STATE	FEDERAL PROJECT NO.
N.J.	

CONSTRUCTION SIGN TABLE

SIGN NO.	SERIES NO.	MESSAGE	SIZE MM x MM	AREA IN SQ. M	REQUIRED QUANTITY IN NUMBER	TOTAL AREA IN SQ. M
1	G20-2A	END ROAD WORK	1200 x 600	0.7 Sq. M	18	12.6
2	R2-1	XX M.P.H.	600 x 750	0.5 Sq. M	4	2.0
3	R2-5a	REDUCE SPEED AHEAD	600 x 750	0.5 Sq. M	4	2.0
4	R4-1	DO NOT PASS	600 x 750	0.5 Sq. M	2	1.0
5	R5-8	SIDEWALK CLOSED-USE OTHER SIDE	600 x 750	0.5 Sq. M	6	3.0
6	R(NJ)5-17	TRAFFIC FINES DOUBLED IN WORK AREA	1500 x 900	1.35 Sq. M	8	10.8
7	W1-4a	1 SHIFTED LANE	1200 x 1200	1.4 Sq. M	4	5.6
8	W1-6(L)		1200 x 600	0.7 Sq. M	24	16.8
9	W4-2	LANE REDUCTION TRANSITIONS	900 x 900	0.8 Sq. M	2	1.6
10	W4-2(S)R		1200 x 1200	1.4 Sq. M	2	2.8
11	W4-2(S)L		1200 x 1200	1.4 Sq. M	2	2.8
12	W5-1(S)	ROAD NARROWS	1200 x 1200	1.4 Sq. M	4	5.6
13	W8-9a		1200 x 1200	1.4 Sq. M	4	5.6
14	W8-14a	GROOVED PAVEMENT AHEAD	1200 x 1200	1.4 Sq. M	4	5.6
15	W20-1A	ROAD WORK 1500 FT.	1200 x 1200	1.4 Sq. M	16	22.4
16	W20-1D	ROAD WORK 1/2 MILE	1200 x 1200	1.4 Sq. M	2	2.4
17	W20-1F	ROAD WORK AHEAD	1200 x 1200	1.4 Sq. M	16	22.4
18	W20-4F	SINGLE LANE AHEAD	1200 x 1200	1.4 Sq. M	2	2.8
19	W20-5AL	LEFT LANE CLOSED 1500 FT.	1200 x 1200	1.4 Sq. M	2	2.8
20	W20-5BL	LEFT LANE CLOSED 1000 FT.	1200 x 1200	1.4 Sq. M	2	2.8
21	W20-5AR	RIGHT LANE CLOSED 1500 FT.	1200 x 1200	1.4 Sq. M	2	2.8
22	W20-5BR	RIGHT LANE CLOSED 1000 FT.	1200 x 1200	1.4 Sq. M	2	2.8
23	W20-7a(S)	FLAGGER (SYMBOL)	1200 x 1200	1.4 Sq. M	2	2.8
24	W20-7b	"BE PREPARED TO STOP"	1200 x 1200	1.4 Sq. M	2	2.8
25	W99-2	"GIVE US A BRAKE"	1200 x 1200	1.4 Sq. M	2	2.8
				CONSTRUCTION SIGN TOTAL		147.4

RECOMMENDED TAPER LENGTH AND SPACING FOR CHANNELIZING TAPERS						RECOMMENDED SPACING ALONG TANGENTS
REGULATORY APPROACH SPEED OF TRAFFIC IN KM/HOUR (MILES/HOUR)	MINIMUM TAPER RATIO IN LENGTH PER METER OF WIDTH	MINIMUM TAPER LENGTH L-FOR LANE WIDTHS 3 M	3.3 M	3.6 M	MAXIMUM DEVICE (B) SPACING ALONG TAPERS IN METERS	MAXIMUM DEVICE (D) SPACING ALONG TANGENTS IN METERS
40 (25)	1:10	30	35	40	8	16
50 (30)	1:15	45	50	55	10	20
60 (40)	1:27	80	90	95	12	24
70 (45)	1:45	135	150	165	14	28
80 (50)	1:50	150	165	180	16	32
90 (55)	1:55	165	185	200	18	36
95 (60)	1:60	180	200	215	20	40
100 (65)	1:65	195	215	235	22	44

NOTE:

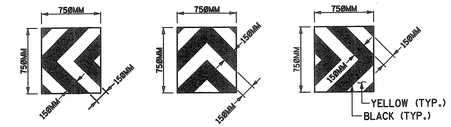
1. THE MAXIMUM DEVICE SPACING ALONG CURVES SHALL BE AS DEFINED FOR TAPERS (B) IN THE ABOVE TABLE.

LEGEND

- BREAKAWAY BARRICADES
- BREAKAWAY BARRICADES WITH SIGN
- CONSTRUCTION SIGNS
- DRUMS
- CONE
- PRECAST CONCRETE CURB CONSTRUCTION BARRIER (TYPE SPECIFIED)
- DIRECTION OF TRAFFIC FLOW
- FLAGGER
- ILLUMINATED FLASHING ARROW MOUNTED ON TOWING VEHICLE SHOWING CAUTION MODE
- LEFT RIGHT BOTH — ILLUMINATED FLASHING ARROW MOUNTED ON TOWING VEHICLE SHOWING ARROW PATTERN (Left, Right, Both)
- TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION AND ARROW BOARD SHOWING CAUTION MODE
- LEFT RIGHT BOTH — TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION AND ARROW BOARD SHOWING ARROW PATTERN (Left, Right, Both)
- TEMPORARY CRASH CUSHION, INERTIAL BARRIER SYSTEM
- TEMPORARY CRASH CUSHION, (all other approved)
- PAINT STRIPING TRUCK OR OTHER OPERATING VEHICLE

TRAFFIC CONTROL NOTES:

1. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SCHEDULED BUS STOPS DURING CONSTRUCTION. TEMPORARY BUS PULLOFFS WILL BE PROVIDED WHERE POSSIBLE (SEE 'BUS PULLOFF DETAIL', SHEET TC-4).
2. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN TRAFFIC ALONG ROUTE 9W DURING CONSTRUCTION (SEE PEDESTRIAN NOTES THIS SHEET).
3. THE REQUIRED CONSTRUCTION WARNING SIGNS SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE ENTIRE CONSTRUCTION STAGE. CONSTRUCTION SIGNS SHALL BE REMOVED OR COVERED WITH AN OPAQUE CLOTH MATERIAL WHEN THE MESSAGE IS NOT APPLICABLE FOR A PARTICULAR STAGE.
4. ROUTE 9W ROADWAY CONSTRUCTION FOR STAGES I A & I B SHALL BE COMPLETED TO THE TOP OF THE HMA BASE LAYER (SUPERPAVE) SO THAT THE FINAL SURFACE COURSE CAN BE PLACED IN ONE CONTINUOUS OPERATION DURING STAGE II .
5. ADVANCE WARNING SIGNS, DISTANCES AND TAPER LENGTHS MAY BE EXTENDED AT THE DIRECTION OF THE ENGINEER TO ADJUST FOR REDUCED VISIBILITY DUE TO THE HORIZONTAL AND/OR VERTICAL CURVATURE OF THE ROADWAY.
6. THE CONTRACTOR SHALL MAINTAIN TEMPORARY DRAINAGE FACILITIES BY PROVIDING TRAVERSIBLE TYPE E FRAMES AND GRATES ON PROPOSED INLETS AND RESETTING GRATES OR RECONSTRUCTING INLETS TO MEET TEMPORARY GRADE, AS REQUIRED.
7. CONSTRUCTION ZONE SPEED SHALL BE DETERMINED BY THE BUREAU OF TRAFFIC SIGNAL AND SAFETY ENGINEERING, REGIONAL TRAFFIC ENGINEER-WORK ZONE AT THE TIME OF CONSTRUCTION.
8. ALL CONFLICTING STRIPES SHALL BE REMOVED.
9. THE MINIMUM ALLOWABLE UNOBSTRUCTED LANE WIDTH SHALL BE 3.3 METERS.
10. WHEN W1-6 SIGN IS MOUNTED ON BREAKAWAY BARRICADES, THE MESSAGE SHALL BE PLACED ON LIGHTWEIGHT SIGN BACKING MATERIAL IN KIND WITH THE REFLECTIVE RAILS OF THE BREAKAWAY BARRICADES.
11. THE BACKROUND OF ADVANCED WARNING SIGNS (W20 SERIES AND W4-2 SIGNS) SHALL BE TYPE IV-B; FLOURESCENT ORANGE SHEETING.
12. A W99-2 SIGN "GIVE US A BRAKE" SHALL BE LOCATED 60 METERS IN ADVANCE OF THE PROJECT, ONE SIGN FOR EACH DIRECTION OF TRAFFIC FLOW.
13. DURING CONDITIONS OF ADVERSE WEATHER, NO LANE WIDTH REDUCTIONS OR MOVEMENT OF CONTRACTOR'S VEHICLES WILL BE PERMITTED ON THE ROADWAY. ADVERSE WEATHER INCLUDES RAIN, SNOW, ANY CONDITION RESULTING IN WET, ICY OR SLIPPERY ROADWAY PAVEMENT AND PERIODS OF REDUCED VISIBILITY CAUSED BY FOG, MIST OR SMOKE.
14. A W1-6 MOUNTED ON A BREAKAWAY BARRICADE CENTERED ON THE CLOSED WIDTH SHALL BE LOCATED 30 METERS BEYOND EACH INTERSECTION OR MAIN ACCESS POINT WITHIN THE AREA OF A LANE OR SHOULDER CLOSURE.
15. CONSTRUCTION SIGNS W8-9a AND W8-14a SHALL BE USED WHEN SUCH PAVEMENT CONDITIONS EXIST. THE PLACEMENT OF THESE SIGNS SHALL BE AS DIRECTED BY THE ENGINEER.
16. "TRAFFIC FINES DOUBLED IN THE WORK AREA" R(NJ)5-17 SIGN SHALL BE LOCATED 150 METERS AFTER FIRST ADVANCED WARNING SIGN, W20 SERIES, AT EACH WORK AREA.
17. THE SPEED LIMIT, R2-1 (BLACK ON WHITE) OR W13-1 (BLACK ON ORANGE) SIGN SHALL BE LOCATED THROUGH WORK AREA AS DIRECTED BY THE BUREAU OF TRAFFIC SIGNAL AND SAFETY ENGINEERING, REGIONAL TRAFFIC ENGINEER-WORK ZONE.
18. A "REDUCE SPEED AHEAD" SIGN, R2-5a(S)(BLACK ON WHITE) SHALL BE LOCATED IN ADVANCE OF SPEED LIMIT R2-1 SIGNS WHICH REDUCES THE NORMAL POSTED SPEED LIMIT THROUGH THE CONSTRUCTION ZONE.
19. CONSTRUCTION IDENTIFICATION SIGNS SHALL BE LOCATED WITHIN THE PROJECT LIMITS DURING ALL STAGES OF CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
20. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER (72 HOURS IN ADVANCE) OF ANY REQUEST FOR LANE CLOSING AND THE RESIDENT ENGINEER WILL NOTIFY THE TRAFFIC OPERATIONS NORTH.
21. AT ALL LOCATIONS WHERE CRASH CUSHIONS ARE USED: ON THE SMOOTH SURFACE OF THE "NOSE", INSTALL A 750MMx750MM PIECE OF HIGH INTENSITY, COLD APPLICATION, HI TACK OR SUPER HI TACK SHEETING WITH EITHER OF THE THREE APPROPRIATE CROSS HATCHING SCHEMES SHOWN ON THIS SHEET. IF THE "NOSE" HAS A RIDGED SURFACE, THE SHEETING MAY HAVE TO BE MOUNTED ON "LIGHT" STOCK AND BE POP-WELDED ONTO THE LEAD DRUM. THESE PANELS SHALL ALSO BE USED ON BEAM GUIDE RAIL ENDS.



WHERE TRAFFIC PASSES TO LEFT SIDE — WHERE TRAFFIC PASSES TO EITHER SIDE — WHERE TRAFFIC PASSES TO RIGHT SIDE

22. THE CONTRACTOR SHALL ADHERE TO THE FOLLOWING LANE CLOSURE HOURS SCHEDULE:

	MONDAY THRU THURSDAY	FRIDAY	SATURDAY	SUNDAY
ALL LANES MAINTAINED (EACH DIRECTION)	7:00 A.M. TO 9:00 A.M. AND 4:00 P.M. TO 7:00 P.M.	7:00 A.M. TO 9:00 A.M. AND 4:00 P.M. TO 7:00 P.M.	9:00 A.M. TO 8:00 P.M.	10:00 A.M. TO 8:00 P.M.
ONE LANE MAINTAINED (EACH DIRECTION)	9:00 A.M. TO 4:00 P.M. AND 7:00 P.M. TO 7:00 A.M.(NEXT DAY)	9:00 A.M. TO 4:00 P.M. AND 7:00 P.M. TO 9:00 A.M.(SAT.)	8:00 P.M. TO 10:00 A.M.(SUN)	8:00 P.M. TO 7:00 A.M. (MONDAY)

23. NO LANE CLOSURES WILL BE PERMITTED ON THE FOLLOWING HOLIDAYS
    - EASTER SUNDAY (INCLUDING 6:00 AM FRIDAY UNTIL NOON MONDAY)
    - MEMORIAL DAY (SEE NOTE BELOW)
    - JULY 4TH (SEE NOTE BELOW)
    - LABOR DAY (SEE NOTE BELOW)
    - ELECTION DAY (6:00 AM UNTIL 8:00 PM THE DAY OF)
    - THANKSGIVING DAY (SEE NOTE BELOW)
    - CHRISTMAS DAY (SEE NOTE BELOW)
    - NEW YEAR'S DAY (SEE NOTE BELOW)

IF HOLIDAY FALLS ON	NO LANE CLOSURES PERMITTED
SUNDAY OR MONDAY	6:00 AM FRIDAY UNTIL NOON TUESDAY
TUESDAY	6:00 AM FRIDAY UNTIL NOON WEDNESDAY
WEDNESDAY	6:00 AM TUESDAY UNTIL NOON THURSDAY
THURSDAY	6:00 AM WEDNESDAY UNTIL NOON MONDAY
FRIDAY OR SATURDAY	6:00 AM THURSDAY UNTIL NOON MONDAY

NOTE: NO TEMPORARY LANE CLOSURES WILL BE PERMITTED ON THIS PROJECT BETWEEN THE DAY BEFORE THANKSGIVING DAY AND THE DAY AFTER NEW YEAR'S DAY.

