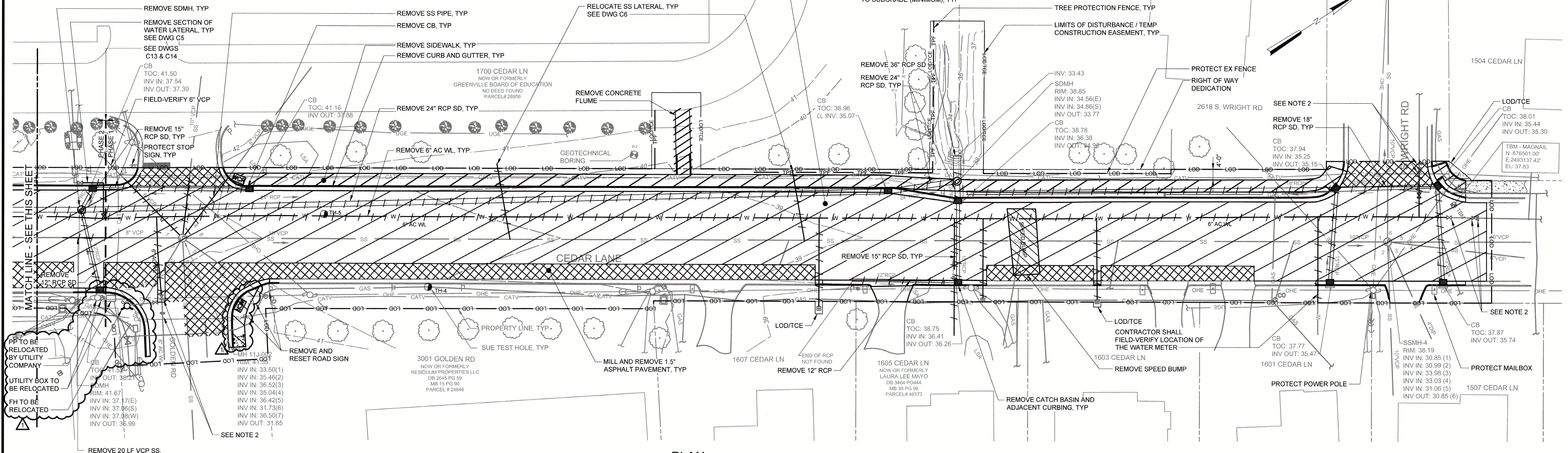


PLAN  
SCALE: 1" = 20'

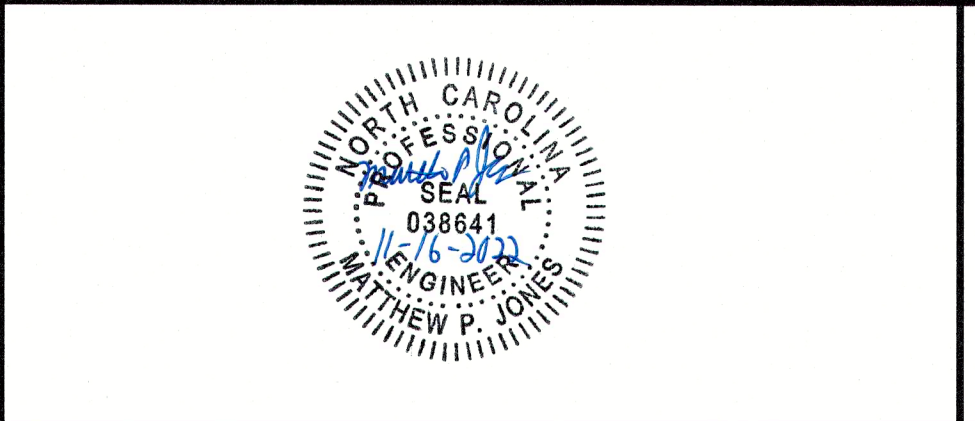


PLAN  
SCALE: 1" = 20'

- NOTES:**
- SEE SITE GENERAL NOTES DRAWING G3, FOR SURVEY, DATUM, AND FLOODPLAIN INFORMATION.
  - ISOLATION VALVES, 6" DIP, AND THRUST BLOCKING SHALL BE COMPLETED BY GUC PRIOR TO CONSTRUCTION. CONTRACTOR SHALL FIELD-VERIFY LOCATION OF VALVES AND CONNECT PER CONNECTION 5 DETAIL ON DWG C12.
  - CONTRACTOR SHALL ONLY REMOVE THE EXISTING WL WHERE NEEDED TO INSTALL NEW SD, SS, OR WL PIPING OR CONNECT TO THE EXISTING MAIN. ALL OTHER EXISTING AC WL SHALL BE ABANDONED IN PLACE. ASBESTOS CEMENT PIPE REMOVAL SHALL BE IN ACCORDANCE WITH OSHA 29 CFR 1926.1101 - ASBESTOS STANDARD FOR THE CONSTRUCTION INDUSTRY AND NCDHHS REGULATIONS.

△	CROSSWALK REVISION	11/2022	MPJ
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PROJECT ENGINEER:	K. BRAY
DESIGNED BY:	C. WILSON
DRAWN BY:	S. KANE
CHECKED BY:	M. SANTOWASSO
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	



