(1) ACCESS ROAD STA. 1+82, LT. TO 2+94, LT
NEW 18" X 115' CPEP (SL), INV. IN 1188.87, INV. OUT 1184.27
CONST. NEW CB #1 AT INLET, RIM 1195.70

(2) PARKING LOT STA. 21+81, LT. TO 23+35, LT.
NEW 18" X 150' CPEP (SL), INV IN. 1187.37, INV. OUT 1184.37
CONST. NEW CB#2 AT INLET, RIM 1194.20

(3) ACCESS ROAD STA. 1+35, LT. TO 1+82, LT.
NEW 18" X 55' CPEP (SL), INV. IN. 1184.17, INV. OUT 1181.15
CONST. NEW CB#3 AT INLET, RIM 1191.81

(4) ACCESS ROAD STA. 1+00, RT. TO 1+35, LT.
NEW 18" X 45' CPEP (SL), INV. IN 1181.05, INV. OUT 1178.58
CONST. NEW CB#4 AT INLET, RIM 1187.60

(5) ACCESS ROAD STA. 0+53, LT. TO 1+00, RT.
NEW 18" X 69' CPEP (SL), INV. IN 1178.48, INV. OUT 1177.88
CONST. NEW CB#5 AT INLET, RIM 1184.00 AND 18" CPEPES AT OUTLET

(6) ACCESS ROAD STA. 0+21, RT. TO 0+41, LT.
NEW 12" X 78' CPEP (SL), INV. IN 1178.48, INV OUT 1175.47
CONST. NEW 12" CPEPES AT INLET AND OUTLET

(7) BUS LOOP STA. 10+85, RT. TO 11+02, RT.
NEW 18" X 29' CPEP (SL), INV. IN 1177.50, INV. OUT 1176.96
CONST. NEW DI#1 AT INLET, RIM 1181.50

(8) BUS LOOP STA. 10+86, RT. TO 11+35, RT.
NEW 12" X 49' CPEP (SL), INV. IN 1176.70, INV. OUT 1176.46
CONST. NEW DI#2 AT INLET, RIM 1180.20

(9) BUS LOOP STA. 10+56, LT. TO 10+85, RT.
NEW 18" X 72' CPEP (SL), INV. IN 1176.46, INV. OUT 1176.09
CONST. NEW CB#6 AT INLET, RIM 1181.86 AND 18" CPEPES AT OUTLET

(10) BUS LOOP STA. 11+47, LT. TO 12+52, RT.
NEW 18" X 130' CPEP (SL), INV. IN 1169.00, INV. OUT 1167.70
CONST. NEW 18" CPEPES AT OUTLET
CONST. CONCRETE MANHOLE AT INLET. (SEE NOTE 7)

(11) BUS LOOP STA. 12+91, LT. TO 12+95, RT.
NEW 18" X 40' CPEP (SL), INV. IN 1166.10, INV. OUT 1165.70
CONST. NEW DI#3 AT INLET, RIM 1170.10

(12) BUS LOOP STA. 12+95, RT. TO 13+03, RT.
NEW 18" X 78' CPEP (SL), INV. IN 1165.55, INV. OUT 1164.00
CONST. NEW DI#4 AT INLET, RIM 1170.00 AND 18" CPEPES AT OUTLET

(13) REGRADE EXISTING GRASS LINED TREATMENT SWALE
SEE DRAINAGE DETAILS 1 (SHEET 22 OF 63)

(U1) PARKING LOT STA. 21+25, RT. TO 23+27, RT.
NEW 6" X 202' UNDERDRAIN, INV. IN 1194.88, INV. OUT 1190.80
NEW UNDERDRAIN FLUSHING BASIN AT INLET

(U2) ACCESS ROAD STA. 0+72, RT. TO 3+40, RT.
NEW 6" X 268' UNDERDRAIN, INV. IN 1190.80, INV. OUT 1178.56
NEW UNDERDRAIN FLUSHING BASIN AT INLET

(U4) PARKING LOT STA. 21+51, RT. TO 23+27, RT.
NEW 6" X 173' UNDERDRAIN, INV. IN 1193.00, INV. OUT 1189.70
NEW UNDERDRAIN FLUSHING BASIN AT INLET