24. CONTRACTOR SHALL BE RESTRICTED TO MAINTAINING A MAXIMUM WORK AREA LENGTH OF 600M. IF THE CONTRACTOR HAS SUFFICIENT MAN POWER AND EQUIPMENT, HE MAY MAINTAIN A 2nd WORK AREA, AS APPROVED BY THE ENGINEER. THIS 2nd WORK AREA MAY NOT BE LOCATED DIRECTLY OPPOSITE THE FIRST WORK AREA. WORK SHALL NOT PROCEED ON ANY OTHER PORTION OF PROJECT UNTIL WORK AREA IS COMPLETE OR AS DIRECTED BY THE ENGINEER.
25. ADVANCED WARNING SIGNS ARE TO BE INSTALLED ON SIDE STREETS.
26. WORK TO BE PERFORMED FOR CROSSING TRENCHES MUST BE DONE AT NIGHT, AFTER 7 PM AND PATCHED WITH HOT MIX ASPHALT PRIOR TO OPENING ROAD TO TRAFFIC.
27. THE CONTRACTOR MUST MAINTAIN TWO LANES OF TRAFFIC IN EACH DIRECTION AT ALL TIMES EXCEPT DURING THE ALLOWABLE TEMPORARY LANE CLOSURES HOURS.
28. LOCAL NOISE ORDINANCE LIMIT THE CONTRACTOR'S HOURS OF OPERATION FROM 7:00 AM UNTIL 9:00 PM ON WEEKDAYS AND 9:00 AM UNTIL 7:00 PM ON WEEKENDS AND LEGAL HOLIDAYS. THE CONTRACTOR SHALL REQUEST A WAIVER TO EXTEND WORK HOURS BEYOND THE LIMITED HOURS SINCE NIGHT WORK IS VERY CRITICAL TO THIS PROJECT.
29. THE MAINTENANCE AND PROTECTION OF TRAFFIC MUST BE EXTENDED BEYOND THE PROJECT LIMITS ON THE EAST SIDE OF ROUTE 9W TO INCLUDE PROTECTION FOR THE CONSTRUCTION OF GAS MAIN INSERTS, GAS UPRATING, AND EXCAVATED PITS ALONG CHARLOTTE PLACE, SHERWOOD AVENUE, AND CLENDINEN PLACE. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH THE MUTCD AND NJDOT STANDARD ROADWAY CONSTRUCTION TRAFFIC CONTROL DETAILS. THIS TRAFFIC CONTROL WILL NEED TO EXTEND ALONG CHARLOTTE PLACE, SHERWOOD AVENUE, AND CLENDINEN PLACE FROM ROUTE 9W UP TO AND INCLUDING THEIR INTERSECTIONS WITH HUDSON TERRACE.

PEDESTRIAN NOTES:

1. PRIOR TO CLOSING A WORK AREA, CONTRACTOR MUST PROVIDE THE ENGINEER WITH A METHOD OF MAINTAINING PEDESTRIAN ACCESS TO PROPERTIES IMPACTED BY CONSTRUCTION.
2. THE PEDESTRIAN ACCESS MUST BE CLEARLY MARKED WITH APPROVED TRAFFIC CONTROL DEVICES SUCH AS CONES, TAPE, SIGNS AND IF NECESSARY A TRAFFIC DIRECTOR, FLAGGERS WILL BE PROVIDED TO PROMOTE SAFE PEDESTRIAN PASSAGE.

MAILBOX NOTES:

1. ACCESS TO ALL EXISTING MAILBOXES MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
2. EXISTING MAILBOXES MAY BE TEMPORARILY RELOCATED IF THEY CONFLICT WITH THE PROPOSED CONSTRUCTION. ANY RELOCATION MUST BE APPROVED BY THE ENGLEWOOD POST MASTER AND AS DIRECTED BY THE ENGINEER. TO BE PAID FOR UNDER CLEARING SITE.

BUS STOP NOTES:

1. ACCESS TO ALL POSTED BUS STOPS MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
2. EXISTING BUS STOPS MAY BE TEMPORARILY RELOCATED IF THEY CONFLICT WITH THE PROPOSED CONSTRUCTION. ANY RELOCATION MUST BE APPROVED BY NJ TRANSIT, ROCKLAND COACHES AND AS DIRECTED BY THE ENGINEER.

FILE NAME: p:\1907\cadd\dgn\1907tcs1.dgn
DATE: 03 DEC 2002
USERNAME: ALsician

PREPARED BY: G. MENZEL
REVIEWED BY: A. GHATTAS
DRAWN BY: A. LISCIANDRELLO

TC-1 / TC-5

NEW JERSEY DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND STAGING PLANS

ROUTE 9W — SECTION 1J

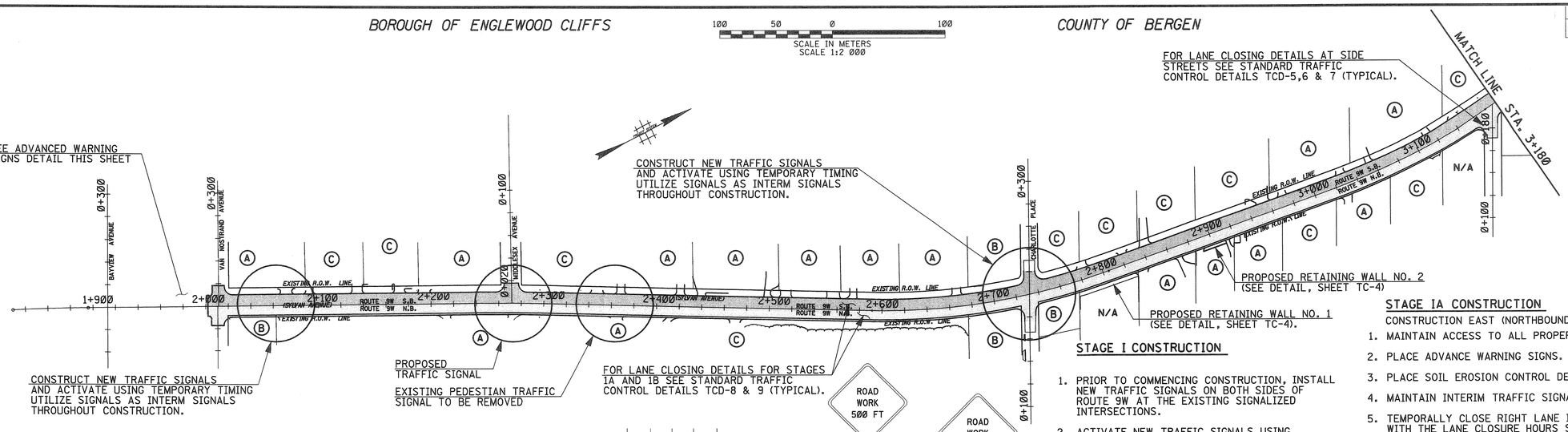
LICHTENSTEIN CONSULTING ENGINEERS, INC.
RONALD GIAMARIO
N.J. P.E. LICENSE #31556

