

CO. HWY#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
31	08-00073-10-WR	McLEAN	9	1

INDEX OF SHEETS

- Cover Sheet
- Existing Typical Cross Section
- Proposed Typical Cross Section
- 4-6. Plan View
- 7-8. Details
9. Intersection Detail

STATE STANDARD DETAILS

630106-00	LONG-SPAN GUARD RAIL OVER CULVERT
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-03	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45 MPH
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
701901-01	TRAFFIC CONTROL DEVICES

B.L.R. 23-3 TRAFFIC BARRIER TERMINAL TYPE 1
 B.L.R. 26-2 STEEL PLATE BEAM GUARDRAIL 27 1/2" HEIGHT

SUMMARY OF QUANTITIES

ITEM NUMBER	ITEM	UNIT	QUANTITY
20200500	EARTH EXCAVATION (WIDENING)	CU YD	574
35501308	HOT-MIX ASPHALT BASE COURSE	SQ YD	360
35600700	HMA BASE COURSE WIDENING 6"	SQ YD	3445
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GAL.	2800
40600300	AGGREGATE (PRIME COAT)	TON	70
40600625	LEVELING BINDER - MACHINE METHOD, N50	TON	1250
40600982	SURFACE REMOVAL - BUTT JOINT	SQ YD	533
40600990	TEMPORARY RAMP	SQ YD	53
40603080	HMA BINDER COURSE IL-19.0 N50	TON	3,150
40603310	HMA SURFACE COURSE "C" N50	TON	2,000
40800010	BITUMINOUS MATERIALS (PRIME COAT)	GAL.	60
40800030	AGGREGATE (PRIME COAT)	TON	3
40800050	INCIDENTAL HMA SURFACE	TON	150
44300100	AREA REFLECTIVE CRACK CONTROL TR	SQ YD	27,560
48101200	AGGREGATE SHLDS B	TON	2,100
60255500	MANHOLES TO BE ADJUSTED	EACH	1
60266600	VALVE BOXES TO BE ADJUSTED	EACH	3
60609800	COMB. CONCRETE CURB & GUTTER, TYPE M-6.18	LF	236.5
* 63000001	SPBGR, TYPE A, 6' POSTS	LF	200
* 63000350	LONG-SPAN GUARD RAIL OVER CULVERT, 12' -6" SPAN	LF	325
* 63300925	VERTICAL ADJ OF TRAF BARR TERM, TYPE 1	EACH	2
67100100	MOBILIZATION	L SUM	1
X7010216	TRAFFIC CONTROL & PROTECTION (SPECIAL)	L SUM	1
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	128
* LR631020	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	6
* Z0000200	ADJUST EXISTING GUARDRAIL	LF	275

* SPECIALTY ITEMS

THESE PLANS ARE NOT TO SCALE

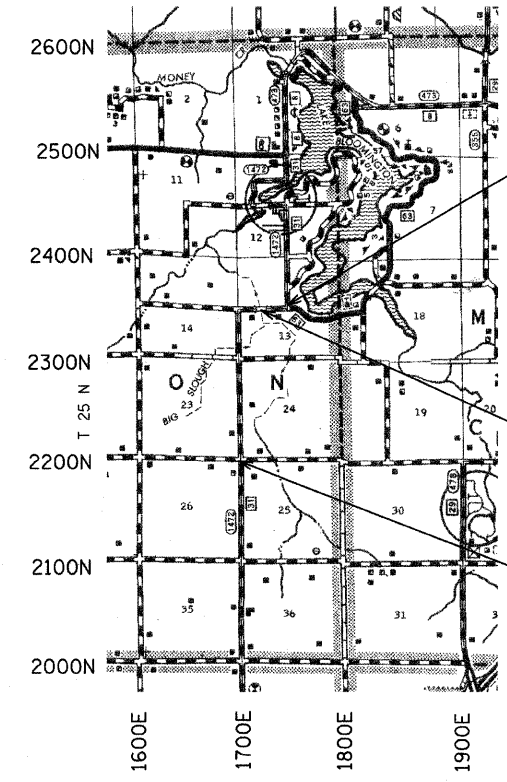
J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123 OR 811

CONTRACT NO. 91456

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS
**PROPOSED
 HIGHWAY PLANS**

F.A.S. ROUTE 1472
 SECTION 08-00073-10-WR
 PROJECT RS-1472(105)
 WIDEN AND RESURFACE
 MCLEAN COUNTY
 PIPELINE RD (CH 31)
 JOB NO: C-95-317-11



IMPROVEMENT ENDS STA: 346 + 35.46
 OMISSION = 48.04'
 STA: 346 + 35.46 TO STA: 346 + 83.50

BRIDGE OMISSION = 108.66'
 STA: 330 + 50.80 TO 331 + 59.46

IMPROVEMENT BEGINS STA: 241 + 92.50
 OMISSION = 90'
 STA: 241 + 02.50 TO STA 241 + 92.50

NOTE: THE TOTAL LENGTH OF THE PROPOSED PROJECT IS 10,581' FEET WITH A NET LENGTH OF 10,334.30' FEET (1.957 MILES)

NOTE: THESE PLANS MEET THE MINIMUM REQUIREMENTS FOR A 3R IMPROVEMENT.

