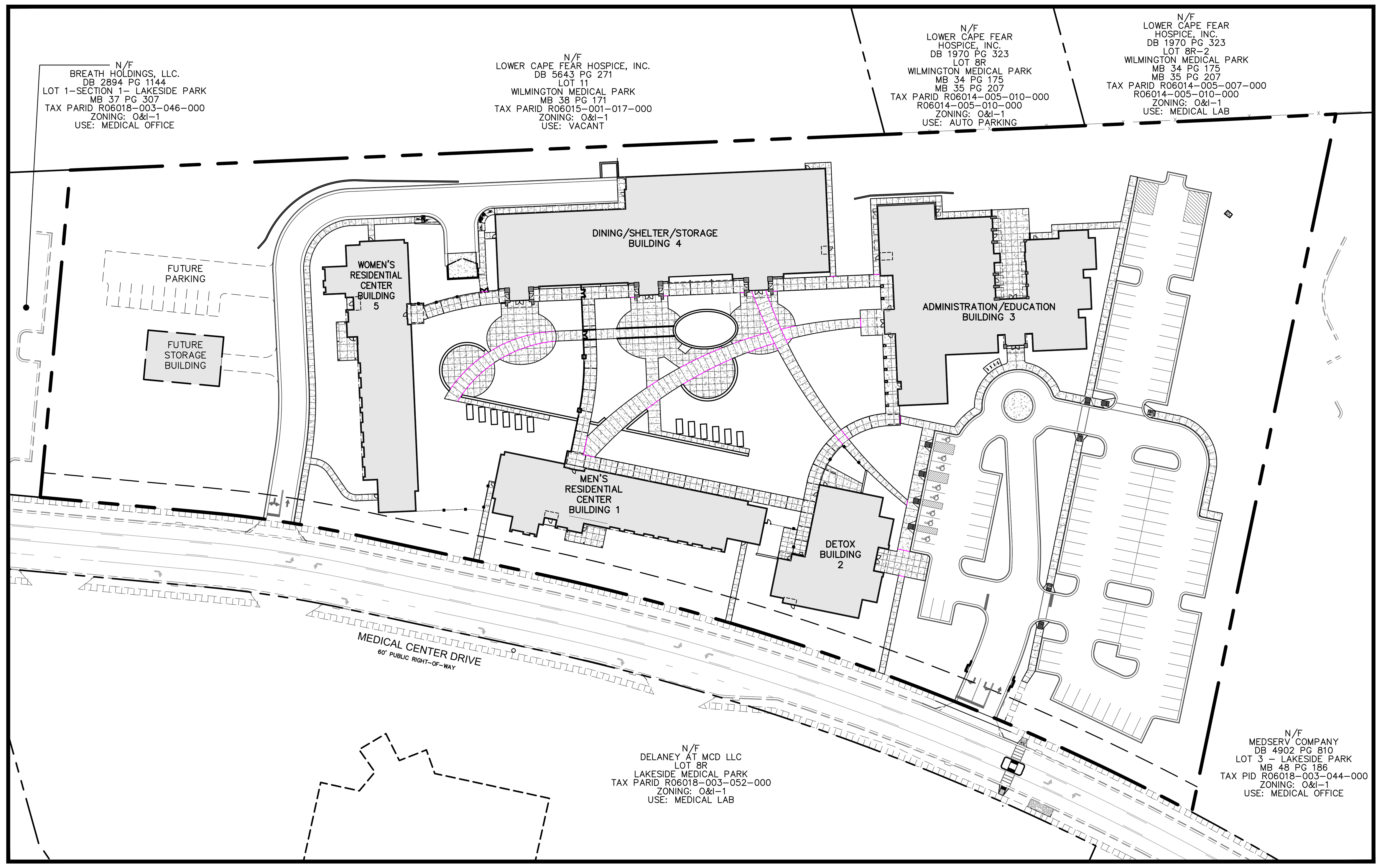
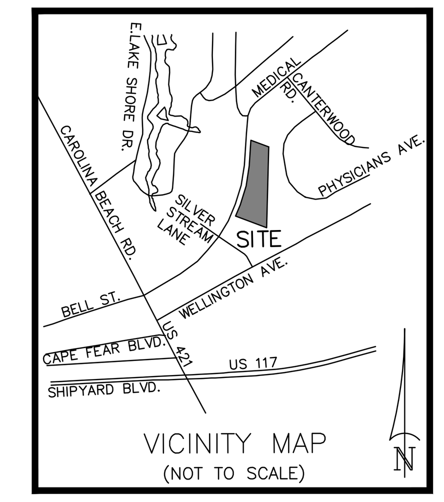
THE HEALING PLACE OF NEW HANOVER COUNTY

1000 Medical Center Drive
Wilmington, North Carolina

Site Plan





SITE DATA SUMMARY

PROJECT NAME:	THE HEALING PLACE OF NEW HANOVER COUNTY
SITE ADDRESS:	1000 MEDICAL CENTER DRIVE
JURISDICTION:	CITY OF WILMINGTON
PARCEL ID:	R06018–003–047–000
CURRENT ZONING:	O&I–1
PROPOSED ZONING:	O&I–1
TOTAL EXISTING ACREAGE:	8.70 AC./379,321 SF.
TREE CONSERVATION AREA:	0.196 AC. REQ'D/1.48 AC. PROVIDED
CAMA LAND CLASSIFICATION:	URBAN
CURRENT USE:	VACANT
PROPOSED USE:	GROUP HOME RESIDENTIAL
TOTAL # OF BUILDINGS:	5 (PHASE 1)
BUILDING CONSTRUCTION TYPE:	IIB
EXTERIOR DOORS & WINDOWS	NOT PROTECTED
MAX. ALLOWED BUILDING HEIGHT:	45'
BUILDING SQ. FOOTAGE/MAX. HT.	
BUILDING 1 (1 STORY):	9,632 SF./ 15' MAX. HT.
BUILDING 2 (1 STORY):	6,495 SF./ 15' MAX. HT.
BUILDING 3 (1 STORY):	17,095 SF./ 28'–3" MAX. HT.
BUILDING 4 (1 STORY):	20,860 SF./ 23'–4" MAX. HT.
BUILDING 5 (1 STORY):	9,783 SF./ 15' MAX. HT.
BUILDING LOT COVERAGE:	63,865 SF. (16.83%)
TOTAL # OF BEDS:	200
TOTAL # OF EMPLOYEES:	25
BUILDING SETBACKS:	(ALLOWED / PROPOSED)
FRONT:	20' / 21.5'
REAR:	20' / 25.0'
SIDE:	10' / 158.4'
CORNER:	20' / N/A
PARKING SUMMARY:	
BASIS OF DETERMINATION:	2 SPACES + 1 SPACE/4 BEDS + 1 SPACE/EMPLOYEE
PARKING REQUIRED:	2 SPACES + 200 BEDS/4 + 25 EMPLOYEES/1) = 77 REQUIRED
PARKING PROVIDED:	121 SPACES
HANDICAP REQUIRED:	5 SPACES
HANDICAP PROVIDED:	8 SPACES
VAN ACCESSIBLE REQUIRED:	1 SPACE
VAN ACCESSIBLE PROVIDED:	3 SPACES
BICYCLE PARKING:	5 SPACES REQ'D/8 SPACES PROVIDED
EXISTING IMPERVIOUS AREA:	1,761 SF (0.5%)
PROPOSED ON SITE IMPERVIOUS AREA INCREASE:	187,743 SF (49.5%)
TOTAL ON SITE IMPERVIOUS AREA:	189,504 SF (50.0%)
DISTURBED AREA:	287,369 SF / 6.6 AC
SOLID WASTE MANAGEMENT:	PRIVATE SERVICE

SPECIAL USE PERMIT SU–2–718 CONDITIONS OF APPROVAL

1. THE PROPERTY SHALL BE SUBJECT TO ALL OF THE SPECIFIC REQUIREMENTS STATED IN THE LAND DEVELOPMENT CODE FOR THE PROPOSED USE AS WELL AS ANY ADDITIONAL CONDITIONS STATED BELOW.
2. THE USE AND DEVELOPMENT OF THE PROPERTY SHALL COMPLY WITH ALL OTHER SUPPLEMENTAL REGULATIONS AND REQUIREMENTS IMPOSED BY THE LAND DEVELOPMENT CODE OR ANY OTHER APPLICABLE FEDERAL, STATE OR LOCAL LAW, ORDINANCE OR REGULATION. IN THE EVENT OF CONFLICT, THE MORE STRINGENT REQUIREMENT OR HIGH STANDARD SHALL APPLY.
3. IF FOR ANY REASON, ANY CONDITION FOR APPROVAL IS FOUND TO BE ILLEGAL OR INVALID OR IF THE APPLICANT SHOULD FAIL TO ACCEPT ANY CONDITION FOLLOWING APPROVAL, THE APPROVAL OF THE SITE PLAN FOR THE DISTRICT SHALL BE NULL AND VOID AND OF NO EFFECT AND PROCEEDINGS SHALL BE INSTITUTED TO REZONE THE PROPERTY TO ITS PREVIOUS ZONING CLASSIFICATION.
4. THE USE AND DEVELOPMENT OF THE PROPERTY SHALL BE IN ACCORDANCE WITH THE PLANS AND ELEVATIONS AS SUBMITTED AND APPROVED.
5. APPROVAL OF THIS SPECIAL USE PERMIT DOES NOT CONSTITUTE TECHNICAL APPROVAL OF THE SITE PLAN. ALL TECHNICAL REVIEW COMMITTEE COMMENTS SHALL BE FOLLOW PRIOR TO ISSUANCE OF A CONSTRUCTION RELEASE OR FINAL ZONING APPROVAL.
6. FREESTANDING SIGNAGE SHALL BE LIMITED TO MONUMENT STYLE WITH A MAXIMUM 6–FOOT HEIGHT AND LANDSCAPING SHALL BE INSTALLED ALONG THE BASE OF THE SIGN.
7. THE CREATIVE STANDARD SHALL NOT BE USED TO SATISFY STREETYARD LANDSCAPING REQUIREMENTS.
8. ALL CITY, STATE AND FEDERAL REGULATIONS SHALL BE MET.
9. NO REGISTERED SEX OFFENDERS SHALL BE PERMITTED ACCESS TO THE FACILITY.
10. ALL AMBULANCE SERVICE SHALL MUFFLE SIRENS WHEN VISITING THE FACILITY.
11. A 6–FOOT TALL FENCE SHALL BE PROVIDED ALONG THE NORTHERN, EASTERN AND SOUTHERN PROPERTY LINES. EXTERIOR SIDES OF THE FENCE THAT FACE ADJACENT PROPERTIES WILL BE OF UNIFORM AND AESTHETICALLY ATTRACTIVE QUALITY.
12. ADDITIONAL PLANTINGS SHALL BE PROVIDED AS SHOWN ON THE SITE PLAN PRESENTED AT THE 1/8/19 CITY COUNCIL MEETING. PLANTINGS SHALL BE PROVIDED WITHIN THE SITE AND ALONG THE PROPERTY BOUNDARIES TO PROVIDE ADDITIONAL BUFFERING.
13. ORGANIZED RESIDENT MOVEMENT SHALL BE RESTRICTED TO/FROM PHYSICIANS DRIVE.
14. ADDITIONAL STAFF SHALL BE PROVIDED ON A GRADUATED BASIS DEPENDING ON CLIENT NEEDS. WHEN NEAR CAPACITY SECOND SHIFT SHALL PROVIDE NO LESS THAN SIX STAFF MEMBERS AND THIRD SHIFT SHALL HAVE NO LESS THAN THREE STAFF MEMBERS.
15. PARKING SHALL BE LOCATED NO CLOSER THAN 40 FEET TO THE EASTERN PROPERTY LINE.
16. APPLICANT SHALL WORK WITH WAVE TO FACILITATE THE MOVEMENT OF EXISTING STOP SO THAT IT IS MORE ALIGNED WITH THE SOUTHERN ENTRANCE OF THE HEALING PLACE PROPERTY.
17. ONE LICENSED SECURITY PROFESSIONAL WILL BE PROVIDED ON SITE AND WITHIN THE IMMEDIATE VICINITY DURING ALL HOURS OF OPERATION.

TRIP GENERATION

EXCERPT FROM SU-2-718 FINAL CASE SUMMARY DATED AUGUST 21, 2018

4. IMPACTS ON PUBLIC SERVICES, FACILITIES, AND INFRASTRUCTURE

4.1 TRAFFIC

- BASED ON THE INTENSITY OF THE PROPOSED DEVELOPMENT A TRAFFIC IMPACT ANALYSIS (TIA) WILL NOT BE REQUIRED.
- TABLE 4.1.1 BELOW INDICATES THAT THIS PORTION OF MEDICAL CENTER DRIVE IS CURRENTLY OPERATING AT A LEVEL OF SERVICE (LOS) OF F. TABLE 3.1.2 INDICATES THAT THERE WOULD BE FEWER VEHICLE TRIPS ASSOCIATED WITH THE PROPOSED USE WHEN COMPARED TO POTENTIAL USES ALLOWED BY–RIGHT UNDER THE CURRENT ZONING.
- ACCESS TO THE SITE WOULD BE PROVIDED BY TWO NEW DRIVEWAYS LOCATED ON MEDICAL CENTER DRIVE. THERE ARE NO INTERCONNECTIONS PROPOSED TO ANY ADJACENT SITES.

Table 4.1.1 Current Weekday Volumes, Capacities and Levels of Service

Road	Location	Volume	Capacity	V/C	LOS
Medical Center Drive	Between Silver Stream Lane and Canterwood Drive	10,213	10,000	1.02	F

Table 4.1.2 Estimated Trip Generation

Zoning	Land Use	Intensity	AM Peak Hour Trips	PM Peak Hour Trips	Average Weekday 2way Volume Trips (ADT)
Existing O&I-1	Professional Office	94,800 sq ft*	157	142	1,410
Existing O&I-1	Medical Office	94,800 sq ft*	335	389	3,300
Proposed SUP	Group Home Residential	200 beds	36	68	520

Source: Institute of Transportation Engineers Trip Generation, 10th Edition, 2018. TRIP. Trip Generation by Trafficware Trip Gen 2013 8.0 *

PROPOSED CAPE FEAR UTILITIES:

PUBLIC 4" WATER MAIN	40 LF
PUBLIC 8" FIRE MAIN	40 LF
PRIVATE 2" WATER MAIN	50 LF
PRIVATE 4" WATER MAIN	1004 LF
PRIVATE 6" FIRE MAIN	538 LF
PRIVATE 8" FIRE MAIN	1220 LF
PUBLIC 8" GRAVITY SEWER	19 LF
PRIVATE 8" GRAVITY SEWER	614 LF

TECHNICAL STANDARD WAIVERS REQUESTED

1) 500' DRIVEWAY LENGTH (TECHNICAL STANDARD 7.C.8.4)
2) BACKING STUB DEPTH (SD 15–12)
(9.3' PROPOSED TO MEET 40' PARKING SETBACK ALONG EAST PROPERTY LINE PER CONDITION15 OF SU–2–718)

FLOODPLAIN NOTE:

THIS SITE IS NOT IN ANY SPECIAL FLOOD HAZARD AREAS OR FUTURE CONDITIONS FLOOD HAZARD AREAS, AS SHOWN ON FIRM PANEL 3701713126K DATED MAY 2, 2006

TRAFFIC IMPACT ANALYSIS:

REFERENCE: SPECIAL USE PERMIT SU–2–718 DATED AUGUST 21, 2018
SECTION 4.1 TRAFFIC
BASED ON THE INTENSITY OF DEVELOPMENT, A TRAFFIC IMPACT ANALYSIS (TIA) WILL NOT BE REQUIRED.

CAMA AREAS OF ENVIRONMENTAL CONCERN:

THIS SITE DOES NOT CONTAIN ANY OF THE FOUR CAMA AREAS OF ENVIRONMENTAL CONCERN.

GENERAL NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF WILMINGTON AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (811) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
3. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
4. BOUNDARY AND TOPOGRAPHICAL INFORMATION IS TAKEN FROM A SURVEY BY STROUD ENGINEERING P.A. FOR TRILLIUM HEALTH RESOURCES DATED MAY 19, 2106. AN ADDITIONAL WETLAND AND TREE INFORMATION IS TAKEN FROM A SURVEY BY BATEMAN CIVIL SURVEY CO. DATED SEPTEMBER 9, 2016.
5. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.
6. CONTRACTOR SHALL CALL TRAFFIC ENGINEERING AT 341–7888 FORTY–EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.
7. NO LAND DISTURBANCE INCLUDING TREE REMOVAL IS TO OCCUR OUTSIDE THE LIMITS OF DISTURBANCE SHOWN ON THE PLANS.
8. PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. LAND CLEARING AND CONSTRUCTION CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTION ON TREE PROTECTION REQUIREMENTS AND METHODS.

TRAFFIC CONTROL NOTES:

A. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS–OF–WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS. [DETAIL SD 11–03 AND SD 15–13 COFW TECH STDS]
B. ALL SIGNS AND PAVEMENT MARKINGS IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS. [DETAIL SD 15–13 COFW TECH STDS]
C. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT–OF–WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
D. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
E. ANY BROKEN OR MISSING SIDEWALK PANELS AND CURBING WILL BE REPLACED.
F. CONTACT TRAFFIC ENGINEERING AT (910) 341–7888 TO DISCUSS STREET LIGHTING OPTIONS.

FIRE & LIFE SAFETY NOTES

1. CONTRACTOR SHALL MAINTAIN ALL–WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
2. NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIAL BEING DELIVERED TO THE JOB SITE.
3. HYDRANT MUST BE WITHIN 150' OF THE FDC (MEASURED AS THE TRUCK DRIVES FOR PRACTICAL PURPOSES.
4. FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
5. LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE THE FDC OR FIRE HYDRANTS. A 3–FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT AND FDC.
6. ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
7. PRIVATE UNDERGROUND FIRE LINES REQUIRE A SEPARATE UNDERGROUND FIRE LINE PERMIT FROM THE WILMINGTON FIRE AND LIFE SAFETY DIVISION 910–343–0696.
9. CONTRACTOR SHALL SUBMIT A RADIO SIGNAL STRENGTH STUDY FOR ALL COMMERCIAL BUILDINGS THAT DEMONSTRATES THAT EMERGENCY RESPONDER RADIO SIGNAL LEVELS MEET SECTION 510 REQUIREMENTS OF THE 2018 NC FIRE CODE.
10. ALL ISOLATION VALVES WITHIN THE "HOT BOX" SHALL BE ELECTRICALLY SUPERVISED.

DRAWINGS INDEX:

DESIGNERS CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE LATEST WILMINGTON STANDARDS AND SPECIFICATIONS FOR STORM WATER MANAGEMENT AND CHAPTER 20 OF THE CODE OF ORDINANCES OF THE CITY OF WILMINGTON.

SIGNATURE: Edwin F. Sconfienza

PRINTED NAME AND TITLE: Edwin F. Sconfienza, P.E., Senior Civil Engineer

DATE: 6/17/2020 REGISTRATION NUMBER: 18303

OWNER'S/DEVELOPER'S CERTIFICATION

I/WE HEREBY CERTIFY THAT ANY CLEARING, GRADING CONSTRUCTION OR DEVELOPMENT, OR ALL OF THESE, WILL BE DONE PURSUANT TO THIS PLAN AND THAT THE APPLICABLE STORMWATER MANAGEMENT CONDITIONS AND REQUIREMENTS OF THE CITY OF WILMINGTON, THE STATE OF NORTH CAROLINA AND THE FEDERAL GOVERNMENT AND IT AGENCIES ARE HEREBY MADE PART OF THIS PLAN.

SIGNATURE: Kevin Caison

PRINTED NAME AND TITLE: KEVIN E. CAISON, FACILITY PROJECT MANAGER NEW HANOVER COUNTY

DATE: 6/17/2020

OWNER:
NEW HANOVER COUNTY
PROPERTY MANAGEMENT
200 DIVISION DRIVE
WILMINGTON, NC 28401
KEVIN E. CAISON
FACILITIES PROJECT MANAGER
PHONE: (910) 798–4338
EMAIL: kcaison@nhcgov.com

CONTACT:
ED SCONFIENZA, PE, LEED AP
THE SITE GROUP, PLLC
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RALEIGH, NC 27605
PHONE: (919) 835–4787
FAX: (919) 839–2255
EMAIL: ed@thesitegroup.net

ARCHITECT:
is design
MARK VALAND, PA
219 N. BOYLAN AVE., SUITE 100
RALEIGH, NC 27603
PHONE: 919–747–8708
EMAIL: mark@isdesignpa.com

NC GRID NAD83

NORTH

SCALE: 1" = 60'

0 60 120 180 240

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THE SITE GROUP, PLLC. LANDSCAPE ARCHITECTURAL CORPORATION CERT. NO. 353 NORTH CAROLINA RALEIGH, N.C.

Project

THE HEALING PLACE OF NEW HANOVER COUNTY
1000 MEDICAL CENTER DR
WILMINGTON, NC

Client

NEW HANOVER COUNTY

Key Plan

Professional Seals

NORTH CAROLINA PROFESSIONAL SEAL 18303 ENGINEER EDWIN F. SCONFIENZA 9/16/20

No.	Description	Date
1	SCHEMATIC DESIGN SUBMITTAL	06/19/2018
2	GMP DOCUMENTS	12/21/2018
3	REVISED GMP DOCUMENTS	01/07/2019
4	PRE-TRC CONSULTATION	03/24/2020
5	REVISED PER PLANNING (WALTON COMMENTS)	03/25/2020
6	DD DOCUMENTS	04/08/2020
7	PLAN REVIEW DOCUMENTS	07/01/2020
8	ADD SITE 102	07/14/2020
9	PLAN REVIEW DOCUMENTS	09/14/2020

Project Code: HTW

Sheet Title

COVER SHEET

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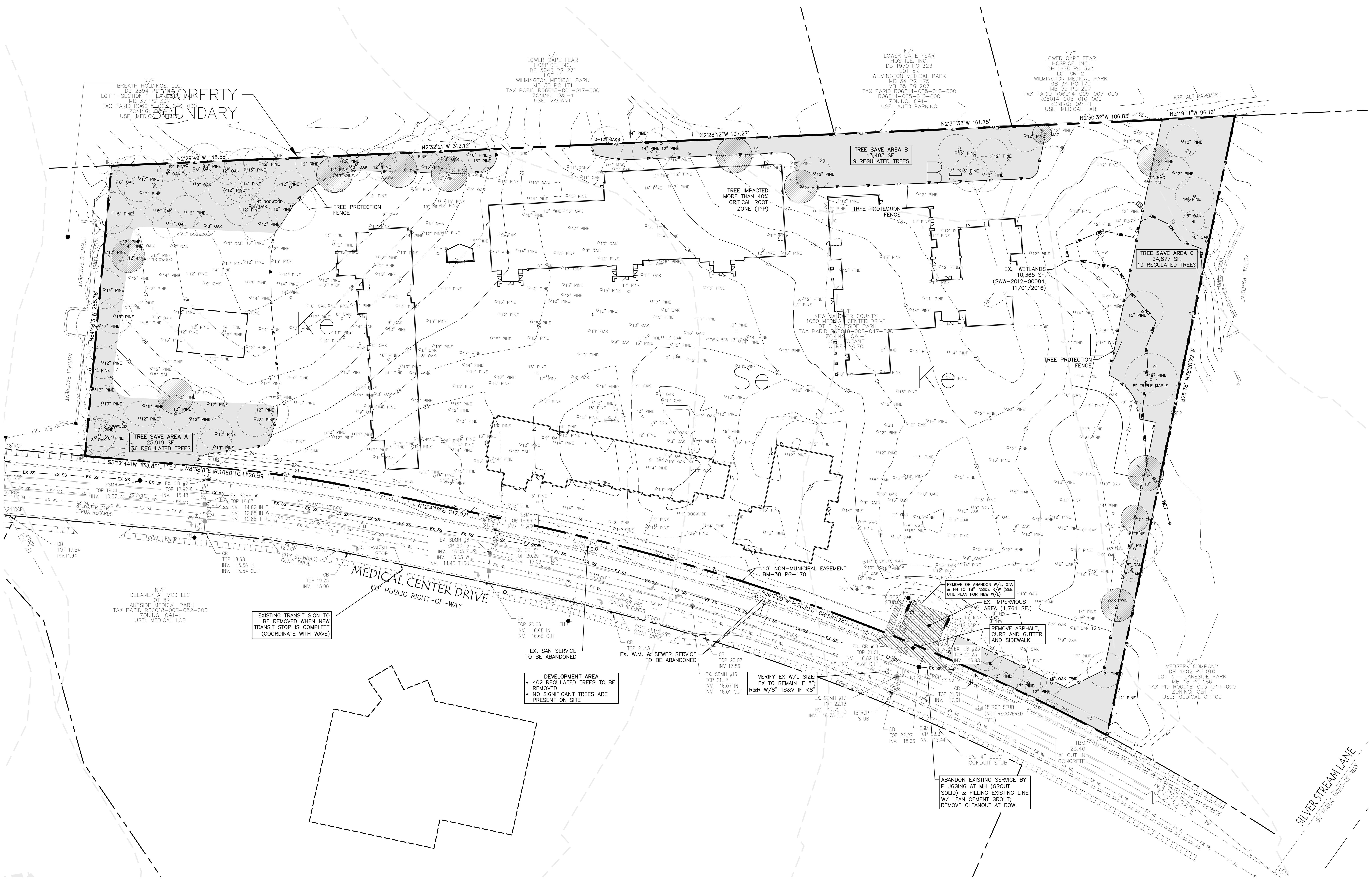
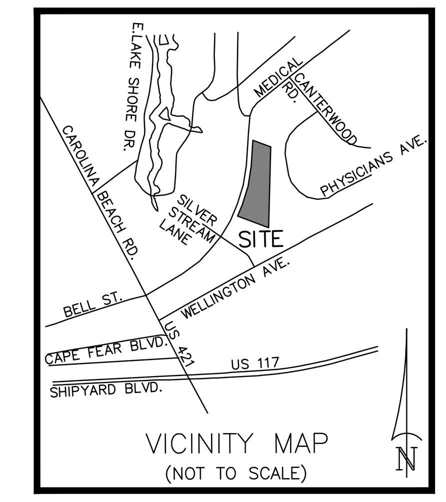
Sheet Number

SITE 001





LEGEND

	LP	LIGHT POLE
	ELEC	ELECTRIC
	CATV	CABLE TELEVISION
	FH	FIRE HYDRANT
	WV	WATER VALVE
	WM	WATER METER
	SSCO	SANITARY SEWER CLEAN OUT
	HCR	HANDICAP RAMP
	19.4	SPOT ELEVATION
	25	CONTOUR
N84°46'3"W	265.36	SURVEYED PROPERTY CALL
(N84°47'16"W	265.24)	MAP PROPERTY CALL

LEGEND

- PROPERTY BOUNDARY
- EX. ADJ LOT LINE
- EX. EASEMENTS
- EX SS — EX. SAN SEWER LINE
- EX WL — EX. WATER LINE
- EX SD — EX. STORM DRAIN LINE
- WET — EX. WETLANDS
- TOPO MAJOR
- TOPO MINOR
- IMPACTED TREES > 40% CRZ

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SURVEY NOTES

1. SURVEY DONE WITHOUT BENEFIT OF A TITLE SEARCH.
2. SURVEY BASED ON NAD83 PER MAP BOOK 37 PAGE 220.
3. ELEVATIONS BASED ON NAVD 1988.
4. ALL UTILITIES SHOWN WHERE THOSE VISIBLE AT TIME OF SURVEY.
5. WATER AND SEWER SIZES REPORTED BY CFPUA.

SURVEYOR:

BOUNDARY AND TOPOGRAPHY
STROUD ENGINEERING, P.A.
102–D CINEMA DRIVE
WILMINGTON, NC 28403
PHONE: 910–815–0775

TREE AND WETLAND SURVEY
BATEMAN CIVIL SURVEY COMPANY
406 NORTH THIRD STREET
WILMINGTON, NC 28401
PHONE: 919–577–1080

FLOODPLAIN NOTE:

THIS SITE IS NOT IN ANY SPECIAL FLOOD HAZARD AREAS OR FUTURE CONDITIONS FLOOD HAZARD AREAS, AS SHOWN ON FIRM PANEL 3701713126K DATED MAY 2, 2006

EXISTING TREE PRESERVATION TABLE

AREA	SQUARE FOOTAGE	# OF SIGNIFICANT TREES**	# OF REGULATED TREES	# OF IMPACTED TREES*
TREE SAVE AREA A	25,919 SF.	0	12 OAKS, 42 PINES, 2 DOGWOODS	5 PINES
TREE SAVE AREA B	13,483 SF.	0	1 TRIPLE OAK, 8 PINES	2 PINES, 1 MAGNOLIA
TREE SAVE AREA C	24,877 SF.	0	5 OAKS, 12 PINES, 1 MAPLE, 1 MAGNOLIA	2 PINES, 2 OAKS

* EXISTING TREES WITHIN TREE PROTECTION AREAS THAT WILL BE IMPACTED GREATER THAN 40% OF CRITICAL ROOT ZONE.
** NO SIGNIFICANT TREES ARE PRESENT ON SITE.