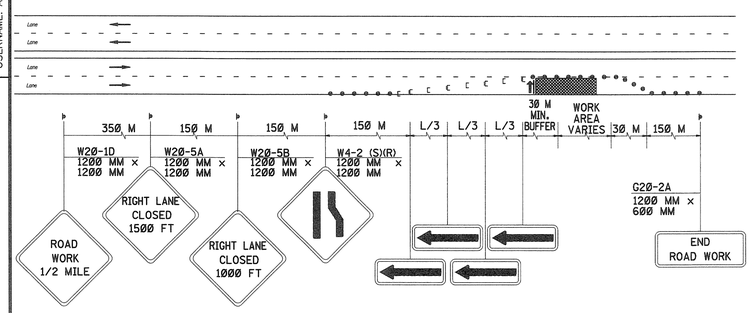
STATE	FEDERAL PROJECT NO.
N.J.	

BOROUGH OF ENGLEWOOD CLIFFS

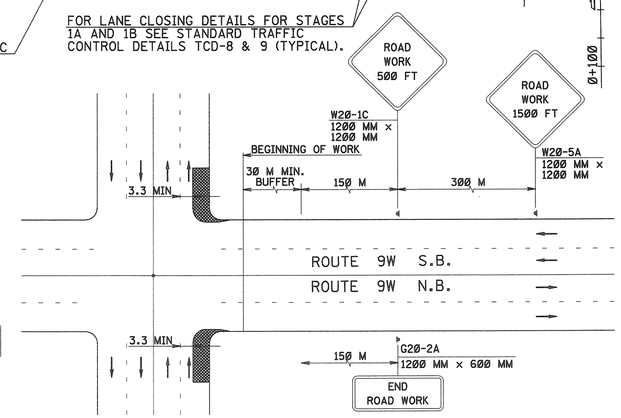
COUNTY OF BERGEN

SCALE IN METERS
SCALE 1:2 000





ADVANCED WARNING SIGNS ALONG ROUTE 9W
(TYPICAL CONSTRUCTION STAGE)
N.T.S.



ADVANCED WARNING SIGNS AT INTERSECTIONS
N.T.S.

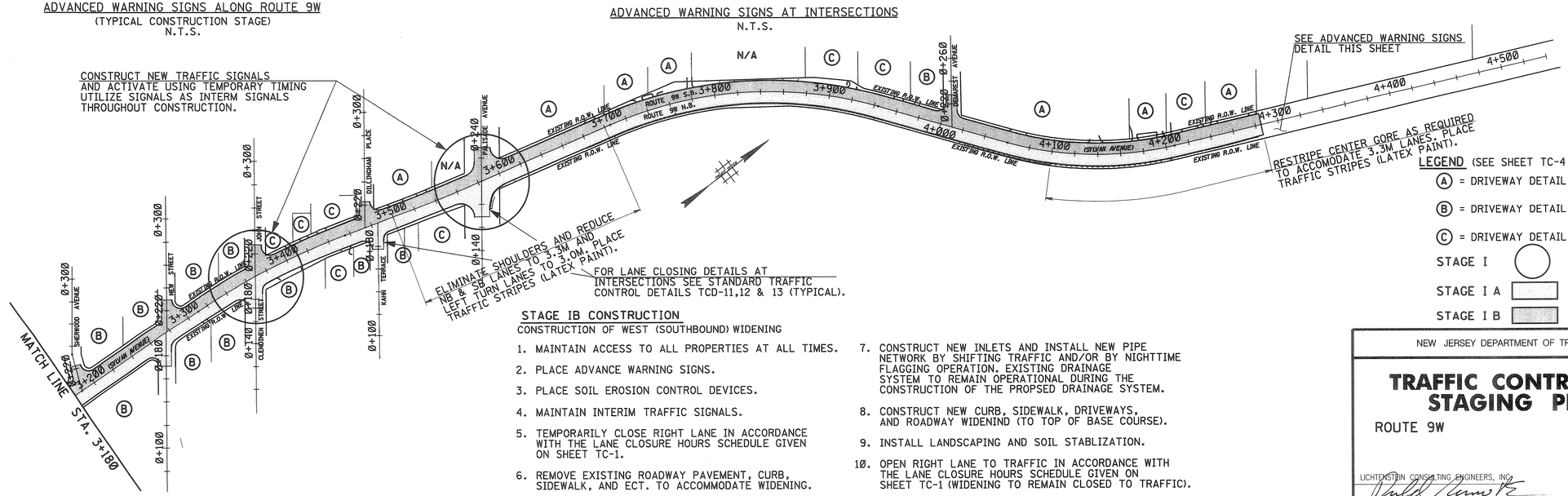
STAGE I CONSTRUCTION

1. PRIOR TO COMMENCING CONSTRUCTION, INSTALL NEW TRAFFIC SIGNALS ON BOTH SIDES OF ROUTE 9W AT THE EXISTING SIGNALIZED INTERSECTIONS.
2. ACTIVATE NEW TRAFFIC SIGNALS USING TEMPORARY TIMING SHOWN ON THESE PLANS (NEW TRAFFIC SIGNAL AT MIDDLESEX AVENUE NOT TO BE ACTIVATED). THE NEW SIGNALS SHOUD BE USED AS INTERIM SIGNALS THROUGHOUT THE DURATION OF THE PROJECT CONSTRUCTION.
3. REMOVE EXISTING TRAFFIC SIGNALS.
4. COORDINATE WITH UTILITY COMPANIES TO RELOCATE THEIR UNDERGROUND FACILITIES AS REQUIRED.

STAGE IA CONSTRUCTION

CONSTRUCTION EAST (NORTHBOUND) WIDENING

1. MAINTAIN ACCESS TO ALL PROPERTIES AT ALL TIMES.
2. PLACE ADVANCE WARNING SIGNS.
3. PLACE SOIL EROSION CONTROL DEVICES.
4. MAINTAIN INTERIM TRAFFIC SIGNALS.
5. TEMPORALLY CLOSE RIGHT LANE IN ACCORDANCE WITH THE LANE CLOSURE HOURS SCHEDULE GIVEN ON SHEET TC-1.
6. REMOVE EXISTING ROADWAY PAVEMENT, CURB, SIDEWALK, AND ECT. TO ACCOMMODATE WIDENING.
7. CONSTRUCT NEW INLETS AND INSTALL NEW PIPE NETWORK BY SHIFTING TRAFFIC AND/OR BY NIGHTTIME FLAGGING OPERATION. EXISTING DRAINAGE SYSTEM TO REMAIN OPERATIONAL DURING THE CONSTRUCTION OF THE PROPSED DRAINAGE SYSTEM.
8. CONSTRUCT NEW CURB, SIDEWALK, DRIVEWAYS, RETAINING WALLS AND ROADWAY WIDENIND (TO TOP OF BASE COURSE).
9. INSTALL LANDSCAPING AND SOIL STABLIZATION.
10. OPEN RIGHT LANE TO TRAFFIC IN ACCORDANCE WITH THE LANE CLOSURE HOURS SCHEDULE GIVEN ON SHEET TC-1 (WIDENING TO REMAIN CLOSED TO TRAFFIC).
11. INSTALL BEAM GUIDE RAIL AND RUB RAIL.



