

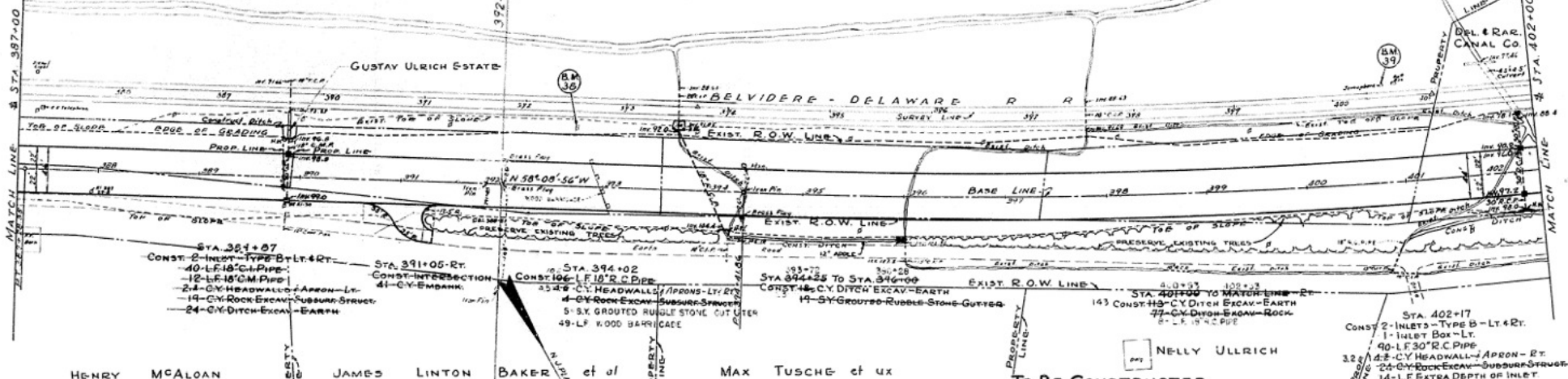
DELAWARE TOWNSHIP

KINGWOOD

TOWNSHIP

CANAL FEEDER
NOT TO BE INCLUDED IN THIS CONTRACT BEGINNING OF THIS CONTRACT

CURVE DATA
 $\Delta = 20^\circ 27' 07''$
 $R = 6,000.00'$
 $T = 1,052.39'$
 $L = 2,141.75'$
 $D = 0^\circ 57' 18''$



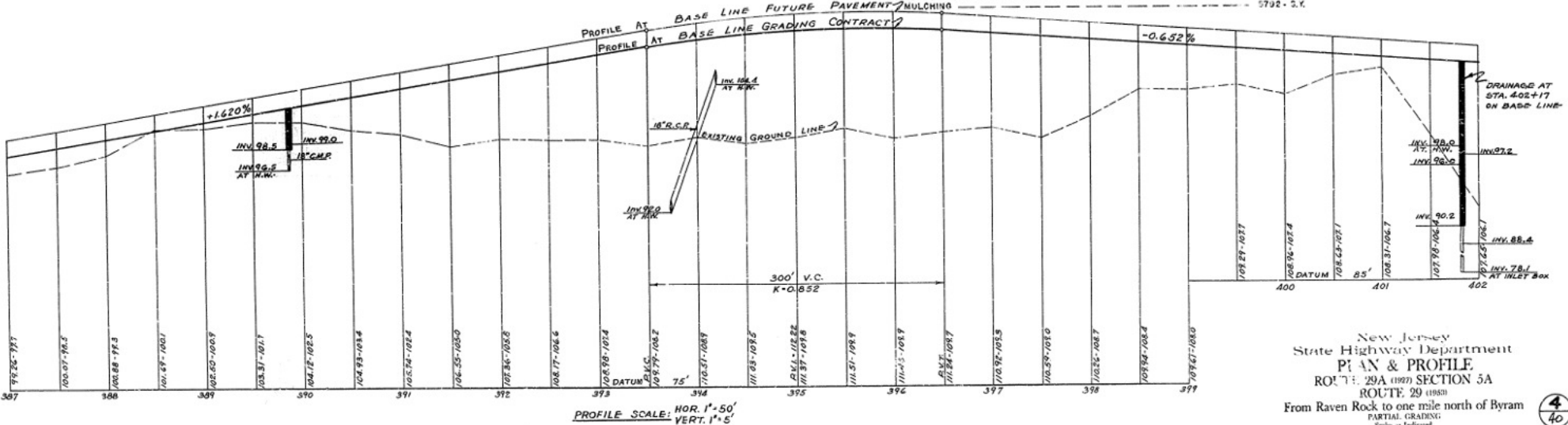
BM#38 - El. 98.94
 SPIKE IN POLE - STA. 392+51-24'
 RT OF SURVEY LINE
 BM#39 - El. 95.56
 S.E. COR. OF BASE OF SEMAPHORE
 *B-23 - STA. 400+50 - 12' LT. OF SURVEY LINE.

TO BE CONSTRUCTED

DITCH EXCAVATION - EARTH	434 - C.Y.
DITCH EXCAVATION - ROCK	77 - C.Y.
ROCK EXCAVATION - SUBSURFACE STRUCTURES	28 - C.Y.
18" REINFORCED CONCRETE CULVERT PIPE	106 - LF
30" REINFORCED CONCRETE CULVERT PIPE	90 - LF
18" CAST IRON CULVERT PIPE - EXTRA HEAVY	40 - LF
18" CORRUGATED METAL CULVERT PIPE - BITUMINOUS COATED	12 - LF
INLET - TYPE B	2 - UNITS
INLET BOX	1 - UNIT
EXTRA DEPTH OF INLET - BELOW 8 FEET	14 - LF
GROUTED RUBBLE STONE GUTTER	19 - SY. 5
HEADWALLS	62 - C.Y. 7.7
EMBANKMENT	41 - C.Y.
WOOD BARRICADE	49 - LF
4" TOPSOILING	5792 - S.Y.
MULCHING	5792 - S.Y.

CARLTON COOLEY

FOR CROSS SECTIONS
 See SHEETS 13, 14 & 15



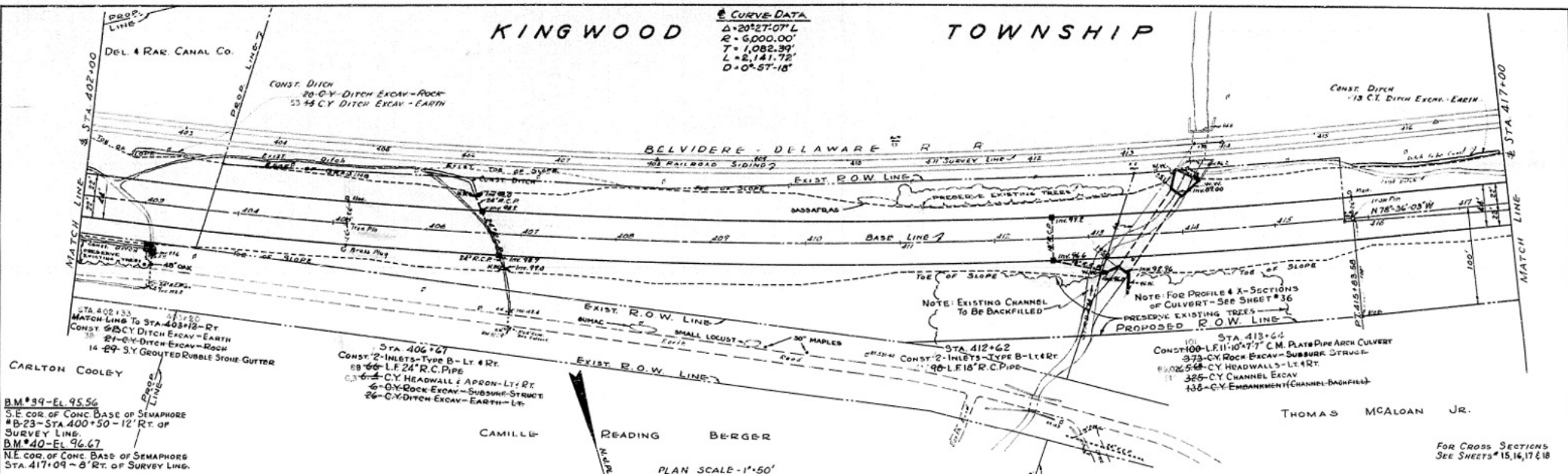
PROFILE SCALE: HOR. 1"=50'
 VERT. 1"=5'

New Jersey
 State Highway Department
PLAN & PROFILE
 ROUTE 29A (over SECTION 5A
 ROUTE 29 (1185)
 From Raven Rock to one mile north of Byram
 PARTIAL GRADING
 Scale as Indicated

BOOKS 11010-SHERMAN, TAYLOR & SLEEPER, MERCHANTVILLE, N. J.

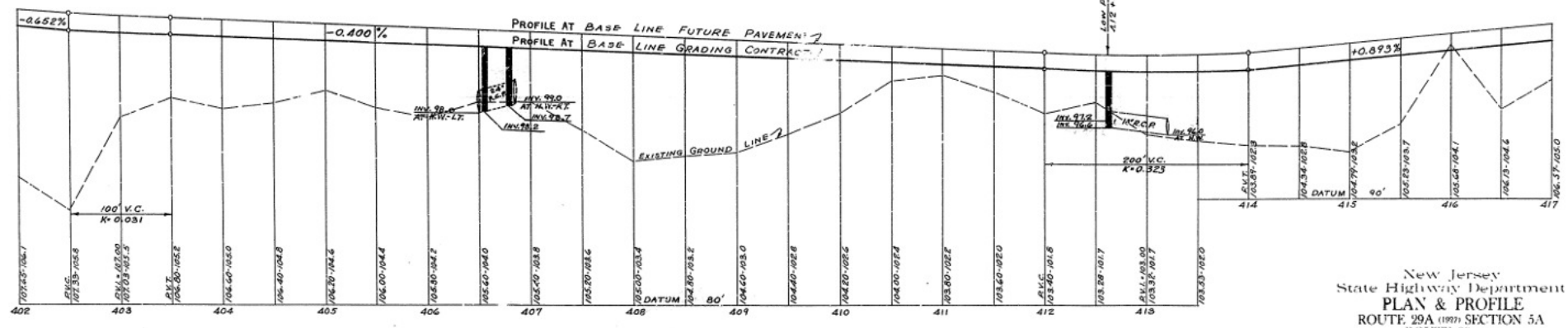
1008 004 040

BOOKS 110-SHERMAN, TAYLOR & SLEEPER, MERCHANTVILLE, N. J.



TO BE CONSTRUCTED

CHANNEL EXCAVATION	325-CY
DITCH EXCAVATION - EARTH	127-CY
DITCH EXCAVATION - ROCK	41-CY
ROCK EXCAVATION - SUBSURFACE STRUCTURES	379-CY
18" REINFORCED CONCRETE CULVERT PIPE	98-LF
24" REINFORCED CONCRETE CULVERT PIPE	66-LF
11" 10" 7" C.M. PLATE PIPE-ARCH CULVERT	100-LF
INLET - TYPE B	4-UNITS
GROUTED RUBBLE STONE GUTTER	24-SY
HEADWALLS	72-08-CY
EMBANKMENT	135-CY
MULCHING	1,590-SY



PROFILE SCALE: HOR. 1" = 50', VERT. 1" = 5'

New Jersey
 State Highway Department
PLAN & PROFILE
 ROUTE 29A (1927) SECTION 5A
 ROUTE 29 (1953)
 From Raven Rock to one mile north of Byram
 PARTIAL GRADING
 Scale as Indicated

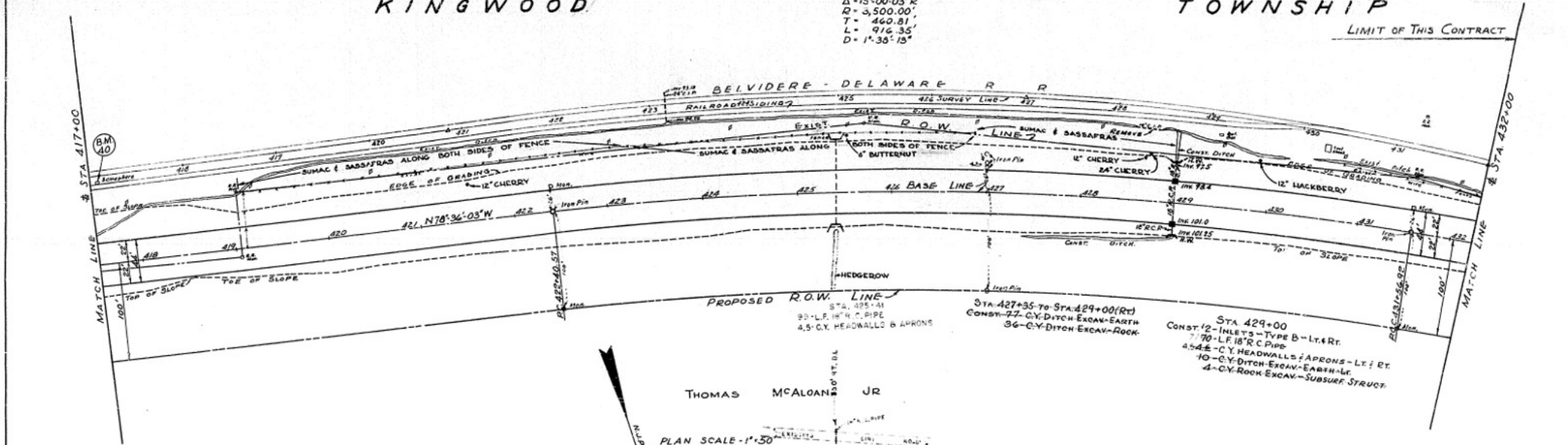
1008 005 040

KINGWOOD

TOWNSHIP

CURVE DATA
 $\Delta = 15^{\circ}00'03''R$
 $R = 3,500.00'$
 $T = 460.81'$
 $L = 916.35'$
 $D = 1^{\circ}36'15''$

LIMIT OF THIS CONTRACT



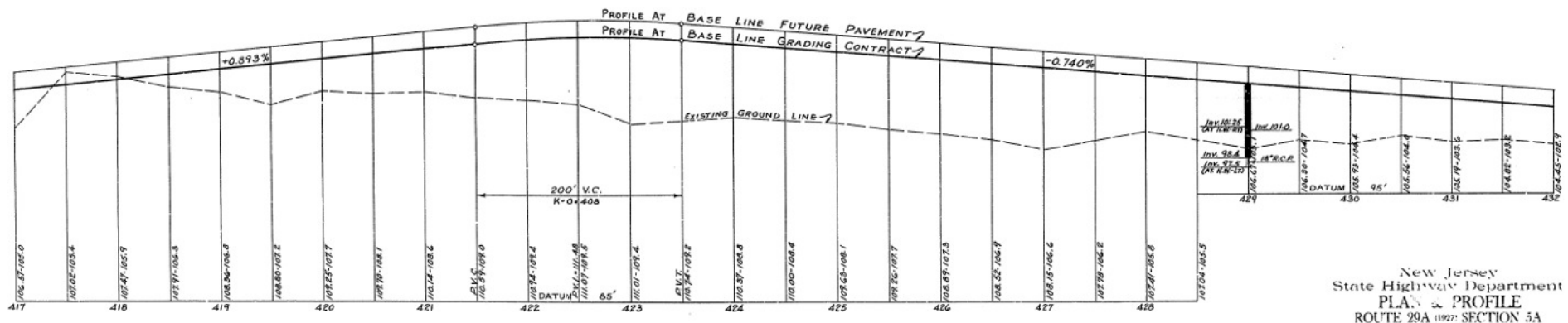
B.M. #40 - El. 96.67
 NE COR. OF CONC. BASE OF SEMAPHORE - STA. 417+09 - 8' Rt. OF SURVEY LINE.

PLAN SCALE - 1" = 50'

To Be Constructed

DITCH EXCAVATION - EARTH	67 - C.Y.
DITCH EXCAVATION - ROCK	36 - C.Y.
ROCK EXCAVATION - SUBSURFACE STRUCTURES	4 - C.Y.
18" REINFORCED CONCRETE CULVERT PIPE	70 - L.F.
INLET - TYPE B	2 - UNITS
HEADWALLS & APRONS	4 - C.Y. 90
4" TOPSULCING	8708 - S.Y.
MULCHING	8708 - S.Y.
WOOD BARRICADE	81 - L.F.

For Cross Sections See Sheets #18, 19 & 20



PROFILE SCALE: HOR. 1" = 50'
 VERT. 1" = 5'

New Jersey State Highway Department
 PLAN & PROFILE
 ROUTE 29A (1927) SECTION 5A
 ROUTE 29 (1930)
 From Raven Rock to one mile north of Byram
 PARTIAL GRADING
 Scale as Indicated

BOOKS 1 to 10 - SHERMAN, TAYLOR & SLEEPER, MERCHANTVILLE, N. J.

1008 006 040

KINGWOOD

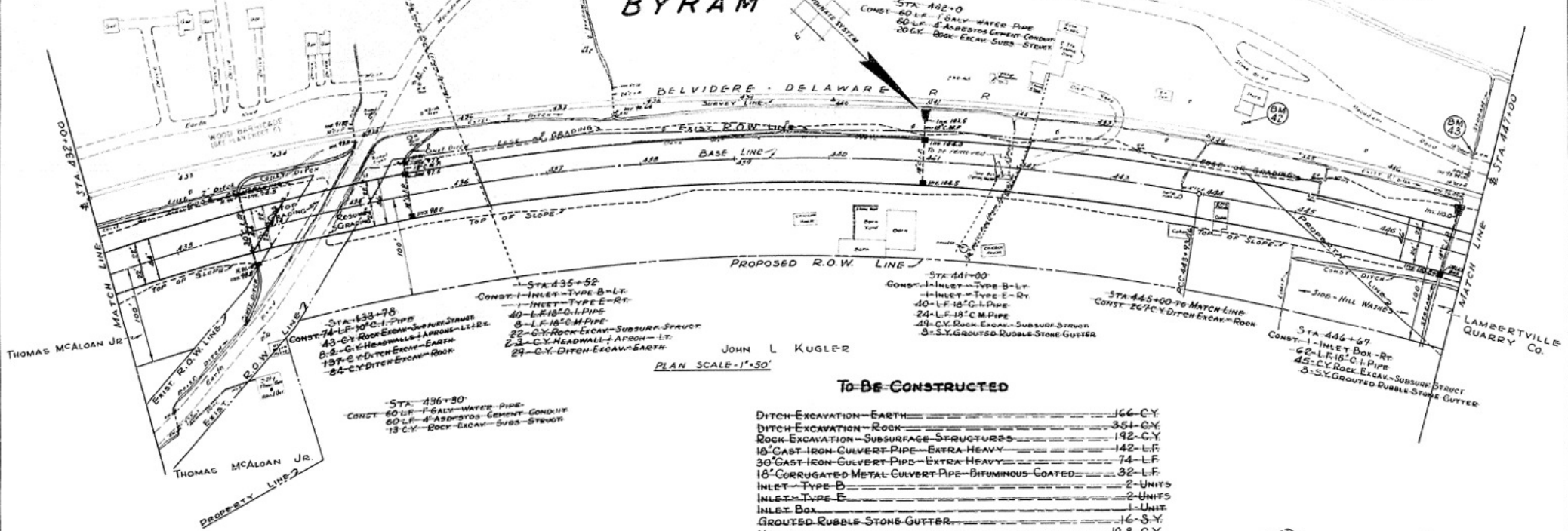
Curve Data
Δ = 29° 51' 16" R
R = 2,373.90'
T = 632.85'
L = 1,236.94'
D = 2° 24' 49"

NOT TO BE INCLUDED IN THIS CONTRACT

BYRAM

DELAWARE TOWNSHIP

Curve Data
Δ = 21° 12' 18" R
R = 3,024.09'
T = 766.20'
L = 1,119.44'
D = 1° 53' 39"



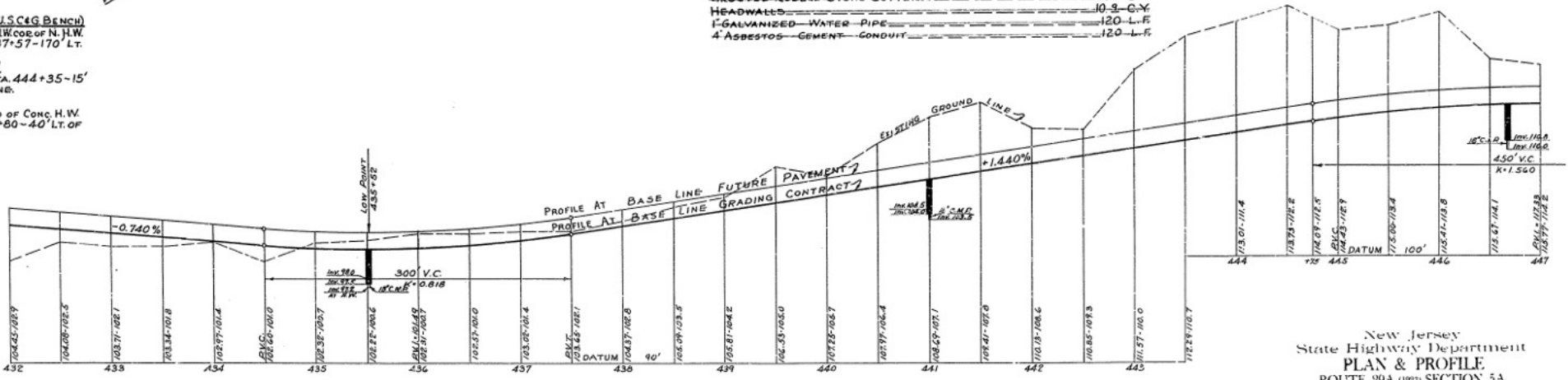
JOHN L. KUGLER

PLAN SCALE = 1" = 50'

To Be Constructed

DITCH EXCAVATION - EARTH	166 C.Y.
DITCH EXCAVATION - ROCK	354 C.Y.
ROCK EXCAVATION - SUBSURFACE STRUCTURES	192 C.Y.
18" CAST IRON CULVERT PIPE - EXTRA HEAVY	142 L.F.
30" CAST IRON CULVERT PIPE - EXTRA HEAVY	74 L.F.
18" CORRUGATED METAL CULVERT PIPE - BITUMINOUS COATED	32 L.F.
INLET - TYPE B	2 UNITS
INLET - TYPE E	2 UNITS
INLET BOX	1 UNIT
GRouted RUBBLE STONE GUTTER	16 S.Y.
HEADWALLS	10 S.Y.
1" GALVANIZED WATER PIPE	120 L.F.
4" ASBESTOS CEMENT CONDUIT	120 L.F.

BM #41 - EL. 93.53 (U.S.C&G BENCH)
 U.S.C&G MARKER IN NW COR. OF N.H.W. OF BRIDGE - STA. 437+57 - 170' LT. OF SURVEY LINE.
 BM #42 - EL. 100.67
 SPIKE IN POLE - STA. 444+35 - 15' LT. OF SURVEY LINE.
 BM #43 - EL. 97.32
 CROSS CUT IN S. END OF CONC. H.W. #K-11 - STA. 446+80 - 40' LT. OF SURVEY LINE.



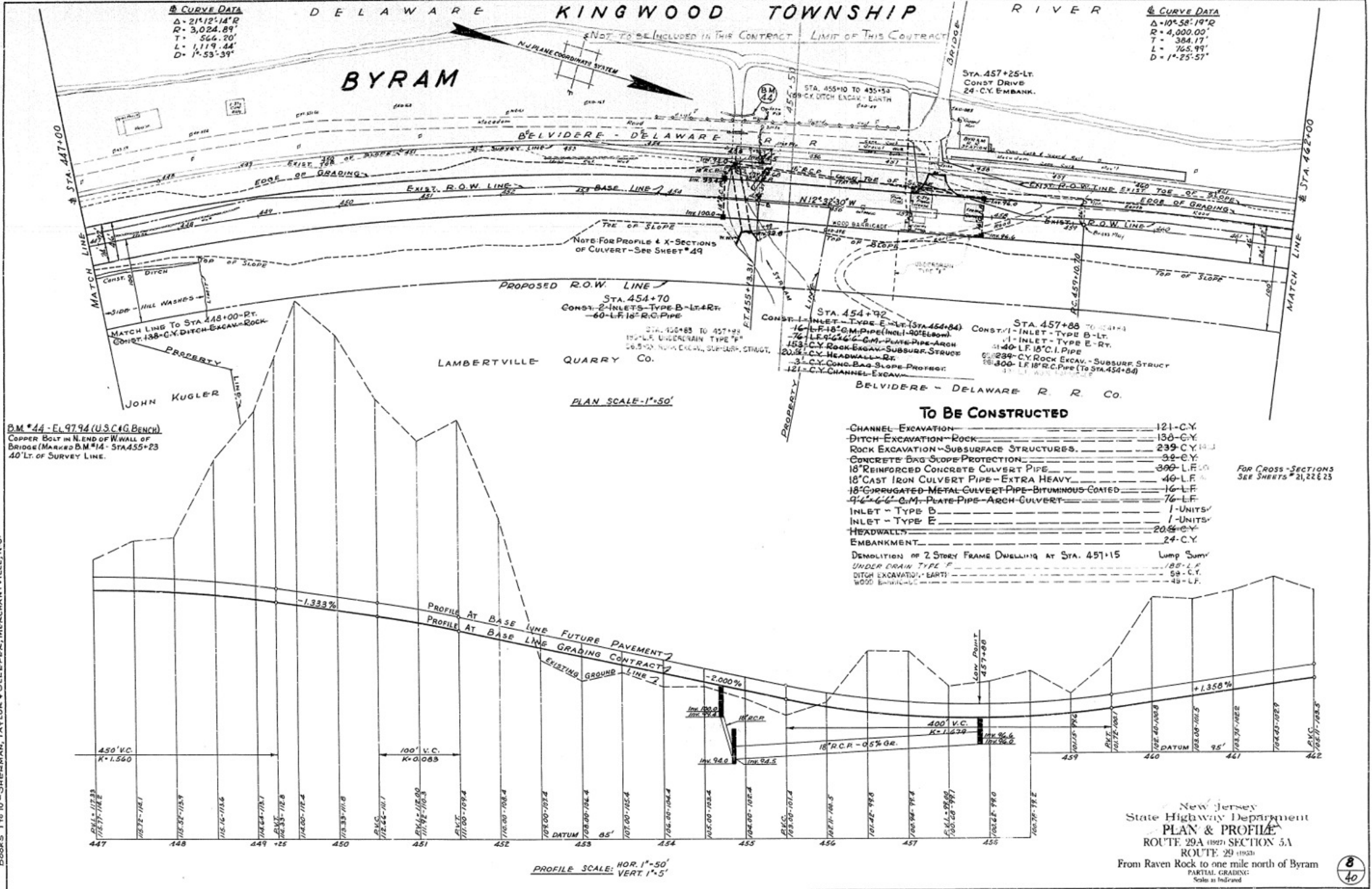
PROFILE SCALE: HOR. 1" = 50' VERT. 1" = 5'

New Jersey State Highway Department
PLAN & PROFILE
 ROUTE 29A (1927) SECTION 5A
 ROUTE 29 (1953)
 From Raven Rock to one mile north of Byram
 PARTIAL GRADING
 Scale as Indicated

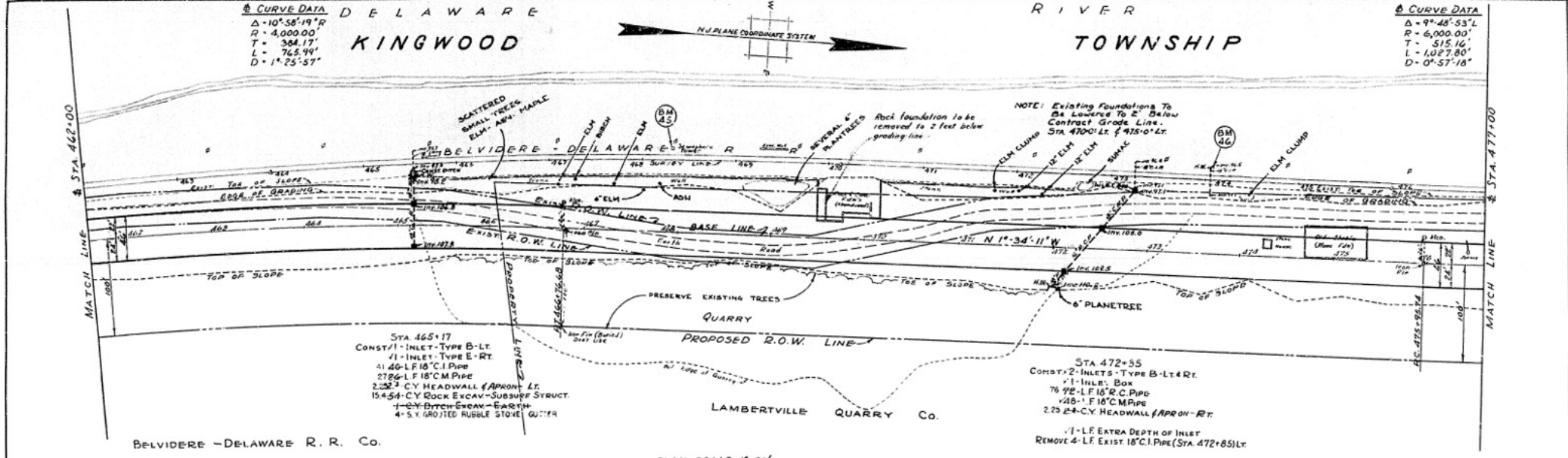
7/40

BOOKS 1 to 10 - SHERMAN, TAYLOR & SLEEPER, MERCHANTVILLE, N. J.

1008 007 040



1008 008 040



CURVE DATA
 $\Delta = 10^{\circ} 58' 19''$
 $R = 4,000.00'$
 $T = 364.17'$
 $L = 765.99'$
 $D = 1^{\circ} 25' 57''$

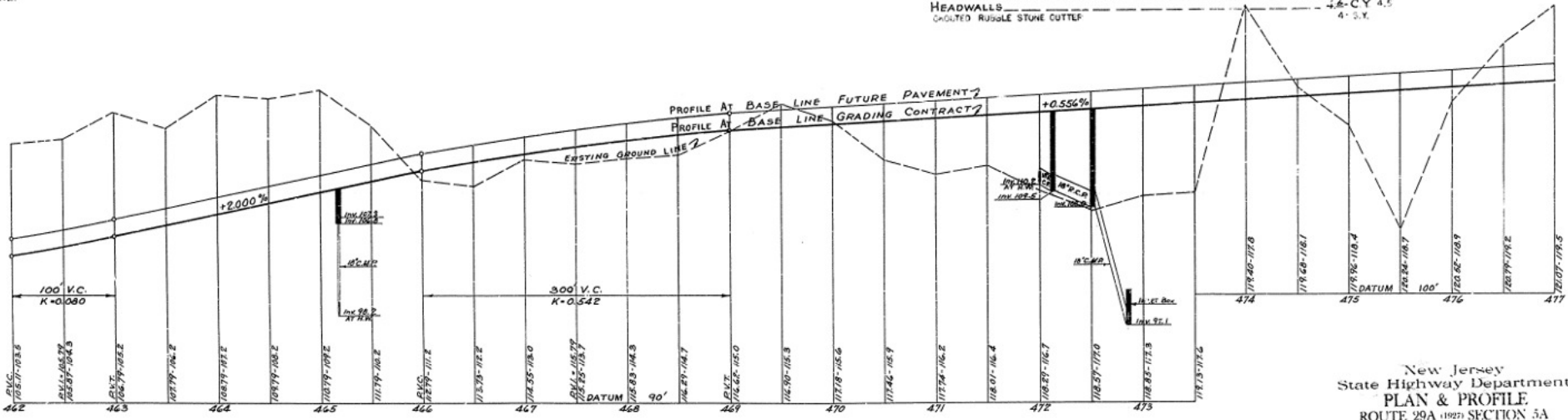
CURVE DATA
 $\Delta = 9^{\circ} 48' 33''$
 $R = 6,000.00'$
 $T = 515.16'$
 $L = 1,027.80'$
 $D = 0^{\circ} 57' 18''$

B.M. #45 - EL. 99.67
 S.E. COR. OF CONC. BASE OF SEMAPHORE - STA. 468+33-12' LT. OF SURVEY LINE.
B.M. #46 - EL. 98.34
 N.W. COR. OF HEADWALL - STA. 474+08-9' LT. OF SURVEY LINE.

To Be Constructed

DITCH EXCAVATION - EARTH	1-CY
ROCK EXCAVATION - SUBSURFACE STRUCTURES	54-CY 15.4
18" REINFORCED CONCRETE CULVERT PIPE	72-LF 74
18" CAST IRON CULVERT PIPE - EXTRA HEAVY	40-LF 41
18" CORRUGATED METAL CULVERT PIPE - BITUMINOUS COATED	74-LF 75
INLET - TYPE B	3-UNITS
INLET - TYPE E	1-UNIT
INLET BOX	1-UNIT
EXTRA DEPTH OF INLET	1-LF
HEADWALLS	4.6-CY 4.5
GRAVELLED RUBBLE STONE CUTTER	4-S.Y.

FOR CROSS-SECTIONS
 SEE SHEETS # 23, 24, 25 & 26



New Jersey
 State Highway Department
PLAN & PROFILE
 ROUTE 29A (1927) SECTION 5A
 ROUTE 29 (1953)
 From Raven Rock to one mile north of Byram
 PARTIAL GRADING
 Scale as Indicated

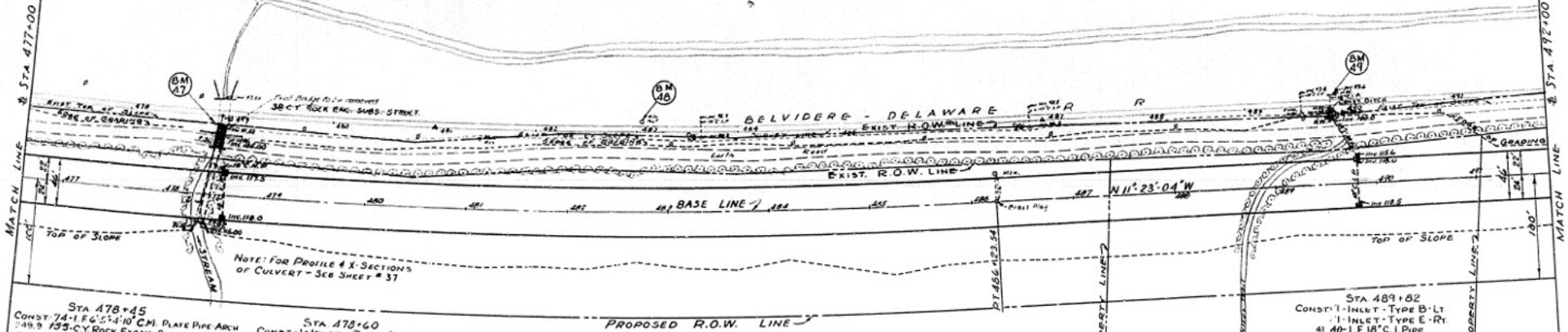
BOOKS 11-10-SHEEMAN, TAYLOR & SLEEPER, MERCHANTVILLE, N.J.

1008 009 | 040

DELAWARE KINGWOOD TOWNSHIP RIVER

① CURVE DATA
 Δ = 7° 48' 53"
 R = 6,000.00'
 T = 515.16'
 L = 1027.80'
 D = 0° 57' 18"

N-T PLANE COORDINATE SYSTEM



STA 478+45
 CONST: 74-1 LF 6" 5' 4" 10" C.M. PLATE PIPE-ARCH
 249.5 125-CY ROCK EXCAV-SUBSURF STRUCT
 511' 47.25-CY HEADWALL-LT&RT
 105-CY CHANNEL EXCAV
 242 LF 3" GROUTED RUBBLE STONE GUTTER
 73-CY DITCH EXCAVATION-ROCK

STA 478+60
 CONST: 1-1 INLET-TYPE B-LT
 1-1 INLET-TYPE E-RT
 41-40-LF 18" C I PIPE
 15 18-LF 18" C M PIPE (Incl 1-90° Elbow)
 6622-CY ROCK EXCAV-SUBSURF STRUCT

LAMBERTVILLE QUARRY CO.
 PLAN SCALE - 1"=50'

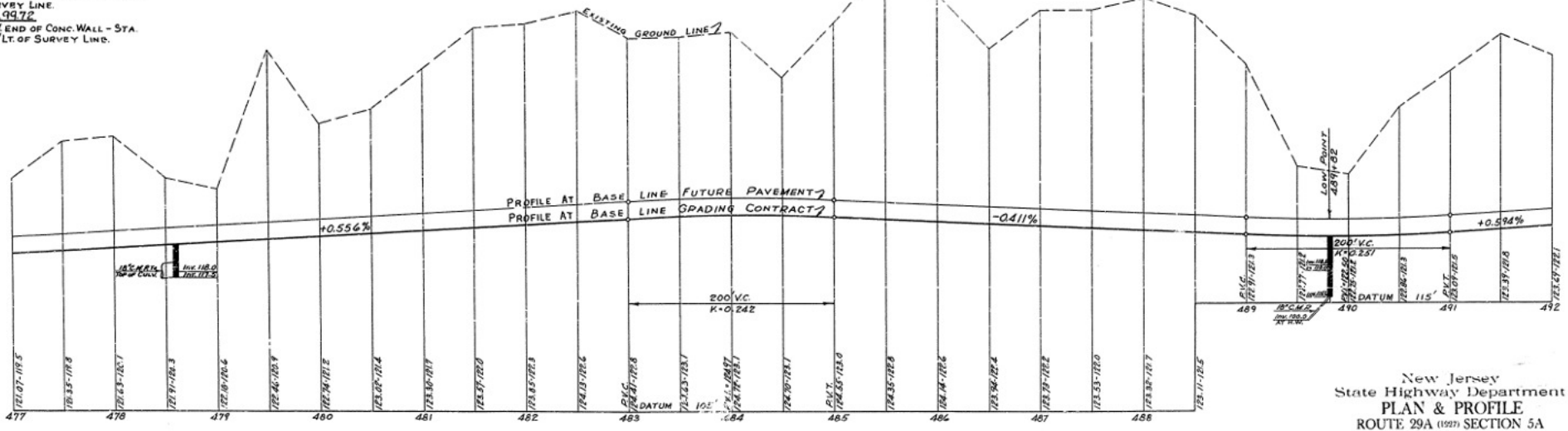
To Be Constructed

CHANNEL EXCAVATION	105-CY
DITCH EXCAVATION - EARTH	4-CY
ROCK EXCAVATION - SUBSURFACE STRUCTURES	237-CY PR. 8
18" CAST IRON CULVERT PIPE - EXTRA HEAVY	80-LF #2
15" CORRUGATED METAL CULVERT PIPE - BITUMINOUS COATED	62-LF #0
6' 5" 4' 10" C.M. PLATE PIPE-ARCH CULVERT	74-LF #1
INLET - TYPE B	2-UNITS
INLET - TYPE E	2-UNITS
HEADWALLS	50.55-CY G.37
GROUTED RUBBLE STONE GUTTER	17-3.5' 27
DITCH EXCAVATION - ROCK	73-CY

NOTE: DEBDS
 105-CY
 4-CY
 237-CY PR. 8
 80-LF #2
 62-LF #0
 74-LF #1
 2-UNITS
 2-UNITS
 50.55-CY G.37
 17-3.5' 27
 73-CY

For Cross-Sections
 SEE SHEETS # 26, 27, 28, 29 & 30

BM #47 - EL. 98.76
 CROSS CUT IN S. END OF E. HEADWALL
 STA 478+83 - 6 RT. OF SURVEY LINE.
 BM #48 - EL. 103.97
 TOP OF MILE POST #43-25 - STA. 483+05
 10' LT. OF SURVEY LINE.
 BM #49 - EL. 99.72
 NW COR. OF W. END OF CONC. WALL - STA.
 489+85 - 10' LT. OF SURVEY LINE.



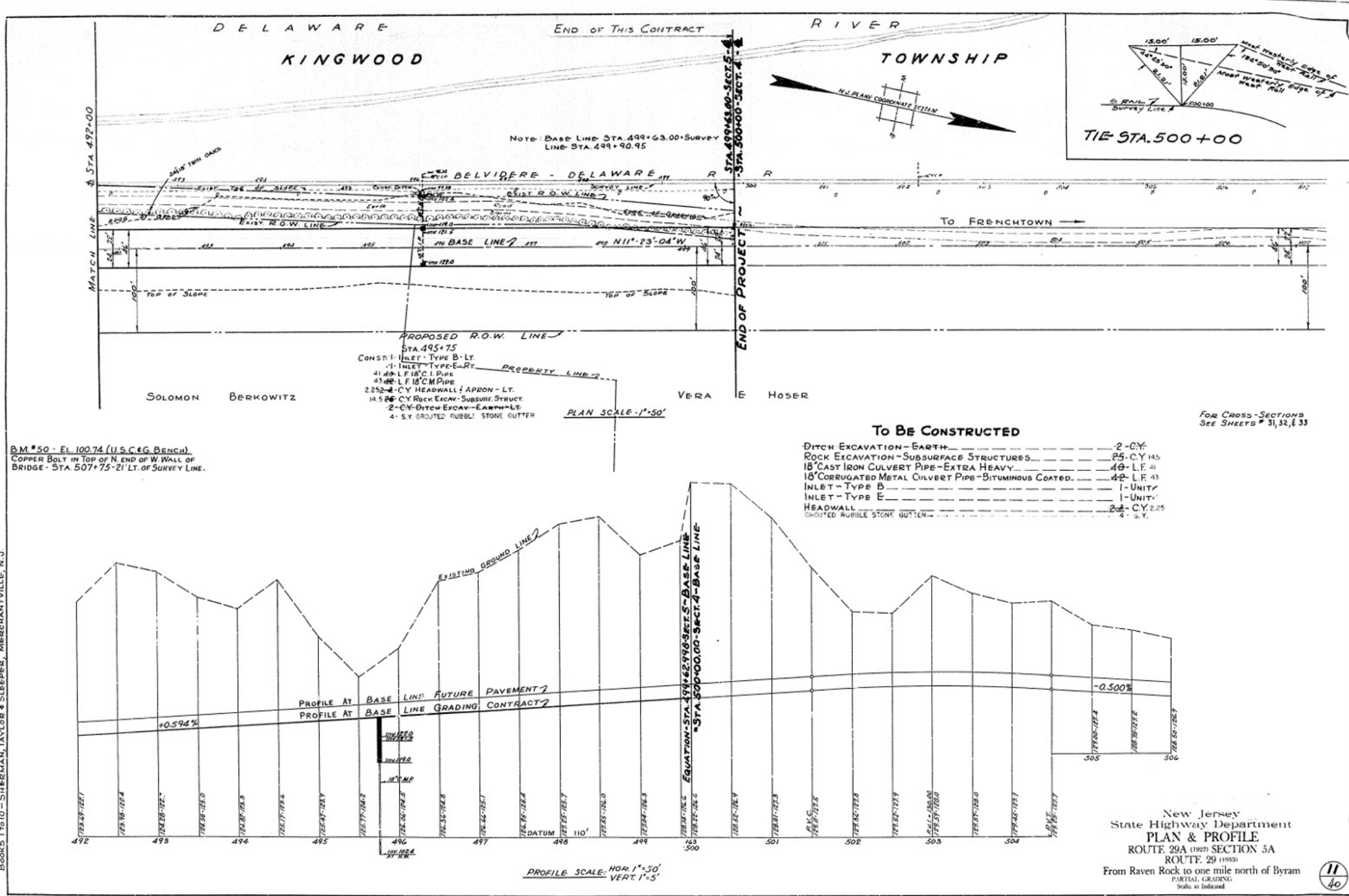
PROFILE SCALE: HOR. 1"=50'
 VERT. 1"=5'

New Jersey
 State Highway Department
PLAN & PROFILE
 ROUTE 29A (1997) SECTION 5A
 ROUTE 29 (1958)
 From Raven Rock to one mile north of Byram
 PARTIAL GRADING
 Scale as Indicated

Books 1 to 10 - SHERMAN, TAYLOR & SLEEPER, MERCHANTVILLE, N. J.

