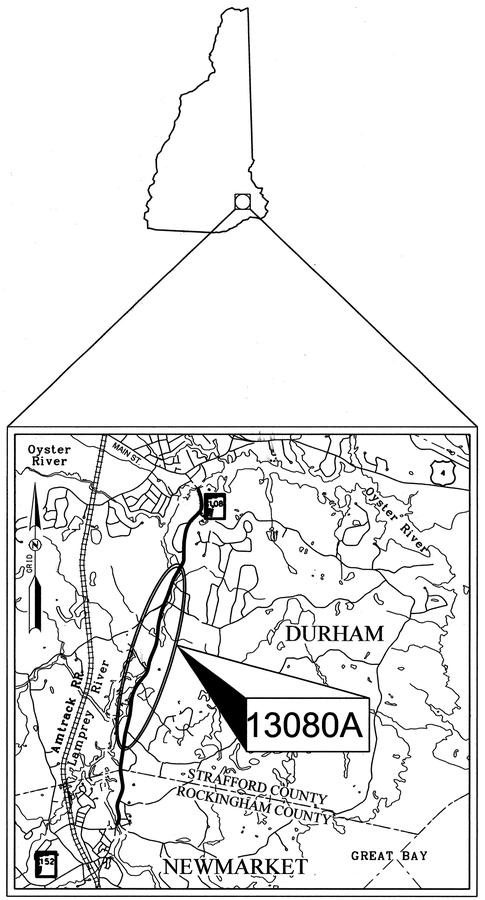
STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLANS
FEDERAL AID PROJECT

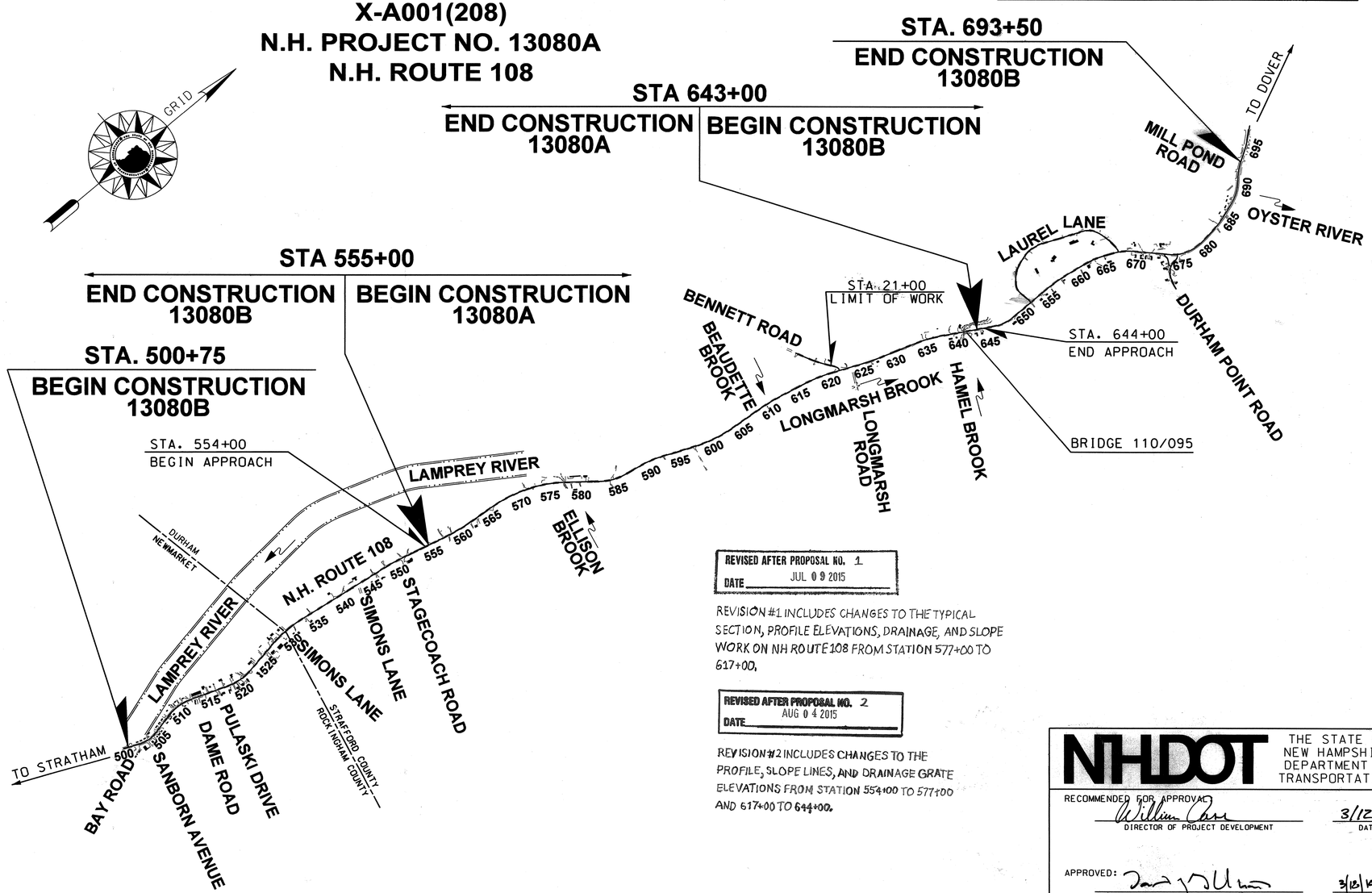
X-A001(208)
N.H. PROJECT NO. 13080A
N.H. ROUTE 108

DESIGN DATA	
AVERAGE DAILY TRAFFIC 20 14	11,000
AVERAGE DAILY TRAFFIC 20 34	13,000
PERCENT OF TRUCKS	7.4%
DESIGN SPEED	30,35,45 MPH
LENGTH OF PROJECT	1.70 MILES



LOCATION MAP

1 ½ 0 1 2 mi.
GRAPHIC SCALE



REVISED AFTER PROPOSAL NO. 1
DATE JUL 09 2015

REVISION #1 INCLUDES CHANGES TO THE TYPICAL SECTION, PROFILE ELEVATIONS, DRAINAGE, AND SLOPE WORK ON NH ROUTE 108 FROM STATION 577+00 TO 617+00.

REVISED AFTER PROPOSAL NO. 2
DATE AUG 04 2015

REVISION #2 INCLUDES CHANGES TO THE PROFILE, SLOPE LINES, AND DRAINAGE GRATE ELEVATIONS FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

TOWNS OF DURHAM & NEWMARKET

COUNTIES OF STRAFFORD AND ROCKINGHAM

SCALE: 1" = 900'

NHDOT — THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

RECOMMENDED FOR APPROVAL: William Cass — DIRECTOR OF PROJECT DEVELOPMENT — DATE 3/12/14

APPROVED: David L. Sanborn — ASSISTANT COMMISSIONER AND CHIEF ENGINEER — DATE 3/13/14

U. S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

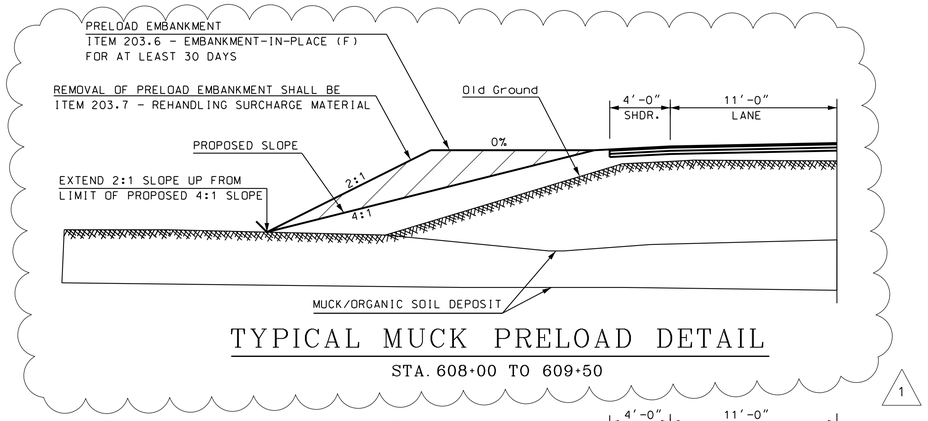
APPROVED:
DIVISION ADMINISTRATOR — DATE

FEDERAL PROJECT NO.	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
X-A001(208)	13080A	1	119

DRAWN BY JP — DATE 3/14
CHECKED BY RLP — DATE 3/14

STATE OF NEW HAMPSHIRE ROBERT FAULKNER No. 12440 LICENSED PROFESSIONAL ENGINEER
HIGHWAY

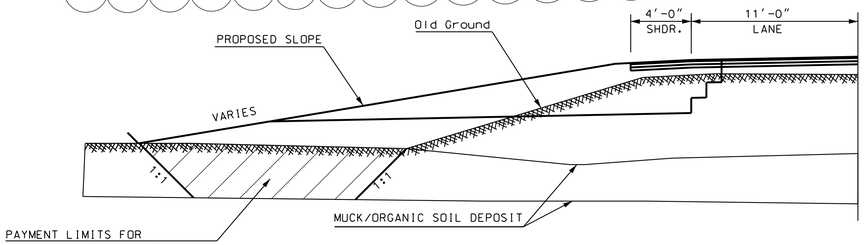
PLANS PREPARED BY
CHA
11 King Court - Keene, NH 03431-4648
Main: (603) 357-2445 / www.chacompanies.com
BY: 3-6-14



TYPICAL MUCK PRELOAD DETAIL

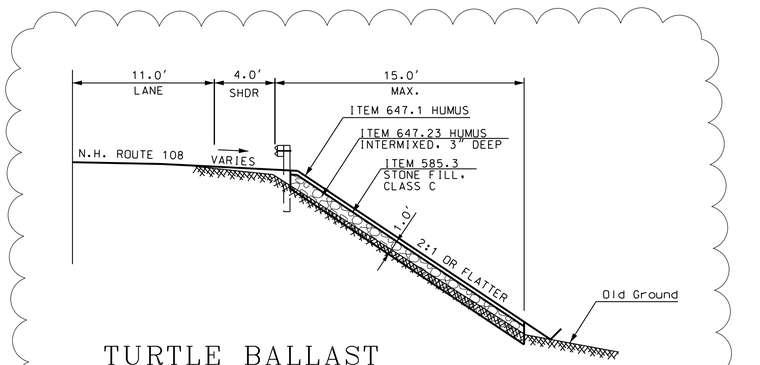
STA. 608+00 TO 609+50

1



TYPICAL MUCK REMOVAL DETAIL

STA. 556+00 TO 558+00



TURTLE BALLAST

STA. 605+50 TO 616+50 RT.

NOTE:
NO GEOTEXTILE IS NEEDED
FOR TURTLE BALLAST

1

CONSTRUCTION SEQUENCING NOTES

A. PLACE A 3/4" SHIM FROM STATION 513+00 TO STATION 685+50 UTILIZING ITEM 411.3 - PLANT MIX SURFACE (AC). PAVER SHIM. THERE IS NO PLAN COVERAGE OR ADDITIONAL DETAILS FOR THIS WORK EFFORT.

B. THE CONSTRUCTION SEQUENCE FOR THE AREAS OF RECLAIM (STA. 555+00 TO 577+00, STA. 617+00 TO 634+50, & STA. 641+50 TO 644+00) WILL BE:

1

1. STEP-BOX WIDEN THE ROADWAY SHOULDERS 9' FROM THE CENTERLINE, BY SEGMENT.

2. PAVE THE SHOULDERS (9' FROM THE CENTERLINE TO THE PROPOSED EDGE OF PAVEMENT) USING 403.11 - HOT BITUMINOUS PAVEMENT, MACHINE METHOD.
   6" NOMINAL:
   1" WEARING COURSE, 0.057 TONS/SY
   2 1/2" BINDER COURSE, 0.142 TONS/SY
   2 1/2" BASE COURSE, 0.142 TONS/SY

3. COLD PLANE THE ENTIRE LENGTH OF PAVEMENT UTILIZING ITEM 417. - COLD PLANING BITUMINOUS SURFACES
   STA. 555+00 TO 577+00 - 1.5" DEPTH
   STA. 617+00 TO 621+50 - 1.5" DEPTH
   STA. 621+50 TO 634+50 - 2.0" DEPTH
   STA. 641+50 TO 644+00 - 2.0" DEPTH

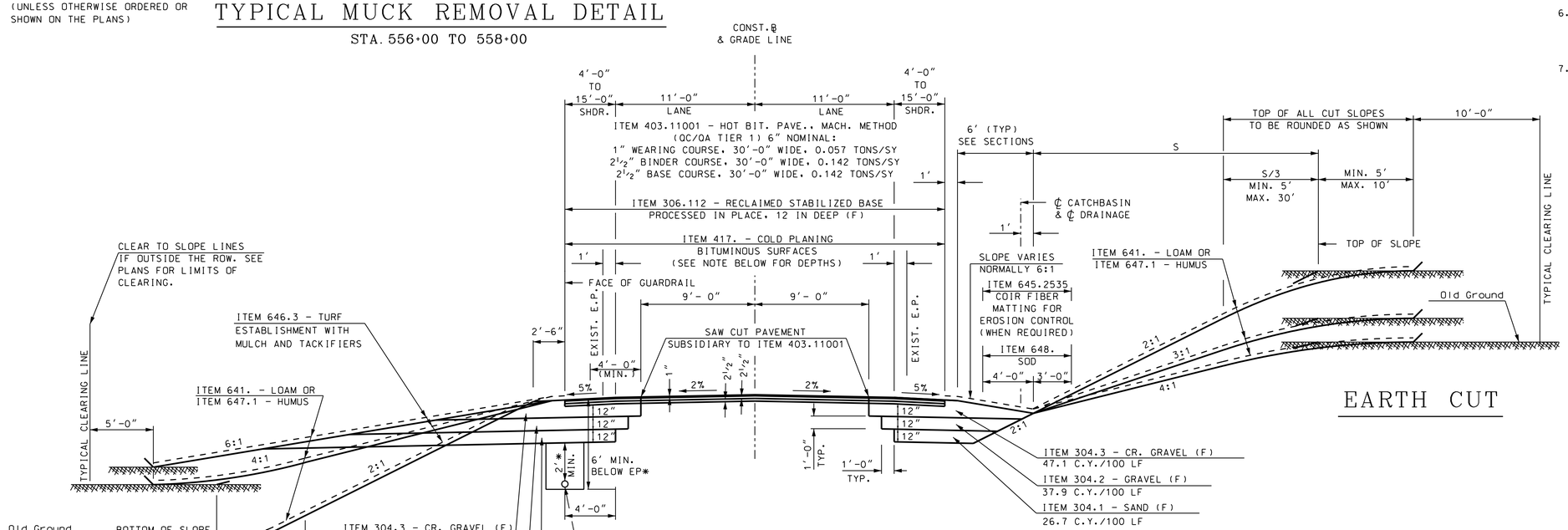
1

4. RECLAIM THE ENTIRE LENGTH OF PAVEMENT UTILIZING ITEM 306.112 - RECLAIMED STABILIZED BASE PROCESSED IN PLACE, 12 IN DEEP (F)

5. PLACE ITEM 306.36 - STONE FOR RECLAIMED STABILIZED BASE TO A THICKNESS OF 3 INCHES FOR THE ENTIRE LENGTH OF THE ROADWAY.

6. RECLAIM THE ENTIRE WIDTH OF THE ROADWAY UTILIZING ITEM 306.112 - RECLAIMED STABILIZED BASE PROCESSED IN PLACE, 12 IN DEEP (F)

7. PAVE ROADWAY TO DEPTHS SPECIFIED IN THE TYPICAL SECTION UTILIZING ITEM 403.11001 - HOT BITUMINOUS PAVEMENT, MACHINE METHOD (QC/QA TIER 1).



EARTH CUT

EARTH FILL

NOTE:
ITEM 417. - COLD PLANING BITUMINOUS SURFACES
STA. 555+00 TO 577+00 - 1.5" DEPTH
STA. 617+00 TO 634+50 - 2.0" DEPTH
STA. 641+50 TO 644+00 - 2.0" DEPTH
THESE DEPTHS DO NOT INCLUDE THE 3/4" PAVER SHIM DEPTH

1

NH ROUTE 108

STA. 555+00 TO 577+00
STA. 617+00 TO 634+50
STA. 641+50 TO 644+00

1

GENERAL NOTES

1. NO SLOPE ROUNDING SHALL APPLY IN WETLANDS AREAS.

2. SEE PLANS AND CROSS SECTIONS FOR UNDERDRAIN PLACEMENT AND DEPTHS.

3. USE ITEM 645.44 - TEMPORARY SLOPE STABILIZATION TYPE D (WILDLIFE FRIENDLY) ON ALL SLOPES 3:1 OR STEEPER.

4. CONSTANTS LISTED ARE FOR 2% NORMAL CROWN CROSS SLOPES ONLY.

5. USE ITEM 403.6 - PAVEMENT JOINT ADHESIVE ON ALL LONGITUDINAL JOINTS ON ALL PAVEMENT COURSES.

6. CLEARING IN SOME AREAS HAS BEEN SHOWN TO SLOPE LINE ONLY AND LESS THAN 10', SEE GENERAL PLANS FOR LIMITS OF CLEARING.

7. SHOULDER SELECT MATERIAL CONSTANTS ARE BASED ON A 4' SHOULDER.

2

8. SEE CROSS SECTIONS FOR SLOPE AND SLOPE ROUNDING LIMITS.

REVISIONS AFTER PROPOSAL			
STATION	DATE	NUMBER	DESCRIPTION
575+50	6/5/2015	1	PROFILE REVISION
554+00	8/3/2015	2	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00

EXISTING DETAIL	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

CHA PROJ. NO. 24344

PLOTTED DATED 8/1/2015

FILE NAME - V:\PROJECTS\NHN\24344\CADD_MSTN\PRJCUT SHEETS\TYPICALS\13080A_TYPICAL_RAP.DGN

STATE OF NEW HAMPSHIRE

DEPARTMENT OF TRANSPORTATION ∘ BUREAU OF HIGHWAY DESIGN

TYPICAL SECTIONS

CHA
11 King Court · Keene, NH 03431-4648
Main: (603) 357-2445 · www.chacompanies.com

MODEL	DGN FILENAME	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
Default	13080A_Typical_RAP.dgn	13080A	5B	119

SUMMARY OF QUANTITIES (ESTIMATE)

THIS INFORMATION IS FOR BIDDING PURPOSES ONLY

CLEARING AND GRUBBING

ITEM NO.		201.1	201.21	201.22
THE AREAS LISTED BELOW ARE SHOWN ON THE PLANS BY LETTER ID's		CLEARING AND GRUBBING (F)	REMOVING SMALL TREES	REMOVING LARGE TREES
LOCATION	DESIGNATED AREAS	ACRES	EA	EA
N.H. ROUTE 108				
STA. 555+40.3 TO 557+21.6, LT	A	0.10		
STA. 556+32.8 TO 558+12.5, RT	B	0.06		
STA. 557+49.2 TO 558+82.8, LT	C	0.05		
STA. 559+11.5 TO 561+12.3, LT	D	0.09		
STA. 558+29.1 TO 561+79.5, RT	E	0.20		
STA. 561+43.4 TO 562+71.4, LT	F	0.04		
STA. 562+85.7 TO 565+41.9, LT	G	0.09		
STA. 566+11.6 TO 568+40.0, LT	H	0.04		
STA. 566+50.0 TO 572+50.9, RT	I	0.19		
STA. 572+09.5 TO 572+57.2, LT	J	0.01		
STA. 572+82.8 TO 573+13.2, LT	K	0.01		
STA. 572+63.3 TO 574+82.7, RT	L	0.04		
STA. 575+80.9 TO 576+50.8, LT	M	0.01		
STA. 580+67.8 TO 580+93.2, RT	N	0.01		
STA. 581+05.4 TO 581+44.0, LT	O	0.03		
STA. 586+77.4 TO 687+21.1, LT	P	0.03		
STA. 586+80.9 TO 590+46.3, RT	Q	0.09		
STA. 588+68.0 TO 596+15.4, LT	R	0.17		
STA. 592+43.8 TO 592+81.6, RT	S	0.01		
STA. 598+04.2 TO 598+52.4, LT	U	0.01		
STA. 598+85.4 TO 599+70.1, LT	V	0.02		
STA. 600+17.7 TO 600+70.0, LT	W	0.01		
STA. 600+90.5 TO 605+00.0, LT	X	0.11		
STA. 603+06.3 TO 604+06.9, RT	Y	0.01		
STA. 605+45.9 TO 609+28.0, RT	Z	0.09		
STA. 605+46.6 TO 610+68.2 LT	AA	0.05		
STA. 610+68.2 TO 619+80.8, LT	AB	0.18		
STA. 614+58.1 TO 614+91.3, RT	AC	0.02		
STA. 617+40.4 TO 617+63.6, RT	AD	0.01		
STA. 621+14.3 TO 621+25.7, LT	AE	0.01		
STA. 622+52.6 TO 623+38.1, RT	AF	0.07		
STA. 623+01.2 TO 628+62.0, LT	AG	0.19		
STA. 629+02.5 TO 632+00.0, RT	AH	0.09		
STA. 632+00.0 TO 637+34.3, RT	AI	0.18		
STA. 632+38.0 TO 634+26.5, LT	AJ	0.08		
STA. 638+42.7 TO 638+62.6, LT	AK	0.01		
STA. 641+71.0 TO 642+50.0, LT	AL	0.06		
STA. 570+25.1, 29.5' LT			1	
STA. 572+33.3, 28.4' LT			1	
STA. 572+68.2, 27.4' LT			1	
STA. 572+76.2, 29.3' LT			1	
STA. 573+06.7, 28.7' LT			1	
STA. 573+03.9, 41.9' LT			1	
STA. 573+88.8, 39.8' LT			1	
STA. 573+96.4, 42.2' LT			1	
STA. 574+17.5, 38.1' LT			1	
STA. 574+82.3, 21.6' RT				1
STA. 574+84.7, 24.7' RT				1
STA. 575+17.4, 18.6' RT				1
STA. 575+40.5, 21.6' RT				1
STA. 642+58.0, 24.6' RT			1	
SUBTOTAL		**2.5**	**10**	**4**
ROUNDING		0.0	0	0
TOTAL		**2.5**	**10**	**4**

EARTHWORK SUMMARY

LINE	DESCRIPTION		CUBIC YARD NH ROUTE 108	BENNETT ROAD	SUBTOTAL	ROUNDING	TOTAL	
1	COMMON EXCAVATION IN SECTIONS	(Include Boulders)	14678.9 2	85.6 2	14764.5 2			
2	TOPSOIL REMOVED BENEATH FILL SECTIONS	(No Boulders)	2309.1 2	20.9 2	2330.0 2			
3	DRIVE AND APPROACH EXCAVATION	(Include Boulders)	612.7		612.7			
4	COMMON EXCAVATION FROM DRAINAGE ***		13.8		13.8			
5	BOULDERS IN SECTIONS (DEDUCT 5% from Common Excavation)		733.9 2	4.3 2	738.2 2			
6	BOULDERS IN DRIVE SECTIONS (DEDUCT 5% from Drive Excavation above)		30.6		30.6			
7	**COMMON EXCAVATION FOR ESTIMATE**	**ITEM 203.1**	**16849.9** 2	**102.3** 2	**16952.2** 2	**47.8**	**17000**	2
8	MUCK EXCAVATION IN SECTIONS		1118.7		1118.7			
9	MUCK EXCAVATION FOR DRAINAGE		103.4		103.4			
10	**MUCK EXCAVATION FOR ESTIMATE**	**ITEM 203.4**	**1222.1** 1	**0.0**	**1222.1** 1	**2.9**	**1225**	1
9	ROCK EXCAVATION - IN SECTIONS		3733.8 2		3733.8 2			
10	ROCK EXCAVATION FROM DRAINAGE ***		4.8		4.8			
12	BOULDERS IN SECTIONS (5%)		733.9 2	4.3 2	738.2 2			
13	BOULDERS IN DRIVE SECTIONS (Deduct 5% from Drive Excavation above)		30.6		30.6			
14	**ROCK EXCAVATION FOR ESTIMATE**	**ITEM 203.2**	**4503.2** 2	**4.3** 2	**4507.5** 2	**42.7**	**4550**	2
15	BOULDERS IN STRUCTURES ***		491.9		491.9			
16	**ROCK STRUCTURE EXCAVATION FOR ESTIMATE**	**ITEM 206.2**	**491.9** 2	**0.0**	**491.9** 2	**3.1**	**495**	2
17	SECTIONS FILL		9319.4 2	19.0 2	9338.4 2			
18	TOPSOIL REMOVED BENEATH FILL SECTIONS		2309.1 2	20.9 2	2330.0 2			
19	MUCK REPLACEMENT IN SECTIONS		1118.7		1118.7			
21	DRIVE AND APPROACH EXCAVATION	(Include Boulders)	612.7		612.7			
22	**EMBANKMENT-IN-PLACE (F) FOR ESTIMATE**	**ITEM 203.6**	**13359.9** 2	**39.9** 2	**13399.8** 2		**13400**	2
	REHANDLING SURCHARGE MATERIAL (SEE ITEM 203.7)		338.8		338.8			
	REHANDLING SURCHARGE MATERIAL FOR ESTIMATE	**ITEM 203.7**	**338.8** 1	**0.0**	**338.8** 1	**1.2** 1	**340**	1

***FROM DRAINAGE SUMMARY SHEET
LINE 7 ADD 1 THRU 4 DEDUCT LINE 5 & 6
(No Boulders) NO % CALCULATED FOR BOULDERS
(Include Boulders) 5% DEDUCTED FOR BOULDERS

FENCING AND STONE WALL

ITEM NUMBER	202.8	572.1	572.2	607.5540	607.9140	607.9150	607.9756	607.9830	670.95
DESCRIPTION	REMOVAL OF FENCE	RECONSTRUCTING STONE WALL ONE STONE WIDE	RECONSTRUCTING STONE WALL MULTIPLE STONES WIDE	WOOD FENCE PICKET, 4' HIGH	RESETTING WOVEN WIRE FENCE, 4' HIGH	RESETTING WOVEN WIRE FENCE, 5' HIGH	RESETTING WOOD FENCE, 5'6" HIGH	RESETTING MISCELLANEOUS FENCE TYPES (IRON, BARBED WIRE, ETC.), 3' HIGH	TEMPORARY SAFETY FENCE
UNIT	LF	LF	LF	LF	LF	LF	LF	LF	LF
LOCATION									
NH ROUTE 108									7000.0
STA. 556+22.1, 32.5', RT. TO 557+10.3, 31.6', RT.							88.2		
STA. 563+45.5, 35.2', LT. TO 566+05.9, 44.3', LT.					264.1				
STA. 568+15.8, 44.2', RT. TO 572+50.0, 33.5', RT.	446.8								
STA. 572+63.3, 33.5', RT. TO 577+32.9, 62.4', RT.	486.3								
STA. 573+08.3, 28.0', LT. TO 574+70.4, 42.3', LT.						121.3			
STA. 586+90.0, 47.1', RT. TO 590+26.2, 28.7', RT.	334.3								
STA. 604+16.0, 28.6', LT. TO 605+46.5, 32.3', LT.	130.3								
STA. 608+35.8, 44.0', LT. TO 608+52.2, 44.1', LT.	16.4								
STA. 618+00.0, 34.8', LT. TO 619+15.0, 32.4', LT.								115.0	
STA. 639+52.6, 29.4', RT. TO 640+65.8, 30.2', RT.				112.8					
STA. 617+32.4, 36.3', LT. TO 619+05.7, 30.8', LT.		176.4							
STA. 627+15.5, 23.8', LT. TO 628+61.0, 36.70, LT.		146.0							
STA. 632+23.4, 33.9', LT. TO 632+77.1, 31.4', LT.		53.7							
STA. 633+19.1, 31.8', LT. TO 634+23.0, 42.0', LT.			114.4						
STA. 632+03, 29.2', RT. TO 637+53.9, 23.1', RT.		547.0							
SUBTOTAL	**1414.1**	**923.1**	**114.4**	**112.8**	**264.1**	**121.3**	**88.2**	**115.0**	**7000.0**
ROUNDING	5.9	1.9	0.6	2.2	5.9	3.7	1.8	5.0	100.0
TOTAL	**1420**	**925**	**115**	**115**	**270**	**125**	**90**	**120**	**7100**

REVISIONS AFTER PROPOSAL

STATION	STATION	DESCRIPTION	DATE	NUMBER
575+50	618+50	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00	6/5/2015	1
554+00	644+00	PROFILE REVISION	8/3/2015	2

		DATE
EXISTING DETAIL	NHDOT	02/10
NEW DESIGN	P.R.P.	8/15
SHEET CHECKED	J.P.	8/15
AS BUILT DETAILS		DATE

CHA PROJ. NO. 24344

PLOTTED DATED 8/1/2015

FILE NAME = V:\PROJECTS\KNH\24344\CADD_MSTN\PRJ\CUT SHEETS\13080A_QTY RAP2.DGN

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Main: (603) 357-2445 • www.chacompanies.com

STATE OF NEW HAMPSHIRE

DEPARTMENT OF TRANSPORTATION ∘ BUREAU OF HIGHWAY DESIGN

QUANTITY SUMMARY SHEET
1 OF 4

DGN FILENAME	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_QTY RAP2.dgn	13080A	8B	119

SUMMARY OF QUANTITIES (ESTIMATE)

THIS INFORMATION IS FOR BIDDING PURPOSES ONLY

SURFACING MATERIALS

ITEM NO.	209.1	304.1	304.2	304.3	304.32	304.35	306.112	306.36	403.11	403.11001	403.11002	403.12	403.4	403.6	403.99	411.3	415.8	417.	628.2
DESCRIPTION	GRANULAR BACKFILL	SAND (F)	GRAVEL (F)	CRUSHED GRAVEL (F)	CRUSHED GRAVEL FOR SHOULDER LEVELING	CRUSHED GRAVEL FOR DRIVES	RECLAIMED STABILIZED BASE PROCESSED IN PLACE, 12 IN DEEP (F)	STONE FOR RECLAIMED STABILIZED BASE	HOT BITUMINOUS PAVEMENT, MACHINE METHOD	HOT BITUMINOUS PAVEMENT, MACHINE METHOD (QC/QA TIER 1)	HOT BITUMINOUS PAVEMENT, MACHINE METHOD (QC/QA TIER 2)	HOT BITUMINOUS PAVEMENT, HAND METHOD	MATERIAL TRANSFER VEHICLE (MTV)	PAVEMENT JOINT ADHESIVE	TEMPORARY BITUMINOUS PAVEMENT	PLANT MIX SURFACE TREATMENT (AC), PAVER SHIM	GLASS FIBER PAVEMENT REINFORCEMENT MESH	COLD PLANING BITUMINOUS SURFACES	SAWED BITUMINOUS PAVEMENT
UNIT	CY	CY	CY	CY	TON	CY	SY	TON	TON	TON	TON	TON	TON	LF	TON	TON	SY	SY	LF
LOCATION	2	2	2	2			1	1	1	1	1		1	1			1		1
NH ROUTE 108	183.9	4370	4896	5770		649.2	15568	2490.9	2417.5	6174.2	2290.6	209.5	10882.3	23000.0			10864.2	29042.0	565.6
BENNETT ROAD			2 146	2 71						76.3			76.3	450.0				70.8	23.4
LONGMARSH ROAD										19.6			19.6	150.0				87.7	24.1
DRAINAGE MUCK REMOVAL	126.2																		
3/4" PAVEMENT SHIM					1917.0											2733.0		225.0	
DRAINAGE TRENCH PATCH	2													1	1 109.6				
SUBTOTAL	310.1	4370	5042	5841	1917.0	649.2	15568	2490.9	2417.5	6270.1	2290.6	209.5	10978.2	23600.0	109.6	2733.0	10864.2	29425.5	613.1
ROUNDING	9.9				33.0	0.8		9.1	2.5	29.9	9.4	0.5	41.8	400.0	0.4	67.0	35.8	74.5	1.9
TOTAL	320	4370	5042	5841	1950	650	15568	2500	2420	6300	2300	210	11020	24000	110	2800	10900	29500	615
		2	2	2			1	1	1	1	1		1	1	1		1		1

GUARDRAIL AND CONCRETE BARRIER

ITEM NO.		202.7	203.5554	203.55549	203.5555	203.55559	606.1254	606.1255	606.127	606.1285	606.141	606.18001	606.84	
DESCRIPTION	GUARDRAIL I.D. NO.	REMOVAL OF GUARDRAIL	GUARDRAIL 50' EAGRT PLATFORM	GUARDRAIL 50' EAGRT OFFSET PLATFORM	GUARDRAIL 25' EAGRT PLATFORM	GUARDRAIL 25' EAGRT OFFSET PLATFORM	BEAM GUARDRAIL (TERM. UNIT TYPE EAGRT 50 FT.) (STEEL POST)	BEAM GUARDRAIL (TERM. UNIT TYPE EAGRT 25 FT.) (STEEL POST)	BEAM GUARDRAIL (TERMINAL UNIT TYPE G-2) (STEEL POST)	BEAM GUARDRAIL (BRIDGE APPROACH UNIT)	BEAM GUARDRAIL (CURVED W/CRT POSTS)	31" W-BEAM GUARDRAIL WITH 8" OFFSET BLOCK (STEEL POST)	ANCHOR FOR CURVED GUARDRAIL W/CRT POSTS	REMARKS
UNIT		LF	U	U	U	U	U	U	U	U	LF	LF	U	
LOCATION														
N.H. ROUTE 108														
STA. 555+92.4,21.3' TO 557+27.7,21.0', LT	R1	135.5												
STA. 558+92.1,50.3' TO 562+47.5,28.7', LT	1	216.0		1.0			1.0				37.5	300.0	1.0	
STA. 562+90.4,23.8' TO 571+33.7,39.9', LT	2	785.4		1.0			1.0				25.0	775.0	1.0	
STA. 575+96.6,18.7' TO 577+50.0,35.0', LT	3			1.0			1.0		1.0			112.5		
STA. 575+13.8,17.7' TO 578+01.3,22.2', RT	4		1.0	1.0			2.0					187.5		
STA. 584+87.7,52.5' TO 590+02.9,17.7', LT	5			1.0			1.0				37.5	462.5	1.0	
STA. 598+30.2,17.7' TO 604+80.2,17.7', LT	6			2.0			2.0					550.0		
STA. 607+01.4,17.7' TO 619+01.4,17.7', RT	7			2.0			2.0					1100.0		
STA. 608+06.8,17.7' TO 616+56.8,17.7', LT	8			2.0			2.0					750.0		
STA. 628+01.3,16.0' TO 632+26.3,16.0', RT	9	241.5				2.0		2.0				375.0		
STA. 640+34.8,22.9' TO 640+84.8,21.6', LT	10	18.0				1.0		1.0		1.0		12.5		
STA. 641+21.7,21.5' TO 642+96.7,22.5', LT	11	69.2				1.0		1.0		1.0		150.0		
STA. 639+80.7,20.0' TO 640+80.7,19.0', RT	12	19.1			1.0			1.0		1.0		50.0		
STA. 641+17.7,18.6' TO 641+92.7,19.3', RT	13	69.0				1.0		1.0		1.0		25.0		
SUBTOTAL		1553.7	1.0	11.0	1.0	5.0	12.0	6.0	1.0	4.0	100.0	4850.0	3.0	
ROUNDING		46.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	0.0	
TOTAL		1600	1	11	1	5	12	6	1	4	100	4875	3	

INCIDENTAL ITEMS

ITEM NO.	ITEM	UNIT	QUANTITY
206.19	COMMON STRUCTURE EXCAVATION EXPLORATORY	CY	100
211.11	VIBRATION MONITORING SERVICES	HR	150
214.	FINE GRADING	U	1
214.3	FINE GRADING EARTH BERMS IN ROCKCUTS	LF	750
618.61	UNIFORMED OFFICERS WITH VEHICLE	$	25000
618.7	FLAGGERS	HR	3800
619.1	MAINTENANCE OF TRAFFIC	U	1
619.25	PORTABLE CHANGEABLE MESSAGE SIGN	U	2
619.279	AUTOMATED TRAILER MOUNTED SPEED LIMIT SIGNS	U	2
621.2	RETROREFLECTIVE BEAM GUARDRAIL DELINEATOR	EA	75
621.31	SINGLE DELINEATOR WITH POST	EA	150
645.7	STORMWATER POLLUTION PREVENTION PLAN	U	1
645.71	MONITORING SWPPP AND EROSION AND SEDIMENT CONTROLS	HR	275
670.066	MAILBOX SUPPORT ASSEMBLIES	EA	6
692.	MOBILIZATION	U	1
697.11	INVASIVE SPECIES CONTROL AND MANAGEMENT PLAN	U	1
697.41	CRITICAL PATH METHOD (CPM) ELECTRONIC SCHEDULE	U	1
698.12	FIELD OFFICE TYPE B	MON	14
698.2	PHYSICAL TESTING LABORATORY	MON	12
699.	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL	$	35000
1010.15	FUEL ADJUSTMENT	$	40000
1010.2	ASPHALT CEMENT ADJUSTMENT	$	50000
1010.3	QUALITY CONTROL QUALITY ASSURANCE (QA/QC) ASPHALT	$	32000 1

SIDEWALK ITEMS

ITEM NO.	209.4	608.26	
DESCRIPTION	GRANULAR BACKFILL (GRAV)	6" CONCRETE SIDEWALK (F)	COMMENTS
UNIT	CY	SY	
LOCATION			
RTE 108			
STA. 578+00 TO 579+20, LT (ISLAND)	13.2	80.0	
SUBTOTAL	13.2	80.0	
ROUNDING	0.8	0.0	
TOTAL	14	80	

REVISIONS AFTER PROPOSAL

STATION	DESCRIPTION	DATE	NUMBER
618+50	PROFILE REVISION	6/5/2015	1
644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00	8/3/2015	2

STATION	
575+50	
554+00	

		DATE
EXISTING DETAIL	NHDOT	02/10
NEW DESIGN	P.R.P.	8/15
SHEET CHECKED	J.P.	8/15
AS BUILT DETAILS		DATE

CHA PROJ. NO. 24344

PLOTTED DATED 8/1/2015

FILE NAME = V:\PROJECTS\KNH\24344\CADD_MSTN\PRA\CUT SHEETS\13080A_QTY RAP2.DGN

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QUANTITY SUMMARY SHEET
2 OF 4

DGN FILENAME	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_QTY RAP2.dgn	13080A	9B	119

SUMMARY OF QUANTITIES (ESTIMATE)

THIS INFORMATION IS FOR BIDDING PURPOSES ONLY

ENVIRONMENTAL PROTECTION AND EROSION CONTROL

ITEM NO.	585.2	585.3	593.221	593.321	645.121	645.2535	645.3	645.42	645.482	645.512	645.531	647.23	648.
DESCRIPTION	STONE FILL, CLASS B	STONE FILL, CLASS C	GEOTEXTILE; SEPARATION CL. 2, NON-WOVEN	GEOTEXTILE; STABILIZATION CL. 2, NON-WOVEN	TEMPORARY MULCH WITH TACKIFIERS	COIR FIBER MATTING FOR EROSION CONTROL	EROSION STONE	TEMPORARY SLOPE STABILIZATION TYPE B (WILDLIFE FRIENDLY)	STUMP GRINDINGS FOR TEMPORARY EROSION CONTROL	COMPOST SOCK FOR PERIMETER BERM	SILT FENCE	HUMUS, INTERMIXED, 3" DEEP	SOD
UNIT	CY	CY	SY	SY	SY	SY	TON	SY	CY	LF	LF	CY	SY
LOCATION													
NH ROUTE 108	436.4	657.5		654.6	8621.7 (1)	2733.0	2046.0	945.8 (2)	307.1	16234.0	5411.3	165.0	2533.0
DRAINAGE MUCK REMOVAL			268.8										
FROM DRAINAGE QUANTITIES		180.9 (1)											
SUBTOTAL	436.4	838.4	268.8	654.6	8621.7	2733.0	2046.0	945.8	307.1	16234.0	5411.3	165.0	2533.0
ROUNDING	3.6	11.6	1.2	5.4	28.3	17.0	4.0	4.2	2.9	16.0	13.7	5.0	17.0
TOTAL	440	850 (1)	270	660	8650 (1)	2750	2050	950.0 (2)	310	16250	5425	170	2550

PAVEMENT MARKINGS

ITEM NO.	632.0104	632.3118	632.911
DESCRIPTION	RETROREFLECTIVE PAINT PAVEMENT MARKING 4" LINE	RETROREFLECT. THERMOPLAS. PAVE. MARKING, 18" LINE	OBLITERATE PAVE. MARKING LINE, 12" WIDE & UNDER
UNIT	LF	LF	LF
LOCATION			
NH ROUTE 108	79607.0		
BENNETT ROAD	206.0	101.6	
LONGMARSH ROAD	90.0	52.4	
TCP	88000.0		2000.0
3/4" PAVER SHIM	146000.0		
SUBTOTAL	313903.0	154.0	2000.0
ROUNDING	97.0	6.0	0.0
TOTAL	314000	160	2000

ENVIRONMENTAL PROTECTION AND TEMPORARY EROSION CONTROL

ITEM NO.	ITEM	UNIT	QUANTITY
503.101	WATER DIVERSION STRUCTURES	U	1
503.102	WATER DIVERSION STRUCTURES	U	1
503.103	WATER DIVERSION STRUCTURES	U	1
503.104	WATER DIVERSION STRUCTURES	U	1
503.105	WATER DIVERSION STRUCTURES	U	1
503.106	WATER DIVERSION STRUCTURES	U	1
503.107	WATER DIVERSION STRUCTURES	U	1
503.108	WATER DIVERSION STRUCTURES	U	1
503.201	COFFERDAMS	U	1
503.202	COFFERDAMS	U	1
645.0001	TURBIDITY BARRIER	LF	400
645.81	STORMWATER REMOVAL - TRUCKING	HR	150

CURBING

ITEM NO.			609.01123	609.01183	609.811	
DESCRIPTION	MARK NUMBER	RADIUS	STRAIGHT GRANITE CURB, 12" HIGH, W/ 3" X 3" MOUNTABLE BEVEL EDGE	STRAIGHT GRANITE CURB, 18" HIGH, W/ 3" X 3" MOUNTABLE BEVEL EDGE	BITUMINOUS CURB, TYPE B (4" REVEAL)	REMARKS
UNIT		FT	LF	LF	LF	
LOCATION						
N.H. ROUTE 108						
STA. 559+03.5, 15.0' TO 560+65.0, 15.0', LT	B-1				161.5	
STA. 560+65.0, 15.0' TO 561+75.0, 26.0', LT	B-2				109.9	
STA. 561+75.0, 26.0' TO 562+35.0, 26.0', LT	B-3				60.0	
STA. 562+35.0, 26.0' TO 562+52.8, 24.2', LT	B-4				17.8	
STA. 578+03.0, 20.0' TO 578+03.0, 26.0', LT	G-1	3.0	9.4			4" REVEAL
STA. 578+03.0, 20.0' TO 578+13.0, 20.0', LT	G-2			10.0		4" REVEAL TO 7" REVEAL
STA. 578+03.0, 26.0' TO 578+13.0, 26.0', LT	G-3			10.0		4" REVEAL TO 7" REVEAL
STA. 578+13.0, 20.0' TO 579+07.0, 20.0', LT	G-4			94.0		7" REVEAL
STA. 578+13.0, 26.0' TO 579+07.0, 26.0', LT	G-5			94.0		7" REVEAL
STA. 579+07.0, 20.0' TO 579+17.0, 20.0', LT	G-6			10.0		7" REVEAL TO 4" REVEAL
STA. 579+07.0, 26.0' TO 579+17.0, 26.0', LT	G-7			10.0		7" REVEAL TO 4" REVEAL
STA. 579+17.0, 20.0' TO 579+17.0, 26.0', LT	G-8	3.0	9.4			4" REVEAL
SUBTOTAL			18.8	228.0	349.2	
ROUNDING			1.2	2.0	0.8	
TOTAL			20	230	350	

LANDSCAPING AND SLOPE PROTECTION

ITEM NO.	641.	643.22	645.44	646.3	647.1
LOCATION	LOAM	FERTILIZER FOR REFERTILIZATION	TEMPORARY SLOPE STABILIZATION TYPE D (WILDLIFE FRIENDLY)	TURF ESTABLISHMENT WITH MULCH AND TACKIFIERS	HUMUS
UNIT	CY	TON	SY	A	CY
LOCATION					
NH RTE 108					
STA. 554+00 - 555+10, LT.	5.1 (2)	0.01		0.01 (2)	
STA. 554+00 - 558+16, RT.	95.8 (2)	0.10		0.27	
STA.555+19 - 557+25, LT.	74.9	0.08		0.21	
STA. 557+34 - 558+97, LT.	59.7	0.06		0.17	
STA. 558+25 - 561+91, RT.	139.2 (2)	0.15		0.39	
STA. 558+88 - 562+72, LT.	100.2	0.10	1366.0	0.28	
STA. 562+01 - 563+10, RT.	22.2	0.02		0.06	
STA. 562+80 - 571+39, LT.	236.6 (2)	0.25	3226.4 (2)	0.67 (2)	
STA. 563+14 - 565+65, RT.	43.5 (2)	0.05 (2)		0.12	
STA. 565+80 - 572+50, RT.	124.8 (2)	0.13		0.35	
STA. 571+51 - 574+13, LT.	74.1 (2)	0.08		0.21 (2)	
STA. 572+63 - 578+28, RT.	110.8 (2)	0.12		0.31 (2)	
STA. 574+12 - 577+52, LT.	65.7 (2)	0.07 (2)		0.19 (2)	
STA. 578+39 - 579+54, RT.	11.2	0.01		0.03	
STA. 579+65 - 583+85, RT.	49.8	0.05		0.14	
STA. 579+90 - 580+52, LT.	4.4 (1)	0.01		0.01 (1)	
STA. 580+83 - 584+70, LT.	70.2	0.07		0.20	
STA. 584+05 - 592+93, RT.		0.20		0.54	170.3
STA. 584+69 - 621+33, LT.		0.92		2.49	781.3
STA. 592+86 - 597+48, RT.		0.08		0.23	71.3
STA. 597+58 - 623+50, RT.		0.47		1.27	398.7 (2)
STA. 621+30 - 629+06, LT.		0.19		0.51	161.1 (2)
STA. 623+74 - 626+58, RT.	67.4 (2)	0.07 (2)		0.19 (2)	
STA. 629+06 - 634+84, LT.		0.13		0.35 (2)	106.3 (2)
STA. 626+65 - 639+35, RT.	261.8 (2)	0.27 (2)	3570.1 (2)	0.74 (2)	
STA. 634+94 - 635+14, LT.	1.2 (2)	0.00	15.9 (2)	0.00	
STA. 635+37 - 638+70, LT.	66.2 (2)	0.07	903.2 (2)	0.19	
STA. 638+89 - 640+10, LT.	16.0 (2)	0.02	217.6 (2)	0.04 (2)	
STA. 639+49 - 640+90, RT.	34.8 (2)	0.04		0.10	
STA. 640+19 - 640+92, LT.	9.1	0.01		0.03	
STA. 641+08 - 643+53, RT.	32.3 (2)	0.03 (2)		0.09 (2)	
STA. 642+40 - 640+92, LT.	35.0	0.04	477.7	0.10	
STA. 643+75 - 644+00, RT.	4.0	0.01		0.01	
SUBTOTAL	1815.9	3.9	9776.8	10.51	1691.0
ROUNDING	4.1	0.1	22.8	0.49	9.0
TOTAL	1820 (2)	4	9800 (2)	11 (2)	1700 (2)

BOUNDS

ITEM NO.	622.2
DESCRIPTION	CONCRETE BOUNDS
UNIT	EA
LOCATION	
N.H. ROUTE 108	
STA. 556+91.4, 32.6', RT	1
STA. 556+91.4, 33.4', LT	1
STA. 562+70.9, 32.5', RT	1
STA. 566+60.5, 33.4', RT	1
STA. 566+60.5, 32.6', LT	1
STA. 568+90.5, 32.5', LT	1
STA. 568+90.5, 33.5', RT	1
STA. 577+72.5, 32.2', RT	1
STA. 582+55.6, 32.6', RT	1
STA. 582+55.6, 33.4', LT	1
STA. 586+47.4, 32.6', RT	1
STA. 586+47.4, 33.4', LT	1
STA. 589+13.1, 33.1', RT	1
STA. 589+13.1, 32.9', LT	1
STA. 592+58.6, 32.1', LT	1
STA. 592+58.6, 33.9', RT	1
STA. 597+28.4, 31.1', RT	1
STA. 597+28.4, 34.9', LT	1
STA. 603+91.1, 32.3', LT	1
STA. 603+91.1, 33.7', RT	1
STA. 608+12.4, 33.7', LT	1
STA. 608+12.4, 32.3', RT	1
STA. 613+12.4, 33.6', LT	1
STA. 613+12.5, 32.4', RT	1
STA. 616+12.0, 34.3', LT	1
STA. 616+12.0, 31.7', RT	1
STA. 620+83.9, 28.8', LT	1
STA. 620+83.9, 24.8', RT	1
STA. 625+04.7, 27.7', LT	1
STA. 625+04.7, 52.0', RT	1
STA. 628+45.5, 28.9', RT	1
STA. 628+45.5, 35.9', LT	1
STA. 630+93.4, 27.4', RT	1
STA. 630+93.4, 42.4', LT	1
STA. 633+71.4, 35.0', RT	1
STA. 634+27.1, 35.0', RT	1
STA. 634+27.1, 31.0', LT	1
STA. 637+45.4, 35.0', RT	1
STA. 637+56.8, 35.0', RT	1
STA. 637+45.4, 39.7', LT	1
SUBTOTAL	40
ROUNDING	0
TOTAL	40

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QUANTITY SUMMARY SHEET
3 OF 4

DGN FILENAME	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_QTY RAP2.dgn	13080A	10B	119

REVISIONS AFTER PROPOSAL

STATION	DESCRIPTION	DATE
618+50	PROFILE REVISION	6/5/2015
644+00	PROFILE REVISION: FROM STA 554+00 TO 577+00 & 617+00 TO 644+00	8/3/2015

STATION	NUMBER
575+50	1
554+00	2

		DATE
EXISTING DETAIL	NHDOT	02/10
NEW DESIGN	P.R.P.	8/15
SHEET CHECKED	J.P.	8/15
AS BUILT DETAILS		DATE

CHA PROJ. NO. 24344

PLOTTED DATED 8/1/2015

FILE NAME • V:\PROJECTS\NH\24344\CADD_MSTN\PRA\CUT SHEETS\13080A_QTY RAP2.DGN

SUMMARY OF QUANTITIES (ESTIMATE)

THIS INFORMATION IS FOR BIDDING PURPOSES ONLY

INVASIVE SPECIES CONTROL

ITEM NO.	201.881	201.882
DESCRIPTION	INVASIVE SPECIES CONTROL TYPE I	INVASIVE SPECIES CONTROL TYPE II
LOCATION	SY	SY
NH ROUTE 108		
STA. 555+57 - 557+23, LT.	365.5	
STA. 556+41 - 558+08, RT.		442.6
STA. 561+42 - 562+23, LT.	181.2	
STA. 568+83 - 576+14, RT. 2	1306.3 2	
STA. 570+29 - 571+02, RT.		92.4
STA. 573+88 - 573+93, LT.	7.7	
STA. 576+89 - 577+52, LT.		86.5
STA. 577+34 - 577+50, RT.		10.6
STA. 579+90 - 580+20, RT.		60.1
STA. 580+67 - 580+93, RT.		25.8
STA. 584+96 - 585+39, LT.	12.6	
STA. 585+93 - 586+05, LT.	1.7	
STA. 586+77 - 587+21, LT.	121.9	
STA. 586+81 - 590+42, RT.	718.8	
STA. 588+72 - 596+25, LT.	1068.2	
STA. 592+45 - 592+78, RT.	30.1	
STA. 597+81 - 598+28, RT.	44.5	
STA. 597+92 - 598+54, LT.	39.3	
STA. 598+85 - 599+14, RT.	17.7	
STA. 598+85 - 599+71, LT.	117.2	
STA. 600+29 - 600+48, LT.	0.7	
STA. 600+93 - 608+55, LT.	1244.9	
STA. 603+05 - 604+07, RT.	71.7	
STA. 604+60 - 605+36, RT.	32.4	
STA. 605+47 - 609+26, RT.	567.4	
STA. 608+56 - 616+97, LT.	809.5	
STA. 610+89 - 611+10, RT.	3.4	
STA. 614+44 - 614+93, RT.		52.9
STA. 614+50 - 614+93, RT.	62.2	
STA. 617+40 - 617+63, RT.	38.0	
STA. 617+43 - 617+46, RT.		0.3
STA. 616+94 - 619+90, LT.		460.3
STA. 620+27 - 621+22, RT.	59.0	
STA. 621+16 - 621+26, LT.		3.7
STA. 621+65 - 621+72, RT.		0.8
STA. 622+47 - 623+38, RT.	305.6	
STA. 622+51 - 623+15, LT.		94.7
STA. 624+34 - 629+05, LT.	1264.0	
STA. 625+04 - 626+48, RT. 2		50.2 2
STA. 626+43 - 626+48, RT.		1.0
STA. 629+06 - 634+24, LT.	849.0	
STA. 629+27 - 631+88, RT. 2	299.3 2	
STA. 632+16 - 633+54, RT.	81.9	
STA. 633+94 - 634+54, RT.		32.0
STA. 636+36 - 637+34, RT.	50.0	
STA. 636+72 - 637+95, LT.	56.4	
STA. 637+57 - 637+91, RT.	13.4	
STA. 638+53 - 638+63, LT.	0.0	8.7
STA. 639+23 - 639+36, LT.	1.0	
STA. 640+79 - 640+89, RT.	8.7	
STA. 640+80 - 640+89, LT.		1.6
STA. 641+12 - 641+41, RT.	3.0	
STA. 641+82 - 642+03, LT.	0.0	37.3
STA. 642+59 - 643+98, LT.	147.6	
SUBTOTAL	9959.8	1435.7
ROUNDING	40.2 2	14.3 2
TOTAL	10000	1450

FORCE ACCOUNT WORK

NHDOT BUREAU OF TRAFFIC
SIGNS AND PAVEMENT MARKINGS

SUBSIDIARY ITEMS

DESCRIPTION	TOTAL
REMOVAL OF TYPE B, C, BB & CC SIGNS	11
TEMPORARY PAVEMENT TRENCH REPAIR	

NOTE :
THIS LIST OF SUBSIDIARY ITEMS SHOULD NOT BE CONSIDERED A COMPLETE LIST OF THE SUBSIDIARY WORK PRESENT IN THIS PROJECT. REFER ALSO TO PLANS, PROPOSAL, SPECIAL PROVISIONS, AND STANDARD SPECIFICATIONS.

SIGNING

ITEM NO.	DESCRIPTION	UNIT	SUBTOTAL	ROUNDING	QUANTITY
615.03	TRAFFIC SIGN TYPE C (F)	SF	68	0	68
615.034	RELOCATING TRAFFIC SIGN, TYPE C	U	17	0	17
615.06	TRAFFIC SIGN TYPE CC (F)	SF	12.66	0	12.66
670.044	RELOCATE HISTORIC MARKER	EA	1	0	1
670.6151	RELOCATE PRIVATE SIGN	U	1	0	1
670.6152	RELOCATE PRIVATE SIGN	U	1	0	1

PERMANENT CONSTRUCTION SIGNS

(INCLUDED IN ITEM NO. 619.1)

SIGN NO.	DESCRIPTION	SIZE (ft)		S.F.	NO. REQ.	TOTAL AREA	PORTABLE MOUNTS	LOCATION
G20-2a	"END ROAD WORK"	2	4	8	5	40		NH ROUTE 108 NB & SB, LONGMARSH RD, STAGECOACH RD, BENNETT RD
R50-1	"WORK ZONE SPEED"	4	6	24	3	72		NH ROUTE 108 NB & SB, BENNETT RD
W20-1a	"ROAD WORK AHEAD"	4	4	16	3	48		LONGMARSH RD, BENNETT RD, STAGECOACH RD
W20-1e	"ROAD WORK 1/2 MILE"	4	4	16	2	32		NH ROUTE 108 NB & SB,
W20-1c	"ROAD WORK 1000 FT"	4	4	16	3	48		NH ROUTE 108 NB & SB, BENNETT RD

The estimated quantities of "Permanent Controls" are hereby listed. The Contractor is responsible for all "Operational Controls" required under section 619 of the NHDOT Specifications and the Manual of Uniform Traffic Control Devices (MUTCD), Part VI.