STAGE IB CONSTRUCTION

CONSTRUCTION OF WEST (SOUTHBOUND) WIDENING

1. MAINTAIN ACCESS TO ALL PROPERTIES AT ALL TIMES.
2. PLACE ADVANCE WARNING SIGNS.
3. PLACE SOIL EROSION CONTROL DEVICES.
4. MAINTAIN INTERIM TRAFFIC SIGNALS.
5. TEMPORARILY CLOSE RIGHT LANE IN ACCORDANCE WITH THE LANE CLOSURE HOURS SCHEDULE GIVEN ON SHEET TC-1.
6. REMOVE EXISTING ROADWAY PAVEMENT, CURB, SIDEWALK, AND ECT. TO ACCOMMODATE WIDENING.
7. CONSTRUCT NEW INLETS AND INSTALL NEW PIPE NETWORK BY SHIFTING TRAFFIC AND/OR BY NIGHTTIME FLAGGING OPERATION. EXISTING DRAINAGE SYSTEM TO REMAIN OPERATIONAL DURING THE CONSTRUCTION OF THE PROPSED DRAINAGE SYSTEM.
8. CONSTRUCT NEW CURB, SIDEWALK, DRIVEWAYS, AND ROADWAY WIDENIND (TO TOP OF BASE COURSE).
9. INSTALL LANDSCAPING AND SOIL STABLIZATION.
10. OPEN RIGHT LANE TO TRAFFIC IN ACCORDANCE WITH THE LANE CLOSURE HOURS SCHEDULE GIVEN ON SHEET TC-1 (WIDENING TO REMAIN CLOSED TO TRAFFIC).
11. INSTALL BEAM GUIDE RAIL AND RUB RAIL.

LEGEND (SEE SHEET TC-4 FOR DETAILS)

- (A) = DRIVEWAY DETAIL TYPE "A"
- (B) = DRIVEWAY DETAIL TYPE "B"
- (C) = DRIVEWAY DETAIL TYPE "C"
- STAGE I
- STAGE I A
- STAGE I B

TC-2 / TC-5

NEW JERSEY DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND STAGING PLANS

ROUTE 9W — SECTION 1J

LICHTENSTEIN CONSULTING ENGINEERS, INC.
RONALD GIAMARIO
N.J. P.E. LICENSE #31556

FILE NAME: p:\1907\cadd\dgn\1907tcs2.dgn
DATE: 02 DEC 2002
USERNAME: ALiscian

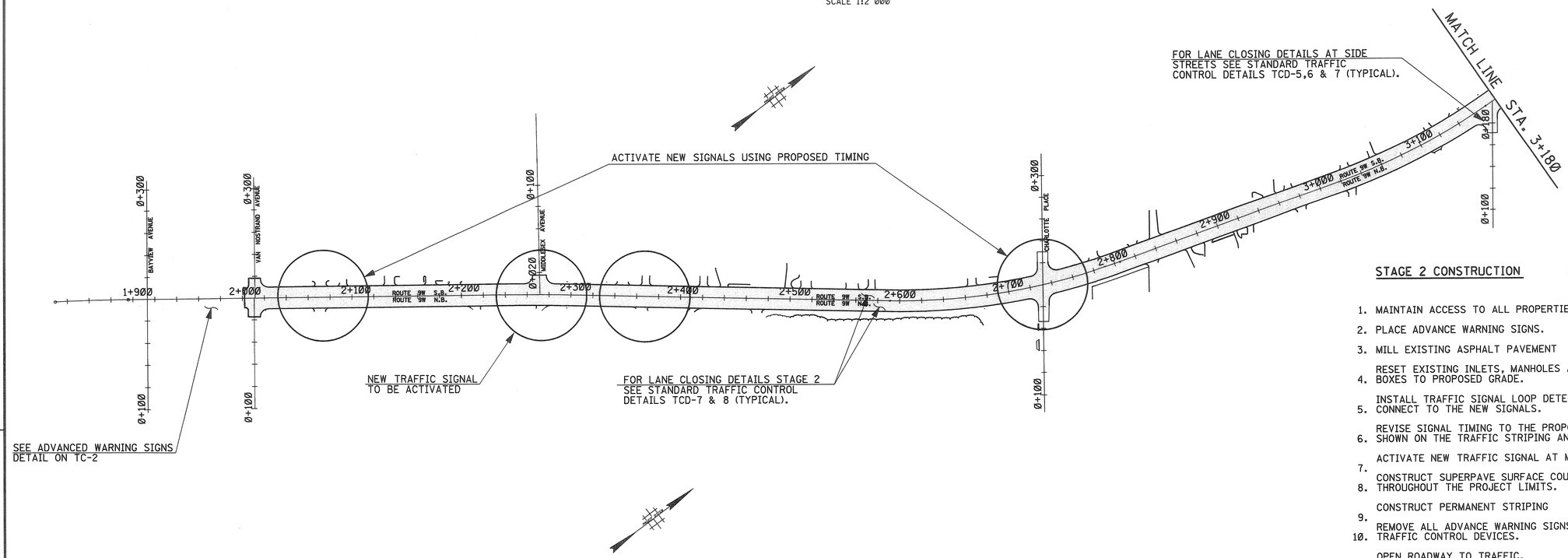
PREPARED BY: G. MENZEL
REVIEWED BY: A. GHATTAS
DRAWN BY: A. LISCIANDRELLO

STATE	FEDERAL PROJECT NO.
N.J.	

