

TRB 3A3

STAGE 2

7,352

5.66 | 5.66 | 20,389 | 39,670 | 10,200 | 12,940 | 140 | 70 | 390.00

GENERAL CONSTRUCTION NOTES

- EXISTING UNDERGROUND STRUCTURES AND UTILITIES SHOWN ARE BASED ON FIELD SURVEYS AND BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF ALL RIGHT-OF-WAY LINE UTILITIES, PRIOR TO STARTING CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
 - THE CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE CALL AT 1-800-632-4949. THE CONTRACTOR SHALL CALL AT LEAST 48
- 3. ALL WATER UTILITY CONSTRUCTION SHALL CONFORM TO THE CHATHAM COUNTY STANDARDS AND SPECIFICATIONS. ALL SANITARY SEWER UTILITY CONSTRUCTION SHALL CONFORM TO LATEST AQUA OF NORTH CAROLINA STANDARDS AND
- THE SUBJECT PROPERTY IS LOCATED IN A FLOOD HAZARD AREA PER FEMA FIRM PANEL 9773. MAP NUMBER 3710977300J, DATED 02/02/07, & FEMA FIRM PANEL 9782, MAP NUMBER 3710978200J, DATED 02/02/07.
- AQUA PERSONNEL SHALL BE NOTIFIED 48 HOURS BEFORE CONSTRUCTION IS TO BEGIN, ANY TESTING IS SCHEDULED, OR BEFORE
- 7. ALL WATER MAINS SHALL HAVE A MINIMUM OF 3.0' OF COVER AS MEASURED FROM FINISHED GRADE AT THE LOCATION WHERE
- 8. ALL WATER MAINS SHALL BE OVER THE SEWER MAIN AND SERVICES WITH A MINIMUM OF 18" SEPARATION.
- INSTREAM WORK SHALL BE PROHIBITED FROM MARCH 15 THROUGH JUNE 30 TO MINIMIZE IMPACTS TO SPAWNING FISH.
- TOPOGRAPHIC INFORMATION PROVIDED BY CE GROUP, INC. RALEIGH, NC. PROFILE DATA FROM FIELD SURVEY BACKGROUND TOPOGRAPHY FROM AERIAL MAPPING.
- 12. DISTURBANCE IS LIMITED TO NO MORE THAN 15 AC OF GRADUAL SLOPED LAND AT ANY ONE TIME (0 14.9% SLOPE).
- 14. WHERE GRAVITY SEWER LINES ARE DIP DUE TO VERTICAL SEPARATION REQUIREMENTS, THE DIP GRAVITY SEWER LINE SEGMENTS SHALL BE HYDROSTATICALLY TESTED WITH WATER TO ENSURE JOINT TIGHTNESS.

RIP RAP OUTLET DISSIPATOR

NCDENR SELF-INSPECTION PROGRAM

THE SEDIMENTATION POLLUTION CONTROL ACT WAS AMENDED IN 2006 TO REQUIRE THAT PERSONS RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES INSPECT A PROJECT AFTER EACH PHASE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED.

RULES DETAILING THE DOCUMENTATION OF THESE INSPECTIONS TAKE EFFECT OCTOBER 1, 2010.

THE SELF-INSPECTION PROGRAM IS SEPARATE FROM THE WEEKLY SELF-MONITORING PROGRAM OF THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES. THE FOCUS OF THE SELF-INSPECTION REPORT IS THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES ACCORDING TO THE APPROVED PLAN. THE INSPECTIONS SHOULD BE CONDUCTED AFTER EACH PHASE OF THE PROJECT, AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

THE SELF-INSPECTION REPORT FORM IS AVAILABLE AS AN EXCEL SPREADSHEET FROM THE LAND QUALITY WEB SITE, http://portal.ncdenr.org/web/lr/erosion

EROSION CONTROL SEQUENCE - STAGE 2

- 1. ONCE APPROVAL FOR PHASE 1 IS OBTAINED BEGIN CLEARING AND GRUBBING OF REMAINING DISTURBED AREAS AS SHOWN ON APPROVED PLAN.
- BEGIN EARTH MOVING OPERATIONS. INSTALL RETAINING WALLS IN CUT AREAS IMMEDIATELY AS MATERIAL IS BEING REMOVED. INSTALL RETAINING WALLS IN FILL AREAS AS SITE COMES TO FINAL GRADE. TSB 1 AND TSB 2 ARE TO BE REMOVED AND EVENTUALLY FILLED TO FINAL GRADE. CHATHAM COUNTY IS TO BE NOTIFIED PRIOR TO REMOVAL OF TEMPORARY SKIMMER BASINS 1 & 2.
- BEGIN INSTALLATION OF NEW STORM DRAINAGE NETWORKS AND SITE UTILITIES AS SITE IS BEING BROUGHT UP TO FINAL GRADE.
- ONCE THE PIPES FOR STORM SYSTEM A AND B ARE COMPLETE, INSTALL STAGE 2 TEMPORARY DIVERSION BERMS/ DITCHES AND OTHER TEMPORARY MEASURES. INSTALL CHECK DAMS IN EACH AND STABILIZE WITH PERMANENT MATTING IMMEDIATELY.
- COMPLETE THE INSTALLATION OF THE STORM DRAINAGE NETWORK AS THE SITE COMES TO FINAL GRADE. PLACE INLET PROTECTION AND HORSEHOE INLET PROTECTION AROUND STORM DRAINAGE STRUCTURES ONCE THEY ARE
- BRING SITE TO FINAL GRADE AND BEGIN EXCAVATION OF ROADWAYS.
- CONSTRUCT CURB AND GUTTER AND STONE BASE TO PREP FOR PAVING. INSTALL SIDEWALKS. SEED/SOD AND INSTALL LANDSCAPING ALONG WITH ANY OTHER PERMANENT GROUND COVER.
- SEED AND MULCH ALL DENUDED AREAS WITHIN 15 WORKING DAYS OF COMPLETION OF ANY PHASE OF CONSTRUCTION. EROSION CONTROL MATTING IS TO BE INSTALLED ON SLOPES 3:1 OR GREATER IMMEDIATELY AFTER
- PAVE ROADS.
- REQUEST FINAL APPROVAL BY ENVIRONMENTAL INSPECTOR. IF THE INSPECTOR IS SATISFIED WITH UPSTREAM PERMANENT GROUND COVER, BEGIN REMOVING TEMPORARY EROSION CONTROL MEASURES.
- AFTER STABILIZATION HAS OCCURRED REMOVE SEDIMENT FROM RISER BASIN/WATER QUALITY POND AND CONVERT TO PERMANENT STRUCTURE. ALL WATER IS TO BE PUMPED TO SILT BAG BEFORE DISCHARGING FROM SITE (SEE
- *CONTRACTOR TO REESTABLISH TEMPORARY DIVERSION SWALES AT THE END OF EACH DAY TO ENSURE DRAINAGE TO THE

TEMPORARY DIVERSION DITCH TYPICAL SECTION

THICKNESS

(IN)

31.5

31.5

31.5

(FT)

7.5

3.75

7.5

PROPERTY LINE (PL)

- UTILITY EASEMENT

— TP — TP — PROPOSED TREE PROTECTION FENCE

TEMPORARY DIVERSION DITCH

—140——— PROPOSED MAJOR CONTOUR

TEMPORARY STONE CHECK DAM

HORSESHOE INLET PROTECTION FILTER

INLET PROTECTION

CONCRETE WASHOUT

SILT FENCE OUTLET

CURB INLET SILT SOCK

RIP-RAP OUTLET DISSIPATOR

CONSTRUCTION ENTRANCE

ROLLED EROSION CONTROL PRODUCTS

301 GLENWOOD AVE. 220

RALEIGH,NC 27603

PHONE: 919-367-8790

FAX: 919-322-0032

www.cegroupinc.com

License # C-1739

SE

— -140- — EXISTING MAJOR CONTOUR -----139---- Existing Minor contour

--- SETBACK LINE

 \bigcirc

EROSION CONTROL NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATE ANDLOCAL

- SUFFICIENT EROSION CONTROL PRACTICES MUST BE INSTALLED AND MAINTAINED TO RETAIN SEDIMENT WITHIN THE BOUNDARIES OF THE SITE. GROUND COVER STABILIZATION SHALL BE IN ACCORDANCE WITH NPDES PERMIT AND STABILIZATION CHART ABOVE. TEMPORARY GROUND COVER WILL BE INSTALLED ON ALL EXPOSED SLOPES IN 7 OR 14 DAYS. PERMANENT GROUND COVER WILL BE INSTALLED ON EXPOSED SLOPES WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS OUTLET
- MAINTENANCE: ALL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSPECTED WEEKLY AND AFTER EVERY RUNOFF PRODUCING RAINFALL EVENT. NEEDED REPAIRS

418.00

- MAXIMUM GRADED SLOPE SHALL NOT EXCEED THREE (3) TO ONE (1).
- THIS PHASE IS NOT LOCATED WITHIN 100 YEAR FLOOD PLAIN ACCORDING TO FEMA MAP NUMBER 3710977300J, DATED 02/02/2007.

