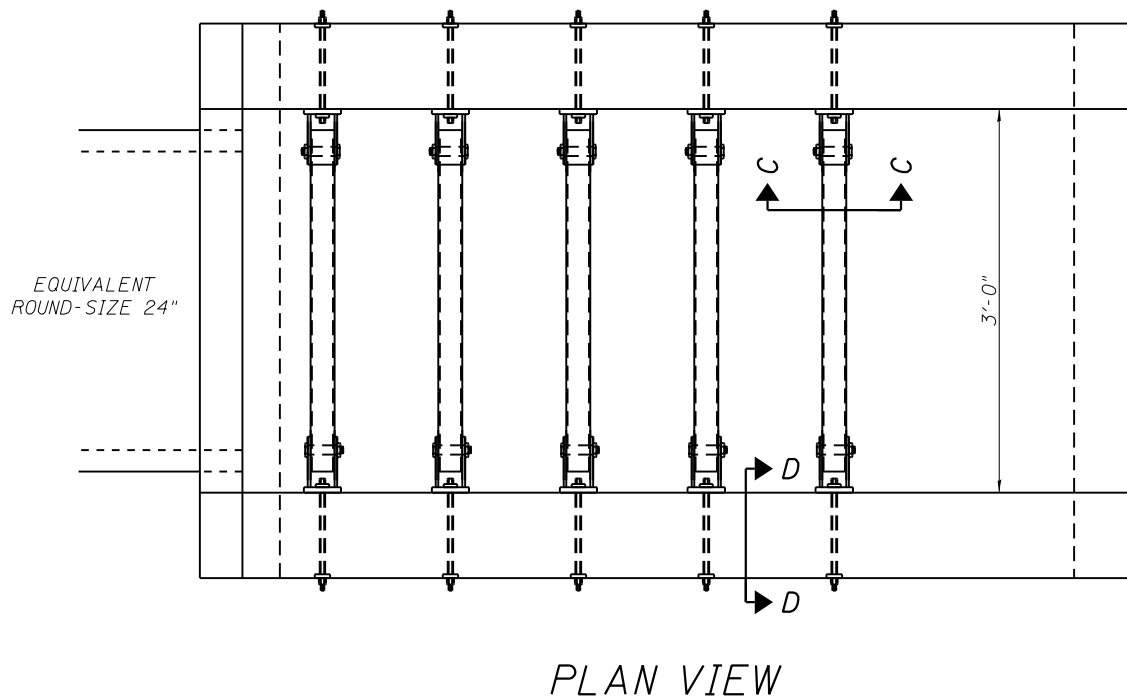
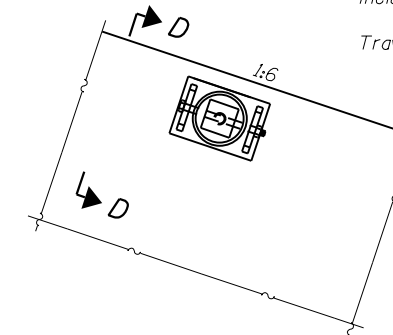
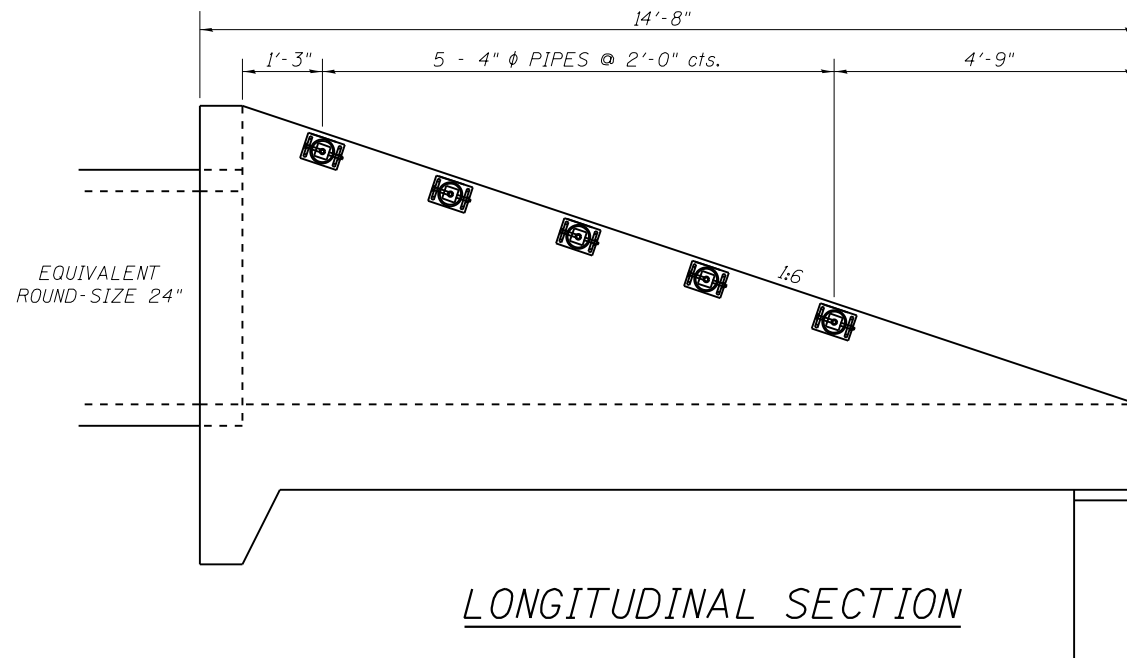
Bolts and thru bolts shall conform to the requirements of Article 1006.08 of the Standard Specifications except threaded rods conforming to the requirements of ASTM F1554, Grade 105 may be used for the thru bolts.

The minimum edge distance from the center of a hole to the free edge of a structural shape or plate shall be 1/2" unless noted otherwise.

Bolts and anchor rods shall be snug tightened by a few impacts of an impact wrench or the full force of a worker using an ordinary spur wrench.

All cost associated with fabricating, furnishing, and installing the Steel Pipe Grate System including the steel pipes, steel plates, bolts, nuts and washers shall be included in the contract unit price "Foot" for Traversable Pipe Grate.

Traversable Pipe Grate = (13'-4")/(CONCRETE END SECTION, (STANDARD 542011), 18" 1:6)



\*\* Measured perpendicular to top of culvert wall. In addition, formed hole shall be located a minimum of 6" measured horizontally from any vertical joints necessary for construction of the culvert end section.

