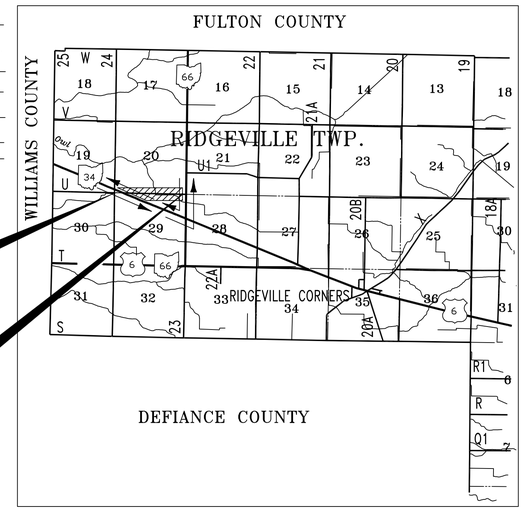
CREATED 3-5-2012
REVISED 5-12-2014

HENRY COUNTY
DEPARTMENT OF HIGHWAYS
TOWNSHIP ROAD U
BETWEEN S.R. 34 & S.R. 66
ROAD & DRAINAGE IMPROVEMENTS
STATE OF OHIO

CONVENTIONAL SIGNS

Township Line
Section Line
Center Line
Property Line
Railroad
Fence Line (existing)
Guardrail (existing)
Trees Stumps
Utility Poles: Telephone Power

County Line
Corporation Limits
Construction Limits
Right of Way
Underground Utilities
(proposed)
(proposed)
(to be removed)
Light



INDEX OF SHEETS

TITLE SHEET 1
GENERAL NOTES & TYPICAL SECTIONS 2
GENERAL SUMMARY & SUB-SUMMARY 3
PLAN AND PROFILE 4-11
CROSS SECTIONS 12-14

LOCATION MAP

1 1/2 0 1 2 3 4
SCALE IN MILES

Detour
Portion to be improved
State and U.S. Routes
County and Township Roads

SCALES

Plan 0' 10' 20' 30' 40' 50'
Profile __ Horizontal 0' 20' Vertical 0' 5'
Cross Section _ Horz. 0' 5' Vertical 0' 5'

2010 SPECIFICATIONS

The Standard Specifications of the Ohio Department of Transportation, including changes and supplemental specifications, listed in the proposal shall govern this improvement.

I hereby approve these plans and declare that the making of this improvement will require the closing of the highway and that the necessary lights and signs shall be maintained.

Approved _____
Date _____ Henry County Engineer

Approved _____
Date _____ Ridgeville Township Trustee

Approved _____
Date _____ Ridgeville Township Trustee

Approved _____
Date _____ Ridgeville Township Trustee

UNDERGROUND UTILITIES
2 WORKING DAYS
BEFORE YOU DIG
CALL 800-362-2764
OHIO UTILITY PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS				
MT-101.60	7-1-92			
DM-1.1	7-19-02			
HW-2.2	7-19-02			

SUPPLEMENTAL SPECIFICATIONS		
820	6-14-95	
944	3-18-92	

Plans Prepared By
HENRY COUNTY ENGINEER'S OFFICE
NAPOLEON, OHIO

DEPARTMENT OF HIGHWAYS
HENRY COUNTY, OHIO

TITLE SHEET

TOWNSHIP ROAD U
BETWEEN S.R. 34 & S.R. 66
RIDGEVILLE TWP.

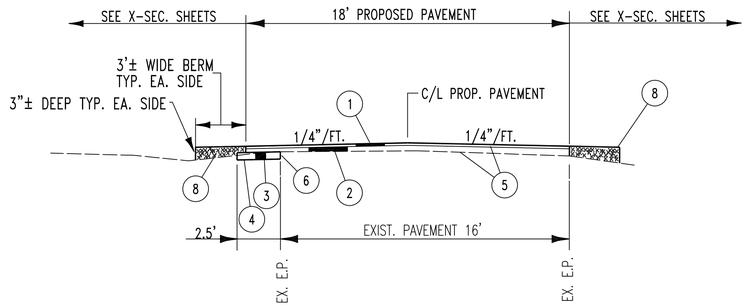
Designed:	Drawn:	Checked:	File Name:
HEN. CO. ENG.	S.J.K	T.J.S	R13/ROADS/U-34T066/TITLESHEET

ORIGIN 3-05-2012
REVISED 8-14-2012
REVISED 8-17-2012
REVISED 8-23-2012
REVISED 5-06-2014

LEGEND

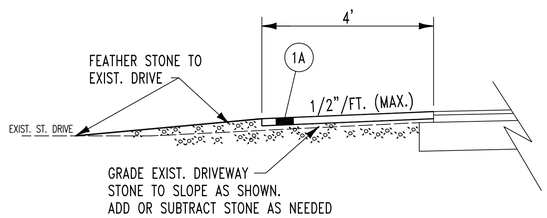
* ① ITEM 448 – 1 1/4" ASPHALT CONCRETE SURFACE COURSE (TEMP. PAVEMENT MARKINGS INCLUDED UNDER ITEM 448)
- ⑭ ITEM 448 – 3" ASPHALT CONCRETE SURFACE COURSE
* ② ITEM 448 – ASPHALT CONCRETE INTERMEDIATE/LEVELING COURSE (1/4" MIN.)
- ③ ITEM 301 – 5" ASPHALT CONC. BASE (SEE ITEM 6)
- ④ ITEM 204 – SUBGRADE COMPACTION
- ⑤ ITEM 407 – TACK COAT, APPLIED AT THE RATE OF 0.05 GAL./S.Y. (OVER EX. PAVEMENT & BETWEEN INTERMEDIATE & SURFACE COURSE)
- ⑥ ITEM 407 – TACK COAT, APPLIED AT THE RATE OF 0.25 GAL./S.Y. ON VERT. FACE, COST INCLUDED UNDER ITEM 301
- ⑦ ITEM 659 – SEEDING & MULCHING
- ⑧ ITEM 617 – STABILIZED CRUSHED AGGREGATE BERM

* MATERIAL SHALL BE PLACED FULL WIDTH. PAVER SHALL BE EQUIPPED WITH A FORTY (40) FOOT AUTOMATICALLY CONTROLLED LEVELING SKI.



PAVEMENT WIDENING SECTION, RD. U FROM 6+79.13 TO 30+00±

NOT TO SCALE



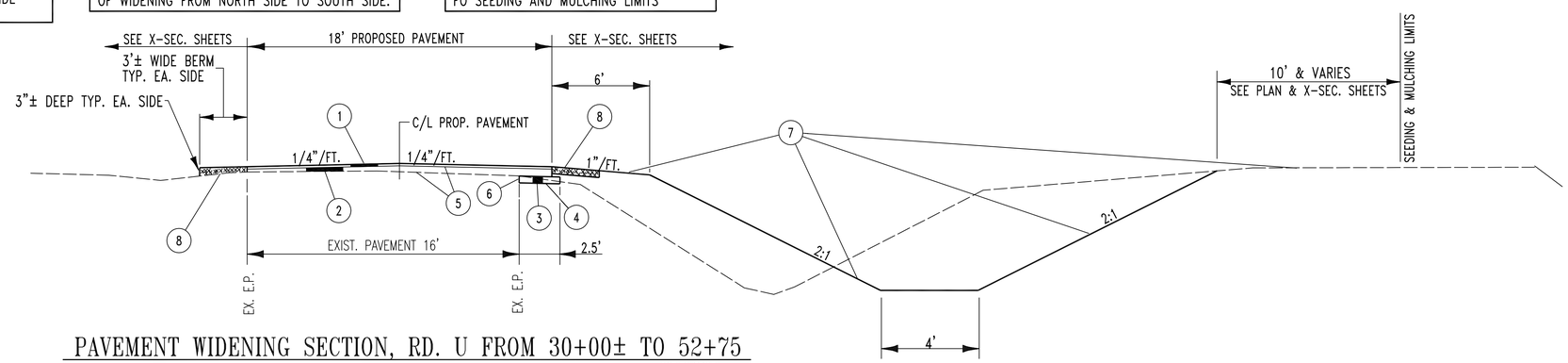
DRIVEWAY DETAIL

NOT TO SCALE

SEE PLAN & X-SEC. SHEETS FOR LIMITS OF 1' WIDE SHLD. ON LEFT SIDE

SEE PLAN SHEET #7 & #8 FOR TRANSITION OF WIDENING FROM NORTH SIDE TO SOUTH SIDE.

SEE X-SECTION SHEETS AND PLAN SHEETS FO SEEDING AND MULCHING LIMITS



PAVEMENT WIDENING SECTION, RD. U FROM 30+00± TO 52+75

NOT TO SCALE

GENERAL NOTES

ELEVATION DATUM
All elevations are based on GPS DATUM

EROSION CONTROL
ITEM 601 is provided in the plans for erosion control. Rock of a stable nature will not be removed in order to place this item. The Engineer shall check and non-perform quantities or adjust locations and quantities for this item where indicated by field conditions during construction.

UNDERGROUND UTILITIES
The locations of underground utilities shown on the plans are as obtained from the owners of the utility as required by Section 153.64 ORC.

UTILITY OWNERSHIP
The following utilities and owners are located within the work limits of this project:

TELEPHONE: RIDGEVILLE TELEPHONE CO.
P.O. BOX A
RIDGEVILLE CORNERS, OH 43555
419/267-5185

ELECTRIC: TOLEDO EDISON POWER CO. (FIRST ENERGY)
134 LAWRENCE AVE.
WAUSEON, OHIO 43567
419/249-5900

WATER: VILLAGE OF ARCHBOLD
300 N. DEFIANCE ST. ARCHBOLD, OH 43502
WATER DEPARTMENT-700 NORTH ST. ARCHBOLD, OH. 419/445-2506 OR 419/445-0293

SEWER: RIDGEVILLE TWP. WATER & SEWER DISTRICT
20-524 S.R. 6
RIDGEVILLE CORNERS, OH 43555
419/267-5286

ITEM 603
Immediately after placement of any conduits, the Contractor shall construct the end treatments required by the plans at both the outlet and inlet ends. This shall include headwalls, wingwalls, end sections, concrete riprap, rock channel protection, sodding, etc.

Payment for any manufactured end sections, coupling bands, precast wingwalls and footings, shall be included in the unit price bid for each conduit under this item.

Where plans provide for proposed conduit to be connected to, or to cross either over or under an existing utility, it shall be the responsibility of the Contractor to locate the existing pipe or line both as to line and grade before laying the proposed conduit.