NOTE: CURRENT ADT: 1200
 FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR



ILLINOIS PROFESSIONAL ENGINEER #57636
 EXPIRES 11-30-11



LOCATION OF SECTION INDICATED THUS: - [shaded box] -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY

Approved: 2/24/2011
 [Signature]
 County Engineer

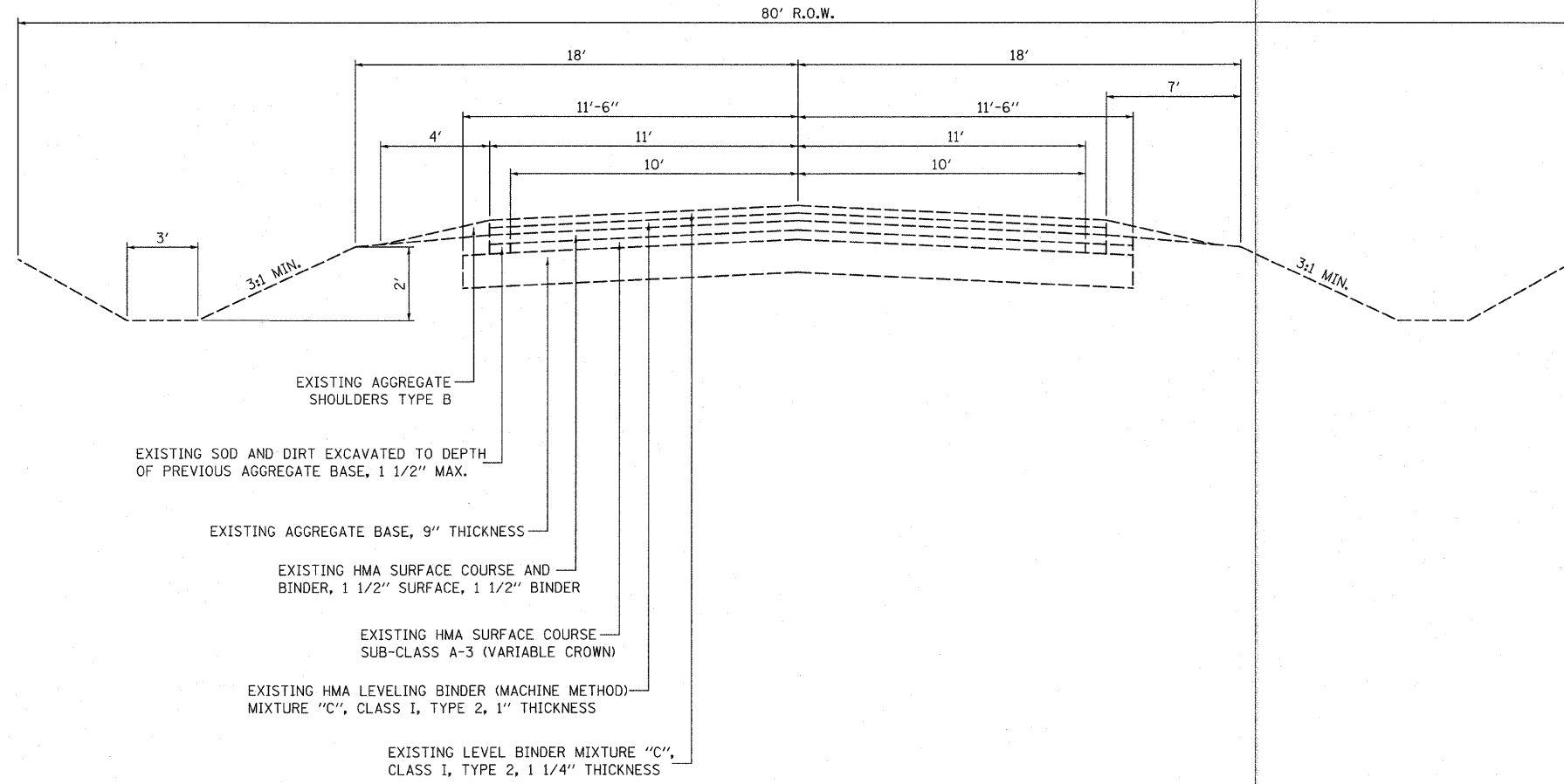
Passed: March 11, 2011
 [Signature]
 District Five Engineer of
 Local Roads & Streets

Releasing For Bid Based on Limited Review: March 11, 2011
 [Signature]
 Deputy Director of Highways,
 Region Three Engineer

**PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS**

EXISTING TYPICAL CROSS SECTION

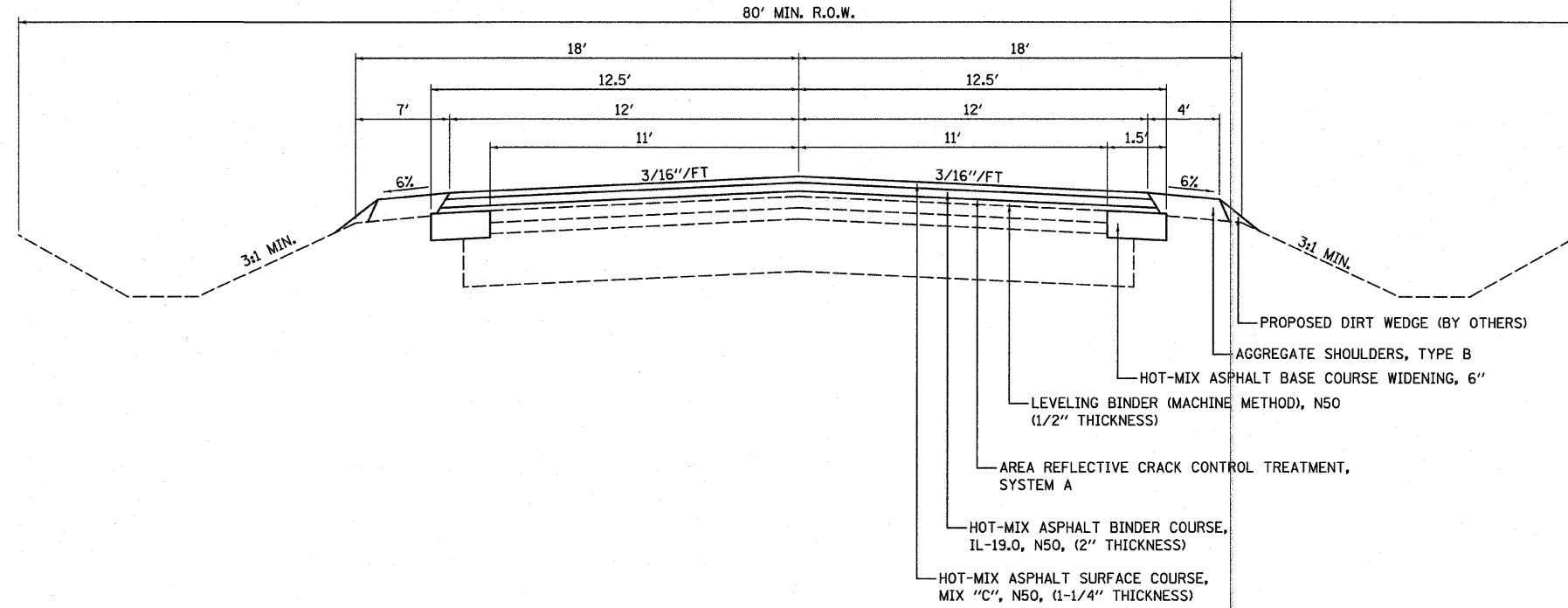
SEC. 08-00073-10-WR
 PIPELINE RD (CH 31)
 STA: 241+92.50 TO 330+50.80
 STA: 331+59.46 TO 346.35.46



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PLOT SCALE = SCALES		CHECKED -	REVISED -			COUNTY HIGHWAY 31		CONTRACT NO. 91456			
PLOT DATE = DATES		DATE -	REVISED -			SCALE: NO SCALE	SHEET NO. 1	OF 1 SHEETS	STA. 241+25	TO STA. 320+00	FED. ROAD DIST. NO. 5

PIPELINE RD (CH 31)

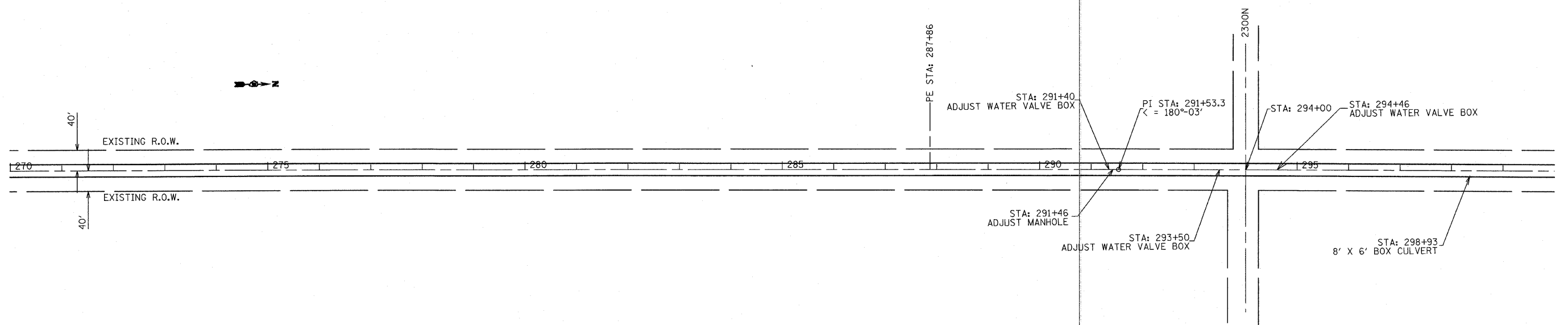
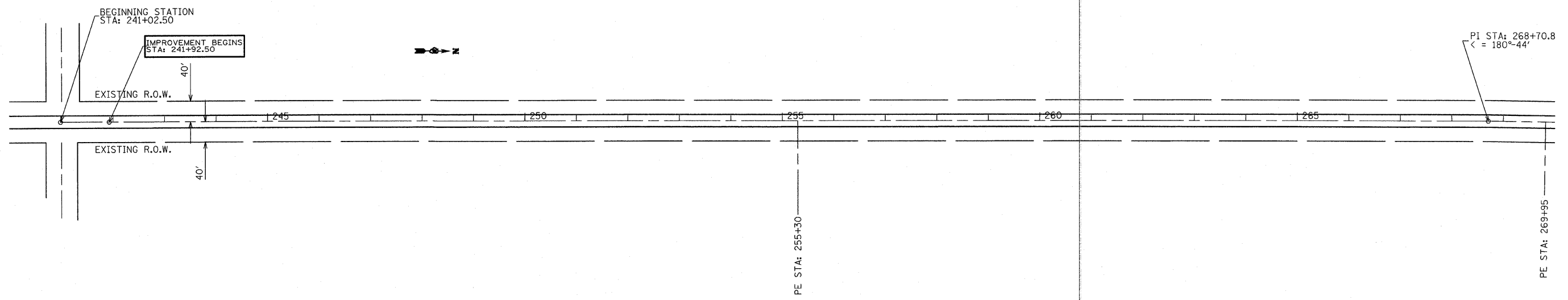
PROPOSED TYPICAL CROSS SECTION
 STA: 241+92.50 TO 330+50.80
 331+59.46 TO 346+35.46