(U5) PARKING LOT STA. 21+82, LT. TO 23+27, LT.
NEW 6" X 141' UNDERDRAIN, INV. IN 1188.72, INV. OUT 1185.90
NEW UNDERDRAIN FLUSHING BASIN AT INLET

(U6) ACCESS ROAD STA. 1+36, LT. TO 1+84, LT.
NEW 6" X 66' UNDERDRAIN, INV. IN 1185.90, INV. OUT 1183.14

(U7) BUS LOOP STA. 10+09, RT. TO 10+83, RT.
NEW 6" X 90' UNDERDRAIN, INV. IN 1183.14, INV. OUT 1177.46

(U8) BUS LOOP STA. 10+93, RT. TO 12+29, RT.
NEW 6" X 187' UNDERDRAIN, INV. IN 1178.50, INV. OUT 1173.37
NEW UNDERDRAIN FLUSHING BASIN AT INLET (SEE NOTE 3)

~~(U9)~~ BUS LOOP STA. 11+51, LT. TO 12+46, LT. DELETED
NEW 6" X 82' UNDERDRAIN, INV. IN 1174.50, INV. OUT 1173.94 MOVED TO SLOPE
NEW UNDERDRAIN FLUSHING BASIN AT INLET

NOTES:

1. THIS PLAN IS FOR DRAINAGE PURPOSES ONLY AND IS NOT TO BE CONSTRUED AS A PROPERTY BOUNDARY SURVEY. PROPERTY LINES AND ROW LINES ARE SHOWN FOR REFERENCE ONLY.
2. PRIOR TO COMMENCING SITE WORK, THE CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS. THE PROJECT ENGINEER SHALL BE NOTIFIED WITHIN 48 HOURS WHERE DISCREPANCIES EXIST BETWEEN THE PROJECT DRAWINGS AND ACTUAL FIELD CONDITIONS.
3. BETWEEN STA. 11+00 AND STA. 11+38 THE 6" UNDERDRAIN PIPE SHALL BE INSTALLED 1'-6" BEHIND THE CURBLINE SO AS NOT TO INTERFERE WITH THE 12" STORM DRAIN PIPE.
4. FOR DITCH PROTECTION AND STORM DRAIN OUTLET PROTECTION DETAILS, SEE DRAINAGE DETAILS 2 (SHEET 23 OF 63).
5. FOR FOREBAY SPILLWAY DETAILS, SEE DRAINAGE DETAILS 4 (SHEET 25 OF 63).
6. FOR DRAINAGE MANHOLE DETAILS, SEE DRAINAGE DETAILS 3 (SHEET 24 OF 63).
7. THERE ARE TWO EXISTING CULVERTS TO THE NORTH OF THE PARKING LOT AND ONE EXISTING CULVERT TO THE SOUTH. TO THE NORTH THE 18" CULVERT WILL BE REMOVED, A NEW 18" CULVERT WILL BE INSTALLED. THE OUTLET SWALE WILL BE REGRADED. THE 24" CULVERT WILL REMAIN. A NEW 18" CULVERT, FLOWING FROM THE CONCRETE MANHOLE, WILL OUTLET INTO THIS PIPE. TO THE SOUTH THE CULVERT WILL REMAIN IN PLACE.
8. REMOVAL OF EXISTING HEADWALL AND ENDWALL TO BE PAID UNDER ITEM 204.21 - TRENCH EXCAVATION OF ROCK.
9. FOR DRAINAGE AROUND ROUTE 66 TRAFFIC ISLAND SEE ROUTE 66 ISLAND LAYOUT (SHEET 18 OF 63).

CULVERT OUTLET PROTECTION

0+42, LT. 12+52, RT.
0+56, LT. 13+02, RT.
10+55, LT.

