STATE	FEDERAL PROJECT NO.
N.J.	

NEW JERSEY DEPARTMENT OF TRANSPORTATION
STANDARD LEGEND

BOROUGH OF ENGLEWOOD CLIFFS — **COUNTY OF BERGEN**

SCALE IN METERS
SCALE: 1:300

Existing Manholes

- W — Water Main (Size)
- G — Gas Main (Size)
- T — Telephone Conduit
- E — Electrical Conduit
- E — EXISTING JCT. BOX — E / E — PROPOSED JCT. BOX — E — Electrical Conduit, Highway
- Exist. (Over 750 MM Draw to Size) / RECONSTRUCT (Size and Type) / RESET — Existing Sanitary Sewers and Storm Drains
- Manholes — (SIZE and TYPE) FLOW — Proposed Sanitary Sewers and Storm Drains
- CONCRETE: Exist. / PROPOSED — BITUMINOUS: Exist. / PROPOSED — Shoulders
- Exist. / PROPOSED — Pavements
- (F) (C) / (C) (F) — Slopes
- 2+000 ℄ 2+100 — Base Line
- Existing R.O.W. / PROPOSED R.O.W. — Right of Way Lines Access Permitted
- Existing R.O.W. / PROPOSED R.O.W. — No Access
- Twp., City, County Lines
- Property Line
- Exist. (Size, Sloping or Vertical) / PROPOSED (Size, Sloping or Vertical) — Curbs, Concrete or Bituminous
- Exist. / PROPOSED — Fences
- Exist. / PROPOSED / PROPOSED — Beam Guide Rail / Reset Beam Guide Rail
- Exist. PROP. Vertical Panels — Exist. PROP. End Terminal — Exist. PROP. Beam Guide Rail Anchorage
- Exist. / PROPOSED / RESET CASTING / RECONSTRUCT / EXISTING TEST PIT LOCATION
- Inlets Converted to Manholes / Cast Iron Extension Frame For Existing Inlet

NOTES: Curb pieces for Inlets, Type B are 150 MM unless otherwise indicated
All Inverts and elevations shown are in meters.

- Existing Ditch / Flow — PROPOSED DITCH / FLOW
- Existing Monument — PROPOSED MONUMENT
- Building to be Demolished
- Removal of Concrete Base Course and Concrete Surface Courses — Building to be Removed and Paid for Under Clearing Site
- BENCHMARK B.M. — PROFILE LEVEL LINE — D- PARCEL — Demolition No. & Parcel No. of Building to be Demolished
- Test Pit — Boring Symbol
- Water Gate Valve — Gas Gate Valve — Hydrant
- Pole No. & Type (Guy, Light, Etc.) — Proposed Utility Pole — Proposed Temporary Utility Pole (Temp)
- Deciduous Trees (Size, Kind) — Evergreens
- Bush — Hedges
- Traffic Light — Proposed Traffic Light
- Fiber Optic Junction Box — Proposed Fiber Optic Junction Box
- Junction Box Foundation — Proposed Junction Box Foundation
- Sign — Sewer Vent
- Exist. R.C. End Sect. or C.M. Headwall — Exist. Headwall — Exist. Headwall & Apron
- Prop. R.C. End Sect. or C.M. Headwall — Prop. Headwall — Prop. Headwall & Apron

PROPOSED BRIDGE
Bridge Approach Slabs and Transition Slabs

High Point — Low Point
All Measurements To Face Of Line From Center Line

ITEMS WITH NO ALTERNATE — OR — FOR ALTERNATE PIPE ITEMS (C) CONCRETE (M) METAL

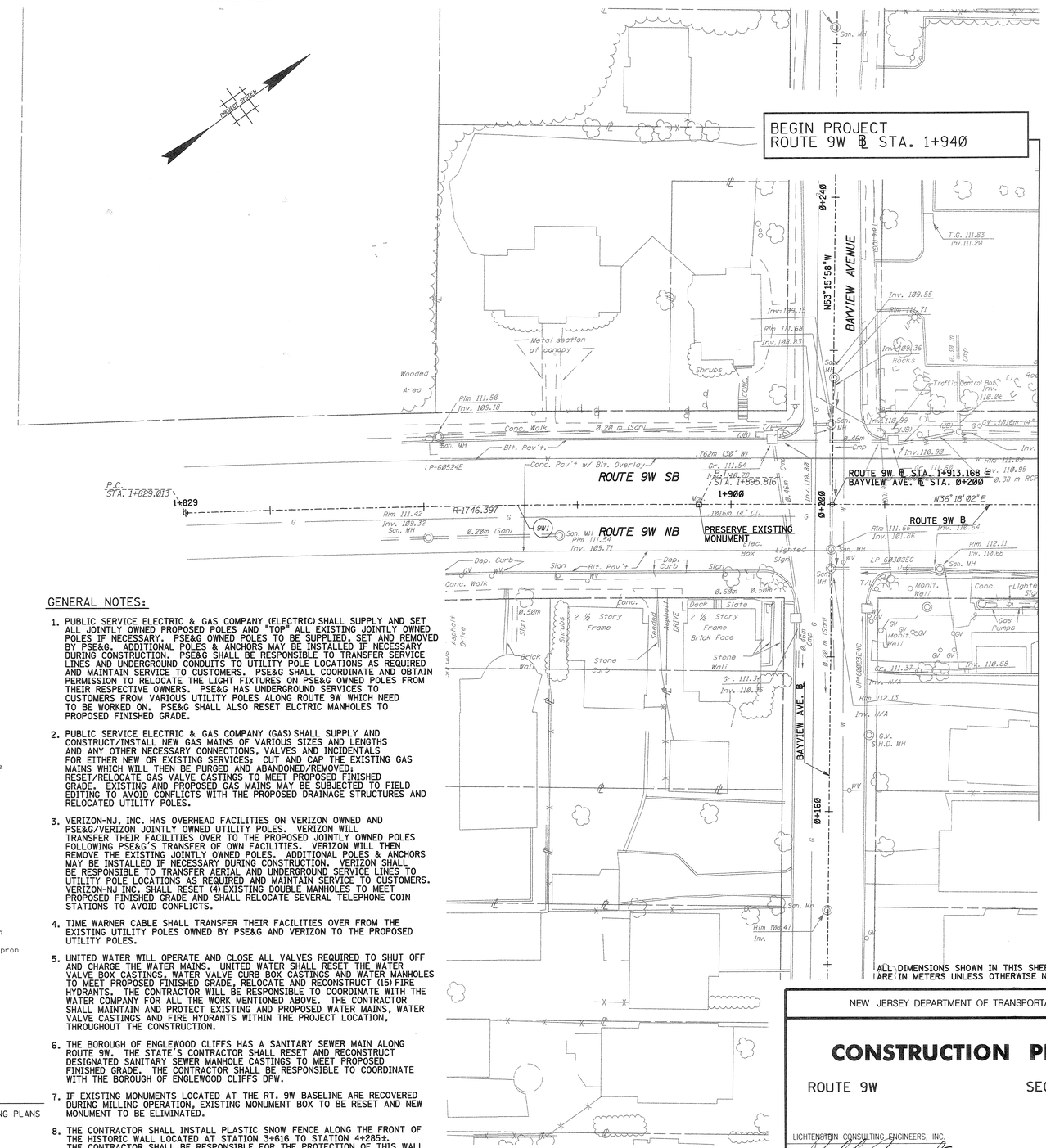
DOUBLE REFERENCE CODES

E-DOQ - EST. & DIST. OF QTY - RDY	T - TIES	TSS - TRAFFIC SIGNING AND STRIPING PLANS
TS - TYPICAL SECTIONS	G - GRADES	STD - SIGN TEXT DETAILS
PSI - PLAN SHEET INDEX	TC - TRAFFIC CONTROL/STAGING PLANS	MS - METHOD OF CROSS SECTIONS
C - CONSTRUCTION PLANS	E - ELECTRICAL PLANS	X - CROSS SECTIONS
EP - ENVIRONMENTAL PLANS	ES - ELECTRICAL SIGNAL PLANS	DTL - CONSTRUCTION DETAILS
D - DRAINAGE PLANS	L - LANDSCAPE PLANS	EOQB - ESTIMATE OF QUANTITIES - BRIDGE
P - PROFILES	SL - SIGN LOCATION PLANS	B - BRIDGE PLANS
CD - CONSTRUCTION DETAILS	DR - DRIVEWAY PROFILES	

NORTH POINT TO BE USED ON STANDARD CONSTRUCTION SHEETS
WHERE BEARINGS REFER TO N.J. PLANE COORDINATE SYSTEM

FILE NAME: p:\1907\cadd\dgn\1907cp01.dgn
DATE: 02 DEC 2002
USERNAME: ALiscian

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



NOTE:
SEE GRADING PLAN FOR CURB RETURN P.C.'S AND P.T.'S STATION AND OFFSET

GENERAL NOTES:

1. PUBLIC SERVICE ELECTRIC & GAS COMPANY (ELECTRIC) SHALL SUPPLY AND SET ALL JOINTLY OWNED PROPOSED POLES AND "TOP" ALL EXISTING JOINTLY OWNED POLES IF NECESSARY. PSE&G OWNED POLES TO BE SUPPLIED, SET AND REMOVED BY PSE&G. ADDITIONAL POLES & ANCHORS MAY BE INSTALLED IF NECESSARY DURING CONSTRUCTION. PSE&G SHALL BE RESPONSIBLE TO TRANSFER SERVICE LINES AND UNDERGROUND CONDUITS TO UTILITY POLE LOCATIONS AS REQUIRED AND MAINTAIN SERVICE TO CUSTOMERS. PSE&G SHALL COORDINATE AND OBTAIN PERMISSION TO RELOCATE THE LIGHT FIXTURES ON PSE&G OWNED POLES FROM THEIR RESPECTIVE OWNERS. PSE&G HAS UNDERGROUND SERVICES TO CUSTOMERS FROM VARIOUS UTILITY POLES ALONG ROUTE 9W WHICH NEED TO BE WORKED ON. PSE&G SHALL ALSO RESET ELCTRIC MANHOLES TO PROPOSED FINISHED GRADE.
2. PUBLIC SERVICE ELECTRIC & GAS COMPANY (GAS) SHALL SUPPLY AND CONSTRUCT/INSTALL NEW GAS MAINS OF VARIOUS SIZES AND LENGTHS AND ANY OTHER NECESSARY CONNECTIONS, VALVES AND INCIDENTALS FOR EITHER NEW OR EXISTING SERVICES; CUT AND CAP THE EXISTING GAS MAINS WHICH WILL THEN BE PURGED AND ABANDONED/REMOVED; RESET/RELOCATE GAS VALVE CASTINGS TO MEET PROPOSED FINISHED GRADE. EXISTING AND PROPOSED GAS MAINS MAY BE SUBJECTED TO FIELD EDITING TO AVOID CONFLICTS WITH THE PROPOSED DRAINAGE STRUCTURES AND RELOCATED UTILITY POLES.
3. VERIZON-NJ, INC. HAS OVERHEAD FACILITIES ON VERIZON OWNED AND PSE&G/VERIZON JOINTLY OWNED UTILITY POLES. VERIZON WILL TRANSFER THEIR FACILITIES OVER TO THE PROPOSED JOINTLY OWNED POLES FOLLOWING PSE&G'S TRANSFER OF OWN FACILITIES. VERIZON WILL THEN REMOVE THE EXISTING JOINTLY OWNED POLES. ADDITIONAL POLES & ANCHORS MAY BE INSTALLED IF NECESSARY DURING CONSTRUCTION. VERIZON SHALL BE RESPONSIBLE TO TRANSFER AERIAL AND UNDERGROUND SERVICE LINES TO UTILITY POLE LOCATIONS AS REQUIRED AND MAINTAIN SERVICE TO CUSTOMERS. VERIZON-NJ INC. SHALL RESET (4) EXISTING DOUBLE MANHOLES TO MEET PROPOSED FINISHED GRADE AND SHALL RELOCATE SEVERAL TELEPHONE COIN STATIONS TO AVOID CONFLICTS.
4. TIME WARNER CABLE SHALL TRANSFER THEIR FACILITIES OVER FROM THE EXISTING UTILITY POLES OWNED BY PSE&G AND VERIZON TO THE PROPOSED UTILITY POLES.
5. UNITED WATER WILL OPERATE AND CLOSE ALL VALVES REQUIRED TO SHUT OFF AND CHARGE THE WATER MAINS. UNITED WATER SHALL RESET THE WATER VALVE BOX CASTINGS, WATER VALVE CURB BOX CASTINGS AND WATER MANHOLES TO MEET PROPOSED FINISHED GRADE, RELOCATE AND RECONSTRUCT (15) FIRE HYDRANTS. THE CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE WITH THE WATER COMPANY FOR ALL THE WORK MENTIONED ABOVE. THE CONTRACTOR SHALL MAINTAIN AND PROTECT EXISTING AND PROPOSED WATER MAINS, WATER VALVE CASTINGS AND FIRE HYDRANTS WITHIN THE PROJECT LOCATION, THROUGHOUT THE CONSTRUCTION.
6. THE BOROUGH OF ENGLEWOOD CLIFFS HAS A SANITARY SEWER MAIN ALONG ROUTE 9W. THE STATE'S CONTRACTOR SHALL RESET AND RECONSTRUCT DESIGNATED SANITARY SEWER MANHOLE CASTINGS TO MEET PROPOSED FINISHED GRADE. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE BOROUGH OF ENGLEWOOD CLIFFS DPW.
7. IF EXISTING MONUMENTS LOCATED AT THE RT. 9W BASELINE ARE RECOVERED DURING MILLING OPERATION, EXISTING MONUMENT BOX TO BE RESET AND NEW MONUMENT TO BE ELIMINATED.
8. THE CONTRACTOR SHALL INSTALL PLASTIC SNOW FENCE ALONG THE FRONT OF THE HISTORIC WALL LOCATED AT STATION 3+616 TO STATION 4+285±. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THIS WALL DURING CONSTRUCTION.