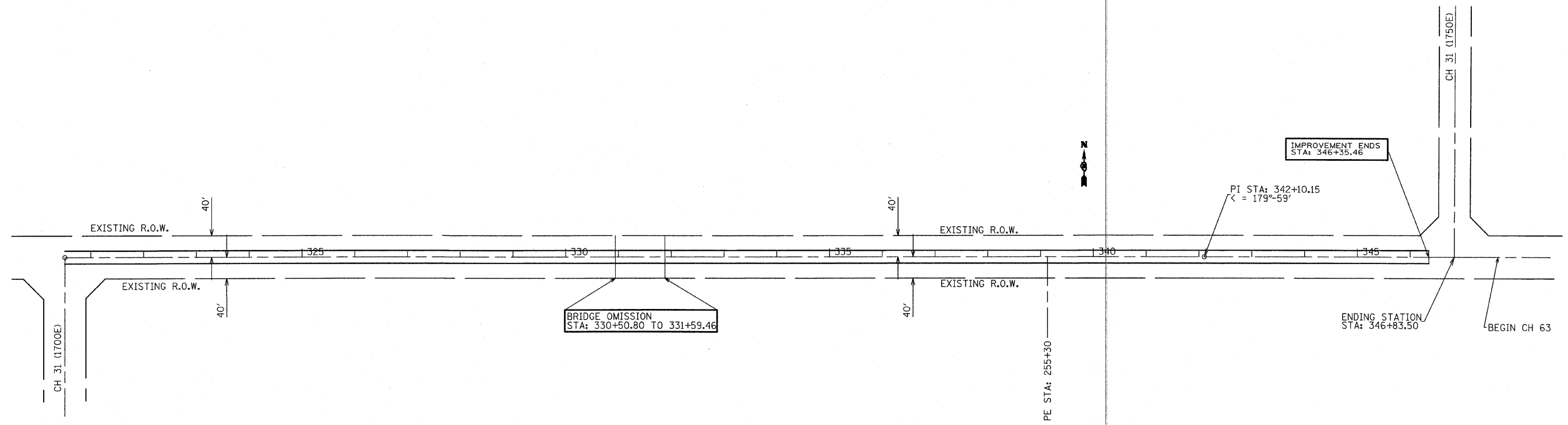
STRUCTURAL DESIGN DATA 80,000#
 CLASS III ROAD DESIGN PERIOD 20 YEARS
 STRUCTURAL DESIGN TRAFFIC: 1537 YEAR: 2021
 PERCENT OF DESIGN TRAFFIC IN DESIGN LANE:
 P.C. 88% S.U. 7% M.U. 5%
 P.C. 1353 S.U. 108 M.U. 77
 MINIMUM SOIL SUPPORT: IBR= 3.0
 TRAFFIC FACTOR (T.F.)= 0.415
 STRUCTURAL NUMBER (Dt): 3.7
 PAVEMENT STRUCTURE MATERIALS:
 SURFACE: PROPOSED HOT-MIX ASPHALT 3.75" @ 0.40 a1= 1.50
 BASE: EXISTING BITUMINOUS CONCRETE 2.25" @ 0.30 a2= 0.68
 BASE: EXISTING BITUMINOUS CONCRETE 3" @ 0.12 a3= 0.69
 SUBBASE: EXISTING AGGREGATE BASE COURSE 9" @ 0.06 a4= 0.90

PROPOSED (Dt) TOTAL= 3.77

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PLOT SCALE = SCALES	CHECKED =	REVISED =		SCALE: NO SCALE	SHEET NO. 1 OF 1 SHEETS	STA. 241+25 TO STA. 320+00	COUNTY HIGHWAY 31	CONTRACT NO. 91456		
PLOT DATE = DATES	DATE =	REVISED =				FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

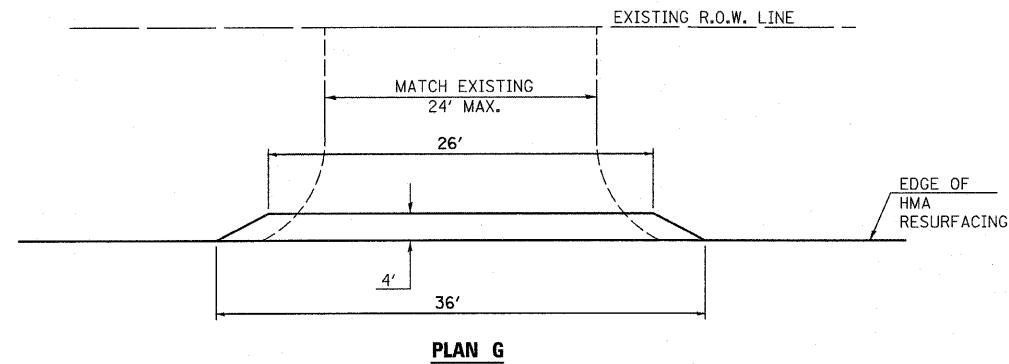


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					SCALE: NO SCALE	SHEET NO. 1 OF 3 SHEETS		STA. 241+02.50 TO STA. 320+50.00		