NC GRID
NAD83
NORTH

SCALE: 1" = 40'

0 40 80 120 160

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Project

THE HEALING PLACE OF NEW HANOVER COUNTY

1000 MEDICAL CENTER DR
WILMINGTON, NC

Client

NEW HANOVER COUNTY

NEW HANOVER COUNTY • NORTH CAROLINA • ESTABLISHED 1729

Key Plan

Professional Seals

NORTH CAROLINA PROFESSIONAL SEAL 18303 ENGINEER EDWIN F. SCONFIENZA

9/14/20

No.	Description	Date
1	SCHEMATIC DESIGN SUBMITTAL	06/19/2018
2	GMP DOCUMENTS	12/21/2018
3	PRE-TRC CONSULTATION	03/24/2020
4	REVISED PER PLANNING (WALTON COMMENTS)	03/25/2020
5	DD DOCUMENTS	04/08/2020
6	PLAN REVIEW DOCUMENTS	07/01/2020
7	PLAN REVIEW DOCUMENTS	09/14/2020

Project Code: 16HTWILMING

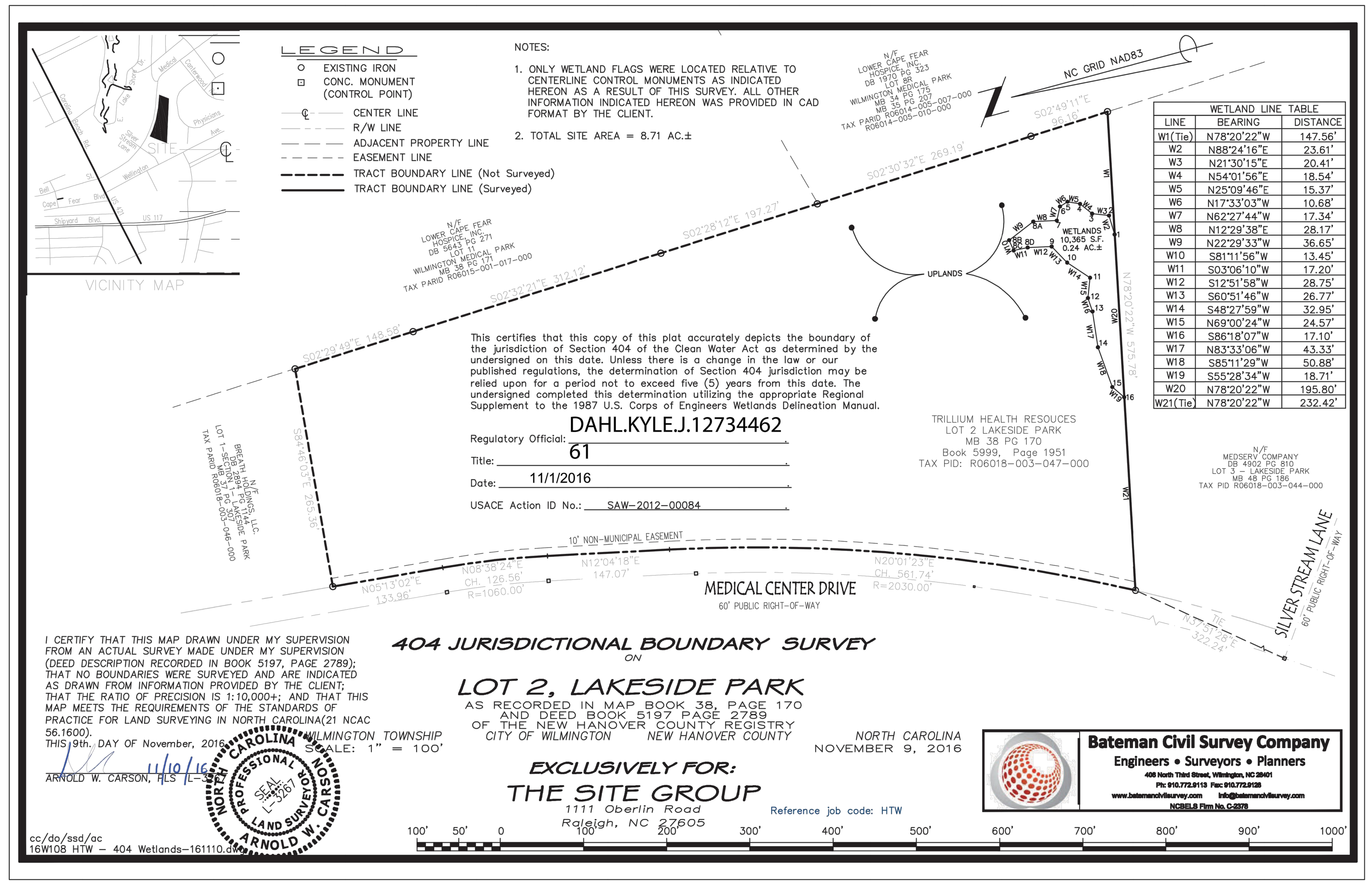
Sheet Title

EXISTING CONDITIONS PLAN

Original drawing is 42 x 30 Do not scale contents of this drawing

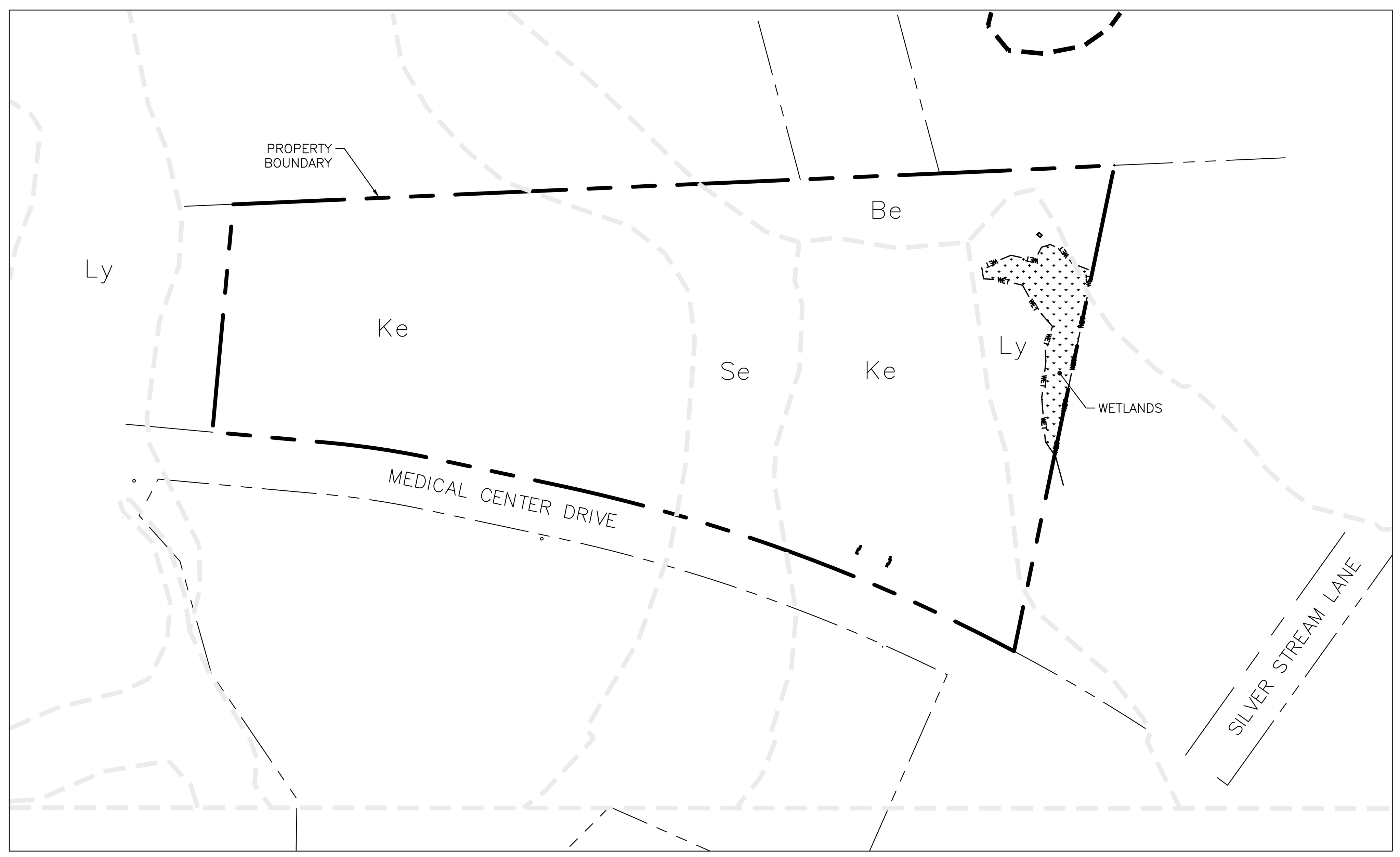
Sheet Number

SITE 100



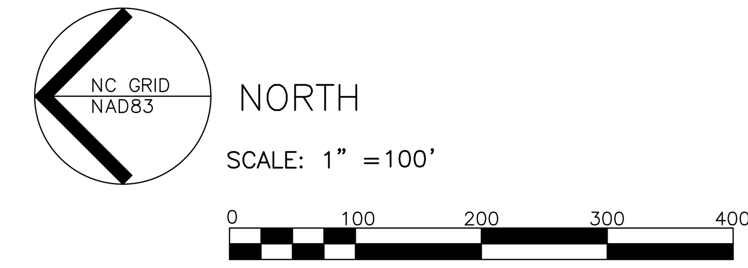
WETLAND LINE TABLE		
LINE	BEARING	DISTANCE
W1(Tie)	N78°20'22"W	147.56'
W2	N88°24'16"E	23.61'
W3	N21°30'15"E	20.41'
W4	N54°01'56"E	18.54'
W5	N25°09'46"E	15.37'
W6	N17°33'03"W	10.68'
W7	N62°27'44"W	17.34'
W8	N12°29'38"E	28.17'
W9	N22°29'33"W	36.65'
W10	S81°11'56"W	13.45'
W11	S03°06'10"W	17.20'
W12	S12°51'58"W	28.75'
W13	S60°51'46"W	26.77'
W14	S48°27'59"W	32.95'
W15	N69°00'24"W	24.57'
W16	S86°18'07"W	17.10'
W17	N83°33'06"W	43.33'
W18	S85°11'29"W	50.88'
W19	S55°28'34"W	18.71'
W20	N78°20'22"W	195.80'
W21(Tie)	N78°20'22"W	232.42'

APPROVED WETLAND MAP



SOIL TYPE MAP

SOIL TYPES
Be BAYMEADE FINE SAND
Ke KENANSVILLE FINE SAND
Ly LYNN HAVEN FINE SAND
Se SEAGATE FINE SAND



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09/14/20

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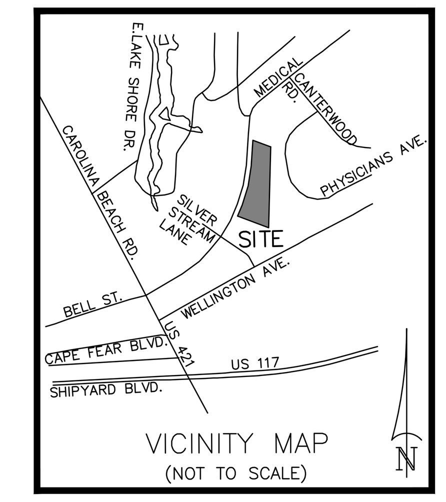
5	PLAN REVIEW DOCUMENTS	09/14/2020

Project Code: 16HTWILMING
Sheet Title
WETLANDS & SOILS MAP

Original drawing is 42 x 30. Do not scale contents of this drawing

Sheet Number
SITE 101

H:\The SITE Group\Projects\HTW\Dwg\HTW-SITEBASE.dwg, SITE 101, 9/16/2020 3:32:46 PM
9/16/2020 3:32 PM H:\The SITE Group\Projects\HTW\Dwg\HTW-SITEBASE.dwg



LEGEND

	LP	LIGHT POLE
	ELEC	ELECTRIC
	CATV	CABLE TELEVISION
	FH	FIRE HYDRANT
	WV	WATER VALVE
	WM	WATER METER
	SSCO	SANITARY SEWER CLEAN OUT
	HCR	HANDICAP RAMP
	19.4	SPOT ELEVATION
	25	CONTOUR
N84°46'3"W	265.36	SURVEYED PROPERTY CALL
(N84°47'16"W	265.24)	MAP PROPERTY CALL

LEGEND

- PROPERTY BOUNDARY
- EX. ADJ LOT LINE
- EX. EASEMENTS
- EX SS — EX. SAN SEWER LINE
- EX WL — EX. WATER LINE
- EX SD — EX. STORM DRAIN LINE
- WET — EX. WETLANDS
- TOPO MAJOR
- TOPO MINOR
- IMPACTED TREES > 40% CRZ

GENERAL NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF WILMINGTON AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (811) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
3. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
4. BOUNDARY AND TOPOGRAPHICAL INFORMATION IS TAKEN FROM A SURVEY BY STROUD ENGINEERING P.A. FOR TRILLIUM HEALTH RESOURCES DATED MAY 19, 2106. AN ADDITIONAL WETLAND AND TREE INFORMATION IS TAKEN FROM A SURVEY BY BATEMAN CIVIL SURVEY CO. DATED SEPTEMBER 9, 2016.
5. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.
6. CONTRACTOR SHALL CALL TRAFFIC ENGINEERING AT 341–7888 FORTY–EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.
7. NO LAND DISTURBANCE INCLUDING TREE REMOVAL IS TO OCCUR OUTSIDE THE LIMITS OF DISTURBANCE SHOWN ON THE PLANS.
8. PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. LAND CLEARING AND CONSTRUCTION CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTION ON TREE PROTECTION REQUIREMENTS AND METHODS.

SURVEY NOTES

1. SURVEY DONE WITHOUT BENEFIT OF A TITLE SEARCH.
2. SURVEY BASED ON NAD83 PER MAP BOOK 37 PAGE 220.
3. ELEVATIONS BASED ON NAVD 1988.
4. ALL UTILITIES SHOWN WHERE THOSE VISIBLE AT TIME OF SURVEY.
5. WATER AND SEWER SIZES REPORTED BY CFPUA.

FLOODPLAIN NOTE:

THIS SITE IS NOT IN ANY SPECIAL FLOOD HAZARD AREAS OR FUTURE CONDITIONS FLOOD HAZARD AREAS, AS SHOWN ON FIRM PANEL 3701713126K DATED MAY 2, 2006

EXISTING TREE PRESERVATION TABLE

AREA	SQUARE FOOTAGE	# OF SIGNIFICANT TREES**	# OF REGULATED TREES	# OF IMPACTED TREES*
TREE SAVE AREA A	25,919 SF.	0	12 OAKS, 42 PINES, 2 DOGWOODS	5 PINES
TREE SAVE AREA B	13,483 SF.	0	1 TRIPLE OAK, 8 PINES	2 PINES, 1 MAGNOLIA
TREE SAVE AREA C	24,877 SF.	0	5 OAKS, 12 PINES, 1 MAPLE, 1 MAGNOLIA	2 PINES, 2 OAKS

* EXISTING TREES WITHIN TREE PROTECTION AREAS THAT WILL BE IMPACTED GREATER THAN 40% OF CRITICAL ROOT ZONE.
** NO SIGNIFICANT TREES ARE PRESENT ON SITE.

NC GRID NAD83
NORTH
SCALE: 1" = 40'
0 40 80 120 160

SURVEYOR:

BOUNDARY AND TOPOGRAPHY
STROUD ENGINEERING, P.A.
102–D CINEMA DRIVE
WILMINGTON, NC 28403
PHONE: 910–815–0775

TREE AND WETLAND SURVEY
BATEMAN CIVIL SURVEY COMPANY
406 NORTH THIRD STREET
WILMINGTON, NC 28401
PHONE: 919–577–1080

isdesign
ARCHITECTURE + INTERIORS
219 N. Boylan Avenue
Raleigh, North Carolina 27603
t. 919.833.5400
www.isdesignpa.com

THE SITE GROUP
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1111 Oberlin Road
Raleigh, NC 27605–1136 USA
Office: 919.835.4787
email: bdm@thesitegroup.net
THE SITE GROUP, PLLC. LANDSCAPE ARCHITECTURAL CORPORATION CERT. NO. 353 NORTH CAROLINA RALEIGH, N.C.

Project
THE HEALING PLACE OF NEW HANOVER COUNTY
1000 MEDICAL CENTER DR
WILMINGTON, NC

Client
NEW HANOVER COUNTY

Key Plan

Professional Seals
NORTH CAROLINA PROFESSIONAL SEAL 18303 ENGINEER EDWIN F. SCONFIENZA
9/14/20

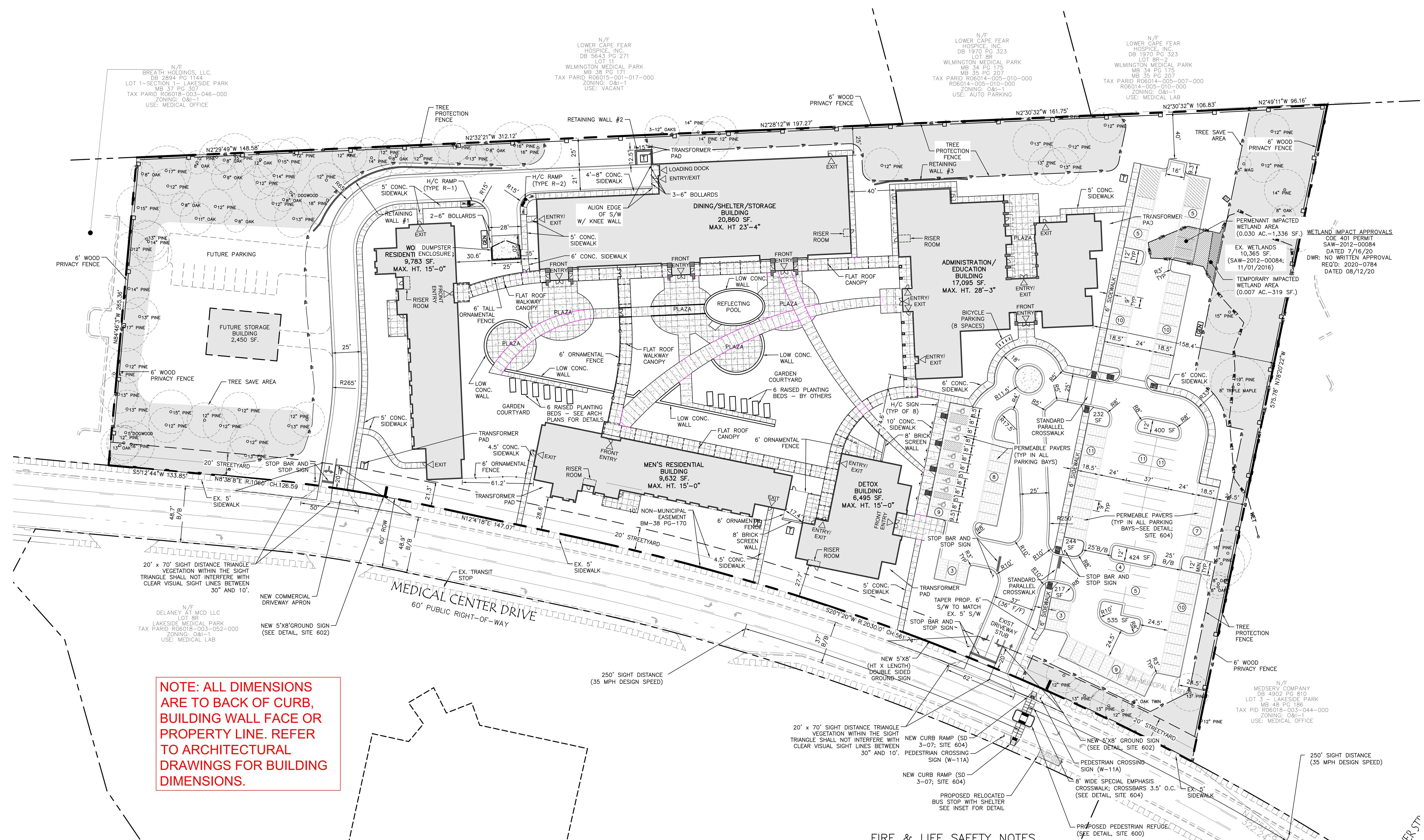
No.	Description	Date
1	PLAN REVIEW DOCUMENTS	07/14/2020
2	PLAN REVIEW DOCUMENTS	09/14/2020
3	PLAN REVIEW DOCUMENTS	09/14/2020

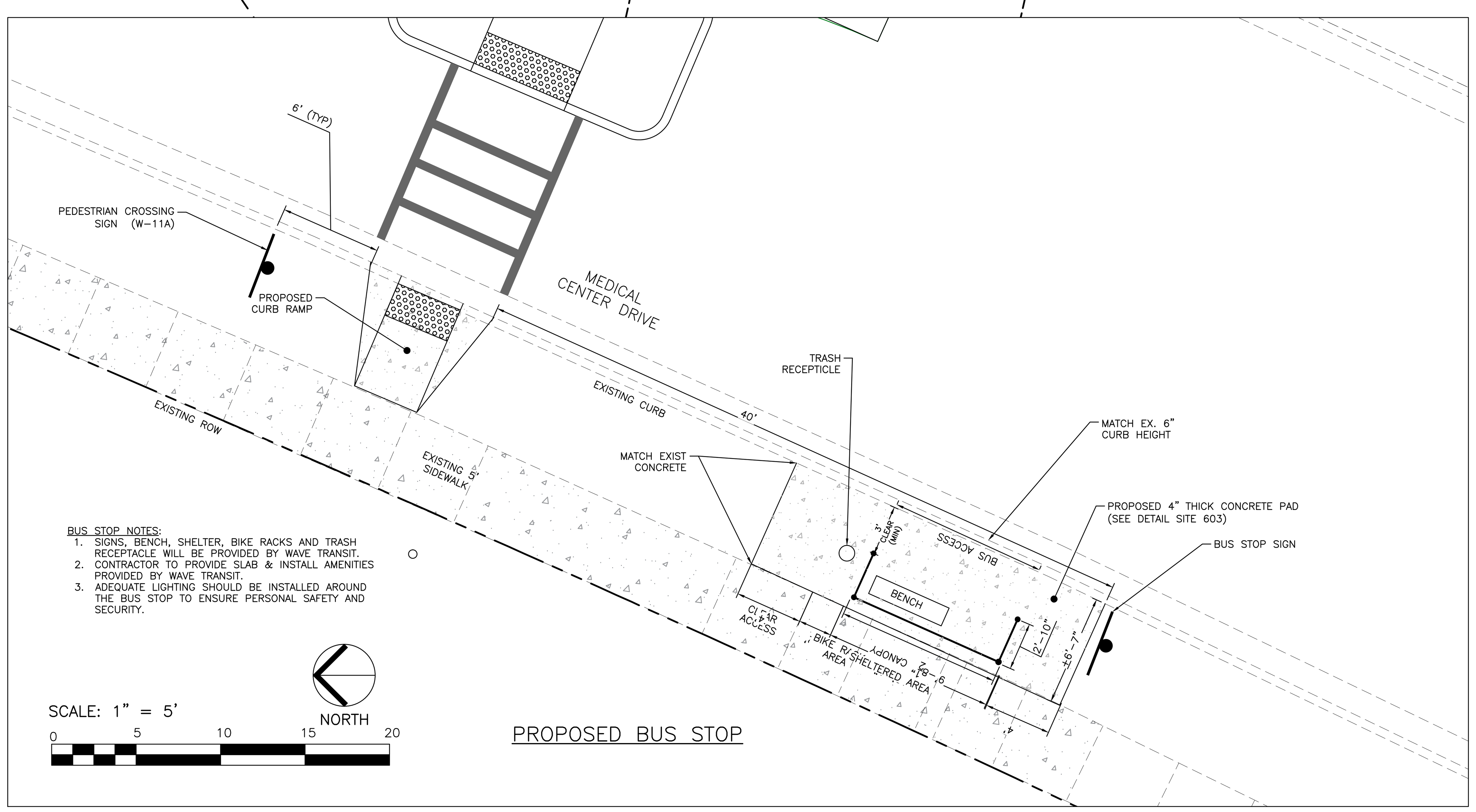
Project Code: 16HTWILMING

Sheet Title
TREE REMOVAL WITH IMPROVEMENT OVERLAY PLAN

Original drawing is 42 x 30 Do not scale contents of this drawing

Sheet Number
SITE 102





PROPOSED BUS STOP

FIRE & LIFE SAFETY NOTES

1. CONTRACTOR SHALL MAINTAIN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
2. NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIAL BEING DELIVERED TO THE JOB SITE.
3. HYDRANT MUST BE WITHIN 150' OF THE FDC (MEASURED AS THE TRUCK DRIVES FOR PRACTICAL PURPOSES.
4. FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
5. LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE THE FDC OR FIRE HYDRANTS. A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT AND FDC.
6. ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
7. PRIVATE UNDERGROUND FIRE LINES REQUIRE A SEPARATE UNDERGROUND FIRE LINE PERMIT FROM THE WILMINGTON FIRE AND LIFE SAFETY DIVISION 910-343-0696.
9. CONTRACTOR SHALL SUBMIT A RADIO SIGNAL STRENGTH STUDY FOR ALL COMMERCIAL BUILDINGS THAT DEMONSTRATES THAT EMERGENCY RESPONDER RADIO SIGNAL LEVELS MEET SECTION 510 REQUIREMENTS OF THE 2018 NC FIRE CODE.
10. ALL ISOLATION VALVES WITHIN THE "HOT BOX" SHALL BE ELECTRICALLY SUPERVISED.

GENERAL NOTES

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FLOODPLAIN NOTE:

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TREE PROTECTION NOTE:

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LEGEND

- PROPERTY BOUNDARY
- EX. ADJ LOT LINE
- EX. EASEMENTS
- EX. SAN SEWER LINE
- EX. WATER LINE
- EX. STORM DRAIN LINE
- NEW SAN SEWER LINE
- NEW WATER LINE
- NEW STORM DRAIN LINE
- WET EX. WETLANDS
- TOPO MAJOR
- TOPO MINOR

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Project

THE HEALING PLACE OF NEW HANOVER COUNTY

1000 MEDICAL CENTER DR
WILMINGTON, NC

Client

NEW HANOVER COUNTY

Key Plan

Professional Seals

NORTH CAROLINA PROFESSIONAL SEAL 18303 ENGINEER EDWIN F. SCONFIENZA

Edwin F. Sconfienza 9/14/20

No.	Description	Date
1	SCHEMATIC DESIGN SUBMITTAL	06/19/2018
2	GMP DOCUMENTS	12/21/2018
3	REVISED GMP DOCUMENTS	01/07/2019
4	PRE-TRC CONSULTATION	03/24/2020
5	REVISED PER PLANNING (WALTON COMMENTS)	03/25/2020
6	DD DOCUMENTS	04/08/2020
7	PLAN REVIEW DOCUMENTS	07/01/2020
8	PLAN REVIEW DOCUMENTS	09/14/2020

Project Code: HTW

Sheet Title

SITE PLAN

Original drawing is 42 x 30. Do not scale contents of this drawing

Sheet Number

SITE 200

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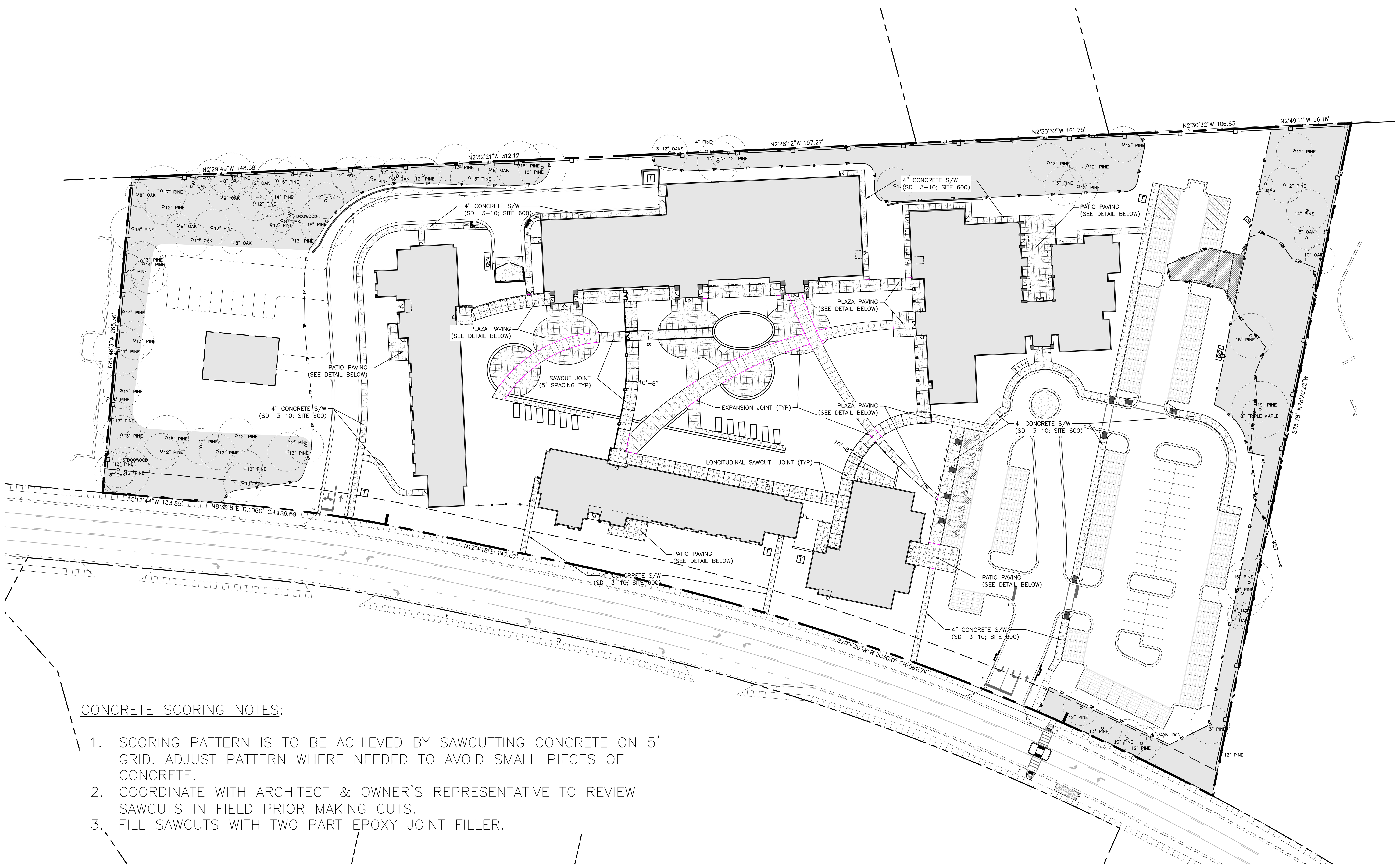

CONCRETE SCORING NOTES:

1. SCORING PATTERN IS TO BE ACHIEVED BY SAWCUTTING CONCRETE ON 5' GRID. ADJUST PATTERN WHERE NEEDED TO AVOID SMALL PIECES OF CONCRETE.
2. COORDINATE WITH ARCHITECT & OWNER'S REPRESENTATIVE TO REVIEW SAWCUTS IN FIELD PRIOR MAKING CUTS.
3. FILL SAWCUTS WITH TWO PART EPOXY JOINT FILLER.

CONCRETE NOTES:

1. FOR ALL SITE CONCRETE PROVIDE CONCRETE WITH 3500 PSI 28 DAY COMPRESSIVE STRENGTH WITH 4% TO 6% AIR ENTRAINMENT.
2. ALL SLAB ON GRADE CONCRETE SHALL BE CURED USING AN APPROVED WET CURING PROCESS.
3. PROVIDE TOOLED JOINTS ON SIDEWALKS UNIFORMLY SPACED EVERY 5' OR WIDTH OF WALK, WHICHEVER IS GREATER.
4. PROVIDE EXPANSION JOINTS EVERY 30' IN SIDEWALKS.
5. PROVIDE EXPANSION JOINTS WHERE NEW CONCRETE IS POURED NEXT TO EXISTING CONCRETE.
6. EXPANSION JOINT MATERIAL TO BE BITUMEN BOARDS OR APPROVED ALTERNATE. EXPANSION JOINT FILLER TO BE TWO COMPONENT EPOXY JOINT FILLER
7. JOINTS IN PLAZA AREA TO BE SAWCUT AND FILLED WITH TWO COMPONENT EPOXY JOINT FILLER.
8. PROVIDE 6X6–W2.9xW2.9 WWF FOR ALL CONCRETE PAVING IN PLAZA AREA AND IN ALL PATIO AREAS.