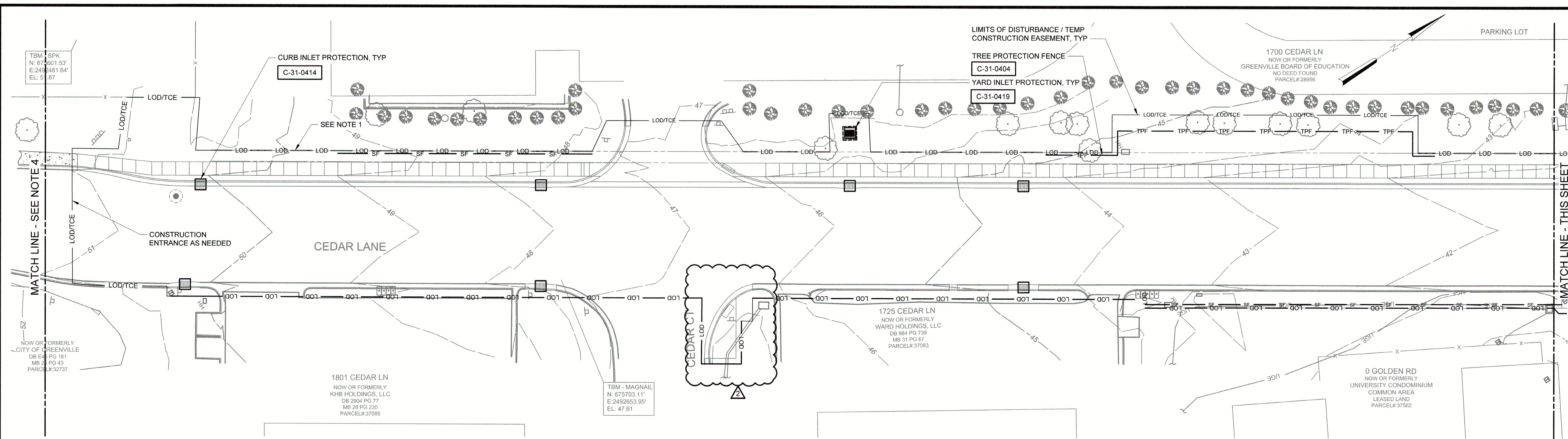
**Hazen**  
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4011 WESTCHASE BOULEVARD, SUITE 500  
RALEIGH, NORTH CAROLINA 27607  
LICENSE NO.: C-0381

CITY OF GREENVILLE  
GREENVILLE, NORTH CAROLINA  
  
CEDAR LANE DRAINAGE  
IMPROVEMENTS

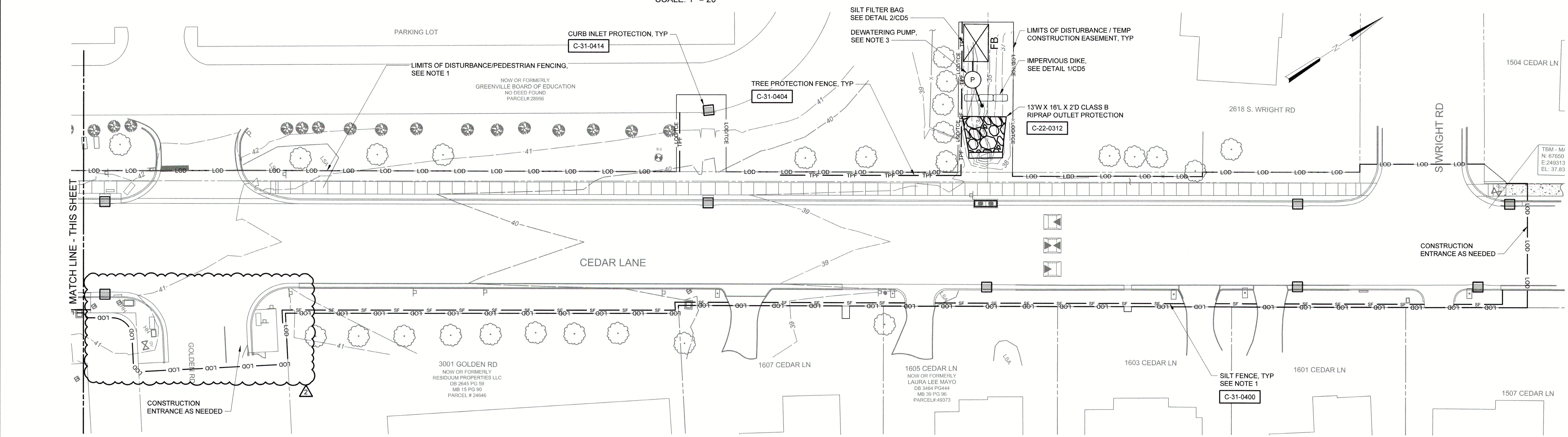
CIVIL  
EXISTING CONDITIONS & DEMOLITION PLAN

DATE:	JANUARY 2022
HAZEN NO.:	31187-003
CONTRACT NO.:	
DRAWING NUMBER:	C1

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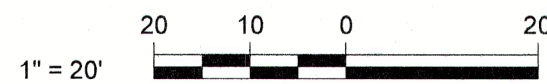
PLAN  
SCALE: 1" = 20'



PLAN  
SCALE: 1" = 20'

- NOTES:**
1. PEDESTRIAN FENCING SHALL BE LOCATED AT THE LOD. PEDESTRIAN FENCE SHALL BE THE SAME AS THE TREE PROTECTION FENCING. WITHOUT THE SIGNAGE. PEDESTRIAN FENCE, TREE PROTECTION FENCE, OR EXISTING FENCE IS NOT REQUIRED WHERE SILT FENCE IS SHOWN ALONG THE LOD OR WHERE TEMPORARY TRAFFIC CONTROL WILL BE ROUTED. SEE DWGS C13 AND C14.
  2. SEE GREENVILLE STD 310.01 FOR EROSION CONTROL STD NOTES, DWG CD1. SEE DWG G3 FOR EROSION CONTROL AND SEEDING NOTES.
  3. CONTRACTOR SHALL IMPLEMENT DEWATERING, FLOW BYPASS MEASURES, AND/OR CONSTRUCTION MEANS AND METHODS FOR MANAGING SYSTEM FLOWS AS REQUIRED FOR CONSTRUCTION. BYPASS PUMPING, IF USED, SHALL BE DISCHARGED IN A NON-EROSIVE MANNER. SILT BAGS (DETAIL 2/CD5) OR SIMILAR SHALL BE USED TO MANAGE SEDIMENT-LADEN RUNOFF. SEE SPECIFICATION SECTIONS FOR MORE INFORMATION.
  4. SEE DWG C3 FOR LAYDOWN AREA WITHIN JAYCEE PARK PARKING LOT.