C-1 / C-13

ALL DIMENSIONS SHOWN IN THIS SHEET ARE IN METERS UNLESS OTHERWISE NOTED

NEW JERSEY DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN

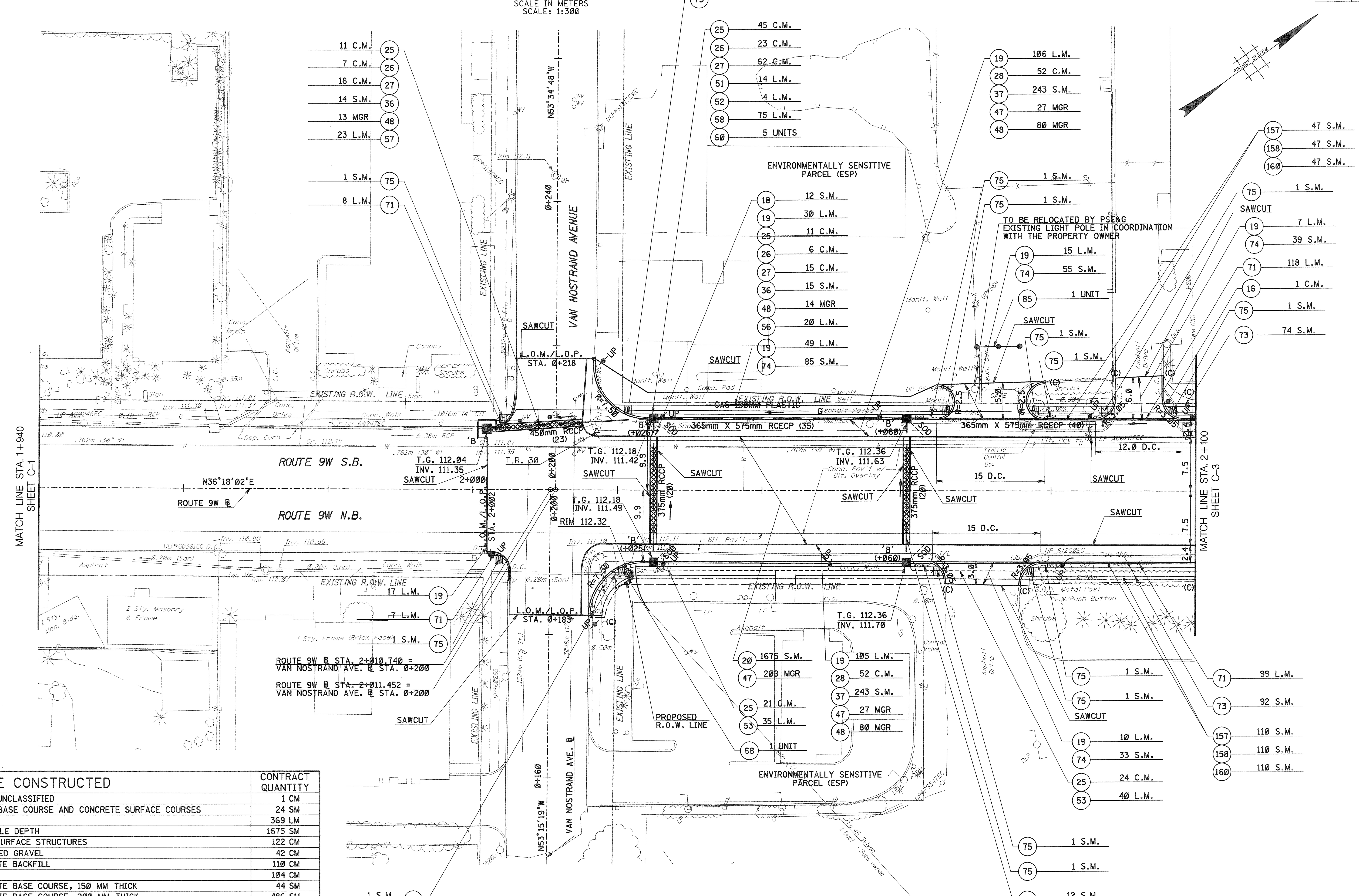
ROUTE 9W — SECTION 1J

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

BOROUGH OF ENGLEWOOD CLIFFS — COUNTY OF BERGEN

SCALE IN METERS
SCALE: 1:300

STATE	FEDERAL PROJECT NO.
N.J.	



PAY ITEM NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
16	2B25B	ROADWAY EXCAVATION, UNCLASSIFIED	1 CM
18	2B17G	REMOVAL OF CONCRETE BASE COURSE AND CONCRETE SURFACE COURSES	24 SM
19	2B50G	SAWCUTTING	369 LM
20	2B25N	MILLING, 50 MM VARIABLE DEPTH	1675 SM
25	2G23E	ROCK EXCAVATION, SUBSURFACE STRUCTURES	122 CM
26	2G10G	BROKEN STONE OR WASHED GRAVEL	42 CM
27	N2G01	DENSE GRADED AGGREGATE BACKFILL	110 CM
28	2H21C	SUBBASE	104 CM
36	3A15D	DENSE GRADED AGGREGATE BASE COURSE, 150 MM THICK	44 SM
37	3A20D	DENSE GRADED AGGREGATE BASE COURSE, 200 MM THICK	486 SM
47	4F02A	SUPERPAVE HOT MIX ASPHALT 12.5H76 SURFACE COURSE	263 MGR
48	4F03C	SUPERPAVE HOT MIX ASPHALT 25H64 BASE COURSE	201 MGR
51	6A05A	SUBBASE OUTLET DRAIN	14 LM
52	6A15B	150 MM CORRUGATED STEEL UNDERDRAIN PIPE	4 LM
53	6A21D	UNDERDRAIN, TYPE F	75 LM
56	6B75G	375 MM REINFORCED CONCRETE CULVERT PIPE, CLASS V	40 LM
57	6B76G	450 MM REINFORCED CONCRETE CULVERT PIPE, CLASS V	23 LM
58	6B82M	365 BY 575 MM REINFORCED CONCRETE ELLIPTICAL CULVERT PIPE, CLASS HE-IV	75 LM
60	6C26C	INLETS, TYPE B	5 UNIT
68	6C22I	RESET CASTINGS	1 UNIT
71	6E15D	225 BY 450 MM CONCRETE VERTICAL CURB	232 LM
73	6G10C	CONCRETE SIDEWALK, 100 MM THICK	166 SM
74	6G60E	HOT MIX ASPHALT DRIVEWAY, VARIABLE THICKNESS	212 SM
75	6G01R	PUBLIC SIDEWALK CURB RAMP DELINEATION	14 SM
85	6N60I	GATES, CHAIN-LINK FENCE, 6.0 M WIDE	1 UNIT
157	8F04C	TOPSOILING, 100 MM THICK	157 SM
158	8H23C	FERTILIZING AND SEEDING, TYPE A-3	157 SM
160	8K31C	STRAW MULCHING	157 SM

FILE NAME: p:\1907\cadd\dgn\1907cp02.dgn
DATE: 02 DEC 2002
USERNAME: ALiscian

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

NOTE:
SEE GRADING PLAN FOR CURB RETURN P.C.'S AND P.T.'S STATION AND OFFSET

ALL DIMENSIONS SHOWN IN THIS SHEET ARE IN METERS UNLESS OTHERWISE NOTED

C-2 / C-13

NEW JERSEY DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN

ROUTE 9W — SECTION 1J

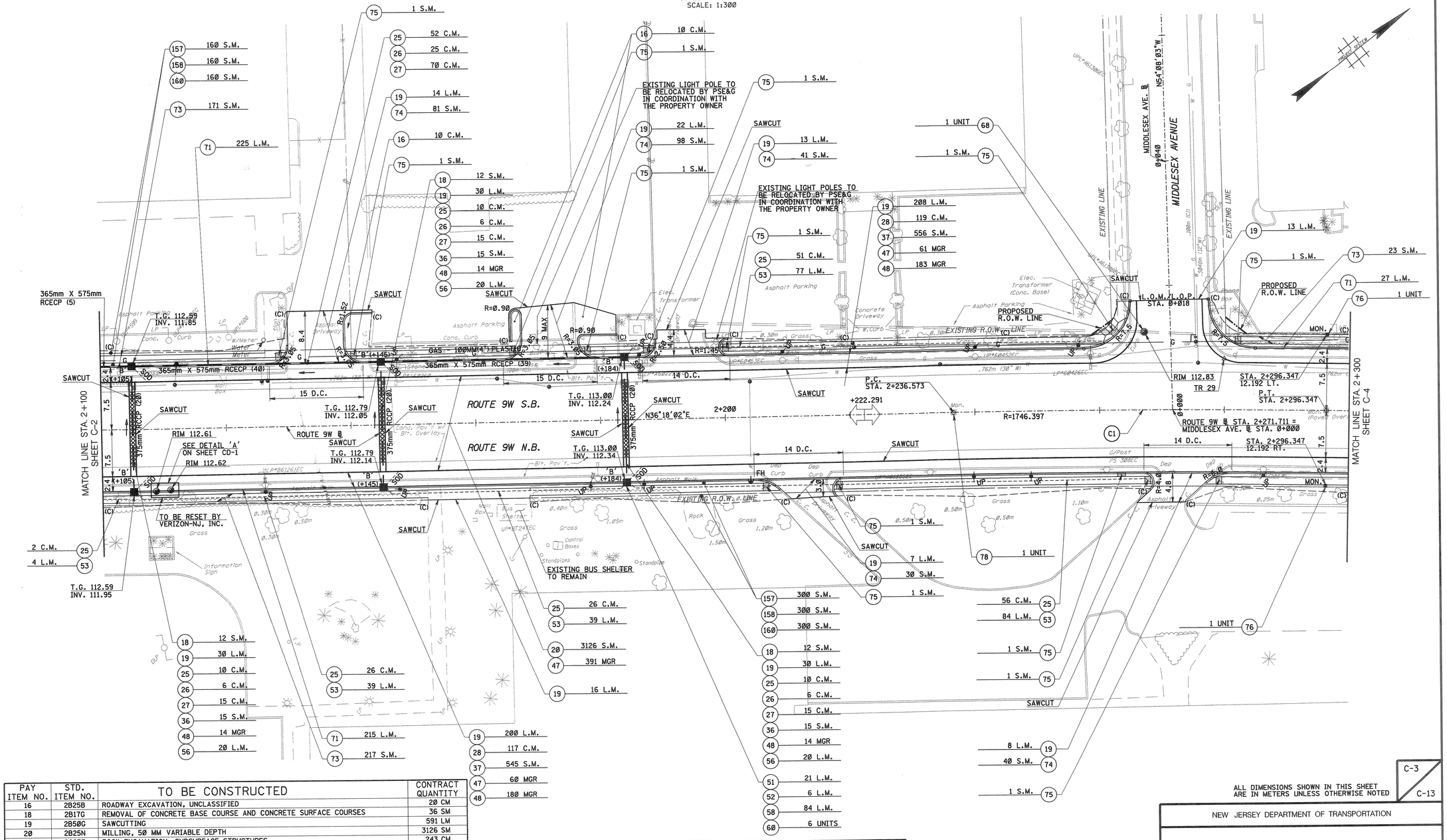
LICHTENSTEIN CONSULTING ENGINEERS, INC.
RONALD GIAMARIO
N.J. P.E. LICENSE #31556

STATE	FEDERAL PROJECT NO.
N.J.	