4.00

4.00

2.00

160 | 90 | 395.00 | 25 | 393.50 | 4.00 | 3.24 | 15 | 30 | 45

SEE SHEET 9A, 9B, & 9C FOR EROSION CONTROL DETAILS.

LIMITS OF DISTURBANCE (1,316,408 SF = 30.22 AC.)



RIPRAP OUTLET DISSIPATOR TABLE - PHASE 3

55.66

31.23

OUTLET

OUTLET

FES A

FES B

FES C

SCALE: 1" = 60'

BEFORE YOU DIG CALL THE NC ONE CALL CENTER

1-800-632-4949 IT'S THE LAW!

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NCDEQ PWSS, AND NCDOT STANDARDS AND PROJECT-SPECIFIC SPECIFICATIONS DATED MAY 14TH.

ROCK

SIZE (IN)

330-03 Computer Dwg. Name 30-03 4D EROSION CONTROL PLAN - EAST

Sheet No:

05/14/2019

1" = 60'

BWM

JMC

oject No.



LEGEND

LEGEND	
	EXISTING MINOR CONTOUR PROPOSED MAJOR CONTOUR PROPOSED MINOR CONTOUR PROPOSED STORM DRAINAGE PIPE
	FLARED END SECTION
•	STORM MANHOLE
	YARD INLET
	CATCH BASIN
~~ 100.0'	FLOW ARROW
Ø	PROPOSED SPOT ELEVATION
TW=100.0'	PROPOSED GRADE AT TOP OF WALL
ØVV-100.0	PROPOSED GRADE AT BOTTOM OF W

GENERAL GRADING NOTES

- 1. REFER TO THE OVERALL SITE LAYOUT FOR RELATED NOTES.
- 2. BOUNDARY & TOPOGRAPHIC INFORMATION TAKEN FROM A SURVEY PREPARED BY THE CE GROUP, INC.
- 3. FINISHED WALK AND CURB ELEVATIONS SHALL BE 6" ABOVE FINISHED PAVEMENT GRADE UNLESS NOTED DIFFERENTLY ON THE PLANS.
- 4. THE CONTRACTOR SHALL NOTE THAT THE PLANS ARE SCHEMATIC IN NATURE AND DO NOT SHOW EVERY OFFSET, TRANSITION, GRADE CHANGE, ETC. THAT MAY BE REQUIRED FOR A COMPLETE AND WORKING SYSTEM.
- 5. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION.
- 6. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.
- 7. ALL FILL TO BE COMPACTED TO 98% DRY DENSITY (STANDARD PROCTOR) UNDER PAVEMENT AND BUILDING PADS OR AS SPECIFIED IN PROJECT GEOTECHNICAL REPORT BY OTHERS.
- 8. THE PROPOSED CONTOURS SHOWN ARE FINISHED ELEVATIONS. REFER TO PAVEMENT AND SIDEWALK DETAILS TO ESTABLISH CORRECT SUBBASE OR AGGREGATE BASE COURSE ELEVATIONS TO BE COMPLETED UNDER THIS CONTRACT. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE SO THAT RUNOFF WILL FLOW BY GRAVITY AWAY FROM BUILDINGS AND ACROSS NEW PAVEMENT AND/OR
- LANDSCAPE AREAS TO NEW OR EXISTING STORM DRAIN INLETS, SWALES, DITCHES OR OVERLAND SHEET FLOW.
- 11. TO MINIMIZE DAMAGE TO EXISTING TREES NEAR THE EXTERIOR EDGE OF BUFFERS AND STREETSCAPE, THE CONTRACTOR SHALL CUT MINIMUM 2" TRENCHES

10. GRADE BUILDING PAD(S) TO A LEVEL BELOW FINISHED FLOOR ELEVATION EQUAL TO THE FLOOR SLAB THICKNESS TO AN ACCURACY OF 1/10TH OF A FOOT.

- ALONG THE LIMITS OF DISTURBANCE SO AS TO CUT, RATHER THAN TEAR, ROOTS.
- 12. ALL STORM DRAINAGE PIPING SHALL BE CLASS III REINFORCED CONCRETE PIPE (RCP) UNLESS OTHERWISE NOTED.
- 13. SEE SHEET 13 FOR DRAINAGE STRUCTURE DETAILS.

CB B7 OPENING ELEV. = 407.17 INV IN = 402.45 (CB B8) FES C INV = 419.50 (CB C1) INV IN = 402.45 (CB B8)
INV IN = 402.45 (CB B17)
INV OUT = 401.70 (CB B6)
200 LF 18" RCP @ 1.82% Slope

CB P8

CB P8

CB C1

OPENING ELEV. = 429.19
INV IN = 424.90 (CB C2)
INV IN = 424.65 (CB C3) <u>CB B8</u> <u>OPENING ELEV. = 417.14</u> 54 LF 24" RCP @ 9.47% Slope INV IN = 412.60 (CB B9) INV OUT = 412.40 (CB B7) <u>CB C2</u> OPENING ELEV. = 432.88 271 LF 18" RCP @ 3.68% Slope INV OUT = 428.60 (CB C1)

CB B9 162 LF 18" RCP @ 2.29% Slope B9
JPENING ELEV. = 414.79
INV OUT = 412.85 (CB B8)
25 LF 15" RCP @ 1.02% Slope

CB C3
OPENING ELEV. = 429.19
INV OUT = 424.90 (CB C1)
25 LF 18" RCP @ 1.02% Slope CB B9

OPENING ELEV. = 414.79
INV OUT = 412.85 (CB B8) INV IN = 402.90 (DI B18) INV OUT = 402.70 (CB B7) 25 LF 18" RCP @ 1.02% Slope DI B18 <u>DI B18</u> OPENING ELEV. = 405.69 INV OUT = 403.75 (CB B17) 24 LF 15" RCP @ 3.60% Slope



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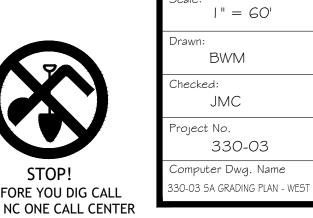
THE LEGACY - PHASE 3
CONSTRUCTION PLANS
ADING & DRAINAGE PLAN -