Animal guards shall be provided at the outlet of all pipes which are to be constructed by the Contractor, as per Standard Construction Drawing DM-1.1, except when they outlet into a drainage structure unless noted on plan sheet.

Payment for all operations described above shall be included in the unit price bid for the pertinent 603 conduit items.

INGRESS AND EGRESS TO DRIVES
Ingress and egress to all residential drives shall be maintained at all times during the construction of this project. Temporary closures of any drives shall require permission from the Engineer prior to closure and shall be held to as short a period of time as is necessary.

TEMPORARY PAVEMENT MARKINGS
Temporary pavement markings shall be placed upon the centerline of the surface course at approx. 50' intervals.
Temporary pavement markings shall be paid for under Item 448.

EXISTING STONE BERM
Existing stone berm shall be graded so that no granular material is within 6" of the finished grade as shown on the cross sections.

DETOURS
All necessary signs and sign supports including erecting, maintaining and removing the signs and sign supports shall be provided by the Contractor for the required project detour, as indicated on Sht. 1.

Signs and sign supports shall be as detailed in the Ohio Manual of Uniform Traffic Control Devices. Payment for providing, erecting, maintaining and removing signs and sign supports shall be included in the lump sum price bid for ITEM 614, MAINTAINING TRAFFIC.

LIGHTS AND SIGNS AT ADJACENT INTERSECTIONS
The Contractor shall, in addition to the general requirements of ITEM 614 on this project, perform the following:

Provide, erect, and maintain standard 48"x30" "ROAD CLOSED" sign supports, and lights at the following locations during the period in which the affected road is closed to traffic:

1. INT. T.R. U & S.R. 34
2. INT. T.R. U & S.R. 66

Sign supports and lights for "ROAD CLOSED" signs shall be as detailed in the Ohio Manual of Uniform Traffic Control Devices. Payment for providing, erecting, maintaining, and removing lights, signs, and sign supports shall be included in the lump sum price bid for ITEM 614, MAINTAINING TRAFFIC.

CONTINGENCY QUANTITIES
Items designated by plan note to be used "AS DIRECTED BY ENGINEER" are subject to adjustment. The actual work locations and quantities used at the Engineer's discretion shall be made a matter of record by incorporation into the final change order governing completion of this project.

GENERAL SUMMARY

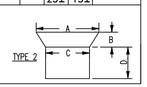
ITEM	GRAND TOTAL	UNIT	DESCRIPTION
			ROADWAY
201	1	LUMP	CLEARING & GRUBBING (INCLUDES TREE REMOVAL OF TREES 12" OR LESS)
201	6	EACH	TREE REMOVED 18" SIZE
201	1	EACH	TREE REMOVED 30" SIZE
202	2	EACH	PORTION OF STRUCTURE REMOVED (AS PER PLAN)
202	271	L.F.	PIPE REMOVED, 24" & UNDER
202	27	L.F.	PIPE REMOVED, OVER 24" (TO INCLUDE HEADWALL REMOVAL WHERE NOTED)
203	2082	C.Y.	EXCAVATION
203	1	LUMP	CUT SHALLOW SWALE @ 32+38± & FILL LOW AREA AS DIRECTED BY ENGINEER
203	2072	C.Y.	EMBANKMENT
204	1789	S.Y.	SUBGRADE COMPACTION
209	1348	L.F.	DITCH CLEANOUT (CLEANOUT AND RE-SHAPE EXIST. DITCH) (AS PER PLAN AND @ DIRECTION OF ENGINEER) (STA. 3+45.5 TO 17+32)
607	225	L.F.	CHAIN-LINK FENCE 4' HIGH - 9 GA. GALVANIZED (AS PER PLAN)
			EROSION CONTROL
601	106	C.Y.	ROCK CHANNEL PROTECTION, TYPE D W/O FILTER (18" THICK)
659	52	M. GAL.	WATER
659	9535	S.Y.	SEEDING & MULCHING
659	0.86	TON	COMMERCIAL FERTILIZER
			DRAINAGE
602	2.38	C.Y.	CONCRETE MASONRY (1/2 HEIGHT HDWL., HW-2.2)
603	10	L.F.	4" CONDUIT, TYPE E, 707.32 (EXTEND AS DIRECTED BY ENGINEER. USED 10 LF FOR EST. PURPOSES)
603	78	L.F.	8" CONDUIT, TYPE D 707.33
603	10	L.F.	8" CONDUIT, TYPE E, 707.32 (EXTEND AS DIRECTED BY ENGINEER. USED 10 LF FOR EST. PURPOSES)
603	43	L.F.	8" CONDUIT, TYPE E, 707.32
603	25	L.F.	12" CONDUIT, TYPE C, 707.33
603	7	L.F.	12" CONDUIT, TYPE E, 707.33
603	10	L.F.	12" CONDUIT, TYPE E, 707.33 (EXTEND AS DIRECTED BY ENGINEER. USED 10 LF FOR EST. PURPOSES)
603	50	L.F.	60" CONDUIT, TYPE D, 707.33
603	18	L.F.	63" X 98" TYPE C, 706.04
604	2	EACH	MANHOLE ADJUSTED TO GRADE
			PAVEMENT
448	352	C.Y.	ASPHALT CONCRETE SURFACE COURSE (TO INCLUDE TEMPORARY PAVEMENT MARKINGS)
448	337	C.Y.	ASPHALT CONCRETE INTERMEDIATE/LEVELING COURSE (1/4" MINIMUM)
301	170	C.Y.	ASPHALT CONCRETE BASE (INCLUDES ITEM 407 TACK COAT ON VERT. FACE)
304	36	C.Y.	AGGREGATE BASE
407	925	GAL.	TACK COAT (APPLIED @ THE RATE OF 0.05 GAL./S.Y.) (SEE TYPICAL SECTION)
617	260	C.Y.	STABILIZED CRUSHED AGGREGATE BERM
SPEC.	4	EACH	BUTT JOINTS (187 L.F.) LOCATED @ SR 34, STA. 29+75±, STA. 33+30±, & SR 66
SPEC.	1	EACH	REPAIR SINK HOLE @ DIRECTION OF ENGINEER
			MISCELLANEOUS
614	1	L.S.	MAINTAINING TRAFFIC
623	1	L.S.	CONSTRUCTION LAYOUT STAKES
624	1	L.S.	MOBILIZATION
642	1.72	MILE	EDGE LINE, TYPE 1
642	0.86	MILE	CENTER LINE, TYPE 1
103.05	1	L.S.	CONTRACT PERFORMANCE & PAYMENT BOND

FIELD & RESIDENTIAL DRIVES

Ref. No.	Station	Rt./Lt.	A	B	C	D	448	203	204	304 (STONE BACKUP UNDER APPROACHES)	304 (STONE BACKUP UNDER APPROACHES)	
1	13+61	LT.	28	4	20	–	.9	–	–	1	–	100 SF
2	14+50	LT.	25	4	19	–	.9	–	–	1	–	94 SF
3	15+73	LT.	28	4	19	–	.9	–	–	2	2	101 SF
4	17+48	LT.	28	4	22	–	.9	–	–	2	1	99 SF
5	18+93	LT.	36	4	26	–	1.1	–	–	2	1	124 SF
6	20+90	LT.	47	4	38	–	1.6	–	–	2	2	169 SF
7	25+19	LT.	30	4	24	–	1.0	–	–	2	1	107 SF
8	28+12	LT.	33	4	21	–	1.0	–	–	1	1	107 SF
9	29+70	RT.	41	4	36	–	1.4	–	–	–	–	155 SF
10	33+10	LT.	32	4	26	–	1.1	–	–	1	–	116 SF
11	33+31	RT.	23	6	14	20	4.0	–	–	–	–	344 SF
12	34+90	LT.	26	3	25	–	0.2	–	–	–	–	75 SF
13	37+23	LT.	43	4	28	–	1.4	–	–	2	1	150 SF
14	38+33	LT.	20	3	18	–	1	–	–	–	–	57 SF
15	39+60	LT.	39	6	31	–	1.3	–	–	2	2	140 SF
16	40+47	LT.	39	3	35	–	1	–	–	–	–	110 SF
17	41+54	LT.	32	6	25	9	6.6	–	–	–	–	386 SF
18	43+31	LT.	31	4	25	–	1.0	–	–	1	–	112 SF
19	44+58	LT.	26	4	21	–	.9	–	–	1	1	93 SF
20	46+87	LT.	27	4	22	–	.9	–	–	–	–	95 SF
21	48+22	LT.	27	4	22	–	.9	–	–	1	–	98 SF
22	49+72	LT.	23	4	19	–	.8	–	–	1	–	82 SF
23	50+97	LT.	29	4	24	–	1.0	–	–	1	1	105 SF
							30.8			23±	13±	