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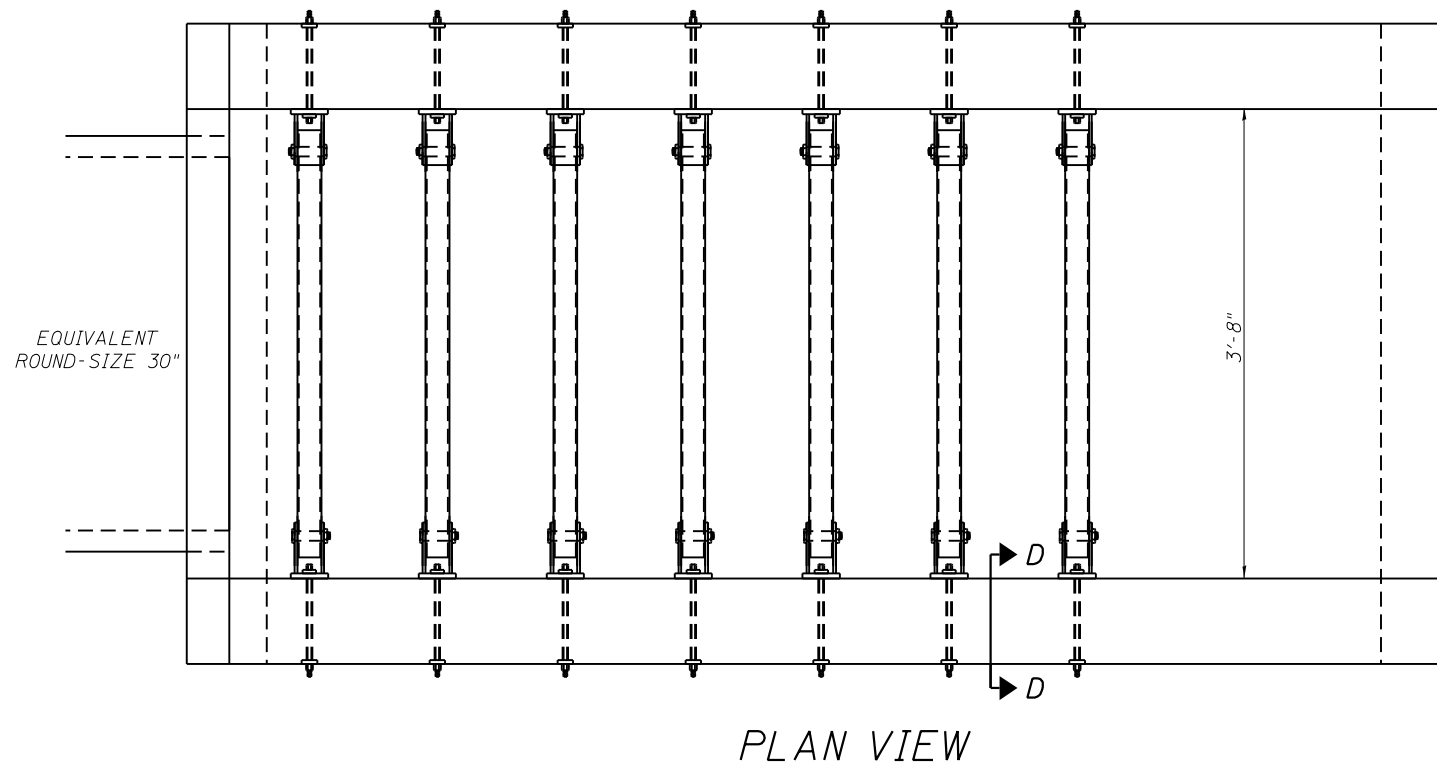
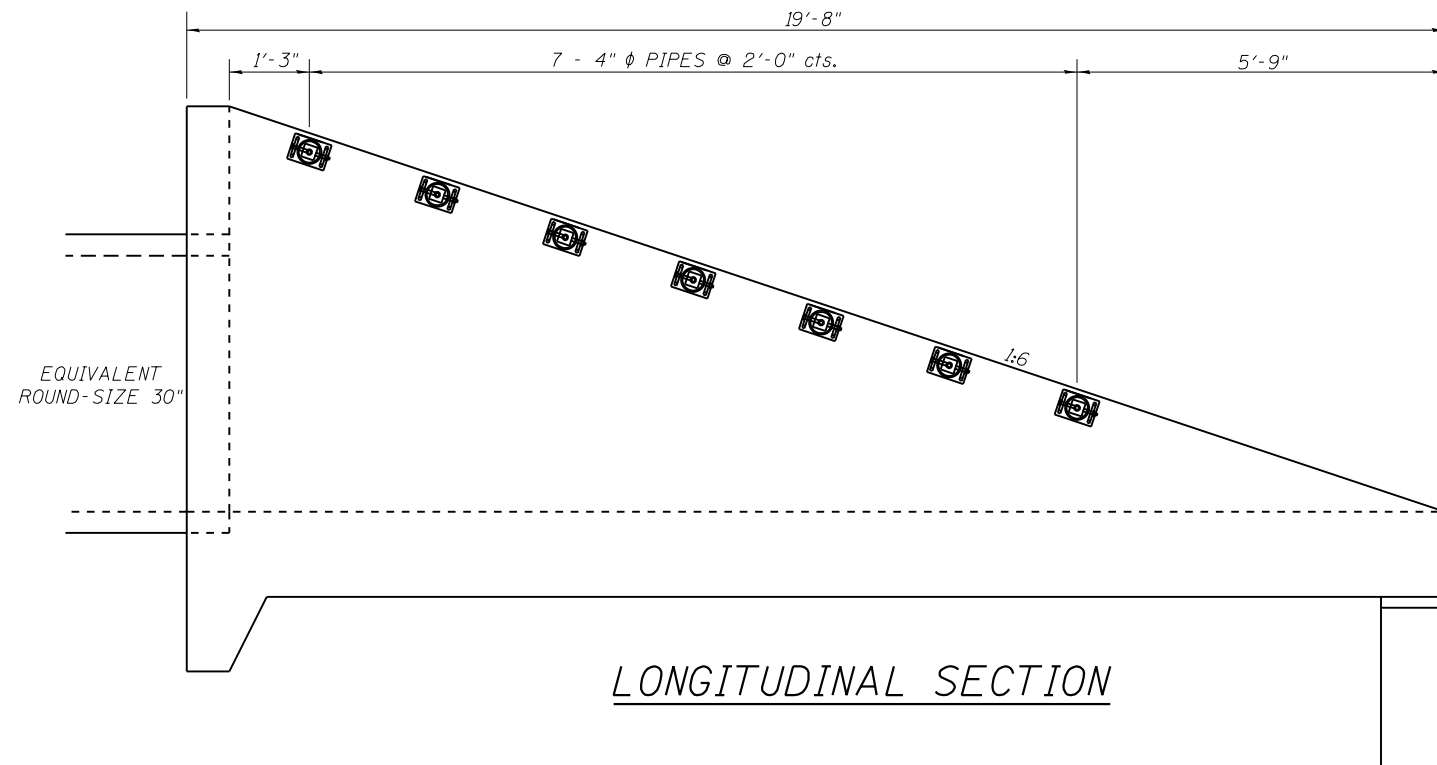
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GRATING FOR CONCRETE END SECTION, (STANDARD 542011), 18" 1:6  
LT STA. 902 + 92.29 & LT STA. 904 + 44.58**

SCALE: \_\_\_\_\_ SHEET NO. 1 OF 1 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

• IL 78	F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• 22		15BR-1	WHITESIDE	146	93
			CONTRACT NO. 64F19		
ILLINOIS FED. AID PROJECT					