BOROUGH OF ENGLEWOOD CLIFFS

SCALE IN METERS
SCALE: 1:300

COUNTY OF BERGEN



PAY ITEM NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
16	2B25B	ROADWAY EXCAVATION, UNCLASSIFIED	20 CM
18	2B17G	REMOVAL OF CONCRETE BASE COURSE AND CONCRETE SURFACE COURSES	36 SM
19	2B50G	SAWCUTTING	591 LM
20	2B25N	MILLING, 50 MM VARIABLE DEPTH	3126 SM
25	2G23E	ROCK EXCAVATION, SUBSURFACE STRUCTURES	243 CM
26	2G10G	BROKEN STONE OR WASHED GRAVEL	43 CM
27	N2G01	DENSE GRADED AGGREGATE BACKFILL	115 CM
28	2H21C	SUBBASE	236 CM
36	3A15D	DENSE GRADED AGGREGATE BASE COURSE, 150 MM THICK	45 SM
37	3A20D	DENSE GRADED AGGREGATE BASE COURSE, 200 MM THICK	1101 SM
47	4F02A	SUPERPAVE HOT MIX ASPHALT 12.5H76 SURFACE COURSE	512 MGR
48	4F03C	SUPERPAVE HOT MIX ASPHALT 25H64 BASE COURSE	405 MGR
51	6A05A	SUBBASE OUTLET DRAIN	21 LM
52	6A15B	150 MM CORRUGATED STEEL UNDERDRAIN PIPE	6 LM
53	6A21D	UNDERDRAIN, TYPE F	243 LM
56	6B75G	375 MM REINFORCED CONCRETE CULVERT PIPE, CLASS V	60 LM
58	6B82M	365 BY 575 MM REINFORCED CONCRETE ELLIPTICAL CULVERT PIPE, CLASS HE-IV	84 LM
60	6C26C	INLETS, TYPE B	6 UNIT

PAY ITEM NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
68	6C22I	RESET CASTINGS	1 UNIT
71	6E15D	225 BY 450 MM CONCRETE VERTICAL CURB	467 LM
73	6G10C	CONCRETE SIDEWALK, 100 MM THICK	411 SM
74	6G60E	HOT MIX ASPHALT DRIVEWAY, VARIABLE THICKNESS	290 SM
75	6G01R	PUBLIC SIDEWALK CURB RAMP DELINEATION	13 SM
76	6K21C	MONUMENTS	2 UNIT
78	6K35C	RESET MONUMENT BOXES	1 UNIT
157	8F04C	TOPSOILING, 100 MM THICK	498 SM
158	8H23C	FERTILIZING AND SEEDING, TYPE A-3	498 SM
160	8K31C	STRAW MULCHING	498 SM

NOTE:
SEE GRADING PLAN FOR CURB RETURN P.C.'S AND P.T.'S STATION AND OFFSET

ALL DIMENSIONS SHOWN IN THIS SHEET ARE IN METERS UNLESS OTHERWISE NOTED

C-3 / C-13

NEW JERSEY DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN

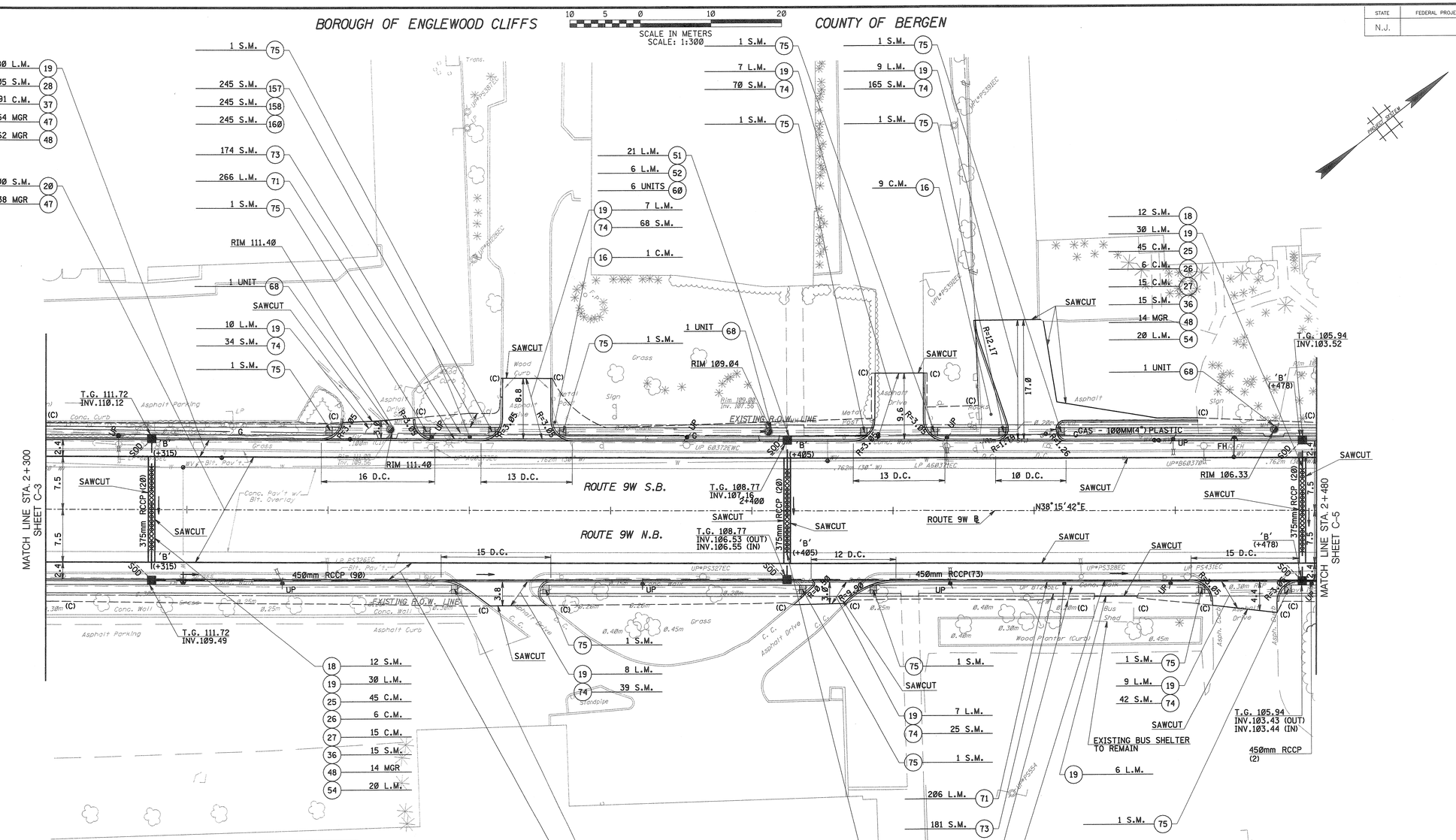
ROUTE 9W — SECTION 1J

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

FILE NAME: p:\1907\cadd\dgn\1907cp03.dgn
DATE: 02 DEC 2002
USERNAME: Albacon

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

STATE	FEDERAL PROJECT NO.
N.J.	



PAY ITEM NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
16	2B25B	ROADWAY EXCAVATION, UNCLASSIFIED	10 CM
18	2B17G	REMOVAL OF CONCRETE BASE COURSE AND CONCRETE SURFACE COURSES	36 SM
19	2B50G	SAWCUTTING	545 LM
20	2B25N	MILLING, 50 MM VARIABLE DEPTH	2700 SM
25	2G23E	ROCK EXCAVATION, SUBSURFACE STRUCTURES	533 CM
26	2G10G	BROKEN STONE OR WASHED GRAVEL	70 CM
27	N2G01	DENSE GRADED AGGREGATE BACKFILL	175 CM
28	2H21C	SUBBASE	210 CM
36	3A15D	DENSE GRADED AGGREGATE BASE COURSE, 150 MM THICK	45 SM
37	3A20D	DENSE GRADED AGGREGATE BASE COURSE, 200 MM THICK	982 SM
47	4F02A	SUPERPAVE HOT MIX ASPHALT 12.5H76 SURFACE COURSE	446 MGR
48	4F03C	SUPERPAVE HOT MIX ASPHALT 25H64 BASE COURSE	366 MGR
51	6A05A	SUBBASE OUTLET DRAIN	21 LM
52	6A15B	150 MM CORRUGATED STEEL UNDERDRAIN PIPE	6 LM
54	6B54G	375 MM REINFORCED CONCRETE CULVERT PIPE, CLASS IV	60 LM
55	6B55G	450 MM REINFORCED CONCRETE CULVERT PIPE, CLASS IV	165 LM
60	6C26C	INLETS, TYPE B	6 UNIT
68	6C22I	RESET CASTINGS	3 UNIT
71	6E15D	225 BY 450 MM CONCRETE VERTICAL CURB	472 LM
73	6G10C	CONCRETE SIDEWALK, 100 MM THICK	355 SM
74	6G60E	HOT MIX ASPHALT DRIVEWAY, VARIABLE THICKNESS	443 SM
75	6G01R	PUBLIC SIDEWALK CURB RAMP DELINEATION	14 SM
157	8F04C	TOPSOILING, 100 MM THICK	540 SM
158	8H23C	FERTILIZING AND SEEDING, TYPE A-3	540 SM
160	8K31C	STRAW MULCHING	540 SM

NOTE:
SEE GRADING PLAN FOR CURB RETURN P.C.'S AND P.T.'S STATION AND OFFSET

ALL DIMENSIONS SHOWN IN THIS SHEET ARE IN METERS UNLESS OTHERWISE NOTED

C-4 / C-13

NEW JERSEY DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN

ROUTE 9W — SECTION 1J

LICHTENSTEIN CONSULTING ENGINEERS, INC.

RONALD GIAMARIO

N.J. P.E. LICENSE #31556

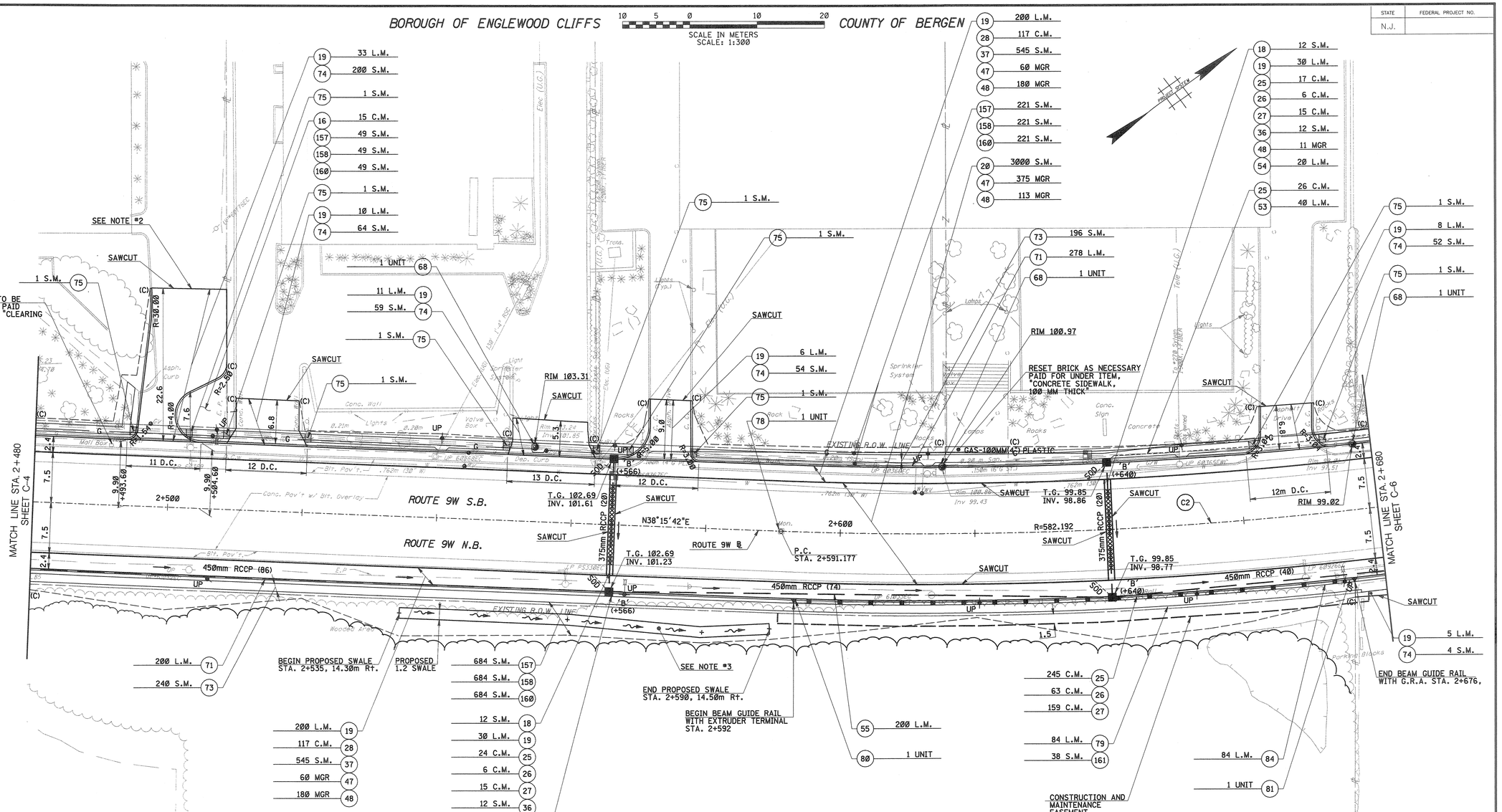
FILE NAME: p:\1907\cadd\dgn\1907cp04.dgn
DATE: 02 DEC 2002
USERNAME: ALiscian

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

STATE	FEDERAL PROJECT NO.
N.J.	