3" - 448

TYPE 2



NOTE: SEE TYP. SECTION ON SHEET 2

SUB-SUMMARY

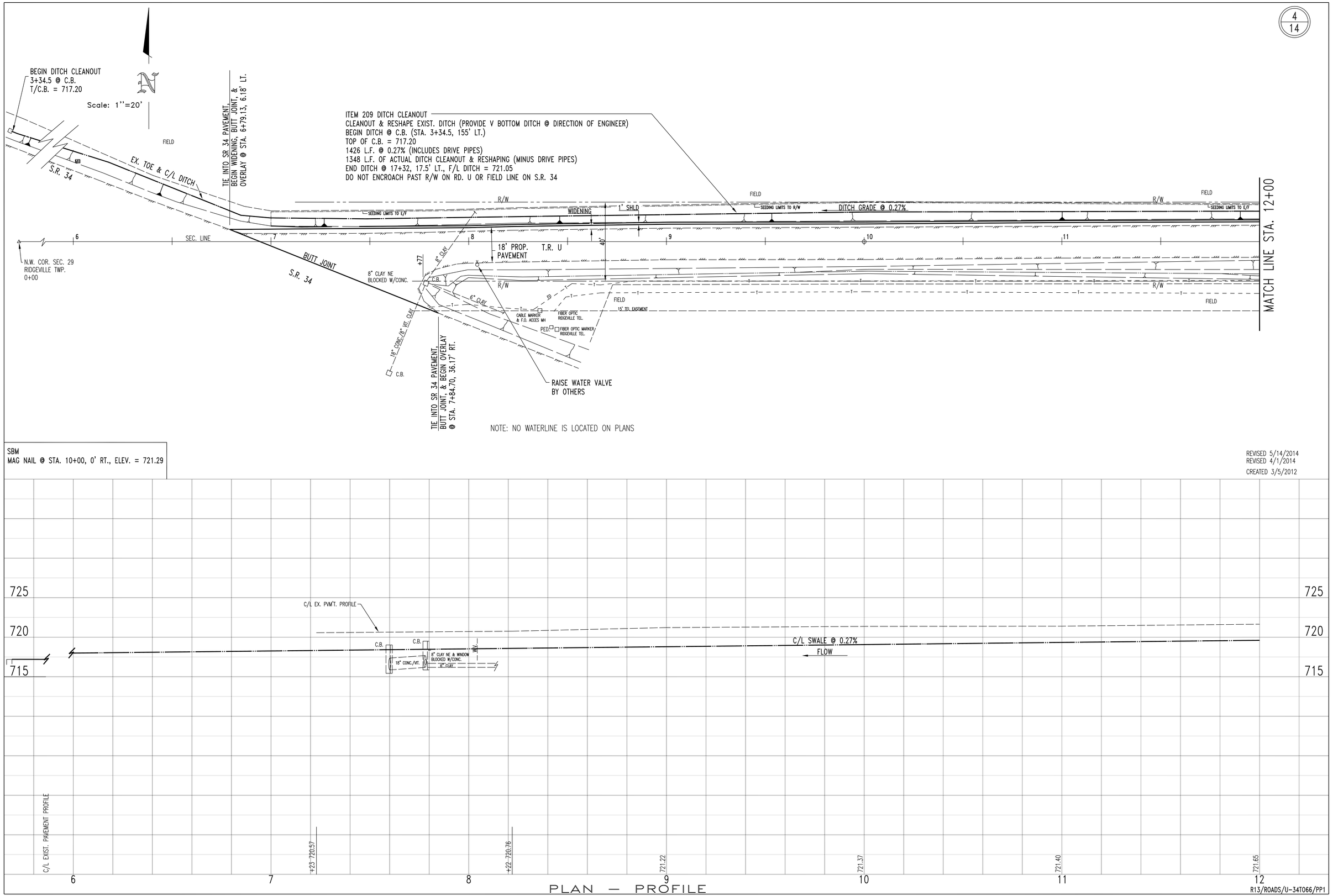
REF. NO.	STATION FROM	STATION TO	SIDE	ROAD	201 TREE REMOVED 18" SIZE (EACH)	201 TREE REMOVED 30" SIZE (EACH)	202 PORTION OF STR. REMOVED (AS PER PLAN) (EACH)	202 PIPE REMOVED 24" & UNDER (L.F.)	202 PIPE REMOVED OVER 24" (TO INCLUDE HEADWALL REMOVAL WHERE NOTED) (L.F.)	601 ROCK CHANNEL PROTECTION, TYPE D W/O FILTER (18" THICK) (C.Y.)	602 CONC. MASONRY (1/2 HT. HDWL., HW-2.2) (C.Y.)	603 4" CONDUIT TYPE E, 707.32 (EXTEND AS DIRECTED BY ENGINEER USED 10 LF FOR EST. PURPOSES) (L.F.)	603 8" CONDUIT TYPE D 707.33 (L.F.)	603 8" CONDUIT TYPE E, 707.32 (EXTEND AS DIRECTED BY ENGINEER USED 10 LF FOR EST. PURPOSES) (L.F.)	603 8" CONDUIT TYPE E 707.32 (L.F.)	603 12" CONDUIT TYPE C 707.33 (L.F.)	603 12" CONDUIT TYPE E 707.33 (L.F.)	603 12" CONDUIT TYPE E, 707.33 (EXTEND AS DIRECTED BY ENGINEER USED 10 LF FOR EST. PURPOSES) (L.F.)	603 60" CONDUIT TYPE D 707.33 (L.F.)	603 63" X 98" CONDUIT, TYPE C 706.04 (L.F.)	604 MANHOLE ADJUSTED TO GRADE (EACH)	SPEC. REPAIR SINK HOLE @ DIRECTION OF ENGINEER (EACH)	607 FENCE-CHAIN-LINK (AS PER PLAN) (L.F.)		SHEET NUMBER
1Ra	13+29	14+39	LT.	U				110																5/12
1Rb	14+41	14+61	LT.	U				20																5/12
1Rc	15+62	15+82	LT.	U				20																5/12
1R	29+88	30+07	RT.	U				19																7/8/13
2R	29+87	30+08	RT.	U				21																7/8/13
3R	29+98	30+12	RT.	U				22																7/8/13
4R	30+14	–	RT.	U				13																7/8/13
5R	30+10	–	RT.	U					6															7/8/13
6R	30+75	–	RT.	U				14																8/13
7R	32+84	–	RT.	U	1																			8/13
8R	33+09	–	RT.	U	1																			8/13
9R	33+21	33+42	RT.	U					21															8/13
10R	34+28	–	RT.	U				8																8/13
11R	34+95	–	RT.	U				10																8/13
12R	35+40	–	RT.	U				7																8/13
13R	36+51	–	RT.	U				7																9/13
14R	39+27	–	RT.	U	1																			9/14
15R	39+70	–	RT.	U		1																		9/14
16R	42+60	42+66	RT.	U			1																	10/14
17R	42+61	42+82	RT.	U			1																	10/14
18R	43+10	–	RT.	U	3																			10/14
1Da	13+48.27	13+74.27	LT.	U									26											5/12
1Db	14+38.03	14+64.03	LT.	U									26											5/12
1Dc	15+59.82	15+85.82	LT.	U									26											5/12
1D	29+88	30+10	RT.	U												25								7/8/13
2D	29+87	30+11	RT.	U											28									7/8/13
3D	29+98	30+11	RT.	U											15									7/8/13
4D	30+10	30+13	RT.	U																18				7/8/13
5D	30+13	–	RT.	U							2.38													7/8/13
6D	33+06	33+56	RT.	U															50					8/13
7D	33+55±	?	RT.	U										10										8/13
8D	34+00±	?	RT.	U								10												8/13
9D	36+98	–	LT.	U																	1			9/13
10D	37+36	?	RT.	U														10						9/14
11D	39+82	39+84	RT.	U													7							9/14
12D	40+15	–	LT.	U																		1		9/14
13D	40+99	–	LT.	U																	1			9/14
1RCP	29+99	30+30	RT.	U						42														7/8/13
2RCP	32+96	33+19	RT.	U						32														8/13
3RCP	33+43	33+66	RT.	U						32														8/13
1F	33+66	34+96	RT.	U																			225	8/13
TOTALS					6	1	2	271	27	106	2.38	10	78	10	43	25	7	10	50	18	2	1	225	

REVISED 5/23/14
REVISED 8/22/12
REVISED 8/16/12
CREATED 3/13/12

DEPARTMENT OF HIGHWAYS
HENRY COUNTY, OHIO

GENERAL SUMMARY
& SUB-SUMMARY
HENRY COUNTY T.R. U
BETWEEN S.R. 34 & S.R. 66

Designed:	Drawn:	Checked:	File Name
HEN.CO. ENG.	S.J.K	T.J.S	R13/ROADS/U-34T066/SUMMARY


BEGIN DITCH CLEANOUT
3+34.5 @ C.B.
T/C.B. = 717.20
Scale: 1''=20'
FIELD
EX. TOE & C/L DITCH
S.R. 34
TIE INTO SR 34 PAVEMENT, BEGIN WIDENING, BUTT JOINT, & OVERLAY @ STA. 6+79.13, 6.18' LT.
ITEM 209 DITCH CLEANOUT
CLEANOUT & RESHAPE EXIST. DITCH (PROVIDE V BOTTOM DITCH @ DIRECTION OF ENGINEER)
BEGIN DITCH @ C.B. (STA. 3+34.5, 155' LT.)
TOP OF C.B. = 717.20
1426 L.F. @ 0.27% (INCLUDES DRIVE PIPES)
1348 L.F. OF ACTUAL DITCH CLEANOUT & RESHAPING (MINUS DRIVE PIPES)
END DITCH @ 17+32, 17.5' LT., F/L DITCH = 721.05
DO NOT ENCROACH PAST R/W ON RD. U OR FIELD LINE ON S.R. 34
R/W
SEEDING LIMITS TO E/F
WIDENING
1' SHLD
SEEDING LIMITS TO R/W
DITCH GRADE @ 0.27%
SEC. LINE
6
7
8
9
10
11
N.W. COR. SEC. 29
RIDGEVILLE TWP.
0+00
BUTT JOINT
S.R. 34
18' PROP. PAVEMENT
T.R. U
40'
+77
8" CLAY
8" CLAY NE BLOCKED W/CONC.
C.B.
6" CLAY
29
CABLE MARKER & F.O. ACCES WH
FIBER OPTIC RIDGEVILLE TEL.
PED.
FIBER OPTIC MARKER RIDGEVILLE TEL.
15' TEL. EASEMENT
18" CONC./8" VIT. CLAY
TIE INTO SR 34 PAVEMENT, BUTT JOINT, & BEGIN OVERLAY @ STA. 7+84.70, 36.17' RT.
RAISE WATER VALVE BY OTHERS
MATCH LINE STA. 12+00
NOTE: NO WATERLINE IS LOCATED ON PLANS
SBM
MAG NAIL @ STA. 10+00, 0' RT., ELEV. = 721.29
REVISED 5/14/2014
REVISED 4/1/2014
CREATED 3/5/2012
725
720
715
C/L EX. PVM'T. PROFILE
C.B.
8" CLAY NE & WINDOW BLOCKED W/CONC.
18" CONC./VIT.
8" CLAY
MV
C/L SWALE @ 0.27%
FLOW
C/L EXIST. PAVEMENT PROFILE
+23 720.57
+22 720.76
721.22
721.37
721.40
721.65
6
7
8
9
10
11
12
PLAN — PROFILE
R13/ROADS/U-34T066/PP1

ITEM 209 DITCH CLEANOUT
CLEANOUT & RESHAPE EXIST. DITCH (PROVIDE V BOTTOM DITCH @ DIRECTION OF ENGINEER)
BEGIN DITCH @ C.B. (STA. 3+34.5, 155' LT.)
TOP OF C.B. = 717.20
1426 L.F. @ 0.27% (INCLUDES DRIVE PIPES)
1348 L.F. OF ACTUAL DITCH CLEANOUT & RESHAPING (MINUS DRIVE PIPES)
END DITCH @ 17+32, 17.5' LT., F/L DITCH = 721.05
DO NOT ENCROACH PAST R/W ON RD. U OR FIELD LINE ON S.R. 34

Scale: 1''=20'

3" 448, TYPICAL ON ALL STONE DRIVES
SEE TYPICAL DRIVE DETAIL ON SHEET 2
& DRIVE TABLE ON SHEET 3.