TOTAL DISTURBED AREA: 1.62 AC



REV	ISSUED FOR	DATE	BY
1	CROSSWALK REVISION	11/2022	MPJ
	ESC PERMIT RESUBMITTAL	03/15/22	BRT

PROJECT ENGINEER:	K. BRAY
DESIGNED BY:	C. WILSON
DRAWN BY:	S. KANE
CHECKED BY:	M. SANTOWASSO

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE

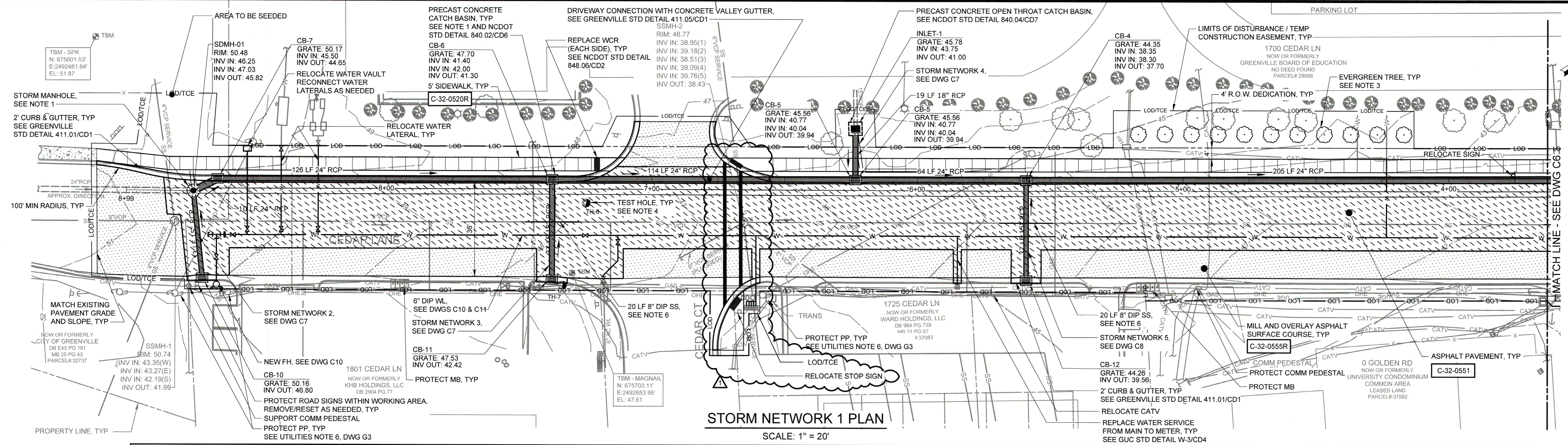
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4011 WESTCHASE BOULEVARD, SUITE 500  
RALEIGH, NORTH CAROLINA 27607  
LICENSE NO.: C-0381