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QUANTITY SUMMARY SHEET
4 OF 4

DGN FILENAME	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_QTY RAP2.dgn	13080A	11A	119

REVISIONS AFTER PROPOSAL

NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	644+00	554+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00

		DATE
EXISTING DETAIL	NHDOT	02/10
NEW DESIGN	P.R.P.	8/15
SHEET CHECKED	J.P.	8/15
AS BUILT DETAILS		DATE

CHA PROJ. NO. 24344

PLOTTED DATED 8/1/2015

FILE NAME • V:\PROJECTS\KNH\24344\CADD_MSTN\PRA\CUT SHEETS\13080A_QTY RAP2.DGN

SUMMARY OF QUANTITIES (ESTIMATE)

THIS INFORMATION IS FOR BIDDING PURPOSES ONLY

DRAINAGE SUMMARY SHEET

NOTE NUMBER	202.31 FILL ABANDONED PIPE (CY)	202.41 REMOVAL OF EXISTING PIPE 0-24" DIAMETER (LF)	203.1 COMMON EXCAVATION (CY)	203.2 ROCK EXCAVATION (CY)	206.1 COMMON STRUCTURE EXCAVATION (CY)	206.2 ROCK STRUCTURE EXCAVATION (CY)	520.1 CONCRETE CLASS A (CY)	544.1 REINFORCING STEEL (ROADWAY) (LB)	585.3 STONE FILL, CLASS C (CY)	593.411 GEOTEXTILE; PERM. CONTROL, CL.1, NON-WOVEN (SY)	603.0001 VIDEO INSPECTION (LF)	603.00212 R.C. PIPE 2000D 12" (LF)	603.00215 R.C. PIPE 2000D 15" (LF)	603.00218 R.C. PIPE 2000D 18" (LF)	603.00224 R.C. PIPE 2000D 24" (LF)	603.00230 R.C. PIPE 2000D 30" (LF)	603.00236 R.C. PIPE 2000D 36" (LF)	603.00415 R.C. PIPE 3750D 15" (LF)	603.00430 R.C. PIPE 3750D 30" (LF)	603.00436 R.C. PIPE 3750D 36" (LF)	603.30115 R.C. END SECTIONS 15" (EA)	603.30124 R.C. END SECTIONS 24" (EA)	603.36112 ALUMINIZED STEEL END SECTION 12" (EA)	603.36124 ALUMINIZED STEEL END SECTION 24" (EA)	603.82212 P.E. PIPE (TYPE S) 12" (LF)	603.82215 P.E. PIPE (TYPE S) 15" (LF)	603.82218 P.E. PIPE (TYPE S) 18" (LF)	603.82224 P.E. PIPE (TYPE S) 24" (LF)	604.0007 POLYETHYLENE LINER (EA)	NOTE NUMBER
1 OF 6																														
B1						0.2 (2)					35.0												2.0		35.0					B1
B2					6.0	2.4 (2)	4.4	35.3	3.7	15.6	59.9						59.9													B2
B3					25.2	2.6 (2)	4.4	35.3	23.9	84.2	24.0						24.0													B3
B4					11.6	1.3 (2)	1.8	19.8	10.7	42.2	30.2													1.0				30.2		B4
B5						3.9 (2)					143.7		143.7																1.0	B5
B6						0.6					6.0		6.0																1.0	B6
B7						3.3 (2)					156.2												2.0		156.2					B7
B8																														B8
B9																														B9
B10																														B10
B11						0.1 (2)					5.9				5.9						1.0									B11
B12					12.1	4.8 (2)	2.4	24.3	10.9	40.9	51.0				51.0														1.0	B12
B13						1					1														1					B13
B14						0.0					0.0														0.0					B14
B15				1	11.3	3.7	3.4	30.8	8.2	33.1	85.7			85.7 1																B15
B16				1	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0 1																B16
B17					1.4	0.5 (1)			1.5	7.5	9.5												1.0		9.5				1.0	B17
B18					30.4	6.3 (1)	6.4	105.8	27.2	98.5	55.0					0.0 1		55.0 (1)												B18
B19											55.0					0.0 1		55.0 (1)					1		1				1	B19
B20				1	0.0	0.0			0.0	0.0	0.0 1												0.0		0.0				0.0	B20
B21						1.6					45.1												2.0		45.1					B21
B22					29.4	6.5 (1)	8.0	123.5	25.2	91.6	80.7						0.0 1		80.7 (1)											B22
B23											80.7						0.0 1		80.7 (1)	1										B23
B24a						1					0.0 1		0.0 1							0.0										B24a
B24						0.0					0.0 1		0.0 1							1								1	0.0	B24
B25					7.0	1.8 (1)			7.3	28.7	50.9 1		50.9 1							2.0								1	0.0	B25
B26					2.5	0.5 (1)	4.4	35.3			14.8						14.8													B26
B27						1.6 (1)					21.8						0.0 1		21.8 (1)										1.0	B27
B28					2.5	1.3 (1)	4.4	35.3			14.8						14.8												1.0	B28
B29					1.2	1.5 (1)	1.3	15.4			59.8		59.8																1.0	B29
B30a						0.1 1					6.6		6.6 1							1.0										B30a
B30						1.3 1 (2)					45.8		0.0 1					45.8 1											1.0	B30
SHT SUBTOTAL	0.0	0.0	0.0	0.0	140.6	45.9	40.9	460.8	118.6	442.3	1138.1	0.0	267.0	85.7	56.9	0.0	113.5	45.8	110.0	183.2	3.0	1.0	7.0	1.0	245.8	0.0	0.0	30.2	8.0	SHT SUBTOTAL

REVISIONS AFTER PROPOSAL			
STATION	DESCRIPTION	DATE	NUMBER
618+50	PROFILE REVISION	6/5/2015	1
644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00	8/3/2015	2
575+50			
554+00			

EXISTING DETAIL NHDOT	DATE 02/10	
NEW DESIGN P.R.P.	DATE 8/15	
SHEET CHECKED J.P.	DATE 8/15	
AS BUILT DETAILS	DATE	

STATE OF NEW HAMPSHIRE

DEPARTMENT OF TRANSPORTATION ∘ BUREAU OF HIGHWAY DESIGN

DRAINAGE SUMMARY SHEET
1 OF 7

DGN FILENAME	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_QTY RAP2.dgn	13080A	12B	119

CHA PROJ. NO. 24344
PLOTTED DATED 8/1/2015
FILE NAME - V:\PROJECTS\KNH\24344\CADD_MSTN\PRJCUT SHEETS\13080A_QTY RAP2.DGN

SUMMARY OF QUANTITIES (ESTIMATE)

THIS INFORMATION IS FOR BIDDING PURPOSES ONLY

DRAINAGE SUMMARY SHEET

3 OF 6

NOTE NUMBER	202.31 FILL ABANDONED PIPE (CY)	202.41 REMOVAL OF EXISTING PIPE 0-24" DIAMETER (LF)	203.1 COMMON EXCAVATION (CY)	203.2 ROCK EXCAVATION (CY)	206.1 COMMON STRUCTURE EXCAVATION (CY)	206.2 ROCK STRUCTURE EXCAVATION (CY)	520.1 CONCRETE CLASS A (CY)	544.1 REINFORCING STEEL (ROADWAY) (LB)	585.3 STONE FILL, CLASS C (CY)	593.411 GEOTEXTILE; PERM. CONTROL, CL.1, NON-WOVEN (SY)	603.0001 VIDEO INSPECTION (LF)	603.00212 R.C. PIPE 2000D 12" (LF)	603.00215 R.C. PIPE 2000D 15" (LF)	603.00218 R.C. PIPE 2000D 18" (LF)	603.00224 R.C. PIPE 2000D 24" (LF)	603.00230 R.C. PIPE 2000D 30" (LF)	603.00236 R.C. PIPE 2000D 36" (LF)	603.00415 (1) R.C. PIPE 3750D 15" (LF)	603.00430 (1) R.C. PIPE 3750D 30" (LF)	603.00436 (1) R.C. PIPE 3750D 36" (LF)	603.30115 R.C. END SECTIONS 15" (EA)	603.30124 R.C. END SECTIONS 24" (EA)	603.36112 ALUMINIZED STEEL END SECTION 12" (EA)	603.36124 ALUMINIZED STEEL END SECTION 24" (EA)	603.82212 P.E. PIPE (TYPE S) 12" (LF)	603.82215 P.E. PIPE (TYPE S) 15" (LF)	603.82218 P.E. PIPE (TYPE S) 18" (LF)	603.82224 P.E. PIPE (TYPE S) 24" (LF)	604.0007 POLYETHYLENE LINER (EA)	NOTE NUMBER
B31						0.0 (1)					0.0 (1)		0.0 (1)																0.0 (1)	B31
B31a						0.8 (1)					36.2 (1)		0.0 (1)					36.2 (1)			1.0									B31a
B32					3.0	0.2 (1)	3.3	28.7	0.9	7.2	7.5					7.5														B32
B33						1.2 (1)					20.5					0.0 (1)			20.5 (1)										1.0	B33
B34					17.9	1.4 (1)	3.3	28.7	16.6	59.9	10.1					10.1													1.0	B34
B35						0.6					5.0			5.0																B35
B36						1.0 (1)					23.3			23.3															1.0	B36
B37					7.2	1.0 (1)	1.7	15.4	5.7	23.1	12.8			12.8															1.0	B37
B38					25.5	7.4 (2)	6.6	57.3	22.5	82.6	115.4					115.4														B38
B39						1.3 (2)					35.3		35.3																	B39
B40						0.7					26.0		26.0																1.0	B40
B41					12.1	1.4 (2)	2.4	24.3	10.9	40.9	12.3				12.3														1.0	B41
B42						1.4 (2)					35.3		35.3																1.0	B42
B43						1.3 (2)					61.4	61.4																		B43
B44						36.1 (2)					131.5														131.5					B44
B45						0.8 (2)					32.0		32.0																	B45
B46						0.7 (2)					56.0			56.0															1.0	B46
B47					6.5	0.4 (2)	1.1	13.2	5.7	23.0	25.0																25.0			B47
B48						0.2 (2)					29.7										1.0							29.7	1.0	B48
B49						0.6 (2)					29.5		29.5																	B49
B50						1.0 (2)					89.0		89.0																1.0	B50
B51						3.7 (2)					138.2		138.2																	B51
B52						2.5 (2)					94.1				94.1															B52
BR1		55.5	3.3																											BR1
BR2		20.6	2.6																											BR2
BR3		50.1	1.3																											BR3
BR4	6.1 (1)	0.0 (1)		4.8																										BR4
BR5	0.8 (1)	0.0 (1)																												BR5
BR6	3.5 (1)	0.0 (1)	3.3																											BR6
BR7	1.4 (1)	0.0 (1)	1.6																											BR7
BR8		29.7																												BR8
BR8A	4.8																													BR8A
BR9	(1)	46.3 (1)	1.7			(2)					(1)		(1)			(1)		(1)	(1)	(1)									(1)	BR9
SHT SUBTOTAL	16.6	202.2	13.8	4.8	72.2	65.7	18.5	167.6	62.3	236.6	1026.1	61.4	385.3	97.0	106.3	133.0	0.0	36.2	20.5	0.0	2.0	0.0	0.0	0.0	0.0	131.5	25.0	29.7	10.0	SHT SUBTOTAL

NUMBER	DATE	STATION	DESCRIPTION
1	6/5/2015	575+50	PROFILE REVISION
2	8/3/2015	554+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00

REVISIONS AFTER PROPOSAL

		STATION
		618+50
		644+00

		DATE
EXISTING DETAIL	NHDOT	02/10
NEW DESIGN	P.R.P.	8/15
SHEET CHECKED	J.P.	8/15
AS BUILT DETAILS		

CHA PROJ. NO. 24344

PLOTTED DATED 8/1/2015

FILE NAME = V:\PROJECTS\KNH\24344\CADD_MSTN\PRJ\CUT SHEETS\13080A_QTY RAP2.DGN

STATE OF NEW HAMPSHIRE

DEPARTMENT OF TRANSPORTATION ∘ BUREAU OF HIGHWAY DESIGN

DRAINAGE SUMMARY SHEET
3 OF 7

DGN FILENAME	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_QTY RAP2.dgn	13080A	14B	119

SUMMARY OF QUANTITIES (ESTIMATE)

THIS INFORMATION IS FOR BIDDING PURPOSES ONLY

DRAINAGE SUMMARY SHEET

	202.31	202.41	203.1	203.2	206.1	206.2	520.1	544.1	585.3	593.411	603.0001	603.00212	603.00215	603.00218	603.00224	603.00230	603.00236	603.00415	603.00430	603.00436	603.30115	603.30124	603.36112	603.36124	603.82212	603.82215	603.82218	603.82224	604.0007	
	FILL ABANDONED PIPE	REMOVAL OF EXISTING PIPE 0-24" DIAMETER	COMMON EXCAVATION	ROCK EXCAVATION	COMMON STRUCTURE EXCAVATION	ROCK STRUCTURE EXCAVATION	CONCRETE CLASS A	REINFORCING STEEL (ROADWAY)	STONE FILL, CLASS C	GEOTEXTILE; PERM. CONTROL, CL.1, NON-WOVEN	VIDEO INSPECTION	R.C. PIPE									R.C. END SECTIONS		ALUMINIZED STEEL END SECTION		P.E. PIPE (TYPE S)				POLYETHYLENE LINER	
												2000D	2000D	2000D	2000D	2000D	2000D	3750D	3750D	3750D										
												12"	15"	18"	24"	30"	36"	15"	30"	36"	15"	24"	12"	24"	12"	15"	18"	24"		
	CY	LF	CY	CY	CY	CY	CY	LB	CY	SY	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	LF	LF	LF	LF	EA	
SHT 1 SUBTOTAL	0.0	0.0	0.0	0.0	140.6	45.9	40.9	460.8	118.6	442.3	1138.1	0.0	267.0	85.7	56.9	0.0	113.5	45.8	110.0	183.2	3.0	1.0	7.0	1.0	245.8	0.0	0.0	30.2	8.0	SHT 1 SUBTOTAL
SHT 3 SUBTOTAL	16.6	202.2	13.8	4.8	72.2	65.7	18.5	167.6	62.3	236.6	1026.1	61.4	385.3	97.0	106.3	133.0	0.0	36.2	20.5	0.0	2.0	0.0	0.0	0.0	0.0	131.5	25.0	29.7	10.0	SHT 3 SUBTOTAL
SHT 5 SUBTOTAL	0.0	33.0	0.0	0.0	0.7	380.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	SHT 5 SUBTOTAL
SUBTOTAL	16.6	235.2	13.8	4.8	213.5	491.9	59.7	628.4	180.9	678.9	2164.2	61.4	652.3	182.7	163.2	133.0	113.5	82.0	130.5	183.2	5.0	1.0	7.0	1.0	245.8	131.5	25.0	59.9	18.0	SUBTOTAL
ROUNDING	3.4	4.8	0.0	0.0	1.5	0.0	0.3	1.6	0.0	1.1	0.8	3.6	2.7	2.3	1.8	2.0	1.5	3.0	4.5	1.8	0.0	0.0	0.0	0.0	4.2	3.5	5.0	0.1	0.0	ROUNDING
TOTAL	20.0	240.0	13.8**	4.8**	215.0	491.9**	60.0	630.0	180.9*	680.0	2165.0	65.0	660.0	185.0	165.0	135.0	115.0	85.0	135.0	185.0	5.0	1.0	7.0	1.0	250.0	135.0	30.0	60.0	18.0	TOTAL

* NOT AN ITEM TOTAL SEE ENVIRONMENTAL PROTECTION & EROSION CONTROL SUMMARY

**SEE EARTHWORK SUMMARY

DRAINAGE SUMMARY SHEET

	604.12		604.128		604.15		604.22		604.225		604.25		604.328		605.506	605.79	622.1	
	CATCH BASINS						DROP INLET TYPE B				DROP INLET TYPE E		DRAINAGE MANHOLES, 8-FOOT DIAMETER		6" PERF. CORR. POLYETHYL PIPE UND.	UNDERDRAIN FLUSHING BASINS	STEEL WITNESS MARKERS	
	TYPE B				TYPE E													
	4' DIA		8' DIA		4' DIA		4' DIA		5' DIA		4' DIA		8' DIA					
	ACT	EST	ACT	EST	ACT	EST	ACT	EST	ACT	EST	ACT	EST	ACT	EST	6"			
	U	U	U	U	U	U	U	U	U	U	U	U	U	U	LF	EA	EA	
SHT 2 SUBTOTAL	2.0	2.1	0.0	0.0	0.0	0.0	4.0	4.1	2.0	2.0	0.0	0.0	1.0	1.0	0.0	0.0	19.0	SHT 2 SUBTOTAL
SHT 4 SUBTOTAL	9.0	9.3	1.0	1.0	4.0	4.0	3.0	3.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0	SHT 4 SUBTOTAL
SHT 6 SUBTOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2717.5	12.0	1.0	SHT 6 SUBTOTAL
SUBTOTAL	11.0	11.4	1.0	1.0	4.0	4.0	7.0	7.1	4.0	4.0	0.0	0.0	1.0	1.0	2717.5	12.0	36.0	SUBTOTAL
ROUNDING		0.6		0.0		0.0		0.9		0.0		0.0		0.0	82.5	0.0	0.0	ROUNDING
TOTAL		12.0		1.0		4.0		8.0		4.0		0.0		1.0	2800.0	12.0	36.0	TOTAL

STATE OF NEW HAMPSHIRE			
DEPARTMENT OF TRANSPORTATION ∘ BUREAU OF HIGHWAY DESIGN			
DRAINAGE SUMMARY SHEET 7 OF 7			
DGN FILENAME	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_QTY RAP2.dgn	13080A	18B	119

REVISIONS AFTER PROPOSAL

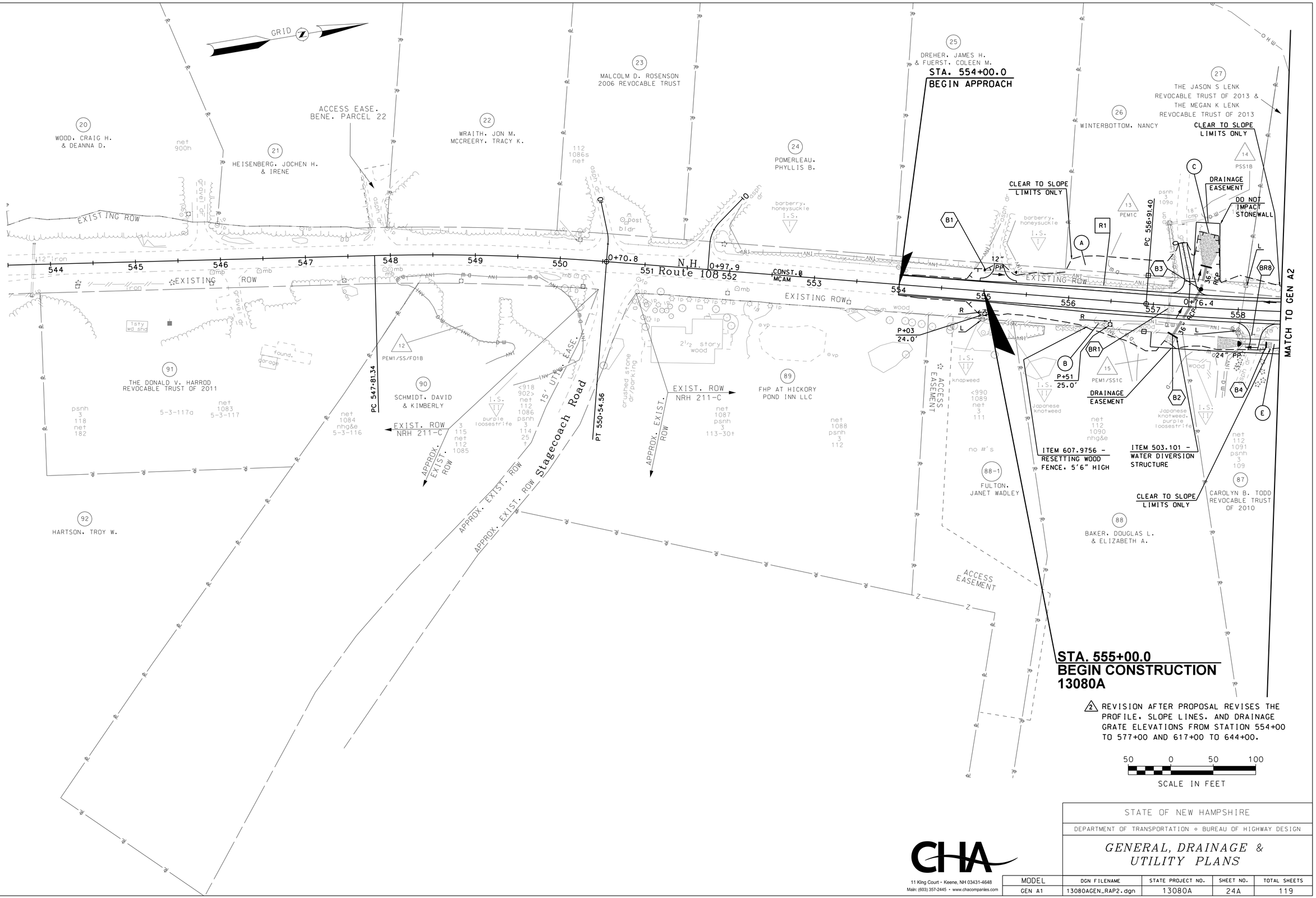
STATION	DESCRIPTION	NUMBER	DATE
618+50	PROFILE REVISION	1	6/5/2015
644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00	2	8/3/2015
575+50			
554+00			

		DATE
EXISTING DETAIL	NHDOT	02/10
NEW DESIGN	P.R.P.	8/15
SHEET CHECKED	J.P.	8/15
AS BUILT DETAILS		DATE

CHA PROJ. NO. 24344

PLOTTED DATED 8/1/2015

FILE NAME • V:\PROJECTS\KNH\24344\CADD_MSTN\PRJ\CUT SHEETS\13080A_QTY RAP2.DGN



2 REVISION AFTER PROPOSAL REVISES THE PROFILE, SLOPE LINES, AND DRAINAGE GRATE ELEVATIONS FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

CHA
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STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION ∘ BUREAU OF HIGHWAY DESIGN

GENERAL, DRAINAGE & UTILITY PLANS

MODEL	DGN FILENAME	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
GEN A1	13080AGEN_RAP2.dgn	13080A	24A	119

REVISIONS AFTER PROPOSAL

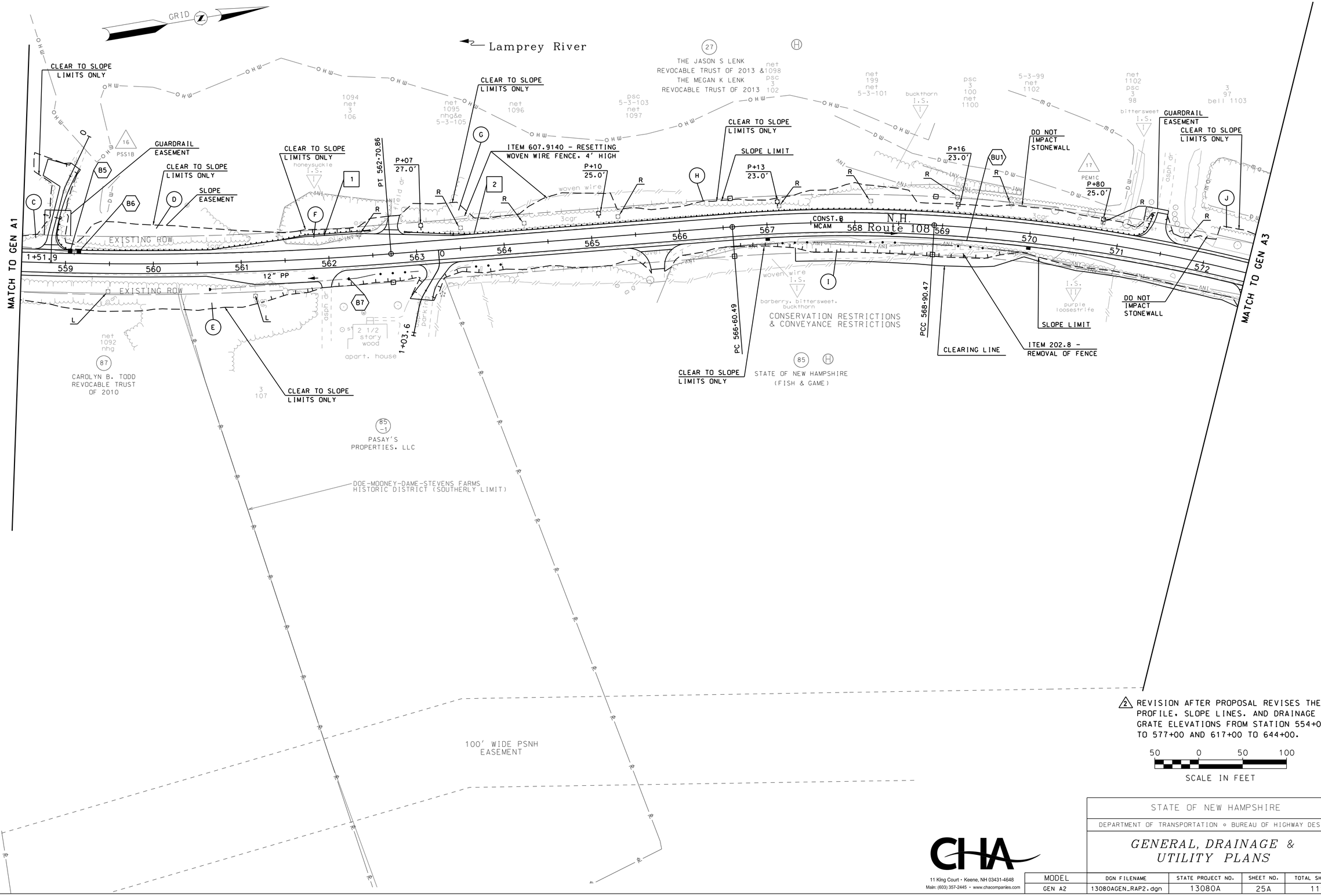
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	644+00	554+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00

		DATE
EXISTING DETAIL	NHDOT	02/10
NEW DESIGN	P.R.P.	8/15
SHEET CHECKED	J.P.	8/15
AS BUILT DETAILS		DATE

CHA PROJ. NO. 24344

PLOTTED DATED 8/1/2015

FILE NAME • V:\PROJECTS\KNH\24344\CADD_MSTN\PRJ\CUT SHEETS\13080AGEN_RAP2.DGN



2 REVISION AFTER PROPOSAL REVISES THE PROFILE, SLOPE LINES, AND DRAINAGE GRATE ELEVATIONS FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

50 0 50 100

SCALE IN FEET

REVISIONS AFTER PROPOSAL			
STATION		DESCRIPTION	
554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00	

NUMBER	DATE
2	8/3/2015

EXISTING DETAIL NHDOT	DATE	02/10
NEW DESIGN P.R.P.	DATE	8/15
SHEET CHECKED J.P.	DATE	8/15
AS BUILT DETAILS	DATE	

STATE OF NEW HAMPSHIRE

DEPARTMENT OF TRANSPORTATION ∘ BUREAU OF HIGHWAY DESIGN

GENERAL, DRAINAGE & UTILITY PLANS

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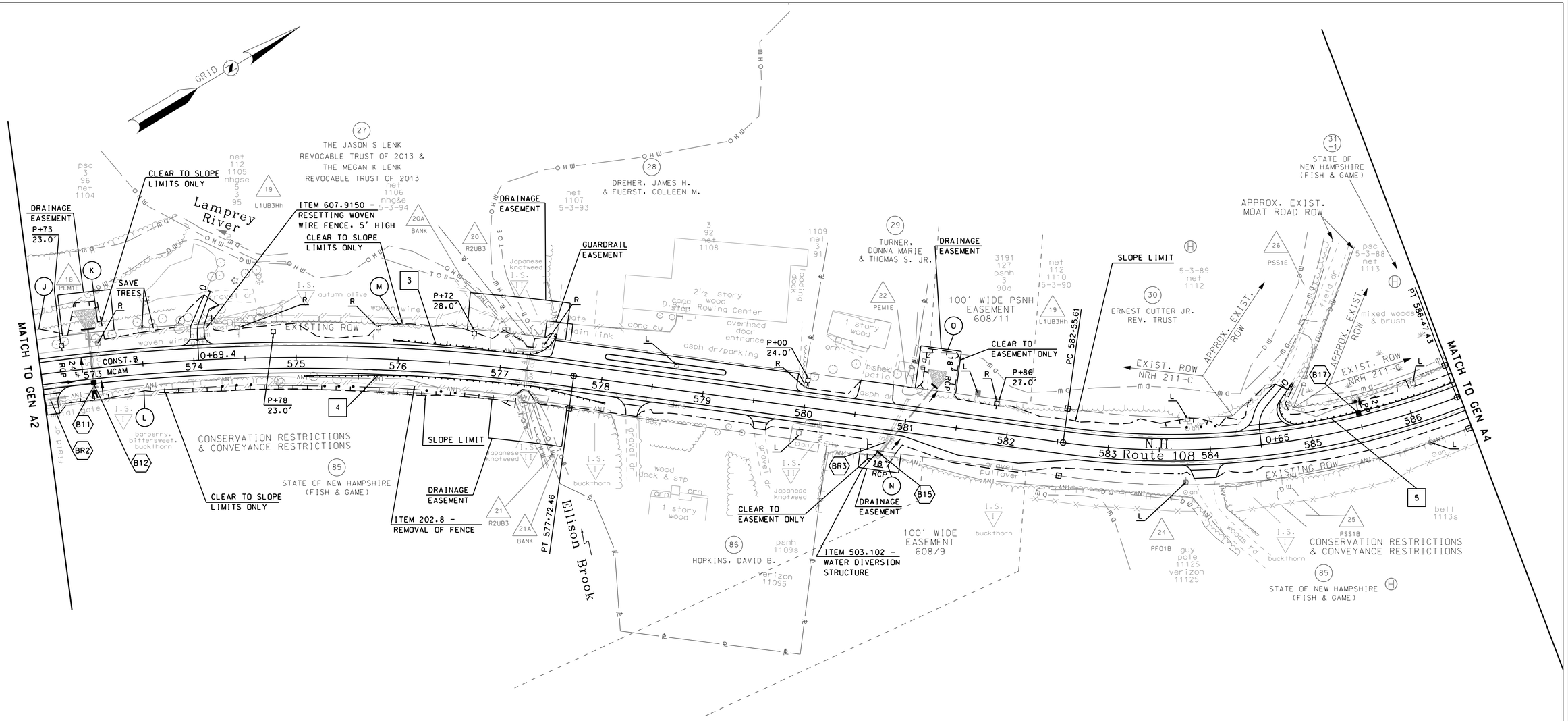
MODEL	DGN FILENAME	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
GEN A2	13080AGEN_RAP2.dgn	13080A	25A	119

CHA PROJ. NO. 24344

PLOTTED DATED 8/1/2015

FILE NAME - V:\PROJECTS\NNH\24344\CADD_MSTN\PRJ\CUT SHEETS\13080AGEN_RAP2.DGN



1 REVISION AFTER PROPOSAL REVISES SLOPE LINES AND DRAINAGE FROM STATION 575+50 TO 618+50.

2 REVISION AFTER PROPOSAL REVISES THE PROFILE, SLOPE LINES, AND DRAINAGE GRATE ELEVATIONS FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

50 0 50 100
SCALE IN FEET

STATION	STATION	DESCRIPTION	NUMBER	DATE
575+50	618+50	PROFILE REVISION	1	6/5/2015
554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00	2	8/3/2015

REVISIONS AFTER PROPOSAL

		DATE
EXISTING DETAIL	NHDOT	02/10
NEW DESIGN	P.R.P.	8/15
SHEET CHECKED	J.P.	8/15
AS BUILT DETAILS		DATE

CHA PROJ. NO. 24344

PLOTTED DATED 8/1/2015

FILE NAME = V:\PROJECTS\KNH\24344\CADD_MSTN\PRJ\CUT SHEETS\13080AGEN_RAP2.DGN

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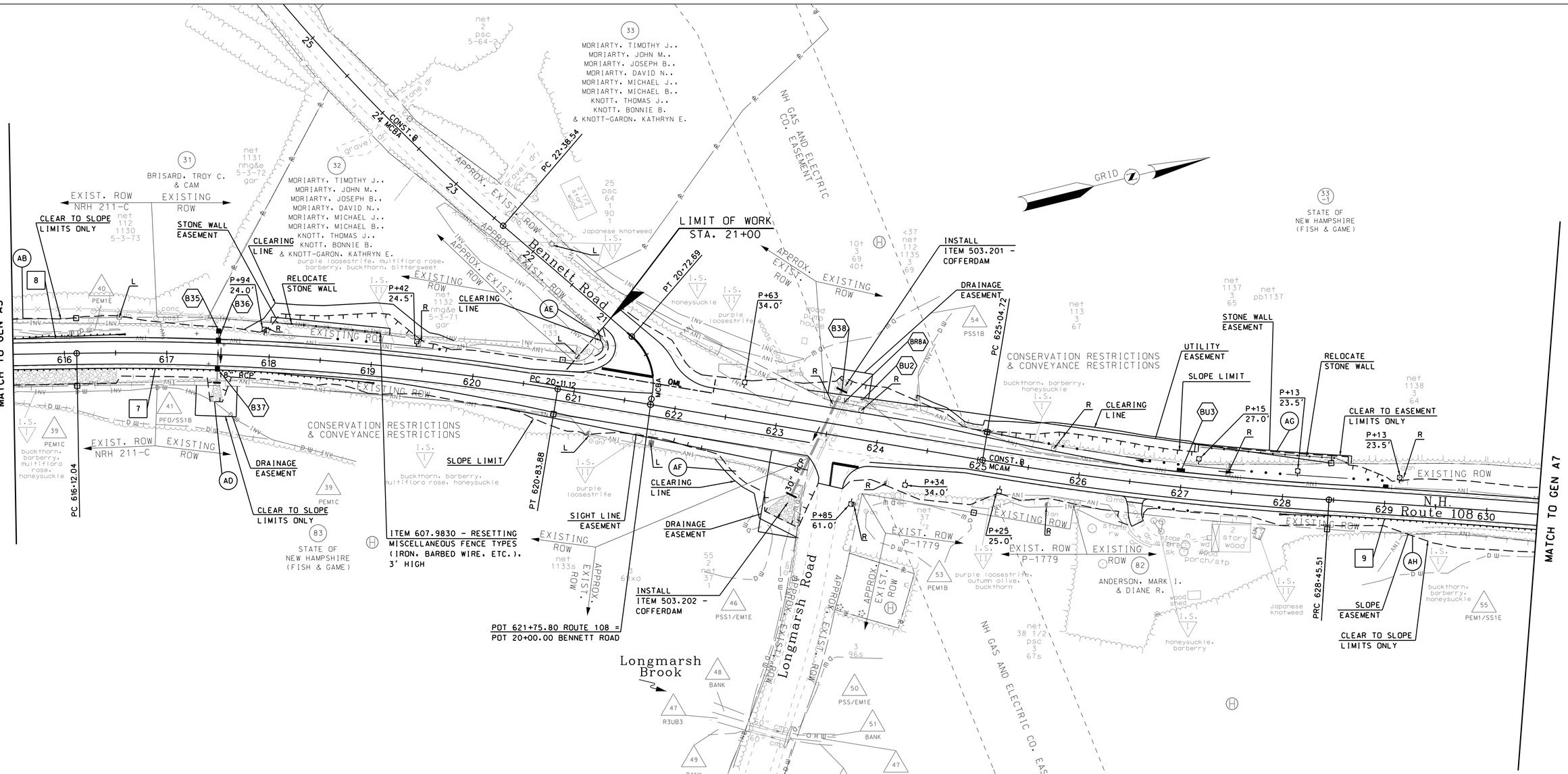
STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION ◦ BUREAU OF HIGHWAY DESIGN

GENERAL, DRAINAGE & UTILITY PLANS

MODEL	DGN FILENAME	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
GEN A3	13080AGEN_RAP2.dgn	13080A	26B	119



1 REVISION AFTER PROPOSAL REVISES SLOPE LINES AND DRAINAGE FROM STATION 575+50 TO 618+50.

2 REVISION AFTER PROPOSAL REVISES THE PROFILE, SLOPE LINES, AND DRAINAGE GRATE ELEVATIONS FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

50 0 50 100

SCALE IN FEET

STATE OF NEW HAMPSHIRE

DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN

GENERAL, DRAINAGE & UTILITY PLANS

MODEL	DGN FILENAME	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
GEN A6	13080AGEN_RAP2.dgn	13080A	29B	119

NUMBER	DATE	DESCRIPTION
1	6/5/2015	PROFILE REVISION
2	8/3/2015	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00

REVISIONS AFTER PROPOSAL

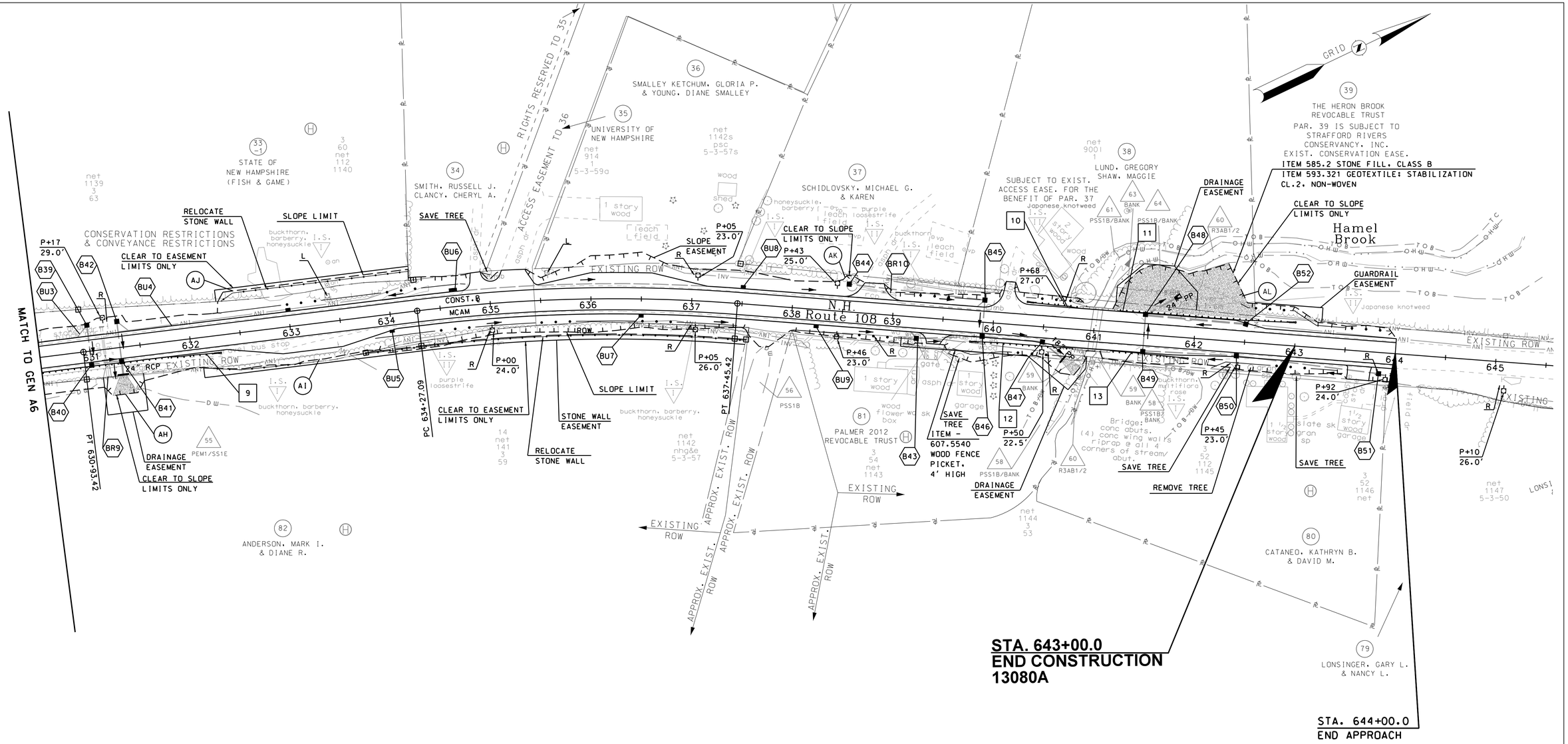
STATION	STATION
575+50	618+50
554+00	644+00

		DATE
EXISTING DETAIL	NHDOT	02/10
NEW DESIGN	P.R.P.	8/15
SHEET CHECKED	J.P.	8/15
AS BUILT DETAILS		

CHA PROJ. NO. 24344

PLOTTED DATED 8/1/2015

FILE NAME = V:\PROJECTS\KNH\24344\CADD_MSTN\PRJ\CUT SHEETS\13080AGEN_RAP2.DGN



2 REVISION AFTER PROPOSAL REVISES THE PROFILE, SLOPE LINES, AND DRAINAGE GRATE ELEVATIONS FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

50 0 50 100
SCALE IN FEET

REVISIONS AFTER PROPOSAL			
STATION	DESCRIPTION	NUMBER	DATE
644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00	2	8/3/2015
554+00			

EXISTING DETAIL NHDOT	DATE 02/10	
NEW DESIGN P.R.P.	DATE 8/15	
SHEET CHECKED J.P.	DATE 8/15	
AS BUILT DETAILS	DATE	

CHA PROJ. NO. 24344

PLOTTED DATED 8/1/2015

FILE NAME • V:\PROJECTS\KNH\24344\CADD_MSTN\PRJ\CUT SHEETS\13080AGEN_RAP2.DGN

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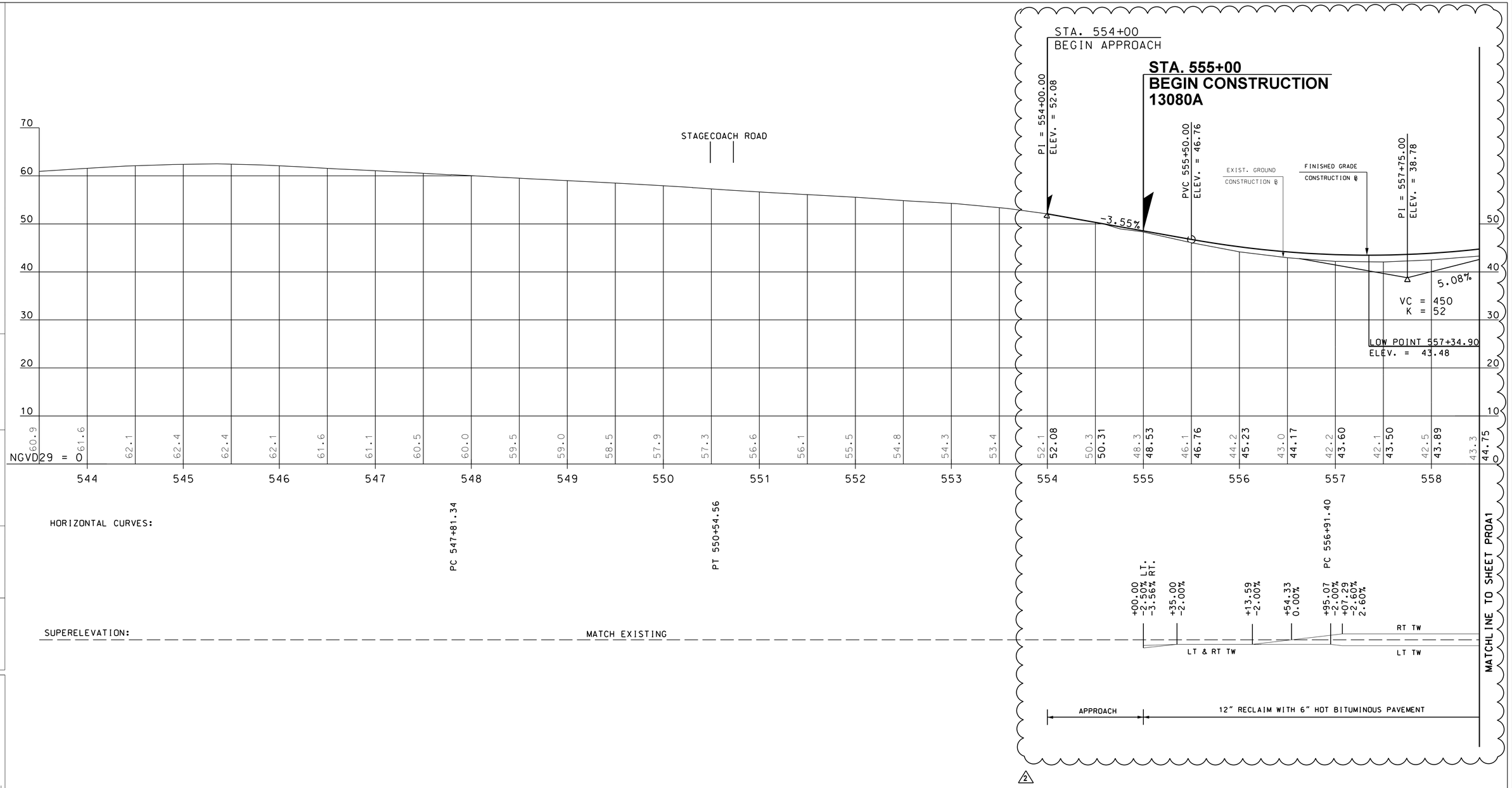
GENERAL, DRAINAGE & UTILITY PLANS

MODEL	DGN FILENAME	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
GEN A7	13080AGEN_RAP2.dgn	13080A	30A	119



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SCALE IN FEET

REVISIONS AFTER PROPOSAL

STATION	DESCRIPTION
554+00 644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00

NUMBER	DATE
2	8/3/2015

		DATE
EXISTING DETAIL	NHDOT	02/10
NEW DESIGN	P.R.P.	8/15
SHEET CHECKED	J.P.	8/15
AS BUILT DETAILS		DATE

CHA PROJ. NO. 24344

PLOTTED DATED 8/1/2015

FILE NAME - V:\PROJECTS\KNH\24344\CADD_MSTN\PRJ\CUT SHEETS\PROFILES\13080A_PRO_RAP2.DGN

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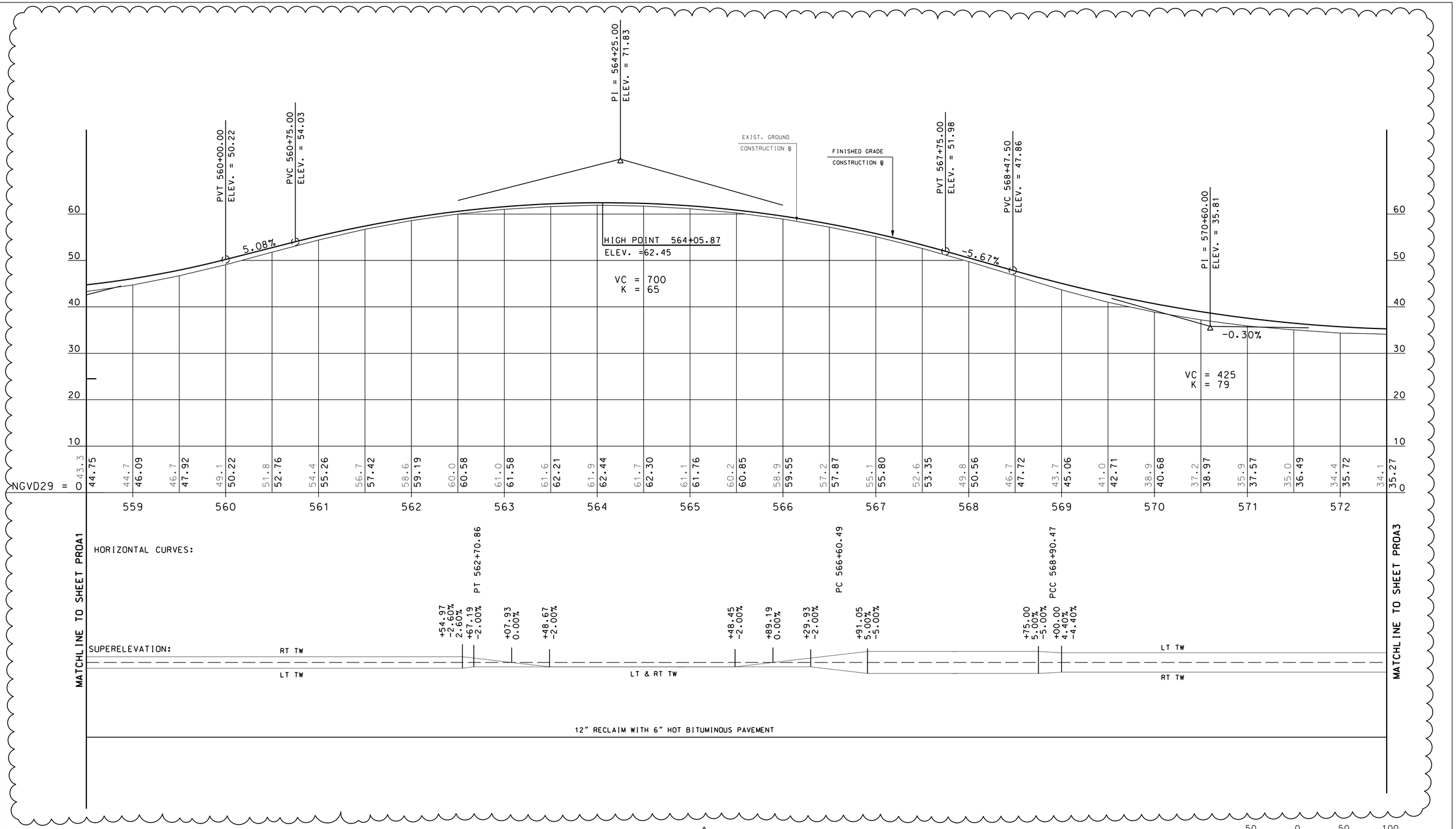
ROUTE 108 PROFILE
SHEET A1

MODEL	DGN FILENAME	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
PROA1	13080A_PRO_RAP2.dgn	13080A	31A	119



REVISIONS AFTER PROPOSAL			
STATION	STATION	DESCRIPTION	
554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00	

NUMBER	DATE
2	8/3/2015

EXISTING DETAIL NHDOT	DATE	02/10
NEW DESIGN P.R.P.	DATE	8/15
SHEET CHECKED J.P.	DATE	8/15
AS BUILT DETAILS	DATE	

CHA PROJ. NO. 24344

PLOTTED DATED 8/1/2015

FILE NAME - V:\PROJECTS\KNH\24344\CADD_MSTN\PRJCUT SHEETS\PROFILES\13080A_PRO_RAP2.DGN

STATE OF NEW HAMPSHIRE

DEPARTMENT OF TRANSPORTATION ∘ BUREAU OF HIGHWAY DESIGN

ROUTE 108 PROFILE
SHEET A2

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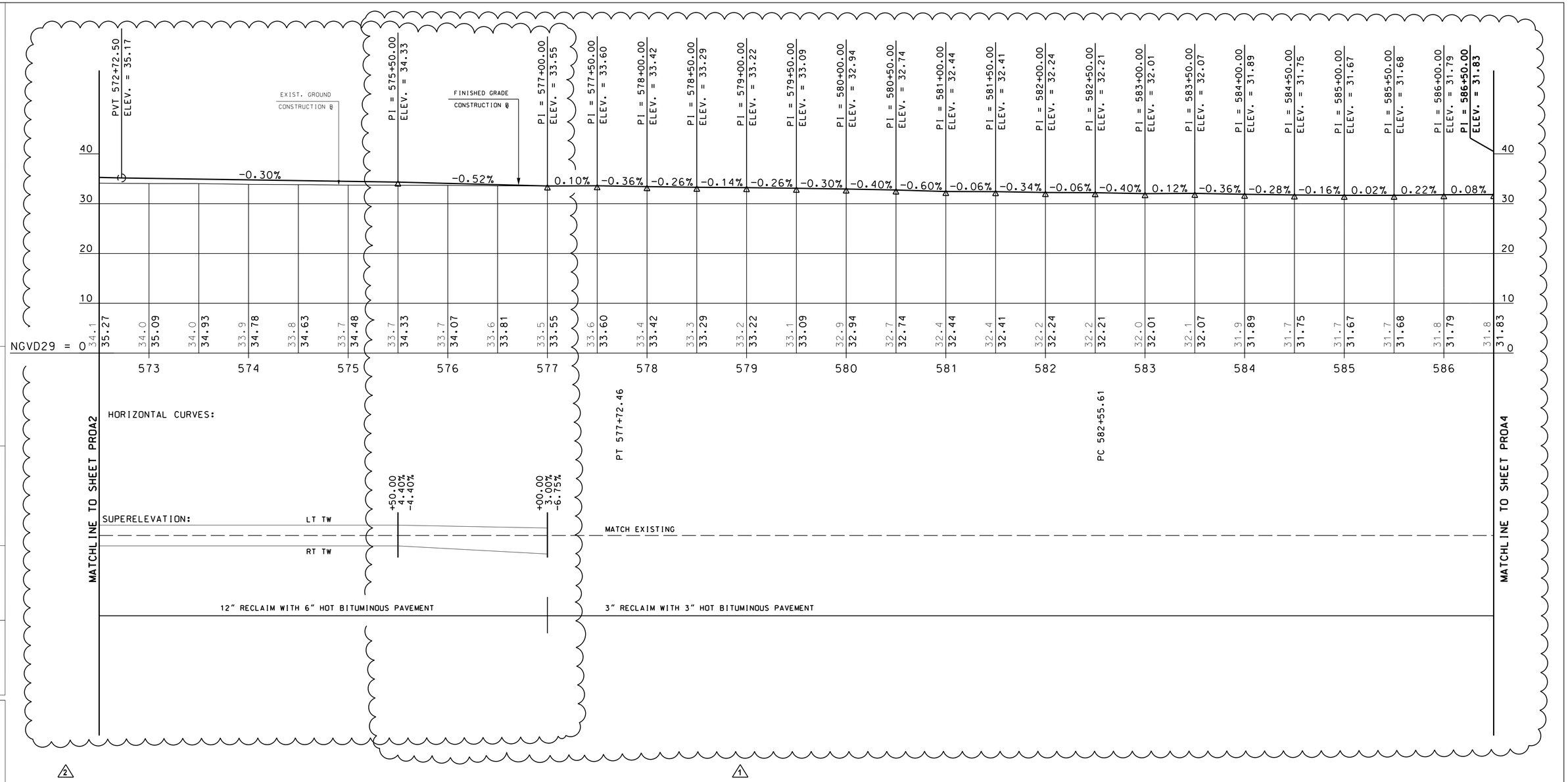
MODEL	DGN FILENAME	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
PROA2	13080A_PRO_RAP2.dgn	13080A	32A	119



NUMBER	DATE	STATION	DESCRIPTION
1	6/5/2015	618+50	PROFILE REVISION
2	8/3/2015	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00

REVISIONS AFTER PROPOSAL

STATION	STATION
575+50	554+00

EXISTING DETAIL	NHDOT	DATE 02/10
NEW DESIGN	P.R.P.	DATE 8/15
SHEET CHECKED	J.P.	DATE 8/15
AS BUILT DETAILS		DATE

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SCALE IN FEET

STATE OF NEW HAMPSHIRE

DEPARTMENT OF TRANSPORTATION ∘ BUREAU OF HIGHWAY DESIGN

ROUTE 108 PROFILE
SHEET A3

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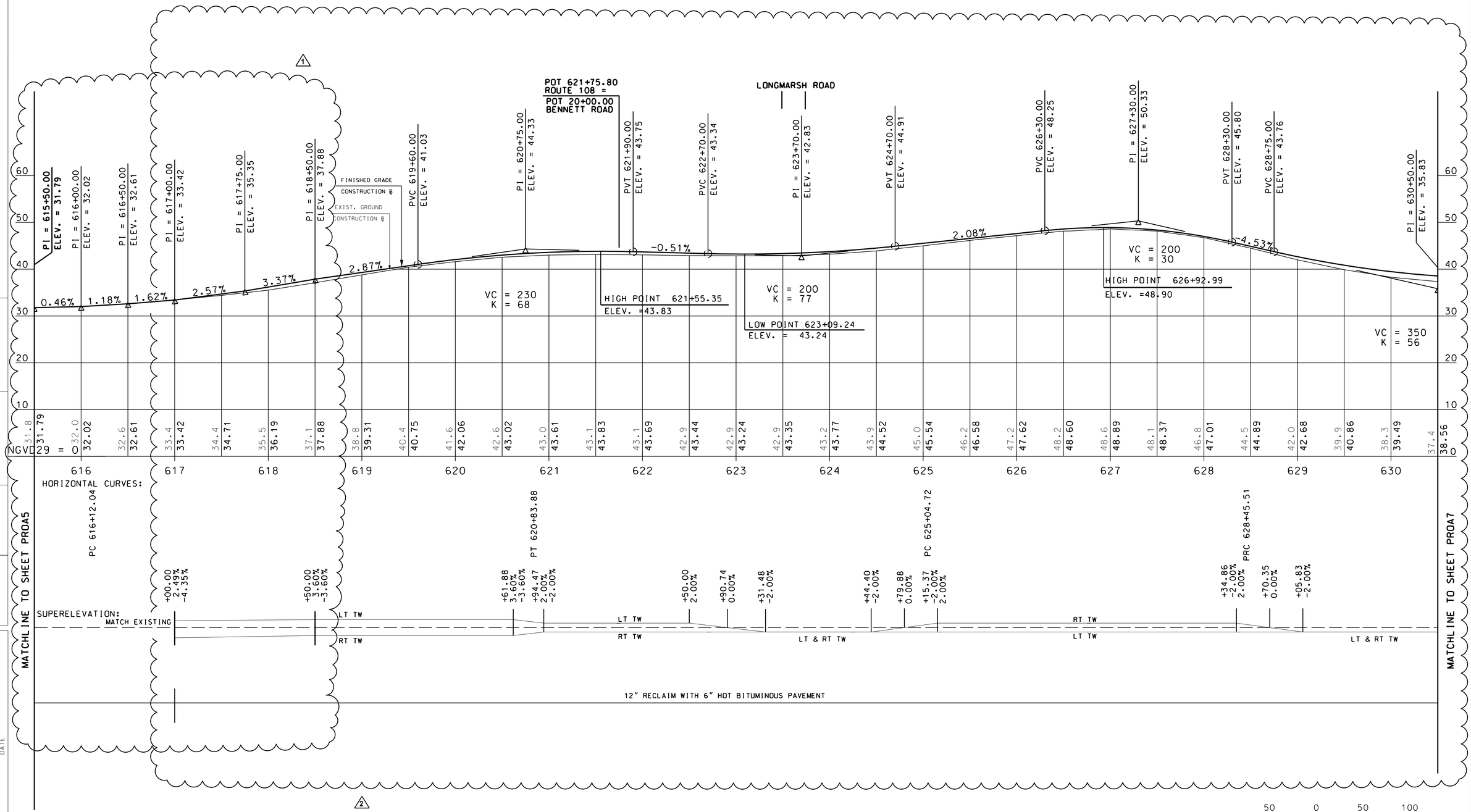
MODEL	DGN FILENAME	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
PROA3	13080A_PRO_RAP2.dgn	13080A	33B	119

FILE NAME • V:\PROJECTS\KHN\24344\CADD_MSTN\PRJ\CUT SHEETS\PROFILES\13080A_PRO_RAP2.DGN PLOTTED DATED 8/1/2015

CHA PROJ. NO. 24344



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SCALE IN FEET

REVISIONS AFTER PROPOSAL

STATION	DESCRIPTION
618+50	PROFILE REVISION
644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00

NUMBER	DATE
1	6/5/2015
2	8/3/2015

STATION	
575+50	
554+00	

		DATE
EXISTING DETAIL	NHDOT	02/10
NEW DESIGN	P.R.P.	8/15
SHEET CHECKED	J.P.	8/15
AS BUILT DETAILS		DATE

CHA PROJ. NO. 24344

PLOTTED DATED 8/1/2015

FILE NAME - V:\PROJECTS\KNH\24344\CADD_MSTN\PRJ\CUT SHEETS\PROFILES\13080A_PRO_RAP2.DGN

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STATE OF NEW HAMPSHIRE
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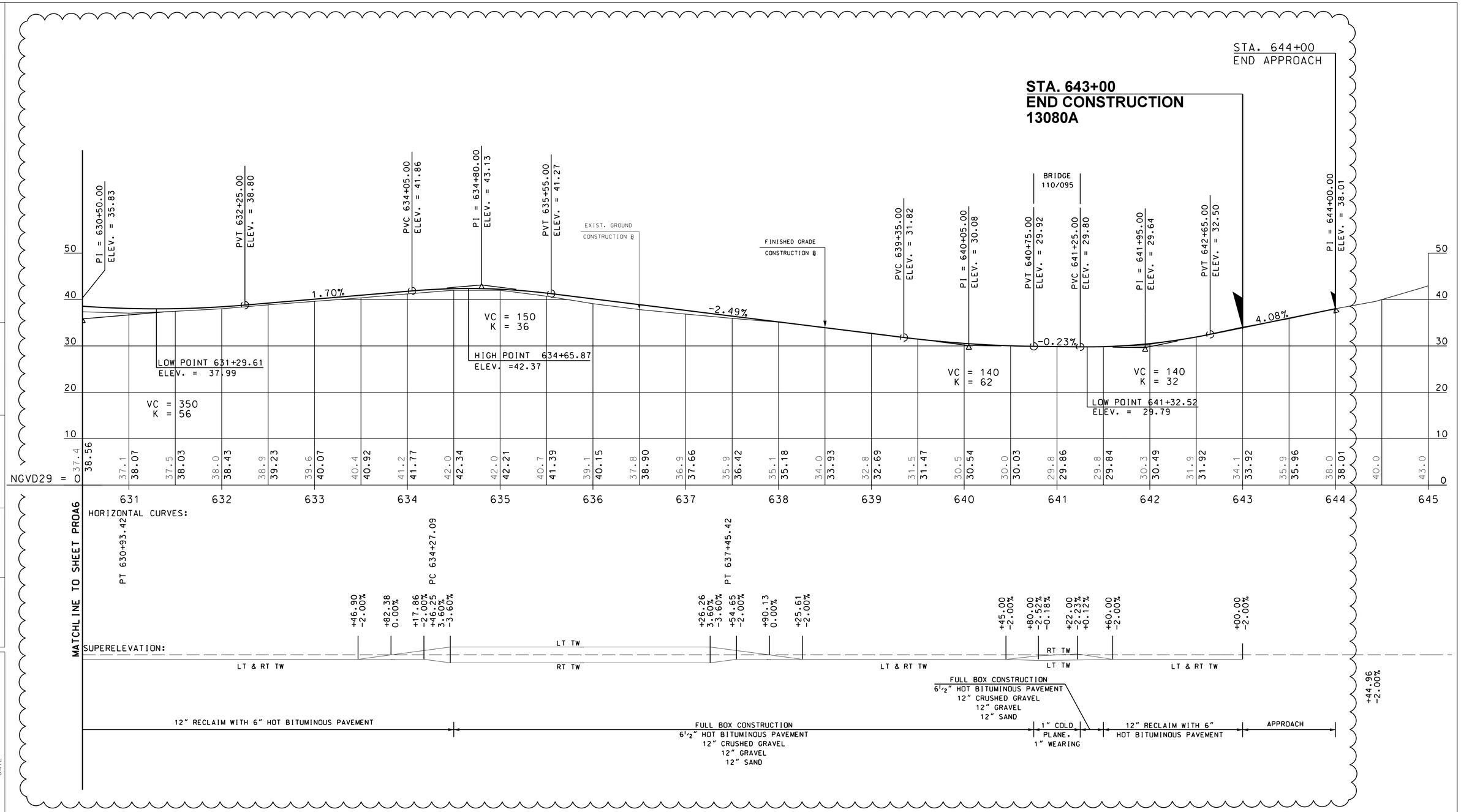
ROUTE 108 PROFILE
SHEET A6

MODEL	DGN FILENAME	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
PROA6	13080A_PRO_RAP2.dgn	13080A	36B	119