1Da PLACE 26 L.F.-8" N12 TILE
F/L INLET @ 13+74.27, 15.5' LT. = 720.06
F/L OUTLET @ 13+48.27, 15.5' LT. = 719.99

1Ra REMOVE 110 L.F.- 6" N12

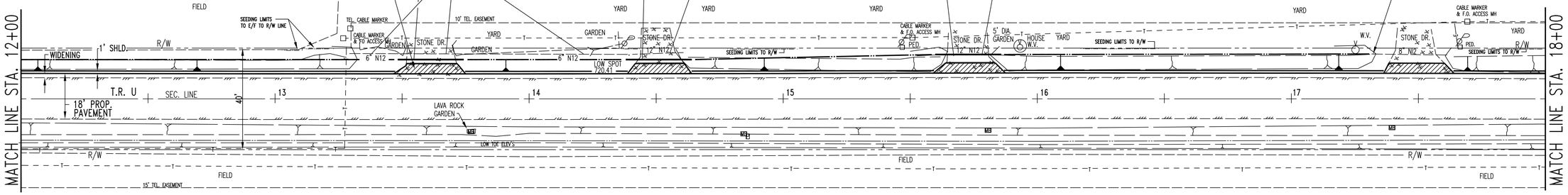
1Db PLACE 26 L.F.-8" N12 TILE
F/L INLET @ 14+64.03, 15.5' LT. = 720.31
F/L OUTLET @ 14+38.03, 15.5' LT. = 720.24

1Rb REMOVE 20 L.F.-12" N12

1Dc PLACE 26 L.F.-8" N12 TILE
F/L INLET @ 15+85.82, 17.5' LT. = 720.65
F/L OUTLET @ 15+59.82, 17.5' LT = 720.58

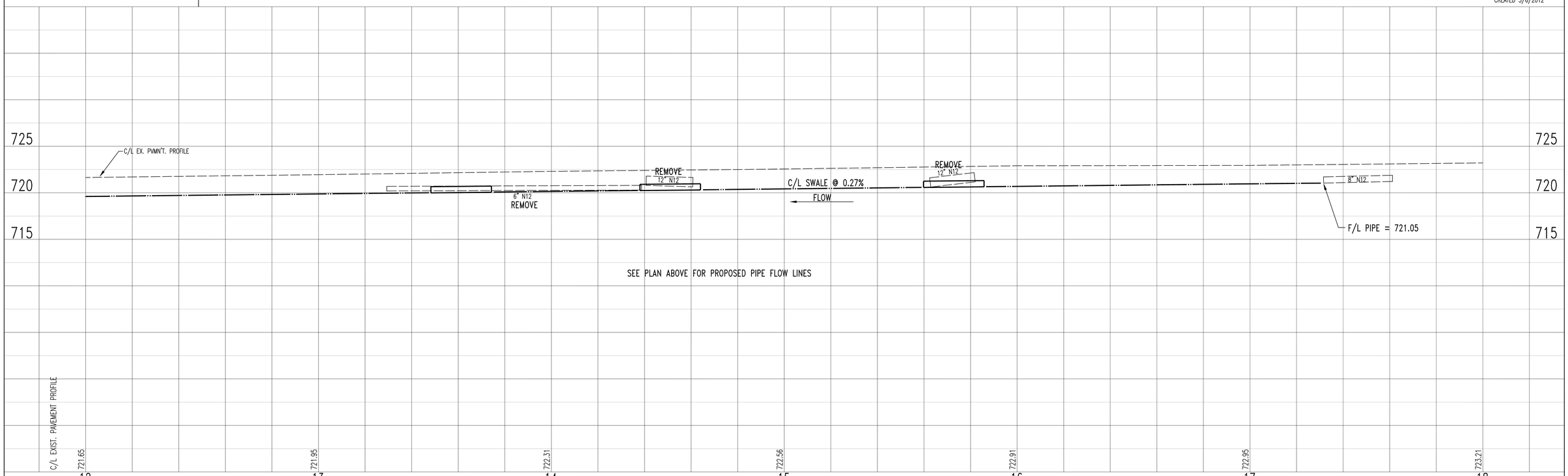
1Rc REMOVE 20 L.F.-12" N12

END LINEAR GRADING
@ 17+32
F/L DITCH = 721.05



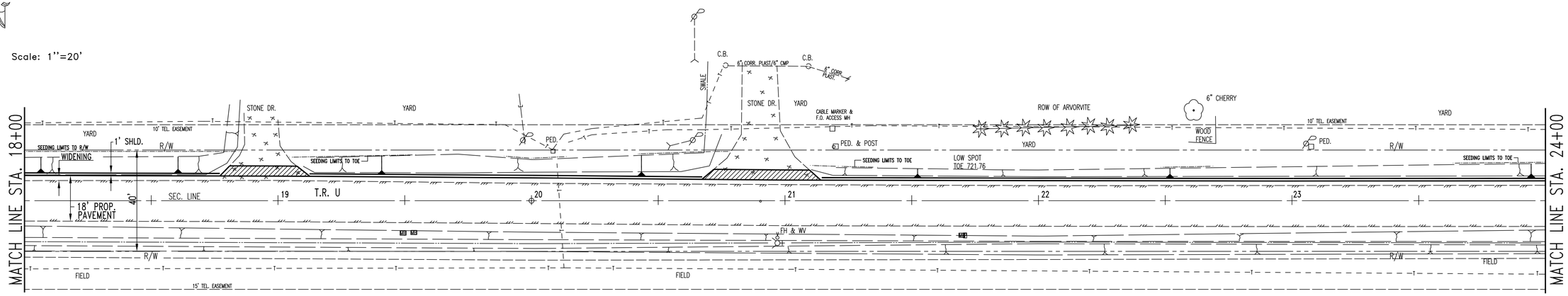
SBM
MAG NAIL @ STA. 10+00, 0' RT., ELEV. = 721.29
MAG NAIL @ STA. 20+00, 0' RT., ELEV. = 723.52

REVISED 5/14/2014
REVISED 8/16/2012
CREATED 3/6/2012



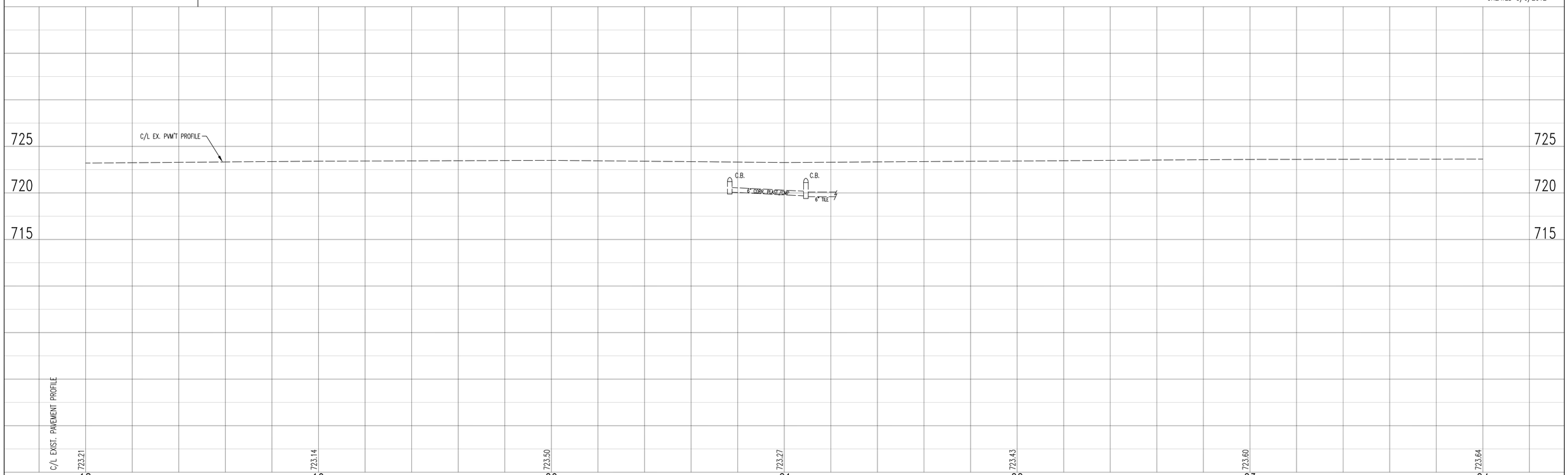
PLAN — PROFILE

Scale: 1''=20'



SBM
MAG NAIL @ STA. 20+00, 0' RT., ELEV. = 723.52
MAG NAIL @ STA. 30+00, 0' RT., ELEV. = 721.93

REVISED 5/14/2014
REVISED 8/17/2012
CREATED 3/6/2012



PLAN — PROFILE

R13/ROADS/U-3470066/PP3

Scale: 1''=20'

MATCH LINE STA. 24+00

MATCH LINE STA. 30+00

YARD
10' TEL. EASEMENT
R/W
SEEDING LIMITS TO TOE
WIDENING
1' SHLD.
STONE DR.
GARDEN
SEEDING LIMITS TO TOE
YARD
CABLE MARKER & F.O. ACCESS MH
SEEDING LIMITS TO TOE
SEEDING LIMITS TO 15' LT.
YARD
PED.
STONE DR.
YARD
SEEDING LIMITS TO 15' LT.
10' TEL. EASEMENT
R/W
18' PROP. PAVEMENT
40'
SEC. LINE
T.R. U
25
26
DEFLECTION
27
28
29
18'
FIELD
R/W
FIELD
FIELD
R/W
15' TEL. EASEMENT
15' TEL. EASEMENT

R.R. SPK.
26+59.55, 0'
NE COR., NW 1/4
SEC. 29 RIDGEVILLE TWP.

BEGIN WIDENING TAPER
@ STA. 29+00

OVERLAY EXIST. ASPH. DR.
& PROVIDE BUTT. JOINT
4' SOUTH OF PROP. E.P.

END WIDENING TAPER
@ EX. E.P.
STA. 30+00

(1R) REMOVE 19 L.F.-12" N12
(1D) & DIVERT W/25 L.F.-12" N12

8' STRIP OWNED BY
RIDGEVILLE TWP. TRUSTEES

CABLE MARKER &
F.O. ACCESS MH

24" TREE

10" CORR.
PLAST.