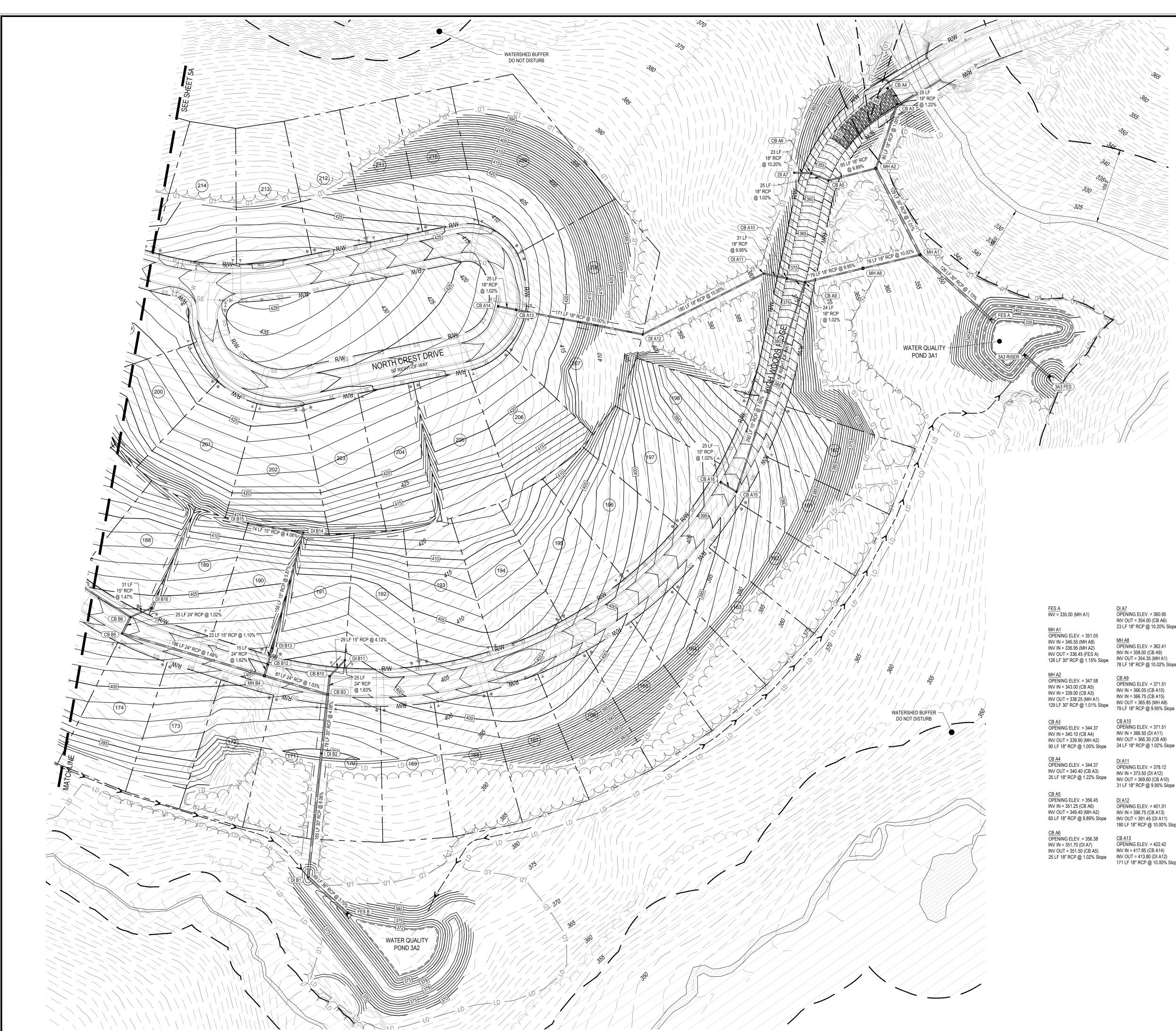
05/14/2019

BEFORE YOU DIG CALL THE NC ONE CALL CENTER 1-800-632-4949 IT'S THE LAW!

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL CHATHAM COUNTY, NCDEQ PWSS, AND NCDOT STANDARDS AND PROJECT-SPECIFIC SPECIFICATIONS DATED MAY 14TH.

SCALE: 1" = 60'





LECEND

LEGEND	
	PROPERTY LINE (PL) RIGHT-OF-WAY LINE SETBACK LINE UTILITY EASEMENT
	EXISTING MAJOR CONTOUR
TW=100.0' BW=100.0'	FLARED END SECTION STORM MANHOLE YARD INLET CATCH BASIN FLOW ARROW PROPOSED SPOT ELEVATION PROPOSED GRADE AT TOP OF WALL PROPOSED GRADE AT BOTTOM OF WALL

GENERAL GRADING NOTES

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- DETAILS TO ESTABLISH CORRECT SUBBASE OR AGGREGATE BASE COURSE ELEVATIONS TO BE COMPLETED UNDER THIS CONTRACT.

THE PROPOSED CONTOURS SHOWN ARE FINISHED ELEVATIONS. REFER TO PAVEMENT AND SIDEWALK

- CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE SO THAT RUNOFF WILL FLOW BY GRAVITY AWAY FROM BUILDINGS AND ACROSS NEW PAVEMENT AND/OR LANDSCAPE AREAS TO NEW OR EXISTING STORM DRAIN INLETS, SWALES, DITCHES OR OVERLAND SHEET FLOW.
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- 11. TO MINIMIZE DAMAGE TO EXISTING TREES NEAR THE EXTERIOR EDGE OF BUFFERS AND STREETSCAPE, THE CONTRACTOR SHALL CUT MINIMUM 2" TRENCHES ALONG THE LIMITS OF DISTURBANCE SO AS TO CUT, RATHER THAN TEAR, ROOTS.
- 12. ALL STORM DRAINAGE PIPING SHALL BE CLASS III REINFORCED CONCRETE PIPE (RCP) UNLESS OTHERWISE NOTED.
- 13. SEE SHEET 13 FOR DRAINAGE STRUCTURE DETAILS.



Y - PHASE (TION PLANS NAGE PLAN

301 GLENWOOD AVE. 220

RALEIGH,NC 27603

PHONE: 919-367-8790

FAX: 919-322-0032

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License # C-1739

DI A7 CB A14 FES B
OPENING ELEV. = 360.95 OPENING ELEV. = 422.42 INV = 373.00 (DI B1) OPENING ELEV. = 398.31 INV OUT = 354.00 (CB A6) INV OUT = 418.10 (CB A13) INV IN = 394.05 (DI B11) INV OUT = 354.00 (CB Ab) INV OUT = 410.10 (OB A10),
23 LF 18" RCP @ 10.20% Slope 25 LF 18" RCP @ 1.02% Slope DI B1
OPENING ELEV. = 379.58 INV OUT = 393.80 (CB B3) 25 LF 24" RCP @ 1.63% Slope INV IN = 376.05 (DI B2) OPENING ELEV. = 393.39 INV IN = 388.85 (CB A16) INV OUT = 375.55 (FES B) OPENING ELEV. = 362.41 OPENING ELEV. = 399.50 69 LF 36" RCP @ 3.70% Slope INV IN = 358.00 (CB A9) INV OUT = 395.25 (CB B10) INV OUT = 354.35 (MH A1) INV OUT = 300.00 (OD A),
78 LF 18" RCP @ 10.02% Slope 292 LF 15" RCP @ 7.50% Slope OPENING ELEV. = 394.78 29 LF 15" RCP @ 4.12% Slope

<u>CB A16</u> OPENING ELEV. = 393.39

INV OUT = 389.10 (CB A15)

INV IN = 366.75 (CB A15) INV IN = 366.75 (CB A15) INV OUT = 365.85 (MH A8) 79 LF 18" RCP @ 9.95% Slope 25 LF 15" RCP @ 1.02% Slope <u>CB B3</u> OPENING ELEV. = 398.31 INV IN = 392.95 (MH B4) <u>CB A10</u> OPENING ELEV. = 371.51 INV IN = 366.50 (DI A11) INV OUT = 366.30 (CB A9)

<u>CB A4</u> OPENING ELEV. = 344.37 OPENING ELEV. = 378.12 INV OUT = 340.40 (CB A3) INV IN = 373.50 (DI A12) 25 LF 18" RCP @ 1.22% Slope INV OUT = 369.60 (CB A10) 31 LF 18" RCP @ 9.95% Slope <u>CB A5</u> OPENING ELEV. = 356.45 <u>DI A12</u> OPENING ELEV. = 401.01

INV IN = 396.75 (CB A13)

171 LF 18" RCP @ 10.00% Slope

OPENING ELEV. = 371.51

INV IN = 366.05 (CB A10)

180 LF 18" RCP @ 10.00% Slope <u>CB A6</u> OPENING ELEV. = 356.38 <u>CB A13</u> OPENING ELEV. = 422.42 INV IN = 351.70 (DI A7) INV OUT = 351.50 (CB A5) INV IN = 417.85 (CB A14) 25 LF 18" RCP @ 1.02% Slope INV OUT = 413.80 (DI A12)

INV IN = 389.55 (CB B3) OPENING ELEV. = 399.48 INV IN = 394.80 (DI B13) INV OUT = 389.35 (DI B1) 165 LF 30" RCP @ 8.06% Slope INV OUT = 394.60 (MH B4) 15 LF 24" RCP @ 1.62% Slope

INV IN = 393.40 (CB B10) INV OUT = 392.75 (DI B2) 78 LF 30" RCP @ 4.08% Slope 23 LF 15" RCP @ 1.10% Slope MH B4 OPENING ELEV. = 399.70 INV IN = 394.70 (CB B5) INV IN = 394.35 (CB B12)

OPENING ELEV. = 399.50 INV IN = 395.25 (DI B14)