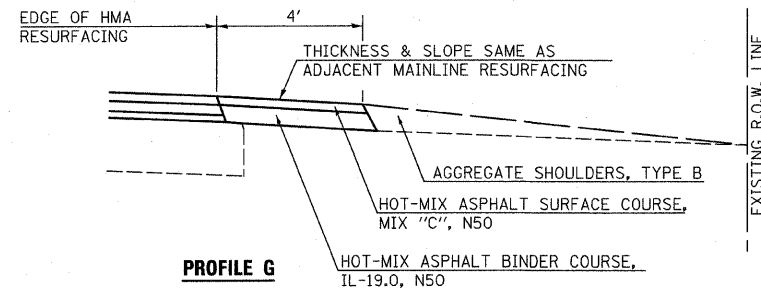


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		DATE -	REVISED -	SCALE: NO SCALE		SHEET NO. 3 OF 3 SHEETS		STA. 320+50.80 TO STA. 346+83.50		

TYPICAL FIELD ENTRANCE
8 @ 13.8 SQ YDS



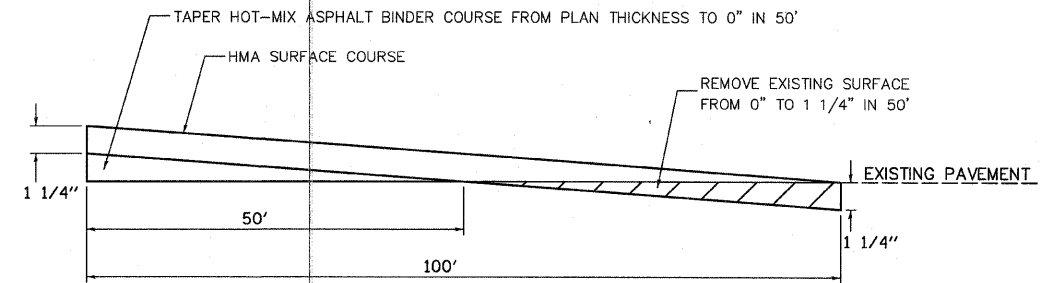
PLAN G



PROFILE G

TYPICAL HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT

- 1 @ 133.3 SQ YDS STA: 241+70.50 (BEGINNING STATION)
- 1 @ 133.3 SQ YDS STA: 346+35.46 (ENDING STATION)
- 1 @ 133.3 SQ YDS STA: 330+50.80 (BRIDGE)
- 1 @ 133.3 SQ YDS STA: 331+59.46 (BRIDGE)



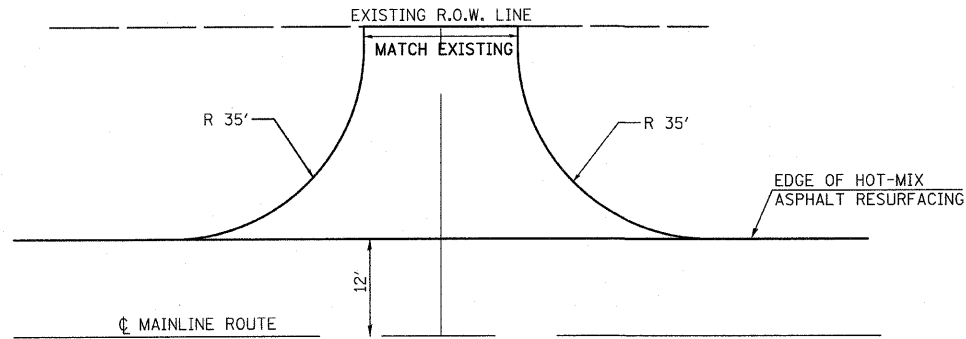
NOTES:

1. ALL TEMPORARY & PERMANENT PAVEMENT STRIPING WILL BE DONE BY OTHERS.
2. ALL FIELD ENTRANCES SHALL BE CONSTRUCTED WITH THE EXTENDABLE SCREED WIDENER AND PAID FROM HOT-MIX ASPHALT BINDER AND SURFACE COURSES.
3. ALL SIDE ROAD RETURNS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES AND RURAL MAILBOX TURNOUTS ARE TO BE CONSTRUCTED AND PAID FROM INCIDENTAL HOT-MIX ASPHALT SURFACING.
4. AGGREGATE SHOULDERS SHALL BE PLACED ALONG ALL SIDEROAD RETURN RADII AND SHALL BE PLACED ALONG AND BEHIND ALL FIELD ENTRANCES, GUADRIL AND GUADRIL RUNOUTS, MAILBOX TURNOUTS AND ALL PRIVATE AND COMMERCIAL ENTRANCES UNLESS SPECIFIED BY THE RESIDENT ENGINEER.