63" X 98"
ELLIPTICAL
PIPE

END
SEEDING

LAID UP CONC. PAVERS

CONC. HDWL.

CMP

12" N12

ASPHALT DRIVE

LG. CONC.
SLOPE PROT.

5' TEL. EASEMENT
PED.
YARD
W.V.V.
6" PINE
25' EASEMENT
SMALL
12" N12
YARD
18'
18'
6" PLAST.
SEEDING
LIMITS
30+30

BEGIN WIDENING TAPER
@ EX. E.P.
STA. 29+00

END WIDENING TAPER
@ STA. 30+00

(2R) REMOVE 21 L.F.-8"
(2D) CMP & DIVERT W/28
L.F.-8" CORR. PLAST.

(3R) REMOVE 22 L.F.-8"
(3D) CMP & DIVERT W/15
L.F.-8" CORR. PLAST.

(4R) REMOVE 13 L.F.-6"
PLAST. PIPE

PLACE 42 C.Y.
TYPE D RCP
18" THICK (1RCP)

(5R) REMOVE HEADWALL & 1 PIECE OF
(4D) EXIST. ELLIPTICAL TILE. THEN EXTEND
EXIST. PIPE W/18 L.F.-63" X 98"
(5D) ELLIPTICAL TILE. PLACE 1 HW-2.2
(1/2 HEIGHT HEADWALL)

NOTE: ALL TREES 12" & UNDER WILL BE
REMOVED UNDER CLEARING & GRUBBING.
ALL OTHERS WILL BE PAID FOR INDIVIDUALLY.
(STA. 30+00± TO 43+60±)

SBM
MAG NAIL @ STA. 20+00, 0' RT., ELEV. = 723.52
MAG NAIL @ STA. 30+00, 0' RT., ELEV. = 721.93

REVISED 5-7-2014
REVISED 4-02-2014
REVISED 8-23-2012
REVISED 8-17-2012
CREATED 3-7-2012

725
720
715

C/L EX. PVM'T. PROFILE

SEE PIPING NOTATION ABOVE

12" N12
W.V.
0'
6" PLAST.
8" CMP
8" CMP
10" CORR. PLAST.
63" X 98"
HORZ. ELL.

C/L EXIST. PAVEMENT PROFILE

723.64
723.64
723.60
723.79
723.44
722.82
721.97

24
25
26
27
28
29
30

PLAN — PROFILE

R13/ROADS/U-34T066/PP4

NOTE: EXCAVATION OF NEW DITCH NEAR PONDS SHALL BE DONE FROM THE ROAD SIDE ONLY.

Scale: 1''=20'

MATCH LINE STA. 30+00

MATCH LINE STA. 36+00

REMOVE 19 L.F.-EX. 12" N12 & DIVERT W/25 L.F.-12" N12 (1R) (1D)

EXTEND 8" TILE SW (7D) & 4" TILE SSE AS NEEDED (8D) WHEN ENCOUNTERED @ DIRECTION OF ENGINEER

OVERLAY OVER CONC. & FEATHER TO 3' OUT

REMOVE 21 L.F.-8" CMP & DIVERT W/28 L.F.-8" CORR. PLAST. (2R) (2D)

REMOVE 22 L.F.-8" CMP & DIVERT W/15 L.F.-8" CORR. PLAST. (3R) (3D)

PLACE 42 C.Y. TYPE D RCP 18" THICK (1RCP)

REMOVE 13 L.F.-6" PLAST. PIPE (4R)

REMOVE HEADWALL & 1 PIECE OF EXIST. ELLIPTICAL TILE. THEN EXTEND EXIST. PIPE W/18 L.F.-63" X 98" ELLIPTICAL TILE. PLACE 1 HW-2.2 (1/2 HEIGHT HEADWALL) (5R) (4D) (5D)

REMOVE 14 L.F. 4" CORR. PLAST. (6R)

DITCH GRADE = 0.378%
F/L PIPE @ 30+13 = 713.72
F/L DITCH @ 43+56 = 718.8

CUT SHALLOW SWALE @ 32+38± & FILL LOW AREA AS DIRECTED BY THE ENGINEER

PLACE 32 C.Y. RCP 18" THICK (2RCP)

(9R) REMOVE 21 L.F.-60" CMP & CONC. PAVER HEADWALLS (6D) PLACE 50 L.F.-60" N12
F/L OUTLET @ 33+06, 22.0' RT. = 714.83
F/L INLET @ 33+56, 21.8' RT. = 715.02

OVERLAY DRIVE TO 27' RT. & PROVIDE BUTT. JOINT.

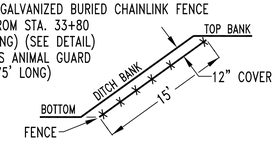
PLACE 32 C.Y. RCP 18" THICK (3RCP)

REMOVE 8 L.F. 4" ALUM. (10R)

REMOVE 10 L.F. 12" HELICAL (11R)

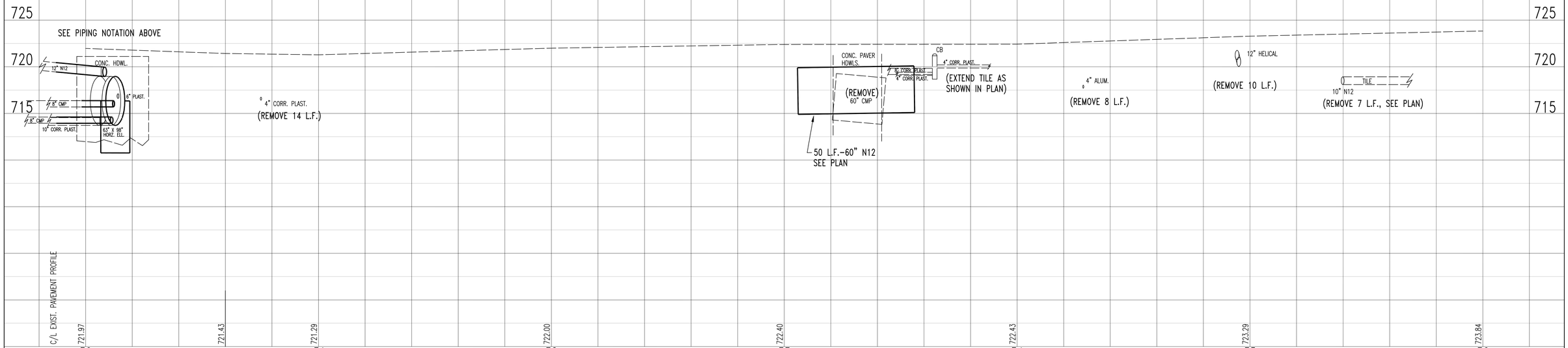
REMOVE 7 L.F. 10" N12 (12R)

(1F) PLACE 15' HIGH-9 GA. GALVANIZED BURIED CHAINLINK FENCE @ BOTTOM OF SLOPE FROM STA. 33+80 TO STA. 34+55 (75' LONG) (SEE DETAIL) METAL FENCE TO ACT AS ANIMAL GUARD (3-5' HIGH SECTIONS, 75' LONG)



