BR. G-11.00

5/6

MONROE/MARION TWP.

Scale: 1"=20'

GUARDRAIL & DRIP STRIP DETAIL
NO SCALE

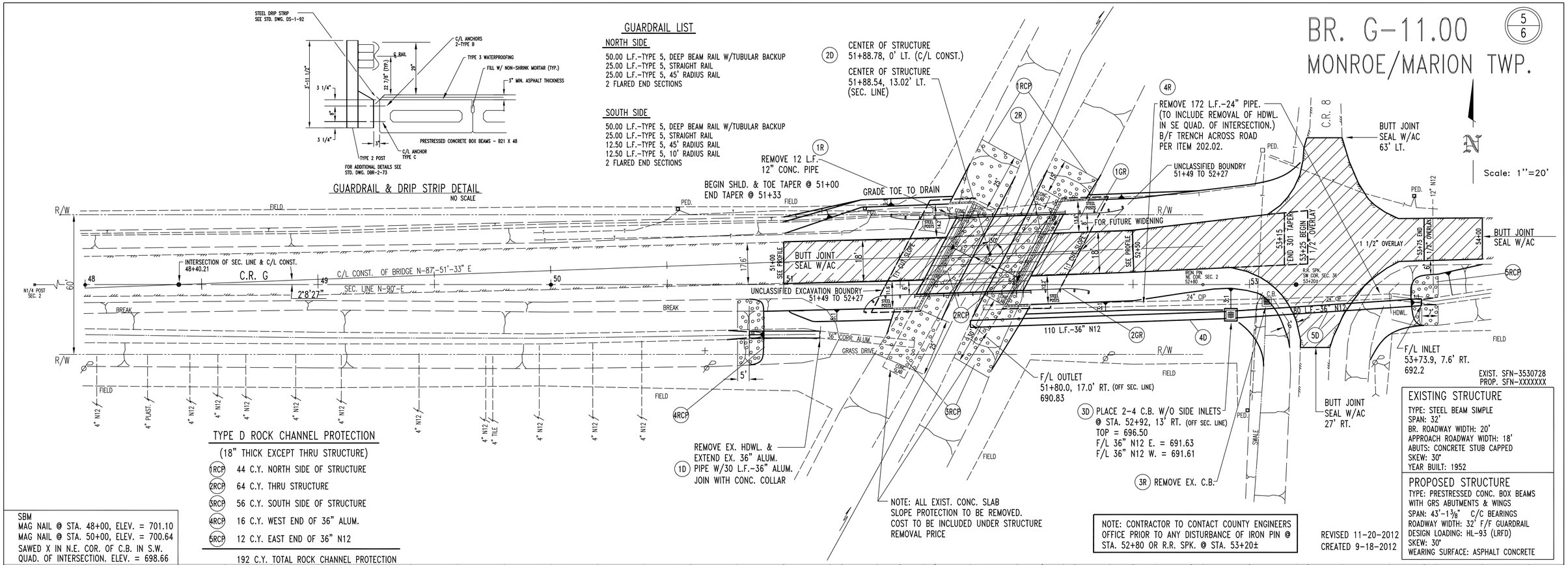
GUARDRAIL LIST

NORTH SIDE

50.00 L.F.-TYPE 5, DEEP BEAM RAIL W/TUBULAR BACKUP
25.00 L.F.-TYPE 5, STRAIGHT RAIL
25.00 L.F.-TYPE 5, 45' RADIUS RAIL
2 FLARED END SECTIONS

SOUTH SIDE

50.00 L.F.-TYPE 5, DEEP BEAM RAIL W/TUBULAR BACKUP
25.00 L.F.-TYPE 5, STRAIGHT RAIL
12.50 L.F.-TYPE 5, 45' RADIUS RAIL
12.50 L.F.-TYPE 5, 10' RADIUS RAIL
2 FLARED END SECTIONS



TYPE D ROCK CHANNEL PROTECTION

(18" THICK EXCEPT THRU STRUCTURE)