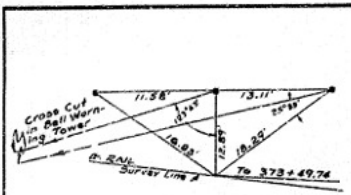
1008 010 040

BOOKS 1 to 10 - SHERMAN, TAYLOR & SLEEPER, MERCHANTVILLE, N. J.



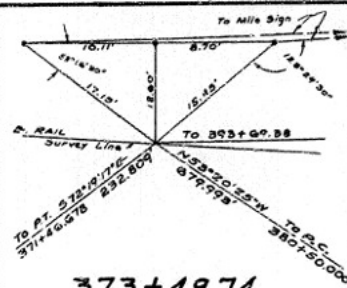
New Jersey
State Highway Department
PLAN & PROFILE
ROUTE 29A (1927) SECTION 5A
ROUTE 29 (1953)
From Raven Rock to one mile north of Byram
PARTIAL GRADING
Scale as Indicated

1008 011 040

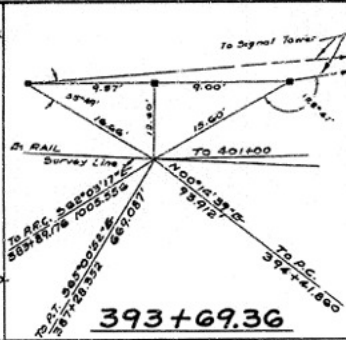


368+00

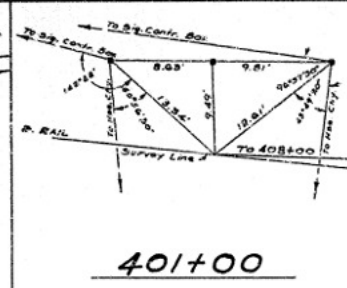
NOTE:
FOR THE STA. 360+00 SEE
LAST ROW, FAR RIGHT BLOCK



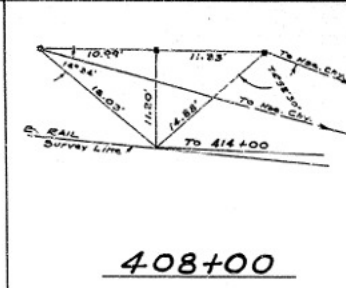
373+49.74



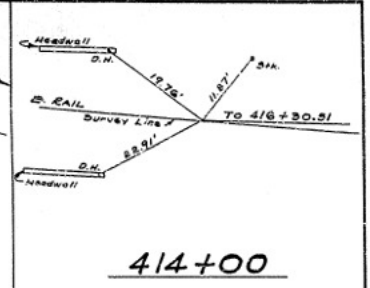
393+69.36



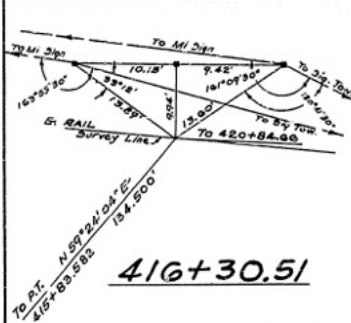
401+00



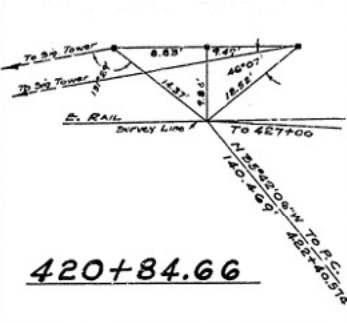
408+00



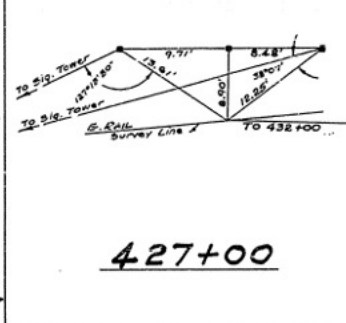
414+00



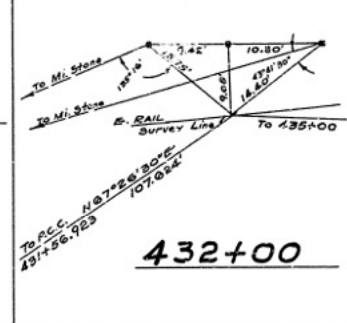
416+30.51



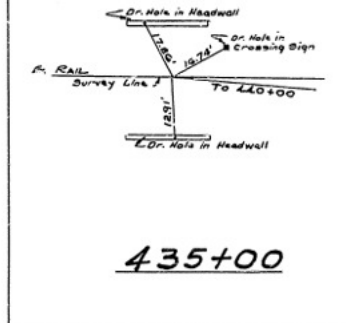
420+84.66



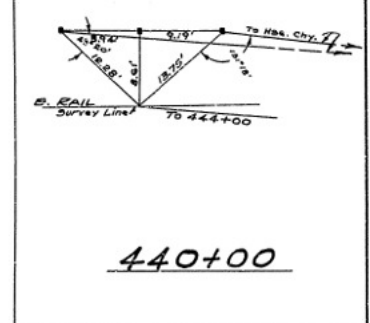
427+00



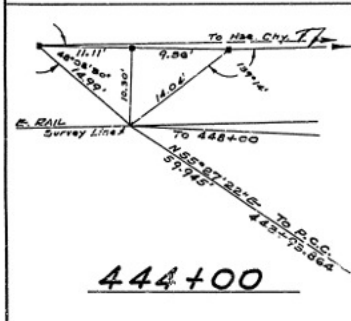
432+00



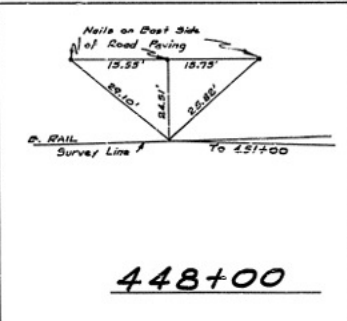
435+00



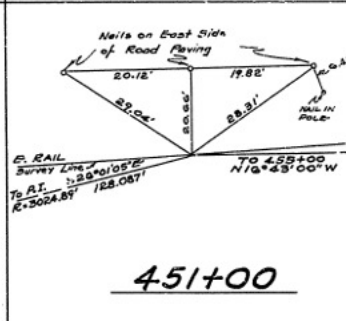
440+00



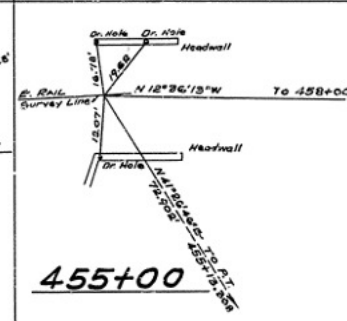
444+00



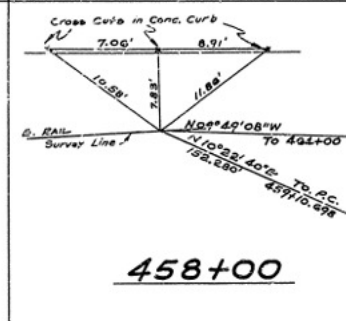
448+00



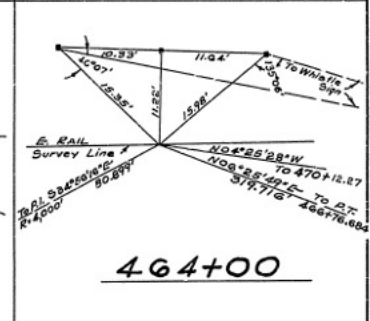
451+00



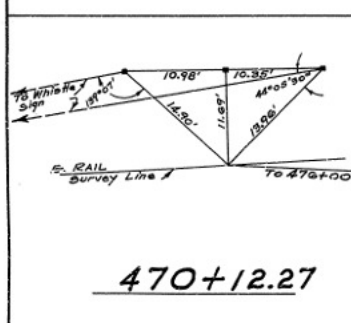
455+00



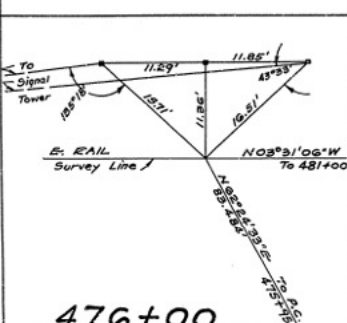
458+00



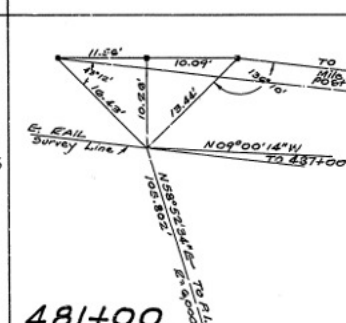
464+00



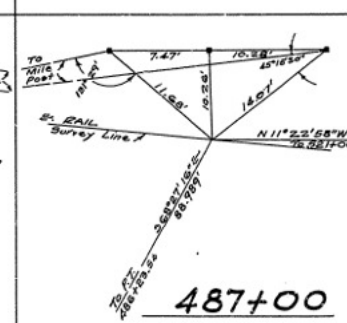
470+12.27



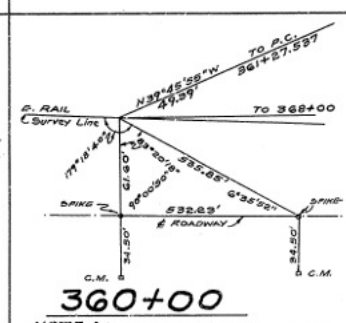
476+00



481+00



487+00



360+00

NOTE:
FOR THE STA. 300+00 SEE
PLAN SHEET NO. 13

New Jersey
State Highway Department
THE SHEET
ROUTE 29A (1927) SECTION 5A
ROUTE 29 (1953)
From Raven Rock to one mile north of Byram
PARTIAL GRADING
Scale as Indicated

1008 012 | 040

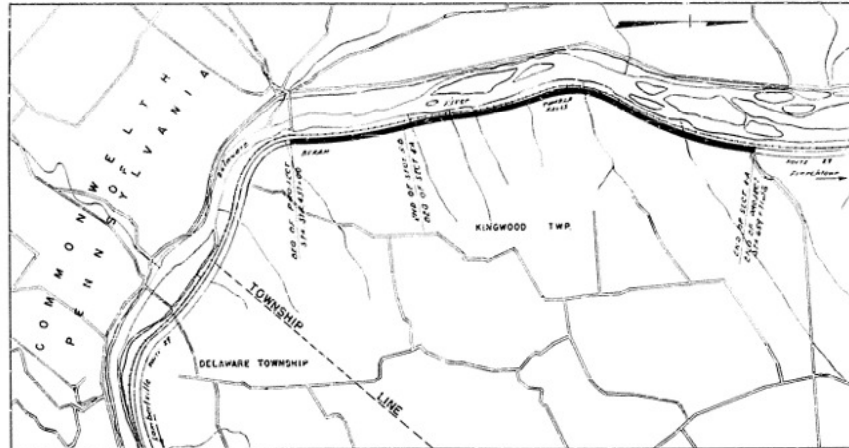
STATE OF NEW JERSEY
 HIGHWAY DEPARTMENT
 PLANS OF
 ROUTE 29A (1927) SECTIONS 5B & 4A
 ROUTE 29 (1953)
 From Byram to Kingwood Station
 PAVING

Kingwood Township
 Scales as Indicated

Hunterdon County
 June 1955

As Built

INDEX	
NO	DESCRIPTION
1	KEY SHEET
2	ESTIMATE OF QUANTITIES
	TAKE OFF SHEET
	TYPICAL SECTIONS
3 - 6	PLANS
7	DETAIL SHEET



KEYMAP

SCALE 1" = 1/2 MILE

LENGTH OF PROJECT 20,235.03 LIN. FT. 3.832 MILES

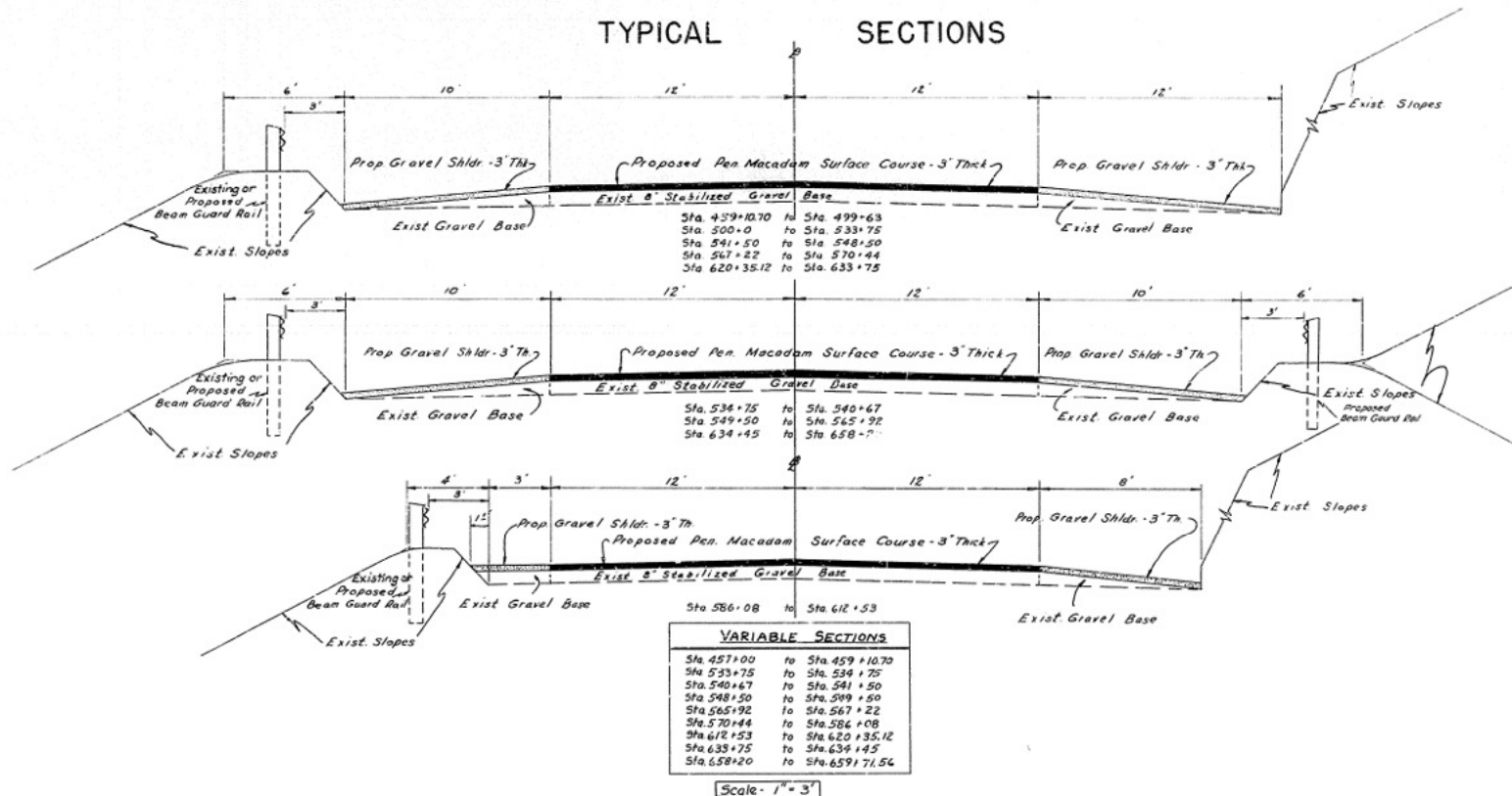
STANDARD HIGHWAY SPECIFICATIONS OF 1941 TO GOVERN

Submitted by *O. Hubert Outby* 6-10-55
Director & Chief Engineer
Division of Planning, Research, Soils & Tests
 Date
 Approved by *E. J. [Signature]* 6-13-55
State Highway Engineer
 Date
 Approved by _____
State Highway Commissioner Date



1008 001 007

TYPICAL SECTIONS



VARIABLE SECTIONS	
Sta. 457+00 to Sta. 459+10.70	Sta. 499+63 to Sta. 533+75
Sta. 533+75 to Sta. 534+75	Sta. 541+50 to Sta. 548+50
Sta. 540+67 to Sta. 541+50	Sta. 549+50 to Sta. 567+22
Sta. 548+50 to Sta. 549+50	Sta. 570+44 to Sta. 584+08
Sta. 565+92 to Sta. 567+22	Sta. 620+35.12 to Sta. 620+35.12
Sta. 570+44 to Sta. 584+08	Sta. 633+75 to Sta. 634+45
Sta. 612+53 to Sta. 612+53	Sta. 659+75.54 to Sta. 659+75.54

Scale: 1" = 3'

ESTIMATE OF QUANTITIES

DISTRIBUTION OF QUANTITIES

Item No.	DESCRIPTION	Unit	CONTRACT QUANTITY	AS BUILT QUANTITY	PLAN SHEET No. 3		PLAN SHEET No. 4		PLAN SHEET No. 5		PLAN SHEET No. 6		IF and Where Directed
					Estimate	As Built	Estimate	As Built	Estimate	As Built	Estimate	As Built	
1	FIELD OFFICE	L.S.	1	1									
2	GRAVEL SHOULDER 3' THICK	S.Y.	43,600	41063	13,271	11978	10,648	9825	9954	10232	9577	9028	150
3	PENETRATION MACADAM SURFACE COURSE HOT APPL. 3" THICK	S.Y.	54,500	54259	15,221	15155	12,000	12002	16,000	16003	11,091	11093	188
4	BITUMINOUS MATERIAL 1st & 2nd HOT APPLICATION	Gals.	49,875	150121	41,858	41930	33,000	33207	44,000	44276	30,499	30708	518
5	PENETRATION MACADAM 3rd HOT APPLICATION	S.Y.	54,500	54259	15,221	15155	12,000	12002	16,000	16003	11,091	11093	188
6	BEAM GUARD RAIL	L.F.	17,700	17464	5,163	5144	4,700	4690	3,312	3345	4,422	4285	103
SA ¹	1/2" STONE FOR EXTRA DEPTH OF MACADAM PAV'T TO 4 INCHES	TONS	100	123									
SA ²	3/4" STONE WITH SCREENINGS FOR REPAIR	TONS	100	158									
SA ³	GRAVEL FOR EXTRA DEPTH - GRAVEL SHOULDERS	TONS	100	—									

New Jersey
State Highway Department
ESTIMATE OF QUANTITIES
TAKE OFF SHEET
TYPICAL SECTIONS
ROUTE 29A (1927) SECTIONS 5B & 4A
ROUTE 29 (1953)
From Byram to Kingwood Station
PAVING
Scale as Indicated

1008 002 007

PLAN
Scale - 1" = 50'

CURVE DATA			
1. 10° 28' 13"	2. 1744.15'	3. 1027.80'	4. 1027.80'
5. 4.000'	6. 4.000'	7. 388.11'	8. 15.5 24
9. 75.578'	10. 1027.80'		

EQUATION
STA 499+63.00 SECTION 5 B
STA 500+00.00 SECTION 4

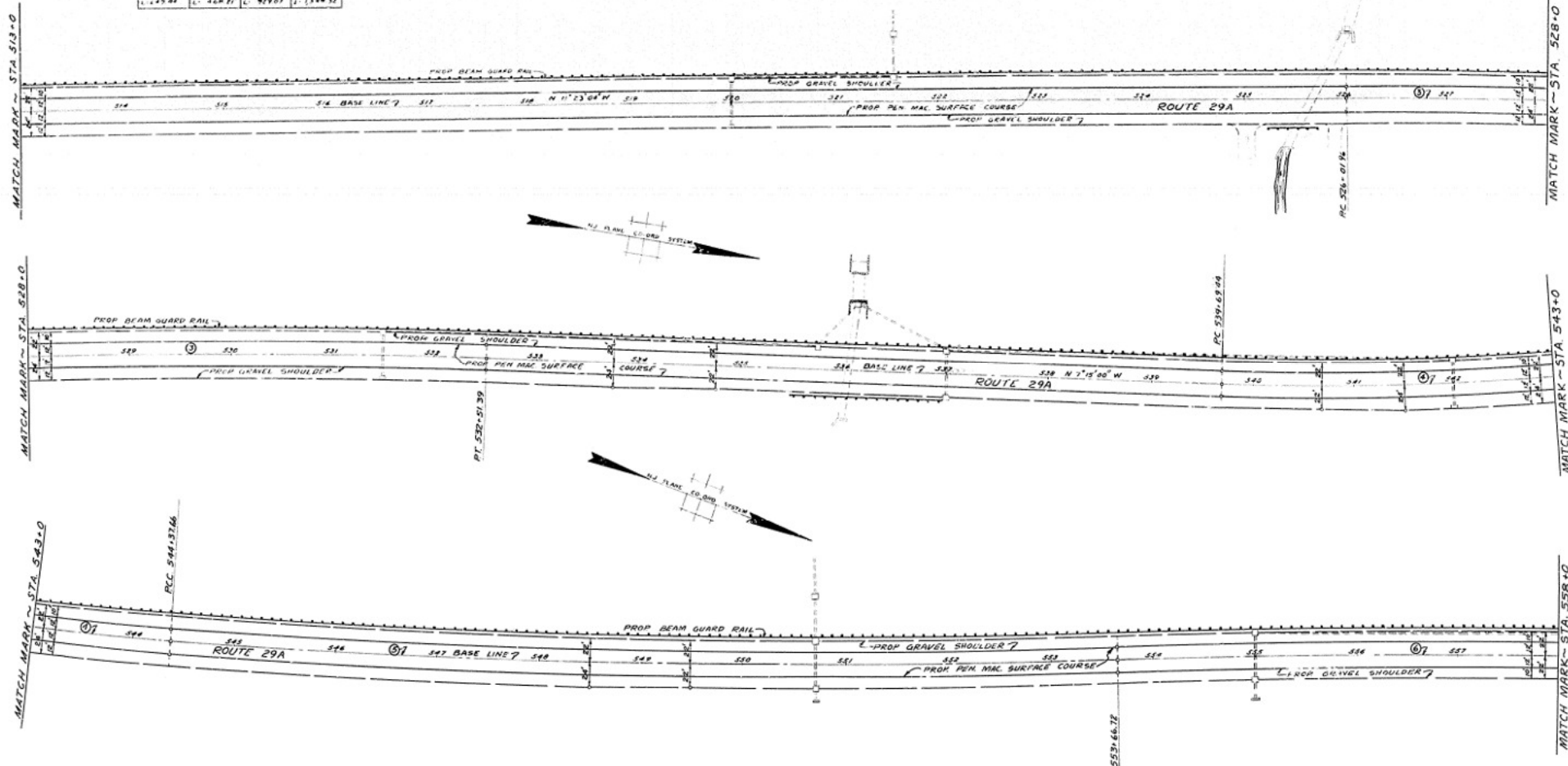
TO BE CONSTRUCTED	CONTRACT QUANTITY	AS BUILT QUANTITY
GRAVEL SHOULDER - 3" THICK	15,271 SY	11,978 SY
PEN MACADAM SURE COURSE HOT APPL, 3" THICK	15,221 SY	15,155 SY
PEN MACADAM 3rd HOT APPLICATION	15,221 SY	15,155 SY
BIT MATERIAL 1st & 2nd HOT APPLICATION	41,858 Gal	41,930 Gal
BEAM GUARD RAIL	5,163 LF	5,144 LF

New Jersey
State Highway Department
PLANS
ROUTE 29 A (1997) SECTIONS 5 B & 4 A
ROUTE 29 (1983)
From Byron to Kingwood Station
PAVING
Scale as Indicated

1008 003 007

PLAN
Scale - 1" = 50'

CURVE DATA			
①	②	③	④
Δ 4°09'04"	Δ 0°24'20"	Δ 2°26'27"	Δ 0°01'24"
R 2,000'	R 1,000'	R 2,400'	R 2,000'
L 1,149.84'	L 1,428.27'	L 929.07'	L 1,124.22'

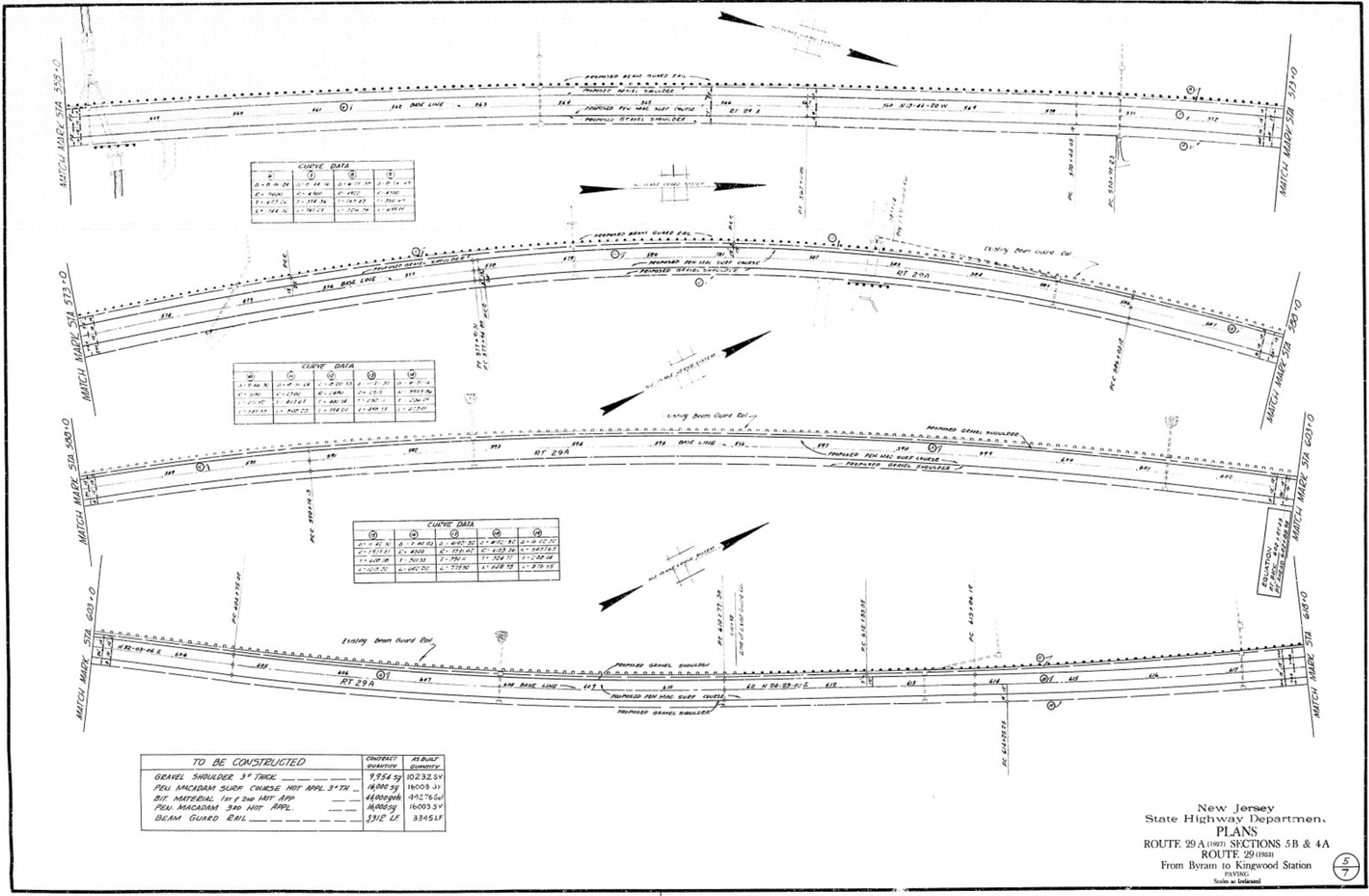


TO BE CONSTRUCTED	CONTRACT QUANTITY	AS BUILT QUANTITY
GRAVEL SHOULDER - 3" THICK	10,648 SY	9,835 SY
PEN. MACADAM SURF COURSE, HOT APPL., 3" THICK	12,000 SY	12,002 SY
PEN. MACADAM 3 rd APPLICATION	12,000 SY	12,002 SY
BIT MATERIAL 1 st & 2 nd HOT APPLICATION	33,000 GAL	33,207 GAL
BEAM GUARD RAIL	4,700 LF	4,690 LF

New Jersey
State Highway Department
PLANS
ROUTE 29 A (1927) SECTIONS 5B & 4A
ROUTE 29 (1958)
From Byram to Kingwood Station
PAVING
Scale as Indicated

4
7

1008 004 007



CURVE DATA				
(1)	(2)	(3)	(4)	(5)
Δ = 8° 04' 24"	Δ = 1° 44' 36"	Δ = 6° 01' 54"	Δ = 6° 14' 45"	
PC = 560.00	PC = 560.00	PC = 562.00	PC = 570.00	
PT = 573.24	PT = 574.36	PT = 567.83	PT = 576.45	
LC = 344.32	LC = 187.17	LC = 224.34	LC = 249.00	

CURVE DATA				
(1)	(2)	(3)	(4)	(5)
Δ = 1° 46' 30"	Δ = 1° 11' 24"	Δ = 1° 00' 33"	Δ = 1° 11' 30"	Δ = 0° 30' 14"
PC = 580.00	PC = 570.00	PC = 570.00	PC = 575.00	PC = 583.56
PT = 581.52	PT = 571.67	PT = 571.00	PT = 576.11	PT = 584.29
LC = 181.55	LC = 102.23	LC = 112.00	LC = 200.54	LC = 112.00

CURVE DATA				
(1)	(2)	(3)	(4)	(5)
Δ = 1° 42' 30"	Δ = 1° 40' 00"	Δ = 0° 52' 22"	Δ = 0° 52' 30"	Δ = 0° 02' 00"
PC = 591.81	PC = 590.00	PC = 591.00	PC = 593.36	PC = 597.00
PT = 593.28	PT = 591.33	PT = 591.00	PT = 594.37	PT = 598.04
LC = 101.50	LC = 104.00	LC = 77.90	LC = 74.88	LC = 27.90

TO BE CONSTRUCTED	CONTRACT QUANTITY	AS BUILT QUANTITY
GRAVEL SHOULDER 3" THICK	9,954 SY	10,232 SY
PEU. MACADAM SURF COURSE HOT APPL. 3" TH	16,000 SY	16,000 SY
BIT MATERIAL 1st & 2nd HOT APPL.	46,000 gal	44,760 gal
PEU. MACADAM 3rd HOT APPL.	16,000 SY	16,000 SY
BEAM GUARD RAIL	3312 LF	3345 LF

New Jersey
 State Highway Department
PLANS
 ROUTE 29 A (1927) SECTIONS 5B & 4A
 ROUTE 29 (1953)
 From Byram to Kingwood Station
 PAVING
 Scale as Indicated

1008 005 007

PLAN
Scale=1"=50'

MATCH MARK STA 618+0

MATCH MARK STA 633+0

MATCH MARK STA 633+0

MATCH MARK STA 648+0

MATCH MARK STA 648+0

CURVE DATA			
①	②	③	④
Δ 4° 02' 32"	Δ 4° 02' 32"	Δ 4° 01' 32"	Δ 7° 50' 00"
R 1391.42'	R 4153.56'	R 5457.65'	R 10,000'
T 390.41'	T 324.37'	T 288.64'	T 845.21'
L 779.40'	L 648.93'	L 575.55'	L 1716.24'

END OF CONTRACT
STA 659+71.56 - SECT. 4A
STA 1223+00 - SECT. 1

TO BE CONSTRUCTED	CONTRACT QUANTITY	AS BUILT QUANTITY
GRAVEL SHOULDER 3" THICK	5,577 SY	9018 SY
PEN. MACADAM SURF. COURSE, HOT APPL., 3" THICK	11,091 SY	11099 SY
PEN. MACADAM 3 RD APPLICATION	11,091 SY	11099 SY
BIT. MATERIAL, 1 ST & 2 ND HOT APPLICATION	30,499 Gals	30708 Gals
BEAM GUARD RAIL	4,422 LF	12,85 LF

New Jersey
State Highway Department
PLANS
ROUTE 29 A (1997) SECTIONS 5B & 4A
ROUTE 29 (1983)
From Byram to Kingwood Station
PAVING
Scale as Indicated

6
7

1008 006 007

C.S. 1008

PUBLIC UTILITIES	
N. J. POWER AND LIGHT CO. 400 LINCOLN ST.	PHILLIPSBURG, N. J.
N. J. BELL TELEPHONE CO. LOCAL OFFICE 9 OAKLAND AVE.	TRENTON, N. J.
PENNSYLVANIA RAILROAD PENNSYLVANIA STATION	NEW YORK, N. Y.

STATE OF NEW JERSEY
HIGHWAY DEPARTMENT

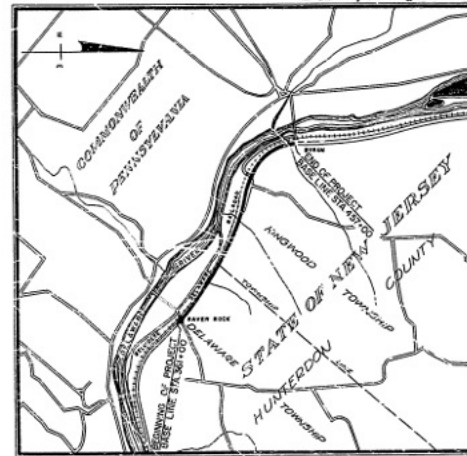
PLANS OF
ROUTE 29 (1953) SECTION 1
From Raven Rock to Byram
GRADING and PAVING

Townships of Delaware and Kingwood Hunterdon County
Scales as Indicated May 1959

INDEX	
SHEET NUMBER	DESCRIPTION
1	KEY MAP
2	ESTIMATE OF QUANTITIES TYPICAL SECTIONS
3	DISTRIBUTION OF QUANTITIES
4-10	PLAN AND PROFILE SHEETS
11-31	CROSS SECTION SHEETS
32	EARTHWORK SUMMARY
33-39	CONSTRUCTION DETAILS

As Built - DEPT. 1959

C.S. 1008



KEY MAP

SCALE 2" = 1 MILE

LENGTH OF PROJECT 9600.00 LIN. FT. 1.818 MILES
STANDARD HIGHWAY SPECIFICATIONS OF 1941 TO GOVERN

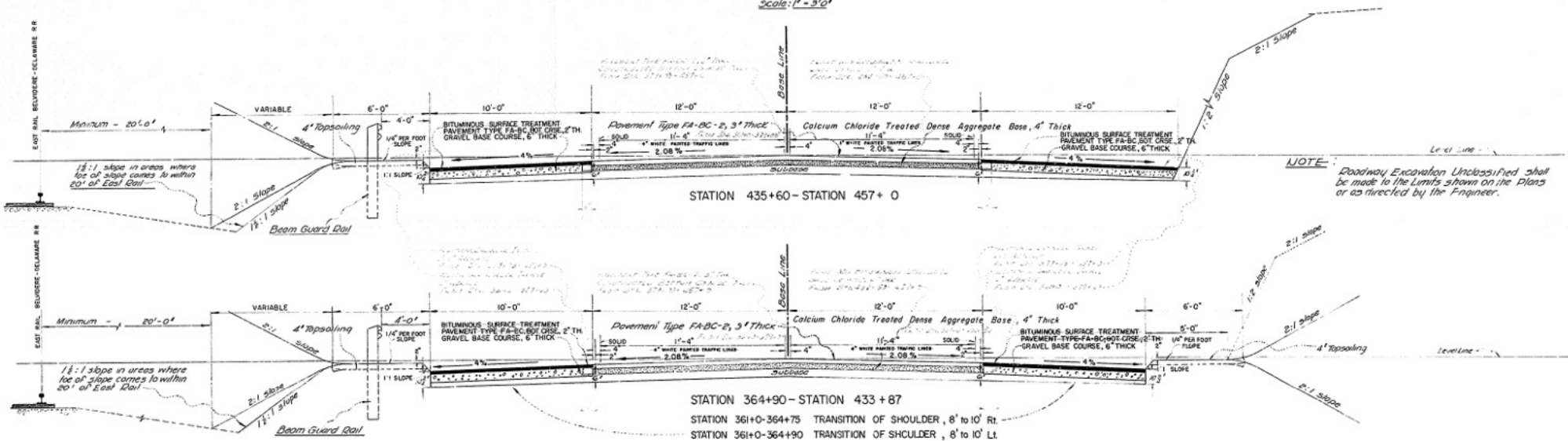
Submitted by A. W. G. J. 5-12-59
Director and Chief Engineer Date
Division of Roads, Design and Construction
Approved by C. H. Butcher 5-14-59
State Highway Engineer Date
Approved by _____
State Highway Commissioner Date

1/39

1008 001 039

TYPICAL SECTIONS

Scale: 1" = 30'

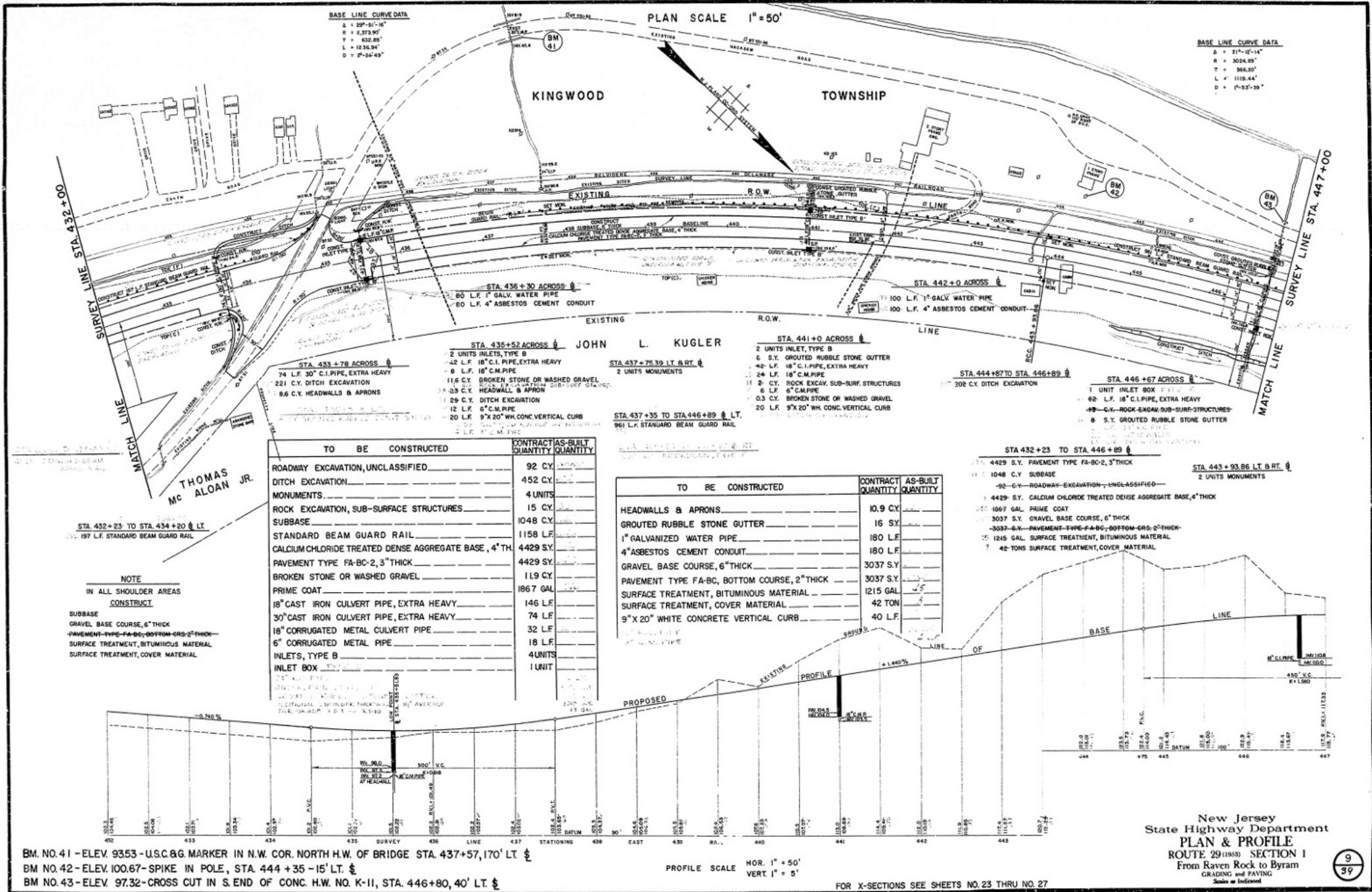


ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	CONTRACT QUANTITY	AS-BUILT QUANTITY	ITEM NO.	DESCRIPTION	UNIT	CONTRACT QUANTITY	AS-BUILT QUANTITY
1	FIELD OFFICE	LUMP SUM			28	9'-6" x 6'-5" STRUCTURAL PLATE PIPE ARCH	LIN. FT.	76	
2	CLEARING SITE	LUMP SUM			29	INLETS, TYPE B	UNIT	12	
3	STRIPPING	ACRE	2		30	INLETS, TYPE E	UNIT	4	
4	ROADWAY EXCAVATION, UNCLASSIFIED	CU. YD.	58,946		31	INLET BOXES	UNIT	1	
5	WET EXCAVATION	CU. YD.	4,500		32	RESET INLET HEADS	UNIT	8	
6	CHANNEL EXCAVATION, UNCLASSIFIED	CU. YD.	300		33	GROUTED RUBBLE STONE GUTTER	SQ. YD.	20	
7	DITCH EXCAVATION	CU. YD.	600		34	HEADWALLS, APRONS AND PIPE PLUGS	CU. YD.	95	
8	EARTH EXCAVATION FOR TEST PITS	CU. YD.	10		35	STANDARD BEAM GUARD RAIL	LIN. FT.	6,677	
9	ROCK EXCAVATION, SUBSURFACE STRUCTURES	CU. YD.	700		36	4" ASBESTOS CEMENT CONDUIT	LIN. FT.	180	
10	EARTH EXCAVATION SUBSURFACE STRUCTURES, ADDITIONAL DEPTH	CU. YD.	25		37	1" GALVANIZED WATER PIPE	LIN. FT.	180	
11	BORROW EXCAVATION, ZONE 2	CU. YD.	4,500		38	MONUMENTS	UNIT	20	
12	BORROW EXCAVATION, ZONE 3	CU. YD.	5,000		39	FERTILIZING AND SEEDING	SQ. YD.	14,000	
13	4" TOPSOILING	SQ. YD.	11,000		40	MULCHING (HAY)	SQ. YD.	25,000	
14	CONCRETE BAG SLOPE PROTECTION	CU. YD.	15		41	UNDERDRAIN, TYPE F	LIN. FT.	1,000	
15	CALCIUM CHLORIDE TREATED DENSE AGGREGATE BASE, 4" THICK	SQ. YD.	27,450		42	CALCIUM CHLORIDE	TON	28	
16	PAVEMENT TYPE FA-BC-2, 3" THICK	SQ. YD.	27,450		43	SUBBASE	CU. YD.	6,800	
17	BROKEN STONE OR WASHED GRAVEL	CU. YD.	60		44	GRAVEL BASE COURSE, 6" THICK	SQ. YD.	21,227	
18	PRIME COAT	GALLON	12,120		45	PAVEMENT TYPE FA-BC, BOTTOM COURSE, 2" THICK	SQ. YD.	21,006	
19	12" REINFORCED CONCRETE CULVERT PIPE	LIN. FT.	50		46	SURFACE TREATMENT BITUMINOUS MATERIAL	GAL.	8,404	
20	18" REINFORCED CONCRETE CULVERT PIPE	LIN. FT.	112		47	SURFACE TREATMENT COVER MATERIAL	TON	292	
21	24" REINFORCED CONCRETE CULVERT PIPE	LIN. FT.	290		48	9' x 20" WHITE PAINTED CONCRETE VERTICAL CURB	LIN. FT.	200	
22	18" CAST IRON CULVERT PIPE, EXTRA HEAVY	LIN. FT.	314		49	4" WHITE PAINTED TRAFFIC LINES	LIN. FT.	25,000	
23	30" CAST IRON CULVERT PIPE, EXTRA HEAVY	LIN. FT.	74		50	INLET HEAD, TYPE E	UNIT	1	
24	6" CORRUGATED METAL PIPE	LIN. FT.	84						
25	18" CORRUGATED METAL CULVERT PIPE	LIN. FT.	240						
26	6'-1" x 4'-7" STRUCTURAL PLATE PIPE ARCH	LIN. FT.	96						
27	7'-0" x 5'-1" STRUCTURAL PLATE PIPE ARCH	LIN. FT.	92						

New Jersey
State Highway Department
ESTIMATE OF QUANTITIES
TYPICAL SECTIONS
ROUTE 29(1955) SECTION 1
From Raven Rock to Byram
GRADING and PAVING
Scale as Indicated

1008 002 039



BASE LINE CURVE DATA
 Δ = 29°-51'-16"
 R = 2,373.90'
 T = 432.86'
 L = 1236.94'
 D = 2°-21'-43"

BASE LINE CURVE DATA
 Δ = 31°-12'-14"
 R = 3034.89'
 T = 566.80'
 L = 1119.44'
 D = 1°-53'-39"

PLAN SCALE 1" = 50'

KINGWOOD TOWNSHIP

SURVEY LINE STA. 432+00

SURVEY LINE STA. 447+00

MATCH LINE

MATCH LINE

THOMAS Mc ALOAN JR.