31 LF 15" RCP @ 1.47% Slope

87 LF 24" RCP @ 1.03% Slope CB B5 OPENING ELEV. = 403.08 INV IN = 397.80 (CB Bb) INV OUT = 397.60 (MH B4) 196 LF 24" RCP @ 1.48% Slope DI B16 OPENING ELEV. = 403.50 INV OUT = 399.25 (CB B6)

INV OUT = 393.85 (CB B3)

CB B6 OPENING ELEV. = 403.08 INV IN = 398.05 (CB B7) INV IN = 398.80 (DI B16) INV OUT = 398.05 (CB B5) 25 LF 24" RCP @ 1.02% Slope

THE LEGACY - PH
CONSTRUCTION PI
ADING & DRAINAGE F INV OUT = 395.05 (CB B12) OPENING ELEV. = 409.00 INV IN = 404.75 (DI B15) INV OUT = 404.55 (DI B13) 159 LF 15" RCP @ 5.87% Slope <u>DI B15</u> OPENING ELEV. = 412.00 INV OUT = 407.75 (DI B14) 74 LF 15" RCP @ 4.06% Slope



SCALE: 1" = 60'

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Sheet No:

5B

05/14/2019

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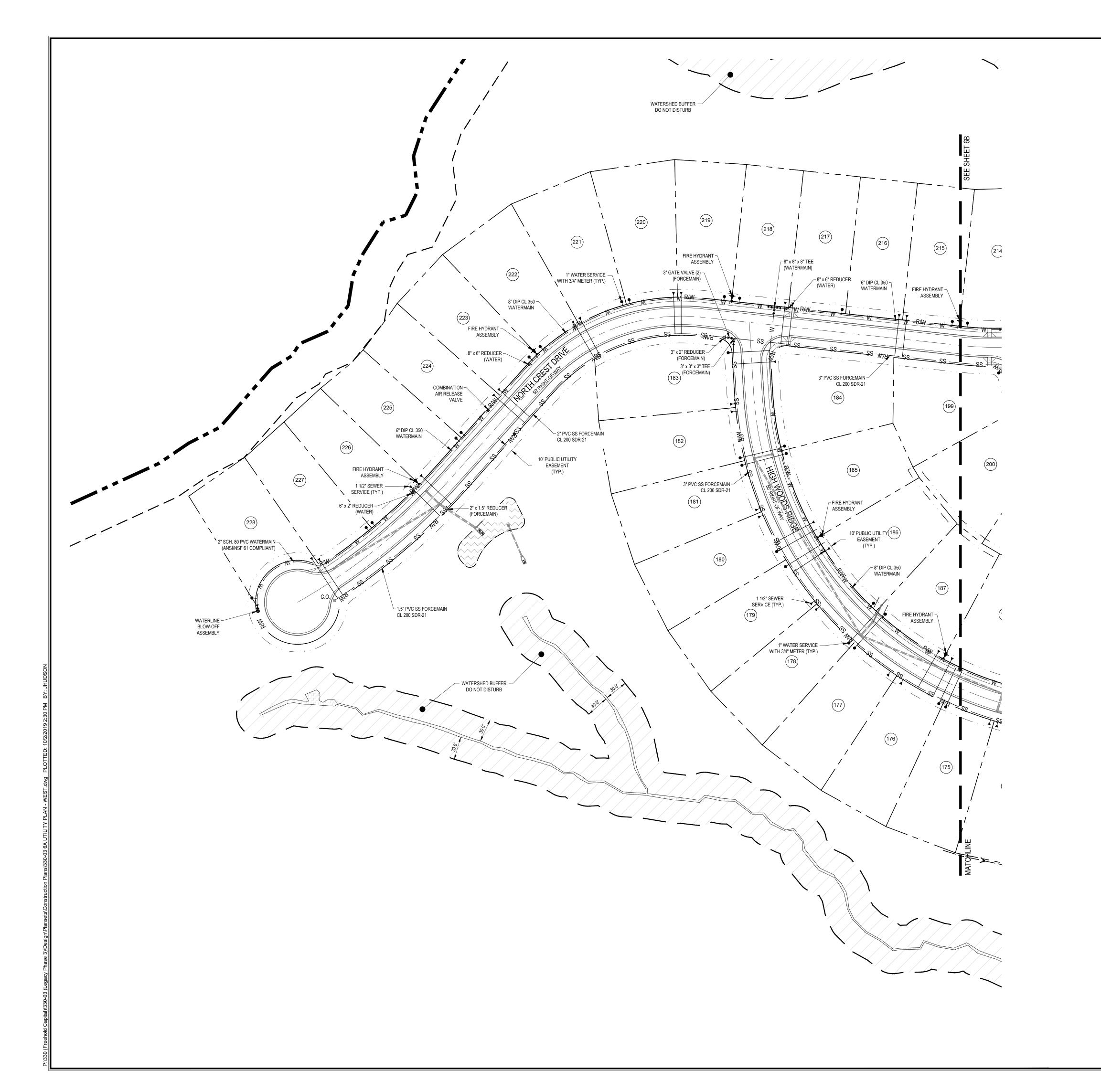
BWM

JMC

330-03

Computer Dwg. Name 30-03 5B GRADING PLAN - EAST

roject No.



LEGEND

—— G —— G —— OHE ——	PROPOSED WATER LINE PROPOSED STORM DRAINAGE PIPE PROPOSED GAS LINE PROPOSED OVERHEAD ELECTRIC LINE PROPOSED UNDERGROUND ELECTRIC LINE PROPOSED FIBER OPTIC LINE
⑤ ◎ C. O.	PROPOSED SS MANHOLE PROPOSED SS CLEANOUT
₩	PROPOSED WATER METER
→	PROPOSED GATE VALVE PROPOSED FIRE HYDRANT ASSEMBLY
o ∺ ▷	PROPOSED WATERLINE REDUCER PROPOSED WATERLINE BLOW-OFF ASSEMBLY PROPOSED REDUCER
⊕⊷	PROPOSED SEWER FORCE MAIN BLOW-OFF ASSEMBLY

PROPOSED AIR RELEASE VALVE

GENERAL UTILITY NOTES

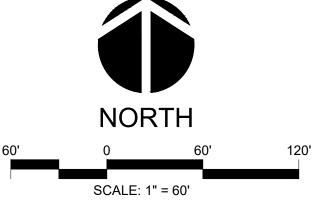
- 1. EXISTING UTILITIES ARE SHOWN FROM THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THESE AND OTHER UTILITIES PRIOR TO BEGINNING ANY DEMOLITION OR CONSTRUCTION. NOTIFY UTILITY LOCATING COMPANY (ONE CALL @ 1-800-632-4949) OR INDIVIDUAL UTILITY OWNERS FOR UNDERGROUND LOCATIONS AT LEAST 48 HOURS IN ADVANCE.
- ANY LOT WHICH CONNECTS TO THE GRAVITY SANITARY SEWER VIA A GRAVITY SERVICE CONNECTION WILL REQUIRE A SEWER BACKWATER VALVE IF THE FINISHED FLOOR ELEVATION IS LOWER THAN THE UPSTREAM MANHOLE RIM
- 3. REFER TO ROADWAY PLAN / PROFILES FOR DETAILED UTILITY INFORMATION.
- 4. ALL LOTS ON THIS OVERALL UTLITY PLAN SHALL HAVE A WILKENS 70 SERIES WATER PRESSURE REDUCING VALVE MODEL 70SS INSTALLED BEYOND THE METER ON EACH LOT.
- 5. ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CHATHAM COUNTY PUBLIC UTILITIES AND WATER DIVISION STANDARDS AND REGULATIONS.
- 6. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN AND/OR PROFILE BY CHATHAM COUNTY AND THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION.
- 7. CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF THE PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24 HOUR ADVANCE NOTICE TO CHATHAM COUNTY AND/OR THE UTILITY COMPANY.
- 8. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS AND SEWER FORCEMAINS.
- 9. CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO RELOCATE ANY UTILITY POLES AND/OR STRUCTURES AS SHOWN ON THE PLANS OR OTHERWISE, AS NEEDED FOR CONSTRUCTION. ALL EXISTING FACILITIES WHICH CONFLICT WITH THE IMPROVEMENTS UNDER THE SCOPE OF THIS PROJECT SHALL BE RELOCATED AT THE EXPENSE OF THE APPLICANT UPON APPROVAL.
- CONTRACTOR TO COORDINATE UTILITY PLAN WITH PLUMBING PLANS, BY OTHERS, FOR EXACT LOCATION OF WATER AND SEWER CONNECTIONS INTO THE BUILDING(S).
- 11. CONTRACTOR TO COORDINATE UTILITY PLAN WITH ELECTRICAL PLANS, BY OTHERS, FOR ELECTRICAL AND TELECOMMUNICATIONS ROUTING AND CONNECTION INFORMATION.
- 12. CONTRACTOR TO FIELD ADJUST VALVE BOXES, CLEAN-OUTS AND MANHOLES TO MATCH FINISHED GRADE.
- 13. ALL BENDS ON WATERLINES SHALL HAVE THRUST BLOCKING PER CHATHAM COUNTY PUBLIC UTILITIES & WATER DIVISION DETAILS AND SPECIFICATIONS.