BOROUGH OF ENGLEWOOD CLIFFS

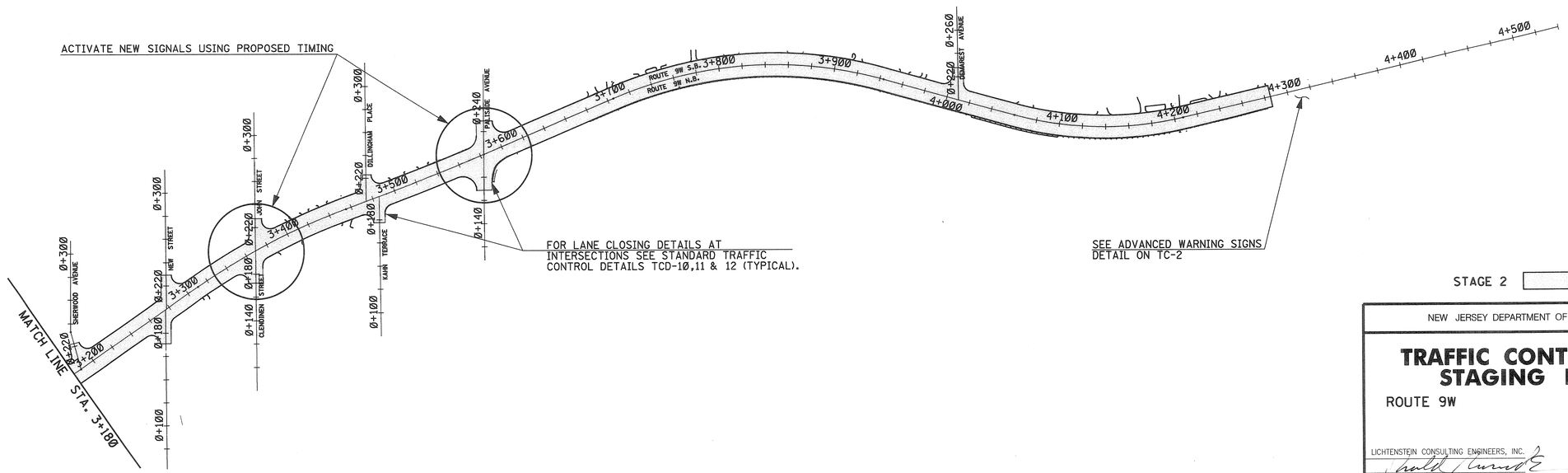
100 50 0 100
SCALE IN METERS
SCALE 1:2 000

COUNTY OF BERGEN



STAGE 2 CONSTRUCTION

1. MAINTAIN ACCESS TO ALL PROPERTIES AT ALL TIMES.
2. PLACE ADVANCE WARNING SIGNS.
3. MILL EXISTING ASPHALT PAVEMENT
4. RESET EXISTING INLETS, MANHOLES AND VALVE BOXES TO PROPOSED GRADE.
5. INSTALL TRAFFIC SIGNAL LOOP DETECTORS AND CONNECT TO THE NEW SIGNALS.
6. REVISE SIGNAL TIMING TO THE PROPOSED TIMING SHOWN ON THE TRAFFIC STRIPING AND SIGNING PLANS.
7. ACTIVATE NEW TRAFFIC SIGNAL AT MIDDLESEX AVENUE.
8. CONSTRUCT SUPERPAVE SURFACE COURSE THROUGHOUT THE PROJECT LIMITS.
9. CONSTRUCT PERMANENT STRIPING
10. REMOVE ALL ADVANCE WARNING SIGNS AND TRAFFIC CONTROL DEVICES.
11. OPEN ROADWAY TO TRAFFIC.



STAGE 2

TC-3 / TC-5

NEW JERSEY DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND STAGING PLANS

ROUTE 9W SECTION 1J

LICHTENSTEIN CONSULTING ENGINEERS, INC.
RONALD GIAMARIO
N.J. P.E. LICENSE #31556

FILE NAME: p:\1907\cadd\dgn\1907tcs3.dgn
DATE: 02 DEC 2002
USERNAME: ALiscion

PREPARED BY: G. MENZEL
REVIEWED BY: A. GHATTAS
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STATE	FEDERAL PROJECT NO.
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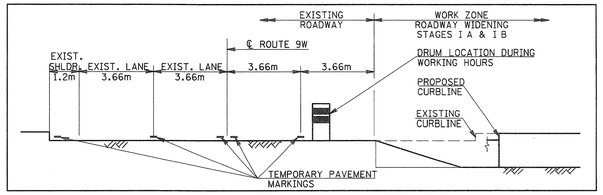
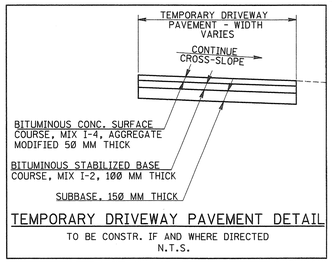
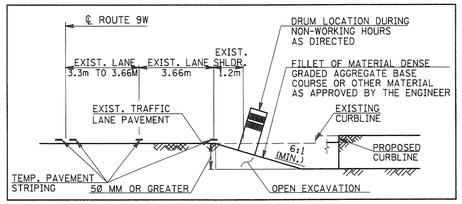


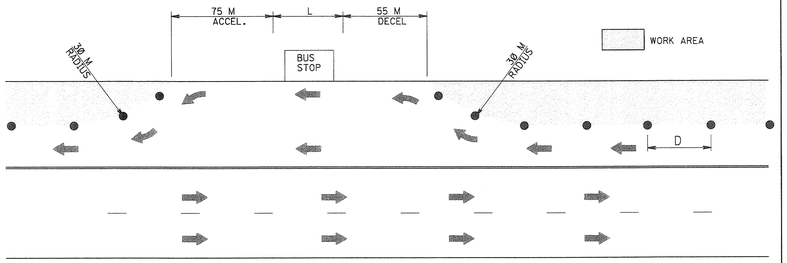
TYPICAL WORKING HOUR STAGING
(STAGE I A & I B)
N.T.S.



TEMPORARY DRIVEWAY PAVEMENT DETAIL
TO BE CONSTR. IF AND WHERE DIRECTED
N.T.S.

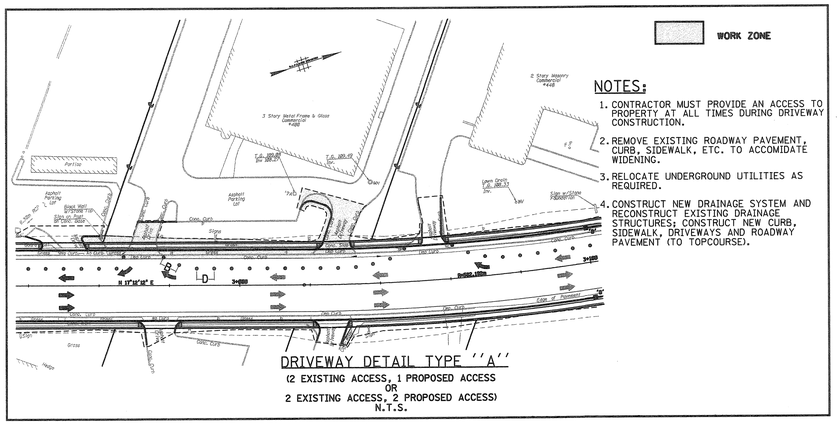


ESCAPE RAMP DETAIL
(NON WORKING HOURS - STAGE I A & I B)
N.T.S.



