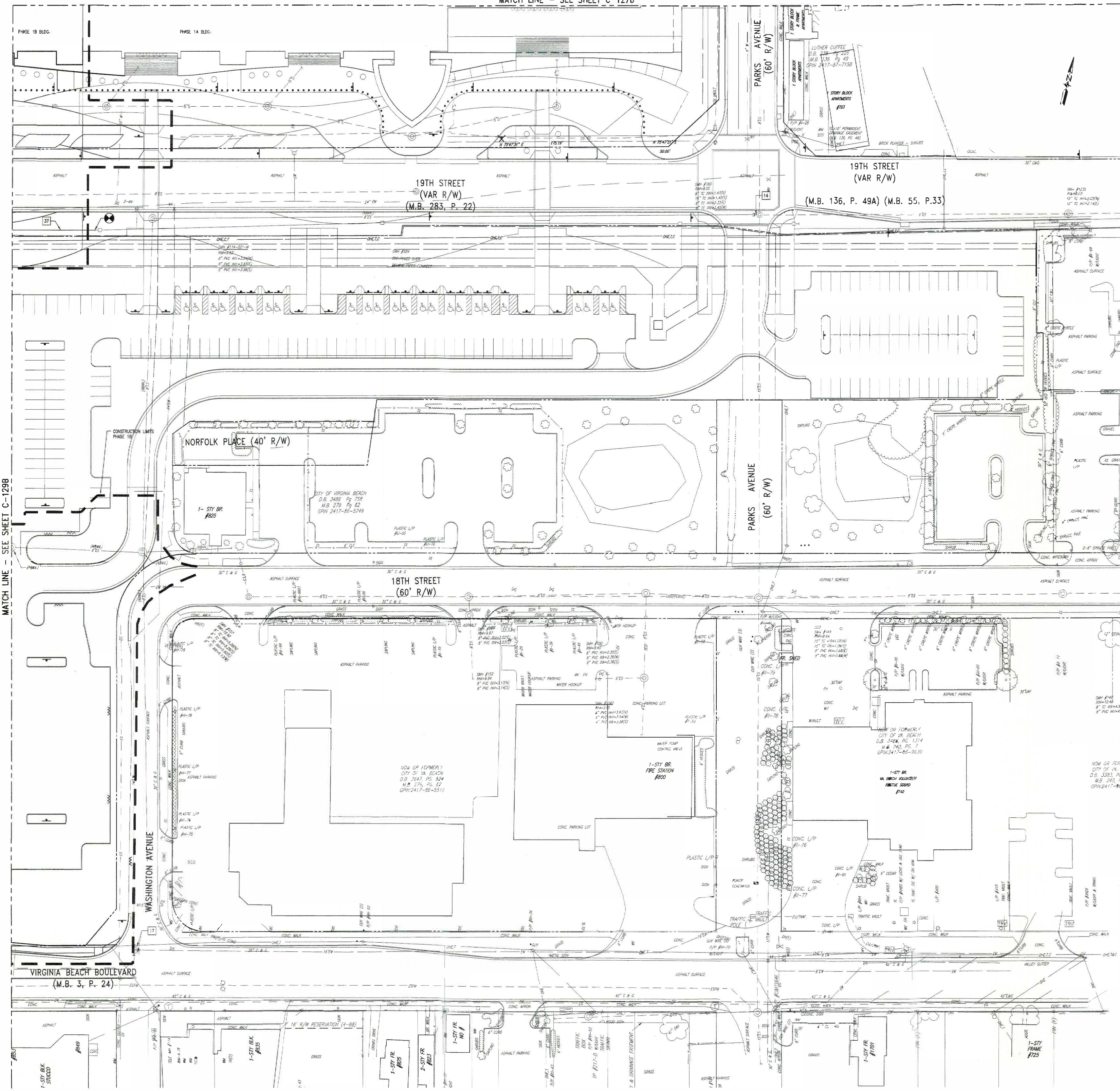


MATCH LINE - SEE SHEET C-127B



CONSTRUCTION NOTES

- 1 FIRE DEPARTMENT (SANDS) CONNECTION
- 2 8" POST INDICATOR VALVE (PIV)
- 3 DETECTOR CHECK VALVE SUPPLIED AND INSTALLED BY VBP
- 4 3" WATER METER AND 2"X SUPPLIED AND INSTALLED BY VBP
- 5 8" X 8" CROSS
- 6 8" GATE VALVE WITH VALVE BOX
- 7 6" X 8" TAPPING SLEEVE AND GATE VALVE WITH VALVE BOX
- 8 8" X 8" TEE AND 8" GATE VALVE WITH VALVE BOX
- 9 FIRE HYDRANT ASSEMBLY WITH 6" GATE VALVE, VALVE BOX
- 10 8" X 10" REDUCER
- 11 6" X 8" REDUCER
- 12 CAP EXISTING WATER MAIN PIPE
- 13 VERTICAL WATERLINE OFFSET FOR PROPOSED STORM SEWER
- 14 PLUG EXISTING SANITARY SEWER AT MANHOLE
- 15 FOR CONTINUATION, SEE FIRE PROTECTION PLANS
- 16 FOR CONTINUATION, SEE PLUMBING PLANS
- 17 ADJUST RM TO PROPOSED GRADE
- 18 PROPOSED 22" VARIABLE EASEMENT FOR VIRGINIA POWER
- 19 PROPOSED 10' VARIABLE EASEMENT FOR VERIZON
- 20 PROPOSED 10' VARIABLE EASEMENT COX CABLE
- 21 PROPOSED 15" SANITARY SEWER EASEMENT FOR CITY OF VIRGINIA BEACH DEPARTMENT OF PUBLIC UTILITIES
- 22 PROPOSED 20" WATER UTILITY EASEMENT FOR CITY OF VIRGINIA BEACH DEPARTMENT OF PUBLIC UTILITIES
- 23 8" X 6" TEE
- 24 ABANDON SANITARY SEWER
- 25 ABANDON SANITARY MANHOLE
- 26 8" 45 DEGREE BEND
- 27 6" 45 DEGREE BEND
- 28 PROPOSED SANITARY CLEANOUT
- 29 PROPOSED 20' X 25' PUBLIC UTILITY EASEMENT