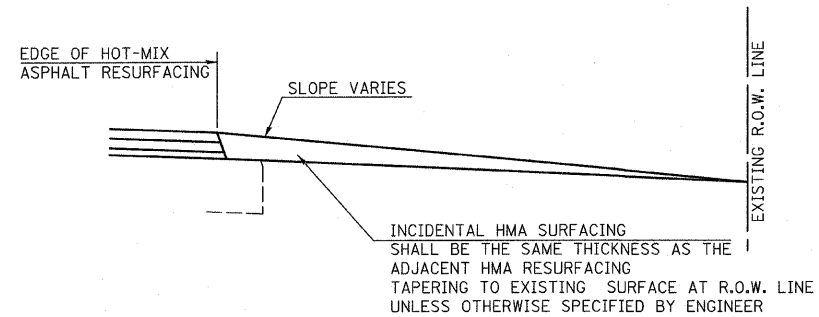
STEEL PLATE BEAM GUARD RAIL SCHEDULE

STATION	APPROACH (FT.)	DEPARTURE (FT.)	OVER CULVERT (FT.)	TOTAL (FT.)	TYPE 1 TERMINAL (EA.)	ADJUST GUADRIL (FT.)	ADJUST TYPE 1 TERMINAL (EA.)
298+93 LT.	37.5		162.5	200	2		
298+93 RT.	37.5		162.5	200	2		
331+05 LT.	62.5			62.5	1	137.5	1
331+05 RT.	62.5			62.5	1	137.5	1
TOTALS	200		325	525	6	275	2

TYPICAL RURAL SIDE ROAD DETAIL
3 @ 128.5 SQ YDS (2300N AND 2350N)



PLAN H

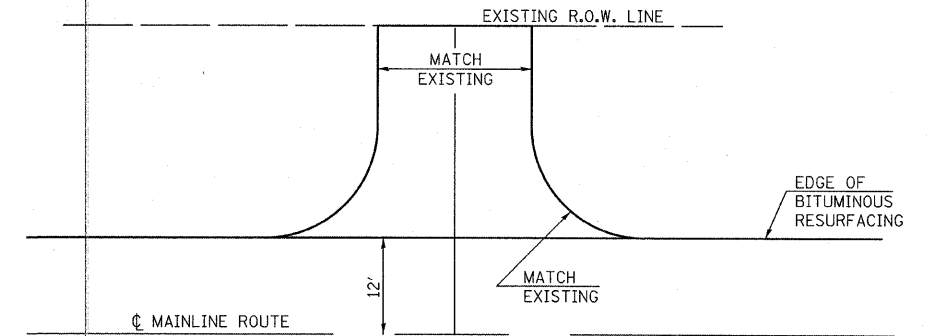


PROFILE H

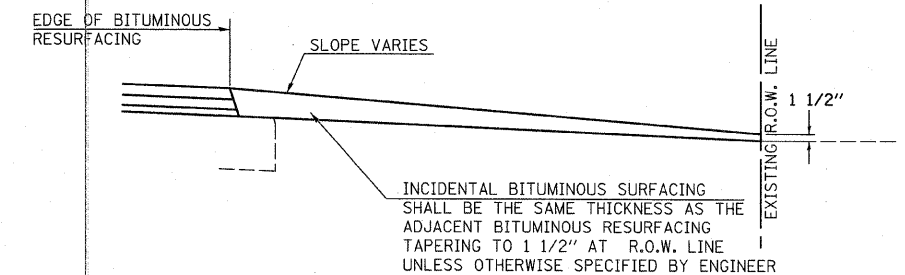
NOTES:

1. ALL TEMPORARY & PERMANENT PAVEMENT STRIPING WILL BE DONE BY OTHERS.
2. ALL FIELD ENTRANCES SHALL BE CONSTRUCTED WITH THE EXTENDABLE SCREED WIDENER AND PAID FROM HOT-MIX ASPHALT BINDER AND SURFACE COURSES.
3. ALL SIDE ROAD RETURNS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES AND RURAL MAILBOX TURNOUTS ARE TO BE CONSTRUCTED AND PAID FROM INCIDENTAL HOT-MIX ASPHALT SURFACING.
4. AGGREGATE SHOULDERS SHALL BE PLACED ALONG ALL SIDEROAD RETURN RADII AND SHALL BE PLACED ALONG AND BEHIND ALL FIELD ENTRANCES, GUADRIL AND GUADRIL RUNOUTS, MAILBOX TURNOUTS AND ALL PRIVATE AND COMMERCIAL ENTRANCES UNLESS SPECIFIED BY THE RESIDENT ENGINEER.

TYPICAL RURAL PRIVATE ENTRANCE
3 @ 65.8 SQ. YDS.

