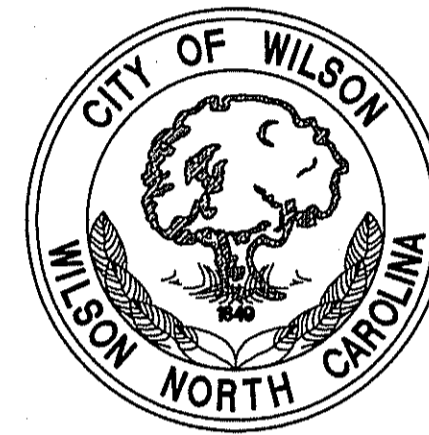


**WHIRLIGIG STATION  
PARKING LOT IMPROVEMENTS**

*for*

**CITY OF WILSON**  
*Wilson County, North Carolina*  
**March 2020**



**MAYOR:**

**CARLTON L. STEVENS**

**COUNCIL MEMBERS:**

**MICHAEL S. BELL  
DEREK D. CREECH  
DONALD I. EVANS  
WILLIAM THOMAS "TOM" FYLE  
JAMES M. JOHNSON, III  
LOGAN T. LILES  
GILLETTIA M. MORGAN**

**CITY MANAGER:**

**GRANT W. GOINGS**

**DEPUTY CITY MANAGER:**

**HARRY TYSON**

**CITY CLERK:**

**TONYA A. WEST**

**PUBLIC WORKS DIRECTOR:**

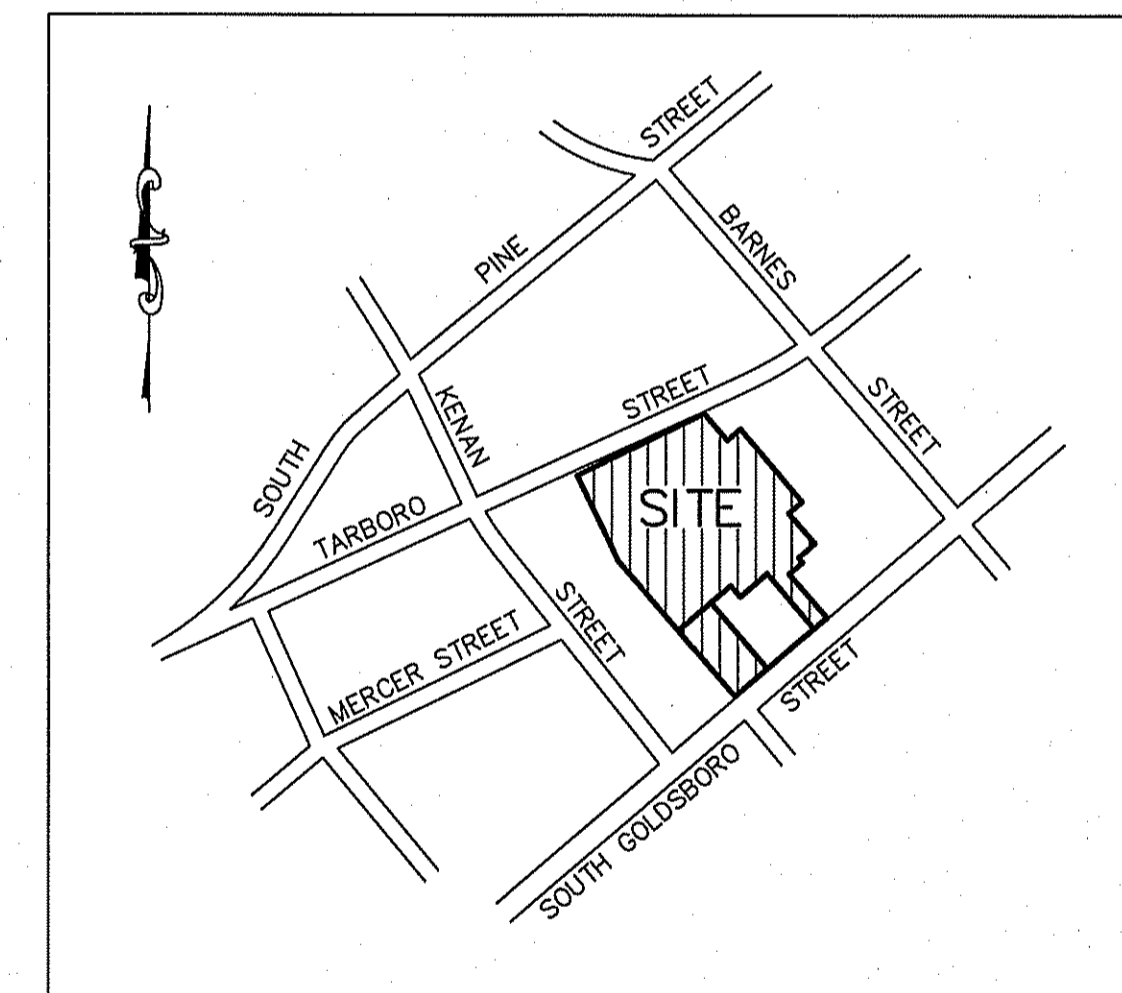
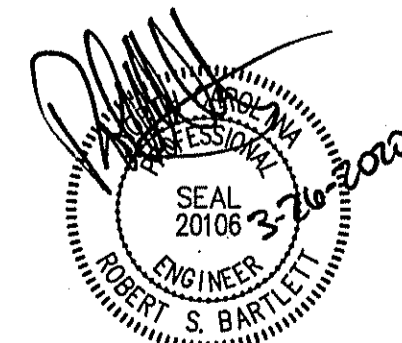
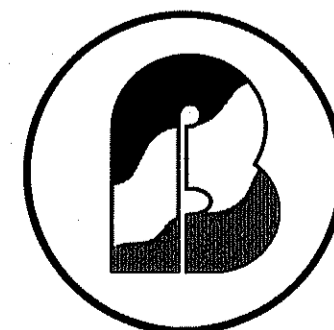
**W. T. (BILL) BASS IV, P.E.**

**CHIEF PLANNING AND DEVELOPMENT  
OFFICER:**

**RODGER LENTZ**

**PREPARED BY:**

**BARTLETT ENGINEERING & SURVEYING, PC**  
1906 NASH STREET NORTH  
WILSON, NORTH CAROLINA 27893-1726



LOCATION MAP  
NO SCALE

**SHEET INDEX**

CV	COVER SHEET
SP1	EXISTING CONDITIONS
SP2	DEMOLITION PLAN
SP3	SITE LAYOUT
SP4	GRADING/DRAINAGE PLAN
SP5	GOLDSBORO ST. STORMWATER PLAN & PROFILE
SP6	PARKING LOT STORMWATER PLAN & PROFILE
SP7	SEDIMENTATION & EROSION CONTROL PLAN
DT1	DETAILS (STANDARD)
DT2	DETAILS (STANDARD)
DT3	DETAILS (SCM)
DT4	DETAILS (SCM)
DT5	DETAILS (SCM)
DT6	DETAILS (S&E)
DT7	DETAILS (S&E NCG01)
DT8	DETAILS (S&E NCG01)



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FAX: (252) 399-0804  
www.bartlett.us.com

COVER SHEET

**WHIRLIGIG STATION**  
PARKING LOT IMPROVEMENTS  
CITY OF WILSON  
WILSON COUNTY

DATE: MAR. 2020  
SURVEY BY:  
DRAWN BY: LR  
CLIENT CODE: WC  
PROJECT: 18-501  
CADFILE: 18501SP1  
SCALE: NTS  
REVISIONS

SHEET

**CV**

**NOTES**

- NO GRID MONUMENT FOUND WITHIN 200'
- AREAS COMPUTED BY COORDINATE CALCULATIONS
- ALL DISTANCES SHOWN ARE HORIZONTAL
- ALL RIGHT-OF-WAYS ARE PUBLIC UNLESS NOTED OTHERWISE
- IRONS ARE TO BE SET AT ALL CORNERS
- NO WETLANDS HAVE BEEN DELINEATED
- THIS PROPERTY IS NOT LOCATED IN A 100-YR. FLOOD HAZARD AREA
- THIS PROPERTY IS NOT LOCATED IN A PROTECTED WATERSHED AREA
- THIS PLAN IS SUBJECT TO ALL EASEMENTS, AGREEMENTS AND RIGHTS-OF-WAY OF RECORD PRIOR TO THE DATE OF THIS PLAN
- THERE ARE NO CEMETERIES VISIBLE ON THIS PROPERTY
- A TITLE REPORT HAS        HAS NOT X BEEN SUPPLIED FOR THIS PROPERTY OR THIS SURVEY.
- REFERENCES: DEED BOOK 2406 PAGE 288 DEED BOOK 1872 PAGE 180  
 DEED BOOK 1328 PAGE 369 PLAT BOOK 1 PAGE 186  
 DEED BOOK 2190 PAGE 499 PLAT BOOK 1 PAGE 192  
 DEED BOOK 1261 PAGE 90 DEED BOOK 2433 PAGE 635  
 DEED BOOK 2522 PAGE 631 PLAT BOOK 38 PAGE 288  
 DEED BOOK 2560 PAGE 365 PLAT BOOK 40 PAGE 187

**SITE DATA**

ZONE: CCMX

MINIMUM BUILDING LINES: FRONT = 0'  
 SIDE = 0'  
 REAR = 0'

EXISTING PARKING SPACES: 154-9'X18'  
 4-9'X18' HC  
 158-TOTAL SPACES

EXISTING USE: PARKING LOT

PROPERTY ADDRESS: 211 TARBORO ST SW (LOT 3)  
 228 GOLDSBORO ST SW

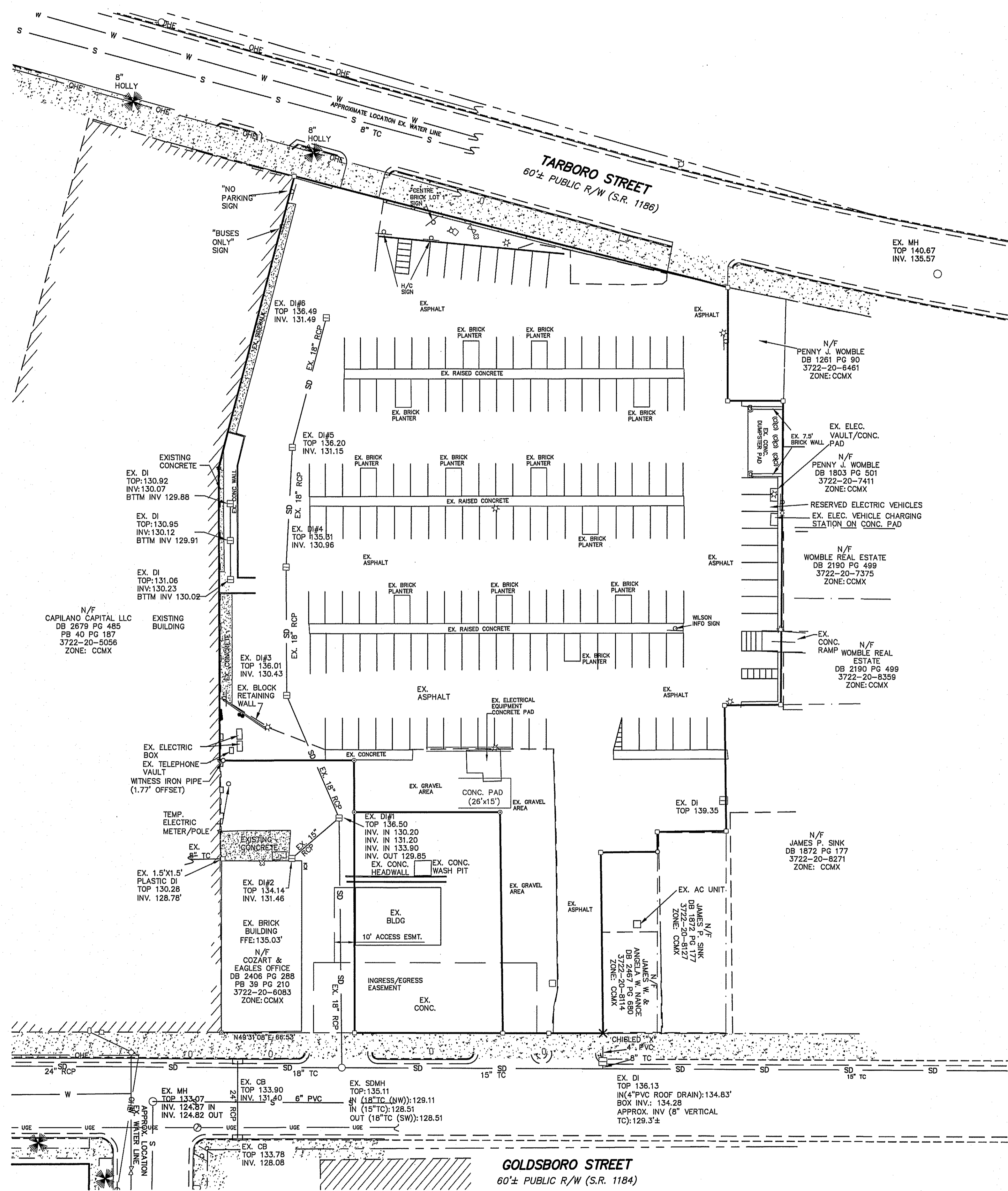
OWNERS: CITY OF WILSON (LOT 3)  
 PO BOX 10  
 WILSON, NC 27894  
 COZART & EAGLES  
 PO BOX 1427  
 WILSON, NC 27894

PIN NO: 3722-20-7111 (LOT 3)  
 3722-20-6083

LINE	BEARING	LENGTH
L3	N28°14'11"W	18.70
L5	N48°29'57"E	27.22
L6	S48°43'11"W	28.00
L7	S48°43'11"W	34.40
L8	S41°18'48"E	10.00
L9	S48°43'11"W	28.30
L10	S40°40'21"E	136.04

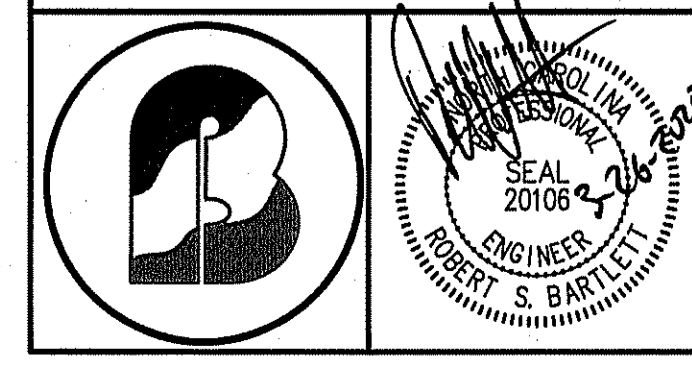
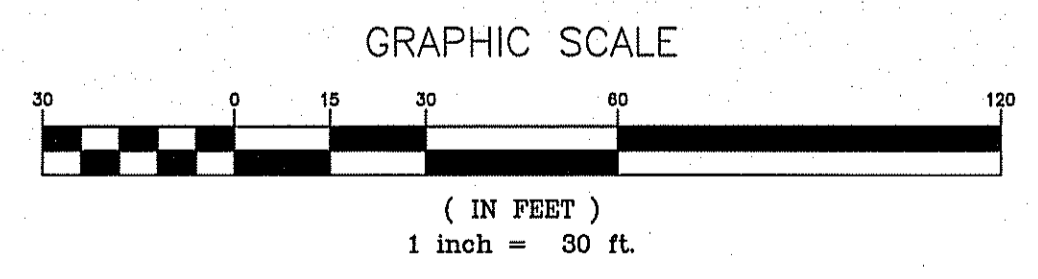
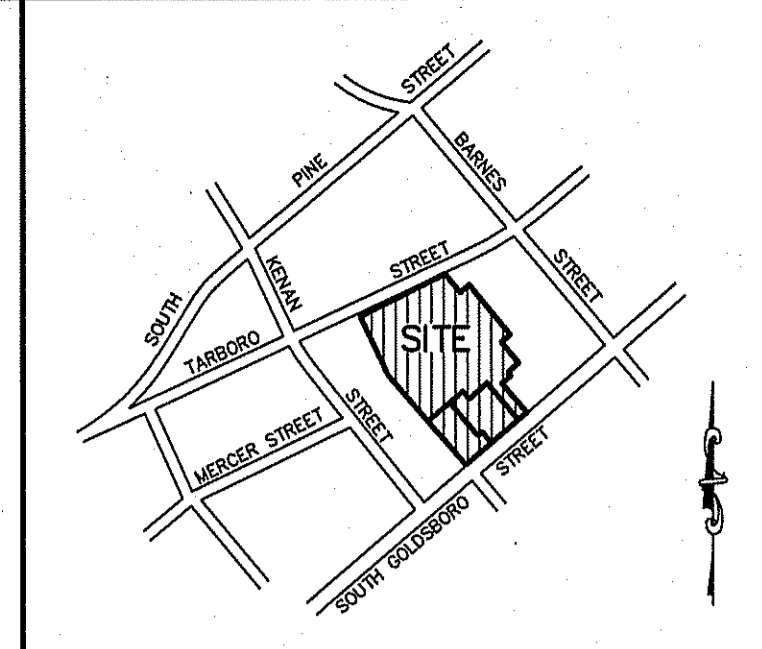
- LEGEND**
- EXISTING IRON PIPE
  - ⊙ EXISTING IRON REBAR
  - COMPUTED POINT
  - ⊕ EXISTING MAGNETIC NAIL
  - ⊖ EXISTING PK NAIL
  - ⊕ EXISTING HYDRANT
  - ⊖ EXISTING WATER METER
  - ⊕ EXISTING WATER VALVE
  - ⊖ EXISTING HOT BOX
  - ⊕ EXISTING WATER SPIGOT
  - ⊖ EXISTING WATER MANHOLE/VAULT
  - ⊕ EXISTING UTILITY POLE
  - ⊖ EXISTING LIGHT POLE
  - ⊕ EXISTING ELECTRIC BOX/TRANSFORMER
  - ⊖ EXISTING GUY WIRE
  - ⊕ EXISTING ELECTRIC CONDUIT
  - ⊖ EXISTING TELEPHONE PEDestal
  - ⊕ EXISTING TELEPHONE MANHOLE
  - ⊖ EXISTING CATV BOX
  - ⊕ EXISTING CATCH BASIN
  - ⊖ EXISTING DROP INLET
  - ⊕ EXISTING DROP INLET (PLASTIC 1'X1')
  - ⊖ EXISTING STORM DRAIN MANHOLE (SDMH)
  - ⊕ EXISTING SANITARY SEWER MANHOLE
  - ⊖ EXISTING SANITARY SEWER CLEANOUT
  - ⊕ FINISHED FLOOR ELEVATION (FFE) SHOT LOCATION
  - ⊖ EXISTING SIGN
  - ⊕ EXISTING GAS METER
  - ⊖ EXISTING ELECTRIC METER

- FIBER OPTICS LINE
- OVERHEAD ELECTRIC LINE
- UNDERGROUND GAS LINE
- STORM DRAIN LINE
- SANITARY SEWER LINE



**EXISTING CONDITIONS:**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL EXISTING JOB CONDITIONS. ANY ADVERSE CONDITIONS AFFECTING WORK SHOWN ON THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER FOR POSSIBLE CLARIFICATION OR RECONCILIATION.



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**EXISTING CONDITIONS**

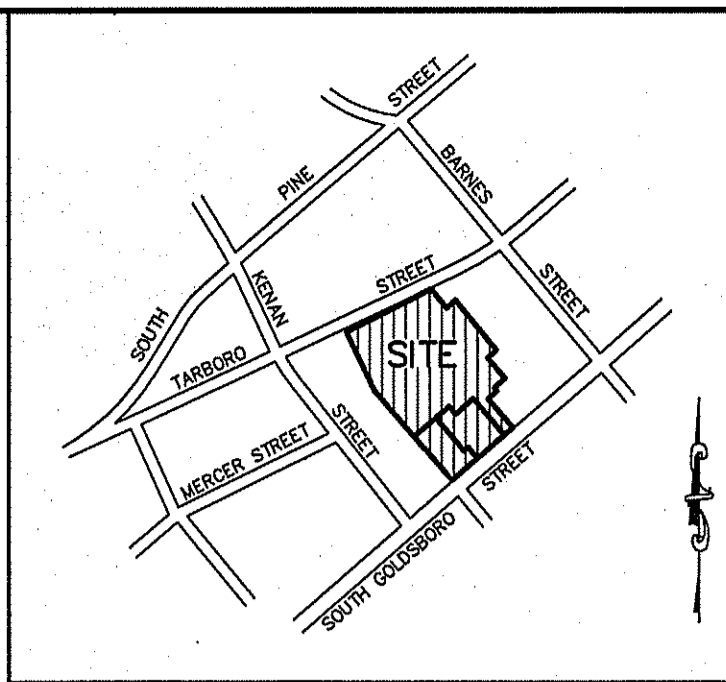
**WHIRLIGIG STATION**  
 PARKING LOT IMPROVEMENTS

DATE: MAR. 2020  
 SCALE(HORIZ): 1" = 30'  
 SCALE(VERT): NA  
 REVISIONS:

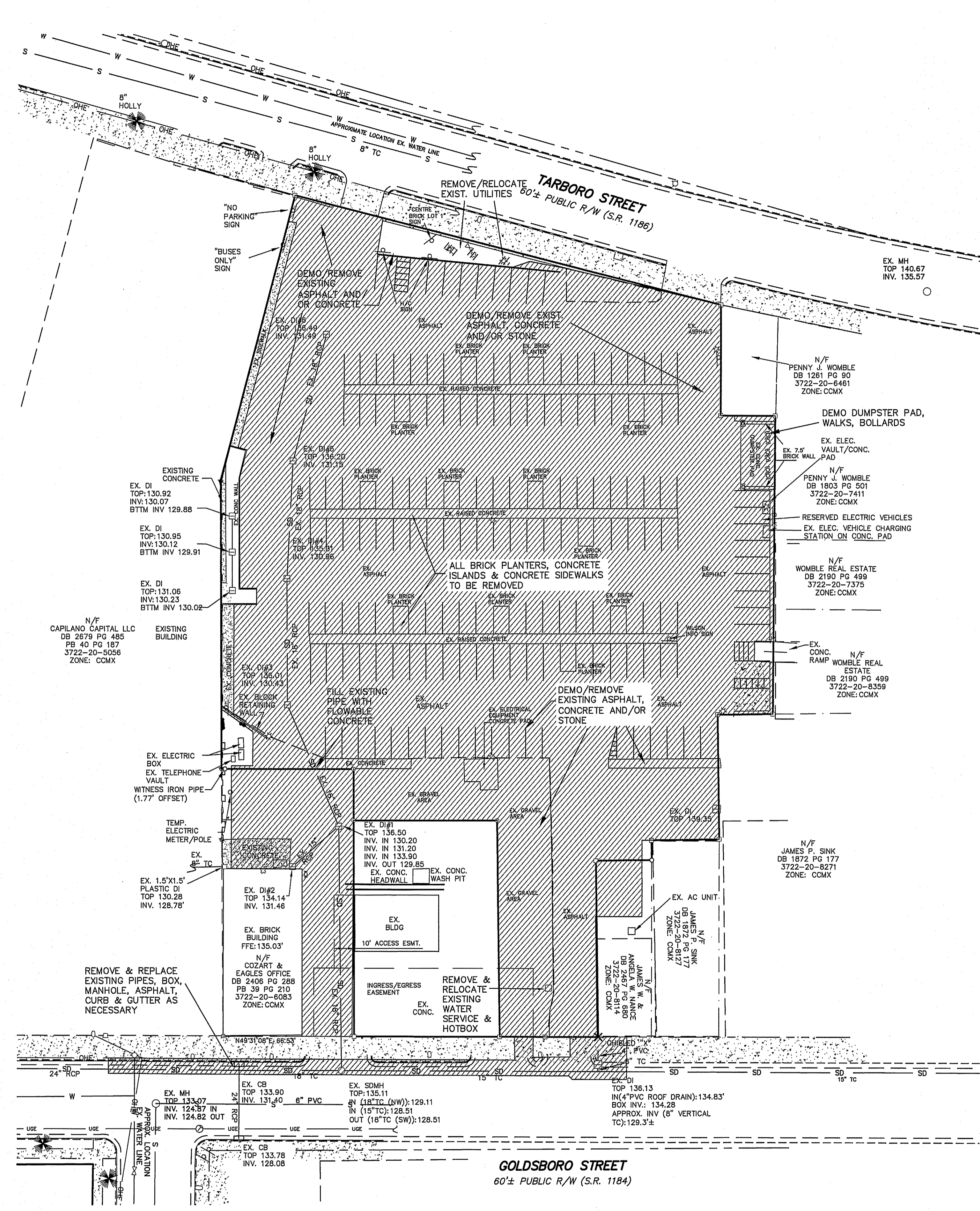
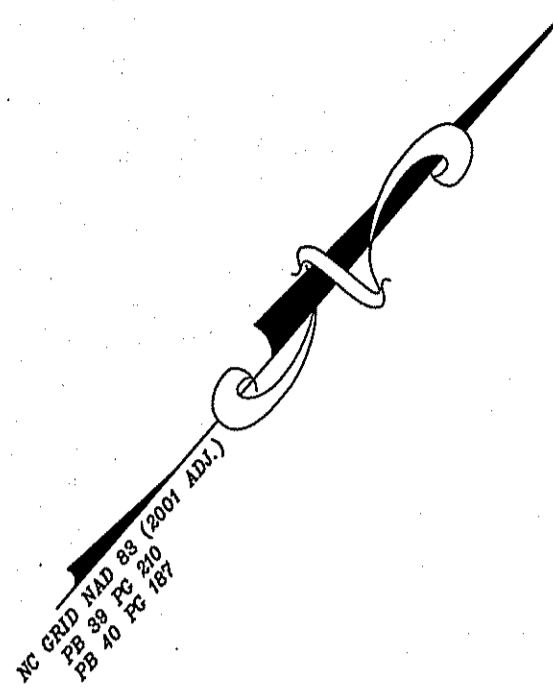
PROJECT: 18-501  
 CLIENT CODE: WC  
 CADFILE: 18501SP3  
 FIELD BOOK:  
 DRAWN BY: LR  
 SURVEY BY: TB/DB

CITY OF WILSON WILSON COUNTY  
 NORTH CAROLINA ZONE: CCMX  
 PIN # SHEET SP1





LOCATION MAP  
NO SCALE



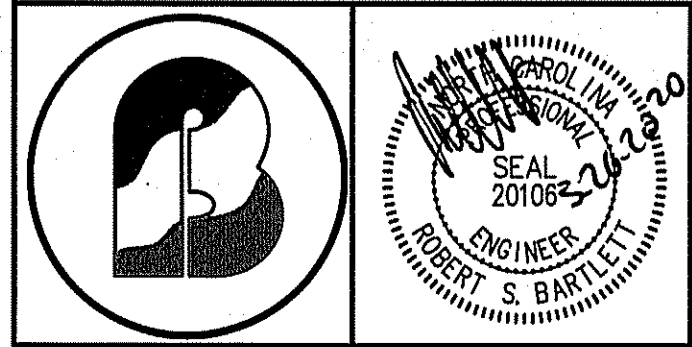
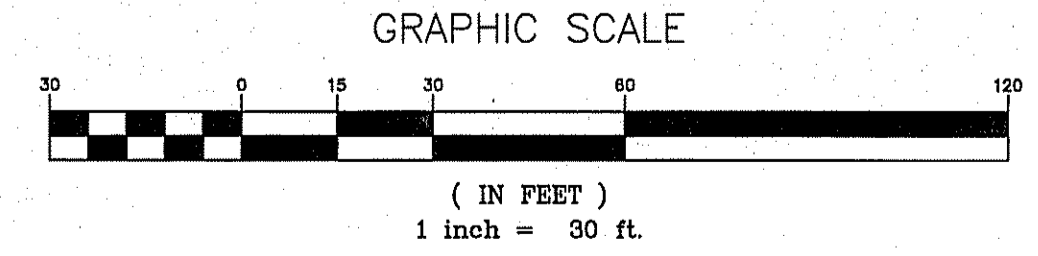
LINE TABLE

LINE	BEARING	LENGTH
L3	N26°41'11"W	18.70
L5	N48°26'57"E	27.62
L6	S48°43'11"W	28.00
L7	S48°43'11"W	34.40
L8	S41°15'49"E	10.00
L9	S48°43'11"W	28.30
L10	S40°40'21"E	136.04

- LEGEND
- EXISTING IRON PIPE
  - EXISTING IRON REBAR
  - COMPLETED POINT
  - EXISTING MAGNETIC NAIL
  - EXISTING HYDRANT
  - EXISTING WATER METER
  - EXISTING WATER VALVE
  - EXISTING HOT BOX
  - EXISTING WATER SPIGOT
  - EXISTING WATER MANHOLE/VAULT
  - EXISTING UTILITY POLE
  - EXISTING LIGHT POLE
  - EXISTING ELECTRIC BOX/TRANSFORMER
  - EXISTING GUY WIRE
  - EXISTING ELECTRIC CONDUIT
  - EXISTING TELEPHONE PEDESTAL
  - EXISTING TELEPHONE MANHOLE
  - EXISTING CATV BOX
  - EXISTING CATCH BASIN
  - EXISTING DROP INLET
  - EXISTING DROP INLET (PLASTIC 1"X1")
  - EXISTING STORM DRAIN MANHOLE (SDMH)
  - EXISTING SANITARY SEWER MANHOLE
  - EXISTING SANITARY SEWER CLEANOUT
  - FINISHED FLOOR ELEVATION (FFE) SHOT LOCATION
  - EXISTING SIGN
  - EXISTING GAS METER
  - FIBER EXISTING UNDERGROUND FIBEROPTICS LINE
  - OHE EXISTING OVERHEAD ELECTRIC LINE
  - GAS EXISTING UNDERGROUND GAS LINE
  - SD EXISTING STORM DRAIN LINE
  - SSW EXISTING SANITARY SEWER LINE

- EXISTING CONDITIONS:  
THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL EXISTING JOB CONDITIONS. ANY ADVERSE CONDITIONS AFFECTING WORK SHOWN ON THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER FOR POSSIBLE CLARIFICATION OR RECONCILIATION.
- CONSTRUCTION SAFETY:  
THESE DRAWINGS DO NOT CONTAIN THE REQUIREMENTS FOR JOB SAFETY. ALL PROVISIONS FOR SAFETY SHALL BE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- GENERAL NOTES:  
WORK WITHIN THE NCDOT RIGHT-OF-WAY SHALL CONFORM TO NCDOT STANDARDS AND SPECIFICATIONS. CALL ONE CALL CENTER AT 1-800-632-4949 FOR LOCATIONS OF EXISTING UTILITIES PRIOR TO EXCAVATION.  
THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL IN OR ADJACENT TO NCDOT OR CITY RIGHT-OF-WAY. ALL METHODS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.
- DEMOLITION NOTES:  
1. UNUSABLE EXCAVATED MATERIALS AND ALL WASTE RESULTING FROM DEMOLITION SHALL BE DISPOSED OF AT AN APPROVED PERMITTED OFF-SITE LOCATION BY CONTRACTOR. CLEAN ASPHALT, CONCRETE AND STONE MAY BE DISPOSED AT CITY OF WILSON RECYCLE YARD ON DOWNING STREET (COORDINATE WITH BILL BASS AT 252-399-2467). CLEAN SOIL MAY BE DISPOSED AT WILSON COUNTY LANDFILL WITH NO TIPPING FEES (COORDINATE WITH ANDY DAVIS 252-399-2823).  
2. CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING OR CONNECTING TO SAID FACILITIES. CONTRACTOR SHALL RAISE OR LOWER TOPS OF EXISTING MANHOLES AS REQUIRED TO MATCH FINISHED GRADES.  
3. COORDINATE WITH THE LOCAL UTILITY PROVIDER FOR REMOVAL/RELOCATION OF EXISTING ELECTRICAL TRANSFORMERS AND/OR LIGHT POLES.  
4. SIDEWALK AND CURB & GUTTER TO BE REMOVED TO NEAREST JOINT OR SAW-CUT IN A MANNER SUCH THAT NO JOINT IS LESS THAN 5 FEET.  
5. ANY EXISTING CURB & GUTTER, SIDEWALK OR ASPHALT DAMAGED DURING CONSTRUCTION WILL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

EXISTING ASPHALT, CONCRETE AND/ STONE TO BE REMOVED/DEMOLISHED



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**DEMOLITION PLAN**

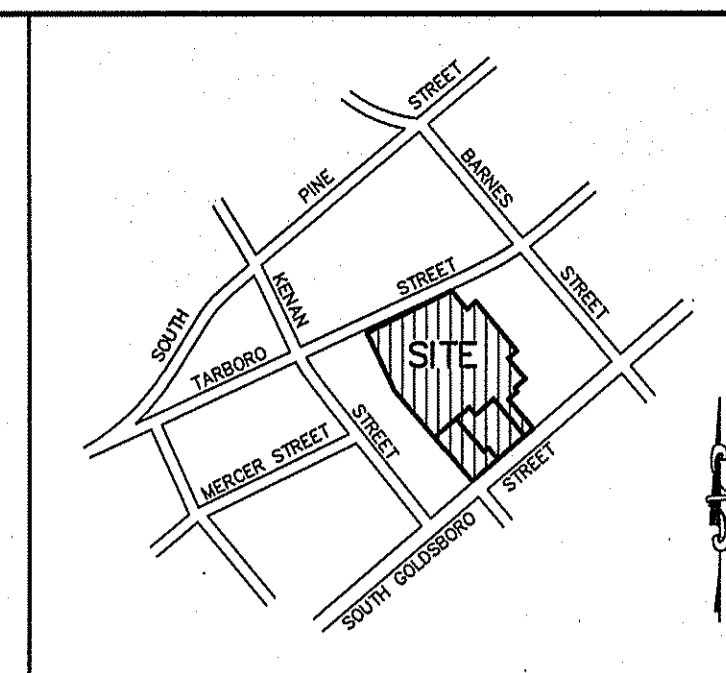
**WHIRLIGIG STATION**  
PARKING LOT IMPROVEMENTS

DATE: MAR. 2020  
SCALE(HORZ): 1" = 30'  
SCALE(VERT): NA  
REVISIONS:

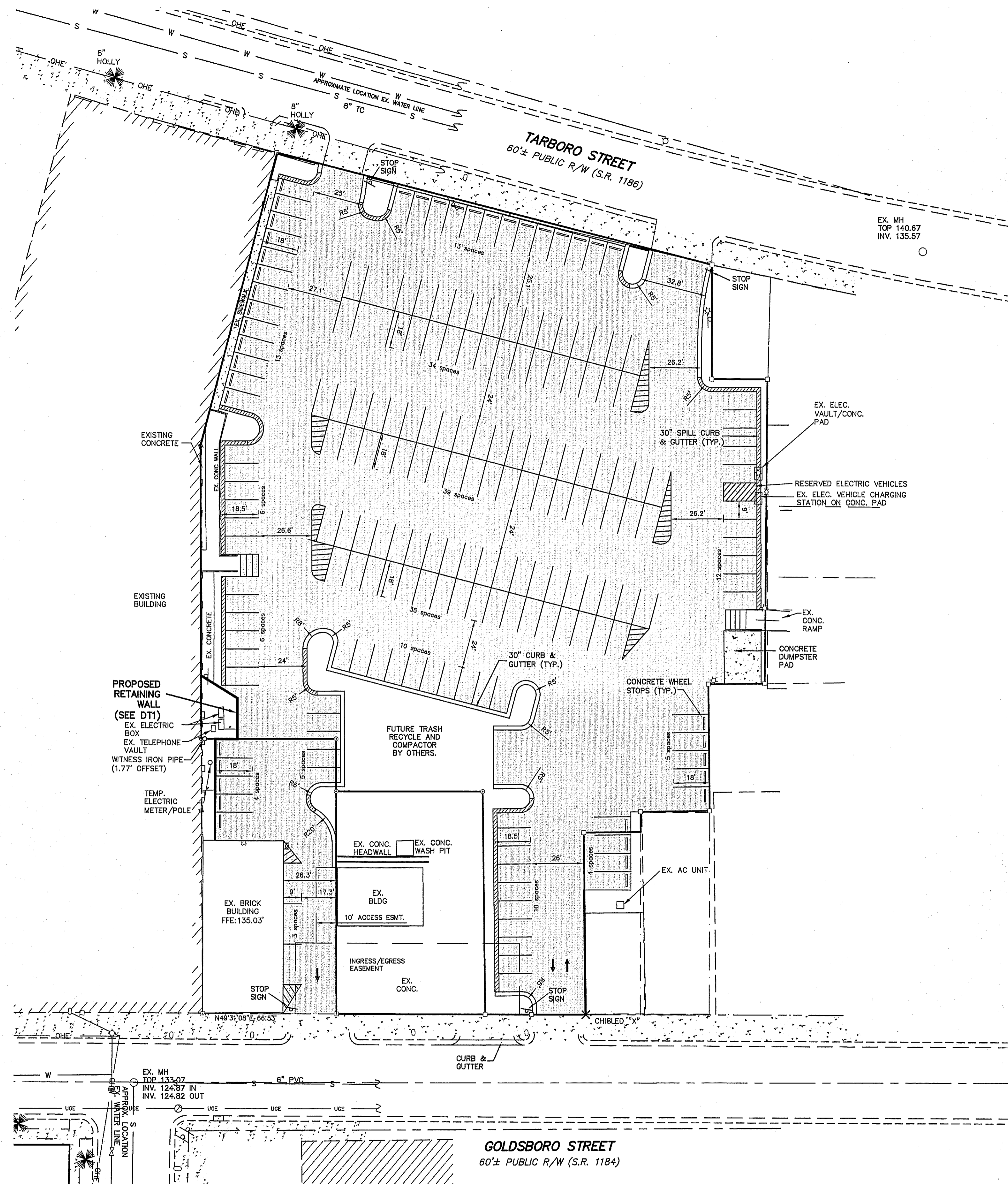
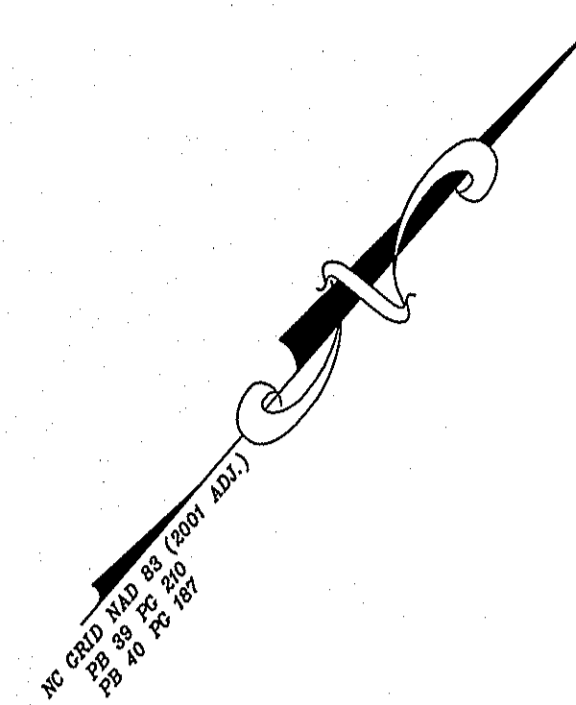
PROJECT: 18-501  
CLIENT CODE: WC  
CADFILE: 18501SP3  
FIELD BOOK:  
DRAWN BY: LR  
SURVEY BY: TB/DB  
CITY OF WILSON  
NORTH CAROLINA  
WILSON COUNTY  
ZONE: CCMX  
PIN #  
SHEET SP2

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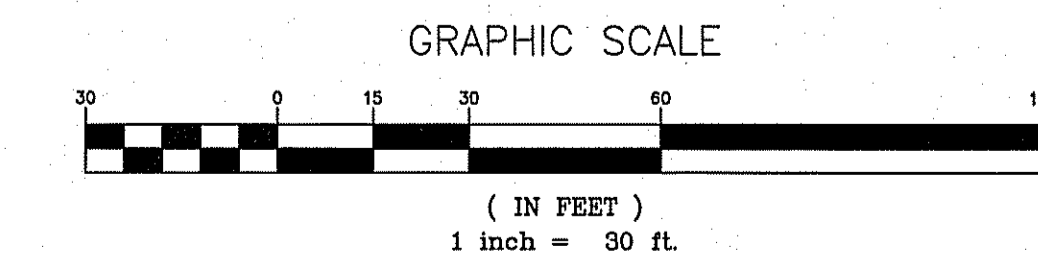
LOCATION MAP  
NO SCALE



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L7	S48°43'11"W	34.40
L8	S41°16'49"E	10.00
L9	S48°43'11"W	28.30
L10	S40°40'21"E	136.04

- LEGEND**
- EXISTING IRON PIPE
  - ⊙ EXISTING IRON REBAR
  - ⊕ COMPUTED POINT
  - ⊗ EXISTING MAGNETIC NAIL
  - ⊘ EXISTING HYDRANT
  - ⊙ EXISTING WATER METER
  - ⊙ EXISTING WATER VALVE
  - ⊙ EXISTING HOT BOX
  - ⊙ EXISTING WATER SPIGOT
  - ⊙ EXISTING WATER MANHOLE/VAULT
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  - ⊙ EXISTING ELECTRIC CONDUIT
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  - ⊙ EXISTING TELEPHONE MANHOLE
  - ⊙ EXISTING CATV BOX
  - ⊙ EXISTING CATCH BASIN
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  - ⊙ EXISTING DROP INLET (PLASTIC 1'x1')
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  - ⊙ EXISTING SANITARY SEWER MANHOLE
  - ⊙ EXISTING SANITARY SEWER CLEANOUT
  - ⊙ FINISHED FLOOR ELEVATION (FFE) SHOT LOCATION
  - ⊙ EXISTING SIGN
  - ⊙ EXISTING GAS METER
  - EXISTING UNDERGROUND FIBEROPTICS LINE
  - EXISTING OVERHEAD ELECTRIC LINE
  - EXISTING UNDERGROUND GAS LINE
  - EXISTING STORM DRAIN LINE
  - EXISTING SANITARY SEWER LINE

- SPILL CURB
- WHEEL STOP
- ASPHALT PAVING (8" CABG, 3" SF9.5B-2 LIFTS)
- CONCRETE



**SITE DATA**

TOTAL AREA: 80,192 SF (1.84 AC)-(LOT 3)  
9,082 SF (0.21 AC)  
2,496 SF (0.06 AC)

TOTAL NO OF LOTS: 2

ZONE: CCMX

MINIMUM BUILDING LINES: FRONT = 0'  
SIDE = 0'  
REAR = 0'

PROPOSED PARKING SPACES: 200-9'x18'

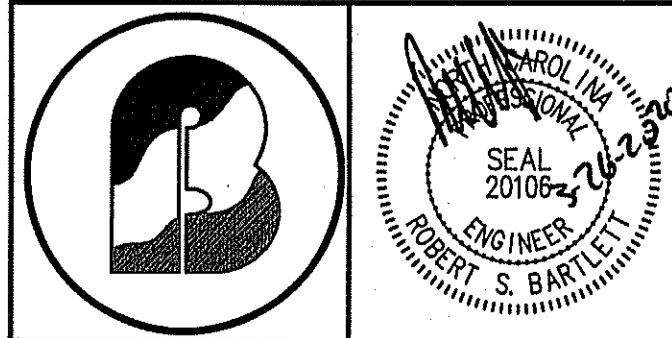
EXISTING USE: PARKING LOT

PROPERTY ADDRESS: 211 TARBORO ST SW (LOT 3)  
228 GOLDSBORO ST SW

OWNERS: CITY OF WILSON (LOT 3)  
PO BOX 10  
WILSON, NC 27894  
COZART & EAGLES  
PO BOX 1427  
WILSON, NC 27894

PIN NO: 3722-20-7111 (LOT 3)  
3722-20-6083  
3722-20-8114

REFERENCE: DEED BOOK 2406 PAGE 288 DEED BOOK 1872 PAGE 180  
DEED BOOK 1326 PAGE 389 PLAT BOOK 1 PAGE 186  
DEED BOOK 2190 PAGE 499 PLAT BOOK 1 PAGE 192  
DEED BOOK 1261 PAGE 90 DEED BOOK 2433 PAGE 635  
DEED BOOK 2522 PAGE 631 PLAT BOOK 36 PAGE 288  
DEED BOOK 2560 PAGE 365 PLAT BOOK 39 PAGE 210  
PLAT BOOK 40 PAGE 187



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**SITE LAYOUT**

**WHIRLIGIG STATION**  
PARKING LOT IMPROVEMENTS

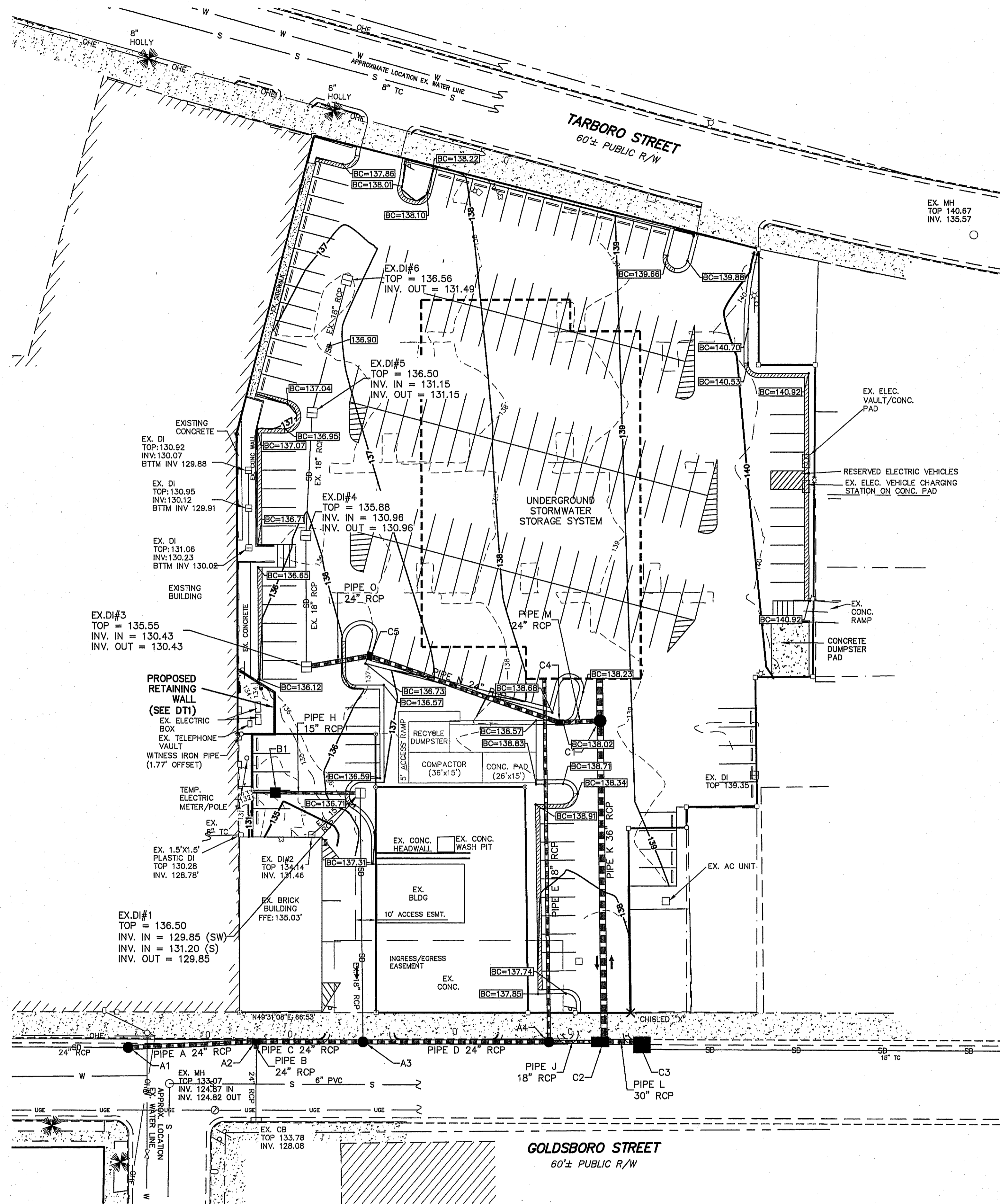
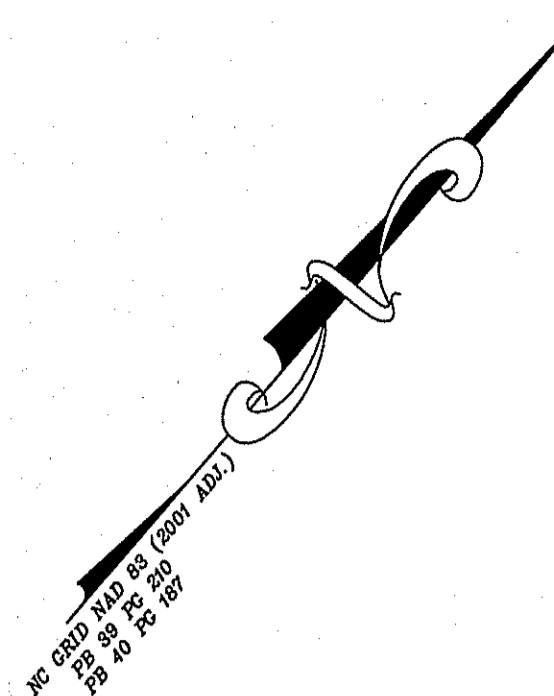
DATE: MAR. 2020  
SCALE(HORIZ): 1" = 30'  
SCALE(VERT): NA  
REVISIONS:

PROJECT: 18-501  
CLIENT CODE: WC  
CADFILE: 18501SP3  
FIELD BOOK:  
DRAWN BY: LR  
SURVEY BY: TB/OB

CITY OF WILSON WILSON COUNTY  
NORTH CAROLINA ZONE: CCMX  
PIN # SHEET SP3

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**LINE TABLE**

LINE	BEARING	LENGTH
L3	N28°41'11\"	18.70
L5	N49°26'57\"	27.62
L6	S48°43'11\"	28.00
L7	S48°43'11\"	34.40
L8	S41°16'49\"	10.00
L9	S48°43'11\"	28.30
L10	S40°40'21\"	136.04

- LEGEND**
- EXISTING IRON PIPE
  - ⊙ EXISTING IRON REBAR
  - ⊕ COMPUTED POINT
  - ⊙ EXISTING MAGNETIC NAIL
  - ⊙ EXISTING HYDRANT
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  - ⊙ EXISTING WATER VALVE
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  - ⊙ EXISTING SANITARY SEWER CLEANOUT
  - ⊙ FINISHED FLOOR ELEVATION (FFE) SHOT LOCATION
  - ⊙ EXISTING SIGN
  - ⊙ EXISTING GAS METER
  - EXISTING UNDERGROUND FIBEROPTICS LINE
  - EXISTING OVERHEAD ELECTRIC LINE
  - EXISTING UNDERGROUND GAS LINE
  - EXISTING STORM DRAIN LINE
  - EXISTING SANITARY SEWER LINE
  - PROPOSED CATCH BASIN
  - PROPOSED STORMWATER DRAINAGE MANHOLE (SDMH)
  - PROPOSED STORMWATER DRAINAGE SPLITTER BOX
  - PROPOSED STORM DRAIN LINE
  - PROPOSED CONTOUR

**SITE NOTES:**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL IN OR ADJACENT TO NCDOT OR TOWN RIGHT-OF-WAY. ALL METHODS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.

CONTRACTOR TO COORDINATE INSTALLATION OF CONDUITS FOR PHONES & LIGHTING.

UNUSABLE EXCAVATED MATERIALS AND ALL WASTE RESULTING FROM CLEARING AND GRUBBING SHALL BE DISPOSED OF AT AN APPROVED PERMITTED OFF-SITE LOCATION BY CONTRACTOR.

CONTRACTOR RESPONSIBLE FOR COMPLYING WITH ALL REQUIREMENTS/ CONDITIONS OF ALL ENCROACHMENTS & PERMITS INCLUDING PROVIDING BONDS/INSURANCE IF REQUIRED.

CONTRACTOR IS RESPONSIBLE FOR COORDINATING REQUIRED INSPECTIONS.

CALL ONE CALL CENTER AT 1-800-632-4949 OR 811 FOR LOCATIONS OF EXISTING UTILITIES THREE WORKING DAYS MINIMUM PRIOR TO EXCAVATION.

**EXCAVATION AND GRADING PLAN NOTES:**

ALL AREAS NOT COVERED BY BUILDING OR PAVING TO BE GRASSED, LANDSCAPED OR LEFT NATURAL AS INDICATED.

CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING OR CONNECTING TO SAID FACILITIES. CONTRACTOR SHALL RAISE OR LOWER TOPS OF EXISTING MANHOLES AS REQUIRED TO MATCH FINISHED GRADES.

BEFORE ANY MACHINE WORK IS DONE, CONTRACTOR SHALL STAKE OUT AND MARK ITEMS ESTABLISHED BY THE SITE PLAN. CONTROL POINTS SHALL BE PRESERVED AT ALL TIMES DURING THE COURSE OF THE PROJECT. LACK OF THE PROPER WORKING POINTS AND GRADE STAKES MAY REQUIRE CESSATION OF OPERATIONS UNTIL SUCH POINTS AND GRADES HAVE BEEN REPLACED TO THE OWNERS SATISFACTION.

**EXISTING CONDITIONS:**

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL EXISTING JOB CONDITIONS. ANY ADVERSE CONDITIONS AFFECTING WORK SHOWN ON THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR POSSIBLE CLARIFICATION OR RECONCILIATION.

**CONSTRUCTION SAFETY:**

THESE DRAWINGS DO NOT CONTAIN THE REQUIREMENTS FOR JOB SAFETY. ALL PROVISIONS FOR SAFETY SHALL BE SOLE RESPONSIBILITY OF THE CONTRACTOR.

**STRUCTURAL FILL:**

SEE CITY OF WILSON SPECIFICATIONS FOR STRUCTURAL FILL INFORMATION.

**OFFSITE BORROW / TRENCH BORROW:**

OFFSITE BORROW MATERIAL PLACED ON SITE SHOULD BE LOW PLASTICITY (PI LESS THAN 25 AND LL LESS THAN 50) AND SHALL BE FREE OF ORGANIC MATERIAL OR DEBRIS. PLACE FILL IN 8" TO 10" LOOSE LIFTS AND COMPACT TO 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. ASTM D698. THE MOISTURE CONTENT OF THE SOIL SHOULD BE MAINTAINED WITHIN ± 3 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT DETERMINED BY THE SAME TEST. OFF-SITE BORROW MATERIAL TO BE OBTAINED FROM A PERMITTED SOURCE.

**ADA AND LEGAL DISCLAIMER:**

THIS DOCUMENT IS NOT REPRESENTED TO COMPLY WITH ALL REQUIREMENTS CONTAINED IN THE ADA OR OTHER LAWS. ENGINEERS ARE NOT LICENSED TO INTERPRET LAWS OR GIVE ADVICE CONCERNING LAWS. THE OWNER SHOULD HAVE THIS DOCUMENT REVIEWED BY HIS ATTORNEY TO DETERMINE LEGAL COMPLIANCE.

**GAS NOTE:**

THERE SHALL BE A MINIMUM OF 3 FT OF SUITABLE FILL BETWEEN THE EXISTING MAIN AND ANY ROCK, CONCRETE OR ASPHALT INSTALLED.

**STORM STRUCTURE TABLE**

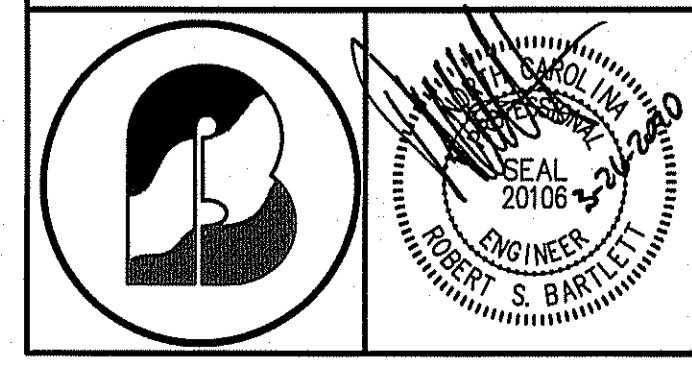
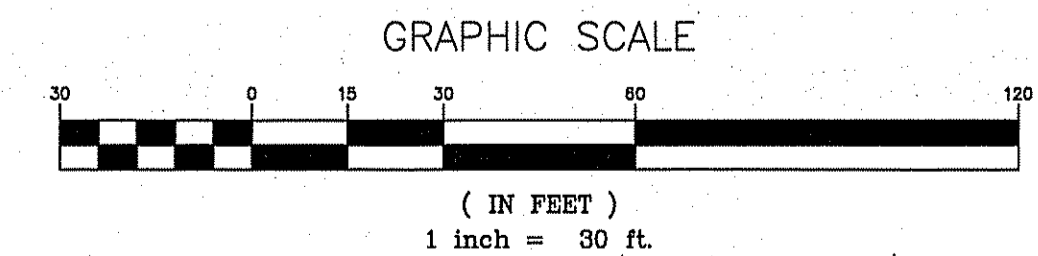
STRUCTURE	DESCRIPTION	TOP ELEV.	INVERT IN	INVERT OUT
EXD#6	EX DROP INLET	136.56		131.49
EXD#5	EX DROP INLET	136.50	131.15	131.15
EXD#4	EX DROP INLET	136.88	130.96	130.96
EXD#3	EX DROP INLET	135.55	130.43	130.43
EXD#1	EX DROP INLET	136.50	131.2 (S)	129.85
C5	PROP. CATCH BASIN	136.72	130.33	130.33
C4	PROP. CATCH BASIN	138.44	130.04	130.04
C3	PROP. OVERSIZED DOUBLE CATCH BASIN	136.63	129.71	129.71
C2	PROP. SPLITTER BOX	135.72	129.57	129.57
C1	PROP. MANHOLE	138.48	129.98	129.10
B1	PROP. DROP INLET	135.10	129.97	129.97
A4	PROP. MANHOLE	136.00	125.23	124.99
A3	PROP. MANHOLE	135.10	129.11	124.08
A2	PROP. CATCH BASIN	133.90	125.79	123.56
A1	PROP. MANHOLE	132.70	122.94	122.94

Note: Top elevations for catch basins are at top of curb  
 Top of existing drop inlets D#3 to D#6 to be adjusted to elevations shown above.  
 Site verify existing pipe inverts prior to box fabrication  
 Invert in elevation for drop inlet B1 is for retaining wall drain pipe

**PIPE TABLE**

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE	SIZE	LENGTH	SLOPE	MATERIAL	UPPER INVERT	LOWER INVERT
EXD#3	C5	O	24	31.0	0.0030	RCP (O-Ring)	130.43	130.33
C5	C4	N	24	98.0	0.0030	RCP (O-Ring)	130.33	130.04
C4	C1	M	24	19.8	0.0030	RCP (O-Ring)	130.04	129.98
C3	C2	L	30	16.0	0.0085	RCP (O-Ring)	129.71	129.57
C2	C1	K	36	156.8	0.0030	RCP (O-Ring)	129.57	129.10
C2	A4	J	18	23.0	0.0100	RCP	129.57	129.34
C1	UGS	I	36	20.9	0.0050	RCP (O-Ring)	129.10	129.00
B1	EXD#1	H	15	41.0	0.0030	RCP (O-Ring)	129.97	129.85
UGS	A4	E	18	177.0	0.0100	RCP (O-Ring)	127.00	125.23
A4	A3	D	24	91.0	0.0100	RCP	124.99	124.08
A3	A2	C	24	62.0	0.0100	RCP	124.08	123.56
EX CB	A2	B	24	3.2	0.0500	RCP	125.98	125.79
A2	A1	A	24	62.0	0.0100	RCP	123.56	122.94

Slope for Pipe B will follow existing pipe where it is connecting going to A2  
 O-Ring gasketed pipe shall meet ASTM C443/AASHTO M198 - Joints for Concrete Pipe and Manholes using Rubber Gaskets



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**GRADING/  
 DRAINAGE PLAN**

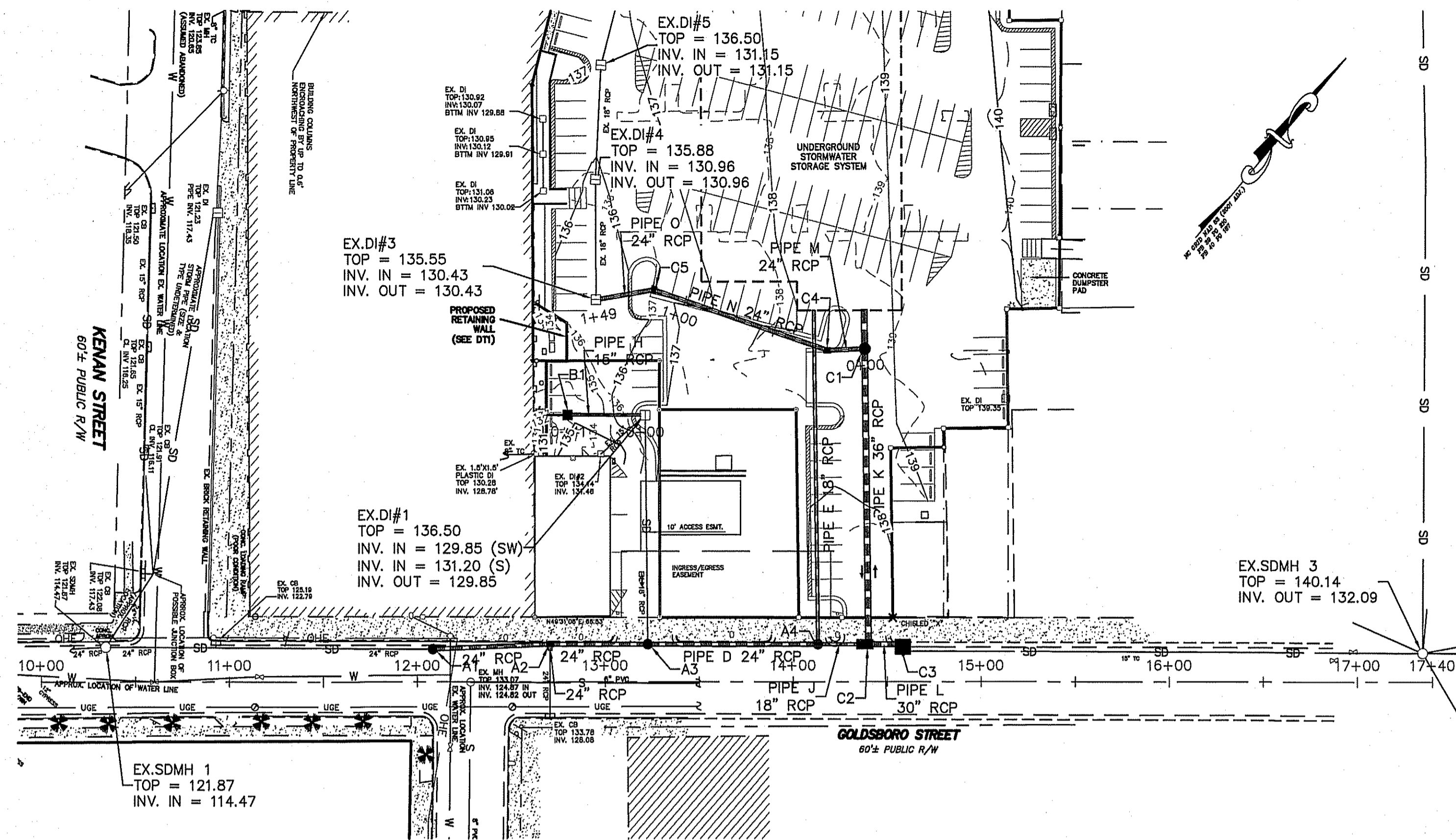
**WHIRLIGIG STATION  
 PARKING LOT IMPROVEMENTS**

DATE: MAR. 2020  
 SCALE(HORIZ): 1" = 30'  
 SCALE(VERT): NA  
 REVISIONS:

PROJECT: 18-501  
 CLIENT CODE: WC  
 CADFILE: 18501SP3  
 FIELD BOOK:  
 DRAWN BY: LR  
 SURVEY BY: TB/DB

CITY OF WILSON WILSON COUNTY  
 NORTH CAROLINA ZONE: CCMX  
 PIN # SHEET SP4





UTILITIES SHOWN ON PLANS ARE LOCATED APPROXIMATELY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING UTILITIES AND SERVICES WHETHER SHOWN ON PLANS OR NOT.

CALL ONE CALL CENTER AT 1-800-632-4949 FOR LOCATIONS OF EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION

CONTRACTOR TO BE RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF THESE FACILITIES IF DAMAGED.

WATER, SEWER, AND STORM DRAINAGE LINES SHOULD BE CONSTRUCTED TO THE FOLLOWING SPECIFICATIONS:

- MIN. 10' LATERAL SEPARATION BETWEEN WATER/SEWER LINES.
- MIN. 24" VERT. SEPARATION BETWEEN WATER/SEWER, IF WATER MUST BE PLACED BELOW SEWER, DUCTILE IRON IS REQUIRED ON BOTH LINES. DUCTILE IRON SHOULD EXTEND 10' PAST INTERSECTION ON WATER LINE AND TO THE NEXT MANHOLE ON SEWER LINE PER CITY OF WILSON SPECIFICATIONS.
- WATER/SEWER CROSSINGS SHALL BE ARRANGED SO THAT SEWER JOINTS ARE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.
- MIN. 24" VERT. SEPARATION BETWEEN STORM DRAIN AND SAN. SEWER OR DUCTILE IRON IS REQUIRED.

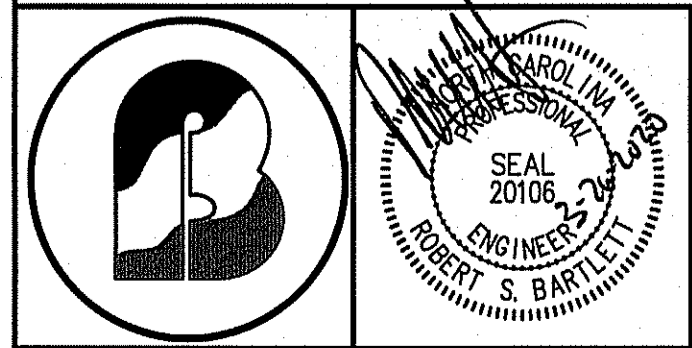
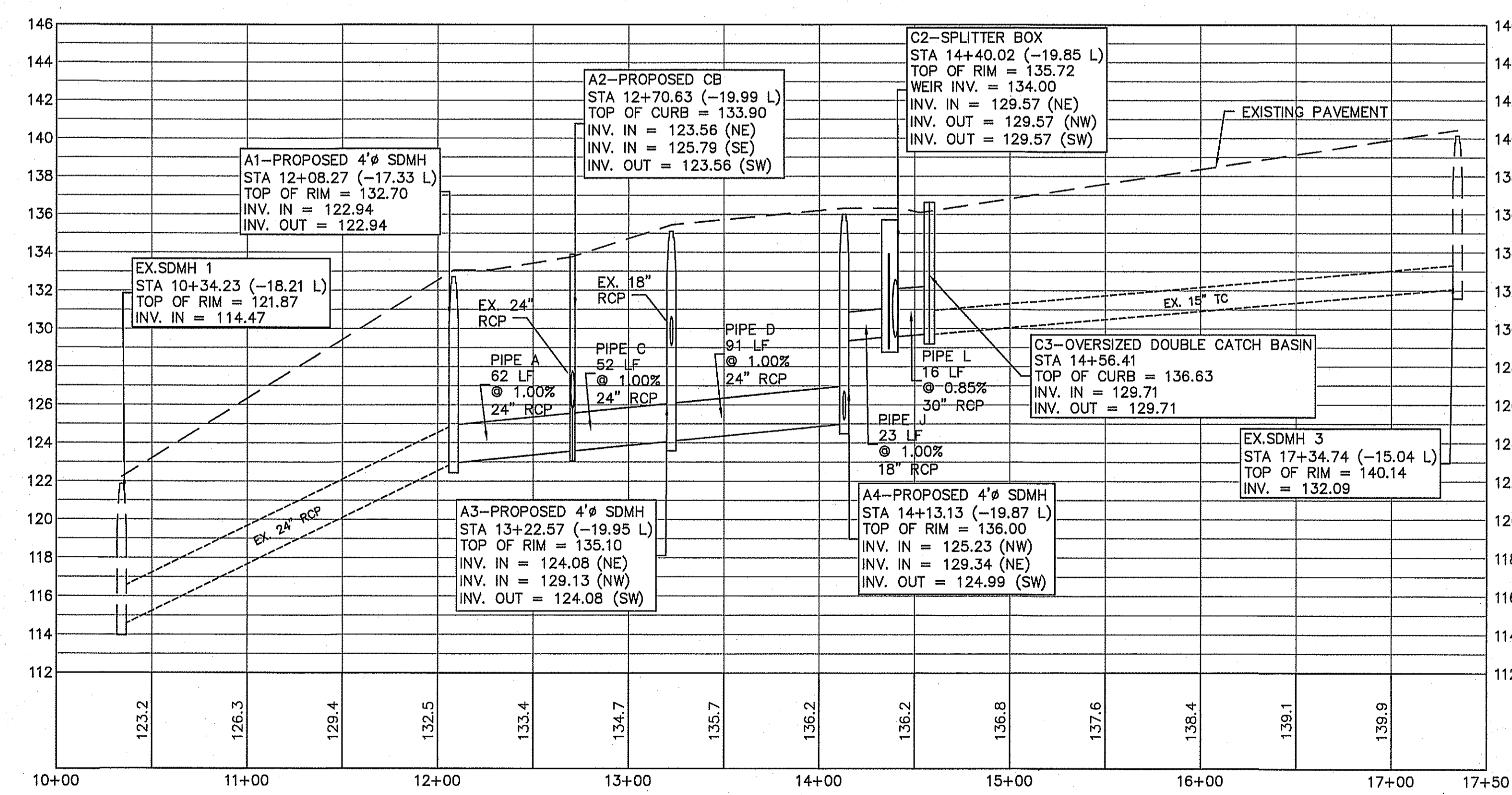
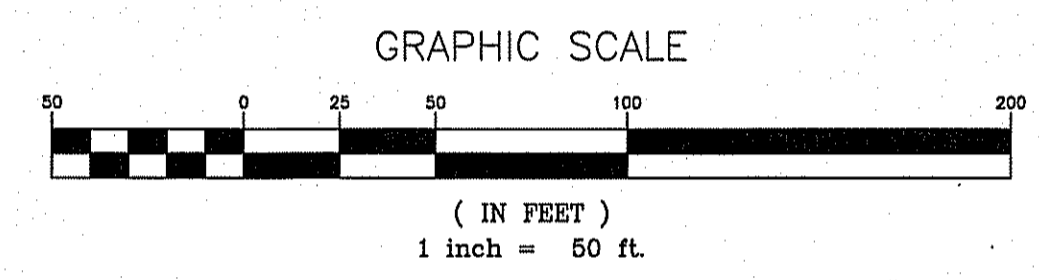
CONTRACTOR RESPONSIBLE FOR COMPLYING WITH ALL REQUIREMENTS/CONDITIONS OF ALL ENCROACHMENTS & PERMITS INCLUDING PROVIDING BONDS/INSURANCE IF REQUIRED.