JOHN L. KUGLER

- STA. 433+78 ACROSS
- 2 UNITS INLET, TYPE B
 - 42 L.F. 18" C.I. PIPE, EXTRA HEAVY
 - 8 L.F. 18" C.M. PIPE
 - 11.6 C.Y. BROKEN STONE OR WASHED GRAVEL
 - 23 C.Y. HEADWALL & APRON
 - 29 C.Y. DITCH EXCAVATION
 - 12 L.F. 6" C.I. PIPE
 - 20 L.F. 9" X 20" WH. CONC. VERTICAL CURB
- STA. 435+52 ACROSS
- 2 UNITS INLET, TYPE B
 - 42 L.F. 18" C.I. PIPE, EXTRA HEAVY
 - 8 L.F. 18" C.M. PIPE
 - 11.6 C.Y. BROKEN STONE OR WASHED GRAVEL
 - 23 C.Y. HEADWALL & APRON
 - 29 C.Y. DITCH EXCAVATION
 - 12 L.F. 6" C.I. PIPE
 - 20 L.F. 9" X 20" WH. CONC. VERTICAL CURB
- STA. 437+35 TO STA. 446+89 LT. & RT.
- 2 UNITS MONUMENTS
 - 961 L.F. STANDARD BEAM GUARD RAIL

- STA. 441+0 ACROSS
- 2 UNITS INLET, TYPE B
 - 6 S.Y. GROUTED RUBBLE STONE GUTTER
 - 42 L.F. 18" C.I. PIPE, EXTRA HEAVY
 - 24 L.F. 18" C.M. PIPE
 - 2 C.Y. ROCK EXCAV. SUB-SURF. STRUCTURES
 - 6 L.F. 6" C.M. PIPE
 - 0.3 C.Y. BROKEN STONE OR WASHED GRAVEL
 - 20 L.F. 9" X 20" WH. CONC. VERTICAL CURB
- STA. 444+87 TO STA. 446+89
- 302 C.Y. DITCH EXCAVATION
- STA. 446+67 ACROSS
- 1 UNIT INLET BOX
 - 62 L.F. 18" C.I. PIPE, EXTRA HEAVY
 - 49 C.Y. ROCK EXCAV. SUB-SURF. STRUCTURES
 - 8 S.Y. GROUTED RUBBLE STONE GUTTER

TO BE CONSTRUCTED	CONTRACT QUANTITY	AS-BUILT QUANTITY
ROADWAY EXCAVATION, UNCLASSIFIED	92 CY	
DITCH EXCAVATION	452 CY	
MONUMENTS	4 UNITS	
ROCK EXCAVATION, SUB-SURFACE STRUCTURES	15 CY	
SUBBASE	1048 C.Y.	
STANDARD BEAM GUARD RAIL	1158 L.F.	
CALCIUM CHLORIDE TREATED DENSE AGGREGATE BASE, 4" THK	4429 S.Y.	
PAVEMENT TYPE FA-BC-2, 3" THICK	4429 S.Y.	
BROKEN STONE OR WASHED GRAVEL	119 CY	
PRIME COAT	1867 GAL	
18" CAST IRON CULVERT PIPE, EXTRA HEAVY	146 L.F.	
30" CAST IRON CULVERT PIPE, EXTRA HEAVY	74 L.F.	
18" CORRUGATED METAL CULVERT PIPE	32 L.F.	
6" CORRUGATED METAL PIPE	18 L.F.	
INLETS, TYPE B	4 UNITS	
INLET BOX	1 UNIT	

TO BE CONSTRUCTED	CONTRACT QUANTITY	AS-BUILT QUANTITY
HEADWALLS & APRONS	10.9 C.Y.	
GROUTED RUBBLE STONE GUTTER		
1" GALVANIZED WATER PIPE	180 L.F.	
4" ASBESTOS CEMENT CONDUIT	180 L.F.	
GRAVEL BASE COURSE, 6" THICK	3037 S.Y.	
PAVEMENT TYPE FA-BC, BOTTOM COURSE, 2" THICK	3037 S.Y.	
SURFACE TREATMENT, BITUMINOUS MATERIAL	1215 GAL	
SURFACE TREATMENT, COVER MATERIAL	42 TON	
9" X 20" WHITE CONCRETE VERTICAL CURB	40 L.F.	

- STA. 432+23 TO STA. 446+89
- 4429 S.Y. PAVEMENT TYPE FA-BC-2, 3" THICK
 - 1048 C.Y. SUBBASE
 - 92 C.Y. ROADWAY EXCAVATION, UNCLASSIFIED
 - 4429 S.Y. CALCIUM CHLORIDE TREATED DENSE AGGREGATE BASE, 4" THICK
 - 1867 GAL. PRIME COAT
 - 3037 S.Y. GRAVEL BASE COURSE, 6" THICK
 - 3037 S.Y. PAVEMENT TYPE FA-BC, BOTTOM COURSE, 2" THICK
 - 1215 GAL. SURFACE TREATMENT, BITUMINOUS MATERIAL
 - 42 TONS SURFACE TREATMENT, COVER MATERIAL
- STA. 443+93.86 LT. & RT.
- 2 UNITS MONUMENTS

NOTE
 IN ALL SHOULDER AREAS
 CONSTRUCT
 SUBBASE
 GRAVEL BASE COURSE, 6" THICK
 PAVEMENT TYPE FA-BC, BOTTOM COURSE, 2" THICK
 SURFACE TREATMENT, BITUMINOUS MATERIAL
 SURFACE TREATMENT, COVER MATERIAL

STA. 432+23 TO STA. 434+20 LT. & RT.
 197 L.F. STANDARD BEAM GUARD RAIL

BM. NO. 41 - ELEV. 93.53 - U.S.C. & G. MARKER IN N.W. COR. NORTH H.W. OF BRIDGE STA. 437+57, 170' LT. \$
 BM. NO. 42 - ELEV. 100.67 - SPIKE IN POLE, STA. 444+35 - 15' LT. \$
 BM. NO. 43 - ELEV. 97.32 - CROSS CUT IN S. END OF CONC. H.W. NO. K-11, STA. 446+80, 40' LT. \$

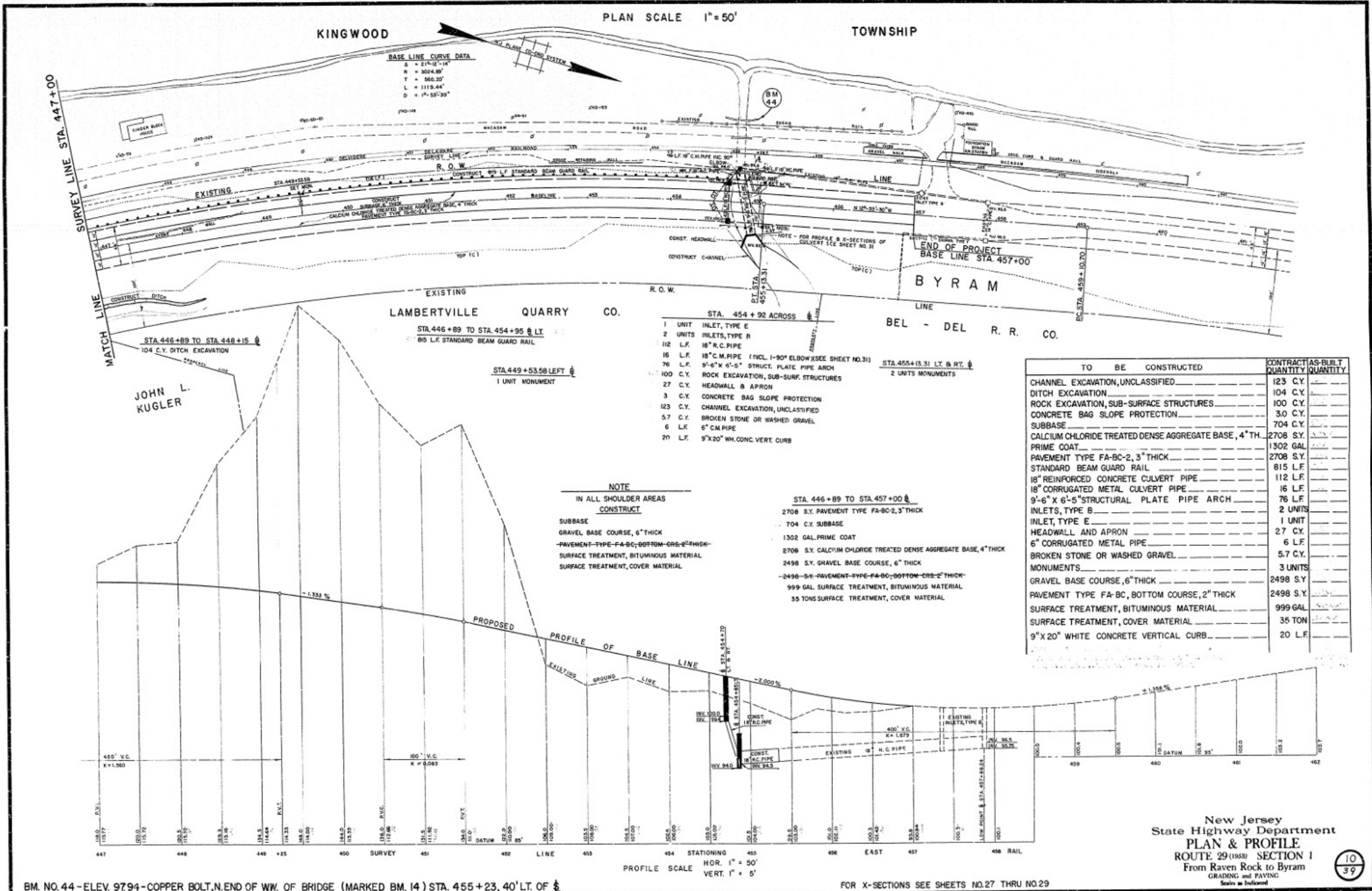
PROFILE SCALE HOR. 1" = 50'
 VERT. 1" = 5'

FOR X-SECTIONS SEE SHEETS NO. 23 THRU NO. 27

New Jersey State Highway Department
 PLAN & PROFILE
 ROUTE 29 (1858) SECTION 1
 From Raven Rock to Byram
 GRADING and PAVING
 Scale as Indicated

9/39

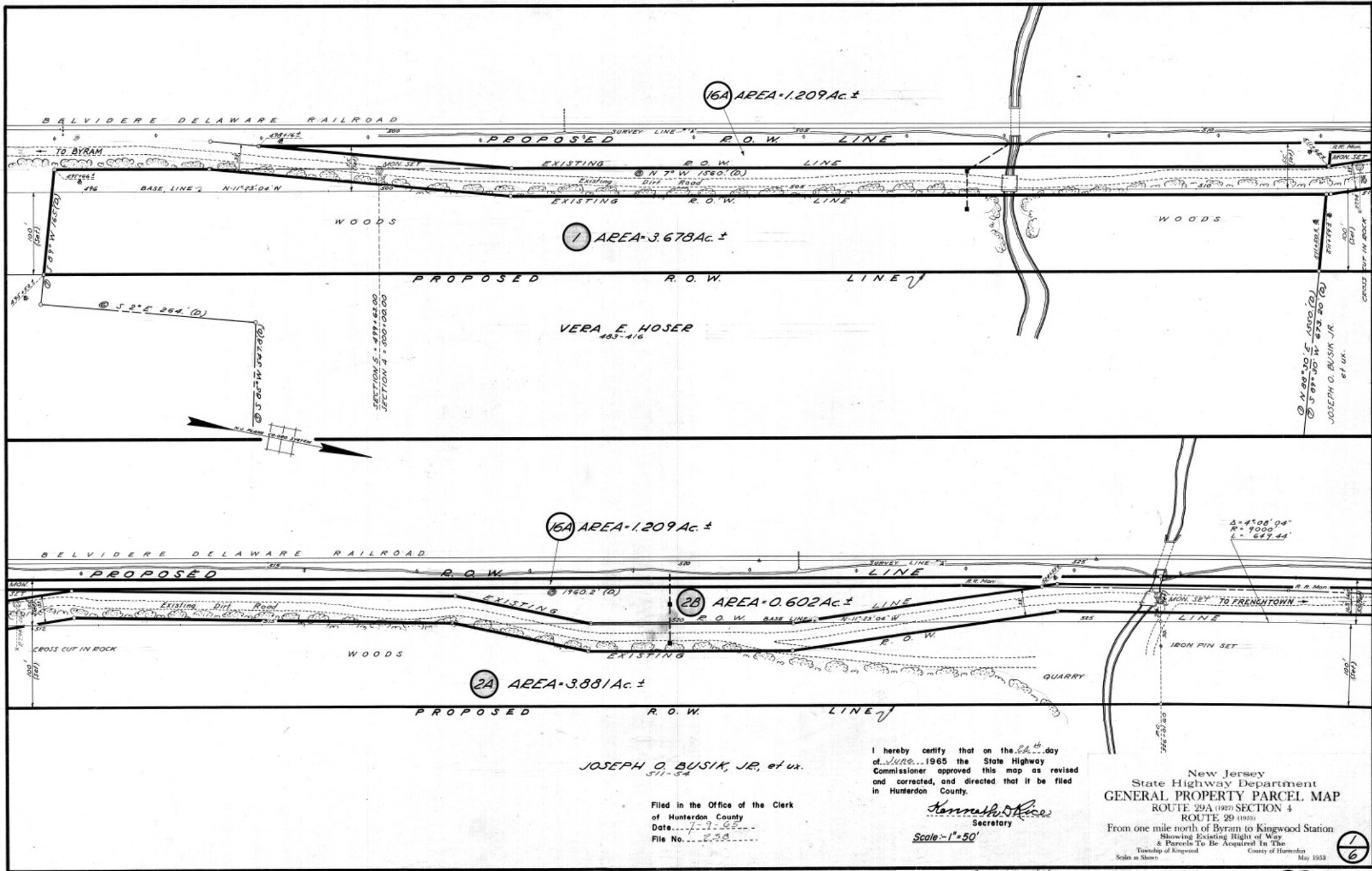
1008 009 039



1008 010 039

New Jersey
State Highway Department
PLAN & PROFILE
ROUTE 29 (1968) SECTION 1
From Raven Rock to Byram
GRADING AND PAVING
Scale as Indicated

10
39



JOSEPH O. BUSIK, JR., et ux.
511-524

Filed in the Office of the Clerk
of Hunterdon County
Date... 7-9-62
File No. 238

I hereby certify that on the 24th day
of June, 1965 the State Highway
Commissioner approved this map as revised
and corrected, and directed that it be filed
in Hunterdon County.

Kenneth Rice
Secretary
Scale: 1" = 50'

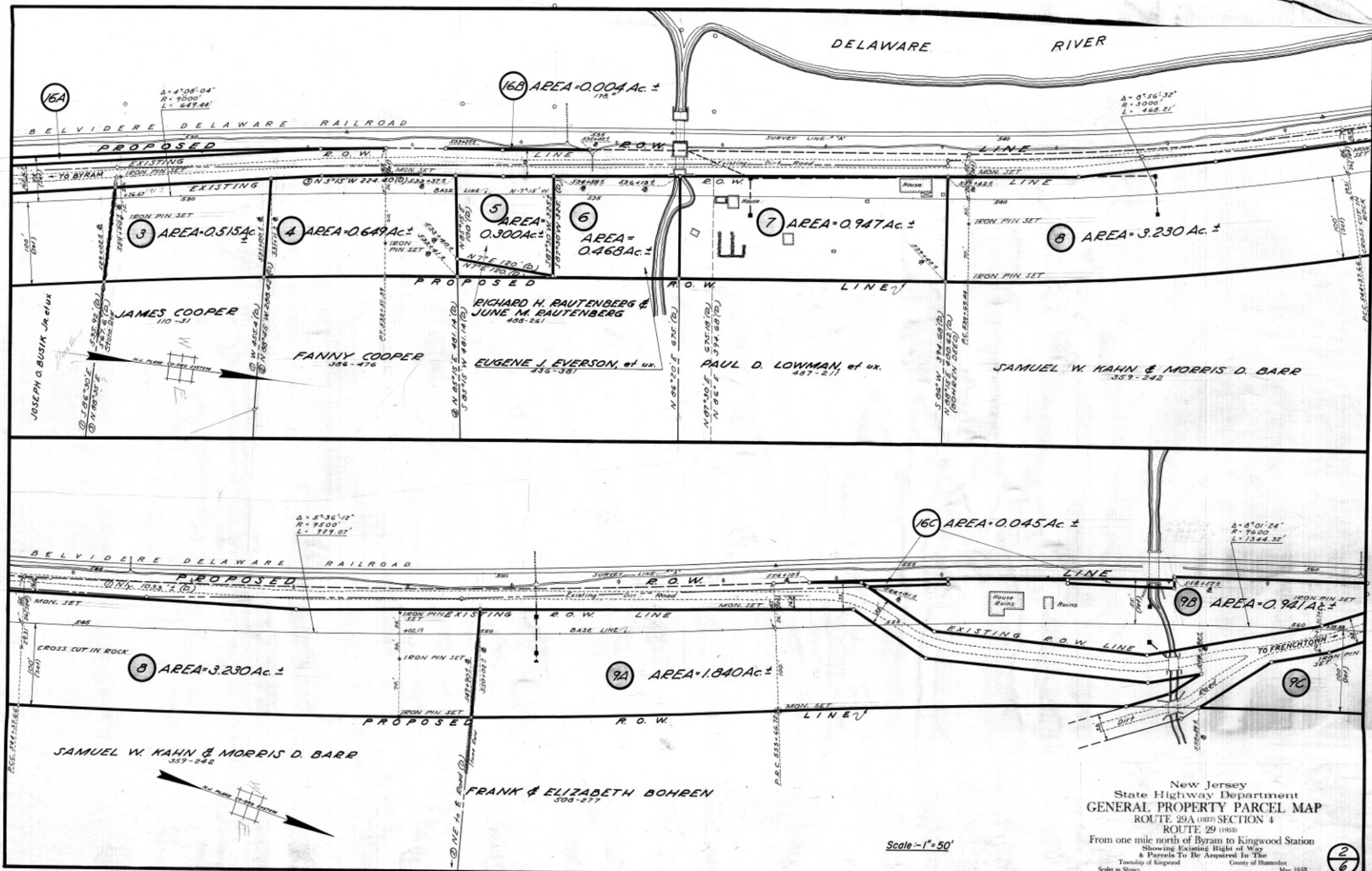
New Jersey
State Highway Department
GENERAL PROPERTY PARCEL MAP
ROUTE 29A (1927) SECTION 4
ROUTE 29 (1925)

From one mile north of Byram to Kingwood Station
Showing Existing Right of Way
& Parcels To Be Acquired In The
Township of Kingwood
County of Hunterdon
Scale as Shown May 1953

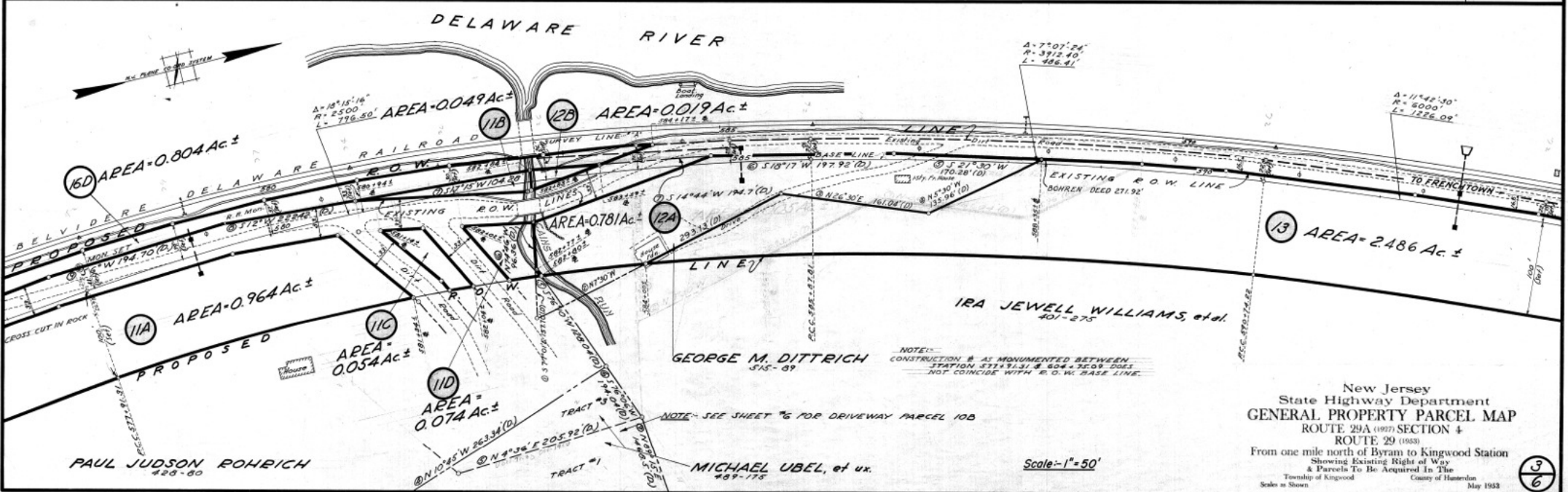
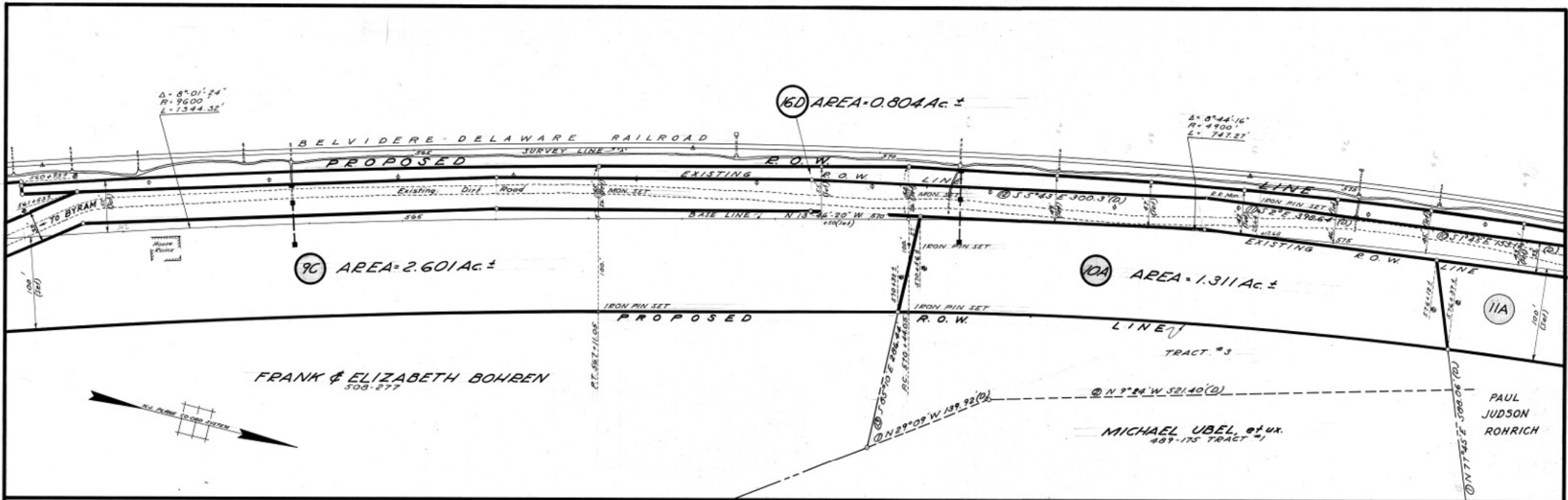
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Appx SMC 4/27/63

29-356



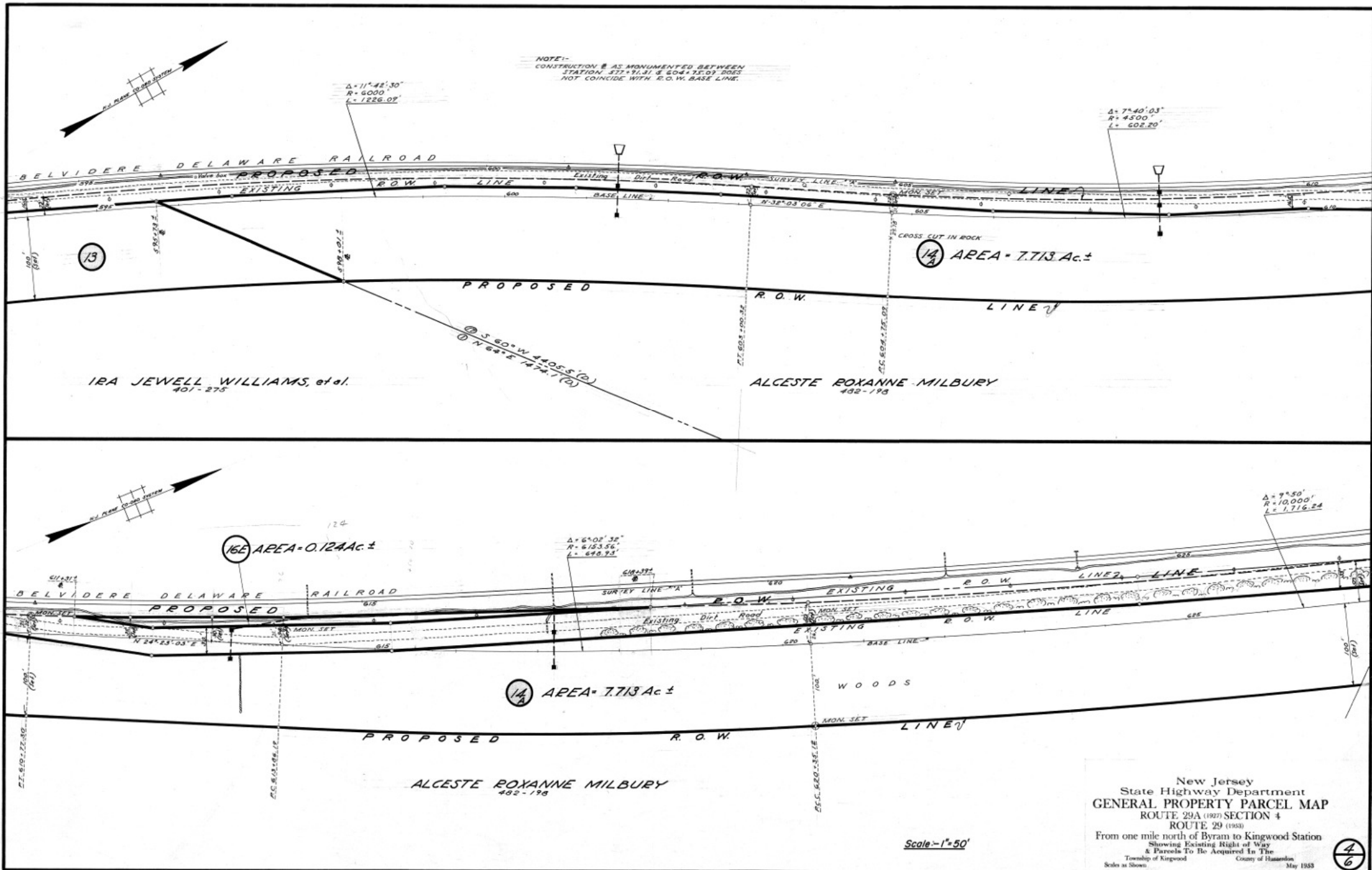
New Jersey
State Highway Department
GENERAL PROPERTY PARCEL MAP
ROUTE 29A (1927) SECTION 4
ROUTE 29 (1953)
From one mile north of Byram to Kingwood Station
Showing Existing Right of Way
& Parcels To Be Acquired In The
Township of Kingwood County of Hantsden
Scale as Shown May 1958



New Jersey
State Highway Department
GENERAL PROPERTY PARCEL MAP
ROUTE 29A (1927) SECTION 4
ROUTE 29 (1953)
From one mile north of Byram to Kingwood Station
Showing Existing Right of Way
& Parcels To Be Acquired In The
Township of Kingwood County of Hamden
May 1958

Scale - 1" = 50'

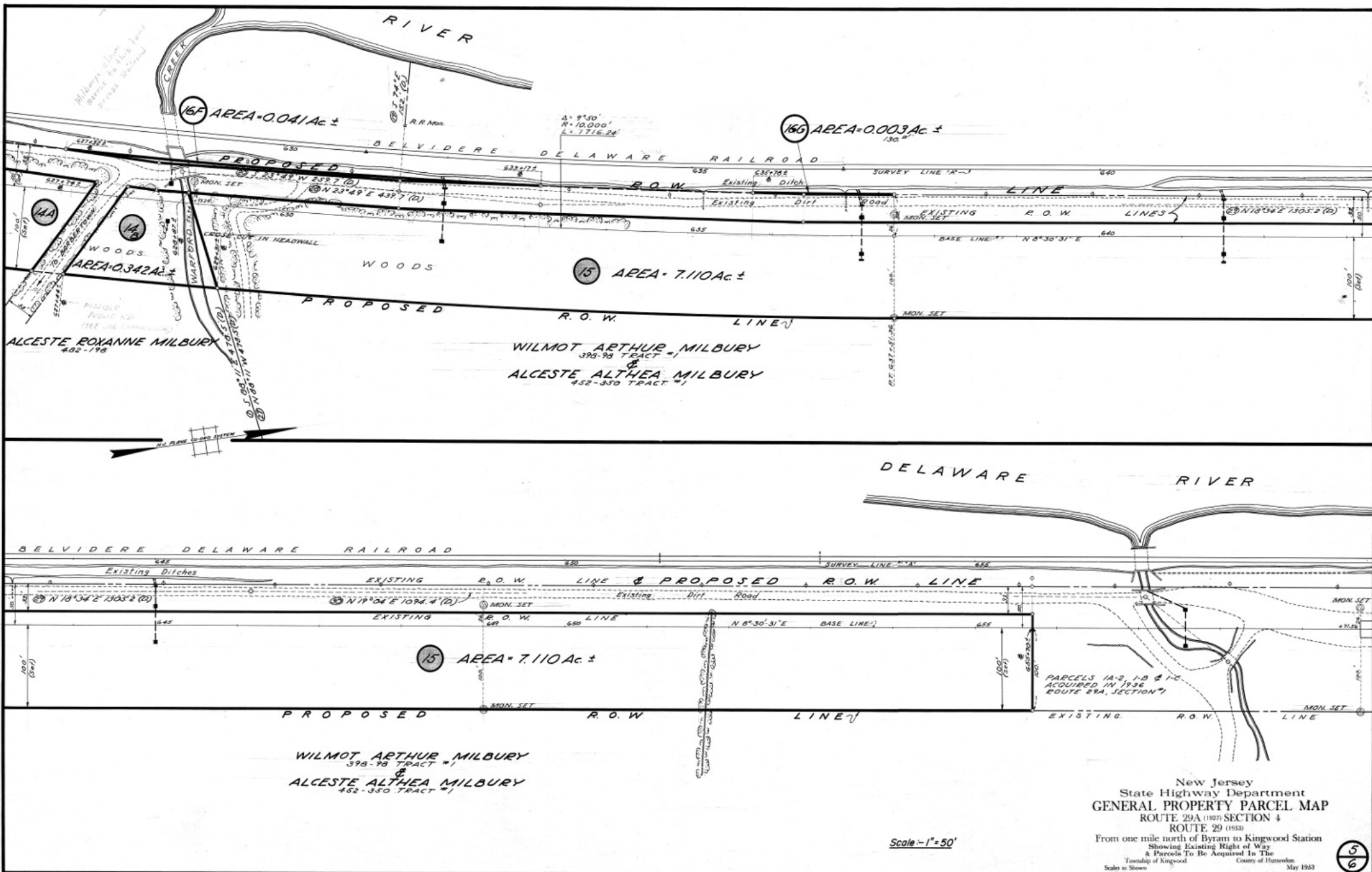
3/6



New Jersey
 State Highway Department
 GENERAL PROPERTY PARCEL MAP
 ROUTE 29A (1927) SECTION 4
 ROUTE 29 (1983)
 From one mile north of Byram to Kingwood Station
 Showing Existing Right of Way
 & Parcels To Be Acquired In The
 Township of Kingwood County of Hudson
 Scales as Shown May 1983

Scale = 1" = 50'

4/6

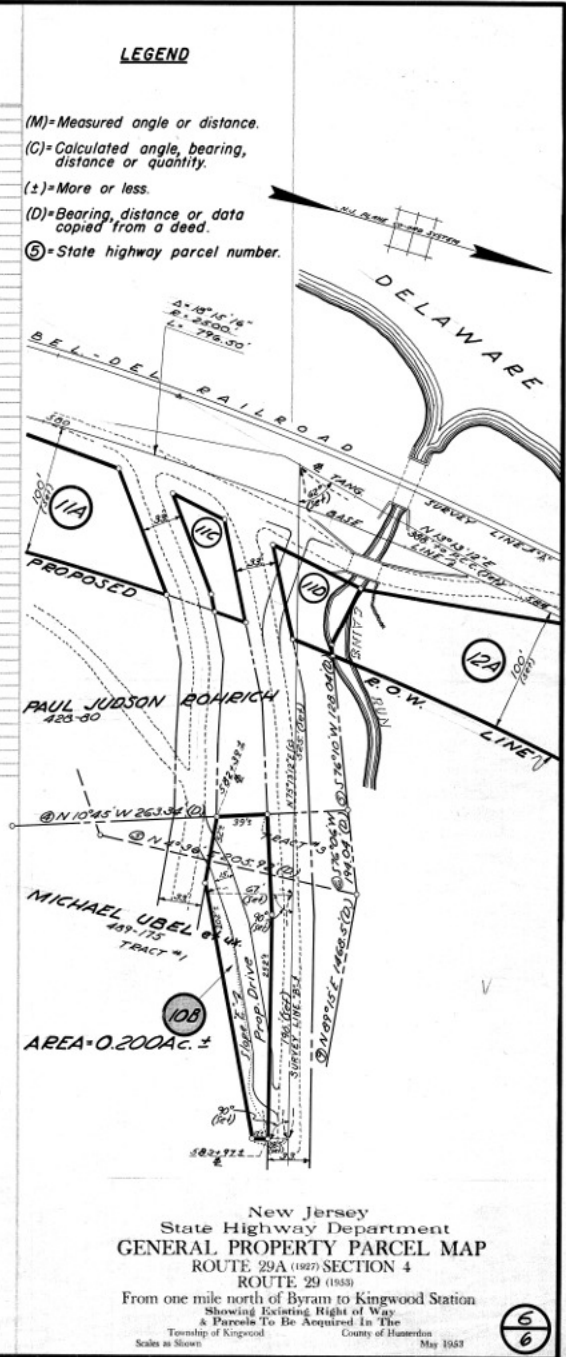


New Jersey
 State Highway Department
GENERAL PROPERTY PARCEL MAP
 ROUTE 29A (1927) SECTION 4
 ROUTE 29 (1933)
 From one mile north of Byram to Kingwood Station
 Showing Existing Right of Way
 & Parcels To Be Acquired In The
 Township of Kingwood County of Hunterdon
 Scale to Show May 1953

Scale - 1" = 50'

5
6

FILE NO.	PLAN SHEET NO.	PARCEL NO.	PARCEL AREA	EASEMENTS			SIDE	LOCATION		OWNERSHIP		DEEDS			REMARKS	
				SLOPES	DRIDGE	BRIDGE		FROM	TO	NAME	ADDRESS	BOOK	PAGE	COUNTY		
			Acres													
✓	1	1	3.678 ±				L&R	495+52 ±	511+59 ±	Vero E. Hoser	R. D. 4	483	416	Hunterdon	Note:- equation 499+63.00 back = 500+00.00 ahead.	
✓	1	2A	3.881 ±				L&R	511+50 ±	529+20 ±	Joseph O. Busik, Jr., et ux.	Point Pleasant, Pa.	511	54	"		
✓	1	2B	0.602 ±				L	511+62 ±	524+59 ±	"	"	"	"	"		
✓	2	3	0.515 ±				L&R	529+02 ±	531+11 ±	James Cooper & Mrs. Lewis Kummer	43 S. 13th St.	110	31	"		
✓	2	4	0.649 ±				L&R	531+00 ±	533+41 ±	Fanny Cooper	"	386	476	"		
✓	2	5	0.300 ±				L&R	533+37 ±	534+58 ±	Richard H. Rautenberg & June M. Rautenberg	4518 N. 18th St.	488	261	"		
✓	2	6	0.468 ±				L&R	533+40 ±	536+13 ±	Eugene J. Everson, et ux.	Point Pleasant, Pa.	436	381	"		
✓	2	7	0.947 ±				L&R	536+13 ±	539+42 ±	Paul D. Lawman, et ux.	Rohway, N. J.	487	211	"		
✓	2	8	3.230 ±				L&R	539+40 ±	550+02 ±	Samuel W. Kahn & Morris D. Barr	"	359	242	"		
✓	2	9A	1.840 ±				L&R	549+90 ±	558+92 ±	Frank & Elizabeth Bohren	Lambertville, N. J.	508	277	"		
✓	2	9B	0.941 ±				L&R	554+81 ±	561+53 ±	"	"	"	"	"		
✓	2	9C	2.601 ±				L&R	558+89 ±	570+56 ±	"	"	"	"	"		
✓	3	10A	1.311 ±				L&R	570+32 ±	576+37 ±	Michael Ubel, et ux.	"	489	175	"	Tract 1 & 3	
✓	3	10B	0.200 ±				R	582+39 ±	583+97 ±	"	"	"	"	"	For driveway.	
✓	3	11A	0.964 ±				R	576+12 ±	581+34 ±	Paul Judson Rohrich	Washington, D. C.	428	80	"	Note:- Driveway construction see parcel 10B	
✓	3	11B	0.049 ±				L&R	580+94 ±	582+84 ±	"	"	"	"	"		
✓	3	11C	0.054 ±				R	581+14 ±	582+04 ±	"	"	"	"	"		
✓	3	11D	0.074 ±				R	582+02 ±	582+80 ±	"	"	"	"	"		
✓	3	12A	0.781 ±				L&R	582+77 ±	589+44 ±	George M. Dittrich	52 Poplar St.	515	89	"	Note:- Rights of others (Bohren & Williams)	
✓	3	12B	0.019 ±				L&R	582+83 ±	583+59 ±	"	"	"	"	"		
✓	3&4	13	2.486 ±				L&R	585+36 ±	598+01 ±	Ira Jewell Williams, et al.	"	401	275	"		
✓	4&5	14A	7.713 ±				L&R	595+73 ±	627+74 ±	Alceste Roxanne Milbury	25 Prospect St.	482	198	"		
✓	5	14B	0.342 ±				L&R	627+44 ±	629+31 ±	"	"	398	98	"	Tract 1	
✓	5	15	7.110 ±				L&R	628+87 ±	655+70 ±	Wilma Arthur Milbury and Alceste Althea Milbury	"	452	350	"		
✓	1&2	16A	1.209 ±				L	498+16 ±	532+51.39 ±	Belvidere-Delaware Railroad Co.	"	"	"	"		
✓	2	16B	0.004 ±				L	533+25 ±	535+02 ±	"	"	"	"	"		
✓	2	16C	0.045 ±				L	554+10 ±	558+57 ±	"	"	"	"	"		
✓	2	16D	0.804 ±				L	560+93 ±	584+17 ±	"	"	"	"	"		
✓	4	16E	0.124 ±				L	611+31 ±	618+39 ±	"	"	"	"	"		
✓	5	16F	0.041 ±				L	627+32 ±	633+17 ±	"	"	"	"	"		
✓	5	16G	0.003 ±				L	635+78 ±	637+51.36 ±	"	"	"	"	"		



Appendix I

Alternatives Matrix

Table 1 - Comparison Matrix for Area A Mitigation Alternatives

Option	Description	Risk Reduction	Outside Right-of-Way	Required Ongoing Maintenance	Anticipated Service Life (Years)	Construction Impact	Construction Difficulty	Construction Duration (days)		Cost (\$1,000)		Aesthetic Impact
								Low	High	Low	High	
I	No Action	None	No	Status Quo - Periodic Rock Removal	N/A	None	N/A	0	0	0	0	Low
II	Removal - Re-grade with Catchment Ditch	Moderate	No	Low - Periodic Ditch Cleaning, Good for Snow Removal	> 50	High - At Least 1 Lane Required	Low	90	180	150	449	Moderate
III	Removal - Remove Vegetation and Scale	Moderate	No	Moderate - Continual Vegetation Removal and Scaling	5-10	Moderate - 1 Lane	Low	30	60	186	557	Moderate
IV	Removal/Protection - Remove Vegetation, Scale, and Install Draped Mesh	High	No	Low - Periodic Cleanup Below Mesh	20	Moderate - 1 Lane	Moderate	60	120	520	1,560	High
V	Removal/Protection - Re-slope and Construct Catchment Ditch, Install Draped Mesh on Upper Portion of Lower Cut Slope	High	No	Low - Periodic Ditch Cleaning, Beneficial for Snow Removal & Storage	20	High - At Least 1 Lane Required	Moderate	90	180	412	1,262	High
VI	Reinforcement - Install Grouted Dowels and Shotcrete Facing	High	No	None	20	High - At Least 1 Lane Required	High	90	180	847	2,540	High
VII	Reinforcement - Install Anchored Mesh, Spot Dowels/Rock Bolts	High	No	Low - Infrequently Repair Mesh/Remove Significant Rock Accumulation	20	Moderate - 1 Lane	High	60	120	832	2,496	High

Color Key:	Desirable	Neutral	Undesirable
Notes:			
1. Risk Reduction - Subjectively compares the amount of risk that can be mitigated with each proposed alternative.			
2. Right-of-Way - "No" means work remains within the NJDOT Right-of-Way, "Yes" means work is required outside of the NJDOT Right-of-Way.			
3. Required Maintenance is a subjective assessment of the degree to which the proposed mitigation requires ongoing periodic maintenance by highway operations personnel.			
4. Anticipated Service Life is an estimate of how long the proposed mitigation will function before needing additional alteration or replacement of elements.			
5. Construction Impact relates to the degree to which traffic will be impacted by the specific construction option.			
6. Construction Difficulty relates to how difficult the proposed mitigation would be to construct, considering access, environmental impacts, working conditions, and type of equipment and skills needed.			
7. Construction Duration is an estimate of the days required for actual work assuming 10-hour work days.			
8. Costs were developed from recent unit prices modified for the site-specific conditions.			
9. Aesthetic Impact is a subjective assessment of the degree to which the mitigation measures will be noticeable by park users and by the traveling public.			