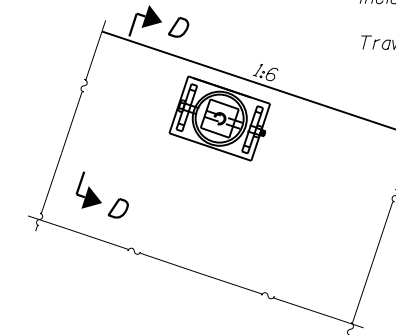
# GRATING FOR CONCRETE END SECTION, (STANDARD 542011), 24" 1:6 RT STA. 902 + 33.00 & RT STA. 902 + 73.00



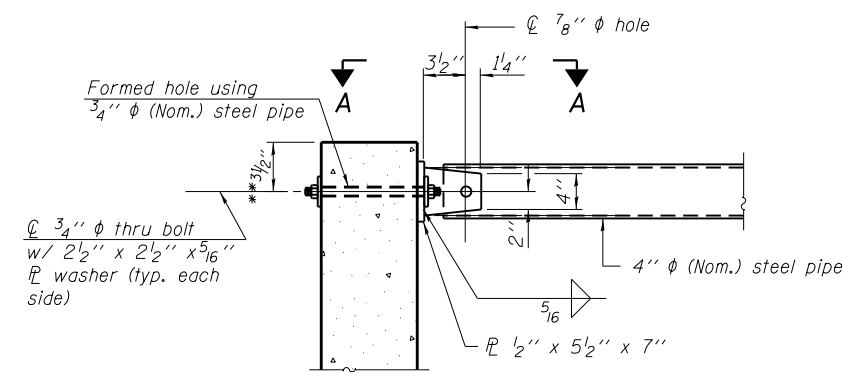
### GENERAL NOTES

- Length and number of steel pipes shall be determined by the Contractor in accordance with the spacing limits shown. All steel pipe shall be standard weight (Sch. 40) unless otherwise noted.
- All components of the Steel Pipe Grate System shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable.
- Fabrication of the Steel Pipe Grate System shall conform to the requirements in Section 505 of the Standard Specifications unless noted otherwise.
- Structural steel shapes and plates shall conform to the requirements of Article 1006.04 of the Standard Specifications. Steel pipes shall conform to the requirements of ASTM A 53 (Type E or S), Grade B.
- Anchor rods shall conform to the requirements of ASTM F1554, Grade 105.
- Anchor rods shall be drilled and epoxy grouted according to the requirements of Section 584 of the Standard Specifications. The chemical adhesive system shall be capable of achieving a minimum proof load of 5000 pounds and an ultimate shear capacity of 8000 pounds per anchor.
- Bolts and thru bolts shall conform to the requirements of Article 1006.08 of the Standard Specifications except threaded rods conforming to the requirements of ASTM F1554, Grade 105 may be used for the thru bolts.
- The minimum edge distance from the center of a hole to the free edge of a structural shape or plate shall be 1/2" unless noted otherwise.
- Bolts and anchor rods shall be snug tightened by a few impacts of an impact wrench or the full force of a worker using an ordinary spud wrench.
- All cost associated with fabricating, furnishing, and installing the Steel Pipe Grate System including the steel pipes, steel plates, bolts, nuts and washers shall be included in the contract unit price "Foot" for Traversable Pipe Grate.

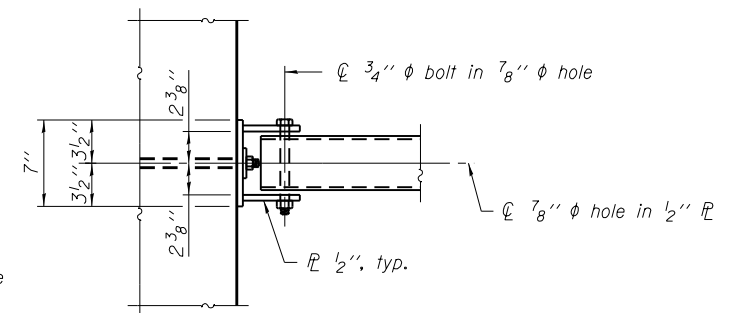
Traversable Pipe Grate = (23'-4")/(CONCRETE END SECTION, (STANDARD 542011), 24" 1:6)



**SECTION C-C**  
(See SECTION D-D for dimensions and details not shown.)



**SECTION D-D**



**VIEW A-A**

\*\* Measured perpendicular to top of culvert wall. In addition, formed hole shall be located a minimum of 6" measured horizontally from any vertical joints necessary for construction of the culvert end section.

FILE NAME =	USER NAME = Fasslermj	DESIGNED -	REVISED -
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PLOT SCALE = 60.0000' / in.		CHECKED -	REVISED -
PLOT DATE = Fri Jun 13 10:53:41 2014		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GRATING FOR CONCRETE END SECTION, (STANDARD 542011), 24" 1:6  
RT STA. 902 + 33.00 & RT STA. 902 + 73.00**

SCALE: \_\_\_\_\_ SHEET NO. 01 OF 1 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

• IL 78	F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• 22	15BR-1	WHITESIDE	146	94	
CONTRACT NO. 64F19					
ILLINOIS FED. AID PROJECT					

# GRATING FOR CONCRETE END SECTION, (STANDARD 542001), 15" 1:6; RT STA. 916 + 50.00

## GENERAL NOTES

Length and number of steel pipes shall be determined by the Contractor in accordance with the spacing limits shown. All steel pipe shall be standard weight (Sch. 40) unless otherwise noted.

All components of the Steel Pipe Grate System shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable.

Fabrication of the Steel Pipe Grate System shall conform to the requirements in Section 505 of the Standard Specifications unless noted otherwise.

Structural steel shapes and plates shall conform to the requirements of Article 1006.04 of the Standard Specifications. Steel pipes shall conform to the requirements of ASTM A 53 (Type E or S), Grade B.

Anchor rods shall conform to the requirements of ASTM F1554, Grade 105. Anchor rods shall be drilled and epoxy grouted according to the requirements of Section 584 of the Standard Specifications. The chemical adhesive system shall be capable of achieving a minimum proof load of 5000 pounds and an ultimate shear capacity of 8000 pounds per anchor.