CONTRACTOR IS RESPONSIBLE FOR COORDINATING REQUIRED INSPECTIONS BY NCDOT AND/OR WITH MUNICIPALITY.

LOCATION, QUANTITY AND PLACEMENT OF DRAINAGE PIPES AND EROSION CONTROL DEVICES MAY VARY TO BETTER CONFORM TO FIELD CONDITIONS.

- LEGEND**
- EXISTING CATCH BASIN
  - EXISTING DROP INLET
  - EXISTING DROP INLET (PLASTIC 1'X1')
  - EXISTING STORM DRAIN MANHOLE (SDMH)
  - PROPOSED CATCH BASIN
  - PROPOSED STORMWATER DRAINAGE MANHOLE (SDMH)
  - PROPOSED STORMWATER DRAINAGE SPLITTER BOX
  - PROPOSED STORM DRAIN LINE
  - 100 — PROPOSED CONTOUR
  - EXISTING STORM DRAIN LINE

**GOLDSBORO ST. - L1 -**  
 (Sta. 14+00 to Sta. 28+23)  
**PLAN VIEW**



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**GOLDSBORO STREET**  
**STORMWATER**  
**PLAN & PROFILE**

**WHIRLIGIG STATION**  
**PARKING LOT IMPROVEMENTS**

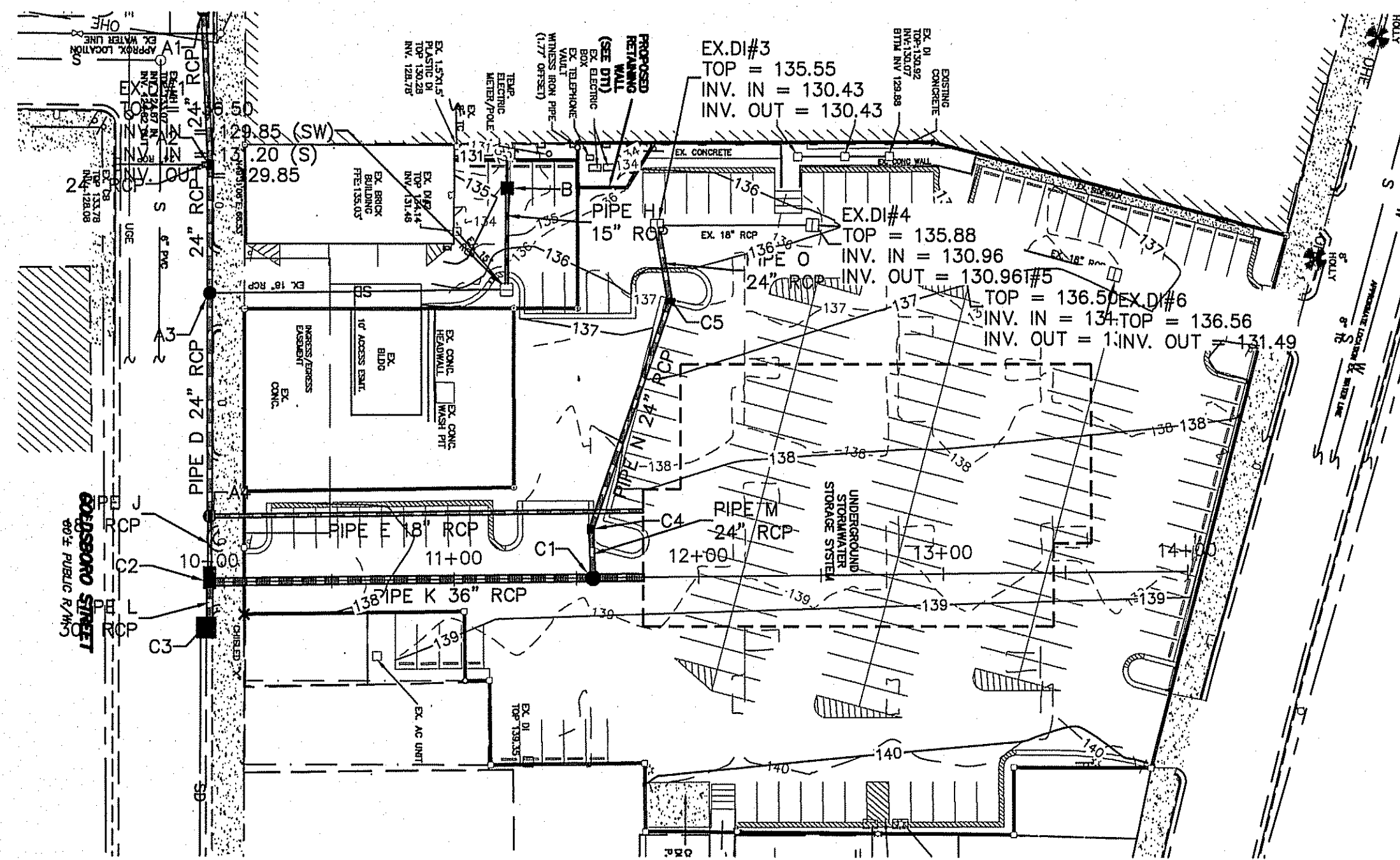
DATE: JAN. 2020  
 SCALE(HORIZ): 1" = 50'  
 SCALE(VERT): 1" = 5'  
 REVISIONS:

PROJECT: 18-501  
 CLIENT CODE: WC  
 CADFILE: 18501SP3  
 FIELD BOOK:  
 DRAWN BY: LR  
 SURVEY BY: TB/DB

CITY OF WILSON WILSON COUNTY  
 NORTH CAROLINA ZONE: CCMX  
 PIN # SHEET SP5

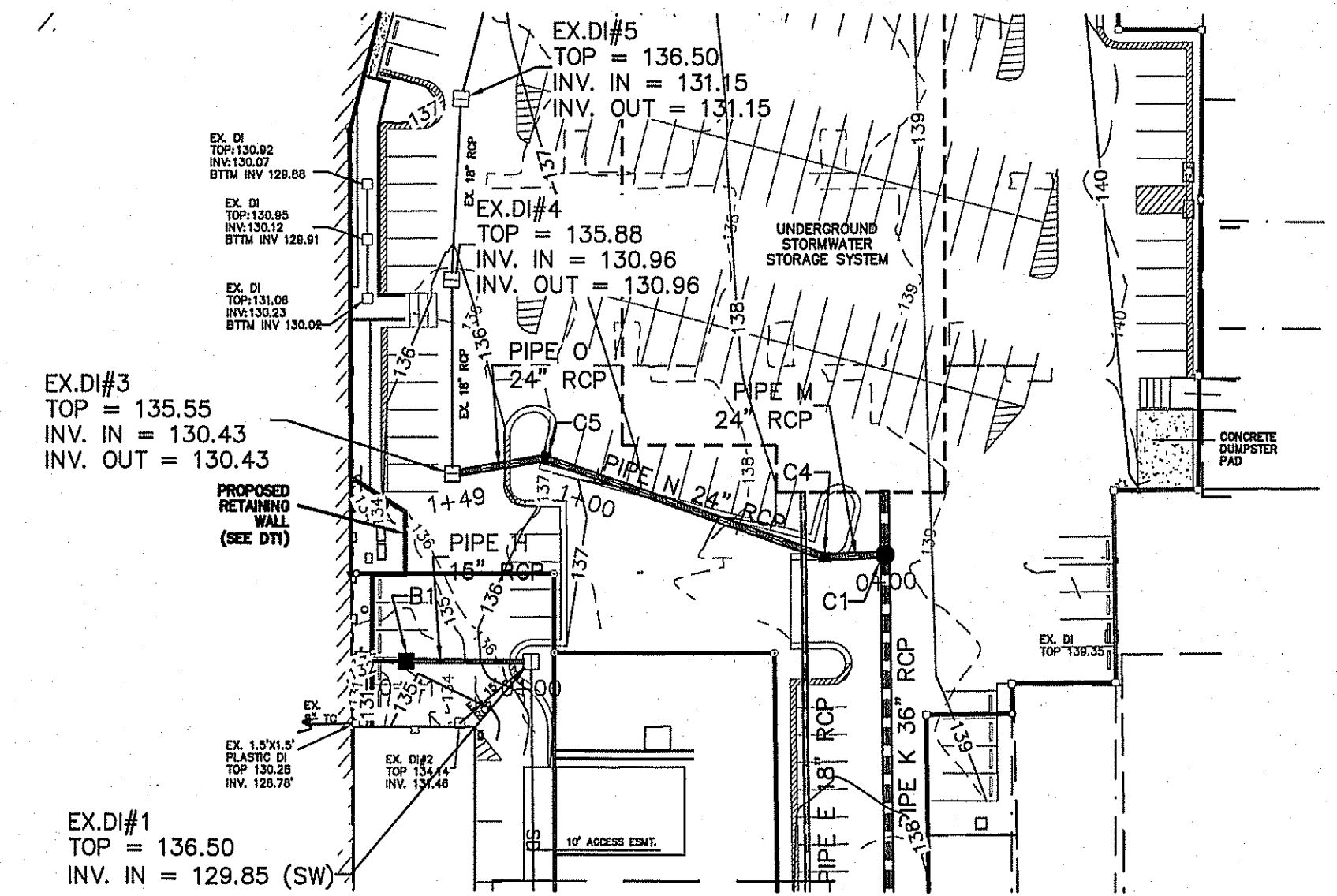
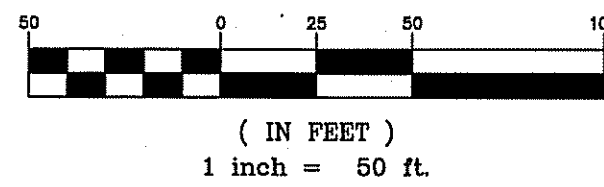
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CONTRACTOR RESPONSIBLE FOR COMPLYING WITH ALL REQUIREMENTS/CONDITIONS OF ALL ENCROACHMENTS & PERMITS INCLUDING PROVIDING BONDS/INSURANCE IF REQUIRED.  
 CONTRACTOR IS RESPONSIBLE FOR COORDINATING REQUIRED INSPECTIONS BY CITY OF WILSON.



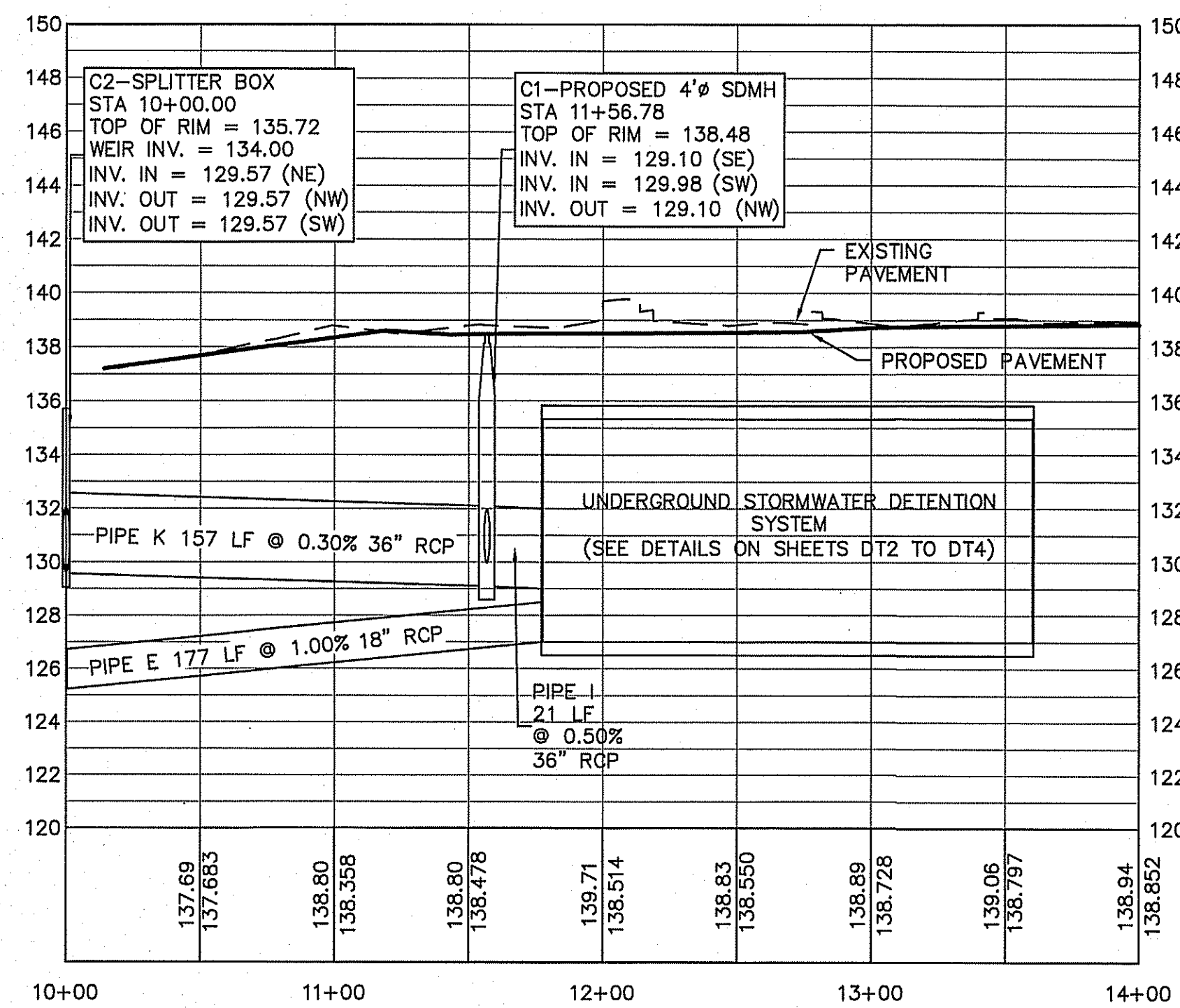
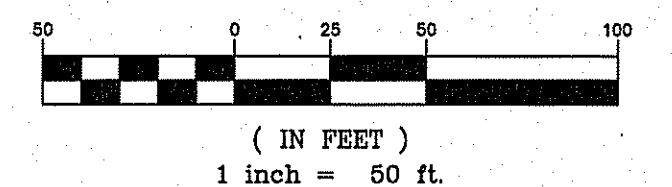
**C2 TO UGS TO A3 - L4 -  
 PLAN VIEW**

- LEGEND**
- EXISTING CATCH BASIN
  - EXISTING DROP INLET
  - EXISTING DROP INLET (PLASTIC 1'X1')
  - EXISTING STORM DRAIN MANHOLE (SDMH)
  - PROPOSED CATCH BASIN
  - PROPOSED STORMWATER DRAINAGE MANHOLE (SDMH)
  - PROPOSED STORMWATER DRAINAGE SPLITTER BOX
  - PROPOSED STORM DRAIN LINE
  - PROPOSED CONTOUR
  - EXISTING STORM DRAIN LINE

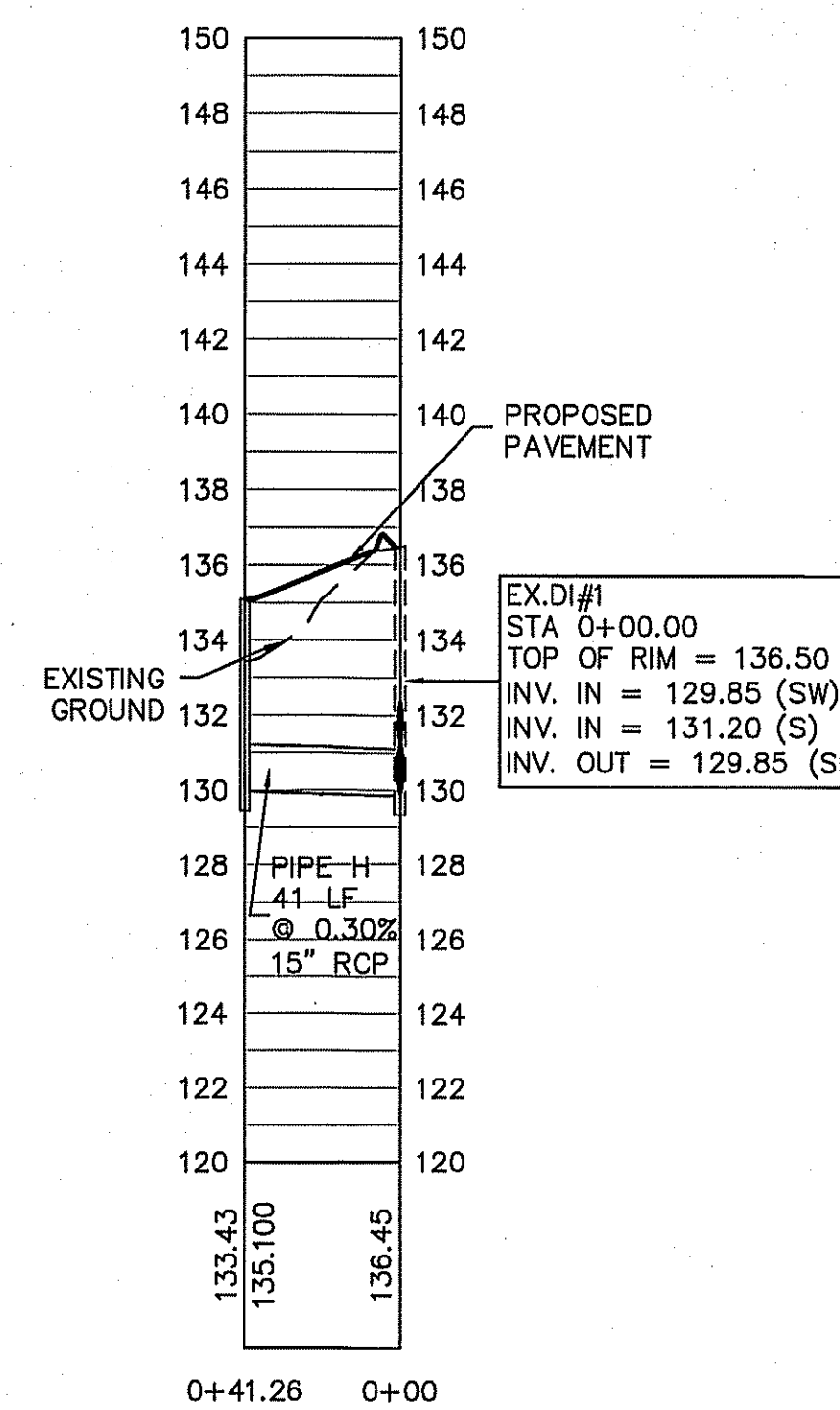


**B1 TO EX. DI#1 - L2 -  
 DI#3 TO C4 - L3 -  
 PLAN VIEW**

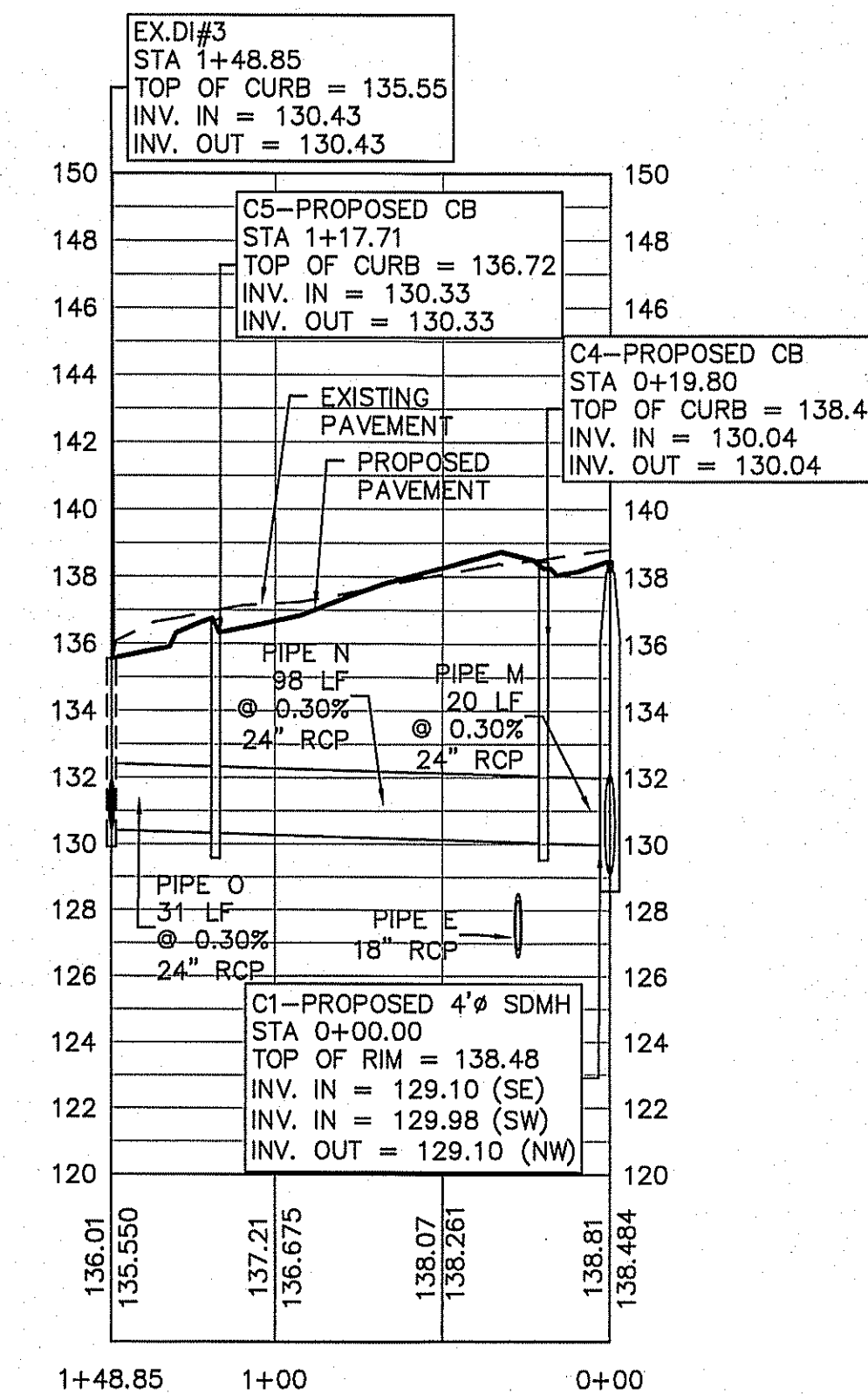
- LEGEND**
- EXISTING CATCH BASIN
  - EXISTING DROP INLET
  - EXISTING DROP INLET (PLASTIC 1'X1')
  - EXISTING STORM DRAIN MANHOLE (SDMH)
  - PROPOSED CATCH BASIN
  - PROPOSED STORMWATER DRAINAGE MANHOLE (SDMH)
  - PROPOSED STORMWATER DRAINAGE SPLITTER BOX
  - PROPOSED STORM DRAIN LINE
  - PROPOSED CONTOUR
  - EXISTING STORM DRAIN LINE



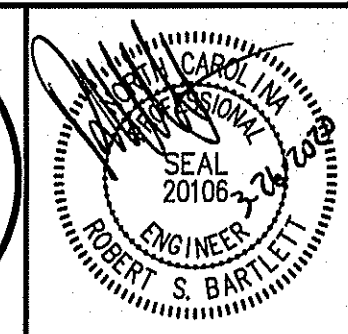
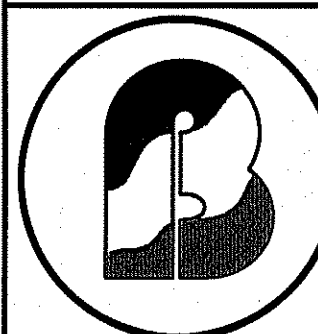
**C2 TO UGS TO A3 - L4 -**



**B1 TO EX. DI#1 - L2-**



**EX. DI#3 TO C4 - L3-**



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**PARKING LOT  
 STORMWATER  
 PLAN & PROFILE**

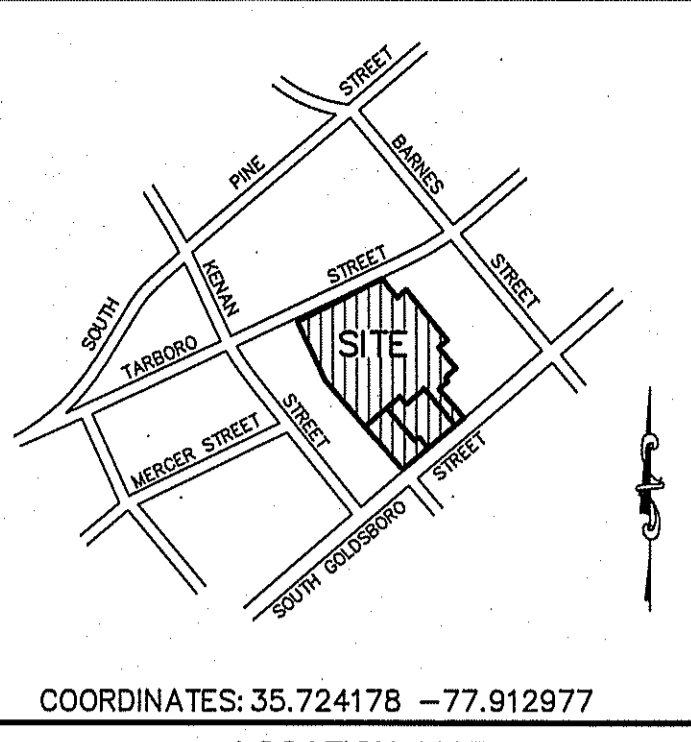
**WHIRLIGIG STATION  
 PARKING LOT IMPROVEMENTS**

DATE: MAR. 2020  
 SCALE(HORIZ): 1/4" = 50'  
 SCALE(VERT): 1" = 5'  
 REVISIONS:

PROJECT: 18-501  
 CLIENT CODE: WC  
 CAD FILE: 18501SP3  
 FIELD BOOK:  
 DRAWN BY: LR  
 SURVEY BY: TB/DB  
 CITY OF WILSON WILSON COUNTY  
 NORTH CAROLINA ZONE: CCMX  
 PIN # SHEET SP6



LOCATION, QUANTITY AND PLACEMENT OF DRAINAGE PIPES AND EROSION CONTROL DEVICES MAY VARY TO BETTER CONFORM TO FIELD CONDITIONS.



**CONSTRUCTION SEQUENCE:**

1. EROSION AND SEDIMENT CONTROL (EASC) PERMIT AND CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITIES OCCUR. NO WORK TO BE DONE ON SITE UNTIL THE SEDIMENTATION AND EROSION CONTROL PLAN HAS BEEN APPROVED AND PERMIT ACQUIRED. NOTIFY THE DEMLR RALEIGH REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO COMMENCING THE LAND DISTURBING ACTIVITY AT PHONE NUMBER (919)791-4200. MAINTAIN ON SITE A RAIN GAUGE, RECORDS, COPY OF THE PERMIT AND SEDIMENT & EROSION CONTROL PLANS.
2. PHASE CONSTRUCTION TO LIMIT TIME OF EXPOSURE AND PROVIDE GROUND COVER UNDER GUIDELINES OF THE NPDES PERMIT.
3. INSTALL CONSTRUCTION ENTRANCE, COMPOST SOCKS AND SILT FENCE ACCORDING TO PLANS.
4. BEGIN EXCAVATION FOR INSTALLATION OF PIPES, BOXES AND UNDERGROUND STORMWATER STORAGE SYSTEM. IF GROUNDWATER IS PRESENT DURING EXCAVATION, DEWATER USING PUMP AND SILT BAG. SILT-BAGS AND SURPLUS EXCAVATED MATERIALS TO BE TO BE DISPOSED OFF AT AN APPROVED OFF-SITE DISPOSAL AREA/FACILITY.
5. INSTALL AND MAINTAIN PIPE INLET PROTECTION FOR STORM DRAIN UNDER CONSTRUCTION AT THE END OF THE DAY OR ONSET OF RAIN UNTIL BOXES ARE BUILT AND YARD INLET DEVICES INSTALLED. USE BLOCK AND GRAVEL INLET PROTECTION OR ACCEPTABLE ALTERNATIVE AFTER BOXES ARE INSTALLED.
6. BACKFILL THEN PAVE TO DESIGN GRADE AS PER PLANS.
7. THE CONTRACTOR SHALL CONDUCT SELF-INSPECTIONS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES AND COMPLETE THE FOLLOWING COMBINED SELF-INSPECTION FORM FOUND ON THE DEMLR WEBSITE: <https://files.nc.gov/files/ncgov/2018/02/20180220Resources/Stormwater/NPDES20General/20Permits/DEMUR-CSE-Inspection-Form-Updated-022018.pdf>. TWELVE MONTHS OF COMPLETE INSPECTION FORMS SHALL BE KEPT ON-SITE AND AVAILABLE FOR INSPECTION AT ALL TIMES. IT IS RECOMMENDED A COPY BE KEPT IN A PERMITS BOX.
8. SELF-INSPECTIONS FOR EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE PERFORMED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF EVERY RAIN EVENT OF GREATER THAN 1 INCH. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN MEASURES AS DESIGNED. ALL EASC MEASURES SHALL BE MAINTAINED AS SPECIFIED IN THE CONSTRUCTION DETAILS ON THIS PLAN. A RAIN GAUGE SHALL BE INSTALLED AT THE PROJECT SITE FOR MONITORING.
9. WHEN ALL UPLAND AREAS HAVE BEEN STABILIZED/PAVED, REMOVE TEMPORARY MEASURES ONLY AFTER INSPECTION BY DEMLR.
10. WHEN THE PROJECT IS COMPLETE, THE PERMITEE SHALL CONTACT DEMLR TO CLOSE OUT THE EASC PLAN. AFTER DEMLR INFORMS THE PERMITEE OF THE PROJECT CLOSE OUT, VIA INSPECTION REPORT, THE PERMITEE SHALL VISIT <https://files.nc.gov/files/ncgov/2001/01/20010101Resources/Stormwater/NPDES20General/20Permits/DEMUR-CSE-Inspection-Form-Updated-022018.pdf> TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (e-NOT). A \$100 ANNUAL GENERAL PERMIT WILL BE CHARGED UNTIL e-NOT HAS BEEN FILLED OUT.
11. STREET IN FRONT OF THE PROJECT SITE SHALL BE KEPT CLEAN AT ALL TIMES OR A WASH STATION WILL BE REQUIRED.

**MAINTENANCE:**

1. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CHECKED AT LEAST ONCE EVERY WEEK AND AFTER EVERY RUN-OFF PRODUCING RAINFALL.
2. SEDIMENT SHALL BE REMOVED AND DEVICES REPAIRED AND/OR REPLACED AS NECESSARY.