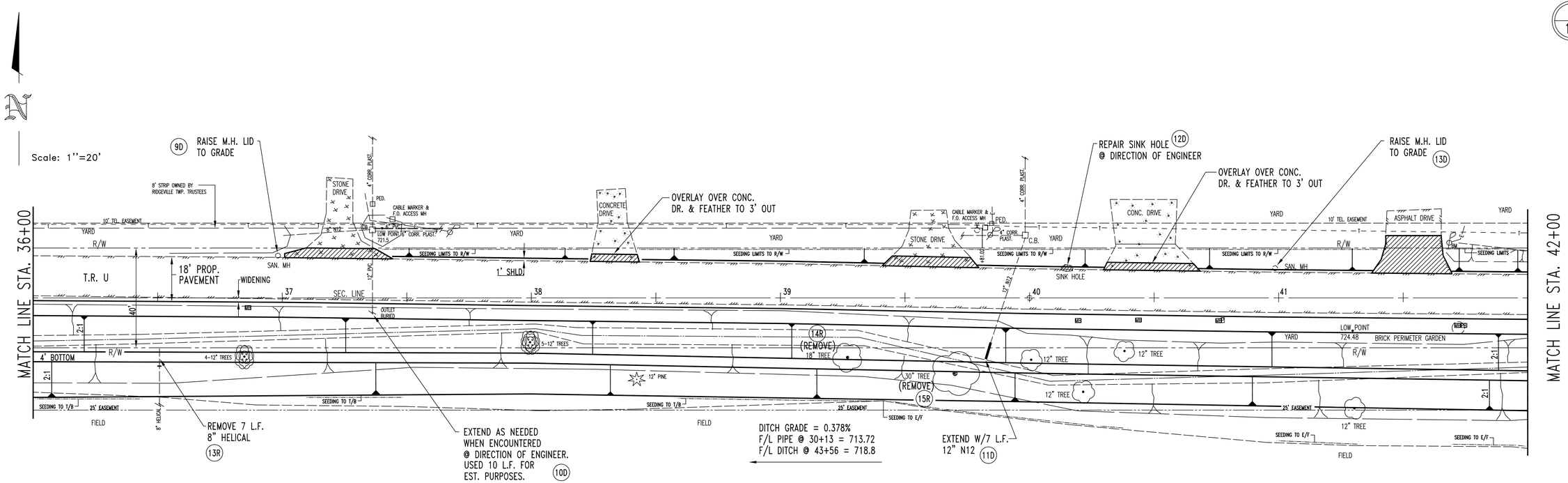
SBM
MAG NAIL @ STA. 30+00, ELEV. = 721.93
MAG NAIL @ STA. 40+00, ELEV. = 724.84

REVISED: 5/8/2014
REVISED: 9/23/2012
REVISED: 9/20/2012
CREATED: 3/7/2012



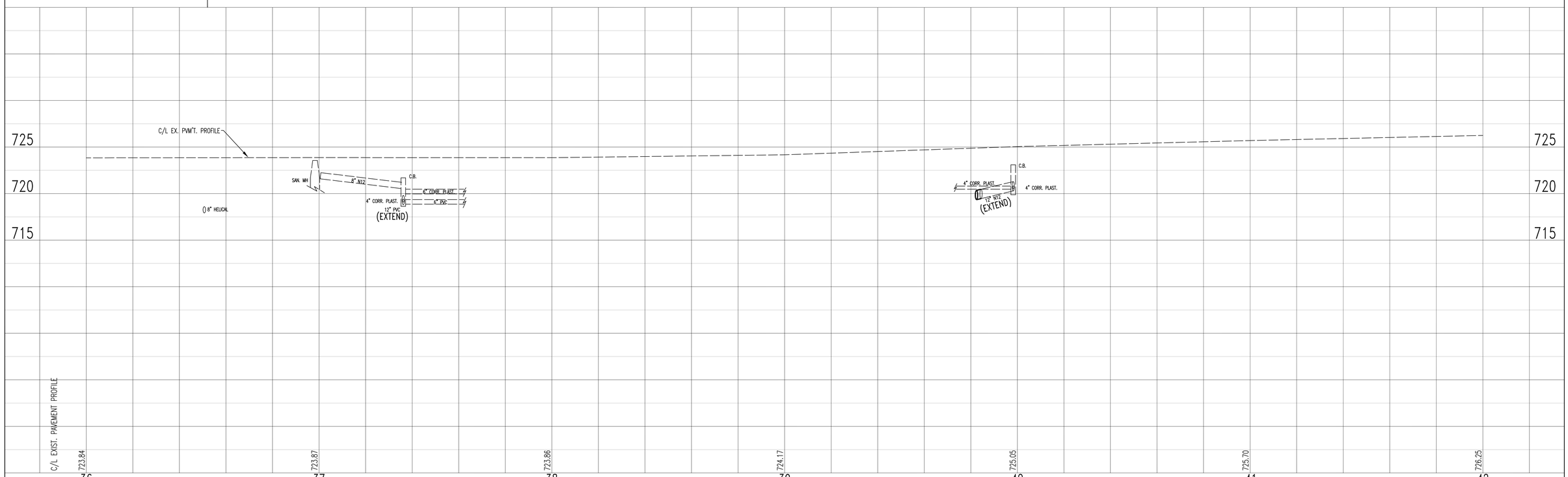
PLAN — PROFILE

R13/ROADS/U-34T066/PP5



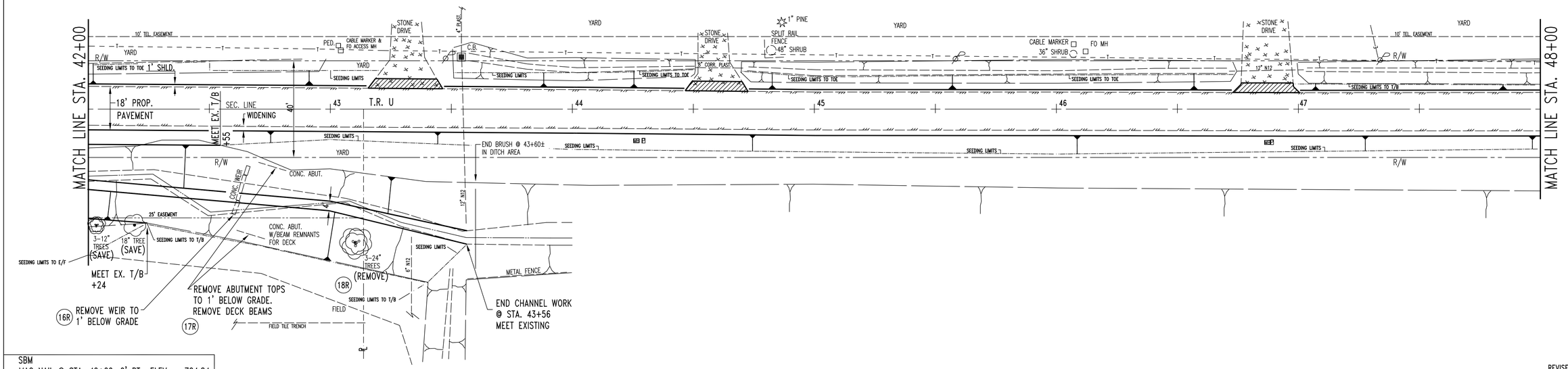
SBM
MAG NAIL @ STA. 30+00, 0' RT., ELEV. = 721.93
MAG NAIL @ STA. 40+00, 0' RT., ELEV. = 724.84

REVISED 5/8/2014
REVISED 8/20/2012
CREATED 3/8/2012



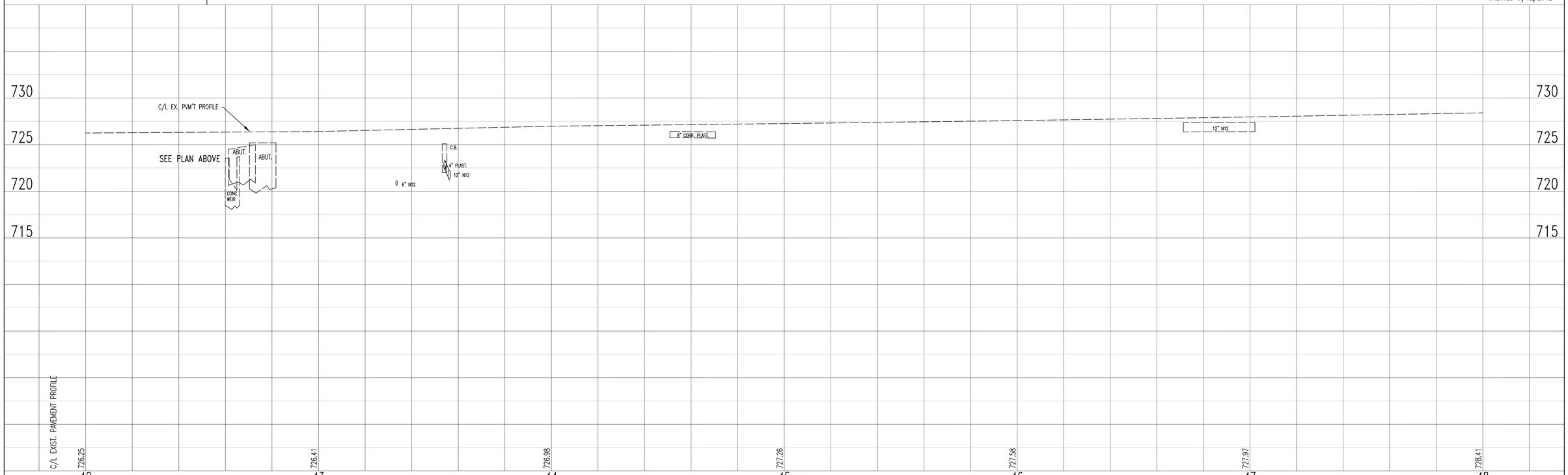
PLAN — PROFILE

Scale: 1''=20'



SBM
MAG NAIL @ STA. 40+00, 0' RT., ELEV. = 724.84
MAG NAIL @ STA. 50+00, 0' RT., ELEV. = 728.94

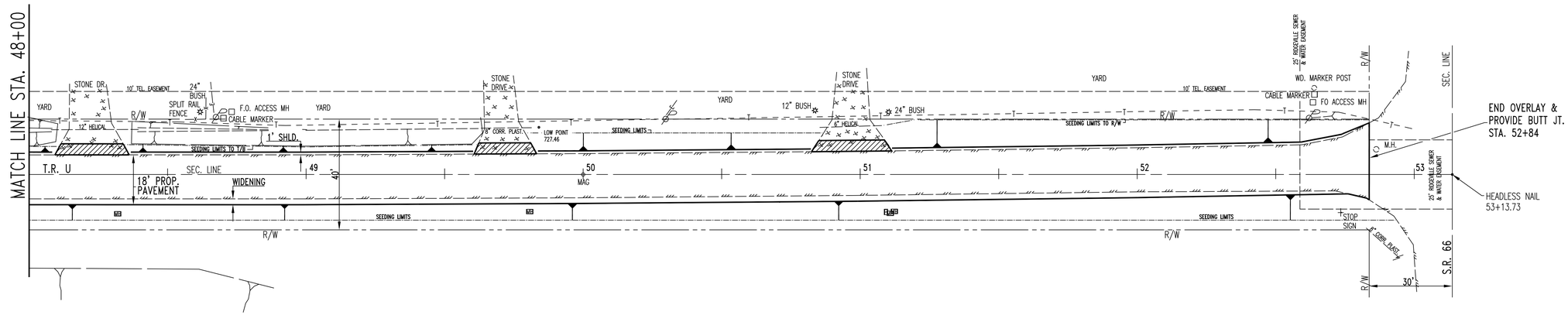
REVISED 5/15/2014
REVISED 8/20/2012
CREATED 3/12/2012



PLAN — PROFILE

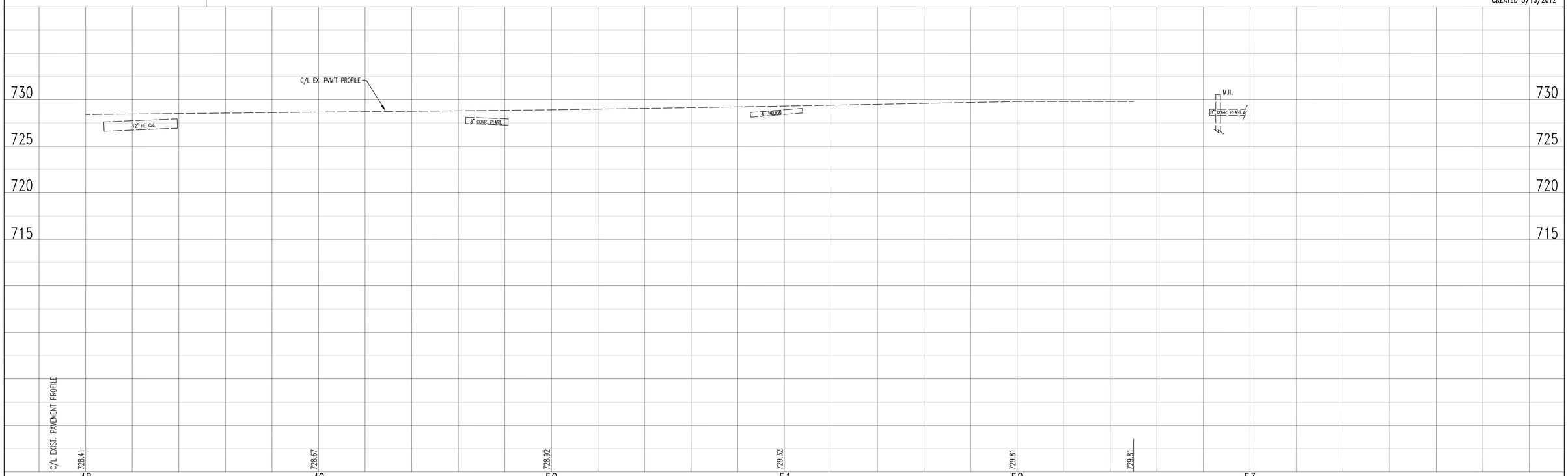
R13/ROADS/U-34T066/PP7

Scale: 1''=20'