Table 2 - Comparison Matrix for Areas B and C Mitigation Alternatives

Option	Description	Risk Reduction	Outside Right-of-Way	Required Ongoing Maintenance	Anticipated Service Life (Years)	Construction Impact	Construction Difficulty	Construction Duration (days)		Cost (\$1,000)		Aesthetic Impact
								Low	High	Low	High	
I	No Action	None	No	Status Quo - Periodic Rock Removal	N/A	None	N/A	0	0	0	0	Low
II	Protection - Re-slope, Construct Catchment Ditch, and Fence at Crest of Lower Slope	High	No	Low - Periodic Ditch Cleaning, Beneficial for Snow Removal & Storage	> 50	High - At Least 1 Lane Required	Low	60 B 180 C	90 B 270 C	5,350	16,049	High
III	Protection - Hybrid System - Barrier at Crest of Lower Slope and Draped Mesh on Lower Face	High	No	Moderate - Periodic Cleanup Below Mesh	20	High - At Least 1 Lane Required	Moderate	45 B 135 C	68 B 200 C	6,626	19,878	High
IV	Protection - Improved Catchment with Hybrid System (Combination of Options II and III)	High	No	Low - Periodic Ditch Cleaning, Good for Snow Removal	20	High - At Least 1 Lane Required	Moderate	60 B 180 C	90 B 270 C	8,621	25,864	High

Color Key:	Desirable	Neutral	Undesirable
Notes:			
1. Risk Reduction - Subjectively compares the amount of risk that can be mitigated with each proposed alternative.			
2. Right-of-Way - "No" means work remains within the NJDOT Right-of-Way, "Yes" means work is required outside of the NJDOT Right-of-Way.			
3. Required Maintenance is a subjective assessment of the degree to which the proposed mitigation requires ongoing periodic maintenance by highway operations personnel.			
4. Anticipated Service Life is an estimate of how long the proposed mitigation will function before needing additional alteration or replacement of elements.			
5. Construction Impact relates to the degree to which traffic will be impacted by the specific construction option.			
6. Construction Difficulty relates to how difficult the proposed mitigation would be to construct, considering access, environmental impacts, working conditions, and type of equipment and skills needed.			
7. Construction Duration is an estimate of the days required for actual work assuming 10-hour work days.			
8. Costs were developed from recent unit prices modified for the site-specific conditions.			
9. Aesthetic Impact is a subjective assessment of the degree to which the mitigation measures will be noticeable by park users and by the traveling public.			

Table 3 - Comparison Matrix for Area D Mitigation Alternatives

Option	Description	Risk Reduction	Outside Right-of-Way	Required Ongoing Maintenance	Anticipated Service Life (Years)	Construction Impact	Construction Difficulty	Construction Duration (days)		Cost (\$1,000)		Aesthetic Impact
								Low	High	Low	High	
I	No Action	None	No	Status Quo - Periodic Rock Removal	N/A	None	N/A	0	0	0	0	Low
II	Warning - Install Rockfall Warning Fence	Low	May Require TCE	Status Quo - Periodically Repair Fence	20	Low - Shoulder Closing	Moderate	30	60	1,373	4,118	Moderate
III	Monitoring - Inclinometer, Tiltmeters, and/or Routinely Scheduled LiDAR Survey	Low	May Require TCE	Status Quo - Maintain Monitoring Equipment	20	None	Moderate	30	60	1,290	3,869	Low
IV	Removal - Trim Blasting and Rock Removal using Airbags and Scaling	Moderate	May Require TCE	Moderate - Periodic Rock Removal	20	Low - Local Detour Required	High	30	60	3,131	9,392	Moderate
V	Reinforcement - Install Tensioned Rock Bolts, Dental Concrete, and Anchored Mesh	Moderate	May Require TCE	Moderate - Periodic Rock Removal	20	Moderate - 1 Lane	High	150	300	4,513	13,538	High
VI	Protection - Install Hybrid System Barrier at Crest of Lower Slope and Draped Mesh Below, or Draped Mesh with Sacrificial Fences	Moderate	No	Moderate - Periodic Rock Removal	20	Moderate - 1 Lane	Moderate	150	300	5,043	15,129	High
VII	Protection - Raise Roadway Elevation or Shift Roadway West	High	No	None	75	Moderate - Lane Shift	High	150	300	5,396	16,188	Moderate
VIII	Protection - Rock Shed over Road	High	No	None	75	Moderate - Lane Shift	High	180	360	8,564	25,692	High
IX	Combination - Localized Trim Blasting, Reinforcement of Devils Tea Table and Shotcrete or Dental Concrete	High	May Require TCE	Low - Periodic Rock Removal	20	Low - Local Detour Required	High	150	300	6,178	18,534	High

Color Key:	Desirable	Neutral	Undesirable
Notes:			
1. Typical notes from Table 1 and Table 2 are applicable to Table 3.			
2. TCE = Temporary Construction Easement.			

Appendix J

Utility Correspondence

**Route 29 Rockfall Mitigation
2014 Utility Efforts - Rockfall Mitigation SOW**

Company	Master Agreement	Letter #1 Sent	Letter #1 Response	Facilities in Limits?	PE Funds Requested	Comments/Questions/Notes
Aqua New Jersey		8/20/2014	8/26/2014	No	N/A	
Century Link	Y	8/20/2014	8/25/2014	Yes	\$3,500	
Colonial Pipeline		8/20/2014	N/A	No	N/A	08272014: Received call from Todd Rutledge and he confirmed not facilities in hunterdon county.
Elizabethtown Gas Company	Y	8/20/2014	8/25/2014	No	N/A	
Hunterdon County Public Works	N	8/20/2014	8/26/2014	No	N/A	
Hunterdon County Utilities Authority	N	8/20/2014	NR	No	N/A	09292014: Dissolved in 2012.
Hunterdon County Engineers Office		N/A	N/A	No	N/A	09292014: Spoke with engineers office. They stated that the [Hunterdon] county does not own any facilities on Route 29 because it's a state highway. Told to check with the state.
Jersey Central Power & Light	Y	8/20/2014	10/20/2014	Yes	\$5,000	09292014: Attempted call. Left voicemail.
Kingwood Public Works	N	8/20/2014	9/29/2014	No	N/A	09292014: Spoke with T. Decker and he confirmed that Kingwood Township does not own any aerial or underground facilities within Route 29. The township is primarily well and septic operated. 09292014: Attempted call. Left voicemail.
Level (3) Communications LLC	N	8/20/2014	N/A	No	N/A	10012014: J. Penney replied via email. 09292014: Emailed Jeffrey Penney, POC of contact that typically responds, letter # 1.
NJ American Water	Y	8/20/2014	9/8/2014	No	N/A	
NJ Natural Gas	Y	8/20/2014	8/22/2014	No	N/A	08222014: J. Kong replied via email.
Public Service GAS	Y	8/20/2014	8/27/2014	No	\$0	
Service Electric Cable	Y	8/20/2014	9/12/2014	No	N/A	
Sunesys	Y	8/20/2014	NR	NR	NR	
United Water	Y	8/20/2014	8/28/2014	No	N/A	
Van Cleef Associates (Kingwood Township Engineer)		8/20/2014	9/29/2014	No	N/A	09292014: Spoke with T. Decker and he confirmed that Kingwood Township does not own any aerial or underground facilities within Route 29. The township is primarily well and septic operated.
Verizon	Y	8/20/2014	10/6/2014	No	N/A	10062014: Thomas Grabowski responded via email. 09292014: Sent letter # 1 via email to Thomas Grabowski. 09292014: Emailed F. Antisell letter # 1.
Williams Transco		8/20/2014	9/29/2014	No	N/A	09292014: S. Yaruta replied via email. 09292014: Emailed S. Yaruta letter # 1.
Zayo Group LLC	N	8/20/2014	9/5/2014	No	N/A	09052014: Jim Jacobsen replied via email.

\$8,500

Last updated 11/20/14

NR - No Response

N/A - Not Applicable



August 19, 2014

*Mr. Stephen Gates and / or
Mr. James Barbato
Aqua New Jersey
10 Black Forest Road
Hamilton, NJ 08691*

Re:

Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130

Project Designer:

HNTB Corporation
2 Aquarium Drive
Suite 310
Camden, NJ 08103
ATTN: Luis Gaitan
(856) 536-3342 Direct
(856) 831-5391 Mobile

Dear Gentlemen,

The New Jersey Department of Transportation (NJDOT) has engaged us to perform concept development work for a project known as Route 29 Rockfall Mitigation in Kingwood Township. The project includes the study of potential rockfall mitigation measures based on recent and historic rockfall events along Route 29. The location of the project is shown on the enclosed key sheet. A *Scope of Work* is also attached to give you a better understanding of the work that is proposed for this project. Based upon this *Scope of Work*, please provide the amount of Preliminary Engineering charges you may incur. The NJDOT will set up funding for these charges and will reimburse you through a *Change Order* if additional funding is necessary.

In accordance with NJDOT Utility and Railroad Engineering Procedures, our preliminary investigation disclosed **Aqua New Jersey** is franchised to operate within the proposed project limits and may have facilities affected by the State's proposed construction.

Should you have existing or proposed plant within the project limits, it is necessary for us to verify your facilities and enter into an engineering dialog with you. Please complete the following questionnaire and return it to the Designer's Engineer by September 2, 2014.



August 19, 2014

Mr. Robert O'Connor, Jr.
Century Link
256 Paul Street
Belvidere, NJ 07823

Re:

Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130

Project Designer:

HNTB Corporation
2 Aquarium Drive
Suite 310
Camden, NJ 08103
ATTN: Luis Gaitan
(856) 536-3342 Direct
(856) 831-5391 Mobile

Dear Mr. O'Connor,

The New Jersey Department of Transportation (NJDOT) has engaged us to perform concept development work for a project known as Route 29 Rockfall Mitigation in Kingwood Township. The project includes the study of potential rockfall mitigation measures based on recent and historic rockfall events along Route 29. The location of the project is shown on the enclosed key sheet. A *Scope of Work* is also attached to give you a better understanding of the work that is proposed for this project. Based upon this *Scope of Work*, please provide the amount of Preliminary Engineering charges you may incur. The NJDOT will set up funding for these charges and will reimburse you through a *Change Order* if additional funding is necessary.

In accordance with NJDOT Utility and Railroad Engineering Procedures, our preliminary investigation disclosed **Century Link** is franchised to operate within the proposed project limits and may have facilities affected by the State's proposed construction.

Should you have existing or proposed plant within the project limits, it is necessary for us to verify your facilities and enter into an engineering dialog with you. Please complete the following questionnaire and return it to the Designer's Engineer by September 2, 2014.



August 19, 2014

Mr. Todd Rutledge
Senior ROW Inspector
Colonial Pipeline
400 Blair Road
Avenel, NJ 07001

Re:

Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130

Project Designer:

HNTB Corporation
2 Aquarium Drive
Suite 310
Camden, NJ 08103
ATTN: Luis Gaitan
(856) 536-3342 Direct
(856) 831-5391 Mobile

Dear Mr. Rutledge,

The New Jersey Department of Transportation (NJDOT) has engaged us to perform concept development work for a project known as Route 29 Rockfall Mitigation in Kingwood Township. The project includes the study of potential rockfall mitigation measures based on recent and historic rockfall events along Route 29. The location of the project is shown on the enclosed key sheet. A *Scope of Work* is also attached to give you a better understanding of the work that is proposed for this project. Based upon this *Scope of Work*, please provide the amount of Preliminary Engineering charges you may incur. The NJDOT will set up funding for these charges and will reimburse you through a *Change Order* if additional funding is necessary.

In accordance with NJDOT Utility and Railroad Engineering Procedures, our preliminary investigation disclosed **Colonial Pipeline** is franchised to operate within the proposed project limits and may have facilities affected by the State's proposed construction.

Should you have existing or proposed plant within the project limits, it is necessary for us to verify your facilities and enter into an engineering dialog with you. Please complete the following questionnaire and return it to the Designer's Engineer by September 2, 2014.



August 19, 2014

*Mr. John P. Gruenling, PE
Elizabethtown Gas Company
520 Green Lane
Union, NJ 07083*

Re:

Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130

Project Designer:

HNTB Corporation
2 Aquarium Drive
Suite 310
Camden, NJ 08103
ATTN: Luis Gaitan
(856) 536-3342 Direct
(856) 831-5391 Mobile

Dear Mr. Gruenling,

The New Jersey Department of Transportation (NJDOT) has engaged us to perform concept development work for a project known as Route 29 Rockfall Mitigation in Kingwood Township. The project includes the study of potential rockfall mitigation measures based on recent and historic rockfall events along Route 29. The location of the project is shown on the enclosed key sheet. A *Scope of Work* is also attached to give you a better understanding of the work that is proposed for this project. Based upon this *Scope of Work*, please provide the amount of Preliminary Engineering charges you may incur. The NJDOT will set up funding for these charges and will reimburse you through a *Change Order* if additional funding is necessary.

In accordance with NJDOT Utility and Railroad Engineering Procedures, our preliminary investigation disclosed **Elizabethtown Gas Company** is franchised to operate within the proposed project limits and may have facilities affected by the State's proposed construction.

Should you have existing or proposed plant within the project limits, it is necessary for us to verify your facilities and enter into an engineering dialog with you. Please complete the following questionnaire and return it to the Designer's Engineer by September 2, 2014.



August 19, 2014

Mr. Jeff Quick
Road Supervisor
Hunterdon County Public Works
P. O. Box 2900
Flemington, NJ 08822-1178

Re:

Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130

Project Designer:

HNTB Corporation
2 Aquarium Drive
Suite 310
Camden, NJ 08103
ATTN: Luis Gaitan
(856) 536-3342 Direct
(856) 831-5391 Mobile

Dear Mr. Quick,

The New Jersey Department of Transportation (NJDOT) has engaged us to perform concept development work for a project known as Route 29 Rockfall Mitigation in Kingwood Township. The project includes the study of potential rockfall mitigation measures based on recent and historic rockfall events along Route 29. The location of the project is shown on the enclosed key sheet. A *Scope of Work* is also attached to give you a better understanding of the work that is proposed for this project. Based upon this *Scope of Work*, please provide the amount of Preliminary Engineering charges you may incur. The NJDOT will set up funding for these charges and will reimburse you through a *Change Order* if additional funding is necessary.

In accordance with NJDOT Utility and Railroad Engineering Procedures, our preliminary investigation disclosed **Hunterdon County Public Works** is franchised to operate within the proposed project limits and may have facilities affected by the State's proposed construction.

Should you have existing or proposed plant within the project limits, it is necessary for us to verify your facilities and enter into an engineering dialog with you. Please complete the following questionnaire and return it to the Designer's Engineer by September 2, 2014.



August 19, 2014

Mr. Alan Johnson
Director
Hunterdon County Utilities Authority
P. O. Box 2900
Flemington, NJ 08822-1178

Re:

Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130

Project Designer:

HNTB Corporation
2 Aquarium Drive
Suite 310
Camden, NJ 08103
ATTN: Luis Gaitan
(856) 536-3342 Direct
(856) 831-5391 Mobile

Dear Mr. Johnson,

The New Jersey Department of Transportation (NJDOT) has engaged us to perform concept development work for a project known as Route 29 Rockfall Mitigation in Kingwood Township. The project includes the study of potential rockfall mitigation measures based on recent and historic rockfall events along Route 29. The location of the project is shown on the enclosed key sheet. A *Scope of Work* is also attached to give you a better understanding of the work that is proposed for this project. Based upon this *Scope of Work*, please provide the amount of Preliminary Engineering charges you may incur. The NJDOT will set up funding for these charges and will reimburse you through a *Change Order* if additional funding is necessary.

In accordance with NJDOT Utility and Railroad Engineering Procedures, our preliminary investigation disclosed **Hunterdon County Utilities Authority** is franchised to operate within the proposed project limits and may have facilities affected by the State's proposed construction.

Should you have existing or proposed plant within the project limits, it is necessary for us to verify your facilities and enter into an engineering dialog with you. Please complete the following questionnaire and return it to the Designer's Engineer by September 2, 2014.



August 19, 2014

Mr. Harvey Lockley
Jersey Central Power & Light
One River Centre
311 Newman Springs Road, Bldg 3
Red Bank, NJ 07701

Re:

Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130

Project Designer:

HNTB Corporation
2 Aquarium Drive
Suite 310
Camden, NJ 08103
ATTN: Luis Gaitan
(856) 536-3342 Direct
(856) 831-5391 Mobile

Dear Mr. Lockley,

The New Jersey Department of Transportation (NJDOT) has engaged us to perform concept development work for a project known as Route 29 Rockfall Mitigation in Kingwood Township. The project includes the study of potential rockfall mitigation measures based on recent and historic rockfall events along Route 29. The location of the project is shown on the enclosed key sheet. A *Scope of Work* is also attached to give you a better understanding of the work that is proposed for this project. Based upon this *Scope of Work*, please provide the amount of Preliminary Engineering charges you may incur. The NJDOT will set up funding for these charges and will reimburse you through a *Change Order* if additional funding is necessary.

In accordance with NJDOT Utility and Railroad Engineering Procedures, our preliminary investigation disclosed **Jersey Central Power & Light** is franchised to operate within the proposed project limits and may have facilities affected by the State's proposed construction.

Should you have existing or proposed plant within the project limits, it is necessary for us to verify your facilities and enter into an engineering dialog with you. Please complete the following questionnaire and return it to the Designer's Engineer by September 2, 2014.



August 19, 2014

Mr. Philip Lubitz
Supervisor
Kingwood Public Works
P. O. Box 199
Baptistown, NJ 08803-0199

Re:

Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130

Project Designer:

HNTB Corporation
2 Aquarium Drive
Suite 310
Camden, NJ 08103
ATTN: Luis Gaitan
(856) 536-3342 Direct
(856) 831-5391 Mobile

Dear Mr. Lubitz,

The New Jersey Department of Transportation (NJDOT) has engaged us to perform concept development work for a project known as Route 29 Rockfall Mitigation in Kingwood Township. The project includes the study of potential rockfall mitigation measures based on recent and historic rockfall events along Route 29. The location of the project is shown on the enclosed key sheet. A *Scope of Work* is also attached to give you a better understanding of the work that is proposed for this project. Based upon this *Scope of Work*, please provide the amount of Preliminary Engineering charges you may incur. The NJDOT will set up funding for these charges and will reimburse you through a *Change Order* if additional funding is necessary.

In accordance with NJDOT Utility and Railroad Engineering Procedures, our preliminary investigation disclosed **Kingwood Public Works** is franchised to operate within the proposed project limits and may have facilities affected by the State's proposed construction.

Should you have existing or proposed plant within the project limits, it is necessary for us to verify your facilities and enter into an engineering dialog with you. Please complete the following questionnaire and return it to the Designer's Engineer by September 2, 2014.



August 19, 2014

Mr. Ray Manuwald
Level 3 Communications
225 Old New Brunswick Road, 104
Piscataway, NJ 08854

Re:

Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130

Project Designer:

HNTB Corporation
2 Aquarium Drive
Suite 310
Camden, NJ 08103
ATTN: Luis Gaitan
(856) 536-3342 Direct
(856) 831-5391 Mobile

Dear Mr. Manuwald,

The New Jersey Department of Transportation (NJDOT) has engaged us to perform concept development work for a project known as Route 29 Rockfall Mitigation in Kingwood Township. The project includes the study of potential rockfall mitigation measures based on recent and historic rockfall events along Route 29. The location of the project is shown on the enclosed key sheet. A *Scope of Work* is also attached to give you a better understanding of the work that is proposed for this project. Based upon this *Scope of Work*, please provide the amount of Preliminary Engineering charges you may incur. The NJDOT will set up funding for these charges and will reimburse you through a *Change Order* if additional funding is necessary.

In accordance with NJDOT Utility and Railroad Engineering Procedures, our preliminary investigation disclosed **Level 3 Communications** is franchised to operate within the proposed project limits and may have facilities affected by the State's proposed construction.

Should you have existing or proposed plant within the project limits, it is necessary for us to verify your facilities and enter into an engineering dialog with you. Please complete the following questionnaire and return it to the Designer's Engineer by September 2, 2014.



August 19, 2014

*Mr. Joseph Davignon
New Jersey American Water Company
120 Raider Boulevard
Hillsborough, NJ 08844*

Re:

Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130

Project Designer:

HNTB Corporation
2 Aquarium Drive
Suite 310
Camden, NJ 08103
ATTN: Luis Gaitan
(856) 536-3342 Direct
(856) 831-5391 Mobile

Dear Mr. Davignon,

The New Jersey Department of Transportation (NJDOT) has engaged us to perform concept development work for a project known as Route 29 Rockfall Mitigation in Kingwood Township. The project includes the study of potential rockfall mitigation measures based on recent and historic rockfall events along Route 29. The location of the project is shown on the enclosed key sheet. A *Scope of Work* is also attached to give you a better understanding of the work that is proposed for this project. Based upon this *Scope of Work*, please provide the amount of Preliminary Engineering charges you may incur. The NJDOT will set up funding for these charges and will reimburse you through a *Change Order* if additional funding is necessary.

In accordance with NJDOT Utility and Railroad Engineering Procedures, our preliminary investigation disclosed **New Jersey American Water Company** is franchised to operate within the proposed project limits and may have facilities affected by the State's proposed construction.

Should you have existing or proposed plant within the project limits, it is necessary for us to verify your facilities and enter into an engineering dialog with you. Please complete the following questionnaire and return it to the Designer's Engineer by September 2, 2014.



August 19, 2014

Mr. John Kong
Senior Engineer Technician
New Jersey Natural Gas
P. O. Box 1464
Wall, NJ 07719

Re:

Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130

Project Designer:

HNTB Corporation
2 Aquarium Drive
Suite 310
Camden, NJ 08103
ATTN: Luis Gaitan
(856) 536-3342 Direct
(856) 831-5391 Mobile

Dear Mr. Kong,

The New Jersey Department of Transportation (NJDOT) has engaged us to perform concept development work for a project known as Route 29 Rockfall Mitigation in Kingwood Township. The project includes the study of potential rockfall mitigation measures based on recent and historic rockfall events along Route 29. The location of the project is shown on the enclosed key sheet. A *Scope of Work* is also attached to give you a better understanding of the work that is proposed for this project. Based upon this *Scope of Work*, please provide the amount of Preliminary Engineering charges you may incur. The NJDOT will set up funding for these charges and will reimburse you through a *Change Order* if additional funding is necessary.

In accordance with NJDOT Utility and Railroad Engineering Procedures, our preliminary investigation disclosed **New Jersey Natural Gas** is franchised to operate within the proposed project limits and may have facilities affected by the State's proposed construction.

Should you have existing or proposed plant within the project limits, it is necessary for us to verify your facilities and enter into an engineering dialog with you. Please complete the following questionnaire and return it to the Designer's Engineer by September 2, 2014.



August 19, 2014

Mr. Len Pannucci, PMP
Program Manager
PSE & G Gas
4000 Hadley Road
South Plainfield, NJ 07080

Re:
Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130

Project Designer:
HNTB Corporation
2 Aquarium Drive
Suite 310
Camden, NJ 08103
ATTN: Luis Gaitan
(856) 536-3342 Direct
(856) 831-5391 Mobile

Dear Mr. Pannucci,

The New Jersey Department of Transportation (NJDOT) has engaged us to perform concept development work for a project known as Route 29 Rockfall Mitigation in Kingwood Township. The project includes the study of potential rockfall mitigation measures based on recent and historic rockfall events along Route 29. The location of the project is shown on the enclosed key sheet. A *Scope of Work* is also attached to give you a better understanding of the work that is proposed for this project. Based upon this *Scope of Work*, please provide the amount of Preliminary Engineering charges you may incur. The NJDOT will set up funding for these charges and will reimburse you through a *Change Order* if additional funding is necessary.

In accordance with NJDOT Utility and Railroad Engineering Procedures, our preliminary investigation disclosed **PSE & G Gas** is franchised to operate within the proposed project limits and may have facilities affected by the State's proposed construction.

Should you have existing or proposed plant within the project limits, it is necessary for us to verify your facilities and enter into an engineering dialog with you. Please complete the following questionnaire and return it to the Designer's Engineer by September 2, 2014.



August 19, 2014

Mr. Darryl Reccek
Service Electric Cable
2260 Avenue A
Bethlehem, PA 18017

Re:

Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130

Project Designer:

HNTB Corporation
2 Aquarium Drive
Suite 310
Camden, NJ 08103
ATTN: Luis Gaitan
(856) 536-3342 Direct
(856) 831-5391 Mobile

Dear Mr. Reccek,

The New Jersey Department of Transportation (NJDOT) has engaged us to perform concept development work for a project known as Route 29 Rockfall Mitigation in Kingwood Township. The project includes the study of potential rockfall mitigation measures based on recent and historic rockfall events along Route 29. The location of the project is shown on the enclosed key sheet. A *Scope of Work* is also attached to give you a better understanding of the work that is proposed for this project. Based upon this *Scope of Work*, please provide the amount of Preliminary Engineering charges you may incur. The NJDOT will set up funding for these charges and will reimburse you through a *Change Order* if additional funding is necessary.

In accordance with NJDOT Utility and Railroad Engineering Procedures, our preliminary investigation disclosed **Service Electric Cable** is franchised to operate within the proposed project limits and may have facilities affected by the State's proposed construction.

Should you have existing or proposed plant within the project limits, it is necessary for us to verify your facilities and enter into an engineering dialog with you. Please complete the following questionnaire and return it to the Designer's Engineer by September 2, 2014.



August 19, 2014

Mr. Emmet Flynn
Program Manager
Sunesys
202 Titus Avenue
Warrington, PA 18976

Re:

Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130

Project Designer:

HNTB Corporation
2 Aquarium Drive
Suite 310
Camden, NJ 08103
ATTN: Luis Gaitan
(856) 536-3342 Direct
(856) 831-5391 Mobile

Dear Mr. Flynn,

The New Jersey Department of Transportation (NJDOT) has engaged us to perform concept development work for a project known as Route 29 Rockfall Mitigation in Kingwood Township. The project includes the study of potential rockfall mitigation measures based on recent and historic rockfall events along Route 29. The location of the project is shown on the enclosed key sheet. A *Scope of Work* is also attached to give you a better understanding of the work that is proposed for this project. Based upon this *Scope of Work*, please provide the amount of Preliminary Engineering charges you may incur. The NJDOT will set up funding for these charges and will reimburse you through a *Change Order* if additional funding is necessary.

In accordance with NJDOT Utility and Railroad Engineering Procedures, our preliminary investigation disclosed **Sunesys** is franchised to operate within the proposed project limits and may have facilities affected by the State's proposed construction.

Should you have existing or proposed plant within the project limits, it is necessary for us to verify your facilities and enter into an engineering dialog with you. Please complete the following questionnaire and return it to the Designer's Engineer by September 2, 2014.



August 19, 2014

*Mr. Frank McGlynn
United Water
60 Devoe Plaza
Hackensack, NJ 07601*

Re:

Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130

Project Designer:

HNTB Corporation
2 Aquarium Drive
Suite 310
Camden, NJ 08103
ATTN: Luis Gaitan
(856) 536-3342 Direct
(856) 831-5391 Mobile

Dear Mr. McGlynn,

The New Jersey Department of Transportation (NJDOT) has engaged us to perform concept development work for a project known as Route 29 Rockfall Mitigation in Kingwood Township. The project includes the study of potential rockfall mitigation measures based on recent and historic rockfall events along Route 29. The location of the project is shown on the enclosed key sheet. A *Scope of Work* is also attached to give you a better understanding of the work that is proposed for this project. Based upon this *Scope of Work*, please provide the amount of Preliminary Engineering charges you may incur. The NJDOT will set up funding for these charges and will reimburse you through a *Change Order* if additional funding is necessary.

In accordance with NJDOT Utility and Railroad Engineering Procedures, our preliminary investigation disclosed **United Water** is franchised to operate within the proposed project limits and may have facilities affected by the State's proposed construction.

Should you have existing or proposed plant within the project limits, it is necessary for us to verify your facilities and enter into an engineering dialog with you. Please complete the following questionnaire and return it to the Designer's Engineer by September 2, 2014.



August 19, 2014

Mr. Thomas Decker
Kingwood Township Engineer
Van Cleef Associates
1128 Route 31
Lebanon, NJ 08833

Re:

Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130

Project Designer:

HNTB Corporation
2 Aquarium Drive
Suite 310
Camden, NJ 08103
ATTN: Luis Gaitan
(856) 536-3342 Direct
(856) 831-5391 Mobile

Dear Mr. Decker,

The New Jersey Department of Transportation (NJDOT) has engaged us to perform concept development work for a project known as Route 29 Rockfall Mitigation in Kingwood Township. The project includes the study of potential rockfall mitigation measures based on recent and historic rockfall events along Route 29. The location of the project is shown on the enclosed key sheet. A *Scope of Work* is also attached to give you a better understanding of the work that is proposed for this project. Based upon this *Scope of Work*, please provide the amount of Preliminary Engineering charges you may incur. The NJDOT will set up funding for these charges and will reimburse you through a *Change Order* if additional funding is necessary.

In accordance with NJDOT Utility and Railroad Engineering Procedures, our preliminary investigation disclosed **Van Cleef Associates** is franchised to operate within the proposed project limits and may have facilities affected by the State's proposed construction.

Should you have existing or proposed plant within the project limits, it is necessary for us to verify your facilities and enter into an engineering dialog with you. Please complete the following questionnaire and return it to the Designer's Engineer by September 2, 2014.



August 19, 2014

Mr. Frank Antisell
Manager
Verizon
6000 Hadley Avenue
South Plainfield, NJ 07080

Re:
Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130

Project Designer:
HNTB Corporation
2 Aquarium Drive
Suite 310
Camden, NJ 08103
ATTN: Luis Gaitan
(856) 536-3342 Direct
(856) 831-5391 Mobile

Dear Mr. Antisell,

The New Jersey Department of Transportation (NJDOT) has engaged us to perform concept development work for a project known as Route 29 Rockfall Mitigation in Kingwood Township. The project includes the study of potential rockfall mitigation measures based on recent and historic rockfall events along Route 29. The location of the project is shown on the enclosed key sheet. A *Scope of Work* is also attached to give you a better understanding of the work that is proposed for this project. Based upon this *Scope of Work*, please provide the amount of Preliminary Engineering charges you may incur. The NJDOT will set up funding for these charges and will reimburse you through a *Change Order* if additional funding is necessary.

In accordance with NJDOT Utility and Railroad Engineering Procedures, our preliminary investigation disclosed **Verizon** is franchised to operate within the proposed project limits and may have facilities affected by the State's proposed construction.

Should you have existing or proposed plant within the project limits, it is necessary for us to verify your facilities and enter into an engineering dialog with you. Please complete the following questionnaire and return it to the Designer's Engineer by September 2, 2014.



August 19, 2014

Mr. Steve Yaruta
Division Engineer
Williams Transco Gas
99 Farber Road
Princeton, NJ 08540

Re:

Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130

Project Designer:

HNTB Corporation
2 Aquarium Drive
Suite 310
Camden, NJ 08103
ATTN: Luis Gaitan
(856) 536-3342 Direct
(856) 831-5391 Mobile

Dear Mr. Yaruta,

The New Jersey Department of Transportation (NJDOT) has engaged us to perform concept development work for a project known as Route 29 Rockfall Mitigation in Kingwood Township. The project includes the study of potential rockfall mitigation measures based on recent and historic rockfall events along Route 29. The location of the project is shown on the enclosed key sheet. A *Scope of Work* is also attached to give you a better understanding of the work that is proposed for this project. Based upon this *Scope of Work*, please provide the amount of Preliminary Engineering charges you may incur. The NJDOT will set up funding for these charges and will reimburse you through a *Change Order* if additional funding is necessary.

In accordance with NJDOT Utility and Railroad Engineering Procedures, our preliminary investigation disclosed **Williams Transco Gas** is franchised to operate within the proposed project limits and may have facilities affected by the State's proposed construction.

Should you have existing or proposed plant within the project limits, it is necessary for us to verify your facilities and enter into an engineering dialog with you. Please complete the following questionnaire and return it to the Designer's Engineer by September 2, 2014.



August 19, 2014

Mr. Jim Jacobsen
OSP Project Manager
Zayo
1101 East Linden Avenue
Linden, NJ 07036

Re:

Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130

Project Designer:

HNTB Corporation
2 Aquarium Drive
Suite 310
Camden, NJ 08103
ATTN: Luis Gaitan
(856) 536-3342 Direct
(856) 831-5391 Mobile

Dear Mr. Jacobsen,

The New Jersey Department of Transportation (NJDOT) has engaged us to perform concept development work for a project known as Route 29 Rockfall Mitigation in Kingwood Township. The project includes the study of potential rockfall mitigation measures based on recent and historic rockfall events along Route 29. The location of the project is shown on the enclosed key sheet. A *Scope of Work* is also attached to give you a better understanding of the work that is proposed for this project. Based upon this *Scope of Work*, please provide the amount of Preliminary Engineering charges you may incur. The NJDOT will set up funding for these charges and will reimburse you through a *Change Order* if additional funding is necessary.

In accordance with NJDOT Utility and Railroad Engineering Procedures, our preliminary investigation disclosed **Zayo** is franchised to operate within the proposed project limits and may have facilities affected by the State's proposed construction.

Should you have existing or proposed plant within the project limits, it is necessary for us to verify your facilities and enter into an engineering dialog with you. Please complete the following questionnaire and return it to the Designer's Engineer by September 2, 2014.

The Company Engineer to be contacted is:

Name _____
Company _____
Title _____
Address _____

Tel: _____
Fax: _____

The UTILITY AGREEMENT shall be sent to the following person:

Same as above or fill in below:

Name _____
Company _____
Title _____
Address _____

Tel: _____
Fax: _____

The amount of Preliminary Engineering funding needed will be \$_____
(This amount is only an estimate)

We DO HAVE existing facilities within (or adjacent to) the project limits.

We DO NOT HAVE existing facilities within (or adjacent to) the project limits.

We HAVE PROPOSED facilities planned within (or adjacent to) the project limits.

Page Three
Re: Route 29 Rockfall Mitigation
UPC #: 114130

The following companies are tenants on/in our facilities within the project limits:

We would like the NJDOT to arrange for the following work to be done for our facilities should it be necessary for them to be relocated or modified.

Design/Engineering

Construction – Some or All? _____

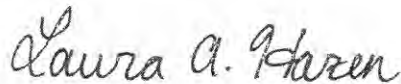
Neither – the Company will perform (or arrange to have performed) all needed work.

Not certain at this time.

Questions concerning this matter should be directed to the Design Engineer noted in the caption above or the NJDOT Utility Coordinator, Mr. Frank Pinto at (609) 530-2881.

Thank you for your cooperation in this matter.

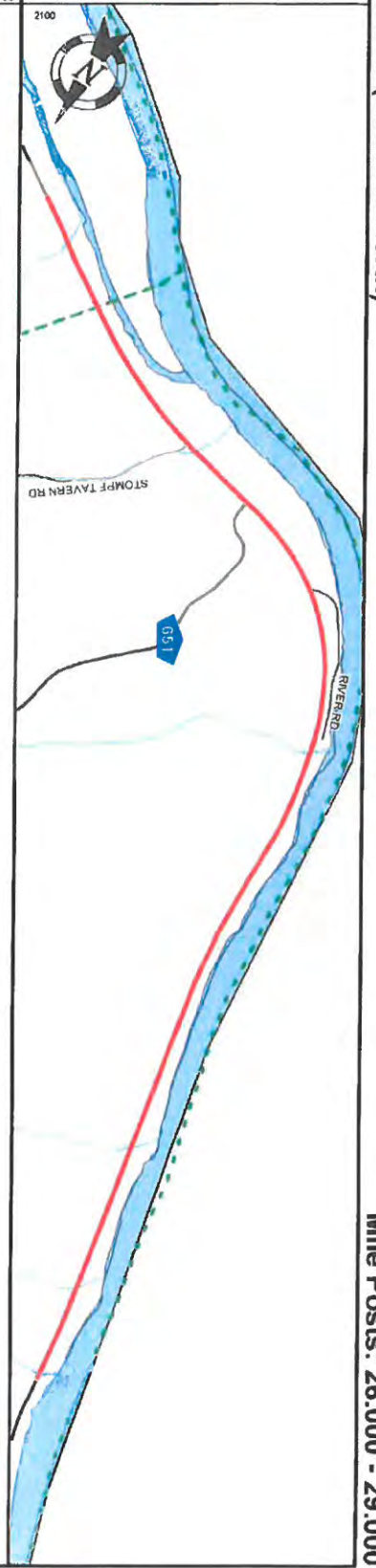
Sincerely,



Laura Hazen, PE
Lead Engineer

Attachments

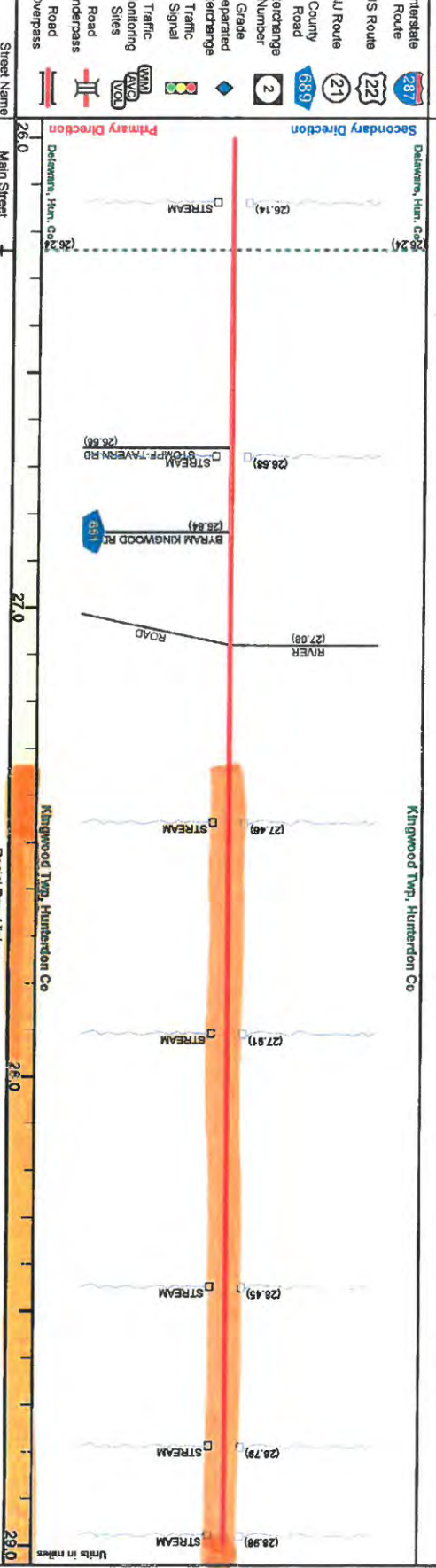
cc: Jim Conrey, Project Manager, NJDOT
Scott Burrowes, Project Manager, HNTB
Luis Gaitan, HNTB



Pavement
Shoulder

Number of Lanes
Speed Limit

Street Name



Street Name
Main Street

Jurisdiction
N.J.D.O.T.