(1RCP)	44 C.Y. NORTH SIDE OF STRUCTURE
(2RCP)	64 C.Y. THRU STRUCTURE
(3RCP)	56 C.Y. SOUTH SIDE OF STRUCTURE
(4RCP)	16 C.Y. WEST END OF 36" ALUM.
(5RCP)	12 C.Y. EAST END OF 36" N12
	192 C.Y. TOTAL ROCK CHANNEL PROTECTION

SBM
MAG NAIL @ STA. 48+00, ELEV. = 701.10
MAG NAIL @ STA. 50+00, ELEV. = 700.64
SAWED X IN N.E. COR. OF C.B. IN S.W.
QUAD. OF INTERSECTION. ELEV. = 698.66

NOTE: CONTRACTOR TO CONTACT COUNTY ENGINEERS OFFICE PRIOR TO ANY DISTURBANCE OF IRON PIN @ STA. 52+80 OR R.R. SPK. @ STA. 53+20±

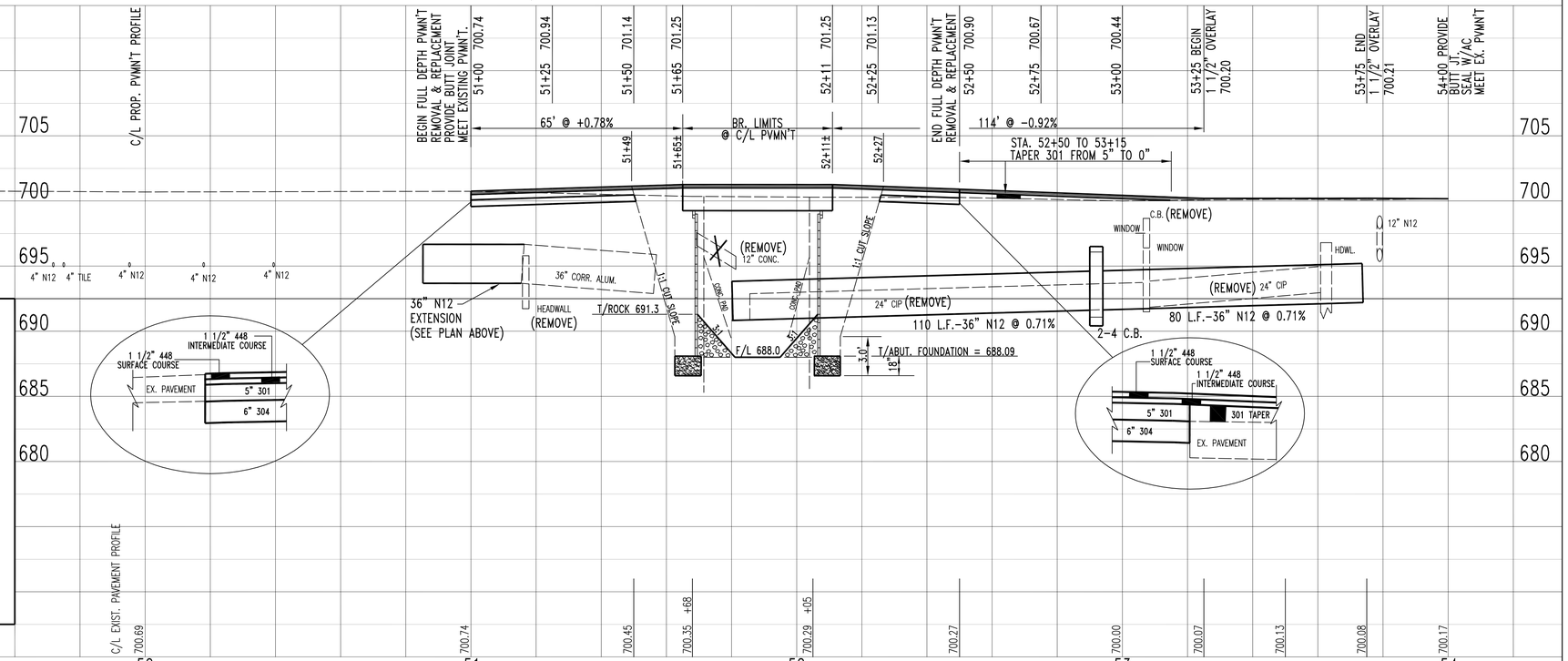
REVISED 11-20-2012
CREATED 9-18-2012

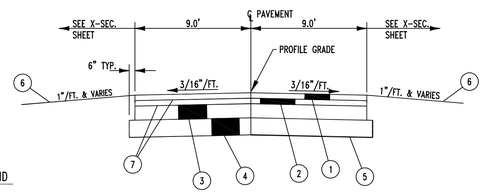
EXISTING STRUCTURE

TYPE: STEEL BEAM SIMPLE
SPAN: 32'
BR. ROADWAY WIDTH: 20'
APPROACH ROADWAY WIDTH: 18'
ABUTS: CONCRETE STUB CAPPED
SKEW: 30°
YEAR BUILT: 1952

PROPOSED STRUCTURE

TYPE: PRESTRESSED CONC. BOX BEAMS
WITH GRS ABUTMENTS & WINGS
SPAN: 43'-1 3/8" C/C BEARINGS
ROADWAY WIDTH: 32' F/F GUARDRAIL
DESIGN LOADING: HL-93 (LRFD)