BOROUGH OF ENGLEWOOD CLIFFS — COUNTY OF BERGEN

SCALE IN METERS
SCALE: 1:300



PAY ITEM NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
16	2B25B	ROADWAY EXCAVATION, UNCLASSIFIED	15 CM
18	2B17G	REMOVAL OF CONCRETE BASE COURSE AND CONCRETE SURFACE COURSES	24 SM
19	2B50G	SAWCUTTING	533 LM
20	2B25N	MILLING, 50 MM VARIABLE DEPTH	3000 SM
25	2G23E	ROCK EXCAVATION, SUBSURFACE STRUCTURES	312 CM
26	2G10G	BROKEN STONE OR WASHED GRAVEL	75 CM
27	N2G01	DENSE GRADED AGGREGATE BACKFILL	189 CM
28	2H21C	SUBBASE	234 CM
36	3A15D	DENSE GRADED AGGREGATE BASE COURSE, 150 MM THICK	24 SM
37	3A20D	DENSE GRADED AGGREGATE BASE COURSE, 200 MM THICK	1090 SM
47	4F02A	SUPERPAVE HOT MIX ASPHALT 12.5H76 SURFACE COURSE	495 MGR
48	4F03C	SUPERPAVE HOT MIX ASPHALT 25H64 BASE COURSE	495 MGR
51	6A05A	SUBBASE OUTLET DRAIN	12 LM
52	6A15B	150 MM CORRUGATED STEEL UNDERDRAIN PIPE	4 LM
53	6A21D	UNDERDRAIN, TYPE F	40 LM
54	6B54G	375 MM REINFORCED CONCRETE CULVERT PIPE, CLASS IV	40 LM
55	6B55G	450 MM REINFORCED CONCRETE CULVERT PIPE, CLASS IV	200 LM
60	6C26C	INLETS, TYPE B	4 UNIT
68	6C22I	RESET CASTINGS	3 UNIT
71	6E15D	225 BY 450 MM CONCRETE VERTICAL CURB	478 LM
73	6G10C	CONCRETE SIDEWALK, 100 MM THICK	436 SM
74	6G60E	HOT MIX ASPHALT DRIVEWAY, VARIABLE THICKNESS	433 SM
75	6G01R	PUBLIC SIDEWALK CURB RAMP DELINEATION	10 SM
78	6K35C	RESET MONUMENT BOXES	1 UNIT

PAY ITEM NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
79	6L21B	BEAM GUIDE RAIL	84 LM
80	6L15C	EXTRUDER TERMINALS	1 UNIT
81	6L41C	BEAM GUIDE RAIL ANCHORAGES	1 UNIT
82	6L11F	RUB RAIL	84 LM
84	6L15R	REMOVAL OF GUIDE RAIL	84 LM
157	8F04C	TOPSOILING, 100 MM THICK	954 SM
158	8H23C	FERTILIZING AND SEEDING, TYPE A-3	954 SM
160	8K31C	STRAW MULCHING	954 SM
161	8N05B	NONVEGETATIVE SURFACE, HOT MIX ASPHALT	38 SM

NOTE:
1. SEE GRADING PLAN FOR CURB RETURN P.C.'S AND P.T.'S STATION AND OFFSET
2. LIMIT OF GRADING LINE SHOWN ON THE ROW PLANS INDICATES THAT THE OWNER GAVE THE RIGHT OF ENTRY TO THE DEPARTMENT TO ALLOW THE CONTRACTOR TO GRADE THE DRIVEWAY.
3. A DRAINAGE EASEMENT IS ACQUIRED TO COVER WORK PERFORMED OUTSIDE THE ROW ((SEE ROW PLANS)

ALL DIMENSIONS SHOWN IN THIS SHEET ARE IN METERS UNLESS OTHERWISE NOTED

C-5 / C-13

NEW JERSEY DEPARTMENT OF TRANSPORTATION

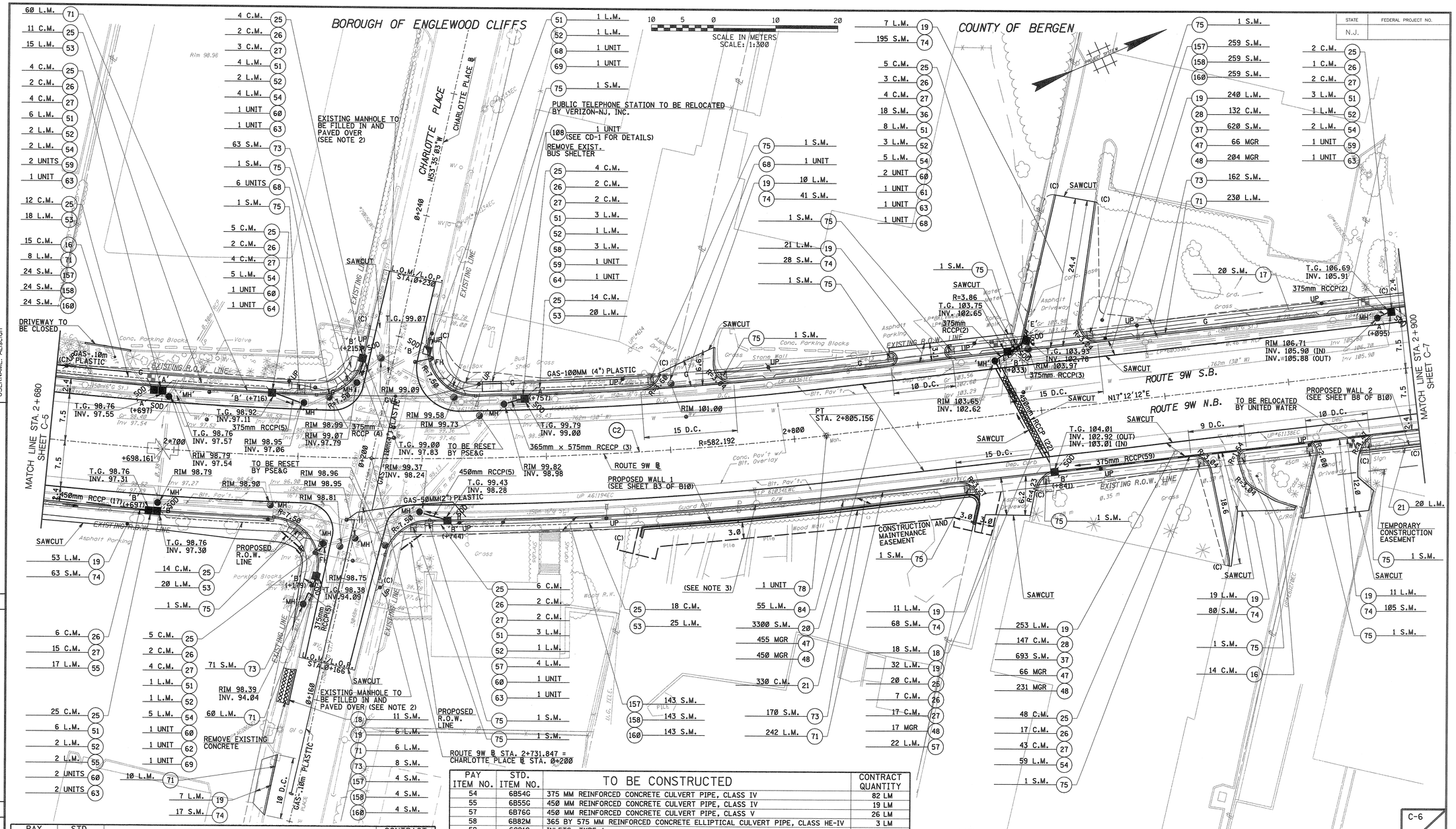
CONSTRUCTION PLAN

ROUTE 9W — SECTION 1J

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

FILE NAME: p:\1907\cadd\dgn\1907cp05.dgn
DATE: 11 DEC 2002
USERNAME: JHernand

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



PAY ITEM NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
16	2B25B	ROADWAY EXCAVATION, UNCLASSIFIED	29 CM
17	2B10D	PRESPLITTING	20 SM
18	2B17G	REMOVAL OF CONCRETE BASE COURSE AND CONCRETE SURFACE COURSES	29 SM
19	2B50G	SAWCUTTING	670 LM
20	2B25N	MILLING, 50 MM VARIABLE DEPTH	3300 SM
21	2C02A	POROUS FILL	330 CM
25	2G23E	ROCK EXCAVATION, SUBSURFACE STRUCTURES	197 CM
26	2G10G	BROKEN STONE OR WASHED GRAVEL	46 CM
27	N2G01	DENSE GRADED AGGREGATE BACKFILL	100 CM
28	2H21C	SUBBASE	279 CM
36	3A15D	DENSE GRADED AGGREGATE BASE COURSE, 150 MM THICK	18 SM
37	3A20D	DENSE GRADED AGGREGATE BASE COURSE, 200 MM THICK	1313 SM
47	4F02A	SUPERPAVE HOT MIX ASPHALT 12.5H76 SURFACE COURSE	587 MGR
48	4F03C	SUPERPAVE HOT MIX ASPHALT 25H64 BASE COURSE	902 MGR
51	6A05A	SUBBASE OUTLET DRAIN	35 LM
52	6A15B	150 MM CORRUGATED STEEL UNDERDRAIN PIPE	14 LM
53	6A21D	UNDERDRAIN, TYPE F	98 LM

PAY ITEM NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
54	6B54G	375 MM REINFORCED CONCRETE CULVERT PIPE, CLASS IV	82 LM
55	6B55G	450 MM REINFORCED CONCRETE CULVERT PIPE, CLASS IV	19 LM
57	6B76G	450 MM REINFORCED CONCRETE CULVERT PIPE, CLASS V	26 LM
58	6B82M	365 BY 575 MM REINFORCED CONCRETE ELLIPTICAL CULVERT PIPE, CLASS HE-IV	3 LM
59	6C21C	INLETS, TYPE A	4 UNIT
60	6C26C	INLETS, TYPE B	8 UNIT
61	6C36C	INLETS, TYPE E	1 UNIT
62	6C21E	INLETS CONVERTED TO MANHOLES	1 UNIT
63	6C31E	MANHOLES	7 UNIT
64	6C33E	MANHOLES, 1.8 M DIAMETER	2 UNIT
68	6C22I	RESET CASTINGS	9 UNIT
69	6C21P	CLEANING EXISTING DRAINAGE STRUCTURES	2 UNIT
71	6E15D	225 BY 450 MM CONCRETE VERTICAL CURB	616 LM
73	6G10C	CONCRETE SIDEWALK, 100 MM THICK	474 SM
74	6G60E	HOT MIX ASPHALT DRIVEWAY, VARIABLE THICKNESS	597 SM
75	6G01R	PUBLIC SIDEWALK CURB RAMP DELINEATION	18 SM
78	6K35C	RESET MONUMENT BOXES	1 UNIT
84	6L15R	REMOVAL OF GUIDE RAIL	55 LM
109	N6V02	BUS SHELTERS	1 UNIT
157	8F04C	TOPSOILING, 100 MM THICK	430 SM
158	8H23C	FERTILIZING AND SEEDING, TYPE A-3	430 SM
160	8K31C	STRAW MULCHING	430 SM

NOTES:

1. SEE GRADING PLAN FOR CURB RETURN P.C.'S AND P.T.'S STATION AND OFFSET
2. RESIDENT ENGINEER TO VERIFY WITH D.P.W. PRIOR TO FILLING AND PAVING OVER
3. PSE&G SHALL TEMPORARILY REMOVE EXISTING UTILITY POLE DURING CONSTRUCTION OF THE RETAINING WALL. THE POLE SHALL BE PLACED WITHIN THE GRASS STRIP FOLLOWING THE COMPLETION OF THE PROPOSED WALL.

ALL DIMENSIONS SHOWN IN THIS SHEET ARE IN METERS UNLESS OTHERWISE NOTED

C-6 / C-13

STATE	FEDERAL PROJECT NO.
N.J.	

NEW JERSEY DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN

ROUTE 9W — SECTION 1J

LICHTENSTEIN CONSULTING ENGINEERS, INC.