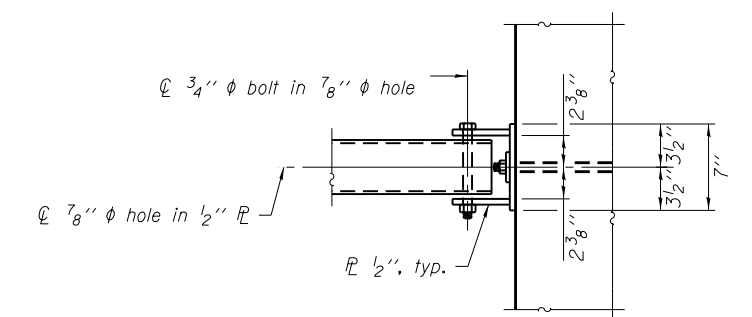
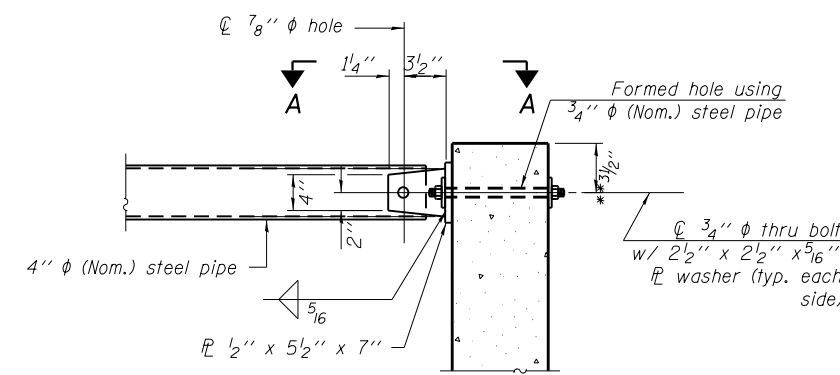
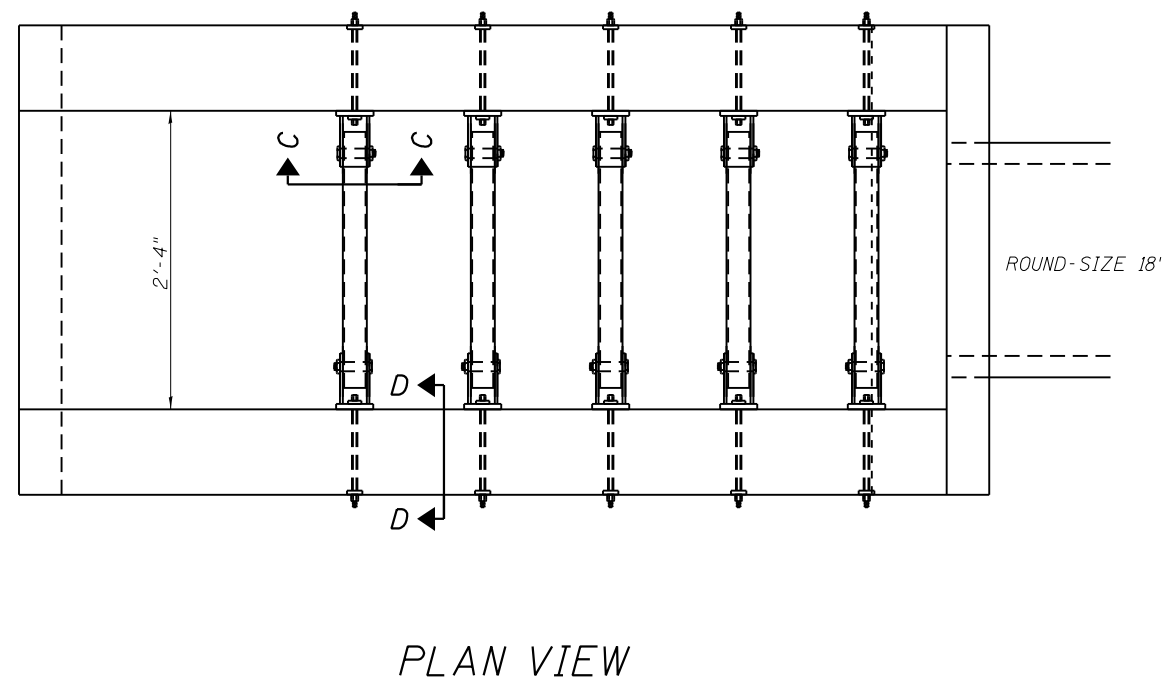
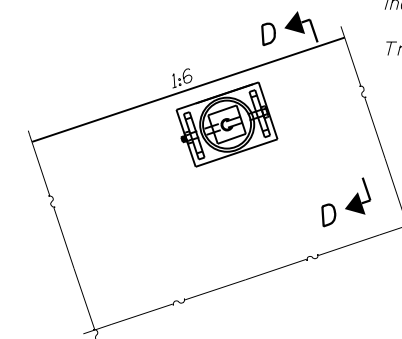
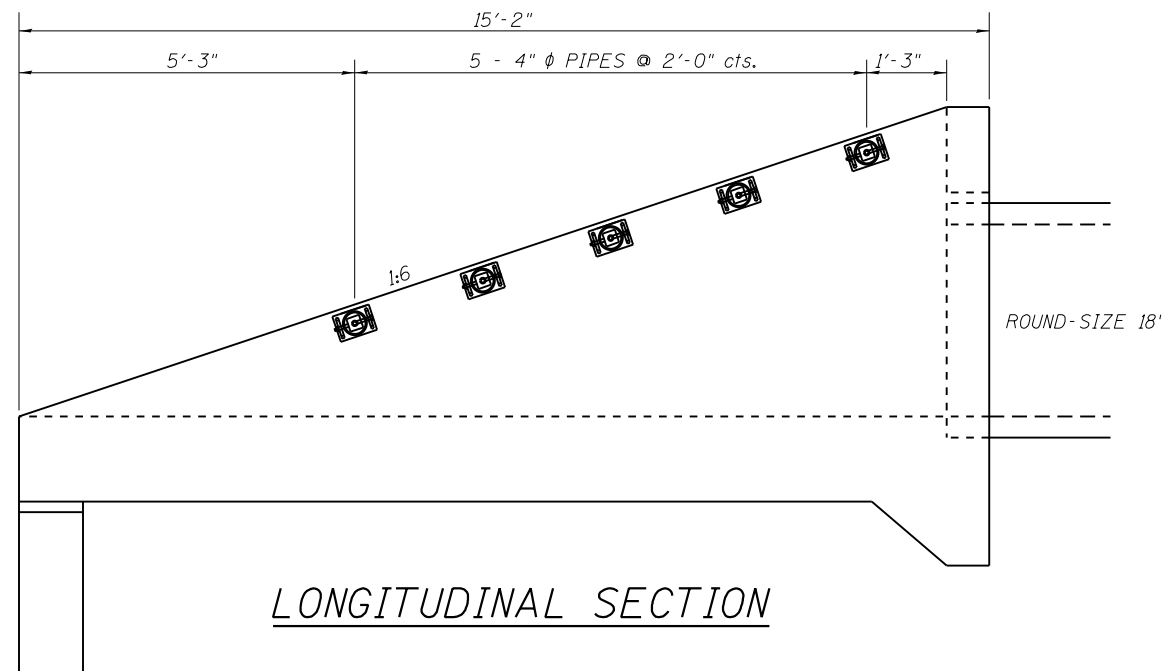
Bolts and thru bolts shall conform to the requirements of Article 1006.08 of the Standard Specifications except threaded rods conforming to the requirements of ASTM F1554, Grade 105 may be used for the thru bolts.

The minimum edge distance from the center of a hole to the free edge of a structural shape or plate shall be 1/2" unless noted otherwise.

Bolts and anchor rods shall be snug tightened by a few impacts of an impact wrench or the full force of a worker using an ordinary spud wrench.