SKEW: 30°
WEARING SURFACE: ASPHALT CONCRETE





LEGEND

1. ITEM 448, 1 1/2" ASPHALT CONCRETE SURFACE COURSE
2. ITEM 448, 1 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE
3. ITEM 301, 5" ASPHALT CONCRETE BASE
4. ITEM 304, 6" AGGREGATE BASE
5. ITEM 204, SUBGRADE COMPACTION
6. ITEM 659, SEEDING & MULCHING (TO BE DONE BY COUNTY FORCES)
7. ITEM 407, TACK COAT, APPLIED AT THE RATE OF 0.05 GAL/S.Y.

TYPICAL PAVEMENT SECTION

NOT TO SCALE

51+00 TO 51+49 & 52+27 TO 52+50 (SEE PROFILE ON SHEET 5)
51+49 TO 52+27 OMIT 5" 301 ASPH. CONC. & 6" 304 AGG. BASE (SEE PROFILE ON SHEET 5)
51+49 TO 52+27 MAINTAIN 1 1/2" 448 INTERMEDIATE COURSE & 1 1/2" 448 SURFACE COURSE
52+50 TO 53+15 SEE PROFILE ON SHEET 5 FOR TAPER OF 301 MATERIAL
52+50 TO 53+15 MAINTAIN 1 1/2" 448 INTERMEDIATE COURSE & 1 1/2" 448 SURFACE COURSE
53+25 TO 54+00 BEGIN 1 1/2" 448 OVERLAY, SEE PLAN ON SHEET 5

PLAN — PROFILE

C:\R13\BRIDGES\G-11.00\PLANPROF 2

C.R. 18 @ CSX RR
FLATROCK TWP.