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SCALE IN FEET

REVISIONS AFTER PROPOSAL

STATION	DESCRIPTION
644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00

STATION	NUMBER	DATE
554+00	2	8/3/2015

		DATE
EXISTING DETAIL	NHDOT	02/10
NEW DESIGN	P.R.P.	8/15
SHEET CHECKED	J.P.	8/15
AS BUILT DETAILS		DATE

CHA PROJ. NO. 24344

PLOTTED DATED 8/1/2015

FILE NAME = V:\PROJECTS\KNH\24344\CADD_MSTN\PRJ\CUT SHEETS\PROFILES\13080A_PRO_RAP2.DGN

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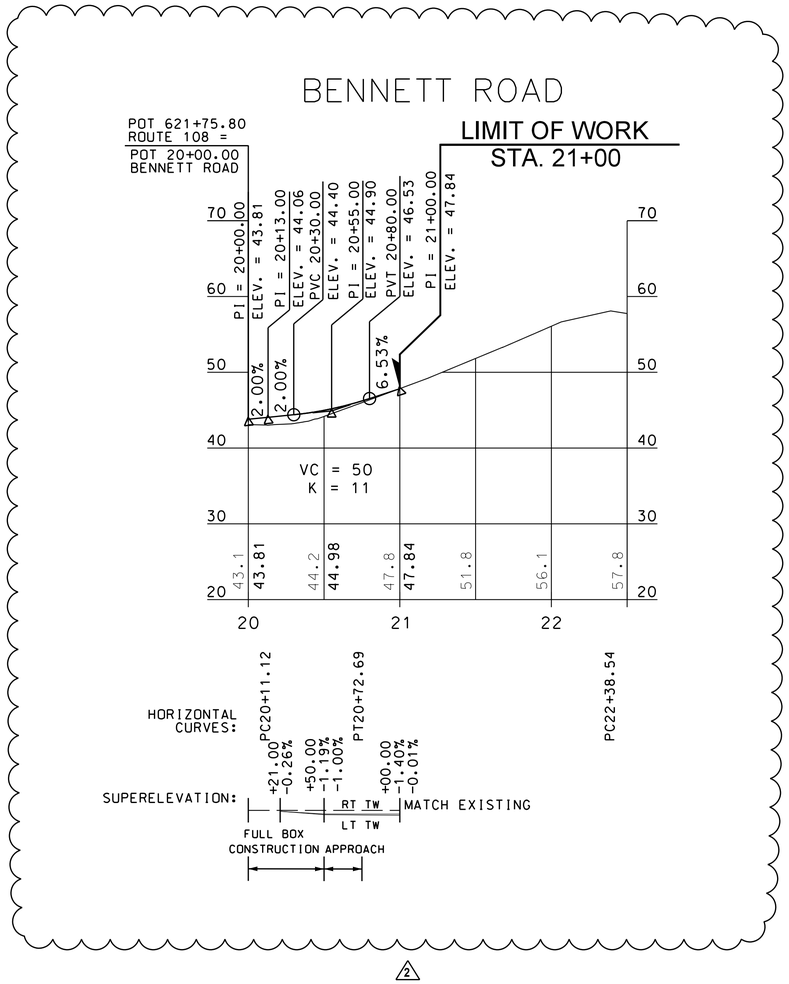
ROUTE 108 PROFILE
SHEET A7

MODEL	DGN FILENAME	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
PROA7	13080A_PRO_RAP2.dgn	13080A	37A	119



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SCALE IN FEET

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SIDE ROAD PROFILES

MODEL	DGN FILENAME	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
SIDE ROAD PRO 1	13080A_PRO_RAP2.dgn	13080A	38A	119

EXISTING DETAIL NHDOT	DATE	02/10
NEW DESIGN P.R.P.	DATE	8/15
SHEET CHECKED J.P.	DATE	8/15
AS BUILT DETAILS	DATE	

REVISIONS AFTER PROPOSAL

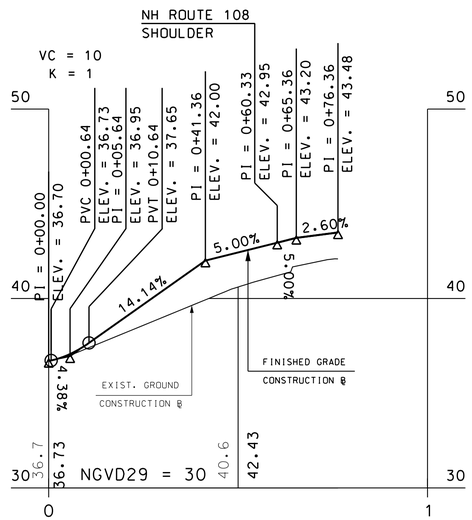
STATION	STATION	DESCRIPTION	NUMBER	DATE
554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00	2	8/3/2015

CHA PROJ. NO. 24344

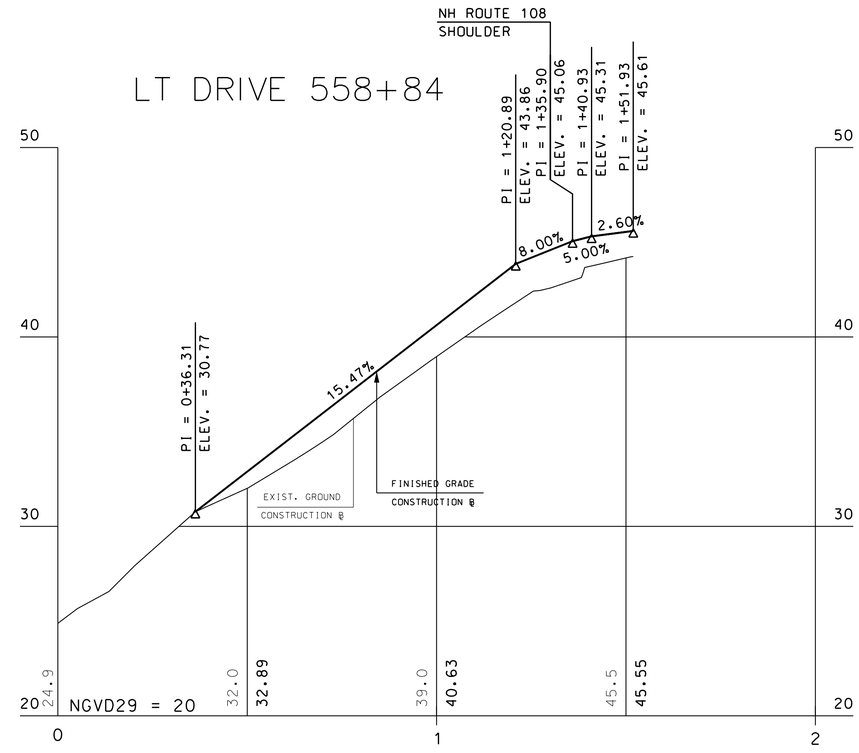
PLOTTED DATED 8/1/2015

FILE NAME • V:\PROJECTS\KNH\24344\CADD_MSTN\PRJ\CUT SHEETS\PROFILES\13080A_PRO_RAP2.DGN

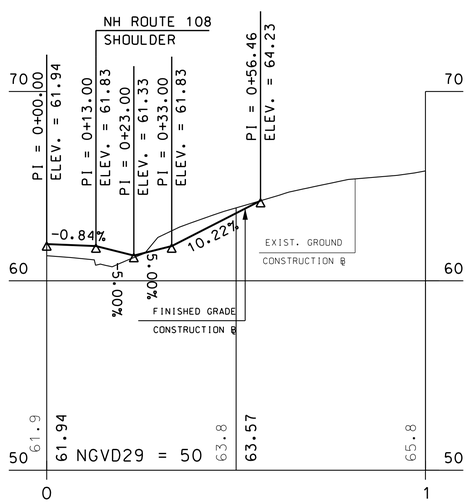
LT DRIVE 557+40



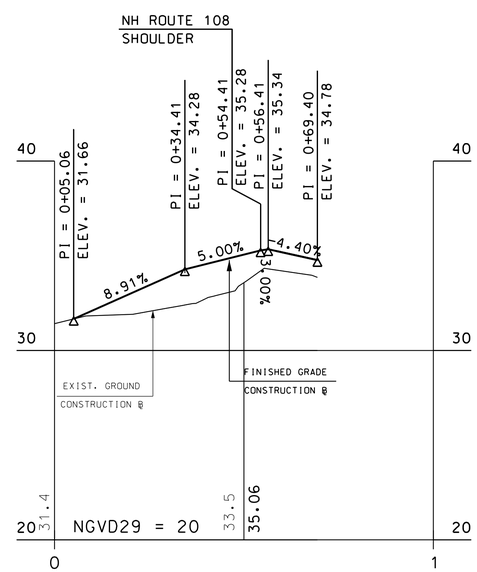
LT DRIVE 558+84



RT DRIVE 563+25



LT DRIVE 574+00



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DRIVE PROFILES A1

MODEL	DGN FILENAME	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
DRIVE PRO A1	13080A_PRO_RAP2.dgn	13080A	39A	119

REVISIONS AFTER PROPOSAL

STATION	STATION	DESCRIPTION	NUMBER	DATE
554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00	2	8/3/2015

		DATE
EXISTING DETAIL NHDOT		02/10
NEW DESIGN	P.R.P.	8/15
SHEET CHECKED	J.P.	8/15
AS BUILT DETAILS		DATE

CHA PROJ. NO. 24344

FILE NAME = V:\PROJECTS\KNH\24344\CADD_MSTN\PRA\CUT SHEETS\PROFILES\13080A_PRO_RAP2.DGN PLOTTED DATED 8/2/2015

B1
STA 555+35.0, LT 25.0' TO STA 555+00.0, LT 25.0'
CONSTRUCT 35.0' x 12" PE PIPE (TYPE S)
CONSTRUCT 12" ALUMINIZED STEEL END SECTION
INV. @ PIPE = 45.00
CONSTRUCT 12" ALUMINIZED STEEL END SECTION
INV. @ PIPE = 44.00

B2
STA 557+54.9, LT 21.5' TO STA 557+25.0, RT 35.0'
CONSTRUCT 59.9' x 36" R.C. PIPE
CONSTRUCT PC-3 HEADWALL @ STA +25.0, RT 35.0'
INV. @ PIPE = 35.50
CONSTRUCT STONE FILL, CLASS C
CONSTRUCT NON-WOVEN GEOTEXTILE

B3
STA 557+59.5, LT 49.1' TO STA 557+54.9, LT 21.5'
CONSTRUCT 24.0' x 36" R.C. PIPE
CONSTRUCT DRAINAGE MANHOLE, 8-FOOT @ +54.9, LT 21.5'
36'' INV. IN = 35.25
15'' INV. IN = 37.00
36'' INV. OUT = 35.25
COVER ELEV.= 42.50
CONSTRUCT PC-3 HEADWALL @ STA +59.5, LT 49.1'
INV. @ PIPE = 35.00
CONSTRUCT STONE FILL, CLASS C
CONSTRUCT NON-WOVEN GEOTEXTILE

B4
STA 558+05.1, RT 40.0' TO STA 558+35.0, RT 40.0'
CONSTRUCT 30.2' x 24" PE PIPE (TYPE S)
CONSTRUCT PC-1 HEADWALL @ STA +35.0, RT 40.0'
INV. @ PIPE = 37.75
CONSTRUCT STONE FILL, CLASS C
CONSTRUCT NON-WOVEN GEOTEXTILE
CONSTRUCT 24" ALUMINIZED STEEL END SECTION
INV. @ PIPE = 37.50
CONSTRUCT STONE FILL, CLASS C
CONSTRUCT NON-WOVEN GEOTEXTILE

B5
STA 557+54.9, LT 21.5' TO STA 559+05.0, LT 13.3'
CONSTRUCT 143.7' x 15" R.C. PIPE
CONSTRUCT CATCH BASIN TYPE B, 4-FOOT DIAMETER @ +05.0, LT 13.3' W/ECCENTRIC CONE
& POLYETHYLENE LINER
15'' INV. IN = 39.85
15'' INV. OUT = 38.60
GRATE ELEV.= 45.70
2

B6
STA 559+05.0, LT 13.3' TO STA 559+15.1, LT 13.3'
CONSTRUCT 6.0' x 15" R.C. PIPE
CONSTRUCT CATCH BASIN TYPE B, 4-FOOT DIAMETER @ +15.1, LT 13.3' W/ECCENTRIC CONE
& POLYETHYLENE LINER
15'' INV. OUT = 40.00
GRATE ELEV.= 46.00
2

B7
STA 560+64.9, RT 30.0' TO STA 562+19.9, RT 25.0'
CONSTRUCT 156.2' x 12" PE PIPE (TYPE S)
CONSTRUCT 12" ALUMINIZED STEEL END SECTION
INV. @ PIPE = 57.50
CONSTRUCT 12" ALUMINIZED STEEL END SECTION
INV. @ PIPE = 51.00

B8
NOTE DELETED

B9
NOTE DELETED

B10
NOTE DELETED

B11
STA 573+00.0, RT 14.0' TO STA 573+00.0, RT 21.9'
CONSTRUCT 5.9' x 24" R.C. PIPE
CONSTRUCT 24" R.C. END SECTION
INV. @ PIPE = 29.76

B12
STA 573+00.0, LT 39.0' TO STA 573+00.0, RT 14.0'
CONSTRUCT 51.0' x 24" R.C. PIPE
CONSTRUCT DROP INLET TYPE B, 4-FOOT DIAMETER @ +00.0, RT 14.0'
W/ POLYETHYLENE LINER
6" INV. IN = 30.50
24" INV. IN = 28.95
24" INV. OUT = 28.95
GRATE ELEV.= 34.33
2
CONSTRUCT PC-3 HEADWALL @ STA +00.0, LT 39.0'
INV. @ PIPE = 26.65
CONSTRUCT STONE FILL, CLASS C
CONSTRUCT NON-WOVEN GEOTEXTILE
REMOVE MRM HDR
REMOVE MRM HDR
REMOVE 49.4' x 15" RCP (SUBSIDIARY)

B13
NOTE DELETED

B14
NOTE DELETED
1

B15
STA 581+23.8, LT 38.1' TO STA 580+79.0, RT 35.0'
CONSTRUCT 85.7' x 18" R.C. PIPE
CONSTRUCT PC-3 HEADWALL @ STA +79.0, RT 35.0'
INV. @ PIPE = 26.80
CONSTRUCT STONE FILL, CLASS C
CONSTRUCT NON-WOVEN GEOTEXTILE
CONSTRUCT PC-3 HEADWALL @ STA +23.8, LT 38.1'
INV. @ PIPE = 26.25
STA 580+79.8, RT 33.0' TO STA 580+82.5, RT 25.4'
REMOVE 8.0' x 15" R.C. PIPE (SUBSIDIARY)
REMOVE MRM HDR @ 580+76.8, RT 31.4'
1

B16
NOTE DELETED
1

B17
STA 585+50.0, LT 24.8' TO STA 585+50.0, LT 13.3'
CONSTRUCT 9.5' x 12" PE PIPE (TYPE S)
CONSTRUCT DROP INLET TYPE B, 4-FOOT DIAMETER @ +50.0, LT 13.3' w/OFFSET
SLAB TOP & POLYETHYLENE LINER
12'' INV. OUT = 25.55
GRATE ELEV.= 29.70
CONSTRUCT 12" ALUMINIZED STEEL END SECTION
INV. @ PIPE = 25.40
CONSTRUCT STONE FILL, CLASS C
CONSTRUCT NON-WOVEN GEOTEXTILE
1

NOTE:
ALL CONCRETE HEADWALLS SHALL BE CONSTRUCTED WITH FORM LINERS TO GIVE THE EXPOSED CONCRETE A STONE PATTERN.
1

DRAINAGE STRUCTURES FROM STATION 577+00 TO 617+00 THAT HAVE THE SAME INLET AND OUTLET ELEVATION FOR PIPES CROSSING THE ROADWAY SHALL HAVE NO SUMP. IN ADDITION, IT IS THE INTENT TO ELIMINATE THE "LIP" CREATED AT THE BASE OF THE STRUCTURE WHERE THE PIPES ENTER. THIS MAY MEAN ADDING EXTRA CONCRETE TO THE BOTTOM OF THE STRUCTURE TO ALLOW A SMOOTH SURFACE FROM ONE PIPE TO THE NEXT.

SEE STONE OUTLET PROTECTION TABLE SHOWN ON SHEET 19.

REVISIONS AFTER PROPOSAL

STATION	STATION	DESCRIPTION	NUMBER	DATE
575+50	618+50	PROFILE REVISION	1	6/5/2015
554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00	2	8/3/2015

		DATE
EXISTING DETAIL	NHDOT	02/10
NEW DESIGN	P.R.P.	8/15
SHEET CHECKED	J.P.	8/15
AS BUILT DETAILS		DATE

CHA PROJ. NO. 24344

PLOTTED DATED 8/1/2015

FILE NAME - V:\PROJECTS\KNH\24344\CADD_MSTN\PRA\CUT SHEETS\13080ADNS_RAP.DGN

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STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION ∘ BUREAU OF HIGHWAY DESIGN

DRAINAGE NOTES 1 OF 4

MODEL	DGN FILENAME	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
Default	13080ADNS_RAP.dgn	13080A	41B	119

PROFILE REVISION 618+50 575+50 7/9/2015 1

B35 STA 617+50.0, LT 14.0' TO STA 617+50.0, LT 23.0'
CONSTRUCT 5.0' x 18" R.C. PIPE
CONSTRUCT CATCH BASIN TYPE E @ +50.0, LT 23.0' w/SLAB TOP
18'' INV. OUT = 29.10
GRATE ELEV.= 33.00

B36 STA 617+50.0, RT 13.3' TO STA 617+50.0, LT 14.0'
CONSTRUCT 23.3' x 18" R.C. PIPE
CONSTRUCT CATCH BASIN TYPE B, 4-FOOT DIAMETER @ +50.0, RT 13.3'
W/ POLYETHYLENE LINER
18" INV. IN = 29.00
18" INV. OUT = 28.75
2 GRATE ELEV.= 34.87
1

B37 STA 617+50.0, RT 28.0' TO STA 617+50.0, RT 13.3'
CONSTRUCT 12.8' x 18" R.C. PIPE
CONSTRUCT CATCH BASIN TYPE B, 4-FOOT DIAMETER @ +50.0, RT 13.3' W/ECCENTRIC CONE
& POLYETHYLENE LINER
18'' INV. IN = 28.60
18'' INV. OUT = 28.60
2 GRATE ELEV.= 34.02
CONSTRUCT PC-3 HEADWALL @ STA +50.0, RT 28.0'
INV. @ PIPE = 28.50
CONSTRUCT STONE FILL, CLASS C
CONSTRUCT NON-WOVEN GEOTEXTILE
1

B38 STA 623+30.0, RT 65.0' TO STA 623+65.0, LT 45.0'
CONSTRUCT 115.4' x 30" R.C. PIPE
CONSTRUCT PC-3 HEADWALL @ STA +65.0, LT 45.0'
INV. @ PIPE = 35.00
CONSTRUCT STONE FILL, CLASS C
CONSTRUCT NON-WOVEN GEOTEXTILE
CONSTRUCT PC-3 HEADWALL @ STA +30.0, RT 65.0'
INV. @ PIPE = 33.00
CONSTRUCT STONE FILL, CLASS C
CONSTRUCT NON-WOVEN GEOTEXTILE

B39 STA 631+00.0, RT 13.3' TO STA 631+00.0, LT 26.0'
CONSTRUCT 35.3' x 15" R.C. PIPE
CONSTRUCT CATCH BASIN TYPE E @ +00.0, LT 26.0' w/SLAB TOP
6'' INV. IN = 32.75
15'' INV. OUT = 32.00
2 GRATE ELEV.= 35.70

B40 STA 631+30.0, RT 13.3' TO STA 631+00.0, RT 13.3'
CONSTRUCT 26.0' x 15" R.C. PIPE
CONSTRUCT CATCH BASIN TYPE B, 4-FOOT DIAMETER @ +00.0, RT 13.3' W/ECCENTRIC CONE
& POLYETHYLENE LINER
15'' INV. IN = 31.50
15'' INV. OUT = 31.25
2 GRATE ELEV.= 37.55

B41 STA 631+30.0, RT 27.5' TO STA 631+30.0, RT 13.3'
CONSTRUCT 12.3' x 24" R.C. PIPE
CONSTRUCT CATCH BASIN TYPE B, 4-FOOT DIAMETER @ +30.0, RT 13.3' W/ECCENTRIC CONE
& POLYETHYLENE LINER
15" INV. IN = 31.00
15" INV. IN = 31.00
24" INV. OUT = 30.00
2 GRATE ELEV.= 37.45
CONSTRUCT PC-3 HEADWALL @ STA +30.0, RT 27.5'
INV. @ PIPE = 29.39
CONSTRUCT STONE FILL, CLASS C
CONSTRUCT NON-WOVEN GEOTEXTILE

B42 STA 631+30.0, RT 13.3' TO STA 631+30.0, LT 26.0'
CONSTRUCT 35.3' x 15" R.C. PIPE
CONSTRUCT CATCH BASIN TYPE E @ +30.0, LT 26.0' w/SLAB TOP
& POLYETHYLENE LINER
6'' INV. IN = 32.25
15'' INV. OUT = 31.50
2 GRATE ELEV.= 36.00

B43 STA 639+90.0, RT 14.0' TO STA 639+25.0, RT 21.0'
CONSTRUCT 61.4' x 12" R.C. PIPE
CONSTRUCT DROP INLET TYPE B, 4-FOOT DIAMETER @ +25.0, RT 21.0' w/SLAB TOP
6" INV. IN = 26.70
12" INV. OUT = 26.17
2 GRATE ELEV.= 30.80

B44 STA 639+90.0, LT 22.0' TO STA 638+54.6, LT 27.5'
CONSTRUCT 131.5' x 15" PE PIPE (TYPE S)
CONSTRUCT CATCH BASIN TYPE E @ +54.6, LT 27.5' w/SLAB TOP
15'' INV. OUT = 27.50
2 GRATE ELEV.= 31.40
REMOVE 5.2' x 15" RCP (SUBSIDIARY)

B45 STA 639+90.0, LT 22.0' TO STA 639+90.0, RT 14.0'
CONSTRUCT 32.0' x 15" R.C. PIPE
CONSTRUCT CATCH BASIN TYPE B, 4-FOOT DIAMETER @ +90.0, LT 22.0' w/SLAB TOP
15" INV. IN = 25.77
6" INV. IN = 26.00
15" INV. OUT = 25.77
2 GRATE ELEV.= 29.70

B46 STA 640+50.0, RT 15.0' TO STA 639+90.0, RT 14.0'
CONSTRUCT 56.0' x 18" R.C. PIPE
CONSTRUCT CATCH BASIN TYPE B, 4-FOOT DIAMETER @ +90.0, RT 14.0' w/SLAB TOP
& POLYETHYLENE LINER
15" INV. IN = 25.61
12" INV. IN = 25.36
18" INV. OUT = 25.36
2 GRATE ELEV.= 30.15

B47 STA 640+71.9, RT 30.7' TO STA 640+50.0, RT 15.0'
CONSTRUCT 25.0' x 18" PE PIPE (TYPE S)
CONSTRUCT CATCH BASIN TYPE B, 4-FOOT DIAMETER @ +50.0, RT 15.0' w/SLAB TOP
18'' INV. IN = 25.08
18'' INV. OUT = 25.08
2 GRATE ELEV.= 29.50
CONSTRUCT PC-1 HEADWALL @ STA +71.9, RT 30.7'
INV. @ PIPE = 24.90
CONSTRUCT STONE FILL, CLASS C
CONSTRUCT NON-WOVEN GEOTEXTILE

B48 STA 641+78.0, LT 38.0' TO STA 641+50.0, LT 19.2'
CONSTRUCT 29.7' x 24" PE PIPE (TYPE S)
CONSTRUCT CATCH BASIN TYPE B, 8-FOOT DIAMETER @ +50.0, LT 19.2'
W/ECCENTRIC CONE & POLYETHYLENE LINER
15" INV. IN = 24.40
24" INV. IN = 23.40
24" INV. OUT = 23.40
2 GRATE ELEV.= 29.10
CONSTRUCT 24" R.C. END SECTION
INV. @ PIPE = 23.20

B49 STA 641+50.0, LT 19.2' TO STA 641+50.0, RT 16.3'
CONSTRUCT 31.5' x 15" R.C. PIPE
CONSTRUCT CATCH BASIN TYPE B, 4-FOOT DIAMETER @ +50.0, RT 16.3'
15'' INV. IN = 24.56
15'' INV. OUT = 24.56
2 GRATE ELEV.= 29.32

B50 STA 641+50.0, RT 16.3' TO STA 642+43.0, RT 14.0'
CONSTRUCT 89.0' x 15" R.C. PIPE
CONSTRUCT DROP INLET TYPE B, 4-FOOT DIAMETER @ +43.0, RT 14.0'
W/ POLYETHYLENE LINER
15'' INV. IN = 25.75
15'' INV. OUT = 25.50
2 GRATE ELEV.= 31.20

B51 STA 642+43.0, RT 14.0' TO STA 643+85.0, RT 21.0'
CONSTRUCT 138.2' x 15" R.C. PIPE
CONSTRUCT DROP INLET TYPE B, 4-FOOT DIAMETER @ +85.0, RT 21.0'
12'' INV. IN = 31.25
12'' INV. IN = 31.25 (FUTURE CONTRACT B)
6'' INV. IN = 31.25 (FUTURE CONTRACT B)
15'' INV. OUT = 31.00
GRATE ELEV.= 36.90

B52 STA 641+50.0, LT 19.2' TO STA 642+50.0, LT 18.0'
CONSTRUCT 94.1' x 24" R.C. PIPE
CONSTRUCT CATCH BASIN TYPE B, 4-FOOT DIAMETER @ +50.0, LT 18.0'
24" INV. OUT = 24.25
2 GRATE ELEV.= 31.22

NOTE:
ALL CONCRETE HEADWALLS SHALL BE CONSTRUCTED WITH FORM LINERS TO GIVE THE EXPOSED CONCRETE A STONE PATTERN.
1

DRAINAGE STRUCTURES FROM STATION 577+00 TO 617+00 THAT HAVE THE SAME INLET AND OUTLET ELEVATION FOR PIPES CROSSING THE ROADWAY SHALL HAVE NO SUMP. IN ADDITION, IT IS THE INTENT TO ELIMINATE THE "LIP" CREATED AT THE BASE OF THE STRUCTURE WHERE THE PIPES ENTER. THIS MAY MEAN ADDING EXTRA CONCRETE TO THE BOTTOM OF THE STRUCTURE TO ALLOW A SMOOTH SURFACE FROM ONE PIPE TO THE NEXT.

SEE STONE OUTLET PROTECTION TABLE SHOWN ON SHEET 19.

REVISIONS AFTER PROPOSAL

NUMBER	DATE	STATION	STATION	DESCRIPTION
				PROFILE REVISION
1	6/5/2015	575+50	618+50	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00
2	8/3/2015	554+00	644+00	

		DATE
EXISTING DETAIL	NHDOT	02/10
NEW DESIGN	P.R.P.	8/15
SHEET CHECKED	J.P.	8/15
AS BUILT DETAILS		DATE

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STATE OF NEW HAMPSHIRE

DEPARTMENT OF TRANSPORTATION ∘ BUREAU OF HIGHWAY DESIGN

DRAINAGE NOTES
3 OF 4

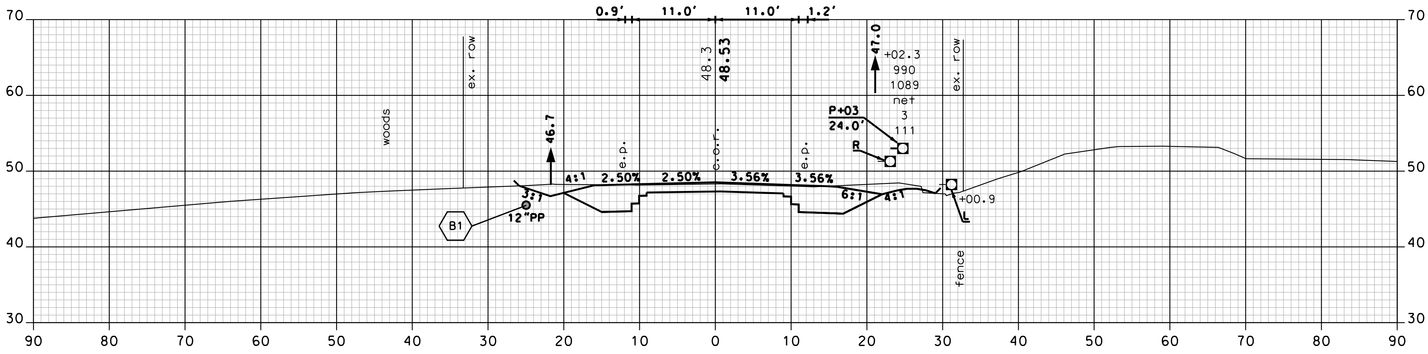
MODEL	DGN FILENAME	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
Default	13080ADNS_RAP.dgn	13080A	43B	119

FILE NAME • V:\PROJECTS\KNH\24344\CADD_MSTN\PRJ\CUT SHEETS\13080ADNS_RAP.DGN
PLOTTED DATED 8/1/2015
CHA PROJ. NO. 24344
PROFILE REVISION 618+50 575+50 7/9/2015 1

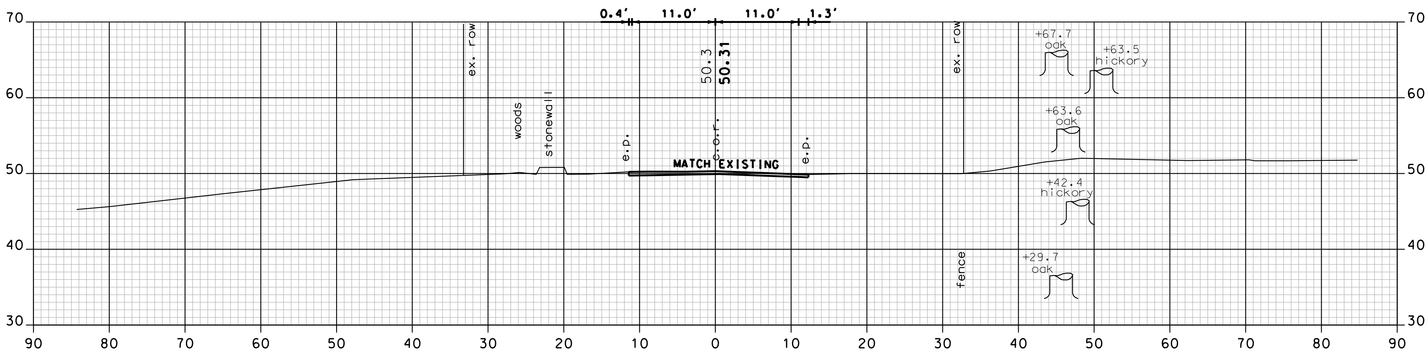
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

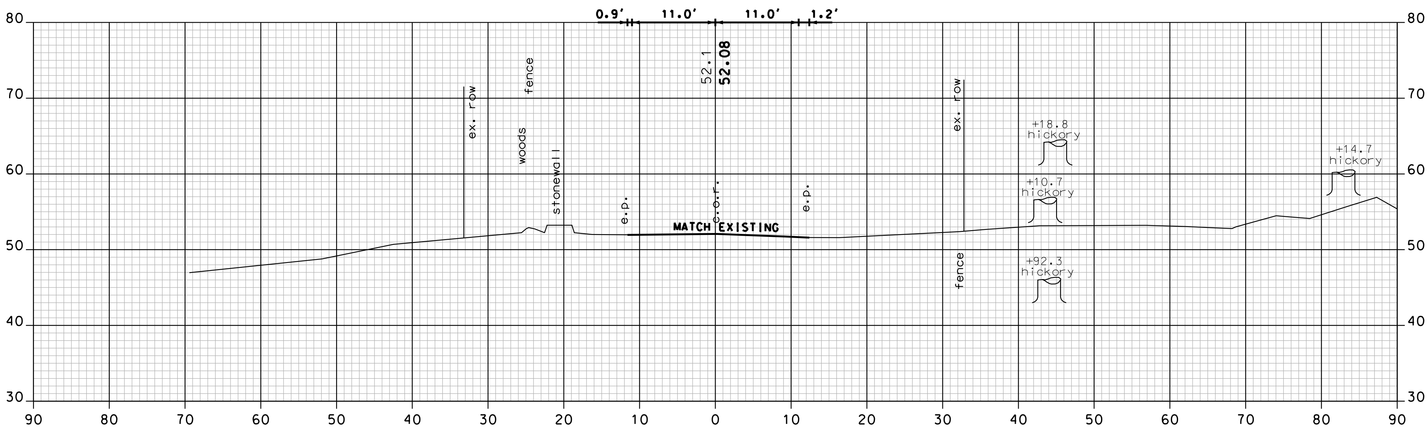
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



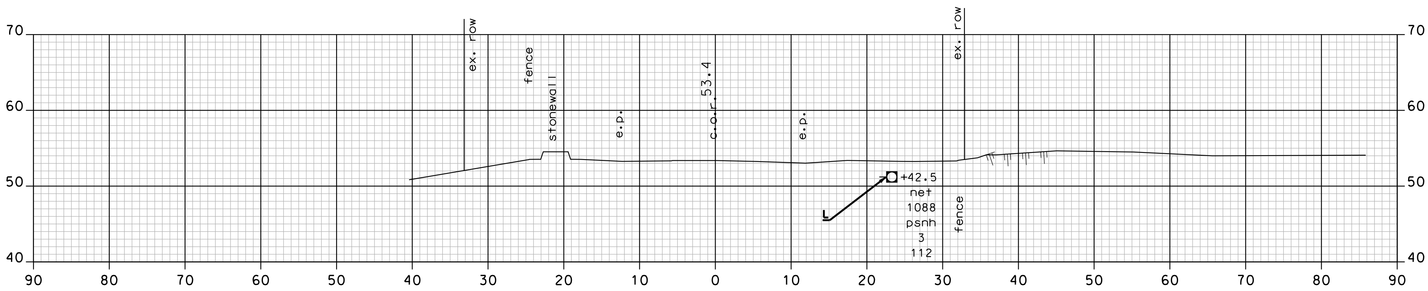
555+00



554+50



554+00



553+50

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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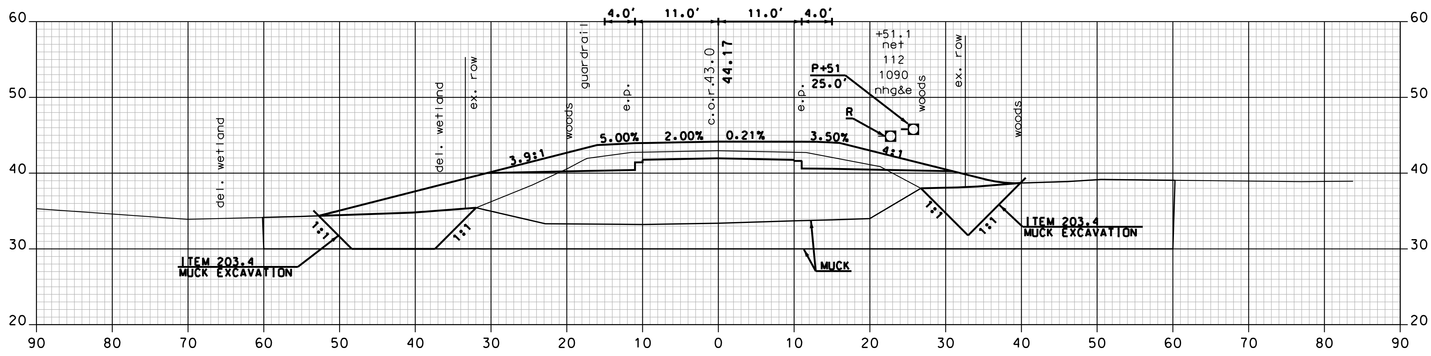
SHEET TOTALS			
COMMON EXCAV.	237.3 C.Y.	ROCK EXCAV.	2.6 C.Y.
FILL	0.5 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	53A	119

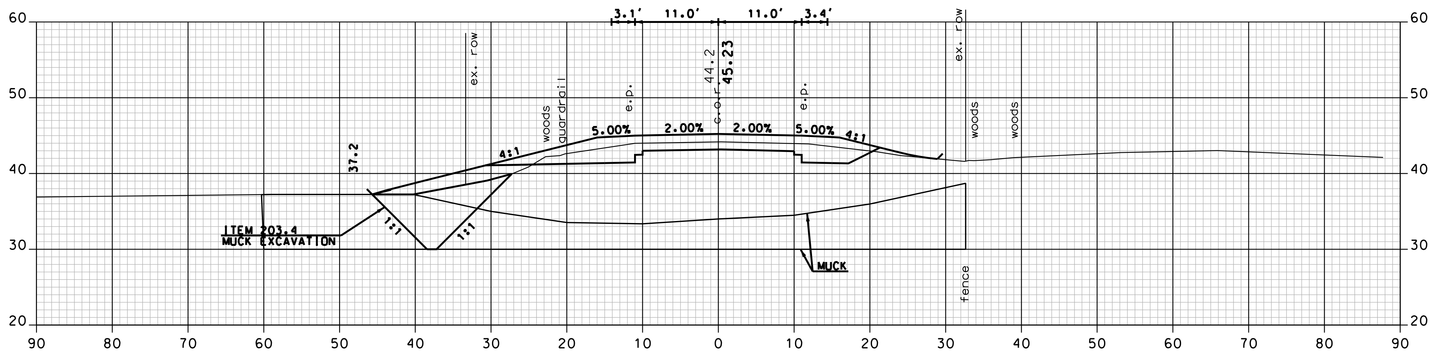
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

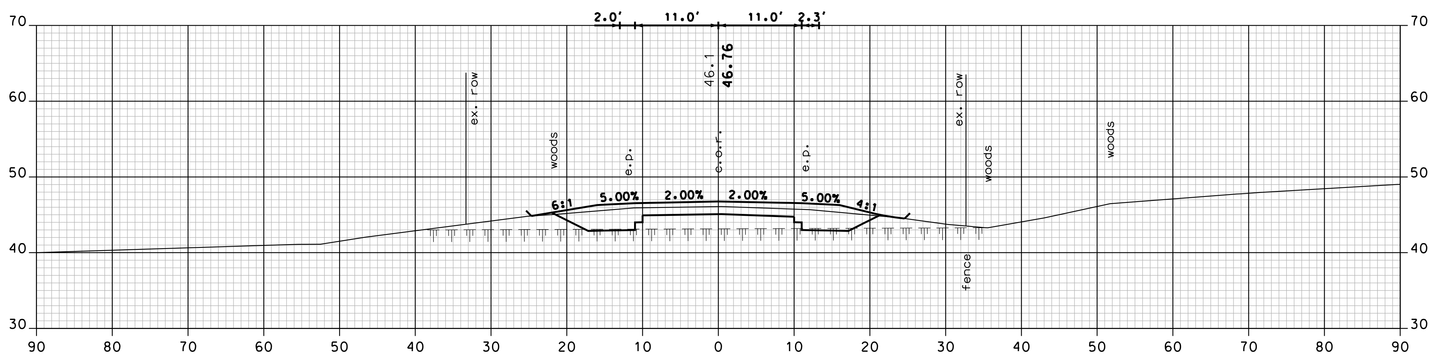
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



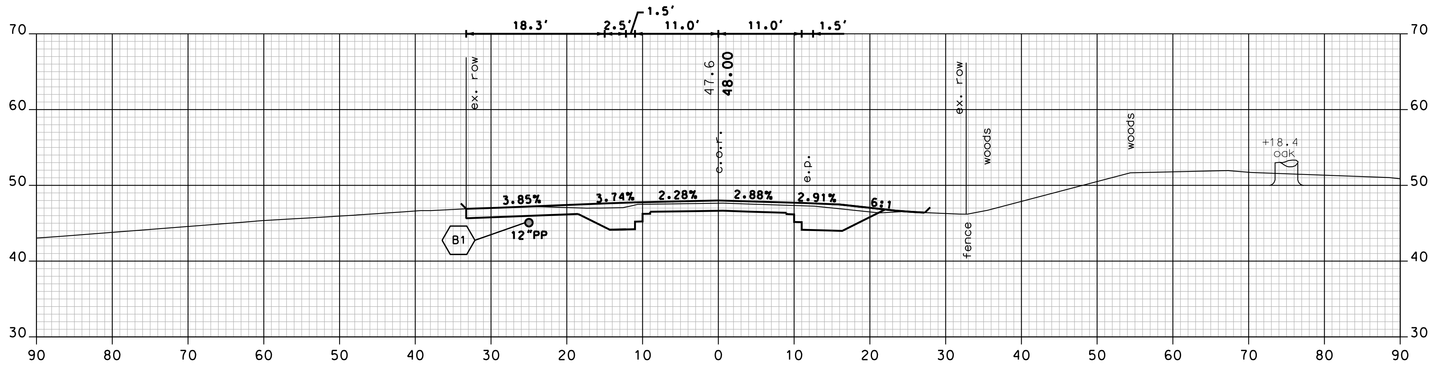
556+50



556+00



555+50



555+15 (DRIVE LT.)

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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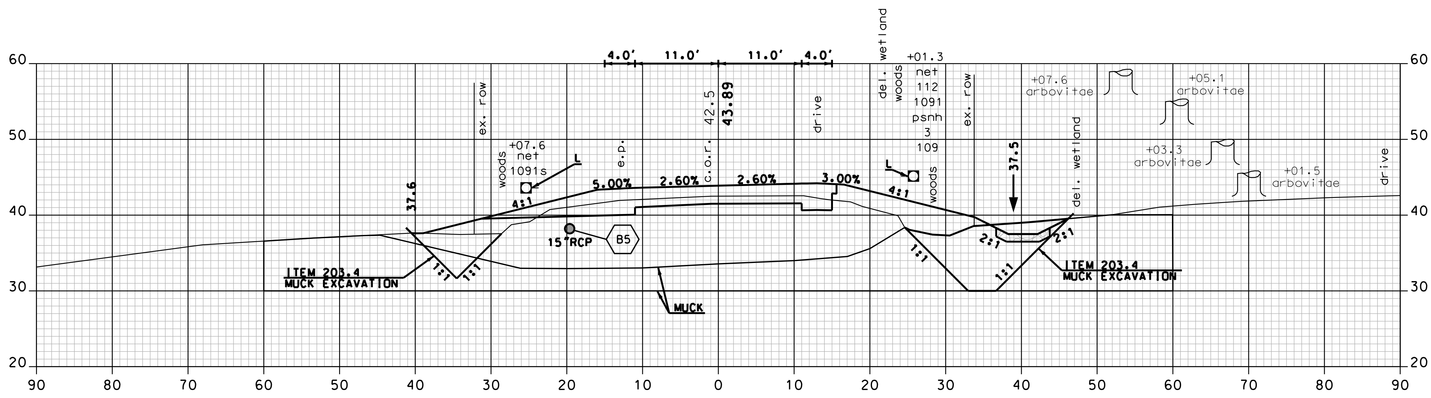
SHEET TOTALS			
COMMON EXCAV.	352.5 C.Y.	ROCK EXCAV.	2.6 C.Y.
FILL	917.0 C.Y.	MUCK EXCAV.	485.1 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	54A	119

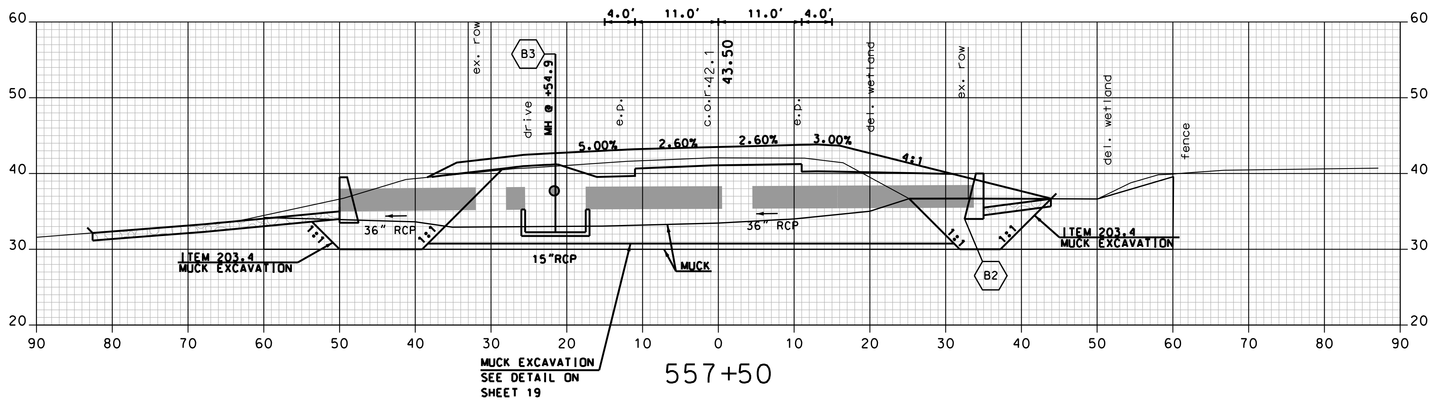
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

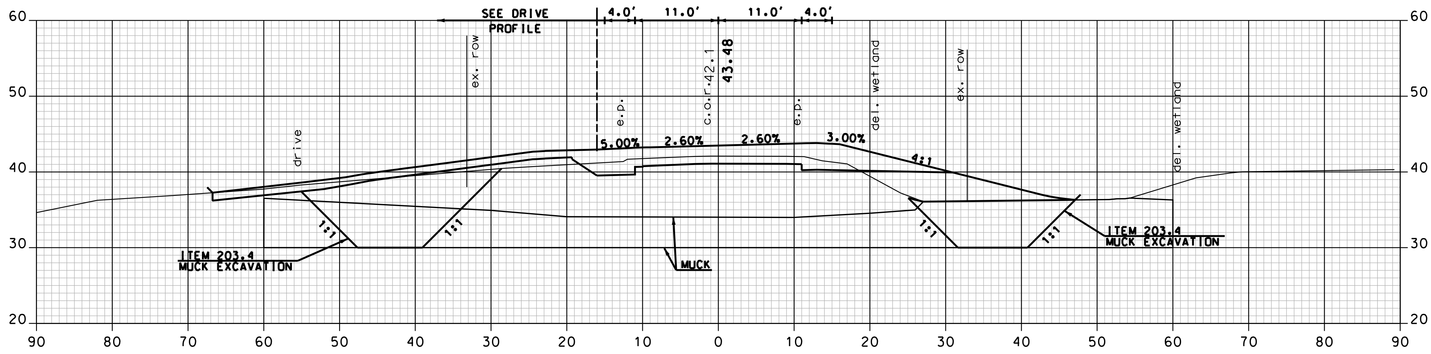
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



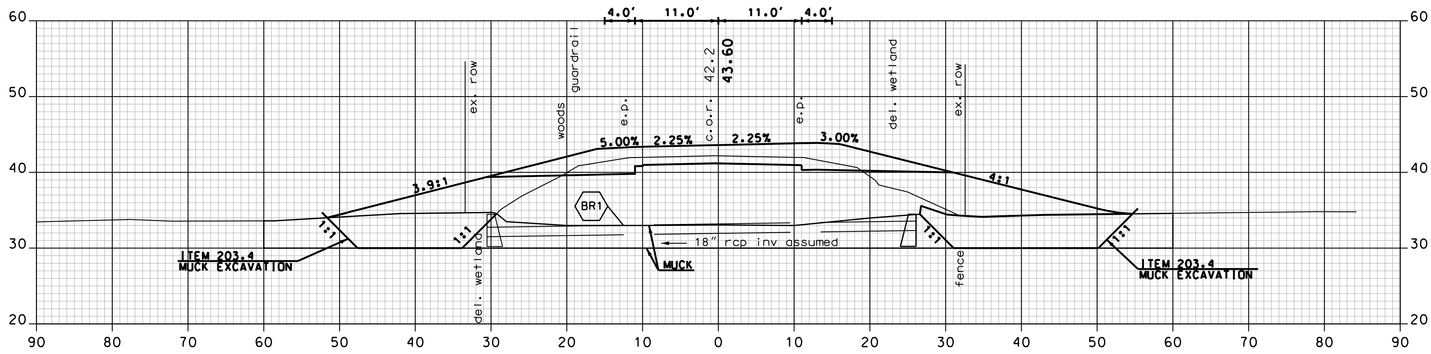
558+00



557+50



557+40 (DRIVE LT.)



557+00

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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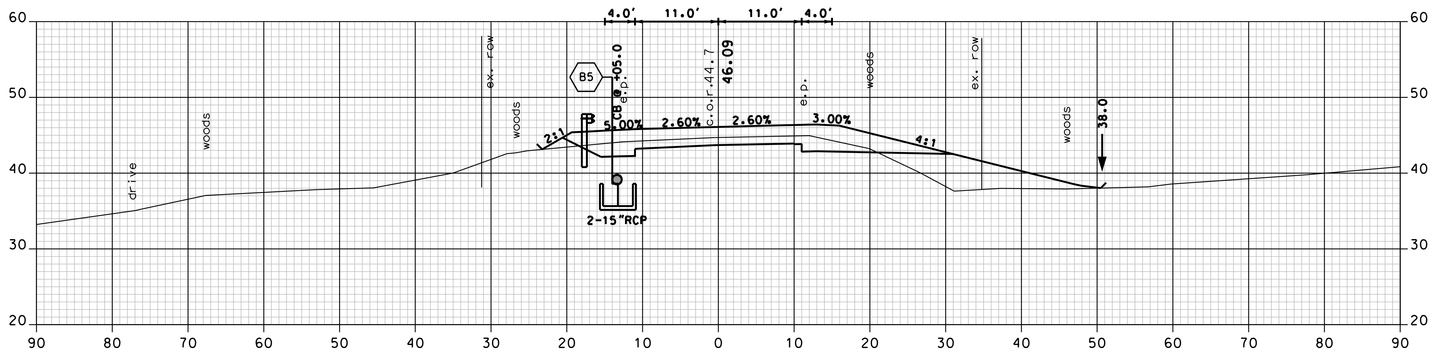
SHEET TOTALS			
COMMON EXCAV.	279.3 C.Y.	ROCK EXCAV.	0.0 C.Y.
FILL	1239.9 C.Y.	MUCK EXCAV.	633.6 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	55A	119

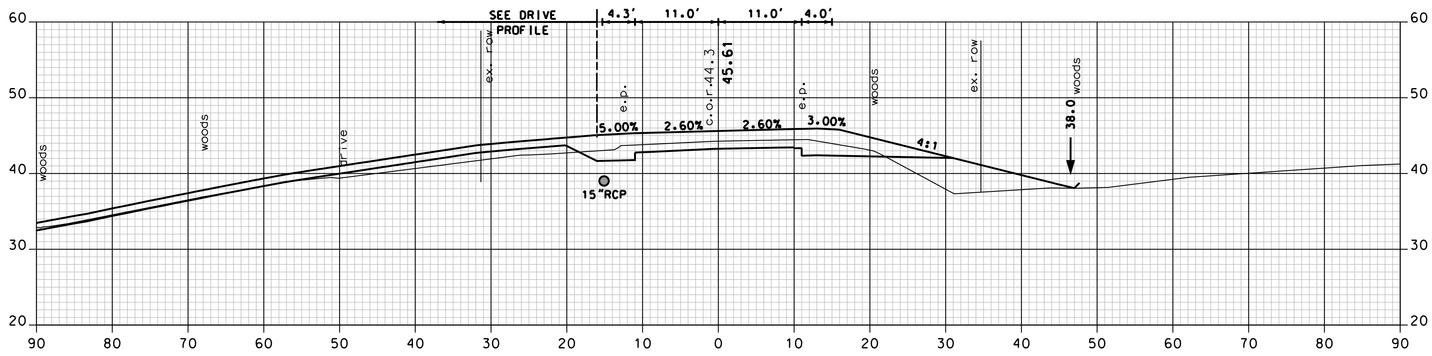
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

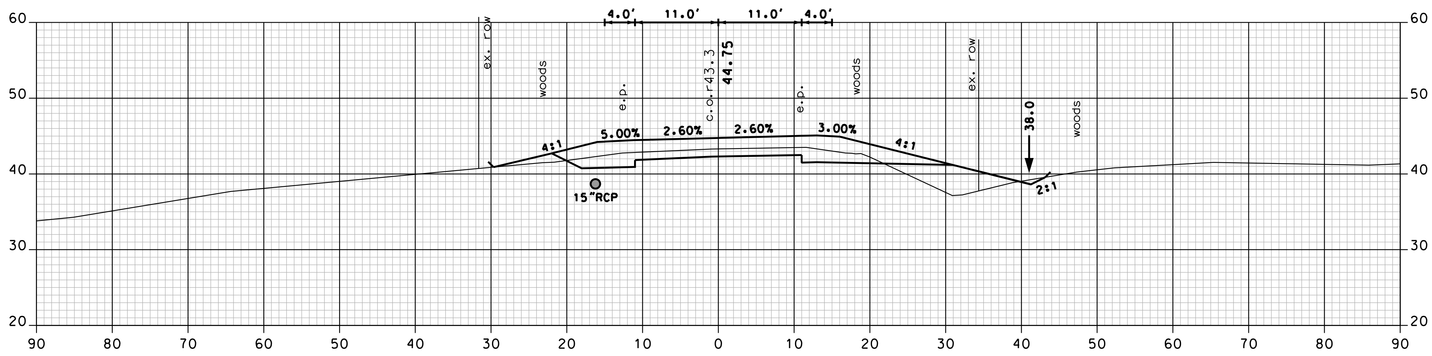
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



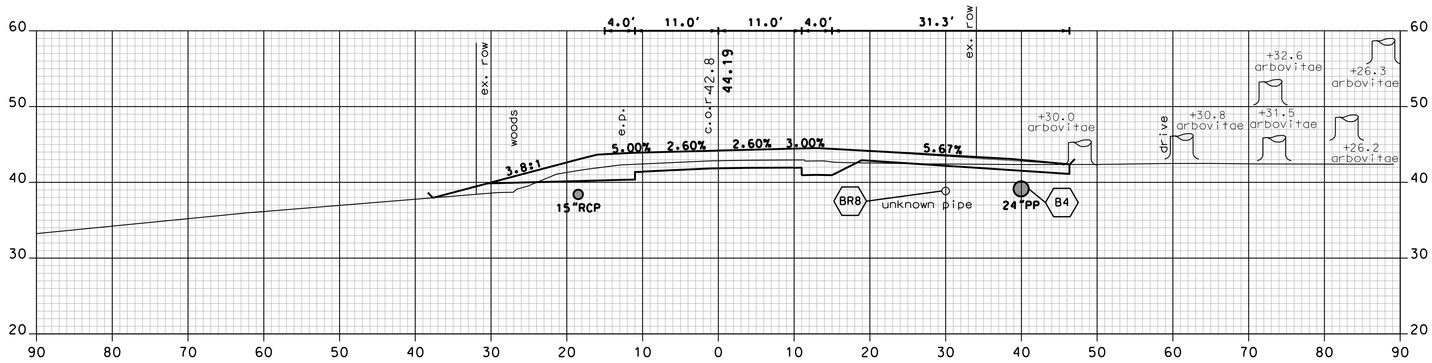
559+00



558+84 (DRIVE LT.)



558+50



558+21 (DRIVE RT.)