All cost associated with fabricating, furnishing, and installing the Steel Pipe Grate System including the steel pipes, steel plates, bolts, nuts and washers shall be included in the contract unit price "Foot" for Traversable Pipe Grate.

Traversable Pipe Grate = (10'-0")/(CONCRETE END SECTION, (STANDARD 542001), 15" 1:6)



\*\* Measured perpendicular to top of culvert wall. In addition, formed hole shall be located a minimum of 6" measured horizontally from any vertical joints necessary for construction of the culvert end section.

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

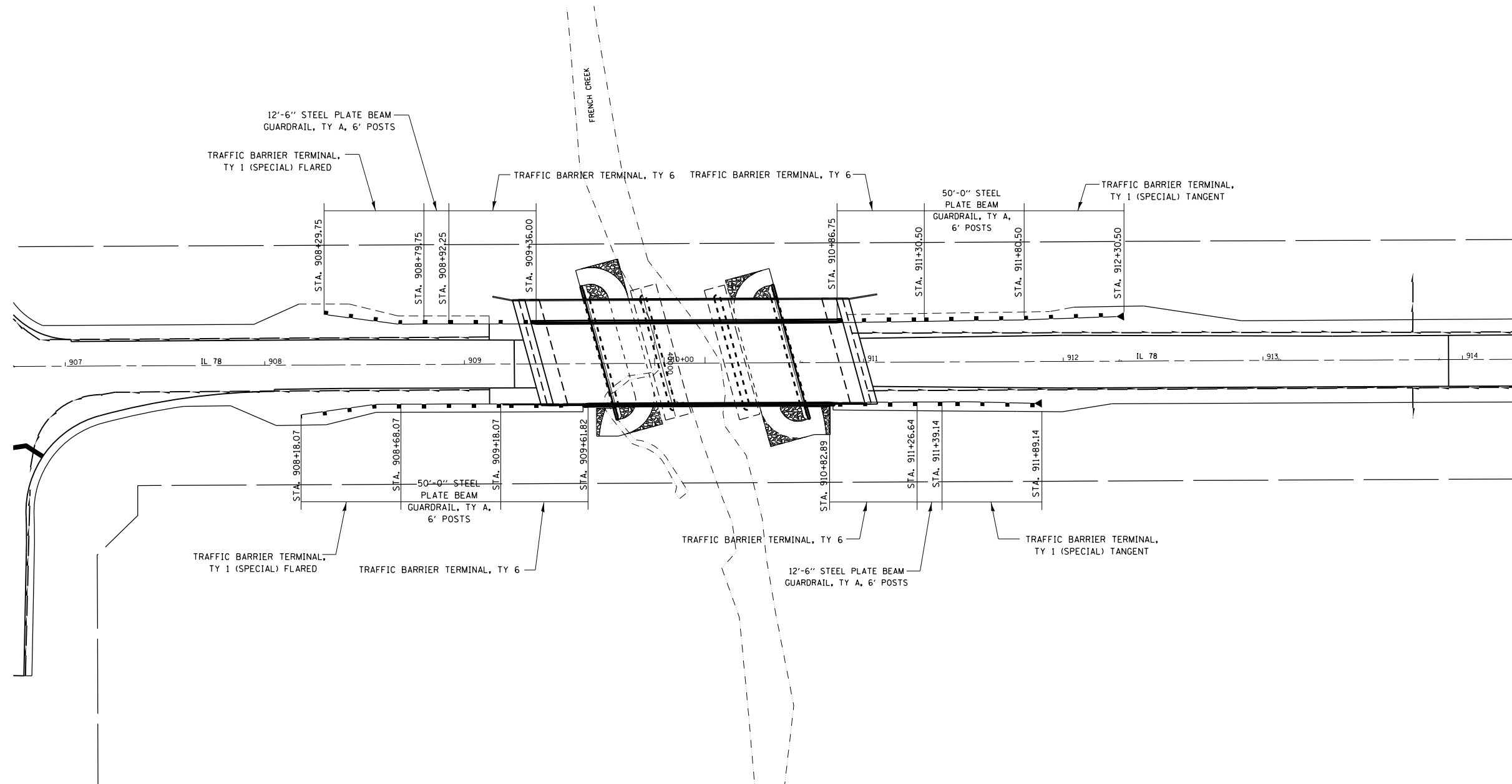
**GRATING FOR CONCRETE END SECTION,  
(STANDARD 542001), 15" 1:6; RT STA. 916 + 50.00**

SCALE: \_\_\_\_\_ SHEET NO. 1 OF 1 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

IL 78	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• 22	15BR-1	WHITESIDE	146	95	
CONTRACT NO. 64F19					
ILLINOIS FED. AID PROJECT					

# GUARDRAIL DETAIL

STA. 910 + 17.00  
SN 098-0118



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

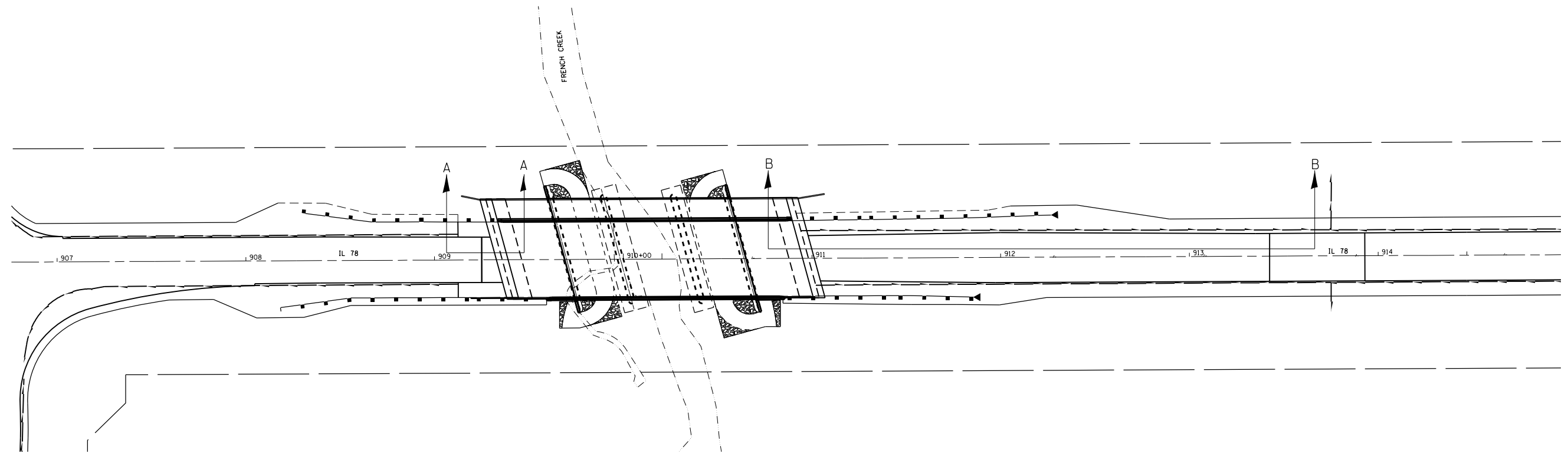
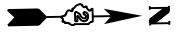
GUARDRAIL DETAIL  
SN 098-0118