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LEGEND

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- EX. EASEMENTS
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- EX. WATER LINE
- EX. STORM DRAIN LINE
- NEW SAN SEWER LINE
- NEW WATER LINE
- NEW STORM DRAIN LINE
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- TOPO MAJOR
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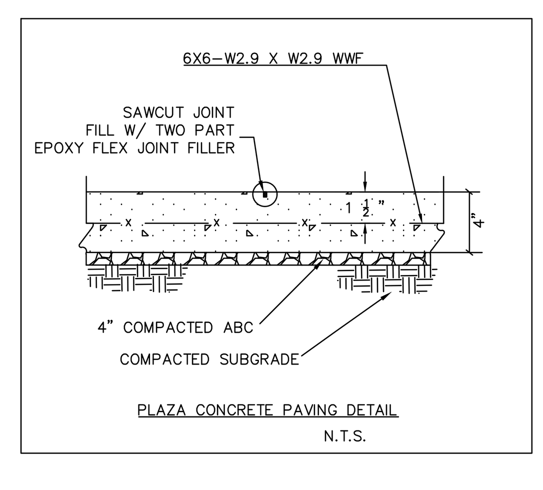

PLAZA CONCRETE PAVING DETAIL
N.T.S.

NC GRID NAD83
NORTH
SCALE: 1" = 40'
0 40 80 120 160

isdesign ARCHITECTURE + INTERIORS
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1111 Oberlin Road
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email: bdm@thesitegroup.net

Project
THE HEALING PLACE OF NEW HANOVER COUNTY
1000 MEDICAL CENTER DR
WILMINGTON, NC

Client
NEW HANOVER COUNTY

Key Plan

Professional Seals

No.	Description	Date
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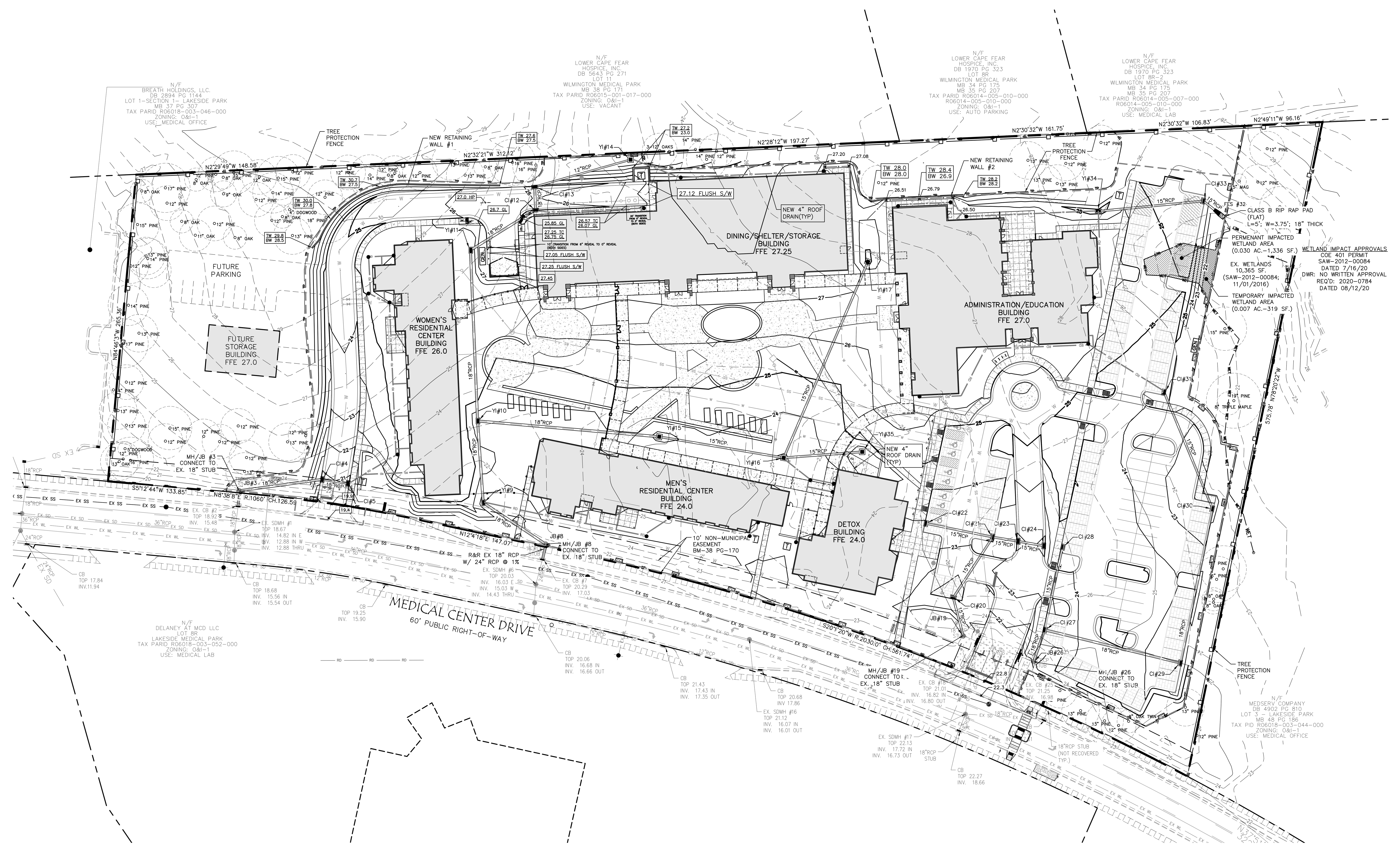
4	PRE-TRC CONSULTATION	03/24/2020
5	REVISED PER PLANNING (WALTON COMMENTS)	03/25/2020
6	DD DOCUMENTS	04/08/2020
7	PLAN REVIEW DOCUMENTS	07/01/2020
8	PLAN REVIEW DOCUMENTS	09/14/2020

Project Code: HTW
Sheet Title
CONCRETE SCORING PLAN

Original drawing is 42 x 30. Do not scale contents of this drawing

Sheet Number
SITE 201



STORM SEWER STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
CI#13	RIM = 26.21 INV IN = 19.47 (85.9 LF 12" RCP @ 0.50%) INV OUT = 19.47 (19.9 LF 18" RCP @ 0.50%)
CI#12	RIM = 26.21 INV IN = 19.37 (19.9 LF 18" RCP @ 0.50%) INV OUT = 19.37 (66.1 LF 18" RCP @ 0.50%)
YI#11	RIM = 24.98 INV IN = 19.04 (66.1 LF 18" RCP @ 0.50%) INV OUT = 19.04 (147.3 LF 18" RCP @ 0.50%)
CI#33	RIM = 24.64 INV IN = 22.19 (91.0 LF 15" RCP @ 0.50%) INV OUT = 22.09 (18.0 LF 15" RCP @ 0.50%)
YI#17	RIM = 24.61 INV OUT = 20.77 (184.0 LF 15" RCP @ 0.50%)
CI#31	RIM = 24.54 INV OUT = 19.74 (108.7 LF 15" RCP @ 0.50%)
YI#34	RIM = 24.53 INV OUT = 22.64 (91.0 LF 15" RCP @ 0.50%)
CI#28	RIM = 24.53 INV OUT = 19.01 (73.0 LF 15" RCP @ 2.06%)
CI#22	RIM = 23.95 INV OUT = 18.00 (59.1 LF 15" RCP @ 1.00%)
CI#27	RIM = 23.72 INV IN = 17.51 (120.7 LF 18" RCP @ 0.50%) INV IN = 17.51 (73.0 LF 15" RCP @ 2.06%) INV OUT = 17.31 (29.0 LF 18" RCP @ 0.54%)
CI#29	RIM = 23.66 INV IN = 18.32 (135.8 LF 18" RCP @ 0.50%) INV OUT = 18.12 (120.7 LF 18" RCP @ 0.50%)
CI#21	RIM = 23.53 INV IN = 18.00 (21.9 LF 15" RCP @ 0.51%) INV IN = 17.41 (59.1 LF 15" RCP @ 1.00%) INV OUT = 17.80 (62.4 LF 15" RCP @ 0.50%)
JB#26	RIM = 23.50 INV IN = 17.15 (29.0 LF 18" RCP @ 0.54%)
CI#24	RIM = 23.37 INV OUT = 18.43 (23.0 LF 15" RCP @ 0.52%)
CI#23	RIM = 23.36 INV IN = 18.31 (23.0 LF 15" RCP @ 0.52%) INV OUT = 18.11 (21.9 LF 15" RCP @ 0.51%)
YI#35	RIM = 23.20 INV OUT = 20.25 (67.8 LF 15" RCP @ 0.60%)
YI#10	RIM = 23.12 INV IN = 18.30 (157.1 LF 18" RCP @ 0.50%) INV IN = 18.30 (147.3 LF 18" RCP @ 0.50%) INV OUT = 18.20 (70.6 LF 18" RCP @ 0.50%)
JB#19	RIM = 22.97 INV IN = 17.12 (34.0 LF 15" RCP @ 0.50%)
YI#16	RIM = 22.90 INV IN = 19.85 (184.0 LF 15" RCP @ 0.50%) INV IN = 19.85 (67.8 LF 15" RCP @ 0.60%) INV OUT = 19.75 (108.8 LF 15" RCP @ 0.50%)
CI#30	RIM = 22.70 INV IN = 19.20 (108.7 LF 15" RCP @ 0.50%) INV OUT = 19.00 (135.8 LF 18" RCP @ 0.50%)
YI#15	RIM = 22.50 INV IN = 19.20 (108.8 LF 15" RCP @ 0.50%) INV OUT = 19.10 (157.1 LF 18" RCP @ 0.50%)
YI#9	RIM = 22.50 INV IN = 17.85 (70.6 LF 18" RCP @ 0.50%) INV OUT = 17.75 (64.5 LF 18" RCP @ 0.50%)
CI#20	RIM = 22.10 INV IN = 17.49 (62.4 LF 15" RCP @ 0.50%) INV OUT = 17.29 (34.0 LF 15" RCP @ 0.50%)
YI#14	RIM = 21.87 INV OUT = 19.90 (85.9 LF 12" RCP @ 0.50%)
CI#5	RIM = 21.22 INV OUT = 16.24 (22.9 LF 15" RCP @ 0.51%)
CI#4	RIM = 21.22 INV IN = 16.12 (22.9 LF 15" RCP @ 0.51%) INV OUT = 16.02 (72.1 LF 18" RCP @ 0.51%)
JB#8	RIM = 21.13 INV IN = 17.43 (64.5 LF 18" RCP @ 0.50%)
JB#3	RIM = 19.96 INV IN = 15.65 (72.1 LF 18" RCP @ 0.51%) INV OUT = 15.55 (13.5 LF 18" RCP @ 0.52%)
EX CI	RIM = 18.93 INV IN = 15.48 (13.5 LF 18" RCP @ 0.52%)
FES#32	RIM = 0.00

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TREE PROTECTION NOTE:

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PIPE TABLE					
UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	SIZE	LENGTH	SLOPE	MATERIAL
CI#27	JB#26	18"	28.95'	0.54%	RCP
CI#30	CI#29	18"	135.78'	0.50%	RCP
CI#31	CI#30	15"	108.71'	0.50%	RCP
CI#29	CI#27	18"	120.67'	0.50%	RCP
CI#28	CI#27	15"	73.01'	2.06%	RCP
CI#20	JB#19	15"	34.03'	0.50%	RCP
CI#21	CI#20	15"	62.42'	0.50%	RCP
CI#23	CI#21	15"	21.87'	0.51%	RCP
CI#24	CI#23	15"	22.97'	0.52%	RCP
CI#33	FES#32	15"	17.98'	0.50%	RCP
YI#34	CI#33	15"	91.01'	0.50%	RCP
CI#22	CI#21	15"	59.13'	1.00%	RCP
YI#9	JB#8	18"	64.54'	0.50%	RCP

PIPE TABLE					
UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	SIZE	LENGTH	SLOPE	MATERIAL
YI#10	YI#9	18"	70.60'	0.50%	RCP
YI#15	YI#10	18"	157.13'	0.50%	RCP
YI#16	YI#15	15"	108.80'	0.50%	RCP
YI#17	YI#16	15"	183.96'	0.50%	RCP
YI#11	YI#10	18"	147.33'	0.50%	RCP
CI#12	YI#11	18"	66.12'	0.50%	RCP
CI#4	JB#3	18"	72.10'	0.51%	RCP
CI#5	CI#4	15"	22.90'	0.51%	RCP
JB#3	EX CI	18"	13.54'	0.52%	RCP
JB#8	EX CI#7	18"	13.17'	0.99%	RCP
CI#13	CI#12	18"	19.86'	0.50%	RCP
YI#14	CI#13	12"	85.87'	0.50%	RCP
YI#16	YI#35	15"	67.81'	0.60%	RCP

GRADING & EROSION CONTROL NOTES

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10. ALL ISOLATION VALVES WITHIN THE "HOT BOX" SHALL BE ELECTRICALLY SUPERVISED.

LEGEND

- PROPERTY BOUNDARY
- EX ADJ LOT LINE
- EX. EASEMENTS
- EX SS — EX. SAN SEWER LINE
- EX WL — EX. WATER LINE
- EX SD — EX. STORM DRAIN LINE
- SS — NEW SAN SEWER LINE
- W — NEW WATER LINE
- NEW STORM DRAIN LINE
- RD — NEW ROOF DRAIN LINE
- WET — EX. WETLANDS
- TOPO MAJOR
- TOPO MINOR

NC GRID NAD83

NORTH

SCALE: 1" = 40'

0 40 80 120 160

DISTURBED AREA = 6.6 AC

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ARCHITECTURE + INTERIORS
219 N. Boylan Avenue
Raleigh, North Carolina 27603
t. 919.833.5400
www.isdesignpa.com

THE SITE GROUP
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email: bdm@thesitegroup.net

THE SITE GROUP, PLLC. LANDSCAPE ARCHITECTURAL CORPORATION CERT. NO. 353 NORTH CAROLINA RALEIGH, N.C.

Project

THE HEALING PLACE OF NEW HANOVER COUNTY

1000 MEDICAL CENTER DR
WILMINGTON, NC

Client

NEW HANOVER COUNTY

NEW HANOVER COUNTY • NORTH CAROLINA • ESTABLISHED 1729

Key Plan

Professional Seals

NORTH CAROLINA PROFESSIONAL SEAL 18303 ENGINEER EDWIN F. SCONFIENZA
9/14/20

No.	Description	Date
1	SCHEMATIC DESIGN SUBMITTAL	06/19/2018
2	GMP DOCUMENTS	12/21/2018
3	REVISED GMP DOCUMENTS	01/07/2019
4	PRE-TRC CONSULTATION	03/24/2020
5	REVISED PER PLANNING (WALTON COMMENTS)	03/25/2020
6	DD DOCUMENTS	04/08/2020
7	PLAN REVIEW DOCUMENTS	07/01/2020
8	PLAN REVIEW DOCUMENTS	09/14/2020

Project Code: HTW

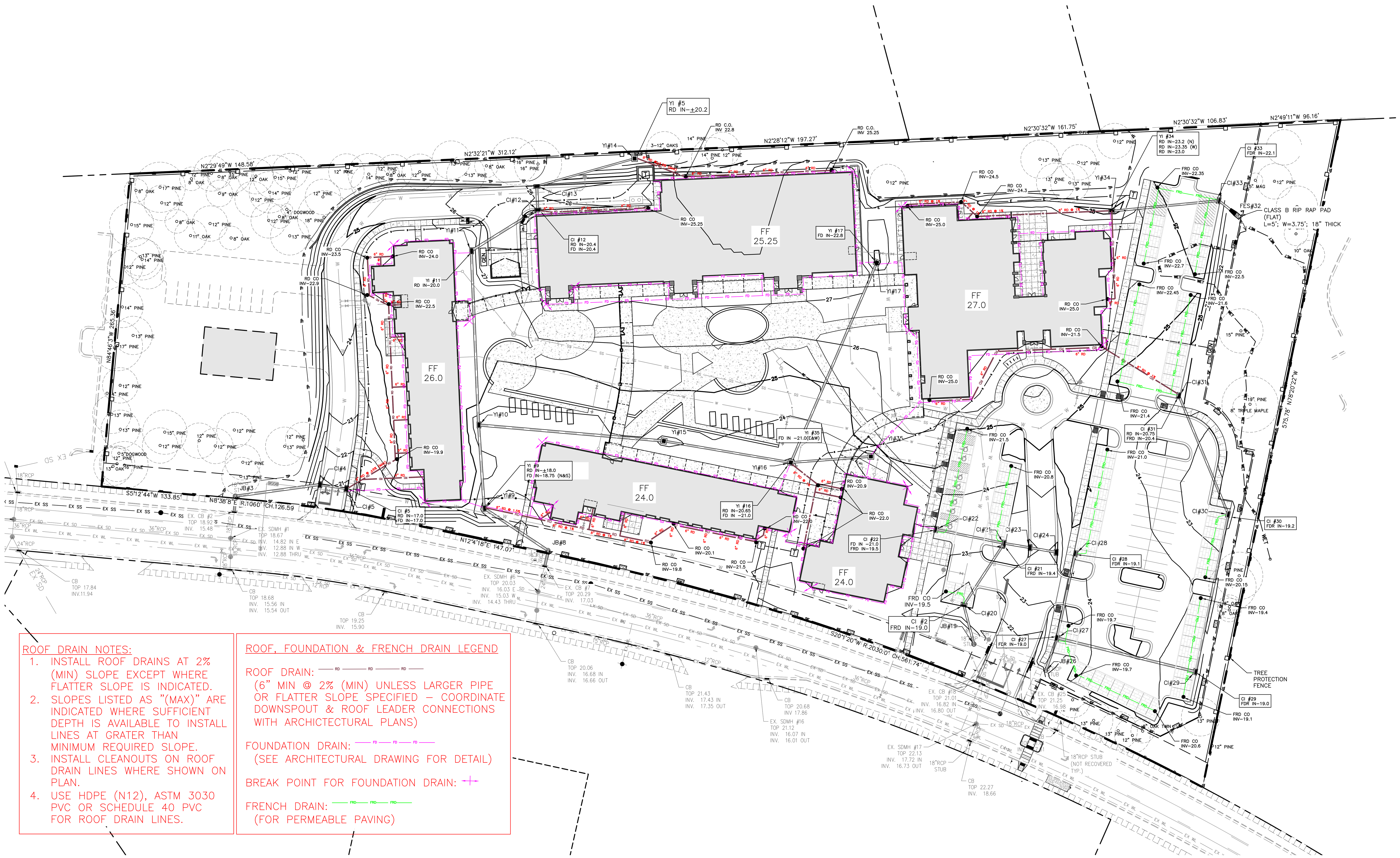
Sheet Title

GRADING PLAN

Original drawing is 42 x 30 Do not scale contents of this drawing

Sheet Number

SITE 300



ROOF DRAIN NOTES:

1. INSTALL ROOF DRAINS AT 2% (MIN) SLOPE EXCEPT WHERE FLATTER SLOPE IS INDICATED.
2. SLOPES LISTED AS "(MAX)" ARE INDICATED WHERE SUFFICIENT DEPTH IS AVAILABLE TO INSTALL LINES AT GRATER THAN MINIMUM REQUIRED SLOPE.
3. INSTALL CLEANOUTS ON ROOF DRAIN LINES WHERE SHOWN ON PLAN.
4. USE HDPE (N12), ASTM 3030 PVC OR SCHEDULE 40 PVC FOR ROOF DRAIN LINES.

ROOF, FOUNDATION & FRENCH DRAIN LEGEND

ROOF DRAIN: — RD — RD — RD —
(6" MIN @ 2% (MIN) UNLESS LARGER PIPE OR FLATTER SLOPE SPECIFIED – COORDINATE DOWNSPOUT & ROOF LEADER CONNECTIONS WITH ARCHITECTURAL PLANS)

FOUNDATION DRAIN: — FD — FD — FD —
(SEE ARCHITECTURAL DRAWING FOR DETAIL)

BREAK POINT FOR FOUNDATION DRAIN:

FRENCH DRAIN: — FRD — FRD — FRD —
(FOR PERMEABLE PAVING)

STORM SEWER STRUCTURE TABLE	
STRUCTURE NAME:	DETAILS:
CI#13	RIM = 26.21 INV IN = 19.47 (85.9 LF 12" RCP @ 0.50%) INV OUT = 19.47 (19.9 LF 18" RCP @ 0.50%)
CI#12	RIM = 26.21 INV IN = 19.37 (19.9 LF 18" RCP @ 0.50%) INV OUT = 19.37 (66.1 LF 18" RCP @ 0.50%)
YI#11	RIM = 24.98 INV IN = 19.04 (66.1 LF 18" RCP @ 0.50%) INV OUT = 19.04 (147.3 LF 18" RCP @ 0.50%)
CI#33	RIM = 24.64 INV IN = 22.19 (91.0 LF 15" RCP @ 0.50%) INV OUT = 22.09 (18.0 LF 15" RCP @ 0.50%)
YI#17	RIM = 24.61 INV OUT = 20.77 (184.0 LF 15" RCP @ 0.50%)
CI#31	RIM = 24.54 INV OUT = 19.74 (108.7 LF 15" RCP @ 0.50%)
YI#34	RIM = 24.53 INV OUT = 22.64 (91.0 LF 15" RCP @ 0.50%)
CI#28	RIM = 24.53 INV OUT = 19.01 (73.0 LF 15" RCP @ 2.06%)
CI#22	RIM = 23.95 INV OUT = 18.00 (59.1 LF 15" RCP @ 1.00%)
CI#27	RIM = 23.72 INV IN = 17.51 (120.7 LF 18" RCP @ 0.50%) INV IN = 17.51 (73.0 LF 15" RCP @ 2.06%) INV OUT = 17.31 (29.0 LF 18" RCP @ 0.54%)
CI#29	RIM = 23.66 INV IN = 18.32 (135.8 LF 18" RCP @ 0.50%) INV OUT = 18.12 (120.7 LF 18" RCP @ 0.50%)
CI#21	RIM = 23.53 INV IN = 18.00 (21.9 LF 15" RCP @ 0.51%) INV IN = 17.41 (59.1 LF 15" RCP @ 1.00%) INV OUT = 17.80 (62.4 LF 15" RCP @ 0.50%)
JB#26	RIM = 23.50 INV IN = 17.15 (29.0 LF 18" RCP @ 0.54%)
CI#24	RIM = 23.37 INV OUT = 18.43 (23.0 LF 15" RCP @ 0.52%)
CI#23	RIM = 23.36 INV IN = 18.31 (23.0 LF 15" RCP @ 0.52%) INV OUT = 18.11 (21.9 LF 15" RCP @ 0.51%)
YI#35	RIM = 23.20 INV OUT = 20.25 (67.8 LF 15" RCP @ 0.60%)
YI#10	RIM = 23.12 INV IN = 18.30 (157.1 LF 18" RCP @ 0.50%) INV IN = 18.30 (147.3 LF 18" RCP @ 0.50%) INV OUT = 18.20 (70.6 LF 18" RCP @ 0.50%)
JB#19	RIM = 22.97 INV IN = 17.12 (34.0 LF 15" RCP @ 0.50%)
YI#16	RIM = 22.90 INV IN = 19.85 (184.0 LF 15" RCP @ 0.50%) INV IN = 19.85 (67.8 LF 15" RCP @ 0.60%) INV OUT = 19.75 (108.8 LF 15" RCP @ 0.50%)
CI#30	RIM = 22.70 INV IN = 19.20 (108.7 LF 15" RCP @ 0.50%) INV OUT = 19.00 (135.8 LF 18" RCP @ 0.50%)
YI#15	RIM = 22.50 INV IN = 19.20 (108.8 LF 15" RCP @ 0.50%) INV OUT = 19.10 (157.1 LF 18" RCP @ 0.50%)
YI#9	RIM = 22.50 INV IN = 17.85 (70.6 LF 18" RCP @ 0.50%) INV OUT = 17.75 (64.5 LF 18" RCP @ 0.50%)
CI#20	RIM = 22.10 INV IN = 17.49 (62.4 LF 15" RCP @ 0.50%) INV OUT = 17.29 (34.0 LF 15" RCP @ 0.50%)
YI#14	RIM = 21.87 INV OUT = 19.90 (85.9 LF 12" RCP @ 0.50%)
CI#5	RIM = 21.22 INV OUT = 16.24 (22.9 LF 15" RCP @ 0.51%)
CI#4	RIM = 21.22 INV IN = 16.12 (22.9 LF 15" RCP @ 0.51%) INV OUT = 16.02 (72.1 LF 18" RCP @ 0.51%)
JB#8	RIM = 21.13 INV IN = 17.43 (64.5 LF 18" RCP @ 0.50%)
JB#3	RIM = 19.96 INV IN = 15.65 (72.1 LF 18" RCP @ 0.51%) INV OUT = 15.55 (13.5 LF 18" RCP @ 0.52%)
EX CI	RIM = 18.93 INV IN = 15.48 (13.5 LF 18" RCP @ 0.52%)
FES#32	RIM = 0.00

FLOODPLAIN NOTE:

THIS SITE IS NOT IN ANY SPECIAL FLOOD HAZARD AREAS OR FUTURE CONDITIONS FLOOD HAZARD AREAS, AS SHOWN ON FIRM PANEL 3701713126K DATED MAY 2, 2006

TREE PROTECTION NOTE:

NO CONSTRUCTION EQUIPMENT IS ALLOWED ON THE SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING HAS BEEN INSTALLED AND APPROVED.

PIPE TABLE					
UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	SIZE	LENGTH	SLOPE	MATERIAL
CI#27	JB#26	18"	28.95'	0.54%	RCP
CI#30	CI#29	18"	135.78'	0.50%	RCP
CI#31	CI#30	15"	108.71'	0.50%	RCP
CI#29	CI#27	18"	120.67'	0.50%	RCP
CI#28	CI#27	15"	73.01'	2.06%	RCP
CI#20	JB#19	15"	34.03'	0.50%	RCP
CI#21	CI#20	15"	62.42'	0.50%	RCP
CI#23	CI#21	15"	21.87'	0.51%	RCP
CI#24	CI#23	15"	22.97'	0.52%	RCP
CI#33	FES#32	15"	17.98'	0.50%	RCP
YI#34	CI#33	15"	91.01'	0.50%	RCP
CI#22	CI#21	15"	59.13'	1.00%	RCP
YI#9	JB#8	18"	64.54'	0.50%	RCP

PIPE TABLE					
UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	SIZE	LENGTH	SLOPE	MATERIAL
YI#10	YI#9	18"	70.60'	0.50%	RCP
YI#15	YI#10	18"	157.13'	0.50%	RCP
YI#16	YI#15	15"	108.80'	0.50%	RCP
YI#17	YI#16	15"	183.96'	0.50%	RCP
YI#11	YI#10	18"	147.33'	0.50%	RCP
CI#12	YI#11	18"	66.12'	0.50%	RCP
CI#4	JB#3	18"	72.10'	0.51%	RCP
CI#5	CI#4	15"	22.90'	0.51%	RCP
JB#3	EX CI	18"	13.54'	0.52%	RCP
JB#8	EX CI#7	18"	13.17'	0.99%	RCP
CI#13	CI#12	18"	19.86'	0.50%	RCP
YI#14	CI#13	12"	85.87'	0.50%	RCP
YI#16	YI#35	15"	67.81'	0.60%	RCP

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LEGEND

	PROPERTY BOUNDARY
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EX WL	EX. WATER LINE
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NC GRID NAD83

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SCALE: 1" = 40'

0 40 80 120 160

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Project

THE HEALING PLACE OF NEW HANOVER COUNTY

1000 MEDICAL CENTER DR
WILMINGTON, NC

Client

NEW HANOVER COUNTY

NEW HANOVER COUNTY • NORTH CAROLINA • ESTABLISHED 1729

Key Plan

Professional Seals

NORTH CAROLINA PROFESSIONAL SEAL 18303 ENGINEER EDWIN F. SCONFIENZA

No.	Description	Date
1	PLAN REVIEW DOCUMENTS	09/14/2020

Project Code: HTW

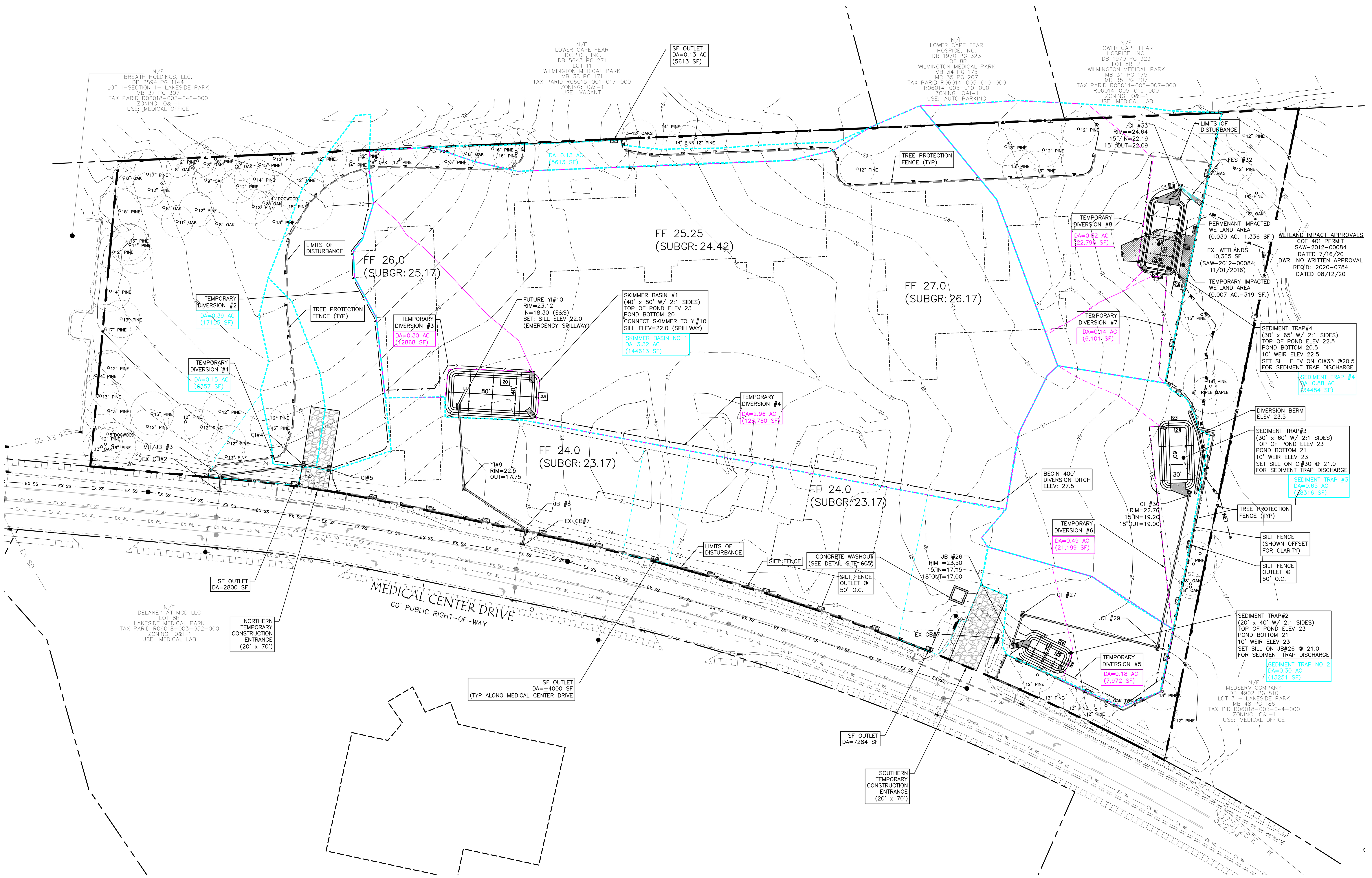
Sheet Title

ROOF , FRENCH & FOUNDATION DRAIN PLAN

Original drawing is 42 x 30 Do not scale contents of this drawing

Sheet Number

SITE 301



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TEMPORARY DIVERSION DITCH SCHEDULE

DIVERSION DITCH #	DA	Q10	LENGTH	SLOPE	FLOW DEPTH	VEL	SHEAR FORCE	DITCH TYPE	LINER TYPE	LINER DEPTH
1	0.15	0.22	25'	0.50%	1.4"	0.84 FPS	0.04 #/SF	2' FBD	JUTE NET	1'
2	0.39	0.57	300'	2.3%	1.6"	1.90 FPS	0.19 #/SF	2' FBD	JUTE NET	1'
3	0.34	0.50	150'	1.3%	1.7"	1.49 FPS	0.11 #/SF	2' FBD	JUTE NET	1'
4	2.96	4.3	415'	0.7%	6.1"	2.85 FPS	0.22 #/SF	2' FBD	JUTE NET	1'
5	0.18	0.26	140'	0.7%	1.4"	1.00 FPS	0.05 #/SF	2' FBD	JUTE NET	1'
6	0.49	0.72	175'	0.60%	2.6"	1.31 FPS	0.08 #/SF	2' FBD	JUTE NET	1'
7	0.14	0.20	90'	2.2%	1.0"	1.38 FPS	0.11 #/SF	2' FBD	JUTE NET	1'
8	0.52	0.76	95'	2.4%	2.0"	1.92 FPS	0.25 #/SF	2' FBD	S75	1

NOTE: ALL DIVERSION DITCHES DESIGNED AS 2' FLAT BOTTOM DITCHES WITH 2:1 SIDES & JUTE NET LINING TO 1' DEPTH OF FLOW.