Functional Class
Rural Minor Arterial

Federal Aid - NHS SY
STP

Control Section
STP

Speed Limit
1008

Number of Lanes
50

Med_Type
None

Med_Width
0

Pavement
24

Shoulder
10

Traffic Volume
1,250 (2007)

Traffic Sta. ID
5-4-306

Structure No.
100g152

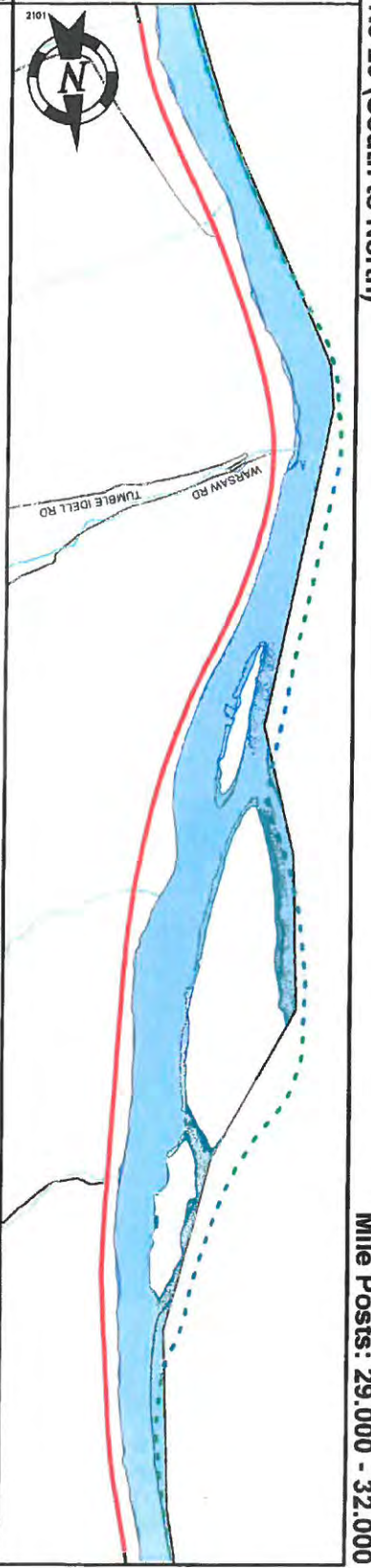
Enlarged Views
100g152 100g153 100g154 100g155 100g156 100g157

SRI = 00000029

Date last inventoried: April 2009

NJ 29 (South to North)

Mile Posts: 29.000 - 32.000



Pavement Shoulder Number of Lanes Speed Limit Street Name	Kingswood Twp, Hunterdon Co Daniel Bray Highway N.J.D.O.T. Rural Minor Arterial STP
Interstate Route US Route NJ Route County Road Interchange Number Grade Separated Interchange Traffic Signal Traffic Monitoring Siles Road Underpass Road Overpass	(29.42) (29.47) TUMBLE FALLS RD (29.87) (29.85) WARSAW RD (30.75) WARFORD CREEK CK (31.31) WARFORD CREEK CK BARBERTON RD WARFORD CREEK CK KINGWOOD TWP, HUNTERDON CO 29.0 30.0 31.0 32.0 Units in miles
Jurisdiction Functional Class Federal Aid - NMS Sy Control Section Speed Limit Number of Lanes Med. Type Med. Width Pavement Shoulder Traffic Volume Traffic Sta. ID Structure No. Enlarged Views	1008 50 2 None 0 24 6 10 1008 1008 1008158 1008158 1008150 1008151

SRI = 00000029

Date last inventoried: April 2009

Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township, Hunterdon County

CONCEPT DEVELOPMENT (CD)

The New Jersey Department of Transportation (NJDOT) identified Route 29 from Milepost 27.4 to 30.45 as being in need of rockfall mitigation based on recent and historic rockfall events within the project limits. NJDOT is currently undertaking a Concept Development phase project to determine the methods of rockfall mitigation to be proposed for four design sections within the project limits. Potential improvements will include removal, reinforcement, and protection methods. Roadway improvements will be limited to pavement repair adjacent to any proposed concrete barrier.



August 19, 2014

Mr. Robert O'Connor, Jr.
Century Link
256 Paul Street
Belvidere, NJ 07823

Re:

Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130

Project Designer:

HNTB Corporation
2 Aquarium Drive
Suite 310
Camden, NJ 08103
ATTN: Luis Gaitan
(856) 536-3342 Direct
(856) 831-5391 Mobile

Dear Mr. O'Connor,

The New Jersey Department of Transportation (NJDOT) has engaged us to perform concept development work for a project known as Route 29 Rockfall Mitigation in Kingwood Township. The project includes the study of potential rockfall mitigation measures based on recent and historic rockfall events along Route 29. The location of the project is shown on the enclosed key sheet. A *Scope of Work* is also attached to give you a better understanding of the work that is proposed for this project. Based upon this *Scope of Work*, please provide the amount of Preliminary Engineering charges you may incur. The NJDOT will set up funding for these charges and will reimburse you through a *Change Order* if additional funding is necessary.

In accordance with NJDOT Utility and Railroad Engineering Procedures, our preliminary investigation disclosed **Century Link** is franchised to operate within the proposed project limits and may have facilities affected by the State's proposed construction.

Should you have existing or proposed plant within the project limits, it is necessary for us to verify your facilities and enter into an engineering dialog with you. Please complete the following questionnaire and return it to the Designer's Engineer by September 2, 2014.

Page Two
Re: Route 29 Rockfall Mitigation
UPC #: 114130



The Company Engineer to be contacted is:

Name Robert O'Connor, Jr.
Company CenturyLink
Title Senior Engineer
Address 256 Paul Street
Belvidere, N.J. 07823

Tel: 908-735-3543
Fax: 908-453-7307

The UTILITY AGREEMENT shall be sent to the following person:

Same as above or fill in below:

Name _____
Company _____
Title _____
Address _____

Tel: _____
Fax: _____

The amount of Preliminary Engineering funding needed will be \$ 3500.00
(This amount is only an estimate)

We DO HAVE existing facilities within (or adjacent to) the project limits.

We DO NOT HAVE existing facilities within (or adjacent to) the project limits.

We HAVE PROPOSED facilities planned within (or adjacent to) the project limits.

Page Three
Re: Route 29 Rockfall Mitigation
UPC #: 114130



The following companies are tenants on/in our facilities within the project limits:

We would like the NJDOT to arrange for the following work to be done for our facilities should it be necessary for them to be relocated or modified.

- Design/Engineering
- Construction – Some or All? _____
- Neither – the Company will perform (or arrange to have performed) all needed work.
- Not certain at this time.

Questions concerning this matter should be directed to the Design Engineer noted in the caption above or the NJDOT Utility Coordinator, Mr. Frank Pinto at (609) 530-2881.

Thank you for your cooperation in this matter.

Sincerely,

Laura A. Hazen

Laura Hazen, PE
Lead Engineer

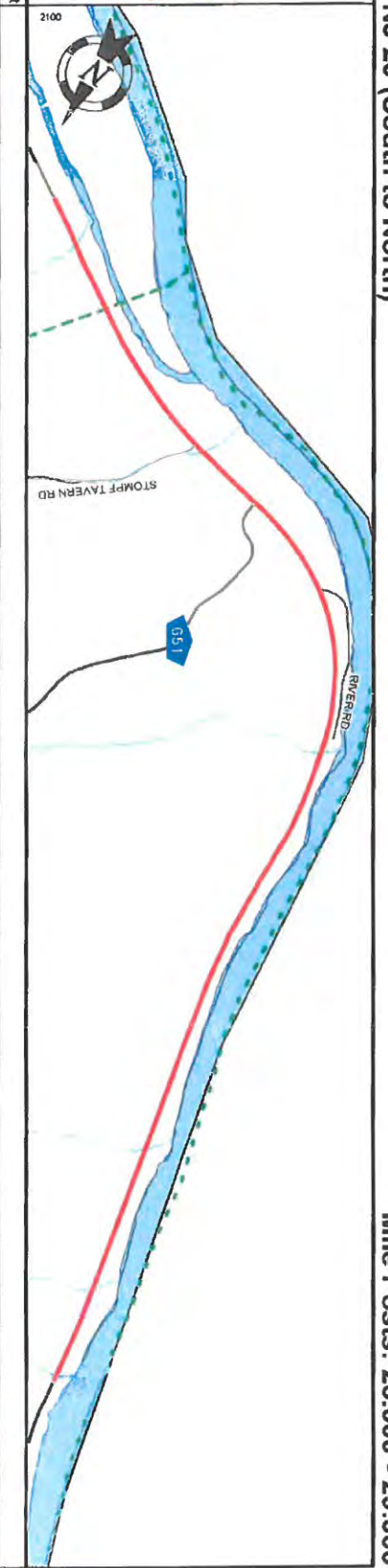
Attachments

cc: Jim Conrey, Project Manager, NJDOT
Scott Burrowes, Project Manager, HNTB
Luis Gaitan, HNTB

Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township, Hunterdon County

CONCEPT DEVELOPMENT (CD)

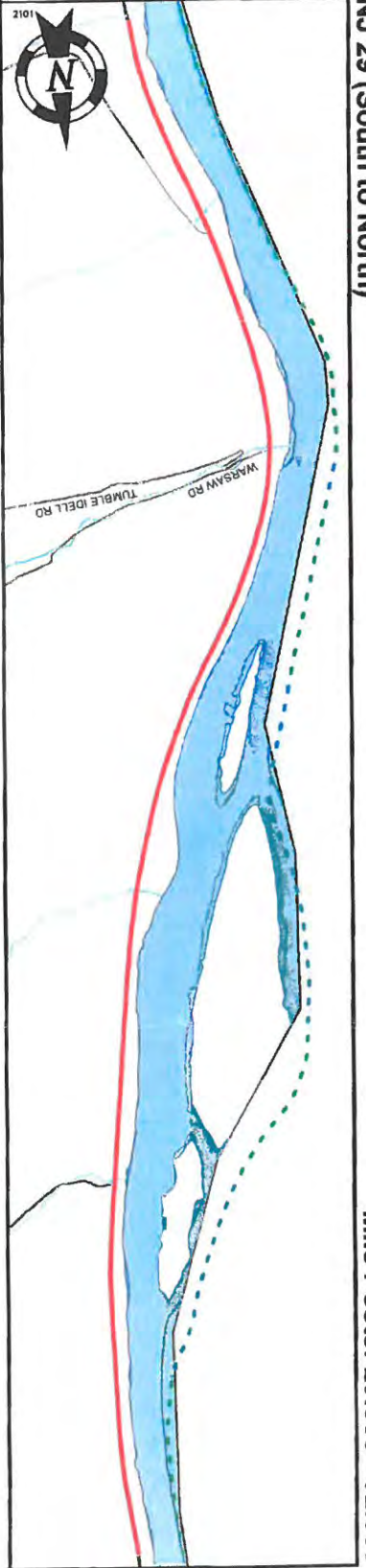
The New Jersey Department of Transportation (NJDOT) identified Route 29 from Milepost 27.4 to 30.45 as being in need of rockfall mitigation based on recent and historic rockfall events within the project limits. NJDOT is currently undertaking a Concept Development phase project to determine the methods of rockfall mitigation to be proposed for four design sections within the project limits. Potential improvements will include removal, reinforcement, and protection methods. Roadway improvements will be limited to pavement repair adjacent to any proposed concrete barrier.



Pavement		Shoulder		Number of Lanes		Speed Limit		Street Name	
Secondary Direction								Main Street	
Primary Direction								Daniel Bray Highway	
								Kingwood Twp, Hunterdon Co	
								N.J.D.O.T.	
								Rural Minor Arterial	
								STP	
								1,008	
								50	
								2	
								None	
								0	
								24	
								10	
Traffic Volume		2,430 (2007)		1,864 (2008)					
Traffic Sta. ID		54-308		54-308					
Structure No.		1009158		1009152		1009153		1009154	
Enlarged Views									

SRI = 00000029

Date last inventoried: April 2009



Interstate Route	287
US Route	22
NJ Route	21
County Road	689
Interchange Number	2
Grade Separated Interchange	2
Traffic Signal	None
Traffic Monitoring Sites	None
Road Underpass	None
Road Overpass	None
Street Name	Daniel Bray Highway
Jurisdiction	N.J.D.O.T.
Functional Class	Rural Minor Arterial
Federal Aid - NHS SY	STP
Control Section	1008
Speed Limit	50
Number of Lanes	2
Med. Type	None
Med. Width	0
Pavement	24
Shoulder	6
Traffic Volume	10
Traffic Sta. ID	1009158
Structure No.	1009159
Enlarged Views	1009150, 1009151

SRI = 00000029

Date last inventoried: April 2009



August 19, 2014

*Mr. Harvey Lockley
Jersey Central Power & Light
One River Centre
311 Newman Springs Road, Bldg 3
Red Bank, NJ 07701*

Re:

Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130

Project Designer:

HNTB Corporation
2 Aquarium Drive
Suite 310
Camden, NJ 08103
ATTN: Luis Gaitan
(856) 536-3342 Direct
(856) 831-5391 Mobile

Dear Mr. Lockley,

The New Jersey Department of Transportation (NJDOT) has engaged us to perform concept development work for a project known as Route 29 Rockfall Mitigation in Kingwood Township. The project includes the study of potential rockfall mitigation measures based on recent and historic rockfall events along Route 29. The location of the project is shown on the enclosed key sheet. A *Scope of Work* is also attached to give you a better understanding of the work that is proposed for this project. Based upon this *Scope of Work*, please provide the amount of Preliminary Engineering charges you may incur. The NJDOT will set up funding for these charges and will reimburse you through a *Change Order* if additional funding is necessary.

In accordance with NJDOT Utility and Railroad Engineering Procedures, our preliminary investigation disclosed **Jersey Central Power & Light** is franchised to operate within the proposed project limits and may have facilities affected by the State's proposed construction.

Should you have existing or proposed plant within the project limits, it is necessary for us to verify your facilities and enter into an engineering dialog with you. Please complete the following questionnaire and return it to the Designer's Engineer by September 2, 2014.

Page Three
Re: Route 29 Rockfall Mitigation
UPC #: 114130

The following companies are tenants on/in our facilities within the project limits:

Verizon

We would like the NJDOT to arrange for the following work to be done for our facilities should it be necessary for them to be relocated or modified.

Design/Engineering

Construction – Some or All? _____

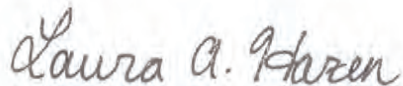
Neither – the Company will perform (or arrange to have performed) all needed work.

Not certain at this time.

Questions concerning this matter should be directed to the Design Engineer noted in the caption above or the NJDOT Utility Coordinator, Mr. Frank Pinto at (609) 530-2881.

Thank you for your cooperation in this matter.

Sincerely,



Laura Hazen, PE
Lead Engineer

Attachments

cc: Jim Conrey, Project Manager, NJDOT
Scott Burrowes, Project Manager, HNTB
Luis Gaitan, HNTB



Aqua New Jersey, Inc.
10 Black Forest Road
Hamilton, NJ 08691

T: 609.587.5406
F: 609.587.0689
www.aquanewjersey.com

Laura Hazen, P.E.
ATTN: Luis Gaitan
HNTB Corporation
2 Aquarium Drive, Suite 310
Camden, New Jersey 08103

August 26, 2014

**RE: Township of Robbinsville
FY' 2013 NJDOT Trust fund Hutchinson Road Improvements (Phase II)
Robbinsville, New Jersey**

Dear Mr. Gibson:

Please find the enclosed; please find the questionnaire for the above referenced project.
The scope of work if not within our franchise.

If you have any questions or require additional information, you can contact me at (609)
587-4080 x56519.

Sincerely,
AQUA NEW JERSEY, INC.

A handwritten signature in blue ink that reads "Lusting G. Wea".

Lusting G. Wea
Engineering Tech

cc file

Page Two
Re: Route 29 Rockfall Mitigation
UPC #: 114130

The Company Engineer to be contacted is:

Name James C. Barbato
Company Agua New Jersey
Title Regional Engineer
Address 10 Black Forest Road
Hamilton, NJ 08691

Tel: 609-587-4080 Ex 56520
Fax: 609-587-0689

The UTILITY AGREEMENT shall be sent to the following person:

Same as above or fill in below:

Name _____
Company _____
Title _____
Address _____

Tel: _____
Fax: _____

The amount of Preliminary Engineering funding needed will be \$ _____
(This amount is only an estimate)

We DO HAVE existing facilities within (or adjacent to) the project limits.

We DO NOT HAVE existing facilities within (or adjacent to) the project limits.

We HAVE PROPOSED facilities planned within (or adjacent to) the project limits.

Page Three
Re: Route 29 Rockfall Mitigation
UPC #: 114130

The following companies are tenants on/in our facilities within the project limits:

We would like the NJDOT to arrange for the following work to be done for our facilities should it be necessary for them to be relocated or modified.

Design/Engineering

Construction – Some or All? _____

Neither – the Company will perform (or arrange to have performed) all needed work.

Not certain at this time.

Questions concerning this matter should be directed to the Design Engineer noted in the caption above or the NJDOT Utility Coordinator, Mr. Frank Pinto at (609) 530-2881.

Thank you for your cooperation in this matter.

Sincerely,



Laura Hazen, PE
Lead Engineer

Attachments

cc: Jim Conrey, Project Manager, NJDOT
Scott Burrowes, Project Manager, HNTB
Luis Gaitan, HNTB



Elizabethtown Gas™

An *AGL Resources* Company

520 Green Lane
Union, NJ 07083

www.elizabethtowngas.com



August 25, 2014

Luis Gaitan
HNTB Corporation
2 Aquarium Drive Suite 310
Camden, NJ 08103

**Re: Route 29 Rockfall Mitigation
MP 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130**

Dear Mr. Gaitan:

Enclosed is the NJDOT questionnaire for the above referenced project. Please be advised that Elizabethtown Gas Company does not own or operate any facilities within this area of Kingwood Township.

Feel free to contact me if you have any questions.

Sincerely,
Elizabethtown Gas Company

John Eggolt
Associate Engineer
908-662-8319 office
jeggolt@aglresources.com

Enclosure

Page Three
Re: Route 29 Rockfall Mitigation
UPC #: 114130



The following companies are tenants on/in our facilities within the project limits:

We would like the NJDOT to arrange for the following work to be done for our facilities should it be necessary for them to be relocated or modified.

- Design/Engineering
- Construction – Some or All? *Work to be performed by Elizabethtown Gas certified contractor*
- Neither – the Company will perform (or arrange to have performed) all needed work.
- Not certain at this time.

Questions concerning this matter should be directed to the Design Engineer noted in the caption above or the NJDOT Utility Coordinator, Mr. Frank Pinto at (609) 530-2881.

Thank you for your cooperation in this matter.

Sincerely,

Laura A. Hazen

Laura Hazen, PE
Lead Engineer

Attachments

cc: Jim Conrey, Project Manager, NJDOT
Scott Burrowes, Project Manager, HNTB
Luis Gaitan, HNTB

Page Two
Re: Route 29 Rockfall Mitigation
UPC #: 114130



The Company Engineer to be contacted is:

Name Thomas B. Mathews, P.E.
Company Hunterdon County Engineer's Office
Title Director of Public Works
Address PO Box 2900
Flemington, New Jersey 08822

Tel: 908-788-1227
Fax: 908-788-1231

The UTILITY AGREEMENT shall be sent to the following person:

Same as above or fill in below:

Name _____
Company _____
Title _____
Address _____

Tel: _____
Fax: _____

The amount of Preliminary Engineering funding needed will be \$ _____
(This amount is only an estimate)

We DO HAVE existing facilities within (or adjacent to) the project limits.

We DO NOT HAVE existing facilities within (or adjacent to) the project limits.

We HAVE PROPOSED facilities planned within (or adjacent to) the project limits.

Page Three
Re: Route 29 Rockfall Mitigation
UPC #: 114130



The following companies are tenants on/in our facilities within the project limits:

We would like the NJDOT to arrange for the following work to be done for our facilities should it be necessary for them to be relocated or modified.

Design/Engineering

Construction – Some or All? _____

Neither – the Company will perform (or arrange to have performed) all needed work.

Not certain at this time.

Questions concerning this matter should be directed to the Design Engineer noted in the caption above or the NJDOT Utility Coordinator, Mr. Frank Pinto at (609) 530-2881.

Thank you for your cooperation in this matter.

Sincerely,

Laura A. Hazen

Laura Hazen, PE
Lead Engineer

Attachments

cc: Jim Conrey, Project Manager, NJDOT
Scott Burrowes, Project Manager, HNTB
Luis Gaitan, HNTB

From: [Penney, Jeffrey](#)
To: [Luis Gaitan](#)
Subject: RE: RT29 - Utility Inquiry
Date: Wednesday, October 01, 2014 3:02:20 PM

Luis

We have no facilities in the work area.

Thank You

From: Luis Gaitan [mailto:lgaitan@HNTB.com]
Sent: Monday, September 29, 2014 2:10 PM
To: Penney, Jeffrey
Subject: RT29 - Utility Inquiry

Jeffrey,

I'm inquiring about the job described in the attachment. Can you confirm if L3 has any communications with project limits?

Regards,

Luis C. Gaitan, E.I.T.
Transportation Engineer

■ **HNTB Corporation**
Camden Ferry Terminal Building
2 Aquarium Drive, Suite 310
Camden, NJ 08103
lgaitan@hntb.com

Tel (856) 536-3342 **Direct** (856) 831-5391

This e-mail and any files transmitted with it are confidential and are intended solely for the use of the individual or entity to whom they are addressed. If you are NOT the intended recipient and receive this communication, please delete this message and any attachments. Thank you.



09/04/2014

HNTB Corporation
2 Aquarium Drive
Suite 310
Camden, NJ 08103
ATTN: Luis Gaitan

Re: Route 29 Rockfall Mitigation
Milepost 27.4 – 30.45
Kingwood Twp.
Hunterdon County
UPC: 114130

Dear Mr. Gaitan,

Attached is the completed questionnaire for the above referenced location. Please feel free to contact me with any questions.

Sincerely,

A handwritten signature in black ink that reads "Brad Cole".

Brad Cole
Engineering Project Manager



August 19, 2014

Mr. Joseph Davignon
New Jersey American Water Company
120 Raider Boulevard
Hillsborough, NJ 08844

Re:

Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130

Project Designer:

HNTB Corporation
2 Aquarium Drive
Suite 310
Camden, NJ 08103
ATTN: Luis Gaitan
(856) 536-3342 Direct
(856) 831-5391 Mobile

Dear Mr. Davignon,

The New Jersey Department of Transportation (NJDOT) has engaged us to perform concept development work for a project known as Route 29 Rockfall Mitigation in Kingwood Township. The project includes the study of potential rockfall mitigation measures based on recent and historic rockfall events along Route 29. The location of the project is shown on the enclosed key sheet. A *Scope of Work* is also attached to give you a better understanding of the work that is proposed for this project. Based upon this *Scope of Work*, please provide the amount of Preliminary Engineering charges you may incur. The NJDOT will set up funding for these charges and will reimburse you through a *Change Order* if additional funding is necessary.

In accordance with NJDOT Utility and Railroad Engineering Procedures, our preliminary investigation disclosed **New Jersey American Water Company** is franchised to operate within the proposed project limits and may have facilities affected by the State's proposed construction.

Should you have existing or proposed plant within the project limits, it is necessary for us to verify your facilities and enter into an engineering dialog with you. Please complete the following questionnaire and return it to the Designer's Engineer by September 2, 2014.

Page Two
Re: Route 29 Rockfall Mitigation
UPC #: 114130



The Company Engineer to be contacted is:

Name BRADLEY COLE
Company NJ AMERICAN WATER CO.
Title PROJECT MGR / ENGR
Address 1025 LAUREL OAK RD
VOORHEES, NJ 08043

Tel: (856) 782 2379
Fax: _____

The UTILITY AGREEMENT shall be sent to the following person:

Same as above or fill in below:

Name _____
Company _____
Title _____
Address _____

Tel: _____
Fax: _____

The amount of Preliminary Engineering funding needed will be \$ _____
(This amount is only an estimate)

We DO HAVE existing facilities within (or adjacent to) the project limits.

We DO NOT HAVE existing facilities within (or adjacent to) the project limits.

We HAVE PROPOSED facilities planned within (or adjacent to) the project limits.

Page Three
Re: Route 29 Rockfall Mitigation
UPC #: 114130



The following companies are tenants on/in our facilities within the project limits:

We would like the NJDOT to arrange for the following work to be done for our facilities should it be necessary for them to be relocated or modified.

- Design/Engineering
- Construction – Some or All? _____
- Neither – the Company will perform (or arrange to have performed) all needed work.
- Not certain at this time.

Questions concerning this matter should be directed to the Design Engineer noted in the caption above or the NJDOT Utility Coordinator, Mr. Frank Pinto at (609) 530-2881.

Thank you for your cooperation in this matter.

Sincerely,

A handwritten signature in cursive script that reads "Laura A. Hazen".

Laura Hazen, PE
Lead Engineer

Attachments

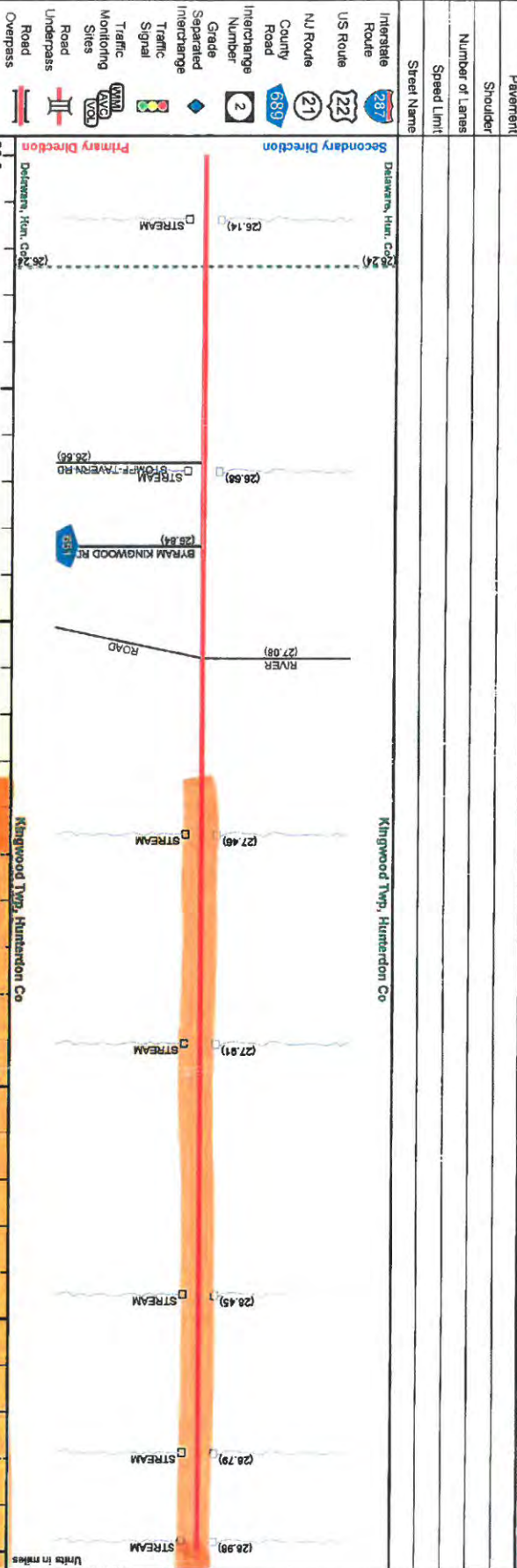
cc: Jim Conrey, Project Manager, NJDOT
Scott Burrowes, Project Manager, HNTB
Luis Gaitan, HNTB

Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township, Hunterdon County

CONCEPT DEVELOPMENT (CD)



The New Jersey Department of Transportation (NJDOT) identified Route 29 from Milepost 27.4 to 30.45 as being in need of rockfall mitigation based on recent and historic rockfall events within the project limits. NJDOT is currently undertaking a Concept Development phase project to determine the methods of rockfall mitigation to be proposed for four design sections within the project limits. Potential improvements will include removal, reinforcement, and protection methods. Roadway improvements will be limited to pavement repair adjacent to any proposed concrete barrier.



Street Name: Main Street
 Jurisdiction: N.J.D.O.T.
 Daniel Bray Highway

Functional Class: Rural Minor Arterial
 Federal Aid - NHS Sy: STP
 Control Section: 1008

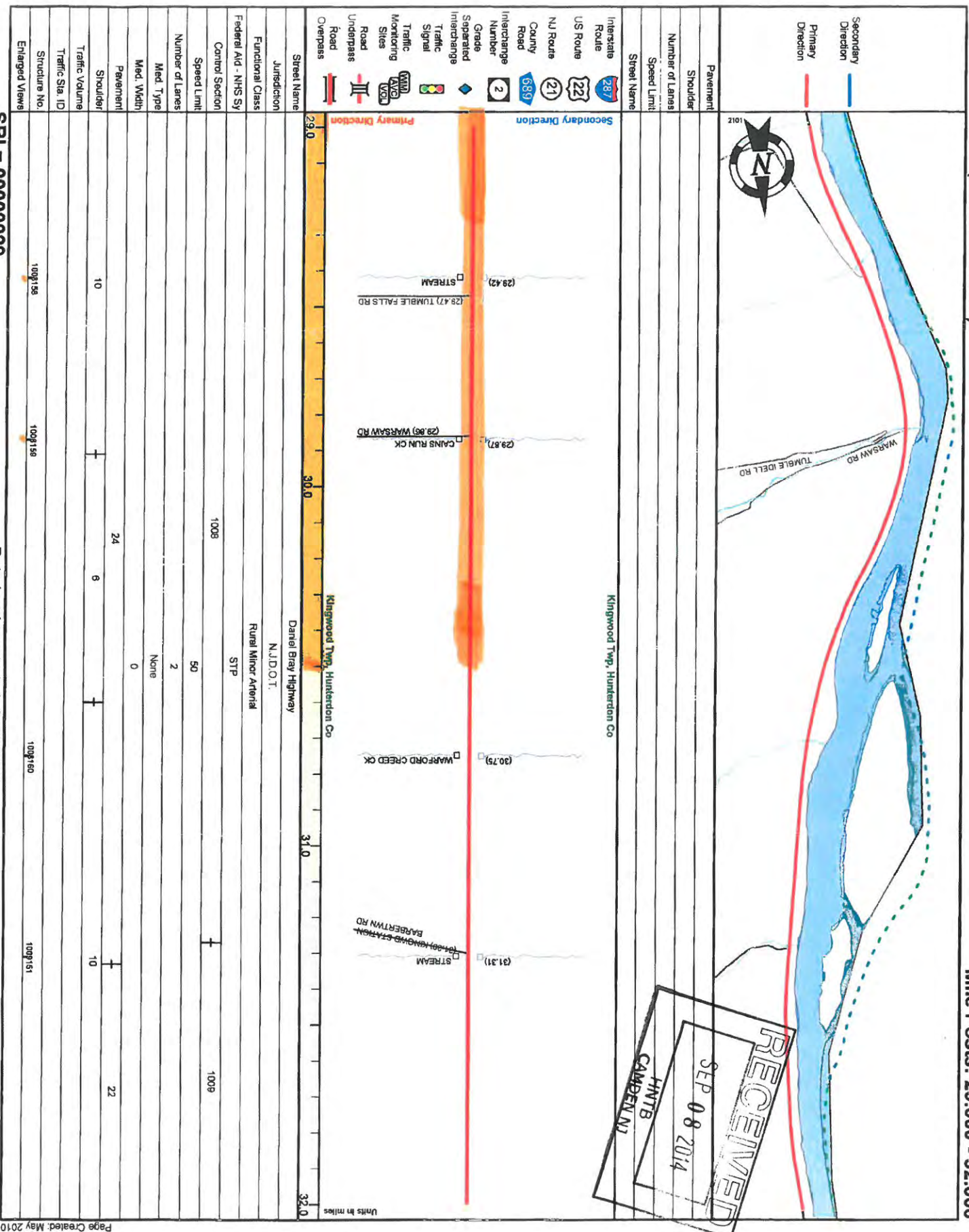
Speed Limit	50
Number of Lanes	2
Med. Type	None
Med. Width	0
Pavement	24
Shoulder	10
Traffic Volume	1,864 (2008)
Traffic Sta. ID	5-4-308

Structure No.	1009161	1009152	1009153	1009154	1009155	1009156	1009157
Enlarged Views							

SRI = 00000029
 Date last inventoried: April 2009

NJ 29 (South to North)

Mile Posts: 29.000 - 32.000



RECEIVED
 SEP 08 2014
 HNTB
 CAMDEN NJ

Interstate Route	287
US Route	22
NJ Route	21
County Road	689
Interchange Number	2
Grade	
Separated Interchange	
Traffic Signal	
Traffic Monitoring Sites	
Road Underpass	
Road Overpass	

Street Name	Daniel Bray Highway
Jurisdiction	N.J.D.O.T.
Functional Class	Rural Minor Arterial
Federal Aid - NMS Sy	STP
Control Section	1008
Speed Limit	50
Number of Lanes	2
Med. Type	Name
Med. Width	0
Pavement	
Shoulder	24
Traffic Volume	6
Traffic Sta. ID	10
Structure No.	
Enlarged Views	

SRI = 00000029

Date last inventoried: April 2009


From: [Kong John](#)
To: [Luis Gaitan](#)
Subject: Rt 29 kingswood Township
Date: Friday, August 22, 2014 2:04:10 PM
Attachments: [Picture \(Device Independent Bitmap\) 1.jpg](#)
[Picture \(Device Independent Bitmap\) 2.jpg](#)

Luis,

Please stop sending me this project. I keep filling this out and it keeps on coming back. NJNG does not have any facilities nor is it our territory. Please contact PSE&G or Atlanta Gas Light.

John G. Kong
Sr. Project Mgr
New Jersey Natural Gas Co.
1415 Wyckoff Rd.
Wall, NJ, 07719
w.732-938-1281
c. 732-684-5221
jgkong@njng.com



 Please consider the environment before printing this email and any attachments –
Conserve to Preserve®.

Privileged and Confidential Subject to the Attorney Client Privilege, the Attorney Work Product Doctrine and all other Applicable Privileges and Doctrines.



August 27, 2014

Ms. Laura Hazen, P.E.
Lead Engineer
HNTB Corporation
Camden Ferry Terminal Building
2 Aquarium Drive, Suite 310
Camden, NJ 08103

**RE: Route 29 Rockfall Mitigation
Milepost 27.40 to 30.45
Township of Kingwood, Hunterdon County
UPC No.: 114130**

Dear Ms. Hazen:

I have received your letter and the milepost maps relative to the above referenced project. Please be advised, the project scope is outside our franchise territory and therefore we do not have any gas facilities within the project limits.

Should you have any questions or concerns, please feel free to contact me directly at the above address, by phone at (908) 412-2228, or via e-mail at len.pannucci@pseg.com.

Sincerely,

A handwritten signature in black ink, appearing to read "L.A. Pannucci", written in a cursive style.

L.A. Pannucci, PMP
Program Manager-3rd Party Relocation
Delivery Projects & Construction

enclosure
c: File

The Company Engineer to be contacted is:

Name SEE ATTACHED LETTER
Company _____
Title _____
Address _____

Tel: _____
Fax: _____

The UTILITY AGREEMENT shall be sent to the following person:

Same as above or fill in below:

Name _____
Company _____
Title _____
Address _____

Tel: _____
Fax: _____

The amount of Preliminary Engineering funding needed will be \$ 0
(This amount is only an estimate)

We DO HAVE existing facilities within (or adjacent to) the project limits.

We DO NOT HAVE existing facilities within (or adjacent to) the project limits.

We HAVE PROPOSED facilities planned within (or adjacent to) the project limits.

The following companies are tenants on/in our facilities within the project limits:

We would like the NJDOT to arrange for the following work to be done for our facilities should it be necessary for them to be relocated or modified.

Design/Engineering

Construction – Some or All? _____

Neither – the Company will perform (or arrange to have performed) all needed work.

Not certain at this time.

Questions concerning this matter should be directed to the Design Engineer noted in the caption above or the NJDOT Utility Coordinator, Mr. Frank Pinto at (609) 530-2881.

Thank you for your cooperation in this matter.

Sincerely,

Laura A. Hazen

Laura Hazen, PE
Lead Engineer

Attachments

cc: Jim Conrey, Project Manager, NJDOT
Scott Burrowes, Project Manager, HNTB
Luis Gaitan, HNTB



HNTB

August 19, 2014

Mr. Darryl Reccek
Service Electric Cable
2260 Avenue A
Bethlehem, PA 18017

Re:
Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130

Project Designer:
HNTB Corporation
2 Aquarium Drive
Suite 310
Camden, NJ 08103
ATTN: Luis Gaitan
(856) 536-3342 Direct
(856) 831-5391 Mobile

Dear Mr. Reccek,

The New Jersey Department of Transportation (NJDOT) has engaged us to perform concept development work for a project known as Route 29 Rockfall Mitigation in Kingwood Township. The project includes the study of potential rockfall mitigation measures based on recent and historic rockfall events along Route 29. The location of the project is shown on the enclosed key sheet. A *Scope of Work* is also attached to give you a better understanding of the work that is proposed for this project. Based upon this *Scope of Work*, please provide the amount of Preliminary Engineering charges you may incur. The NJDOT will set up funding for these charges and will reimburse you through a *Change Order* if additional funding is necessary.

In accordance with NJDOT Utility and Railroad Engineering Procedures, our preliminary investigation disclosed **Service Electric Cable** is franchised to operate within the proposed project limits and may have facilities affected by the State's proposed construction.

Should you have existing or proposed plant within the project limits, it is necessary for us to verify your facilities and enter into an engineering dialog with you. Please complete the following questionnaire and return it to the Designer's Engineer by September 2, 2014.

Please see page 2
revision. Thank You

Page Two
Re: Route 29 Rockfall Mitigation
UPC #: 114130

The Company Engineer to be contacted is:

Name Darryl Reccek
Company Service Electric Cable TV of Hunterdon
Title Construction Mgr.
Address 2260 Avenue A
Bethlehem, PA 18017

Tel: 610-865-9100
Fax: 610-865-0633

The UTILITY AGREEMENT shall be sent to the following person:

Same as above or fill in below:

Name _____
Company _____
Title _____
Address _____

Tel: _____
Fax: _____

The amount of Preliminary Engineering funding needed will be \$ _____
(This amount is only an estimate)

We DO HAVE existing facilities within (or adjacent to) the project limits.

We DO NOT HAVE existing facilities within (or adjacent to) the project limits.

We HAVE PROPOSED facilities planned within (or adjacent to) the project limits.

*revised

Page Three
Re: Route 29 Rockfall Mitigation
UPC #: 114130

The following companies are tenants on/in our facilities within the project limits:

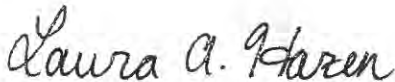
We would like the NJDOT to arrange for the following work to be done for our facilities should it be necessary for them to be relocated or modified.

- Design/Engineering
- Construction – Some or All? _____
- Neither – the Company will perform (or arrange to have performed) all needed work.
- Not certain at this time.

Questions concerning this matter should be directed to the Design Engineer noted in the caption above or the NJDOT Utility Coordinator, Mr. Frank Pinto at (609) 530-2881.

Thank you for your cooperation in this matter.

Sincerely,



Laura Hazen, PE
Lead Engineer

Attachments

cc: Jim Conrey, Project Manager, NJDOT
Scott Burrowes, Project Manager, HNTB
Luis Gaitan, HNTB

UNITED WATER

Timothy Chou, E.I.T.
Associate Engineer
60 DeVoe Place
Hackensack, NJ 07601
TEL 201.457.7990
TIMOTHY.CHOU@UNITEDWATER.COM



August 22, 2014

HNTB Corporation
Camden Ferry Terminal Building
2 Aquarium Drive, Suite 310
Camden, NJ 08103

Subject: Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130

ATTN: Luis Gaitan

Dear Mr. Gaitan,

There are no United Water New Jersey assets in your project area.

Should you have any questions, please do not hesitate to call.

Regards,

A handwritten signature in black ink, appearing to be 'T. Chou'.

Timothy Chou, E.I.T.
Engineering Associate

RECEIVED AUG 28 2014


HNTB

August 19, 2014

Mr. Frank McGlynn
United Water
60 Devoe Plaza
Hackensack, NJ 07601

Re:

Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130

Project Designer:

HNTB Corporation
2 Aquarium Drive
Suite 310
Camden, NJ 08103
ATTN: Luis Gaitan
(856) 536-3342 Direct
(856) 831-5391 Mobile

Dear Mr. McGlynn,

The New Jersey Department of Transportation (NJDOT) has engaged us to perform concept development work for a project known as Route 29 Rockfall Mitigation in Kingwood Township. The project includes the study of potential rockfall mitigation measures based on recent and historic rockfall events along Route 29. The location of the project is shown on the enclosed key sheet. A *Scope of Work* is also attached to give you a better understanding of the work that is proposed for this project. Based upon this *Scope of Work*, please provide the amount of Preliminary Engineering charges you may incur. The NJDOT will set up funding for these charges and will reimburse you through a *Change Order* if additional funding is necessary.

In accordance with NJDOT Utility and Railroad Engineering Procedures, our preliminary investigation disclosed **United Water** is franchised to operate within the proposed project limits and may have facilities affected by the State's proposed construction.

Should you have existing or proposed plant within the project limits, it is necessary for us to verify your facilities and enter into an engineering dialog with you. Please complete the following questionnaire and return it to the Designer's Engineer by September 2, 2014.

The Company Engineer to be contacted is:

Name DOUG REGER, P.E.
Company UNITED WATER NJ
Title MANAGER NETWORK ENGINEERING / HYDRAULIC MODELING / NEW BUSINESS ONLY.
Address 60 DEVOE PLACE
HACKENSACK NJ 07601

Tel: 201 457 7964
Fax: _____

The UTILITY AGREEMENT shall be sent to the following person:

Same as above or fill in below:

Name _____
Company _____
Title _____
Address _____

Tel: _____
Fax: _____

The amount of Preliminary Engineering funding needed will be \$ _____
(This amount is only an estimate)

We DO HAVE existing facilities within (or adjacent to) the project limits.

We DO NOT HAVE existing facilities within (or adjacent to) the project limits.

We HAVE PROPOSED facilities planned within (or adjacent to) the project limits.

NOT UWNJ
TERRITORY
APPEARS TO BE NJ
AMERICAN TERRITORY

Page Three
Re: Route 29 Rockfall Mitigation
UPC #: 114130

The following companies are tenants on/in our facilities within the project limits:

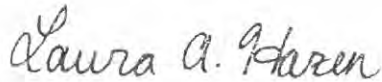
We would like the NJDOT to arrange for the following work to be done for our facilities should it be necessary for them to be relocated or modified.

- Design/Engineering
- Construction – Some or All? _____
- Neither – the Company will perform (or arrange to have performed) all needed work.
- Not certain at this time.

Questions concerning this matter should be directed to the Design Engineer noted in the caption above or the NJDOT Utility Coordinator, Mr. Frank Pinto at (609) 530-2881.

Thank you for your cooperation in this matter.