CITY OF GREENVILLE  
GREENVILLE, NORTH CAROLINA  
  
CEDAR LANE DRAINAGE  
IMPROVEMENTS

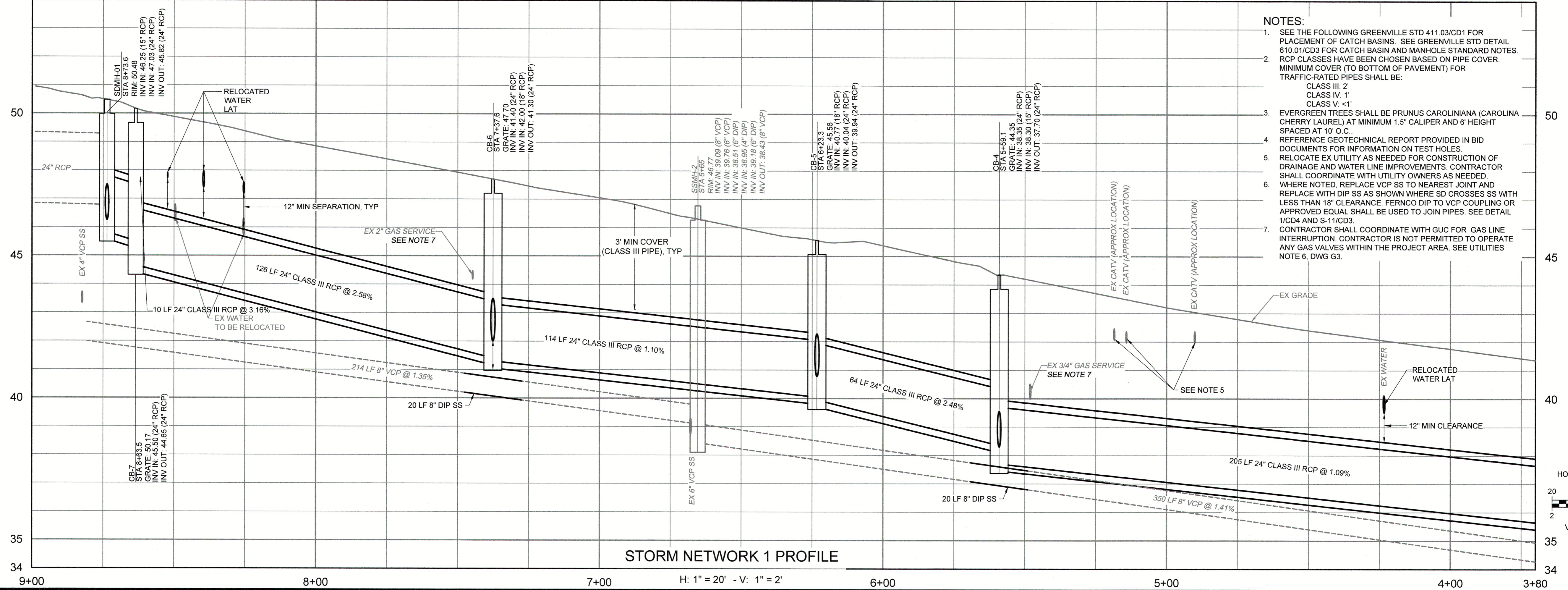
CIVIL  
EROSION AND SEDIMENT CONTROL PLAN

DATE:	JANUARY 2022
HAZEN NO.:	31187-003
CONTRACT NO.:	
DRAWING NUMBER:	C2

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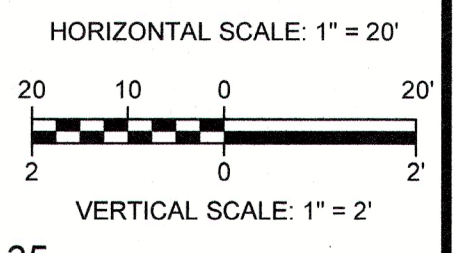


**STORM NETWORK 1 PLAN**  
SCALE: 1" = 20'

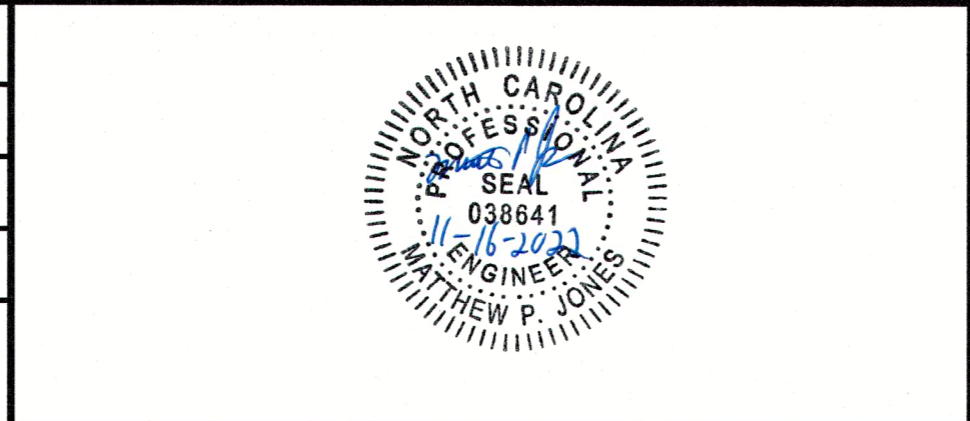


**STORM NETWORK 1 PROFILE**  
H: 1" = 20' - V: 1" = 2'

- NOTES:**
- SEE THE FOLLOWING GREENVILLE STD 411.03/CD1 FOR PLACEMENT OF CATCH BASINS. SEE GREENVILLE STD DETAIL 610.01/CD3 FOR CATCH BASIN AND MANHOLE STANDARD NOTES. RCP CLASSES HAVE BEEN CHOSEN BASED ON PIPE COVER. MINIMUM COVER (TO BOTTOM OF PAVEMENT) FOR TRAFFIC-RATED PIPES SHALL BE:  
CLASS III: 2'  
CLASS IV: 1'  
CLASS V: <1'
  - EVERGREEN TREES SHALL BE PRUNUS CAROLINIANA (CAROLINA CHERRY LAUREL) AT MINIMUM 1.5" CALIPER AND 6' HEIGHT SPACED AT 10' O.C.
  - REFERENCE GEOTECHNICAL REPORT PROVIDED IN BID DOCUMENTS FOR INFORMATION ON TEST HOLES.
  - RELOCATE EX UTILITY AS NEEDED FOR CONSTRUCTION OF DRAINAGE AND WATER LINE IMPROVEMENTS. CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS AS NEEDED.
  - WHERE NOTED, REPLACE VCP SS TO NEAREST JOINT AND REPLACE WITH DIP SS AS SHOWN WHERE SD CROSSES SS WITH LESS THAN 18" CLEARANCE. FERNCO DIP TO VCP COUPLING OR APPROVED EQUAL SHALL BE USED TO JOIN PIPES. SEE DETAIL 1/CD4 AND S-11/CD3.
  - CONTRACTOR SHALL COORDINATE WITH GUC FOR GAS LINE INTERRUPTION. CONTRACTOR IS NOT PERMITTED TO OPERATE ANY GAS VALVES WITHIN THE PROJECT AREA. SEE UTILITIES NOTE 6, DWG G3.



PROJECT ENGINEER:	K. BRAY		
DESIGNED BY:	C. WILSON		
DRAWN BY:	S. KANE		
CHECKED BY:	M. SANTOWASSO		
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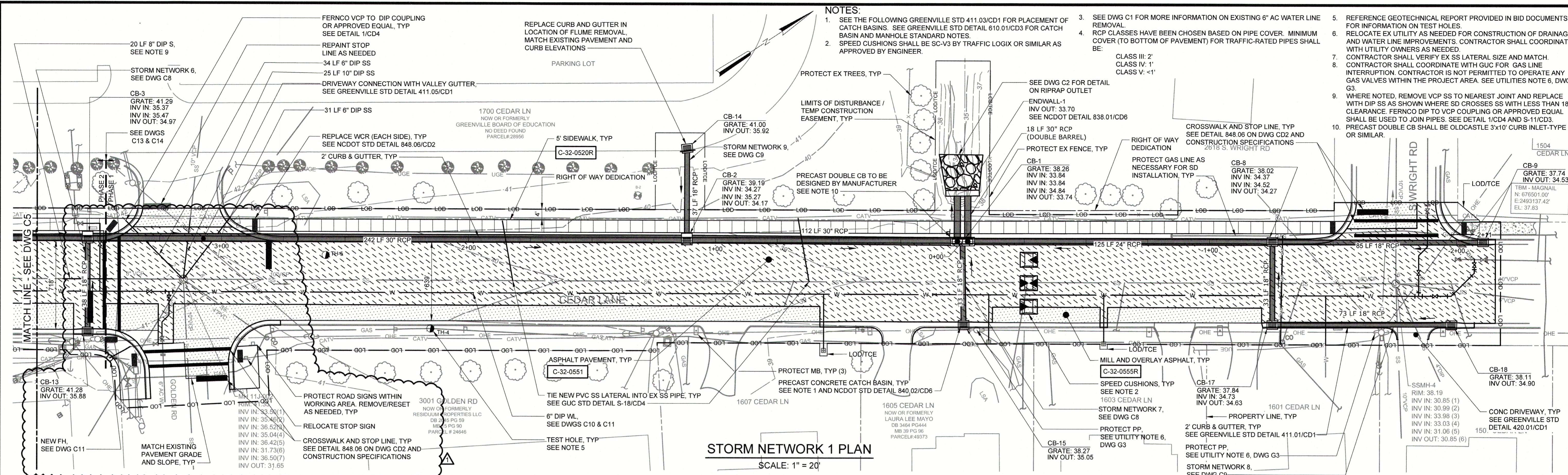
**Hazen**  
HAZEN AND SAWYER  
4011 WESTCHASE BOULEVARD, SUITE 500  
RALEIGH, NORTH CAROLINA 27607  
LICENSE NO.: C-0381