**SITE DATA**

TOTAL AREA: 80,192 SF (1.84 AC)-(LOT 3)  
9,092 SF (0.21 AC)

TOTAL NO OF LOTS: 2

ZONE: CCMX

MINIMUM BUILDING LINES: FRONT = 0'  
SIDE = 0'  
REAR = 0'

PROPOSED PARKING SPACES: 200-9'x18'

EXISTING USE: PARKING LOT

PROPERTY ADDRESS: 211 TABORO ST SW (LOT 3)  
228 GOLDSBORO ST SW

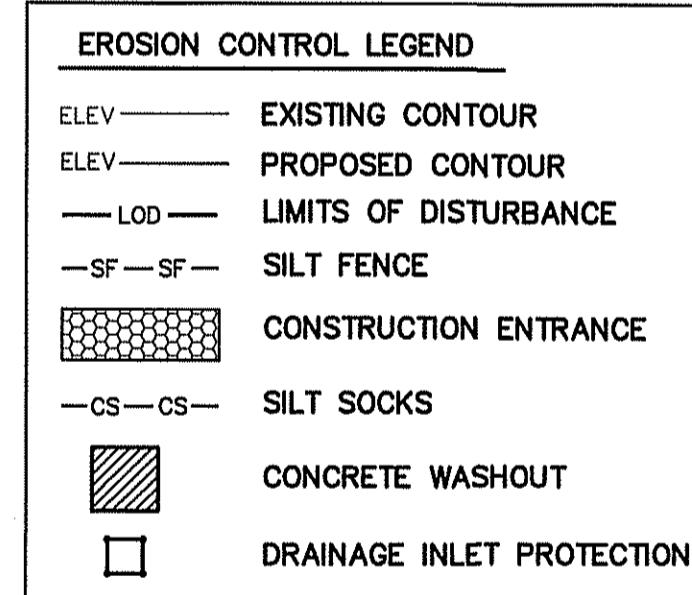
OWNERS: CITY OF WILSON (LOT 3)  
PO BOX 10  
WILSON, NC 27894

COZART & EAGLES  
PO BOX 1427  
WILSON, NC 27894

PIN NO: 3722-20-7111 (LOT 3)  
3722-20-6083

REFERENCE: DEED BOOK 2406 PAGE 288 DEED BOOK 1872 PAGE 180  
DEED BOOK 1326 PAGE 359 PLAT BOOK 1 PAGE 186  
DEED BOOK 2190 PAGE 499 PLAT BOOK 1 PAGE 192  
DEED BOOK 1261 PAGE 90 DEED BOOK 2433 PAGE 635  
DEED BOOK 2522 PAGE 631 PLAT BOOK 36 PAGE 288  
DEED BOOK 2560 PAGE 365 PLAT BOOK 39 PAGE 110  
PLAT BOOK 40 PAGE 187

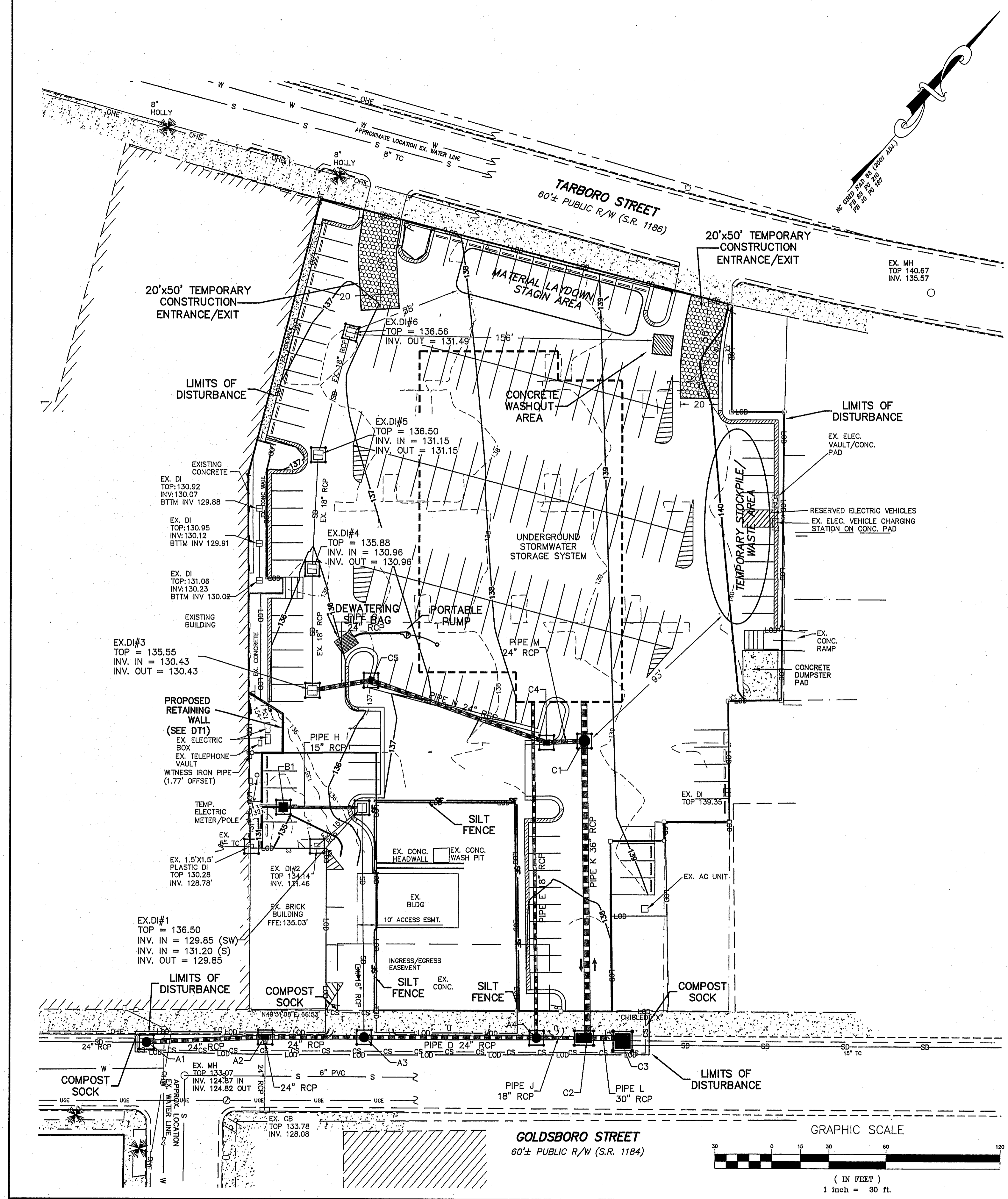
DISTURBED AREA: 2.3 AC±



**STORM DRAIN SCHEDULE (10-YEAR STORM)**

FROM	TO	PIPE RUN	INLET AREA (SF)	INLET AREA (ACRES)	A TOTAL AREA (ACRES)	INLET TIME (MIN)	PIPE TIME (MIN)	TIME OF CONC (MIN)	I INTENSITY (IN/HR)	RUNOFF COEFF	Cc COEFF	Q10 (CFS)	DSCHRG (FT/FT)	SLOPE (INCHES)	Dtheo (INCHES)	SIZE (INCHES)	Vuili (FT/SEC)	Qfull (CFS)	LENGTH (FT)	SEGMENT TIME (MIN)	UPPER INVERT	LOWER INVERT
EX.DI#6	EX.DI#4	R	13167	0.30	0.30	5.0	0.0	5.0	7.55	0.90	0.90	2.1	0.0051	11.1	18	4.2	7.5	66.4	0.3	131.49	131.15	
EX.DI#5	EX.DI#4	Q	8021	0.18	0.49	5.0	5.3	5.3	7.55	0.90	0.90	3.3	0.0032	14.4	18	3.4	5.9	59.5	0.3	131.15	130.96	
EX.DI#4	EX.DI#3	P	17367	0.40	0.89	5.0	5.6	5.6	7.55	0.90	0.90	6.0	0.0084	15.1	18	5.4	9.6	63.5	0.2	130.96	130.43	
EX.DI#3	C5	O	16238	0.37	1.26	5.0	5.8	5.8	7.55	0.90	0.90	8.5	0.0030	20.9	24	3.9	12.4	31.0	0.1	130.43	130.33	
C5	C4	N	11630	0.27	1.52	5.0	5.9	5.9	7.55	0.90	0.90	10.4	0.0030	22.4	24	3.9	12.4	98.0	0.4	130.33	130.04	
C4	C1	M	8579	0.15	1.68	5.0	6.3	6.3	7.55	0.90	0.90	11.4	0.0030	23.2	24	3.9	12.4	98.0	0.1	130.04	129.98	
C3	C1	L	291428	6.69	6.69	10.0	6.4	10.0	6.04	0.90	0.90	36.4	0.0085	29.5	30	7.7	37.8	16.0	0.0	129.71	129.57	
C2	C1	K	1488	0.03	6.72	10.0	6.4	10.0	6.04	0.90	0.90	36.4	0.0030	36.0	36	5.2	36.5	156.8	0.5	129.57	129.34	
C2	A4	J	0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0100	18	5.9	10.5	23.0	0.1	129.34	129.04		
C1	UGS	I	0	0.00	8.40	0.0	10.5	10.5	6.04	0.90	0.90	45.7	0.0050	35.5	36	42.0	47.1	20.9	0.0	129.04	128.00	
B1	EX.DI#1	H	4281	0.10	0.10	5.0	0.0	5.0	7.55	0.90	0.90	0.7	0.0030	8.0	15	2.9	3.5	41.0	0.2	128.97	128.85	
EX.DI2	EX.DI#1	G	5287	0.12	0.12	5.0	0.0	5.0	7.55	0.90	0.90	0.8	0.0083	7.2	15	4.8	5.9	31.0	0.1	131.46	131.20	
EX.DI#1	A3	F	4499	0.10	0.32	5.0	5.2	5.2	7.55	0.90	0.58	1.4	0.0059	9.2	18	4.6	8.1	125.0	0.5	128.85	129.11	
UGS	A4	E										11.1	0.0100	18.4	18	5.9	10.5	177.0	0.5	127.00	125.23	
A4	A3	D										11.1	0.0100	18.4	24	7.2	22.6	91.0	0.2	124.99	124.08	
A3	A2	C										12.5	0.0100	19.2	24	7.2	22.6	52.0	0.1	124.08	123.56	
EX CB	A2	B	11486	0.26	0.26	5.0	0.0	5.0	7.55	0.90	0.90	1.8	0.0804	6.6	24	17.7	55.6	3.2	0.0	125.98	125.79	
A2	A1	A	18655	0.43	0.43	5.0	0.0	5.0	7.55	0.90	0.90	17.2	0.0100	21.6	24	7.2	22.6	62.0	0.1	123.56	122.94	

NOTE: Pipe E (UGS to A4) Q10 and size taken from Hydroflow calculations in the stormwater design report. Pipe J is an overflow pipe during higher storm event for splitter box C2. Pipe A (A2 to A1) Q10 = Total Q's from Pipes A, B & C



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FAX: (252) 399-0804  
www.bartlett.us.com

**SEDIMENTATION & EROSION CONTROL PLAN**

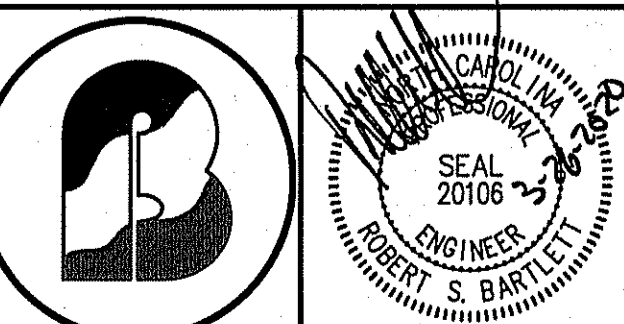
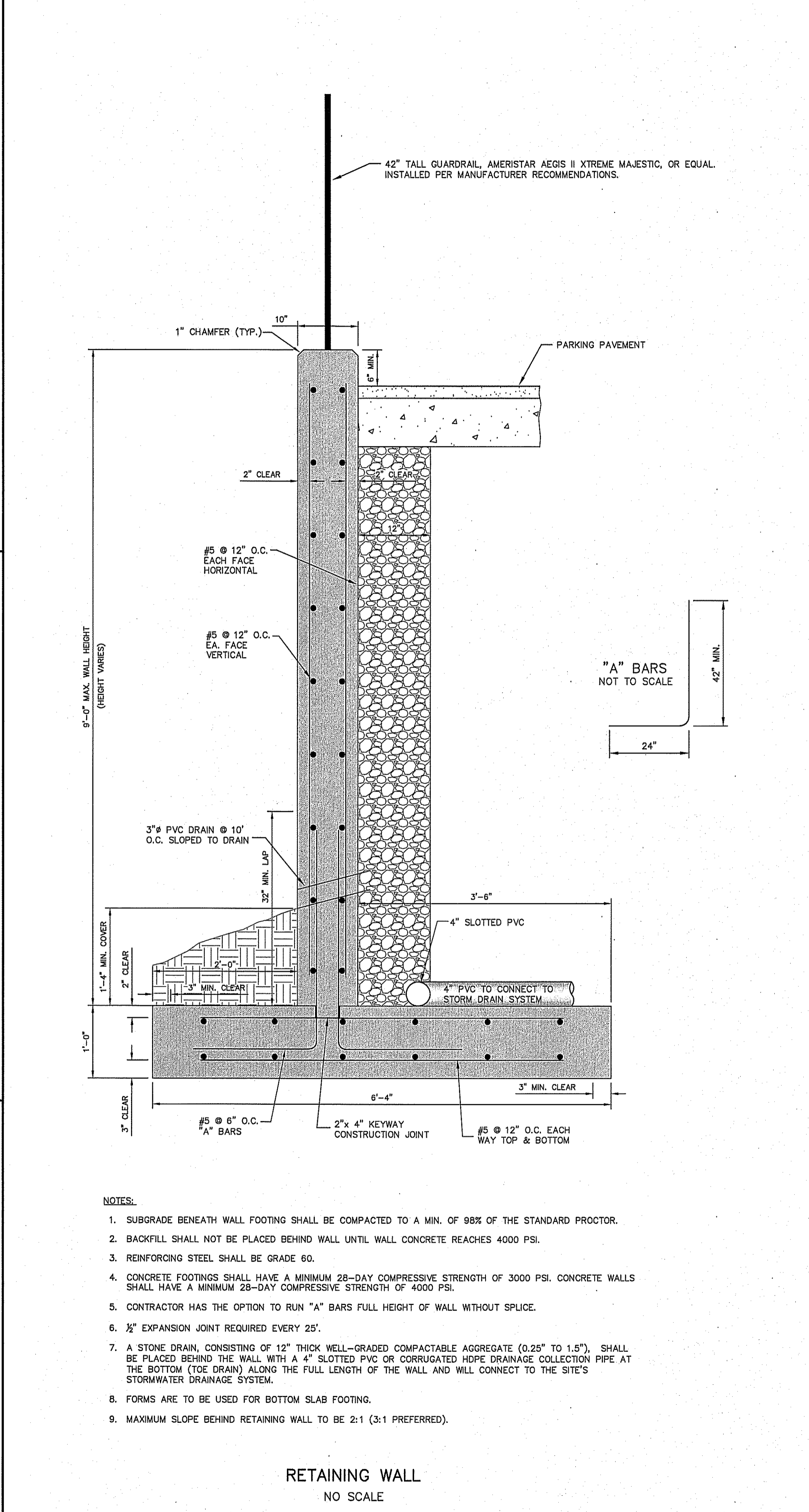
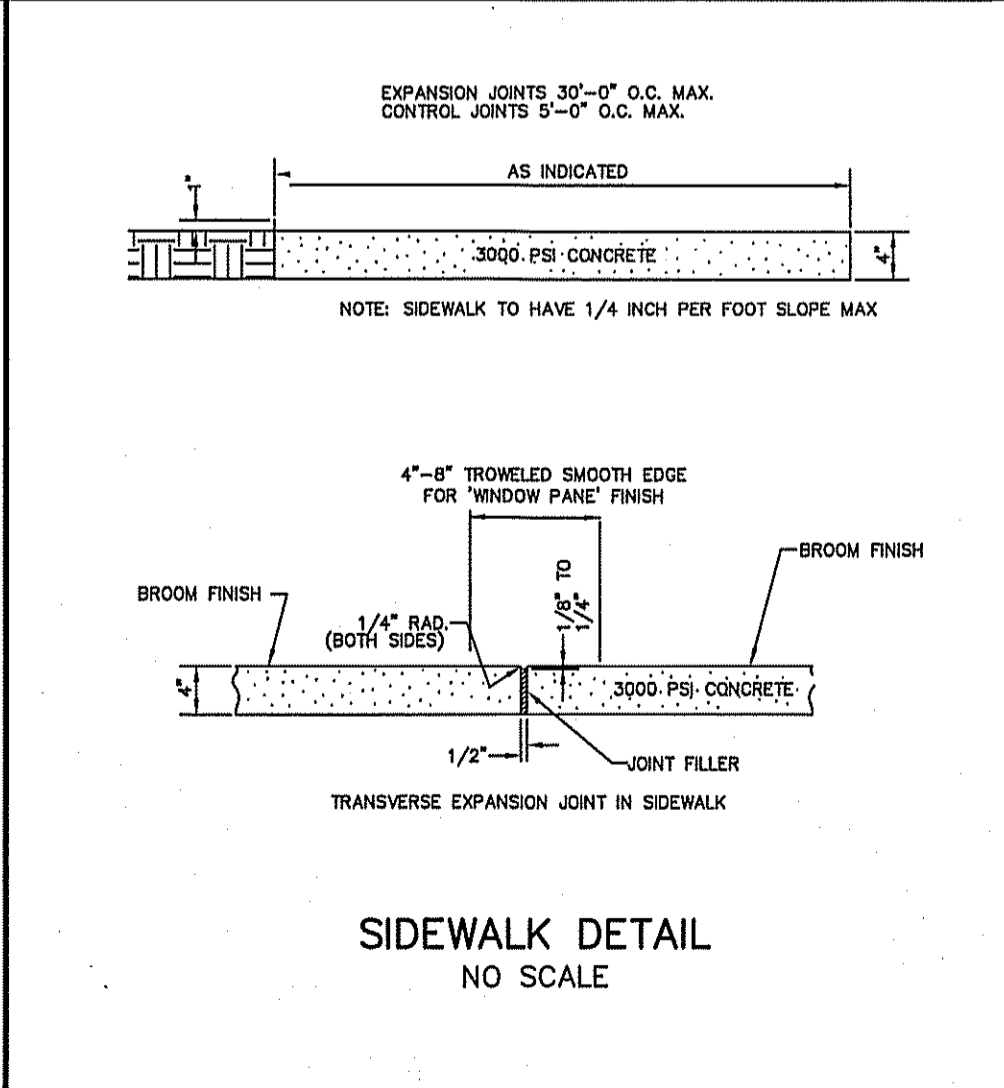
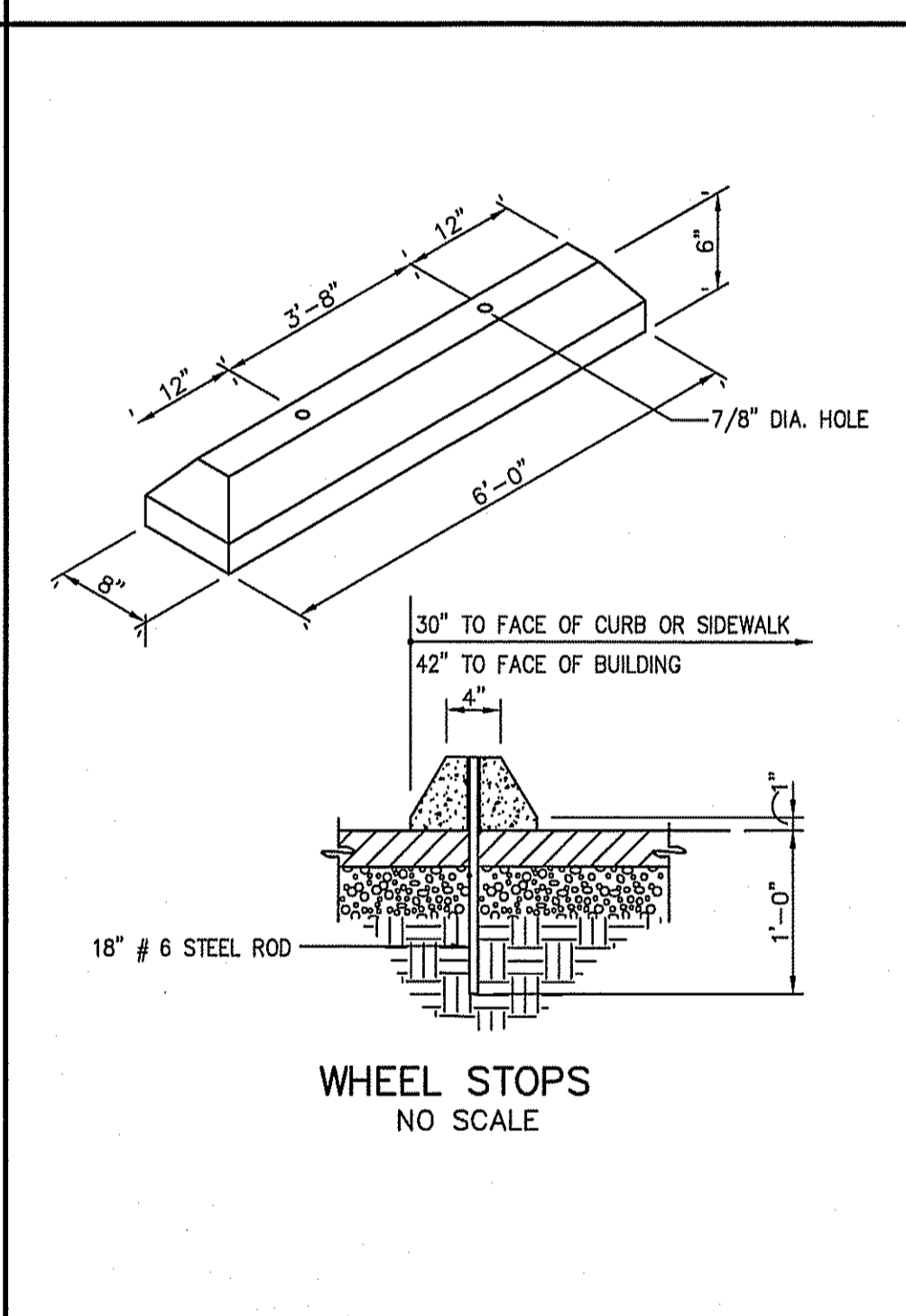
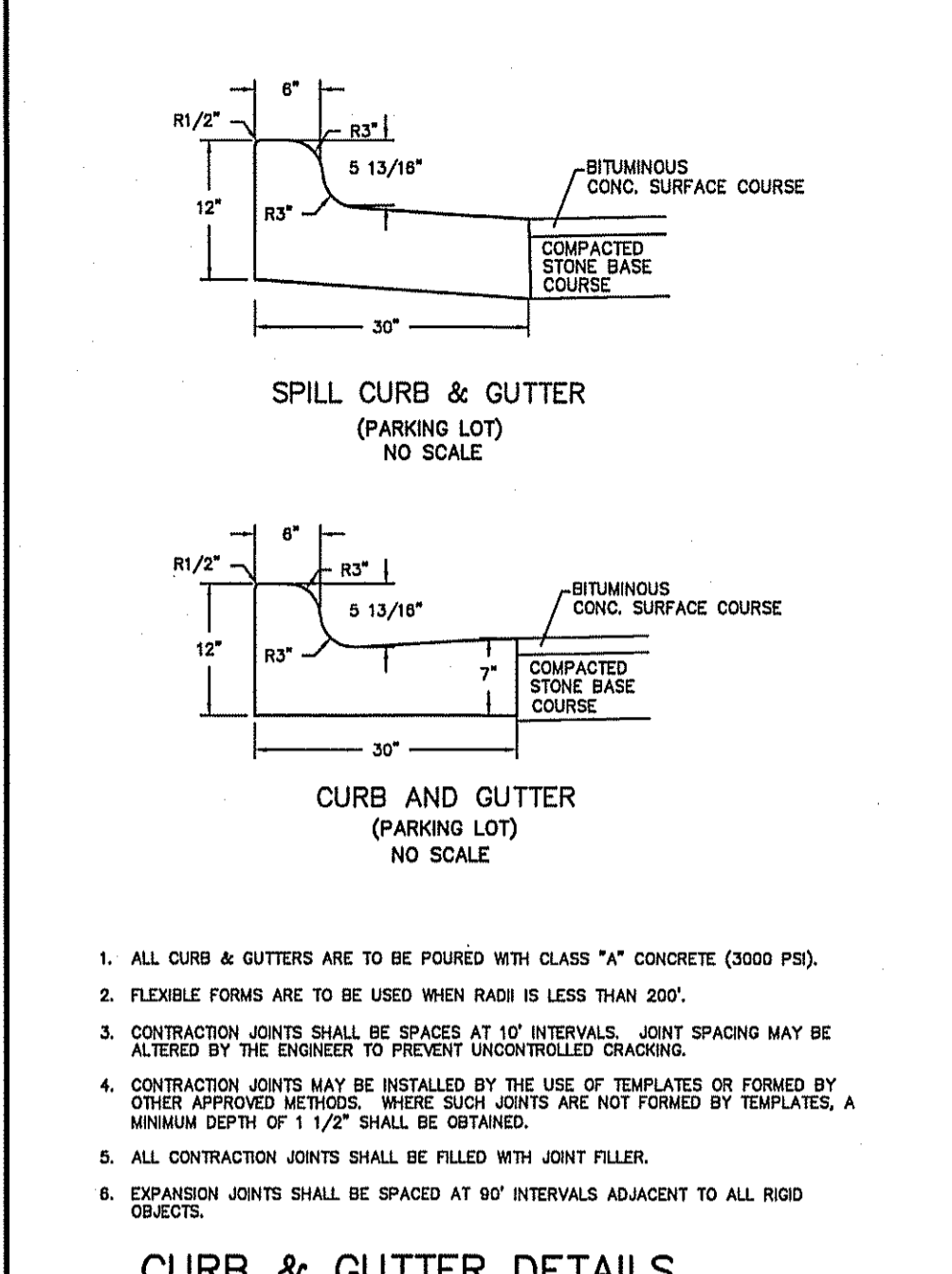
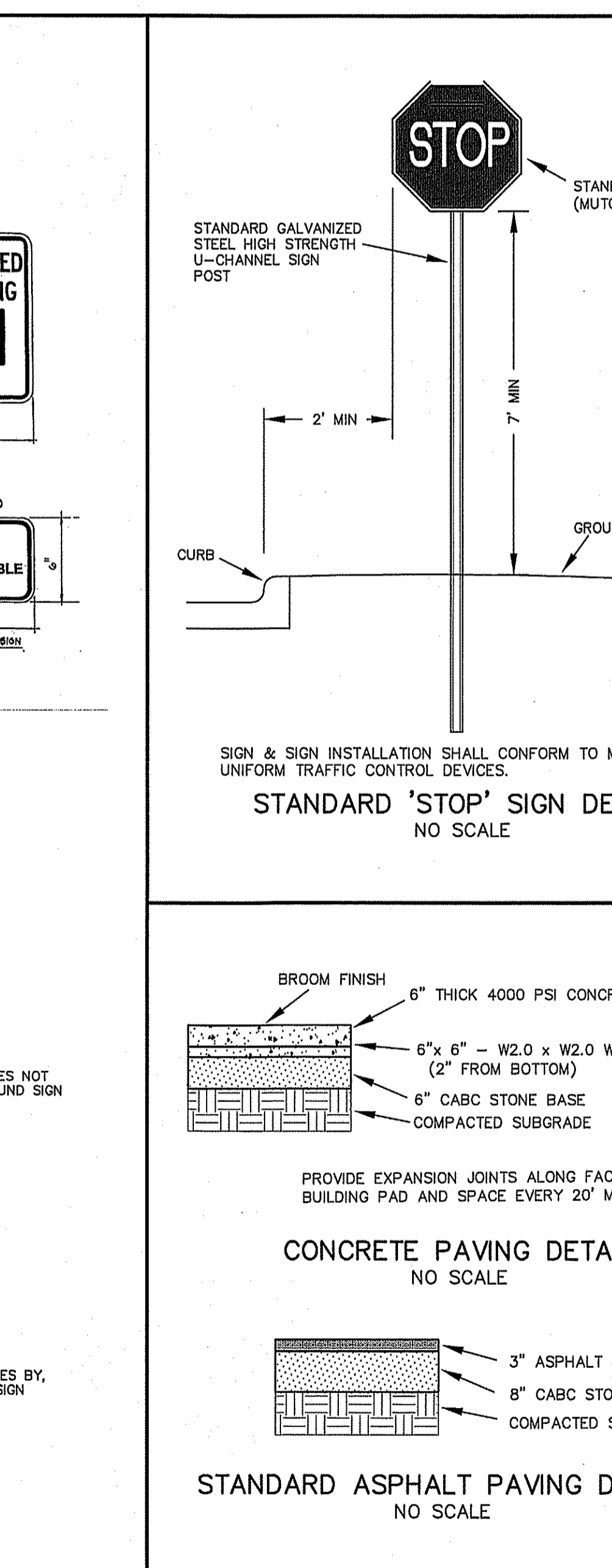
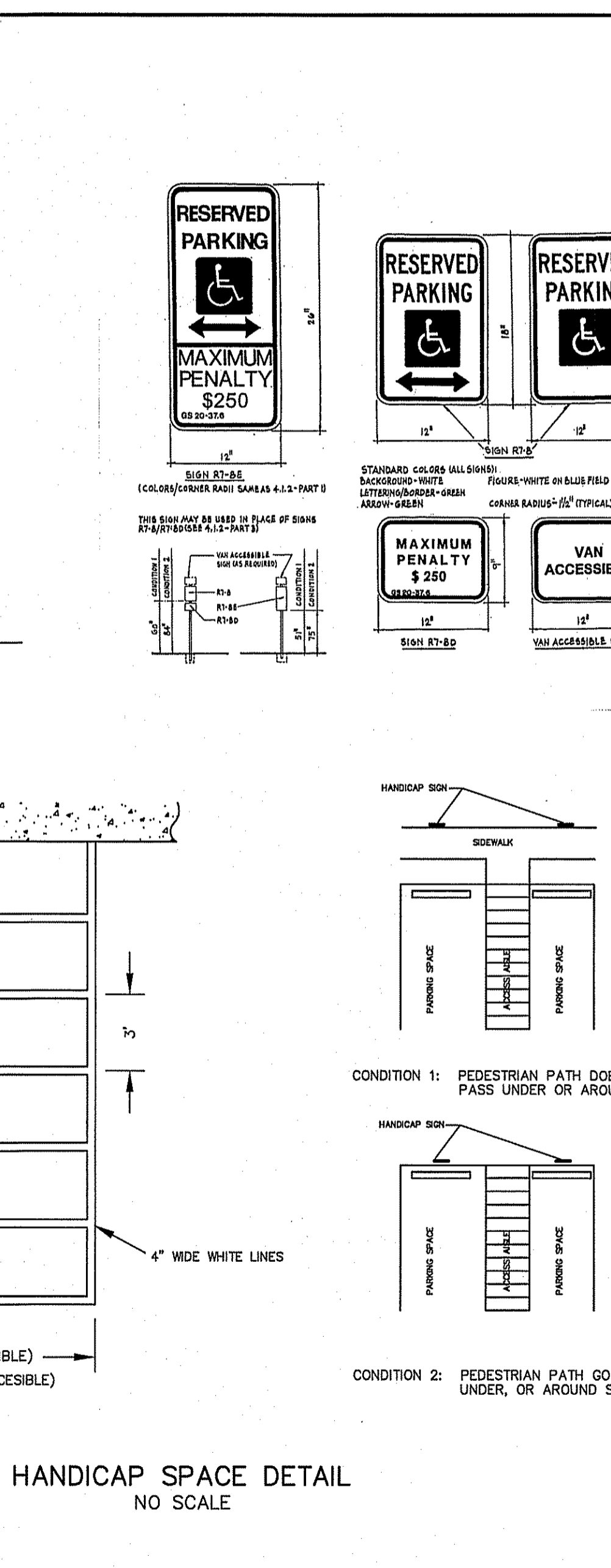
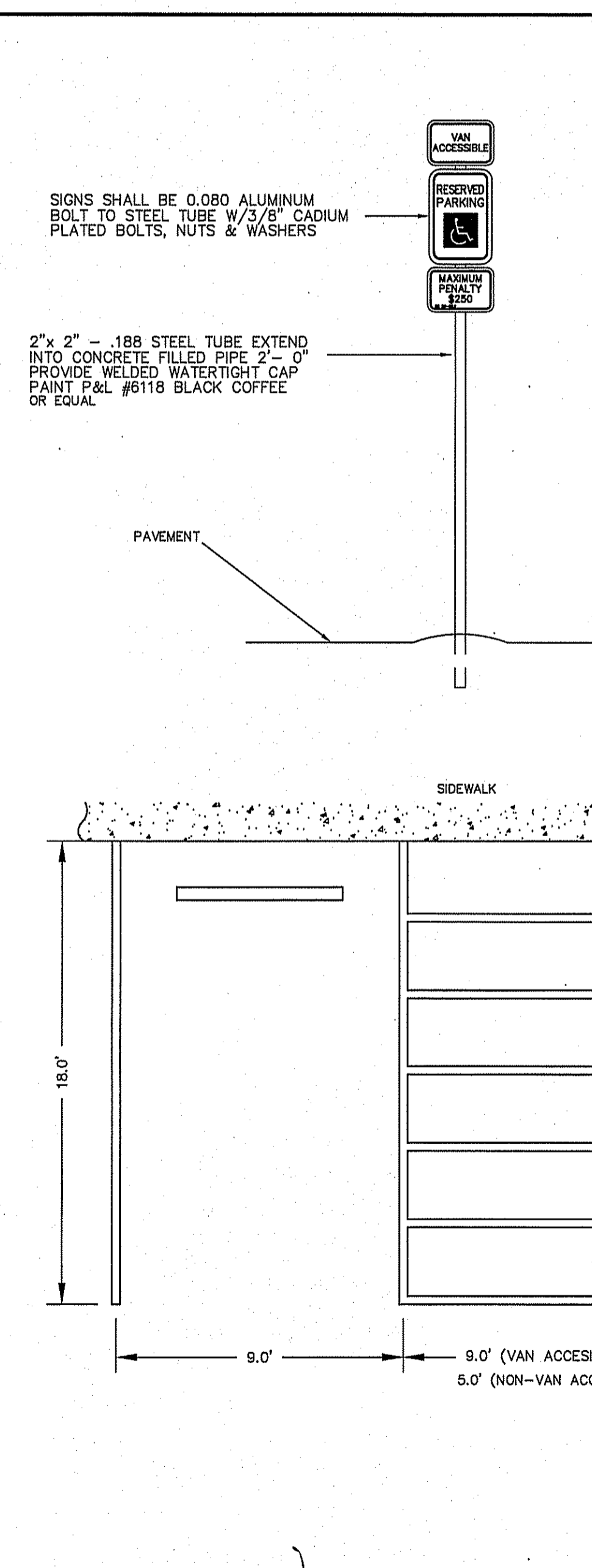
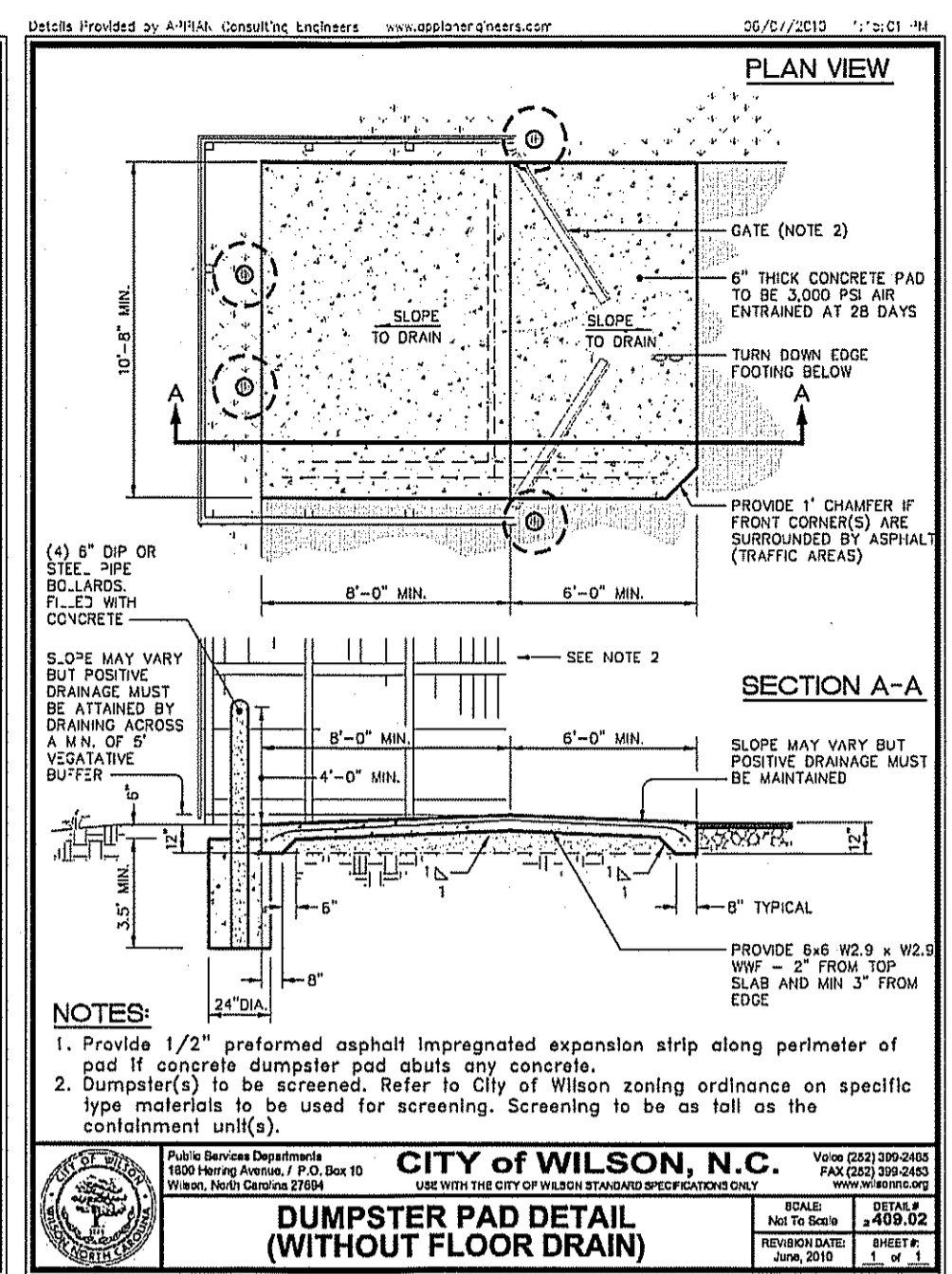
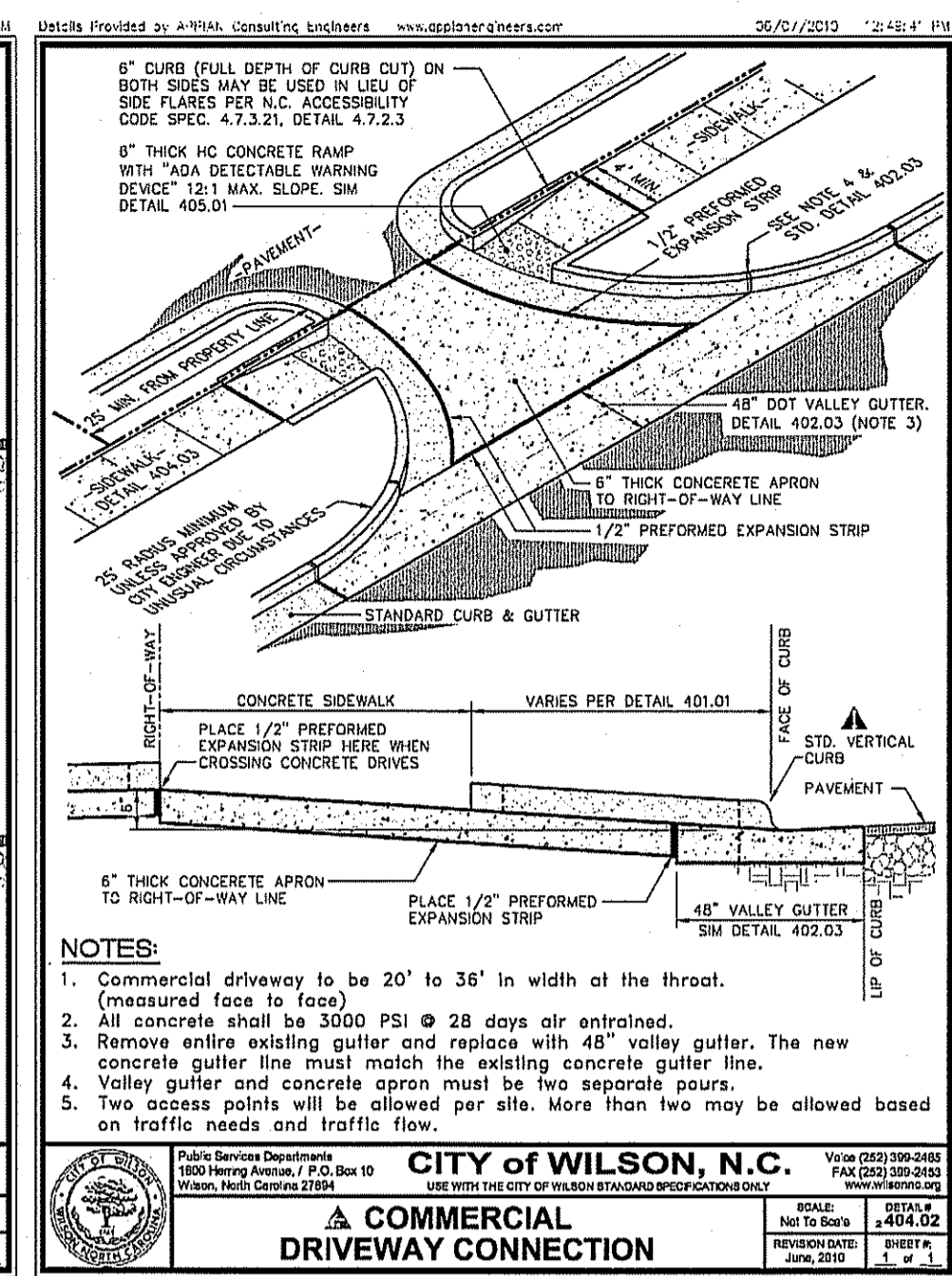
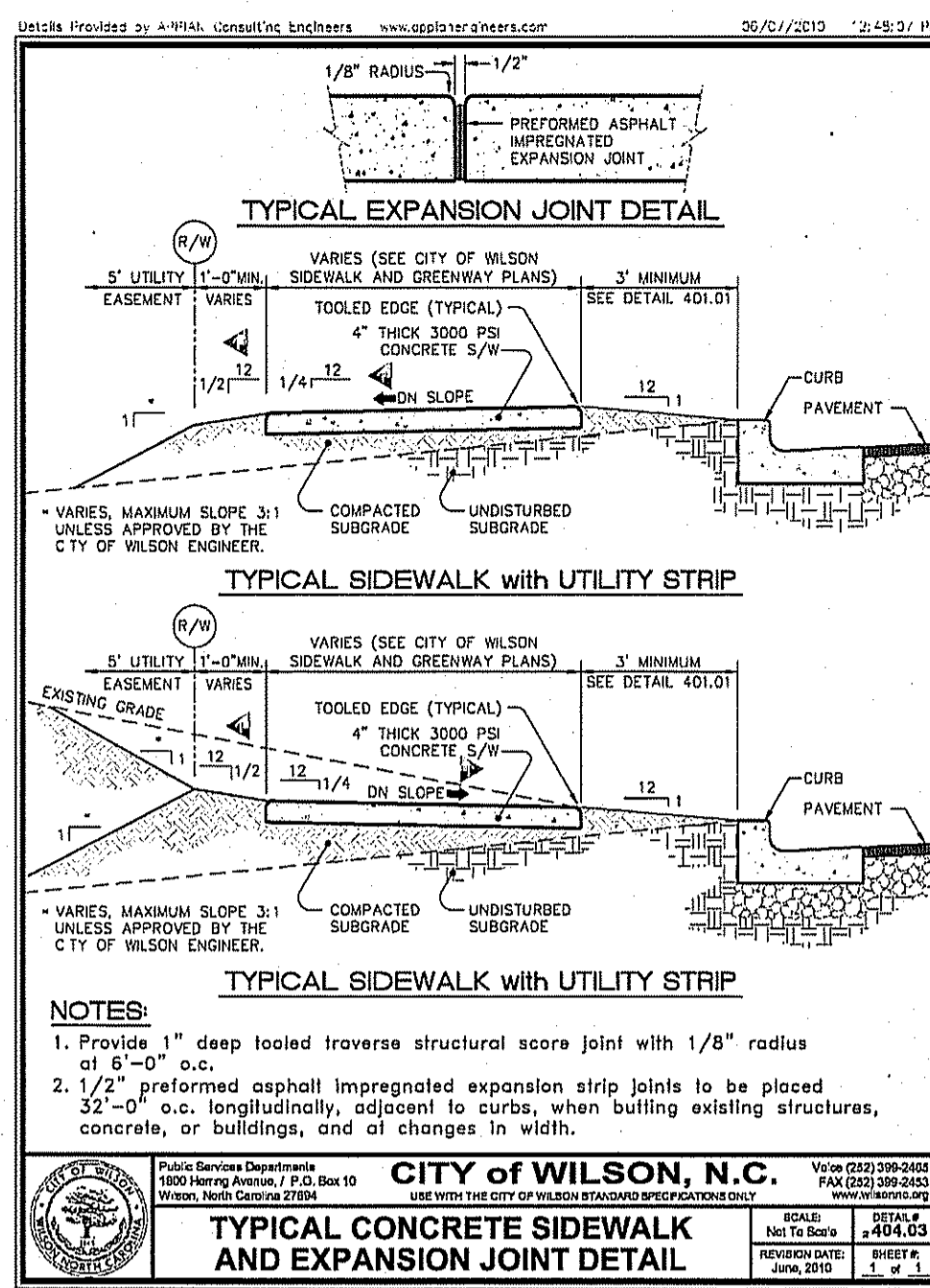
**WHIRLIGIG STATION  
PARKING LOT IMPROVEMENTS**