B=10M
D=20M
FOR 12M BUS, L=15M
FOR 18M BUS, L=21M

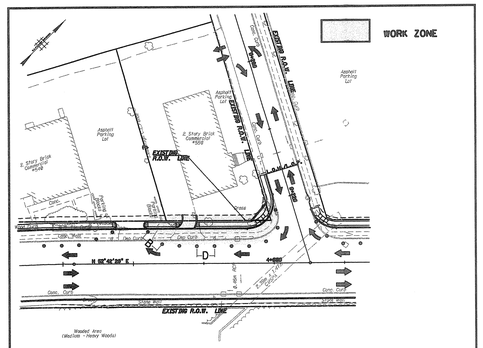
BUS PULLOUT DETAIL



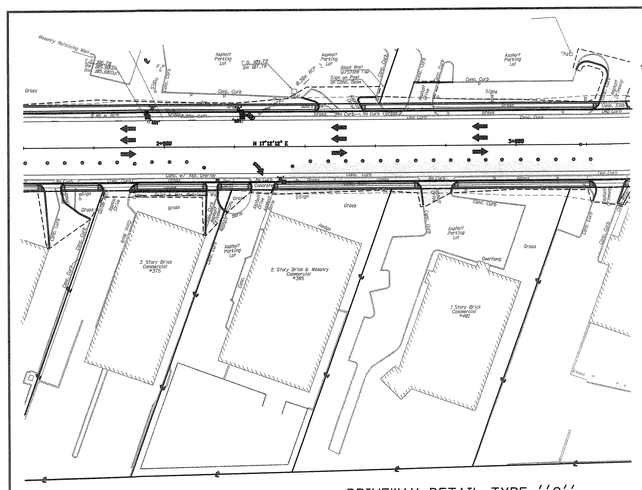
NOTES:

1. CONTRACTOR MUST PROVIDE AN ACCESS TO PROPERTY AT ALL TIMES DURING DRIVEWAY CONSTRUCTION.
2. REMOVE EXISTING ROADWAY PAVEMENT, CURB, SIDEWALK, ETC. TO ACCOMIDATE WIDENING.
3. RELOCATE UNDERGROUND UTILITIES AS REQUIRED.
4. CONSTRUCT NEW DRAINAGE SYSTEM AND RECONSTRUCT EXISTING DRAINAGE STRUCTURES; CONSTRUCT NEW CURB, SIDEWALK, DRIVEWAYS AND ROADWAY PAVEMENT (TO TOPCOURSE).

DRIVEWAY DETAIL TYPE ''A''
(2 EXISTING ACCESS, 1 PROPOSED ACCESS
OR
2 EXISTING ACCESS, 2 PROPOSED ACCESS)
N.T.S.



DRIVEWAY DETAIL TYPE ''B''
(PROPERTY USES SIDE STREET ACCESS)
N.T.S.

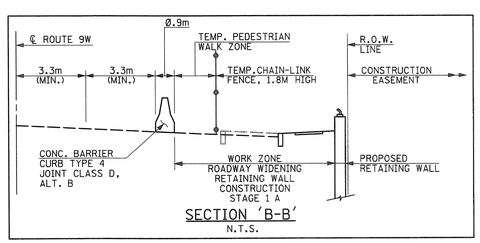


NOTES:

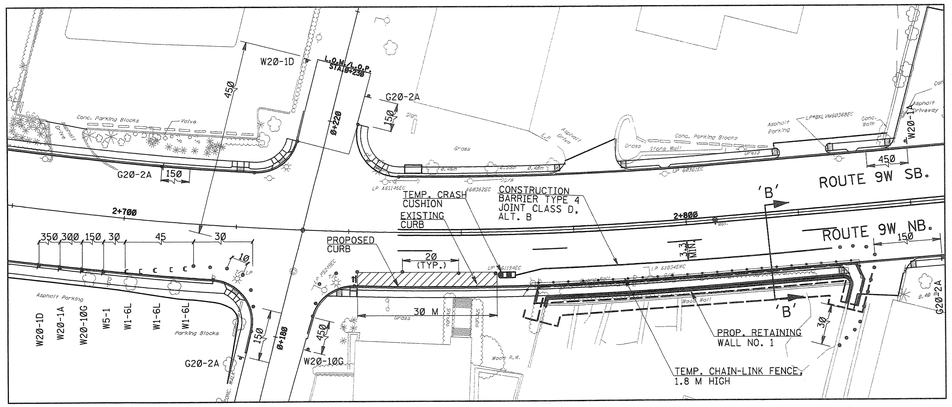
1. CONTRACTOR MUST ARRANGE WITH OWNER AN ACCESS CLOSING WHICH WILL NOT INTERUPT A COMMERCIAL BUSINESS.
2. CONTRACTOR MUST ARRANGE WITH RESIDENTIAL OWNERS AN ACCESS CLOSING THAT MINIMIZES DISRUPTION.

DRIVEWAY DETAIL TYPE ''C''
(1 EXISTING ACCESS, 1 PROPOSED ACCESS)
N.T.S.

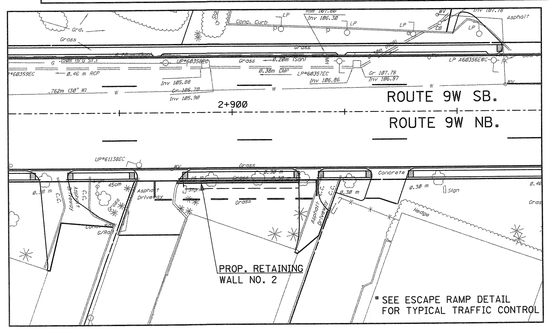
DRIVEWAY DETAILS
N.T.S.



SECTION 'B-B'
N.T.S.



PROPOSED RETAINING WALL NO. 1 (PLAN)
N.T.S.



PROPOSED RETAINING WALL NO. 2 (PLAN)
N.T.S.

TC-4
TC-5

NEW JERSEY DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND STAGING PLANS

ROUTE 9W — SECTION 1J

LICHTENSTEIN CONSULTING ENGINEERS, INC.
RONALD GIAMARIO
N.J. P.E. LICENSE #31556

FILE NAME: p:\1907\cadd\dgn\1907tcs4.dgn
DATE: 02 DEC 2002
USERNAME: ALisciar

PREPARED BY: G. MENZEL
REVIEWED BY: A. GHATTAS
DRAWN BY: A. LISCIANDRELLO

STATE	FEDERAL PROJECT NO.
N.J.	

ROUTE 9W & PRIVATE DRIVE
TEMPORARY TIMING DURING CONSTRUCTION

PHASE	TIME (SECONDS) I	II	III	IV
1. SOUTHBOUND ROUTE 9W	10	10	10	10
CHANGE	3	3	3	3
2. NB & SB ROUTE 9W	77	62	77	47
PEDESTRIAN CLEARANCE	8	8	8	8
CHANGE	4	4	4	4
CLEARANCE	2	2	2	2
3. EB & WB PRIVATE DRIVE	10	25	10	10
CHANGE	4	4	4	4
CLEARANCE	2	2	2	2

TIMING PLAN	HOURS
I	6:30 A.M. - 9:00 A.M., M-F
II	3:30 P.M. - 6:30 P.M., M-F
III	9:00 A.M. - 3:30 P.M., M-F & 8:00 A.M. - 9:00 P.M., SAT & SUN
IV	ALL OTHER TIMES

NOTES:
IF A PEDESTRIAN PUSH BUTTON ACTUATION IS RECEIVED TO CROSS ROUTE 9W, THE CONTROLLER SHALL PROVIDE 7 SECONDS OF "WALK" TIME AND 9 SECONDS OF "FLASHING DON'T WALK" TIME DURING PHASE 3.