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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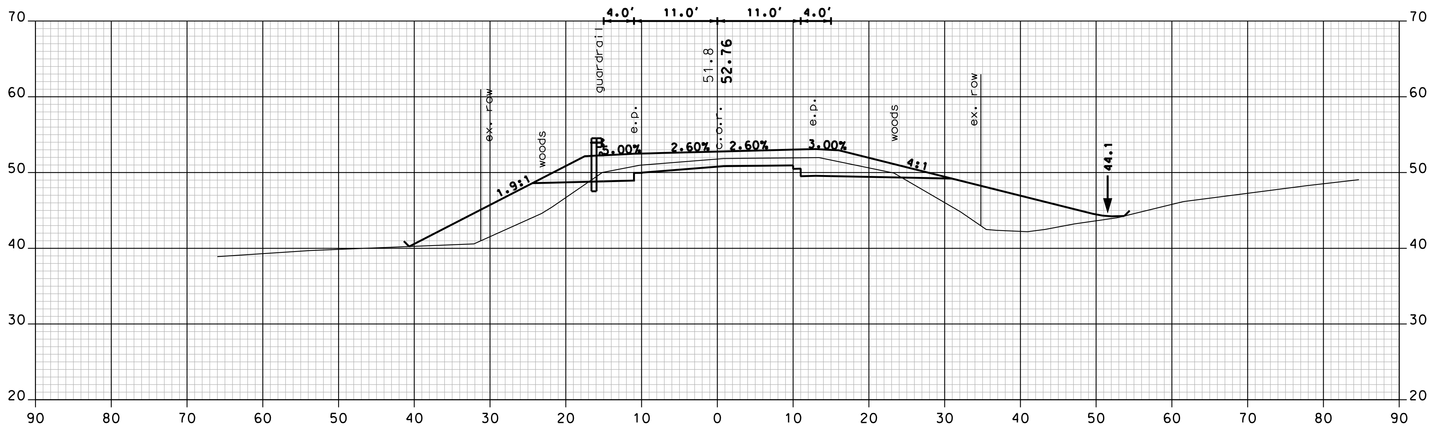
SHEET TOTALS			
COMMON EXCAV.	171.5 C.Y.	ROCK EXCAV.	0.0 C.Y.
FILL	304.1 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	56A	119

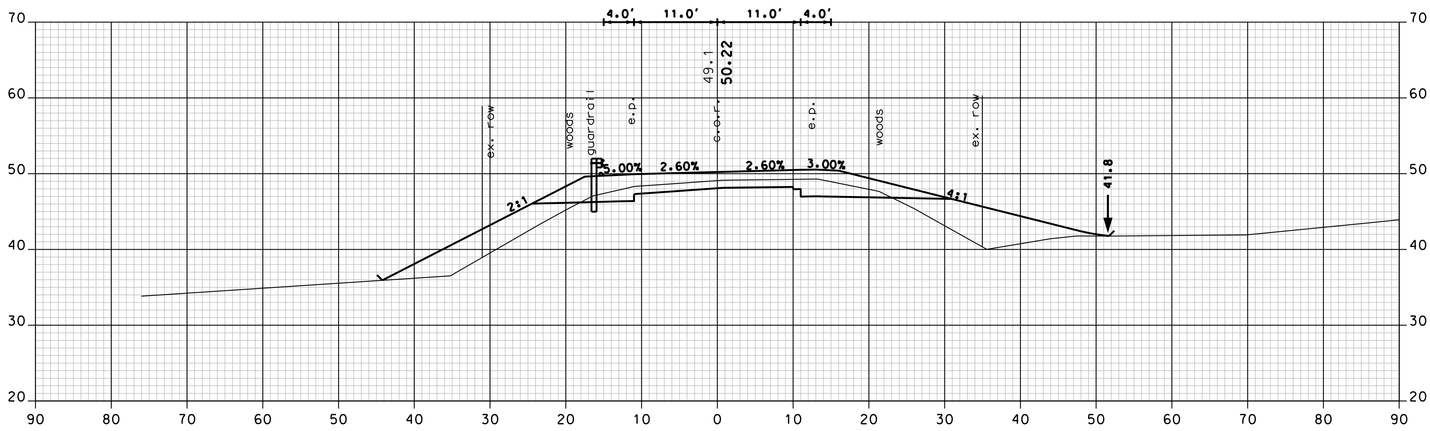
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

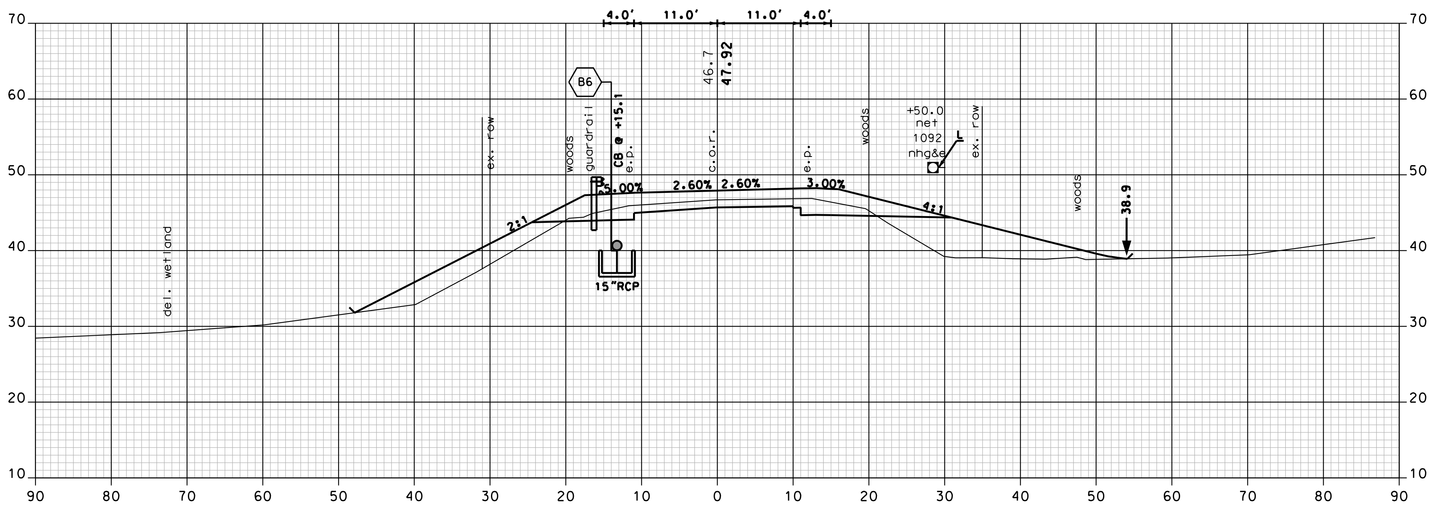
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



560+50



560+00



559+50

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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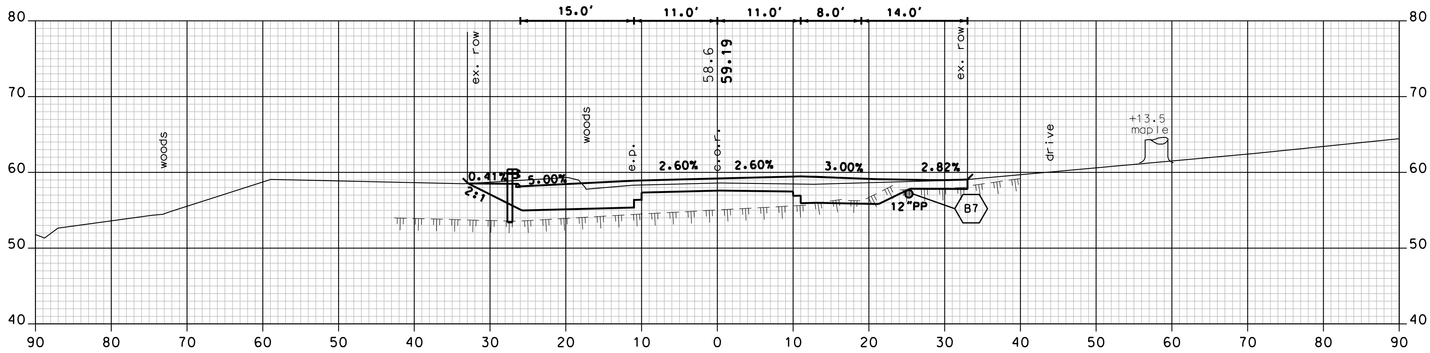
SHEET TOTALS			
COMMON EXCAV.	287.2 C.Y.	ROCK EXCAV.	0.0 C.Y.
FILL	746.3 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	57A	119

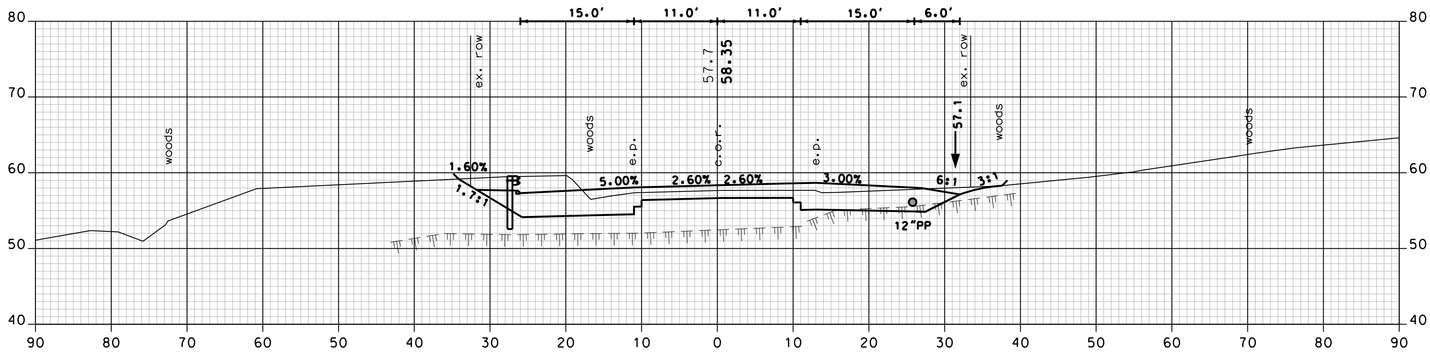
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

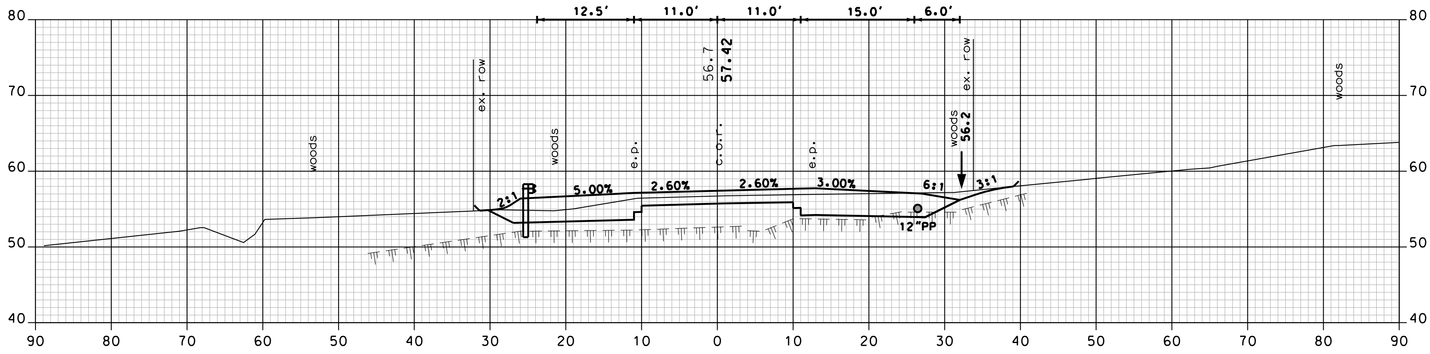
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



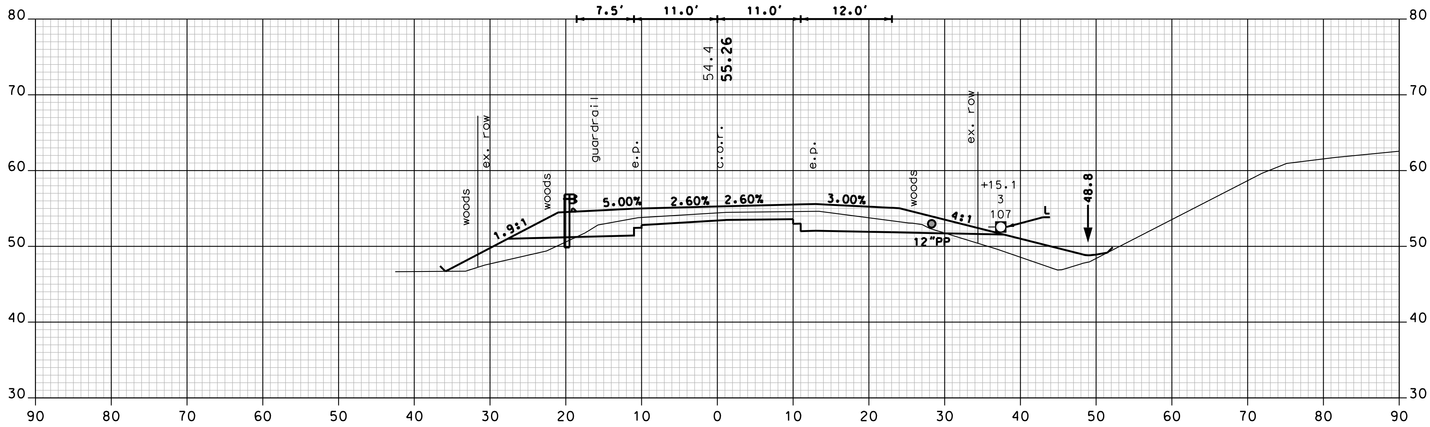
562+00 (DRIVE RT.)



561+75



561+50



561+00

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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NH ROUTE 108 - MCAM

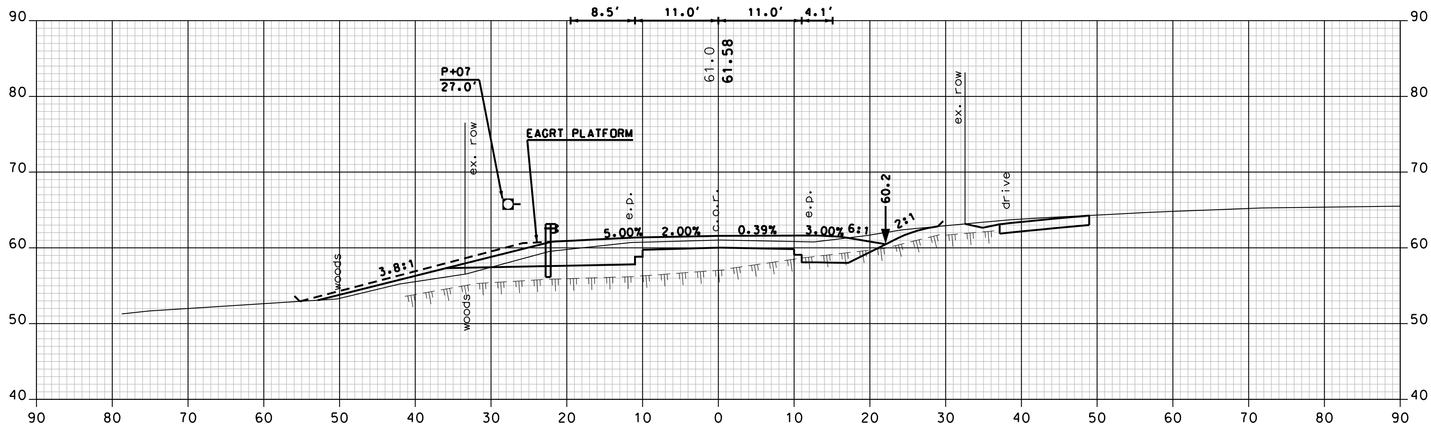
SHEET TOTALS			
COMMON EXCAV.	543.6 C.Y.	ROCK EXCAV.	24.4 C.Y.
FILL	58.9 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	58A	119

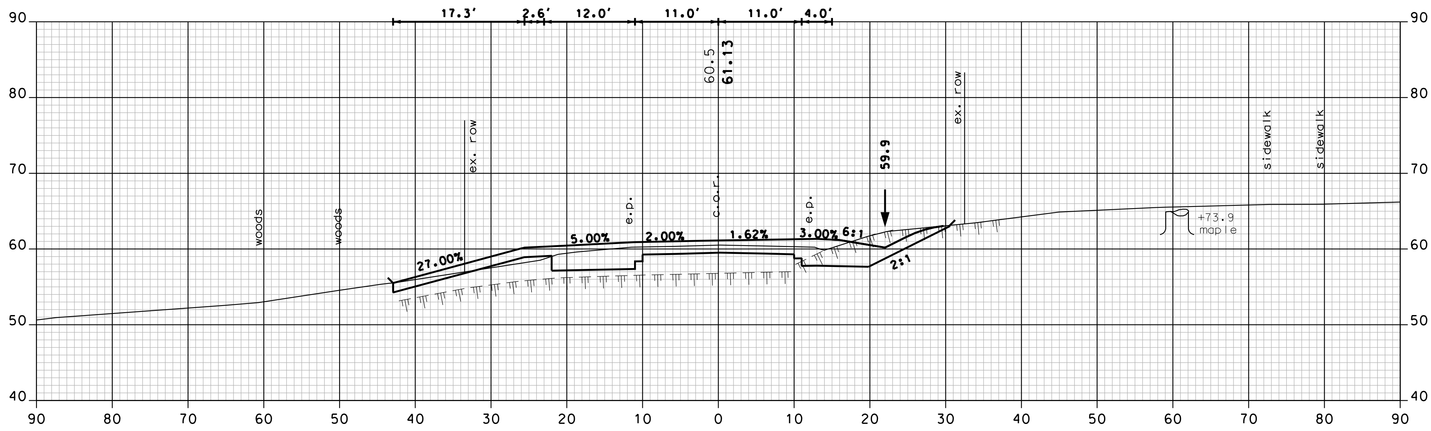
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

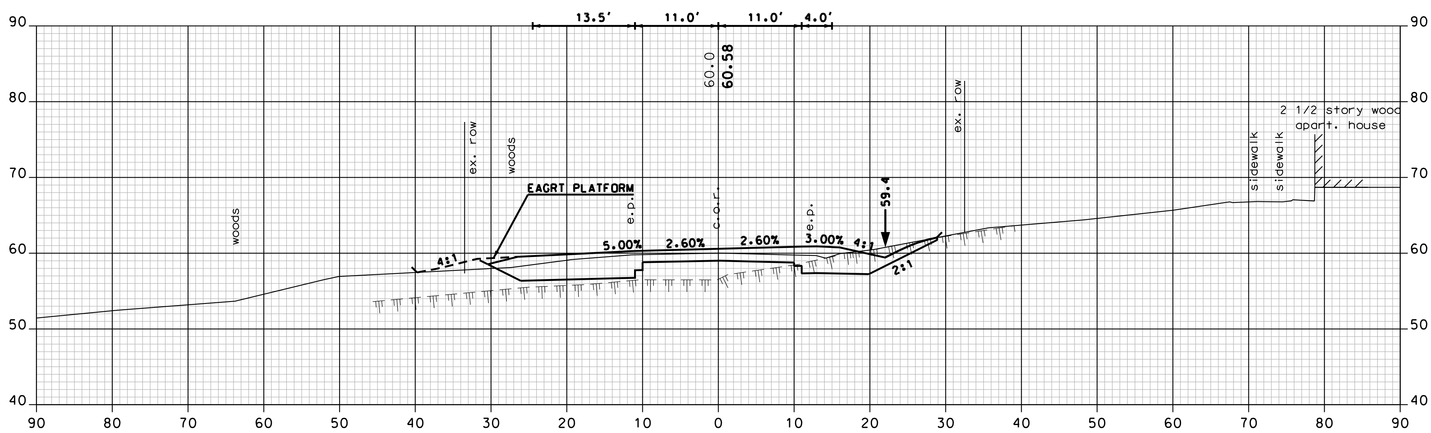
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



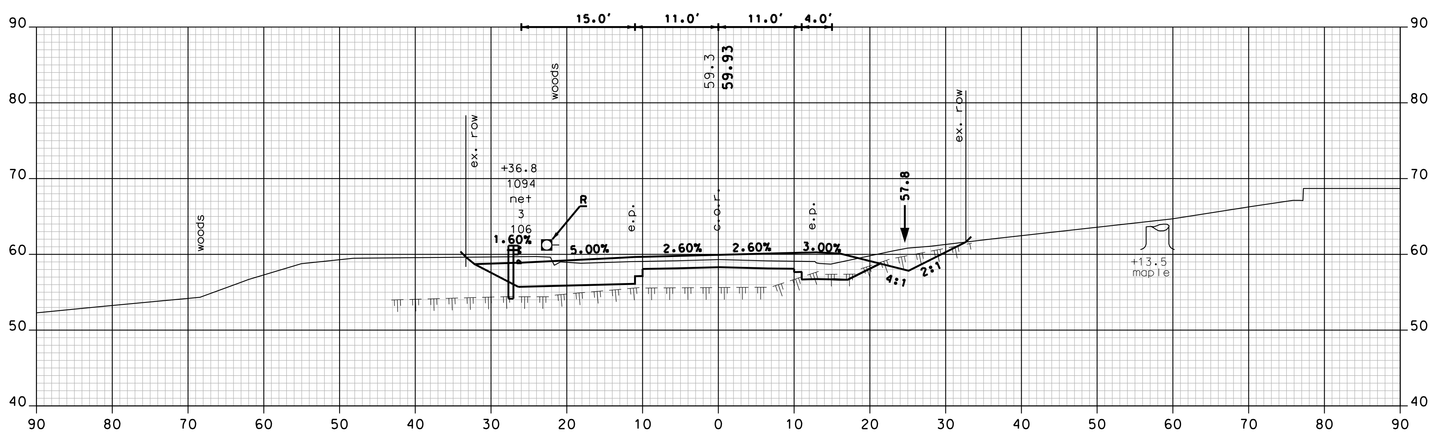
563+00



562+75 (FIELD DRIVE LT.)



562+50



562+25

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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SHEET TOTALS

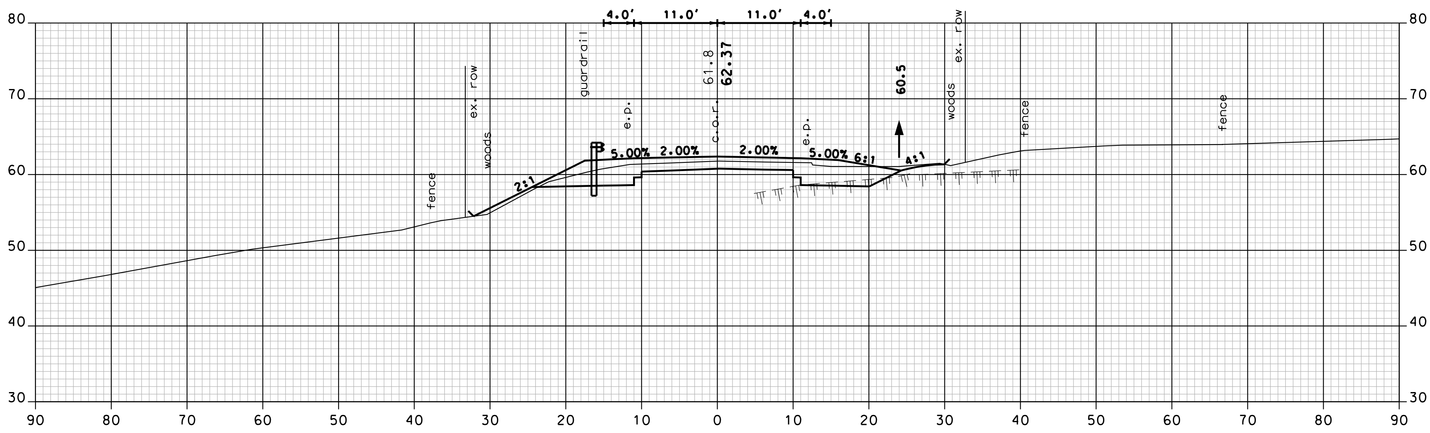
COMMON EXCAV.	296.6 C.Y.	ROCK EXCAV.	93.3 C.Y.
FILL	31.2 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	59A	119

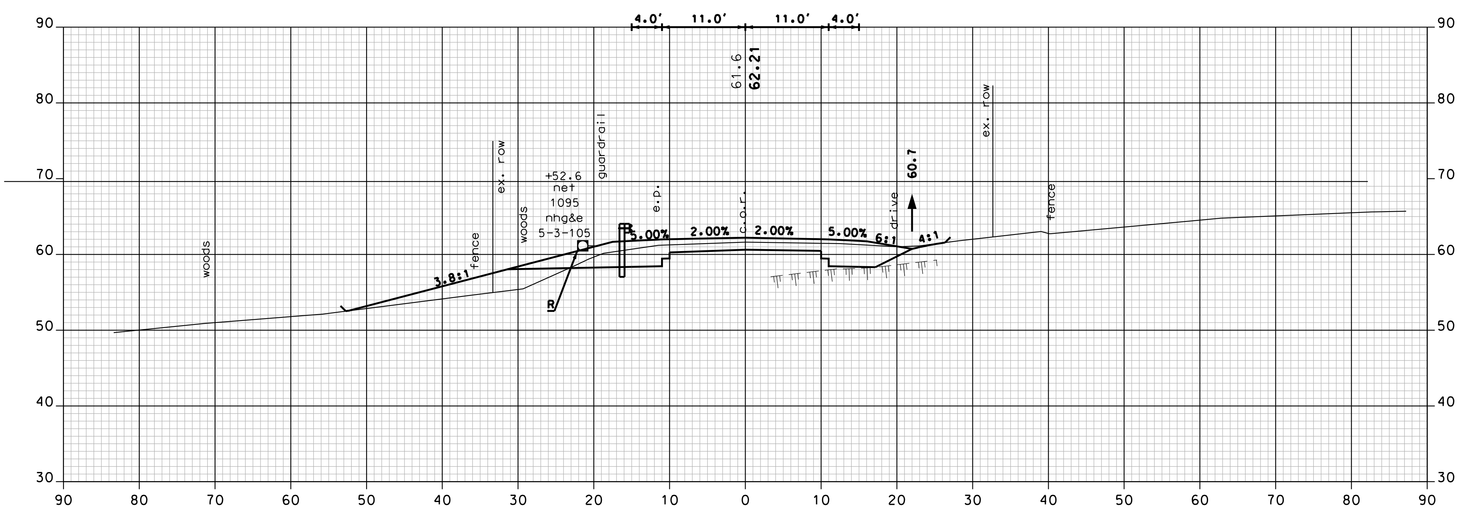
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

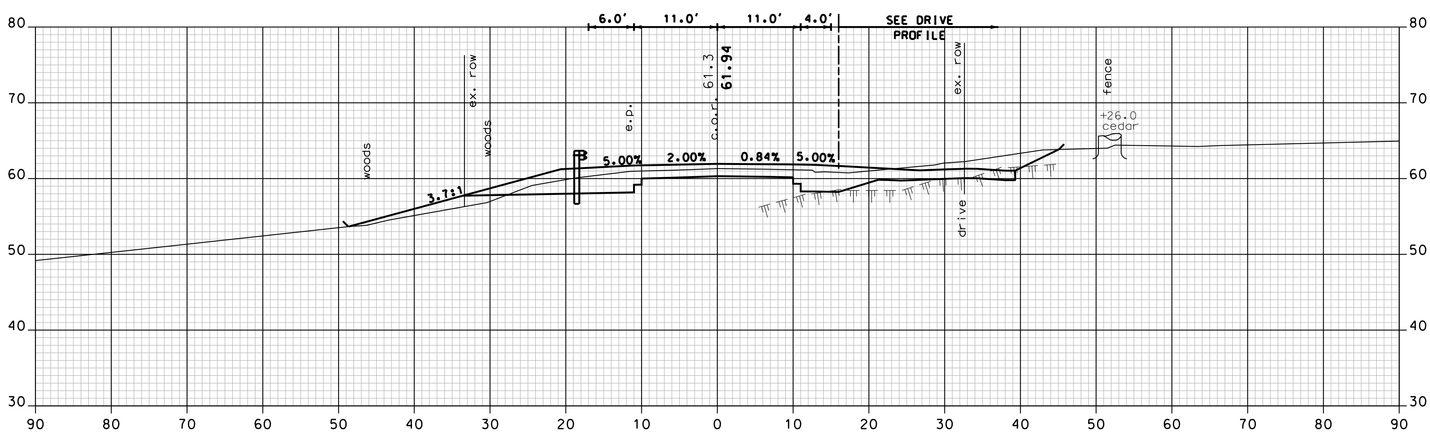
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



563+75



563+50



563+25 (DRIVE RT.)

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

NH ROUTE 108 - MCAM

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SHEET TOTALS

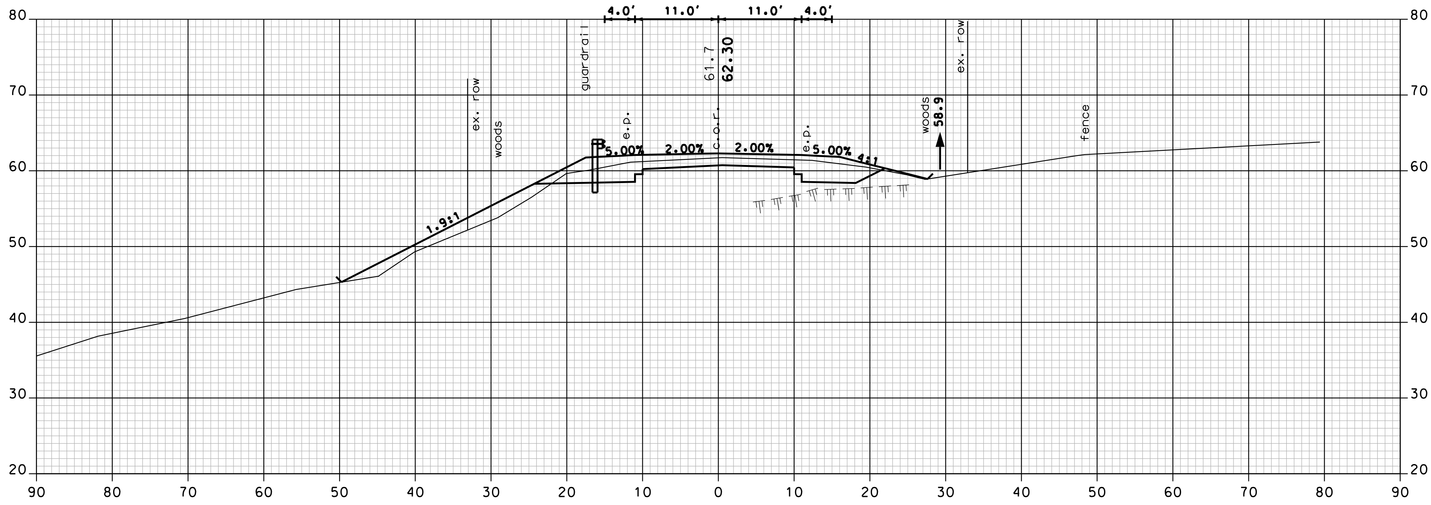
COMMON EXCAV.	218.4 C.Y.	ROCK EXCAV.	10.1 C.Y.
FILL	55.6 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	60A	119

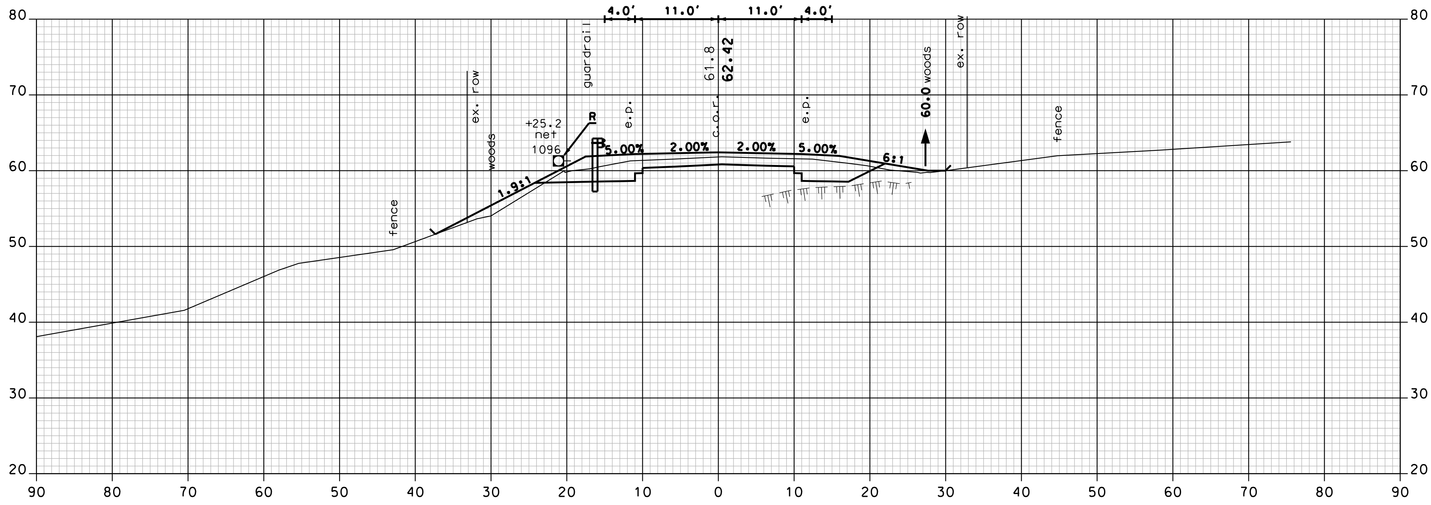
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

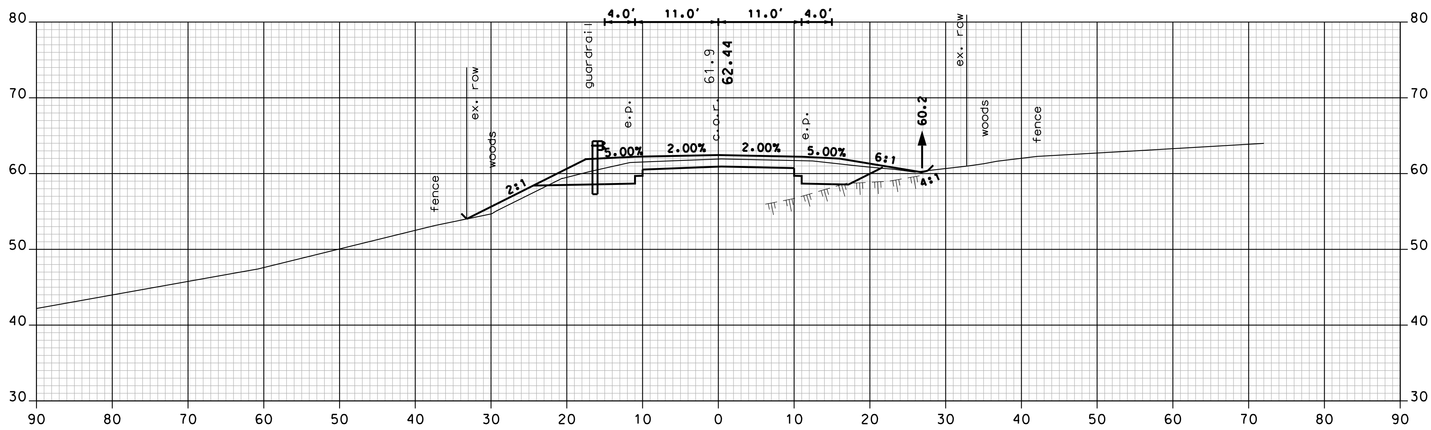
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



564+50



564+25



564+00

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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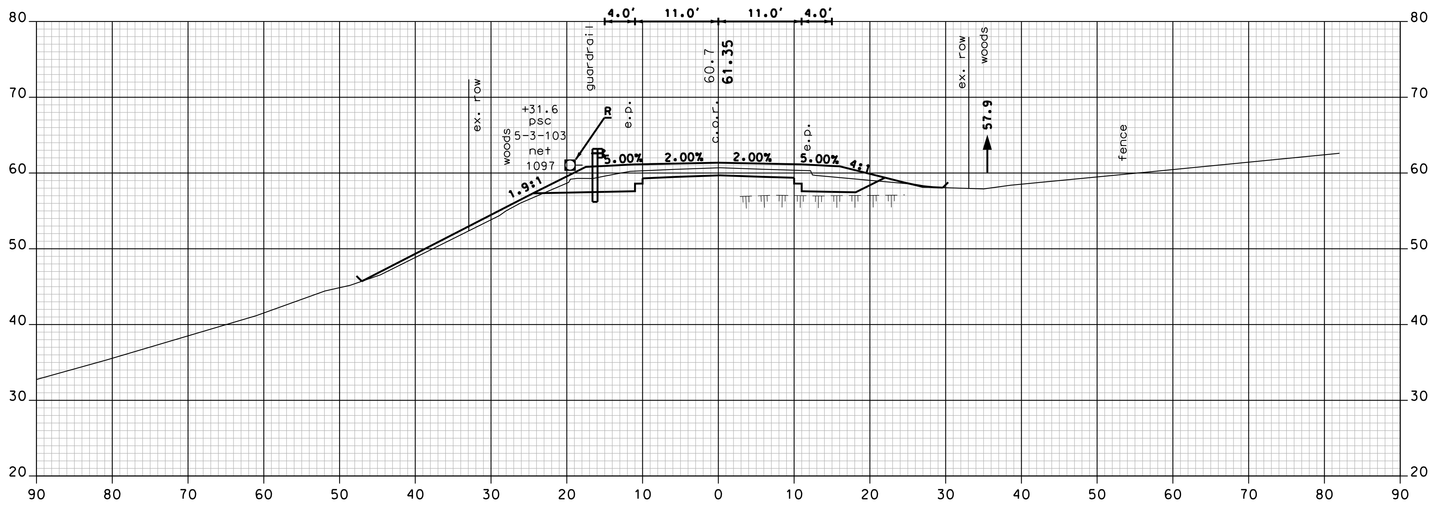
SHEET TOTALS			
COMMON EXCAV.	180.9 C.Y.	ROCK EXCAV.	0.0 C.Y.
FILL	92.8 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	61A	119

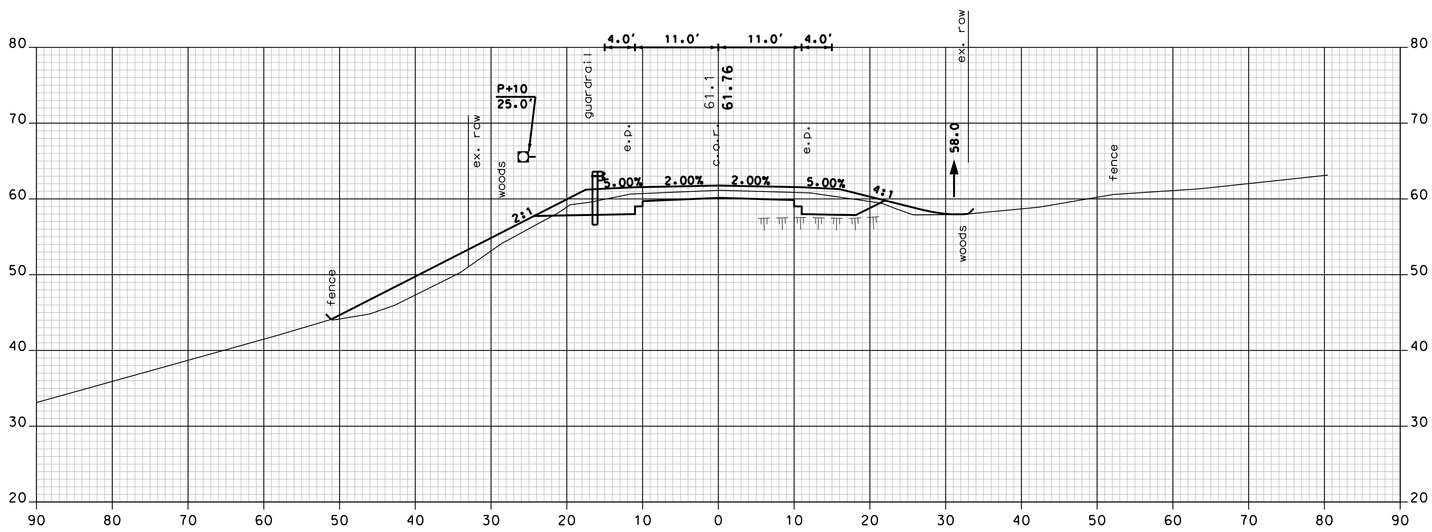
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

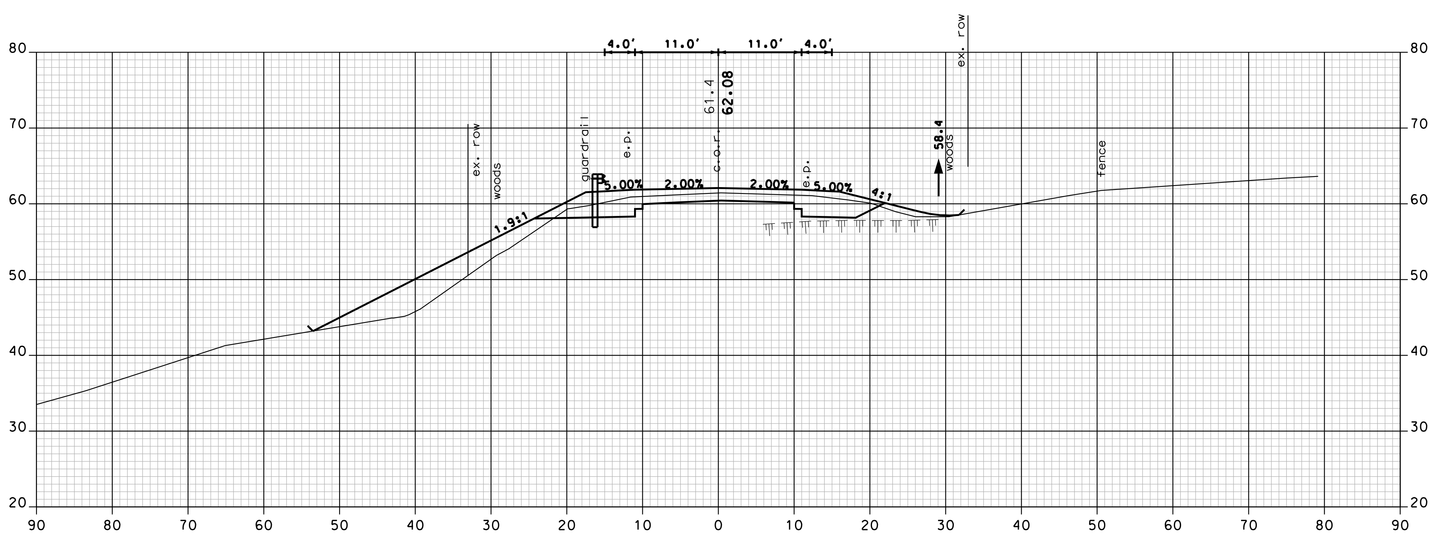
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



565+25



565+00



564+75

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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NH ROUTE 108 - MCAM

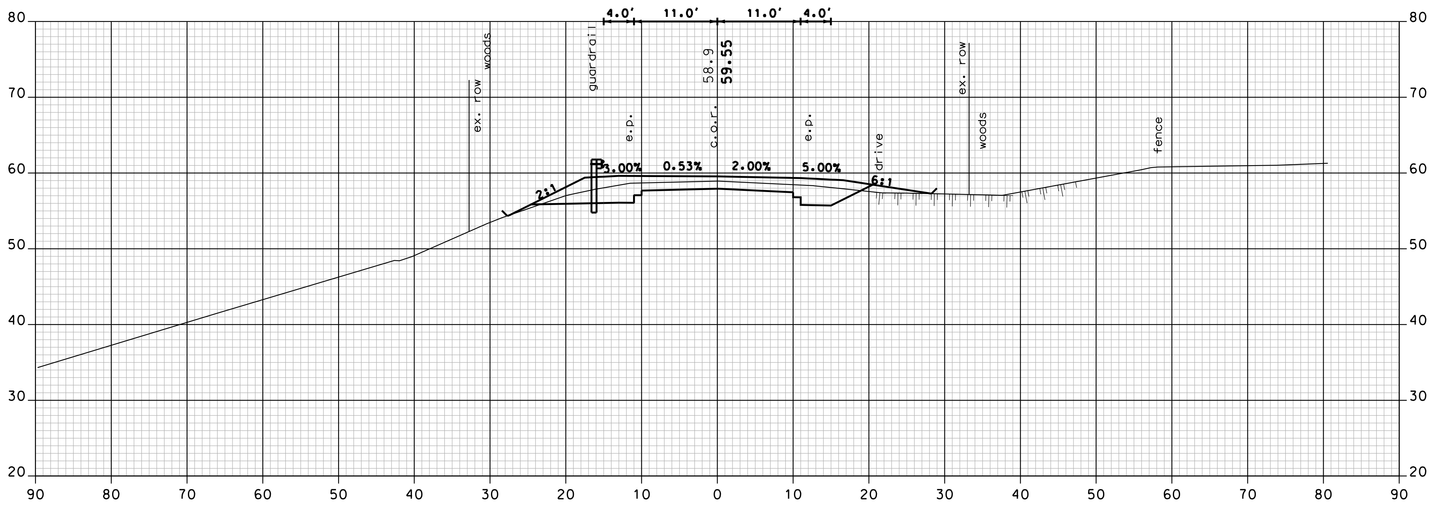
SHEET TOTALS			
COMMON EXCAV.	170.8 C.Y.	ROCK EXCAV.	1.8 C.Y.
FILL	106.0 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	62A	119

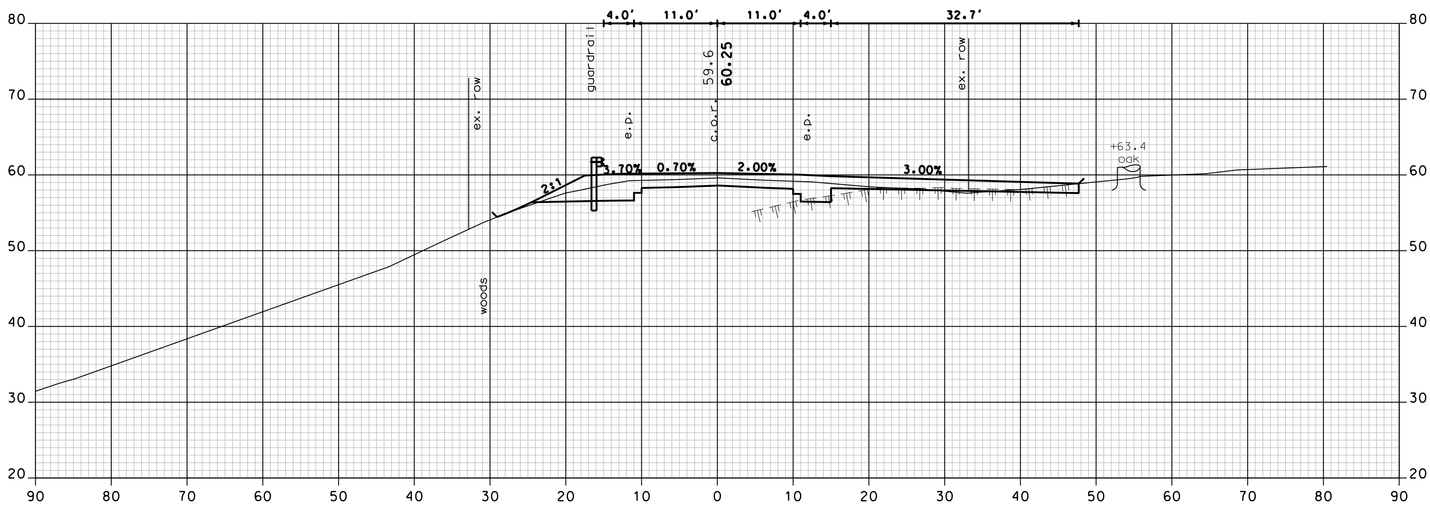
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

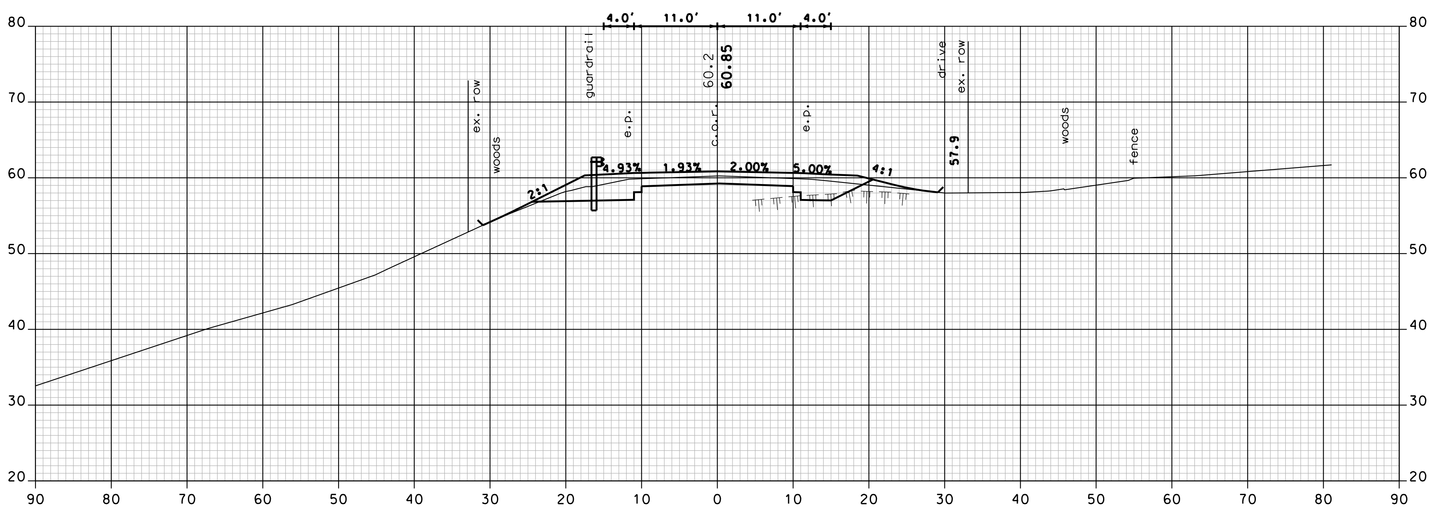
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



566+00



565+75 (DRIVE RT.)



565+50

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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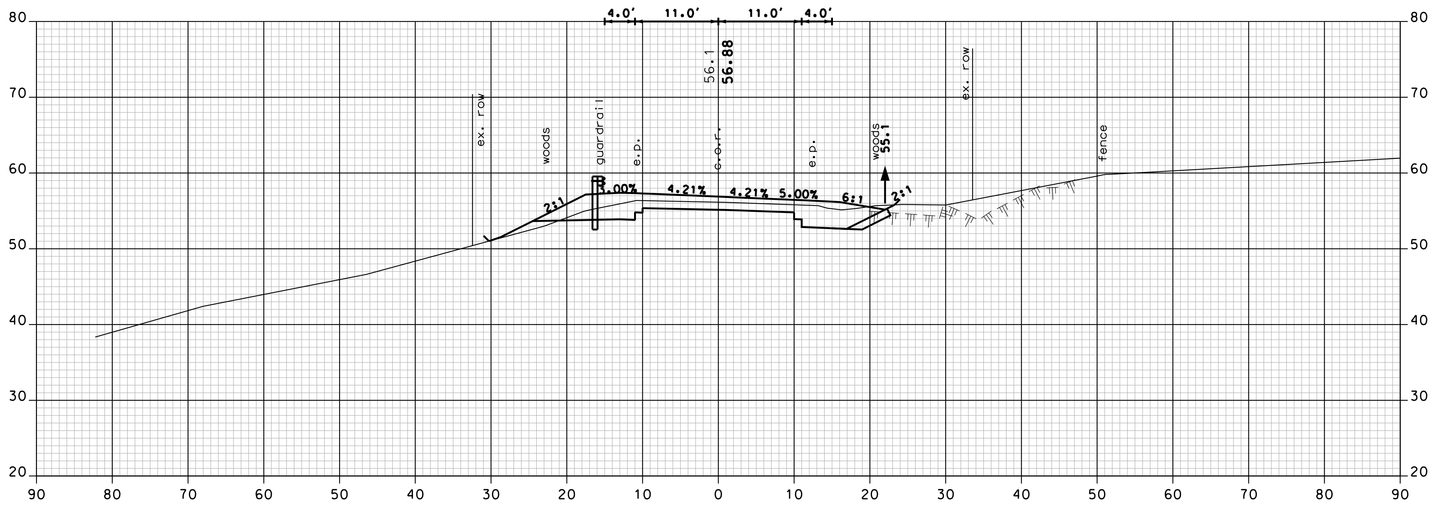
SHEET TOTALS			
COMMON EXCAV. 156.5 C.Y.		ROCK EXCAV. 3.7 C.Y.	
FILL 10.0 C.Y.		MUCK EXCAV. 0.0 C.Y.	
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	63A	119

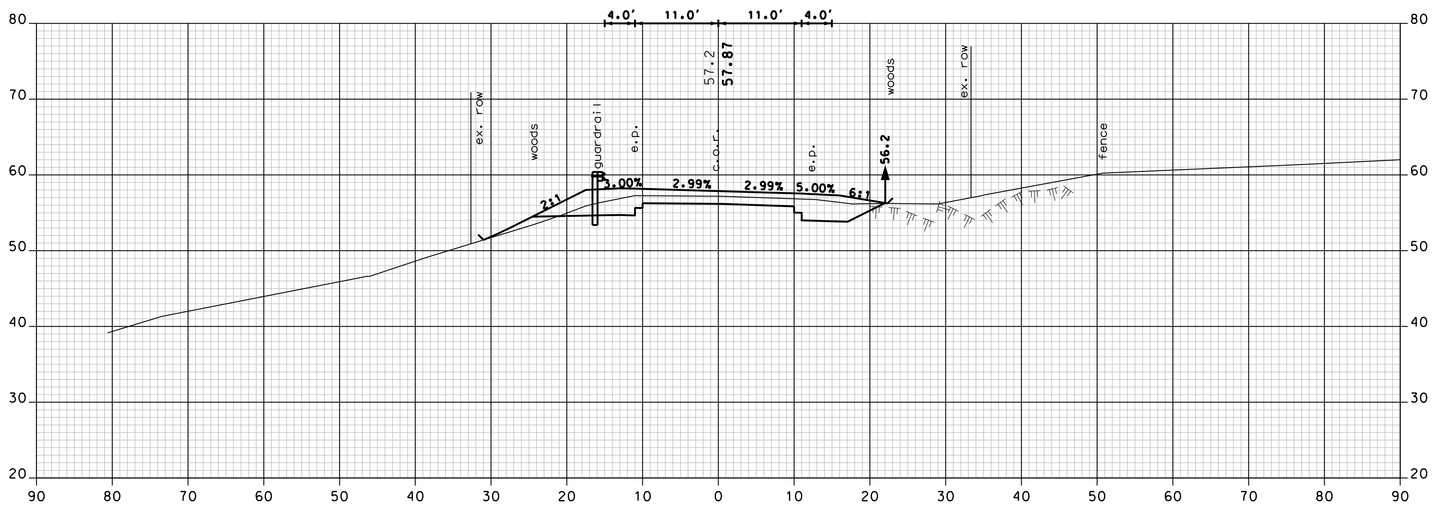
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

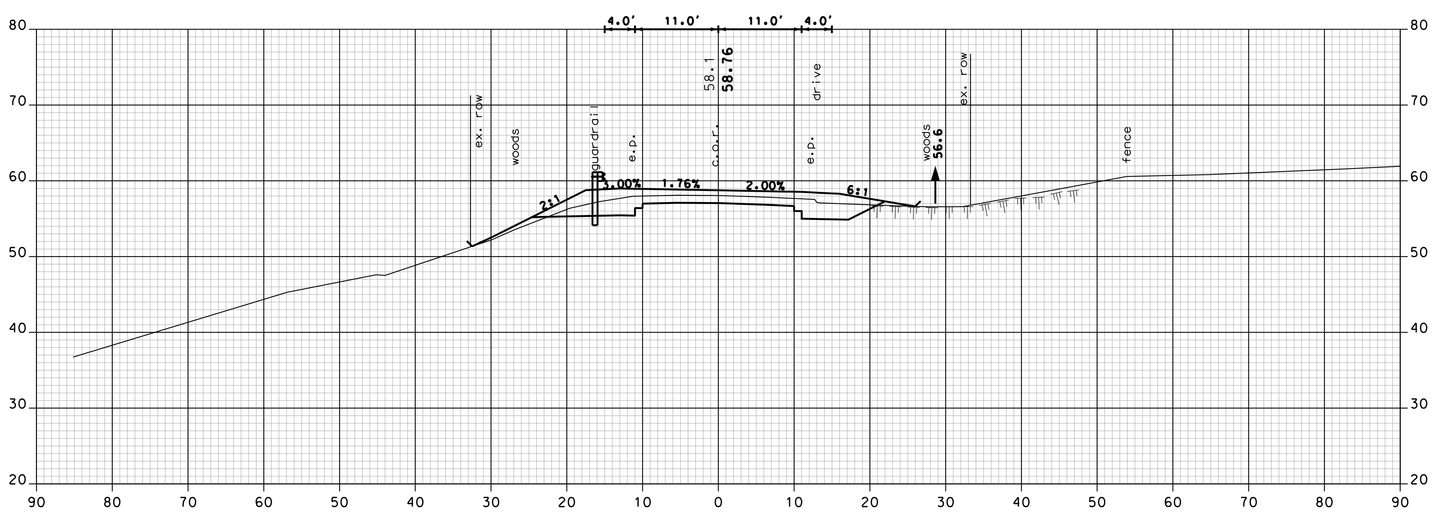
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



566+75



566+50



566+25

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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SHEET TOTALS

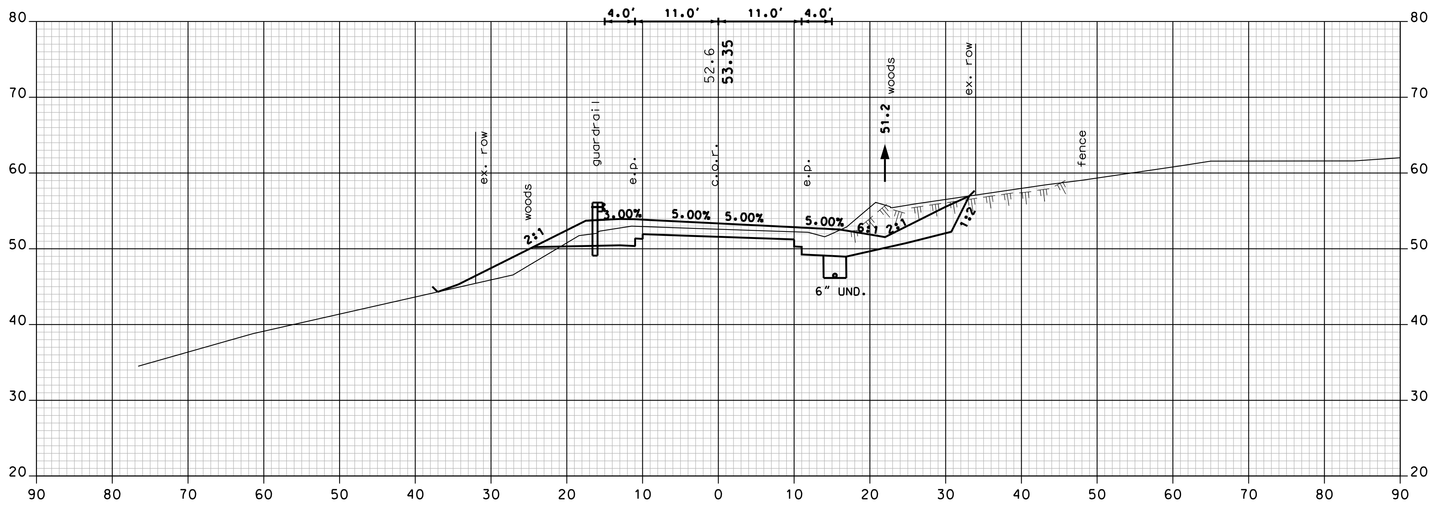
COMMON EXCAV.	171.2 C.Y.	ROCK EXCAV.	2.6 C.Y.
FILL	12.3 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	64A	119

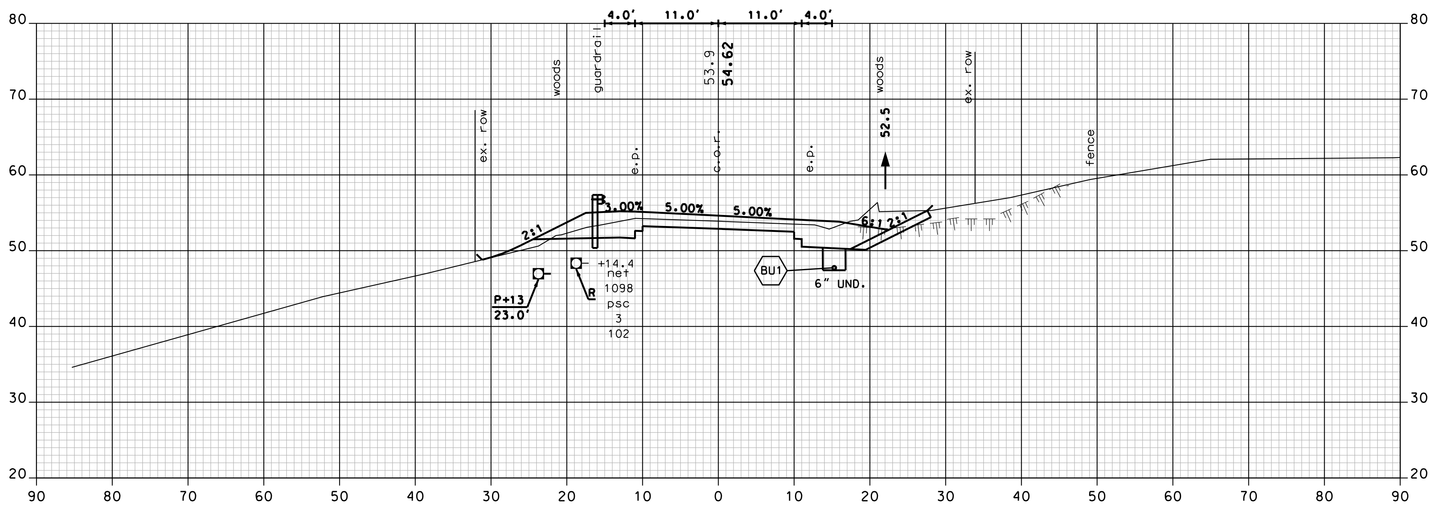
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

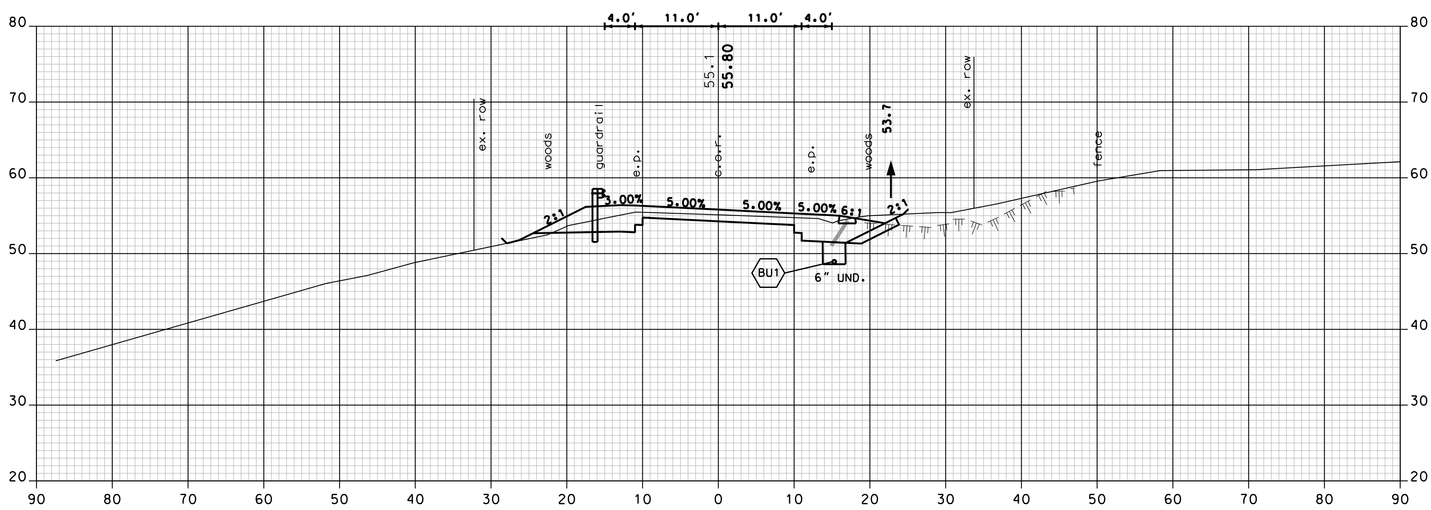
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



567+50



567+25



567+00

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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SHEET TOTALS

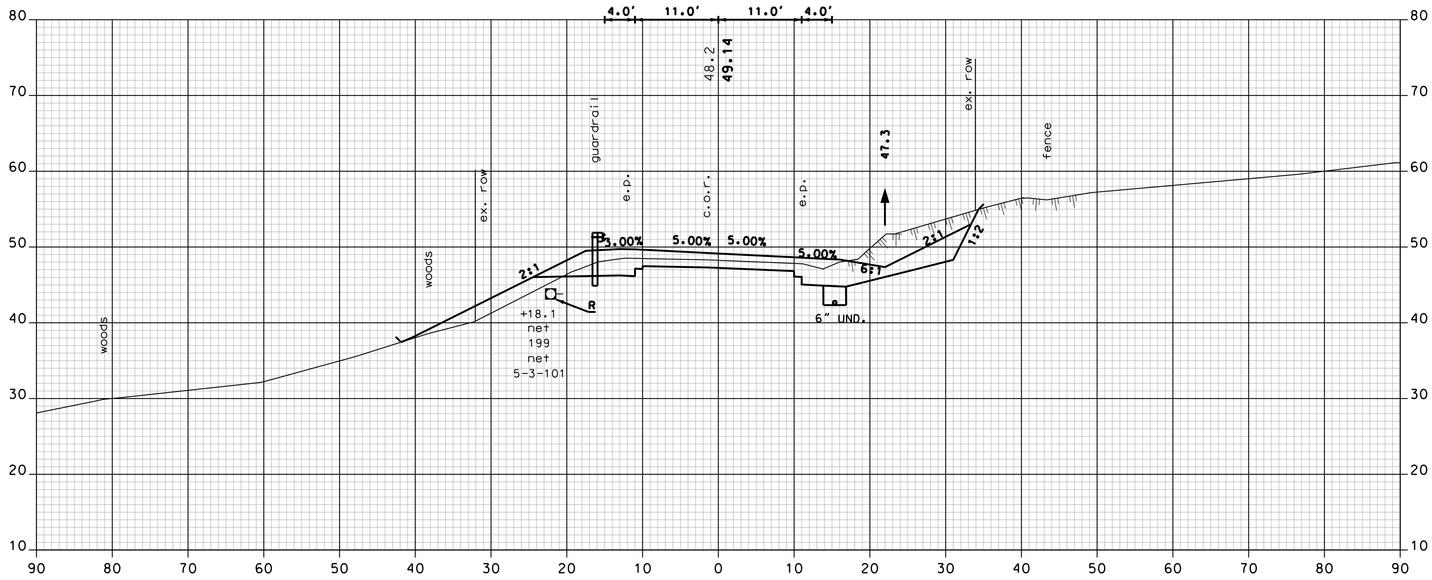
COMMON EXCAV.	195.4 C.Y.	ROCK EXCAV.	104.3 C.Y.
FILL	69.9 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	65A	119