DATE: JAN. 2020  
SCALE(HORIZ): 1" = 30'  
SCALE(VERT): NA  
REVISIONS:

PROJECT: 18-501  
CLIENT CODE: WC  
CADFILE: 18501SP3  
FIELD BOOK:  
DRAWN BY: LR  
SURVEY BY: TB/DB

CITY OF WILSON WILSON COUNTY  
NORTH CAROLINA ZONE: CCMX  
PIN # SHEET SP7





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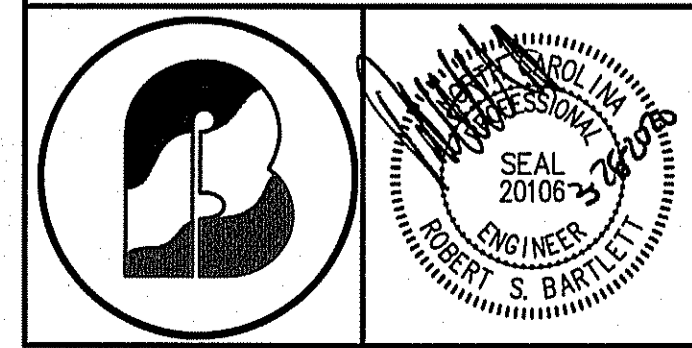
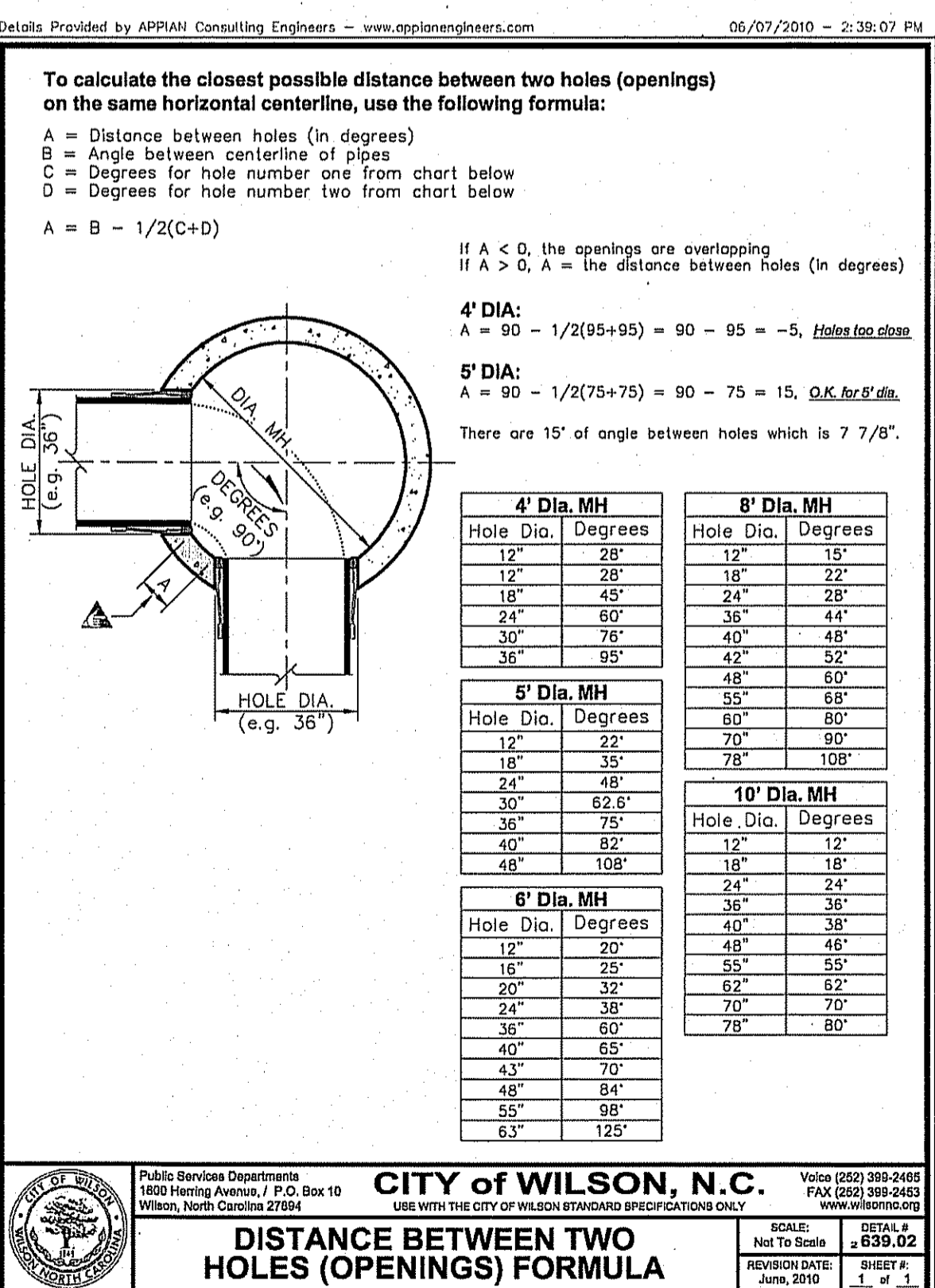
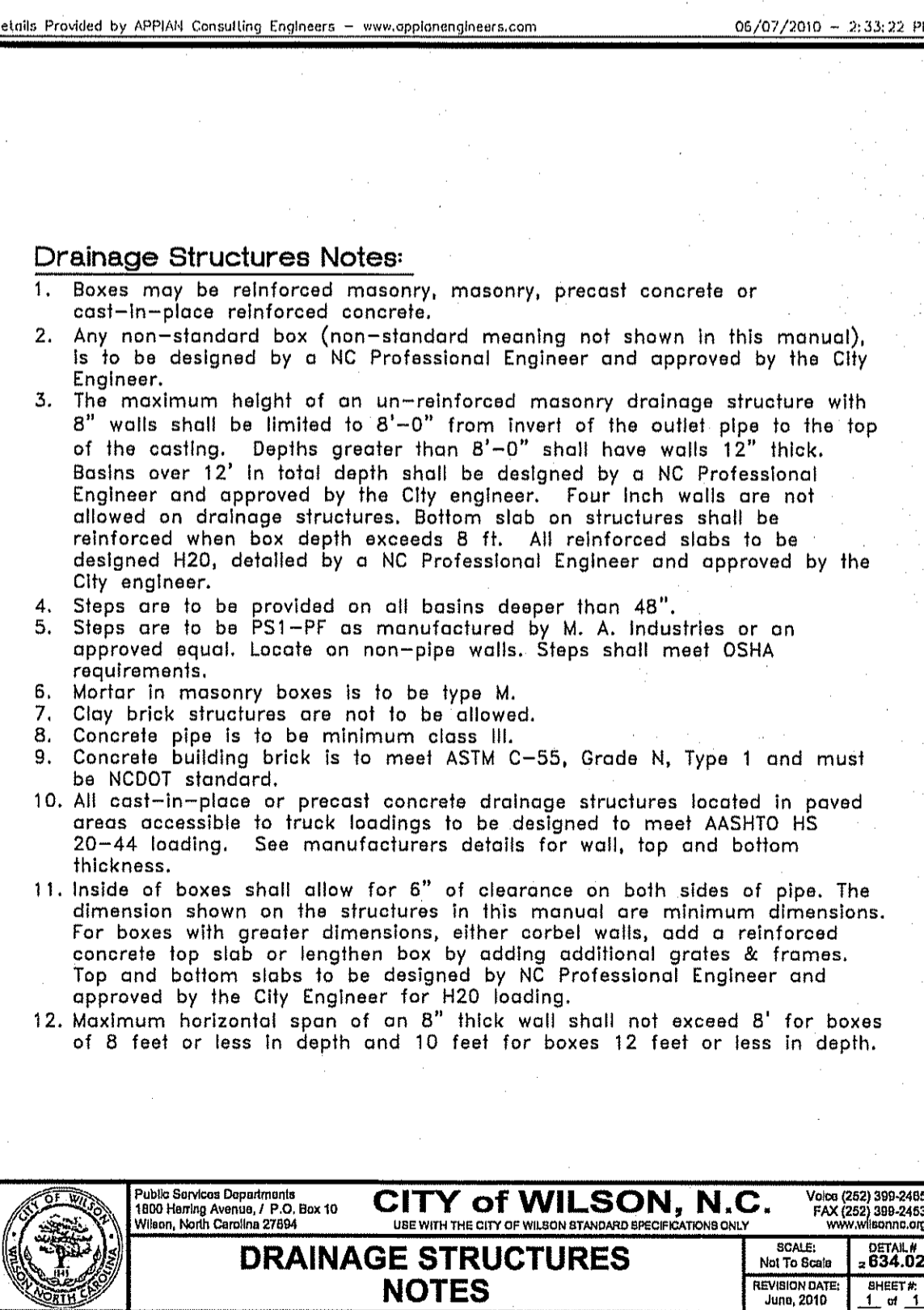
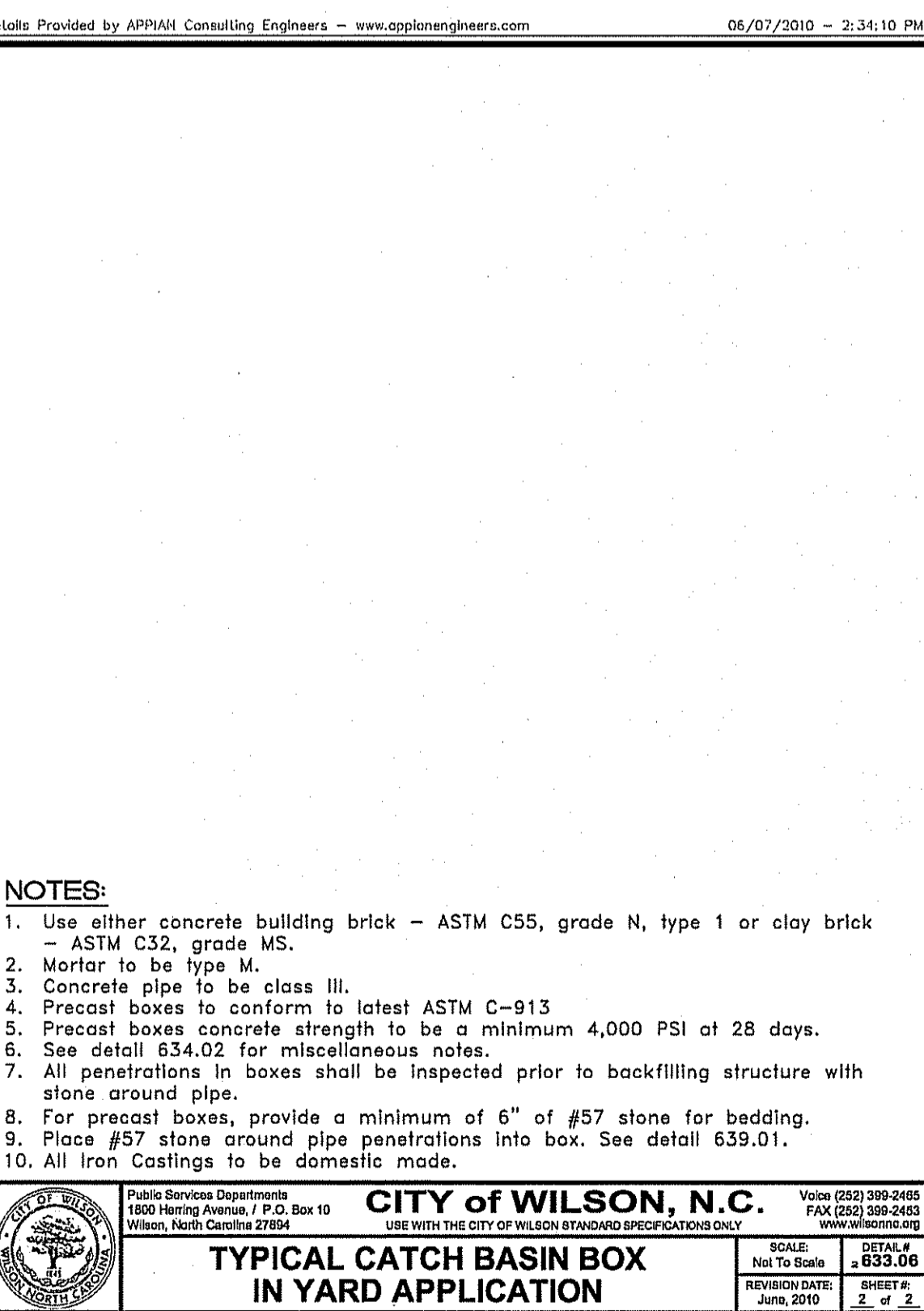
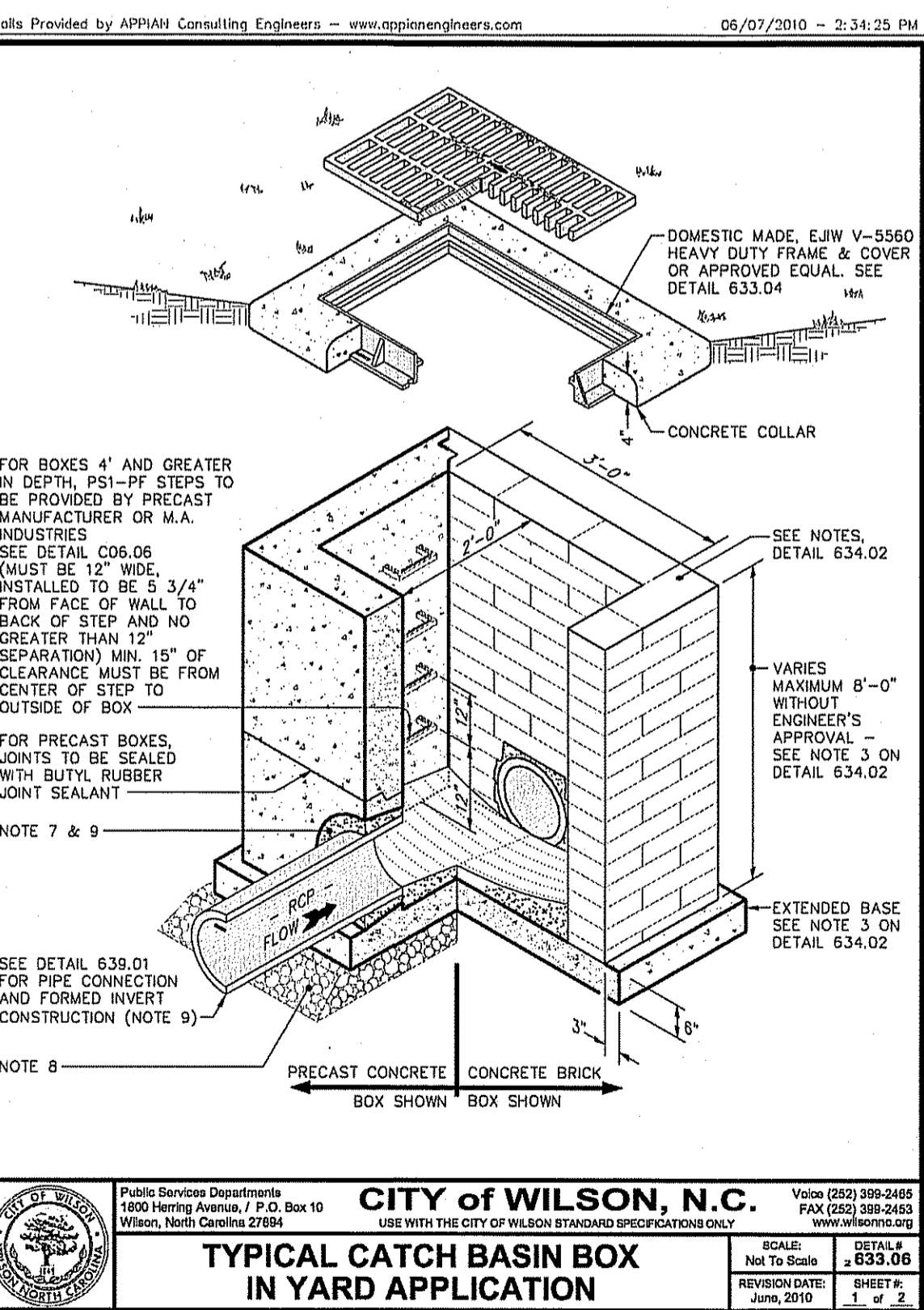
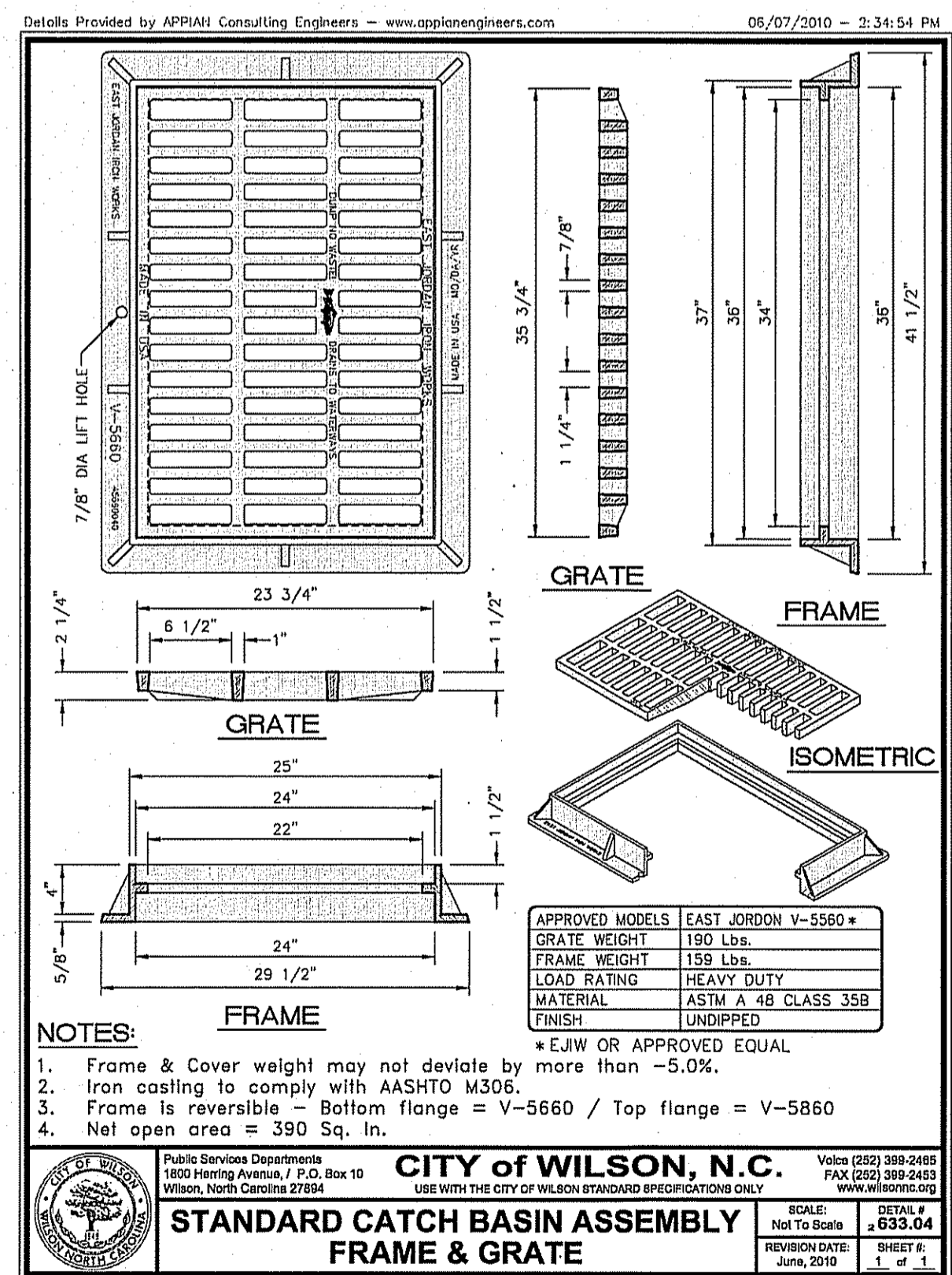
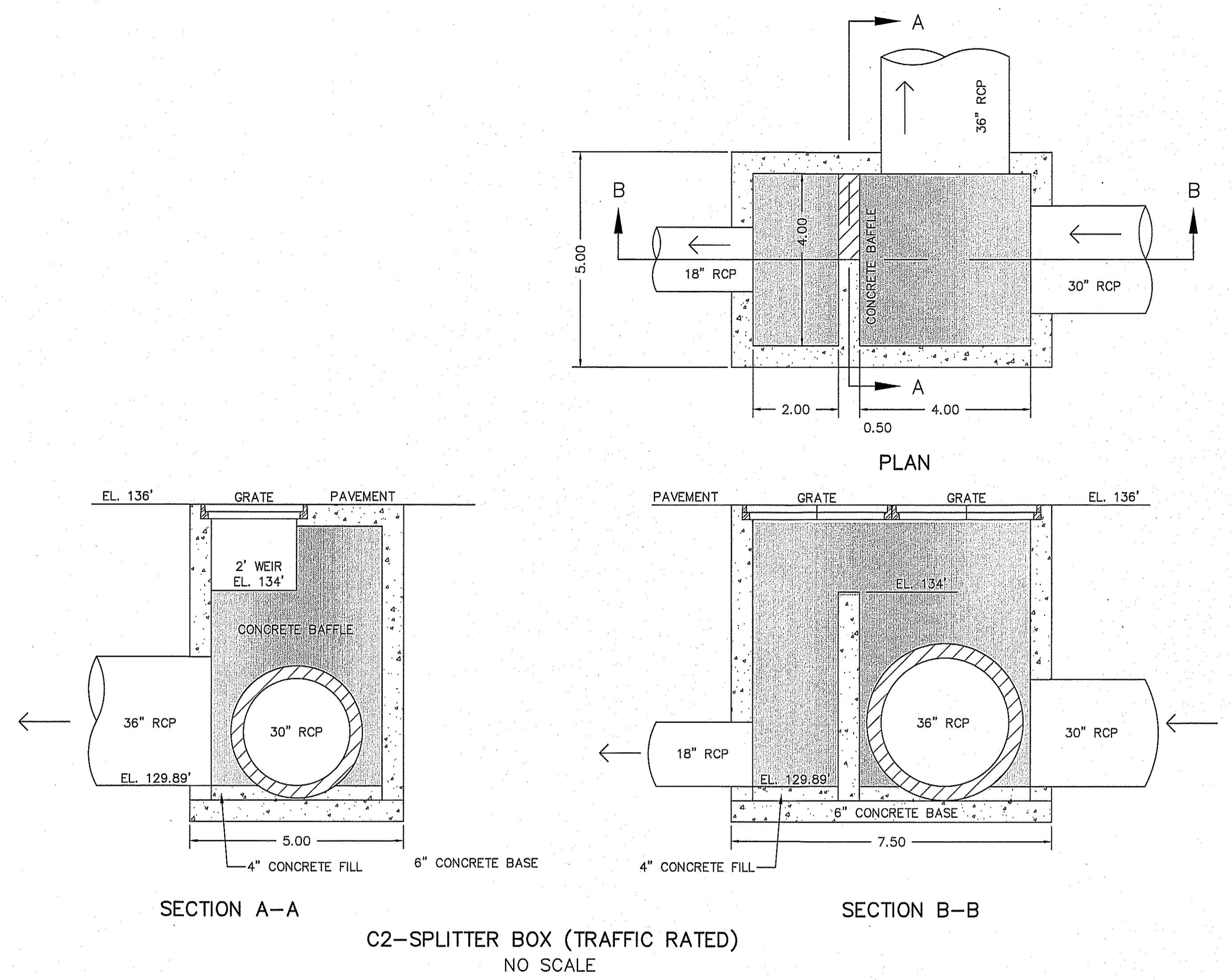
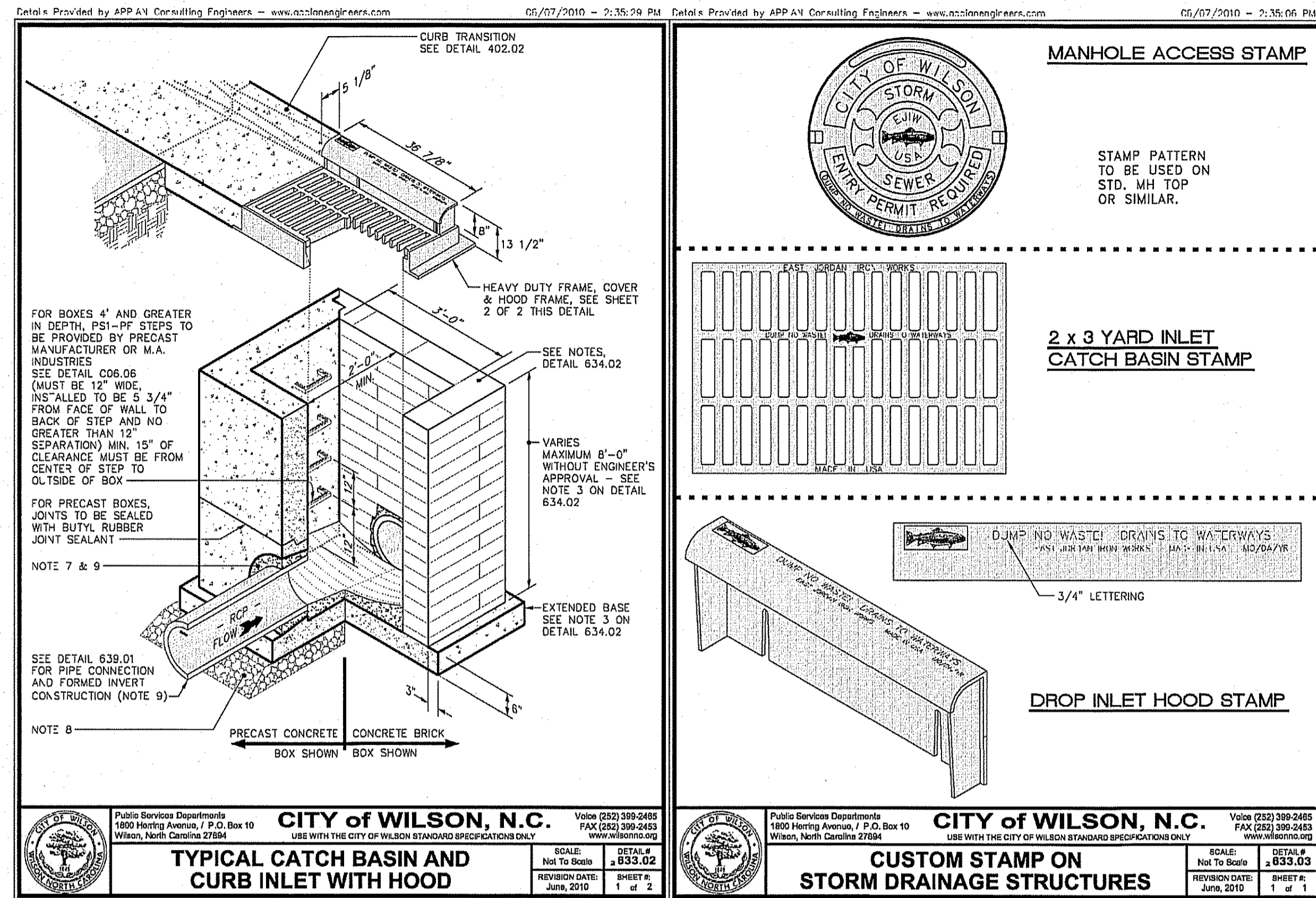
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**DETAILS**  
(STANDARD)