RONALD GIAMARIO

N.J. P.E. LICENSE #31556

FILE NAME: p:\1907\cadd\dgn\1907cp06.dgn
DATE: 02 DEC 2002
USERNAME: ALisciandrello

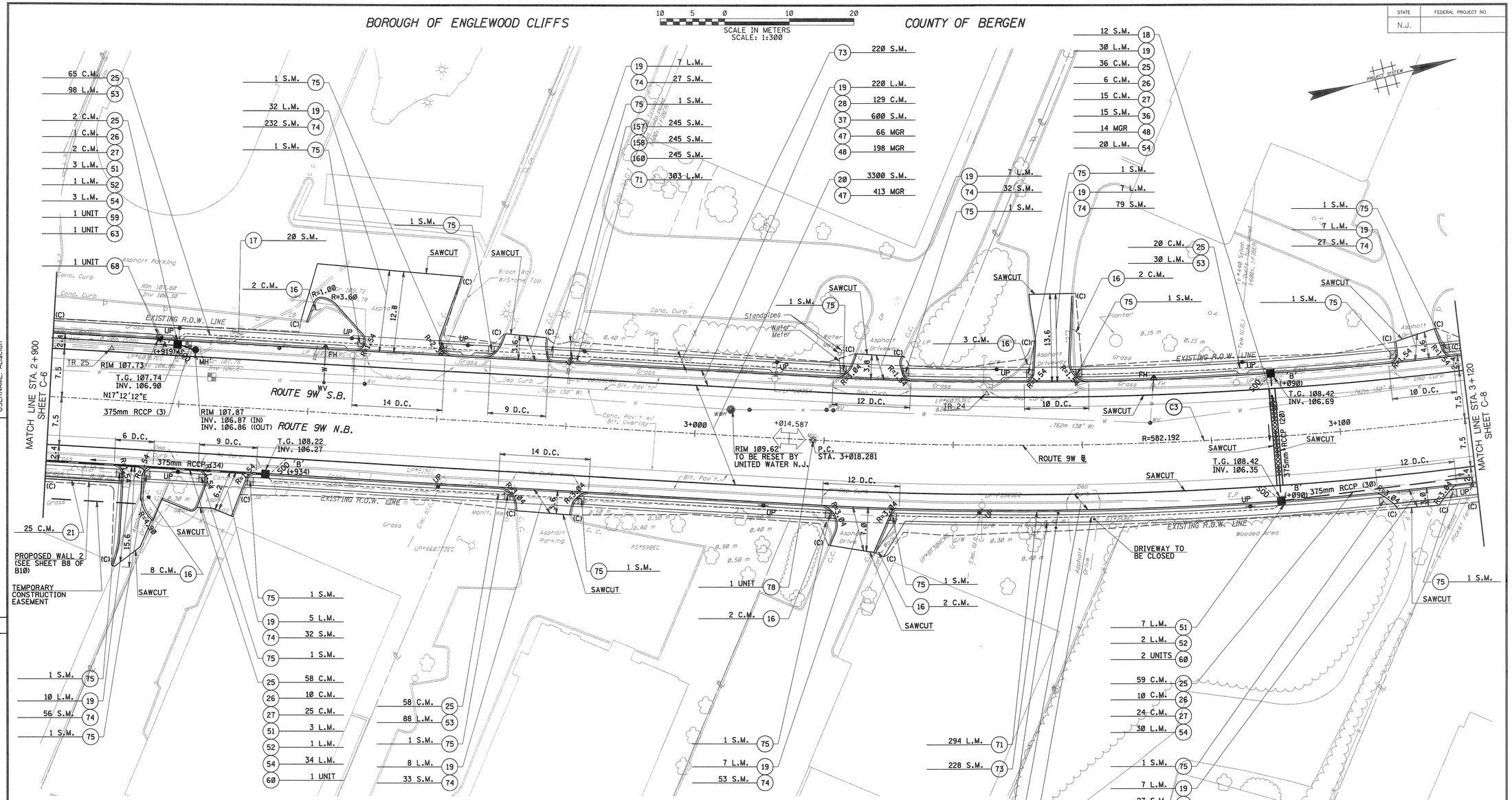
PREPARED BY: G. MENZEL
REVIEWED BY: A. GHATTAS
DRAWN BY: A. LISCIANDRELLO

STATE	FEDERAL PROJECT NO.
N.J.	

BOROUGH OF ENGLEWOOD CLIFFS

COUNTY OF BERGEN

SCALE IN METERS
SCALE: 1:300



PAY ITEM NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
16	2B25B	ROADWAY EXCAVATION, UNCLASSIFIED	19 CM
17	2B10D	PRESPLITTING	20 SM
18	2B17G	REMOVAL OF CONCRETE BASE COURSE AND CONCRETE SURFACE COURSES	12 SM
19	2B50G	SAWCUTTING	567 LM
20	2B25N	MILLING, 50 MM VARIABLE DEPTH	3300 SM
21	2C02A	POROUS FILL	25 CM
25	2G23E	ROCK EXCAVATION, SUBSURFACE STRUCTURES	338 CM
26	2G10G	BROKEN STONE OR WASHED GRAVEL	27 CM
27	N2G01	DENSE GRADED AGGREGATE BACKFILL	66 CM
28	2H21C	SUBBASE	258 CM
36	3A15D	DENSE GRADED AGGREGATE BASE COURSE, 150 MM THICK	15 SM
37	3A20D	DENSE GRADED AGGREGATE BASE COURSE, 200 MM THICK	1200 SM
47	4F02A	SUPERPAVE HOT MIX ASPHALT 12.5H76 SURFACE COURSE	545 MGR
48	4F03C	SUPERPAVE HOT MIX ASPHALT 25H64 BASE COURSE	410 MGR
51	6A05A	SUBBASE OUTLET DRAIN	13 LM
52	6A15B	150 MM CORRUGATED STEEL UNDERDRAIN PIPE	4 LM
53	6A21D	UNDERDRAIN, TYPE F	276 LM
54	6B54G	375 MM REINFORCED CONCRETE CULVERT PIPE, CLASS IV	87 LM
59	6C21C	INLETS, TYPE A	1 UNIT
60	6C26C	INLETS, TYPE B	3 UNIT

PAY ITEM NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
63	6C31E	MANHOLES	1 UNIT
68	6C22I	RESET CASTINGS	1 UNIT
71	6E15D	225 BY 450 MM CONCRETE VERTICAL CURB	597 LM
73	6G10C	CONCRETE SIDEWALK, 100 MM THICK	448 SM
74	6G60E	HOT MIX ASPHALT DRIVEWAY, VARIABLE THICKNESS	598 SM
75	6G01R	PUBLIC SIDEWALK CURB RAMP DELINEATION	20 SM
78	6K35C	RESET MONUMENT BOXES	1 UNIT
157	8F04C	TOPSOILING, 100 MM THICK	545 SM
158	8H23C	FERTILIZING AND SEEDING, TYPE A-3	545 SM
160	8K31C	STRAW MULCHING	545 SM

NOTE:
SEE GRADING PLAN FOR CURB RETURN P.C.'S AND P.T.'S STATION AND OFFSET

ALL DIMENSIONS SHOWN IN THIS SHEET ARE IN METERS UNLESS OTHERWISE NOTED

C-7 / C-13

NEW JERSEY DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN

ROUTE 9W — SECTION 1J

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

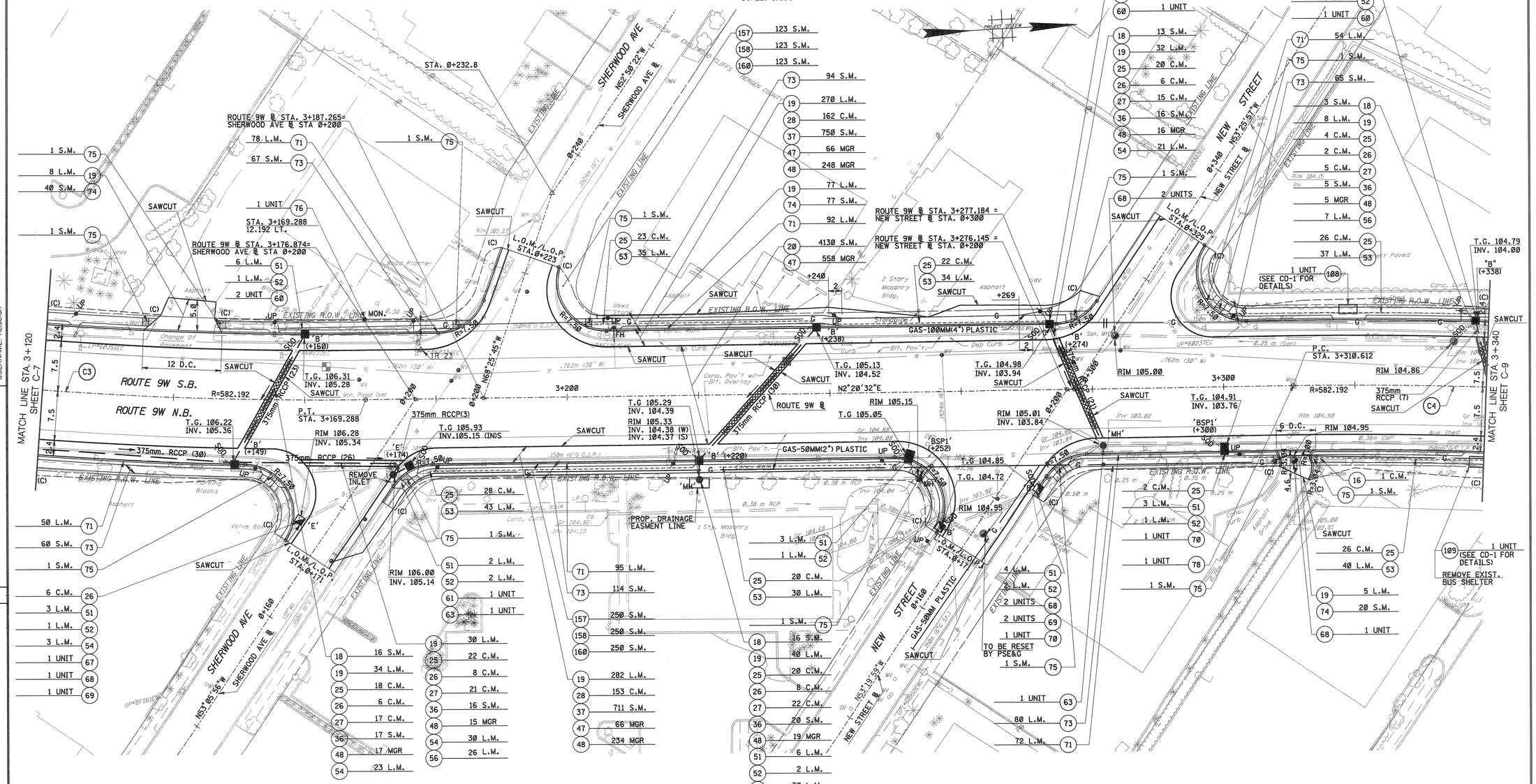
FILE NAME: p:\1907\cadd\dgn\1907cp07.dgn
DATE: 02 DEC 2002
USERNAME: ALiscian

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

STATE	FEDERAL PROJECT NO.
N.J.	