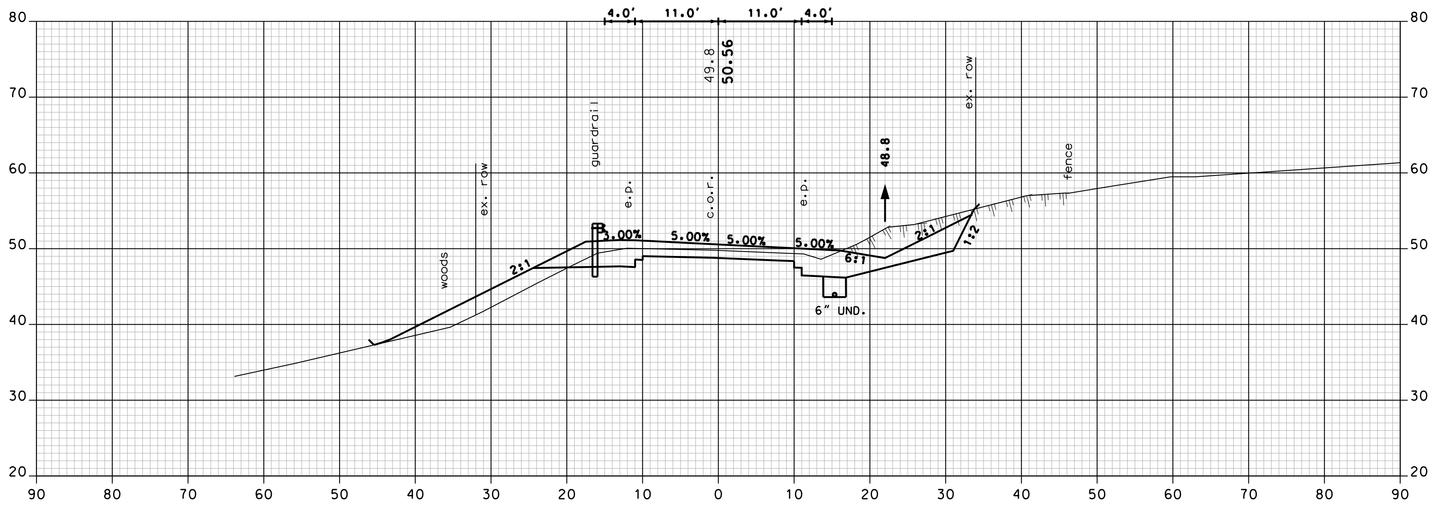
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

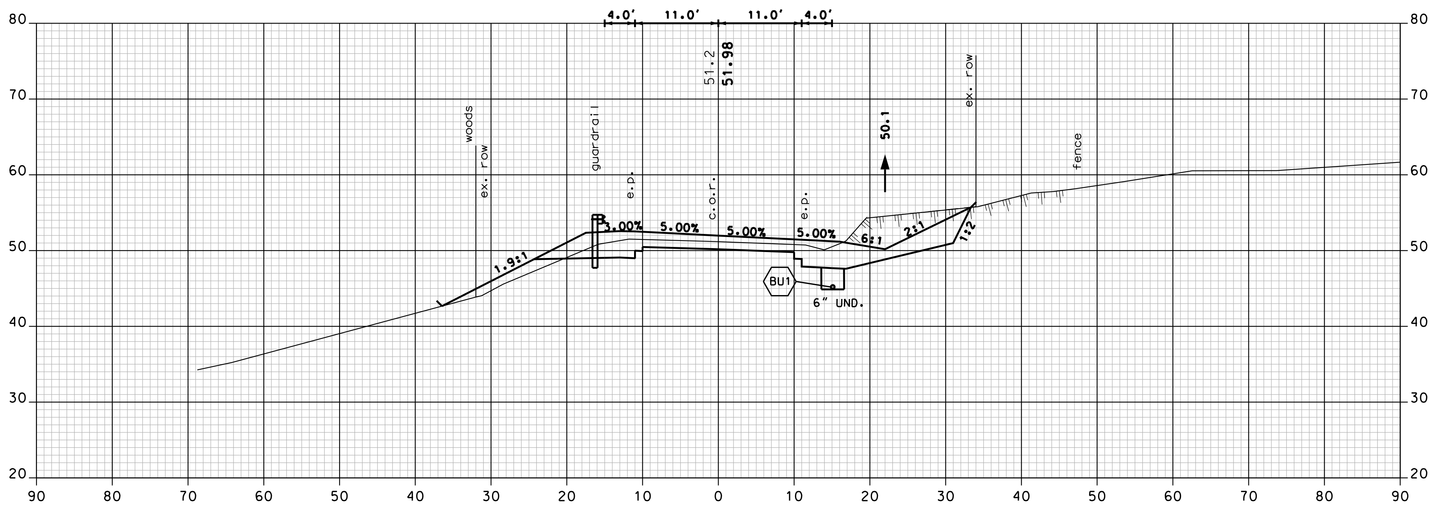
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



568+25



568+00



567+75

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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SHEET TOTALS

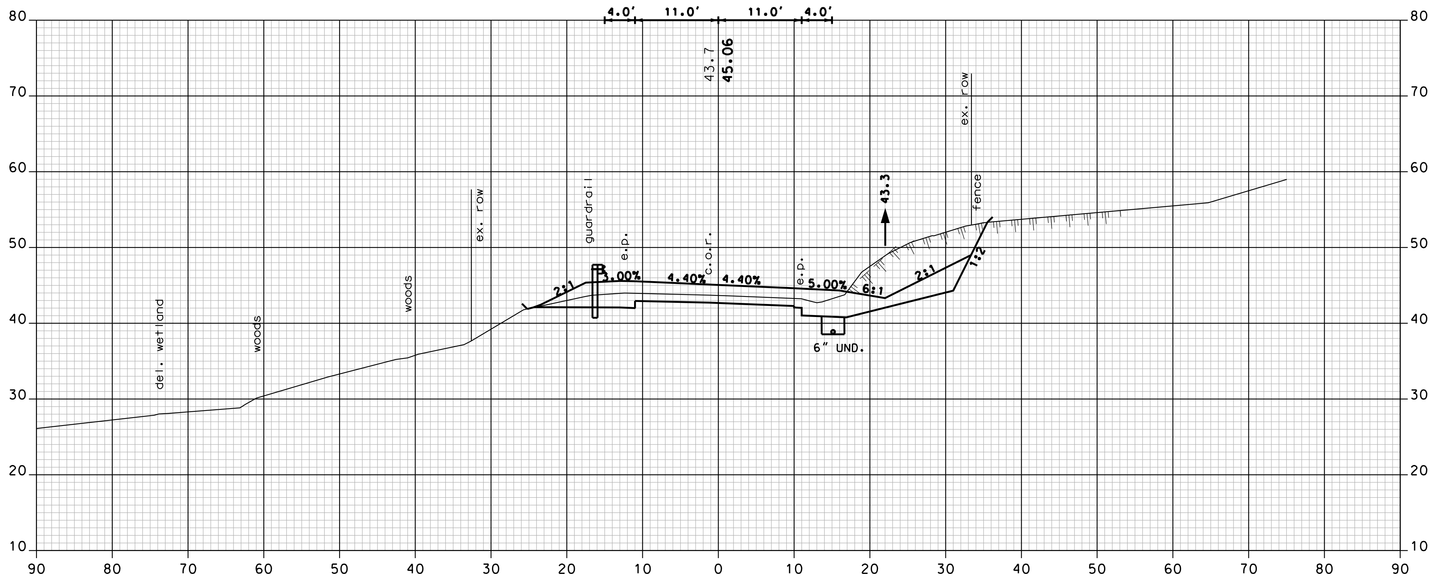
COMMON EXCAV.	149.9 C.Y.	ROCK EXCAV.	221.6 C.Y.
FILL	146.6 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	66A	119

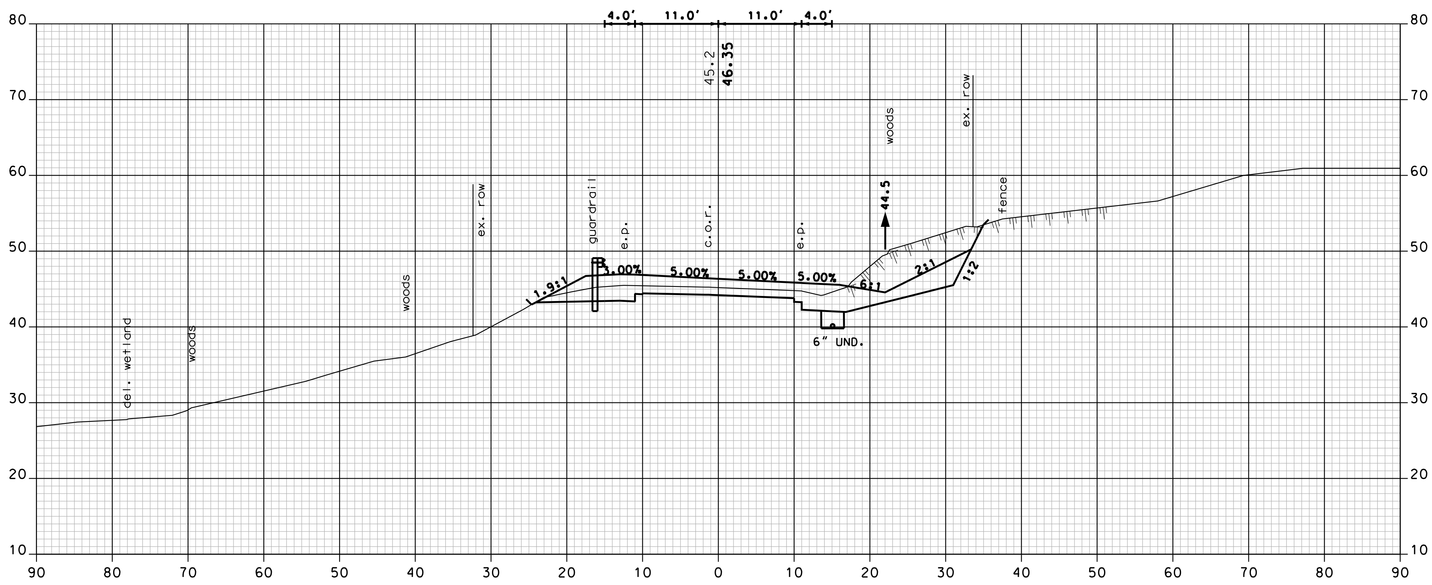
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

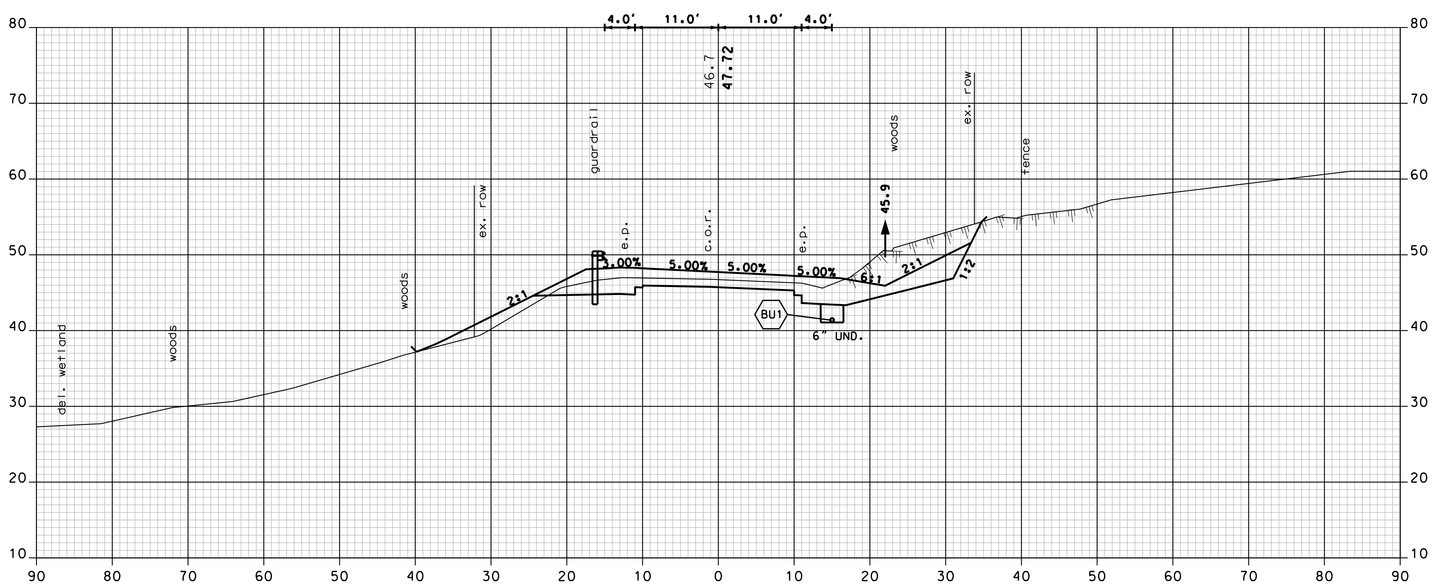
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



569+00



568+75



568+50

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

NH ROUTE 108 - MCAM

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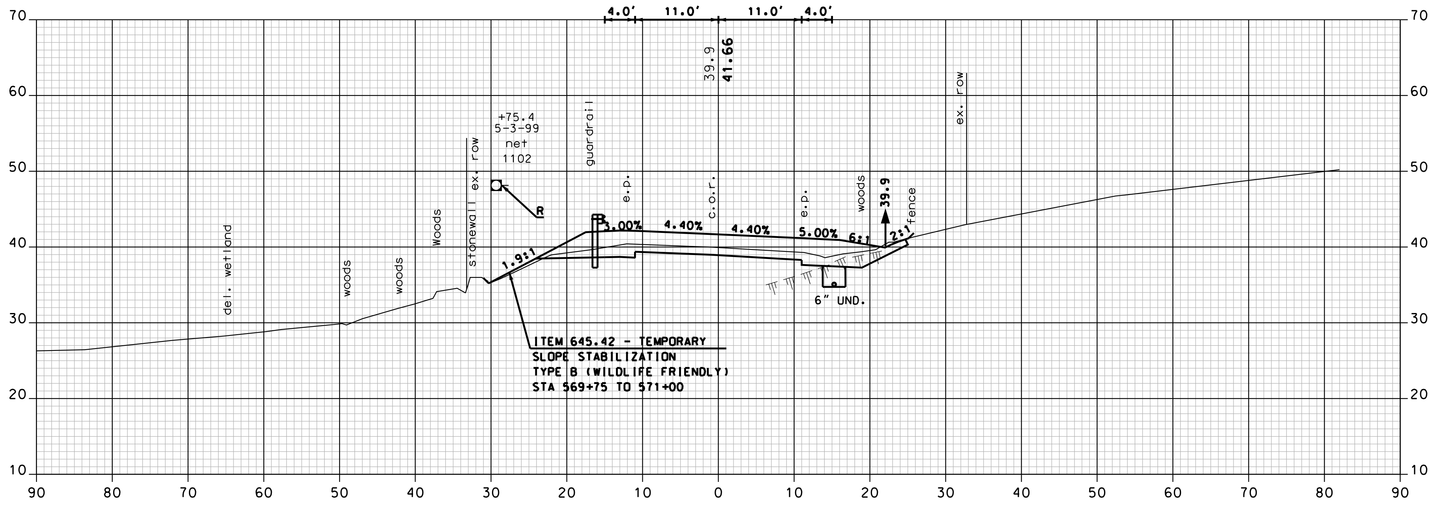
SHEET TOTALS			
COMMON EXCAV.	148.6 C.Y.	ROCK EXCAV.	285.4 C.Y.
FILL	74.6 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	67A	119

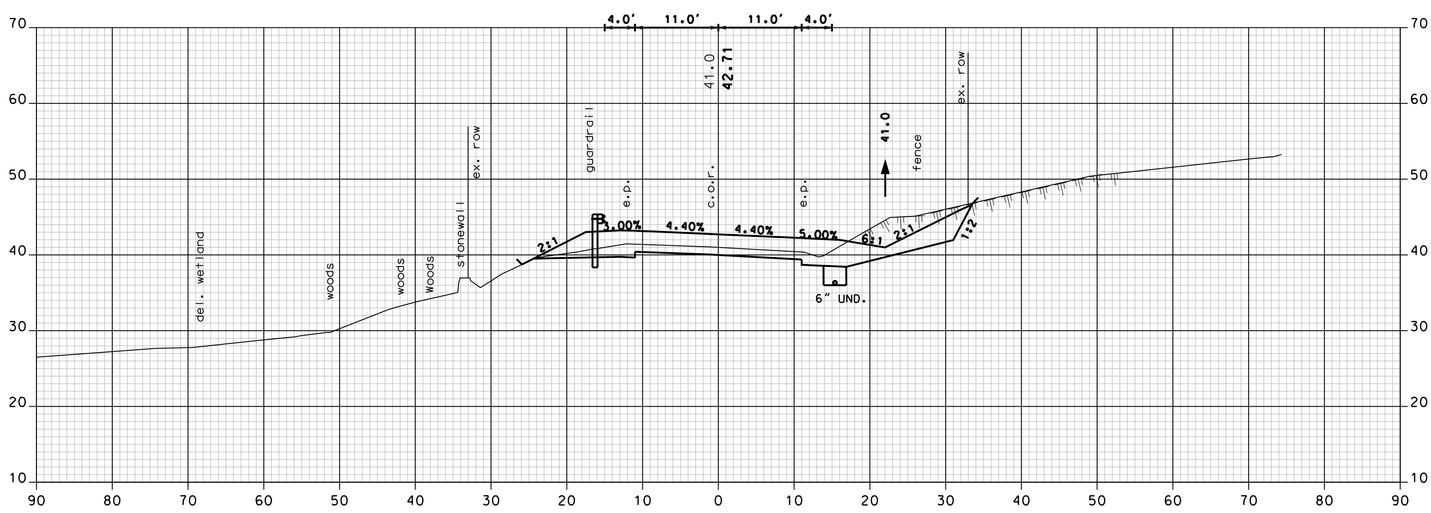
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

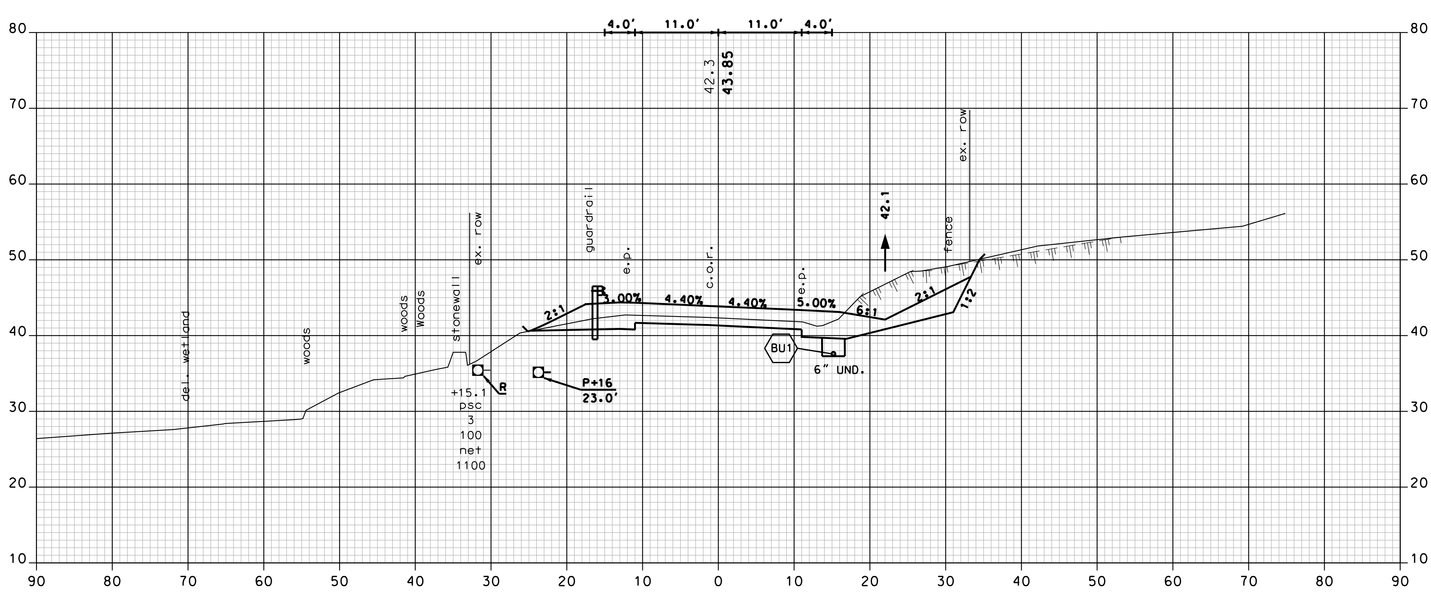
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



569+75



569+50



569+25

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

NH ROUTE 108 - MCAM

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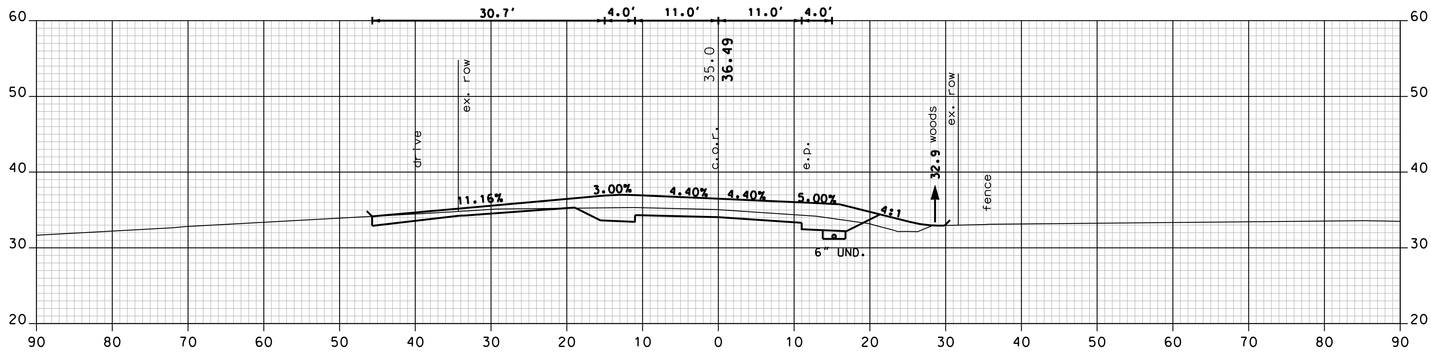
SHEET TOTALS			
COMMON EXCAV.	125.7 C.Y.	ROCK EXCAV.	115.5 C.Y.
FILL	38.0 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	68A	119

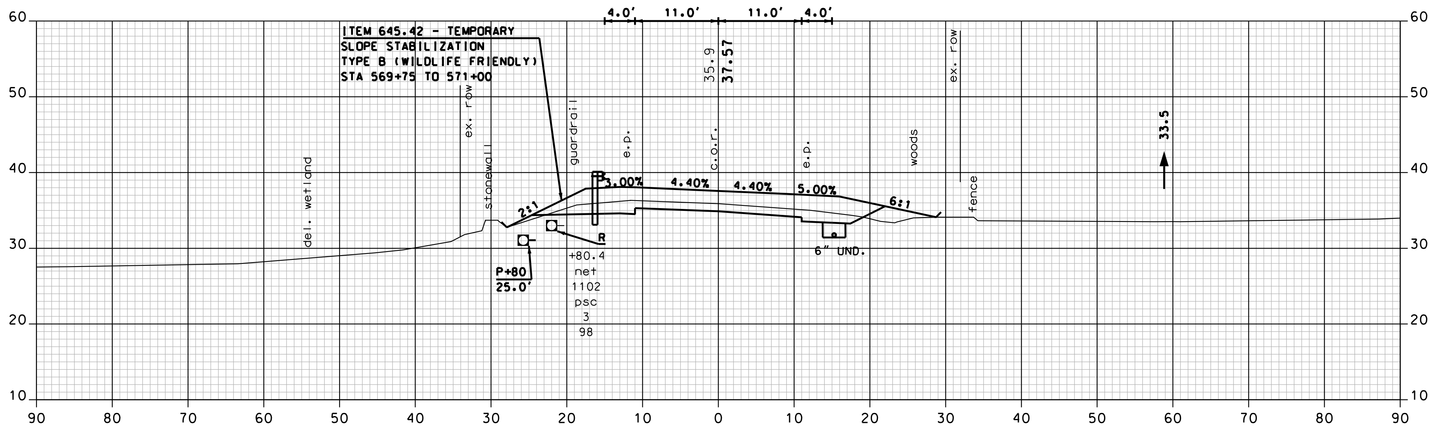
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

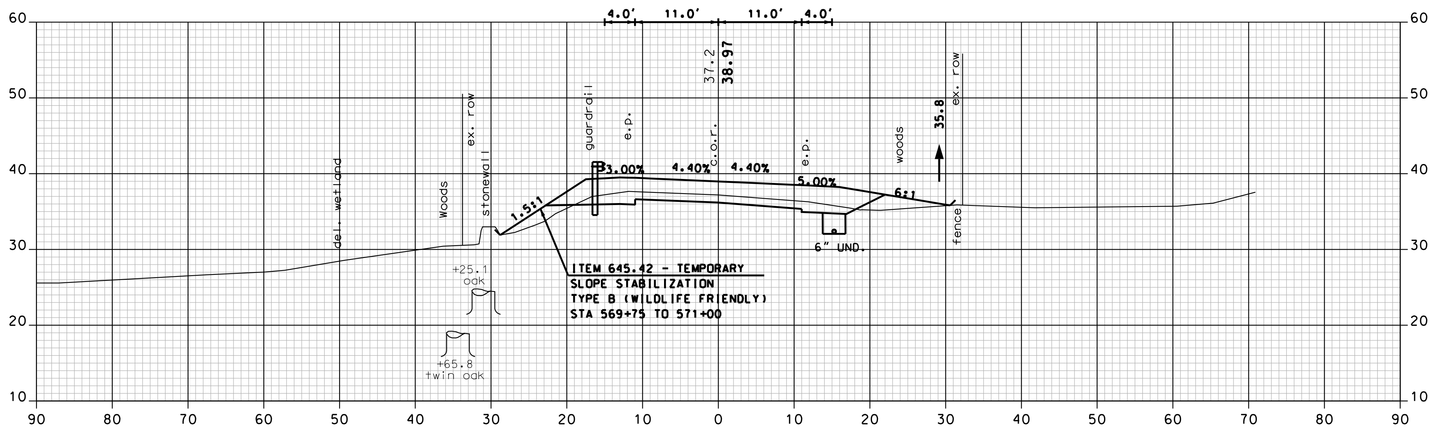
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



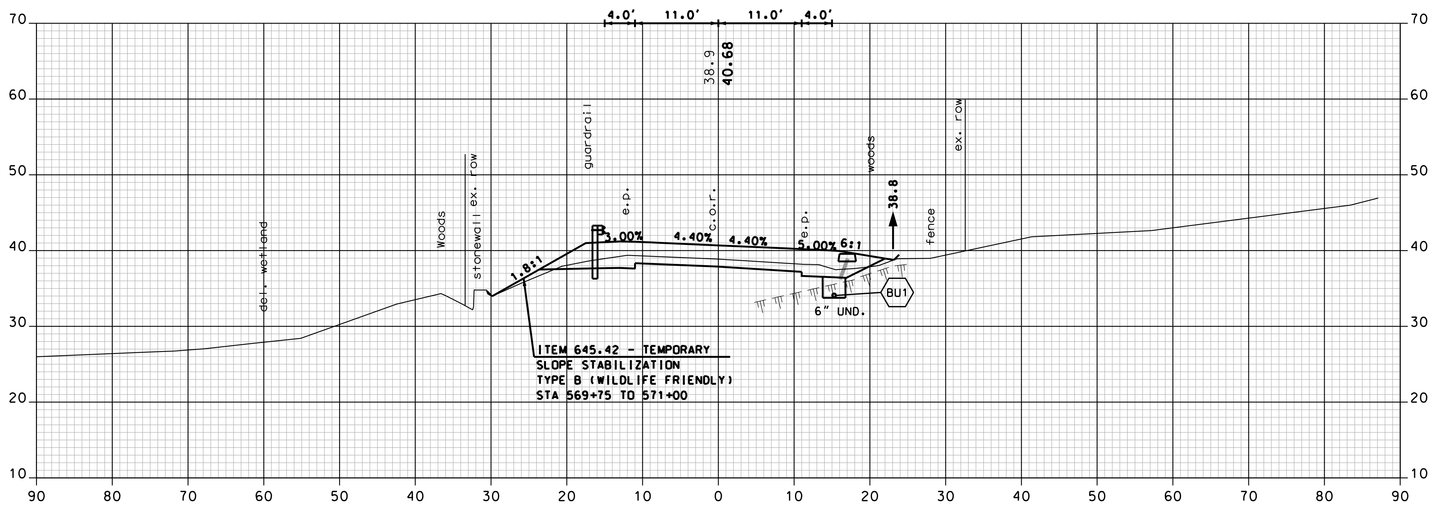
571+50 (DRIVE LT.)



571+00



570+50



570+00

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

NH ROUTE 108 - MCAM

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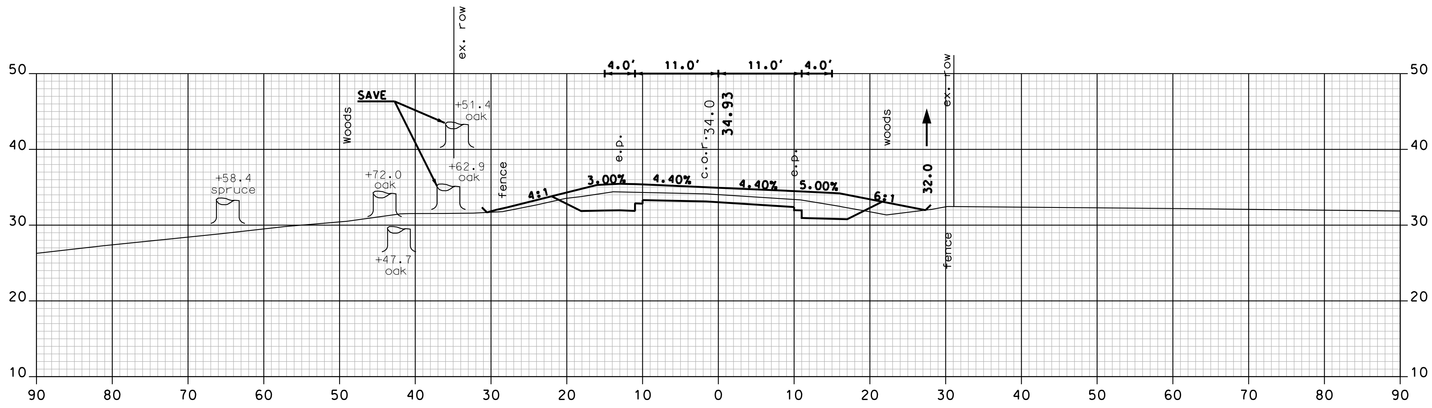
SHEET TOTALS			
COMMON EXCAV. 320.1 C.Y.		ROCK EXCAV. 0.0 C.Y.	
FILL 104.3 C.Y.		MUCK EXCAV. 0.0 C.Y.	
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	69A	119

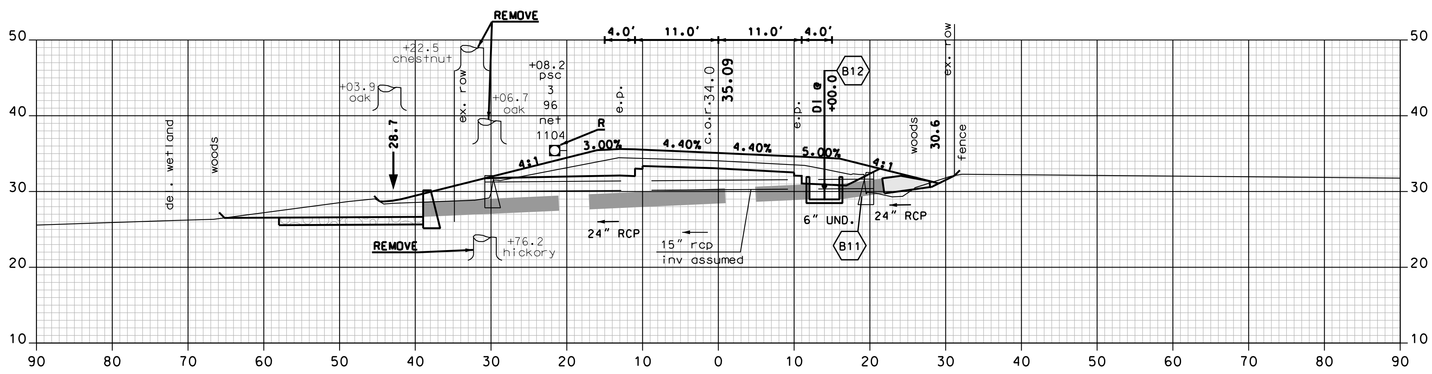
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

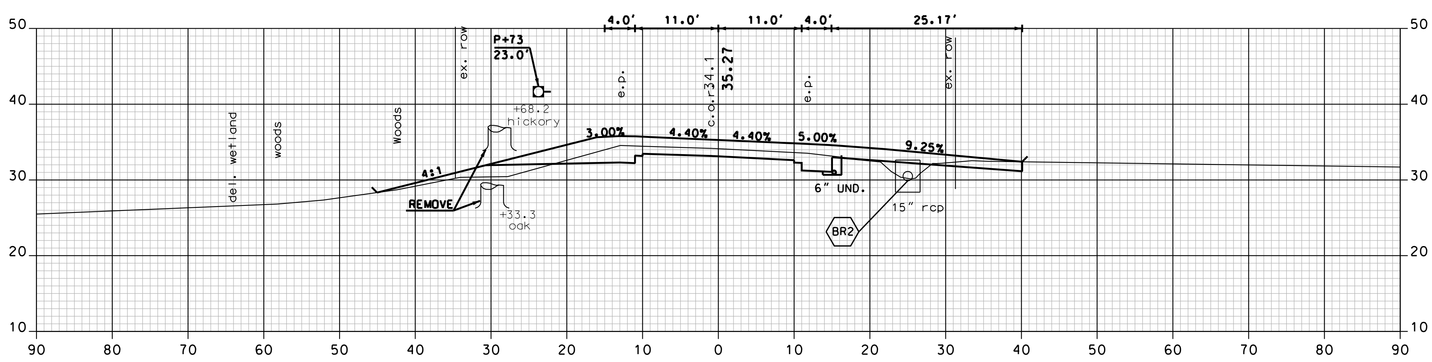
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



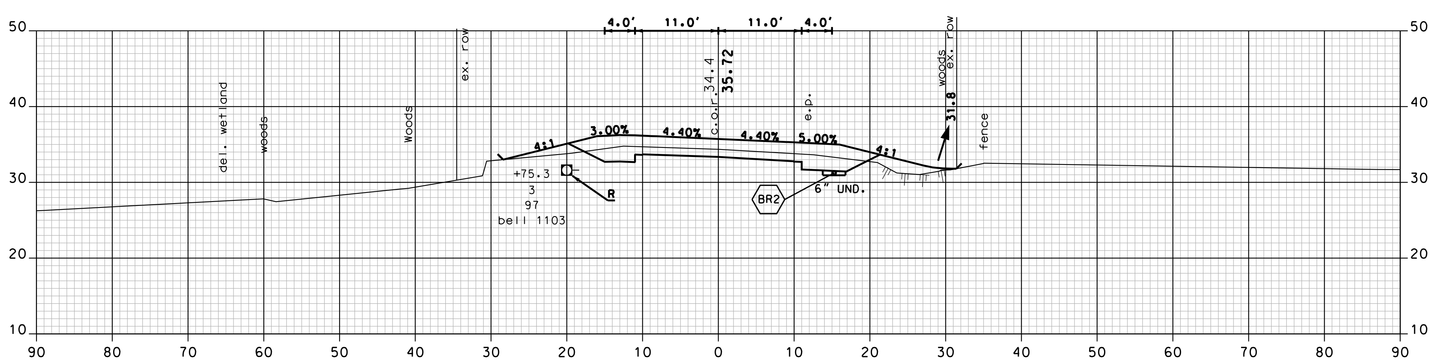
573+50



573+00



572+50 (DRIVE RT.)



572+00

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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NH ROUTE 108 - MCAM

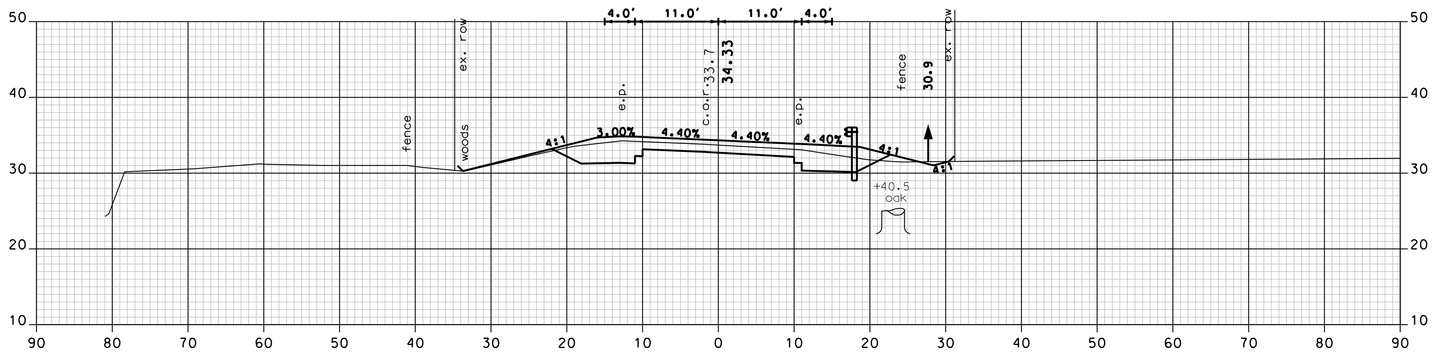
SHEET TOTALS			
COMMON EXCAV.	408.6 C.Y.	ROCK EXCAV.	0.0 C.Y.
FILL	162.9 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	70A	119

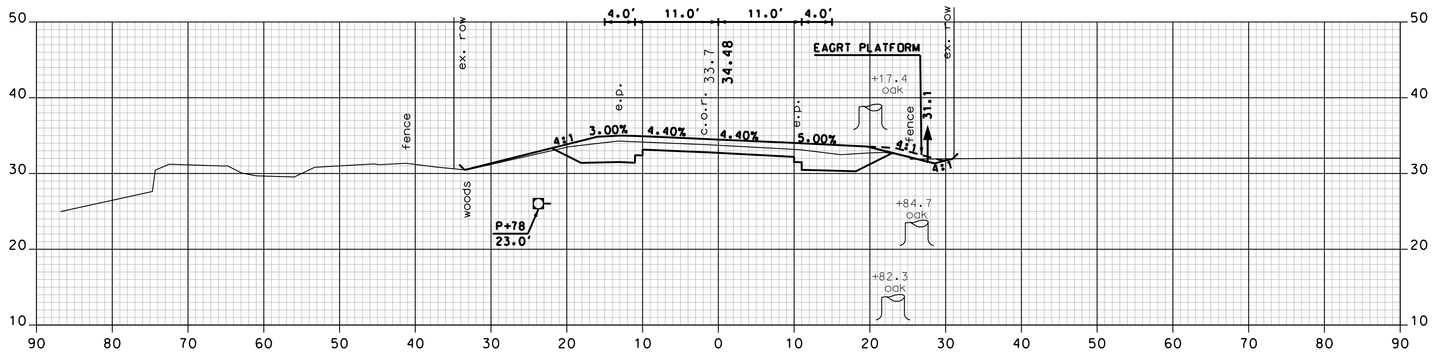
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

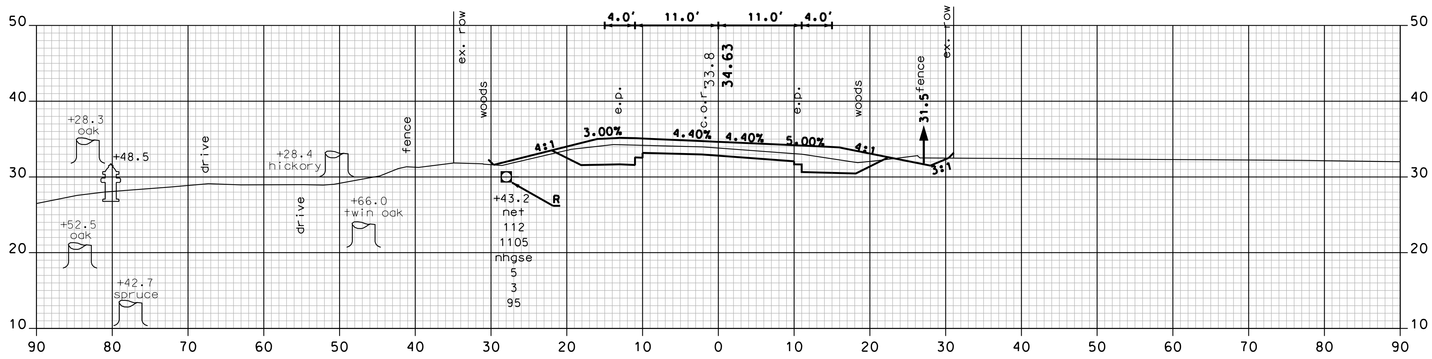
NUMBER	DATE	STATION	STATION	DESCRIPTION
1	6/5/2015	575+50	618+50	PROFILE REVISION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



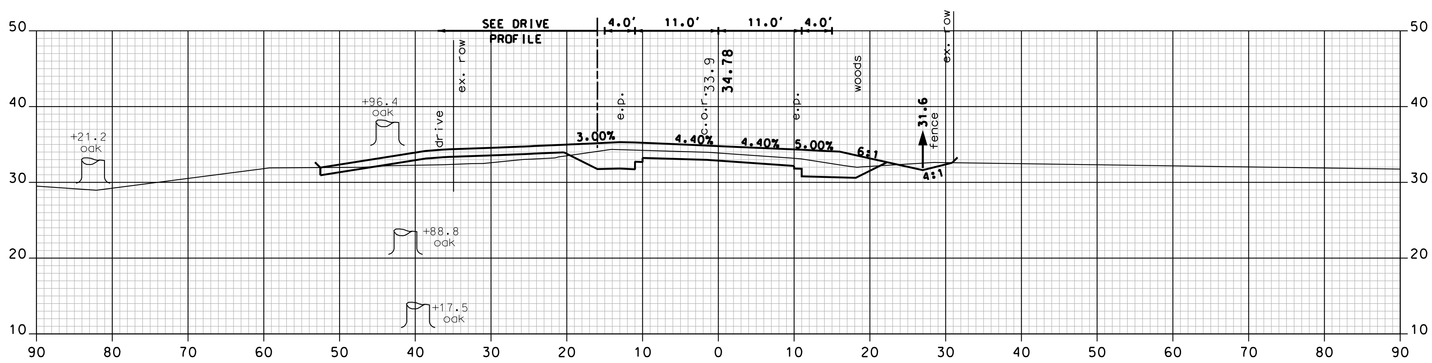
575+50



575+00



574+50



574+00 (DRIVE LT.)

1 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 575+50 TO 618+50.

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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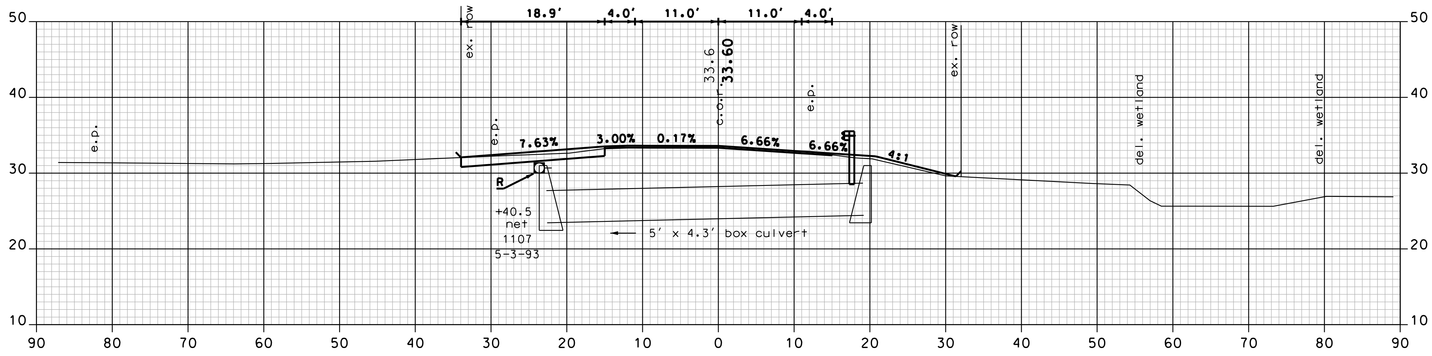
SHEET TOTALS			
COMMON EXCAV.	500.5 C.Y.	ROCK EXCAV.	0.0 C.Y.
FILL	51.8 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	71B	119

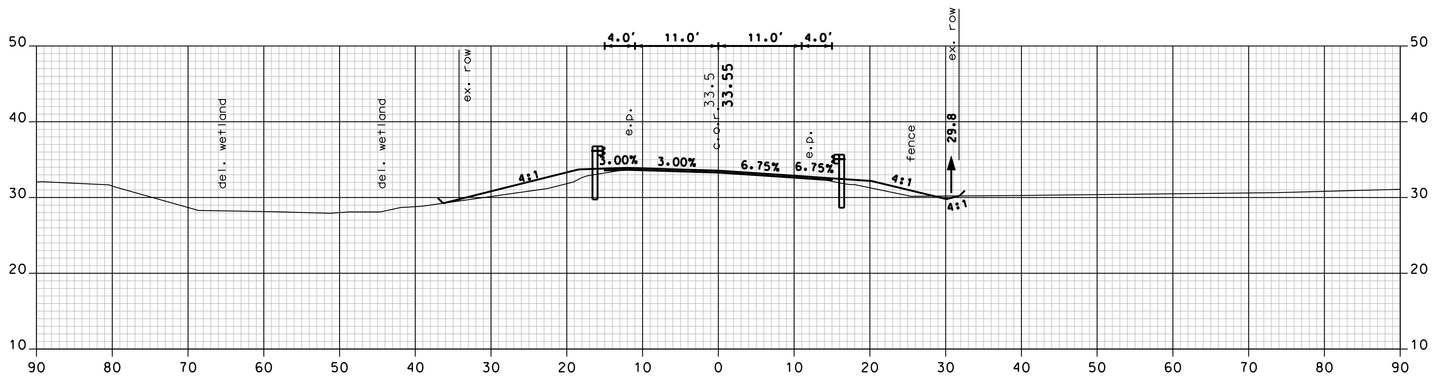
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

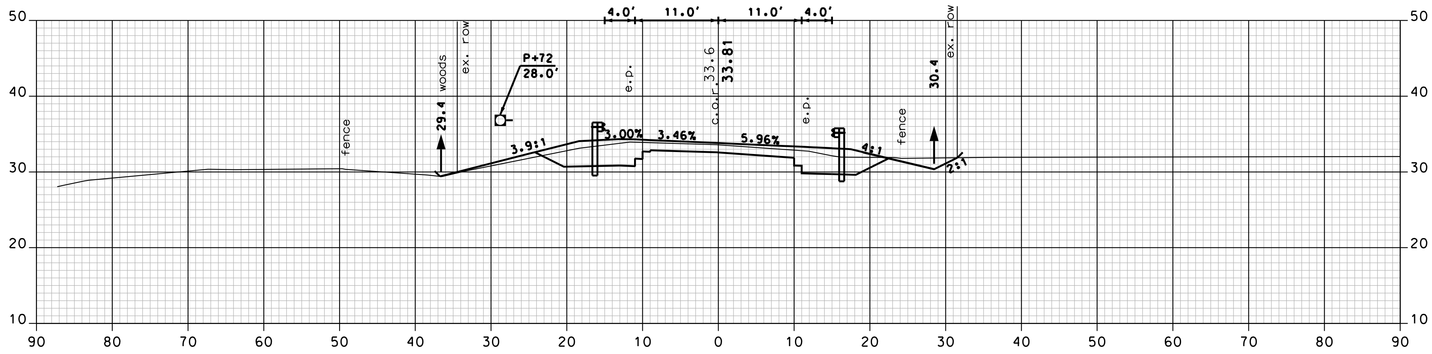
NUMBER	DATE	STATION	STATION	DESCRIPTION
1	6/5/2015	575+50	618+50	PROFILE REVISION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



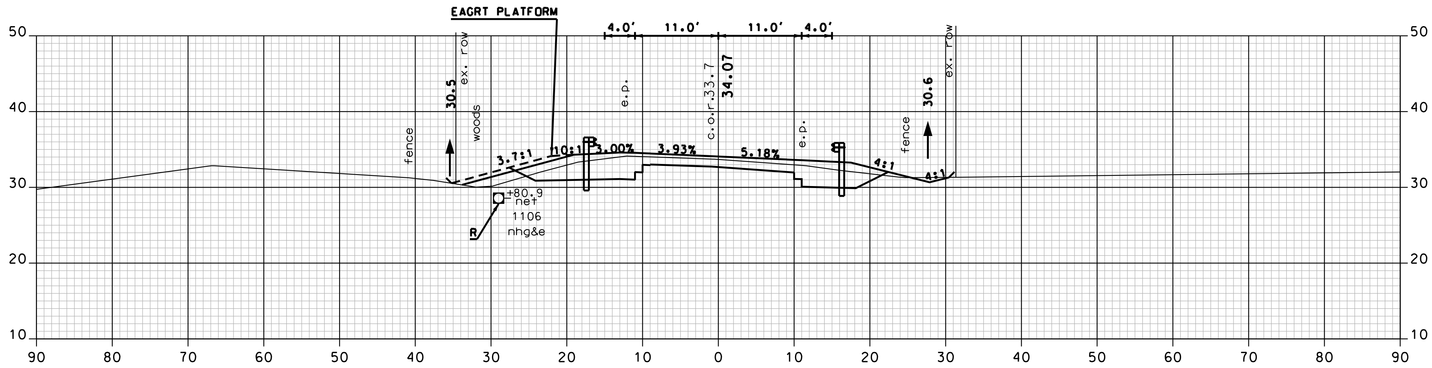
577+50 (DRIVE LT.)



577+00



576+50



576+00

1 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 575+50 TO 618+50.

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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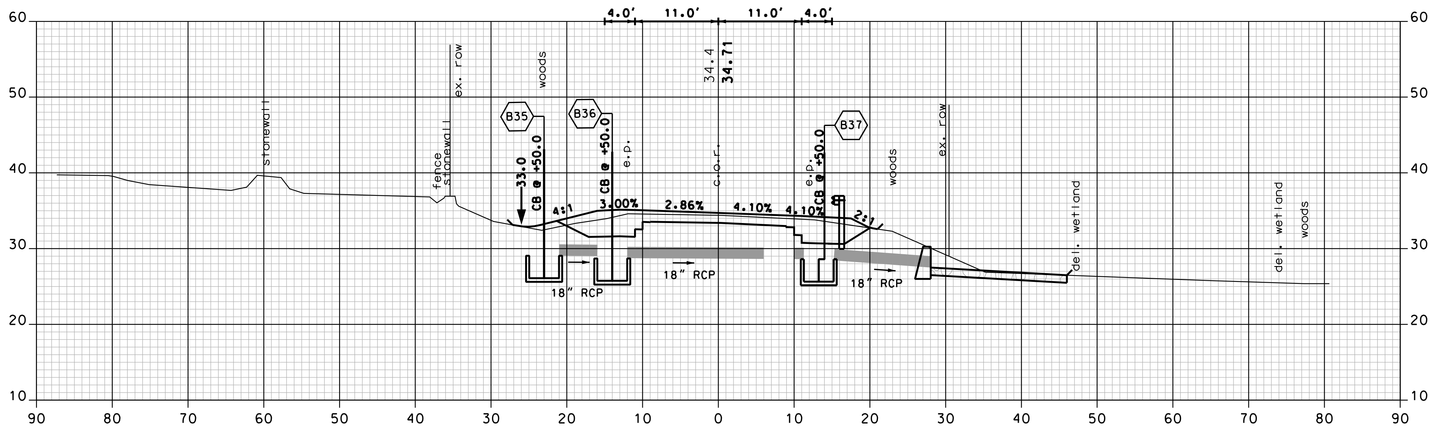
SHEET TOTALS			
COMMON EXCAV. 224.7 C.Y.		ROCK EXCAV. 0.0 C.Y.	
FILL 82.0 C.Y.		MUCK EXCAV. 0.0 C.Y.	
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	72B	119

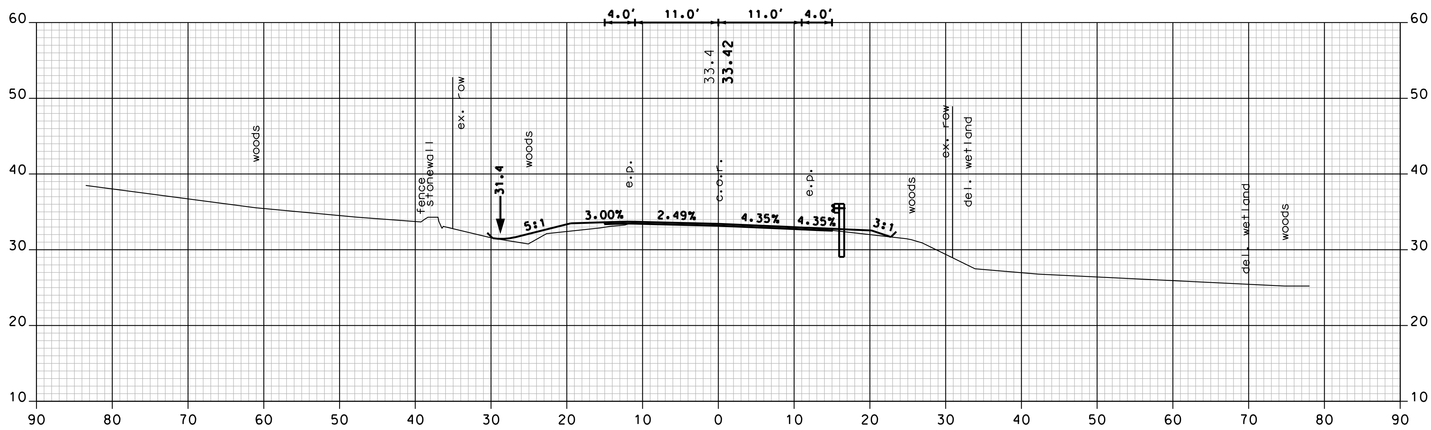
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

NUMBER	DATE	STATION	STATION	DESCRIPTION
1	6/5/2015	575+50	618+50	PROFILE REVISION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00

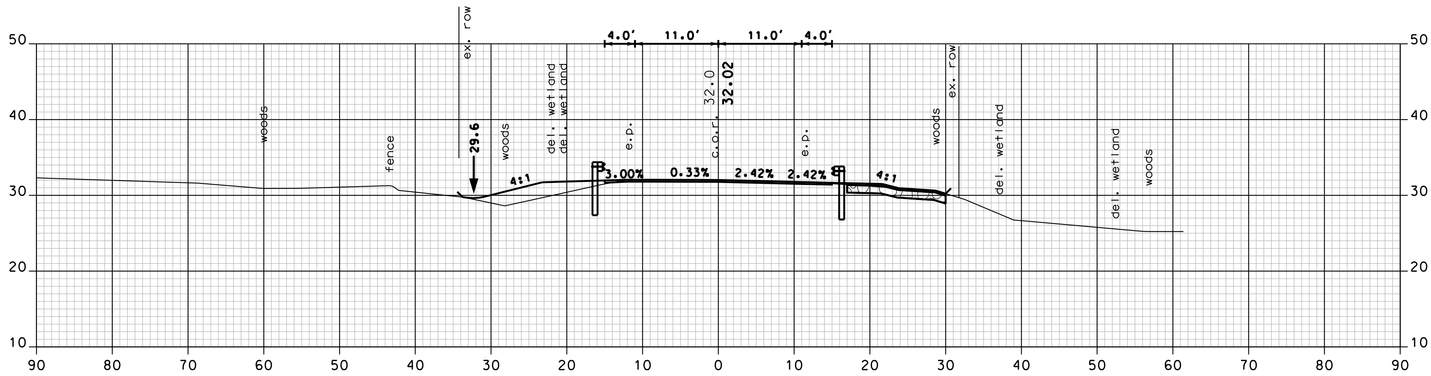


617+50



617+00

616+50



616+00

1 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 575+50 TO 618+50.