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- 8. ALL WATER MAINS SHALL BE OVER THE SEWER MAIN AND SERVICES WITH A MINIMUM OF 18" SEPARATION.
- ALL WATER MAINS AND FORCE MAINS CROSSING UNDER STORM DRAINAGE PIPING SHALL BE CONSTRUCTED WITH ONE (1) JOINT
 OF DUCTILE IRON PIPE CENTERED ON THE STORM PIPE CROSSING.
- 10. INSTREAM WORK SHALL BE PROHIBITED FROM MARCH 15 THROUGH JUNE 30 TO MINIMIZE IMPACTS TO SPAWNING FISH.
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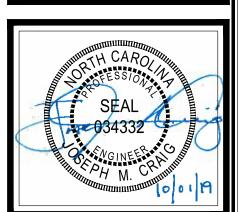
5 NCDEQ-PWSS COMMENTS
4 NCDEQ-PERCS COMMENTS
3 WATERLINE REVISIONS
COS/09/20
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COS/08/20
COS/08/2



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LEGACY - PHASE 3
NSTRUCTION PLANS
LITY PLAN - WEST

Date:

O5/14/2019

Scale:

I" = 60'

Drawn:

BWM

Checked:

JMC

Project No.

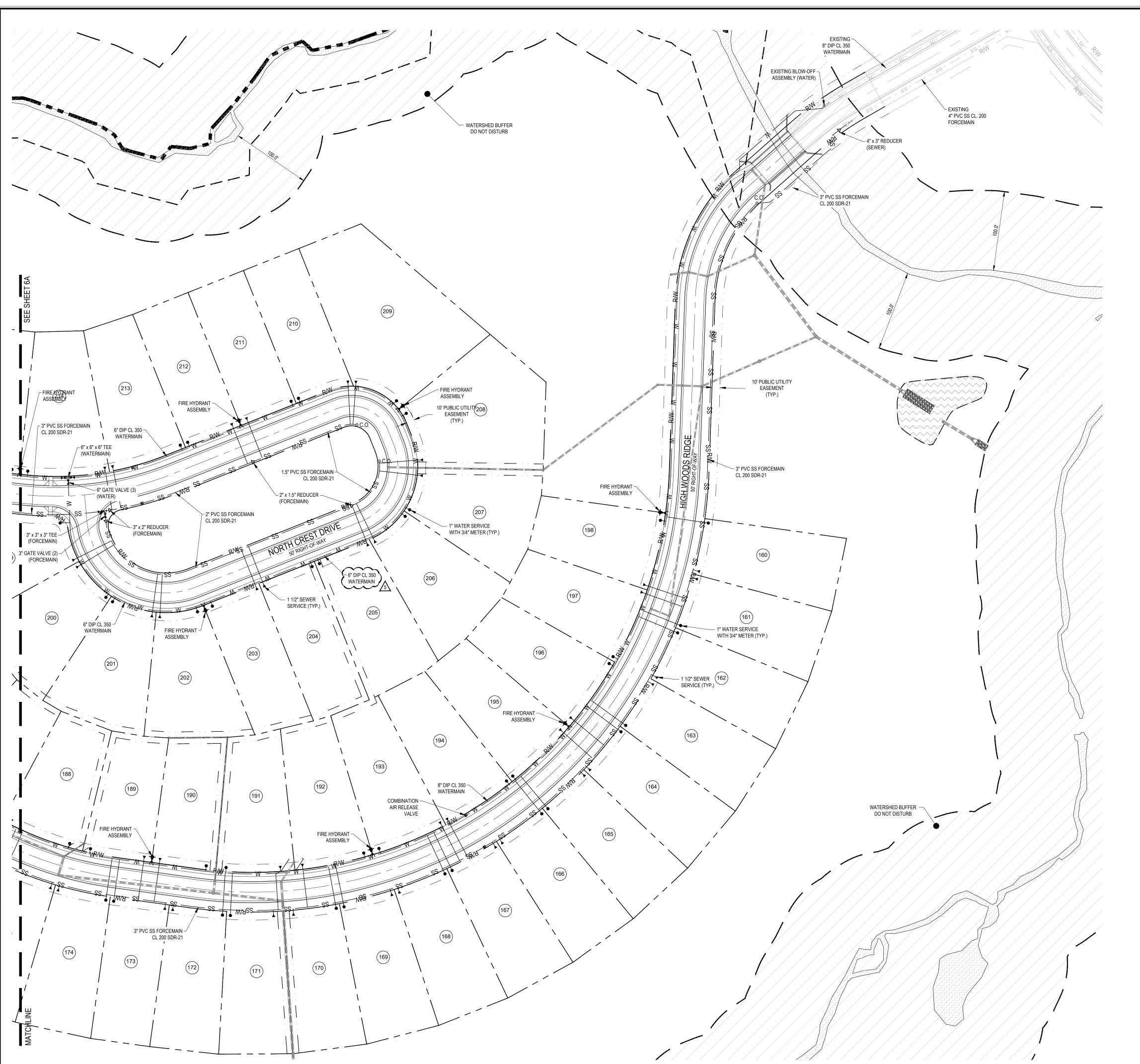
330-03

Computer Dwg. Name

Sheet No:

6A

30-03 6A UTILITY PLAN - WEST



LEGEND

	PROPERTY LINE (PL)
——— R/W ———	RIGHT-OF-WAY LINE
	SETBACK LINE
	UTILITY EASEMENT
	PROPOSED GRAVITY SEWER
**	PROPOSED WATER LINE
	PROPOSED STORM DRAINAGE PIPE
•	PROPOSED GAS LINE
V	PROPOSED OVERHEAD ELECTRIC LINE
	PROPOSED UNDERGROUND ELECTRIC LINE
— F0 — F0 — FM — FM — FM — FM — FM — FM	
FIVI ——	PROPOSED SEWER FORCE MAIN
S	PROPOSED SS MANHOLE
● C.O.	PROPOSED SS CLEANOUT
WM	PROPOSED WATER METER
H	PROPOSED GATE VALVE
- ♦ ▶4	PROPOSED FIRE HYDRANT ASSEMBLY
•	PROPOSED WATERLINE REDUCER
9 H	PROPOSED WATERLINE BLOW-OFF ASSEMBLY
\triangleright	PROPOSED REDUCER
\oplus	PROPOSED SEWER FORCE MAIN BLOW-OFF AS
D	PROPOSED AIR RELEASE VALVE

GENERAL UTILITY NOTES

EXISTING UTILITIES ARE SHOWN FROM THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THESE AND OTHER UTILITIES PRIOR TO BEGINNING ANY DEMOLITION OR CONSTRUCTION. NOTIFY UTILITY LOCATING COMPANY (ONE CALL @ 1-800-632-4949) OR INDIVIDUAL UTILITY OWNERS FOR UNDERGROUND LOCATIONS AT LEAST 48 HOURS IN ADVANCE.