THIS INTERSECTION IS THE BASE INTERSECTION FOR THE COORDINATION OF THE OTHER INTERSECTIONS.

ROUTE 9W & CHARLOTTE PLACE
TEMPORARY TIMING DURING CONSTRUCTION

PHASE	TIME (SECONDS) I	II	III	IV
1. NB & SB ROUTE 9W	65	68	70	40
PEDESTRIAN CLEARANCE	13	13	13	13
CHANGE	4	4	4	4
CLEARANCE	2	2	2	2
2. EB & WB CHARLOTTE PLACE	30	27	25	25
CHANGE	4	4	4	4
CLEARANCE	2	2	2	2

TIMING PLAN	HOURS
I	6:30 A.M. - 9:00 A.M., M-F
II	3:30 P.M. - 6:30 P.M., M-F
III	9:00 A.M. - 3:30 P.M., M-F & 8:00 A.M. - 9:00 P.M., SAT & SUN
IV	ALL OTHER TIMES

NOTES:
IF A PEDESTRIAN PUSH BUTTON ACTUATION IS RECEIVED TO CROSS ROUTE 9W, THE CONTROLLERSHALL PROVIDE 7 SECONDS OF "WALK" TIME AND 16 SECONDS OF "FLASHING DON'T WALK" TIME DURING PHASE 2.

THE FOLLOWING ARE THE OFFSETS AS MEASURED FROM THE BEGINNING OF YELLOW OF ROUTE 9W AND PRIVATE DRIVE TO THE BEGINNING OF YELLOW OF ROUTE 9W AT THIS INTERSECTION:

1. TIMING PLAN I - 75 SECONDS BEFORE PRIVATE DRIVE MAINLINE YELLOW.
2. TIMING PLAN II - 42 SECONDS AFTER PRIVATE DRIVE MAINLINE YELLOW.
3. TIMING PLAN III - 41 SECONDS AFTER PRIVATE DRIVE MAINLINE YELLOW.
4. TIMING PLAN IV - 41 SECONDS AFTER PRIVATE DRIVE MAINLINE YELLOW.

ROUTE 9W & JOHN STREET/CLENDENIN PLACE
TEMPORARY TIMING DURING CONSTRUCTION

PHASE	TIME (SECONDS) I	II	III	IV
1. NB & SB ROUTE 9W	50	47	57	27
PEDESTRIAN CLEARANCE	16	16	16	16
CHANGE	4	4	4	4
CLEARANCE	2	2	2	2
2. SOUTHBOUND ROUTE 9W LAG	4	4	4	4
CHANGE	4	4	4	4
CLEARANCE	2	2	2	2
3. EB & WB CHARLOTTE PLACE	32	35	25	25
CHANGE	4	4	4	4
CLEARANCE	2	2	2	2

TIMING PLAN	HOURS
I	6:30 A.M. - 9:00 A.M., M-F
II	3:30 P.M. - 6:30 P.M., M-F
III	9:00 A.M. - 3:30 P.M., M-F & 8:00 A.M. - 9:00 P.M., SAT & SUN
IV	ALL OTHER TIMES

NOTES:
IF A PEDESTRIAN PUSH BUTTON ACTUATION IS RECEIVED TO CROSS ROUTE 9W, THE CONTROLLER SHALL PROVIDE 7 SECONDS OF "WALK" TIME AND 16 SECONDS OF "FLASHING DON'T WALK" TIME DURING PHASE 3.

THE FOLLOWING ARE THE OFFSETS AS MEASURED FROM THE BEGINNING OF YELLOW OF ROUTE 9W AND PRIVATE DRIVE TO THE BEGINNING OF YELLOW OF ROUTE 9W AT THIS INTERSECTION:

1. TIMING PLAN I - 123 SECONDS BEFORE PRIVATE DRIVE MAINLINE YELLOW.
2. TIMING PLAN II - 78 SECONDS AFTER PRIVATE DRIVE MAINLINE YELLOW.
3. TIMING PLAN III - 102 SECONDS AFTER PRIVATE DRIVE MAINLINE YELLOW.
4. TIMING PLAN IV - 91 SECONDS AFTER PRIVATE DRIVE MAINLINE YELLOW.

ROUTE 9W & PALISADE AVENUE
TEMPORARY TIMING DURING CONSTRUCTION

PHASE	TIME (SECONDS) I	II	III	IV
1. NB & SB ROUTE 9W LEFTS	19	19	15	10
CHANGE	3	3	3	3
2. NB & SB ROUTE 9W	26	25	30	6
PEDESTRIAN CLEARANCE	21	21	21	21
CHANGE	4	4	4	4
CLEARANCE	2	2	2	2
3. EASTBOUND PALISADE AVENUE	17	18	17	16
CHANGE	4	4	4	4
CLEARANCE	2	2	2	2
4. WESTBOUND PALISADE AVENUE	16	16	16	16
CHANGE	4	4	4	4
CLEARANCE	2	2	2	2

TIMING PLAN	HOURS
I	6:30 A.M. - 9:00 A.M., M-F
II	3:30 P.M. - 6:30 P.M., M-F
III	9:00 A.M. - 3:30 P.M., M-F & 8:00 A.M. - 9:00 P.M., SAT & SUN
IV	ALL OTHER TIMES

NOTES:
IF A PEDESTRIAN PUSH BUTTON ACTUATION IS RECEIVED TO CROSS ROUTE 9W, THE CONTROLLER SHALL PROVIDE 7 SECONDS OF "WALK" TIME AND 19 SECONDS OF "FLASHING DON'T WALK" TIME DURING PHASE 3.

THE FOLLOWING ARE THE OFFSETS AS MEASURED FROM THE BEGINNING OF YELLOW OF ROUTE 9W AND PRIVATE DRIVE TO THE BEGINNING OF YELLOW OF ROUTE 9W AT THIS INTERSECTION:

1. TIMING PLAN I - 137 SECONDS BEFORE PRIVATE DRIVE MAINLINE YELLOW.
2. TIMING PLAN II - 76 SECONDS AFTER PRIVATE DRIVE MAINLINE YELLOW.
3. TIMING PLAN III - 88 SECONDS AFTER PRIVATE DRIVE MAINLINE YELLOW.
4. TIMING PLAN IV - 77 SECONDS AFTER PRIVATE DRIVE MAINLINE YELLOW.

FILE NAME: p:\1907\cadd\dgn\1907tcs5.dgn
DATE: 02 DEC 2002
USERNAME: AUsclan

PREPARED BY: G. MENZEL
REVIEWED BY: A. GHATTAS
DRAWN BY: A. LISCIANDRELLO

TC-5
TC-5

NEW JERSEY DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND STAGING PLANS

ROUTE 9W SECTION 1J

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RONALD GIAMARIO
N.J. P.E. LICENSE #31556