BOROUGH OF ENGLEWOOD CLIFFS — COUNTY OF BERGEN

SCALE IN METERS
SCALE: 1:300



PAY ITEM NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
16	2B25B	ROADWAY EXCAVATION, UNCLASSIFIED	1 CM
18	2B17G	REMOVAL OF CONCRETE BASE COURSE AND CONCRETE SURFACE COURSES	48 SM
19	2B50G	SAWCUTTING	786 LM
20	2B25N	MILLING, 50 MM VARIABLE DEPTH	4130 SM
25	2G23E	ROCK EXCAVATION, SUBSURFACE STRUCTURES	231 CM
26	2G10G	BROKEN STONE OR WASHED GRAVEL	30 CM
27	N2G01	DENSE GRADED AGGREGATE BACKFILL	80 CM
28	2H21C	SUBBASE	315 CM
36	3A15D	DENSE GRADED AGGREGATE BASE COURSE, 150 MM THICK	74 SM
37	3A20D	DENSE GRADED AGGREGATE BASE COURSE, 200 MM THICK	1461 SM
47	4F02A	SUPERPAVE HOT MIX ASPHALT 12.5H76 SURFACE COURSE	690 MGR
48	4F03C	SUPERPAVE HOT MIX ASPHALT 25H64 BASE COURSE	554 MGR
51	6A05A	SUBBASE OUTLET DRAIN	33 LM
52	6A15B	150 MM CORRUGATED STEEL UNDERDRAIN PIPE	12 LM
53	6A21D	UNDERDRAIN, TYPE F	219 LM
54	6B54G	375 MM REINFORCED CONCRETE CULVERT PIPE, CLASS IV	77 LM
56	6B75G	375 MM REINFORCED CONCRETE CULVERT PIPE, CLASS V	63 LM
60	6C26C	INLETS, TYPE B	6 UNIT
61	6C36C	INLETS, TYPE E	1 UNIT
63	6C31E	MANHOLES	3 UNIT
67	6C41H	INLET CASTINGS, TYPE E	1 UNIT

PAY ITEM NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
68	6C22I	RESET CASTINGS	6 UNIT
69	6C21P	CLEANING EXISTING DRAINAGE STRUCTURES	3 UNIT
70	N6C01	INLETS, TYPE B-SP1	2 UNIT
71	6E15D	225 BY 450 MM CONCRETE VERTICAL CURB	441 LM
73	6G10C	CONCRETE SIDEWALK, 100 MM THICK	480 SM
74	6G60E	HOT MIX ASPHALT DRIVEWAY, VARIABLE THICKNESS	137 SM
75	6G01R	PUBLIC SIDEWALK CURB RAMP DELINEATION	12 SM
76	6K21C	MONUMENTS	1 UNIT
78	6K35C	RESET MONUMENT BOXES	1 UNIT
108	N6V01	RELOCATE BUS SHELTERS	1 UNIT
109	N6V02	BUS SHELTERS	1 UNIT
157	8F04C	TOPSOILING, 100 MM THICK	373 SM
158	8H23C	FERTILIZING AND SEEDING, TYPE A-3	373 SM
160	8K31C	STRAW MULCHING	373 SM

NOTE:
SEE GRADING PLAN FOR CURB RETURN P.C.'S AND P.T.'S STATION AND OFFSET

ALL DIMENSIONS SHOWN IN THIS SHEET ARE IN METERS UNLESS OTHERWISE NOTED

C-8 / C-13

NEW JERSEY DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN

ROUTE 9W — SECTION 1J

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

FILE NAME: p:\1907\cadd\dgn\1907cp08.dgn
DATE: 20 DEC 2002
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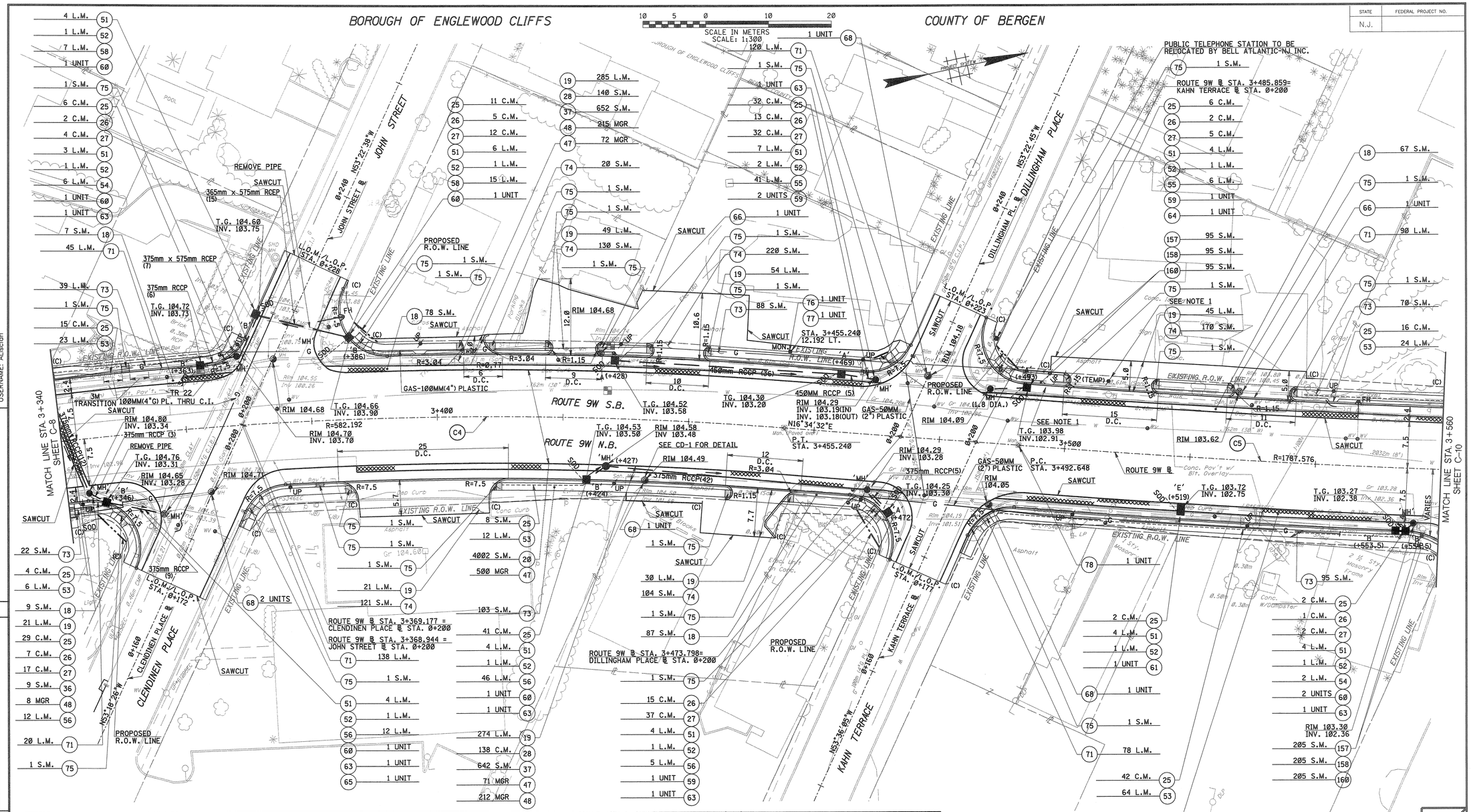
PREPARED BY: G. MENZEL
REVIEWED BY: A. GHATTAS
DRAWN BY: A. LISCIANDRELLO

STATE	FEDERAL PROJECT NO.
N.J.	



PAY ITEM NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
18	2B17G	REMOVAL OF CONCRETE BASE COURSE AND CONCRETE SURFACE COURSES	318 SM
19	2B50G	SAWCUTTING	779 LM
20	2B25N	MILLING, 50 MM VARIABLE DEPTH	4002 SM
25	2G23E	ROCK EXCAVATION, SUBSURFACE STRUCTURES	214 CM
26	2G10G	BROKEN STONE OR WASHED GRAVEL	45 CM
27	N2G01	DENSE GRADED AGGREGATE BACKFILL	109 CM
28	2H21C	SUBBASE	278 CM
36	3A15D	DENSE GRADED AGGREGATE BASE COURSE, 150 MM THICK	9 SM
37	3A20D	DENSE GRADED AGGREGATE BASE COURSE, 200 MM THICK	1294 SM
47	4F02A	SUPERPAVE HOT MIX ASPHALT 12.5H76 SURFACE COURSE	643 MGR
48	4F03C	SUPERPAVE HOT MIX ASPHALT 25H64 BASE COURSE	435 MGR
51	6A05A	SUBBASE OUTLET DRAIN	44 LM
52	6A15B	150 MM CORRUGATED STEEL UNDERDRAIN PIPE	11 LM
53	6A21D	UNDERDRAIN, TYPE F	129 LM
54	6B54G	375 MM REINFORCED CONCRETE CULVERT PIPE, CLASS IV	8 LM
55	6B55G	450 MM REINFORCED CONCRETE CULVERT PIPE, CLASS IV	47 LM
56	6B75G	375 MM REINFORCED CONCRETE CULVERT PIPE, CLASS V	75 LM
58	6B82M	365 BY 575 MM REINFORCED CONCRETE ELLIPTICAL CULVERT PIPE, CLASS HE-IV	22 LM
59	6C21C	INLETS, TYPE A	4 UNIT

PAY ITEM NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
60	6C26C	INLETS, TYPE B	7 UNIT
61	6C36C	INLETS, TYPE E	1 UNIT
63	6C31E	MANHOLES	6 UNIT
64	6C33E	MANHOLES, 1.8 M DIAMETER	1 UNIT
65	6C22G	RECONSTRUCTED MANHOLES, USING EXISTING CASTING	1 UNIT
66	6C47G	RECONSTRUCTED MANHOLES, SANITARY SEWER, USING EXISTING CASTING	2 UNIT
68	6C22I	RESET CASTINGS	5 UNIT
71	6E15D	225 BY 450 MM CONCRETE VERTICAL CURB	491 LM
73	6G10C	CONCRETE SIDEWALK, 100 MM THICK	417 SM
74	6G60E	HOT MIX ASPHALT DRIVEWAY, VARIABLE THICKNESS	765 SM
75	6G01R	PUBLIC SIDEWALK CURB RAMP DELINEATION	24 SM
76	6K21C	MONUMENTS	1 UNIT
77	6K25C	MONUMENT BOXES	1 UNIT
78	6K35C	RESET MONUMENT BOXES	1 UNIT
157	8F04C	TOPSOILING, 100 MM THICK	288 SM
158	8H23C	FERTILIZING AND SEEDING, TYPE A-3	288 SM
160	8K31C	STRAW MULCHING	288 SM

NOTES:

1. SEE GRADING PLAN FOR CURB RETURN P.C.'S AND P.T.'S STATION AND OFFSET
2. CONTRACTOR TO COORDINATE WITH PSE&G TO RELOCATE TEMPORARY UTILITY POLE DURING CONSTRUCTION TO PROPOSED LOCATION

ALL DIMENSIONS SHOWN IN THIS SHEET ARE IN METERS UNLESS OTHERWISE NOTED

C-9 / C-13

NEW JERSEY DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN

ROUTE 9W — SECTION 1J

LICHTENSTEIN CONSULTING ENGINEERS, INC.

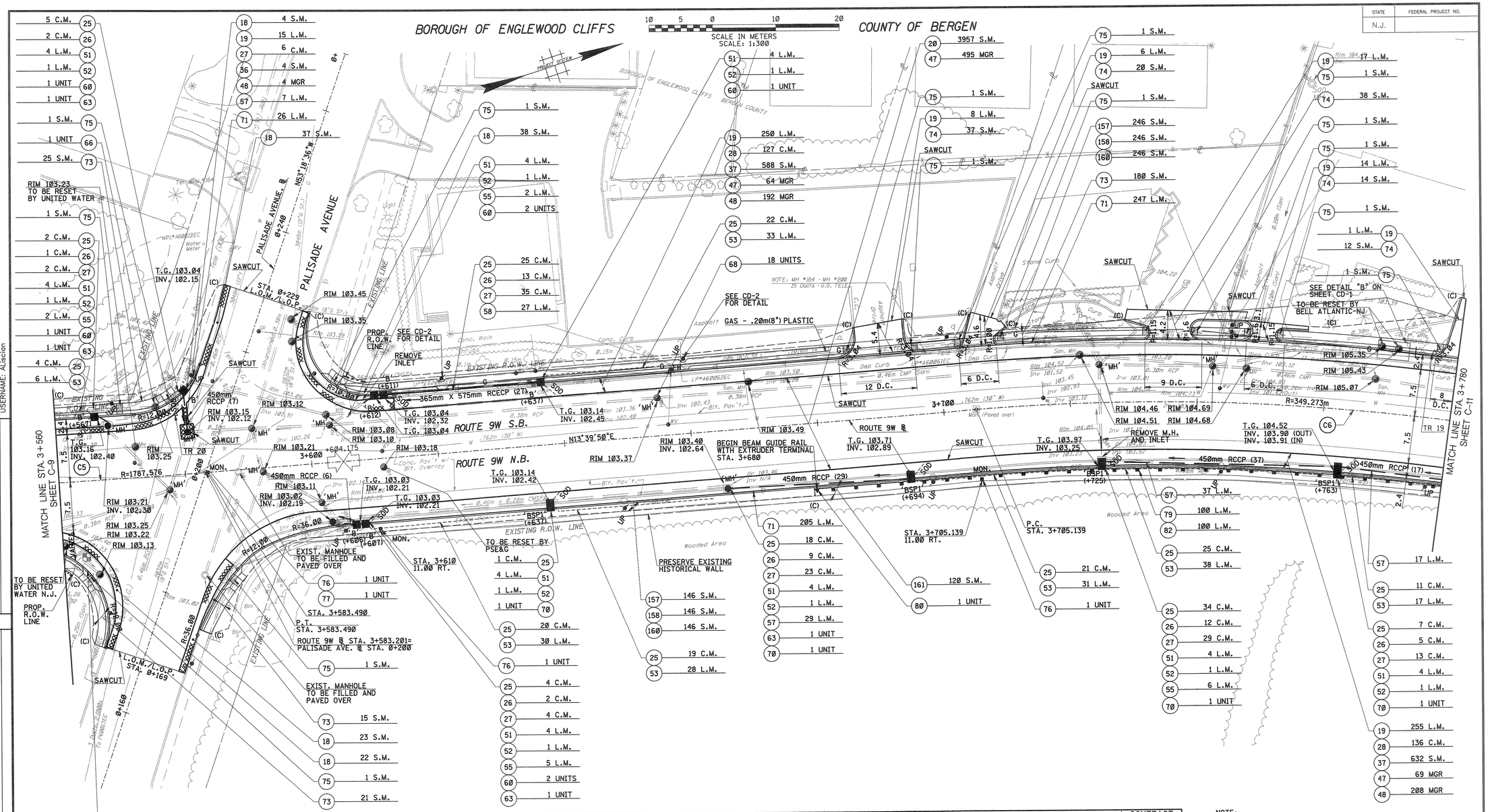
RONALD GIAMARIO

N.J. P.E. LICENSE #31556

FILE NAME: p:\1907\cadd\dgn\1907cp09.dgn
DATE: 02 DEC 2002
USERNAME: ALiscion

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

STATE	FEDERAL PROJECT NO.
N.J.	