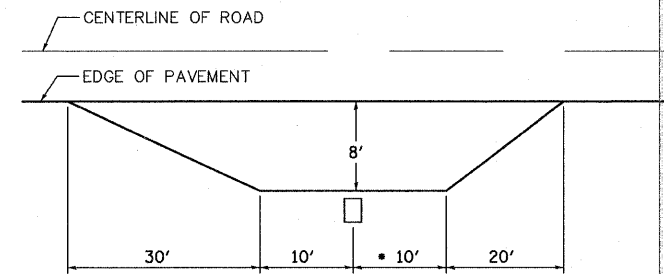


PLAN F

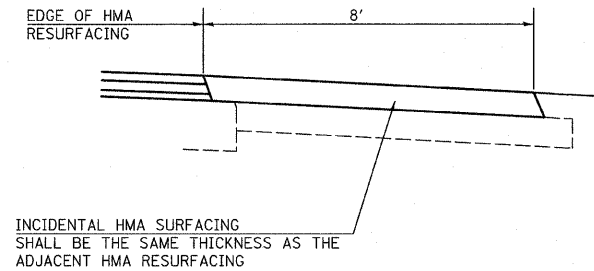


PROFILE F

TYPICAL RURAL MAILBOX TURNOUT
3 @ 41 SQ YD EACH

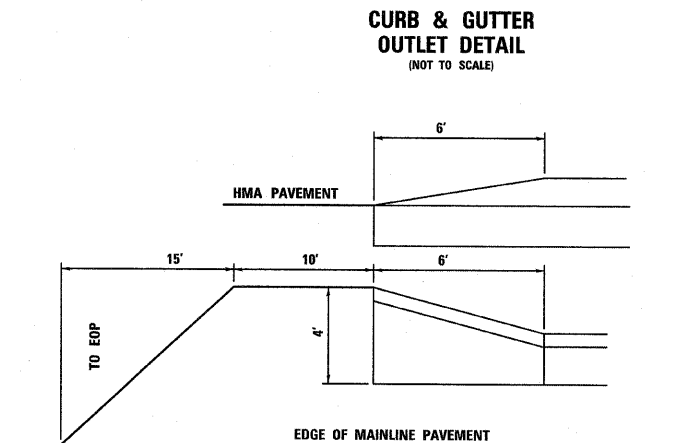
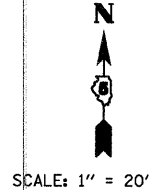
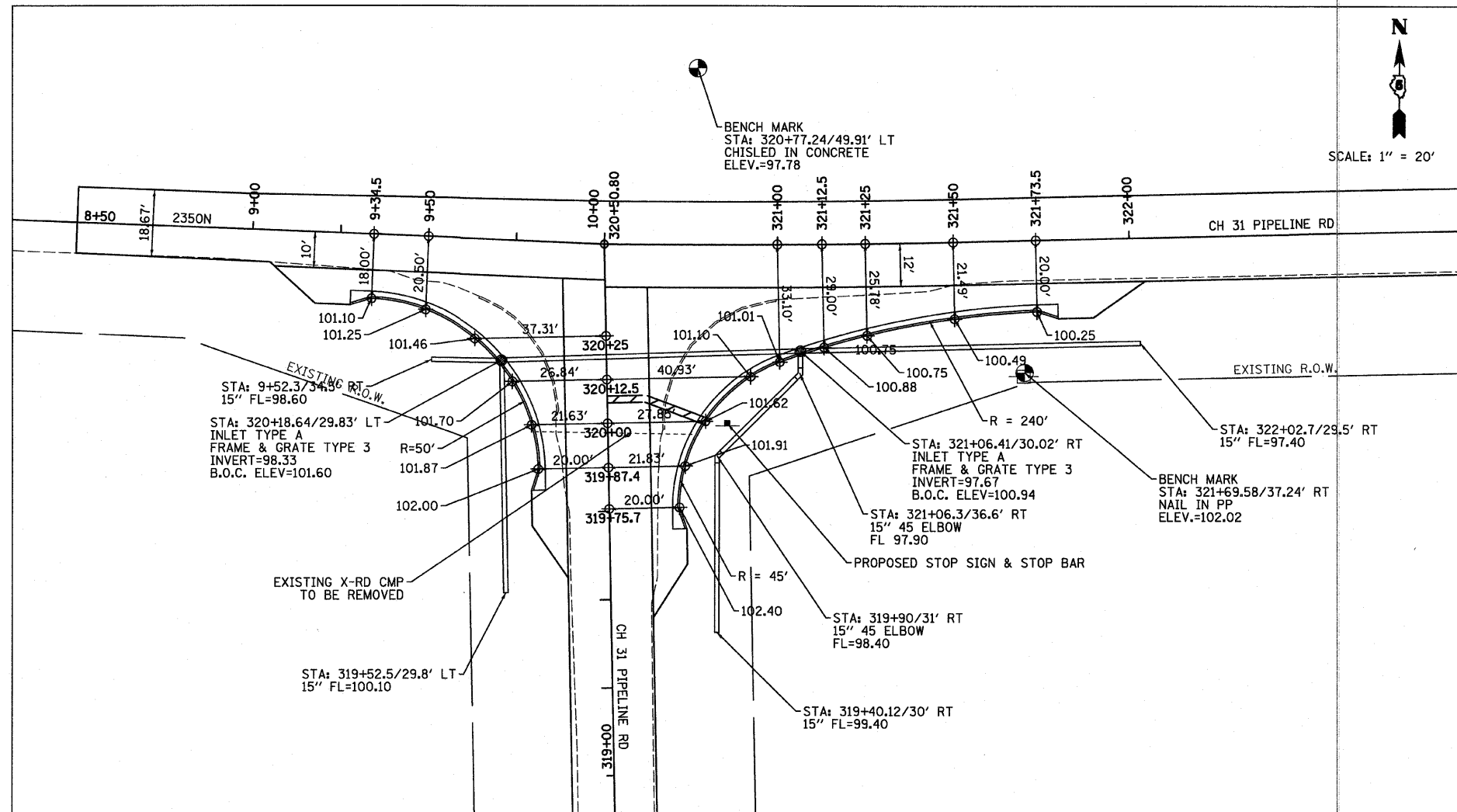