- 2. ANY LOT WHICH CONNECTS TO THE GRAVITY SANITARY SEWER VIA A GRAVITY SERVICE CONNECTION WILL REQUIRE A SEWER BACKWATER VALVE IF THE FINISHED FLOOR ELEVATION IS LOWER THAN THE UPSTREAM MANHOLE RIM ELEVATION.
- 3. REFER TO ROADWAY PLAN / PROFILES FOR DETAILED UTILITY INFORMATION.
- 4. ALL LOTS ON THIS OVERALL UTLITY PLAN SHALL HAVE A WILKENS 70 SERIES WATER PRESSURE REDUCING VALVE MODEL 70SS INSTALLED BEYOND THE METER ON EACH LOT.
- 5. ALL MATERIALS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CHATHAM COUNTY PUBLIC UTILITIES AND WATER DIVISION STANDARDS AND REGULATIONS.
- 6. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN AND/OR PROFILE BY CHATHAM COUNTY AND THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF THE PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24 HOUR ADVANCE NOTICE TO CHATHAM COUNTY AND/OR THE UTILITY COMPANY.
- 8. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS AND SEWER FORCEMAINS.
- 9. CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE APPROPRIATE UTILITY COMPANY TO RELOCATE ANY UTILITY POLES AND/OR STRUCTURES AS SHOWN ON THE PLANS OR OTHERWISE, AS NEEDED FOR CONSTRUCTION. ALL EXISTING FACILITIES WHICH CONFLICT WITH THE IMPROVEMENTS UNDER THE SCOPE OF THIS PROJECT SHALL BE RELOCATED AT THE EXPENSE OF THE APPLICANT UPON
- 10. CONTRACTOR TO COORDINATE UTILITY PLAN WITH PLUMBING PLANS, BY OTHERS, FOR EXACT LOCATION OF WATER AND SEWER CONNECTIONS INTO THE BUILDING(S).
- 11. CONTRACTOR TO COORDINATE UTILITY PLAN WITH ELECTRICAL PLANS, BY OTHERS, FOR ELECTRICAL AND TELECOMMUNICATIONS ROUTING AND CONNECTION INFORMATION.
- 12. CONTRACTOR TO FIELD ADJUST VALVE BOXES, CLEAN-OUTS AND MANHOLES TO MATCH FINISHED GRADE.
- 13. ALL BENDS ON WATERLINES SHALL HAVE THRUST BLOCKING PER CHATHAM COUNTY PUBLIC UTILITIES & WATER DIVISION DETAILS AND SPECIFICATIONS.

GENERAL CONSTRUCTION NOTES

TOPOGRAPHY FROM AERIAL MAPPING.

- EXISTING UNDERGROUND STRUCTURES AND UTILITIES SHOWN ARE BASED ON FIELD SURVEYS AND BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES, PRIOR TO STARTING CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- 2. THE CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE CALL AT 1-800-632-4949. THE CONTRACTOR SHALL CALL AT LEAST 48 HOURS PRIOR TO ANY DIGGING.
- 3. ALL WATER UTILITY CONSTRUCTION SHALL CONFORM TO THE CHATHAM COUNTY STANDARDS AND SPECIFICATIONS.
- 4. ALL SANITARY SEWER UTILITY CONSTRUCTION SHALL CONFORM TO LATEST AQUA OF NORTH CAROLINA STANDARDS AND
- 5. THE SUBJECT PROPERTY IS LOCATED IN A FLOOD HAZARD AREA PER FEMA FIRM PANEL 9773, MAP NUMBER 3710977300J, DATED 02/02/07, & FEMA FIRM PANEL 9782, MAP NUMBER 3710978200J, DATED 02/02/07.
- 6. AQUA PERSONNEL SHALL BE NOTIFIED 48 HOURS BEFORE CONSTRUCTION IS TO BEGIN, ANY TESTING IS SCHEDULED, OR BEFORE ANY PIPE IS COVERED.
- 7. ALL WATER MAINS SHALL HAVE A MINIMUM OF 3.0' OF COVER AS MEASURED FROM FINISHED GRADE AT THE LOCATION WHERE
- 8. ALL WATER MAINS SHALL BE OVER THE SEWER MAIN AND SERVICES WITH A MINIMUM OF 18" SEPARATION.
- 9. ALL WATER MAINS AND FORCE MAINS CROSSING UNDER STORM DRAINAGE PIPING SHALL BE CONSTRUCTED WITH ONE (1) JOINT OF DUCTILE IRON PIPE CENTERED ON THE STORM PIPE CROSSING.

SCALE: 1" = 60'

- 10. INSTREAM WORK SHALL BE PROHIBITED FROM MARCH 15 THROUGH JUNE 30 TO MINIMIZE IMPACTS TO SPAWNING FISH.
- 11. TOPOGRAPHIC INFORMATION PROVIDED BY CE GROUP, INC. RALEIGH, NC. PROFILE DATA FROM FIELD SURVEY BACKGROUND



BEFORE YOU DIG CALL

THE NC ONE CALL CENTER 1-800-632-4949 IT'S THE LAW!

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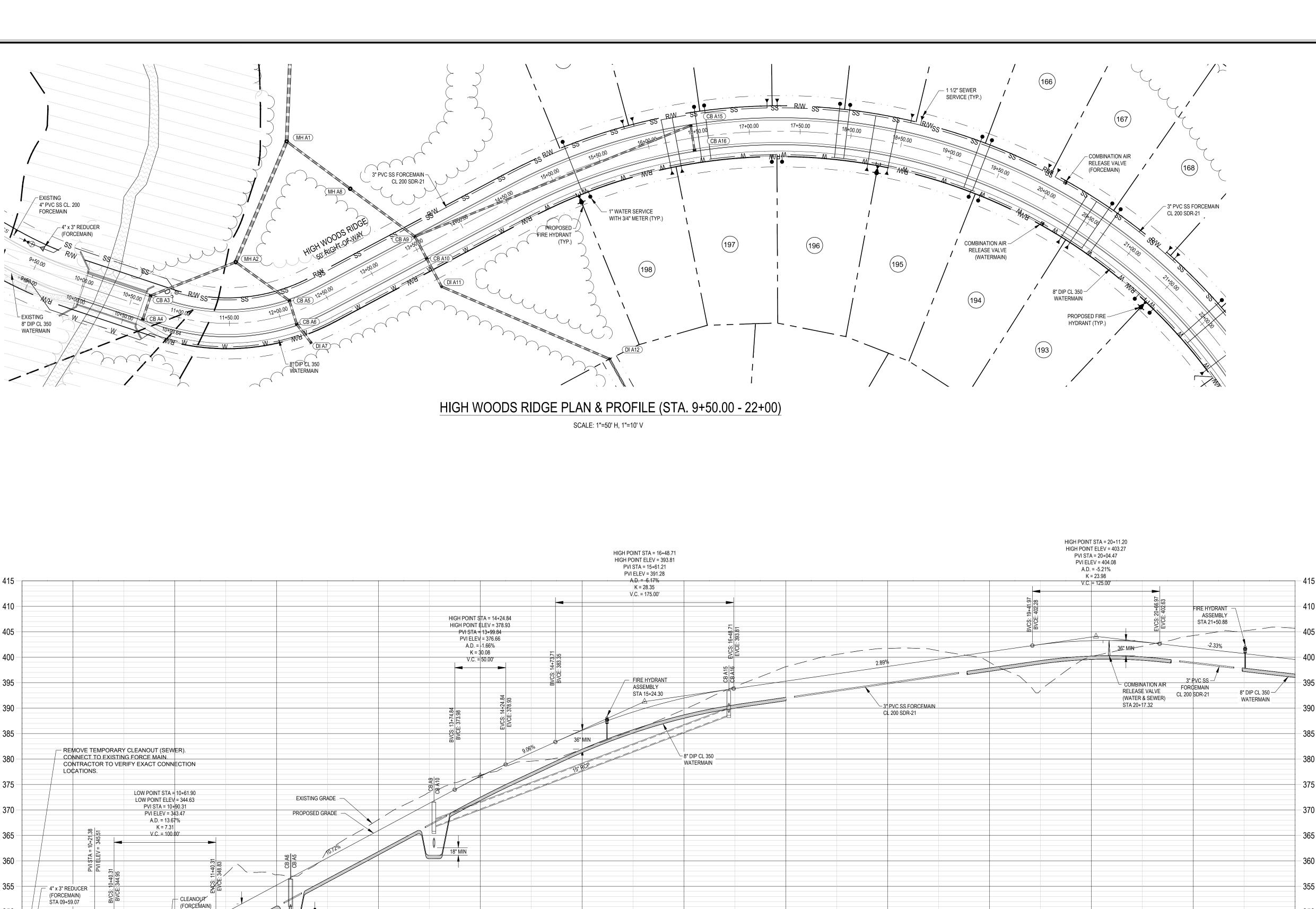


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05/14/2019 1" = 60' BWM JMC oject No. 330-03 Computer Dwg. Name 30-03 6B UTILITY PLAN - EAST



– STA 10+93.79[°]

~ 3" PVC SS FORCEMAIN

- UTILIZE EXISTING 16" STEEL ENCASEMENT PIPE (WATER)

UTILIZE EXISTING 10" STEEL ENCASEMENT PIPE (SEWER)

11+50.00

12+00.00

12+50.00

13+00.00

13+50.00

14+00.00

14+50.00

15+00.00

15+50.00

16+00.00

16+50.00

17+00.00

17+50.00

18+00.00

18+50.00

19+00.00

19+50.00

20+00.00

20+50.00

21+00.00 21+50.00 22+00.00

CL 200 SDR-21

EXISTING -BRIDGE -

8" DIP CL 350

WATERMAIN

REMOVE TEMPORARY BLOW-OFF (WATER).