PAY ITEM NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
18	2B17G	REMOVAL OF CONCRETE BASE COURSE AND CONCRETE SURFACE COURSES	124 SM
19	2B50G	SAWCUTTING	566 LM
20	2B25N	MILLING, 50 MM VARIABLE DEPTH	3957 SM
25	2G23E	ROCK EXCAVATION, SUBSURFACE STRUCTURES	219 CM
26	2G10G	BROKEN STONE OR WASHED GRAVEL	44 CM
27	N2G01	DENSE GRADED AGGREGATE BACKFILL	112 CM
28	2H21C	SUBBASE	263 CM
36	3A15D	DENSE GRADED AGGREGATE BASE COURSE, 150 MM THICK	4 SM
37	3A20D	DENSE GRADED AGGREGATE BASE COURSE, 200 MM THICK	1220 SM
47	4F02A	SUPERPAVE HOT MIX ASPHALT 12.5H76 SURFACE COURSE	628 MGR
48	4F03C	SUPERPAVE HOT MIX ASPHALT 25H64 BASE COURSE	404 MGR
51	6A05A	SUBBASE OUTLET DRAIN	36 LM
52	6A15B	150 MM CORRUGATED STEEL UNDERDRAIN PIPE	9 LM
53	6A21D	UNDERDRAIN, TYPE F	183 LM
55	6B55G	450 MM REINFORCED CONCRETE CULVERT PIPE, CLASS IV	15 LM
57	6B76G	450 MM REINFORCED CONCRETE CULVERT PIPE, CLASS V	90 LM
58	6B82M	365 BY 575 MM REINFORCED CONCRETE ELLIPTICAL CULVERT PIPE, CLASS HE-IV	27 LM
60	6C26C	INLETS, TYPE B	7 UNIT
63	6C31E	MANHOLES	4 UNIT
66	6C47G	RECONSTRUCTED MANHOLES, SANITARY SEWER, USING EXISTING CASTING	1 UNIT

PAY ITEM NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
68	6C22I	RESET CASTINGS	16 UNIT
70	N6C01	INLETS, TYPE B-SP1	4 UNIT
71	6E15D	225 BY 450 MM CONCRETE VERTICAL CURB	497 LM
73	6G10C	CONCRETE SIDEWALK, 100 MM THICK	241 SM
74	6G60E	HOT MIX ASPHALT DRIVEWAY, VARIABLE THICKNESS	121 SM
75	6G01R	PUBLIC SIDEWALK CURB RAMP DELINEATION	14 SM
76	6K21C	MONUMENTS	3 UNIT
77	6K25C	MONUMENT BOXES	1 UNIT
79	6L21B	BEAM GUIDE RAIL	100 LM
80	6L15C	EXTRUDER TERMINALS	1 UNIT
82	6L11F	RUB RAIL	100 LM
157	8F04C	TOPSOILING, 100 MM THICK	392 SM
158	8H23C	FERTILIZING AND SEEDING, TYPE A-3	392 SM
160	8K31C	STRAW MULCHING	392 SM
161	8N05B	NONVEGETATIVE SURFACE, HOT MIX ASPHALT	120 SM

NOTE:
SEE GRADING PLAN FOR CURB RETURN P.C.'S AND P.T.'S STATION AND OFFSET

ALL DIMENSIONS SHOWN IN THIS SHEET ARE IN METERS UNLESS OTHERWISE NOTED

C-10 / C-13

NEW JERSEY DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN

ROUTE 9W — SECTION 1J

LICHTENSTEIN CONSULTING ENGINEERS, INC.

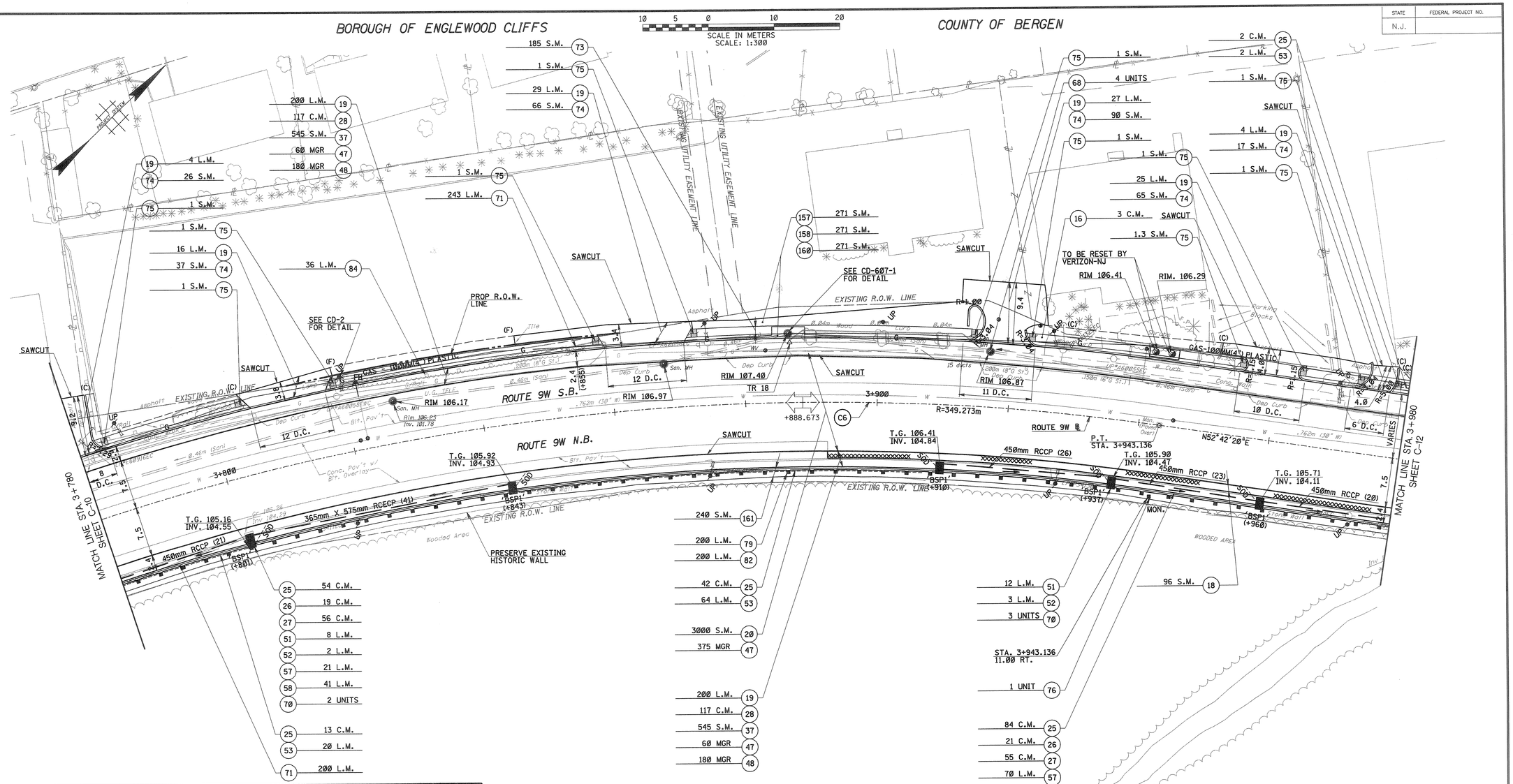
RONALD GIAMARIO

N.J. P.E. LICENSE #31556

FILE NAME: p:\1907\cadd\dgn\1907cp10.dgn
DATE: 02 DEC 2002
USERNAME: Alisciandrello

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

STATE	FEDERAL PROJECT NO.
N.J.	



PAY ITEM NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
16	2B25B	ROADWAY EXCAVATION, UNCLASSIFIED	3 CM
18	2B17G	REMOVAL OF CONCRETE BASE COURSE AND CONCRETE SURFACE COURSES	96 SM
19	2B50G	SAWCUTTING	505 LM
20	2B25N	MILLING, 50 MM VARIABLE DEPTH	3000 SM
25	2C23E	ROCK EXCAVATION, SUBSURFACE STRUCTURES	195 CM
26	2G10G	BROKEN STONE OR WASHED GRAVEL	40 CM
27	N2G01	DENSE GRADED AGGREGATE BACKFILL	111 CM
28	2H21C	SUBBASE	234 CM
37	3A20D	DENSE GRADED AGGREGATE BASE COURSE, 200 MM THICK	1090 SM
47	4F02A	SUPERPAVE HOT MIX ASPHALT 12.5H76 SURFACE COURSE	495 MGR
48	4F03C	SUPERPAVE HOT MIX ASPHALT 25H64 BASE COURSE	360 MGR
51	6A05A	SUBBASE OUTLET DRAIN	20 LM
52	6A15B	150 MM CORRUGATED STEEL UNDERDRAIN PIPE	5 LM
53	6A21D	UNDERDRAIN, TYPE F	86 LM
57	6B76G	450 MM REINFORCED CONCRETE CULVERT PIPE, CLASS V	90 LM
58	6B82M	365 BY 575 MM REINFORCED CONCRETE ELLIPTICAL CULVERT PIPE, CLASS HE-IV	41 LM
68	6C22I	RESET CASTINGS	4 UNIT
70	N6C01	INLETS, TYPE B-SP1	5 UNIT
71	6E15D	225 BY 450 MM CONCRETE VERTICAL CURB	443 LM
73	6G10C	CONCRETE SIDEWALK, 100 MM THICK	185 SM
74	6G60E	HOT MIX ASPHALT DRIVEWAY, VARIABLE THICKNESS	301 SM
75	6G01R	PUBLIC SIDEWALK CURB RAMP DELINEATION	11 SM
76	6K21C	MONUMENTS	1 UNIT
79	6L21B	BEAM GUIDE RAIL	200 LM
82	6L11F	RUB RAIL	200 LM
84	6L15R	REMOVAL OF GUIDE RAIL	36 LM
157	8F04C	TOPSOILING, 100 MM THICK	271 SM

PAY ITEM NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
158	8H23C	FERTILIZING AND SEEDING, TYPE A-3	271 SM
160	8K31C	STRAW MULCHING	271 SM
161	8N05B	NONVEGETATIVE SURFACE, HOT MIX ASPHALT	240 SM