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

• IL 78		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		*22	15BR-1	WHITESIDE	146	96
					CONTRACT NO. 64E19	
ILLINOIS FED. AID PROJECT						

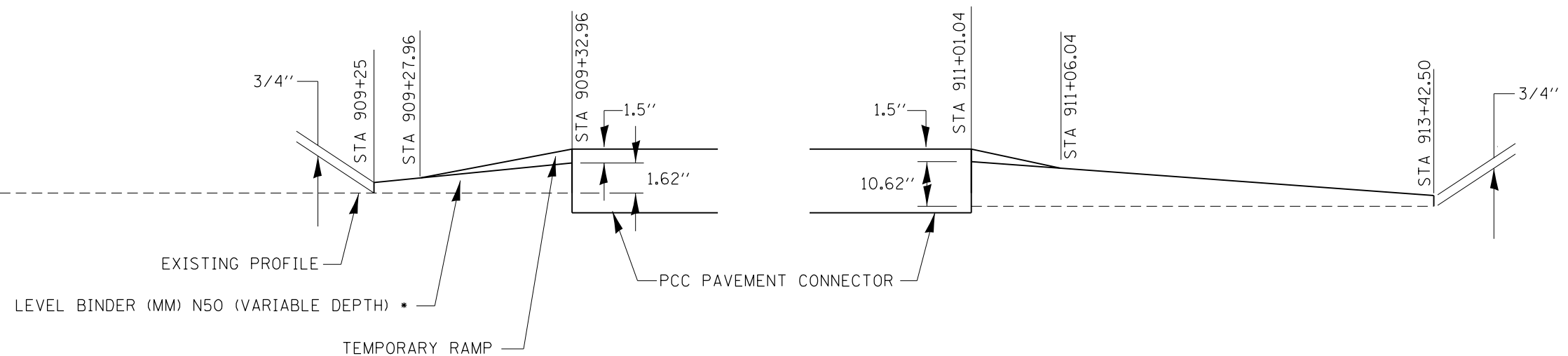
# LEVEL BINDER (MM) N50 DETAIL

STA. 910 + 17.00  
SN 098-0118



SECTION A-A

SECTION B-B



\* LEVEL BINDER TO BE 1 1/2" LOWER THAN TOP OF PCC CONNECTOR TO ACCOMMODATE FOR FINAL SURFACE.

FILE NAME =	USER NAME = Fasslermj	DESIGNED -	REVISED -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

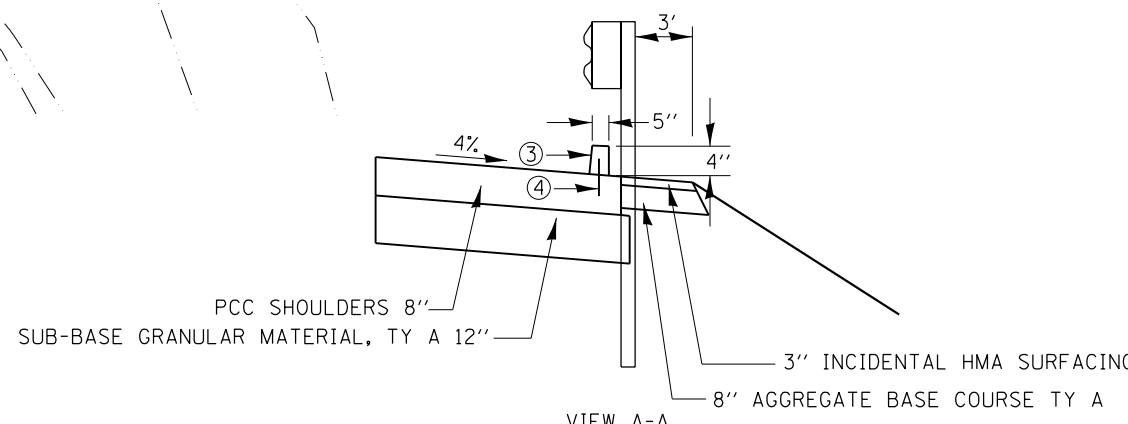
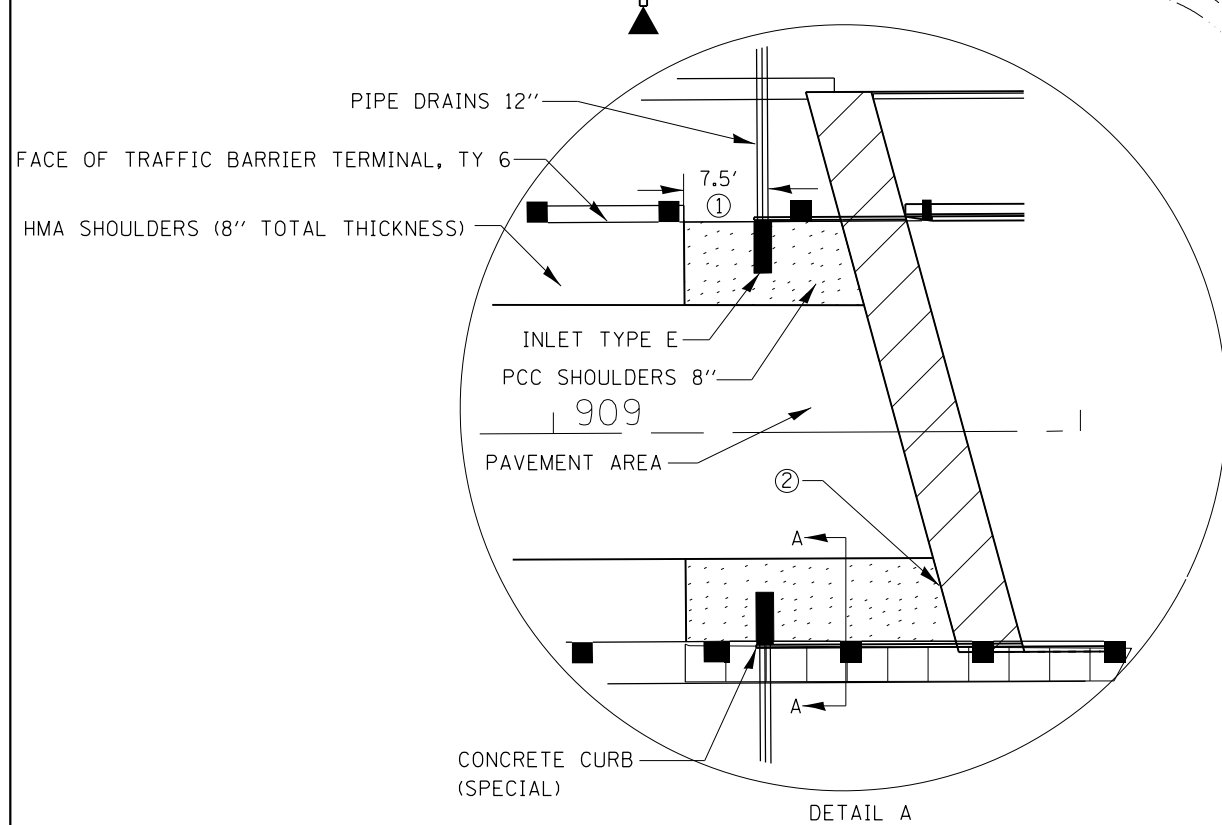
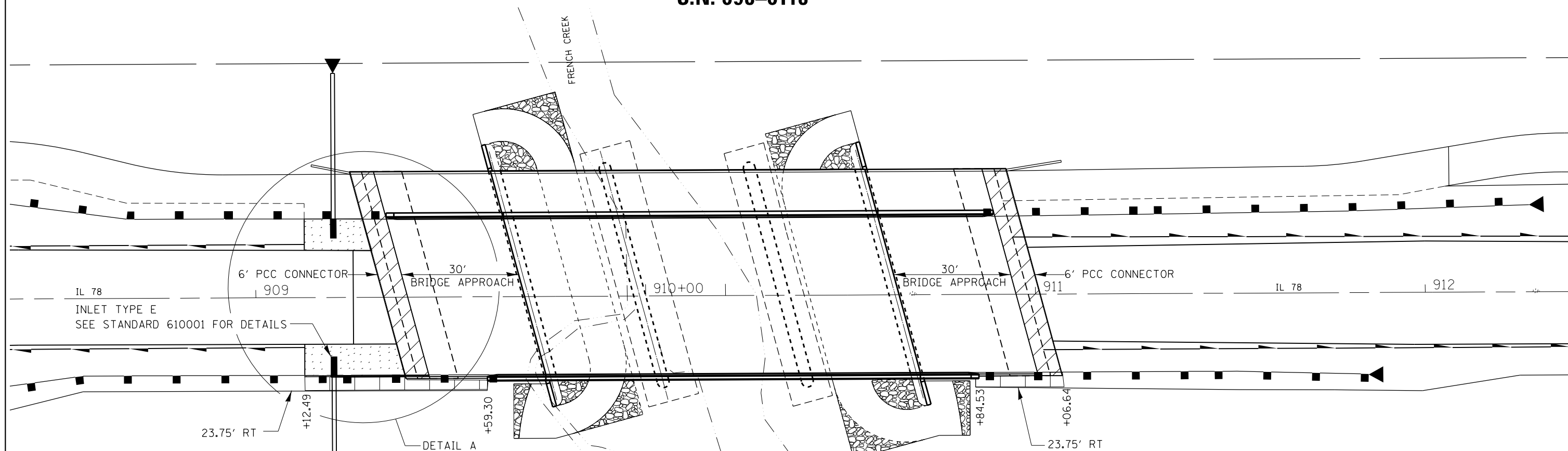
LEVEL BINDER (MM) N50 DETAIL  
SN 098-0118