- 30 8" X 12" TAPPING SLEEVE AND GATE VALVE WITH VALVE BOX
- 31 REMOVE TEMPORARY PLUG AND CONNECT TO EX. SANITARY
- 32 CONNECT TO EXISTING SANITARY PLUG EXISTING SANITARY AT SANITARY MANHOLE WHEN NEW SANITARY IS COMPLETE
- 33 RELOCATED HYDRANT (ADJUST TO FINISHED GRADE)
- 34 8" X 8" TEE
- 35 12" X 12" TEE
- 36 12" X 6" TEE
- 37 NOT USED
- 38 PROPOSED 15" X 15" PUBLIC UTILITY EASEMENT
- 39 PROPOSED 30' SANITARY SEWER EASEMENT FOR CITY OF VIRGINIA BEACH DEPARTMENT OF PUBLIC UTILITIES
- 40 24" X 6" TEE AND 6" GATE VALVE WITH VALVE BOX
- 41 12" X 6" TEE AND 6" GATE VALVE WITH VALVE BOX
- 42 24" X 16" TEE AND 16" BUTTERFLY VALVE WITH VALVE BOX
- 43 MAINTAIN MINIMUM 10' CLEARANCE FROM SANITARY FORCE MAIN
- 44 12" GATE VALVE WITH VALVE BOX
- 45 24" BUTTERFLY VALVE WITH VALVE BOX
- 46 24" X 24" TEE AND 24" BUTTERFLY VALVE WITH VALVE BOX
- 47 24" X 8" TEE AND 8" GATE VALVE WITH VALVE BOX
- 48 VARIABLE WIDTH EASEMENT FOR CITY OF VIRGINIA BEACH DEPARTMENT OF PUBLIC UTILITIES
- 49 MANUAL AIR RELEASE VALVE
- 50 CAP 8" WATER
- 51 CONTRACTOR SHALL FIELD LOCATE EXISTING SANITARY SEWER LATERAL FOR BUILDING REAR AND PROVIDE NEW LATERAL IN APPROPRIATE LOCATION TO CONNECT EXISTING LATERAL TO NEW LATERAL. CONTRACTOR SHALL MAKE ALL CONNECTIONS TO EXISTING SANITARY LATERAL TO PROVIDE SEWER SERVICES THROUGH NEW LATERAL TO SMH 20.