CONTRACTOR TO VERIFY EXACT CONNECTION

11+00.00

CONNECT TO EXISTING WATER MAIN.

LOCATIONS.

10+00.00

LEGEND

	PROPERTY LINE (PL)
R/W	RIGHT-OF-WAY LINE
	SETBACK LINE
· · · · · · · · · · · · · · · · · · ·	UTILITY EASEMENT
140	EXISTING MAJOR CONTOUR
— — — — 139 — — — —	EXISTING MINOR CONTOUR
140	PROPOSED MAJOR CONTOUR
139	PROPOSED MINOR CONTOUR
	PROPOSED STORM DRAINAGE PIPE
SS SS	PROPOSED GRAVITY SEWER
W W	PROPOSED WATER LINE
— TP —— TP —	PROPOSED TREE PROTECTION FENCE
— LD —— LD —	PROPOSED LIMITS OF DISTURBANCE
	PROPOSED RETAINING WALL
	FLARED END SECTION

PROPERTY LINE (PL)

STORM MANHOLE YARD INLET CATCH BASIN FLOW ARROW

PROPOSED SPOT ELEVATION PROPOSED GRADE AT TOP OF WALL PROPOSED GRADE AT BOTTOM OF WALL

GENERAL GRADING NOTES

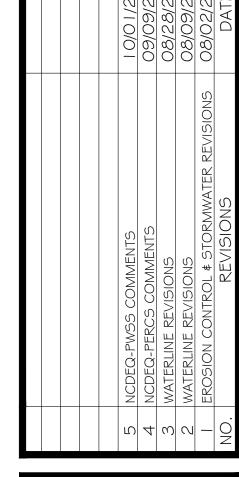
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6. CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE.

- 8. THE PROPOSED CONTOURS SHOWN ARE FINISHED ELEVATIONS. REFER TO PAVEMENT AND SIDEWALK DETAILS TO ESTABLISH CORRECT SUBBASE OR AGGREGATE BASE COURSE ELEVATIONS TO BE
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STORM DRAIN INLETS, SWALES, DITCHES OR OVERLAND SHEET FLOW.

- 11. TO MINIMIZE DAMAGE TO EXISTING TREES NEAR THE EXTERIOR EDGE OF BUFFERS AND STREETSCAPE, THE CONTRACTOR SHALL CUT MINIMUM 2" TRENCHES ALONG THE LIMITS OF DISTURBANCE SO AS TO CUT, RATHER THAN TEAR, ROOTS.
- 12. ALL STORM DRAINAGE PIPING SHALL BE CLASS III REINFORCED CONCRETE PIPE (RCP) UNLESS OTHERWISE NOTED.
- 415 13. SEE SHEET 13 FOR DRAINAGE STRUCTURE DETAILS.





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THE LEGACY - PHASE 3
CONSTRUCTION PLANS
NN & PROFILE - HIGH WOODS R
STA. 9+50.00 - STA. 22+00

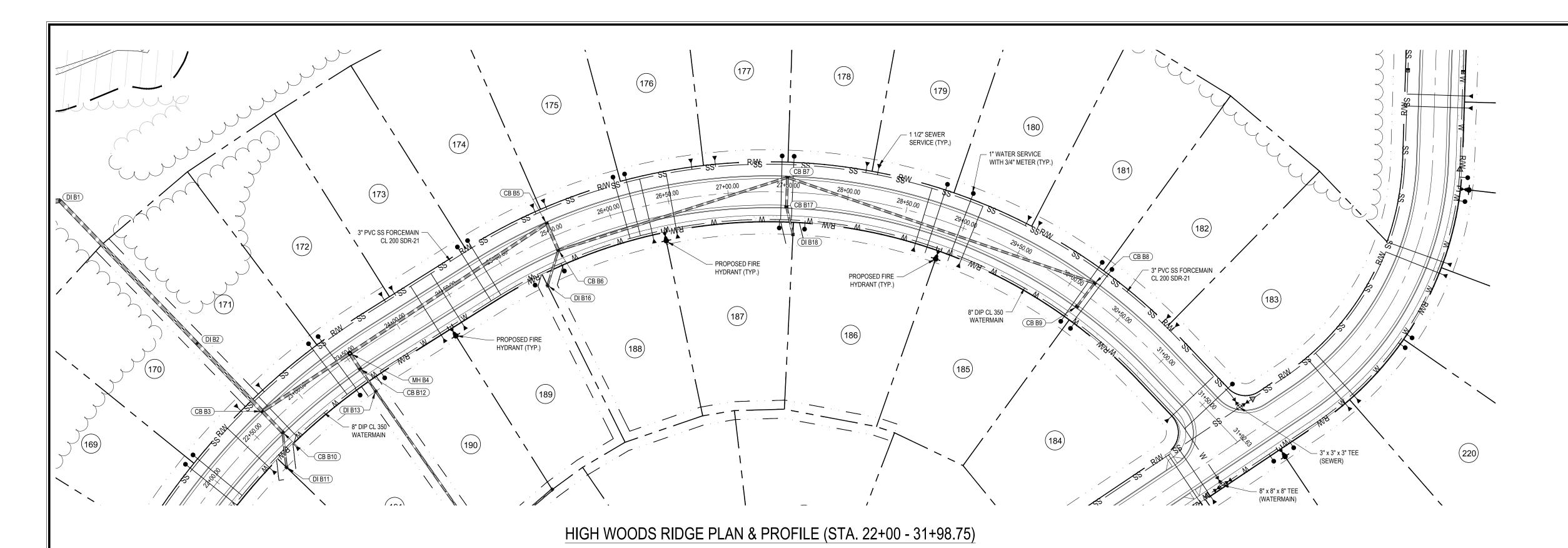


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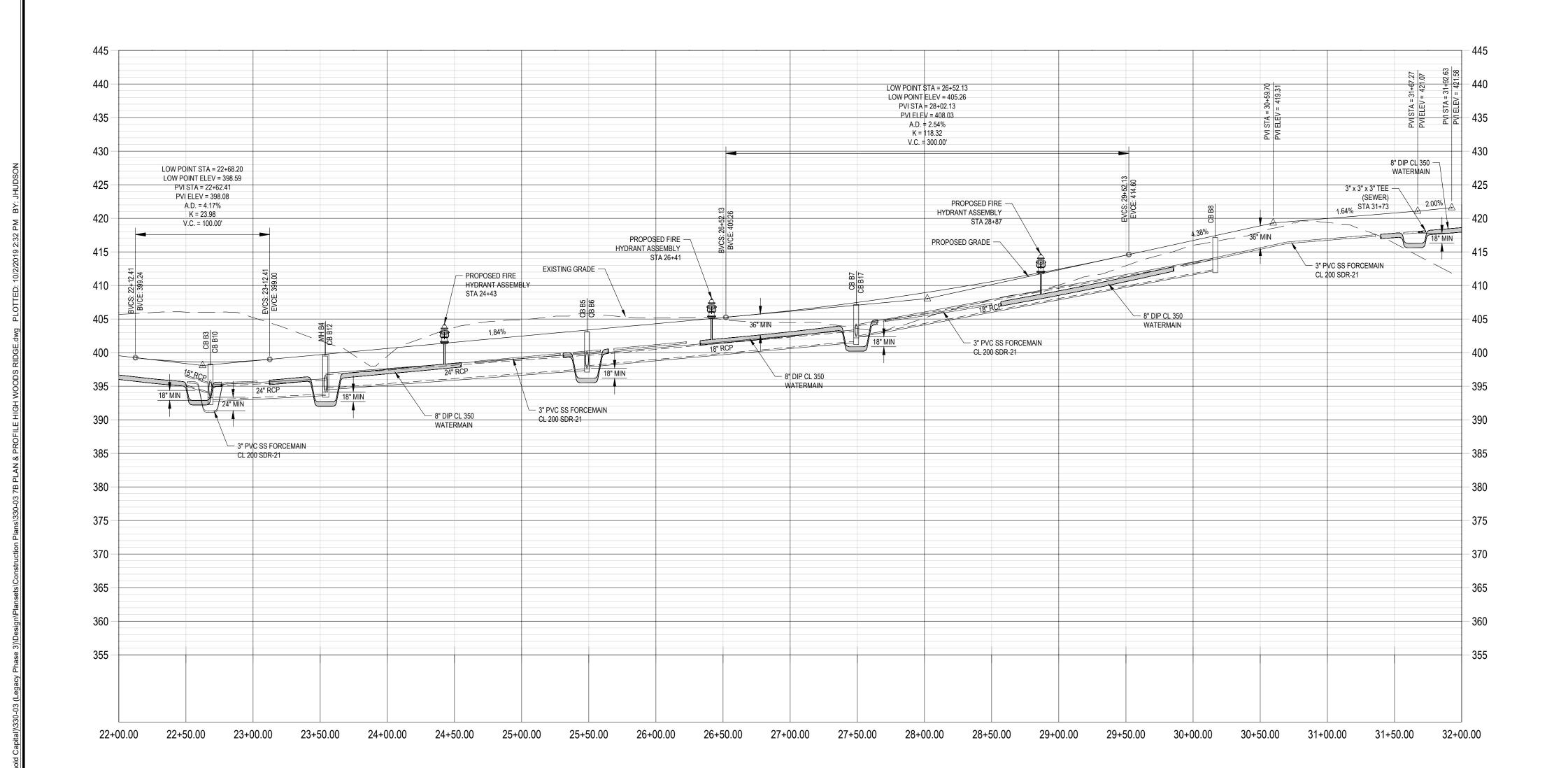
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SCALE: 1" = 50'