**WHIRLIGIG STATION**  
PARKING LOT IMPROVEMENTS

DATE: MAR. 2020	PROJECT: 18-501	CITY OF WILSON	WILSON COUNTY
SCALE(HORZ): AS SHOWN	CLIENT CODE: WC	NORTH CAROLINA	ZONE: CCMX
SCALE(VERT): NA	CADFILE: 18501SP3	PIN #	SHEET DT1
REVISIONS:	FIELD BOOK:		
	DRAWN BY: LR		
	SURVEY BY: TB/OB		





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**DETAILS (STANDARD)**

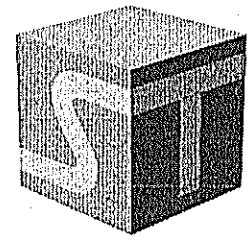
**WHIRLIG STATION PARKING LOT IMPROVEMENTS**

DATE: MAR. 2020  
SCALE(HORIZ): AS SHOWN  
SCALE(VERT): NA  
REVISIONS:

PROJECT: 18-501  
CLIENT CODE: WC  
CADFILE: 18501SP3  
FIELD BOOK:  
DRAWN BY: LR  
SURVEY BY: TB/DB

CITY OF WILSON WILSON COUNTY  
NORTH CAROLINA ZONE: CMX  
PIN # SHEET DT2

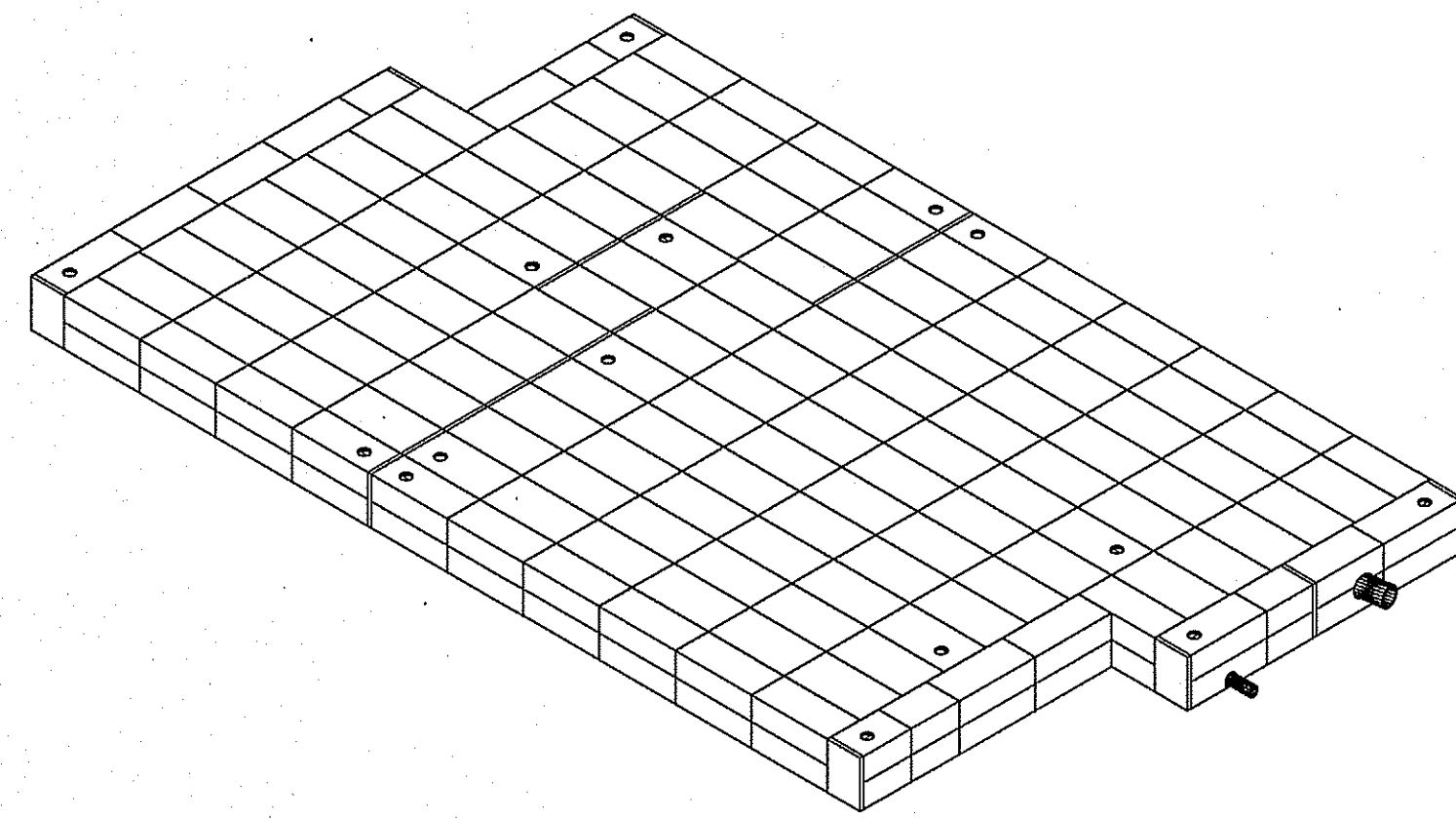




StormTrap

MODULAR CONCRETE STORMWATER MANAGEMENT

STORMTRAP
BY SIGNING THIS DOCUMENT YOU AGREE WITH THE PIPE INVERT ELEVATIONS, ACCESS OPENING SIZES AND LOCATIONS, PIPE MATERIAL, PIPE DIAMETERS, AND PIPE LOCATIONS OF THE DRAWINGS DATED 3/18/2020. IN ADDITION YOU AGREE WITH THE GENERAL LAYOUT OF THE BASIN AND BASIN HEIGHT, MIN AND MAX COVER OVER THE SYSTEM, DELIVERY NOTES AND ALL SPECIFIC DESIGN ELEMENTS CONTAINED HEREIN. THE STRUCTURAL INTEGRITY OF THE SYSTEM IS THE RESPONSIBILITY OF STORMTRAP.



WHIRLIGIG STATION PARKING LOT IMPROVEMENTS
WILSON, NC

SHEET INDEX table with columns: PAGE, DESCRIPTION

StormTrap
1287 WINDHAM PARKWAY
ROMEDEVILLE, IL 60446
P:815-941-4549 / F:331-318-5347

ENGINEER INFORMATION:
BARTLETT ENGINEERING & SURVEYORS, PC
1906 NASH ST N
WILSON, NC
252-399-0704

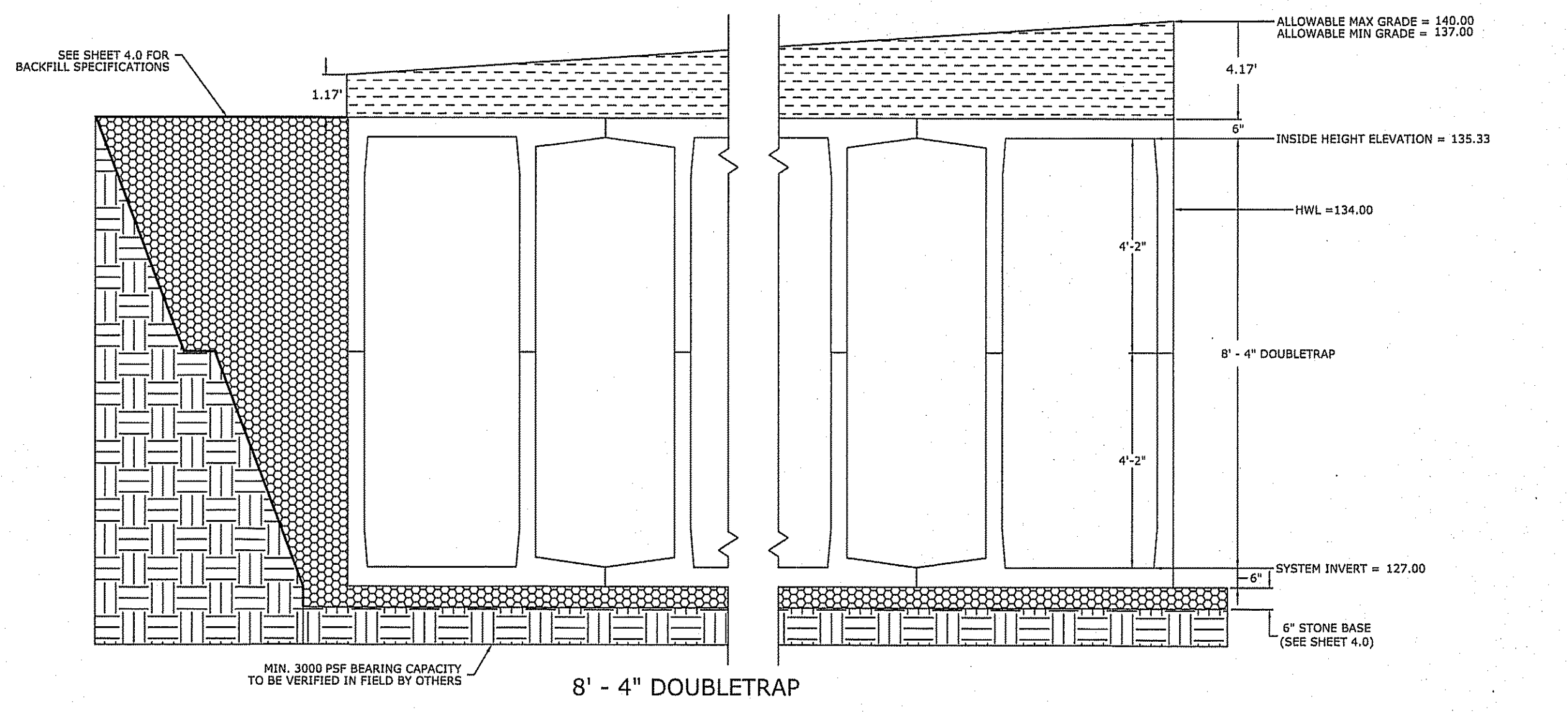
STRUCTURAL DESIGN LOADING CRITERIA
LIVE LOADING: AASHTO HS-20 HIGHWAY LOADING
GROUND WATER TABLE: 7' BELOW GRADE\*

STORMTRAP SYSTEM INFORMATION
FOREBAY/SEDIMENT AREA PROV: 2,628.06 SQUARE FEET
SAND FILTER AREA PROV: 6,602.28 SQUARE FEET

SITE SPECIFIC DESIGN CRITERIA
1. STORMTRAP UNITS SHALL BE MANUFACTURED AND INSTALLED ACCORDING TO SHOP DRAWINGS APPROVED BY THE INSTALLING CONTRACTOR AND ENGINEER OF RECORD.

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BILL OF MATERIALS table with columns: QTY, UNIT TYPE, DESCRIPTION, TOP WEIGHT, BASE WEIGHT

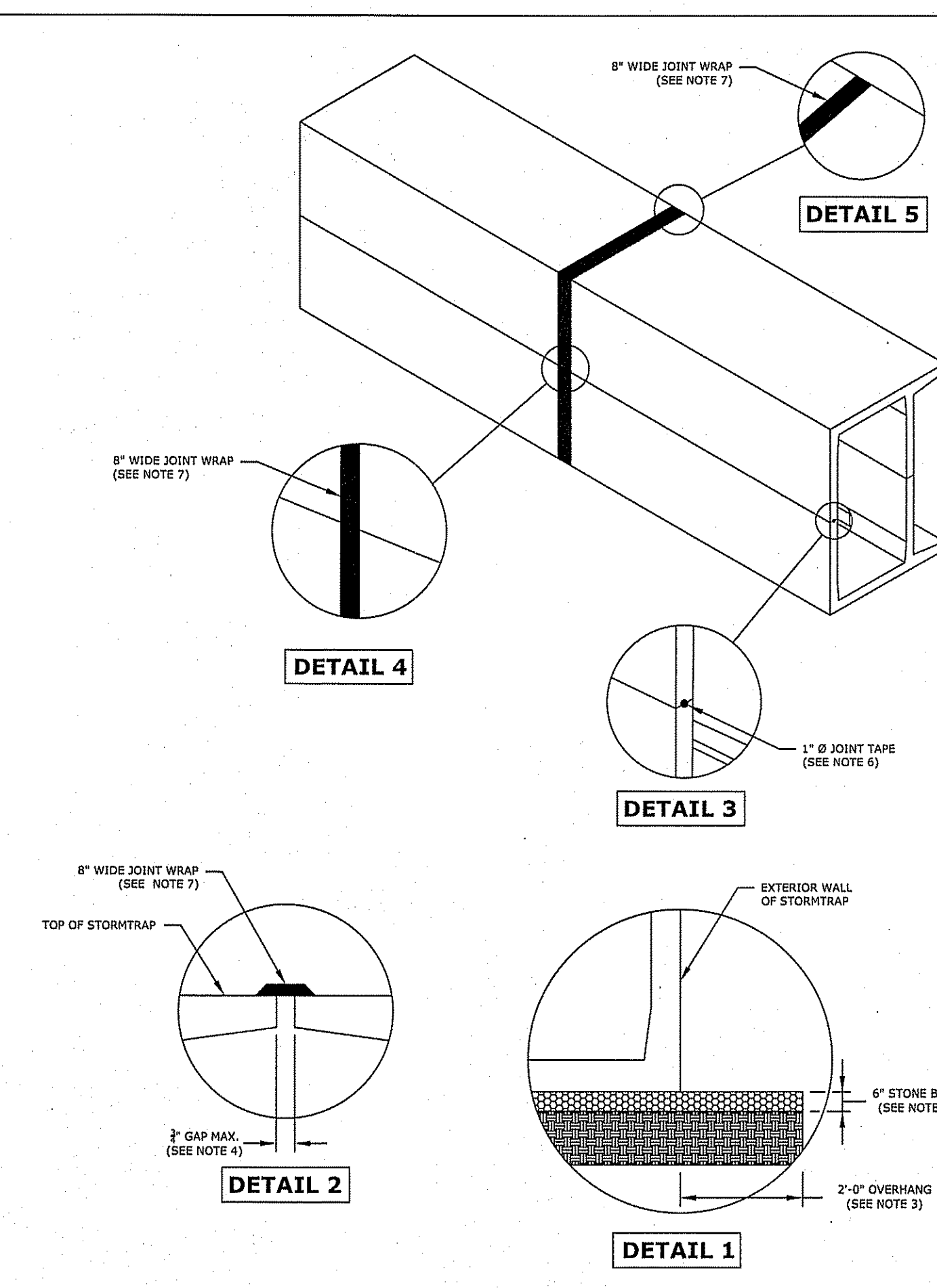
LOADING DISCLAIMER:
STORMTRAP IS NOT DESIGNED TO ACCEPT ANY ADDITIONAL LOADINGS FROM NEARBY STRUCTURES NEXT TO OR OVER THE TOP OF STORMTRAP.

DESIGN CRITERIA
ALLOWABLE MAX GRADE = 140.00
ALLOWABLE MIN GRADE = 137.00
INSIDE HEIGHT ELEVATION = 135.33
SYSTEM INVERT = 127.00

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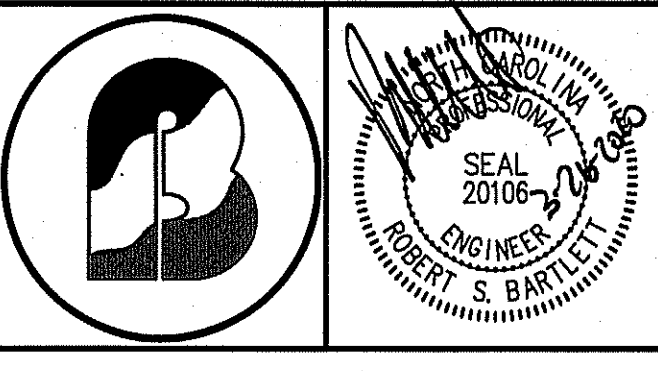
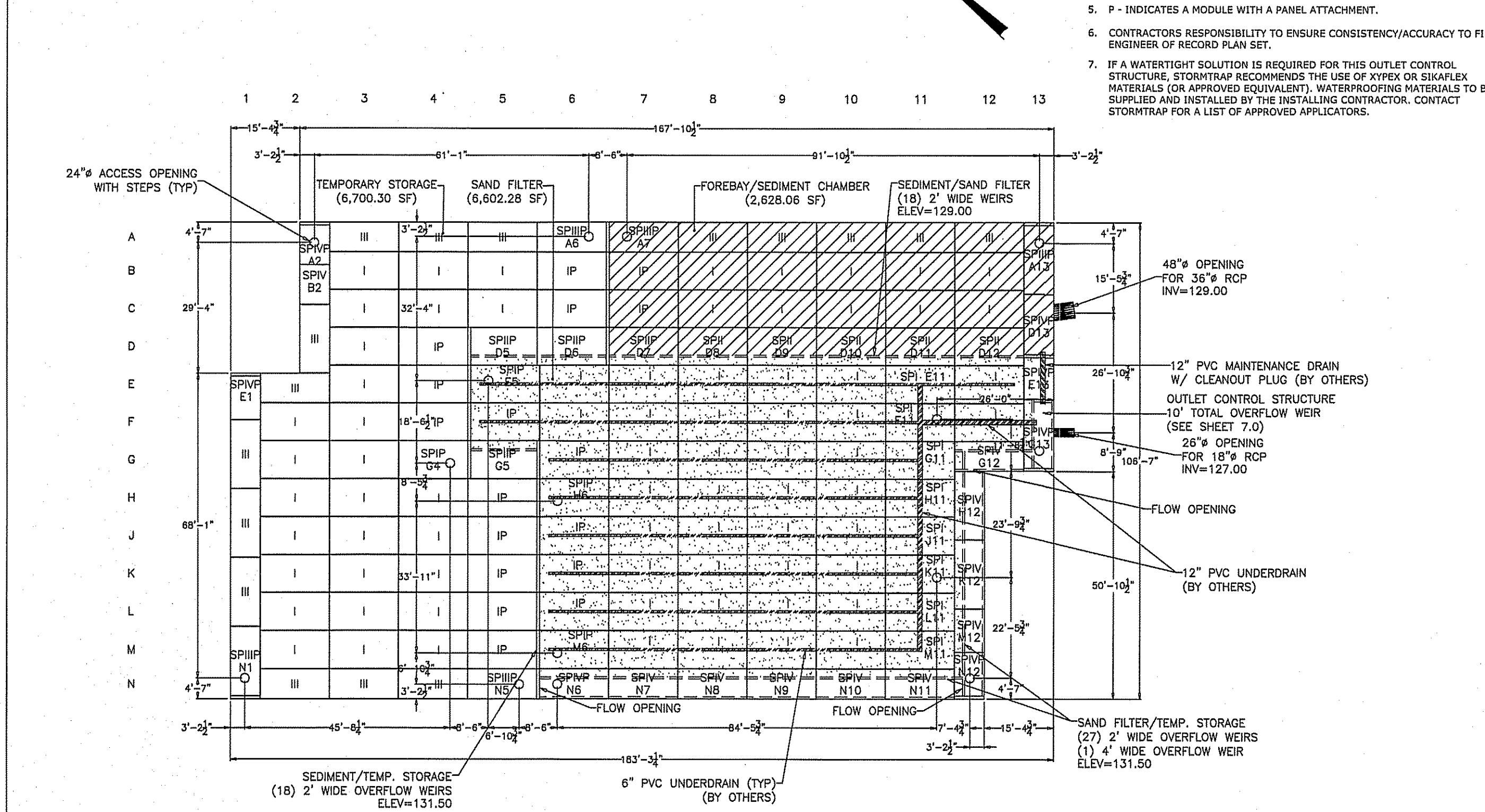
ENGINEER INFORMATION:
BARTLETT ENGINEERING & SURVEYORS, PC
1906 NASH ST N
WILSON, NC
252-399-0704

STORMTRAP INSTALLATION SPECIFICATIONS
1. STORMTRAP SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C891, STANDARD FOR INSTALLATION OF UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES.



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License No. C-1551

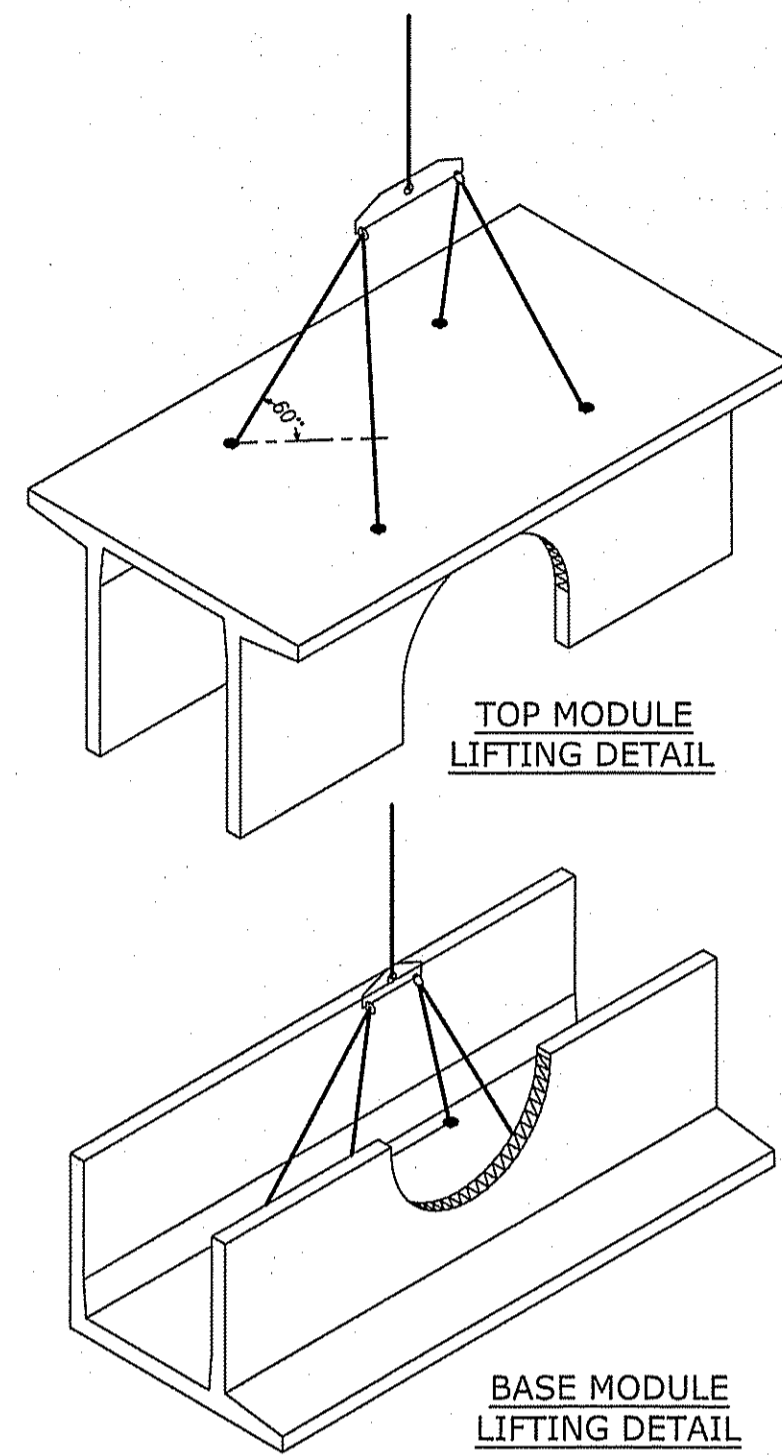
WHIRLIGIG STATION
PARKING LOT IMPROVEMENTS

Project information table with columns: DATE, SCALE, REVISIONS, CITY OF WILSON, NORTH CAROLINA, PIN #



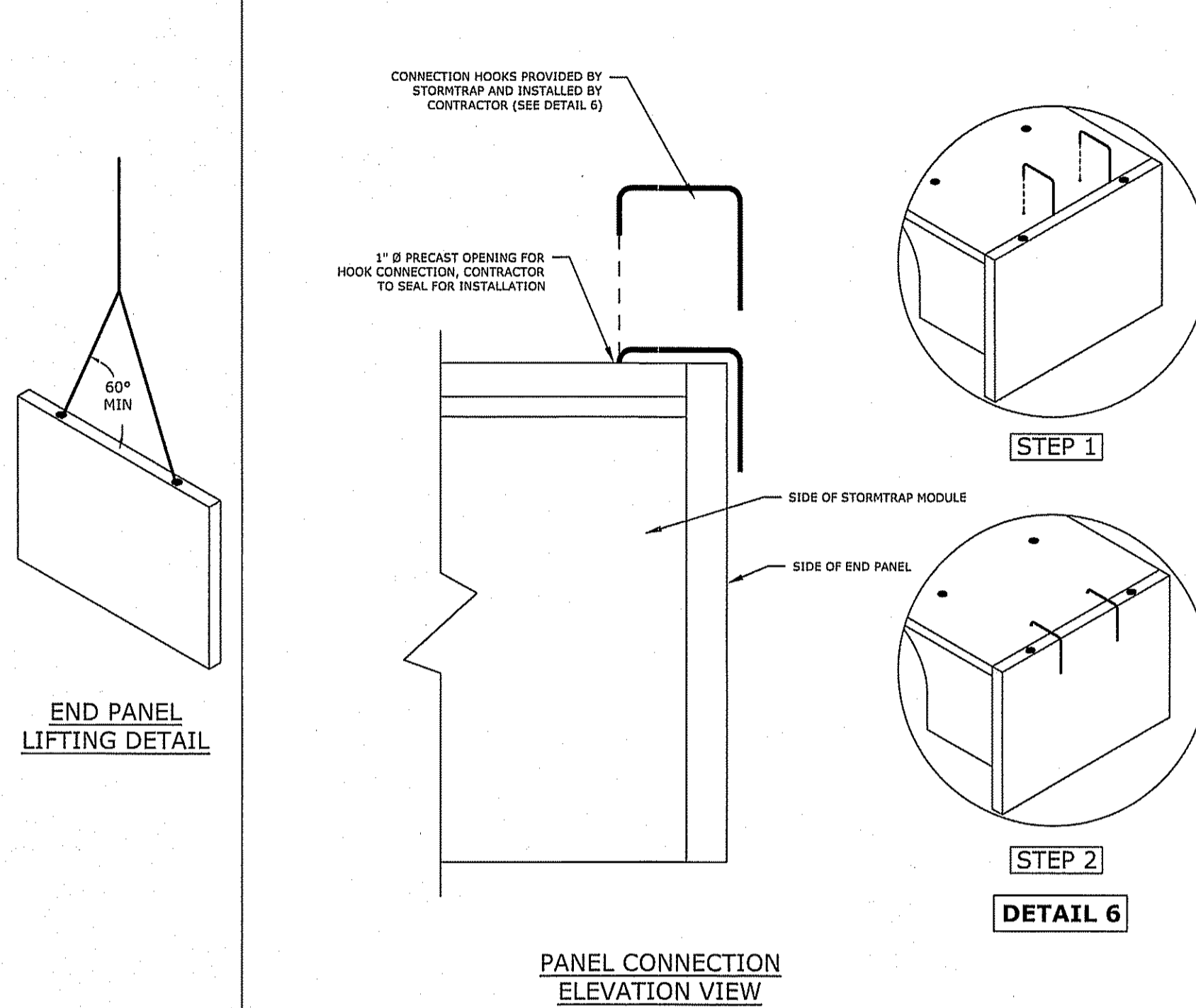
**STORMTRAP MODULE LIFTING INSTALLATION NOTES**

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL (4) CHAINS/CABLES ARE SECURED PROPERLY TO THE LIFTING ANCHORS AND IN EQUAL TENSION WHEN LIFTING THE STORMTRAP MODULE (SEE RECOMMENDATIONS 2 & 3).
- MINIMUM 7'-0" CHAIN/CABLE LENGTH TO BE USED TO LIFT STORMTRAP MODULES (SUPPLIED BY CONTRACTOR).
- CONTRACTOR TO ENSURE MINIMUM LIFTING ANGLE IS 60° FROM TOP SURFACE OF STORMTRAP MODULE. SEE DETAIL.



**END PANEL ERECTION/INSTALLATION NOTES**

- END PANELS WILL BE SUPPLIED TO CLOSE OFF OPEN ENDS OF ROWS.
- PANELS SHALL BE INSTALLED IN A TILT UP FASHION DIRECTLY ADJACENT TO OPEN END OF MODULE (REFER TO SHEET 2.0 FOR END PANEL LOCATIONS).
- CONNECTION HOOKS WILL BE SUPPLIED WITH END PANELS TO SECURELY CONNECT PANEL TO ADJACENT STORMTRAP MODULE (SEE PANEL CONNECTION ELEVATION VIEW).
- ONCE CONNECTION HOOK IS ATTACHED, LIFTING CLUTCHES MAY BE REMOVED.
- JOINT WRAP SHALL BE PLACED AROUND PERIMETER JOINT PANEL (SEE SHEET 3.0).



**StormTrap**

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**ENGINEER INFORMATION:**

BARTLETT ENGINEERING & SURVEYORS, PC  
1906 NASH ST N  
WILSON, NC  
252-399-0704

**PROJECT INFORMATION:**

WHIRLIGIG STATION  
PARKING LOT  
IMPROVEMENTS  
WILSON, NC

**CURRENT ISSUE DATE:**

3/18/2020

**ISSUED FOR:**

APPROVAL

**REVISIONS:**

REV	DATE	ISSUED FOR	DWN BY
1	3/18/2020	APPROVAL	JW
2	3/3/2020	PRELIMINARY	JW
1	2/3/2020	PRELIMINARY	JW

**SCALE:**

NTS

**SHEET TITLE:**

DOUBLETRAP  
INSTALLATION  
SPECIFICATIONS

**SHEET NUMBER:**

**3.1**

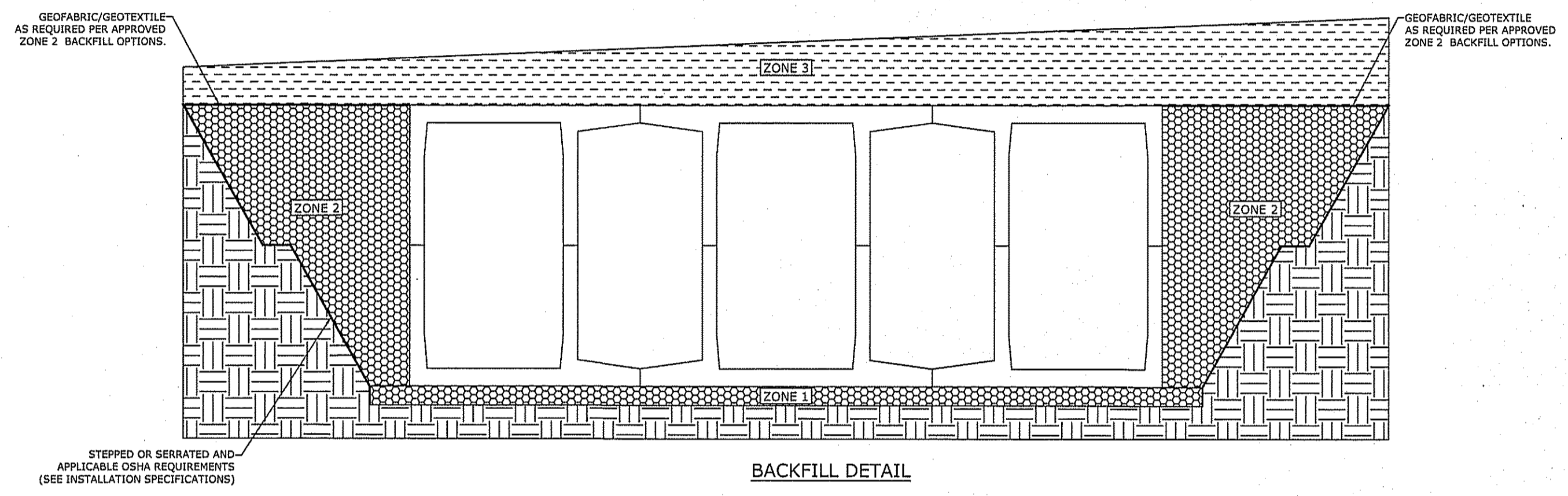
ZONE CHART		
ZONE	ZONE DESCRIPTIONS	REMARKS
ZONE 1	FOUNDATION AGGREGATE	#3 (1") STONE AGGREGATE (SEE NOTE 4 FOR DESCRIPTION)
ZONE 2	BACKFILL	UNIFIED SOILS CLASSIFICATION (GV, GP, SW, SP) OR SEE BELOW FOR APPROVED BACKFILL OPTIONS
ZONE 3	FINAL COVER OVERTOP	MATERIALS NOT TO EXCEED 120 PCF

FILL DEPTH	TRACK WIDTH	MAX VEHICLE WEIGHT (KIPS)	MAX GROUND PRESSURE
12"	12"	51.8	1690 psf
	18"	56.1	1719 psf
	24"	68.1	1111 psf
	36"	85.0	924 psf

NOTE: TRACK LENGTH NOT TO EXCEED 15'-4". ONLY TWO TRACKS PER VEHICLE.