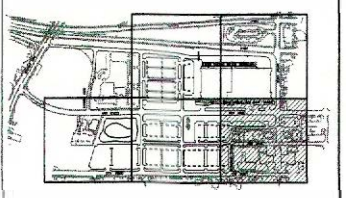
NOTE:

ALL CONNECTIONS TO EXISTING SANITARY MANHOLE SHALL BE CORE DRILLED.

Virginia Beach Convention Center
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Norfolk, Virginia 23502



Scale & Signature

GRAPHIC SCALE



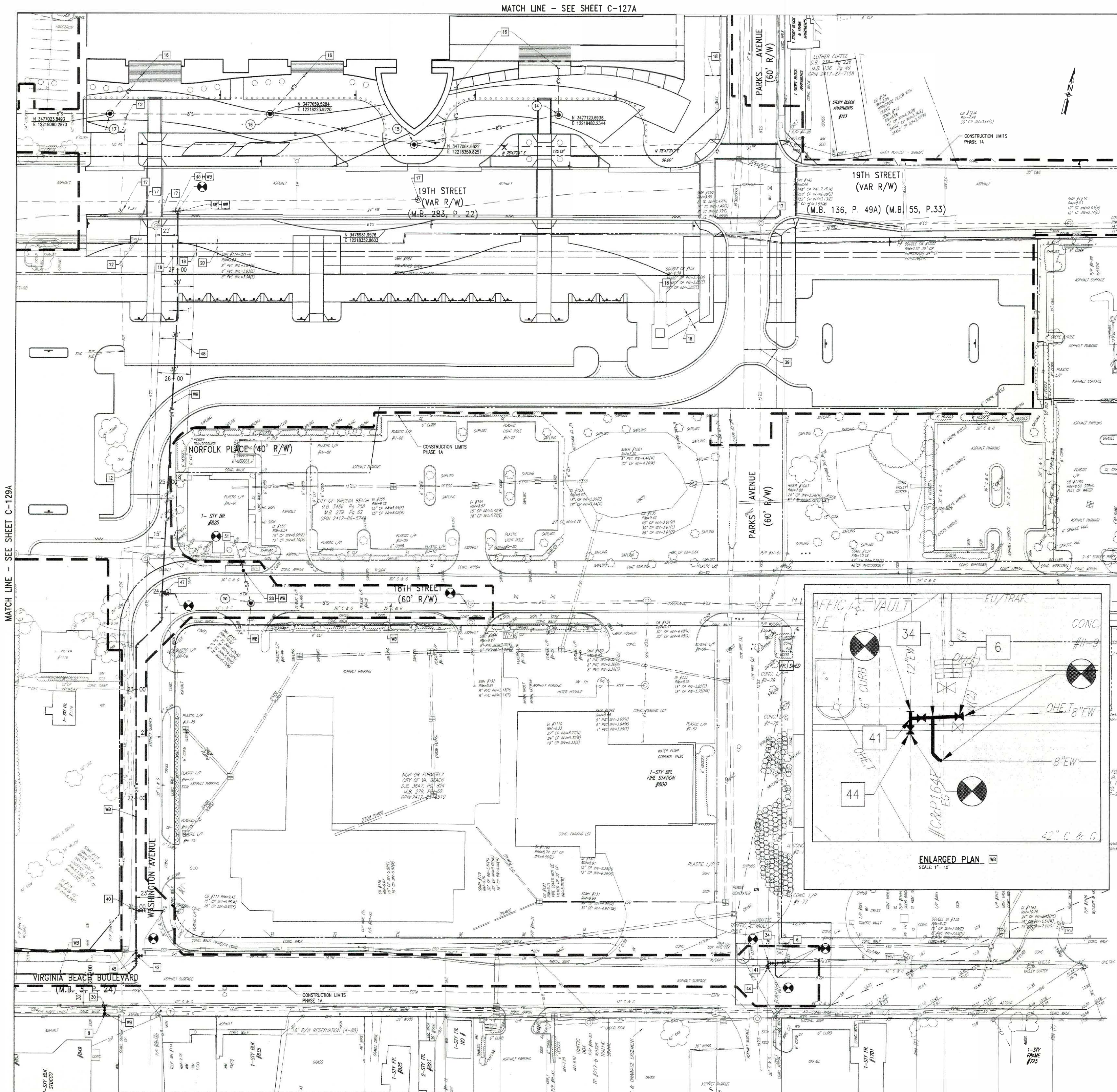
SITE UTILITIES
PLAN
PHASE 1B

Project No.
201189

Date:
OCT 04, 02

Scale:
1"=30'

Sheet No.
C-130B



CONSTRUCTION NOTES:

- 1 FIRE DEPARTMENT (WATER) CONNECTION
- 2 8" POST INDICATOR VALVE (PIV)
- 3 DETECTOR CHECK VALVE SUPPLIED AND INSTALLED BY VBP
- 4 3" WATER METER AND BOX SUPPLIED AND INSTALLED BY VBP
- 5 8" X 8" CROSS
- 6 8" GATE VALVE WITH VALVE BOX
- 7 8" X 8" TAPPING SLEEVE AND GATE VALVE WITH VALVE BOX
- 8 8" X 8" TEE AND 8" GATE VALVE WITH VALVE BOX
- 9 FINE HYDRANT ASSEMBLY WITH 8" GATE VALVE, VALVE BOX
- 10 8" X 10" REDUCER
- 11 8" X 8" REDUCER
- 12 CAP EXISTING WATER MAIN PIPE
- 13 VERTICAL WATERLINE OFFSET FOR PROPOSED STORM SEWER
- 14 PLUG EXISTING SANITARY SEWER AT MANHOLE
- 15 FOR CONTINUATION, SEE FIRE PROTECTION PLANS
- 16 FOR CONTINUATION, SEE PLUMBING PLANS
- 17 ADJUST RM TO PROPOSED GRADE
- 18 PROPOSED 22" AND VARIABLE EASEMENT FOR VIRGINIA POWER
- 19 PROPOSED 10" AND VARIABLE EASEMENT FOR VERIZON
- 20 PROPOSED 10" AND VARIABLE EASEMENT FOR COX CABLE
- 21 PROPOSED 15" SANITARY SEWER EASEMENT FOR CITY OF VIRGINIA BEACH DEPARTMENT OF PUBLIC UTILITIES