PLAN H



PROFILE H

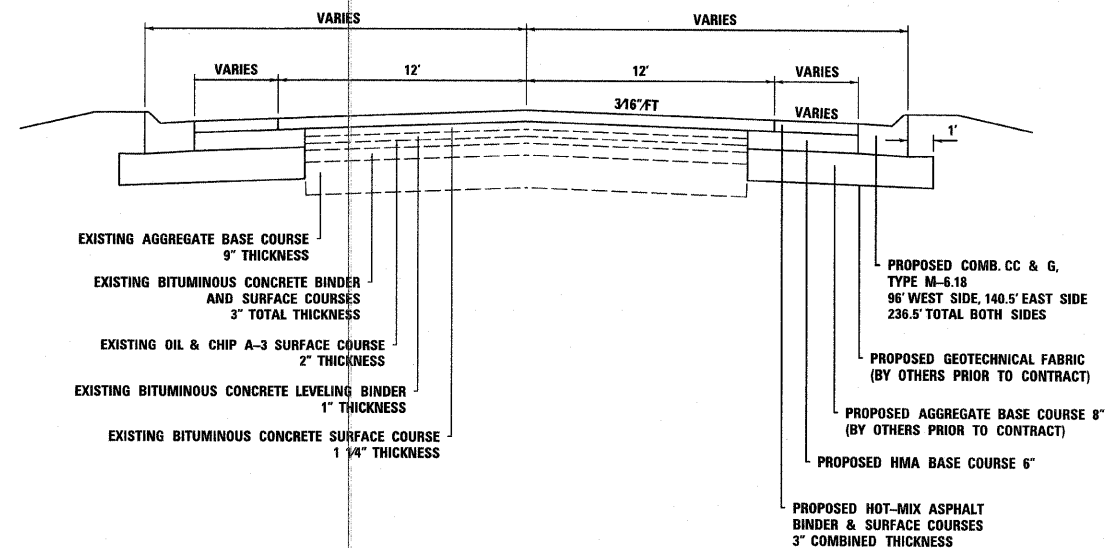
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SFILES		DRAWN --	REVISED --			428	08-00073-10-WR	McLEAN	9	8
PLOT SCALE = SCALES		CHECKED --	REVISED --			COUNTY HIGHWAY 31		CONTRACT NO. 91456		
PLOT DATE = SDATES		DATE --	REVISED --			SCALE:	SHEET NO. 2 OF 2 SHEETS	STA. 241+25	TO STA. 346+83.5	FED. ROAD DIST. NO. 3



INTERSECTION NOTES

- EARTH EXCAVATION AND CURB & GUTTER REMOVAL BY OTHERS PRIOR TO CONTRACT.
- ALL PIPE CULVERT WORK INCLUDING SETTING THE INLETS TO BE DONE BY OTHERS PRIOR TO THE CONTRACT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SET THE FRAME AND GRATE TYPE 3 (PROVIDED BY OTHERS) TO GRADE AND INCORPORATE INTO PROPOSED CURB & GUTTER. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT UNIT PRICE OF COMBINATION CONCRETE CURB & GUTTER, TYPE M-6.18. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- AGGREGATE BASE COURSE, TYPE B 8" BY OTHERS PRIOR TO CONTRACT.
- CURB & GUTTER OFFSETS AND ELEVATIONS ARE TO BACK OF CURB.
- HOT-MIX ASPHALT BASE COURSE 6 INCH QUANTITY = 360 SQ. YDS. INCLUDED IN PLAN QUANTITY FOR HOT-MIX ASPHALT BASE COURSE 6 INCH.
- COMBINATION CONCRETE CURB & GUTTER, TYPE M-6.18 QUANTITY = 236.5'. INCLUDED IN PLAN QUANTITY FOR COMBINATION CONCRETE CURB & GUTTER, TYPE M-6.18.
- CURB & GUTTER OUTLETS, SHALL BE PAID FOR AS COMBINATION CONCRETE CURB & GUTTER, TYPE M-6.18 AND MEASURED ALONG FACE OF CURB FOR PAYMENT BY THE FOOT AND IS INCLUDED IN PLAN QUANTITY, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- BACKFILLING BEHIND CURB & GUTTER TO THE SATISFACTION OF THE ENGINEER WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE CONSIDERED INCIDENTAL TO THE COST OF COMBINATION CONCRETE CURB & GUTTER, TYPE M-6.18 AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- HOT-MIX ASPHALT BINDER (52 TONS) AND SURFACE (26 TONS) COURSES IN RADII SHALL BE PAID FROM MAINLINE QUANTITIES AND IS INCLUDED IN PLAN QUANTITIES. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- HOT-MIX ASPHALT BINDER AND SURFACE COURSES ON 2350N SHALL BE PAID FROM MAINLINE QUANTITIES AND IS INCLUDED IN PLAN QUANTITIES.
- ALL TEMPORARY AND PERMANENT PAVEMENT STRIPPING SHALL BE DONE BY OTHERS.

INTERSECTION CROSS SECTION DETAIL



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#FILE#		DRAWN --	REVISED --
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	PLOT DATE = #DATE#	DATE --	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION DETAIL

SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. 319+00 TO STA. 322+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1472	08-00673-10-WR	McLEAN	9	9
COUNTY HIGHWAY 31			CONTRACT NO. 91456	
ILLINOIS FED. AID PROJECT				