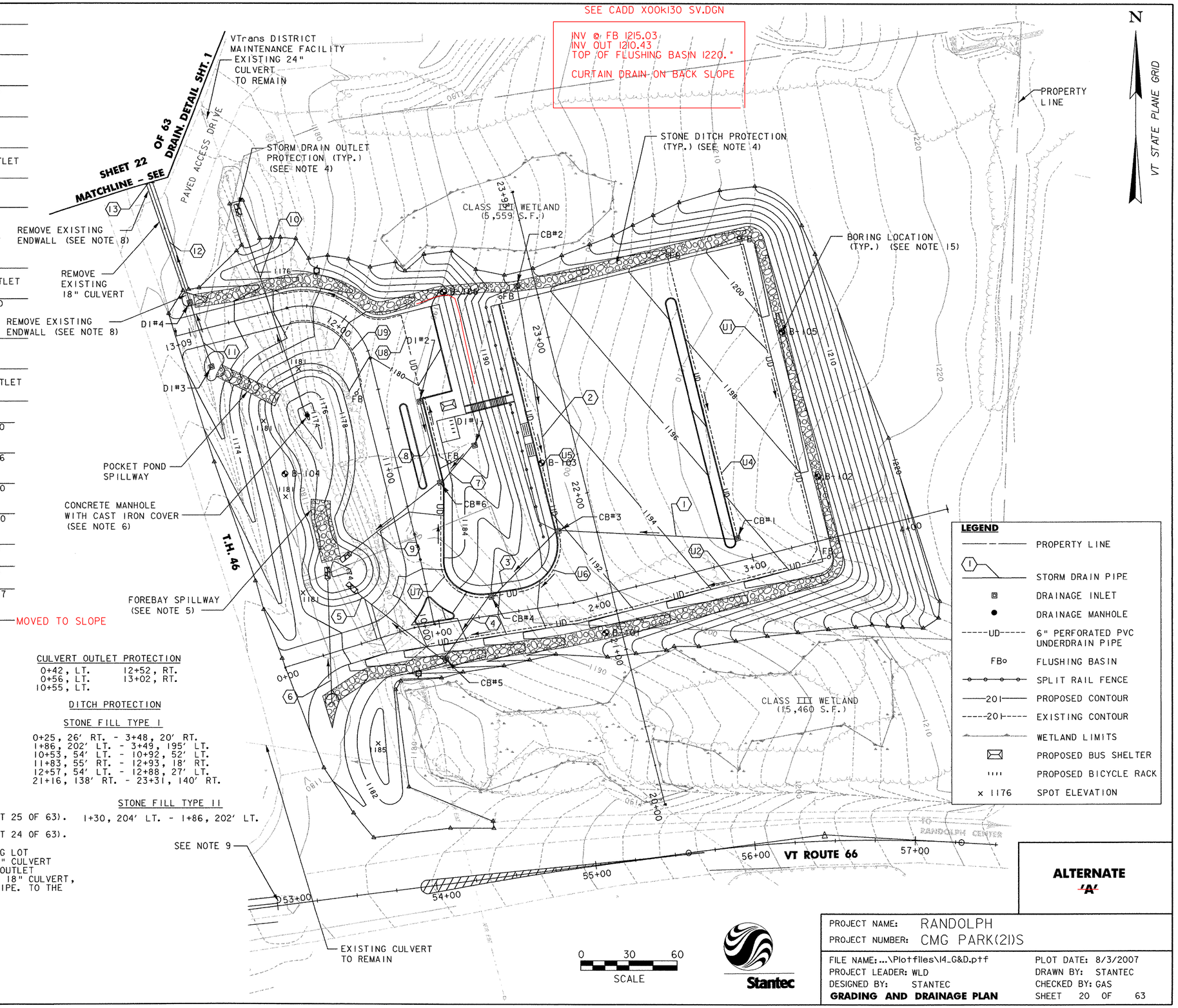
DITCH PROTECTION

STONE FILL TYPE I

0+25, 26' RT. - 3+48, 20' RT.
1+86, 202' LT. - 3+49, 195' LT.
10+53, 54' LT. - 10+92, 52' LT.
11+83, 55' RT. - 12+93, 18' RT.
12+57, 54' LT. - 12+88, 27' LT.
21+16, 138' RT. - 23+31, 140' RT.

STONE FILL TYPE II

1+30, 204' LT. - 1+86, 202' LT.



ALTERNATE 'A'

Stantec

PROJECT NAME: RANDOLPH	
PROJECT NUMBER: CMG PARK(21)S	
FILE NAME: ...\Plotfiles\14_G&D.ptf	PLOT DATE: 8/3/2007
PROJECT LEADER: WLD	DRAWN BY: STANTEC
DESIGNED BY: STANTEC	CHECKED BY: GAS
GRADING AND DRAINAGE PLAN	SHEET 20 OF 63