1/2

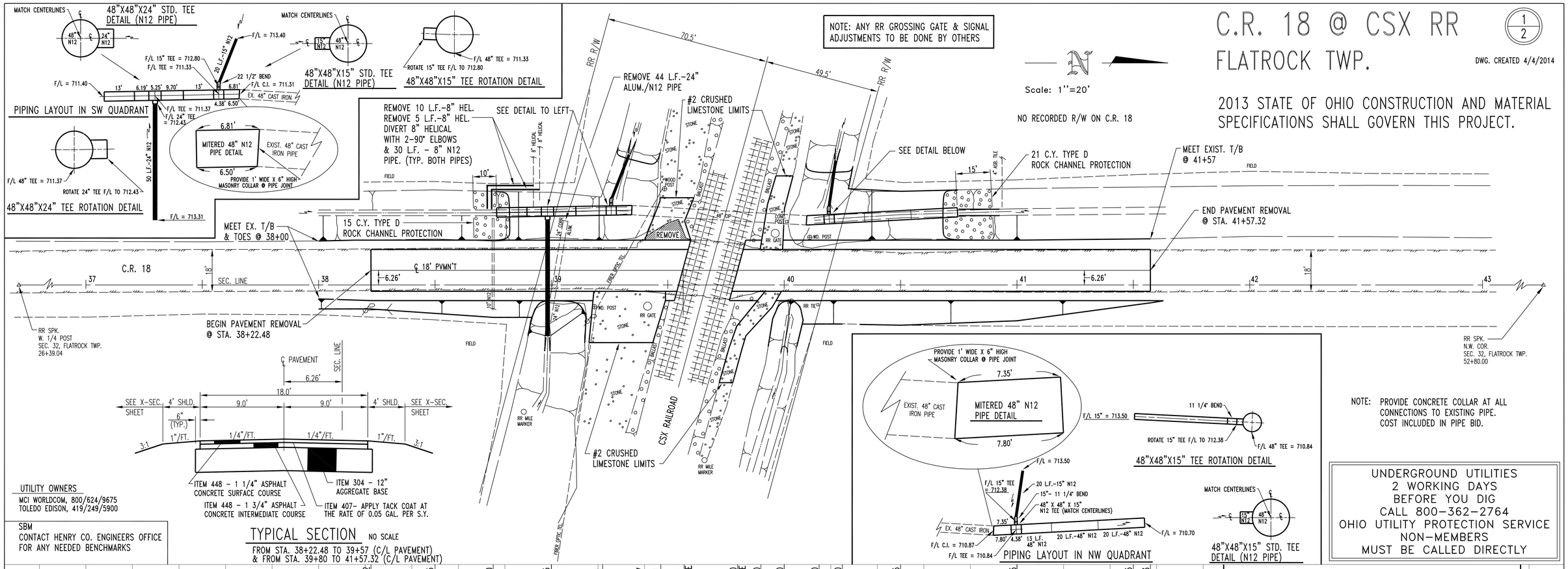
DWG. CREATED 4/4/2014

2013 STATE OF OHIO CONSTRUCTION AND MATERIAL SPECIFICATIONS SHALL GOVERN THIS PROJECT.

NOTE: ANY RR GROSSING GATE & SIGNAL ADJUSTMENTS TO BE DONE BY OTHERS

Scale: 1''=20'

NO RECORDED R/W ON C.R. 18



UTILITY OWNERS
MCI WORLDCOM, 800/624/9675
TOLEDO EDISON, 419/249/5900

SBM
CONTACT HENRY CO. ENGINEERS OFFICE FOR ANY NEEDED BENCHMARKS

QUANTITIES: STA. 38+00 TO STA. 41+57

ITEM 202	PIPE REMOVED, 24" & UNDER	15	L.F.
ITEM 202	PAVEMENT REMOVED	641	S.Y.
ITEM 203	EXCAVATION	37	C.Y.
ITEM 203	EMBANKMENT	1058	C.Y.
ITEM 204	SUBGRADE COMPACTION	727	S.Y.
ITEM 304	AGGREGATE BASE	219	C.Y.
ITEM 407	TACK COAT (APPLIED AT THE RATE OF 0.05 GAL/S.Y.)	31	GAL.
ITEM 448	ASPH. CONC. SURFACE COURSE, TYPE 1M (STA. 38+22.48 TO 41+57.32)	22	C.Y.
ITEM 448	ASPH. CONC. INTERMEDIATE COURSE, TYPE 1M (STA. 38+22.48 TO 41+57.32)	30	C.Y.
ITEM 601	ROCK CHANNEL PROT., TYPE "D" W/O FILTER	36	C.Y.
	#2 CRUSHED LIMESTONE	52	C.Y.
ITEM 611	8" TYPE "C" CONDUIT (N12) 707.33	60	L.F.
ITEM 611	15" TYPE "C" CONDUIT (N12) 707.33	40	L.F.
ITEM 611	24" TYPE "B" CONDUIT (N12) 707.33 (AS PER PLAN/TRENCH DETAIL)	50	L.F.
ITEM 611	48" TYPE "C" CONDUIT (N12) 707.33 (INCLUDES CONC. COLLARS)	110	L.F.
ITEM 611	48"X48"X15" N12 TEE (707.33 TEES TO BE PER ADS DIMENSIONS)	2	EA.
ITEM 611	48"X48"X24" N12 TEE (707.33 TEES TO BE PER ADS DIMENSIONS)	1	EA.
	(COST OF 48"X48"X15" TEES TO INCLUDE 2-15" BENDS AS PER PLAN)		
ITEM 659	SEEDING & MULCHING TO BE DONE BY COUNTY FORCES		