Sincerely,



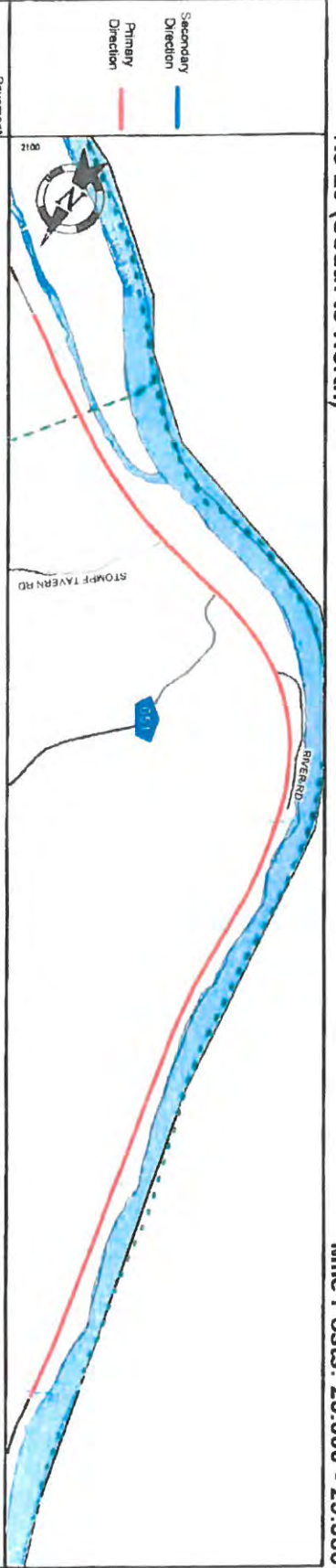
Laura Hazen, PE
Lead Engineer

Attachments

cc: Jim Conrey, Project Manager, NJDOT
Scott Burrowes, Project Manager, HNTB
Luis Gaitan, HNTB

NJ 29 (South to North)

Mile Posts: 26.000 - 29.000



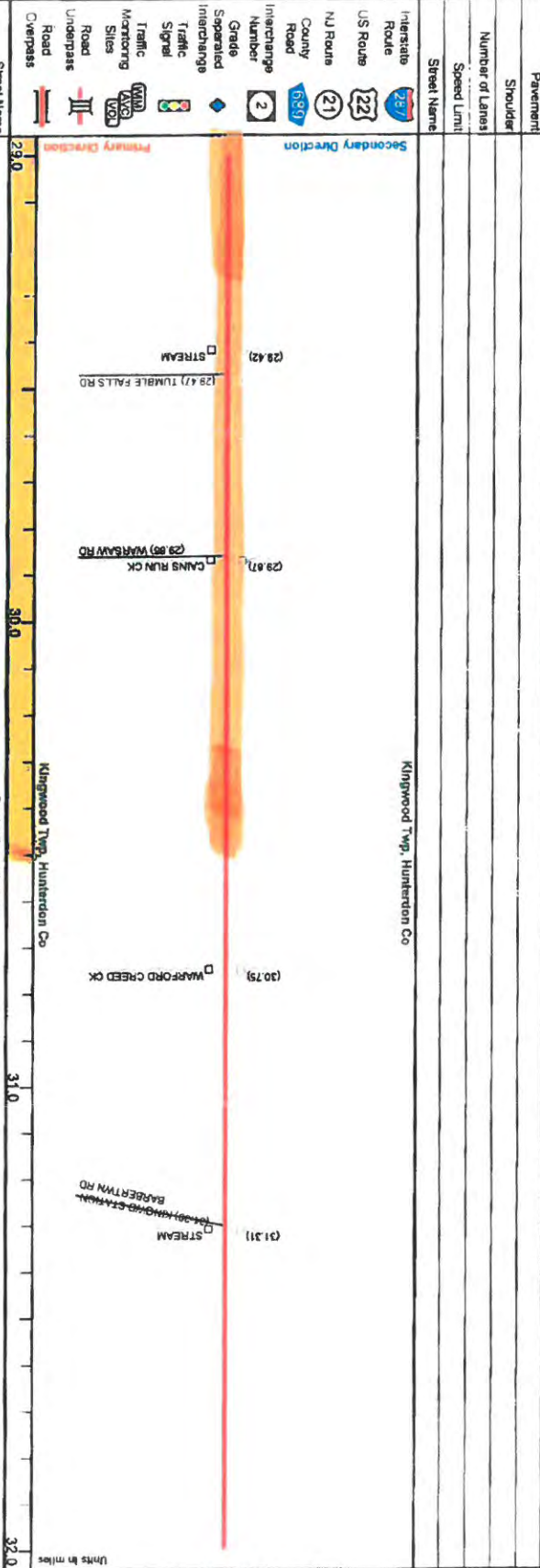
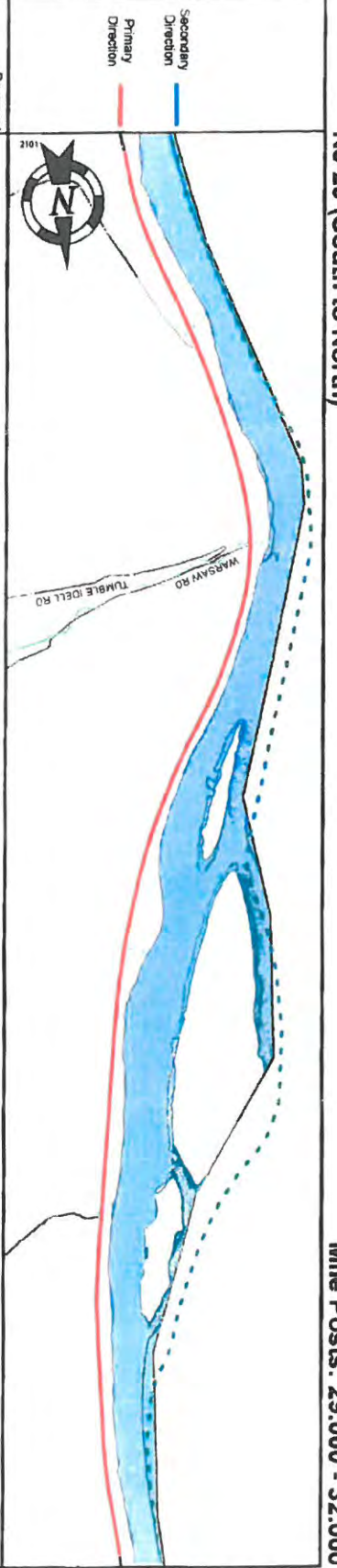
Interstate Route	29
US Route	22
NJ Route	21
County Road	889
Influence Number	2
Grade	Separated Interchange
Traffic Signal	Traffic Signal
Traffic Monitoring Sides	Traffic Monitoring Sides
Road Underpass	Road Underpass
Road Overpass	Road Overpass
Street Name	Main Street
Jurisdiction	N.J.D.O.T.
Functional Class	Rural Minor Arterial
Federal Aid - NHS SY	STP
Control Section	1008
Speed Limit	50
Number of Lanes	2
Med Type	None
Med Width	0
Shoulder	24
Traffic Volume	1,864,000
Traffic SIA ID	5-4-306
Structure No.	100118
Enlarged Views	100152 100154 100155 100156 100157

SRI = 00000029

Date last inventoried: April 2009

NJ 29 (South to North)

Mile Posts: 29.000 - 32.000



Interstate Route	287
US Route	222
NJ Route	21
County Road	6389
Interchange Number	2
Grade Separated Interchange	Yes
Traffic Signal	No
Traffic Monitoring Sides	None
Road Underpass	No
Road Overpass	No
Street Name	Kilguswood Hwy, Daniel Bay Highway
Jurisdiction	N.J.D.O.T.
Functional Class	Rural Minor Arterial
Federal Aid - NHSS Sy	STP
Control Section	1008
Speed Limit	50
Number of Lanes	2
Med. Type	None
Med. Width	0
Pavement	10
Shoulder	24
Traffic Volume	8
Traffic Sta. ID	10
Structure No.	100150
Enlarged Views	100150

SRI = 00000029

Date last inventoried: April 2009

Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township, Hunterdon County

CONCEPT DEVELOPMENT (CD)

The New Jersey Department of Transportation (NJDOT) identified Route 29 from Milepost 27.4 to 30.45 as being in need of rockfall mitigation based on recent and historic rockfall events within the project limits. NJDOT is currently undertaking a Concept Development phase project to determine the methods of rockfall mitigation to be proposed for four design sections within the project limits. Potential improvements will include removal, reinforcement, and protection methods. Roadway improvements will be limited to pavement repair adjacent to any proposed concrete barrier.



August 19, 2014

Mr. Frank Antisell
Manager
Verizon
6000 Hadley Avenue
South Plainfield, NJ 07080

Re:

Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130

Project Designer:

HNTB Corporation
2 Aquarium Drive
Suite 310
Camden, NJ 08103
ATTN: Luis Gaitan
(856) 536-3342 Direct
(856) 831-5391 Mobile

Dear Mr. Antisell,

The New Jersey Department of Transportation (NJDOT) has engaged us to perform concept development work for a project known as Route 29 Rockfall Mitigation in Kingwood Township. The project includes the study of potential rockfall mitigation measures based on recent and historic rockfall events along Route 29. The location of the project is shown on the enclosed key sheet. A *Scope of Work* is also attached to give you a better understanding of the work that is proposed for this project. Based upon this *Scope of Work*, please provide the amount of Preliminary Engineering charges you may incur. The NJDOT will set up funding for these charges and will reimburse you through a *Change Order* if additional funding is necessary.

In accordance with NJDOT Utility and Railroad Engineering Procedures, our preliminary investigation disclosed **Verizon** is franchised to operate within the proposed project limits and may have facilities affected by the State's proposed construction.

Should you have existing or proposed plant within the project limits, it is necessary for us to verify your facilities and enter into an engineering dialog with you. Please complete the following questionnaire and return it to the Designer's Engineer by September 2, 2014.

Page Two

Re: Route 29 Rockfall Mitigation

UPC #: 114130

The Company Engineer to be contacted is:

Name	Thomas Grabowski
Company	Verizon-NJ, Inc.
Title	Engineer – Centralized Engineering Services
Address	6000 Hadley Rd.
	South Plainfield, NJ 07080
	908-412-6169
	thomas.j.grabowski@verizon.com
Tel:	
Fax:	

The UTILITY AGREEMENT shall be sent to the following person:

Same as above or fill in below:

Name	
Company	Frank Antisell
Title	Verizon-NJ, Inc.
Address	Manager – Centralized Engineering Services
	6000 Hadley Rd.
	South Plainfield, NJ 07080
Tel:	
Fax:	

The amount of Preliminary Engineering funding needed will be \$ _____
(This amount is only an estimate)

We DO HAVE existing facilities within (or adjacent to) the project limits.

We DO NOT HAVE existing facilities within (or adjacent to) the project limits.

We HAVE PROPOSED facilities planned within (or adjacent to) the project limits.

Page Three
Re: Route 29 Rockfall Mitigation
UPC #: 114130

The following companies are tenants on/in our facilities within the project limits:

We would like the NJDOT to arrange for the following work to be done for our facilities should it be necessary for them to be relocated or modified.

Design/Engineering

Construction – Some or All? _____

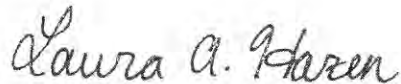
Neither – the Company will perform (or arrange to have performed) all needed work.

Not certain at this time.

Questions concerning this matter should be directed to the Design Engineer noted in the caption above or the NJDOT Utility Coordinator, Mr. Frank Pinto at (609) 530-2881.

Thank you for your cooperation in this matter.

Sincerely,



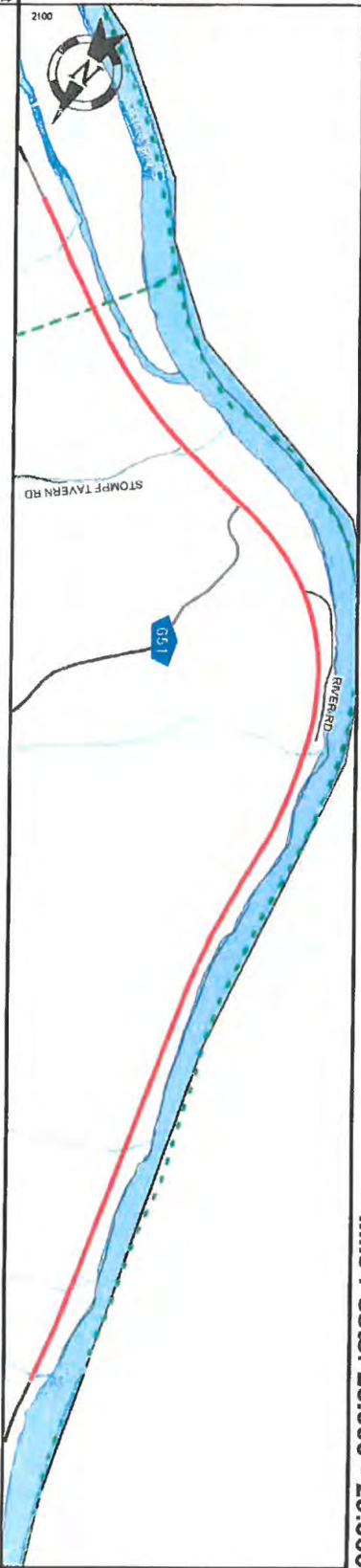
Laura Hazen, PE
Lead Engineer

Attachments

cc: Jim Conrey, Project Manager, NJDOT
Scott Burrowes, Project Manager, HNTB
Luis Gaitan, HNTB

NJ 29 (South to North)

Mile Posts: 26.000 - 29.000



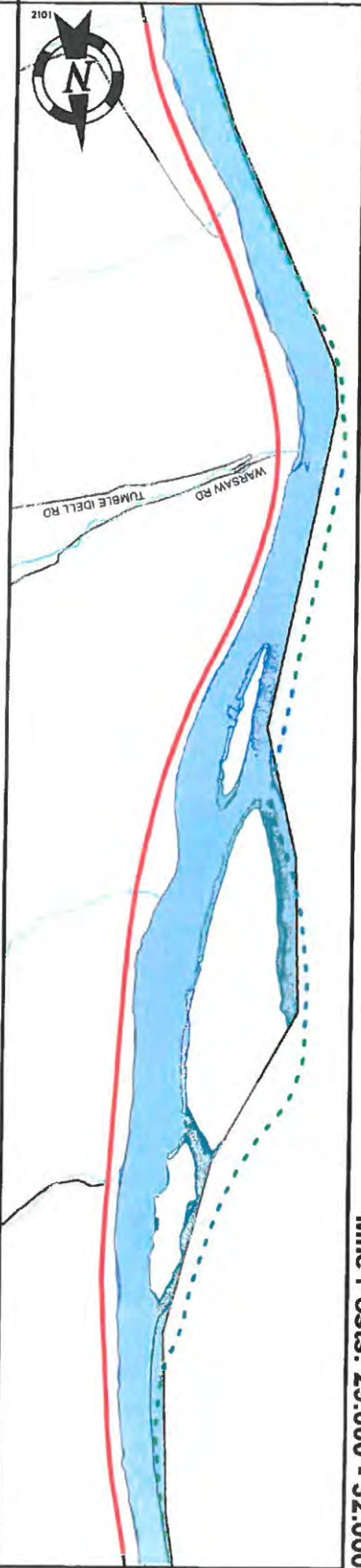
Pavement Shoulder Number of Lanes Speed Limit Street Name Interstate Route US Route NJ Route County Road Interchange Number Grade Separated Interchange Traffic Signal Traffic Monitoring Sites Road Underpass Road Overpass		Delaware, Hunt. Co. Rd 26.0 Main Street 26.0 27.0 28.0 29.0 Units in miles	
Jurisdiction Functional Class Federal Aid - NHS Sy Control Section Speed Limit Number of Lanes Med Type Med Width Pavement Shoulder Traffic Volume Traffic Sta. ID Structure No. Enlarged Views		Kingwood Twp, Hunterdon Co Rural Minor Arterial STP 1008 50 2 0 24 10 1,240 (2007) 1-4-308 100g168 100g152 100g153 100g154 100g155 100g156 100g157	
Daniel Bray Highway N.J.D.O.T. Rural Minor Arterial STP 1008 50 2 0 24 10 1,884 (2008) 5-4-308 100g158 100g159 100g160 100g161 100g162 100g163		Kingwood Twp, Hunterdon Co Rural Minor Arterial STP 1008 50 2 0 24 10 1,884 (2008) 5-4-308 100g152 100g153 100g154 100g155 100g156 100g157	

SRI = 00000029

Date last inventoried: April 2009

NJ 29 (South to North)

Mile Posts: 29.000 - 32.000



Interstate Route	287
US Route	22
NJ Route	21
County Road	6889
Interchange Number	2
Grade	None
Separated Interchanges	None
Traffic Signal	None
Traffic Monitoring Sites	None
Road Underpass	None
Road Overpass	None

Street Name	Daniel Bray Highway
Jurisdiction	N.J.D.O.T.
Functional Class	Rural Minor Arterial
Federal Aid - NHS/SY	STP
Control Section	1008
Speed Limit	50
Number of Lanes	2
Med. Type	None
Med. Width	0
Pavement	24
Shoulder	8
Traffic Volume	10
Traffic Sta. ID	1009159
Structure No.	1009158
Enlarged Views	1009159, 1009158, 1009160, 1009161

SRI = 00000029

Date last inventoried: April 2009

Route 29 Rockfall Mitigation
Milepost 27.4 to 30.45
Kingwood Township, Hunterdon County

CONCEPT DEVELOPMENT (CD)

The New Jersey Department of Transportation (NJDOT) identified Route 29 from Milepost 27.4 to 30.45 as being in need of rockfall mitigation based on recent and historic rockfall events within the project limits. NJDOT is currently undertaking a Concept Development phase project to determine the methods of rockfall mitigation to be proposed for four design sections within the project limits. Potential improvements will include removal, reinforcement, and protection methods. Roadway improvements will be limited to pavement repair adjacent to any proposed concrete barrier.



Gas Pipeline - Transco
99 Farber Road
Princeton, NJ 08540
(609) 936-2400
Fax: (609) 936-2430

FILE COPY

September 2, 2014

HNTB Corporation
2 Aquarium Drive
Suite 310
Camden, NJ 08103
(856) 536-3342
ATTN: Luis Gaitan

**RE: Route 29 Rockfall Mitigation
Mileposts 27.4 to 30.45
Kingwood Township
Hunterdon County, NJ
UPC # 114130**

Dear Mr. Gaitan:

I have reviewed your letter (dated 8/19/14) for the referenced project. Upon review it has been determined that Williams does not own or operate any facilities within your project limits.

Sincerely,

A handwritten signature in black ink, appearing to read "Steven Yaruta".

Steven Yaruta
Division Engineer
Princeton Division Office
(609) 936-2423

The Company Engineer to be contacted is:

Name STEVE YACUTA
Company WILLIAMS
Title ENGINEER
Address 99 FARRER RD.
PRINCETON, N.J. 08540

Tel: _____
Fax: _____

The UTILITY AGREEMENT shall be sent to the following person:

Same as above or fill in below:

Name _____
Company _____
Title _____
Address _____

Tel: _____
Fax: _____

The amount of Preliminary Engineering funding needed will be \$ _____
(This amount is only an estimate)

We DO HAVE existing facilities within (or adjacent to) the project limits.

We DO NOT HAVE existing facilities within (or adjacent to) the project limits.

We HAVE PROPOSED facilities planned within (or adjacent to) the project limits.

Page Three
Re: Route 29 Rockfall Mitigation
UPC #: 114130

The following companies are tenants on/in our facilities within the project limits:

We would like the NJDOT to arrange for the following work to be done for our facilities should it be necessary for them to be relocated or modified.

Design/Engineering

Construction – Some or All? _____

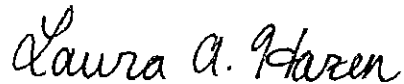
Neither – the Company will perform (or arrange to have performed) all needed work.

Not certain at this time.

Questions concerning this matter should be directed to the Design Engineer noted in the caption above or the NJDOT Utility Coordinator, Mr. Frank Pinto at (609) 530-2881.

Thank you for your cooperation in this matter.

Sincerely,



Laura Hazen, PE
Lead Engineer

Attachments

cc: Jim Conrey, Project Manager, NJDOT
Scott Burrowes, Project Manager, HNTB
Luis Gaitan, HNTB

From: [James Jacobsen](#)
To: [Luis Gaitan](#)
Subject: Rt 29 Rockfall Mitigation MP 24.7 to 30.45
Date: Friday, September 05, 2014 12:23:15 PM
Attachments: [image001.jpg](#)

Luis,

This email is to inform you that Zayo does not have facilities within the abovementioned project limits.

Thank you,

Jim Jacobsen

OSP Project Manager
Zayo Group
1101 E. Linden Ave
Linden, NJ 07036
O: 212-803-5031
C: 973-214-6393
James.Jacobsen@zayo.com

Zayo



From: Luis Gaitan [mailto:lgaitan@HNTB.com]
Sent: Thursday, September 04, 2014 2:39 PM
To: 'James Jacobsen'
Cc: Richard Kiker; Dylan DeVito
Subject: RE: Jersey City - New Road

Jim,

Attached is the latest aerial. Letter to come separately.

Regards,

Luis C. Gaitan, E.I.T.
Transportation Engineer

■ **HNTB Corporation**
Camden Ferry Terminal Building
2 Aquarium Drive, Suite 310
Camden, NJ 08103
lgaitan@hntb.com

Tel (856) 536-3342 Direct (856) 831-5391

This e-mail and any files transmitted with it are confidential and are intended solely for the use of the individual or entity to whom they are addressed. If you are NOT the intended recipient and receive this communication, please delete this message and any attachments. Thank you.

Appendix K

SME Correspondence

The Rockfall Hazard Mitigation Report also prepared during Concept Development can be found on the CD provided with this report.

Data	Source	Date
Rockfall Hazard Mitigation Report Route 29 Rockfall Mitigation, Milepost 27.31 to 30.43 Township of Kingwood, Hunterdon County	HNTB	April 24, 2015

From: [Henry, Kevin](#)
To: [Laura Hazen](#)
Cc: [Conrey, Jim](#)
Subject: FW: Fwd: Route 29 S of Alexauken Creek Rd to Washington Street Pavement UPC # 114130 Request for Data Management Systems
Date: Friday, November 21, 2014 10:30:43 AM
Attachments: [Reply Rt.29 MP 19.8-34.3 Apr13.DOCX](#)
[Rt.29 MP19.8-34.3 Flood Apr13.XLS](#)
[Rt.29 MP 19.8-34.3 Icing Apr13.XLS](#)
[Rt.29 MP 19.8-34.3 Maint Crew Expe Apr13.XLS](#)

Hello Laura,

I'm going thru my e-mail this response is from DMS for Rt 29.

From: RajendraR Patel [mailto:RajendraR.Patel@dot.state.nj.us]
Sent: Wednesday, April 17, 2013 1:40 PM
To: Henry, Kevin
Cc: Kiong Chan
Subject: Re: Fwd: Route 29 S of Alexauken Creek Rd to Washington Street Pavement UPC # 114130 Request for Data Management Systems

Hi,

Attached is Drainage Management Unit's response to your request of April 11, 2013 for the above project.

Thanks,

Raj Patel
Drainage Management Unit

>>> Kiong Chan 4/16/2013 8:45 AM >>>
Raj - Please respond

>>> Kevin Henry 4/11/2013 11:49 AM >>>
Please see attached request.

NEW JERSEY DEPARTMENT OF TRANSPORTATION

MEMORANDUM

TO: Kevin Henry
Group B
Division of Project Management (North)

FROM: Raj Patel
Drainage Unit
Division of Design Services

DATE: April 17, 2013

PHONE: 609-530- 2198

SUBJECT: **Project Area Data Request-Shotgun Letter**

Route 29 South of Alexauken Creek Rd. to Washington St. Pavement
MP 19.8-34.3

Lambertville City, Delaware Twp. Kingwood Twp., Hunterdon County

Status: Concept Development Study

In response to your letter dated April 11, 2013, Route 29 MP 24.0 - 24.01 has ranking of 230 in Drainage Management Unit's DMS Ranking List. Flooding, Maintenance Crew Expenditure and Icing records for project limit are attached.

CC: Manager, K. Chan, file

Date_Of_Incident	County	Municipality	Route	Direction	MilePoint	Limits	Lanes_Affected	Description	Notes	Incident_Complete	Weekend
10/14/2010	HUNTERDON	DELAWARE TWP.	29	N	21.6	Brook Hollow Rd		Clogged Storm Drain/Flooding	NOTHING BLOCKED - DRAINS CLOGGED.. 314 will respond per 35 js 1743 draining slow cleared basin top	TRUE	FALSE
8/28/2011	HUNTERDON	DELAWARE TWP.	29	N&S	21.68	BROOK HOLLOW RD.	All	Flooding	REOC OPEN :::: STMC ADVISED	TRUE	FALSE
2/26/2013	HUNTERDON	STOCKTON BORO	29	N	21.68	brookville hollow rd		Clogged Storm Drain/Flooding	Clogged drian clogged and someone pt a cone on it. Flooding occurs during a rain fall.// after speaking with 330 they are aware of issue which is why the cone was placed, 330 said he had given it to 369 to either fix or contract it out. I called the citizen back to explain and gave her Central Reg number for and update. (ss-2/26/13)	TRUE	FALSE
9/23/2011	HUNTERDON	STOCKTON BORO	29	S	22.32	church	Right	Flooding	the water from rt29 is flooding in her basement , she has call us before and talk to all supervisors. 3301 will handle it***330 Marty checked- no flooding and basins are clear* I gave him the citizens name and number* will call her back and adv. CDU*ts330 talk to nancy smelled alcohol on her breath and appeared intoxicated.330 said the basin was clear also check basement that was clear . he willn't come back until monday to clean her pipes again . he can't find anything wrong with her drainage system. he told her he will be back on monday (hgw)	TRUE	TRUE
9/8/2011	HUNTERDON	STOCKTON BORO	29	N&S	22.48	523	None	Flooding	REOC	TRUE	FALSE
4/5/2010	HUNTERDON	STOCKTON BORO	29	N	22.48	cr-523-ferry st	None	Clogged Storm Drain/Flooding	in front of m & w auto service, road flooded signs still out.//vac/jet in shop cant do anything til repaired. E-MAILED TO 35 4-10-10 (NC) Repaired by contract TCM	TRUE	FALSE
12/7/2011	HUNTERDON	DELAWARE TWP.	29	N&S	24		All	Flooding	c-reoc open///stmc moises adv	TRUE	FALSE
11/22/2011	HUNTERDON	DELAWARE TWP.	29	N&S	24		All	Flooding	all lanes closed 35 will handle it e-mail to stmc	TRUE	FALSE
4/16/2011	HUNTERDON	DELAWARE TWP.	29	N&S	24		All	Flooding		TRUE	TRUE
3/6/2011	HUNTERDON	DELAWARE TWP.	29	N&S	24			Flooding	No lanes closed	TRUE	TRUE
12/26/2009	HUNTERDON	DELAWARE TWP.	29	N&S	24	MP 24.0		Flooding	REOC OPEN - BOTH DIRECTIONS \\	TRUE	TRUE
12/9/2009	HUNTERDON	DELAWARE TWP.	29		24			Flooding		TRUE	FALSE
6/13/2009	HUNTERDON	DELAWARE TWP.	29	N&S	24.4	palmira road federal twist		Flooding		TRUE	TRUE
10/4/2011	HUNTERDON	DELAWARE TWP.	29		25.2	federal twist		Clogged Storm Drain/Flooding	hole in catch basin?330 will check out. //330 put a barrel on it and will give to 356. (1524) MD	TRUE	FALSE
9/8/2011	HUNTERDON	DELAWARE TWP.	29	N&S	25.24	Federal Twist Road	All	Flooding	creoc open** requesting additional barricades - they have car stuck in water** Stmc Moises	TRUE	FALSE
4/9/2009	HUNTERDON	STOCKTON BORO	29		26.84	rt 651		Clogged Storm Drain/Flooding	per citizen the storm drain in front of 2252 Daniel Bray Highway is so clogged that whenever it rains it floods all of the properties in this area, citizen wants someone to call her so that she can meet them to show where the problem is because it won't be seen easily//331 had 330 call, gave info to 330 (14:14 LM)//14:51 330 JOE ADV PROB DRAIN PIPE ON HER PROPERTY & GOES ONTO STATE PROPERTY- WILL GIVE TO FREEHOLD TO MAKE JUDGEMENT CALL-CALLER WANTS PIPE REPLACED-KEEP CALL OPEN-MC//	TRUE	FALSE
1/25/2010	HUNTERDON	KINGWOOD TWP.	29	N	28		All	Flooding		TRUE	FALSE
9/28/2011	HUNTERDON	KINGWOOD TWP.	29	N&S	34			Flooding	per conv w 330 a private contractor will handle the flooding call. He called cdu at 16:20	TRUE	FALSE
9/29/2011	HUNTERDON	KINGWOOD TWP.	29	N&S	28 to 29		All	Flooding	no lanes closed...	TRUE	FALSE

Date_Of_Incident	Municipality	Route	Direction	MilePoint	Limits	Lanes_Affected	Description	Notes
1/28/2009	LAMBERTVILLE CITY	29	N&S	19.89	ALEXAUKN AND CREEK RD	Multiple	Icing Conditions	
12/13/2009	LAMBERTVILLE CITY	29	N&S	20	Route 202		Icing Conditions	
1/21/2009	DELAWARE TWP.	29	N	23	Cty Rt 519		Icing Conditions	
12/15/2010	STOCKTON BORO	29	N	23.03	rt 519		Icing Conditions	
2/2/2013	KINGWOOD TWP.	29	N	30.5			Icing Conditions	
2/27/2011	KINGWOOD TWP.	29	N	30.5			Icing Conditions	Sp received call from Off.Duty**advised
3/1/2009	DELAWARE TWP.	29	N&S	20.-21.72/23.0-26.24	ENTIRE STRETCH	All	Icing Conditions	CREOC OPEN
2/3/2009	DELAWARE TWP.	29	N&S	20-26	entire stretch	All	Icing Conditions	reoc open
12/13/2009	STOCKTON BORO	29	N&S	21.72-34.	Stockton-Frenchtown	All	Icing Conditions	22:26 Kingwood Twp Nb closed down due
12/17/2009	KINGWOOD TWP.	29	N&S	30-31		All	Icing Conditions	3301 will handle

DATE	CREW#	ACTIVIT Y#	ACTIVITY DESCRIPTION	ROUTE	BEGIN MP	END MP	LABOR \$	EQUIPMENT \$	MATERIAL \$
10-Jun-10	3560	414	RECONSTRUCT INLET/MANHOLE	29	19.9	19.9	788	57	19
14-Apr-10	3560	414	RECONSTRUCT INLET/MANHOLE	29	20	20	622	48	73
15-Apr-10	3560	749	INSTALL/REPAIR PIPES	29	21.2	21.2	728	62	75
15-Apr-09	3300	745	CLEAN INLETS AND MANHOLES	29	22	22	486	180	0
07-Jul-09	3300	744	CLEAN PIPES	29	22	22.1	213	31	0
30-Jun-10	3300	745	CLEAN INLETS AND MANHOLES	29	22	22	333	78	0
26-Sep-11	3300	744	CLEAN PIPES	29	22.35	22.35	\$349	\$148	\$0
06-Apr-10	3300	745	CLEAN INLETS AND MANHOLES	29	22.5	22.5	319	92	0
28-Jun-11	3560	414	RECONSTRUCT INLET/MANHOLE	29	22.5	22.6	\$489	\$76	\$17
14-Jun-11	3300	745	CLEAN INLETS AND MANHOLES	29	22.6	22.9	\$512	\$127	\$0
22-Jun-11	3300	746	CLEAN DITCHES/CHANNELS	29	22.6	22.65	\$349	\$92	\$0
08-Jul-11	3300	745	CLEAN INLETS AND MANHOLES	29	23	34	\$178	\$34	\$0
13-Jul-11	3300	745	CLEAN INLETS AND MANHOLES	29	23	34	\$171	\$34	\$0
09-Jan-09	3680	745	CLEAN INLETS AND MANHOLES	29	23.9	25.6	540	124	75
13-Oct-11	3560	414	RECONSTRUCT INLET/MANHOLE	29	25.24	25.24	\$1,068	\$89	\$106
09-Jan-09	3680	746	CLEAN DITCHES/CHANNELS	29	25.6	25.6	200	38	0
05-Mar-09	3680	747	REPAIR INLET/MANHOLE	29	26	30	264	43	0
23-Mar-09	3680	414	RECONSTRUCT INLET/MANHOLE	29	26	26	728	116	184
15-Apr-10	3560	414	RECONSTRUCT INLET/MANHOLE	29	27	27	472	53	90
15-Apr-10	3560	414	RECONSTRUCT INLET/MANHOLE	29	27.88	27.88	472	53	90
28-Jun-11	3560	414	RECONSTRUCT INLET/MANHOLE	29	27.88	27.88	\$603	\$49	\$17
30-Sep-11	3300	745	CLEAN INLETS AND MANHOLES	29	28	29	\$520	\$126	\$0
01-Mar-11	3560	414	RECONSTRUCT INLET/MANHOLE	29	28.3	28.3	\$855	\$51	\$25
20-May-10	3300	745	CLEAN INLETS AND MANHOLES	29	29	30	243	71	0
21-May-10	3300	745	CLEAN INLETS AND MANHOLES	29	29	30	243	92	0
24-Jun-10	3560	414	RECONSTRUCT INLET/MANHOLE	29	29.7	29.7	475	49	24
24-Jun-10	3560	414	RECONSTRUCT INLET/MANHOLE	29	29.79	29.79	475	49	24
16-Dec-09	3300	746	CLEAN DITCHES/CHANNELS	29	30	30.5	583	123	0
17-Jun-10	3560	414	RECONSTRUCT INLET/MANHOLE	29	30.2	30.2	1002	82	68
16-Jul-09	3560	414	RECONSTRUCT INLET/MANHOLE	29	30.3	30.3	448	120	11
10-Jun-10	3560	414	RECONSTRUCT INLET/MANHOLE	29	30.3	30.3	1074	125	58
24-Apr-09	3680	414	RECONSTRUCT INLET/MANHOLE	29	30.4	30.5	728	56	24
25-Oct-11	3560	414	RECONSTRUCT INLET/MANHOLE	29	30.5	30.5	\$854	\$98	\$233
05-Dec-11	3560	414	RECONSTRUCT INLET/MANHOLE	29	30.6	30.6	\$1,068	\$89	\$18
20-May-10	3560	414	RECONSTRUCT INLET/MANHOLE	29	30.8	30.8	308	19	14
27-Oct-11	3560	747	REPAIR INLET/MANHOLE	29	31.2	31.2	\$353	\$43	\$0
07-Aug-09	3300	745	CLEAN INLETS AND MANHOLES	29	33.23	33.24	478	127	0
15-Sep-11	3300	745	CLEAN INLETS AND MANHOLES	29	33.8	33.99	\$178	\$78	\$0
13-Sep-11	3560	746	CLEAN DITCHES/CHANNELS	29	33.99	33.99	\$1,181	\$227	\$0
14-Sep-11	3560	746	CLEAN DITCHES/CHANNELS	29	33.99	33.99	\$1,179	\$149	\$0
14-Sep-11	3300	744	CLEAN PIPES	29	33.99	33.99	\$178	\$92	\$0
15-Sep-11	3560	746	CLEAN DITCHES/CHANNELS	29	33.99	33.99	\$1,395	\$200	\$0
19-Sep-11	3300	744	CLEAN PIPES	29	33.99	33.99	\$178	\$92	\$0
22-Sep-11	3560	746	CLEAN DITCHES/CHANNELS	29	33.99	33.99	\$482	\$143	\$0

From: [Henry, Kevin](#)
To: [Laura Hazen](#)
Cc: [Conrey, Jim](#)
Subject: RT 29 Projects in PRS and RT 29 Limited Scope Draft CD Report
Date: Friday, November 21, 2014 3:07:08 PM

Hello Laura,

We looked in PRS there are no other projects within our limits. We can lend you a copy of the CD for the RT 29 Limited Scope Paving Project if you tell me when someone from HNTB will be at NJDOT Headquarters in Trenton; I will leave it at the Security Desk in the lobby of the E&O Building in an envelope with your name on it.

From: [Henry, Kevin](#)
To: [Laura Hazen](#)
Cc: [Conrey, Jim](#)
Subject: FW: Re: Route 29 CD Frequently Hit Utility Pole Request Mileposts 19.8 -34.3, UPC # 114130
Date: Friday, November 21, 2014 10:38:02 AM
Attachments: [Re Route 29 CD Frequently Hit Utility Pole Request Mileposts 19.8 -34.3 UPC # 114130.msg](#)

Laura,

Here is some information that me be use full from Utilities.

From: Pinto, Frank
Sent: Monday, March 24, 2014 9:14 AM
To: Henry, Kevin
Subject: Fwd: Re: Route 29 CD Frequently Hit Utility Pole Request Mileposts 19.8 -34.3, UPC # 114130

Kevin,

Please see Jim's response. Kevin works in Traffic.

Frank Pinto
Utility Facilitator
Capital Program Support
609-530-2881

From: [Lepri, James](#)
To: [Pinto, Frank](#)
Subject: Re: Route 29 CD Frequently Hit Utility Pole Request Mileposts 19.8 -34.3, UPC # 114130

Frank,

I have no hit locations on my 2003-2005 list. I recommend that the designers reach out to Kevin Conover's group to make a request for current crash reports.

Jim

>>> Frank Pinto 3/24/2014 8:13 AM >>>
Jim,

Please check the pole hit list for the limits of this project.

Thanks!

Frank

From: [Henry, Kevin](#)
To: [Laura Hazen](#)
Subject: FW: Fwd: Route 29 S of Alexauken Creek Rd to Washington Street Pavement UPC # 114130 Request for Dat
Date: Monday, December 01, 2014 10:08:43 AM
Attachments: [NJ 29 MP 19.80 - 34.3.XLSX](#)

Laura,

Here is another SME response from Congestion Management for the above project.

-----Original Message-----

From: Levinton, Ira
Sent: Tuesday, April 16, 2013 5:17 PM
To: Henry, Kevin
Cc: Allen, John; Galgali, Neha
Subject: Re: Fwd: Route 29 S of Alexauken Creek Rd to Washington Street Pavement UPC # 114130 Request for Dat

Kevin

Attached is the NJCMS scoring and rating for your requested location on NJ 29

Ira
5-2846

>>> Neha Galgali 4/16/2013 3:11 PM >>>
Hi Ira

See attached NJCMS scoring and rating for the requested project location.
Thanks.

Neha

>>> Ira Levinton 4/12/2013 9:32 AM >>>

>>> Kevin Henry 4/11/2013 11:49 AM >>>
Please see attached request.



New Jersey Department of Transportation

Bureau of Systems Planning

CMS Priority Ranking

NJ 29 (MP 19.80 - 34.30),

Lamberville City and Delaware Twp., Hunterdon County

CMS Link Number	Route	Begin Milepost	End Milepost	One-Way ADT (2009) (Veh./Day)	No. of Lanes (NB/EB)	No. of Lanes (SB/WB)	Max V/C	Overall Score	Priority Rating	System Top Percentile	County	County Top Percentile	MPO	MPO Top Percentile
1529	NJ 29	19.60	20.00	3494	2	2	0.12	0.95	Low	100	Hunterdon	95	NJTPA	100
1530	NJ 29	20.00	20.30	2869	2	2	0.14	0.93	Low	100	Hunterdon	96	NJTPA	100
1531	NJ 29	20.30	21.50	2422	1	1	0.24	1.57	Low	96	Hunterdon	80	NJTPA	97
1532	NJ 29	21.50	22.15	2582	1	1	0.26	1.67	Low	95	Hunterdon	75	NJTPA	96
1533	NJ 29	22.15	22.45	2742	1	1	0.28	1.78	Low	95	Hunterdon	72	NJTPA	96
1534	NJ 29	22.45	23.00	2381	1	1	0.24	1.54	Low	96	Hunterdon	81	NJTPA	97
1535	NJ 29	23.00	23.90	2069	1	1	0.20	1.30	Low	98	Hunterdon	88	NJTPA	99
1536	NJ 29	23.90	25.00	1625	1	1	0.15	1.02	Low	99	Hunterdon	93	NJTPA	100
1537	NJ 29	25.00	27.00	1120	1	1	0.11	0.70	Low	100	Hunterdon	97	NJTPA	100
1538	NJ 29	27.00	29.00	892	1	1	0.08	0.56	Low	100	Hunterdon	100	NJTPA	100
1539	NJ 29	29.00	29.80	938	1	1	0.09	0.59	Low	100	Hunterdon	100	NJTPA	100
1540	NJ 29	29.80	30.40	979	1	1	0.09	0.61	Low	100	Hunterdon	99	NJTPA	100
1541	NJ 29	30.40	31.30	1020	1	1	0.10	0.64	Low	100	Hunterdon	99	NJTPA	100
1542	NJ 29	31.30	32.00	1061	1	1	0.10	0.66	Low	100	Hunterdon	98	NJTPA	100
1543	NJ 29	32.00	34.26	1104	1	1	0.10	0.69	Low	100	Hunterdon	98	NJTPA	100

This section of NJ 29 is "Not Congested".

 - Highest Score in this section

The Overall Score shown above considers V/C ratio and ADT per lane. Each factor is weighted 50%.

Priority Ratings are based on the Overall Score of 0 to 10, as follows:

High = 7.00+

Med-High = 6 - 6.99

Medium = 5.00 - 5.99

Medium-Low = 4.00 - 4.99

Low < 4.00

From: [Henry, Kevin](#)
To: [Laura Hazen](#)
Subject: FW: Route 29 S of Alexauken Creek Rd to Washington Street Pavement UPC # 114130 Request for Data Management Systems
Date: Monday, December 01, 2014 10:07:57 AM
Attachments: [Rt 29 Pavement CD-Shotgun memo for Management Systems.DOCX](#)
[SLD for RT 29 Pavement.PDF](#)

Laura,

Here is a response from Traffic Engineering on Rt 29 Pavement original project just in case I did not sent it earlier.

From: Martin, David
Sent: Friday, May 10, 2013 10:55 AM
To: Henry, Kevin
Subject: Re: Route 29 S of Alexauken Creek Rd to Washington Street Pavement UPC # 114130 Request for Data Management Systems

Kevin: Sorry for the late response. Traffic Engineering has no pending investigations within the limits of this project.

Dave

Dave Martin
Supervising Engineer
Bureau of Traffic Engineering
Division of Highway and Traffic Design
NJDOT
PO Box 600
Trenton, NJ 08625

Phone: 609-530-3717
Fax: 609-530-2593

>>> Kevin Henry 4/11/2013 11:49 AM >>>
Please see attached request.

From: [Henry, Kevin](#)
To: [Laura Hazen](#)
Cc: [Conrey, Jim](#)
Subject: FW: Rt 29 , River Rd. to Warsaw Rd. Rockfall Mitigation Project, DB# 11413B, UPC # 158020 Mileposts: MP 27.40-27.50NB; 27.50-27.65NB; MP 27.78-28.48NB; &MP 29.85-30.45NB a breakout of Rt 29 Pavement Concept Development Project
Date: Wednesday, December 03, 2014 9:47:41 AM

Laura,

Here is some input from latest request for info on Route 29 Rockfall from Management Systems.

From: Ghorbani, Ahmad
Sent: Wednesday, December 03, 2014 8:11 AM
To: Henry, Kevin
Subject: FW: Rt 29 , River Rd. to Warsaw Rd. Rockfall Mitigation Project, DB# 11413B, UPC # 158020 Mileposts: MP 27.40-27.50NB; 27.50-27.65NB; MP 27.78-28.48NB; &MP 29.85-30.45NB a breakout of Rt 29 Pavement Concept Development Project

Kevin,
If you need details on the work orders, you can reach out to Structural Evaluation.

Ahmad Ghorbani
Manager
Bridge Maintenance Engineering & Operations
NJDOT
609-530-3708
609-530-4666 fax

From: Neuman, Roy
Sent: Wednesday, December 3, 2014 8:00 AM
To: Ghorbani, Ahmad; Henry, Kevin
Subject: RE: Rt 29 , River Rd. to Warsaw Rd. Rockfall Mitigation Project, DB# 11413B, UPC # 158020 Mileposts: MP 27.40-27.50NB; 27.50-27.65NB; MP 27.78-28.48NB; &MP 29.85-30.45NB a breakout of Rt 29 Pavement Concept Development Project

The flowing work orders were completed:

MP 25.73 WO # 5310
MP 33.19 WO # 7348
MP 24.55 WO # 7481
MP 29.87 WO # 5299
MP 25.73 WO # 5300
MP 27.4 WO # 5295
MP 23.03 WO # 4887
MP 21.6 WO # 5132

I have NO pending work orders under my Drainage Repair and Timber/Underwater Contracts.