CONSTRUCTION SEQUENCE - A WORK IN PROGRESS

1. Submit documentation required under the site NPDES stormwater permit for construction activity (NCG010000) to Stormwater Inspections throughout the project.
2. Prior to beginning construction, call the Fayetteville DEMLR Erosion Control Regional Office at (910) 433-3394 (Mike Lawyer, Environmental Specialist) to schedule an on-site pre-construction meeting.
3. Install all temporary erosion and sediment control measures as shown on INITIAL EROSION CONTROL PLANS. Limit clearing and land disturbing activity to only the area necessary to install the permitted measures.
   a. Install tree protection fence and obtain approval from City of Wilmington.
   b. Install silt fence with silt fence outlets around perimeter of site.
   c. Connect to Ex CB #2 and install MH/JB #2, CI #3, CI #4, northern construction entrance and Temporary Diversion Ditches 1 & 2. Install inlet protection on inlets and jute net liners in ditches as they are constructed. Perimeter silt fence may be removed to install piping. Reinstall silt fence, replace sidewalk and stabilize disturbed areas as soon as practical after installation is complete beyond silt fence.
   d. Connect to EX CB #7 and install MH/JB #8, YI #9 & YI #10. Set sill of YI #10 at elev. 22.0 to act as spillway for Skimmer Basin. Excavate for Skimmer Basin #1 & install skimmer & coir or jute net baffels. Install Temporary Diversion Ditches 3 & 4. Install inlet protection on inlets and jute net liners in ditches as they are constructed.
   e. Install southern construction entrance.
   f. Install JB #26 over end of 18" stub out of EX CB #25. Set sill elevation of JB #26 at elev. 21.0 to accept discharge from Sediment Trap #2. Excavate for Sediment Trap #2 & install coir or jute net baffles and Sediment Trap outlet as shown on standard details. Armour channel between Sediment Trap & JB #26 to prevent erosion. Install Temporary Diversion Ditch 5 with jute net liners in ditch as it is constructed.
   g. Install piping and CI's 27, 28 & 30. Install inlet protection as inlets are constructed. Set sill elevation on CI 30 at elevation 21.0 to accept discharge from Sediment Trap #3.
   h. Install Diversion Ditch #6 & Sediment Trap #3. Install diversion berm at elevation 23.5 along south side of Sediment Trap #3 as Sediment Trap is being installed. Install jute net lining in ditch as ditch is being installed. Install coir or jute net baffles and sediment trap outlet in Sediment Trap #3.
   i. Install FES 33 & CI 32. Leave gap in silt fence to allow discharge from FES 33 to leave site. Set sill elevation on CI 32 at elev. 20.5 to accept discharge from Sediment Trap 4.
   j. Install Diversion Ditches 7 & 8 Sediment Trap #4.. Install jute net lining in ditch as ditch is being installed. Install coir or jute net baffles and sediment trap outlet in Sediment Trap #4.
4. When all initial Erosion Control Measures are complete, call (910) 433-3394 (Mike Lawyer, Environmental Specialist) to schedule a site inspection.
5. Install storm sewer and protect inlets with block and gravel inlet controls, sediment traps or other approved measures as shown on the plan. Begin construction, building, etc.
6. Mass grade site and install utilities to building pads. Stabilize site as areas are brought up to finish grade with vegetation, paving, ditch linings, etc. Seed and mulch denuded areas as shown on the NPDES Ground Stabilization chart.
7. Erosion control measures shall be inspected and maintained, if needed, at least once per week and after every rainfall event.
8. Stabilization is required per the NPDES Plan for any phase of grading or inactivity on project site.
9. When construction is complete and all areas are stabilized completely, call (910) 433-3394 (Mike Lawyer, Environmental Specialist) for an inspection.
10. If site is approved, remove temporary diversion, silt fence, sediment basins, etc., and seed out or stabilize any resulting bare areas. All remaining permanent erosion control devices, such as velocity dissipators, etc., (see GRADING PLANS) should now be installed.
11. When vegetation has become established, call (910) 433-3394 (Mike Lawyer, Environmental Specialist) for a final site inspection by the. Obtain a Certificate of Compliance.

LEGEND

	PROPERTY BOUNDARY
	EX. ADJ LOT LINE
	EX. EASEMENTS
EX SS	EX. SAN SEWER LINE
EX WL	EX. WATER LINE
EX SD	EX. STORM DRAIN LINE
SS	NEW SAN SEWER LINE
W	NEW WATER LINE
	NEW STORM DRAIN LINE
SF	SILT FENCE
TP	TREE PROTECTION FENCE
>	TEMPORARY DIVERSION DITCH
WET	EX. WETLANDS
	TOPO MAJOR
	TOPO MINOR

EROSION CONTROL LEGEND

	MAJOR DRAINAGE BOUNDARY
	MINOR DRAINAGE BOUNDARY
	FUTURE BUILDING FOOTPRINT
>	DIVERSION DITCH
TP	TREE PROTECTION FENCE
SF	SILT FENCE
SF	SILT FENCE OUTLET

NC GRID NAD83

NORTH

SCALE: 1" = 40'

0 40 80 120 160

DISTURBED AREA = 6.6 AC

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Project

THE HEALING PLACE OF NEW HANOVER COUNTY

1000 MEDICAL CENTER DR
WILMINGTON, NC

Client

NEW HANOVER COUNTY

Key Plan

Professional Seals

NORTH CAROLINA PROFESSIONAL SEAL 18303 ENGINEER EDWIN F. SCONFIENZA

9/14/20

No.	Description	Date
1	SCHEMATIC DESIGN SUBMITTAL	06/19/2018
2	GMP DOCUMENTS	12/21/2018
3	REVISED GMP DOCUMENTS	01/07/2019
4	DD DOCUMENTS	04/08/2020
5	PLAN REVIEW DOCUMENTS	07/01/2020
6	PLAN REVIEW DOCUMENTS	09/14/2020

Project Code: HTW

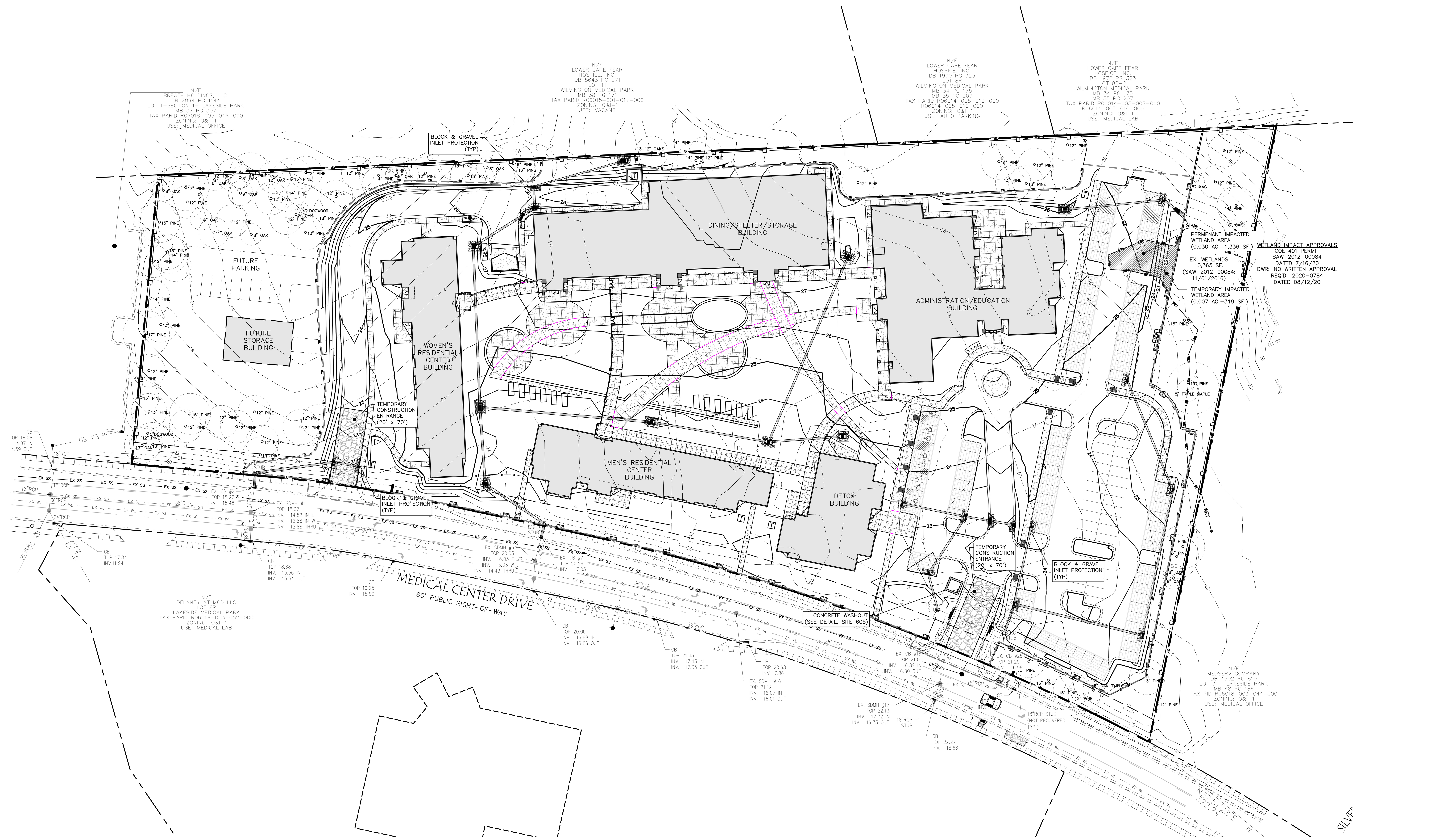
Sheet Title

INITIAL EROSION CONTROL PLAN

Original drawing is 42 x 30 Do not scale contents of this drawing

Sheet Number

SITE 302



NPDES GROUND STABILIZATION

SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES*	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED
SLOPES 3:1 OR FLATTER	14 DAYS	7–DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND HQW ZONES)

* THERE ARE NO HQW ZONES WITHIN THE PROJECT AREA.

GRADING & EROSION CONTROL NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF WILMINGTON, NEW HANOVER COUNTY AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (811) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
3. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
4. BOUNDARY AND TOPOGRAPHICAL INFORMATION IS TAKEN FROM A SURVEY BY STROUD ENGINEERING P.A. FOR TRILLIUM HEALTH RESOURCES DATED MAY 19, 2106. AN ADDITIONAL WETLAND AND TREE INFORMATION IS TAKEN FROM A SURVEY BY BATEMAN CIVIL SURVEY CO. DATED SEPTEMBER 9, 2016.
5. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING, COORDINATING, AND PAYMENT FOR ALL NECESSARY LOCATING SERVICES INCLUDING INDEPENDENT LOCATING SERVICES. THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES LOCATED AT LEAST 48 HOURS PRIOR TO BEGINNING DEMOLITION, EXCAVATION, OR ANY OTHER FORM OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OR ANY DISCREPANCIES OR CONFLICTS.
7. EXISTING IMPROVEMENTS DAMAGED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED OR REPLACED TO ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL PERMITS, INSPECTIONS, CERTIFICATIONS, AND OTHER REQUIREMENTS WHICH MUST BE MET UNDER THIS CONTRACT ARE OBTAINED.
9. IF DEPARTURES FROM THE PROJECT DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREFOR SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW PRIOR TO CONSTRUCTION. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVE.
10. THE ENGINEER DISCLAIMS ANY ROLE IN THE CONSTRUCTION MEANS AND/OR METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
11. THE STREETS IN FRONT OF THE PROJECT WILL BE KEPT CLEAN AT ALL TIMES OR A WASH STATION WILL BE REQUIRED.
12. PRIOR TO ANY CLEARING, GRADING, OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
13. CONTRACTOR SHALL CALL TRAFFIC ENGINEERING AT 341–7888 FORTY–EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.
14. NO LAND DISTURBANCE INCLUDING TREE REMOVAL IS TO OCCUR OUTSIDE THE LIMITS OF DISTURBANCE SHOWN ON THE PLANS.
15. PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. LAND CLEARING AND CONSTRUCTION CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTION ON TREE PROTECTION REQUIREMENTS AND METHODS.

CONSTRUCTION SEQUENCE

1. Submit documentation required under the site NPDES stormwater permit for construction activity (NCG010000) to Stormwater Inspections throughout the project.
2. Prior to beginning construction, call the Fayetteville DEMLR Erosion Control Regional Office at (910) 433–3394 (Mike Lawyer, Environmental Specialist) to schedule an on–site pre–construction meeting.
3. Install all temporary erosion and sediment control measures as shown on INITIAL EROSION CONTROL PLANS. Limit clearing and land disturbing activity to only the area necessary to install the permitted measures.
4. Call (910) 433–3394 (Mike Lawyer, Environmental Specialist) to schedule a site inspection.
5. Install storm sewer and protect inlets with block and gravel inlet controls, sediment traps or other approved measures as shown on the plan. Begin construction, building, etc.
6. Stabilize site as areas are brought up to finish grade with vegetation, paving, ditch linings, etc. Seed and mulch denuded areas as shown on the NPDES Ground Stabilization chart.
7. Erosion control measures shall be inspected and maintained, if needed, at least once per week and after every rainfall event.
8. Stabilization is required per the NPDES Plan for any phase of grading or inactivity on project site.
9. When construction is complete and all areas are stabilized completely, call (910) 433–3394 (Mike Lawyer, Environmental Specialist) for an inspection.
10. If site is approved, remove temporary diversion, silt fence, sediment basins, etc., and seed out or stabilize any resulting bare areas. All remaining permanent erosion control devices, such as permanent BMP ponds, velocity dissipators, etc., (see GRADING & DRAINAGE PLANS) should now be installed.
11. When vegetation has become established, call (910) 433–3394 (Mike Lawyer, Environmental Specialist) for a final site inspection by the. Obtain a Certificate of Compliance.

FLOODPLAIN NOTE:

THIS SITE IS NOT IN ANY SPECIAL FLOOD HAZARD AREAS OR FUTURE CONDITIONS FLOOD HAZARD AREAS, AS SHOWN ON FIRM PANEL 3701713126K DATED MAY 2, 2006

LEGEND

	PROPERTY BOUNDARY
	EX. ADJ LOT LINE
	EX. EASEMENTS
EX SS	EX. SAN SEWER LINE
EX WL	EX. WATER LINE
EX SD	EX. STORM DRAIN LINE
SS	NEW SAN SEWER LINE
W	NEW WATER LINE
	NEW STORM DRAIN LINE
SF	SILT FENCE
TP	TREE PROTECTION FENCE
WET	EX. WETLANDS
	TOPO MAJOR
	TOPO MINOR

EROSION CONTROL LEGEND

	MAJOR DRAINAGE BOUNDARY
	MINOR DRAINAGE BOUNDARY
	FUTURE BUILDING FOOTPRINT
	DIVERSION DITCH
TP	TREE PROTECTION FENCE
SF	SILT FENCE
SF	SILT FENCE OUTLET

NC GRID NAD83

NORTH

SCALE: 1" = 40'

0 40 80 120 160

DISTURBED AREA = 6.6 AC

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THE SITE GROUP, PLLC. LANDSCAPE ARCHITECTURAL CORPORATION CERT. NO. 353 NORTH CAROLINA RALEIGH, N.C.

Project

THE HEALING PLACE OF NEW HANOVER COUNTY

1000 MEDICAL CENTER DR
WILMINGTON, NC

Client

NEW HANOVER COUNTY

Key Plan

Professional Seals

NORTH CAROLINA PROFESSIONAL SEAL 18303 ENGINEER EDWIN F. SCONFIENZA
9/14/20

No.	Description	Date
1	SCHEMATIC DESIGN SUBMITTAL	06/19/2018
2	GMP DOCUMENTS	12/21/2018
3	REVISED GMP DOCUMENTS	01/07/2019
4	DD DOCUMENTS	04/08/2020
5	PLAN REVIEW DOCUMENTS	07/01/2020
6	PLAN REVIEW DOCUMENTS	09/14/2020

Project Code: HTW

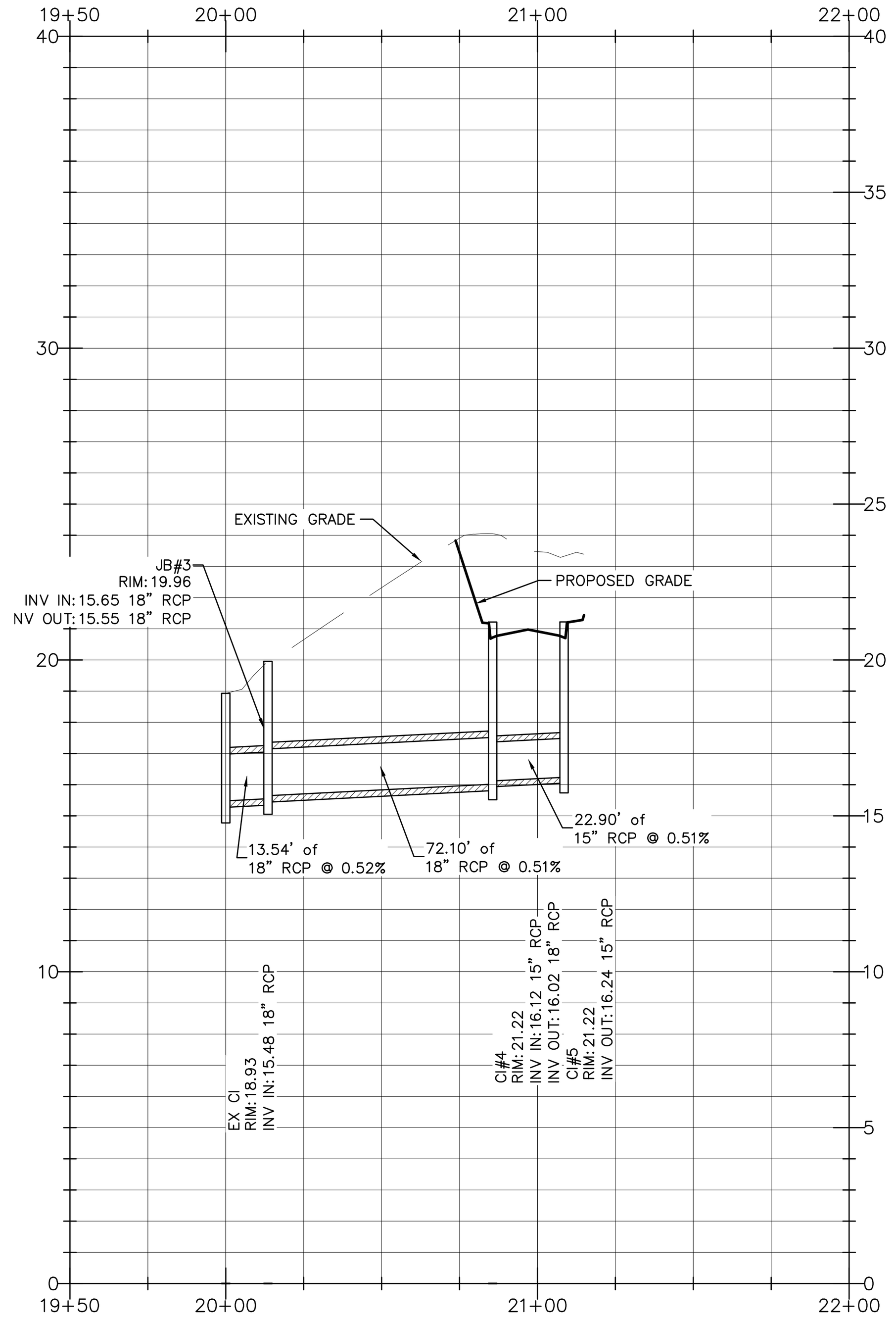
Sheet Title

OVERALL EROSION CONTROL PLAN

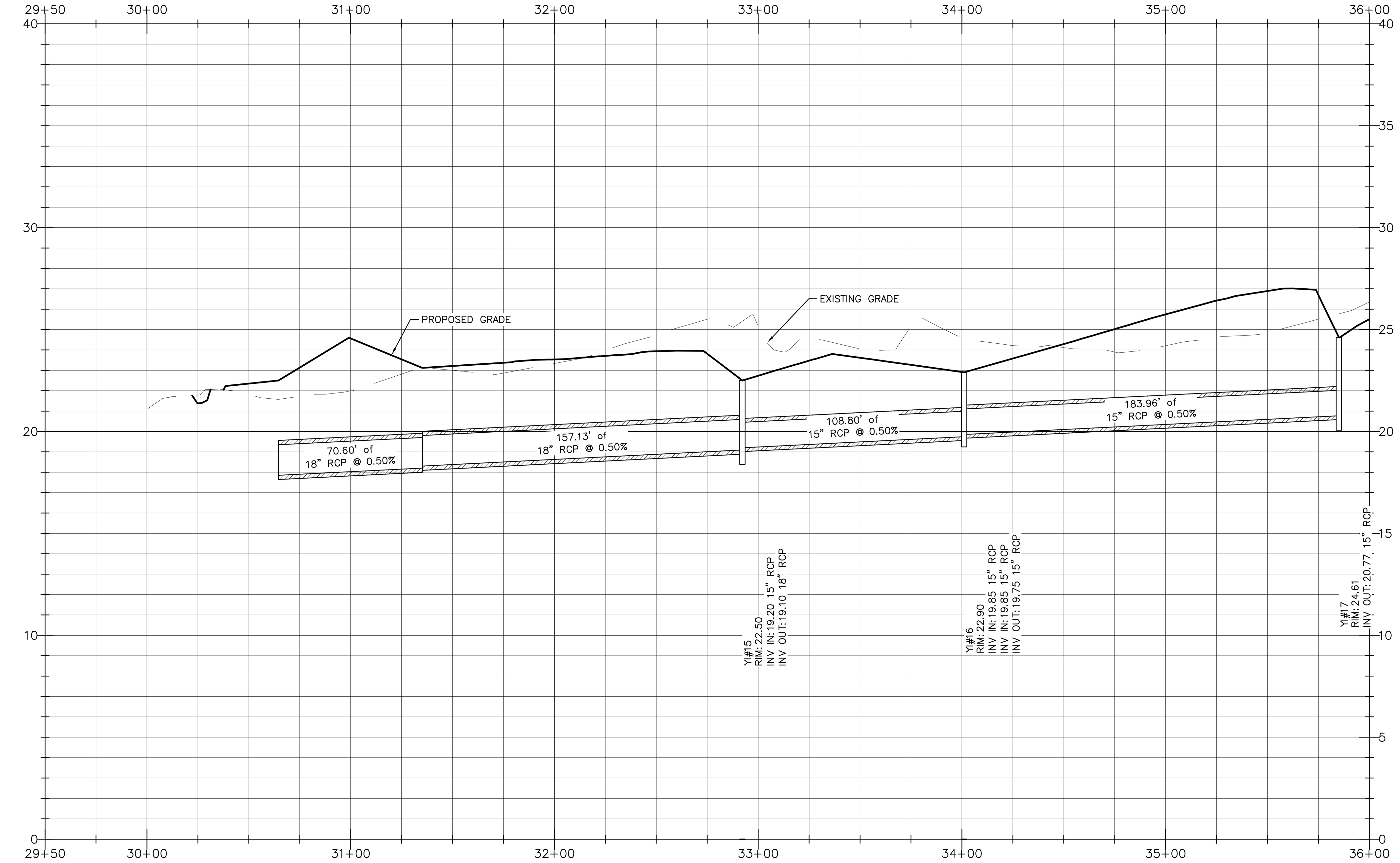
Original drawing is 42 x 30 Do not scale contents of this drawing

Sheet Number

SITE 303



PROFILE: 1"=40' HORIZ.
1"= 4' VERT.



PROFILE: 1"=40' HORIZ.
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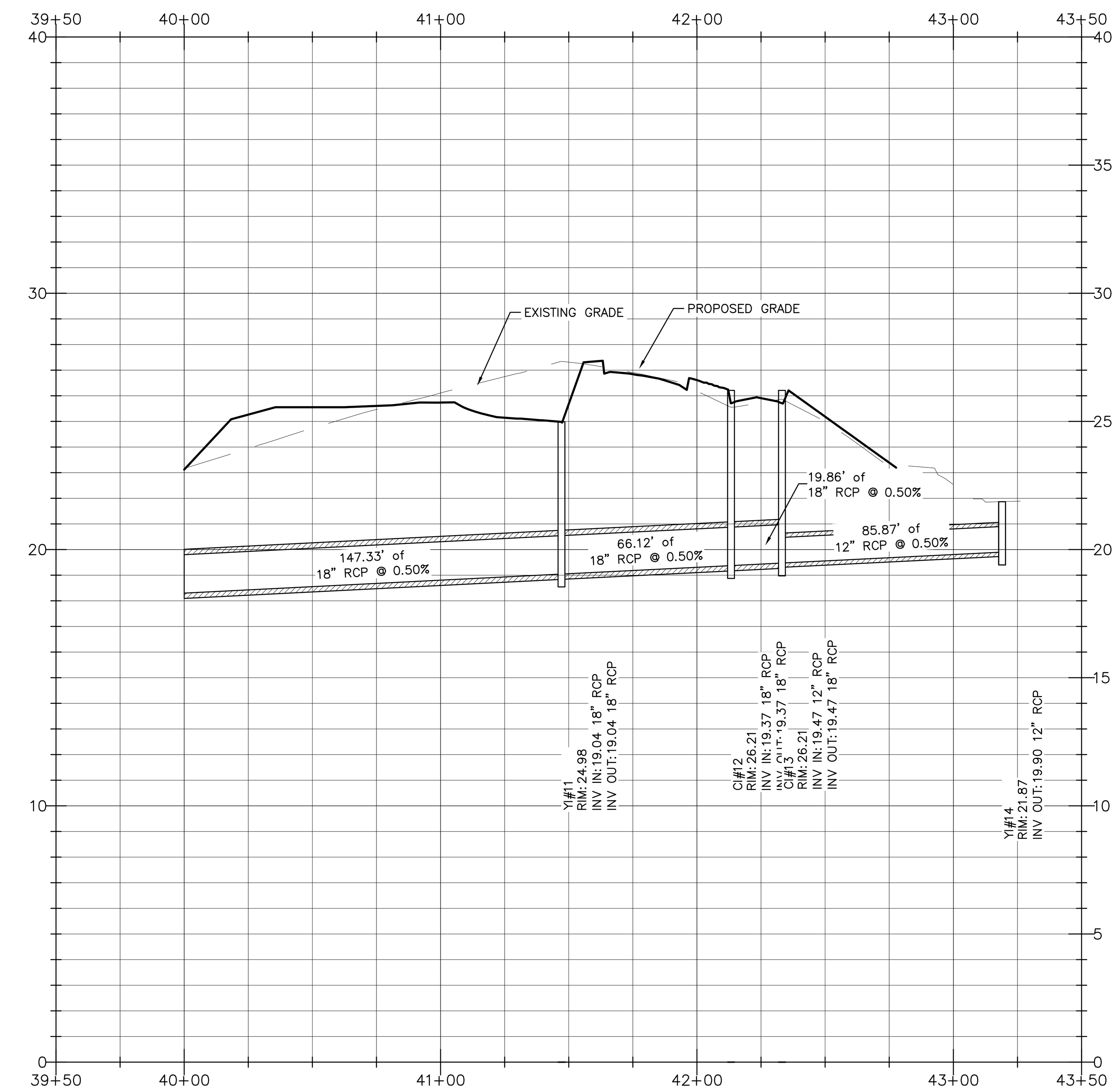

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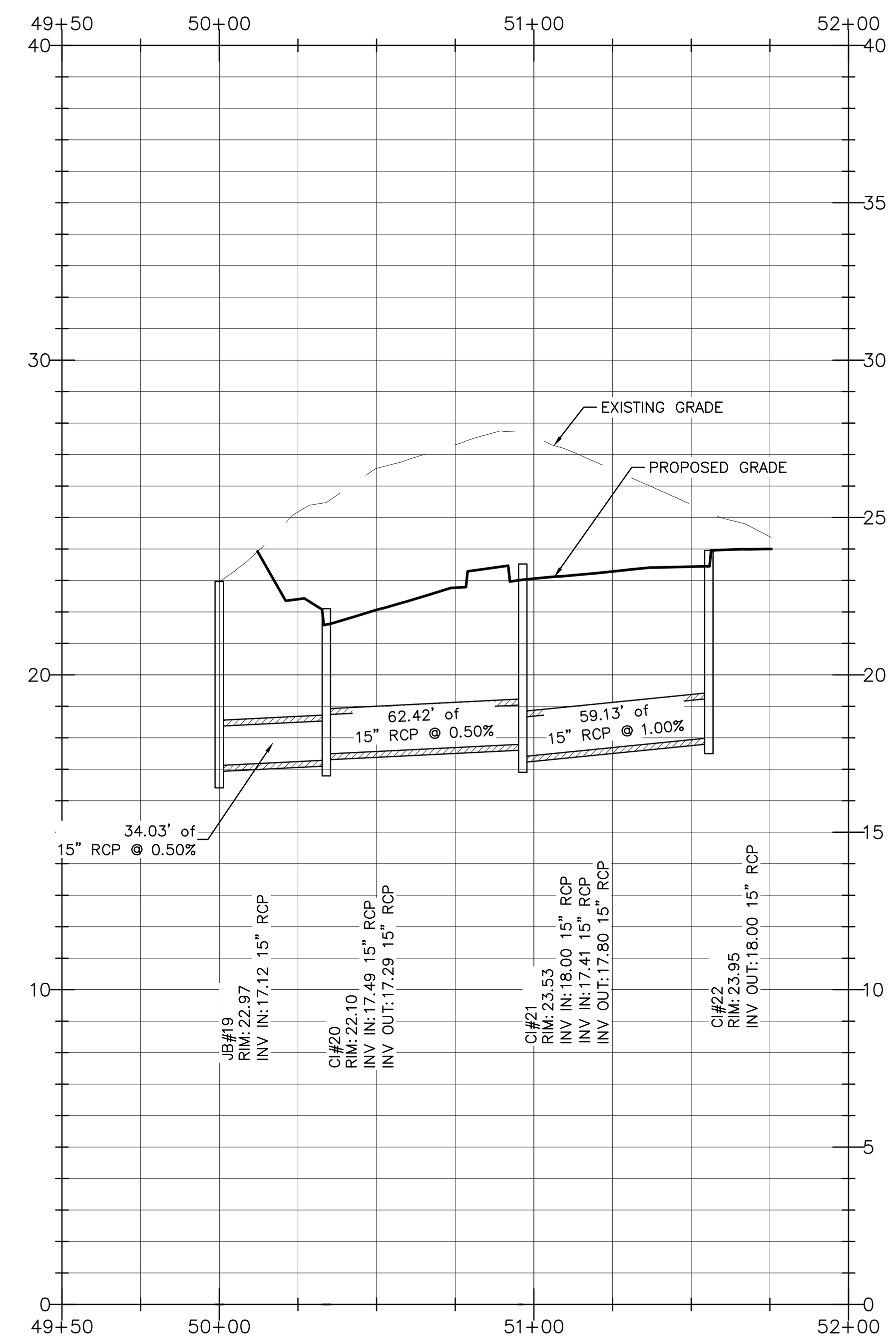

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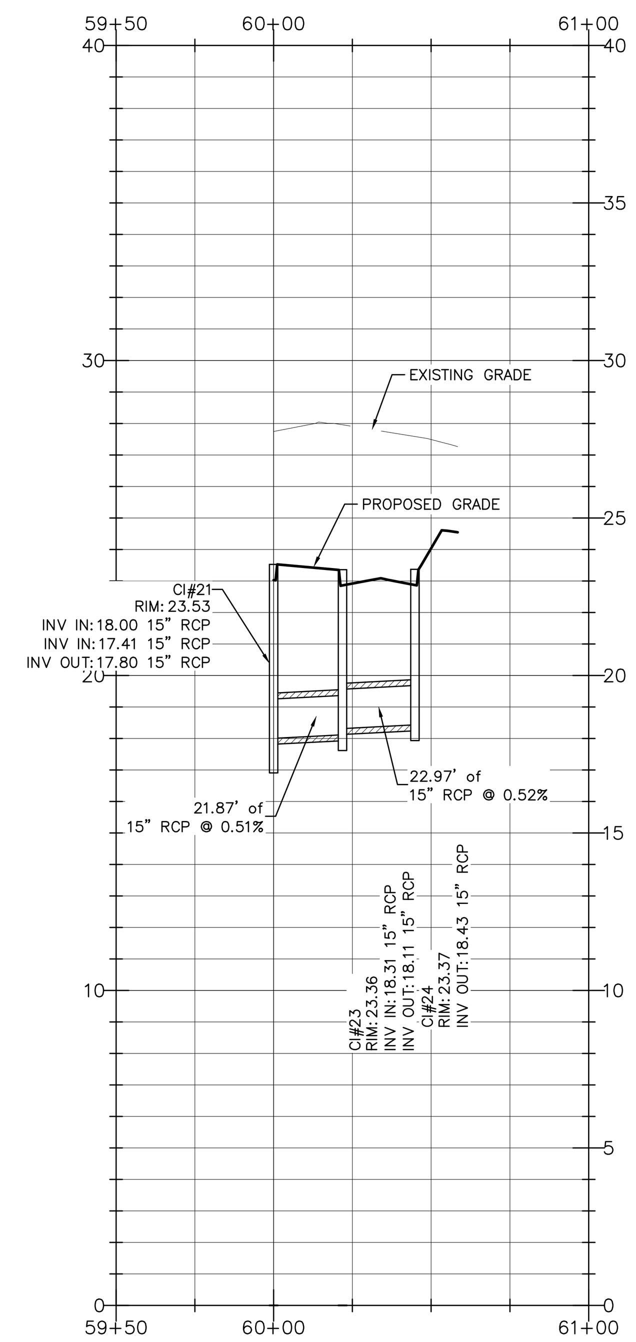

PROFILE: 1"=40' HORIZ.
1"= 4' VERT.