**APPROVED ZONE 2 BACKFILL OPTIONS**

OPTION	REMARKS
1/2" STONE AGGREGATE	THE STONE AGGREGATE SHALL CONSIST OF CLEAN AND FREE DRAINING ANGULAR MATERIAL. THE SIZE OF THIS MATERIAL SHALL HAVE 100% PASSING THE 1" SIEVE WITH 0% TO 20% PASSING THE #8 SIEVE. THIS MATERIAL SHALL BE SEPARATED FROM NATIVE MATERIAL USING GEOTEXTILE AROUND THE PERIMETER OF THE BACKFILL (ASTM SIZE #37) AS DETERMINED BY THE GEOTECHNICAL ENGINEER.
SAND	IMPORTED PURE SAND IS PERMITTED TO BE USED AS BACKFILL IF IT IS CLEAN AND FREE DRAINING. THE SAND USED FOR BACKFILLING SHALL HAVE LESS THAN 40% PASSING #40 SIEVE AND LESS THAN 5% PASSING #200 SIEVE. THIS MATERIAL SHALL BE SEPARATED FROM NATIVE MATERIAL USING GEOTEXTILE AROUND THE PERIMETER OF THE SAND BACKFILL.
CRUSHED CONCRETE AGGREGATE	CLEAN, FREE DRAINING CRUSHED CONCRETE AGGREGATE MATERIAL CAN BE USED AS BACKFILL FOR STORMTRAP'S MODULES. THE SIZE OF THIS MATERIAL SHALL HAVE 100% PASSING THE 1" SIEVE WITH 0% TO 20% PASSING THE #40 SIEVE. THIS MATERIAL SHALL BE SEPARATED FROM NATIVE MATERIAL USING GEOTEXTILE AROUND THE PERIMETER OF THE BACKFILL.
ROAD PACK	STONE AGGREGATE 100% PASSING THE 1-1/2" SIEVE WITH LESS THAN 12% PASSING THE #200 SIEVE (ASTM SIZE #407), GEOTEXTILE AS PER GEOTECHNICAL ENGINEER RECOMMENDATION.



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1906 NASH ST N  
WILSON, NC  
252-399-0704

**PROJECT INFORMATION:**

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PARKING LOT  
IMPROVEMENTS  
WILSON, NC

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3/18/2020

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APPROVAL

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REV	DATE	ISSUED FOR	DWN BY
1	3/18/2020	APPROVAL	JW
2	3/3/2020	PRELIMINARY	JW
1	2/3/2020	PRELIMINARY	JW

**SCALE:**

NTS

**SHEET TITLE:**

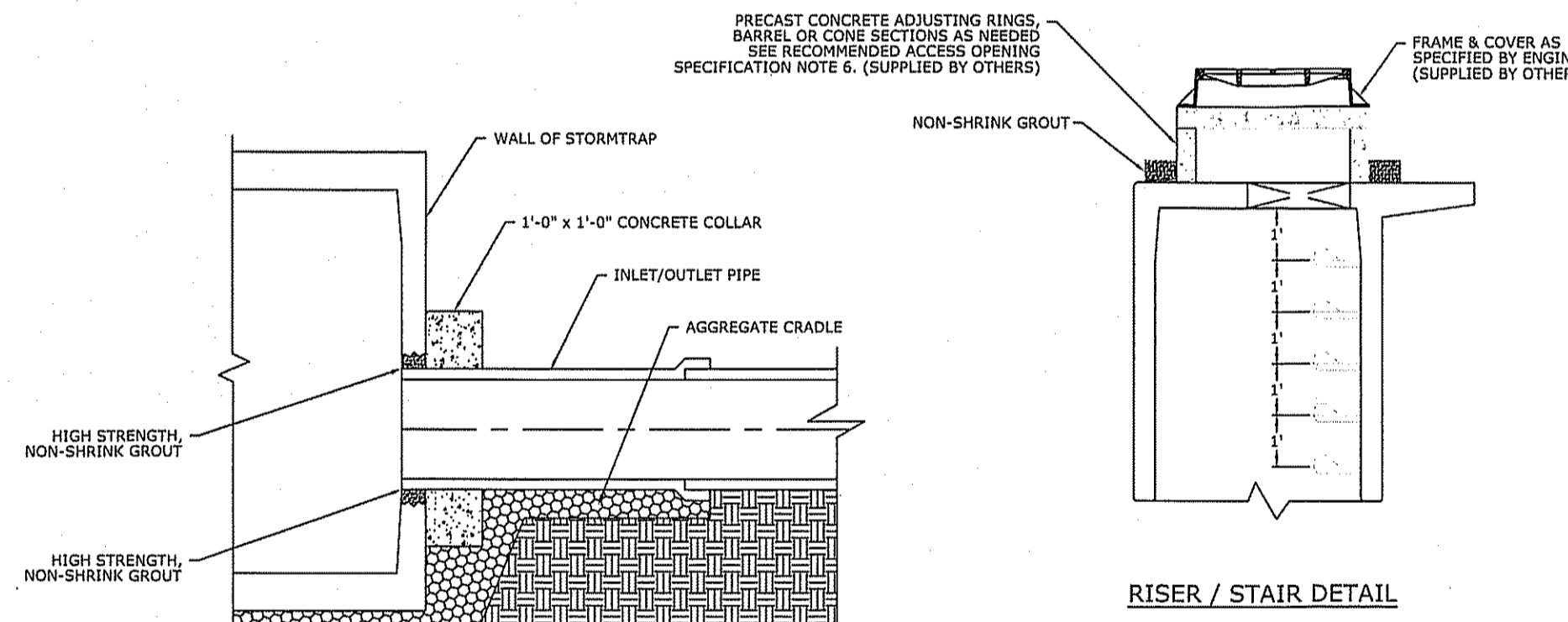
DOUBLETRAP  
BACKFILL  
SPECIFICATIONS

**SHEET NUMBER:**

**4.0**

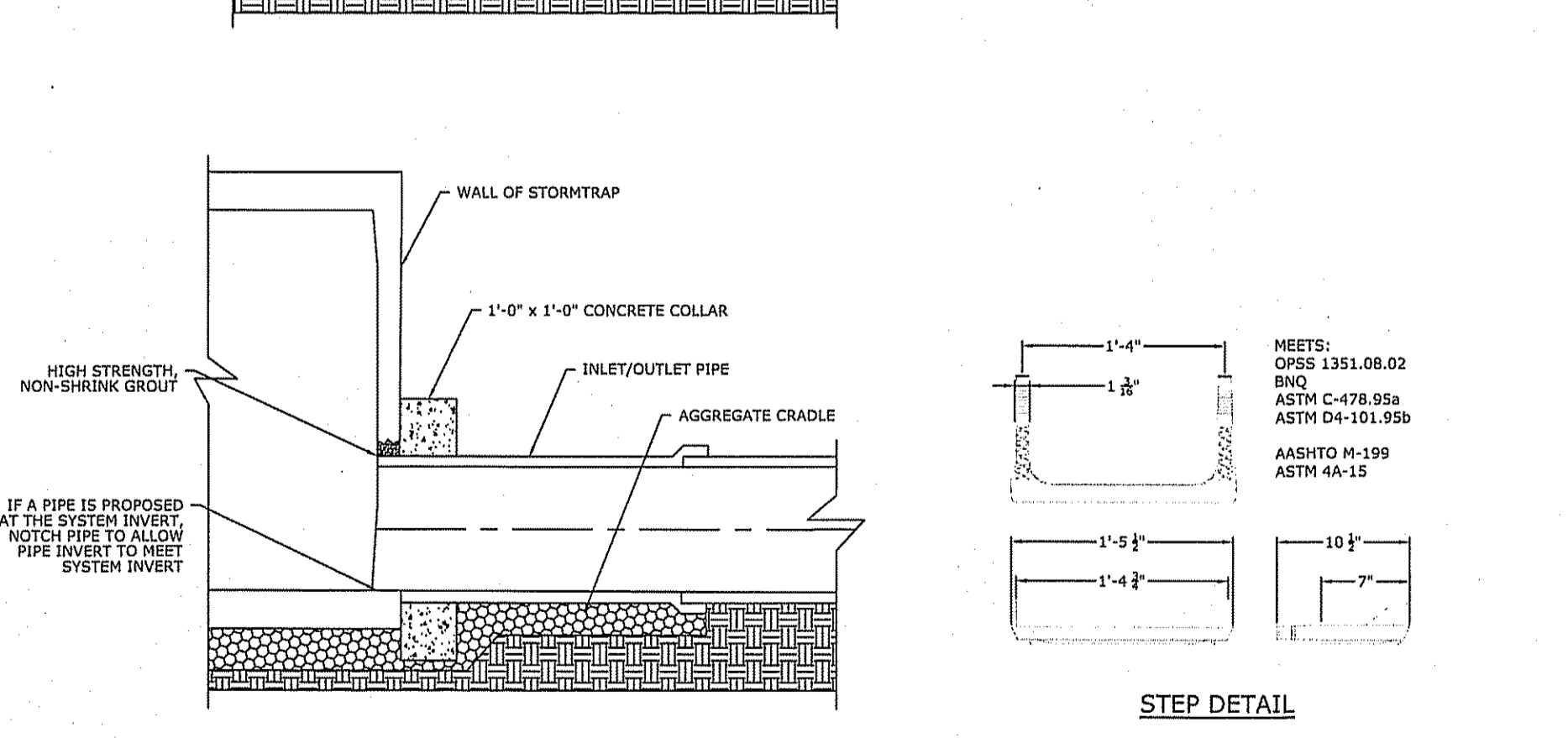
**RECOMMENDED ACCESS OPENING SPECIFICATION**

- A TYPICAL ACCESS OPENING FOR THE STORMTRAP SYSTEM ARE 2'-0" IN DIAMETER. ACCESS OPENINGS LARGER THAN 3'-0" IN DIAMETER NEED TO BE APPROVED BY STORMTRAP. ALL OPENINGS MUST RETAIN AT LEAST 1'-0" OF CLEARANCE FROM THE END OF THE STORMTRAP MODULE UNLESS NOTED OTHERWISE. ALL ACCESS OPENINGS TO BE LOCATED ON INSIDE LEG UNLESS OTHERWISE SPECIFIED.
- PLASTIC COATED STEEL STEPS PRODUCED BY M.A. INDUSTRIES PART #P3-PC OR APPROVED EQUAL (SEE STEP DETAIL) ARE PROVIDED INSIDE ANY MODULE WHERE DEEMED NECESSARY. THE HIGHEST STEP IN THE MODULE IS TO BE PLACED A DISTANCE OF 1'-0" FROM THE INSIDE EDGE OF THE STORMTRAP MODULES. ALL ENSUING STEPS SHALL BE PLACED AT A DISTANCE BETWEEN 10" MIN AND 14" MAX BETWEEN THEM. STEPS MAY BE MOVED OR ALTERED TO AVOID OPENINGS OR OTHER IRREGULARITIES IN THE MODULE.
- STORMTRAP LIFTING INSERTS MAY BE RELOCATED TO AVOID INTERFERENCE WITH ACCESS OPENINGS OR THE CENTER OF GRAVITY OF THE MODULE AS NEEDED.
- STORMTRAP ACCESS OPENINGS MAY BE RELOCATED TO AVOID INTERFERENCE WITH INLET AND/OR OUTLET PIPE OPENINGS SO PLACEMENT OF STEPS IS ATTAINABLE.
- ACCESS OPENINGS SHOULD BE LOCATED IN ORDER TO MEET THE APPROPRIATE MUNICIPAL REQUIREMENTS. STORMTRAP RECOMMENDS AT LEAST TWO ACCESS OPENINGS PER SYSTEM FOR ACCESS AND INSPECTION.
- USE PRECAST ADJUSTING RINGS AS NEEDED TO MEET GRADE. STORMTRAP RECOMMENDS FOR COVER OVER 2" TO USE PRECAST BARREL OR CONE SECTIONS (PROVIDED BY OTHERS).



**RECOMMENDED PIPE OPENING SPECIFICATION**

- MINIMUM EDGE DISTANCE FOR AN OPENING ON THE OUTSIDE WALL SHALL BE NO LESS THAN 1'-0".
- MAXIMUM OPENING SIZE TO BE DETERMINED BY THE MODULE HEIGHT. PREFERRED OPENING SIZE IS 36" OR LESS. ANY OPENING NEEDED THAT DOES NOT FIT THIS CRITERIA SHALL BE BROUGHT TO THE ATTENTION OF STORMTRAP FOR REVIEW.
- CONNECTING PIPES SHALL BE INSTALLED WITH A 1'-0" CONCRETE COLLAR, AND AN AGGREGATE CRADLE FOR AT LEAST ONE PIPE LENGTH (SEE PIPE CONNECTION DETAIL). A STRUCTURAL GRADE CONCRETE OR HIGH STRENGTH, NON-SHRINK GROUT WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI SHALL BE USED.
- THE ANNULAR SPACE BETWEEN THE PIPE AND THE HOLE SHALL BE FILLED WITH HIGH STRENGTH NON-SHRINK GROUT.



**RECOMMENDED PIPE INSTALLATION INSTRUCTIONS**

- CLEAN AND LIGHTLY LUBRICATE ALL OF THE PIPE TO BE INSERTED INTO STORMTRAP.
- IF PIPE IS CUT, CARE SHOULD BE TAKEN TO ALLOW NO SHARP EDGES. BEVEL AND LUBRICATE LEAD END OF PIPE.
- ALIGN CENTER OF PIPE TO CORRECT ELEVATION AND INSERT INTO OPENING.

NOTE: ALL ANCILLARY PRODUCTS/SPECIFICATIONS RECOMMENDED AND SHOWN ON THIS SHEET ARE RECOMMENDATIONS ONLY AND SUBJECT TO CHANGE PER THE INSTALLING CONTRACTOR AND/OR PER LOCAL MUNICIPAL CODE/REQUIREMENTS.

**StormTrap**

1287 WINDHAM PARKWAY  
ROMEOVILLE, IL 60446  
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**ENGINEER INFORMATION:**

BARTLETT ENGINEERING & SURVEYORS, PC  
1906 NASH ST N  
WILSON, NC  
252-399-0704

**PROJECT INFORMATION:**

WHIRLIGIG STATION  
PARKING LOT  
IMPROVEMENTS  
WILSON, NC

**CURRENT ISSUE DATE:**

3/18/2020

**ISSUED FOR:**

APPROVAL

**REVISIONS:**

REV	DATE	ISSUED FOR	DWN BY
1	3/18/2020	APPROVAL	JW
2	3/3/2020	PRELIMINARY	JW
1	2/3/2020	PRELIMINARY	JW

**SCALE:**

NTS

**SHEET TITLE:**

RECOMMENDED  
PIPE / ACCESS  
OPENING  
SPECIFICATIONS

**SHEET NUMBER:**

**5.0**

**StormTrap**

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1	2/3/2020	PRELIMINARY	JW

**SCALE:**

NTS

**SHEET TITLE:**

RECOMMENDED  
PIPE / ACCESS  
OPENING  
SPECIFICATIONS

**SHEET NUMBER:**

**5.0**

- NOTES:
- OPENING LOCATIONS AND SHAPES MAY VARY.
  - SP - INDICATES A MODULE WITH MODIFICATIONS.
  - P - INDICATES A MODULE WITH A PANEL ATTACHMENT.
  - POCKET WINDOW OPENINGS ARE OPTIONAL.

**StormTrap**

1287 WINDHAM PARKWAY  
ROMEOVILLE, IL 60446  
P: 815-941-4549 / F: 331-318-5347

**ENGINEER INFORMATION:**

BARTLETT ENGINEERING & SURVEYORS, PC  
1906 NASH ST N  
WILSON, NC  
252-399-0704

**PROJECT INFORMATION:**

WHIRLIGIG STATION  
PARKING LOT  
IMPROVEMENTS  
WILSON, NC

**CURRENT ISSUE DATE:**

3/18/2020

**ISSUED FOR:**

APPROVAL

**REVISIONS:**

REV	DATE	ISSUED FOR	DWN BY
1	3/18/2020	APPROVAL	JW
2	3/3/2020	PRELIMINARY	JW
1	2/3/2020	PRELIMINARY	JW

**SCALE:**

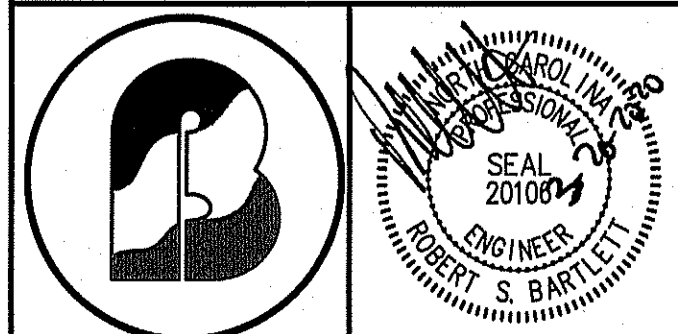
NTS

**SHEET TITLE:**

DOUBLETRAP  
MODULE TYPES

**SHEET NUMBER:**

**6.0**



**BARTLETT**  
ENGINEERING & SURVEYING, PC

1906 NASH STREET NORTH  
WILSON, N.C. 27893-1726  
License No. C-1551

TELE: (252) 399-0704  
FAX: (252) 399-0804  
www.bartlett.us.com

**SCM DETAILS**

**WHIRLIGIG STATION**  
PARKING LOT IMPROVEMENTS

DATE: MAR. 2020	PROJECT: 18-501
SCALE(HORIZ): AS SHOWN	CLIENT CODE: WC
SCALE(VERT): NA	CADFILE: 18501SP3
REVISIONS:	FIELD BOOK:
	DRAWN BY: LR
	SURVEY BY: TB/DB

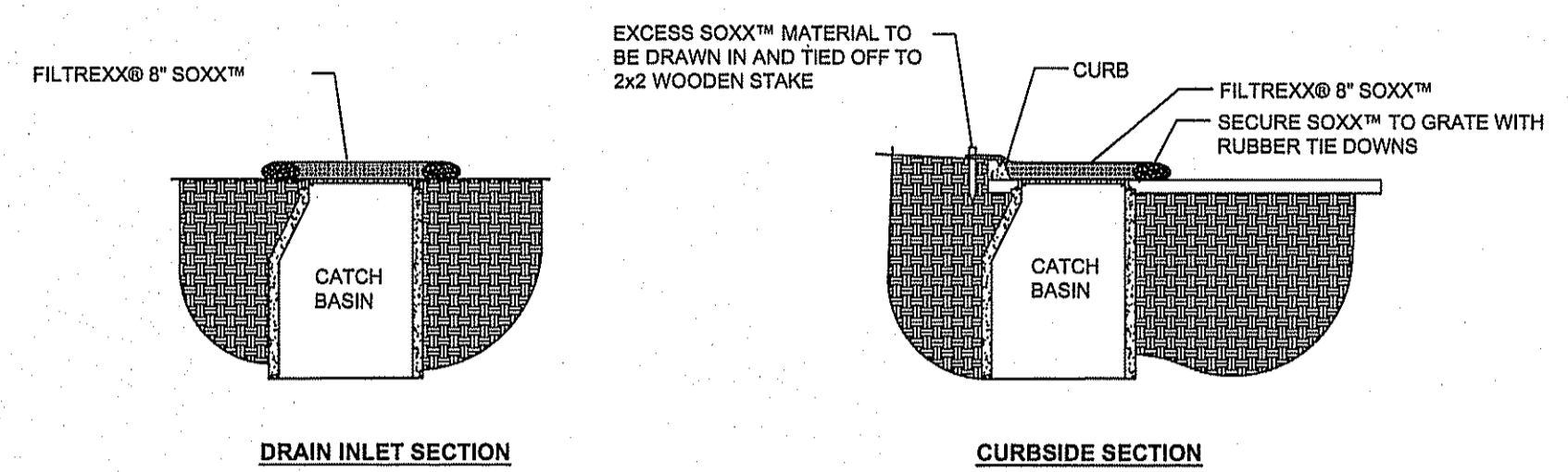
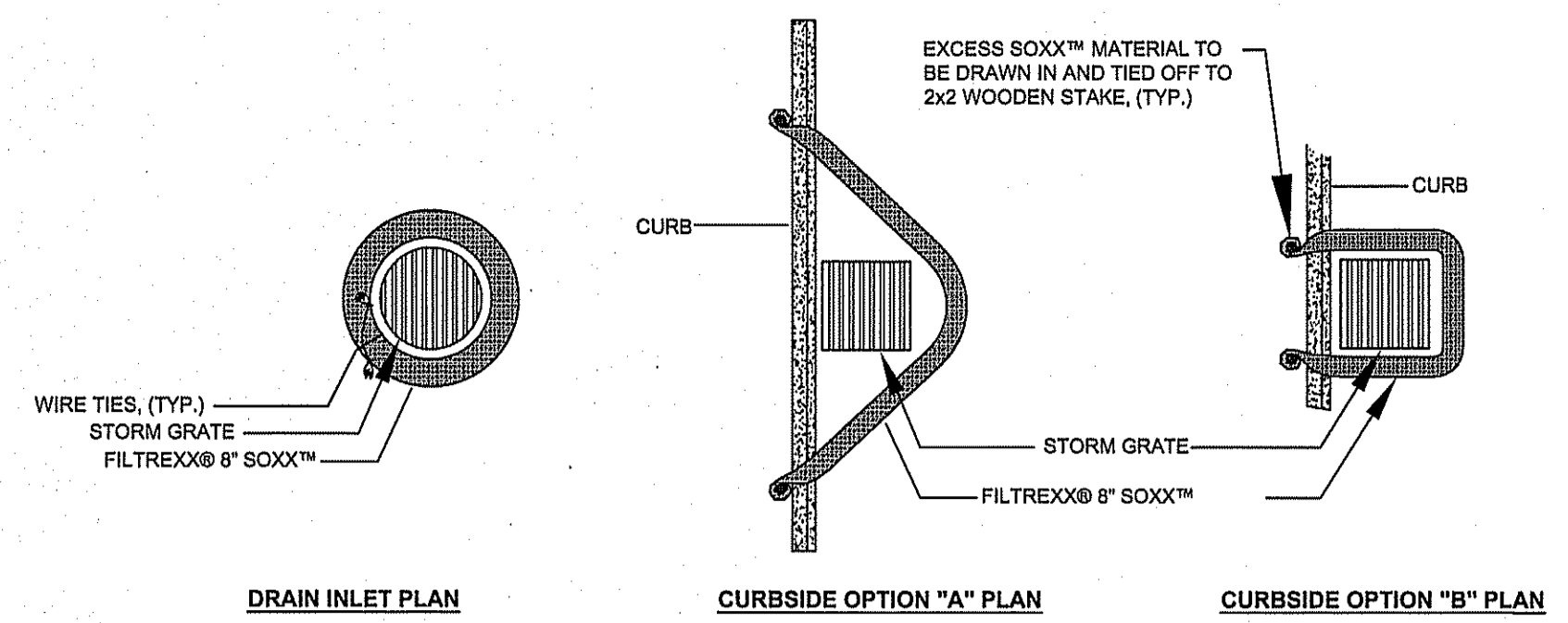
CITY OF WILSON	WILSON COUNTY
NORTH CAROLINA	ZONE: CCMX
PIN #	SHEET DT4

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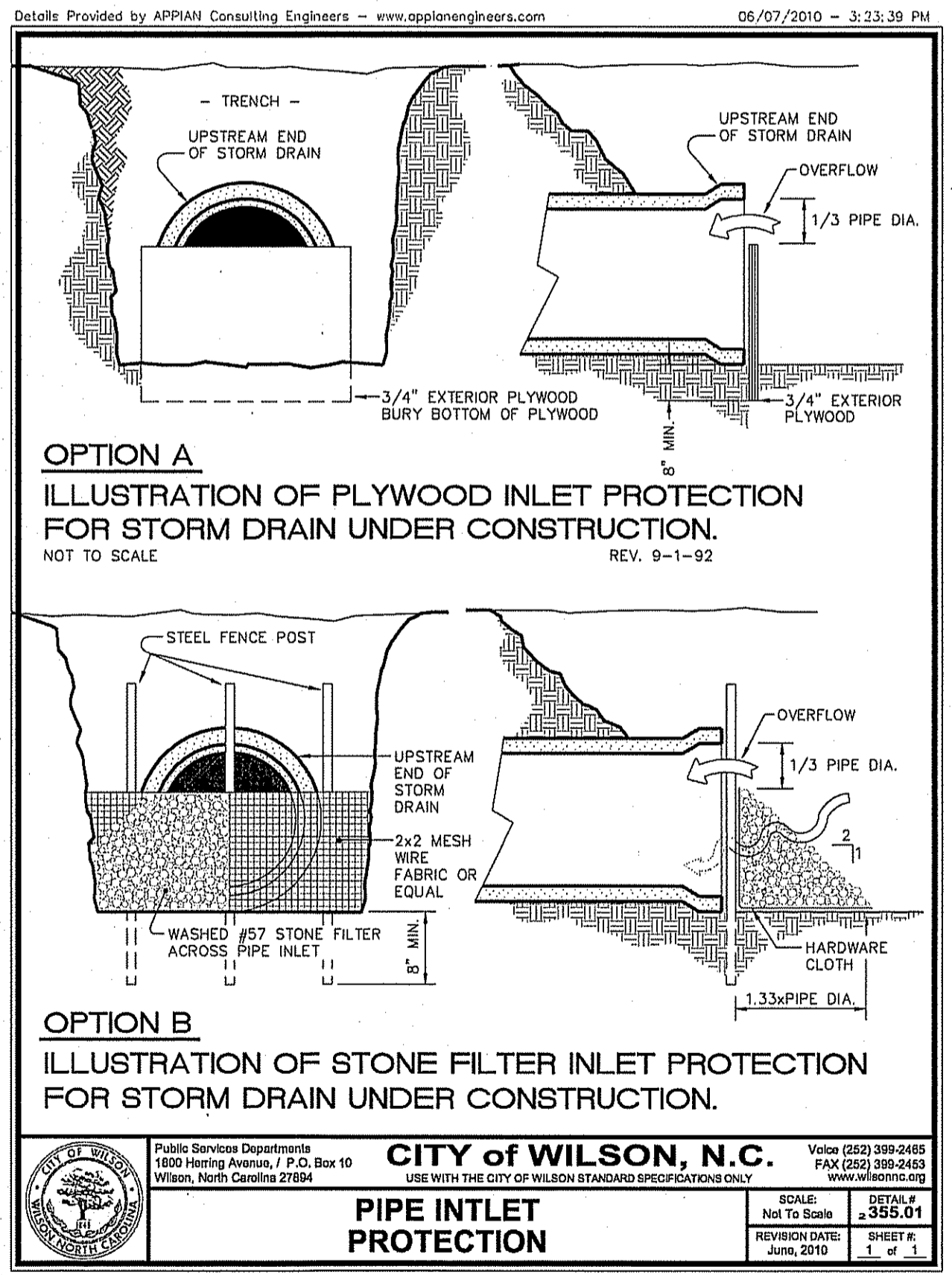




- NOTES:
1. ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS.
  2. FILTER MEDIA™ FILL TO MEET APPLICATION REQUIREMENTS.
  3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

**FILTREXX® INLET PROTECTION**

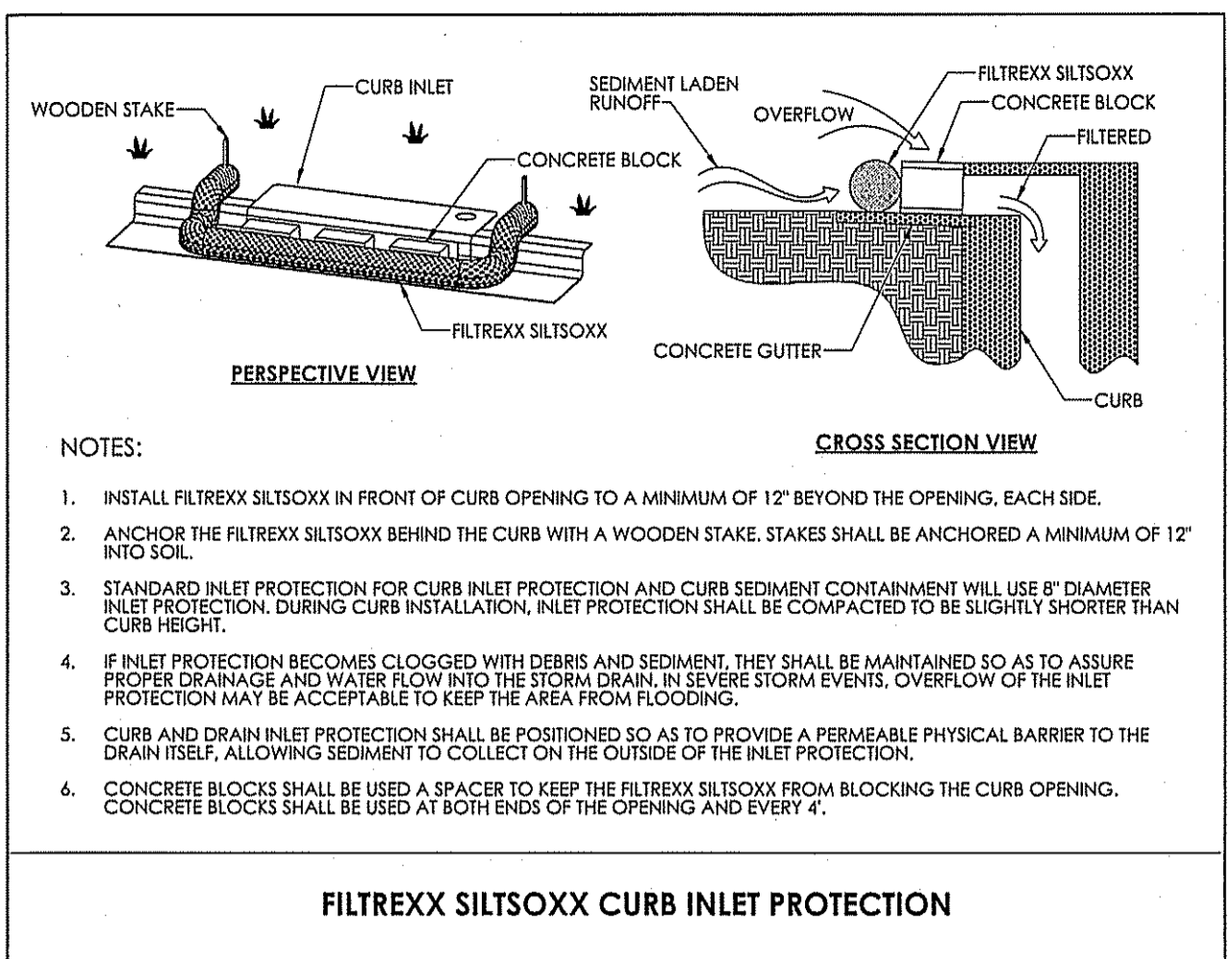
NTS



Public Services Department  
1802 Herring Avenue, P.O. Box 10  
Wilson, North Carolina 27894

**CITY OF WILSON, N.C.**  
USE WITH THE CITY OF WILSON STANDARD SPECIFICATIONS ONLY

SCALE: Not to Scale  
REVISION DATE: June, 2010  
SHEET # 1 of 1



- NOTES:
1. INSTALL FILTREXX SILTSLOXX IN FRONT OF CURB OPENING TO A MINIMUM OF 12" BEYOND THE OPENING, EACH SIDE.
  2. ANCHOR THE FILTREXX SILTSLOXX BEHIND THE CURB WITH A WOODEN STAKE. STAKES SHALL BE ANCHORED A MINIMUM OF 12" INTO SOIL.
  3. STANDARD INLET PROTECTION FOR CURB INLET PROTECTION AND CURB SEDIMENT CONTAINMENT WILL USE 6" DIAMETER INLET PROTECTION. DURING CURB INSTALLATION, INLET PROTECTION SHALL BE COMPACTED TO BE SLIGHTLY SHORTER THAN CURB HEIGHT.
  4. IF INLET PROTECTION BECOMES CLOGGED WITH DEBRIS AND SEDIMENT, THEY SHALL BE MAINTAINED SO AS TO ASSURE PROPER DRAINAGE AND WATER FLOW INTO THE STORM DRAIN. IN SEVERE STORM EVENTS, OVERFLOW OF THE INLET PROTECTION MAY BE ACCEPTABLE TO KEEP THE AREA FROM FLOODING.
  5. CURB AND DRAIN INLET PROTECTION SHALL BE POSITIONED SO AS TO PROVIDE A REMEABLE PHYSICAL BARRIER TO THE DRAIN (USE, ALLOWING SEDIMENT TO COLLECT ON THE OUTSIDE OF THE INLET PROTECTION).
  6. CONCRETE BLOCKS SHALL BE USED AS SPACERS TO KEEP THE FILTREXX SILTSLOXX FROM BLOCKING THE CURB OPENING. CONCRETE BLOCKS SHALL BE USED AT BOTH ENDS OF THE OPENING AND EVERY 4'.