NOTE:
SEE GRADING PLAN FOR CURB RETURN P.C.'S AND P.T.'S STATION AND OFFSET

ALL DIMENSIONS SHOWN IN THIS SHEET ARE IN METERS UNLESS OTHERWISE NOTED

C-11 / C-13

NEW JERSEY DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN

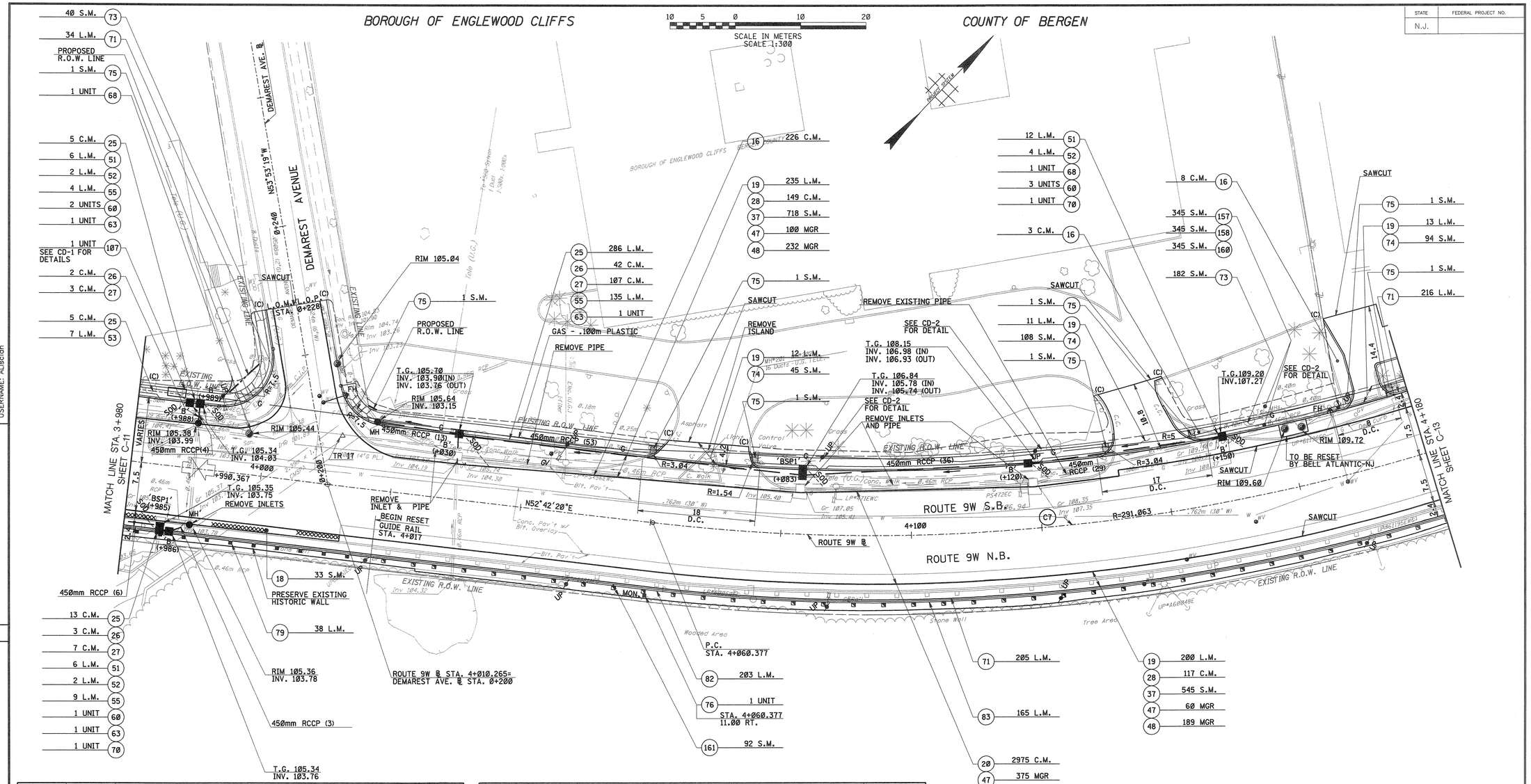
ROUTE 9W SECTION 1J

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

18
138

FILE NAME: p:\1907\cadd\dgn\1907cp11.dgn
DATE: 02 DEC 2002
USERNAME: ALiscion

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



STATE	FEDERAL PROJECT NO.
N.J.	

PAY ITEM NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
16	2B25B	ROADWAY EXCAVATION, UNCLASSIFIED	237 CM
18	2B17G	REMOVAL OF CONCRETE BASE COURSE AND CONCRETE SURFACE COURSES	33 SM
19	2B50G	SAWCUTTING	471 LM
20	2B25N	MILLING, 50 MM VARIABLE DEPTH	2975 SM
25	2G23E	ROCK EXCAVATION, SUBSURFACE STRUCTURES	309 CM
26	2G10G	BROKEN STONE OR WASHED GRAVEL	47 CM
27	N2G01	DENSE GRADED AGGREGATE BACKFILL	117 CM
28	2H21C	SUBBASE	266 CM
37	3A20D	DENSE GRADED AGGREGATE BASE COURSE, 200 MM THICK	1263 SM
47	4F02A	SUPERPAVE HOT MIX ASPHALT 12.5H76 SURFACE COURSE	535 MGR
48	4F03C	SUPERPAVE HOT MIX ASPHALT 25H64 BASE COURSE	421 MGR
51	6A05A	SUBBASE OUTLET DRAIN	24 LM
52	6A15B	150 MM CORRUGATED STEEL UNDERDRAIN PIPE	8 LM
53	6A21D	UNDERDRAIN, TYPE F	7 LM
55	6B55G	450 MM REINFORCED CONCRETE CULVERT PIPE, CLASS IV	148 LM
60	6C26C	INLETS, TYPE B	6 UNIT
63	6C31E	MANHOLES	3 UNIT
68	6C22I	RESET CASTINGS	2 UNIT
70	N6C01	INLETS, TYPE B-SP1	2 UNIT
71	6E15D	225 BY 450 MM CONCRETE VERTICAL CURB	455 LM
73	6G10C	CONCRETE SIDEWALK, 100 MM THICK	222 SM
74	6G60E	HOT MIX ASPHALT DRIVEWAY, VARIABLE THICKNESS	247 SM
75	6G01R	PUBLIC SIDEWALK CURB RAMP DELINEATION	8 SM
76	6K21C	MONUMENTS	1 UNIT
79	6L21B	BEAM GUIDE RAIL	38 LM
82	6L11F	RUB RAIL	203 LM

PAY ITEM NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
83	6L21G	RESET BEAM GUIDE RAIL WITH EXISTING POSTS	165 LM
108	N6V01	RELOCATE BUS SHELTERS	1 UNIT
157	8F04C	TOPSOILING, 100 MM THICK	345 SM
158	8H23C	FERTILIZING AND SEEDING, TYPE A-3	345 SM
160	8K31C	STRAW MULCHING	345 SM
161	8N05B	NONVEGETATIVE SURFACE, HOT MIX ASPHALT	92 SM

NOTE:
SEE GRADING PLAN FOR CURB RETURN P.C.'S AND P.T.'S STATION AND OFFSET

ALL DIMENSIONS SHOWN IN THIS SHEET ARE IN METERS UNLESS OTHERWISE NOTED

C-12 / C-13

NEW JERSEY DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN

ROUTE 9W — SECTION 1J

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

FILE NAME: p:\1907\cadd\dgn\1907cp12.dgn
DATE: 02 DEC 2002
USERNAME: ALiscian

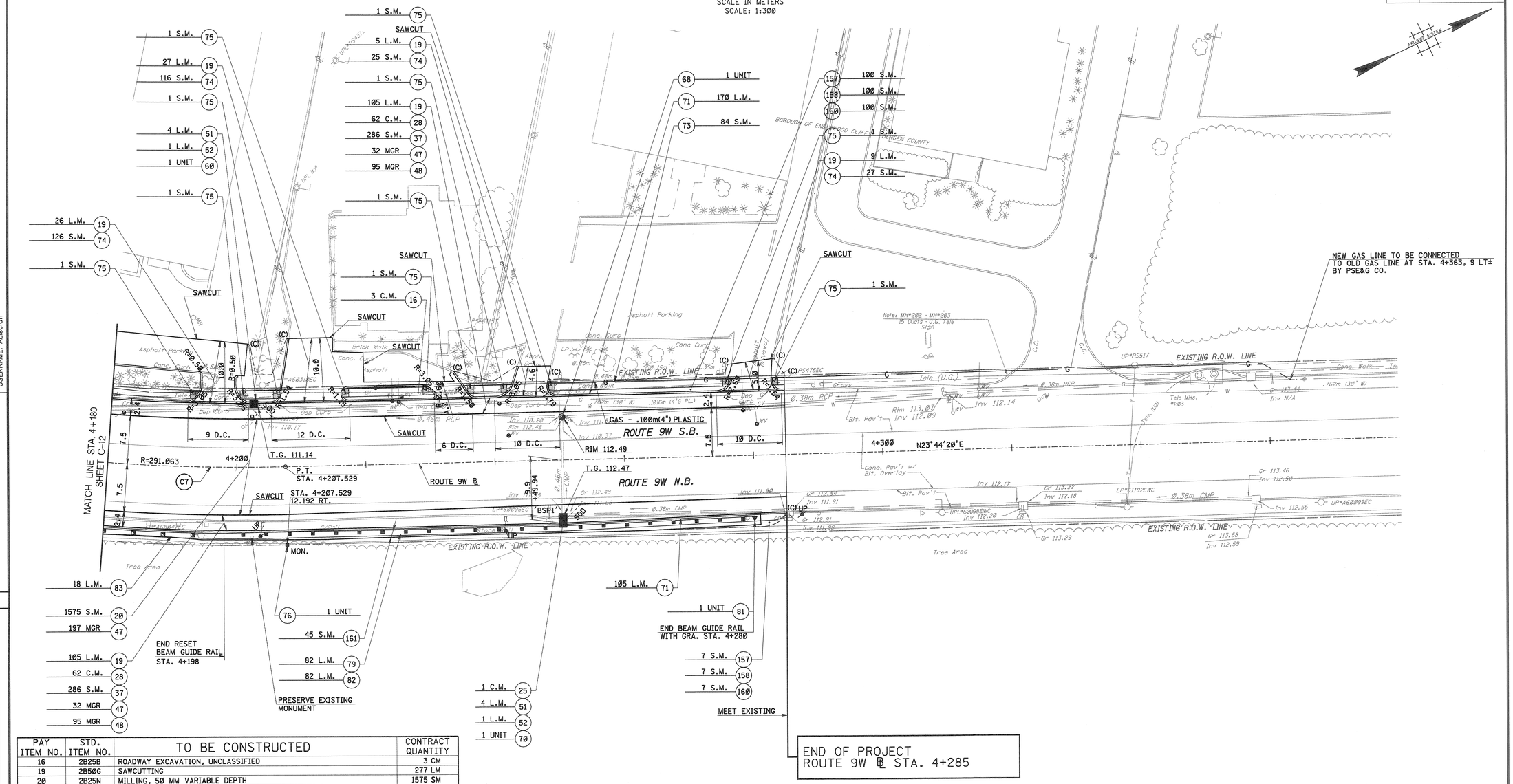
PREPARED BY: G. MENZEL
REVIEWED BY: A. GHATTAS
DRAWN BY: A. LISCIANDRELLO

STATE	FEDERAL PROJECT NO.
N.J.	

BOROUGH OF ENGLEWOOD CLIFFS

SCALE IN METERS
SCALE: 1:300

COUNTY OF BERGEN



PAY ITEM NO.	STD. ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
16	2B25B	ROADWAY EXCAVATION, UNCLASSIFIED	3 CM
19	2B50G	SAWCUTTING	277 LM
20	2B25N	MILLING, 50 MM VARIABLE DEPTH	1575 SM
25	2G23E	ROCK EXCAVATION, SUBSURFACE STRUCTURES	1 CM
28	2H21C	SUBBASE	124 CM
37	3A20D	DENSE GRADED AGGREGATE BASE COURSE, 200 MM THICK	572 SM
47	4F02A	SUPERPAVE HOT MIX ASPHALT 12.5H76 SURFACE COURSE	261 MGR
48	4F03C	SUPERPAVE HOT MIX ASPHALT 25H64 BASE COURSE	190 MGR
51	6A05A	SUBBASE OUTLET DRAIN	8 LM
52	6A15B	150 MM CORRUGATED STEEL UNDERDRAIN PIPE	2 LM
60	6C26C	INLETS, TYPE B	1 UNIT
68	6C22I	RESET CASTINGS	1 UNIT
70	N6C01	INLETS, TYPE B-SP1	1 UNIT
71	6E15D	225 BY 450 MM CONCRETE VERTICAL CURB	275 LM
73	6G10C	CONCRETE SIDEWALK, 100 MM THICK	84 SM
74	6G60E	HOT MIX ASPHALT DRIVEWAY, VARIABLE THICKNESS	294 SM
75	6G01R	PUBLIC SIDEWALK CURB RAMP DELINEATION	10 SM
76	6K21C	MONUMENTS	1 UNIT
79	6L21B	BEAM GUIDE RAIL	82 LM
81	6L41C	BEAM GUIDE RAIL ANCHORAGES	1 UNIT
82	6L11F	RUB RAIL	100 LM
83	6L21G	RESET BEAM GUIDE RAIL WITH EXISTING POSTS	18 LM
157	8F04C	TOPSOILING, 100 MM THICK	107 SM
158	8H23C	FERTILIZING AND SEEDING, TYPE A-3	107 SM
160	8K31C	STRAW MULCHING	107 SM
161	8N05B	NONVEGETATIVE SURFACE, HOT MIX ASPHALT	45 SM

NOTE:
SEE GRADING PLAN FOR CURB RETURN P.C.'S AND P.T.'S STATION AND OFFSET

ALL DIMENSIONS SHOWN IN THIS SHEET ARE IN METERS UNLESS OTHERWISE NOTED

C-13 / C-13

NEW JERSEY DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN

ROUTE 9W — SECTION 1J

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

FILE NAME: p:\1907\cadd\dgn\1907cp13.dgn
DATE: 02 DEC 2002
USERNAME: ALiscian

PREPARED BY: G. MENZEL
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