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE. #22	SECTION 15BR-1	COUNTY WHITESIDE	TOTAL SHEETS 146	SHEET NO. 97
	CONTRACT NO. 64E19			
ILLINOIS FED. AID PROJECT				

# SHOULDER INLET TYPE E WITH CURB DETAIL

S.N. 098-0118



**NOTES:**

- ① INCREASE OR DECREASE THIS DIMENSION AS NEEDED TO POSITION THE INLET BOX AND PIPE DRAIN BETWEEN THE PROPOSED APPROACH GUARDRAIL POSTS
- ② SEE STANDARD 420001 FOR JOINT DETAILS
- ③ CONCRETE CURB (SPECIAL). SEE DISTRICT STANDARD 11.4 FOR DETAILS
- ④ THE VERTICAL NO. 4 BARS MAY BE PLACED AND TIED SECURELY BETWEEN THE CONCRETE CURB (SPECIAL) AND THE PCC SHOULDERS 8" IN LIEU OF DRILLING AND GROUTING THEM AS DISTRICT STANDARD 11.4 SHOWS AS LONG AS BOTH THE CURB AND SHOULDER ARE POURED AT THE SAME TIME

**LEGEND**

	BRIDGE APPROACH
	3" INCIDENTAL HMA SURFACING
	8" AGGREGATE BASE COURSE TY B
	PAVEMENT CONNECTOR (PCC)
	PORTLAND CEMENT CONCRETE SHOULDERS 8"

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PLOT DATE = Fri Jun 13 10:58:53 2014		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SHOULDER INLET TYPE E WITH CURB</b>			
<b>S.N. 098-0118</b>			
SCALE: _____	SHEET NO. ____ OF ____ SHEETS	STA. _____ TO STA. _____	

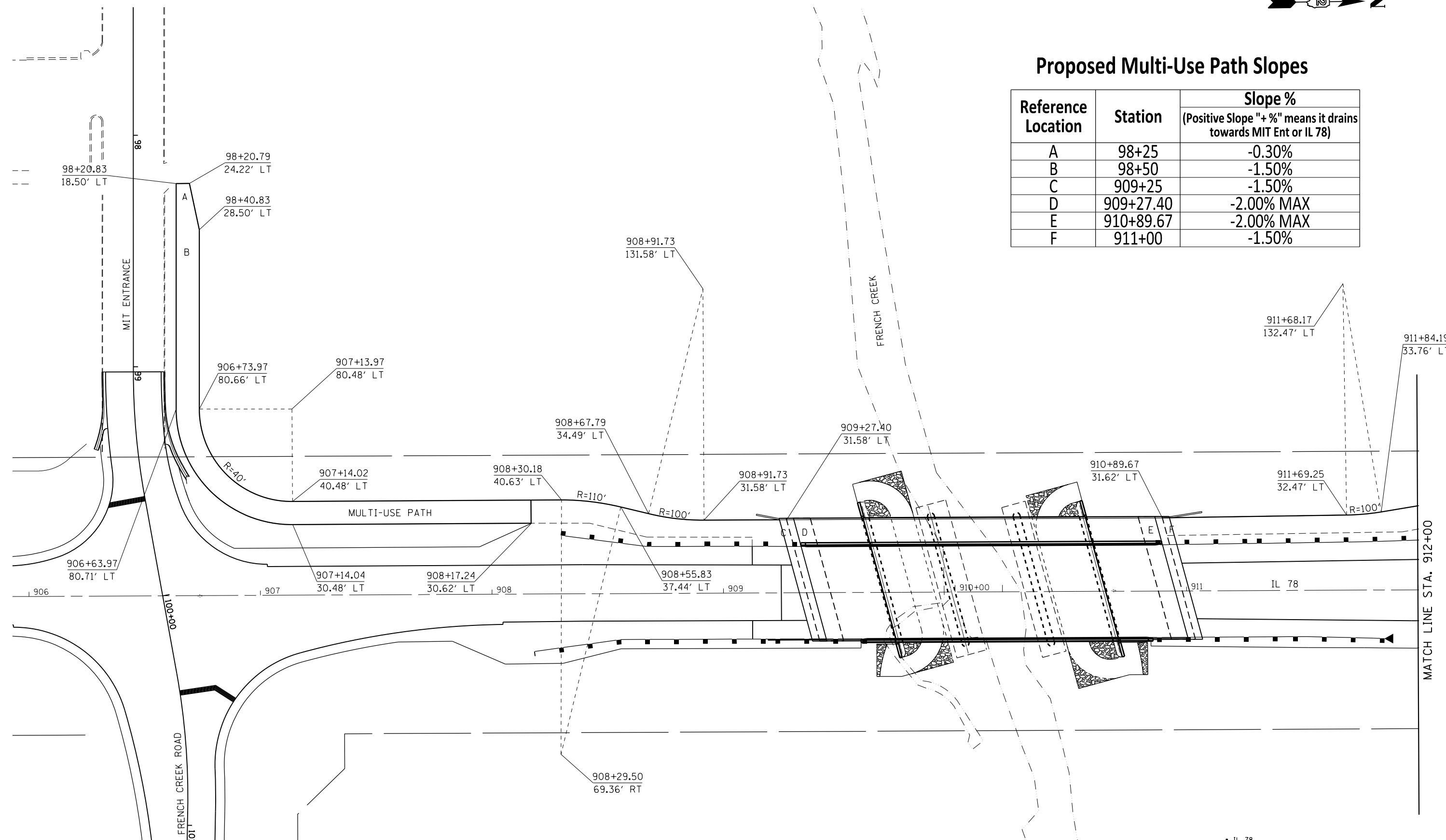
• IL 78				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-22	WHITESIDE	WHITESIDE	146	98
			CONTRACT NO. 64F19	
ILLINOIS FED. AID PROJECT				