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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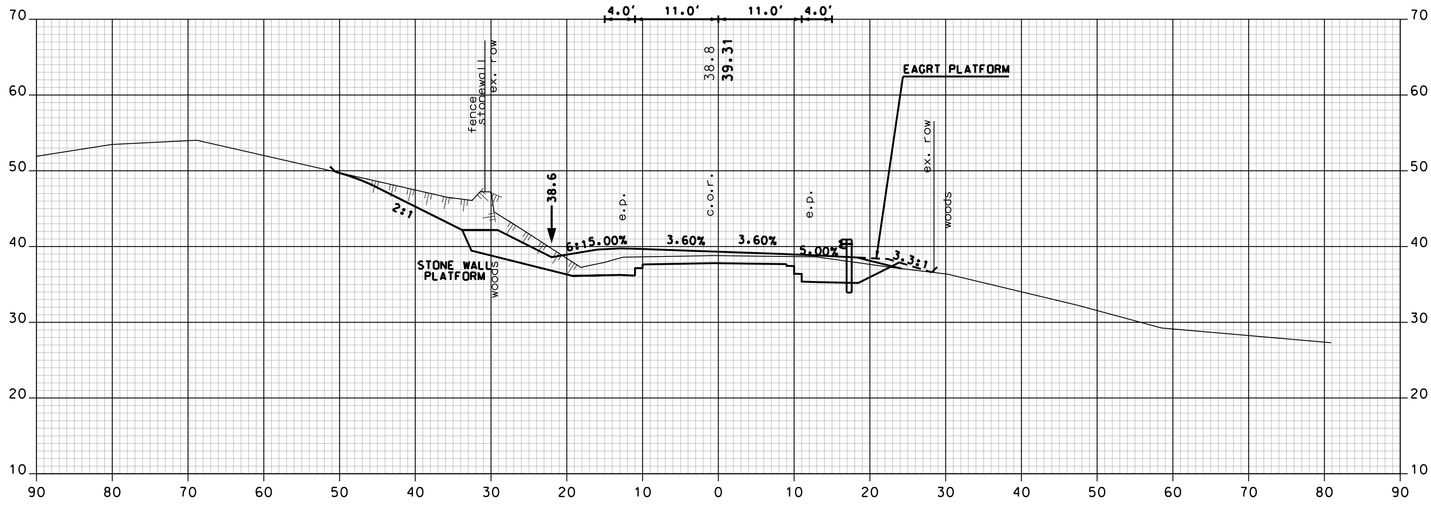
SHEET TOTALS			
COMMON EXCAV.	216.7 C.Y.	ROCK EXCAV.	0.0 C.Y.
FILL	69.0 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	93B	119

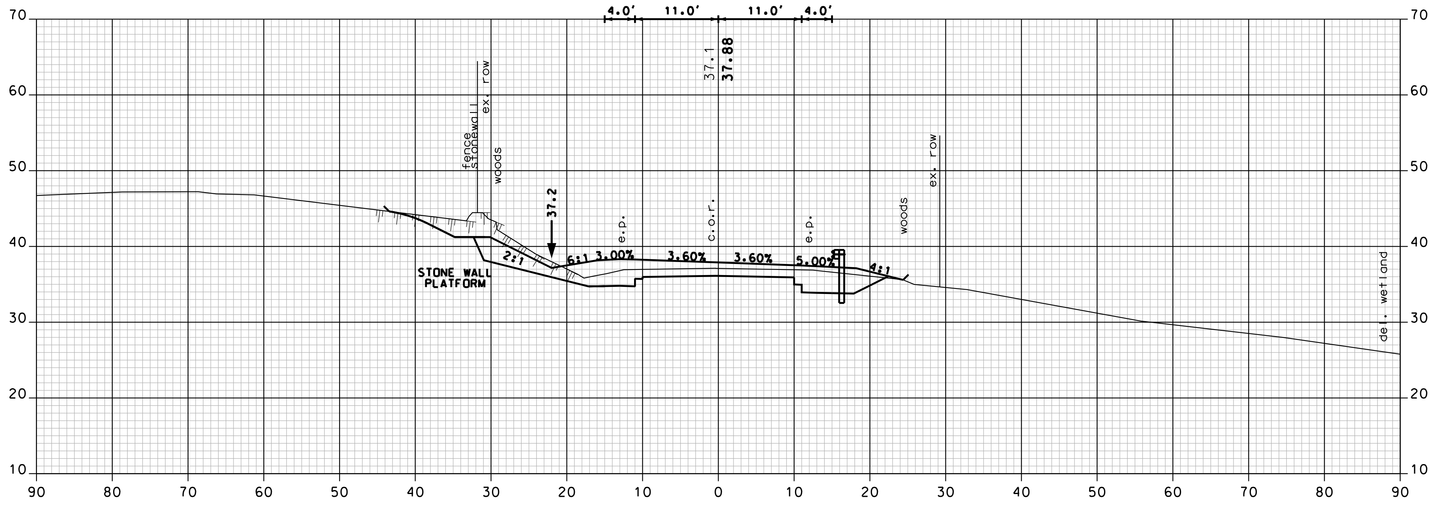
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

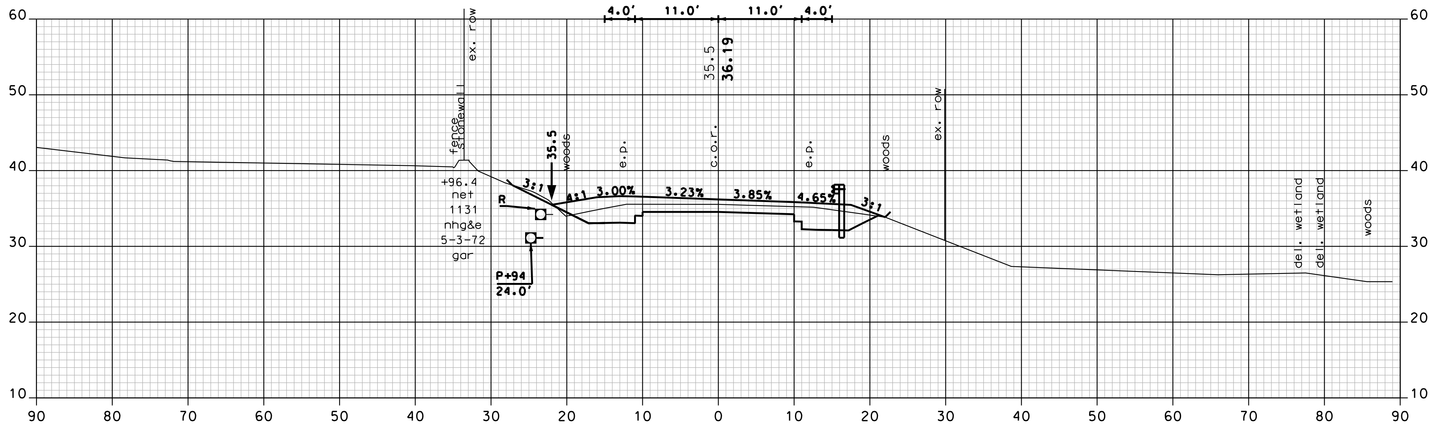
NUMBER	DATE	STATION	STATION	DESCRIPTION
1	6/5/2015	575+50	618+50	PROFILE REVISION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



619+00



618+50



618+00

1 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 575+50 TO 618+50.

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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SHEET TOTALS

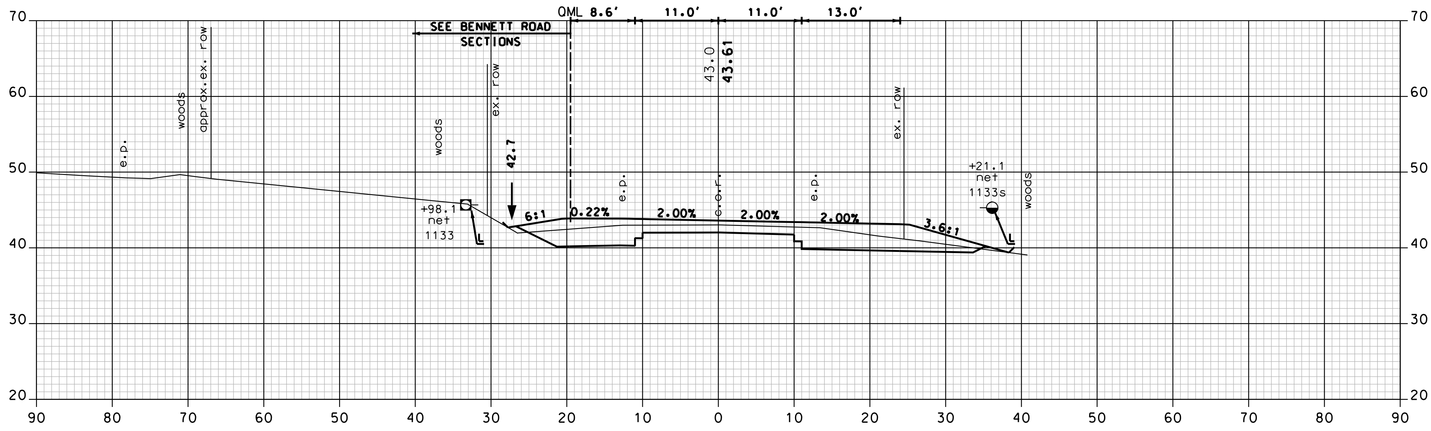
COMMON EXCAV.	353.2 C.Y.	ROCK EXCAV.	289.6 C.Y.
FILL	1.2 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	94B	119

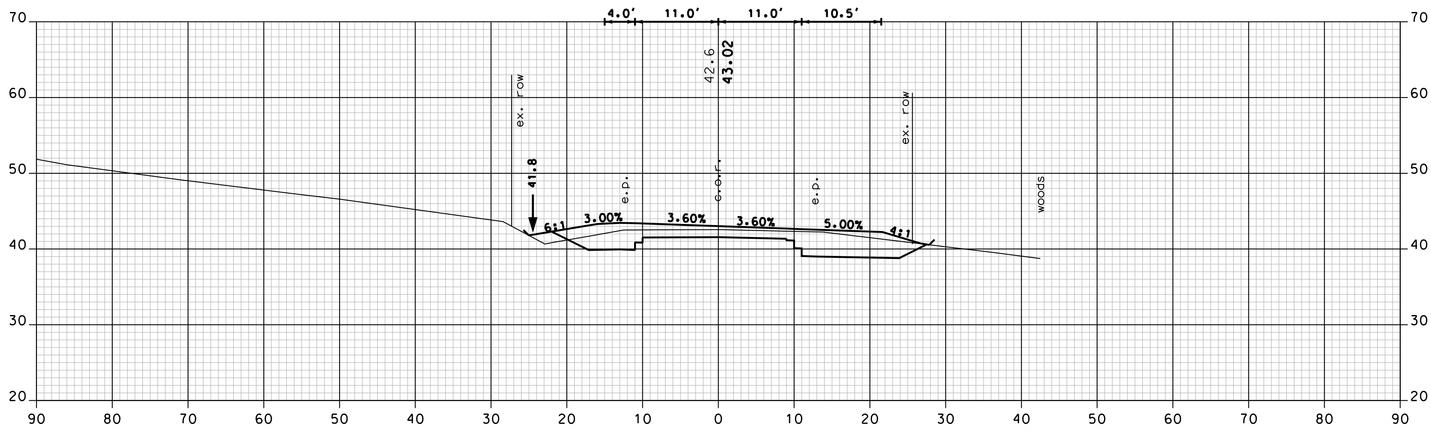
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

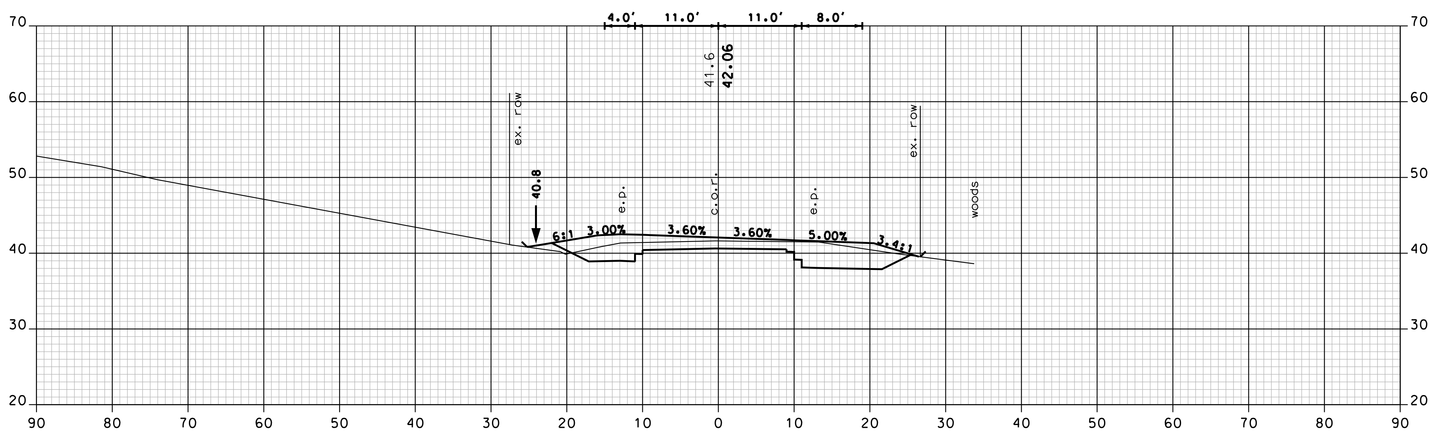
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



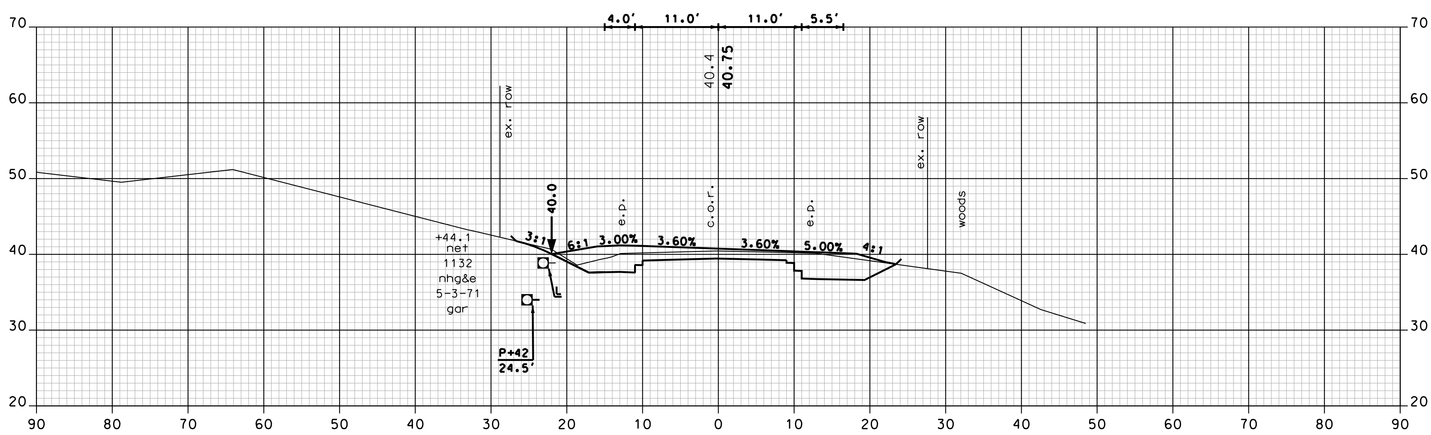
621+00



620+50



620+00



619+50

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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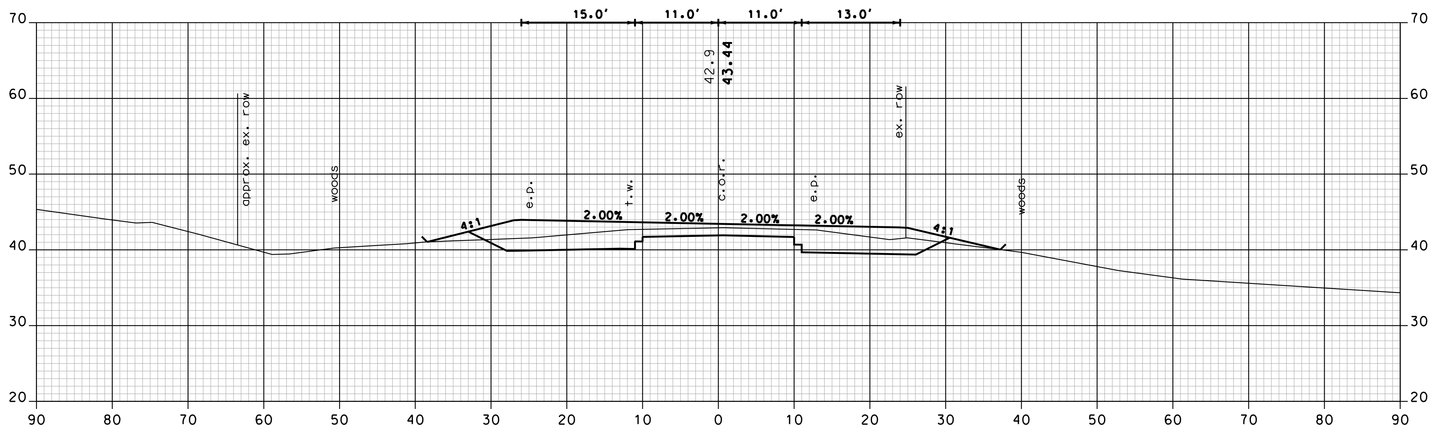
SHEET TOTALS			
COMMON EXCAV.	625.5 C.Y.	ROCK EXCAV.	0.0 C.Y.
FILL	18.4 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	95A	119

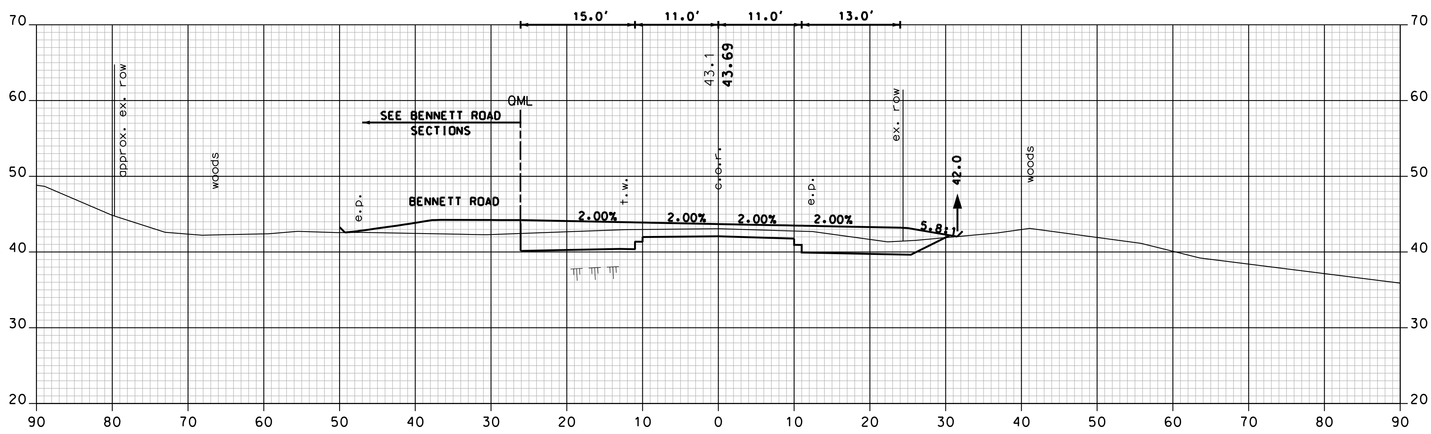
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

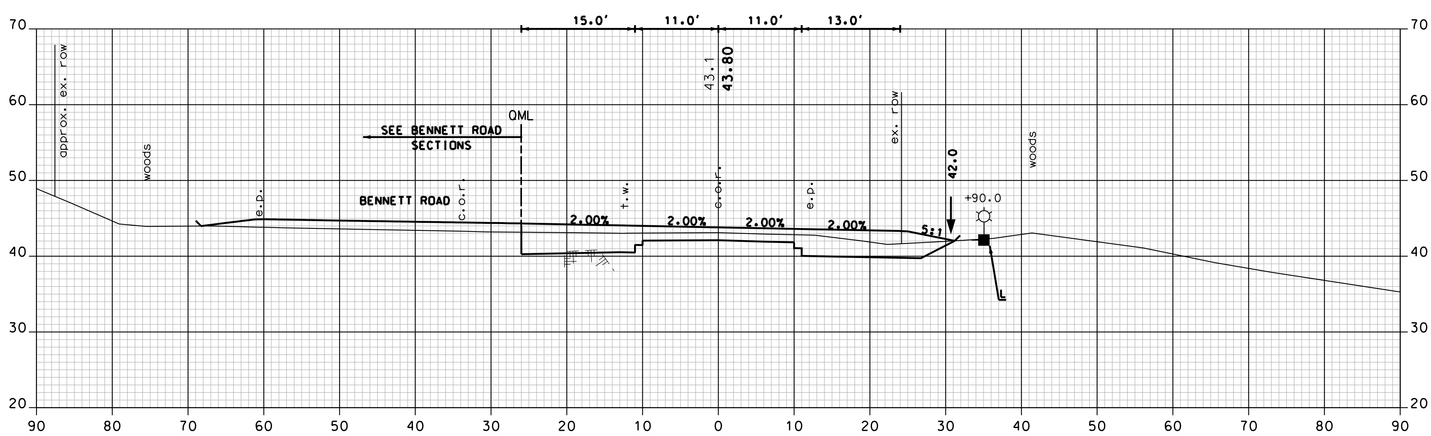
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



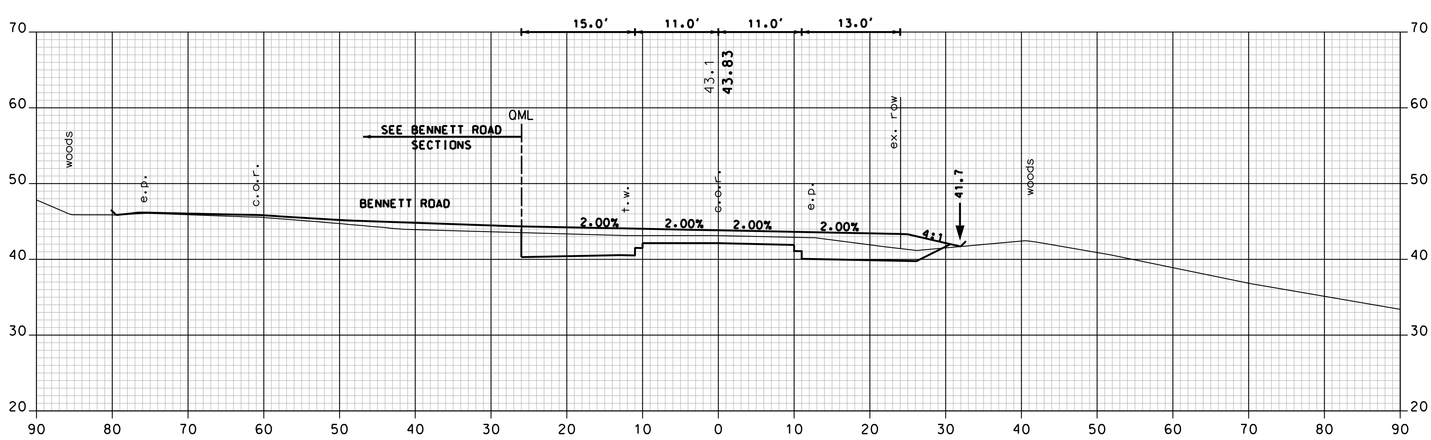
622+50



622+00



621+76 (BENNETT ROAD LT.)



621+50 (BENNETT ROAD LT.)

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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SHEET TOTALS

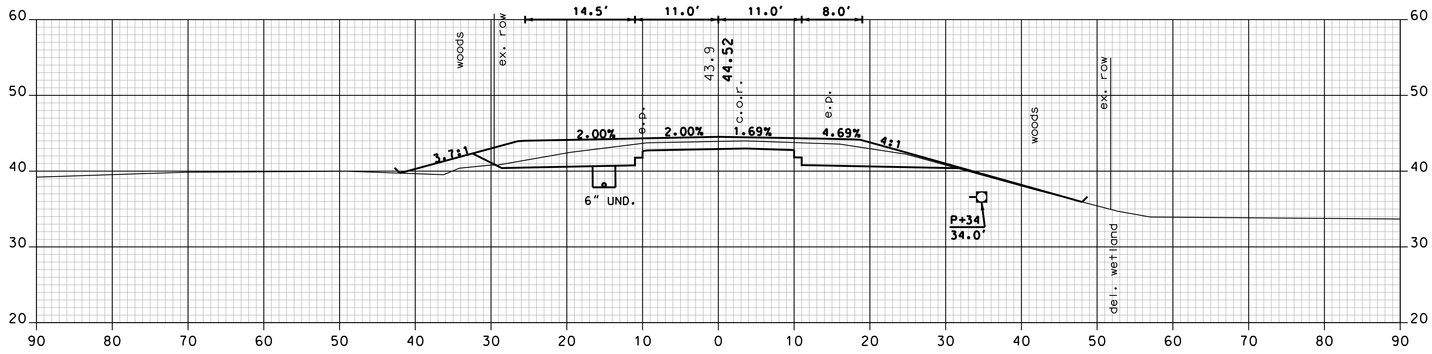
COMMON EXCAV.	567.3 C.Y.	ROCK EXCAV.	0.0 C.Y.
FILL	54.3 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	96A	119

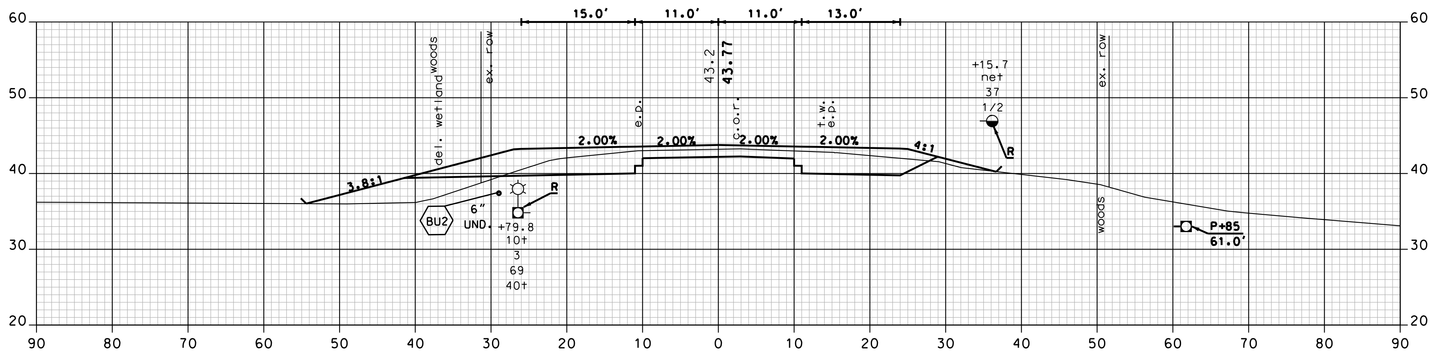
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

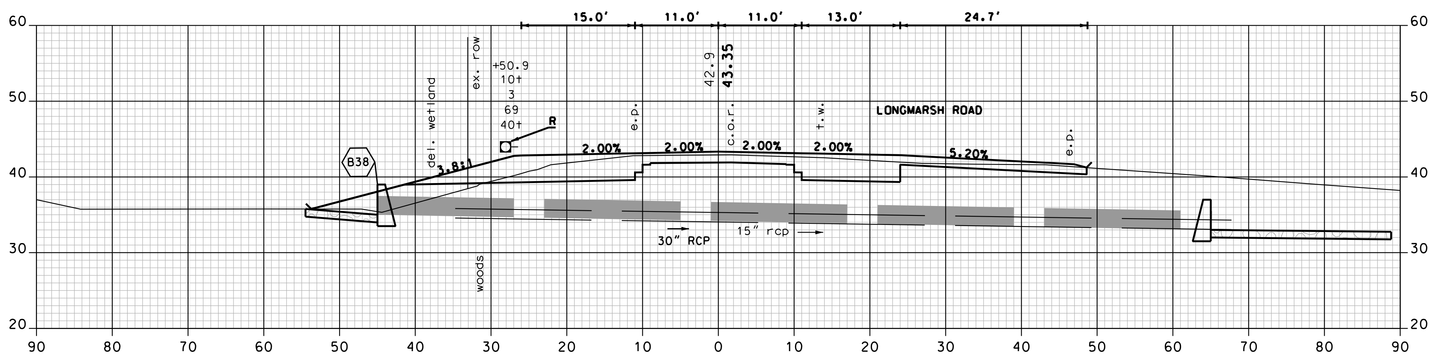
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



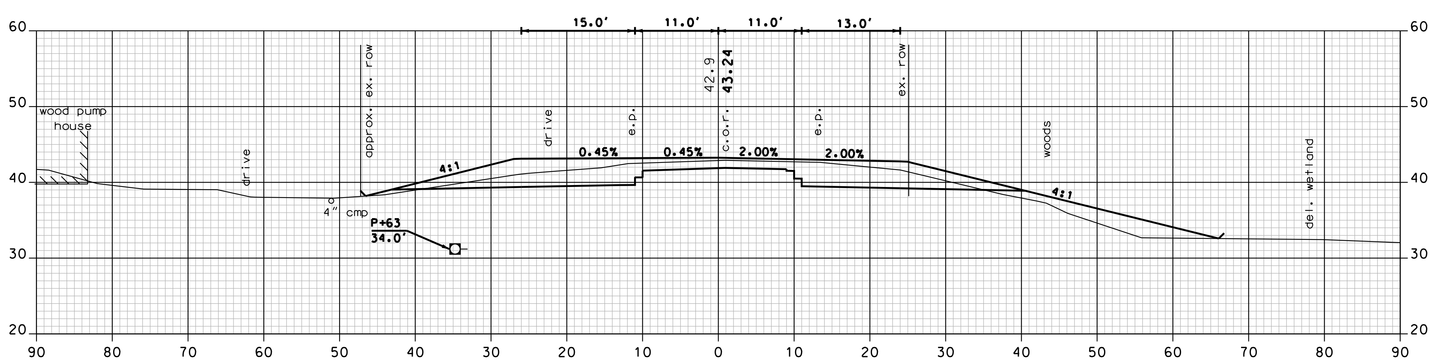
624+50



624+00



623+50 (LONGMARSH ROAD RT.)



623+00

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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SHEET TOTALS

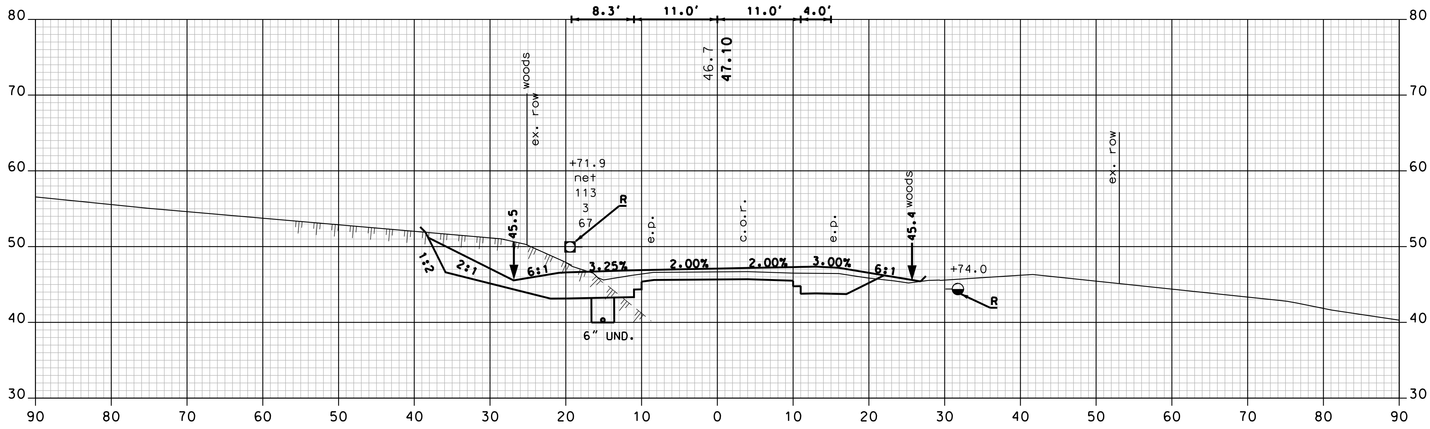
COMMON EXCAV.	766.7 C.Y.	ROCK EXCAV.	0.0 C.Y.
FILL	228.0 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	97A	119

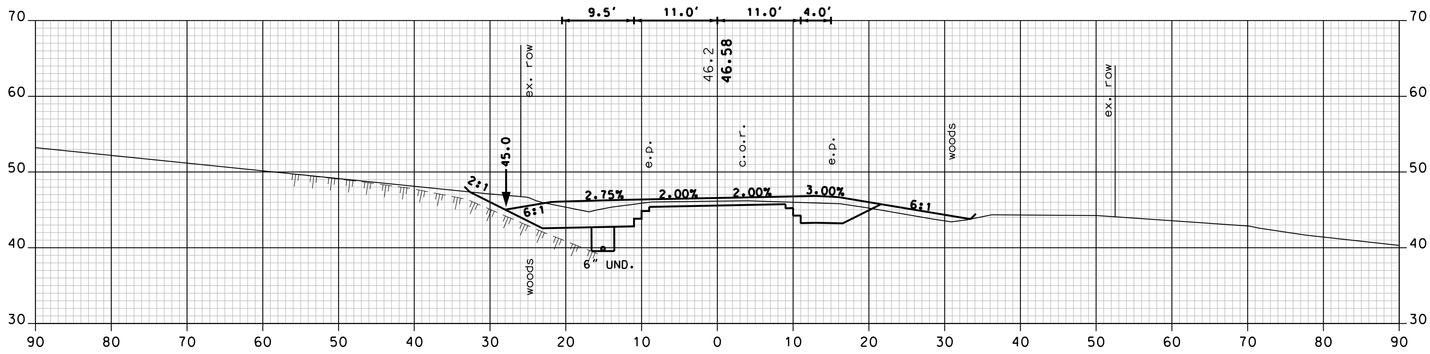
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

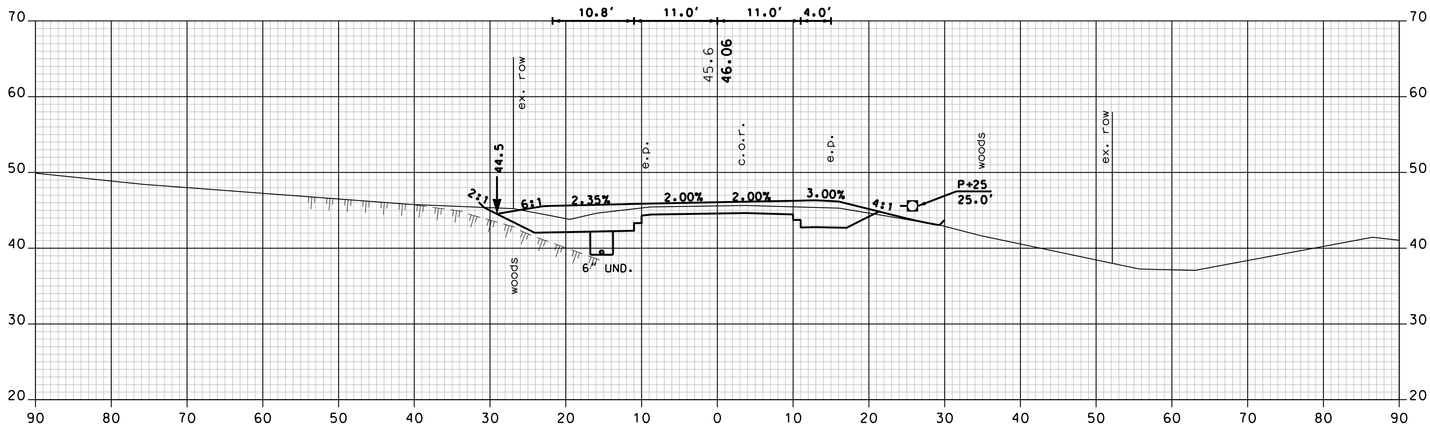
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



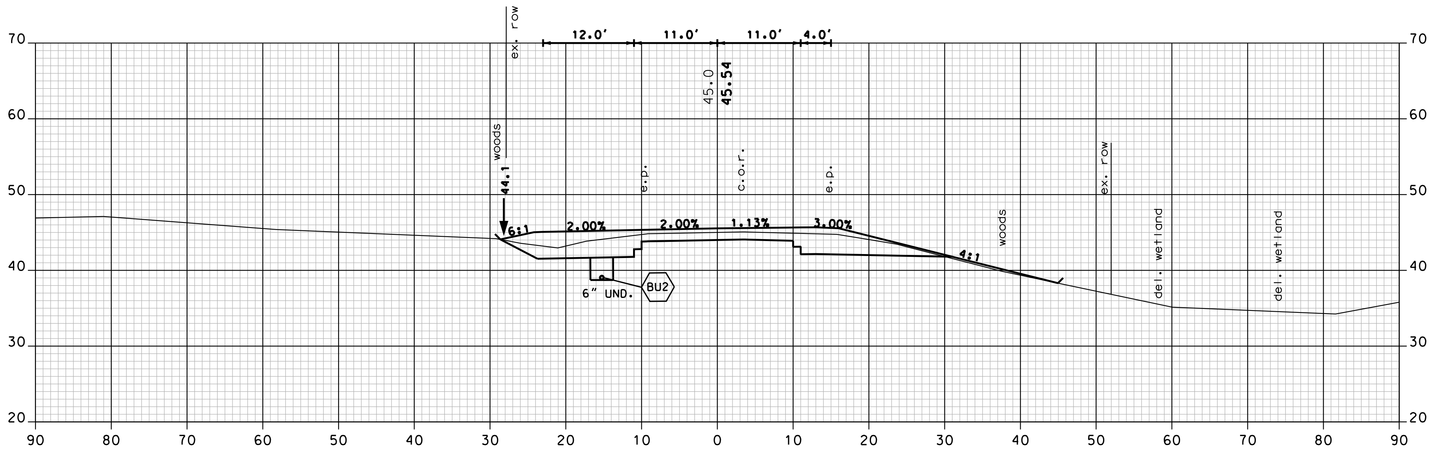
625+75



625+50



625+25



625+00

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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SHEET TOTALS

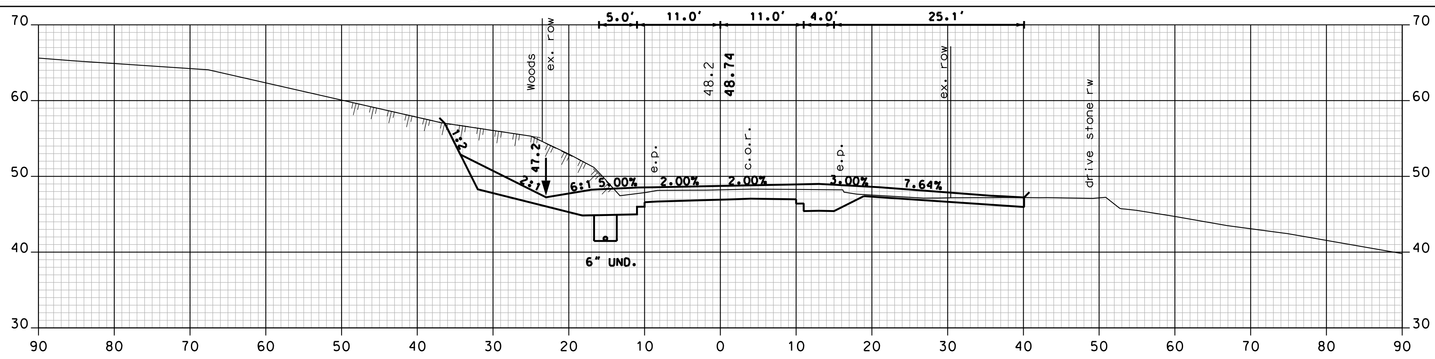
COMMON EXCAV.	270.2 C.Y.	ROCK EXCAV.	165.2 C.Y.
FILL	25.3 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	98A	119

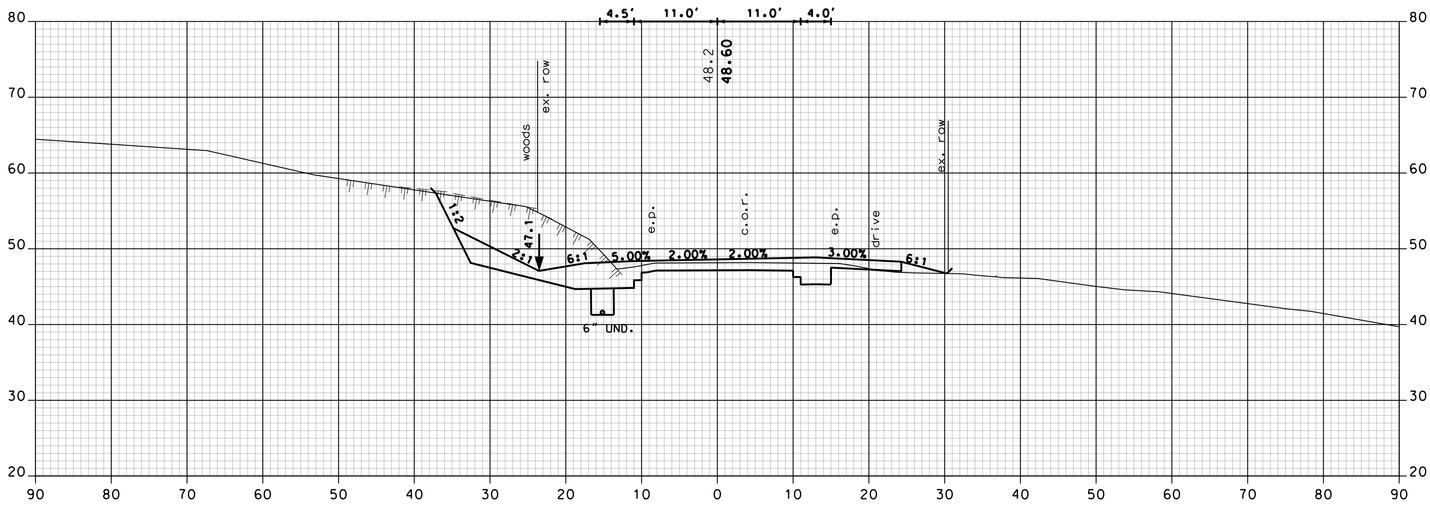
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

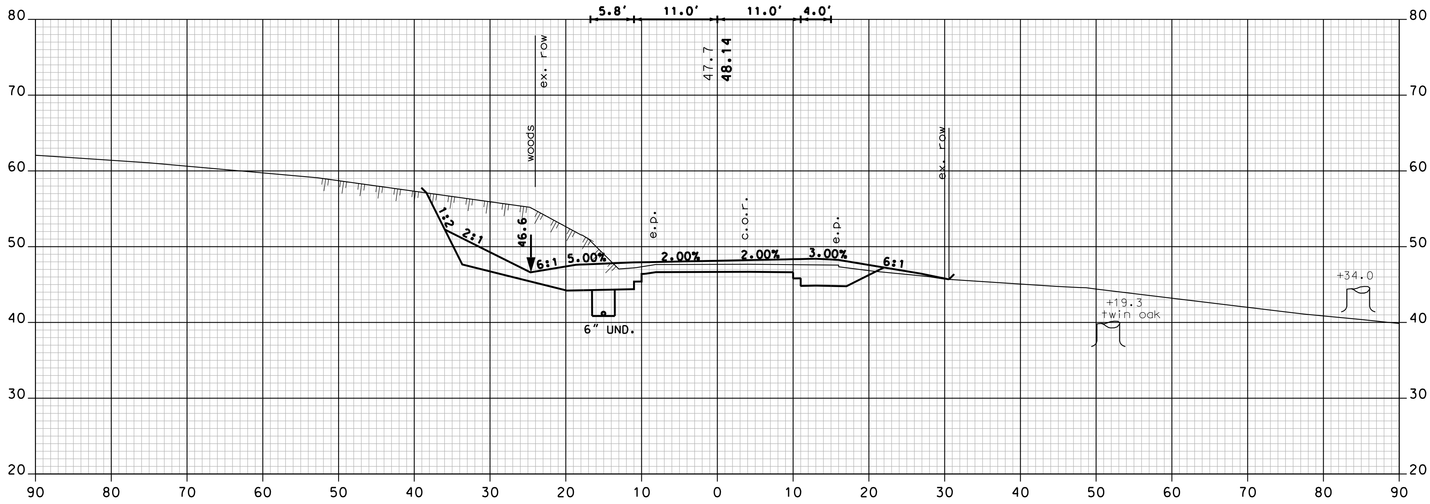
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



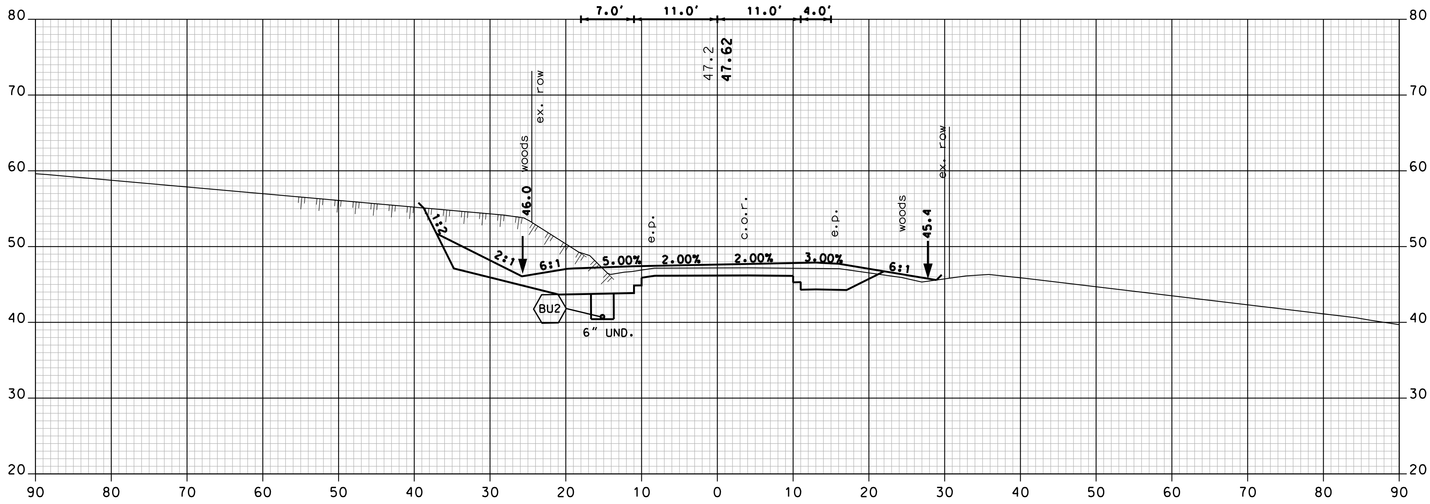
626+62 (DRIVE RT.)



626+50 (DRIVE RT.)



626+25



626+00

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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NH ROUTE 108 - MCAM

SHEET TOTALS

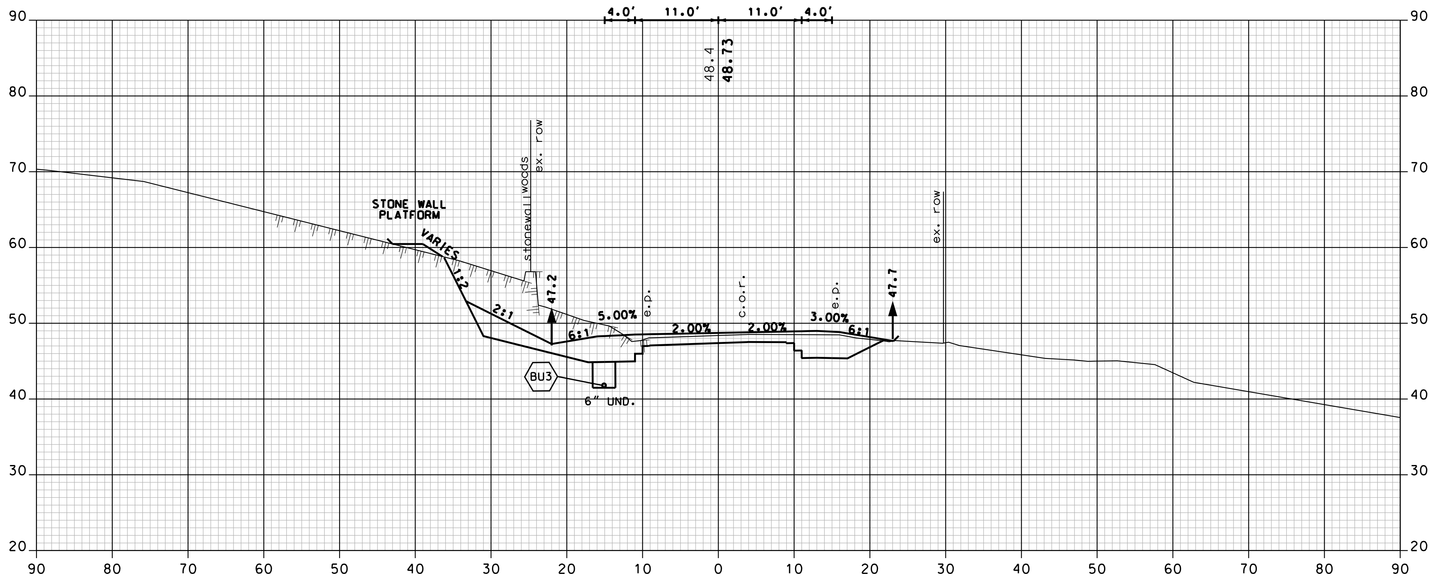
COMMON EXCAV.	127.0 C.Y.	ROCK EXCAV.	486.1 C.Y.
FILL	94.7 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	99A	119

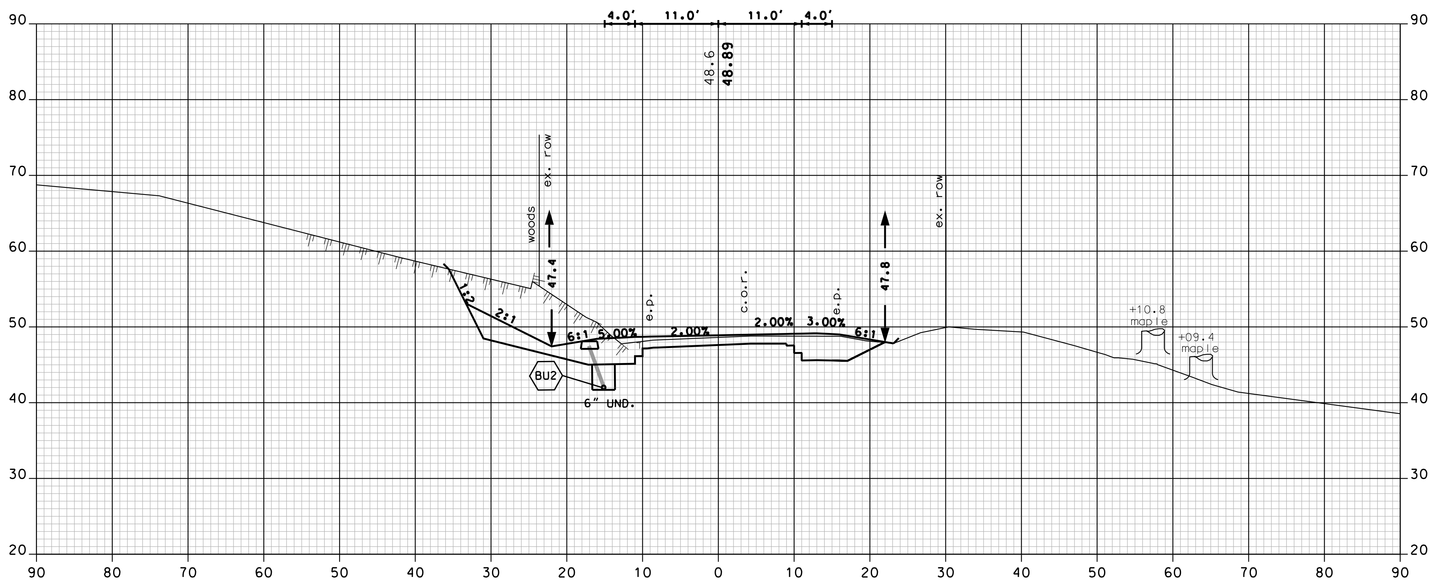
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

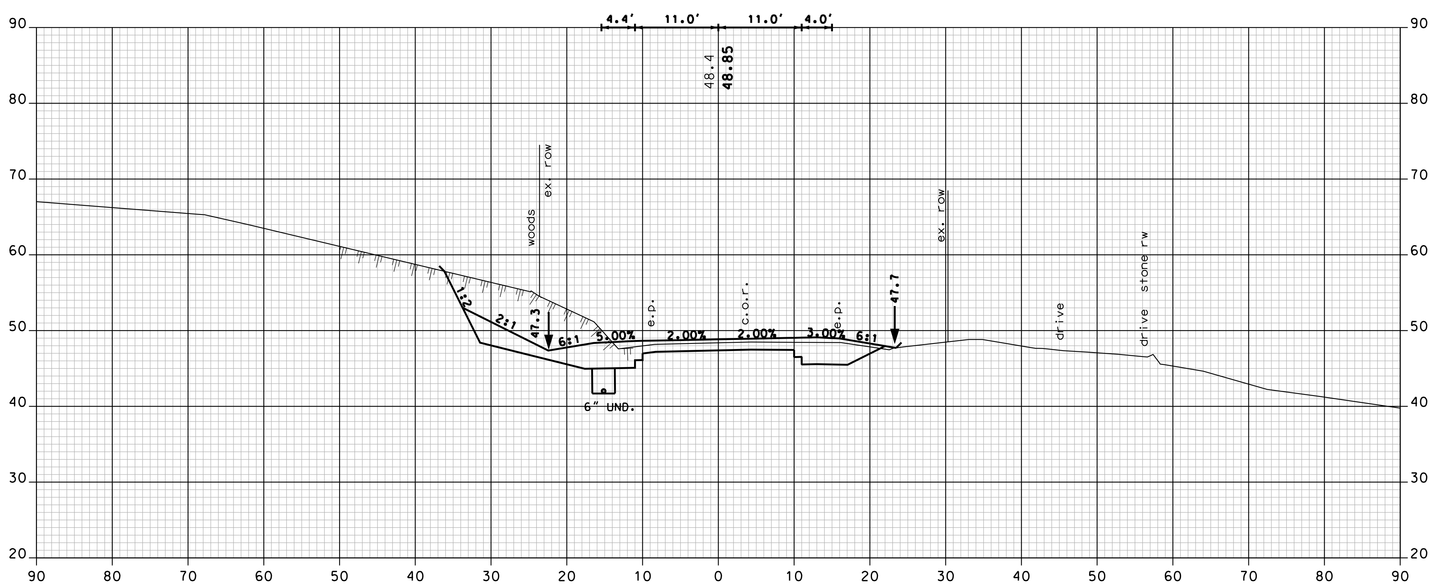
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



627+25



627+00



626+75

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

NH ROUTE 108 - MCAM

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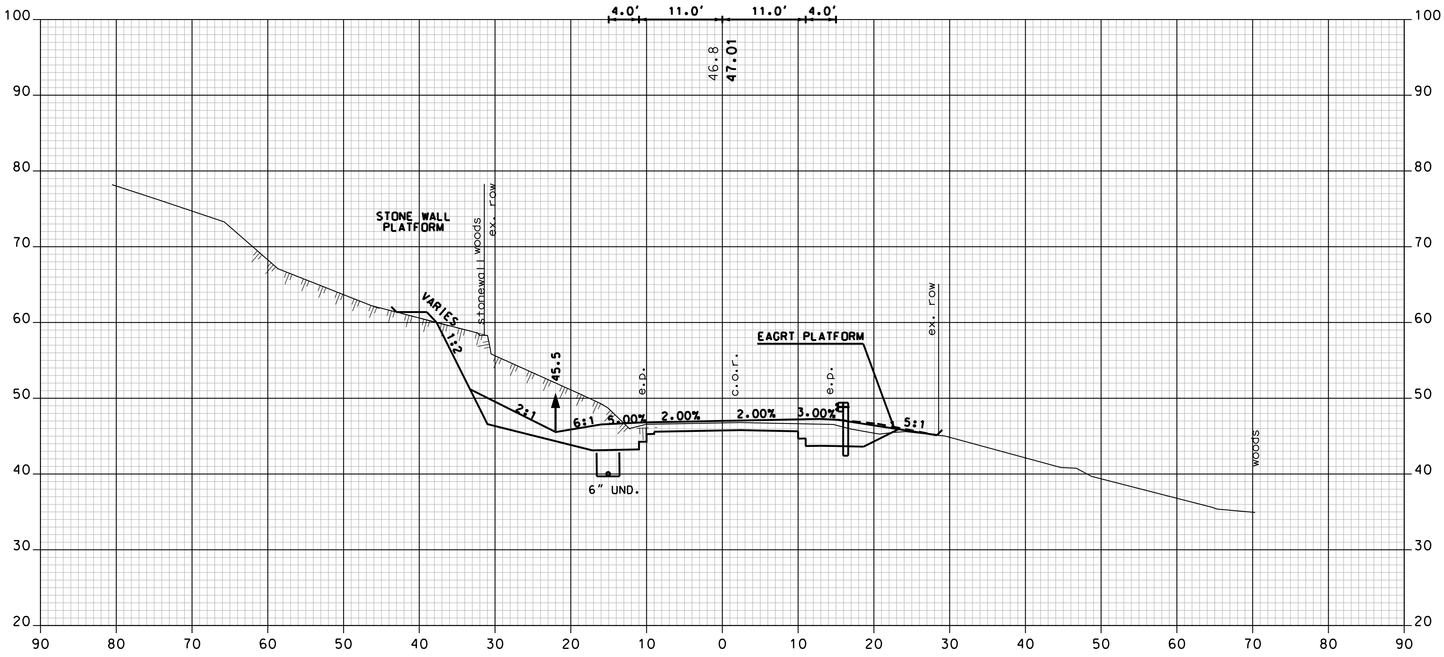
SHEET TOTALS			
COMMON EXCAV.	135.6 C.Y.	ROCK EXCAV.	432.0 C.Y.
FILL	69.7 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	100A	119

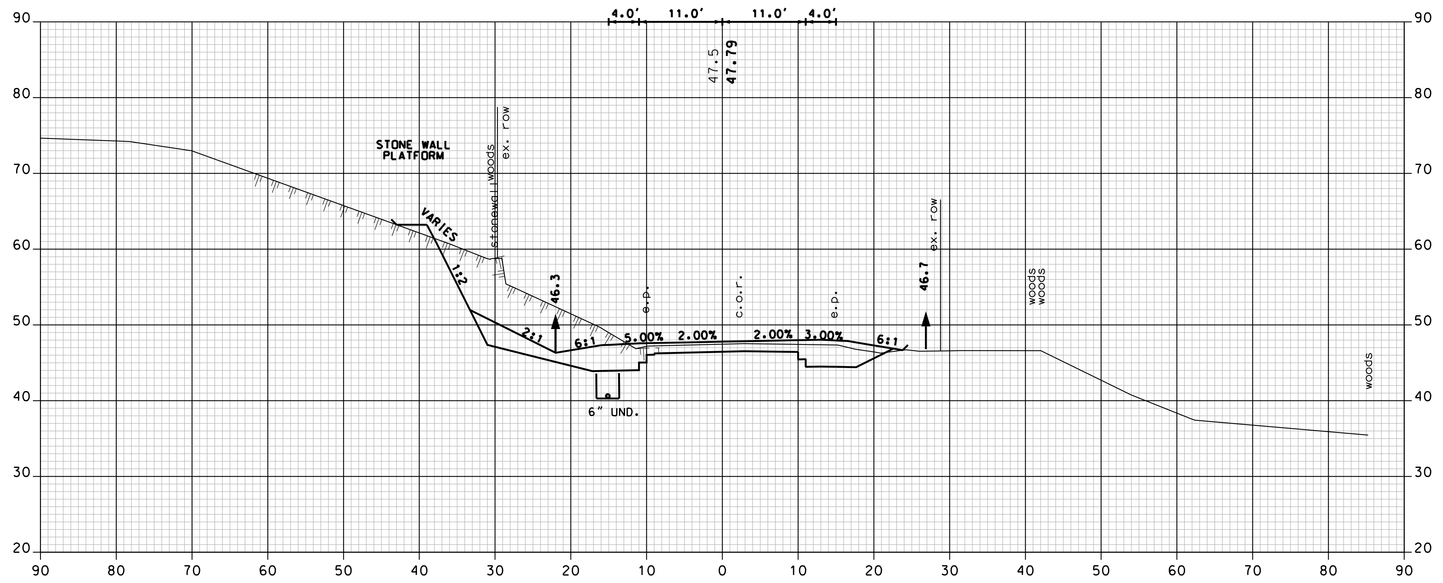
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

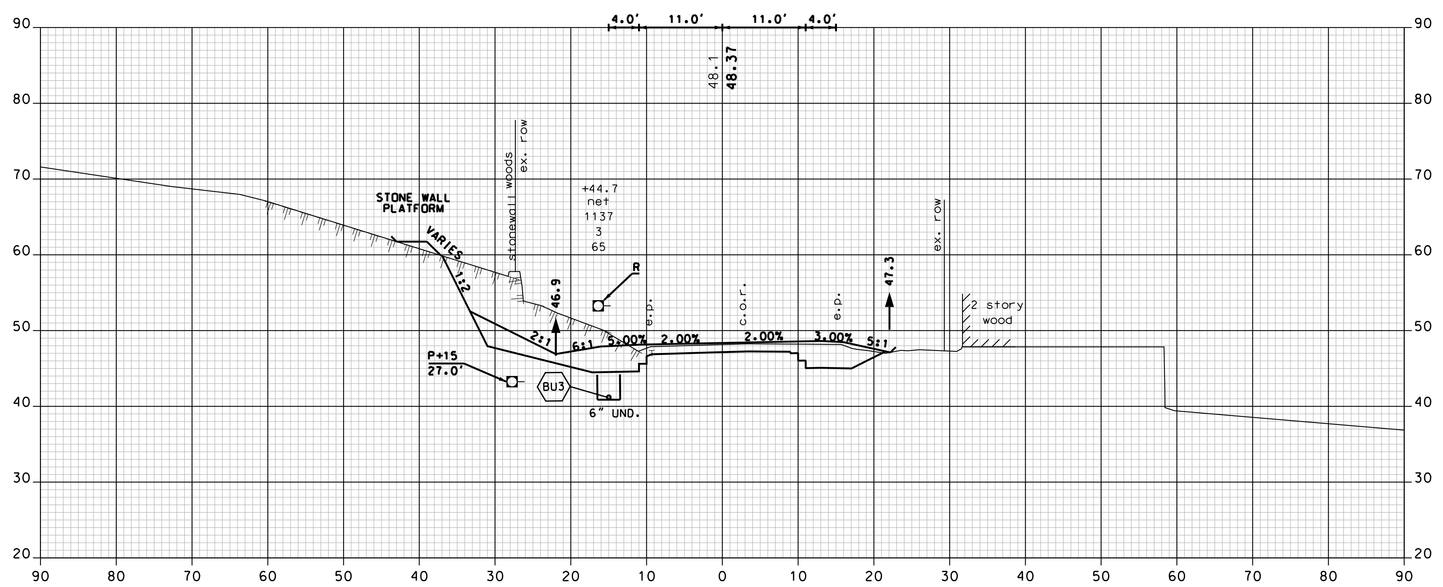
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