05/14/2019 I" = 50' BWM JMC roject No. 330-03 Computer Dwg. Name 30-03 7A PLAN \$ PROFILE HIGH WOODS RID



SCALE: 1"=50' H, 1"=10' V



LEGEND

R/W	PROPERTY LINE (PL) RIGHT-OF-WAY LINE SETBACK LINE UTILITY EASEMENT EXISTING MAJOR CONTOUR EXISTING MINOR CONTOUR PROPOSED MAJOR CONTOUR PROPOSED MINOR CONTOUR PROPOSED STORM DRAINAGE PIPE PROPOSED GRAVITY SEWER PROPOSED WATER LINE PROPOSED TREE PROTECTION FEN PROPOSED LIMITS OF DISTURBANCE PROPOSED RETAINING WALL
	FLARED END SECTION
•	STORM MANHOLE
	YARD INLET

CATCH BASIN PROPOSED SPOT ELEVATION PROPOSED GRADE AT TOP OF WALL

PROPOSED GRADE AT BOTTOM OF WALL

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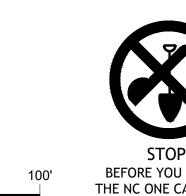




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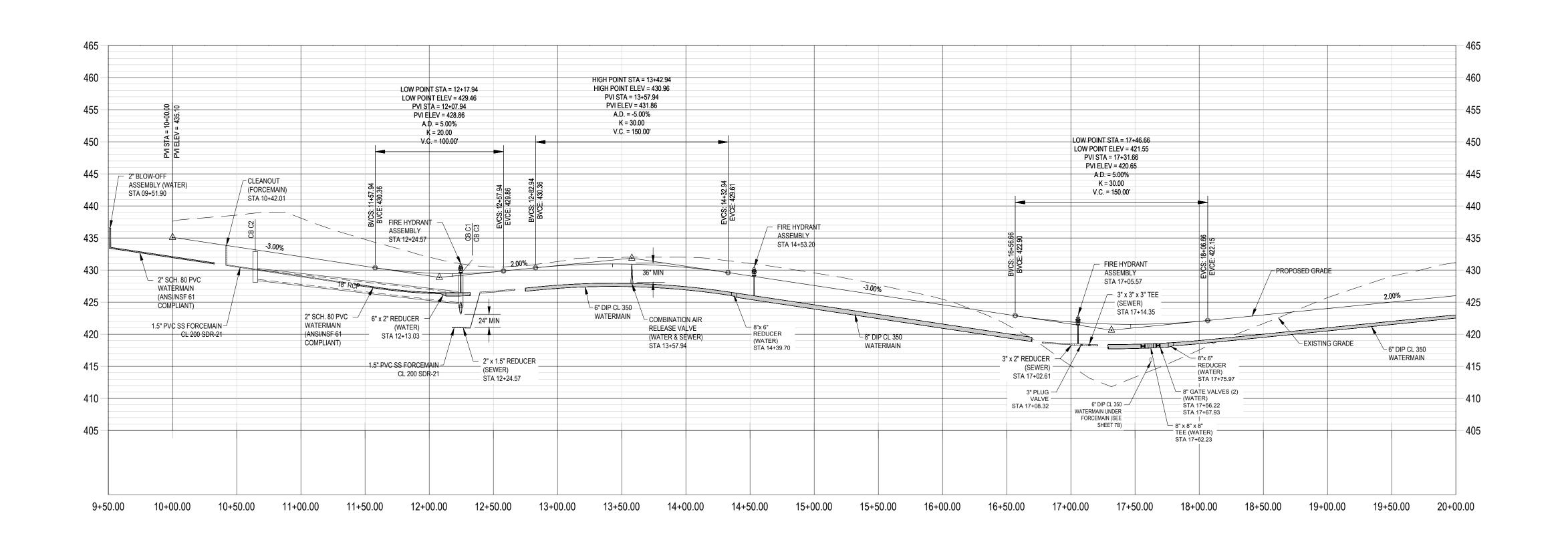
05/14/2019 I" = 50' BWM JMC roject No. 330-03 Computer Dwg. Name 30-03 7B PLAN \$ PROFILE HIGH WOODS RIE

Sheet No: 7B

— 1 1/2" SEWER SERVICE (TYP.) 8" DIP CL 350 \neg WATERMAIN HIGH WOODS RIDGE STA 31+98.75 NORTH CREST DRIVE STA 17+31.66 (217) 8" x 6" REDUCER -COMBINATION AIR -226 RELEASE VALVE ~8" x 6" REDUCER WITH 3/4" METER (TYP.) 6" DIP CL 350 -3" x 2" REDUCER -PROPOSED FIRE -(FORCEMAIN) HYDRANT (TYP.) ∕ 6" DIP CL 350 / 1" WATER SERVICE — 3" x 3" x 3" TEE ~ 6" x 2" REDUCER (2) 3" PLUG VALVES WITH 3/4" METER (TYP.) RELEASE VALVE (SEWER) (FORCEMAIN) 2" SCH. 80 PVC WATERMAIN -(ANSI/NSF 61 COMPLIANT) - 2" PVC SS FORCEMAIN 3" PVC SS FORCEMAIN ~ 2" BLOW-OFF ASSEMBLY (WATER)

NORTH CREST DRIVE PLAN & PROFILE (STA. 10+00 - 20+00)

SCALE: 1"=50' H, 1"=10' V



LEGEND

	I NOI LIVIT LINE (I L)
R/W	RIGHT-OF-WAY LINE
	SETBACK LINE
· · · · · ·	UTILITY EASEMENT
140	EXISTING MAJOR CONTOUR
— — — — 139 — — — —	EXISTING MINOR CONTOUR
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SS SS	PROPOSED GRAVITY SEWER
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— TP —— TP —	PROPOSED TREE PROTECTION FENCE
LD LD	PROPOSED LIMITS OF DISTURBANCE
	PROPOSED RETAINING WALL
	FLARED END SECTION
	STORM MANHOLE

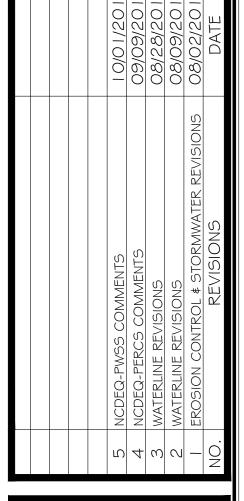
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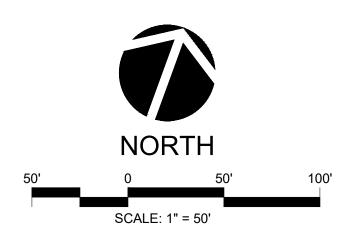


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