# MULTI-USE PATH DETAIL



## Proposed Multi-Use Path Slopes

Reference Location	Station	Slope %
		(Positive Slope "+ %" means it drains towards MIT Ent or IL 78)
A	98+25	-0.30%
B	98+50	-1.50%
C	909+25	-1.50%
D	909+27.40	-2.00% MAX
E	910+89.67	-2.00% MAX
F	911+00	-1.50%



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MULTI-USE PATH DETAIL

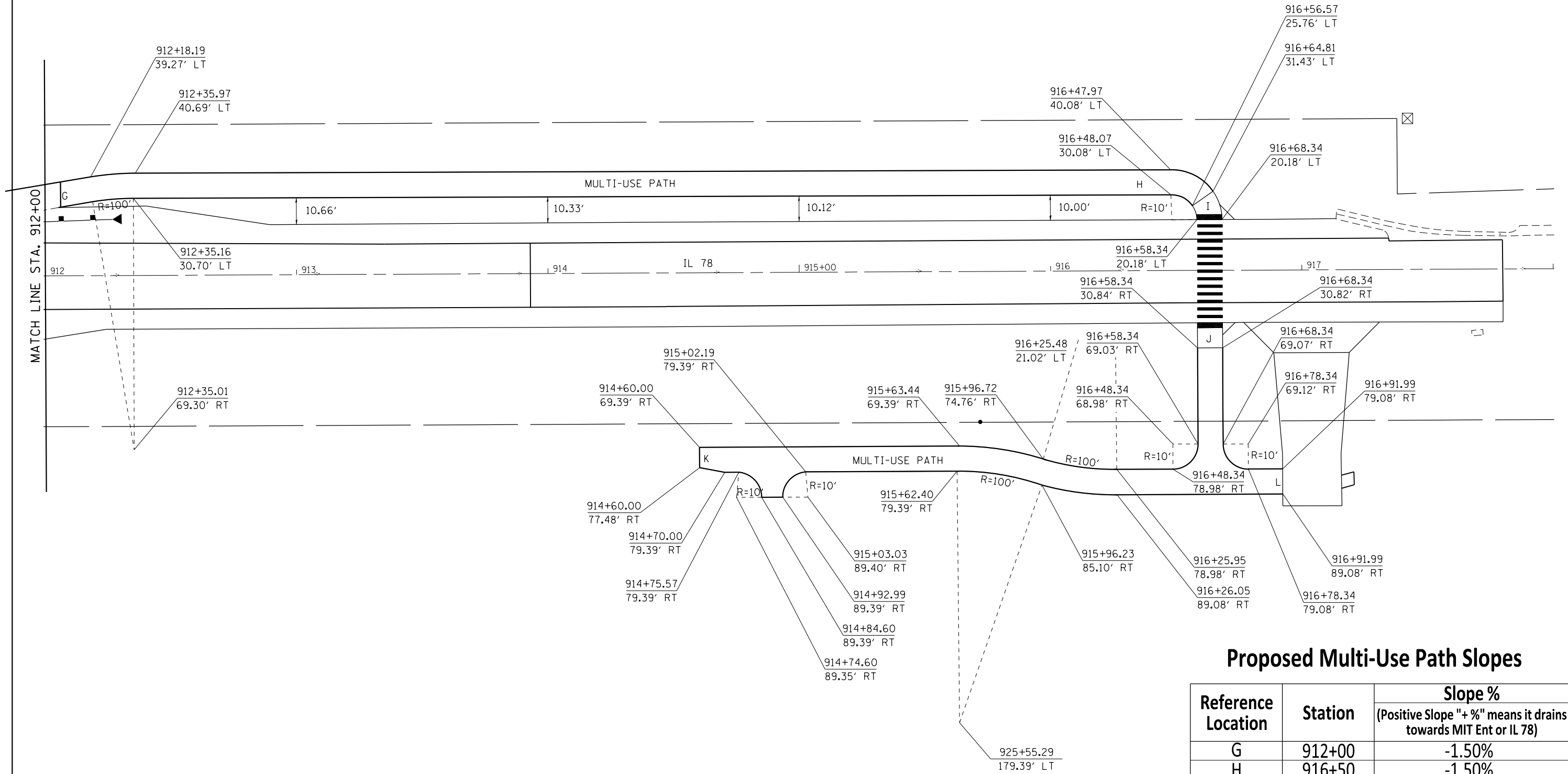
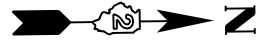
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-22	15BB-1	WHITESIDE	146	99
CONTRACT NO. 64E19				

• IL 78  
ILLINOIS FED. AID PROJECT

MATCH LINE STA. 912+00

# MULTI-USE PATH DETAIL



## Proposed Multi-Use Path Slopes

Reference Location	Station	Slope %
		(Positive Slope "+" % means it drains towards MIT Ent or IL 78)
G	912+00	-1.50%
H	916+50	-1.50%
I	916+58.34	0%
J	916+58.34	0%
K	914+75	-1.50%
L	916+75	-1.50%

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PLOT DATE = Fri Jun 13 10:59:34 2014		DATE -	REVISD -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

MULTI-USE PATH DETAIL	
SCALE: _____	SHEET NO. ____ OF ____ SHEETS
STA. _____	TO STA. _____

IL 78	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	+22	15BB-1	WHITESIDE	146	100
				CONTRACT NO. 64E19	
ILLINOIS FED. AID PROJECT					