- 22 PROPOSED 20" WATER UTILITY EASEMENT FOR CITY OF VIRGINIA BEACH DEPARTMENT OF PUBLIC UTILITIES
- 23 8" X 8" TEE
- 24 ABANDON SANITARY SEWER
- 25 ABANDON SANITARY MANHOLE
- 26 8" 15 DEGREE BEND
- 27 8" 45 DEGREE BEND
- 28 PROPOSED SANITARY CLEANOUT
- 29 PROPOSED 20" X 25" PUBLIC UTILITY EASEMENT
- 30 8" X 12" TAPPING SLEEVE AND GATE VALVE WITH VALVE BOX
- 31 REMOVE TEMPORARY PLUG AND CONNECT TO EX. SANITARY
- 32 CONNECT TO EXISTING SANITARY PLUG EXISTING SANITARY AT SANITARY MANHOLE WHEN NEW SANITARY IS COMPLETED
- 33 RELOCATED HYDRANT (ADJUST TO FINISHED GRADE)
- 34 8" X 8" TEE
- 35 12" X 12" TEE
- 36 12" X 8" TEE
- 37 NOT USED
- 38 PROPOSED 15" X 15" PUBLIC UTILITY EASEMENT
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- 43 MAINTAIN MINIMUM 10' CLEARANCE FROM SANITARY FORCE MAIN
- 44 12" GATE VALVE WITH VALVE BOX
- 45 24" BUTTERFLY VALVE WITH VALVE BOX
- 46 24" X 24" TEE AND 24" BUTTERFLY VALVE WITH VALVE BOX
- 47 24" X 8" TEE AND 8" GATE VALVE WITH VALVE BOX
- 48 VARIABLE WITH EASEMENT FOR CITY OF VIRGINIA BEACH DEPARTMENT OF PUBLIC UTILITIES
- 49 MANHOLE AIR RELEASE VALVE
- 50 CAP 8" WATER
- 51 CONTRACTOR SHALL FIELD LOCATE EXISTING SANITARY SEWER LATERAL FOR BUILDING #225 AND PROVIDE NEW LATERAL IN APPROPRIATE LOCATION TO CONNECT EXISTING LATERAL TO NEW LATERAL. CONTRACTOR SHALL MAKE ALL CONNECTIONS TO EXISTING SANITARY LATERAL TO PROVIDE SEWER SERVICE THROUGH NEW LATERAL TO SMH 20.