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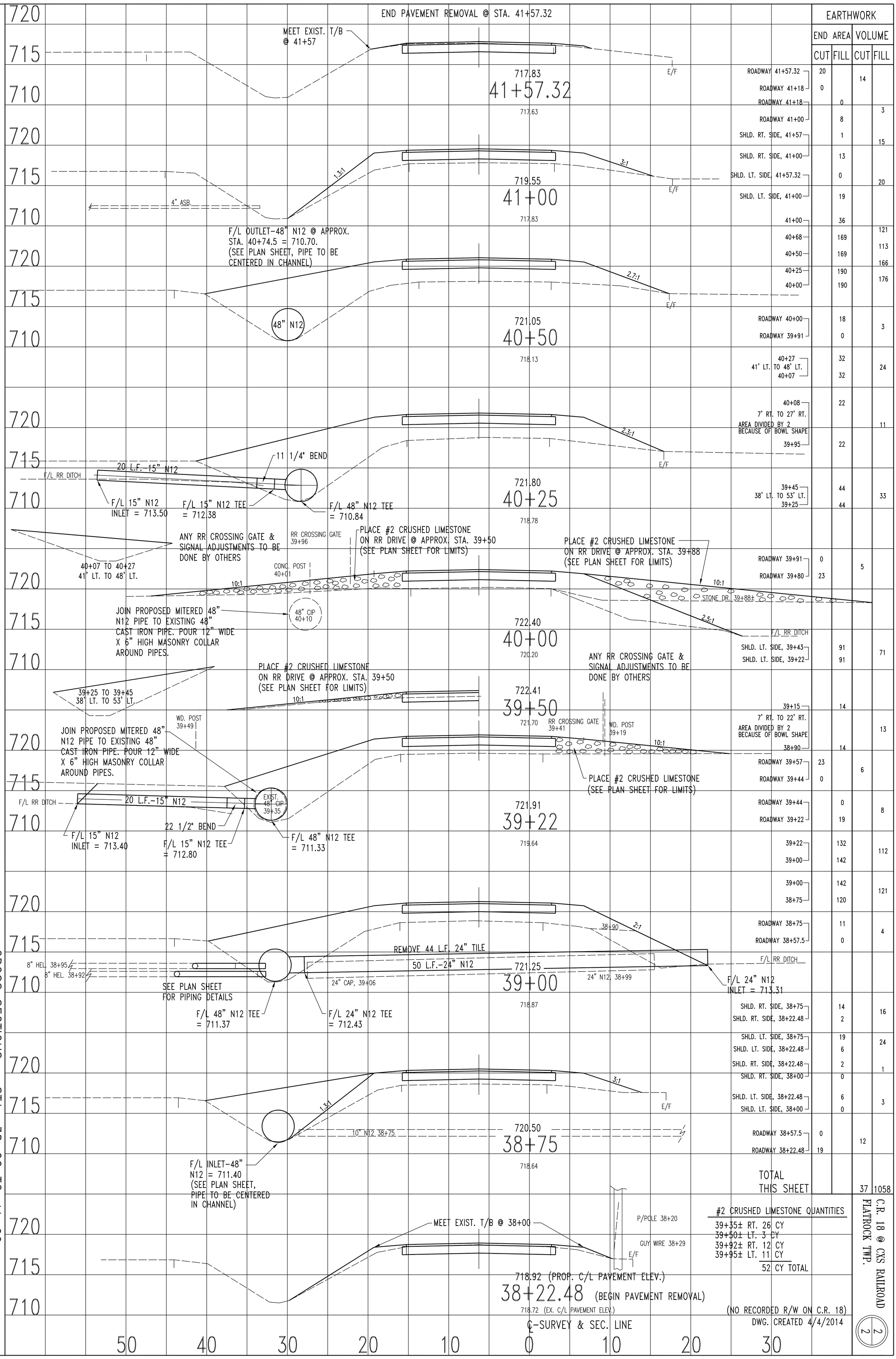
FULL CROSS SECTION