The above WO's can be looked at under Client Apps.

From: Ghorbani, Ahmad

Sent: Monday, December 01, 2014 1:55 PM

To: Neuman, Roy; Ennas, Anthony; Najem, A. Atta; Eskander, Silvia

Subject: Rt 29 , River Rd. to Warsaw Rd. Rockfall Mitigation Project, DB# 11413B, UPC # 158020

Mileposts: MP 27.40-27.50NB; 27.50-27.65NB; MP 27.78-28.48NB; &MP 29.85-30.45NB a breakout of Rt 29 Pavement Concept Development Project

FYI/A

From: Henry, Kevin

Sent: Monday, December 01, 2014 1:35 PM

To: Levinton, Ira; Kasbekar, Nat; Azam, Sophia; Ghorbani, Ahmad; Martin, David; Horan, Mike; Dube, Richard

Cc: Rich, Lynn; Lambert, Dave; Jaffe, Richard; Lee, Robert; Tunnard, Andrew

Subject: Rt 29 , River Rd. to Warsaw Rd. Rockfall Mitigation Project, DB# 11413B, UPC # 158020

Mileposts: MP 27.40-27.50NB; 27.50-27.65NB; MP 27.78-28.48NB; &MP 29.85-30.45NB a breakout of Rt 29 Pavement Concept Development Project

The Division of Project Management (DPM) has initiated a Limited Scope Rockfall Mitigation Project which is a breakout of the Route 29 South of Alexauken Creek Rd to Washington St Pavement Project MP 19.8-34.3 Lambertville City, Delaware Twp., Kingwood Twp., Hunterdon County Concept Development Study.

I have attached the shotgun letter and SLDs that were sent out to your units on April 11, 2013. We did not get a response from some of the units at that time. If you did not respond to us at that time please provide us with a response by December 15, 2014. The same information is requested as in the 2013 shotgun letter, just use the new Mileposts shown above. Thank you.

Below is a brief description of the project.

Limited Scope Rockfall Mitigation

- Mileposts: MP 27.40-27.50NB; 27.50-27.65NB; MP 27.78-28.48NB; &MP 29.85-30.45NB
- Rock fall Hazard Management System (RHMS):

Of the 444 cut slopes within the RHMS, the slope @ MP 27.78-28.48 is currently ranked #4, while the slope @ MP 29.85-30.45 is #16; while the remaining 2 cuts are ranked lower, it is considered prudent to remediate all 4 together, as the locations are close geographically & the anticipated mitigation methods will be similar. This approach is standard, and typically aids to limit project costs & traffic impacts.

- Recent Rockfall History:

1. On April 26, 2014, a large rockfall event at MP 28.0 resulted in approximately 12-13 tons of fallen rock; of this total amount, 1 large boulder (5 tons) came to rest in the center of the single SB travel lane, while a second boulder (3 tons) came to rest in the center of the single NB travel lane. The remaining rock came to rest at the shoulder line. This fall location is within the MP 27.78-28.48 cut section noted above.
2. On December 22 & 23, 2013, two separate rockfall events at MP 27.4 resulted in approximately 6-8 tons of fallen rock. All of the material came to rest at the shoulder line. These fall locations are within the MP 27.40-27.50 cut section noted above.

- Rock fall Mitigation Measures:

Anticipated rock fall mitigation will include (but may not be limited to) clearing of vegetation, slope scaling, large block removal, and installation of wire mesh netting & rockfall catch fences.

- ROW:

Efforts will be made to limit (if not eliminate) ROW impacts, however, limited taking may be necessary or easements may be required.

- Construction Cost:\$8M-\$10M

From: [Henry, Kevin](#)
To: [Laura Hazen](#)
Cc: [Conrey, Jim](#)
Subject: FW: Rt 29 , River Rd. to Warsaw Rd. Rockfall Mitigation Project, DB# 11413B, UPC # 158020 Mileposts: MP 27.40-27.50NB; 27.50-27.65NB; MP 27.78-28.48NB; &MP 29.85-30.45NB a breakout of Rt 29 Pavement Concept Development Project
Date: Thursday, December 04, 2014 4:42:24 PM
Attachments: [Rt 29 MP 19.8 To 34.3 Bridges.xls](#)
[RT 29 Bridges SI&A File 1.pdf](#)
[RT 29 Bridges SI&A File 2.pdf](#)

FYI

From: Shah, Chandrahas
Sent: Thursday, December 04, 2014 4:23 PM
To: Henry, Kevin
Cc: Patel, Guarangkumar; Bal, Harjit
Subject: RE: Rt 29 , River Rd. to Warsaw Rd. Rockfall Mitigation Project, DB# 11413B, UPC # 158020 Mileposts: MP 27.40-27.50NB; 27.50-27.65NB; MP 27.78-28.48NB; &MP 29.85-30.45NB a breakout of Rt 29 Pavement Concept Development Project

Please see the attached files.

I will be sending several email with attachments as there is a limitation on the size.

Thanks,
Chandrahas Shah

From: Patel, Guarangkumar
Sent: Monday, December 01, 2014 2:54 PM
To: Shah, Chandrahas
Subject: FW: Rt 29 , River Rd. to Warsaw Rd. Rockfall Mitigation Project, DB# 11413B, UPC # 158020 Mileposts: MP 27.40-27.50NB; 27.50-27.65NB; MP 27.78-28.48NB; &MP 29.85-30.45NB a breakout of Rt 29 Pavement Concept Development Project

CS – Have you responded?. If not please do it

From: Kasbekar, Nat
Sent: Monday, December 01, 2014 1:50 PM
To: Dalal, Jayant; Jamerson, John; Renman, Greg; Patel, Guarangkumar
Subject: Fw: Rt 29 , River Rd. to Warsaw Rd. Rockfall Mitigation Project, DB# 11413B, UPC # 158020 Mileposts: MP 27.40-27.50NB; 27.50-27.65NB; MP 27.78-28.48NB; &MP 29.85-30.45NB a breakout of Rt 29 Pavement Concept Development Project

Please review and respond If you have not done so before. Thanks
Nat

From: Henry, Kevin
Sent: Monday, December 01, 2014 01:35 PM Eastern Standard Time
To: Levinton, Ira; Kasbekar, Nat; Azam, Sophia; Ghorbani, Ahmad; Martin, David; Horan, Mike; Dube, Richard

Cc: Rich, Lynn; Lambert, Dave; Jaffe, Richard; Lee, Robert; Tunnard, Andrew

Subject: Rt 29 , River Rd. to Warsaw Rd. Rockfall Mitigation Project, DB# 11413B, UPC # 158020
Mileposts: MP 27.40-27.50NB; 27.50-27.65NB; MP 27.78-28.48NB; &MP 29.85-30.45NB a breakout of
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I have attached the shotgun letter and SLDs that were sent out to your units on April 11, 2013. We did not get a response from some of the units at that time. If you did not respond to us at that time please provide us with a response by December 15, 2014. The same information is requested as in the 2013 shotgun letter, just use the new Mileposts shown above. Thank you.

Below is a brief description of the project.

Limited Scope Rockfall Mitigation

- Mileposts: MP 27.40-27.50NB; 27.50-27.65NB; MP 27.78-28.48NB; &MP 29.85-30.45NB
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Of the 444 cut slopes within the RHMS, the slope @ MP 27.78-28.48 is currently ranked #4, while the slope @ MP 29.85-30.45 is #16; while the remaining 2 cuts are ranked lower, it is considered prudent to remediate all 4 together, as the locations are close geographically & the anticipated mitigation methods will be similar. This approach is standard, and typically aids to limit project costs & traffic impacts.
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 1. On April 26, 2014, a large rockfall event at MP 28.0 resulted in approximately 12-13 tons of fallen rock; of this total amount, 1 large boulder (5 tons) came to rest in the center of the single SB travel lane, while a second boulder (3 tons) came to rest in the center of the single NB travel lane. The remaining rock came to rest at the shoulder line. This fall location is within the MP 27.78-28.48 cut section noted above.
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- Rock fall Mitigation Measures:
Anticipated rock fall mitigation will include (but may not be limited to) clearing of vegetation, slope scaling, large block removal, and installation of wire mesh netting & rockfall catch fences.
- ROW:
Efforts will be made to limit (if not eliminate) ROW impacts, however, limited taking may be necessary or easements may be required.
- Construction Cost:\$8M-\$10M

ROUTE	Bridge No.	Mile Post	BMS Ranking
29	1007153	19.96	5
29	1007154	20.62	N/A
29	1007155	21.43	N/A
29	1007156	21.69	N/A
29	1007157	22.51	N/A
29	1007159	23.03	3
29	1008150	24.58	5
29	1008151	25.73	N/A
29	1008152	26.68	N/A
29	1008153	27.46	N/A
29	1008154	27.91	N/A
29	1008155	28.45	N/A
29	1008156	28.79	N/A
29	1008157	28.98	N/A
29	1008158	29.42	N/A
29	1008159	29.87	N/A
29	1008160	30.75	N/A
29	1008165	23.91	N/A
29	1008166	26.14	N/A
29	1009150	33.19	3
29	1009151	31.31	N/A
29	1009152	32.11	N/A
29	1009153	32.36	N/A
29	1009154	32.69	N/A

From: [Henry, Kevin](#)
To: [Laura Hazen](#)
Cc: [Conrey, Jim](#)
Subject: FW: Rt 29 , River Rd. to Warsaw Rd. Rockfall Mitigation Project, DB# 11413B, UPC # 158020 Mileposts: MP 27.40-27.50NB; 27.50-27.65NB; MP 27.78-28.48NB; &MP 29.85-30.45NB a breakout of Rt 29 Pavement Concept Development Project
Date: Monday, December 15, 2014 8:54:59 AM
Attachments: [Rt 29 Pavement CD-Shotgun memo for Management Systems revision of 12-01-14.docx](#)
[RT 29 Pavement SLD sheets 7-12.pdf](#)
[NJ 29 MP 27.40 - 30.45.xlsx](#)

Lauren,

Here is the latest Congestion Management System Data for Route 29.

From: Levinton, Ira
Sent: Friday, December 12, 2014 5:14 PM
To: Henry, Kevin
Cc: Allen, John; Galgali, Neha
Subject: FW: Rt 29 , River Rd. to Warsaw Rd. Rockfall Mitigation Project, DB# 11413B, UPC # 158020 Mileposts: MP 27.40-27.50NB; 27.50-27.65NB; MP 27.78-28.48NB; &MP 29.85-30.45NB a breakout of Rt 29 Pavement Concept Development Project

Kevin,

Attached is the NJCMS scoring and rating for your project location on NJ 29.

Thank you

Ira Levinton

609-530-2846

From: Galgali, Neha
Sent: Friday, December 12, 2014 4:54 PM
To: Levinton, Ira
Subject: FW: Rt 29 , River Rd. to Warsaw Rd. Rockfall Mitigation Project, DB# 11413B, UPC # 158020 Mileposts: MP 27.40-27.50NB; 27.50-27.65NB; MP 27.78-28.48NB; &MP 29.85-30.45NB a breakout of Rt 29 Pavement Concept Development Project

Hi Ira

See attached NJCMS scoring and rating for the breakout project on NJ 29.

Thanks.

Neha

From: Levinton, Ira
Sent: Monday, December 01, 2014 4:31 PM
To: Galgali, Neha
Subject: FW: Rt 29 , River Rd. to Warsaw Rd. Rockfall Mitigation Project, DB# 11413B, UPC # 158020
Mileposts: MP 27.40-27.50NB; 27.50-27.65NB; MP 27.78-28.48NB; &MP 29.85-30.45NB a breakout of
Rt 29 Pavement Concept Development Project

From: Henry, Kevin
Sent: Monday, December 01, 2014 1:35 PM
To: Levinton, Ira; Kasbekar, Nat; Azam, Sophia; Ghorbani, Ahmad; Martin, David; Horan, Mike; Dube, Richard
Cc: Rich, Lynn; Lambert, Dave; Jaffe, Richard; Lee, Robert; Tunnard, Andrew
Subject: Rt 29 , River Rd. to Warsaw Rd. Rockfall Mitigation Project, DB# 11413B, UPC # 158020
Mileposts: MP 27.40-27.50NB; 27.50-27.65NB; MP 27.78-28.48NB; &MP 29.85-30.45NB a breakout
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 - Construction Cost:\$8M-\$10M



New Jersey Department of Transportation

Bureau of Commuter and Mobility Strategies

CMS Priority Scoring and Rating

NJ 29 (MP 27.40 - 30.45), River Rd. to Warsaw Rd., Rockfall Mitigation
Kingwood Twp., Hunterdon County

CMS Link Number	Route	Begin Milepost	End Milepost	24 Hr 2-Way Volume (Year 2012)	Function Class	No. of Lanes (NB/EB)	No. of Lanes (SB/WB)	Max V/C AM	Max V/C PM	Overall Score	Priority Rating	System Top Percentile	County	MPO
2402	NJ-29	23.30	34.33	2355	6	1	1	0.11	0.11	1.41	Low	100	Hunterdon	NJTPA

This section of roadway is "Not Congested".



- Highest Score in this section

The Overall Score shown above considers AM and PM V/C ratios, 24 hour 2-way volumes and function class.

Priority Ratings are based on the Overall Score of 0 to 10, as follows:

High = 7.00+

Med-High = 6 - 6.99

Medium = 5.00 - 5.99

Medium-Low = 4.00 - 4.99

Low < 4.00

From: [Henry, Kevin](#)
To: [Laura Hazen](#)
Subject: FW: FW: Rt 29 , River Rd. to Warsaw Rd. Rockfall Mitigation Project, DB# 11413B, UPC # 158020 Mileposts: MP 27.40-27.50NB; 27.50-27.65NB; MP 27.78-28.48NB; &
Date: Tuesday, January 06, 2015 10:12:55 AM
Attachments: [FW Rt 29 River Rd. to Warsaw Rd. Rockfall Mitigation Project DB# 11413B UPC # 158020 Mileposts MP 27.40-27.50NB; 27.50-27.65NB; MP 27.78-28.48NB; MP 29.85-30.45NB a breakout of Rt 29 Pavement Concept Development Project .msg](#)

Laura,

Here is another SME response for Route 29.

From: Idowu, Joshua
Sent: Friday, January 02, 2015 3:38 PM
To: Henry, Kevin
Cc: Dube, Richard
Subject: FW: Rt 29 , River Rd. to Warsaw Rd. Rockfall Mitigation Project, DB# 11413B, UPC # 158020 Mileposts: MP 27.40-27.50NB; 27.50-27.65NB; MP 27.78-28.48NB; &

Good Afternoon Kevin,

Major Access Bureau do not currently have any active Major Access permit application work within the limits of Route 29, MP. 19.8 through 34.3.

Sincerely,

Joshua Idowu
Major Access Bureau

Community Outreach Plan – All Information to be obtained from the Office of Community and Constituent Relations

Y	N		30 days or more prior to FDS	30 days or less prior to Construction **
y		Officials Briefing		
	n	Public Information Center – Design		
	n	Public Information Center – Construction		
y		Letters to Officials		
	n	Letters to Property Owners		
	n	Letters to all in zip code/ neighborhood		
	n	Kiosk or display in a Public Place		
y		Information on DOT Website		
		Press release		

**** Pre-Construction Officials Briefings and Pre-Construction Public Information Centers, if required by O.C.C.R., should be held after the project has been awarded and should be attended by the State’s Resident Engineer and by the Contractor.**



State of New Jersey

DEPARTMENT OF TRANSPORTATION
P.O. Box 600
Trenton, New Jersey 08625-0600

CHRIS CHRISTIE
Governor

JAMIE FOX
Commissioner

KIM GUADAGNO
Lt. Governor

February 20, 2015

The Honorable Richard Dodds
Mayor, Kingwood Township
P.O. Box 199
Baptistown, NJ 08803

Re: Route 29 Rockfall Mitigation
UPC #114130
Kingwood Township, Hunterdon County
Limited Scope Concept Development

Dear Mayor Dodds:

This letter is to inform you that the New Jersey Department of Transportation (NJDOT) is currently undertaking a rockfall mitigation project on Route 29 in Kingwood Township, from MP 27.31 (north of Old River Road) to MP 30.43 (south of Kingwood Station-Barbertown Road). See the attached Straight Line Diagram for reference.

This project is currently in the Concept Development phase, which will be completed this spring. Should the Department approve the project for advancement to the Final Design phase, informational meetings will be held with Township Officials and the public prior to construction.

The purpose of this project is to reduce the frequency and severity of rockfall events such that this location can be removed from the NJDOT Rockfall Hazard Management System's listing of High Priority locations.

If you have any specific questions or concerns regarding this project, please feel free to contact me at (609) 530-2110.

Sincerely,

Meredith Hammond
Community Relations Manager
Office of Community and Constituent Relations

Appendix L

Environmental Screening Report

NEW JERSEY DEPARTMENT OF TRANSPORTATION
Bureau of Landscape Architecture and Environmental Solutions
ENVIRONMENTAL AND LANDSCAPE SCREENING

Revised September 22, 2011

Date:	July 25, 2014
Request for this screening made by:	Jim Conrey
Project Name:	Rt. 29 Scenic Byway Rockfall
Project Description:	Rockfall Prevention
County and Municipality:	Hunterdon County, Kingwood Township

Project Purpose	
<input type="checkbox"/> Reduce Congestion	<input type="checkbox"/> Improve Vehicular/Driver Safety
<input type="checkbox"/> System Linkage	<input type="checkbox"/> Economic Development
<input type="checkbox"/> Improve Bike/Ped. Capacity or Safety	<input type="checkbox"/> Change to Current Design Standards
<input checked="" type="checkbox"/> Other (Describe) Rockfall Mitigation	

ENVIRONMENTAL CONSTRAINTS/OPPORTUNITIES:

Cultural Resources	Yes / No
Are there any 50+ year old structures in the project study area?	N
Are there known buildings or structures on or eligible for the State and /or National Register of Historic Places in the project study area?	N
Is there involvement with a historic bridge or culvert?	N
Is the project located in a known or potential Historic District?	N
Are there any undisturbed areas, old foundations or building rubble in the project study area?	Possible
Are there any known archaeological sites or potential underground cultural resources within the project study area?	Y
Enhancement Opportunities:	
Comments: NJDEP-GeoWeb revealed that there are known archaeological resources in the vicinity of Byram. No other resources are known. Rockfall mitigation is proposed for this project. As such, this project falls under #53, Rockfall Mitigation of the "No Effects List". Should the scope of the project change, SHPO coordination may be necessary.	

Section 4(f) Properties	Yes / No
Are there any recreational facilities within the project study area?	Y
Is there publicly owned open space in the project study area?	Y
Is there a Wildlife Refuge or Wildlife Management Area in the project study area?	N
Is there a school or school athletic fields in the project study area?	N
Is there a community park or parkland within the project study area?	Y
Enhancement Opportunities:	
Comments: The D&R Canal State Park runs the length of the proposed project. This State-owned (Parks and Forestry) Open Space should be avoided if at all possible. Coordination with Parks and Forestry and NJDEP Green Acres will be required if impacts occur to this Park.	

Air/Noise	Yes / No
Are there any sensitive receptors (i.e. residences, schools, hospitals, and churches) within 300 feet of the project?	N
Will the project change the vertical or horizontal alignment of the roadway?	N
Does the project provide for a significant increase in vehicle operating speeds of roadway capacity?	N
Is the project in a non-attainment area for Carbon Monoxide?	N
Is an intersection Carbon monoxide analysis required?	N
Is the project in a non-attainment area for PM2.5?	N
Is a PM2.5 hot-spot analysis required?	N
Is the project in a non-attainment area for PM10?	N
Is a PM10 hot-spot analysis required?	N
Mitigation Opportunities:	
Comments: No air or noise impacts are anticipated due to this proposed project.	

Ecology	Yes / No
Are there any wetlands, floodplains, sole source aquifer, stream crossings, riparian zones, or wildlife habitat in the project study area?	Y
Is there any potential for rare, threatened or endangered species or their habitats within the project study area <i>or</i> within a mile downstream of the project study area (where streams are present)?	Y

Is there any potential or known vernal pool habitat within the project study area?	N
Is there a potential need for wildlife crossings in the project area (e.g., pipes, small tunnels, fencing)?	N
Are there any trout maintenance or trout production streams within the project study area?	N
Are there any Category 1 waters in the project area?	N
Is the project located in a geologic formation(s) associated with acid producing soils?	N
Are there any potential stormwater management mitigation areas in project area or upstream of the project area?	N
Do Stormwater Management facilities need to be created? If so, are there potential locations within the project limits?	N
Are there any Wild and Scenic Rivers in the project study area?	Y
Does Essential Fish Habitat exist in the project study area?	N
Are there any other environmentally-sensitive areas that are possible project design constraints?	Y
Describe ecology in the project study area (e.g., heavily forested, urban, residential, etc.): Forested Highway/Small Cliff Faces	
<p>Comments: For the sections between Mileposts 27.4 – 27.65 there is a Natural Heritage Priority Site (Byram) in the area. There is one special concern plant species plus historically documented plant species in this area. Coordination will be necessary if impacts to this area are proposed. There are some wetlands west of Rt. 29 towards the north end of this site.</p> <p>For the section between Mileposts 27.78 – 28.48 there are wetlands west of Rt. 29 for most of the site.</p> <p>For the section between Mileposts 29.85 – 30.45 there is another Natural Heritage Priority Site (Devils Tea Table). There are known occurrences of endangered and special concern plant species on this site. Coordination will be necessary if impacts to this area are proposed. There are some wetlands west of Rt. 29 near Warsaw Road.</p> <p>The whole project area is in a Wild and Scenic River corridor. Coordination will be required with the National Park Service and/or the Local Government.</p> <p>The whole project is in the Coastal Plains Sole Source Aquifer. Due to the nature of the proposed work this type of project does not meet the criteria set forth in the USEPA and FHWA Memorandum of Understanding on Sole Source Aquifers that would require further review.</p> <p>State Endangered Bald Eagle, State Threatened Wood Turtle, State Threatened Yellow Lampmussel, Federally Threatened Bog Turtle, Federally Proposed Endangered northern long-eared bat, Federally Endangered Indiana Bat and Federally Endangered Shortnose Sturgeon all exist on or near the proposed project. Coordination will be required.</p> <p>Due to the presence of threatened or endangered species that are critically dependent on the Delaware River for survival, there is a 150' Riparian Zone. Impacts to the riparian zone, such as vegetation removal, will trigger the need for a FHA permit.</p>	

Potential environmental permits/approvals and interagency coordination		Comments:
<input type="checkbox"/>	US Coast Guard	
<input type="checkbox"/>	USACOE Section 10	
<input type="checkbox"/>	USACOE Section 404	
<input checked="" type="checkbox"/>	NJDEP Freshwater Wetlands	
<input type="checkbox"/>	NJDEP Water Quality Certification	
<input checked="" type="checkbox"/>	NJDEP Flood Hazard Area	
<input type="checkbox"/>	NJDEP CAFRA	
<input type="checkbox"/>	NJDEP Coastal Wetlands	
<input type="checkbox"/>	NJDEP Waterfront Development	
<input type="checkbox"/>	NJDEP Tidelands Conveyance	
<input type="checkbox"/>	NJPDES Construction Activity Stormwater GP	
<input type="checkbox"/>	NJDEP Stormwater Management	
<input type="checkbox"/>	PL 2001 Chapter 10 Reforestation	
<input type="checkbox"/>	Pinelands Commission	
<input checked="" type="checkbox"/>	D&R Canal Commission	
<input type="checkbox"/>	Meadowlands Commission	
<input type="checkbox"/>	Essential Fish Habitat	
<input type="checkbox"/>	Category One waters	
<input type="checkbox"/>	USEPA Sole Source Aquifer	
<input type="checkbox"/>	Highland Rules/Preservation Area	
<input type="checkbox"/>	Delaware River Port Authority	
Comments: Permits and coordination needs won't be known until after more detailed plans become available.		

Landscape Architecture	Yes / No
Is there deforestation taking place in accordance with the No Net Loss Reforestation Act (NNL P.L. 2001 Chapter 10 Reforestation)?	Y
Does existing vegetation need management (e.g., tree trimming, hazardous tree removal, clearing, thinning)?	Y
Will planting need to be included (e.g., commitments, street trees, reforestation)?	N
Are there Context Sensitive Solutions opportunities (e.g., streetscapes, screenings)?	N
Will vegetative Soil Erosion and Sediment Control Measures need to be included?	Y
Are there Aesthetic Enhancements that need to be addressed?	N
Are any structures proposed (e.g., bridge, retaining walls)?	N
Do Stormwater Management facilities need to be created?	N
Mitigation Opportunities:	
Comments: While more than ½ acre of tree canopy will be impacted, this project will be exempt due to public safety reasons.	

Socioeconomics	Yes / No
Will the project affect farmland or community facilities?	N
Based on the proposed improvements for this project, will there be possible displacement of businesses or residences?	N
Will the project affect access to community facilities, bus stop shelters, playgrounds or parks or gardens?	N
Can the project improve bike/ped facilities?	N
Are there any observable safety (e.g. ADA compliant) issues or concerns in the project study area?	N
Does project have potential for socioeconomic impacts? If YES provide US Census data in comments.	N
Does project have potential for Environmental Justice involvement? If YES provide US Census data in comments.	N
Comments: No socioeconomic issues are expected due to this proposed project.	

Hazardous Waste	Yes / No
Are there any known or suspected hazardous waste sites (UST, landfills, known NJDEP Case, ECRA Case), within the project study area?	N
Are there active or abandoned industries, service stations or repair shops within the project study area?	N
Is there evidence of potential contamination (monitoring wells, stained soils, etc.)?	N
Are railroads or railyards located in the project study area?	N
Enhancement Opportunities:	
Comments: No Hazardous contamination issues are anticipated with this project.	

Environmental Screening Summary: The D&R Canal State Park runs the length of the proposed project. This State-owned (Parks and Forestry) Open Space should be avoided if at all possible. Coordination with Parks and Forestry and NJDEP Green Acres will be required if impacts occur to this Park.

For the sections between Mileposts 27.4 – 27.65 there is a Natural Heritage Priority Site (Byram) in the area. There is one special concern plant species plus historically documented plant species in this area. Coordination will be necessary if impacts to this area are proposed. There are some wetlands west of Rt. 29 towards the north end of this site.

For the section between Mileposts 27.78 – 28.48 there are wetlands west of Rt. 29 for most of the site.

For the section between Mileposts 29.85 – 30.45 there is another Natural Heritage Priority Site (Devils Tea Table). There are known occurrences of endangered and special concern plant species on this site. Coordination will be necessary if impacts to this area are proposed. There are some wetlands west of Rt. 29 near Warsaw Road.

The whole project area is in a Wild and Scenic River corridor. Coordination will be required with the National Park Service and/or the Local Government.

State Endangered Bald Eagle, State Threatened Wood Turtle, State Threatened Yellow Lampmussel, Federally Threatened Bog Turtle, Federally Proposed Endangered northern long-eared bat, Federally Endangered Indiana Bat and Federally Endangered Shortnose Sturgeon all exist on or near the proposed project. Coordination will be required.

Due to the presence of threatened or endangered species that are critically dependent on the Delaware River for survival, there is a 150' Riparian Zone. Impacts to the riparian zone, such as vegetation removal, will trigger the need for a FHA permit.

Permits and coordination needs won't be known until after more detailed plans become available.

Prepared & Recommended By:

Megan W. Kelly
E-Team Screening Coordinator

7-25-14
Date

530-4550
Phone

Sabrina K. Proff
Environmental Team Leader

7-28-14
Date

5-2727
Phone

Mori Supper
Landscape Screening Coordinator

7/29/14
Date

5-3802
Phone

Brenda Hammer
Landscape Team Leader

7/29/14
Date

5-5672
Phone

Appendix M

Preliminary Engineering Scope Statement



NJDOT Scope Statement

Preliminary Engineering

Rt 29 Rockfall Mitigation, Kingwood Twp

Purpose: The Preliminary Engineering Scope Statement lists the proposed project’s deliverables and the activities required to create those deliverables. The scope statement also provides a common understanding of the proposed project’s scope to stakeholders, subject matter experts, and the designer and lists the proposed project’s major objectives. It enables the Project Manager to perform more detailed planning, it helps guide the design team’s work during execution, and provides the baseline for evaluating whether change requests or additional work are contained within or outside the proposed project’s boundaries.

Notes: The intent of the Preliminary Engineering (PE) Scope Statement is to provide useful project information to designers who are interested in becoming the designer of record for PE and possibly Final Design and Construction for this project. In addition, it will be used to solicit a man-hour estimate and cost proposal. The PE Scope Statement identifies the key elements of PE that are necessary to advance the proposed project to the Final Design (FD) Phase.

The PE Scope Statement is developed by the Division of Project Management (DPM) Project Manager and the Concept Development (CD) Designer near the conclusion of CD, prior to requesting the services of a designer to perform PE. The Scope of Work section is approved by the appropriate Subject Matter Experts (SME).

Section 1 of the document focuses on Proposed Project Identification Information and CD data including the location and description. Section 2 of the document specifies the Scope of Work for PE.

PROPOSED PROJECT IDENTIFICATION INFORMATION

PROPOSED PROJECT SPECIFICS

Proposed Project Name	Limits
<u>Rt 29 Rockfall Mitigation, Kingwood Twp</u>	<u>MP 27.31 to MP 30.43</u>
NJDOT Project Manager	NJDOT Program Manager
<u>Scott Deek</u>	<u>Atul Shah</u>
Counties	Municipalities
<u>Hunterdon</u> <u>Select County 2</u> <u>Select County 3</u>	<u>Kingwood Township</u> _____
UPC Number	<u>158020</u>
DB Number	_____
Legislative District(s)	<u>23</u> _____
Congressional District (s)	<u>7</u> _____
Route	<u>29</u>
Start Milepost	<u>27.31</u>
End Milepost	<u>30.43</u>
Alternate Route	_____
Alternate Start Milepost	_____
Alternate End Milepost	_____
STIP Information	<u>The FY 2014-2023 Statewide Transportation Improvement Program (STIP) has a Rockfall Mitigation line item (DB #X152) and a Project Specific line item will be established when the next updated STIP is approved.</u>
Structure Numbers	<u>1008-153, 1008-154, 1008-155, 1008-156, 1008-157, 1008-158, 1008-159</u>
Project Classification:	<u>9 - Unique</u>



Preliminary Engineering

MPO	_____
-----	-------

PROPOSED PROJECT ESTIMATE

List the Proposed Project estimates for each category from Concept Development.

Project Item:	CD Phase Estimated Amount
ROW	\$
Utility Relocation	\$
Construction	\$32,805,000
Construction Engineering	\$3,179,000
Contingencies	\$1,156,000
Total	\$37,140,000

CONCEPT DEVELOPMENT INFORMATION

Date of Concept Development Report:	_____	Date of Federal Approval of CD Report:	_____
Date of CPC decision to advance project to PE:	_____		
CD Designer:	_____		
PE to be Completed by (check one):	<input type="checkbox"/> In-House <input checked="" type="checkbox"/> Consultant		

Purpose and Need:

Project Purpose:
 The purpose of this project is to reduce the frequency and severity of rockfall events such that this location can be removed from the NJDOT Rockfall Hazard Management System's listing of High Priority locations.

Project Need:
 The Geotechnical Engineering Unit has identified this section of Route 29 as being in need of rockfall mitigation measures based on recent and historic rockfall events within the project limits. Of the 444 cut slopes within the RHMS, one of the four included in this project is ranked #4 and a second is ranked #16.

Description of Preliminary Preferred Alternative: The project site has been subdivided from the southern to northern limits into four areas based on variation of rock condition. For all sites, mitigation strategies involving rock removal, rock reinforcement, and rockfall control were considered. The following options were selected as the Preliminary Preferred Alternatives for each area.

Area A: Option V - Removal / Protection - Re-slope and construct catchment ditch, install draped mesh on upper slope. This option includes a sub-vertical cut at the toe of the slope to create a ditch in combination with draped mesh for the slope above (after removal of vegetation). Excavation would be via a combination of mechanical and drill and blast methods.

Areas B and C: Option II - Protection - Re-slope, construct catchment ditch, and fence at crest of lower slope. This option includes a sub-vertical cut at the toe of the slope to create a catchment ditch and supplements the ditch with a draped mesh and an intermediate rockfall control fence located at the crest of the lower slope.



Preliminary Engineering

Area D: Option IX - Combination - Localized trim blasting, reinforcement of Devils Tea Table, and shotcrete or dental concrete.

Project Goals and Objectives:

Goals and objectives for this project include:

- Implement cost effective rockfall mitigation measures that will address the stated purpose.
- Avoid, minimize, or mitigate impacts to environmentally sensitive areas, including Federal and State parklands, wetlands, water resources, etc.
- Minimize impacts to traffic during construction.

PRELIMINARY ENGINEERING INFORMATION (to be filled in upon selection of a designer)

PE Designer:	_____	
FMIS Contract ID Number (e.g., 89 00766):	_____	Funding Source: _____
Agreement Number (e.g., 2001PM03):	_____	



Preliminary Engineering

PRELIMINARY ENGINEERING DELIVERABLES

3.1 Preliminary Engineering Initiation	<input checked="" type="checkbox"/> Utility Agreement	<input type="checkbox"/> Environmental Assessment
<input checked="" type="checkbox"/> Kickoff Meeting Minutes	<input type="checkbox"/> Subsurface Utility Engineering Test Pit Report	<input type="checkbox"/> Finding of No Significant Impact (FONSI)
3.2 Roadway Engineering	<input checked="" type="checkbox"/> Updated Base Plans (With Identified Conflicts)	<input type="checkbox"/> Environmental Commitments/Plan Sheets
<input type="checkbox"/> Control Survey Report	<input type="checkbox"/> Railroad Diagnostic Team Meeting Memo of Record	<input type="checkbox"/> Historic Sites Council Concurrence
<input checked="" type="checkbox"/> Topographic Survey	3.6 Quality Management	3.9 Preliminary Engineering Report
<input checked="" type="checkbox"/> Base Maps	<input checked="" type="checkbox"/> PE Quality Management Certification	<input checked="" type="checkbox"/> Approved Project Plan
<input type="checkbox"/> Preliminary Drainage Design Report	3.7 Communications	<input checked="" type="checkbox"/> Construction Cost Estimate
<input type="checkbox"/> Traffic Engineering Facility Location	<input checked="" type="checkbox"/> Design Communications Report	<input type="checkbox"/> Design Exception Report
<input checked="" type="checkbox"/> Constructability and Maintenance Review Comments	3.8 Environmental Documents	<input checked="" type="checkbox"/> Final Design Scope Statement
<input type="checkbox"/> Preliminary ITS Facility Design Plans	<i>Technical Environmental Studies</i>	<input checked="" type="checkbox"/> Updated Project Management Plan
<input checked="" type="checkbox"/> Updated Preliminary Detour and Construction Staging Plans	<input type="checkbox"/> Air Study	<input type="checkbox"/> Project Management Plan (Major Projects)
<input checked="" type="checkbox"/> Preliminary Roadway Plans	<input type="checkbox"/> Noise Study	<input checked="" type="checkbox"/> Alternatives Analysis Report
<input checked="" type="checkbox"/> Pavement Design Data	<input type="checkbox"/> Ecology Study	<input checked="" type="checkbox"/> Core Group Meeting Minutes
<input checked="" type="checkbox"/> Pavement Recommendation	<input type="checkbox"/> Hazardous Waste Study	<input checked="" type="checkbox"/> Final Design Public Involvement Action Plan
<input type="checkbox"/> Lighting Warrant Analysis Report	<input type="checkbox"/> Socio-Economic Study	<input checked="" type="checkbox"/> Complete Streets Checklist
<input type="checkbox"/> Initial Deforestation/ Reforestation Plan	<input type="checkbox"/> Cultural Resources Study	3.10 Contracts
<input checked="" type="checkbox"/> Preliminary Construction Schedule	<i>Section 4(f)</i>	<i>Final Design Addendum</i>
3.3 Structural Engineering	<input type="checkbox"/> Individual Section 4(f) Evaluation	<input checked="" type="checkbox"/> Final Design Designer Fee Proposal
<input type="checkbox"/> Structural Design Recommendation Summary	<input type="checkbox"/> Programmatic Section 4(f) Evaluation	
<input checked="" type="checkbox"/> Preliminary Geotechnical Engineering Report	<input type="checkbox"/> De Minimis Section 4(f) Evaluation	<input checked="" type="checkbox"/> Final Invoice
3.4 Right of Way and Access	<input type="checkbox"/> Net Benefit Section 4(f) Evaluation	<i>Final Design Independent Cost Estimate</i>
<input type="checkbox"/> Project Access Plan		<input checked="" type="checkbox"/> Summary Independent Cost Estimate Report
<input type="checkbox"/> Access Impact Summary	<input type="checkbox"/> Executive Order 215 (E.O. 215) Document	
<input checked="" type="checkbox"/> Right of Way Report		<input checked="" type="checkbox"/> Final Design Schedule
<input checked="" type="checkbox"/> Right of Way Impact Plan	<input type="checkbox"/> Environmental Impact Statement	<input checked="" type="checkbox"/> Final Design Budget
<input checked="" type="checkbox"/> Initial Right of Way Estimate	<input type="checkbox"/> Record of Decision (ROD)	<input checked="" type="checkbox"/> Notice of Authorization
3.5 Utility Engineering		3.11 Preliminary Engineering Approvals
<input checked="" type="checkbox"/> Utility Base Plans	<input checked="" type="checkbox"/> Categorical Exclusion Document	<input checked="" type="checkbox"/> Capital Program Screening Committee Recommendation
<input checked="" type="checkbox"/> Utility Letter No. 2	<input type="checkbox"/> Certified Categorical Exclusion Document	<input checked="" type="checkbox"/> Capital Program Committee Approval
<input checked="" type="checkbox"/> Utility Engineering Funding Authorization		<input checked="" type="checkbox"/> FHWA Approval



Preliminary Engineering

SUMMARY OF COMMITMENTS

List any commitments made to the public, local officials or other government agencies:

Project Commitment	Unit Requesting the Commitment	Unit Fulfilling Commitment	Special Needs

List any anticipated commitments that may be made:



Preliminary Engineering

APPROVAL		
Name	Title	Date Approved
	Project Manager Division of Project Management	
	Program Manager Division of Project Management	
	Director Division of Project Management	
	Manager Bureau of Landscape Architecture and Environmental Solutions	



Preliminary Engineering

PRELIMINARY ENGINEERING SCOPE OF WORK

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NOTE: The PE Designer will perform the tasks associated with PE as so marked, in preparation for Final Design. The Project Manager will review and negotiate the proposal, execute the Agreement and instruct the designer to begin work. The Project Manager will direct the proposed project through PE.



Preliminary Engineering

Right of Way

Activity No.	Activity Name	Execute	Responsible Unit	Comments
3110	Prepare ROW Report	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Designer	To construct rockfall mitigation measures in Area D, particularly near the Devils Tea Table, may require access through private property.
3115	Initiate ROW Impact Plan	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Designer	
3120	Hold ROW Kickoff Meeting	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> ROW <input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> Designer	
3125	Prepare Initial ROW Estimate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> ROW <input checked="" type="checkbox"/> DPM	

Total Number of Parcels: 1

1. Fee Parcel /Easements

Number of fee parcels (partial):	0	Number of fee parcels (entire):	0	Number of residential relocations:	0
Number of permanent easements (E parcels):	0	Number of temporary easements:	1	Number of commercial relocations:	0

2. List any known or potential environmental problems or issues that may impact Right of Way processes or decisions (cross reference with the Environmental section of the Scope Statement document: _____
3. List any environmentally sensitive parcels (ESPs), underground storage tanks, freshwater wetlands: _____
4. Identify Riparian Parcels (currently flowed), Easements and/or Green Acres Diversions by contacting NJDEP for any Right of Way to be acquired: _____
5. Identify parcels that can be eliminated by design change modifications and attempts to mitigate damages suffered by the remaining properties. _____
6. Decision to expand parcel for further use or contingency. _____
7. List the number of Non Real Estate Engineering (NRE) parcels. _____



Preliminary Engineering

8. List any commitments and conditions made to the public or to private property owners that may impact Right of Way processes or decisions: _____

9. Green Acres mitigation method: Dollar Reimbursement Property Replacement

ADDITIONAL INPUT

This section has been provided for the CD designer and the functional units to state any assumptions, to clarify and customize standard activities, and to add important information. Please be clear and concise. Provide your unit's contact person and number.

Examples of information for this section include number and type of parcels, known environmental problems, riparian parcels, public commitments, etc.

Given the height of the slope for Area D, the top of the slope may need to be accessed from above in order to implement rockfall mitigation measures. Access from above would likely require the contractor to have access through private property, which could result in right-of-way involvement.



Preliminary Engineering

Access

Activity No.	Activity Name	Execute	Responsible Unit	Comments
3105	Prepare Project Access Plan and Access Impact Summary	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> DPM <input type="checkbox"/> Designer <input type="checkbox"/> OAD	

Number of Adjustments:	0	Number of Modifications:	0	Number of Revocations:	0
-------------------------------	---	---------------------------------	---	-------------------------------	---

1. Note any pending agreements or access applications within the proposed project limits: _____
2. Are proposed left turn lanes in compliance with the Access Level? Yes No
3. Is the proposed Typical Section of the roadway in compliance with the Highway Access Code? Yes No
4. Total No. of Driveways impacted: 0
5. Any commercial properties with access modifications and/or Revocations that have potential impacts to site parking slots, circulations and operation of business? Yes No
If yes, provide details of impact with Block and Lot Nos. _____
6. Any commercial properties that will require necessary assistance in the establishment of the alternative access (as per NJAC 16:47-4.33)? Yes No
If yes, provide details of assistance with Block and Lot Nos. _____
7. Any commercial properties that will require the preparation of an Access Impact Assistance (AIA) report? Yes No
If yes, provide Block and Lot Nos. _____

ADDITIONAL INPUT

This section has been provided for the CD designer and the functional units to state any assumptions, to clarify and customize standard activities, and to add important information. Please be clear and concise. Provide your unit's contact person and number.

Examples of information for this section include number of driveways impacted, pending agreements or major access permit applications, driveway modifications causing circulation issues, alternative access issues, Access Impact Assistance issues, etc.



Preliminary Engineering

**Drainage Management
Regional Maintenance
Hydrology and Hydraulics**

Activity No.	Activity Name	Execute	Responsible Unit	Comments
3085	Prepare Preliminary Drainage Design	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> DPM <input type="checkbox"/> Designer	

Drainage Management

1. Identify all existing drainage deficiencies as per the Drainage Management System: _____

Regional Maintenance

2. Identify all existing drainage deficiencies (undersized system, excessive spread into travel lanes, insufficient inlets, flooding at low points, etc.): _____

Hydrology and Hydraulics

3. List proposed improvements including outfalls (especially tidal): _____

4. Is compliance with Stormwater Management rules triggered (> 1/4 acre new impervious surface, or 1 acre disturbance)? Yes No

5. Identify all NJDEP permits required: Potential permits include: NJDEP Freshwater Wetlands and NJDEP Flood Hazard Area

6. List proposed structural Best Management Practices (BMP) (e.g., Bioretention System, Constructed Wetlands, extended detention basins, infiltration system, wet ponds, porous pavement): _____

7. List proposed nonstructural BMP (e.g., Vegetation and Landscaping, Minimize Site Disturbance, Impervious Area Management, and Time of Concentration Modifications): _____

8. Identify drainage outflow owner: _____ Will property rights need to be acquired? Yes No

ADDITIONAL INPUT

This section has been provided for the CD designer and the functional units to state any assumptions, to clarify and customize standard activities, and to add important information. Please be clear and concise. Provide your unit's contact person and number.