NOTE:
ALL RCP PIPE TO MEET ASTM STD C76–IV
WITH CLASS BEDDING EXCEPT AS NOTED.

GENERAL NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF WILMINGTON AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
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6. CONTRACTOR SHALL CALL TRAFFIC ENGINEERING AT 341–7888 FORTY–EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.
7. NO LAND DISTURBANCE INCLUDING TREE REMOVAL IS TO OCCUR OUTSIDE THE LIMITS OF DISTURBANCE SHOWN ON THE PLANS.
8. PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. LAND CLEARING AND CONSTRUCTION CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTION ON TREE PROTECTION REQUIREMENTS AND METHODS.

FLOODPLAIN NOTE:

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Project

THE HEALING PLACE OF NEW HANOVER COUNTY

1000 MEDICAL CENTER DR
WILMINGTON, NC

Client

NEW HANOVER COUNTY

Key Plan

Professional Seals

NORTH CAROLINA PROFESSIONAL SEAL 18303 ENGINEER EDWIN F. SCONFIENZA
Edwin F. Sconfienza
9/14/20

N

No.	Description	Date
1	GMP DOCUMENTS	01/07/2019
2	DD DOCUMENTS	04/08/2020
3	PLAN REVIEW DOCUMENTS	07/01/2020
4	PLAN REVIEW DOCUMENTS	09/14/2020

Project Code: HTW

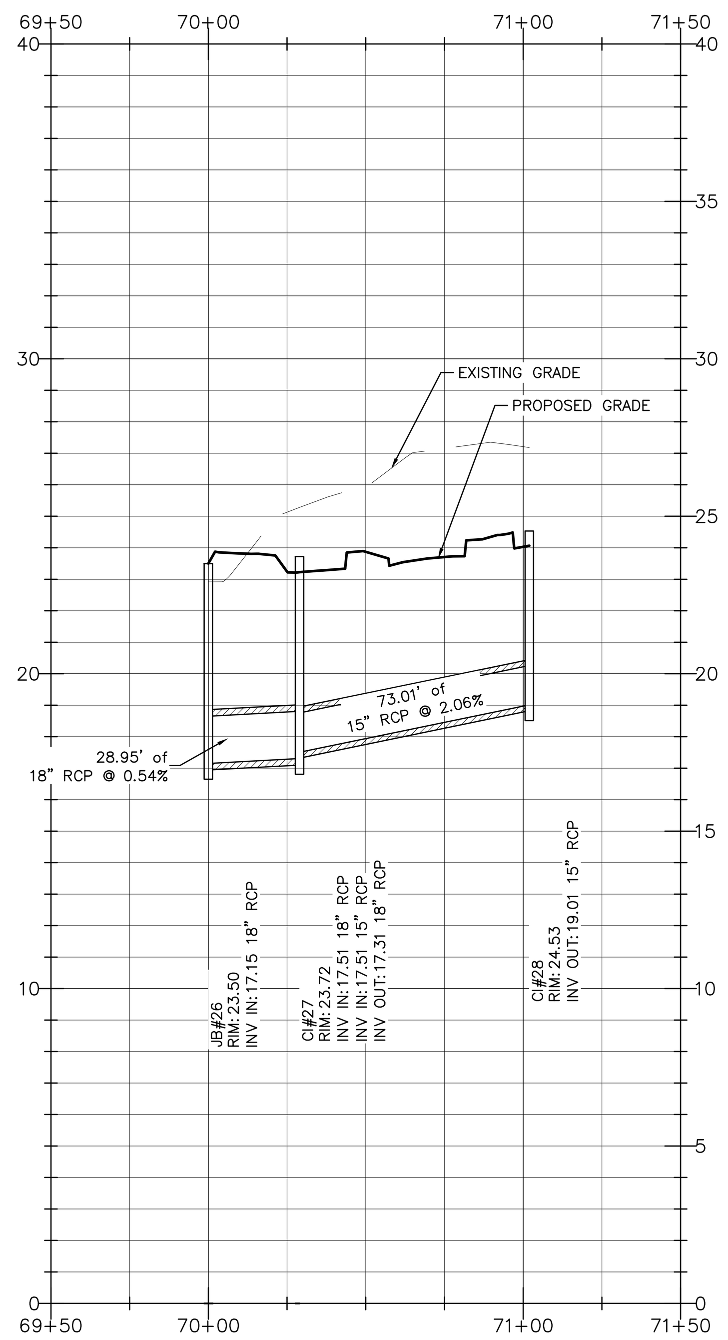
Sheet Title

STORM DRAINAGE PROFILES

Sheet Number

SITE 304

Station



PROFILE: 1"=40' HORIZ.
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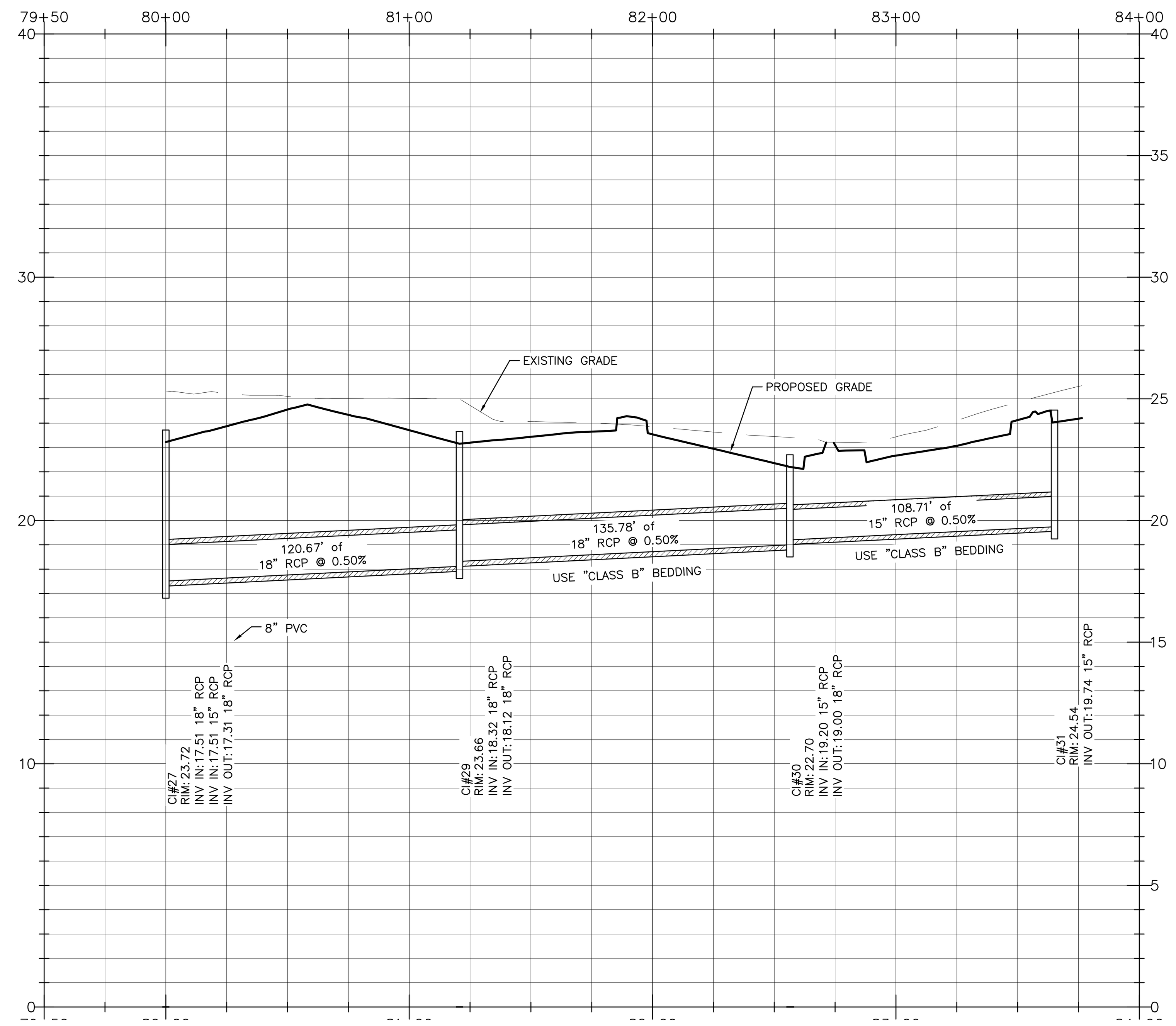

PROFILE: 1"=40' HORIZ.
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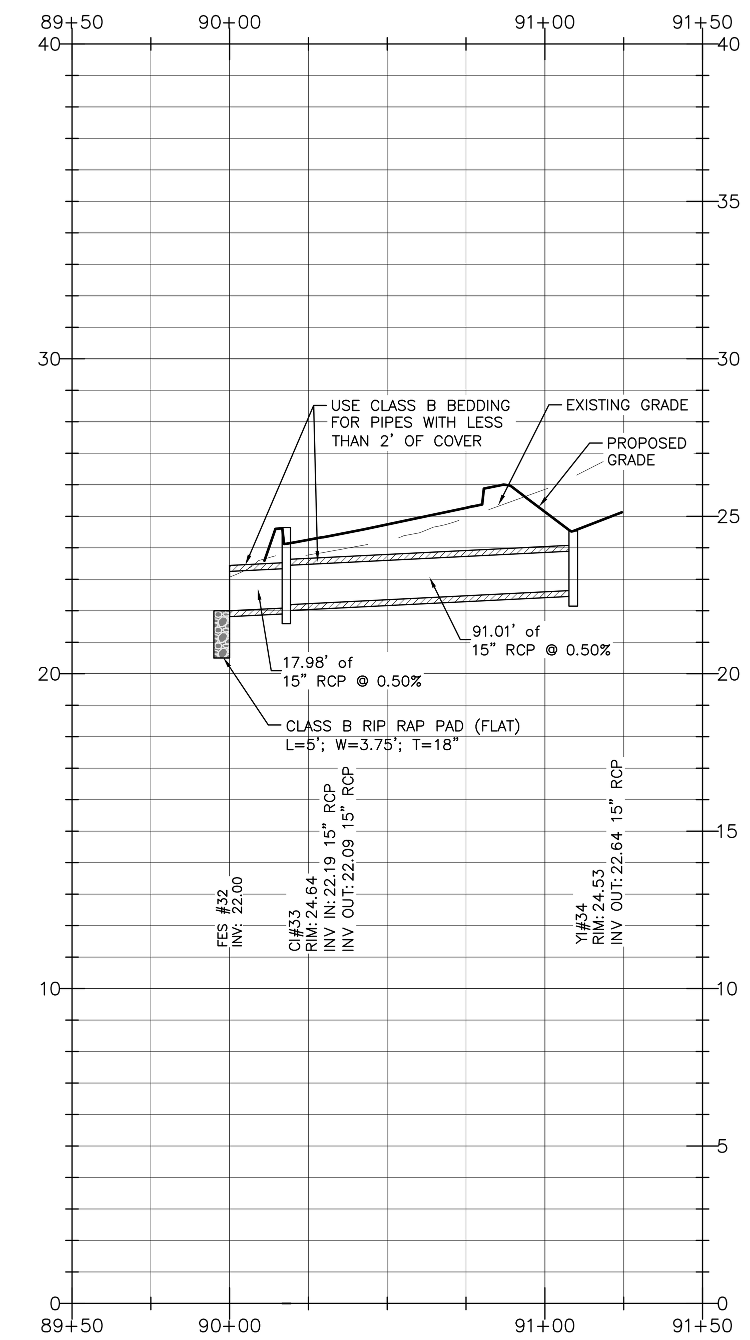

PROFILE: 1"=40' HORIZ.
1"= 4' VERT.

ENERGY DISSIPATER DESIGN – FES #32

Q10 = 4.27 CFS; Qfull = 5.25 CFS; Vfull = 4.3 FPS

Q10/Qfull = 0.81; V10/Vfull = 1.18; V10 = 5.0 FPS

FROM NCDOT DESIGN CHART: ZONE 1 (FINE STONE FOR OUTLET PROTECTION)

USE:4XDiam FOR SCOUR PROTECTION; WIDTH = 3XDiam

USE: CLASS B RIP RAP; L=5'; W=3.75'; T=18"

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Edwin F Sconfienza 09/14/20

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4	PLAN REVIEW DOCUMENTS	09/14/2020

Project Code: HTW

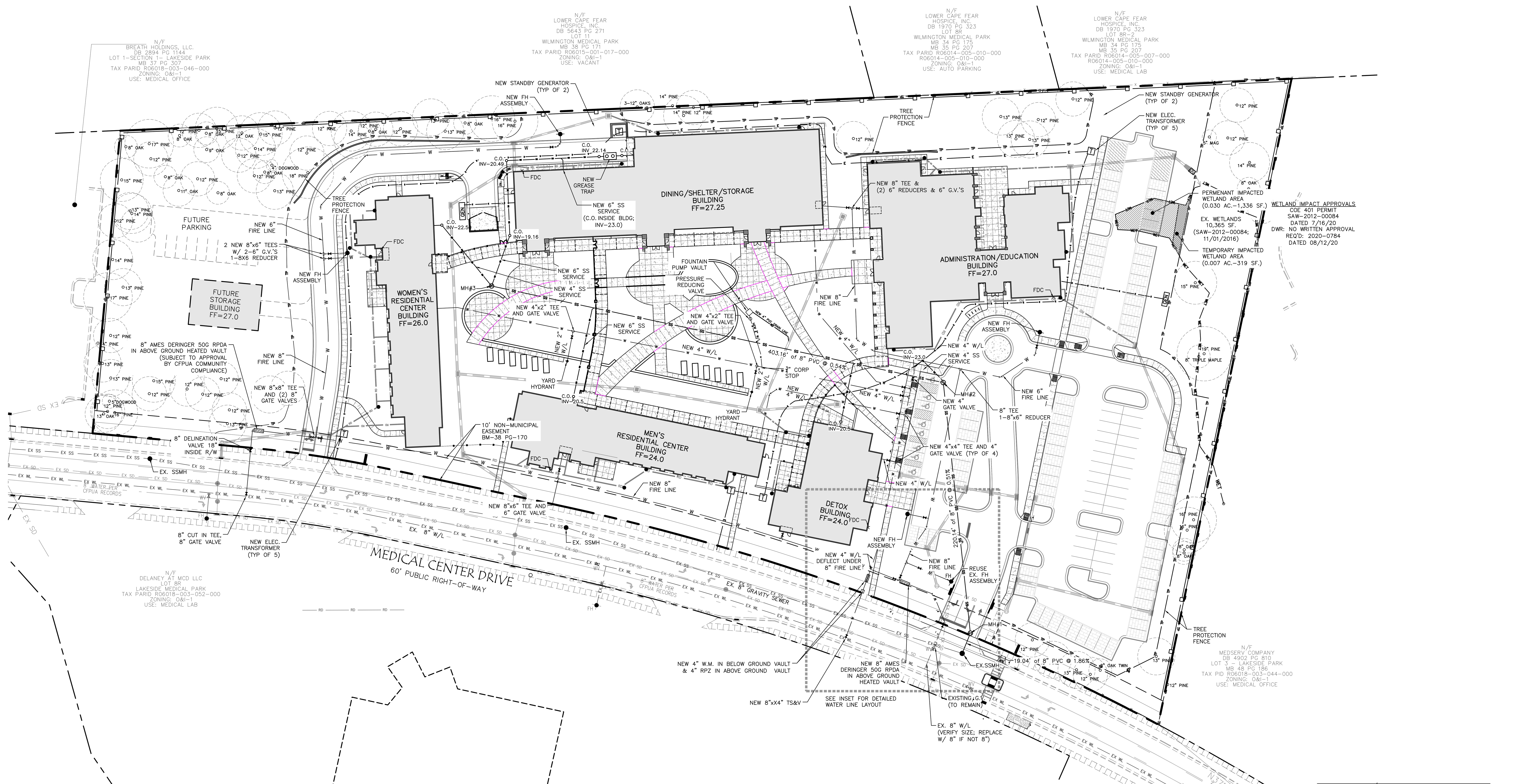
Sheet Title

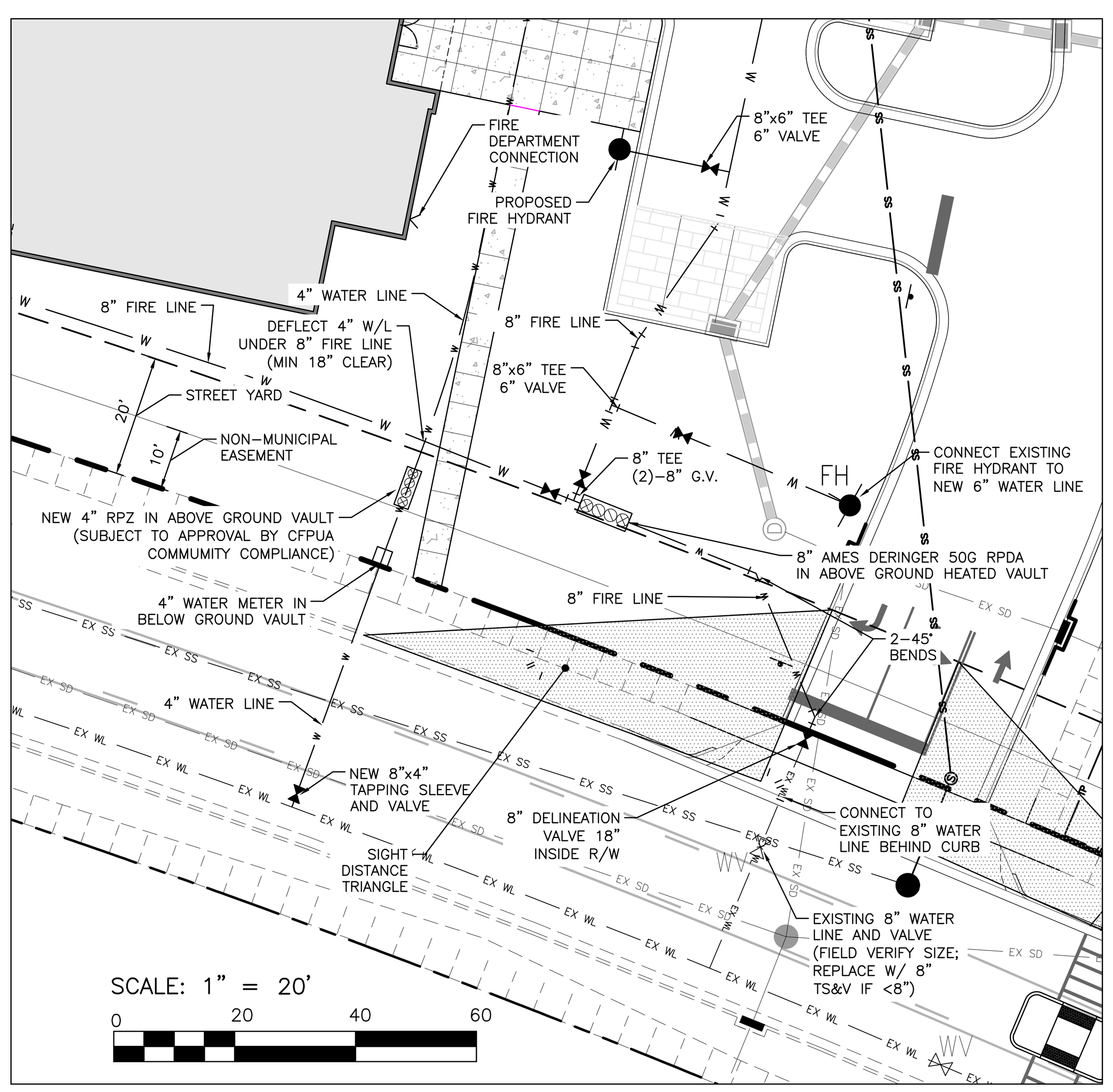
STORM DRAINAGE PROFILES

Original drawing is 42 x 30. Do not scale contents of this drawing

Sheet Number

SITE 305





WATER DETAIL INSET

GENERAL NOTES

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TREE PROTECTION NOTE:

NO CONSTRUCTION EQUIPMENT IS ALLOWED ON THE SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING HAS BEEN INSTALLED AND APPROVED.

FIRE & LIFE SAFETY NOTES

1. CONTRACTOR SHALL MAINTAIN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
2. NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIAL BEING DELIVERED TO THE JOB SITE.
3. HYDRANT MUST BE WITHIN 150' OF THE FDC (MEASURED AS THE TRUCK DRIVES FOR PRACTICAL PURPOSES.
4. FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
5. LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE THE FDC OR FIRE HYDRANTS. A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT AND FDC.
6. ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
7. PRIVATE UNDERGROUND FIRE LINES REQUIRE A SEPARATE UNDERGROUND FIRE LINE PERMIT FROM THE WILMINGTON FIRE AND LIFE SAFETY DIVISION 910-343-0696.
9. CONTRACTOR SHALL SUBMIT A RADIO SIGNAL STRENGTH STUDY FOR ALL COMMERCIAL BUILDINGS THAT DEMONSTRATES THAT EMERGENCY RESPONDER RADIO SIGNAL LEVELS MEET SECTION 510 REQUIREMENTS OF THE 2018 NC FIRE CODE.
10. ALL ISOLATION VALVES WITHIN THE "HOT BOX" SHALL BE ELECTRICALLY SUPERVISED.

UTILITY NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CAPE FEAR PUBLIC UTILITY AUTHORITY, THE CITY OF WILMINGTON AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (811) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
3. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
4. CONTRACTOR SHALL COORDINATE THE LOCATION OF THE ELECTRIC, GAS AND TELEPHONE SERVICE WITH THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL PROVIDE CONDUITS AS REQUIRED FOR THESE UTILITIES UNDER PAVED AREAS.
5. THIS PLAN IS DIAGRAMMATIC AND REPRESENTS THE APPROXIMATE LOCATION OF UTILITIES UNLESS SPECIFICALLY DIMENSIONED. THE CONTRACTOR SHALL COORDINATE THE ACTUAL AND PROPOSED LOCATION OF UTILITIES TO AVOID CONFLICTS.
6. CONTRACTOR SHALL COORDINATE THE LOCATION OF THE WATER AND SEWER SERVICE TO THE BUILDING WITH THE BUILDING PLUMBING CONTRACTOR AND THE BUILDING PLANS.
7. ALL WATER LINES 4" AND LARGER SHALL BE DUCTILE IRON [AWWA C151(ANSI A21.51)] UNLESS SPECIFIED OTHERWISE.
8. ALL SEWER LINES 8" AND LARGER SHALL BE AWWA C900 PVC UNLESS SPECIFIED OTHERWISE. ALL 4" & 6" SEWER SERVICE LATERALS SHALL BE SCHEDULE 40 PVC (ASTM D1785) UNLESS SPECIFIED OTHERWISE.
9. SEWER SERVICE LATERALS SHALL BE LAID AT A MINIMUM SLOPE OF 2% (1/4" PER FT) FOR 4" & 6" SERVICES UNLESS A FLATTER SLOPE IS APPROVED BY THE INSPECTOR AND THE ENGINEER.

LEGEND

- PROPERTY BOUNDARY
- EX. ADJ LOT LINE
- EX. EASEMENTS
- EX. SAN SEWER LINE
- EX. WATER LINE
- EX. STORM DRAIN LINE
- NEW SAN SEWER LINE
- NEW WATER LINE
- NEW ELECTRIC LINE
- NEW STORM DRAIN LINE
- EX. WETLANDS
- TOPO MAJOR
- TOPO MINOR
- SEWER MANHOLE
- SEWER CLEANOUT
- WATER METER
- WATER VALVE
- FIRE HYDRANT
- BACKFLOW PREVENTER

NC GRID NAD83
NORTH

SCALE: 1" = 40'

0 40 80 120 160

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THE SITE GROUP, PLLC. LANDSCAPE ARCHITECTURAL CORPORATION CERT. NO. 353 NORTH CAROLINA RALEIGH, N.C.

Project

THE HEALING PLACE OF NEW HANOVER COUNTY

1000 MEDICAL CENTER DR
WILMINGTON, NC

Client

NEW HANOVER COUNTY

Key Plan

Professional Seals

NORTH CAROLINA PROFESSIONAL SEAL 18303 ENGINEER EDWIN F. SCONFIENZA

No.	Description	Date
1	SCHEMATIC DESIGN SUBMITTAL	06/19/2018
2	GMP DOCUMENTS	12/21/2018
3	REVISED GMP DOCUMENTS	01/07/2019
4	PRE-TRC CONSULTATION	03/24/2020
5	REVISED PER PLANNING (WALTON COMMETNS)	03/25/2020
6	DD DOCUMENTS	04/08/2020
7	PLAN REVIEW DOCUMENTS	07/01/2020
8	SPECIFY AMES DERINGER RPDA 50G	07/07/2020
9	PLAN REVIEW DOCUMENTS	09/14/2020

Project Code: HTW

Sheet Title

UTILITY PLAN

Original drawing is 42 x 30 Do not scale contents of this drawing

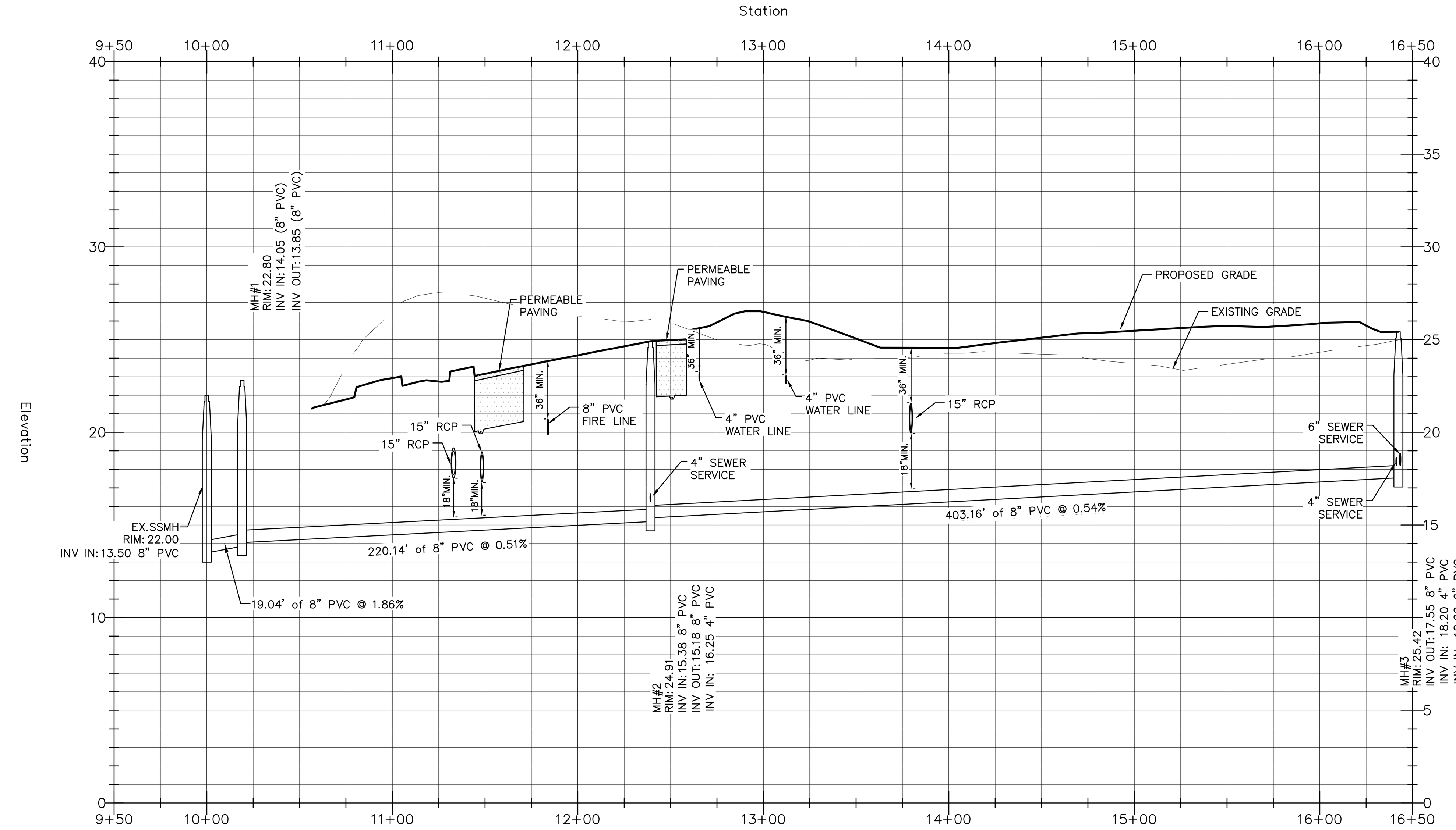
Sheet Number

SITE 400

PLAN: 1"=50
PROFILE: 1"=50' HORIZ.
1"= 5' VERT.