SANITARY SEWER STRUCTURES: (THIS SHEET)

- | | | | |
|----|----------------------------|----|---|
| 14 | SMH
RM=9.85
INV=5.27 | 20 | SMH
RM=10.10+ (SET RM TO FINISHED GRADE)
INV=4.11 (E)
INV=4.21 (N) |
| 15 | SMH
RM=9.85
INV=4.73 | | |
| 16 | SMH
RM=9.85
INV=4.19 | | |
| 17 | SMH
RM=9.85
INV=3.59 | | |

SANITARY SEWER PIPE:

- | | | | |
|----|---------------------------------|------------------------|--|
| 14 | 10 | 135 LF, 8" PVC @ 0.40% | |
| 15 | 10 | 136 LF, 8" PVC @ 0.40% | |
| 16 | 10 | 148 LF, 8" PVC @ 0.40% | |
| 17 | 10 | 290 LF, 8" PVC @ 0.40% | |
| 20 | SMH #151 202 LF, 8" PVC @ 0.40% | | |

NOTE:

- ALL CONNECTIONS TO EXISTING SANITARY MANHOLES SHALL BE CORE DRILLED.
- SEE SHEET C-201 FOR PROFILES OF PROPOSED 12" AND 24" WATERLINES.
- WATERLINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF VIRGINIA BEACH DEPARTMENT OF PUBLIC UTILITIES SEWER AND WATER STANDARD SPECIFICATIONS AND DETAILS.
- ALL PROPOSED FIRE HYDRANTS SHALL OPEN CLOCKWISE.

16 VIRGINIA BEACH PUBLIC UTILITIES WATERLINE BETTERMENTS

GRAPHIC SCALE

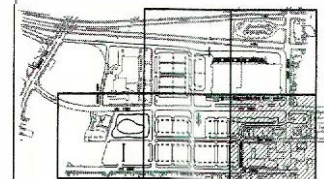


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Department of Public Works
Municipal Center - Building 2
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Consultant Engineering:
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Architecture & Engineering
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Suite 200A
Norfolk, Virginia 23502

Civilian:



Seal & Signature

15 7 NOV 03 BULLETIN NO. 1 - ISSUED FOR FINAL CONSTRUCTION
14 20 AUG 03 ISSUED FOR VBP APPROVAL
13 12 AUG 03 ADDENDUM NO. 14 - ISSUE FOR CONSTRUCTION AND DISC PERMIT
12 21 JUL 03 ADDENDUM NO. 13 - WATER UTILITY BETTERMENT
11 09 JUL 03 ISSUED FOR VBP REVIEW
10 15 JUN 03 ISSUED FOR VBP REVIEW
09 30 MAY 03 ADD. NO. 10 - ISSUED FOR FINAL CMP
08 15 MAY 03 ISSUED FOR BUILDING PERMIT
07 2 MAY 03 ADDENDUM NO. 8 - ISSUED FOR CMP
06 18 APR 03 ISSUED FOR VIRGINIA BEACH DISC PERMIT
05 28 MAR 03 ADDENDUM NO. 6 - ISSUED FOR REVISION TO SITE DEMOLITION, DRAINAGE, LAYOUT AND UTILITIES PLAN
04 26 MAR 03 ISSUED FOR VA BEACH DISC PERMIT
03 17 FEB 03 ISSUED FOR VIRGINIA BEACH DISC PERMIT
02 03 FEB 03 ISSUED FOR SITE BID PACKAGE
01 04 OCT 02 ISSUED FOR NO. COST ESTIMATING

Sheet Name:

SITE UTILITIES
PLAN
PHASE 1A

Project No.:
201199
Date:
OCT 04, 02
Scale:
1"=30'
C-130A

CONSTRUCTION NOTES:

1. FOR PARKING LOTS TEMPORARY SEDIMENT CONTROL IS PER INLET DRAINAGE AREA.



Virginia Beach Convention Center
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Municipal Center - Building 2
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Architect / Engineer:

SOM

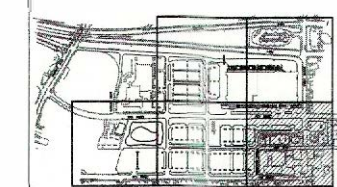
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Chicago, Illinois 60604

Consultant: Engineering:

CLARK NEXSEN

Architecture & Engineering
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Norfolk, Virginia 23502

Consultant:



Seal & Signature

GRAPHIC SCALE

1"=30' 0 30' 60' 120'

EROSION AND SEDIMENT CONTROL PLAN PHASE 1B

Project No.

201199

Date:

OCT 04, 02

Scale:

1"=30'

Sheet No.

C-120B

Sheet No.

C-120B

Sheet No.

C-120B

MATCH LINE - SEE SHEET C-117B

PARKS AVENUE
(60' R/W)

19TH STREET
(VAR R/W)
(M.B. 283, P. 22)

19TH STREET
(VAR R/W)
(M.B. 136, P. 49A) (M.B. 55, P. 33)

NORFOLK PLACE
(40' R/W)

PARKS AVENUE
(60' R/W)