Examples of information for this section include drainage deficiencies, new/improved outfalls, storm water management rules, permits, Best Management Practices (structural and non-structural), easements/right-of-way, etc.



Preliminary Engineering

Landscape

Activity No.	Activity Name	Execute	Responsible Unit	Comments
3010	Determine and Calculate Deforested Areas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	The environmental screening states "While more than 1/2 acre of tree canopy will be impacted, this project will be exempt due to public safety reasons."

1. List any landscape architecture related commitments such as:

a. Wetland or Riparian Mitigation Planting:	
b. Historic Site commitments	
c. Vegetative Screens or Buffers	
d. Noise Barrier Aesthetics:	
e. Architectural Treatments on Bridge Retaining Walls:	
f. Tree Removal Mitigation:	
g. Urban Design Work (paving, streetscapes, etc.):	
h. Aesthetic plantings:	
i. Existing tree preservation and protection:	
j. Reforestation Application:	

2. Anticipated visualization work for in-house and public information meetings:

a. Rendered Plans:	
b. 2D computer generated before & after photographs:	
c. 3D computer generated mode:	



Preliminary Engineering

ADDITIONAL INPUT

This section has been provided for the CD designer and the functional units to state any assumptions, to clarify and customize standard activities, and to add important information. Please be clear and concise. Provide your unit's contact person and number.

Examples of information for this section include screens or buffers, aesthetic plantings, mitigation plantings, reforestation, etc.

While more than 1/2 acre of tree canopy will be impacted, this project will be exempt due to public safety reasons.



Preliminary Engineering

Environmental

Activity No.	Activity Name	Execute	Responsible Unit	Comments
3300	Initiate Cultural Resources (Section 106) Process	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3305	Conduct CR Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3310	Prepare CR Survey Report	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3315	Review CR Survey Report	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES	
3320	Address Comments on CR Survey Report	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3325	Approve CR Survey Report	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES	
3330	Obtain SHPO Concurrence (No Resources, No Effect, No Adverse Effect)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> SHPO	
3335	Prepare Draft MOA (Adverse Effect Only)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3340	Obtain SHPO Concurrence (No Adverse Effect with Conditions or Adverse Effect)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> SHPO	
3345	Obtain FHWA Approval of CR Survey Report	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> FHWA <input type="checkbox"/> BLAES	
3350	Prepare Adverse Effect Documentation & Submit to FHWA (Adverse Effect Only)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES	
3355	FHWA Sends Adverse Effect Documentation to ACHP	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> FHWA	
3360	ACHP Reviews and Accepts or Declines Participation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> ACHP	
3365	Resolve Adverse Effects	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> FHWA	
3370	Circulate MOA for Comment	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES	



Preliminary Engineering

3375	Prepare Final MOA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES	
3380	Execute the MOA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> DPM <input type="checkbox"/> FHWA <input type="checkbox"/> ACHP <input type="checkbox"/> SHPO	
3390	Submit Historic Sites Council Application	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer <input type="checkbox"/> SHPO	
3395	Present to Historic Sites Council	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Historic Sites Council	
3400	Inform Jurisdictional Agency Regarding Programmatic Section 4(f) Impacts	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES	
3405	Receive Concurrence Regarding Programmatic Section 4(f) Impacts	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Jurisdictional Agencies	
3410	Prepare Programmatic Section 4(f) Evaluation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3420	Prepare De Minimis Section 4(f) Evaluation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3425	Prepare Programmatic Net Benefit Section 4(f) Evaluation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3430	NJDOT Reviews Programmatic Section 4(f) Evaluation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES	
3435	Revise Programmatic Section 4(f) Evaluation (NJDOT Comments)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3440	FHWA Reviews Programmatic Section 4(f) Evaluation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> FHWA	
3445	Revise Programmatic Section 4(f) Evaluation (FHWA Comments)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer <input type="checkbox"/> FHWA	
3450	FHWA Approves Programmatic Section 4(f) Evaluation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> FHWA	
3460	Inform Jurisdictional Agency Regarding Draft Individual Section 4(f) Impacts	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES	
3465	Receive Concurrence Regarding Draft Individual Section 4(f) Impacts	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Jurisdictional Agencies	



Preliminary Engineering

3470	Prepare Draft Individual Section 4(f) Evaluation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3475	NJDOT Reviews Draft Individual Section 4(f) Evaluation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES	
3480	Revise Draft Individual Section 4(f) Evaluation (NJDOT Comments)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3485	FHWA Reviews and Comments on Draft Individual Section 4(f) Evaluation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> FHWA	
3490	Revise Draft Individual Section 4(f) Evaluation (FHWA Comments)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer <input type="checkbox"/> FHWA	
3495	Conduct Draft Individual Section 4(f) Legal Sufficiency Review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer <input type="checkbox"/> FHWA	
3500	Circulate Draft Individual Section 4(f) Evaluation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3505	Prepare Final Individual Section 4(f) Evaluation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3510	FHWA Approves Final Individual Section 4(f) Evaluation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> FHWA	
3520	Inform Green Acres Program and Local Officials	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES	
3525	Receive Concurrence on Green Acres Impacts	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Green Acres Prog. <input type="checkbox"/> Local Officials	
3530	Hold Green Acres Pre-Application Meeting	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3535	Negotiate Green Acres Compensation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer <input type="checkbox"/> Green Acres Prog. <input type="checkbox"/> Local Officials <input type="checkbox"/> ROW Tech. Support	
3540	Identify Alternatives (EA Only)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> DPM <input type="checkbox"/> Designer	
3545	Prepare EA or EA/4(f)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Designer	
3550	NJDOT Reviews EA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES	



Preliminary Engineering

3555	Revise EA (NJDOT Comments)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Designer	
3560	FHWA Reviews EA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> FHWA	
3565	Revise EA (FHWA Comments)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3570	FHWA Approves EA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> FHWA	
3575	Conduct Draft Individual Section 4(f) Legal Sufficiency Review (EA)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer <input type="checkbox"/> FHWA	
3580	Circulate EA	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3585	Hold EA Public Hearing and Comment Period	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer <input type="checkbox"/> CCR	
3590	Address EA Comments	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer <input type="checkbox"/> FHWA	
3595	Submit FONSI Request Package	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES	
3600	FHWA Approves Final Individual Section 4(f) (EA)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> FHWA	
3605	FHWA Reviews and Issues FONSI	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> FHWA	
3610	Publish Notice of FONSI Availability	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer <input type="checkbox"/> CCR	
3620	Publish Notice of Intent in Federal Register (EIS Only)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> FHWA	
3625	Invite Cooperating Agencies (EIS Only)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> FHWA	
3630	Hold NEPA Scope Meeting (EIS Only)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> DPM <input type="checkbox"/> Designer <input type="checkbox"/> FHWA	
3635	Prepare Alternatives Analysis Report	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> DPM <input type="checkbox"/> Designer	
3640	Prepare DEIS or DEIS/4(f)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Designer	



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3645	NJDOT Reviews DEIS	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES
3650	Revise DEIS (NJDOT Comments)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Designer
3655	FHWA Reviews DEIS	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> FHWA
3660	Revise DEIS (FHWA Comments)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer
3665	FHWA Approves DEIS to Circulate	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> FHWA
3670	Publish Notice of Availability in Federal Register (DEIS)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> EPA
3675	Circulate DEIS	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer
3680	Hold EIS Public Hearing and Comment Period	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> CCR <input type="checkbox"/> Designer
3685	Address Public and Agency Comments	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer
3690	Select Final Alternative	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> DPM <input type="checkbox"/> FHWA <input type="checkbox"/> SME's
3215	Present to Capital Program Screening Committee	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM
3220	Capital Program Committee Approves Final Alternative	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> CPC
3700	Prepare and Submit FEIS	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer
3705	FHWA Reviews and Comments on FEIS	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> FHWA
3710	Address FEIS Comments	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer
3715	FHWA Reviews FEIS for Legal Sufficiency and Approval	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer <input type="checkbox"/> FHWA
3720	Publish EIS Notice of Availability in Newspaper	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> CCR
3725	Publish FEIS Notice in Federal Register	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> EPA



Preliminary Engineering

3730	FHWA Publishes ROD in Federal Register	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> FHWA	
3735	Circulate FEIS	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3740	Conduct Air Quality Study	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3745	Prepare Air Quality TES	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3750	NJDOT Reviews Air Quality TES	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES	
3755	Address Air Quality TES Comments	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3760	Approve Air Quality TES	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> FHWA <input type="checkbox"/> BLAES	
3765	Conduct Ecology Study	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3770	Prepare Ecology TES	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3775	NJDOT Reviews Ecology TES	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES	
3780	Address Ecology TES Comments	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3785	Approve Ecology TES	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES	
3790	Conduct Socio-Economic Study	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3795	Prepare Socio-Economic TES	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3800	NJDOT Reviews Socio-Economic TES	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES	
3805	Address Socio-Economic TES Comments	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3810	Approve Socio-Economic TES	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES	
3815	Conduct Noise Study	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3820	Prepare Noise TES	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	



Preliminary Engineering

3825	NJDOT Reviews Noise TES	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES	
3830	Address Noise TES Comments	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3835	Approve Noise TES	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> FHWA	
3840	Conduct Hazardous Waste Study	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3845	Prepare Hazardous Waste TES	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3850	NJDOT Reviews Hazardous Waste TES	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES	
3855	Address Hazardous Waste TES Comments	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3860	Approve Hazardous Waste TES	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES	
3865	Hold Public Information Center	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> CCR <input type="checkbox"/> Designer <input type="checkbox"/> DPM	
3870	Prepare CED	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> BLAES <input checked="" type="checkbox"/> Designer	
3875	NJDOT Reviews and Approves CED	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> BLAES	
3880	Initiate Environmental Technical Studies	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES	
3890	Prepare Certified Categorical Exclusion (CCED) Document	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES	
3900	Review and Approve Certified Categorical Exclusion Document (CCED)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES	
3910	Prepare Draft EO 215 Document	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3920	NJDOT Reviews Draft EO 215 Document	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES	
3925	Revise Draft EO 215 Document (NJDOT Comments)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3930	NJDEP Reviews EO 215 Document	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> NJDEP	



Preliminary Engineering

3940	Address NJDEP Comments and Prepare Final EO 215 Document	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> BLAES <input type="checkbox"/> Designer	
3945	NJDEP Approves EO 215 Document	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> NJDEP	

Anticipated Environmental Document: CCED CED EA EIS EO 215

Total Number of Permits: unknown at this time

1. List any environmental impacts and/or issues: See additional input for environmental concerns from the Environmental Screening Report.
2. List any environmental commitments (made in approved environmental documents, through Memoranda of Agreement with environmental agencies, other commitments made to the public, local officials or other government agencies such as 4f, Section 106 (historic architecture, archaeology), air, noise, hazardous waste and ecology: _____)
3. Check the environmental clearances or permits required on the project:

Federal

- | | | |
|---|---|--|
| <input type="checkbox"/> U.S. Coast Guard (Bridge) | <input type="checkbox"/> USACOE Section 10 (Navigable Waters) | <input type="checkbox"/> USDOA Forms AS-1006 |
| <input type="checkbox"/> USACOE Section 404 (Individual/Nationwide) discharge of fill | <input type="checkbox"/> USACOE Section 9 (Dam or Dike) | <input type="checkbox"/> Section 7 Endangered Species Consultation |
| | <input type="checkbox"/> National (or State) Wild & Scenic Rivers | <input type="checkbox"/> NMFS Essential Fish Habitat Study |

State

- | | | | |
|---|---|--|---|
| <input type="checkbox"/> CAFRA | <input type="checkbox"/> Hazardous Waste Site Investigation (SI/RI) | <input type="checkbox"/> NJDEP Tidal Wetlands | <input type="checkbox"/> NJDEP Pollutant Discharge |
| <input type="checkbox"/> NJDEP Water Lowering | <input type="checkbox"/> HazWaste Remedial Action Work plan | <input type="checkbox"/> NJDEP Waterfront Development | <input checked="" type="checkbox"/> NJDEP Flood Hazard Area |
| <input type="checkbox"/> NJDEP Riparian | <input type="checkbox"/> NJDEP Sanitary Facilities | <input checked="" type="checkbox"/> NJDEP Freshwater Wetlands | <input type="checkbox"/> NJDEP Water Quality Certificate |
| | | <input type="checkbox"/> NJDEP NJPDES Stormwater Construction GP (RFA) | |

Other

- | | | |
|---|--|---|
| <input type="checkbox"/> Delaware River Basin Commission | <input type="checkbox"/> Hackensack Meadowlands Commission | <input type="checkbox"/> Highlands Commission |
| <input checked="" type="checkbox"/> Delaware & Raritan Canal Commission | <input type="checkbox"/> Pinelands Commission | <input type="checkbox"/> State Agriculture Development Commission |

ADDITIONAL INPUT

This section has been provided for the CD designer and the functional units to state any assumptions, to clarify and customize standard activities, and to add important information. Please be clear and concise. Provide your unit's contact person and number.

Examples of information for this section include a list of the anticipated NEPA document, type of permits anticipated, anticipated environmental impacts and environmental commitments made in CD if any, etc.

The D&R Canal State Park runs the length of the proposed project. This State-owned (Parks and Forestry) Open Space should be avoided if at all possible. Coordination with Parks and Forestry and NJDEP Green Acres will be required if impacts occur to this Park.



Preliminary Engineering

For the sections between MP 27.4-27.65 there is a Natural Heritage Priority Site (Byram) in the area. There is one special concern plant species plus historically documented plant species in this area. Coordination will be necessary if impacts to this area are proposed. There are some wetlands west of Route 29 towards the north end of this site.

For the section between MP 27.78-28.48, there are wetlands west of Route 29 for most of the site.

For the section between MP 29.85-30.45, there is another Natural Heritage Priority Site (Devils Tea Table). There are known occurrences of endangered and special concern plant species on this site. Coordination will be necessary if impacts to this area are proposed. There are some wetlands west of Route 29 near Warsaw Road.

The whole project is in a Wild and Scenic River corridor. Coordination will be required with the National Park Service and/or the Local Government. State Endangered Bald Eagle, State Threatened Wood Turtle, State Threatened Yellow Lampmussel, Federally Threatened Box Turtle, Federally Proposed Endangered northern long-eared bat, Federally Endangered Indiana Bat, and Federally Endangered Shortnose Sturgeon all exist on or near the proposed project. Coordination will be required.

Due to the presence of threatened or endangered species that are critically dependent on the Delaware River for survival, there is a 150' Riparian Zone. Impacts to the riparian zone, such as vegetation removal, will trigger the need for a FHA permit.



Preliminary Engineering

Quality Management Services

Activity No.	Activity Name	Execute	Responsible Unit	Comments
		<input type="checkbox"/> Yes <input type="checkbox"/> No		

- Quality Management Services Reviewed? Yes No
- Value Analysis to be Performed? Yes (if total cost of project >\$20 million) No
- Combined Estimated Cost of Construction, ROW, and Utilities: <\$3 million \$3-5 million \$5-\$15 million >\$15 million
- Lane Occupancy Charges and Road User Costs to be completed? Yes No

ADDITIONAL INPUT

This section has been provided for the CD designer and the functional units to state any assumptions, to clarify and customize standard activities, and to add important information. Please be clear and concise. Provide your unit's contact person and number.

Examples of information for this section include QMS review, lane occupancy charges/road user cost information, etc.



Preliminary Engineering

Utilities

Activity No.	Activity Name	Execute	Responsible Unit	Comments
3035	Prepare Utility Base Plans	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Designer	Only necessary if the project impacts utilities.
3040	Establish Utility Engineering Funding	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> Designer <input checked="" type="checkbox"/> Program Coord.	Only necessary if the project impacts utilities.
3045	Send Letter No. 2 and Plans to Utility Company	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> Designer <input checked="" type="checkbox"/> Utility Co.	Only necessary if the project impacts utilities.
3050	Prepare Utility Agreement	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> Designer	Only necessary if the project impacts utilities.
3055	Update Base Plans and Identify Conflicts	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> Designer <input checked="" type="checkbox"/> Utility Co.	Only necessary if the project impacts utilities.
3060	Execute Utility Agreement	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> Utility Co. <input checked="" type="checkbox"/> DAG	Only necessary if the project impacts utilities.
3080	Conduct Subsurface Utility Engineering (SUE)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> DPM <input type="checkbox"/> Designer <input type="checkbox"/> SUE Contractor <input type="checkbox"/> Utility Co.	
3985	Update Utility Risk Assessment Plan	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> Designer	Only necessary if the project impacts utilities.

Total Number of Utility Companies: 2

Utility Type	Utility Company	Size (Units of Measure)	Location (aerial/underground)
Gas		Pipe	
Electric	Jersey Central Power & Light	Volts	
Cable		Pairs/ Strands	
Telephone	Century Link	Pairs/ Strands	
Water		Pipe	
Sewer		Pipe	
Fiber-Optic (non-Department)			
Other:			
Other:			



Other:			
Other:			

1. Identify if the Utility Discover and Verification requires sub-surface utility exploration: no
2. Is a SUE (Subsurface Utility Engineering) Consultant required? Yes No
3. Identify Potential Conflicts: none anticipated
4. Identify Temporary Relocations that are needed during construction: none
5. Number of poles? n/a
6. Number of guy wires on existing poles? n/a
7. Are there cell towers or substations? n/a
8. Can utility relocations be avoided or performed in advance of the project? n/a
9. Can utility design/construction be performed by designer/contractor? n/a
10. Can ROW needed for utilities be identified? none anticipated

ADDITIONAL INPUT

This section has been provided for the CD designer and the functional units to state any assumptions, to clarify and customize standard activities, and to add important information. Please be clear and concise. Provide your unit's contact person and number.

Examples of information for this section include location of cell towers, location/presence of fiber optic lines, etc.

HNTB prepared and distributed Utility Letter No. 1 during CD, which requests verification of existing and/or proposed facilities within the project limits and the name, address, and telephone number of the appropriate contact for those utility companies that have facilities within the project limits.



Preliminary Engineering

Jurisdiction

Activity No.	Activity Name	Execute	Responsible Unit	Comments
		<input type="checkbox"/> Yes <input type="checkbox"/> No		

Total Number of Maps: 0 Total Number of Agreements: 0

Are there streetscape or esthetic items intended for this project? Yes No

If yes, has a resolution of support been acquired for jurisdictional assignment? Yes No NA

ADDITIONAL INPUT

This section has been provided for the CD designer and the functional units to state any assumptions, to clarify and customize standard activities, and to add important information. Please be clear and concise. Provide your unit's contact person and number.

Examples of information for this section include the anticipated number of maps and agreements, presence of streetscape or aesthetic treatments, local approval of such, etc.

No changes to existing Jurisdictional Limit maps are anticipated.



Preliminary Engineering

Geometrics & Roadway

Activity No.	Activity Name	Execute	Responsible Unit	Comments
3030	Prepare Horizontal & Vertical Geometry	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> Designer	
3070	Prepare Preliminary Roadway Plans	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> Designer <input checked="" type="checkbox"/> SME's	
3135	Prepare Construction Cost Estimate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> Designer	
3150	Prepare Design Exception Report	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> DPM <input type="checkbox"/> Designer <input type="checkbox"/> QMS <input type="checkbox"/> State Trans. Engr. <input type="checkbox"/> FHWA	
3165	Finalize Project Plan	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> Designer	

Construction Plans/Estimated Number of Sheets

Roadway and Bridges

- | | | |
|--|---|--|
| <input type="checkbox"/> Key Map | <input type="checkbox"/> Grades | <input type="checkbox"/> Method of Cross Sections |
| <input type="checkbox"/> Estimate-Distribution of Quantities | <input type="checkbox"/> Traffic Control and Staging Plans | <input type="checkbox"/> Cross Sections |
| <input type="checkbox"/> Typical Sections | <input type="checkbox"/> Traffic Control Plans | <input type="checkbox"/> Alternate Retaining Wall System |
| <input type="checkbox"/> Plan Sheet Index | <input type="checkbox"/> ITS Plans | <input type="checkbox"/> Estimate of Quantities – Bridge |
| <input type="checkbox"/> Construction Plans | <input type="checkbox"/> Electrical Details | <input type="checkbox"/> Earthwork Summary |
| <input type="checkbox"/> Environmental Plans | <input type="checkbox"/> Traffic Signal Plans | <input type="checkbox"/> Earthwork Chart Sheet |
| <input type="checkbox"/> Profiles | <input type="checkbox"/> Highway Lighting Plans | <input type="checkbox"/> Non-standard Roadway Construction Details |
| <input type="checkbox"/> Ties | <input type="checkbox"/> Landscape Plans | <input type="checkbox"/> Non-standard Bridge Construction Details |
| | <input type="checkbox"/> Traffic Signing and Striping Plans | <input type="checkbox"/> Drainage Plans |

Right of Way Documents

- | | | |
|---|--|---|
| <input type="checkbox"/> Entire Tract Map | <input type="checkbox"/> Tabulation Sheets | <input type="checkbox"/> Individual Property Maps (IPM) |
| <input type="checkbox"/> General Property Parcel Maps | <input type="checkbox"/> Parcel Descriptions | <input type="checkbox"/> Alignment Sheets |

Other Documents

- | | | |
|--|---|--|
| <input type="checkbox"/> Jurisdictional Maps | <input type="checkbox"/> Utility Agreements Plans | <input type="checkbox"/> Railroad Crossing Element Plans |
| <input type="checkbox"/> Project Specific Specifications | | |

Rt 29 Rockfall Mitigation, Kingwood Twp



NJDOT Scope Statement Preliminary Engineering

Are there any additional documents? Yes No

Please identify any additional documents: _____

1. Existing Roadway(s):

	Roadway No. 1	Roadway No. 2	Roadway No. 3	Roadway No. 4
Roadway Name:	Route 29			
Posted Speed(s):	50 mph			
Highway Classification:	Rural Minor Arterial			
Significance (local or regional):				
No. of Interchanges:	0			
Traffic Volumes:				
Design Speeds:	55 mph			
Development Class:				
No. of Traffic Signals:	0			
No. of Intersections:				

2. Typical Section(s):

	Typical Section No. 1	Typical Section No. 2	Typical Section No. 3	Typical Section No. 4
Right of Way width:	120'-150' & varies			
Number of Lanes:	2			
Lane width & cross slope:	2% & varies			
Shoulder width & cross slope:	6'-10', 4%			
Median width:	n/a			
Sidewalk/border width:	varies			
Median description and the overall roadway width:	no median			



Preliminary Engineering

3. Intersection/Interchange (describe the existing intersection and/or interchanges including turning and auxiliary lanes.): no turning lanes or auxiliary lanes within the project limits

4. Existing Deficiencies (provide an overview of the existing deficiencies. Geometric: Substandard horizontal and vertical sight distance, insufficient sight triangle, substandard vertical clearance, substandard or no shoulders, acceleration/deceleration lanes, etc. Safety Issues: check crash data for indicators of specific problems. Substandard/nonexistent guiderail, attenuators, pavement condition, skid resistance, median, etc. Note on substandard guiderail: the project limits should be extended to include upgrading any existing substandard guiderail run that extends beyond the proposed work limits as required by the Design Manual.):

5. Proposed Improvements (provide a brief narrative of the proposed improvements and how they address the identified deficiencies. Note changes to be made to profiles, alignment, guiderail, and typical section):

6. Bicycle/Pedestrian Compatible? [X] Yes [] No

If no, please explain:

7. Design Exception(s):

- a. Is a Design Exception required? [] Yes [X] No
b. List substandard features that are to remain and require Design Exception:
c. Has the Design Exception Crash Analysis been received from the Bureau of Safety Programs? [] Yes [X] No
d. Has the Design Exception Crash Data for each controlling substandard design element been requested from the Bureau of Safety Programs? [] Yes [X] No
e. Has FHWA provided preliminary concurrence on the Design Exceptions decisions (a) and (b) above? [] Yes [X] No
f. Has Quality Management Services provided Reasonable Assurance on the Design Exceptions decisions (a) and (b) above? [] Yes [X] No

8. List any commitments made to the public, local officials or other government agencies:

ADDITIONAL INPUT

This section has been provided for the CD designer and the functional units to state any assumptions, to clarify and customize standard activities, and to add important information. Please be clear and concise. Provide your unit's contact person and number.

Examples of information for this section include a discussion of substandard design elements, design exceptions, and perhaps a quick description of the proposed geometry if it is unusual, commitments made to the community, etc.

According to the 2012 Design Exception Manual, improvement projects, including rockfall mitigation, are exempt from the design exception procedure.



Preliminary Engineering

Pavement

Activity No.	Activity Name	Execute	Responsible Unit	Comments
3960	Obtain Pavement Design Data	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> Designer	
3970	Collect Existing Pavement and Subgrade Soil Information	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Pvmt. Design Unit <input type="checkbox"/> Designer	
3975	Conduct Pavement Testing Program	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Pvmt. Design Unit <input type="checkbox"/> Designer	
3980	Prepare Pavement Recommendation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Pvmt. Design Unit <input checked="" type="checkbox"/> Designer	

ADDITIONAL INPUT

This section has been provided for the CD designer and the functional units to state any assumptions, to clarify and customize standard activities, and to add important information. Please be clear and concise. Provide your unit's contact person and number.

Examples of information for this section include evidence of subsurface drainage issues, settlement problems, stability problems, etc.

In the event that rockfall hazard mitigation measures damage the existing pavement, pavement repair work will be included in this project.



Preliminary Engineering

Structures

Activity No.	Activity Name	Execute	Responsible Unit	Comments
3100	Prepare Structural Design Recommendation Summary	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Designer <input type="checkbox"/> SME's	

Total Number of New Bridges:	0	Total Number of New Spans:	0
Total Number of Rehab Bridges:	0	Total Number of Rehab Spans:	0
Total Number of Replacement Bridges:	0	Total Number of Replacement Spans:	0

1. Condition of existing bridge(s):

	Bridge No. 1	Bridge No. 2	Bridge No. 3	Bridge No. 4
a. NJDOT Structure Number:				
b. Year Built:				
c. Date/type of any major modifications:				
d. Type & material of superstructure:				
e. Type and material of substructure:				
f. Feature that is spanned:				
g. Type of roadway it carries:				
h. Vertical Clearance of structure if it spans a roadway or railroad:				
i. Number of Spans:				
j. Length of Structure:				
k. Width of Structure:				
l. Horizontal Clearance of the pier/abutment with respect to the riding lane:				
m. Typical Section (number of lanes, width and cross slope and width of each sidewalk):				



	Bridge No. 1	Bridge No. 2	Bridge No. 3	Bridge No. 4
n. Parapet railing Type:				
o. Identify the structural deficiencies:				
p. Bridges over waterways (Identify scouring evaluation, bridge opening capacity, and frequency of storm):				

2. Proposed Bridge(s)/Bridge Improvements:

	Bridge No. 1	Bridge No. 2	Bridge No. 3	Bridge No. 4
a. Number of spans:				
b. Identify the type of maintenance of traffic that will be used (staging or detour):				
c. Identify the changes to the typical section of the existing structure:				
d. Vertical Clearance of structure if it spans a roadway or railroad:				
e. Length of Structure:				
f. Width of Structure:				
g. Horizontal Clearance of the pier/abutment with respect to the riding lane:				
h. Typical Section (number of lanes, width and cross slope and width of each sidewalk):				
i. Parapet railing Type:				
j. Identify the structural deficiencies:				
k. Coast Guard Permit Required:				

3. Are the minimum vertical clearance requirements over waterways, roadways, railroads met? Yes No

a. If no, please explain? _____

4. List other substandard features of proposed bridge: _____

5. Other Existing Structure(s):

a. Identify existing minor structures (Noise barriers, Retaining Walls (cast in place or alternate system), Gabions, High Tower Lighting foundations, Pre-cast Culverts, Culvert extensions, Type and number of Overhead Sign Structures): _____



Preliminary Engineering

b. Specify type and number of each substandard feature: _____

6. Proposed Other Structure(s):

	Structure No. 1	Structure No. 2	Structure No. 3	Structure No. 4
a. Identify changes in the existing minor structure that are being improved:				
b. List substandard features to be included in the design exception:				
c. Length:				
d. Width:				
e. Number of spans/units:				

ADDITIONAL INPUT

This section has been provided for the CD designer and the functional units to state any assumptions, to clarify and customize standard activities, and to add important information. Please be clear and concise. Provide your unit's contact person and number.

Examples of information for this section include scour, unusual existing or proposed structural elements, clearances, substandard elements, design exceptions, etc.



Preliminary Engineering

Geotechnical

Activity No.	Activity Name	Execute	Responsible Unit	Comments
3095	Prepare Preliminary Geotechnical Engineering Report	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Geotechnical Engineering Unit <input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> Designer	

1. Is there evidence of subsurface drainage problems? _____
2. Is there evidence of settlement problems? _____
3. Is there evidence of stability problems? _____
4. Is there evidence of scour problems? _____
5. Are there existing soil-borings within the project limits? _____
6. Are there rock slopes/cuts located within the project limits? yes
 - a. Are the rock cuts listed in the Rockfall Hazard Rating System? yes
 - b. Do catchment areas need to be cleaned or modified? _____
 - c. Are there apparent safety problems with protruding rock, sight lines, rock-fall and substandard existing mitigation measures? yes
7. Alternate site exploration (test pits)? _____

ADDITIONAL INPUT

This section has been provided for the CD designer and the functional units to state any assumptions, to clarify and customize standard activities, and to add important information. Please be clear and concise. Provide your unit's contact person and number.

Examples of information for this section include rock slope issues, soil borings, scour, unusual existing or proposed structural elements, clearances, etc.

No structures will be replaced under this project.



Preliminary Engineering

Survey

Activity No.	Activity Name	Execute	Responsible Unit	Comments
3015	Prepare Control Survey Report	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> DPM <input type="checkbox"/> Designer <input type="checkbox"/> Geodetic Survey	Mapping was obtained by NJDOT during the CD phase.
3020	Conduct Topographic Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Designer <input type="checkbox"/> Geodetic Survey	Mapping was obtained by NJDOT during the CD phase.
3025	Prepare Base Maps	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> Designer <input checked="" type="checkbox"/> Geodetic Survey <input checked="" type="checkbox"/> CADD Support	

1. **Identify available mapping information (aerial/conventional methods):** aerial photography from NJDEP Bureau of Geographic Information Systems; LiDAR survey was performed during the CD phase
2. **How were the existing and proposed baselines established?** from as-built plans
3. **How were the existing and proposed ROW lines established?** from as-built plans
4. **How was the horizontal and vertical control established; and which existing monumentation was used?** n/a
5. **Is project in Tidal area?** Yes No
 If yes, then current mean high water elevation must be established in tidal water areas under Tidelands Bureau jurisdiction. _____
6. **Has NJDOT Regional Survey office been contacted regarding existing Control, and as-built plans within the project?** _____
7. **Compliance with MAP filing law required?** Yes No
8. **Has NJDOT Geodetic Survey been contacted regarding existing control within the project?** Yes No
9. **Does Primary Control exist within the project limits or immediately adjacent to the project?** Yes No
 If yes, what year was control established in? _____
 If no, will primary control be required? _____
10. **Will plans be developed from aerial photogrammetry or as-built plans and conventional survey?** LiDAR survey will be performed
11. **Geodetic Survey Services will be provided by:** In-House Consultant



Preliminary Engineering

ADDITIONAL INPUT

This section has been provided for the CD designer and the functional units to state any assumptions, to clarify and customize standard activities, and to add important information. Please be clear and concise. Provide your unit's contact person and number.

Examples of information for this section include base mapping obtained in CD, tidal issues, compliance with MAP filing laws, geodetic control issues, etc.



Preliminary Engineering

Railroads

Activity No.	Activity Name	Execute	Responsible Unit	Comments
3075	Hold Diagnostic Team Meeting	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Railroad Eng. & Safety Unit <input type="checkbox"/> DPM <input type="checkbox"/> Designer	

Railroads Affected
 Select RR Line Select RR Line 2 Select RR Line 3

1. **Grade Crossings Affected?** Yes No
 - a. **How many?** _____
2. **Is there sufficient overhead structure clearance?** Yes No
3. **Diagnostic Team Meeting Required:** Yes No
4. **Diagnostic Team Meeting Held:** _____ (DATE)

ADDITIONAL INPUT

This section has been provided for the CD designer and the functional units to state any assumptions, to clarify and customize standard activities, and to add important information. Please be clear and concise. Provide your unit's contact person and number.

Examples of information for this section include presence of at-grade crossings, overhead structure clearances, diagnostic team meetings, etc.

There are no railroads within the project limits.



Preliminary Engineering

Construction

Activity No.	Activity Name	Execute	Responsible Unit	Comments
3130	Update Preliminary Detour and Construction Staging Plans	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Designer <input checked="" type="checkbox"/> TSSE <input checked="" type="checkbox"/> SME's	
3145	Conduct Constructability and Maintenance Review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> Designer <input checked="" type="checkbox"/> Const. Mgmt.	

ADDITIONAL INPUT

This section has been provided for the CD designer and the functional units to state any assumptions, to clarify and customize standard activities, and to add important information. Please be clear and concise. Provide your unit's contact person and number.

Examples of information for this section include commitments made to local officials or other agencies, staging details, detour discussion, schedule constraints, utility conflicts, etc.

Traffic Operations provided a Lane Closure Hours memorandum, dated March 28, 2014, included in the CD Report Appendix F.



Preliminary Engineering

Traffic Signal and Safety Engineering

Activity No.	Activity Name	Execute	Responsible Unit	Comments
3090	Determine Traffic Engineering Facility Locations	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> TSSE <input type="checkbox"/> Designer	

Number of New Traffic Signals:	0	Number of Revised Traffic Signals:	0
New overhead signs and sign structures	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Revised overhead signs and sign structures	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
New Guide Signs	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Revised Guide Signs	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Number of Roundabouts:	0	Emergency signal pre-emption	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Revised Highway Lighting	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Temporary Lighting "for staging and diversion roadways"	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Raised Pavement Markers	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

- Maintenance of Traffic: (What type of maintenance of traffic will be used during construction, i.e. staging, detour, permanent lane closures, or diversion road): staging, alternating traffic, and off-peak detours
- Identify the number and location of temporary traffic signal(s) required during Staging or Detours: 0
- Is there an adequate corner ROW cutout for signal equipment installation? Yes No
- Identify if a new or revised traffic signal agreement is required: _____
- Identify overhead utility conflicts for traffic signals to be identified and resolved: _____



Preliminary Engineering

ADDITIONAL INPUT

This section has been provided for the CD designer and the functional units to state any assumptions, to clarify and customize standard activities, and to add important information. Please be clear and concise. Provide your unit's contact person and number.

Examples of information for this section include discussion of need for temporary signals, right-of-way constraints (related to traffic signal equipment), utility conflicts, etc.

Raised Pavement Markers (RPMs) should be replaced and/or installed as per CD-610 of the 2007 NJDOT Standard Construction Details. Rumble strips should be replaced and/or installed as per the NJDOT Roadway Design Manual.



Preliminary Engineering

Electrical

Activity No.	Activity Name	Execute	Responsible Unit	Comments
		<input type="checkbox"/> Yes <input type="checkbox"/> No		

1. Do any elements of this project scope require additional planned maintenance activities that would necessitate an increase in personnel or equipment resources? Yes No
 If yes, provide details: _____
2. Do any elements of this project scope include new roadway/electrical appurtenances that would require specialized training, equipment or materials to properly maintain the item (e.g., Vortech drainage chamber, ornamental lighting, and brick pavers)? Yes No
 If yes, provide details: _____
3. Does this project scope include or overlap sections of roadway that are simultaneously being planned or scheduled for Operations maintenance/construction activities? Yes No
 If yes, provide details: _____
4. Should consideration be given to canceling or postponing the Operations activity? Yes No
 If yes, provide details: _____

ADDITIONAL INPUT

This section has been provided for the CD designer and the functional units to state any assumptions, to clarify and customize standard activities, and to add important information. Please be clear and concise. Provide your unit's contact person and number.

Examples of information for this section include elements of the design that will necessitate an increase in maintenance personnel or equipment, conflicting or overlapping projects with Operations, etc.



Preliminary Engineering

Traffic Operations and Intelligent Transportation System (ITS) Engineering

Activity No.	Activity Name	Execute	Responsible Unit	Comments
3065	Prepare Preliminary ITS Facility Design	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Designer <input type="checkbox"/> ITS <input type="checkbox"/> Traffic Ops	

1. Project scope complies with the requirements of the latest ITS Investment Strategy and ITS Architecture? Yes No

2. Traffic Operations (North/ South) has been consulted for needs and impacts? Yes No

Identify needs and impacts. _____

3. Transportation Data Development has been consulted for needs and impacts? Yes No

Identify needs and impacts. _____

4. Project limits have been visually inspected for the existing ITS facilities? Yes No

5. Check if the project includes the construction or relocation of any of the following Intelligent Transportation System (ITS) facilities:

- | | | |
|--|---|---|
| <input type="checkbox"/> Controlled Traffic Signal Systems (CTSS) | <input type="checkbox"/> Dynamic Message Signs (DMS) | <input type="checkbox"/> Traffic Detection systems |
| <input type="checkbox"/> Weigh-in-Motion (WIM) | <input type="checkbox"/> Roadway Weather Information Systems (RWIS) | <input type="checkbox"/> Fiber Optic Conduit and/or Cable |
| <input type="checkbox"/> Closed Circuit TV Cameras (CCTV) | <input type="checkbox"/> Highway Advisory Radio (HAR) | <input type="checkbox"/> Bridge Sensors |
| <input type="checkbox"/> Traffic Volume Stations | <input type="checkbox"/> In-Road Sensors | |
| <input type="checkbox"/> Electrical or Communication Installations for the above systems | | |
| <input type="checkbox"/> Other ITS Devices: _____ | | |

ADDITIONAL INPUT

This section has been provided for the CD designer and the functional units to state any assumptions, to clarify and customize standard activities, and to add important information. Please be clear and concise. Provide your unit's contact person and number.

Examples of information for this section include compliance with latest ITS Investment Strategy and Architecture, consultation with Traffic Ops during CD, etc.



Preliminary Engineering

Commuter Mobility

Activity No.	Activity Name	Execute	Responsible Unit	Comments
		<input type="checkbox"/> Yes <input type="checkbox"/> No		

ADDITIONAL INPUT

This section has been provided for the CD designer and the functional units to state any assumptions, to clarify and customize standard activities, and to add important information. Please be clear and concise. Provide your unit's contact person and number.

Examples of information for this section include bicycle and pedestrian compatibility, Complete Streets compliance, presence of bus stops, interruption of pedestrian accommodations during construction, ADA issues, etc.



Preliminary Engineering

Technical and Administrative Activities

Activity No.	Activity Name	Execute	Responsible Unit	Comments
3005	Initiate Preliminary Engineering	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> Designer	
3160	Prepare Draft Preliminary Engineering Report	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> Designer	
3170	Prepare Final Design Scope Statement	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> SME's <input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> Designer	
3175	Complete Preliminary Engineering Quality Certification	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Designer	
3180	Update Project Management Plan	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM	
3185	Prepare FD Public Involvement Action Plan	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> Designer <input checked="" type="checkbox"/> CCR	
3195	Prepare Project Management Plan (Major Projects)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> DPM <input type="checkbox"/> Designer	
3200	FHWA Approves Draft Project Management Plan (Major Projects)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> DPM <input type="checkbox"/> Designer <input type="checkbox"/> FHWA	
3205	NJDOT Reviews Draft Preliminary Engineering Report	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> SME's <input checked="" type="checkbox"/> Designer	
3210	FHWA Reviews and Approves Preliminary Engineering Report	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> Designer <input checked="" type="checkbox"/> FHWA	
3225	Assess Designer	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM	
3230	Develop FD Designer Fee Proposal	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Designer	
3235	Develop FD Independent Cost Estimate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> OSBM	
3240	Create FD Schedule	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> OSBM	
3245	Negotiate FD Addendum	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> Designer <input checked="" type="checkbox"/> OSBM	



Preliminary Engineering

3250	Approve FD Schedule	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> OSBM
3255	Develop FD Budget	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> OSBM
3260	Finalize FD Budget	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM
3265	Approve FD Budget	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> OSBM
3270	Authorize Final Design	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> CIPD
3275	Execute FD Addendum	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM <input checked="" type="checkbox"/> Designer
3285	Complete PE Closeout	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DPM

1. Have the objectives of the Public Involvement Action Plan (PIAP) been satisfied? Yes No

2. Number of Local Workshop Meetings conducted in CD: 0

3. Public Information Centers conducted in CD (number of meetings, location & dates): 0

4. Number of Officials Briefings conducted in Concept Development: 0

5. List Issues, Commitments or Concerns: _____

6. Is the mailing list up to date? Yes No

7. Are the Displays adequate to reuse in PE: Yes No

8. Resolution of Support Number: _____

Resolution of Support Date: _____

9. Other Coordination:

a. List additional organizations (Historic Society, Chamber of Commerce, Board of Education, Fire Company's etc.) or authorities (NJ Transit, NJ Turnpike, NJ Highway Authority, Port Authority, etc.) that have interest in the project: _____

b. Proposed Formal Public Involvement Program (estimate number of Official Briefings and Public Info Centers/Meetings/Hearings): _____

c. If additional displays are required, provide the specifics (number, scale, special graphics 3D, simulations, models, etc): _____

d. If a mailing list is required, provide the approximate number of property owners: _____

Who is responsible for putting the mailing list together and providing mail labels? Consultant? In-house Design Other (Specify) _____

e. If handouts are required (provide the specifics, number, size, color or black and white, mapping, etc): _____

f. List special needs (i.e. Community Involvement Sub-Consultant, Facility Needs, Interpreter, Website, etc.): _____



Preliminary Engineering

- g. Traffic Staging: How many lanes of traffic need to be maintained? _____
What will be the available working hours? _____
Can the project duration be significantly reduced by reducing the number of stages? _____
Can detours be used? _____
- h. Schedule - Identify scheduling constraints (environmental, seasonal construction limitations, community). _____
What is the optimum period to start construction? _____
- i. Is the scope focused on replacement or rehabilitation of road/bridge? rockfall mitigation
Is condition likely to change/deteriorate between scoping and construction? _____

ADDITIONAL INPUT

This section has been provided for the CD designer and the functional units to state any assumptions, to clarify and customize standard activities, and to add important information. Please be clear and concise. Provide your unit's contact person and number.



Preliminary Engineering

Summary of Approvals

SME Unit	Manager	Approval	SME Involved	Remarks
Right of Way				
Access				
Drainage Management				
Regional Maintenance				
Hydrology and Hydraulics				
Landscape				
Environmental				
Quality Management Services				
Utilities				
Jurisdiction				
Geometrics & Roadway				
Pavement				
Structures				
Geotechnical				
Survey				
Railroads				
Construction				



Preliminary Engineering

Traffic Signal Design				
Electrical				
Traffic Operations & ITS				
Commuter Mobility				