0 50 100 150 200

SS-01 PROFILE



CAPE FEAR PUBLIC UTILITY AUTHORITY STANDARD NOTES:

1. ALL PROPOSED ADDITIONS TO THE CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) WATER DISTRIBUTION AND SANITARY SEWER COLLECTION SYSTEMS, AS SHOWN AND SPECIFIED HEREIN, SHALL BE DESIGNED AND CONSTRUCTED TO CONFORM TO STATE RULES AND THE CFPUA'S MINIMUM TECHNICAL STANDARDS. THE CFPUA MINIMUM TECHNICAL STANDARDS ARE CONTAINED IN THE CURRENT DESIGN GUIDANCE MANUAL, MATERIAL SPECIFICATION MANUAL, TECHNICAL SPECIFICATIONS FOR CONSTRUCTION, AND STANDARD DRAWING DETAILS.
2. SEWER GUARDS REQUIRED AT ALL MANHOLES. STAINLESS STEEL SEWER GUARDS REQUIRED AT MANHOLES LOCATED IN TRAFFIC AREAS.
3. WATER AND SEWER SERVICES SHALL BE PERPENDICULAR TO MAIN AND TERMINATE 18" INSIDE RIGHT-OF-WAY LINE. SEWER SERVICES IN CUL-DE-SACS ARE REQUIRED TO BE PERPENDICULAR, OR MUST ORIGINATE IN END OF LINE MANHOLE AND TERMINATE 18" INSIDE RIGHT-OF-WAY LINE.
4. ALL SEWER SERVICES CONNECTING INTO DUCTILE IRON MAINS SHALL ALSO BE CONSTRUCTED OF DIP.
5. MINIMUM 10' UTILITIES EASEMENT PROVIDED ALONG THE FRONTAGE OF ALL LOTS AND AS SHOWN FOR NEW DEVELOPMENTS.
6. NO FLEXIBLE COUPLINGS SHALL BE USED.
7. ALL STAINLESS STEEL FASTENERS SHALL BE TYPE 316.
8. CLEANOUTS SHALL BE LOCATED A MINIMUM OF 6 FEET FROM ALL PROPERTY CORNERS.
9. WATER METER BOXES ARE TO BE A MINIMUM OF 5 FEET FROM THE PROPERTY CORNER.
10. UNUSED SERVICES SHALL BE ABANDONED. ABANDONED WATER SERVICES SHALL BE DISCONNECTED FROM MAIN.
11. A MINIMUM OF 10' OF MAIN LINE, 5' UPSTREAM AND 5' DOWNSTREAM SHALL BE REPLACED FOR NEW SEWER SERVICE CONNECTIONS TO EXISTING CLAY GRAVITY SEWER MAINS.
12. A MINIMUM OF 20' OF MAIN LINE, 10' UPSTREAM AND 10' DOWNSTREAM SHALL BE REPLACED FOR NEW CUT IN MANHOLES ON EXISTING CLAY GRAVITY SEWER MAINS
13. PROVIDE A MINIMUM DISTANCE OF SIX (6) INCHES BETWEEN EDGE OF MANHOLE CORE HOLES AND MANHOLE BARREL JOINTS. PROVIDE A MINIMUM DISTANCE OF SIX (6) INCHES BETWEEN EDGES OF CORE HOLES. CORING THE MANHOLE CONE IS NOT PERMITTED
14. WATER MAIN AND FORCE MAIN PIPE INSTALLED BY OPEN CUT SHALL BE BURIED AT A MINIMUM OF THREE (3) FEET AND A MAXIMUM OF FIVE (5) FEET BELOW FINISHED GRADE. DEPTHS GREATER THAN FIVE (5) FEET MUST BE APPROVED BY CFPUA.
15. ALL MANHOLE MAIN LINE AND SERVICE PIPING TO BE INSTALLED AT A MINIMUM OF CROWN TO CROWN OF THE LARGEST DIAMETER PIPE.

DETAIL: STANDARD NOTES (REQUIRED ON ALL PLAN AND PROFILE SHEETS)		CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560 Stewardship. Sustainability. Service.	DETAIL NO: WS-14
SCALE: NOT TO SCALE	CFPUA DETAIL DATE: 01/01/20		SHEET NO: -
CFPUA REV. No: 2			

User:JUSTIN.HANES File:S:\LINEARASSETSPM\PROJECT MANAGEMENT\2017 PROJECTS\-STANDARDS UPDATE 314817.045\40 CFPUA DWG DETAILS\9 FINAL DETAIL DRAWINGS\CAD\WS-14 STANDARD NOTES.DWG Scale:1:1 Plot Date:12/5/2019 Time:11:17 Justin Hanes; Layout:MODEL

GENERAL NOTES

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF WILMINGTON AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (811) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
3. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
4. BOUNDARY AND TOPOGRAPHICAL INFORMATION IS TAKEN FROM A SURVEY BY STROUD ENGINEERING P.A. FOR TRILLIUM HEALTH RESOURCES DATED MAY 19, 2106. AN ADDITIONAL WETLAND AND TREE INFORMATION IS TAKEN FROM A SURVEY BY BATEMAN CIVIL SURVEY CO. DATED SEPTEMBER 9, 2016.
5. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.
6. CONTRACTOR SHALL CALL TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.
7. NO LAND DISTURBANCE INCLUDING TREE REMOVAL IS TO OCCUR OUTSIDE THE LIMITS OF DISTURBANCE SHOWN ON THE PLANS.
8. PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. LAND CLEARING AND CONSTRUCTION CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTION ON TREE PROTECTION REQUIREMENTS AND METHODS.

FLOODPLAIN NOTE:

THIS SITE IS NOT IN ANY SPECIAL FLOOD HAZARD AREAS OR FUTURE CONDITIONS FLOOD HAZARD AREAS, AS SHOWN ON FIRM PANEL 3701713126K DATED MAY 2, 2006

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Project

THE HEALING PLACE OF NEW HANOVER COUNTY

1000 MEDICAL CENTER DR
WILMINGTON, NC

Client

NEW HANOVER COUNTY

Key Plan

Professional Seals

NORTH CAROLINA PROFESSIONAL SEAL 18303 ENGINEER EDWIN F. SCONFIENZA
Edwin F. Sconfienza
9/14/20

N

No.	Description	Date
1	GMP DOCUMENTS	01/07/2019
2	DD DOCUMENTS	04/08/2020
3	PLAN REVIEW DOCUMENTS	07/01/2020
4	PLAN REVIEW DOCUMENTS	09/14/2020

Project Code: HTW

Sheet Title

SANITARY SEWER PLAN & PROFILE

Original drawing is 42 x 30. Do not scale contents of this drawing

Sheet Number

SITE 401

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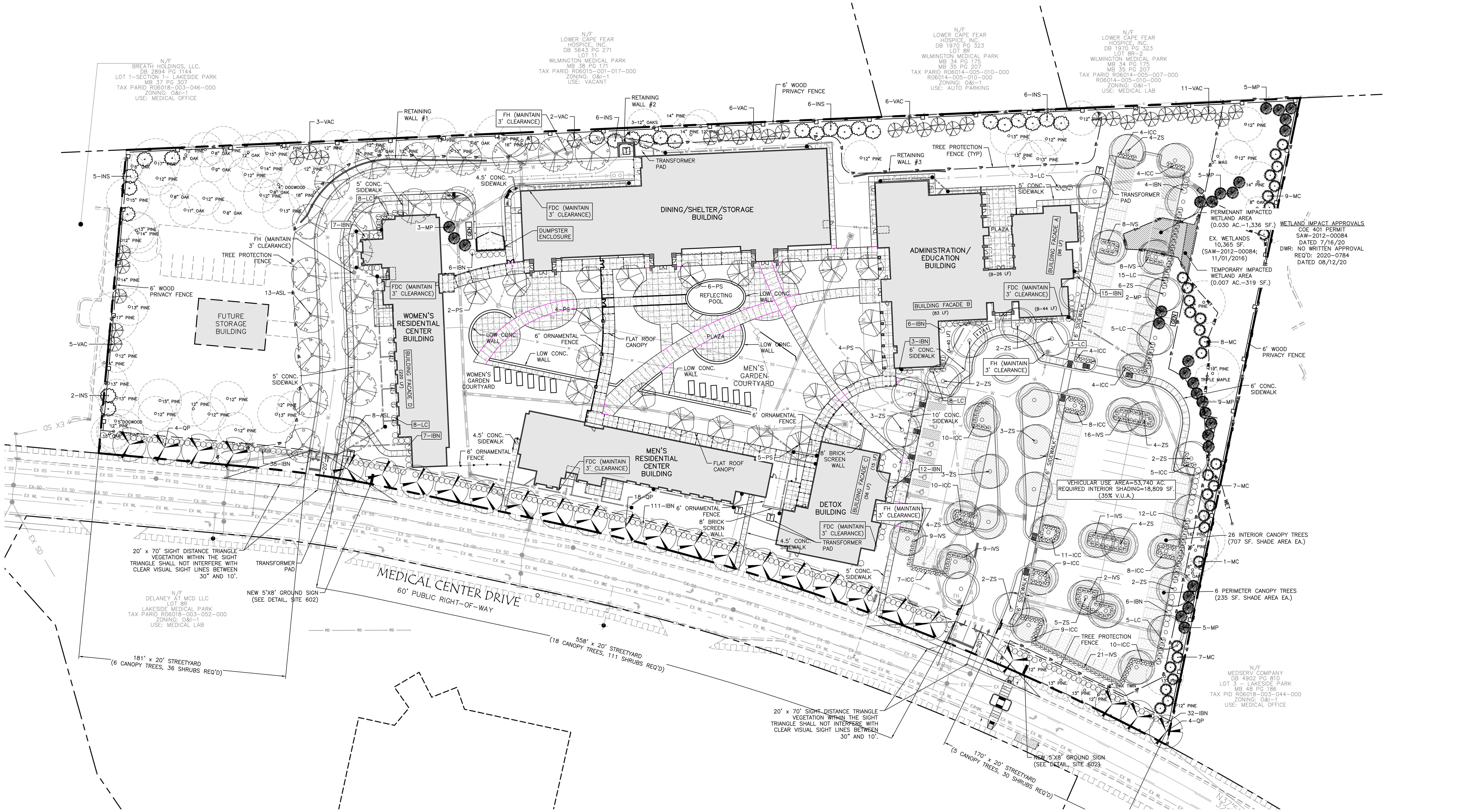

LANDSCAPE REQUIREMENTS:

1. THE SITE SHALL BE STABILIZED AND SEEDED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
2. ALL MECHANICAL EQUIPMENT, WASTE DISPOSAL FACILITIES, AND VEHICULAR USE AREAS (DRIVES AND PARKING) SHALL BE SCREENED FROM PUBLIC VIEW.
3. ALL ABOVE GROUND UTILITY EQUIPMENT AND FACILITIES ASSOCIATED WITH ON-SITE ELECTRIC, CABLE, TELEPHONE, GAS OR OTHER SIMILAR UTILITY SHALL BE LOCATED IN THE SIDE OF REAR YARD AREA OF THE SITE AND SCREENED, TO THE EXTENT POSSIBLE, WITH EVERGREEN PLANTINGS. PLANTINGS SHALL ALLOW FOR A MINIMUM OF 5' CLEARANCE AROUND THE STRUCTURE TO ALLOW FOR ACCESS. ADDITIONALLY, ANY SIDE OF THE STRUCTURE HAVING A DOOR OR LOCK, THE PLANTINGS SHALL ALLOW FOR A 10' CLEARANCE. THE AMOUNT OF CLEARANCE SHALL ACCOUNT FOR THE SIZE OF THE PLANT MATERIAL AT MATURITY.
4. ALL STORMWATER DEVICES SUCH AS CULVERTS, RIP RAP STRUCTURES, RETENTION AND DETENTION PONDS AND OTHER STORMWATER-RELATED DEVICES SHALL BE SCREENED WITH EVERGREEN PLANTINGS TO REDUCE THEIR VISUAL IMPACT.
5. ENTRY FEATURE WALLS REQUIRE FOUNDATION PLANTINGS AT THE BASE OF THE WALL.
6. ALL PLANTING MEDIANS AND/OR ISLANDS IN VEHICULAR USE AREAS SHALL BE AT LEAST EIGHTEEN FEET LONG BY TWELVE FEET WIDE FROM BACK OF CURB TO BACK OF CURB, WITH A MINIMUM OF 216 SQUARE FEET OF SPACE PER CANOPY TREE WHERE THESE TREES ARE PROPOSED
7. THE SIZE OF THE PLANTING AREA AND SIZE OF PLANT MATERIAL AT MATURITY SHALL ALLOW FOR A 2.5' BUMPER OVERHANG FROM THE BACK OF CURB.
8. ALL SHRUBS INSTALLED AS VEHICULAR USE SCREENING WILL BE MAINTAINED AS A CONTINUOUS HEDGE AT A MINIMUM HEIGHT OF 36 INCHES.
9. WHERE EXISTING OR PROPOSED VEGETATION FAILS TO FUNCTION ADEQUATELY AS REQUIRED, THE CITY OF WILMINGTON SITE INSPECTOR RESERVES THE RIGHT TO REQUIRE SUPPLEMENTAL PLANTINGS IN ADDITION TO THOSE SHOWN ON THE LANDSCAPE PLAN BASED ON ACTUAL FIELD CONDITIONS.
10. UPON ESTABLISHMENT OF FINISHED GRADES AND PRIOR TO BEGINNING INSTALLATION OF ANY TREES, A SOIL AMENDMENT SCHEDULE FOR ALL TREE PLANTINGS SHALL BE PREPARED BY A CERTIFIED LANDSCAPE ARCHITECT AND BE PROVIDED TO THE CITY OF WILMINGTON PLANNING DEPARTMENT.
11. PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY, A CERTIFIED STATEMENT SHALL BE PROVIDED TO CITY OF WILMINGTON SITE INSPECTOR ATTESTING TO THE FACT THAT THE SOIL AMENDMENT SCHEDULE WAS FOLLOWED AS SPECIFIED IN THE APPROVED SITE AND/OR SUBDIVISION PLAN. THIS STATEMENT SHALL BE CERTIFIED BY A REGISTERED LANDSCAPE ARCHITECT, CERTIFIED ARBORIST, OR OTHER SPECIALIST AS DETERMINED ACCEPTABLE BY THE PLANNING DIRECTOR.
12. THE PROPERTY OWNER OR DEVELOPER SHALL PROVIDE FOR CONTINUOUS MAINTENANCE OF THE LANDSCAPE AREAS AFTER OCCUPANCY OF THE BUILDING. THE PROPERTY OWNER SHALL ENSURE THAT PERFORMANCE CRITERIA WITHIN THIS ORDINANCE AND/OR INCLUDED ON THE APPROVED SITE AND/OR SUBDIVISION PLAN ARE MET. FAILURE TO CORRECT DEFICIENCIES IN A TIMELY MANOR SHALL RESULT IN A CITATION FOR VIOLATION OF THIS ORDINANCE IN ACCORDANCE WITH CHAPTER 11.
12. PRIOR TO ANY CLEARING, GRADING, OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.

LANDSCAPE MAINTENANCE PLAN:

THE OWNERS OF THE PROPERTY AND THEIR AGENTS, HEIRS OR ASSIGNS SHALL BE RESPONSIBLE FOR THE INSTALLATION, PRESERVATION AND MAINTENANCE OF ALL PLANTINGS AND PHYSICAL FEATURES SHOWN ON THIS PLAN. THE OWNERS SHALL BE RESPONSIBLE FOR ANNUAL MAINTENANCE OF THE VEGETATION TO INCLUDE BUT NOT LIMITED TO:

A. FERTILIZATION: FERTILIZE LAWNS TWICE PER YEAR (FEBRUARY 15–MARCH 15 AND AGAIN SEPTEMBER 1–OCTOBER 31) ACCORDING TO SOIL TEST. FERTILIZE WARM SEASON GRASSES ONCE DURING THE GROWING SEASON PER SOIL TEST.

B. PRUNING: PRUNING SHALL BE LIMITED TO REMOVAL OF DEAD WOOD OR BRANCHES FOR TREES OR FOR SIGHT DISTANCES/SAFETY REASONS. THE ANSI A300 STANDARDS SHOULD BE ADHERED TO. THE PRUNING OF SHRUBS SHALL BE LIMITED TO THE PRUNING NECESSARY TO MAINTAIN THE NATURAL SHAPE OF THE PLANT EXCEPT FOR SHEARED HEDGES.

C. PEST CONTROL: PRE-EMERGENT WEED CONTROL FOR SHRUB BEDS MAY BE APPLIED IN FEBRUARY. CHEMICAL TREATMENT FOR INSECT INFESTATION AND DISEASE MAY BE APPLIED AND SHALL BE SPECIFIC TO THE PROBLEM.

D. MULCHING: MULCHING SHALL BE MAINTAINED AT A DEPTH OF 2-3" IN SHRUB BEDS. MULCH SHALL BE REAPPLIED EVERY TWO YEARS. AS NECESSARY TO MAINTAIN THE AVERAGE DEPTH OF THE PLANT BED.

E. MOWING: PRIMARY FESCUE LAWNS SHALL BE MAINTAINED AT A HEIGHT OF 3" AND SHALL BE MOWED APPROXIMATELY 30 TIMES PER YEAR. SECONDARY TURF AREAS MAY BE MAINTAINED HIGHER AND LESS FREQUENTLY. WARM SEASON GRASSES SHALL BE MOWED AS NEEDED DURING THE GROWING SEASON TO MAINTAIN THE RECOMMENDED HEIGHT OF THE SPECIES OF TURF GRASS.

F. PLANT PROTECTION: AVOID EXCESS INTRUSION INTO THE ROOT ZONE AREA OF ESTABLISHED PLANTINGS.

G. WATERING: IF ANY IRRIGATION SYSTEM IS UTILIZED, THE SYSTEM SHALL BE REGULATED TO PROVIDE APPROXIMATELY 1" OF RAINFALL PER WEEK DURING THE GROWING SEASON. (PENDING TOWN OF CARY WATER/IRRIGATION SUPPLIES.)

REMOVAL OF DISEASE INFESTED MATERIAL SHALL BE ALLOWED SO LONG AS REQUIRED SHRUBS ARE REPLACED AT THE REQUIRED RATES AND SIZES.

FAILURE TO MAINTAIN ALL PLANTINGS IN ACCORDANCE WITH THIS PLAN MAY CONSTITUTE A VIOLATION OF THE LAND DEVELOPMENT ORDINANCE AND MAY RESULT IN FINES.

FLOODPLAIN NOTE:

THIS SITE IS NOT IN ANY SPECIAL FLOOD HAZARD AREAS OR FUTURE CONDITIONS FLOOD HAZARD AREAS, AS SHOWN ON FIRM PANEL 3701713126K DATED MAY 2, 2006

EXISTING TREE PRESERVATION TABLE

AREA	SQUARE FOOTAGE	# OF SIGNIFICANT TREES**	# OF REGULATED TREES	# OF IMPACTED TREES*
TREE SAVE AREA A	25,919 SF.	0	12 OAKS, 42 PINES, 2 DOGWOODS	5 PINES
TREE SAVE AREA B	13,483 SF.	0	1 TRIPLE OAK, 8 PINES	2 PINES, 1 MAGNOLIA
TREE SAVE AREA C	24,877 SF.	0	5 OAKS, 12 PINES, 1 MAPLE, 1 MAGNOLIA	2 PINES, 2 OAKS

* EXISTING TREES WITHIN TREE PROTECTION AREAS THAT WILL BE IMPACTED GREATER THAN 40% OF CRITICAL ROOT ZONE.
** NO SIGNIFICANT TREES ARE PRESENT ON SITE.

STREETYARD CALCULATIONS TABLE

STREET	MINIMUM PLANTING STANDARD	ZONING MULTIPLIER	STREETYARD FRONTAGE X ZONING MULTIPLIER	PLANTING REQUIRED	PLANTING PROVIDED
MEDICAL CENTER DRIVE	1 TREE AND 6 SHRUBS PER 600 SF OF STREETYARD AREA	O&I-1 (18)	909'LF FRONTAGE X 18 =16,362 SF	28 TREES 164 SHRUBS	29 TREES 177 SHRUBS

FOUNDATION PLANTING CALCULATIONS TABLE

AREA	FACADE AREA	12% OF FACADE AREA	PLANTING AREA PROVIDED	SHRUBS PROVIDED
BUILDING FACADE A	136' X 15'=2,040 SF	245 SF (2,040 X 0.12)	270 SF	15 @ 18 SF EACH
BUILDING FACADE B	127' X 15'=1905 SF 26' X 28'=728 SF	316 SF (2,633 X 0.12)	396 SF	22 @ 18 SF EACH
BUILDING FACADE C	56' X 15'=840 SF 15' X 8'=120 SF	116 SF (960 X 0.12)	162 SF	9 @ 18 SF EACH
BUILDING FACADE D	220' X 15'=3300 SF	396 SF (3,300 X 0.12)	468 SF	26 @ 18 SF EACH

* FOUNDATION SHRUB PLANTING AREAS SPACED AT 5' O.C. SHRUB VARIETIES PROVIDED ARE PROJECTED TO ACHIEVE A MIN SIZE OF 5' H X 5'W AT MATURITY. BUILDING HEIGHTS AND FRACTIONS OF AREA HAVE BEEN ROUNDED UP TO THE NEAREST FOOT.

OVERALL PLANT LIST

KEY	QTY	BOTANICAL NAME	COMMON NAME	HEIGHT	SIZE	ROOT	REMARKS
CANOPY TREES							
ASL	21	ACER SACCHARUM 'LEGACY'	LEGACY SUGAR MAPLE	10'	3" CAL.	B&B	MATCHING
PS	21	PRUNUS SERRULATA 'KWANZAN'	KWANZAN CHERRY	8'	1.5" CAL.	B&B	MATCHING
QP	26	QUERCUS PHELLOS	WILLOW OAK	10'	3" CAL.	B&B	MATCHING
ZS	44	ZELKOVA SERRATA	JAPANESE ZELKOVA	10'	3" CAL.	B&B	MATCHING
SHRUBS							
ICC	93	ILEX CRENATA 'COMPACTA'	COMPACTA HOLLY	24" HT. MIN.	5 GAL.	CONT.	MATCHING
IBN	254	ILEX CORNUTA 'BURFORDII NANA'	DWARF BURFORD HOLLY	36" HT. MIN.	5 GAL.	CONT.	MATCHING
INS	25	ILEX X 'NELLIE STEVENS'	NELLIE STEVENS HOLLY	48" HT. MIN.	10 GAL.	CONT.	MATCHING
IVS	119	ILEX VOMITORIA 'SCHILLINGS'	DWARF YAUPON HOLLY	24" HT. MIN.	5 GAL.	CONT.	MATCHING
LC	64	LOROPETALUM CHINENSE 'RED DIAMOND	RED DIAMOND LOROPETALUM	36" HT. MIN.	5 GAL.	CONT.	MATCHING
MC	32	MYRICA CERIFERA	SOUTHERN WAX MYRTLE	48" HT. MIN.	10 GAL.	CONT.	MATCHING
MP	29	MYRICA PENSYLVANICA	NORTHERN BAYBERRY	48" HT. MIN.	10 GAL.	CONT.	MATCHING
VAC	33	VIBURNUM AWABUKI 'CHINDO'	CHINDO VIBURNUM	48" HT. MIN.	10 GAL.	CONT.	MATCHING

PLANTING NOTES:

LOCATE PLANTS AND PLANTING BEDS BY USING SCALED DIMENSIONS FROM STREET, PROPERTY LINES, BACK OF CURB, BUILDINGS, WALLS, ETC. ALL PLANTS SHALL MEET OR EXCEED THE MINIMUM STANDARDS SET BY THE U.S.D.A. FOR NURSERY STOCK SPONSORED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC., WASHINGTON, D.C. NO SUBSTITUTIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL FROM THE OWNER AND/OR THE LANDSCAPE ARCHITECT.

SYMBOLS: B&B = BALLED & BURLAPPED; B.R. = BARE ROOT; CONT. = CONTAINER, O.C. = ON-CENTER, (R) = TO REMAIN
MULCH: MULCH ALL BED AREAS WITH HARDWOOD MULCH TO A DEPTH OF 3".

NOTE:
1. ANY TREES IN SIGHT TRIANGLES WILL BE LIMBED UP TO A HEIGHT OF 10'. ALL SHRUBS LOCATED IN SIGHT TRIANGLES WILL BE MAINTAINED BELOW 2.5'.
2. ALL SHRUB SPECIES SHALL REACH A MINIMUM OF 36" WITHIN THREE YEARS OF INSTALLATION.
3. BOXED PLANT LEADERS INDICATE PLANTS USED TO MEET FOUNDATION PLANTING REQUIREMENTS.

PARKING LOT SHADING REQUIREMENTS

IMPERVIOUS SURFACE AREA:	53,740 SF.
REQUIRED INTERIOR SHADING:	18,809 SF.(35%)
INTERIOR CANOPY TREES (26):	18,382 SF. (707 SF. EA.)
PERIMETER CANOPY TREES (6):	1,410 SF. (235 SF. EA.)
TOTAL INTERIOR SHADING:	19,792 SF. (36.8%)

NC GRID NAD83
NORTH

SCALE: 1" = 40'

0 40 80 120 160

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THE SITE GROUP, PLLC. LANDSCAPE ARCHITECTURAL CORPORATION CERT. NO. 353 NORTH CAROLINA RALEIGH, N.C.

Project

THE HEALING PLACE OF NEW HANOVER COUNTY

1000 MEDICAL CENTER DR
WILMINGTON, NC

Client

NEW HANOVER COUNTY

Key Plan

Professional Seals

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1419 BRANDON D. MOORE
10SEPT2020

N

No.	Description	Date
1	SCHEMATIC DESIGN SUBMITTAL	06/19/2018
2	GMP DOCUMENTS	12/21/2018
3	PRE-TRC CONSULTATION	03/24/2020
4	REVISED PER PLANNING (WALTON COMMENTS)	03/25/2020
5	DD DOCUMENTS	04/08/2020
6	FOUNDATION PLANTINGS	06/24/2020
7	PLAN REVIEW DOCUMENTS	07/01/2020
8	PLAN REVIEW DOCUMENTS	09/10/2020

Project Code: HTW

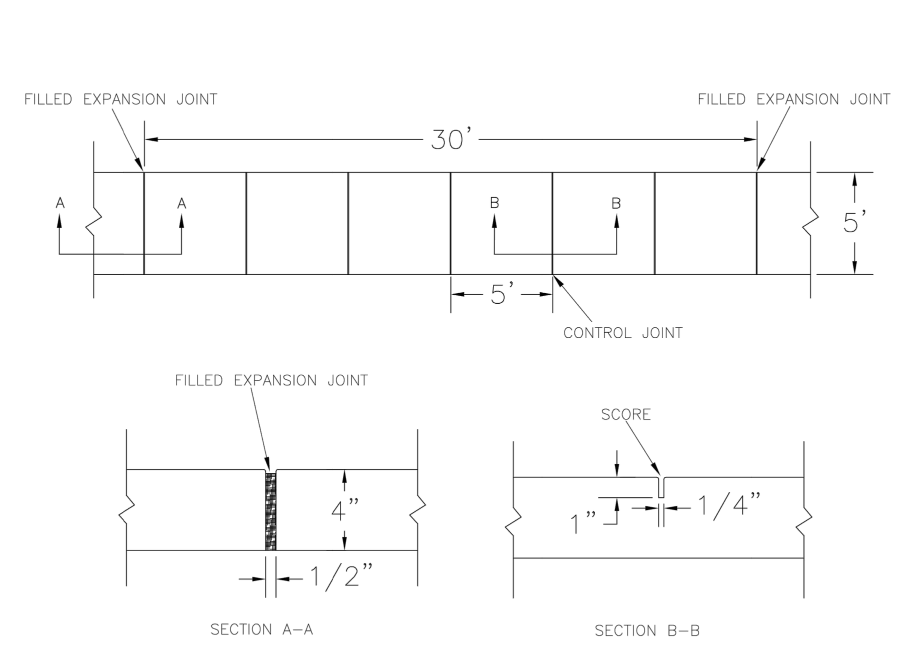
Sheet Title

LANDSCAPE PLAN

Original drawing is 42 x 30 Do not scale contents of this drawing

Sheet Number

SITE 500



NOTES:
1. JOINT MATERIAL TO COMPLY WITH CURRENT NCDOT STANDARDS.
2. SANITARY SEWER CLEAN–OUTS, WATER METERS, MANHOLES, AND VALVE LIDS TO BE LOCATED OUTSIDE SIDEWALK WHERE FEASIBLE.
3. MINIMUM SIDEWALK WIDTH TO BE 6' MINIMUM IF PLACED AT BACK OF CURB.
4. CONCRETE FOR ALL SIDEWALKS (EXCEPT ANY PORTION CONTAIN WITHIN A DRIVEWAY APRON) SHALL BE CLASS "A" – 3,000 PSI.
5. MINIMUM REPLACEMENT FOR REPAIRS IS A 5' X 5' PANEL
6. 4" STONE BASE MAY BE REQUIRED FOR POOR SOIL CONDITIONS
7. MINIMUM DEPTH FOR TUNNELING BELOW SIDEWALK IS 12"
8. MAX ADJACENT GROUND SLOPE WITHOUT RAILING IS 2:1
9. MIN GRADE FOR PROPER DRAINAGE IS 1% IN AT LEAST 1 DIRECTION. MAX CROSS SLOPE IS 2%. MAX LONGITUDINAL SLOPE IS 8.3%, 10% IF LIMITED BY EXISTING CONDITIONS, OR NO GREATER THAN THE SLOPE OF THE EXISTING ADJACENT ROAD.