628+00



627+75



627+50

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

NH ROUTE 108 - MCAM

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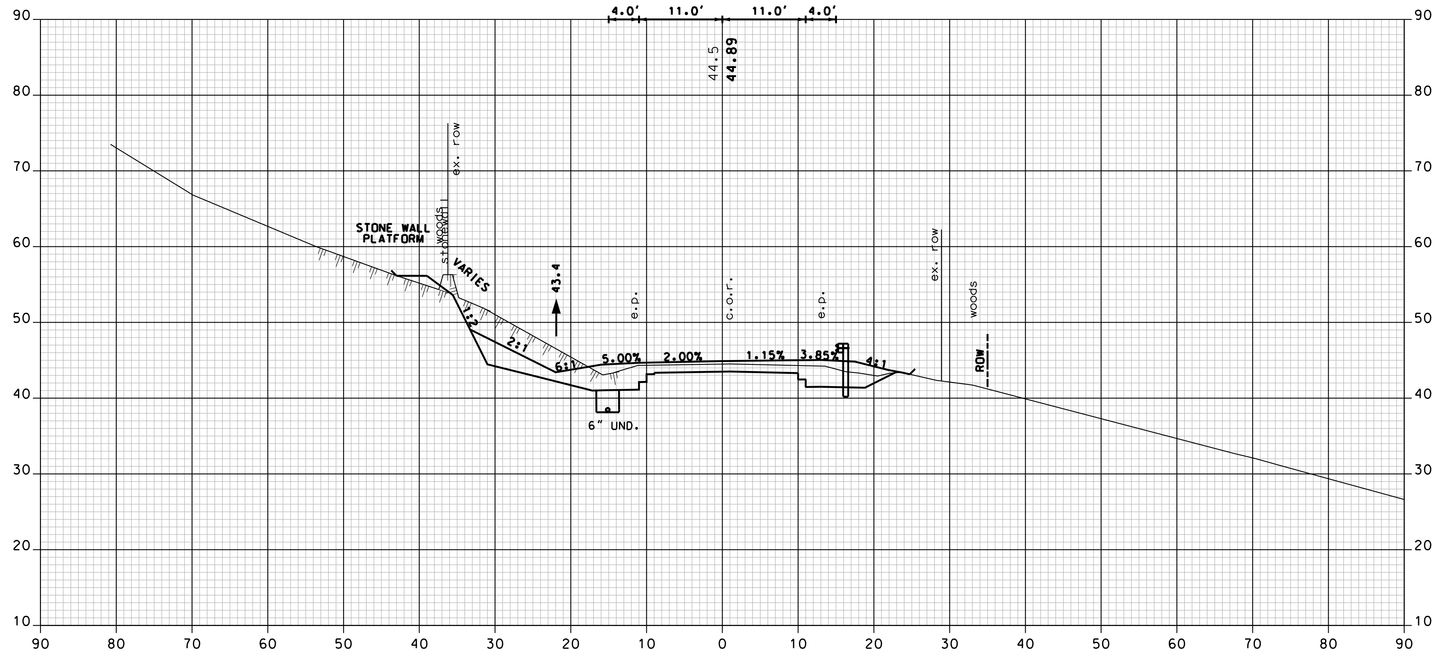
SHEET TOTALS			
COMMON EXCAV.	125.4 C.Y.	ROCK EXCAV.	480.1 C.Y.
FILL	74.9 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	101A	119

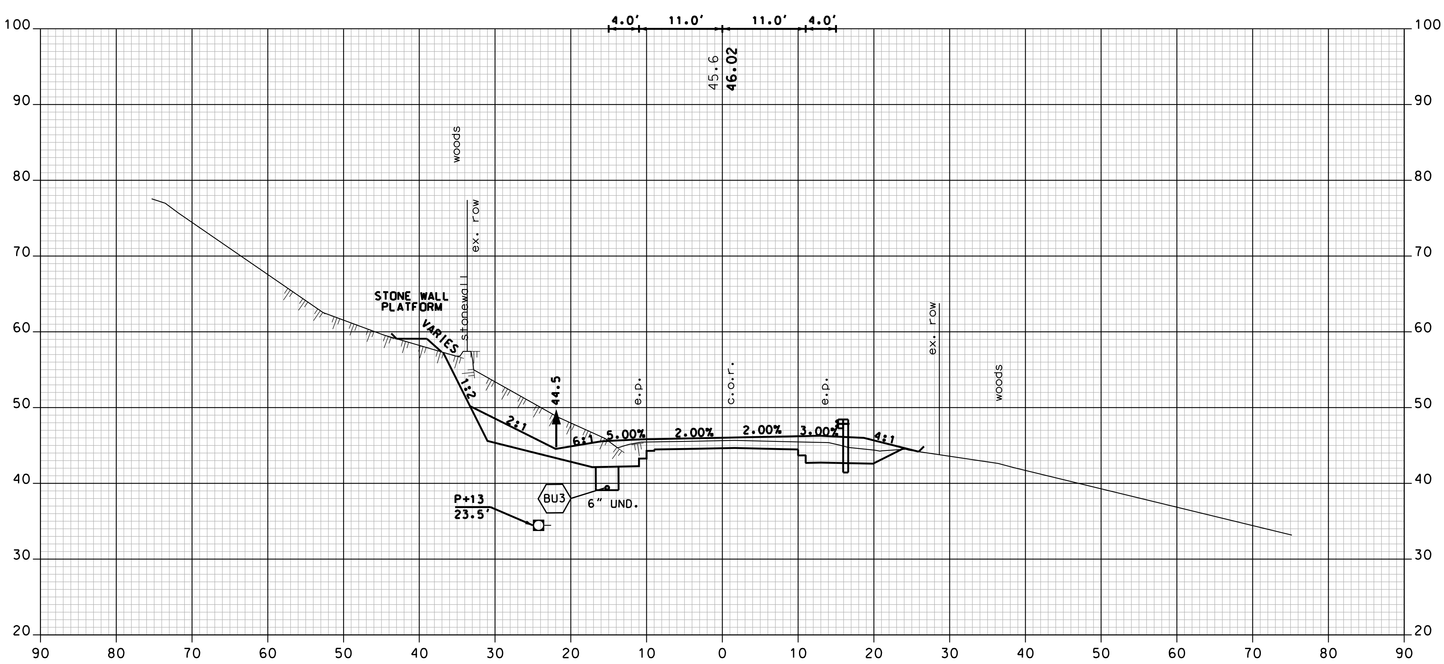
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



628+50



628+25

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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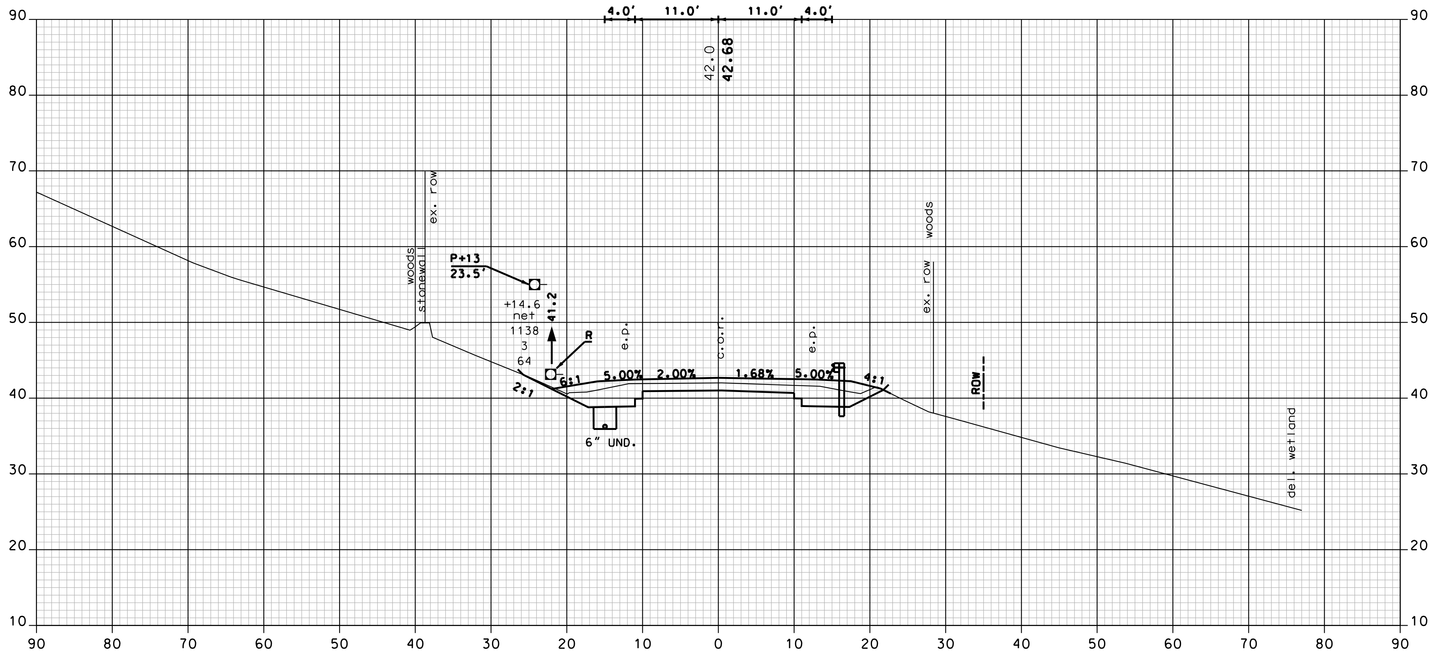
SHEET TOTALS			
COMMON EXCAV.	93.6 C.Y.	ROCK EXCAV.	185.4 C.Y.
FILL	48.5 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	102A	119

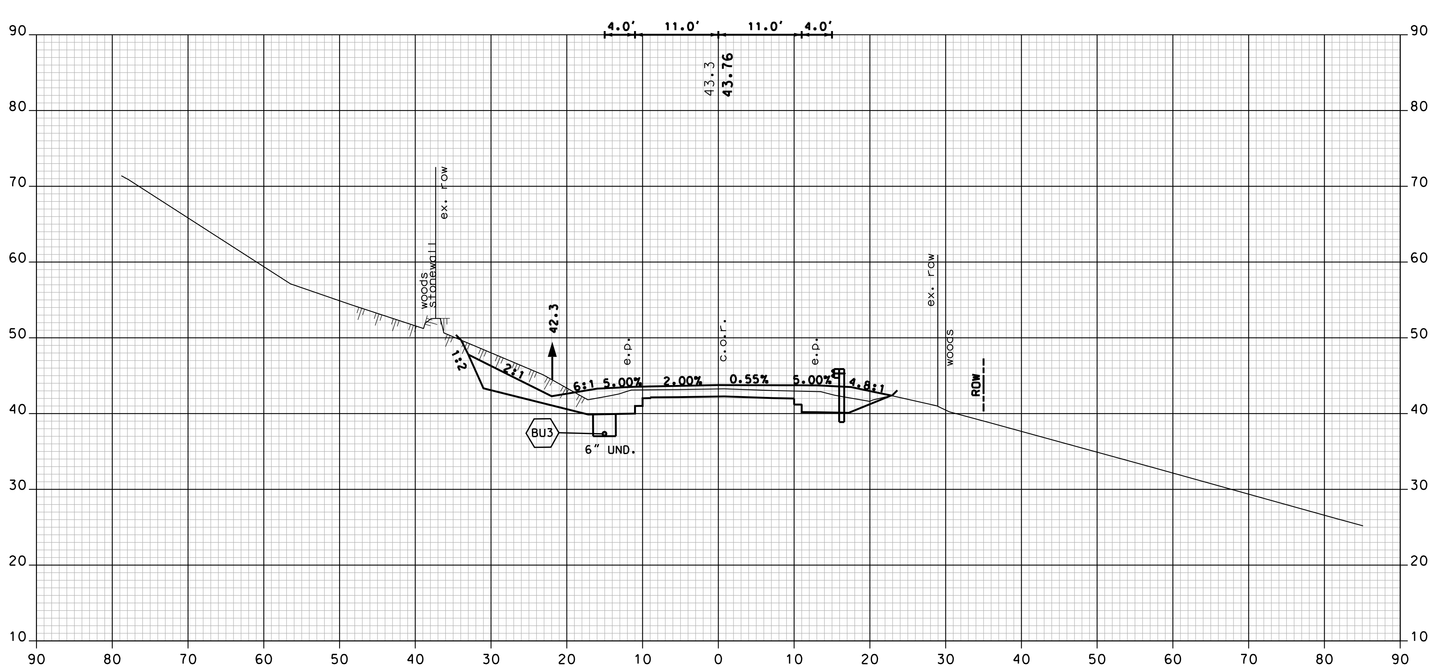
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



629+00



628+75

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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NH ROUTE 108 - MCAM

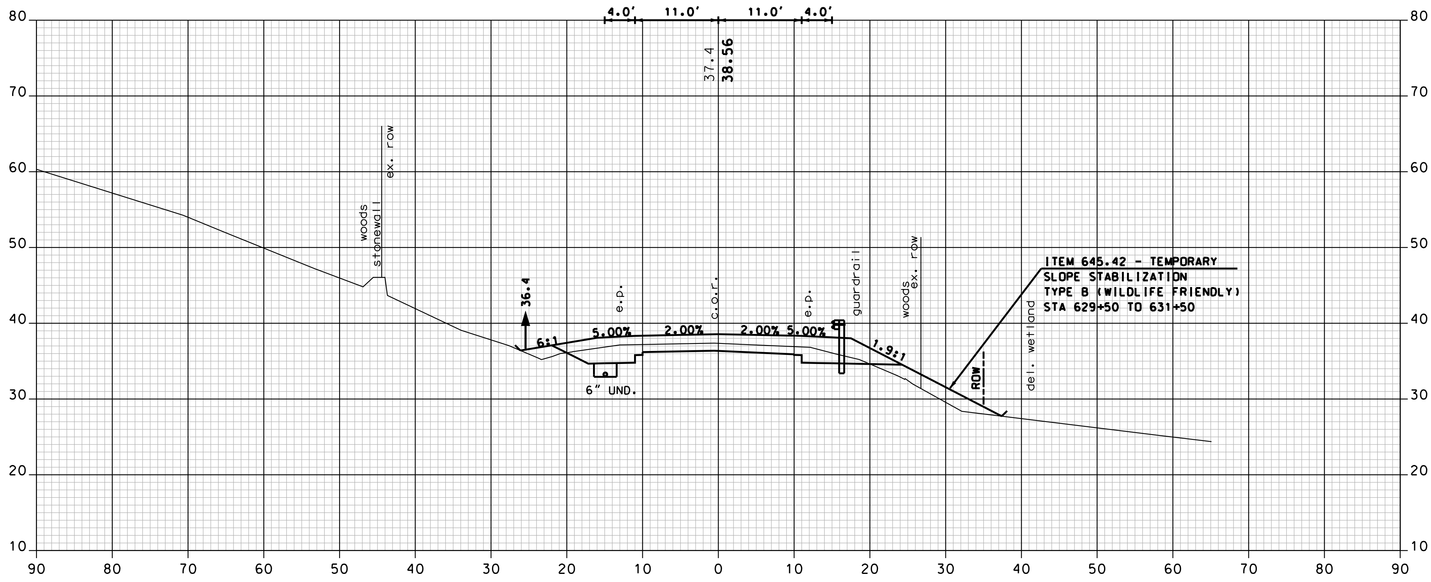
SHEET TOTALS			
COMMON EXCAV.	172.6 C.Y.	ROCK EXCAV.	27.3 C.Y.
FILL	23.1 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	103A	119

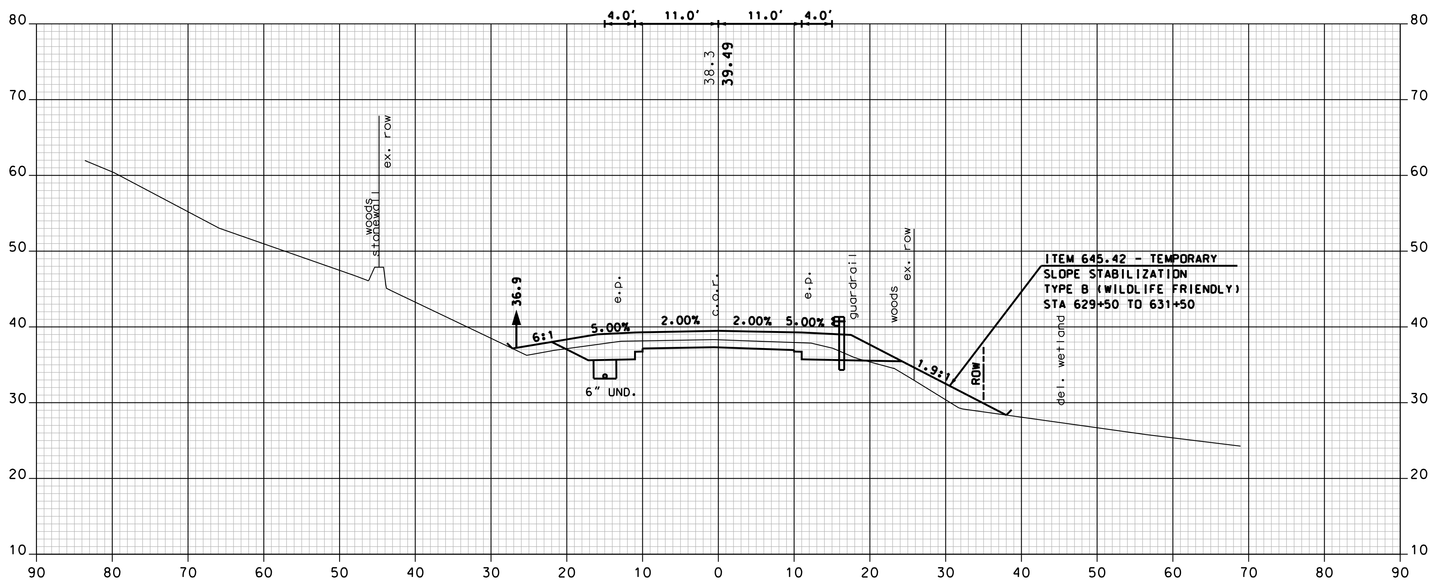
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

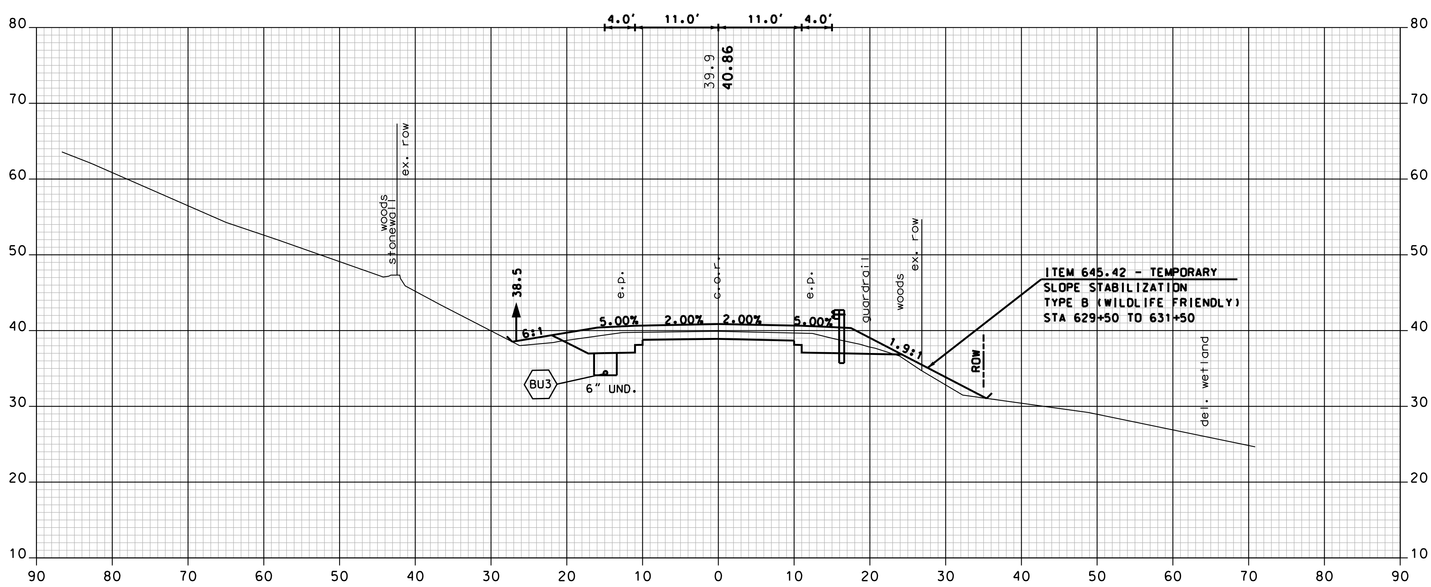
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



630+50



630+00



629+50

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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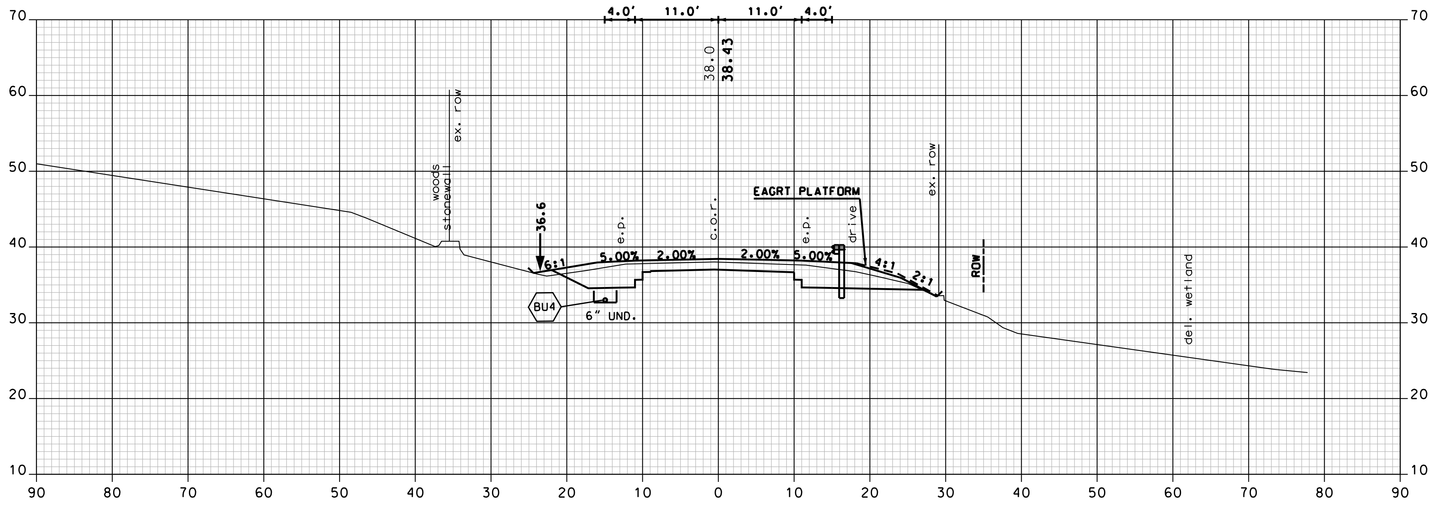
SHEET TOTALS			
COMMON EXCAV.	293.0 C.Y.	ROCK EXCAV.	0.0 C.Y.
FILL	153.9 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	104A	119

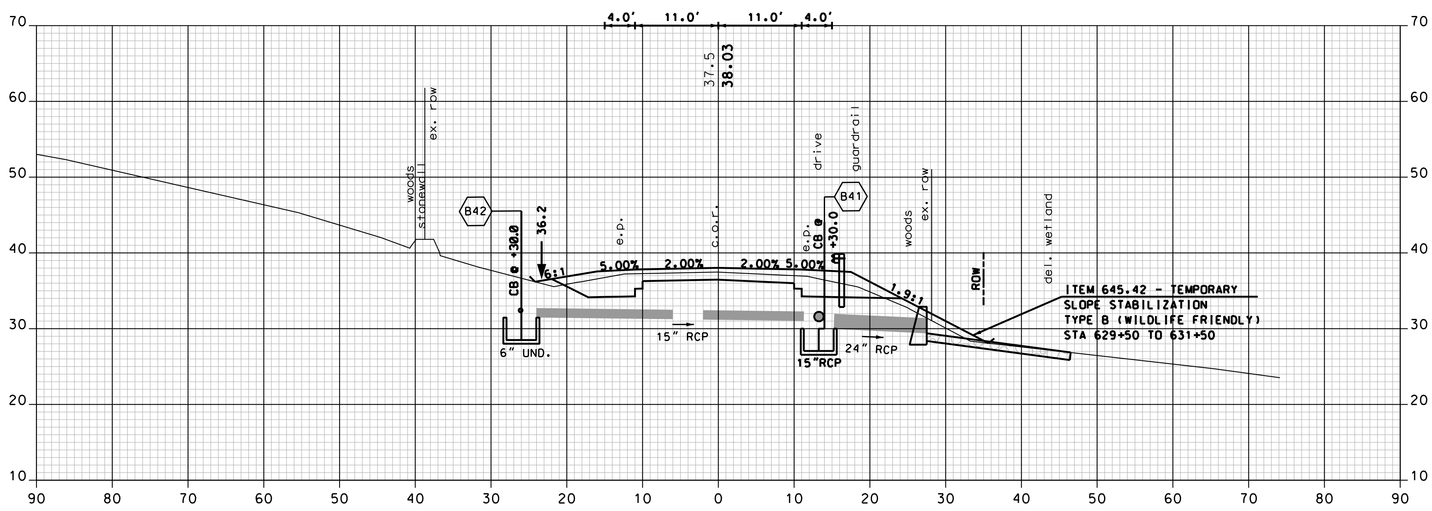
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

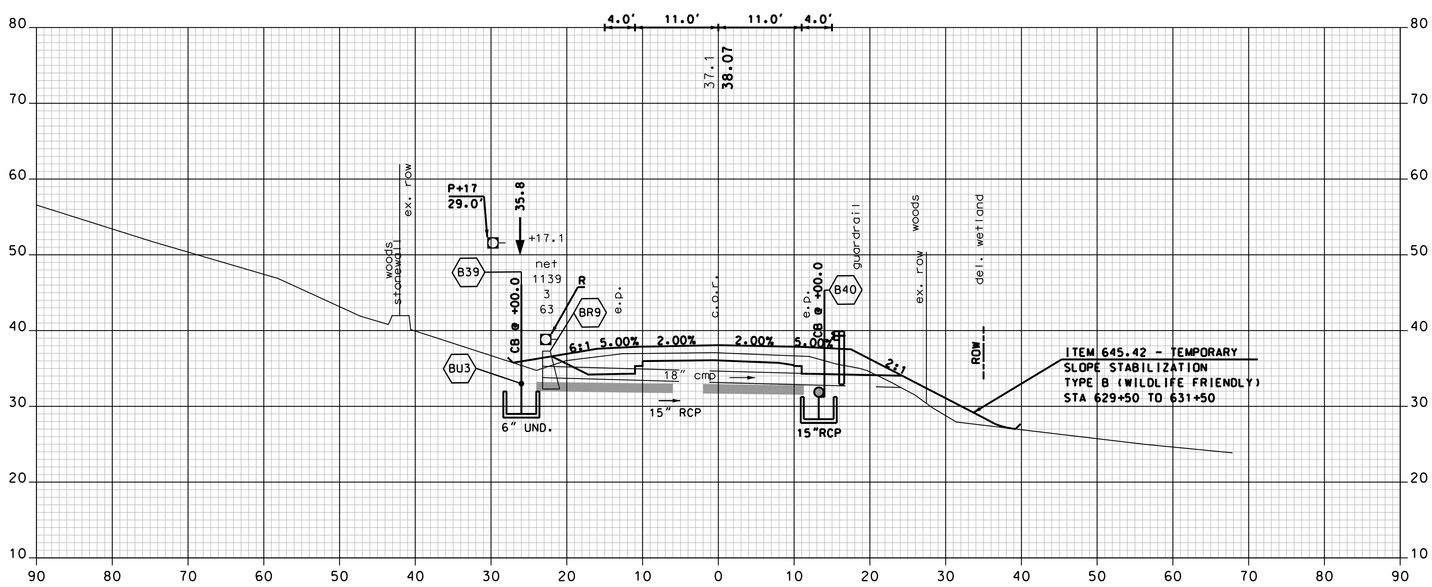
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



632+00



631+50



631+00

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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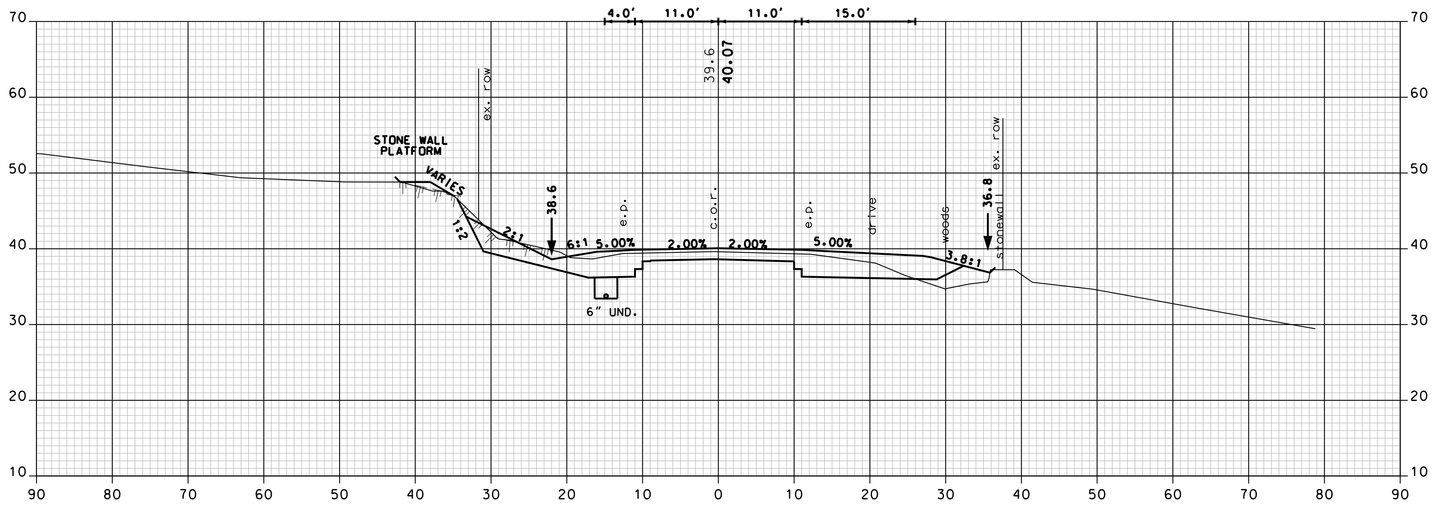
SHEET TOTALS			
COMMON EXCAV.	377.5 C.Y.	ROCK EXCAV.	21.5 C.Y.
FILL	62.6 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	105A	119

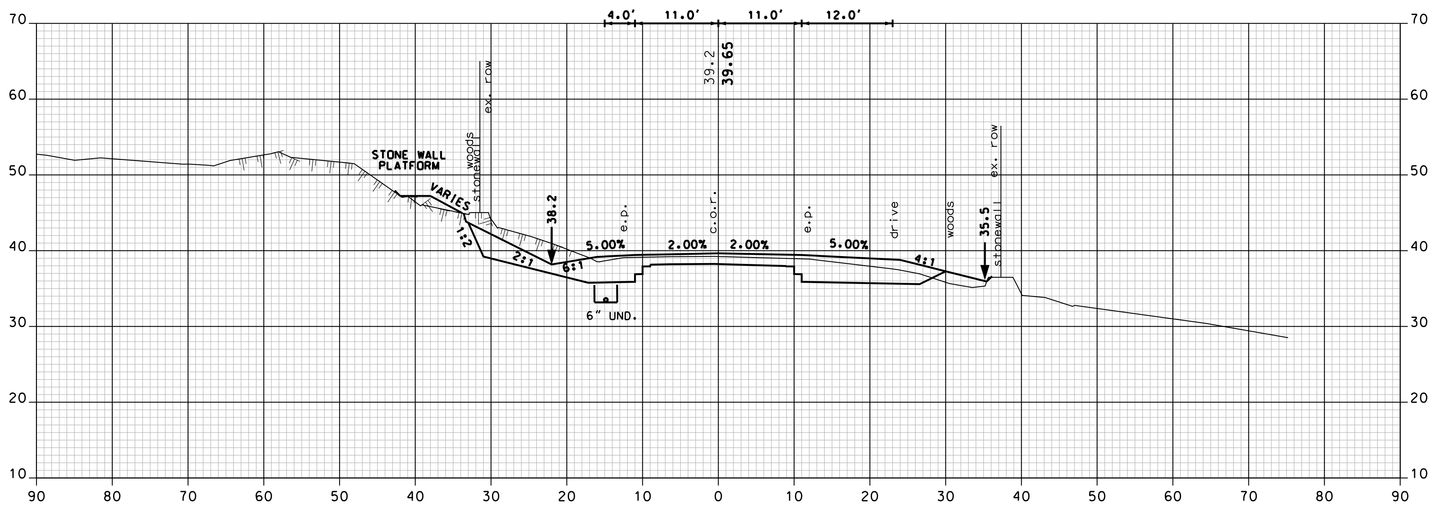
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

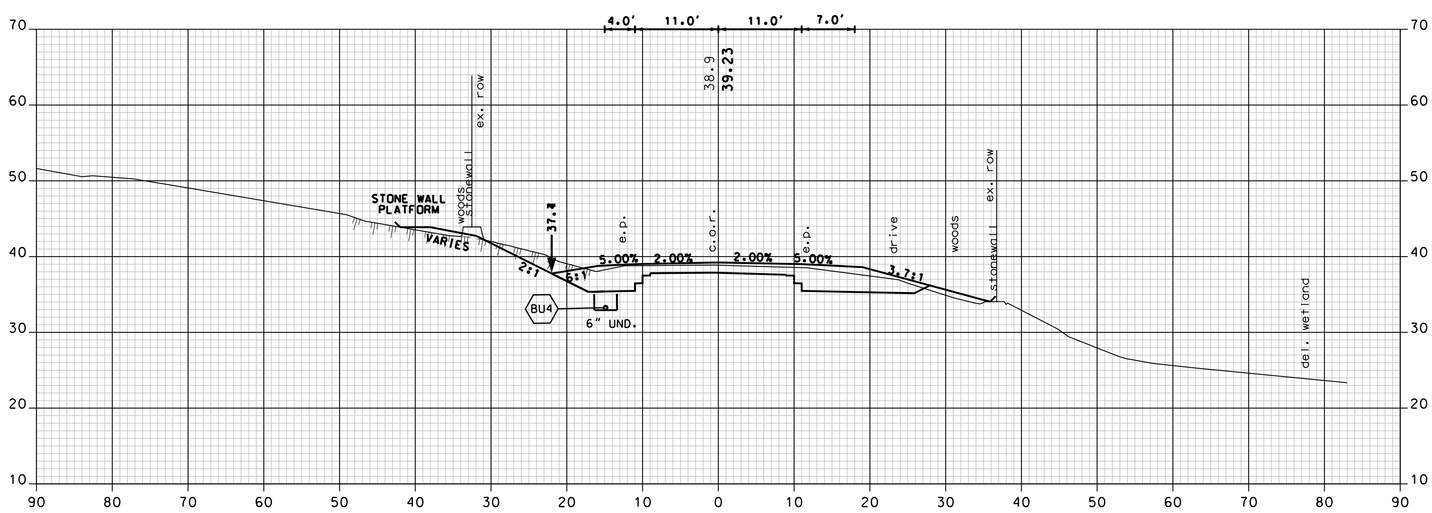
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



633+00



632+75



632+50

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

NH ROUTE 108 - MCAM

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SHEET TOTALS

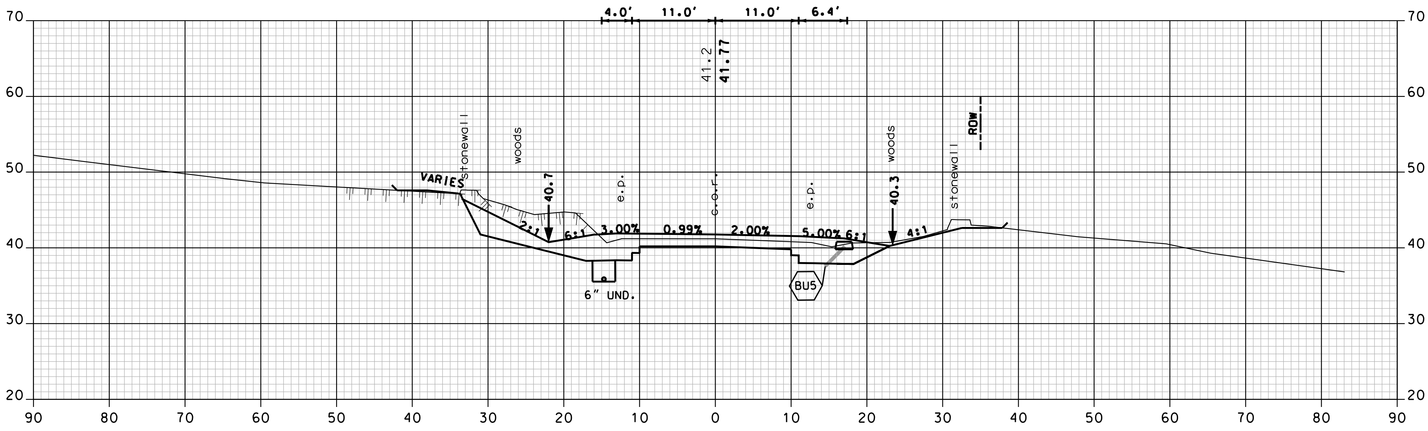
COMMON EXCAV.	213.4 C.Y.	ROCK EXCAV.	115.7 C.Y.
FILL	94.8 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	106A	119

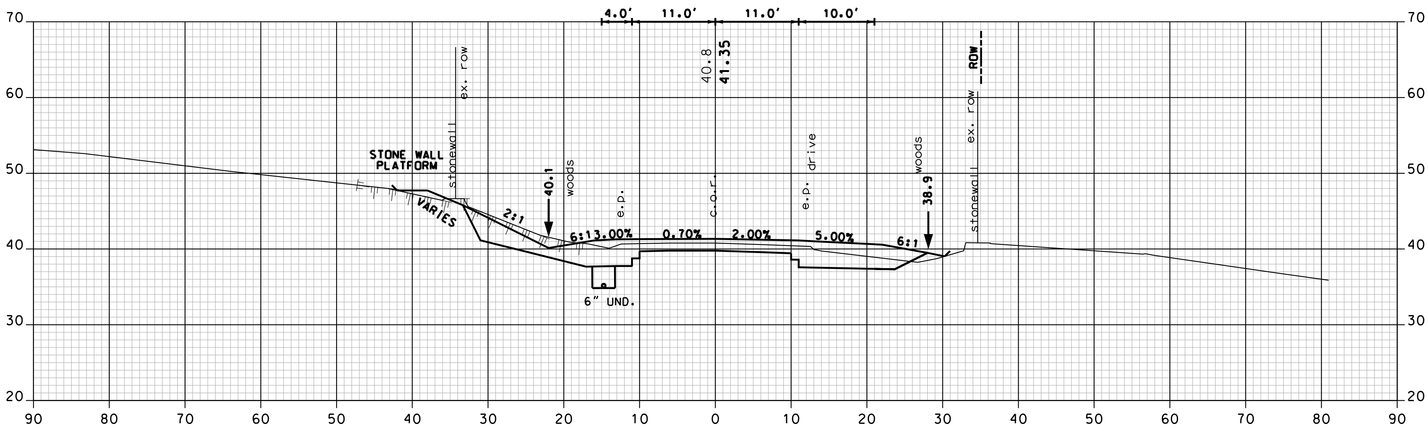
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

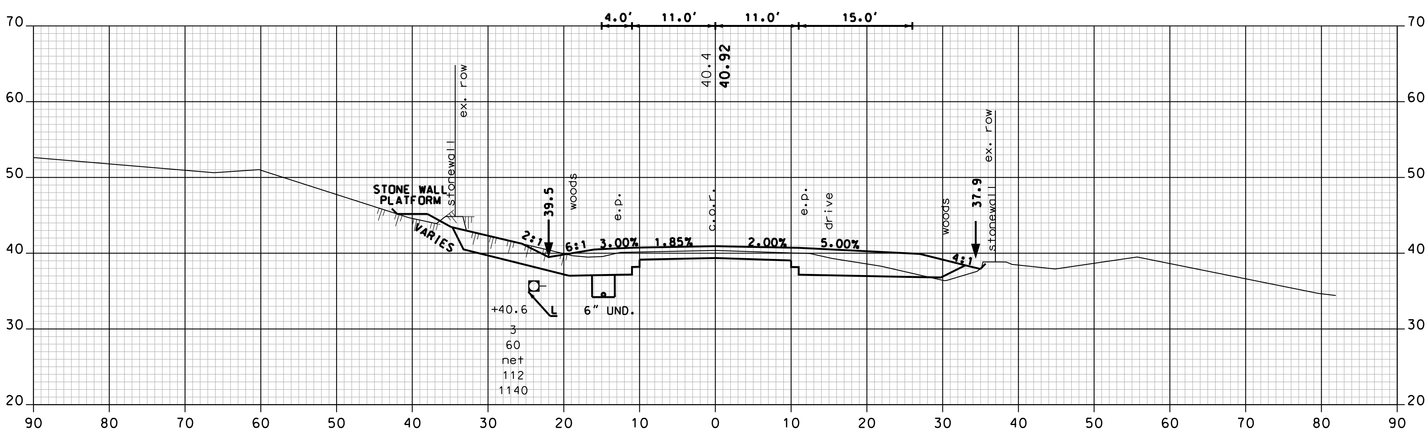
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



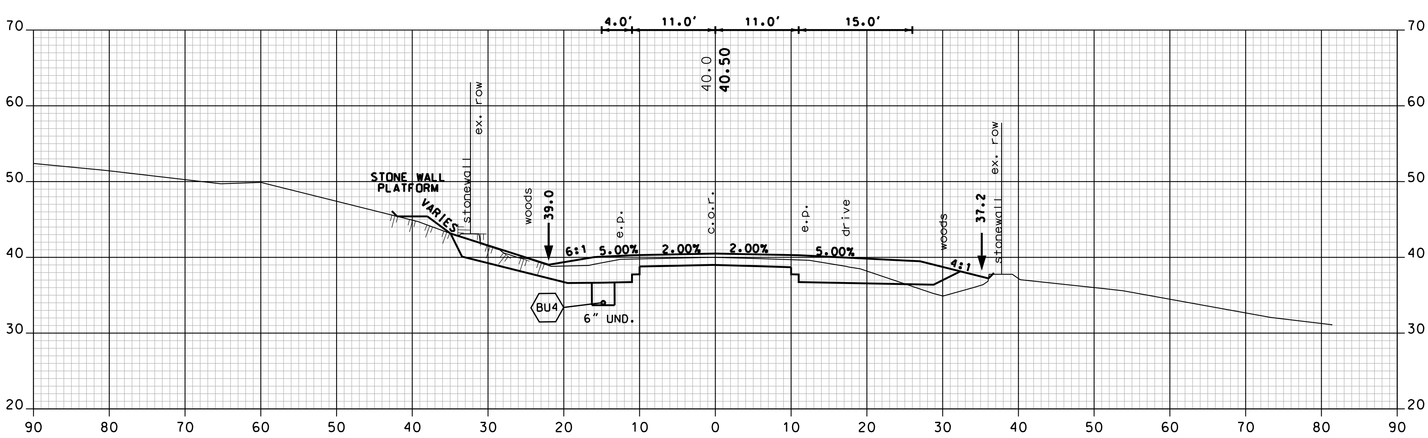
634+00



633+75



633+50



633+25

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

NH ROUTE 108 - MCAM

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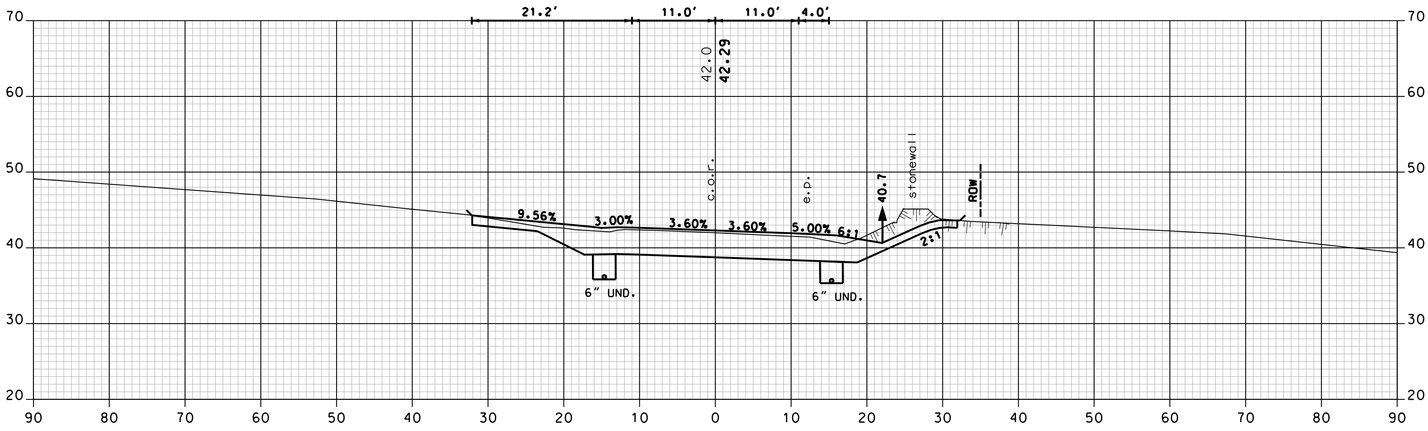
SHEET TOTALS			
COMMON EXCAV.	266.2 C.Y.	ROCK EXCAV.	206.9 C.Y.
FILL	103.3 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	107A	119

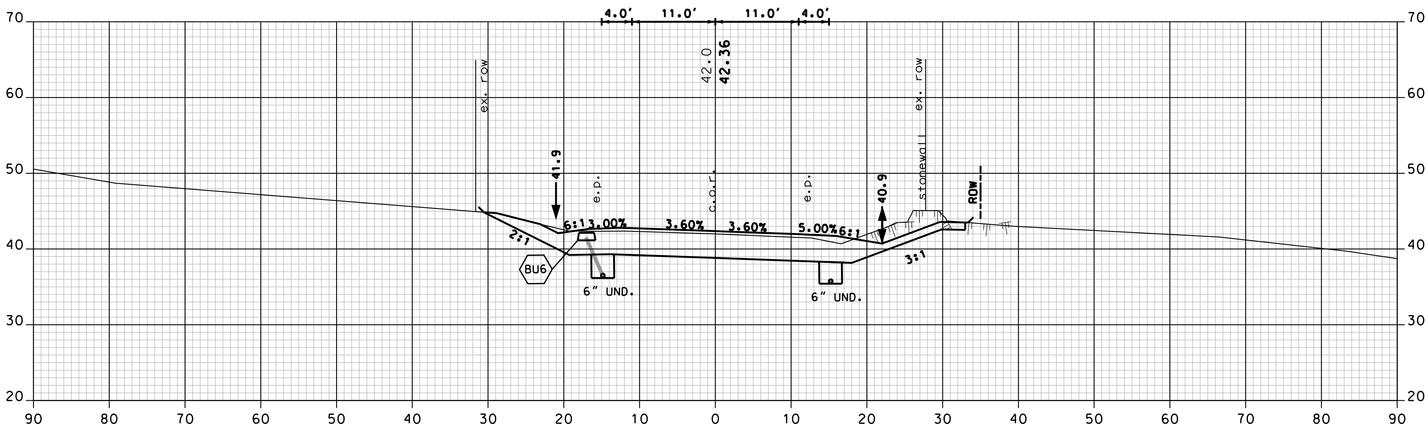
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

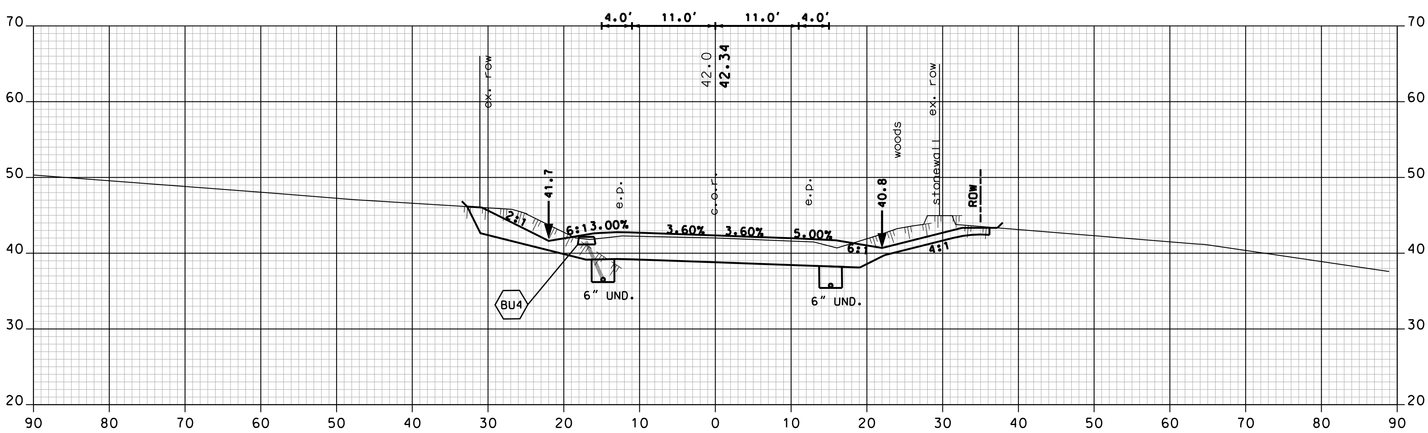
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



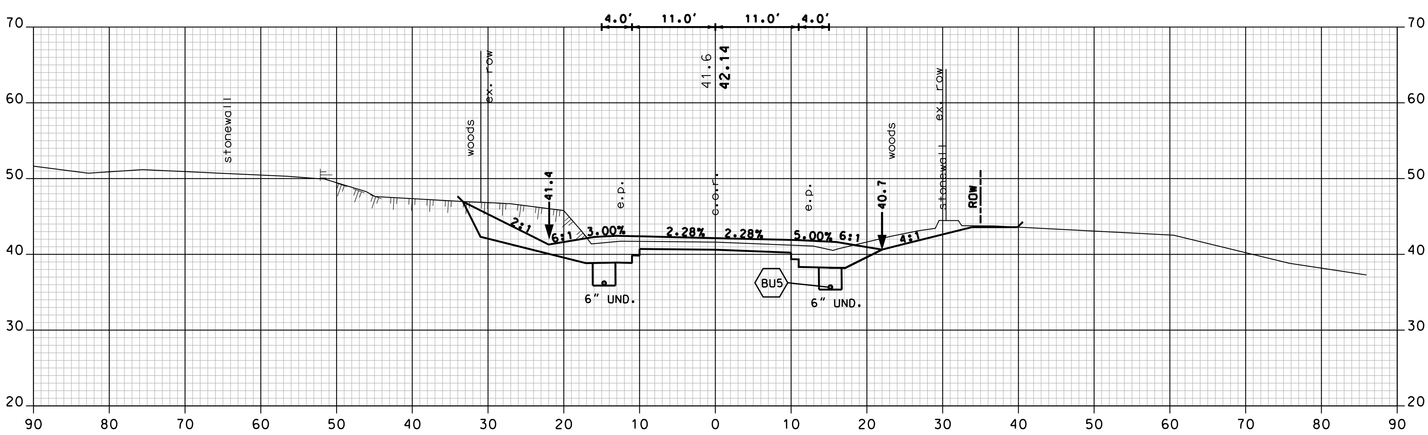
634+90 (DRIVE LT.)



634+75



634+50



634+25

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

NH ROUTE 108 - MCAM

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SHEET TOTALS

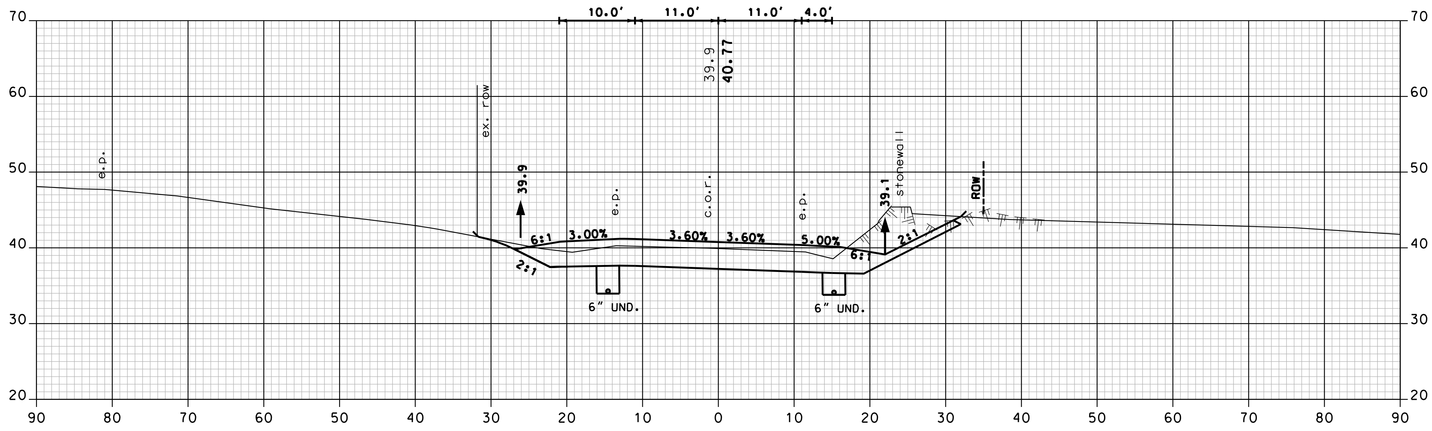
COMMON EXCAV.	358.4 C.Y.	ROCK EXCAV.	139.9 C.Y.
FILL	0.6 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	108A	119

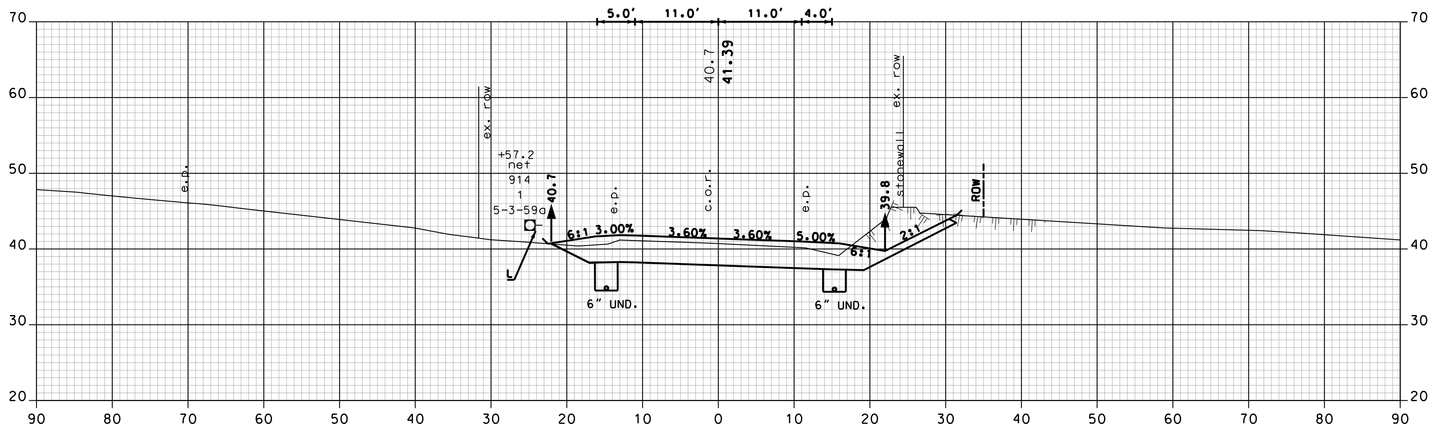
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

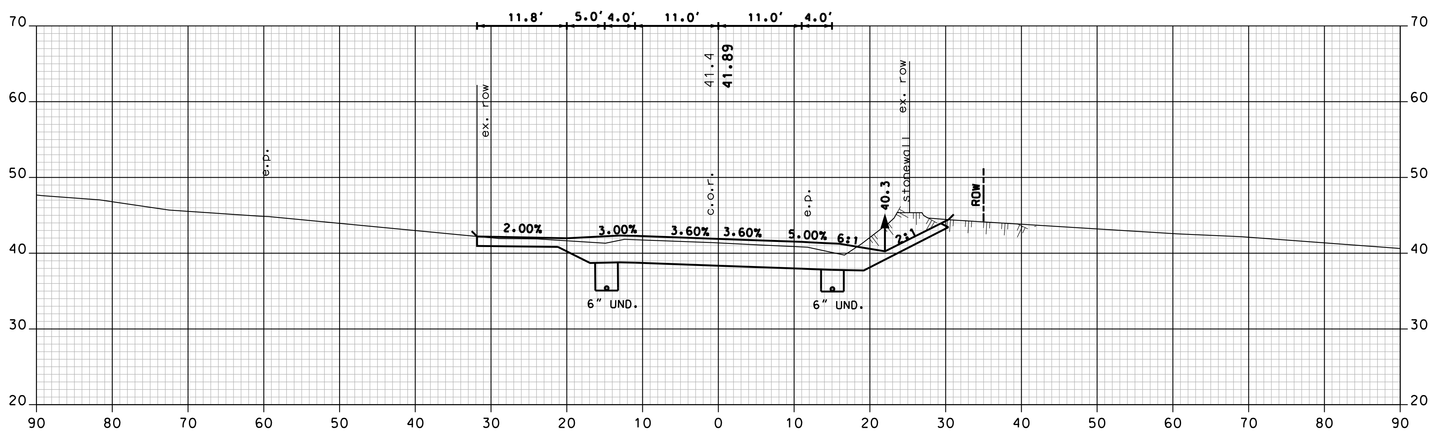
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



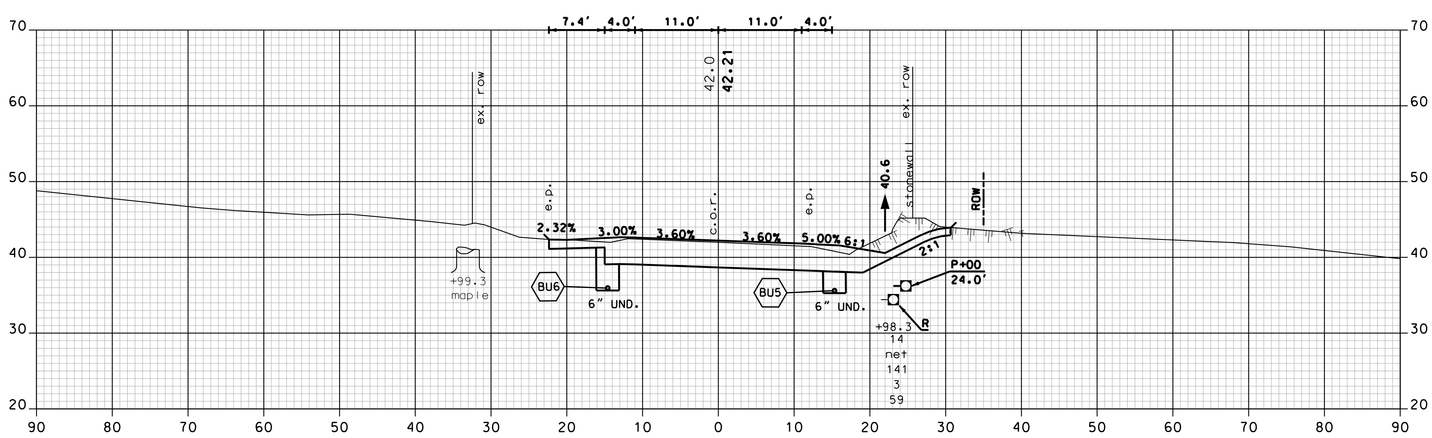
635+75



635+50



635+25 (DRIVE LT.)



635+00 (DRIVE LT.)