**FILTREXX SILTSLOXX CURB INLET PROTECTION**

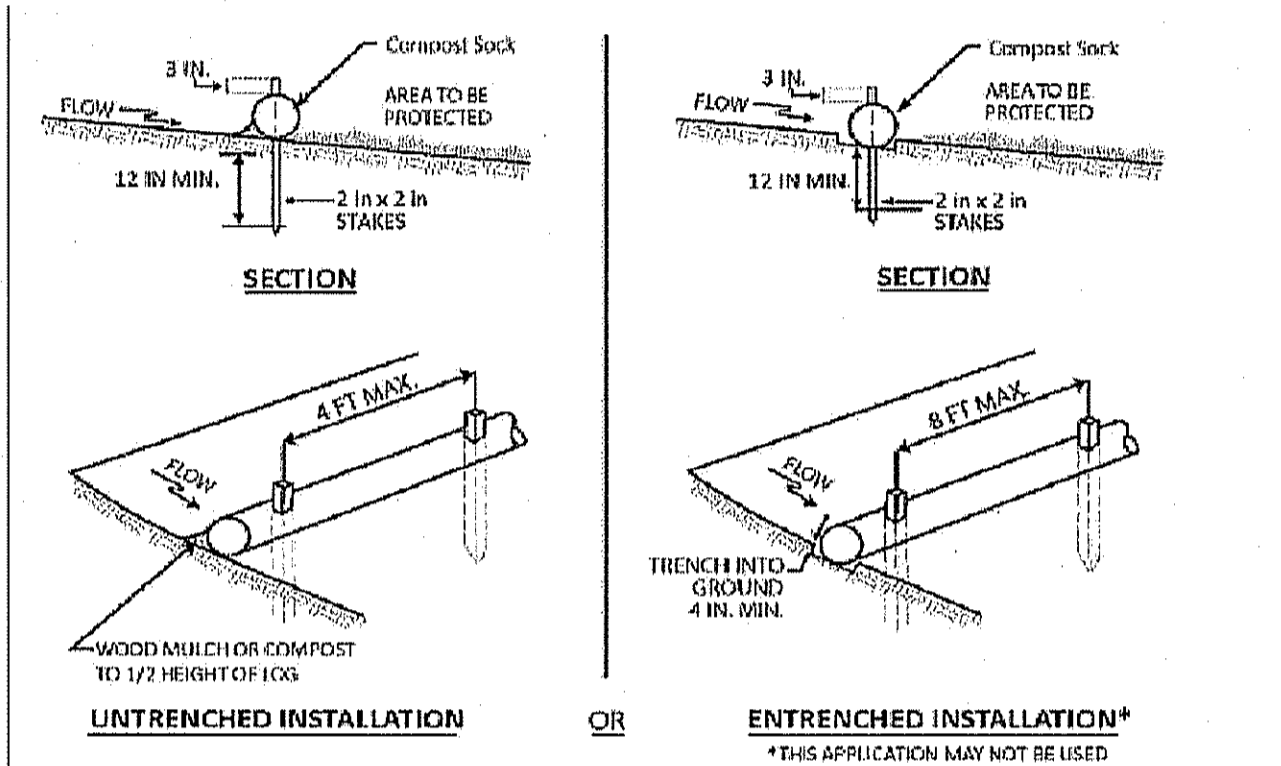


Figure 6.66b Compost Sock Installation

Maryland Standards and Specifications for Soil Erosion and Sediment Control, 2011, Maryland Department of Environment, Water Management Administration

- CONSTRUCTION SPECIFICATION:
1. MATERIALS USED IN THE COMPOST SOCK MUST MEET THE SPECIFICATIONS OUTLINED IN THE NO EROSION CONTROL AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL FOR COMPOST SOCKS AND COMPOST BLANKETS.
  2. COMPOST SOCKS SHOULD BE LOCATED AS SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLAN.
  3. PRIOR TO INSTALLATION, CLEAR ALL OBSTRUCTIONS INCLUDING ROCKS, CLODS, AND OTHER DEBRIS GREATER THAN ONE INCH THAT MAY INTERFERE WITH PROPER FUNCTION OF THE COMPOST SOCK.
  4. COMPOST SOCKS SHOULD BE INSTALLED PARALLEL TO THE TOE OF A GRADED SLOPE, A MINIMUM OF 10 FEET BEYOND THE TOE OF THE SLOPE. SOCKS LOCATED BELOW FLAT AREAS SHOULD BE LOCATED AT THE EDGE OF THE LAND-DISTURBANCE. THE ENDS OF THE SOCKS SHOULD BE TURNED SLIGHTLY UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE END OF THE SOCKS.
  5. FILL SOCK NETTING UNIFORMLY WITH COMPOST TO THE DESIRED LENGTH SUCH THAT LOGS DO NOT DEFORM. OR A MAXIMUM INTERVAL OF 8 FEET IF THE SOCK IS PLACED IN A 4 INCH TRENCH. THE STAKES SHOULD BE DRIVEN TO A MINIMUM DEPTH OF 12 INCHES, WITH A MINIMUM OF 3 INCHES PROTRUDING ABOVE THE COMPOST SOCK.
  6. IN THE EVENT STAKING IS NOT POSSIBLE (i.e. WHEN SOCKS ARE USED ON PAVEMENT) HEAVY CONCRETE BLOCKS SHALL BE USED BEHIND THE SOCK TO HOLD IT IN PLACE DURING RUNOFF EVENTS.
  7. IF THE COMPOST SOCK IS TO BE LEFT AS PART OF THE NATURAL LANDSCAPE, IT MAY BE SEEDED AT THE TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION USING THE SEEDING SPECIFICATION IN THE EROSION AND SEDIMENTATION CONTROL PLAN.
  8. COMPOST SOCKS ARE NOT TO BE PERENNIAL OR INTERMITTENT STREAMS.

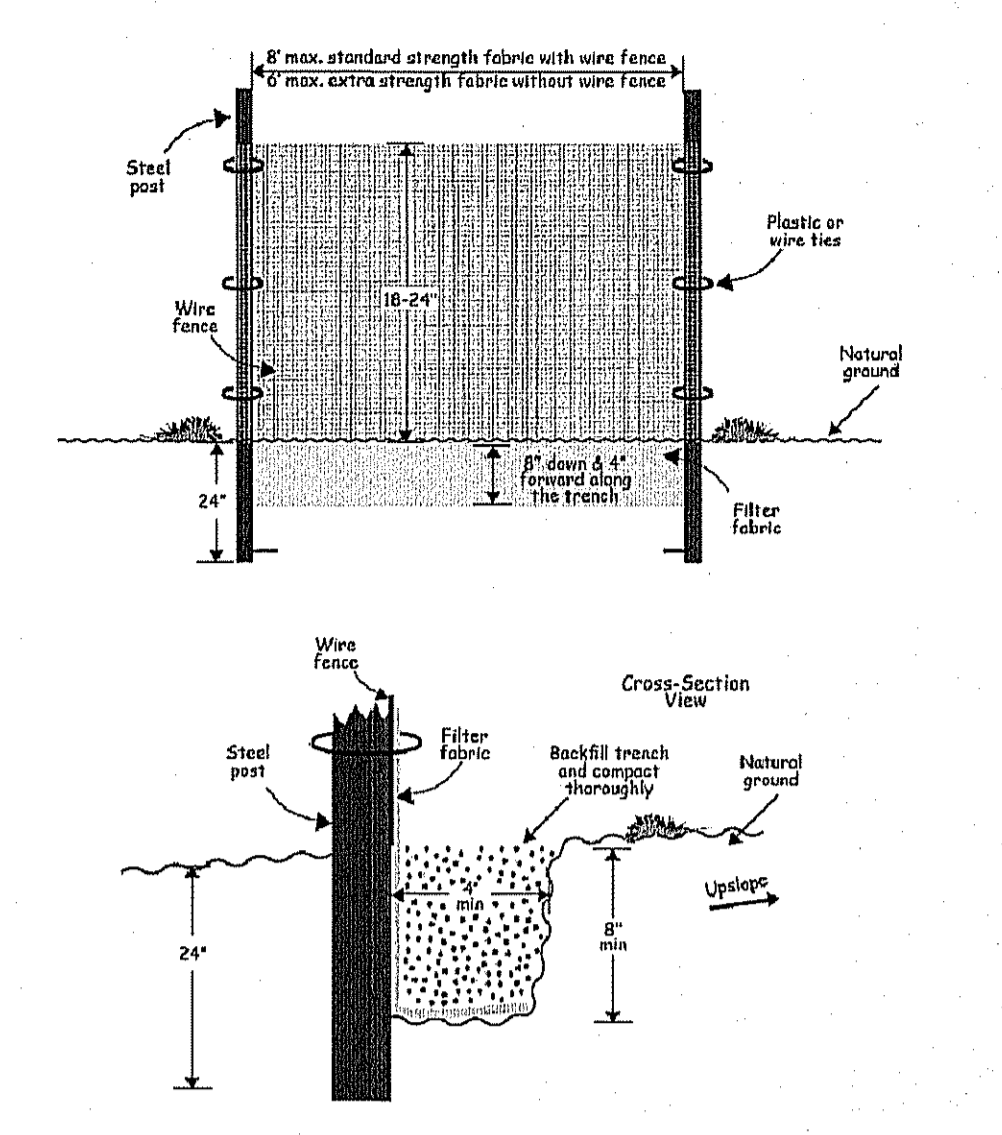
MAINTENANCE:

INSPECT COMPOST SOCKS WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER). REMOVE ACCUMULATED SEDIMENT AND ANY DEBRIS. THE COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN. IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OF A DIFFERENT MEASURE. THE SOCK NEEDS TO BE REINSTALLED IF UNDEMINISHED OR DISLOADED. THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY ESTABLISHED.

DISPOSAL/RECYCLING:

COMPOST MEDIA IS A COMPOSTED ORGANIC PRODUCT RECYCLED AND MANUFACTURED FROM LOCALLY GENERATED ORGANIC, NATURAL, AND BIOLOGICALLY BASED MATERIALS. ONCE ALL SOIL HAS BEEN STABILIZED AND CONSTRUCTION ACTIVITY HAS BEEN COMPLETED, THE COMPOST MEDIA MAY BE DISPERSED WITH A LAWMOWER, BULLDOZER OR SIMILAR DEVICE AND MAY BE INCORPORATED INTO THE SOIL AS AN AMENDMENT OR LEFT ON THE SOIL SURFACE TO AID IN PERMANENT SEDIMENT CONTROL. LEAVING THE COMPOST MEDIA ON SITE REDUCES REMOVAL AND DISPOSAL COSTS COMPARED TO OTHER SEDIMENT CONTROL DEVICES. THE MESH NETTING MATERIAL WILL BE EXTRACTED FROM THE MEDIA AND DISPOSED OF PROPERLY. THE PHOTODEGRADABLE MESH NETTING MATERIAL WILL DEGRADE IN 2 TO 5 YEARS IF LEFT ON SITE. BIODEGRADABLE MESH NETTING MATERIAL IS AVAILABLE AND DOES NOT NEED TO BE EXTRACTED AND DISPOSED OF, AS IT WILL COMPLETELY DECOMPOSE IN APPROXIMATELY 6 TO 12 MONTHS. USING BIODEGRADABLE COMPOST SOCKS COMPLETELY ELIMINATES THE NEED AND COST OF REMOVAL AND DISPOSAL.

**COMPOST SOCK**  
NO SCALE



**SILTS FENCE DETAIL**  
NO SCALE

- INSTALLATION SPECIFICATIONS
1. THE BASE OF BOTH END POSTS SHOULD BE AT LEAST ONE FOOT HIGHER THAN THE MIDDLE OF THE FENCE. CHECK WITH A LEVEL IF NECESSARY.
  2. INSTALL POSTS 4 FEET APART IN CRITICAL AREAS AND 6 FEET APART ON STANDARD APPLICATIONS.
  3. INSTALL POSTS 2 FEET DEEP ON THE DOWNSTREAM SIDE OF THE SILTS FENCE, AND AS CLOSE AS POSSIBLE TO THE FABRIC. ENABLING POSTS TO SUPPORT THE FABRIC FROM UPSTREAM WATER PRESSURE.
  4. INSTALL POSTS WITH THE NIPPLES FACING AWAY FROM THE SILTS FABRIC.
  5. ATTACH THE FABRIC TO EACH POST WITH THREE TIES, ALL SPACED WITHIN THE TOP 8 INCHES OF THE FABRIC. ATTACH EACH TIE DIAGONALLY AT 45 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 1 INCH VERTICALLY APART. ALSO, EACH TIE SHOULD BE POSITIONED TO HANG ON A POST NIPPLE WHEN TIGHTENED TO PREVENT SAGGING.
  6. WRAP APPROXIMATELY 6 INCHES OF FABRIC AROUND THE END POSTS AND SECURE WITH 3 TIES.
  7. NO MORE THAN 24 INCHES OF A 36 INCH FABRIC IS ALLOWED ABOVE THE GROUND LEVEL.
  8. THE INSTALLATION SHOULD BE CHECKED AND CORRECTED FOR ANY DEVIATIONS BEFORE COMPACTION.
  9. COMPACTION IS VITALLY IMPORTANT FOR EFFECTIVE RESULTS. COMPACT THE SOIL IMMEDIATELY NEXT TO THE SILTS FENCE FABRIC WITH THE FRONT WHEEL OF THE TRACTOR, SKID STEER, OR ROLLER EXERTING AT LEAST 60 POUNDS PER SQUARE INCH. COMPACT THE UPSTREAM SIDE FIRST, AND THEN EACH SIDE TWICE FOR A TOTAL OF 4 TRIPS.

MAINTENANCE

INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.

SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE PROMPTLY.

REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.

REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

- CONSTRUCTION SPECIFICATIONS
1. USE A SYNTHETIC FILTER FABRIC OF AT LEAST 95% BY WEIGHT OF POLYOLEFINS OR POLYESTER, WHICH IS CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE REQUIREMENTS IN ASTM D 6413, WHICH IS SHOWN IN PART IN TABLE 6.62B. SYNTHETIC FILTER FABRIC SHOULD CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 5 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0 TO 120° F.
  2. ENSURE THAT POSTS FOR SEDIMENT FENCES ARE 1.25 LB./LINEAR FT. MINIMUM STEEL WITH A MINIMUM LENGTH OF 5 FEET. MAKE SURE THAT STEEL POSTS HAVE PROJECTIONS TO FACILITATE FASTENING THE FABRIC.

Table 6.62b Specifications For Sediment Fence Fabric

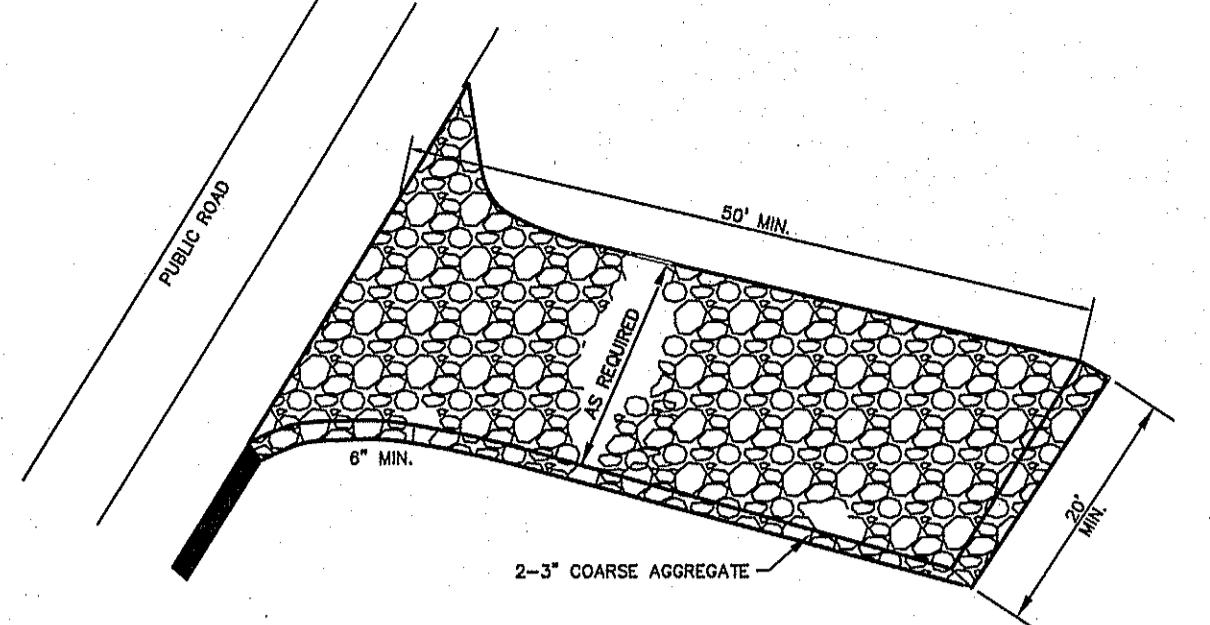
Test Material	Supported <sup>1</sup> Silts Fence		Un-Supported <sup>1</sup> Silts Fence	Type of Value
	Units	Units		
Grab Strength	ASTM D 4832	N (psi)	550	MARV
Machine Direction			(90)	(90)
			400	450
X-Machine Direction			(90)	(90)
			400	450
Permeability <sup>2</sup>	ASTM D 4491	sec-1	0.05	0.05
Apparent Opening Size <sup>3</sup>	ASTM D 4751	mm	0.60	0.60
		(US Sieve #)	(30)	(30)
Ultraviolet Stability	ASTM D 4355	Retained Strength	70% after 500h of exposure	70% of exposure
			70% after 500h of exposure	70% of exposure

<sup>1</sup> Silts Fence support shall consist of 14 gauge steel wire with a mesh spacing of 150 mm (6 inches), or prefabricated polymer mesh of equivalent strength.

<sup>2</sup> These default values are based on empirical evidence with a variety of sediment. For environmentally sensitive areas, a review of previous experience on site or regionally specific geospatial tests in accordance with Test Method D 5141 should be performed by the agency to confirm suitability of these requirements.

<sup>3</sup> As measured in accordance with Test Method D 4832.

- CONSTRUCTION
1. CONSTRUCT THE SEDIMENT BARRIER OF STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRIC.
  2. ENSURE THAT THE HEIGHT OF THE SEDIMENT FENCE DOES NOT EXCEED 24 INCHES ABOVE THE GROUND SURFACE. (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.)
  3. CONSTRUCT THE FILTER FABRIC FROM A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY, SECURELY FASTEN THE FILTER CLOTH ONLY OVER TO THE NEXT POST.
  4. SUPPORT STANDARD LENGTH FILTER FABRIC BY WIRE MESH FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS. EXTEND THE WIRE MESH SUPPORT TO THE BOTTOM OF THE TRENCH. FASTEN THE WIRE REINFORCEMENT, THEN FABRIC ON THE UPSLOPE SIDE OF THE FENCE POST. WIRE OR PLASTIC ZIP TIES SHOULD HAVE MINIMUM 50 POUND TENSILE STRENGTH.
  5. WHEN THE WIRE MESH SUPPORT FENCE IS USED, SPACE POST A MAXIMUM OF 8 FEET APART. SUPPORT POSTS SHOULD BE DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 24 INCHES.
  6. EXTRA STRENGTH FILTER FABRIC WITH 6 FEET POST SPACING DOES NOT REQUIRE WIRE MESH SUPPORT FENCE. SECURELY FASTEN THE FILTER FABRIC DIRECTLY TO POSTS. WIRE OR PLASTIC ZIP TIES SHOULD HAVE A MINIMUM 50 POUND TENSILE STRENGTH.
  7. EXCAVATE A TRENCH APPROXIMATELY 4 INCHES WIDE AND 8 INCHES DEEP ALONG THE PROPOSED LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
  8. PLACE 12 INCHES OF THE FABRIC ALONG THE BOTTOM AND SIDE OF THE TRENCH.
  9. BACKFILL THE TRENCH WITH SOIL PLACED OVER THE FILTER FABRIC AND COMPACT. THOROUGH COMPACTION OF THE BACKFILL IS CRITICAL TO SILTS FENCE PERFORMANCE.
  10. DO NOT ATTACH FILTER FABRIC TO EXISTING TREES.



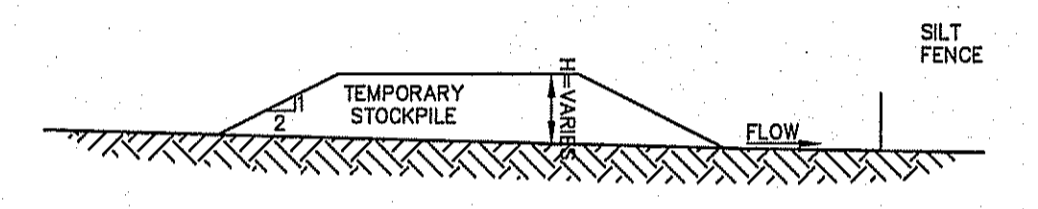
- CONSTRUCTION SPECIFICATION:
1. CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL AND PROPERLY GRADE IT.
  2. PLACE THE GRAVEL TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLANS, AND SMOOTH IT.
  3. PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET.
  4. USE GEOTEXTILE FABRICS BECAUSE THEY IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.

MAINTENANCE:

MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2-3 INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.

FOR CROSSINGS OVER CHANNELS/DITCH, INSPECT BLOCKAGE, EROSION OF ABUTMENTS, CHANNEL SCOUR, RIPRAP DISPLACEMENT, OR PIPING. MAKE ALL REPAIRS IMMEDIATELY TO PREVENT FURTHER DAMAGE TO THE INSTALLATION.

**CONSTRUCTION ENTRANCE**  
NO SCALE



**TEMPORARY STOCKPILE WITH SILTS FENCE**  
NO SCALE

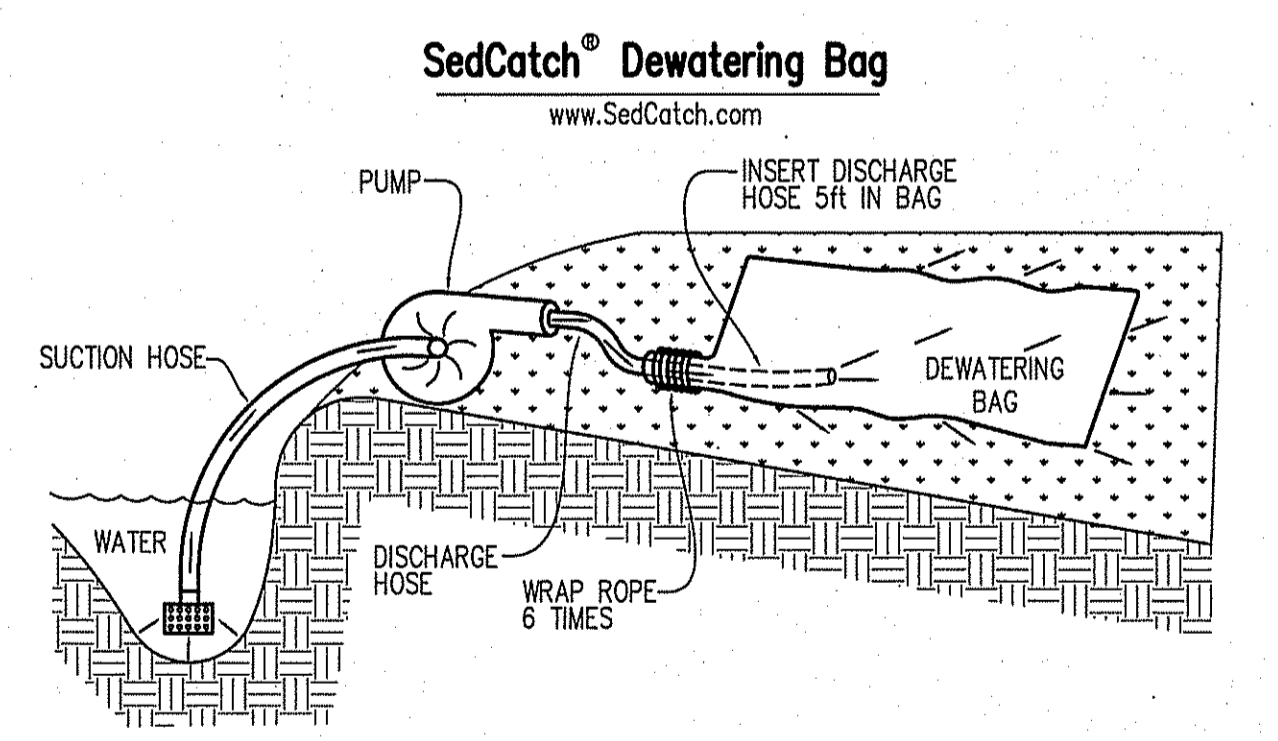
STOCKPILE STABILIZATION

STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN THREE (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (E.G. PERIMETER SILTS FENCES). STOCKPILES TO REMAIN IN PLACE FOR 30 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.

**Dewatering Bag Standard Drawing**

The purpose of a Dewatering Bag is to collect sediment contained in the discharged water, to prevent the scour and erosion from water exiting a pipe at high velocity, to defuse the water over a wider area to minimize erosion as the water drains away, and to retain oil contained within effluent.

A SedCatch® dewatering bag or approved equal should be used anytime water is pumped on the site.



- Installation and Use:
1. Place SedCatch® Dewatering Bag on the ground or on a trailer over a relatively level, stabilized area.
  2. Insert discharge pipe a minimum of 5ft. Inside SedCatch® dewatering bag and secure with a rope (included) wrapped 6 times around the snout over a 6 inch width of the bag.
  3. Replace SedCatch® Dewatering Bag when half full of sediment or when the sediment has reduced the flow rate of the pump's discharge to an impractical amount.

Maintenance and Disposal:

1. Remove and dispose of accumulated sediment away from waterways or environmentally sensitive areas. Silt open Sediment Bag and remove accumulated sediment. Dispose of bag at an appropriate recycling or solid waste facility. OR, as directed by engineer or inspector.



**BARTLETT**  
ENGINEERING & SURVEYING, PC

1906 NASH STREET NORTH  
WILSON, N.C. 27893-1726  
License No. C-1551

TELE: (252) 399-0704  
FAX: (252) 399-0804  
www.bartlett.us.com

S&E DETAILS

**WHIRLIGIG STATION**  
PARKING LOT IMPROVEMENTS

DATE: MAR. 2020  
SCALE(HORIZ): AS SHOWN  
SCALE(VERT): NA  
REVISIONS:

PROJECT: 18-501  
CLIENT CODE: WC  
CADFILE: 18501SP3  
FIELD BOOK:  
DRAWN BY: LR  
SURVEY BY: TB/OB

CITY OF WILSON  
NORTH CAROLINA  
PIN #

WILSON COUNTY  
ZONE: CCMX  
SHEET DT6



**GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT**

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

**SECTION E: GROUND STABILIZATION**

Required Ground Stabilization Timeframes		
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

**Note:** After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

**GROUND STABILIZATION SPECIFICATION**

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"> <li>Temporary grass seed covered with straw or other mulches and tackifiers</li> <li>Hydroseeding</li> <li>Rolled erosion control products with or without temporary grass seed</li> <li>Appropriately applied straw or other mulch</li> <li>Plastic sheeting</li> </ul>	<ul style="list-style-type: none"> <li>Permanent grass seed covered with straw or other mulches and tackifiers</li> <li>Geotextile fabrics such as permanent soil reinforcement matting</li> <li>Hydroseeding</li> <li>Shrubs or other permanent plantings covered with mulch</li> <li>Uniform and evenly distributed ground cover sufficient to restrain erosion</li> <li>Structural methods such as concrete, asphalt or retaining walls</li> <li>Rolled erosion control products with grass seed</li> </ul>

**POLYACRYLAMIDES (PAMS) AND FLOCCULANTS**

- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
- Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
- Provide ponding area for containment of treated Stormwater before discharging offsite.
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

**EQUIPMENT AND VEHICLE MAINTENANCE**

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
- Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

**LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE**

- Never bury or burn waste. Place litter and debris in approved waste containers.
- Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- Dispose waste off-site at an approved disposal facility.
- On business days, clean up and dispose of waste in designated waste containers.

**PAINT AND OTHER LIQUID WASTE**

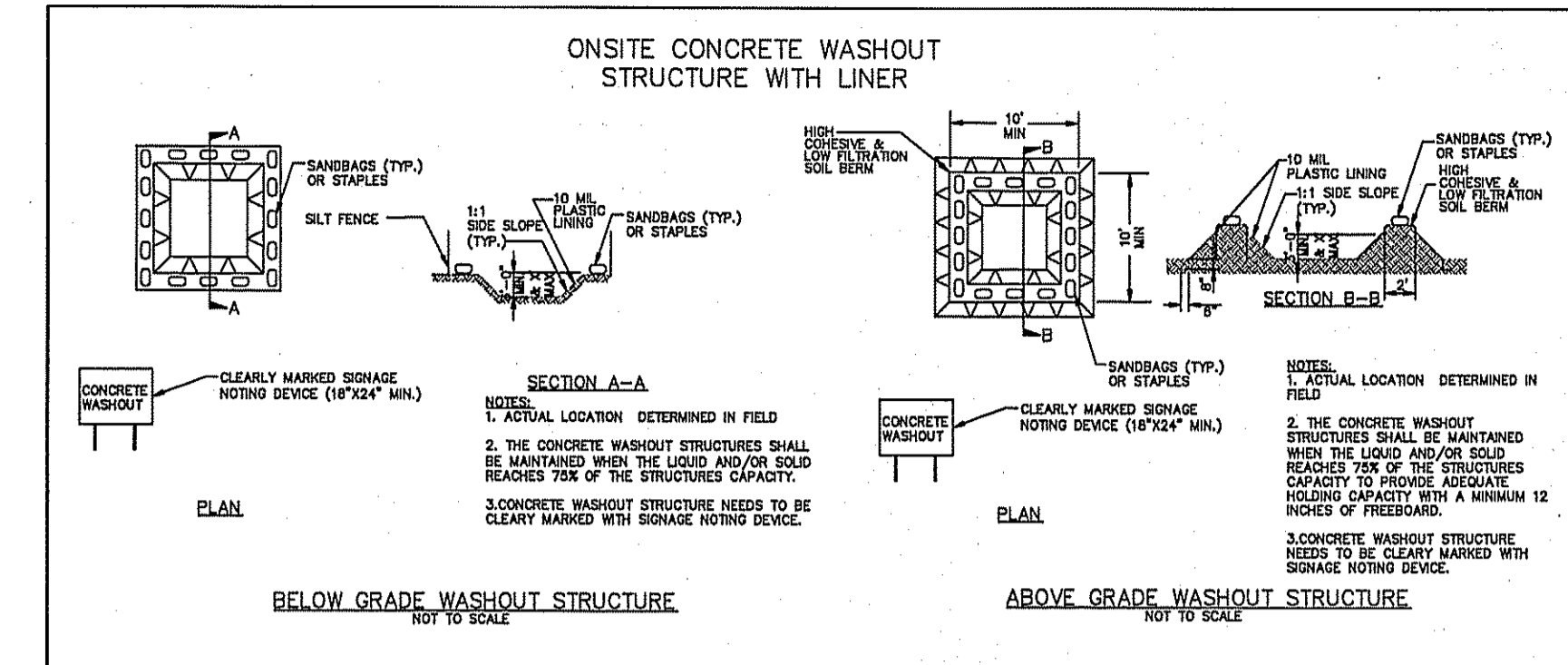
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site.
- Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

**PORTABLE TOILETS**

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
- Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

**EARTHEN STOCKPILE MANAGEMENT**

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.



**CONCRETE WASHOUTS**

- Do not discharge concrete or cement slurry from the site.
- Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
- Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
- Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
- Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
- Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

**HERBICIDES, PESTICIDES AND RODENTICIDES**

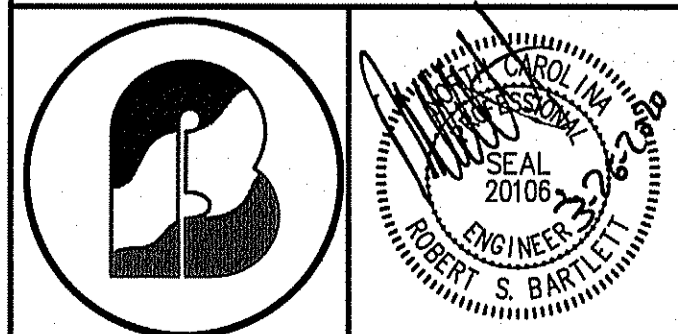
- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
- Do not stockpile these materials onsite.

**HAZARDOUS AND TOXIC WASTE**

- Create designated hazardous waste collection areas on-site.
- Place hazardous waste containers under cover or in secondary containment.
- Do not store hazardous chemicals, drums or bagged materials directly on the ground.

**NCG01 GROUND STABILIZATION AND MATERIALS HANDLING**

**EFFECTIVE: 04/01/19**



**BARTLETT**  
ENGINEERING & SURVEYING, PC  
1906 NASH STREET NORTH  
WILSON, N.C. 27893-1726  
License No. C-1551  
TELE: (252) 399-0704  
FAX: (252) 399-0804  
www.bartlett.us.com

**S&E**  
**NCG01 DETAILS**  
**(1 OF 2)**

**WHIRLIGIG STATION**  
**PARKING LOT IMPROVEMENTS**

DATE: MAR. 2020	PROJECT: 18-501
SCALE(HORIZ): AS SHOWN	CLIENT CODE: WC
SCALE(VERT): NA	CADFILE: 18501SP3
REVISIONS:	FIELD BOOK:
	DRAWN BY: LR
	SURVEY BY: TB/OB

CITY OF WILSON	WILSON COUNTY
NORTH CAROLINA	ZONE: CCMX
PIN #	SHEET DT7

PROJECT: 18-501, CLIENT CODE: WC, CADFILE: 18501SP3, FIELD BOOK: DRAWN BY: LR, SURVEY BY: TB/OB



**PART III  
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

**SECTION A: SELF-INSPECTION**

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event $\geq$ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event $\geq$ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event $\geq$ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event $\geq$ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (Installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

**PART III  
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

**SECTION B: RECORDKEEPING**

**1. E&SC Plan Documentation**

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be documented in the manner described:

Item to Document	Documentation Requirements
(a) Each E&SC Measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC Plan.	Initial and date each E&SC Measure on a copy of the approved E&SC Plan or complete, date and sign an inspection report that lists each E&SC Measure shown on the approved E&SC Plan. This documentation is required upon the initial installation of the E&SC Measures or if the E&SC Measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC Plan.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC Measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC Measures.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

**2. Additional Documentation**

In addition to the E&SC Plan documents above, the following items shall be kept on the site and available for agency inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- (a) This general permit as well as the certificate of coverage, after it is received.
- (b) Records of inspections made during the previous 30 days. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.
- (c) All data used to complete the Notice of Intent and older inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

**PART III  
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

**SECTION C: REPORTING**

**1. Occurrences that must be reported**

Permittees shall report the following occurrences:

- (a) Visible sediment deposition in a stream or wetland.
- (b) Oil spills if:
  - They are 25 gallons or more,
  - They are less than 25 gallons but cannot be cleaned up within 24 hours,
  - They cause sheen on surface waters (regardless of volume), or
  - They are within 100 feet of surface waters (regardless of volume).
- (a) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- (b) Anticipated bypasses and unanticipated bypasses.
- (c) Noncompliance with the conditions of this permit that may endanger health or the environment.

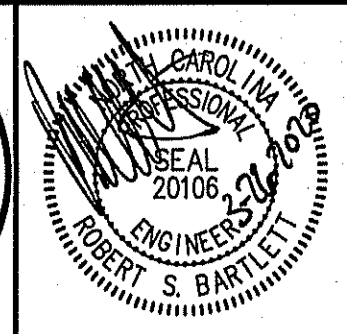
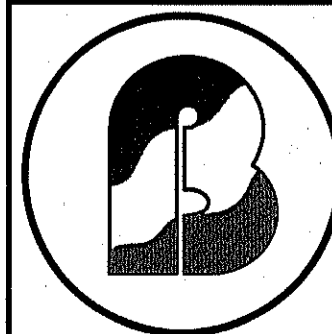
**2. Reporting Timeframes and Other Requirements**

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"> <li>• <b>Within 24 hours</b>, an oral or electronic notification.</li> <li>• <b>Within 7 calendar days</b>, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis.</li> <li>• If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.</li> </ul>
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	<ul style="list-style-type: none"> <li>• <b>Within 24 hours</b>, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.</li> </ul>
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> <li>• <b>A report at least ten days before the date of the bypass, if possible.</b> The report shall include an evaluation of the anticipated quality and effect of the bypass.</li> </ul>
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none"> <li>• <b>Within 24 hours</b>, an oral or electronic notification.</li> <li>• <b>Within 7 calendar days</b>, a report that includes an evaluation of the quality and effect of the bypass.</li> </ul>
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(l)(7)]	<ul style="list-style-type: none"> <li>• <b>Within 24 hours</b>, an oral or electronic notification.</li> <li>• <b>Within 7 calendar days</b>, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6)].</li> <li>• Division staff may waive the requirement for a written report on a case-by-case basis.</li> </ul>

**NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING**

**EFFECTIVE: 04/01/19**



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PARKING LOT IMPROVEMENTS

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PIN #	SHEET DT8

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