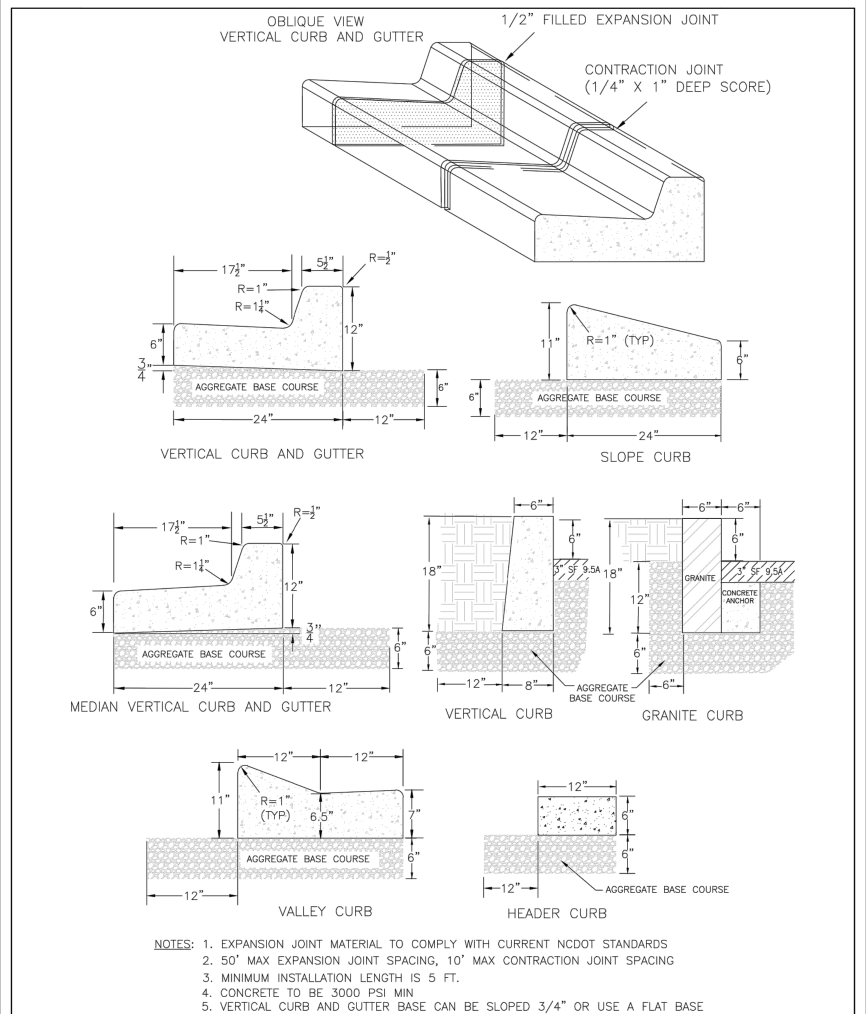
STANDARD DETAIL

DATE: OCTOBER, 2010
DRAWN: PB/JSR
CHECKED: DEC
SCALE NOT TO SCALE

SIDEWALK

CITY OF WILMINGTON NORTH CAROLINA
CITY OF WILMINGTON ENGINEERING
PO BOX 1810
WILMINGTON N.C. 28402
(910) 341–7807

SD 3-10



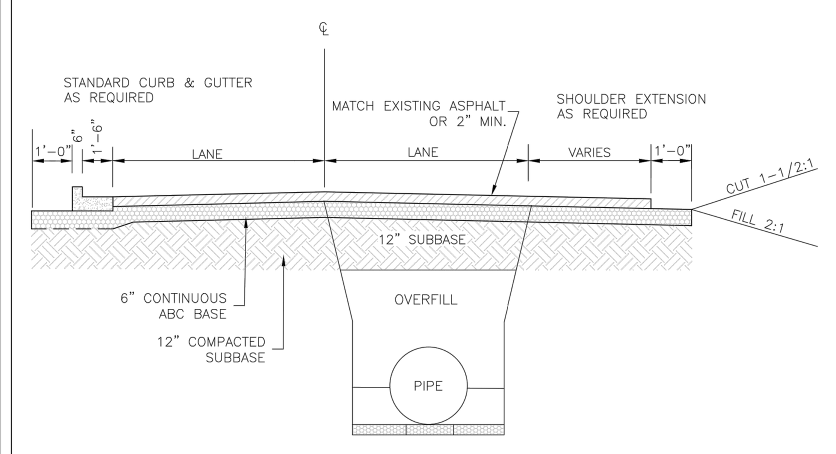
STANDARD DETAIL

DATE: AUGUST, 2011
DRAWN: PB/JSR
CHECKED: DEC
SCALE NOT TO SCALE

CURBING

CITY OF WILMINGTON NORTH CAROLINA
CITY OF WILMINGTON ENGINEERING
PO BOX 1810
WILMINGTON N.C. 28402
(910) 341–7807

SD 3-11



NOTES:
1. PAVEMENT RESTORATION DESIGN IS DEPENDENT ON CITY STREET CUT POLICY AND PERMITTED CONDITIONS.
2. PIPE TRENCH AND COMPACTION REQUIREMENTS PER SPECIFICATIONS. SEE SD 1–07 AND SD1–05.

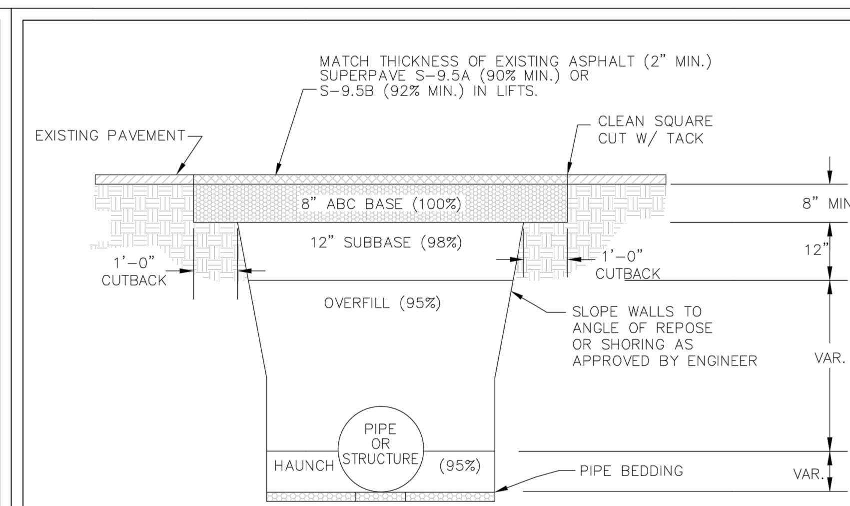
STANDARD DETAIL

DATE: MAY, 2013
DRAWN BY JSR
CHECKED BY B.R., P.E.
SCALE NOT TO SCALE

TYPICAL ROAD REBUILD

CITY OF WILMINGTON NORTH CAROLINA
CITY OF WILMINGTON ENGINEERING
212 OPERATIONS CENTER DR.
WILMINGTON, NC 28412
(910) 341–7807

SD 1-04



NOTES:
1. CONTRACTOR SHALL ENSURE BOTTOM OF TRENCH IS SUITABLE FOR INSTALLATION AND DOES NOT REQUIRE FOUNDATION CONDITIONING STONE.
2. FILL SHALL BE SUITABLE MATERIAL THAT IS FREE FROM HEAVY CLAY, GUMBOS, DEBRIS, ORGANICS AND LITTLE TO NO EXCESSIVE MOISTURE.
3. SELECT BACKFILL MAY BE SUBSTITUTED OR REQUIRED BY CITY TO ACHIEVE COMPACTION, (I.E. #57, ABC, CRUSHED LIMESTONE, CLEAN SAND, FLOWABLE FILL, ETC).
4. SOIL SHALL BE INSTALLED IN 6"–8" LIFTS AND COMPACTED BY A MECHANIZED TAMPER (I.E JUMPING JACK), HOWEVER, VIBRATORY ROLLERS > 18" WIDTH MAY BE USED FOR LARGER EXCAVATIONS. THE PLATE TAMP METHOD SHALL NOT BE USED.
5. ALL APPROVED CASTINGS SHALL BE SET FLUSH TO GRADE AND SUPPORTED IF APPLICABLE.
6. COMPACT MATERIALS TO MINIMUM % DENSITY SHOWN IN DIAGRAM AS DETERMINED BY THE STANDARD PROCTOR METHOD ASTM D–698–A FOR SOILS; AND ASTM D–698–C FOR ABC STONE; AND BY NUCLEAR GAUGE OR CORE SAMPLE FOR ASPHALT.
7. CUTBACKS OF ASPHALT SHALL BE PREPARED ON EDGE OF EXCAVATION OVER TOP OF UNDISTURBED SOIL.

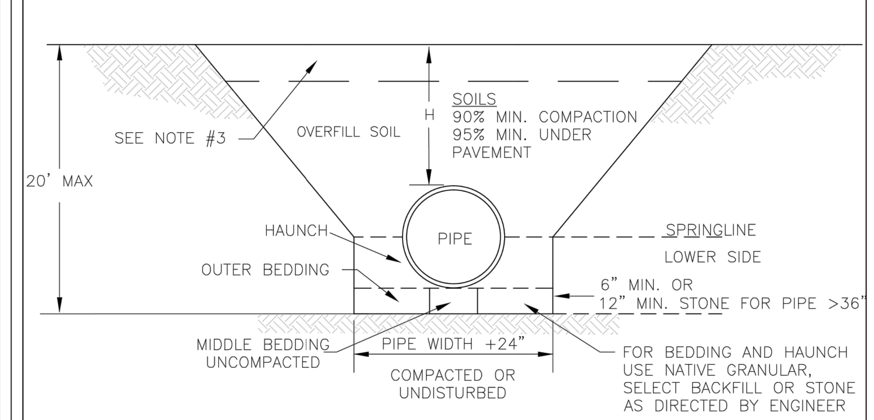
STANDARD DETAIL

DATE: MAY, 2013
DRAWN BY JSR
CHECKED BY D.E.C., P.E.
SCALE NOT TO SCALE

PAVEMENT REPAIRS- UTILITY CUTS

CITY OF WILMINGTON NORTH CAROLINA
CITY OF WILMINGTON
ENGINEERING OFFICE
212 OPERATIONS CENTER DRIVE
WILMINGTON N.C. 28412
(910) 341–7807

SD 1-05



NOTES:
1. CONTRACTOR SHALL ENSURE BOTTOM OF TRENCH IS SUITABLE FOR PIPE INSTALLATION AND DOES NOT REQUIRE FOUNDATION CONDITIONING STONE.
2. CONTRACTOR TO INSTALL BEDDING AND PIPE BEFORE INSTALLING HAUNCH AND THEN OVERFILL. SOILS SHALL BE INSTALLED IN 6"–8" LIFTS AND COMPACTED TO MIN. % DENSITY AS DETERMINED BY THE STANDARD PROCTOR ASTM D–698–A METHOD.
3. WHERE IN PAVEMENT, CONTRACTOR SHALL ADHERE TO CITY STREET CUT POLICY AND SD 1–04 OR SD 1–05 FOR ROAD AND PAVEMENT REBUILD.
4. SOIL SHALL BE COMPACTED BY A MECHANIZED TAMP (I.E. JUMPING JACK). HOWEVER, VIBRATORY ROLLERS > 18" WIDTH MAY BE USED FOR LARGER EXCAVATIONS. THE PLATE TAMP METHOD SHALL NOT BE USED.
5. THIS DETAIL IS REPRESENTATIVE AND PIPE TRENCH DESIGN IS SUBJECT TO SPECIFIC SOIL CATEGORY (I, II, III), AND INSTALLATION TYPE (1, 2, 3, 4), AS DIRECTED BY THE ENGINEER AND SITE CONDITIONS.

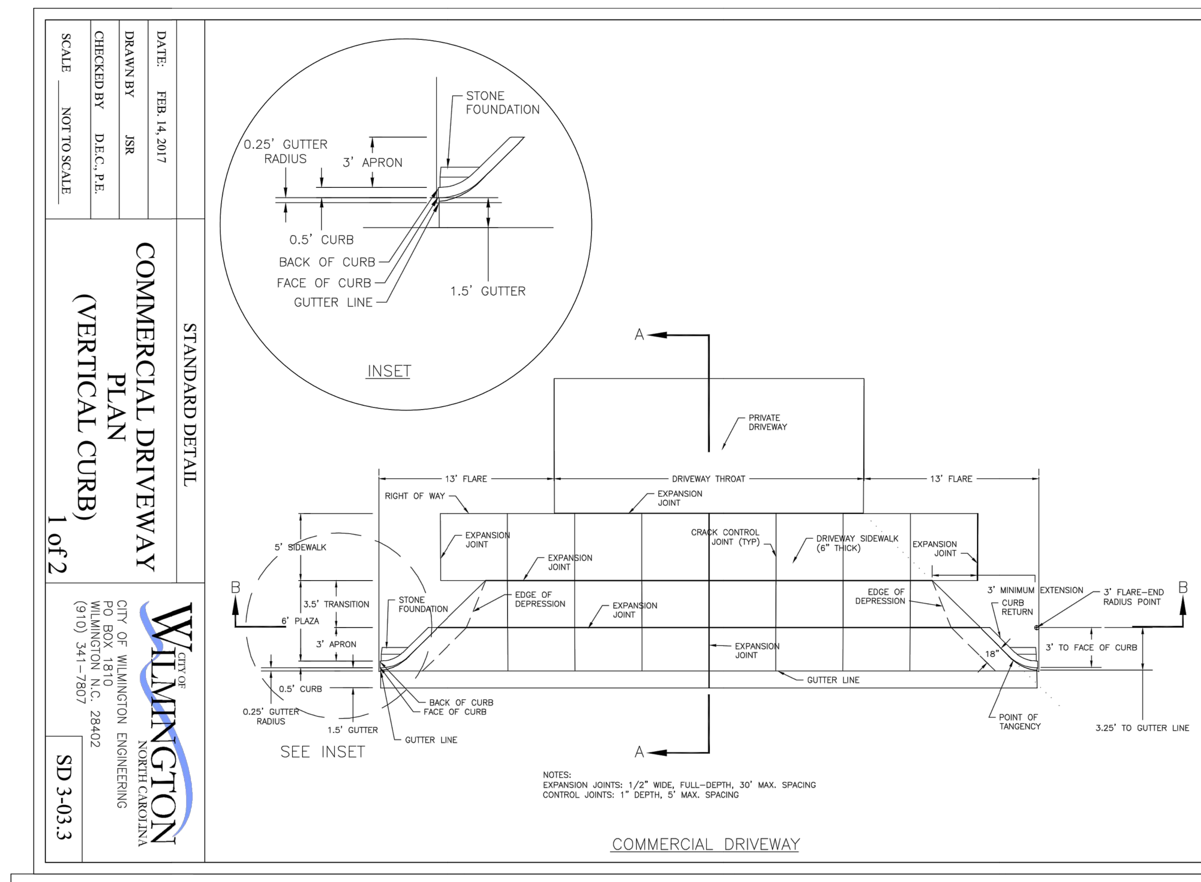
STANDARD DETAIL

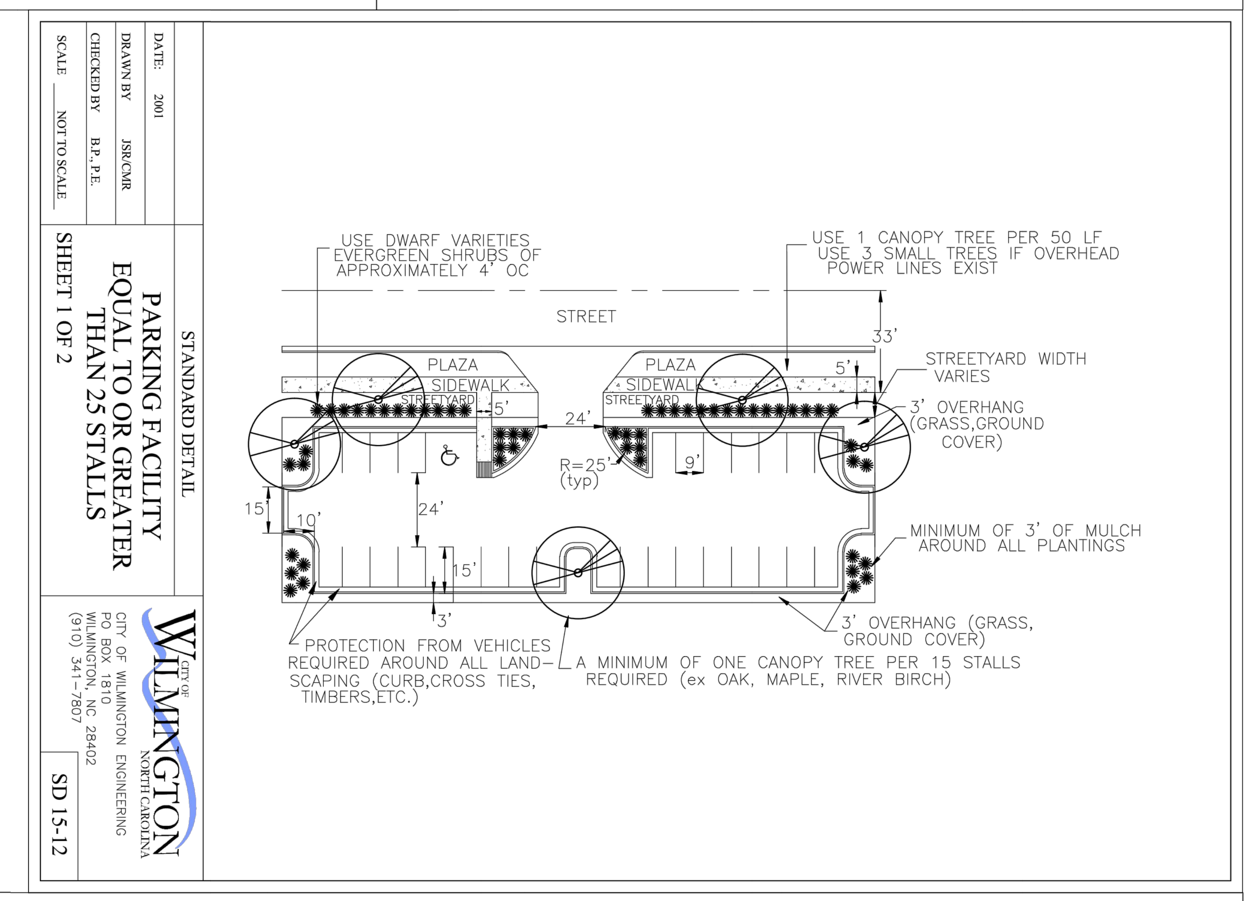
DATE: MAY, 2013
DRAWN: JSR
CHECKED: BDR, P.E.
SCALE: NOT TO SCALE

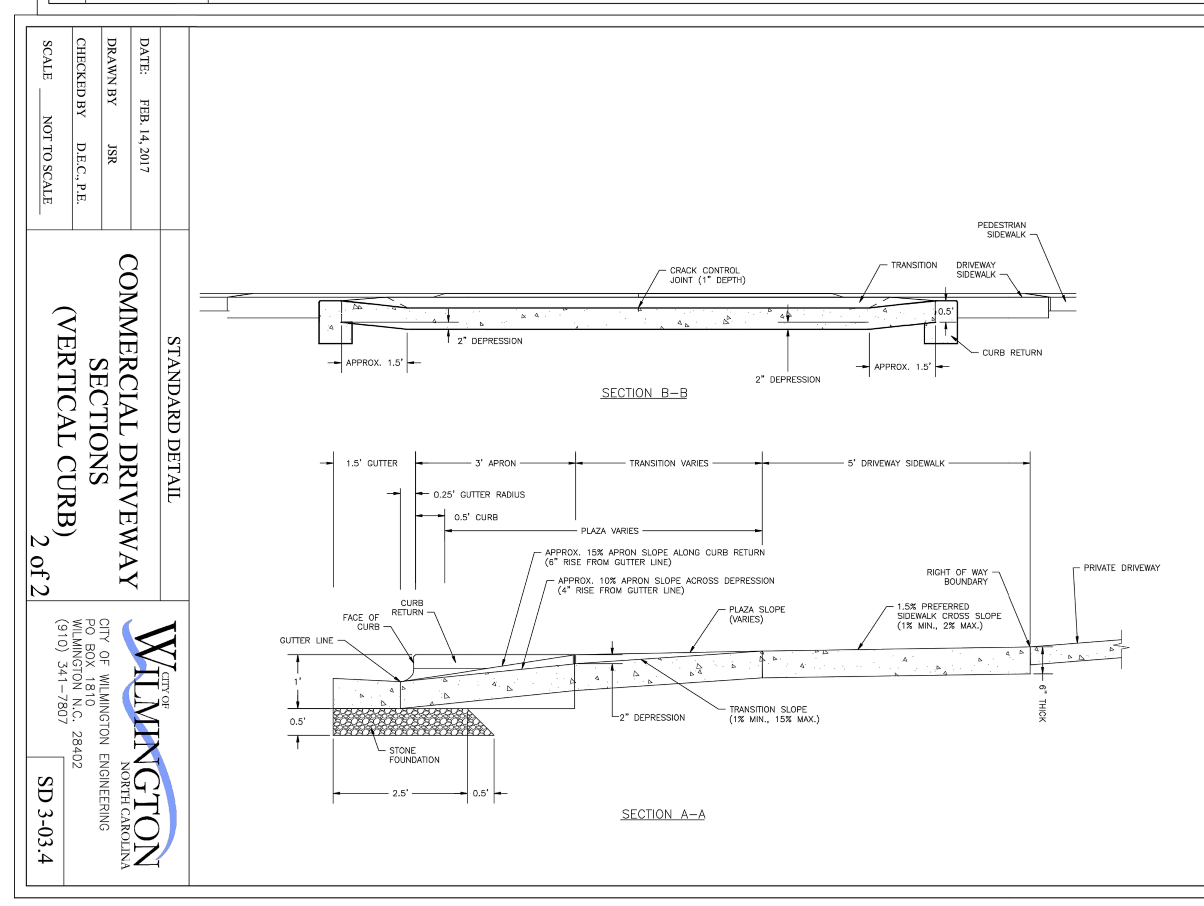
PIPE TRENCH TYPICAL

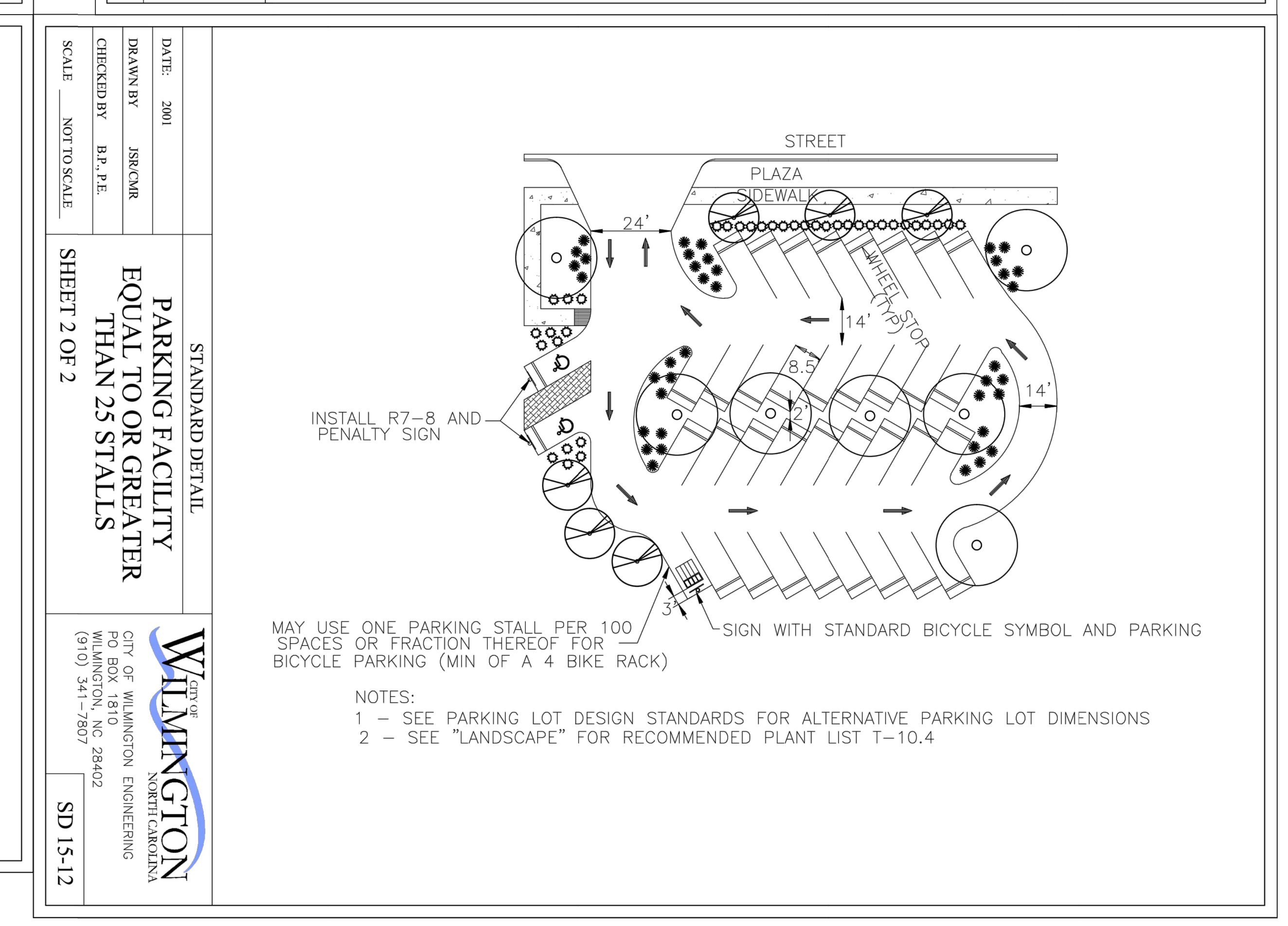
CITY OF WILMINGTON NORTH CAROLINA
CITY OF WILMINGTON
ENGINEERING OFFICE
212 OPERATIONS CENTER DRIVE
WILMINGTON N.C. 28412
(910) 341–7807

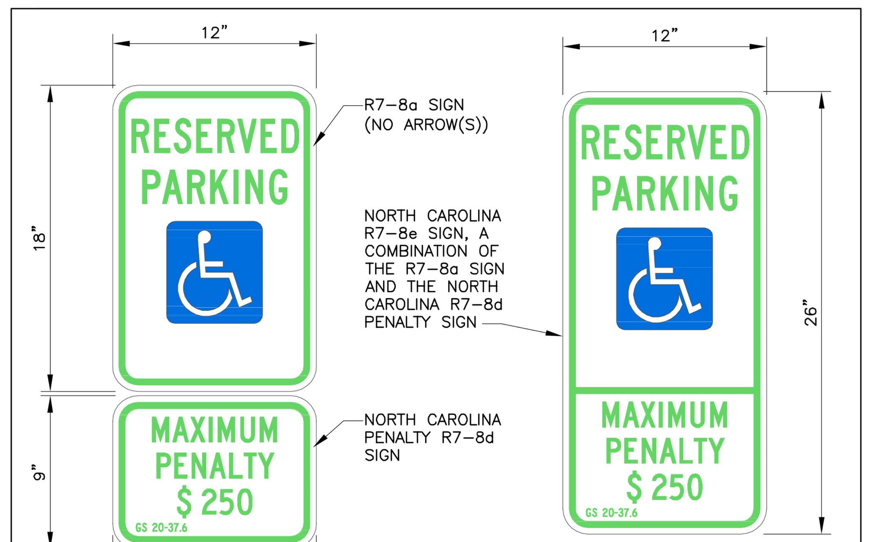
SD 1-07











R7–8a and R7–8d
Signage
Figure A1.1

EITHER THE COMBINATION OF THE R7–8a AND R7–8d SIGNS OR THE R7–8e SIGN CAN BE USED.

R7–8e
Signage
Figure A1.2

VAN ACCESSIBLE

WHERE VAN ACCESSIBLE PARKING IS PROVIDED, THE VAN ACCESSIBLE (R7–8P) SIGN SHALL BE MOUNTED BELOW THE OTHER ACCESSIBLE PARKING SIGNS.
(2009 EDITION MUTCD SECTION 2B.47)

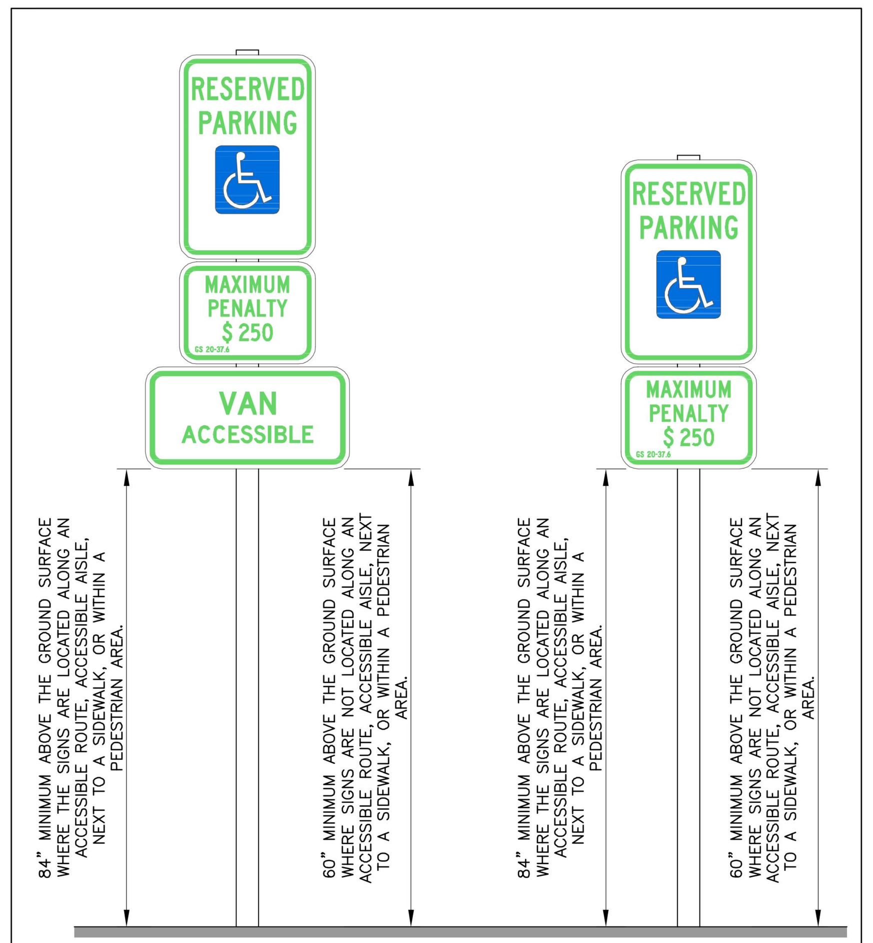
R7–8P
Signage
Figure A1.3

FOR DESIGN OF ACCESSIBLE SIGNS, SEE THE FOLLOWING:
- 2009 MUTCD OR LATEST EDITION.
- 2004 EDITION OF THE STANDARD HIGHWAY SIGNS AND THE 2012 SUPPLEMENT OR LATEST EDITION.
- NORTH CAROLINA 2009 SUPPLEMENT TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES OR LATEST EDITION
- NCDOT DRAWING H–1_S FOR SIGNS SP00075, SP00076, AND SP00077.