CITY OF GREENVILLE  
GREENVILLE, NORTH CAROLINA  
**CEDAR LANE DRAINAGE IMPROVEMENTS**

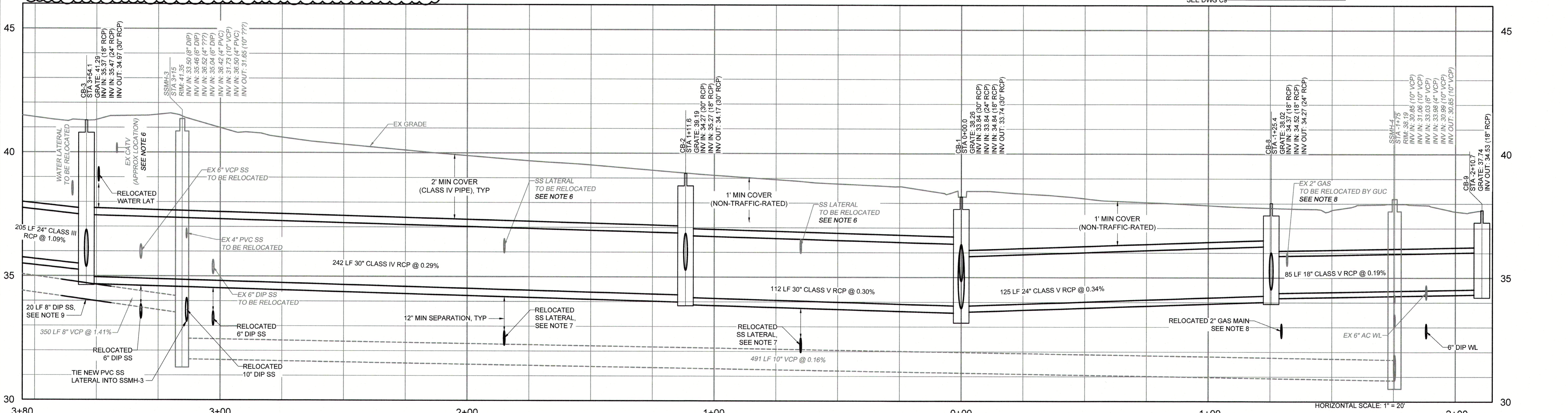
CIVIL  
**STORM IMPROVEMENTS PLAN & PROFILE**

DATE:	JANUARY 2022
HAZEN NO.:	31187-003
CONTRACT NO.:	
DRAWING NUMBER:	C5

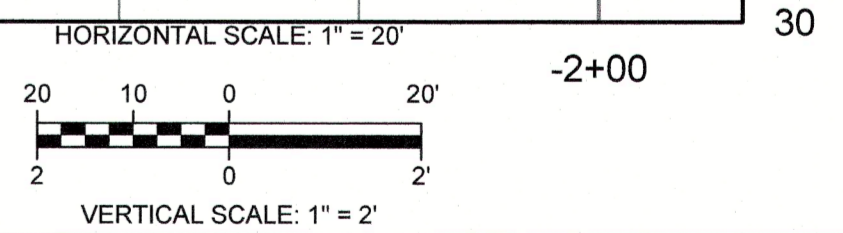
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**STORM NETWORK 1 PLAN**  
SCALE: 1" = 20'



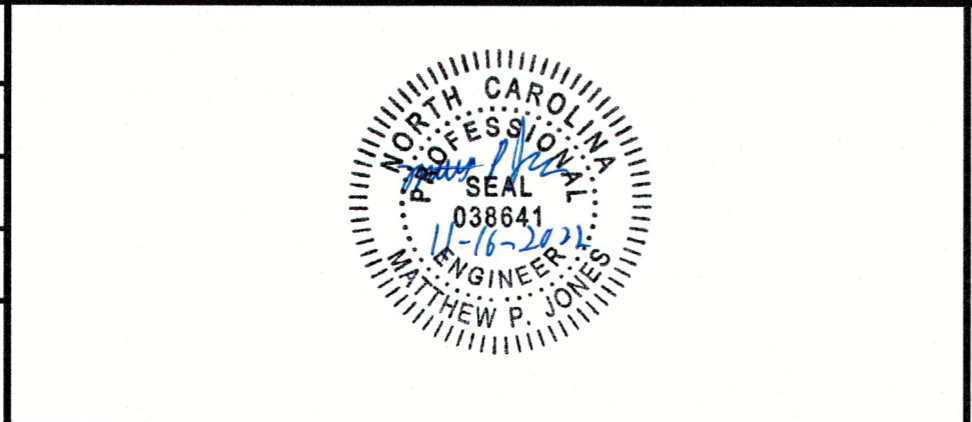
**STORM NETWORK 1 PROFILE**  
H: 1" = 20' - V: 1" = 2'