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

NH ROUTE 108 - MCAM

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SHEET TOTALS

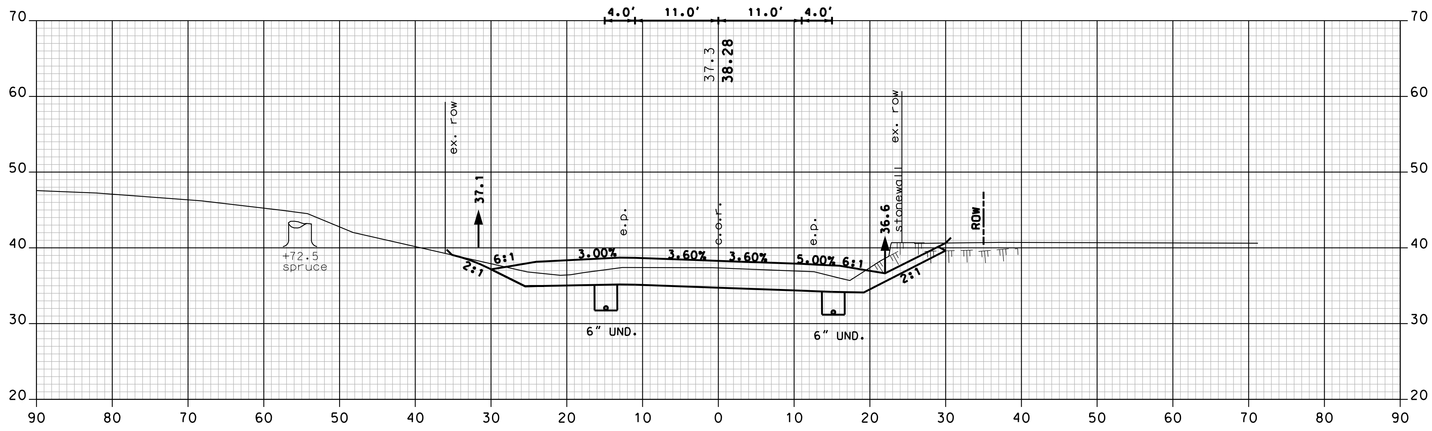
COMMON EXCAV.	425.6 C.Y.	ROCK EXCAV.	182.5 C.Y.
FILL	2.1 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	109A	119

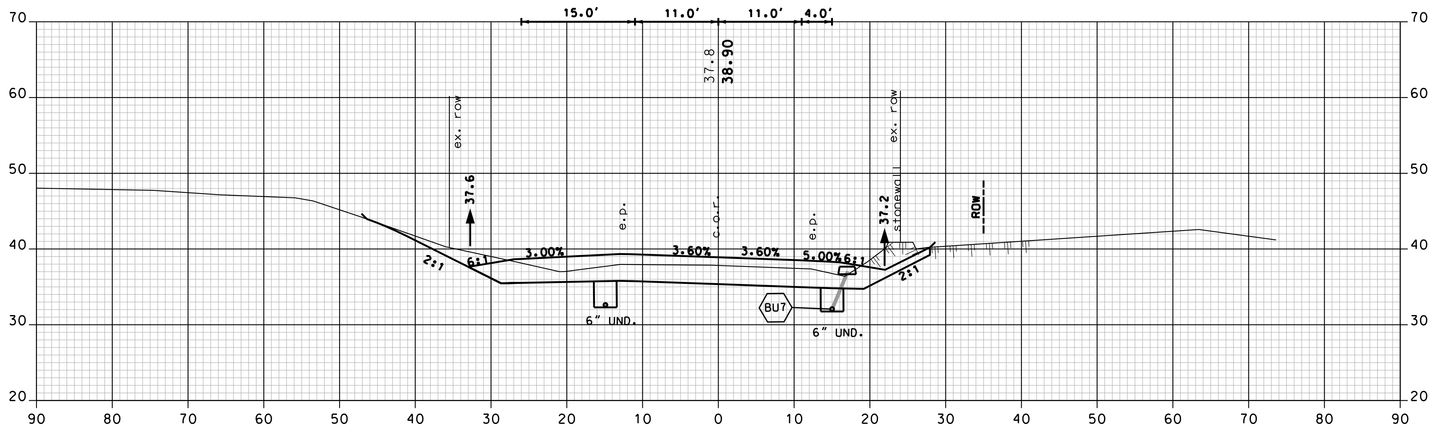
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

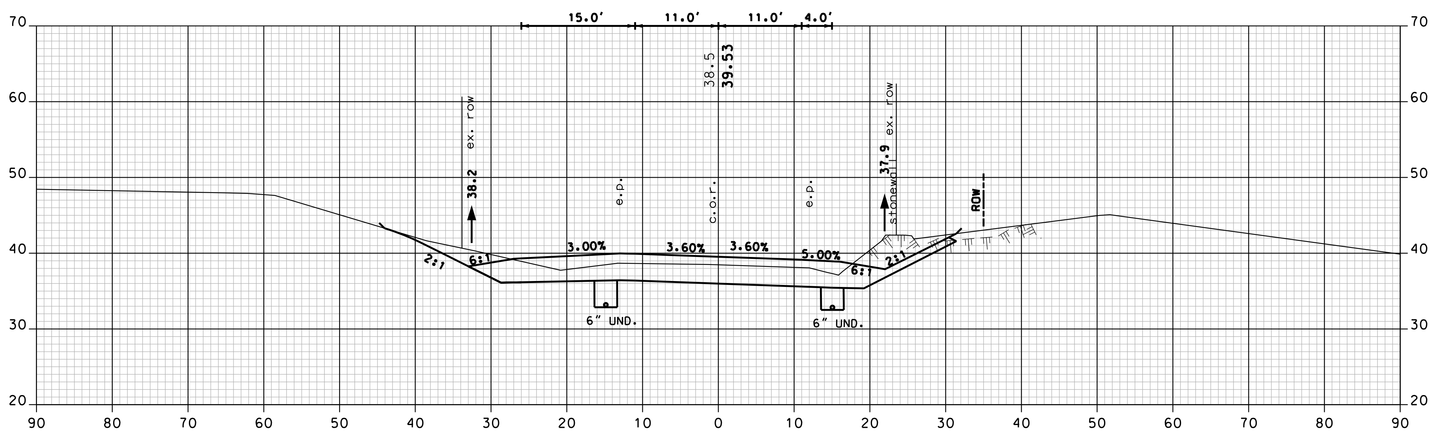
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



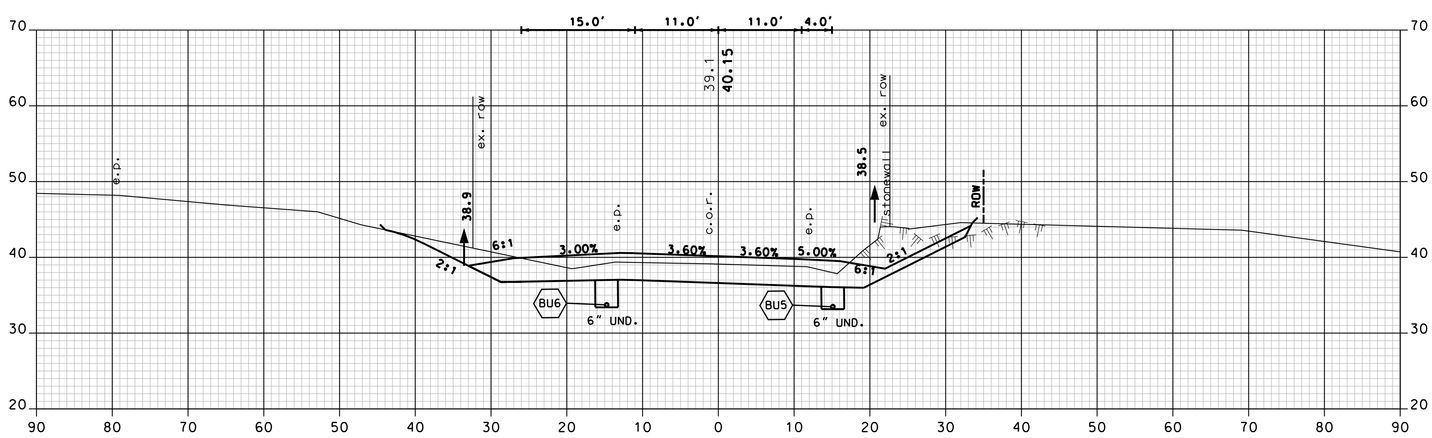
636+75



636+50



636+25



636+00

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

NH ROUTE 108 - MCAM

CHA
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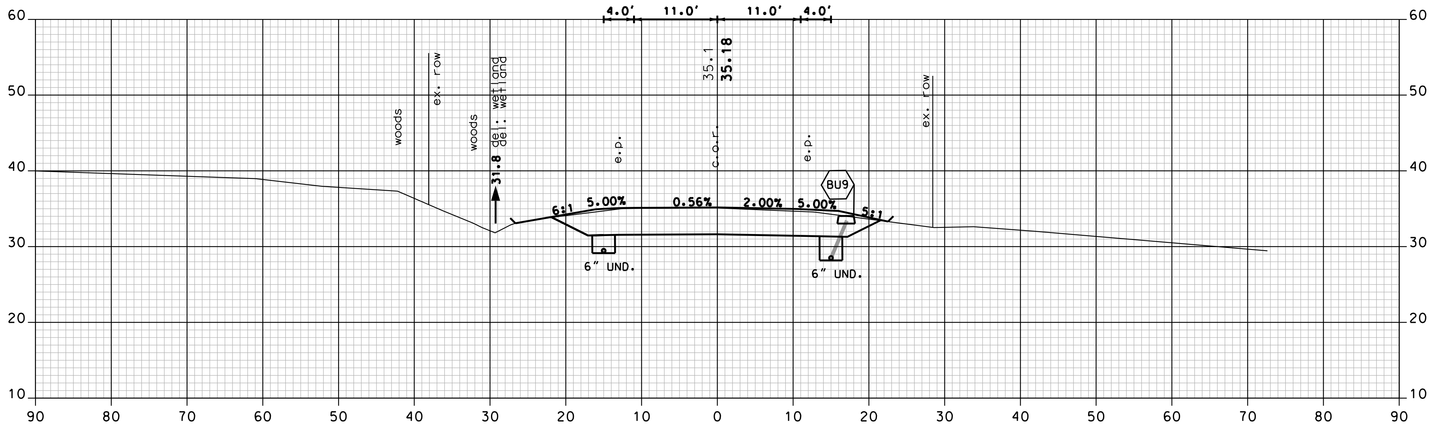
SHEET TOTALS			
COMMON EXCAV.	442.8 C.Y.	ROCK EXCAV.	123.8 C.Y.
FILL	2.7 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	110A	119

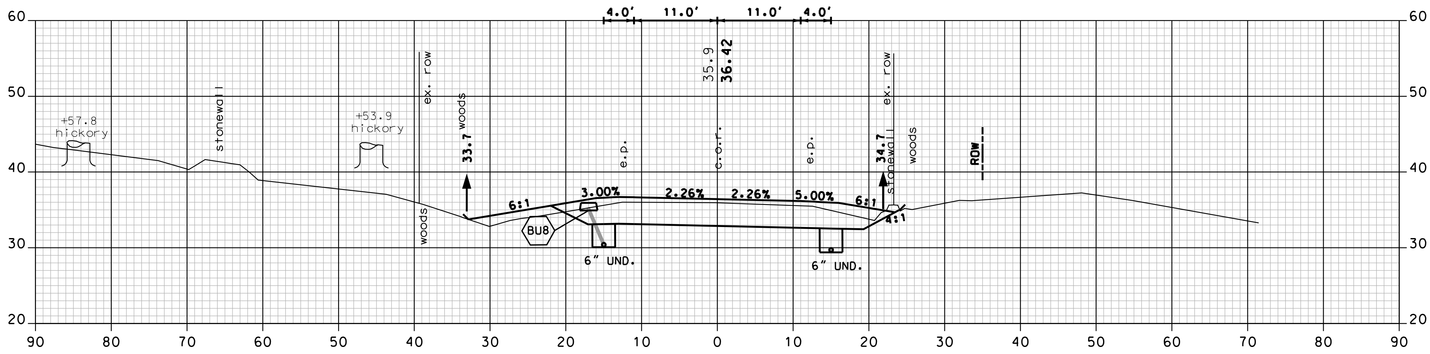
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

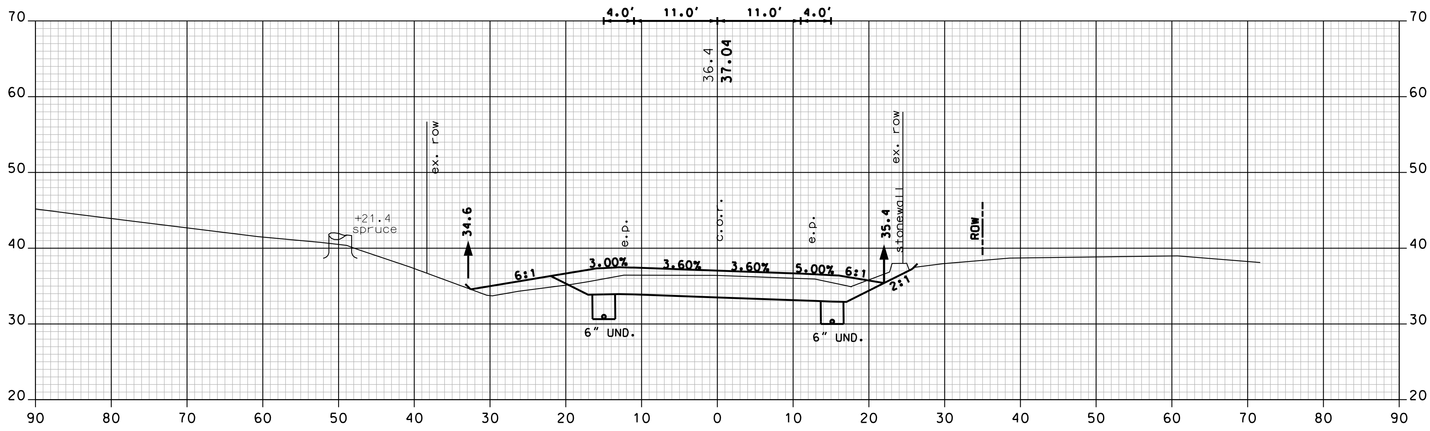
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



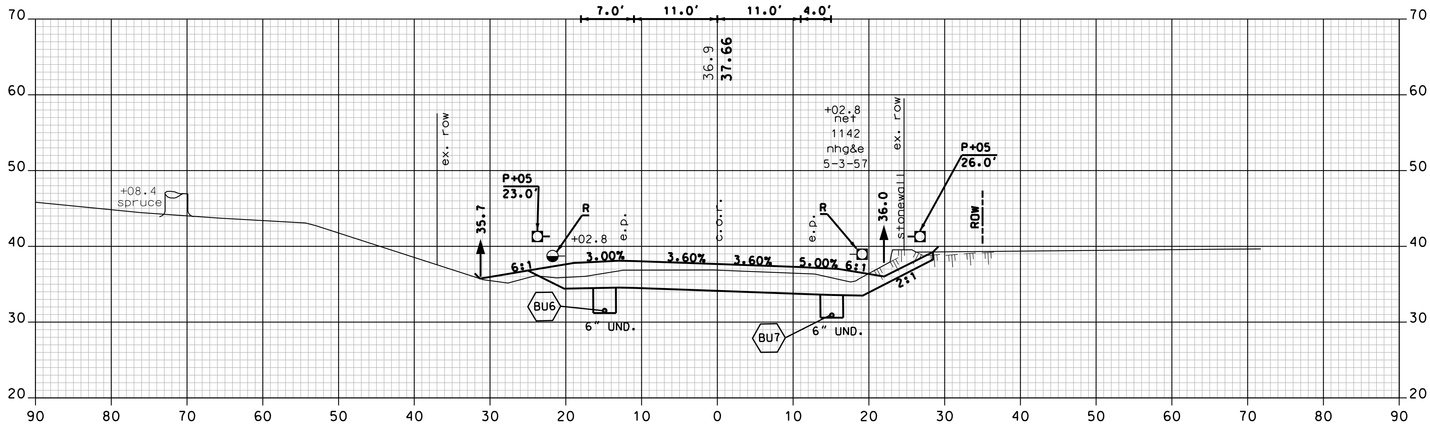
638+00



637+50



637+25



637+00

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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NH ROUTE 108 - MCAM

SHEET TOTALS

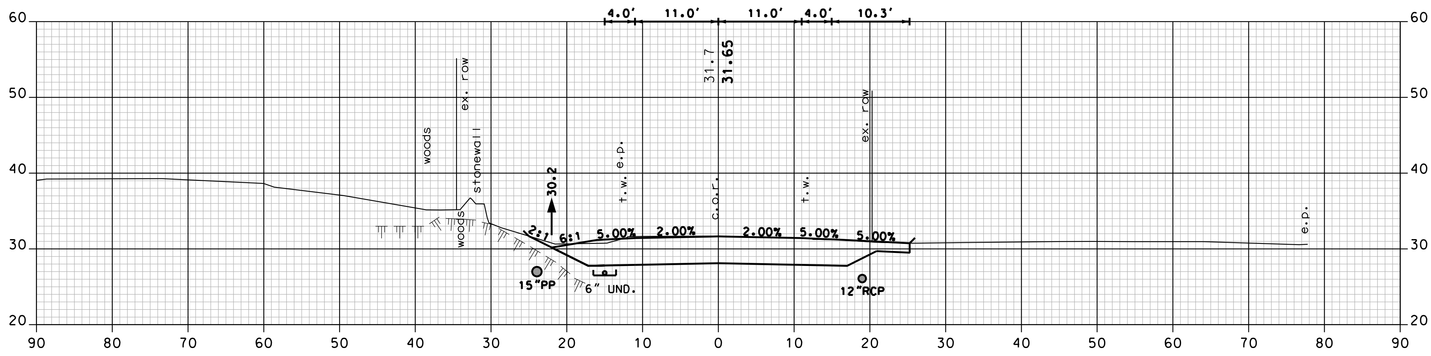
COMMON EXCAV.	655.2 C.Y.	ROCK EXCAV.	10.1 C.Y.
FILL	35.0 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	111A	119

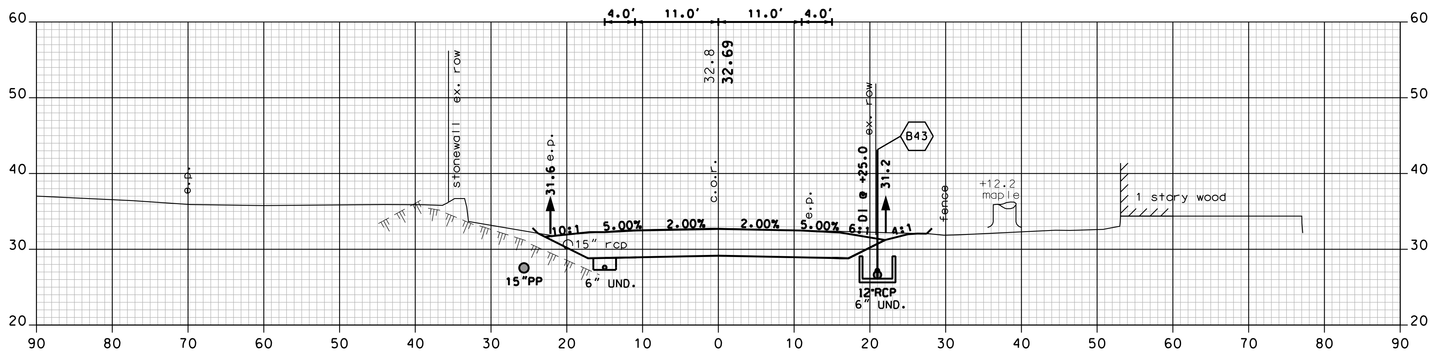
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

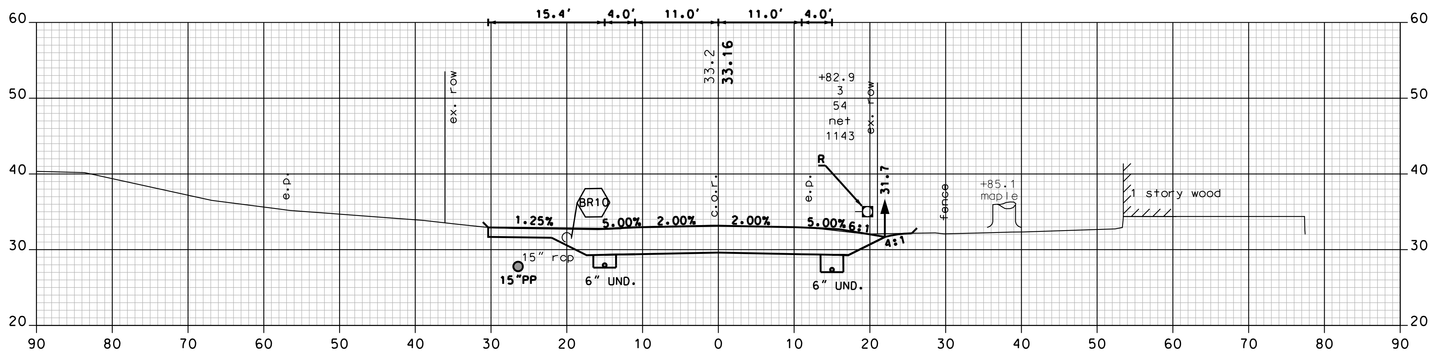
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



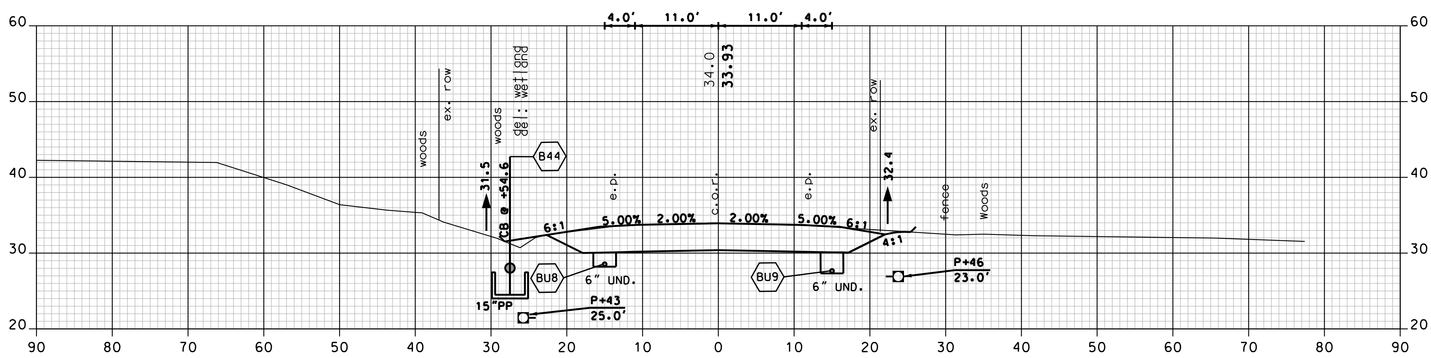
639+42 (DRIVE RT.)



639+00



638+81 (DRIVE LT.)



638+50

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

NH ROUTE 108 - MCAM

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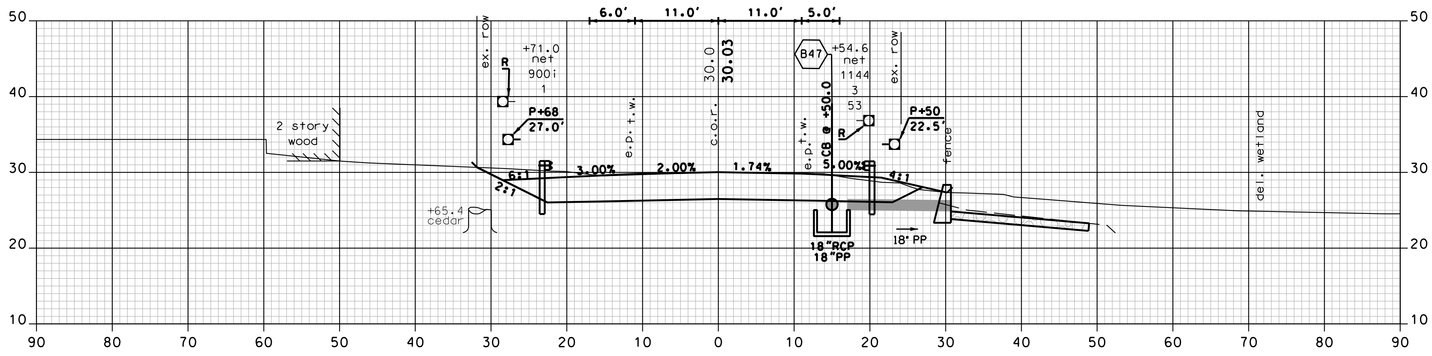
SHEET TOTALS			
COMMON EXCAV.	517.0 C.Y.	ROCK EXCAV.	0.0 C.Y.
FILL	2.8 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	112A	119

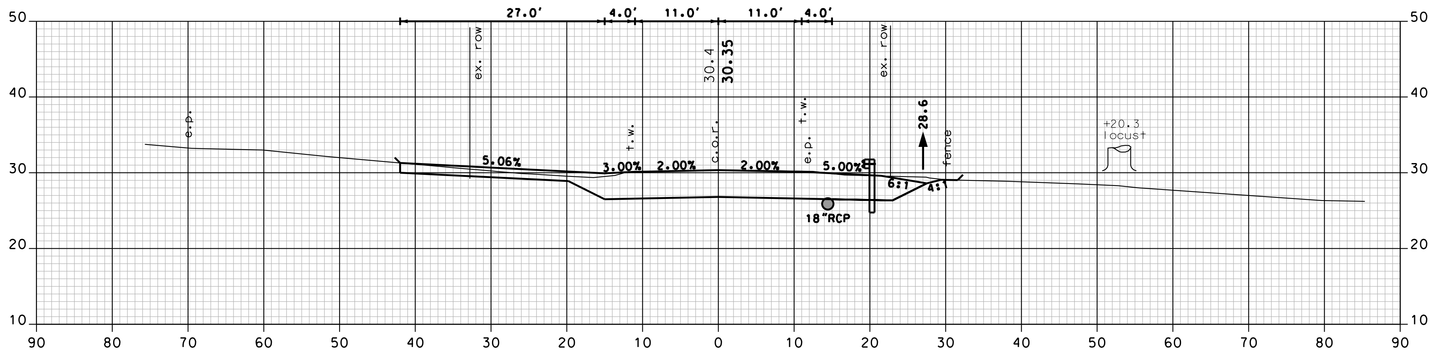
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

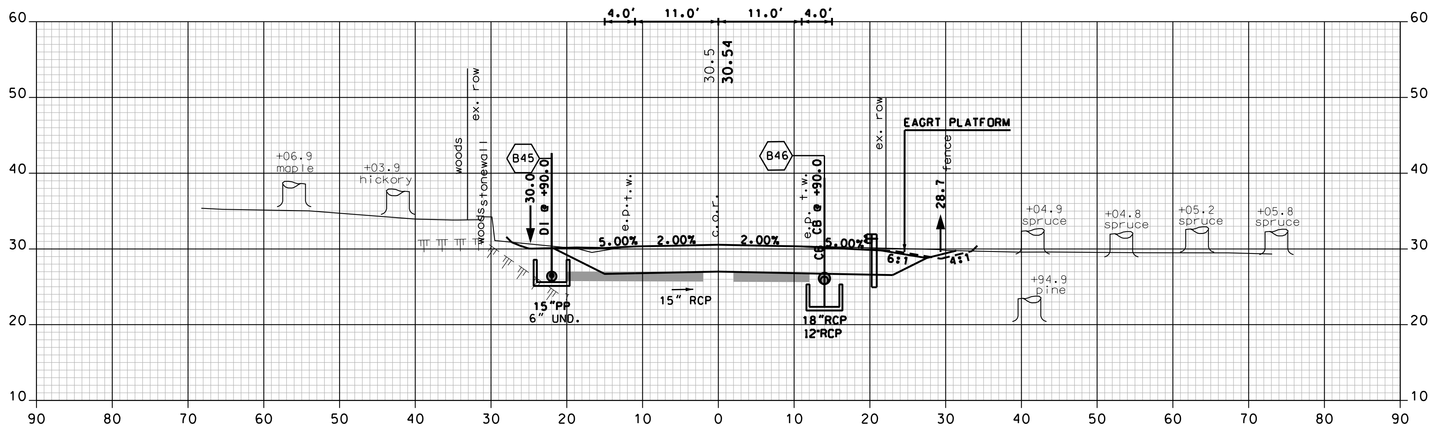
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



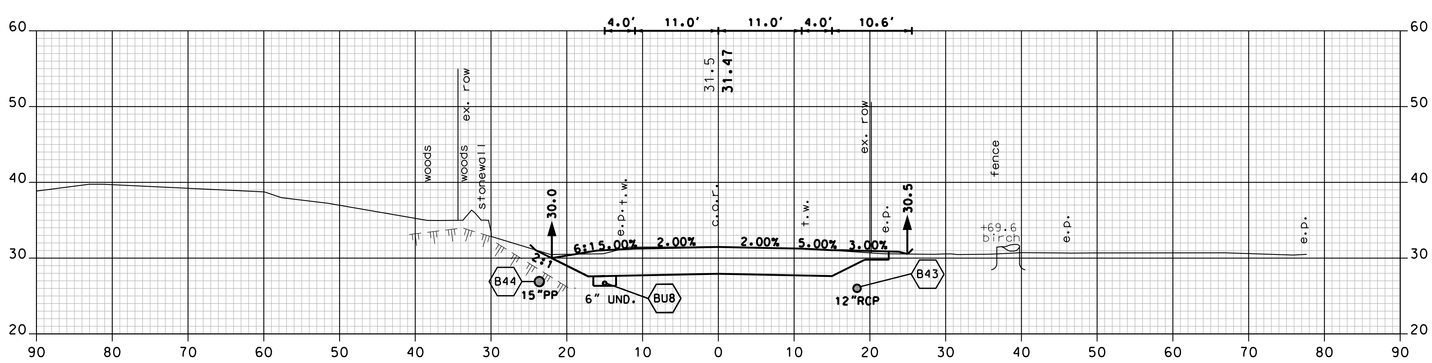
640+50



640+15 (DRIVE LT.)



640+00



639+50 (DRIVE RT.)

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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NH ROUTE 108 - MCAM

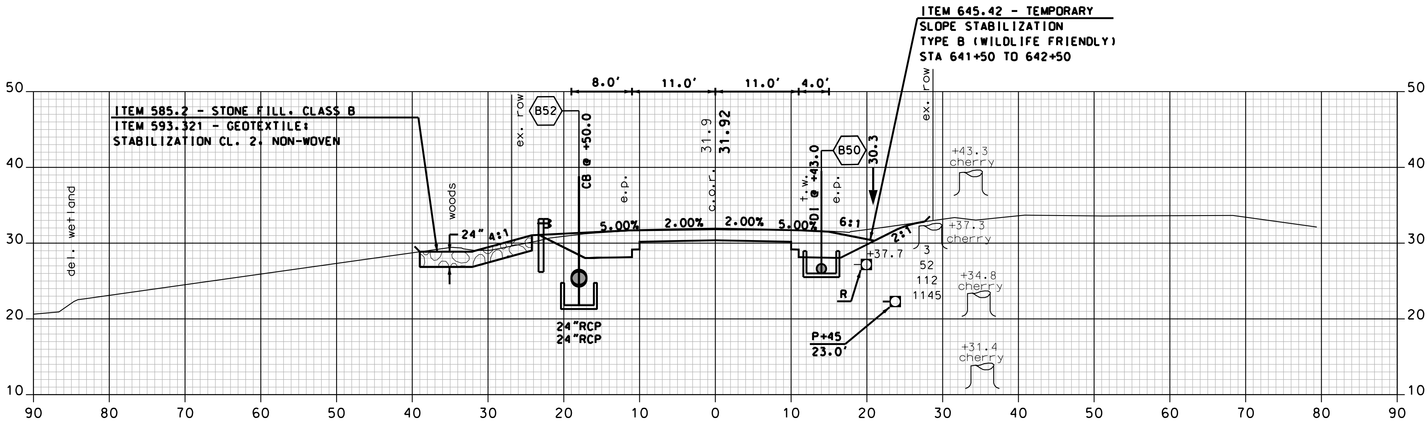
SHEET TOTALS			
COMMON EXCAV.	750.2 C.Y.	ROCK EXCAV.	0.0 C.Y.
FILL	1.8 C.Y.	MUCK EXCAV.	0.0 C.Y.

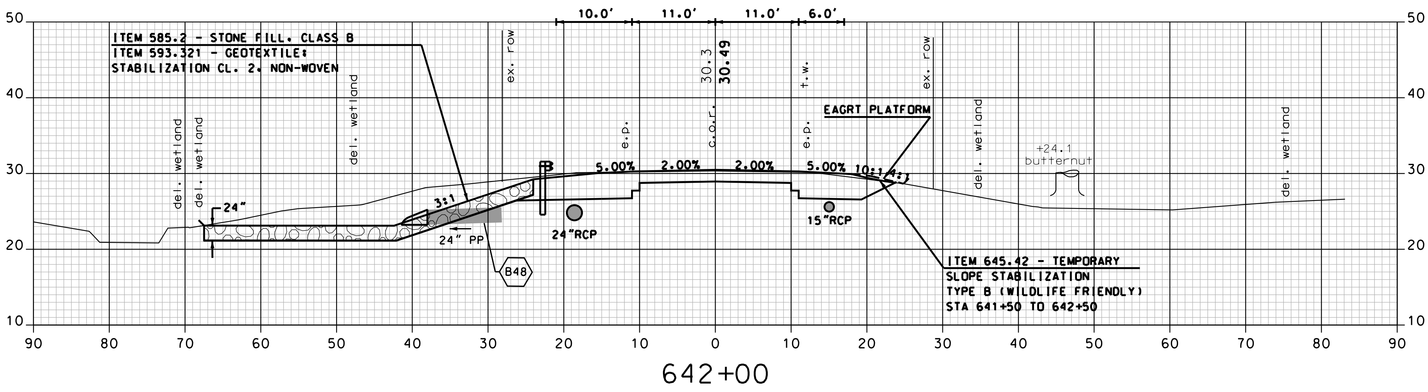
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	113A	119

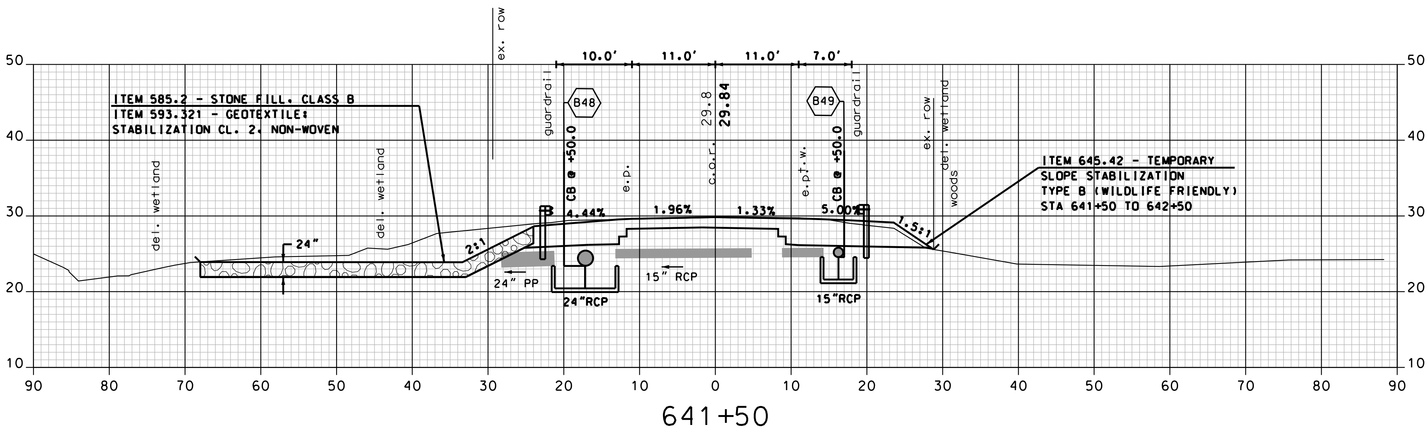
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

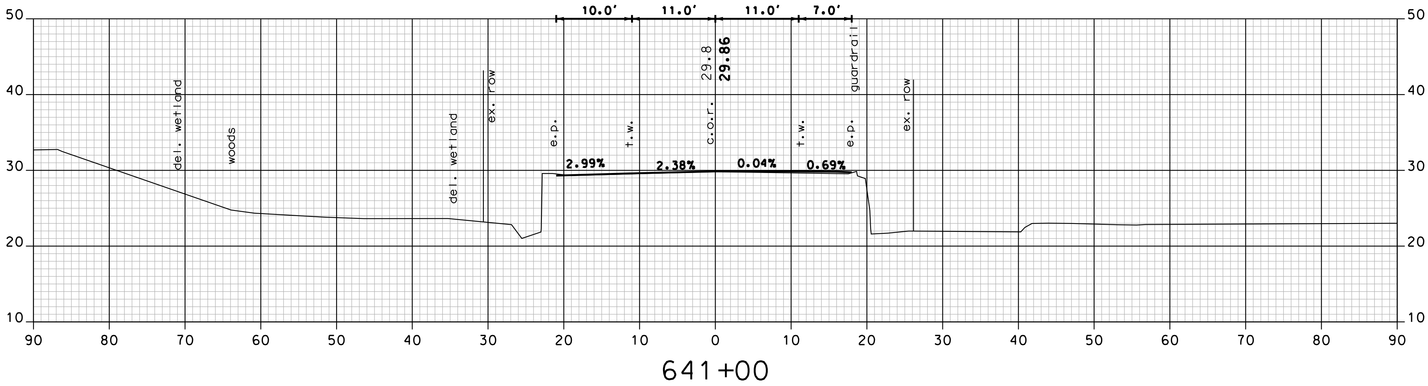
REVISIONS AFTER PROPOSAL

NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00









2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

NH ROUTE 108 - MCAM

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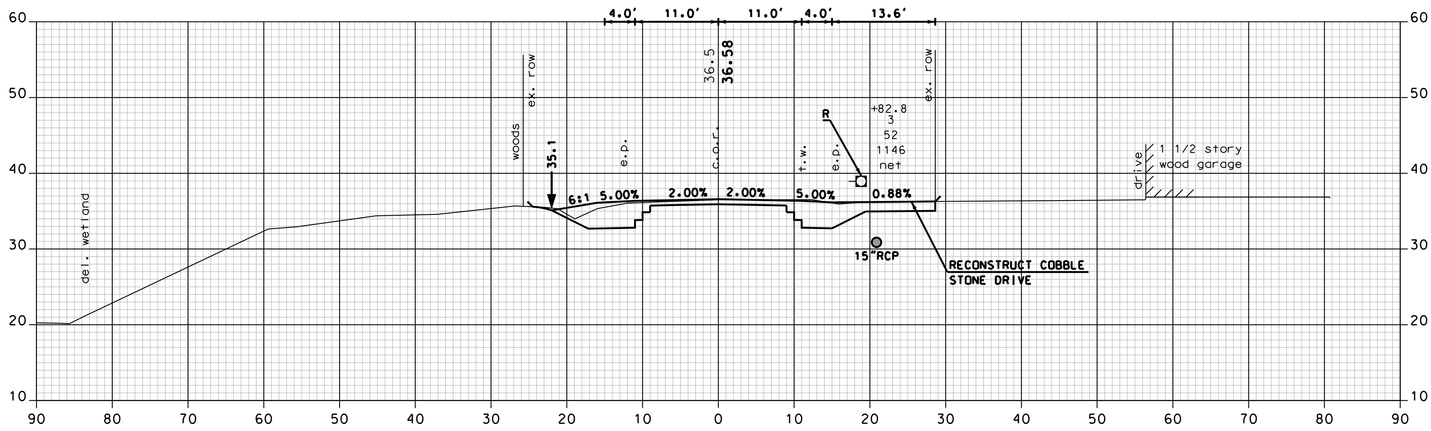
SHEET TOTALS			
COMMON EXCAV.	1014.3 C.Y.	ROCK EXCAV.	0.0 C.Y.
FILL	0.8 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	114A	119

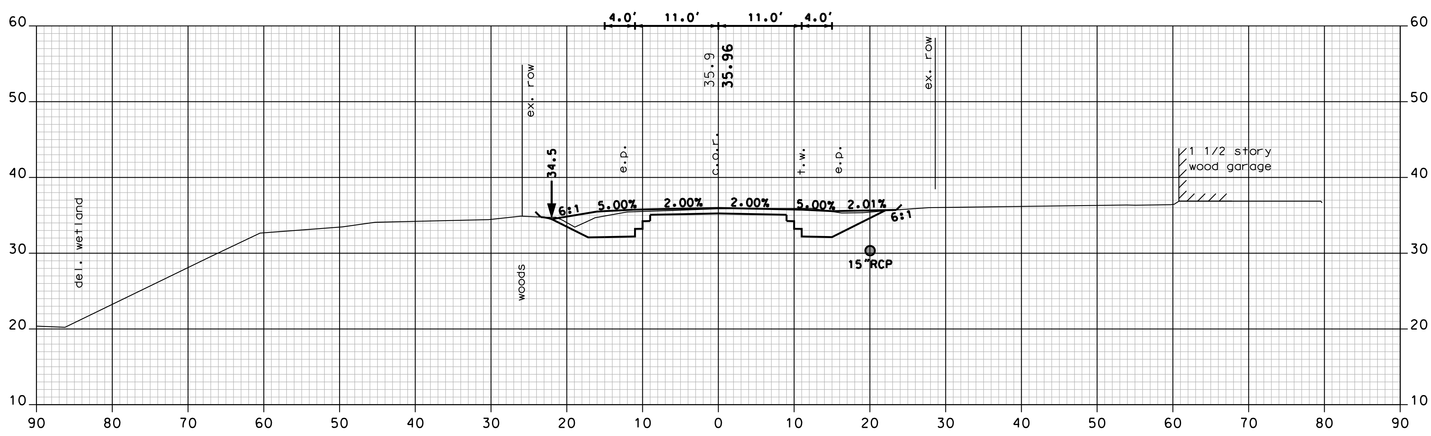
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

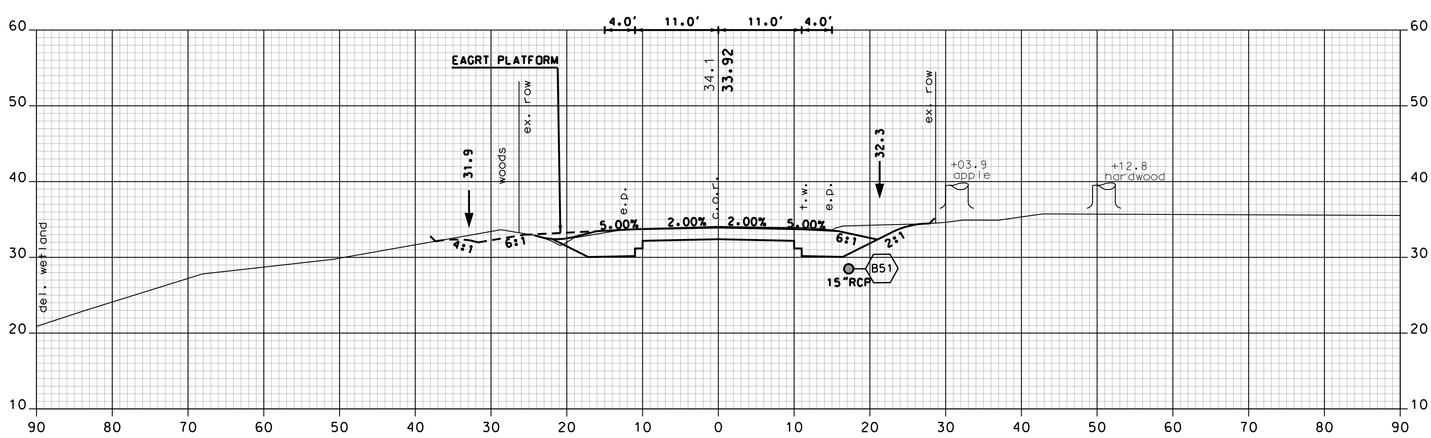
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



643+65 (DRIVE RT.)



643+50



643+00

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

NH ROUTE 108 - MCAM

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SHEET TOTALS

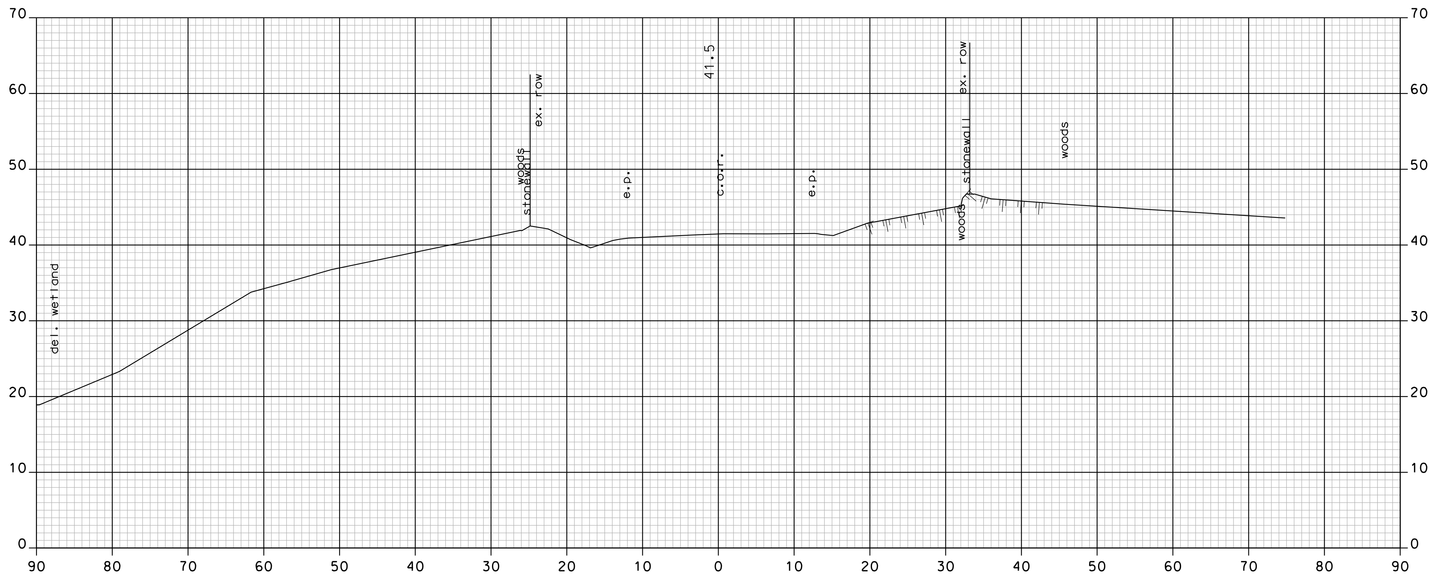
COMMON EXCAV.	225.5 C.Y.	ROCK EXCAV.	0.0 C.Y.
FILL	0.5 C.Y.	MUCK EXCAV.	0.0 C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	115A	119

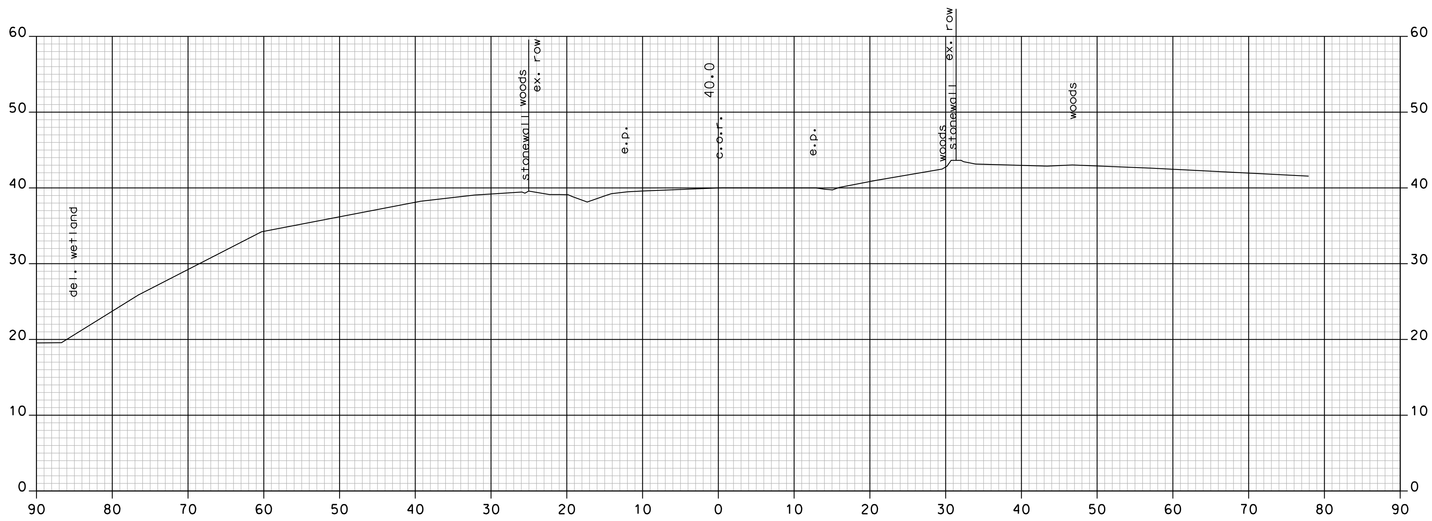
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

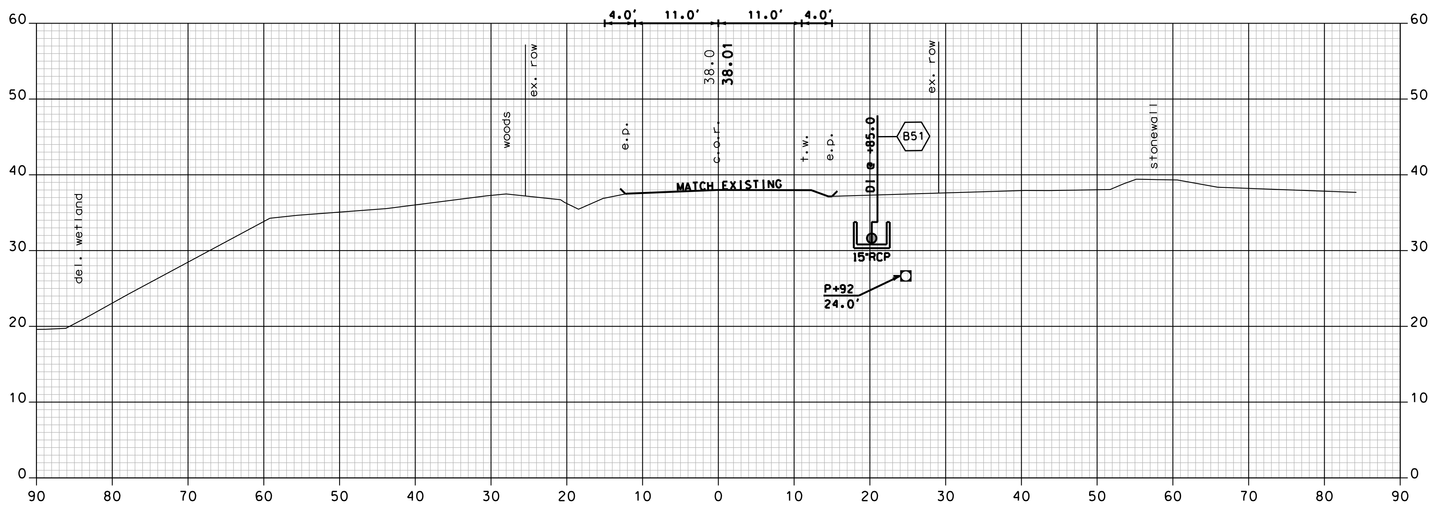
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	8/3/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



644+75



644+50



644+00

2 REVISION AFTER PROPOSAL REVISES CROSS SECTIONS AND DRAINAGE FROM STATION 554+00 TO 577+00 AND 617+00 TO 644+00.

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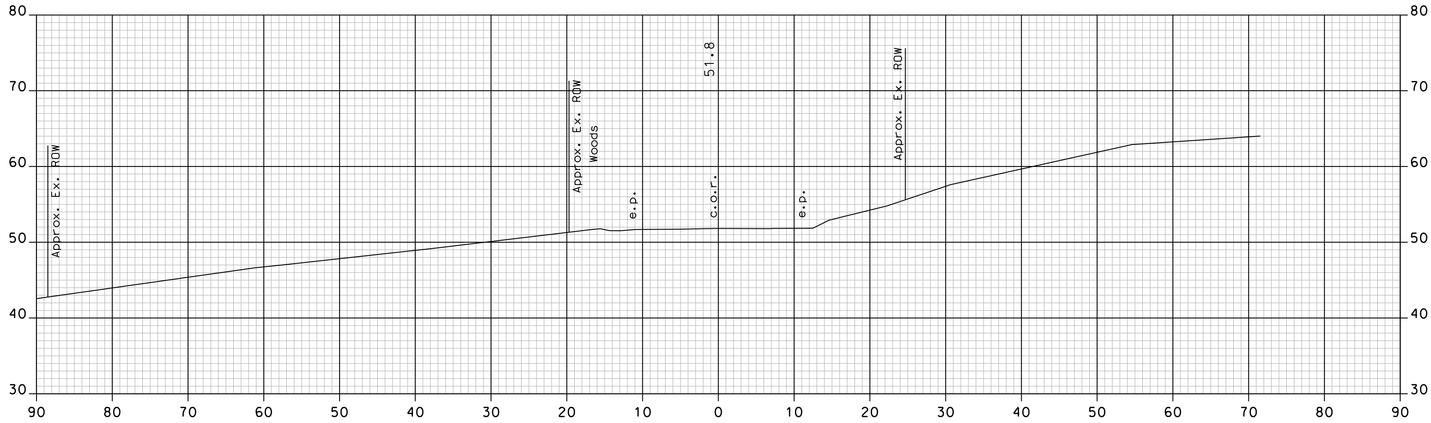
NH ROUTE 108 - MCAM

SHEET TOTALS			
COMMON EXCAV. 0.0 C.Y.		ROCK EXCAV. 0.0 C.Y.	
FILL 0.0 C.Y.		MUCK EXCAV. 0.0 C.Y.	
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCAM_XS_RAP2.dgn	13080A	116A	119

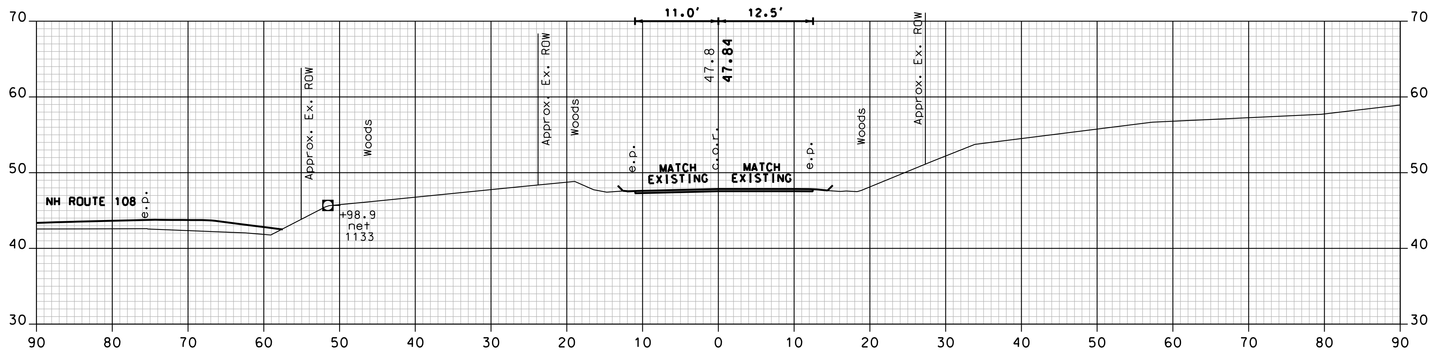
SDR PROCESSED	NHDOT	DATE	02/10
NEW DESIGN	P.R.P.	DATE	8/15
SHEET CHECKED	J.P.	DATE	8/15
AS BUILT DETAILS		DATE	

REVISIONS AFTER PROPOSAL

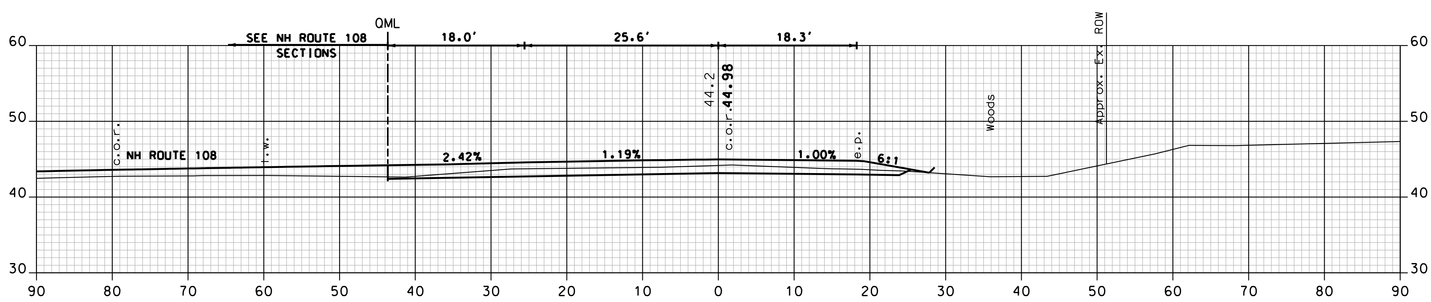
NUMBER	DATE	STATION	STATION	DESCRIPTION
2	7/24/2015	554+00	644+00	PROFILE REVISION FROM STA 554+00 TO 577+00 & 617+00 TO 644+00



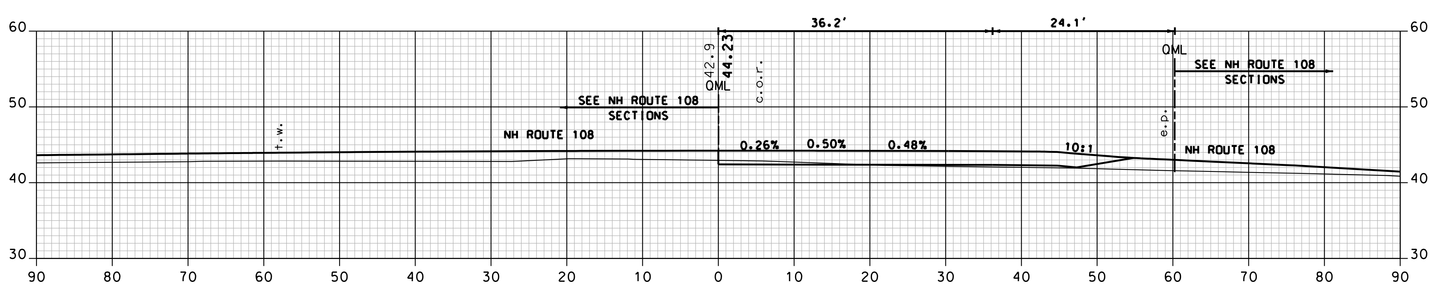
21+50



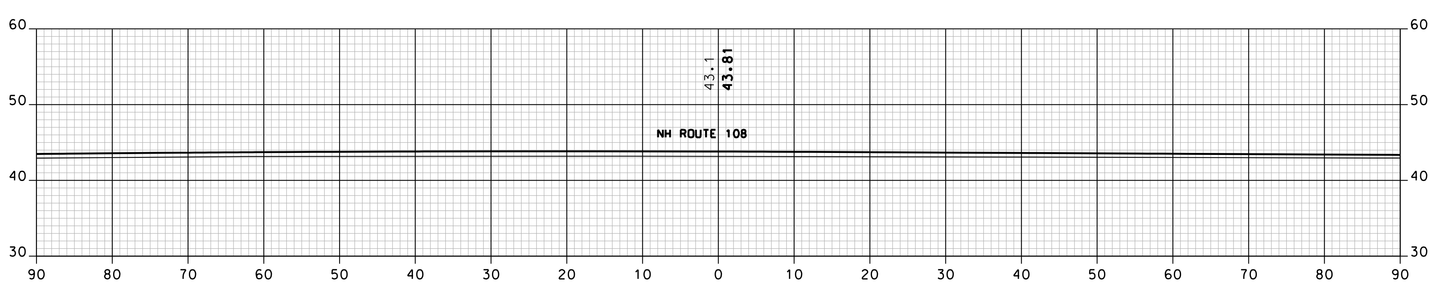
21+00



20+50



20+21



20+00

2 REVISION AFTER PROPOSAL
REVISES CROSS SECTIONS
FROM STATION 20+00 TO 21+00.

BENNETT ROAD - MCBA

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SHEET TOTALS			
COMMON EXCAV.	85.6 C.Y.	ROCK EXCAV.	– C.Y.
FILL	19.0 C.Y.	MUCK EXCAV.	– C.Y.

DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
13080A_MCBA_XS_RAP2.dgn	13080A	118A	119