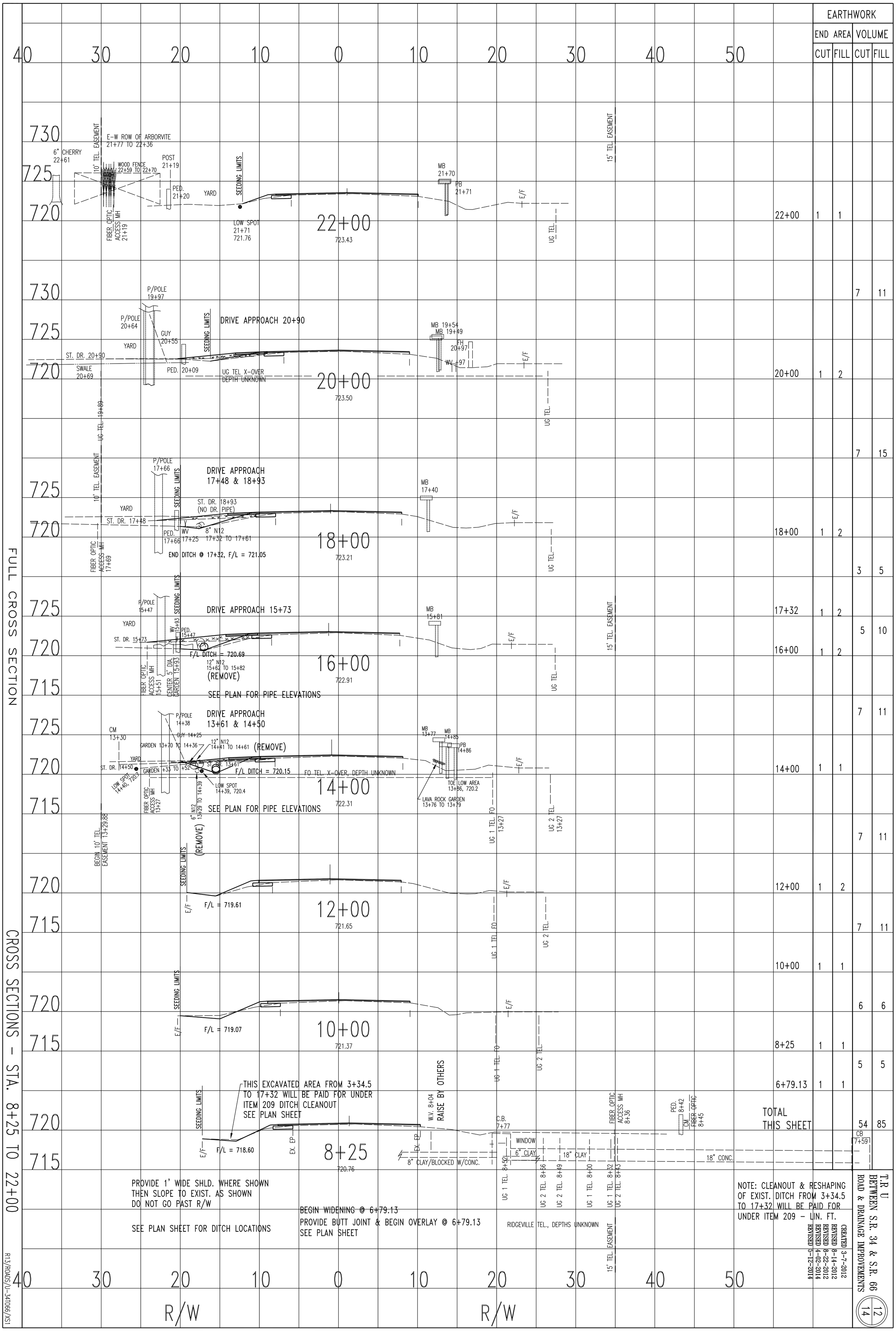


SBM
MAG NAIL @ STA. 40+00, 0' RT., ELEV. = 724.84
MAG NAIL @ STA. 50+00, 0' RT., ELEV. = 728.94

REVISED 5/15/2014
REVISED 8/20/2012
CREATED 3/13/2012



PLAN — PROFILE


FULL CROSS SECTION
CROSS SECTIONS - STA. 8+25 TO 22+00
EARTHWORK
END AREA VOLUME
CUT FILL CUT FILL
22+00 1 1
20+00 1 2 7 11
18+00 1 2 7 15
17+32 1 2 3 5
16+00 1 2 5 10
14+00 1 1 7 11
12+00 1 2 7 11
10+00 1 1 7 11
8+25 1 1 6 6
6+79.13 1 1 5 5
TOTAL THIS SHEET 54 85
E-W ROW OF ARBORVITE 21+77 TO 22+36
6" CHERRY 22+61
10' TEL. EASEMENT
WOOD FENCE 22+59 TO 22+70
POST 21+19
PED. 21+20
YARD
SEEDING LIMITS
LOW SPOT 21+71 721.76
22+00 723.43
MB 21+70
PB 21+71
E/F
UG TEL.
15' TEL. EASEMENT
FIBER OPTIC ACCESS MH 21+19
P/POLE 19+97
P/POLE 20+64
GUY 20+55
DRIVE APPROACH 20+90
MB 19+54
MB 19+49
FH 20+97
WV 19+97
ST. DR. 20+90
SWALE 20+69
PED. 20+09
UG TEL X-OVER DEPTH UNKNOWN
20+00 723.50
UG TEL. 19+89
P/POLE 17+66
DRIVE APPROACH 17+48 & 18+93
MB 17+40
ST. DR. 18+93 (NO DR. PIPE)
ST. DR. 17+48
PED. 17+66
WV 17+25
8" N12 17+32 TO 17+61
END DITCH @ 17+32, F/L = 721.05
18+00 723.21
FIBER OPTIC ACCESS MH 17+69
P/POLE 15+47
DRIVE APPROACH 15+73
MB 15+81
WV 15+93
PED. 15+47
ST. DR. 15+73
F/L DITCH = 720.69
12" N12 15+62 TO 15+82 (REMOVE)
16+00 722.91
FIBER OPTIC ACCESS MH 15+51
CENTER 5' DIA. GARDEN 15+93
SEE PLAN FOR PIPE ELEVATIONS
P/POLE 14+38
DRIVE APPROACH 13+61 & 14+50
CM 13+30
GUY 14+25
GARDEN 13+70 TO 14+36
12" N12 14+41 TO 14+61 (REMOVE)
MB 13+77
MB 14+85
PB 14+86
ST. DR. 14+50
GARDEN 13+33 TO 13+52
ST. DR. 13+61
F/L DITCH = 720.15
FO TEL. X-OVER, DEPTH UNKNOWN
LOW SPOT 14+40, 720.7
LOW SPOT 14+39, 720.4
14+00 722.31
TOE LOW AREA 13+86, 720.2
LAVA ROCK GARDEN 13+76 TO 13+79
FIBER OPTIC ACCESS MH 13+27
6" N12 13+29 TO 14+39 (REMOVE)
BEGIN 10' TEL. EASEMENT 13+29.88
UG 1 TEL. FO 13+27
UG 2 TEL. 13+27
F/L = 719.61
12+00 721.65
F/L = 719.07
10+00 721.37
THIS EXCAVATED AREA FROM 3+34.5 TO 17+32 WILL BE PAID FOR UNDER ITEM 209 DITCH CLEANOUT SEE PLAN SHEET
W.V. 8+04 RAISE BY OTHERS
C.B. 7+77
FIBER OPTIC ACCESS MH 8+36
PED. 8+42
CM
FIBER OPTIC 8+45
CB 7+59
WINDOW
6" CLAY
18" CLAY
18" CONC.
8" CLAY/BLOCKED W/CONC.
EX. EP
F/L = 718.60
8+25 720.76
UG 1 TEL. 8+32
UG 2 TEL. 8+66
UG 2 TEL. 8+49
UG 1 TEL. 8+00
UG 1 TEL. 8+32
UG 2 TEL. 8+43
PROVIDE 1' WIDE SHLD. WHERE SHOWN THEN SLOPE TO EXIST. AS SHOWN DO NOT GO PAST R/W
SEE PLAN SHEET FOR DITCH LOCATIONS
BEGIN WIDENING @ 6+79.13
PROVIDE BUTT JOINT & BEGIN OVERLAY @ 6+79.13 SEE PLAN SHEET
RIDGEVILLE TEL., DEPTHS UNKNOWN
NOTE: CLEANOUT & RESHAPING OF EXIST. DITCH FROM 3+34.5 TO 17+32 WILL BE PAID FOR UNDER ITEM 209 - LIN. FT.
CREATED 3-7-2012
REVISED 8-14-2012
REVISED 8-22-2012
REVISED 4-02-2014
REVISED 5-12-2014
T.R U
BETWEEN S.R. 34 & S.R. 66
ROAD & DRAINAGE IMPROVEMENTS
12/14
R13/ROADS/U-34T066/XS1
R/W

FULL CROSS SECTION

CROSS SECTIONS - STA. 24+00 TO 36+00

	EARTHWORK			
	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
36+00	48	44		
			367	300
34+00	51	37		
			94	69
33+50	51	37		
33+10	47	55		
			191	224
32+00	47	55		
			504	385
30+11 AH	97	55		
30+11 BK	1	1		
			8	8
28+00	1	1		
			7	7
26+00	1	1		
			7	7
24+00	1	1		
			7	7
22+00	1	1		
TOTAL THIS SHEET			1185	1007