- NOTES:**
- SEE THE FOLLOWING GREENVILLE STD 411.03/CD1 FOR PLACEMENT OF CATCH BASINS. SEE GREENVILLE STD DETAIL 610.01/CD3 FOR CATCH BASIN AND MANHOLE STANDARD NOTES.
  - SPEED CUSHIONS SHALL BE SC-V3 BY TRAFFIC LOGIX OR SIMILAR AS APPROVED BY ENGINEER.
  - SEE DWG C1 FOR MORE INFORMATION ON EXISTING 6" AC WATER LINE REMOVAL.
  - RCP CLASSES HAVE BEEN CHOSEN BASED ON PIPE COVER. MINIMUM COVER (TO BOTTOM OF PAVEMENT) FOR TRAFFIC-RATED PIPES SHALL BE:  
CLASS III: 2'  
CLASS IV: 1'  
CLASS V: <1'
  - REFERENCE GEOTECHNICAL REPORT PROVIDED IN BID DOCUMENTS FOR INFORMATION ON TEST HOLES.
  - RELOCATE EX UTILITY AS NEEDED FOR CONSTRUCTION OF DRAINAGE AND WATER LINE IMPROVEMENTS. CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS AS NEEDED.
  - CONTRACTOR SHALL VERIFY EX SS LATERAL SIZE AND MATCH. CONTRACTOR SHALL COORDINATE WITH GUC FOR GAS LINE INTERRUPTION. CONTRACTOR IS NOT PERMITTED TO OPERATE ANY GAS VALVES WITHIN THE PROJECT AREA. SEE UTILITIES NOTE 6, DWG G3.
  - WHERE NOTED, REMOVE VCP SS TO NEAREST JOINT AND REPLACE WITH DIP SS AS SHOWN WHERE SD CROSSES SS WITH LESS THAN 18" CLEARANCE. FERNCO DIP TO VCP COUPLING OR APPROVED EQUAL SHALL BE USED TO JOIN PIPES. SEE DETAIL 1/CD4 AND S-11/CD3.
  - PRECAST DOUBLE CB SHALL BE OLDCASTLE 3x10" CURB INLET-TYPE R OR SIMILAR.

△	CROSSWALK REVISION	11/2022	MPJ
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PROJECT ENGINEER:	K. BRAY
DESIGNED BY:	C. WILSON
DRAWN BY:	S. KANE
CHECKED BY:	M. SANTOWASSO
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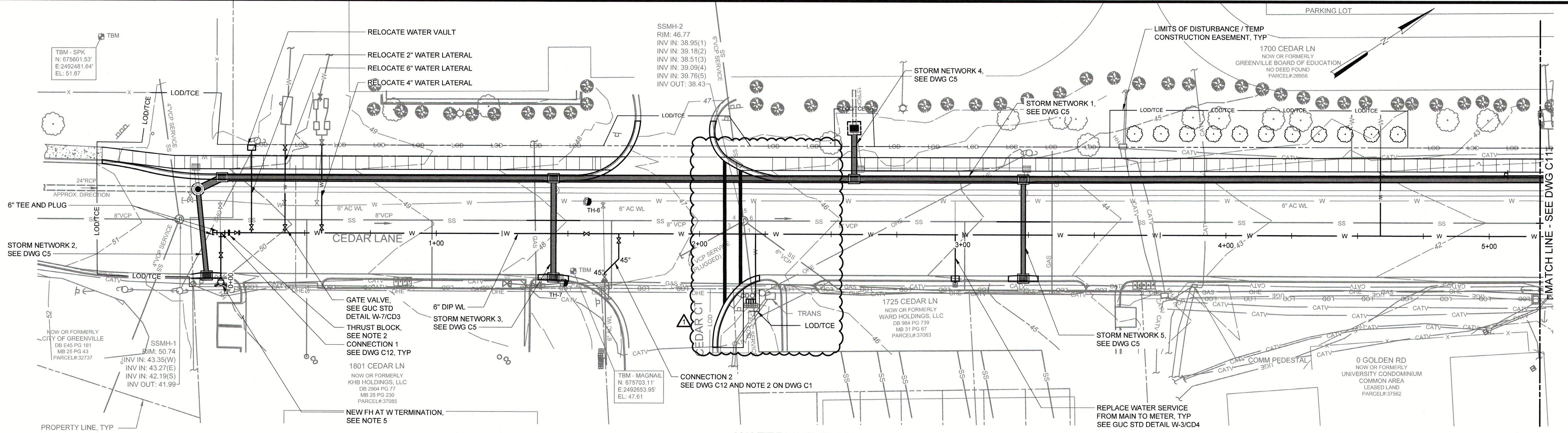
**Hazen**  
HAZEN AND SAWYER  
4011 WESTCHASE BOULEVARD, SUITE 500  
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LICENSE NO.: C-0381