CROSS SECTIONS - STA. 38+00 TO 41+00



EARTHWORK			
END AREA		VOLUME	
CUT	FILL	CUT	FILL
ROADWAY 41+57.32 — 20; ROADWAY 41+18 — 0		14	
ROADWAY 41+18	0		
ROADWAY 41+00 — 8; SHLD. RT. SIDE, 41+57 — 1			3
SHLD. RT. SIDE, 41+00 — 13; SHLD. LT. SIDE, 41+57.32 — 0			15
SHLD. LT. SIDE, 41+00 — 19; 41+00 — 36			20
40+68 — 169; 40+50 — 169			121; 113
40+25 — 190; 40+00 — 190			166
ROADWAY 40+00 — 18; ROADWAY 39+91 — 0			176
40+27, 41' LT. TO 48' LT., 40+07 — 32; 32			3
40+08, 7' RT. TO 27' RT., AREA DIVIDED BY 2 BECAUSE OF BOWL SHAPE, 39+95 — 22; 22			24
39+45, 38' LT. TO 53' LT., 39+25 — 44; 44			11
ROADWAY 39+91 — 0; ROADWAY 39+80 — 23		5	33
SHLD. LT. SIDE, 39+43 — 91; SHLD. LT. SIDE, 39+22 — 91			71
39+15, 7' RT. TO 22' RT., AREA DIVIDED BY 2 BECAUSE OF BOWL SHAPE, 38+90 — 14; 14			13
ROADWAY 39+57 — 23; ROADWAY 39+44 — 0		6	
ROADWAY 39+44 — 0; ROADWAY 39+22 — 19			8
39+22 — 132; 39+00 — 142			112
39+00 — 142; 38+75 — 120			121
ROADWAY 38+75 — 11; ROADWAY 38+57.5 — 0			4
SHLD. RT. SIDE, 38+75 — 14; SHLD. RT. SIDE, 38+22.48 — 2			16
SHLD. LT. SIDE, 38+75 — 19; SHLD. LT. SIDE, 38+22.48 — 6; SHLD. RT. SIDE, 38+22.48 — 2; SHLD. RT. SIDE, 38+00 — 0			24; 1
SHLD. LT. SIDE, 38+22.48 — 6; SHLD. LT. SIDE, 38+00 — 0			3
ROADWAY 38+57.5 — 0; ROADWAY 38+22.48 — 19		12	
TOTAL THIS SHEET		37	1058

#2 CRUSHED LIMESTONE QUANTITIES

39+35± RT. 26 CY
39+50± LT. 3 CY
39+92± RT. 12 CY
39+95± LT. 11 CY
52 CY TOTAL

(NO RECORDED R/W ON C.R. 18)
DWG. CREATED 4/4/2014

C.R. 18 @ CXS RAILROAD
FLATROCK TWP.

2/2

S:\ROADS\ROADS\18-G-H\2014\XSECT