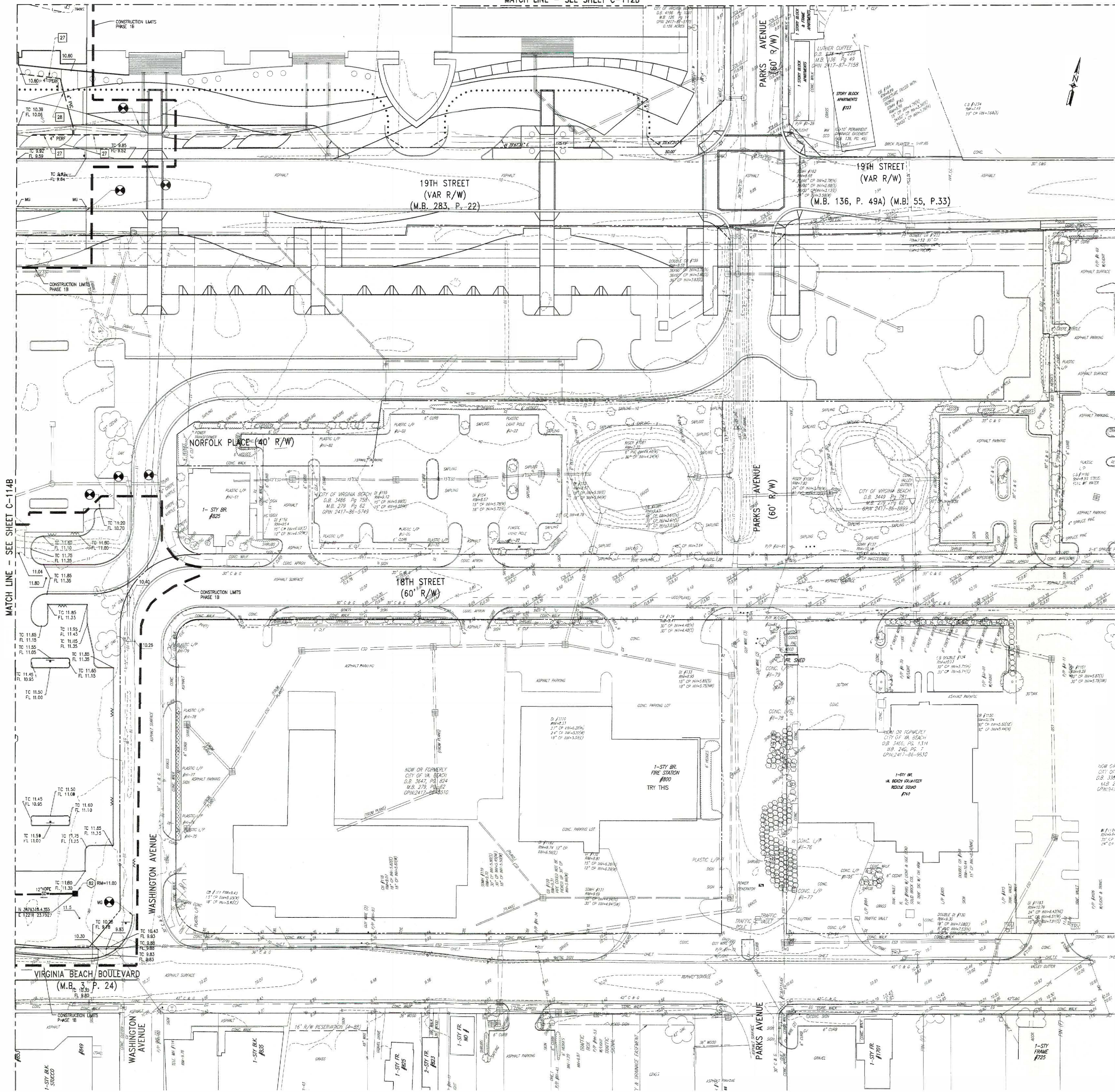
18TH STREET
(60' R/W)

WASHINGTON AVENUE

VIRGINIA BEACH BOULEVARD
(M.B. 3, P. 24)

PARKS AVENUE

MATCH LINE - SEE SHEET C-112B



CONSTRUCTION NOTES:

1. PROVIDE PIPE STUB AND TEMPORARY PLUG.
2. PLUG PIPE.
3. REMOVE TEMPORARY PLUG AND CONNECT TO EXISTING STUB.
4. CONVERT STORM STRUCTURE TO MANHOLE.
5. VDOT STD. EC-1.
6. FOR CONTINUATION, SEE PLUMBING PLANS.
7. TEMPORARY SEGMENT BURN RISER STRUCTURE (SEE SHEET 118A).
8. SUMMERSELE AERATION FOUNTAIN (3HP, 440 VOLT, 3 PHASE) SELECTED BY ARCHITECT.
9. CONTROL CABINET WITH COMBINATION STARTERS AND LOW LEVEL SHUT OFF, RATED NEMA 3R, WITH COMPONENTS PER AERATION FOUNTAIN MANUFACTURER'S RECOMMENDATIONS.
10. SHORELINE PROTECTION (SEE WETLANDS MITIGATION PLAN).
11. PROPOSED DRAINAGE AND IMPOUNDMENT EASEMENT.
12. DEBRIS RACK.
13. 10" PVC STUB TO CONNECT TO ROOF DRAIN.
14. 8" PVC STUB TO CONNECT TO ROOF DRAIN.
15. 12" PVC STUB TO CONNECT TO ROOF DRAIN.
16. REMOVE TEMPORARY RISER STRUCTURE AND CONNECTING 30" CMP WHEN SEGMENT BURN IS FILLED.
17. ADJUST RIM TO FINISHED GRADE.
18. CONFLICT MANHOLE (SEE DETAIL ON SHEET C-501).
19. PLACE NEOPRENE PAD BETWEEN PROPOSED 18" RCP AND PROPOSED SANITARY SINKER PIPE (REFER TO CIVIL PIPE CROSSING BEDDING PU DETAIL NO. 20 ON SHEET C-501).
20. SEE SHEET C-302 "SIDEWALK ENLARGED PLANS" FOR ADDITIONAL GRADES AT INTERSECTION.
21. 3" PVC STUB TO CONNECT TO ROOF DRAIN.
22. 6" PVC STUB TO CONNECT TO ROOF DRAIN.
23. TWO 8" PVC STUBS TO CONNECT TO ROOF DRAIN.
24. TWO 10" PVC STUBS TO CONNECT TO ROOF DRAIN.
25. TWO 12" PVC STUBS TO CONNECT TO ROOF DRAIN.
26. 45-DEGREE BEND.
27. 4" PERFORATED PVC PIPE FOR TREE SUBSURFACE DRAINAGE (1% MIN SLOPE).
28. 4" SOLID PVC PIPE (1% MIN SLOPE).
29. 4" PVC STUB FOR TREE SUBDRAINAGE.
30. TWO 4" PVC PIPE STUBS TO CONNECT TO ROOF DRAIN.
31. MEET AND MATCH GRADE OF RAMP.



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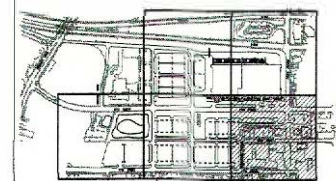
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Consultant Engineering:

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Norfolk, Virginia 23502

Consultant:



Seal & Signature

11	7 NOV 03	BULLETIN NO. 1 - ISSUED FOR FINAL
12	12 JUL 03	ADDENDUM NO. 14 - ISSUED FOR CONSTRUCTION AND DISC PERMIT
13	30 MAY 03	DISC NOT TO BE ISSUED FOR FINAL GMP
14	5 MAY 03	ISSUED FOR BUILDING PERMIT
15	2 MAY 03	ADDENDUM NO. 8 - ISSUED FOR GMP
16	18 APR 03	ISSUED FOR VIRGINIA BEACH DISC PERMIT
17	20 MAR 03	ADDENDUM NO. 6 - ISSUED FOR REGIONAL TO SITE DEMOLITION, DRAINAGE, LAYOUT AND UTILITIES PLAN
18	28 MAR 03	ISSUED FOR VA BEACH DISC PERMIT
19	17 FEB 03	ISSUED FOR VIRGINIA BEACH DISC PERMIT
20	03 FEB 03	ISSUED FOR SITE BID PACKAGE
21	14 OCT 02	ISSUED FOR DISC COST ESTIMATING

No. Date Issue

Sheet Name:

Project No. 201199

Date: OCT 04, 02

Scale: 1"=30'

Sheet No. C-115B

GRAPHIC SCALE

1"=30'

0 30' 60' 120'

1"=30'

1"=30'

1"=30'

1"=30'

1"=30'

1"=30'