CITY OF GREENVILLE  
GREENVILLE, NORTH CAROLINA  
  
CEDAR LANE DRAINAGE IMPROVEMENTS

CIVIL  
STORM IMPROVEMENTS PLAN & PROFILE

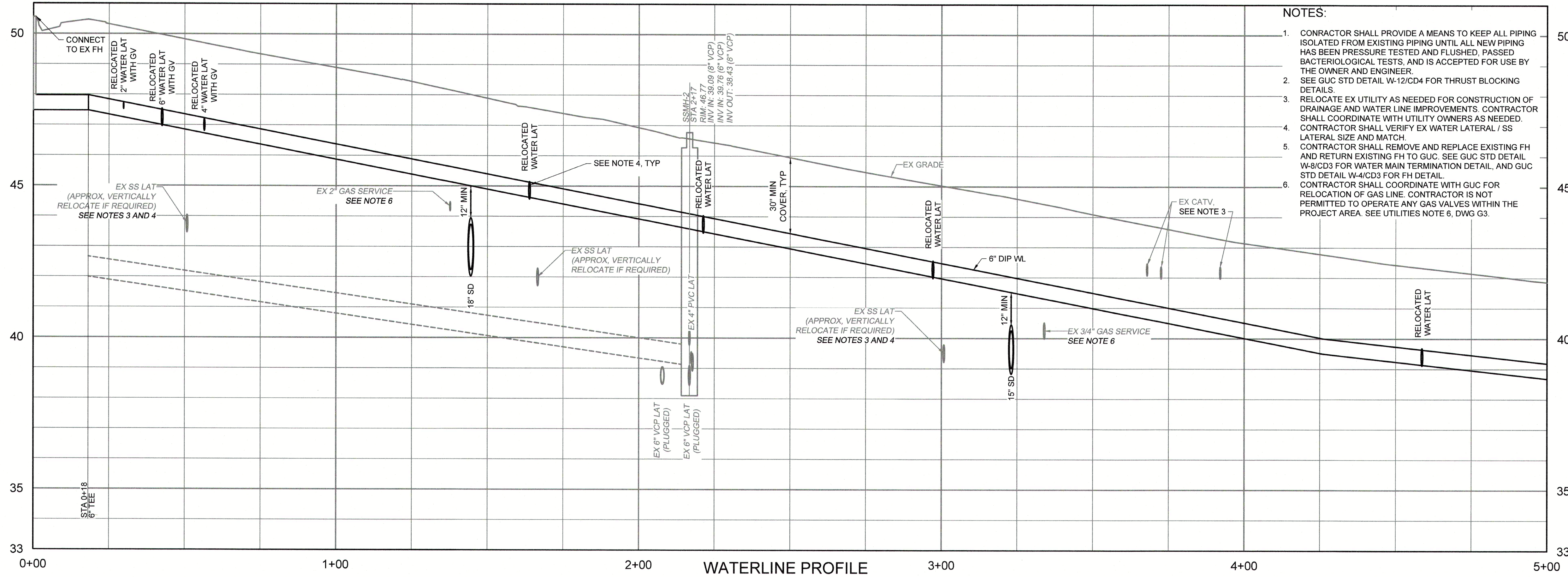
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HAZEN NO.:	31187-003
CONTRACT NO.:	
DRAWING NUMBER:	C6

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 By: SKANE



**WATERLINE PLAN**

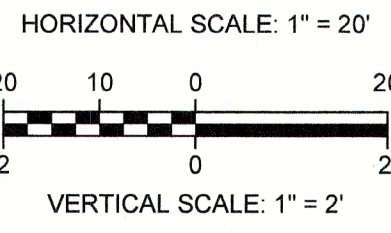
SCALE: 1" = 20'



**WATERLINE PROFILE**

H: 1" = 20' - V: 1" = 2'

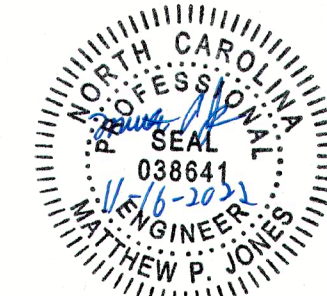
- NOTES:**
- CONTRACTOR SHALL PROVIDE A MEANS TO KEEP ALL PIPING ISOLATED FROM EXISTING PIPING UNTIL ALL NEW PIPING HAS BEEN PRESSURE TESTED AND FLUSHED, PASSED BACTERIOLOGICAL TESTS, AND IS ACCEPTED FOR USE BY THE OWNER AND ENGINEER.
  - SEE GUC STD DETAIL W-12/CD4 FOR THRUST BLOCKING DETAILS.
  - RELOCATE EX UTILITY AS NEEDED FOR CONSTRUCTION OF DRAINAGE AND WATER LINE IMPROVEMENTS. CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS AS NEEDED. CONTRACTOR SHALL VERIFY EX WATER LATERAL / SS LATERAL SIZE AND MATCH.
  - CONTRACTOR SHALL REMOVE AND REPLACE EXISTING FH AND RETURN EXISTING FH TO GUC. SEE GUC STD DETAIL W-8/CD3 FOR WATER MAIN TERMINATION DETAIL, AND GUC STD DETAIL W-4/CD3 FOR FH DETAIL.
  - CONTRACTOR SHALL COORDINATE WITH GUC FOR RELOCATION OF GAS LINE. CONTRACTOR IS NOT PERMITTED TO OPERATE ANY GAS VALVES WITHIN THE PROJECT AREA. SEE UTILITIES NOTE 6, DWG G3.



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 PLOT DATE: 02/02/2022 4:12 PM BY: SKANE

△	CROSSWALK REVISION	11/2022	MPJ
REV	ISSUED FOR	DATE	BY

PROJECT ENGINEER:	K. BRAY
DESIGNED BY:	C. WILSON
DRAWN BY:	S. KANE
CHECKED BY:	M. SANTOWASSO
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	