1343 L.F. @ 0.378%

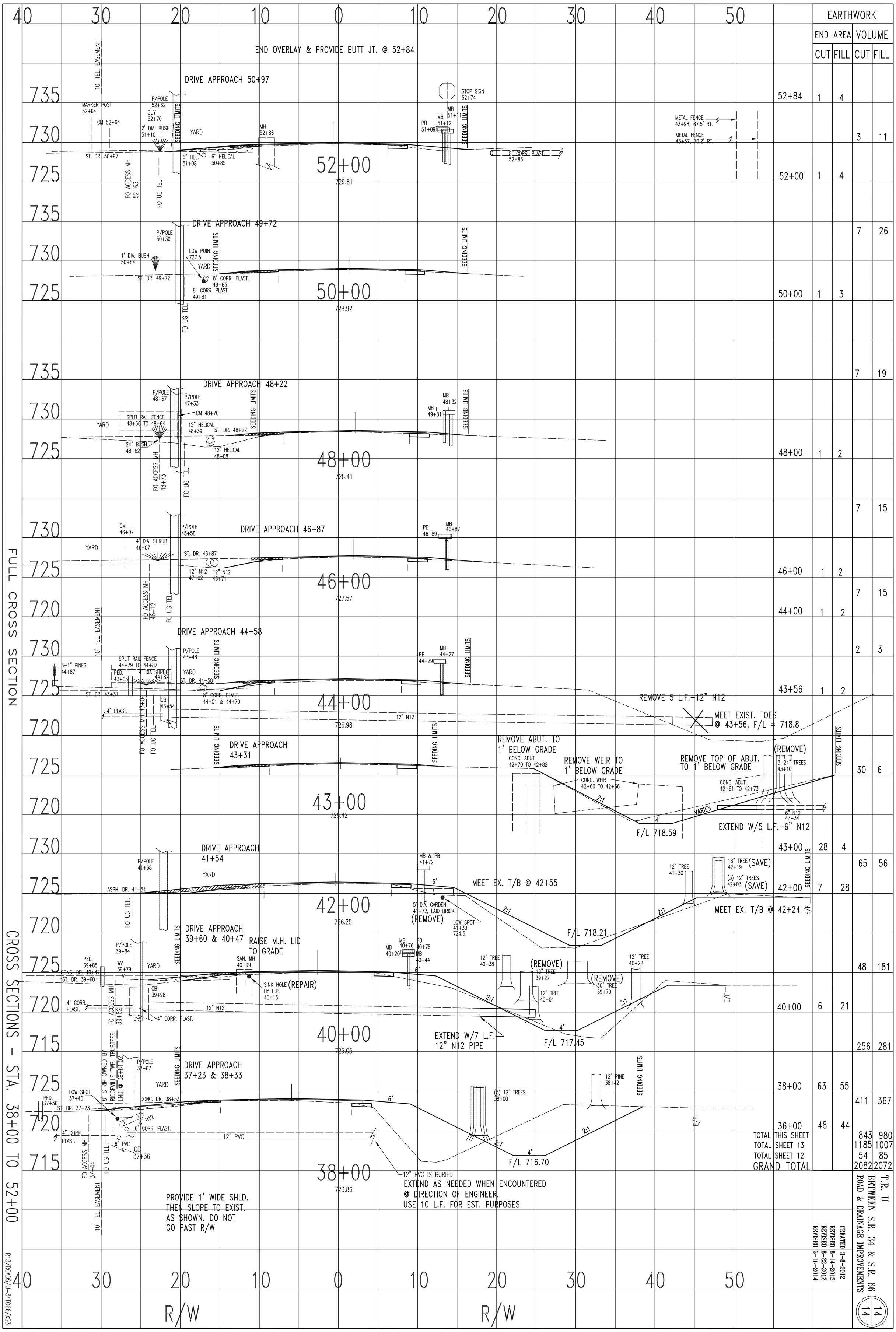
10' TEL. EASEMENT
8' STRIP OWNED BY RIDGEVILLE TWP. TRUSTEES
P/POLE 35+49
PED. 35+48
YARD
FO UG TEL.
RAISE M.H. LID TO GRADE
SAN. MH 36+98
MB 35+14
MB 36+86
36+00
723.84
(4) 12" TREES 36+85
12" TREE 35+94
SEEDING LIMITS
6" PINE 35+02
E/F
(REMOVE 7 L.F.)
10" N12, 35+40
8" HELICAL 36+51
(REMOVE 7 L.F.)
TILE E, N, & S. 35+39
F/L 715.94
4" CORR. PLAST. OUTLET BURIED.
EXTEND AS NEEDED WHEN ENCOUNTERED @ DIRECTION OF ENGINEER. PAY AS EXTRA
DRIVE APPROACH 33+10 & 34+90
P/POLE 33+29
LOW SPOT 33+44 721.48
CONC. DR. 34+90
ST. DR. 33+10
C.B. 33+65
4" CORR. PLAST.
FO ACCESS MH 33+39
8" CORR. PLAST.
8" CORR. PLAST. OUTLET BURIED.
EXTEND AS NEEDED WHEN ENCOUNTERED @ DIRECTION OF ENGINEER. PAY AS EXTRA
34+00
722.43
DRIVE APPROACH 33+31
MB 33+05
ASPH. DR. 33+31
HDWL., CONC. PAVERS 33+21 & 33+42
(REMOVE) 18" TREE 33+09
12" TREE 34+98
8" PINE 33+16
8" PINE 33+17
(2) 8" PINES, 720.91
8" PINE 33+15
P/POLE 33+42
8" PINE 33+67
8" PINE 33+54
8" PINE 33+59
DO NOT REMOVE TREES SOUTH OF SOUTH T/B
POND
12" HELICAL, 34+95
(REMOVE 10 L.F.)
SWALE 34+93
4" ALUM., 34+28 (REMOVE 8 L.F.)
75' LENGTH OF CHAIN-LINK FENCE (SEE PLAN SHEET)
F/L DITCH 715.19
60" CMP 33+42
60" CMP 33+21
REMOVE 21 L.F.-60" CMP & CONC. PAVER HEADWALLS
PLACE 50 L.F.-60" N12
F/L INLET @ 33+56, 21.8' RT. = 715.02
F/L OUTLET @ 33+06, 22.0' RT. =714.83
END 5' TEL. EASEMENT 33+48.32
T/MOUND
POND
3" PINE 32+02
MB 32+92
4' DIA. GARDEN 32+92
(REMOVE) 18" TREE 32+84
12" TREE 32+54
3" PINE 32+98
SWALE, 32+38
CUT SHALLOW SWALE @ 32+38± & FILL LOW AREA AS DIRECTED BY ENGINEER
LOW SPOT 32+38 719.2
F/L 714.43
32+00
722.00
P/POLE 30+66
24" TREE
P/POLE 29+92
END WIDENING TAPER STA. 30+00, SEE PLAN SHEET
DRIVE APPROACH 29+70
REMOVE 21 L.F. (SEE PLAN)
MB 29+51
P/POLE 29+99
6" PINE 29+60
NOTE: ALL TREES 12" & UNDER WILL BE REMOVED UNDER CLEARING & GRUBBING. ALL OTHERS WILL BE PAID FOR INDIVIDUALLY. (STA. 30+00± TO 43+60±
ASPH. DR. 29+78
PED. 29+50
12" N12 29+48
30+00
30+11
UG TEL. X-OVER DEPTH UNKNIWN
63" X 98" CONC. ELLIPTICAL PIPE 30+06
63" X 98" CONC. ELLIPTICAL PIPE 30+11
12" N12 30+06
W.V. 29+56
(SEE PLAN ON PROP. PIPING)
(REMOVE 13 L.F.)
6" PLAST. 30+14
4" CORR. PLAST., 30+75 (REMOVE 14 L.F.)
8" CMP, 30+11
(REMOVE 22 L.F.)
HDWL., CONC. PAVERS 30+02
FO ACCESS MH, 29+78
FO UG TEL.
10' TEL. EASEMENT
8' STRIP OWNED BY RIDGEVILLE TWP. TRUSTEES BEGIN @ 29+93.12
10" CORR PLAST. 30+01
30+00
721.97
8" CMP 30+08
EXIST. LARGE CONC. SLOPE PROT. 30+04 TO 30+31
F/L DITCH @ PIPE (30+13) = 713.72
DITCH GRADE = 1343' @ 0.378% TO STA. 43+56
F/L DITCH @ 43+56 = 718.8
CONC. HDWL. 29+96 TO 30+27
REMOVE 21 L.F. (SEE PLAN)
REMOVE HDWL. & 1 SEC. EX. PIPE & EXTEND. (SEE PLAN)
BEGIN 5' TEL. EASEMENT 29+50.44
END 15' TEL. EASEMENT 29+50.44
P/POLE 27+95
PED. 27+68
BEGIN WIDENING TAPER STA. 29+00, SEE PLAN SHEET
DRIVE APPROACH 28+12
ST. DR. 28+12
MB 28+41
UG TEL. X-OVER DEPTH UNKNOWN
28+00
723.44
DRIVE APPROACH 25+19
P/POLE 25+49
ST. DR. 25+19
MB 25+44
GARDEN 25+50
FO ACCESS MH 26+59
26+00
723.60
P/POLE 23+06
PED. 23+08
24+00
723.64
15' TEL. EASEMENT
PROVIDE 1' WIDE SHLD. WHERE SHOWN THEN SLOPE TO EXIST. AS SHOWN DO NOT GO PAST R/W
R/W
R/W

CREATED 3-7-2012
REVISED 8-14-2012
REVISED 4-02-2014
REVISED 5-16-2014

T.R. U
BETWEEN S.R. 34 & S.R. 66
ROAD & DRAINAGE IMPROVEMENTS

13/14

R/13/ROADS/U-34T066/XS2



FULL CROSS SECTION

CROSS SECTIONS - STA. 38+00 TO 52+00

	EARTHWORK			
	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
52+84	1	4		
			3	11
52+00	1	4		
			7	26
50+00	1	3		
			7	19
48+00	1	2		
			7	15
46+00	1	2		
			7	15
44+00	1	2		
			2	3
43+56	1	2		
			30	6
43+00	28	4		
			65	56
42+00	7	28		
			48	181
40+00	6	21		
			256	281
38+00	63	55		
			411	367
36+00	48	44		
TOTAL THIS SHEET			843	980
TOTAL SHEET 13			1185	1007
TOTAL SHEET 12			54	85
GRAND TOTAL			2082	2072

T.R. U
BETWEEN S.R. 34 & S.R. 66
ROAD & DRAINAGE IMPROVEMENTS

14/14

CREATED 3-8-2012
REVISED 8-14-2012
REVISED 8-22-2012
REVISED 5-16-2014

R13/ROADS/U-34T066/XS3