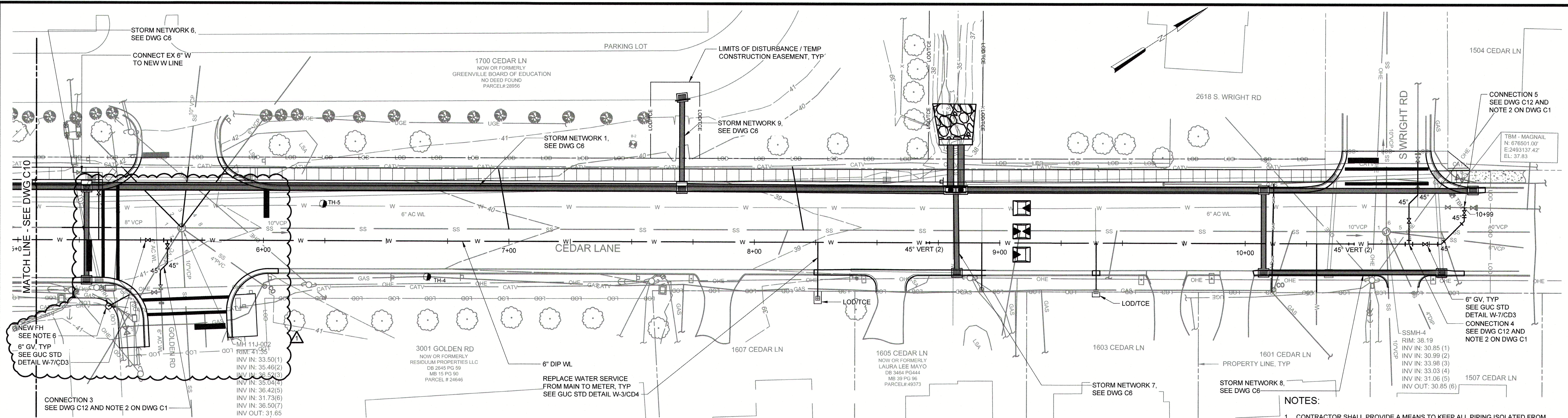


**Hazen**  
 HAZEN AND SAWYER  
 4011 WESTCHASE BOULEVARD, SUITE 500  
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 LICENSE NO.: C-0381

CITY OF GREENVILLE  
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 IMPROVEMENTS

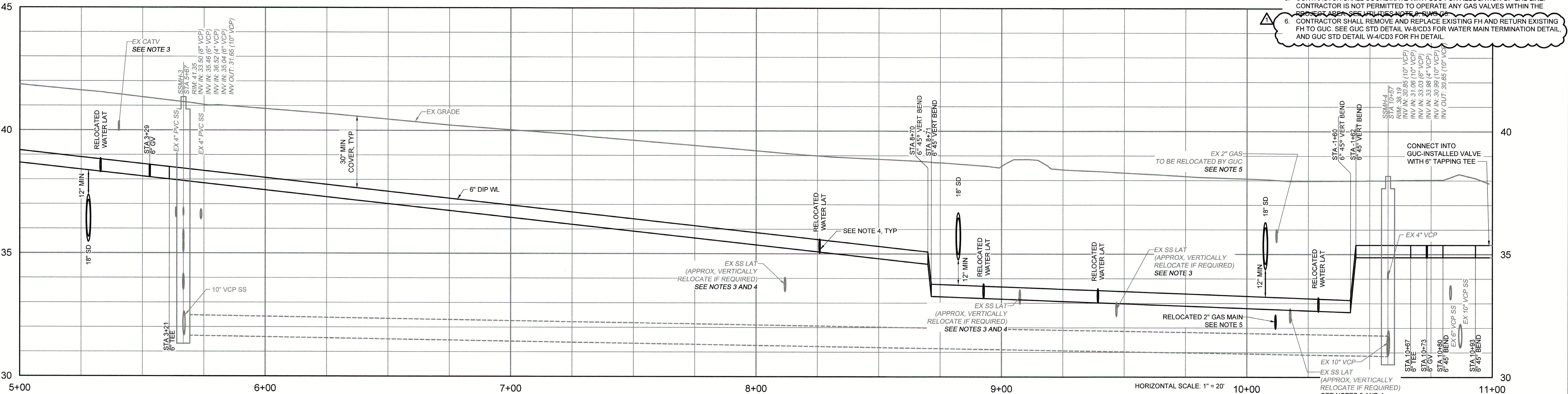
CIVIL  
 WATER IMPROVEMENTS PLAN & PROFILE

DATE:	JANUARY 2022
HAZEN NO.:	31187-003
CONTRACT NO.:	
DRAWING NUMBER:	C10



**WATERLINE PLAN**  
SCALE: 1" = 20'

- NOTES:**
- CONTRACTOR SHALL PROVIDE A MEANS TO KEEP ALL PIPING ISOLATED FROM EXISTING PIPING UNTIL ALL NEW PIPING HAS BEEN PRESSURE TESTED AND FLUSHED, PASSED BACTERIOLOGICAL TESTS, AND IS ACCEPTED FOR USE BY THE OWNER AND ENGINEER.
  - SEE GUC STD DETAIL W-12/CD4 FOR THRUST BLOCKING DETAILS.
  - RELOCATE EX UTILITY AS NEEDED FOR CONSTRUCTION OF DRAINAGE AND WATER LINE IMPROVEMENTS. CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS AS NEEDED.
  - CONTRACTOR SHALL VERIFY EX WATER LATERAL / SS LATERAL SIZE AND MATCH.
  - CONTRACTOR SHALL COORDINATE WITH GUC FOR RELOCATION OF GAS LINE. CONTRACTOR IS NOT PERMITTED TO OPERATE ANY GAS VALVES WITHIN THE PROJECT AREA. SEE UTILITIES NOTE A-DWG C6.
  - CONTRACTOR SHALL REMOVE AND REPLACE EXISTING FH AND RETURN EXISTING FH TO GUC. SEE GUC STD DETAIL W-8/CD3 FOR WATER MAIN TERMINATION DETAIL, AND GUC STD DETAIL W-4/CD3 FOR FH DETAIL.



**WATERLINE PROFILE**  
H: 1" = 20' - V: 1" = 2'

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1	CROSSWALK REVISION	11/2022	MPJ

PROJECT ENGINEER:	K. BRAY
DESIGNED BY:	C. WILSON
DRAWN BY:	S. KANE
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LICENSE NO.: C-0381

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CEDAR LANE DRAINAGE  
IMPROVEMENTS

CIVIL  
WATER IMPROVEMENTS PLAN & PROFILE

DATE:	JANUARY 2022
HAZEN NO.:	31187-003
CONTRACT NO.:	
DRAWING NUMBER:	C11

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