DATE:	NOVEMBER 8, 2016
DRAWN BY:	DALE THOMPSON
CHECKED BY:	RANDALL GLAZIER
SCALE:	NOT TO SCALE

ACCESSIBLE PARKING SIGNS AND INSTALLATION DETAILS SHEET A1 OF 5

CITY OF WILMINGTON TRAFFIC ENGINEERING
P.O. Box 1810 • Wilmington, NC 28402 • (910) 341-7888

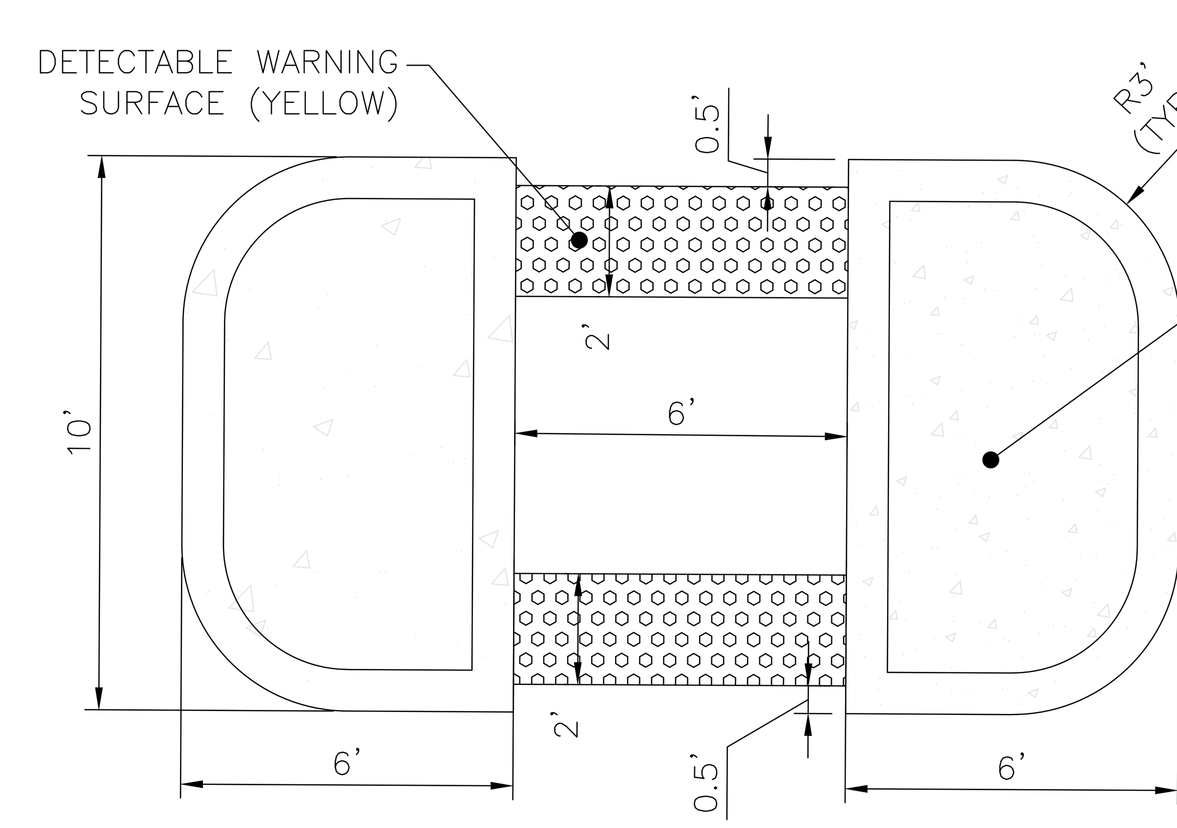


Signage Height
Figure A2.1

DATE:	NOVEMBER 8, 2016
DRAWN BY:	DALE THOMPSON
CHECKED BY:	RANDALL GLAZIER
SCALE:	NOT TO SCALE

ACCESSIBLE PARKING SIGNS AND INSTALLATION DETAILS SHEET A2 OF 5

CITY OF WILMINGTON TRAFFIC ENGINEERING



PEDESTRIAN REFUGE DETAIL

NO SCALE

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ARCHITECTURE + INTERIORS
219 N. Boylan Avenue
Raleigh, North Carolina 27603
t. 919.833.5400
www.isdesignpa.com

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Raleigh, NC 27605–1136 USA
Office: 919.835.4787
email: bdm@thesitegroup.net

THE SITE GROUP, PLLC. LANDSCAPE ARCHITECTURAL CORPORATION CERT. NO. 353 NORTH CAROLINA RALEIGH, N.C.

Project

THE HEALING PLACE OF NEW HANOVER COUNTY

1000 MEDICAL CENTER DR
WILMINGTON, NC

Client

NEW HANOVER COUNTY

Key Plan

Professional Seals

NORTH CAROLINA PROFESSIONAL SEAL 18303 ENGINEER EDWIN F. SCONFIENZA

N

No.	Description	Date
1	SCHEMATIC DESIGN SUBMITTAL	06/19/2018
2	GMP DOCUMENTS	12/21/2018
3	PRE-TRC CONSULTATION	03/24/2020
4	REVISED PER PLANNING (WALTON COMMENTS)	03/25/2020
5	DD DOCUMENTS	04/08/2020
6	PLAN REVIEW DOCUMENTS	07/01/2020
7	PLAN REVIEW DOCUMENTS	09/14/2020

Project Code: HTW

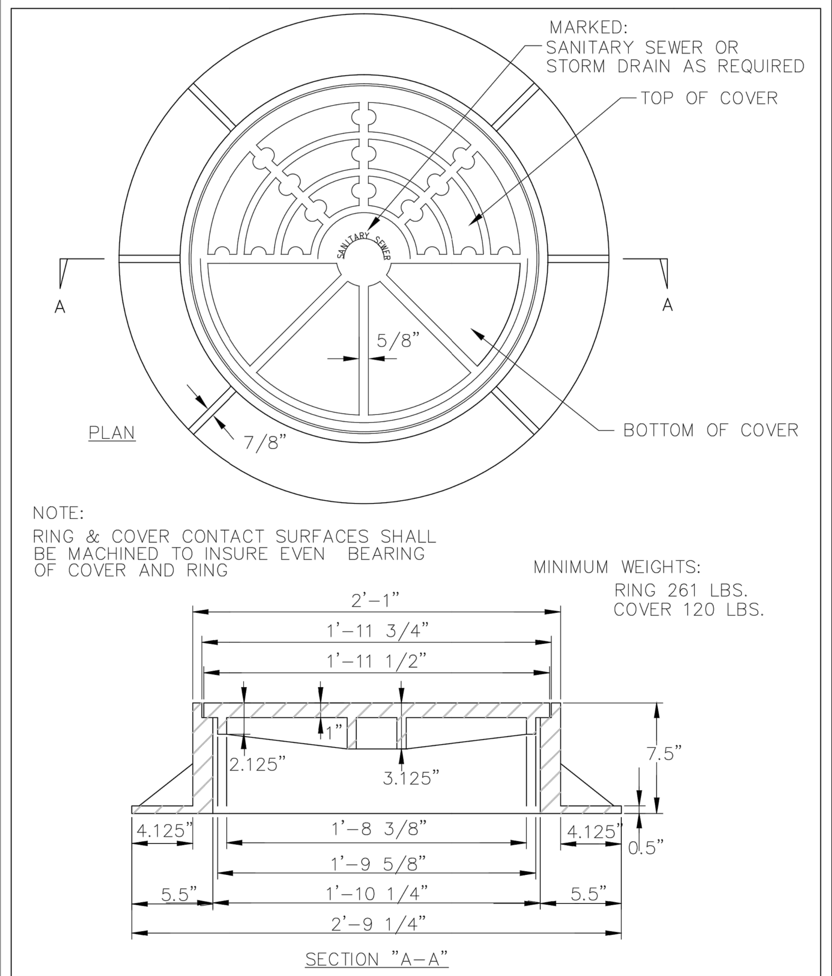
Sheet Title

SITE DETAILS

Original drawing is 42 x 30. Do not scale contents of this drawing

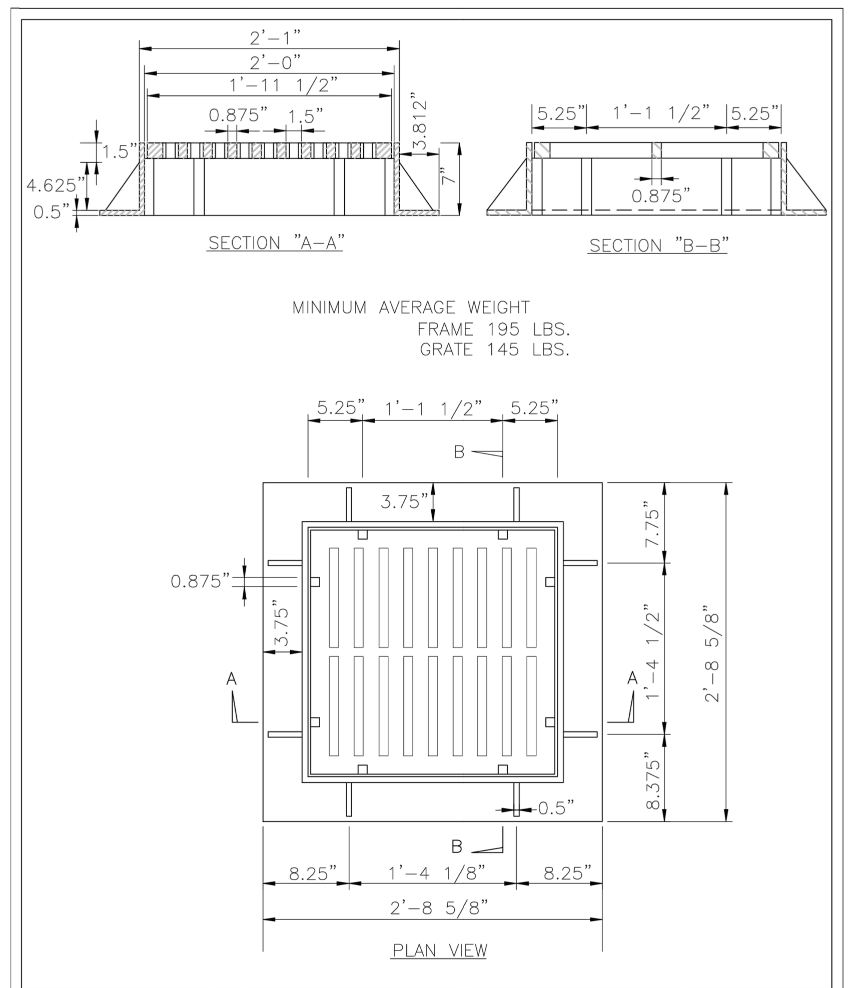
Sheet Number

SITE 600

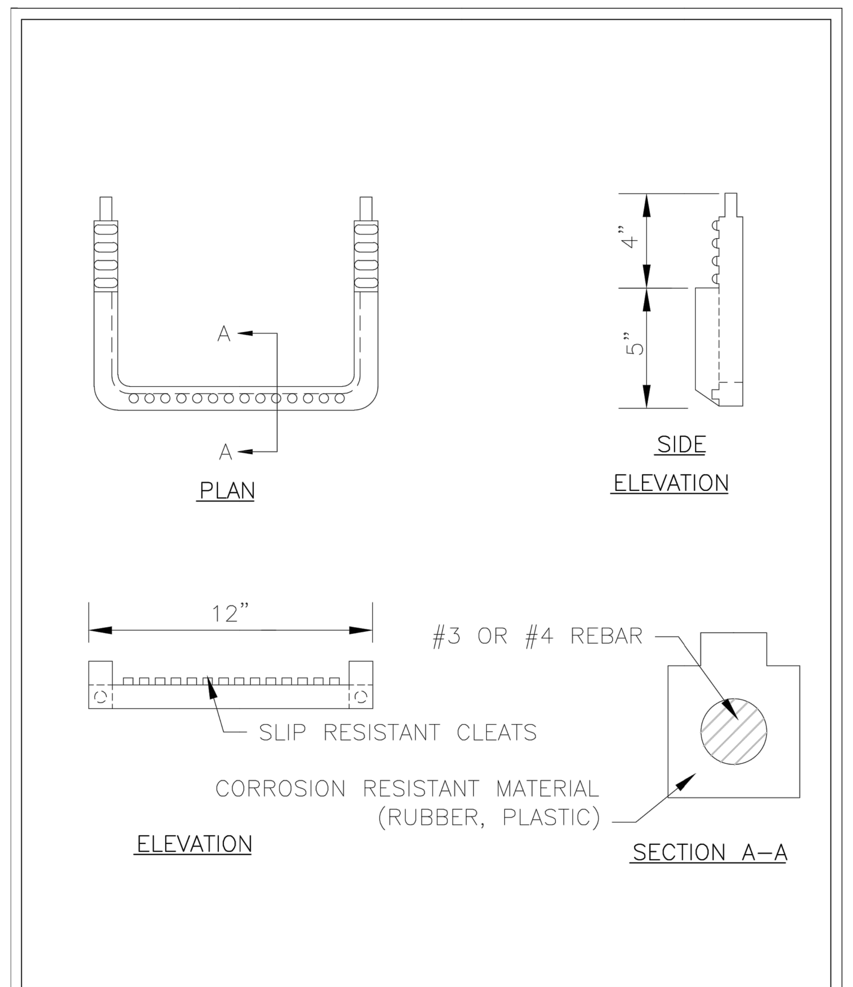


NOTE:
RING & COVER CONTACT SURFACES SHALL BE MACHINED TO INSURE EVEN BEARING OF COVER AND RING

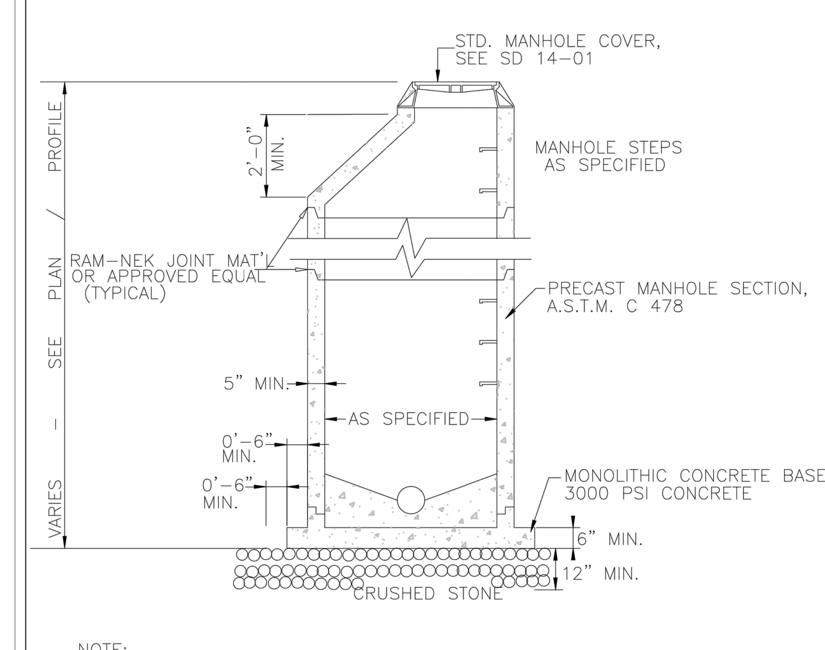
STANDARD DETAIL		
DATE: 2001 / DRAWN BY JSR/CMR / CHECKED BY B.P., P.E. / SCALE NOT TO SCALE	STANDARD MAN-HOLE RING AND COVER	CITY OF WILMINGTON NORTH CAROLINA — CITY OF WILMINGTON ENGINEERING, PO BOX 1810, WILMINGTON, NC 28402, (910) 341-7807 — SD 14-02



STANDARD DETAIL		
DATE: 2001 / DRAWN BY JSR/CMR / CHECKED BY B.P., P.E. / SCALE NOT TO SCALE	GRILL BASIN CASTINGS	CITY OF WILMINGTON NORTH CAROLINA — CITY OF WILMINGTON ENGINEERING, PO BOX 1810, WILMINGTON, NC 28402, (910) 341-7807 — SD 14-04

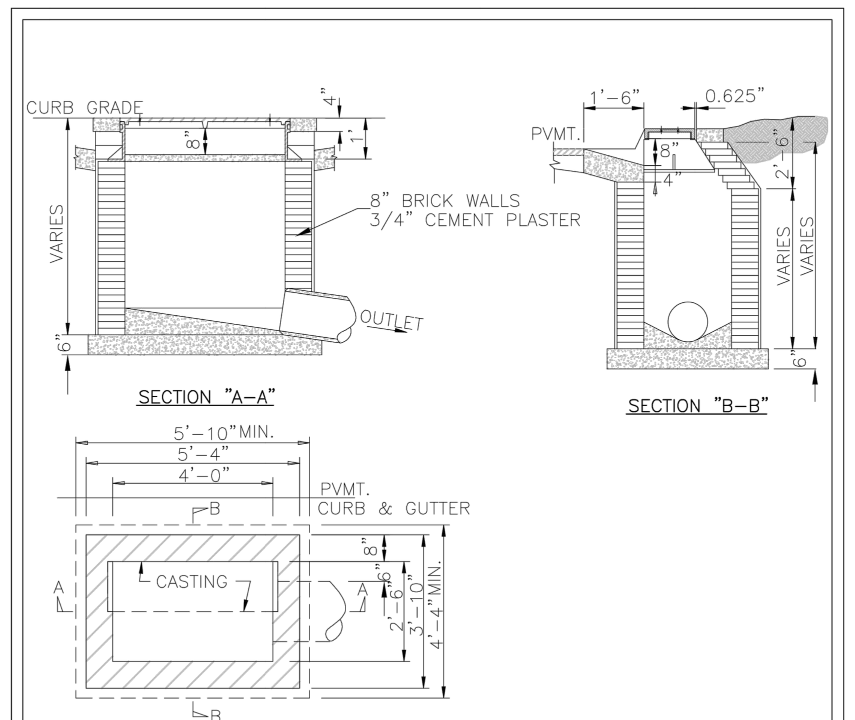


STANDARD DETAIL		
DATE: 2001 / DRAWN BY JSR/CMR / CHECKED BY B.P., P.E. / SCALE NOT TO SCALE	SLIP RESISTANT MANHOLE STEP	CITY OF WILMINGTON NORTH CAROLINA — CITY OF WILMINGTON ENGINEERING, PO BOX 1810, WILMINGTON, NC 28402, (910) 341-7807 — SD 14-10



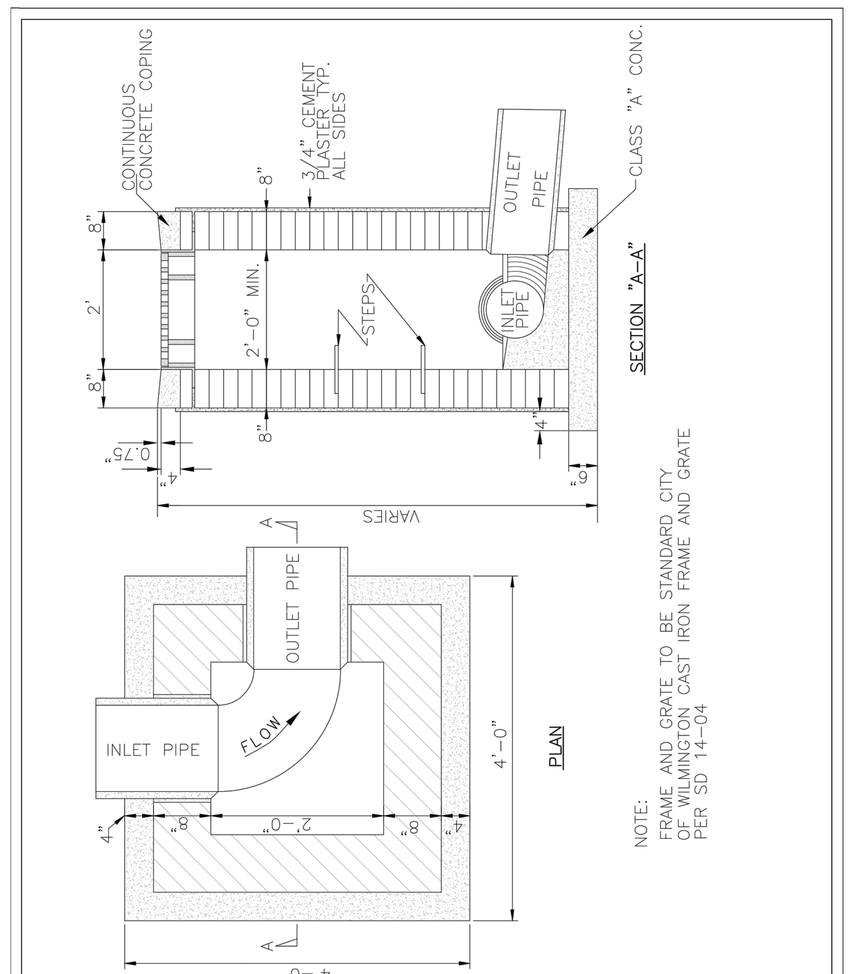
NOTE:
EXTENDED BASE MAY NOT BE REQUIRED WHERE MANHOLES ARE GREATER THAN 4 FEET INSIDE DIAMETER

STANDARD DETAIL		
DATE: 2001 / DRAWN BY JSR/CMR / CHECKED BY B.P., P.E. / SCALE NOT TO SCALE	PRECAST MANHOLE	CITY OF WILMINGTON NORTH CAROLINA — CITY OF WILMINGTON ENGINEERING, PO BOX 1810, WILMINGTON, NC 28402, (910) 341-7807 — SD 14-11



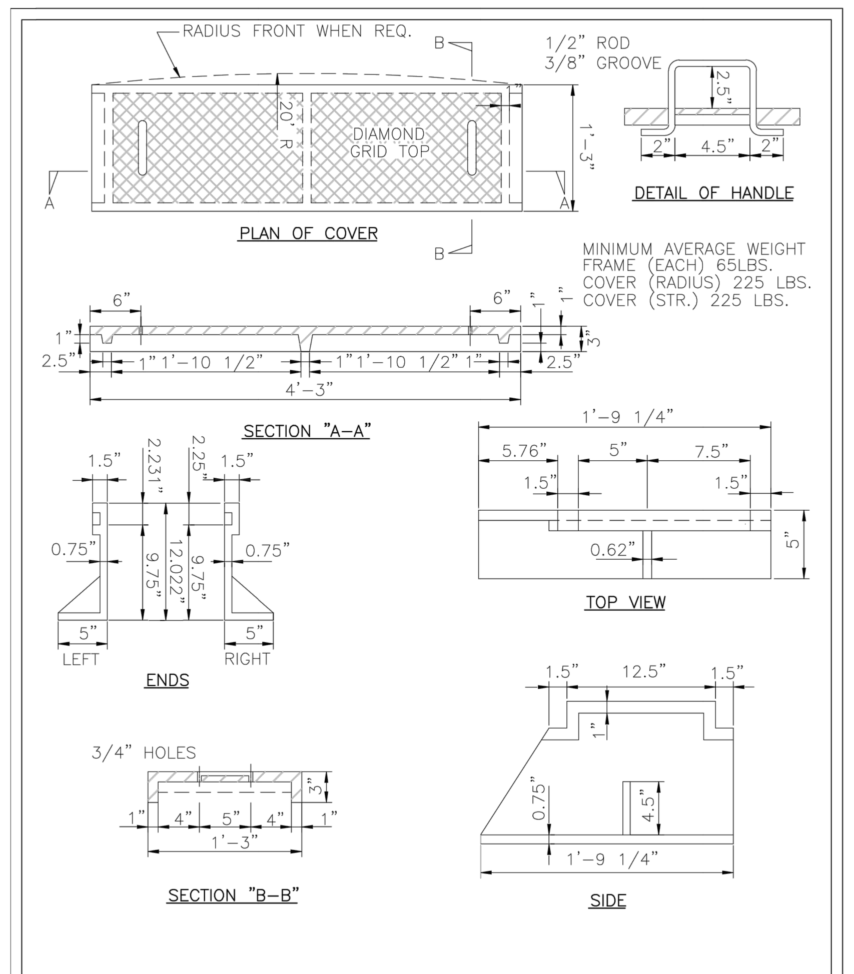
NOTE:
1. 4" DEEP X 8" WIDE CONCRETE COPING ALL AROUND BASIN CASTING.
2. ALL CONCRETE TO BE CLASS "A"
3. FOR CASTING DETAIL SEE SD 2-16

STANDARD DETAIL		
DATE: 2006 / DRAWN BY JSR/CMR / CHECKED BY B.P., P.E. / SCALE NOT TO SCALE	CATCH BASIN	CITY OF WILMINGTON NORTH CAROLINA — CITY OF WILMINGTON ENGINEERING, PO BOX 1810, WILMINGTON, NC 28402, (910) 341-7807 — SD 2-01

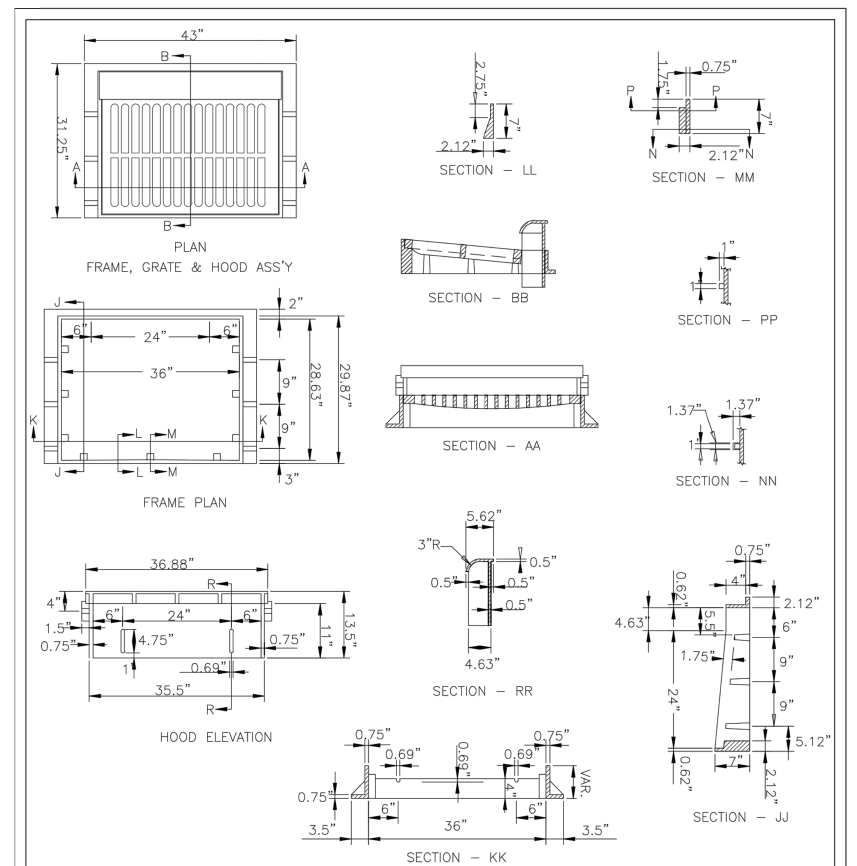


NOTE:
FRAME AND GRATE TO BE STANDARD CITY OF WILMINGTON CAST IRON FRAME AND GRATE PER SD 14-04

STANDARD DETAIL		
DATE: 2001 / DRAWN BY JSR / CHECKED BY B.P., P.E. / SCALE NOT TO SCALE	GRILL BASIN	CITY OF WILMINGTON NORTH CAROLINA — CITY OF WILMINGTON ENGINEERING, PO BOX 1810, WILMINGTON, NC 28402, (910) 341-7807 — SD 2-02

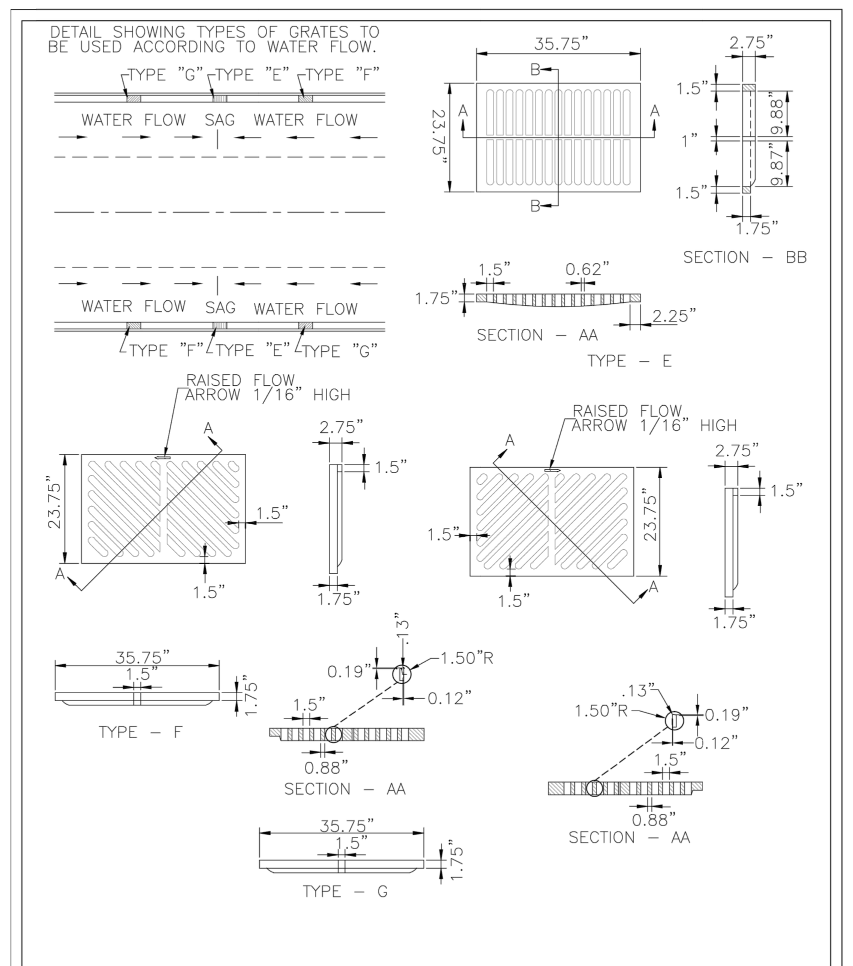


STANDARD DETAIL		
DATE: 2001 / DRAWN BY JSR/CMR / CHECKED BY B.P., P.E. / SCALE NOT TO SCALE	CATCH BASIN CASTINGS DETAIL	CITY OF WILMINGTON NORTH CAROLINA — CITY OF WILMINGTON ENGINEERING, PO BOX 1810, WILMINGTON, NC 28402, (910) 341-7807 — SD 2-16

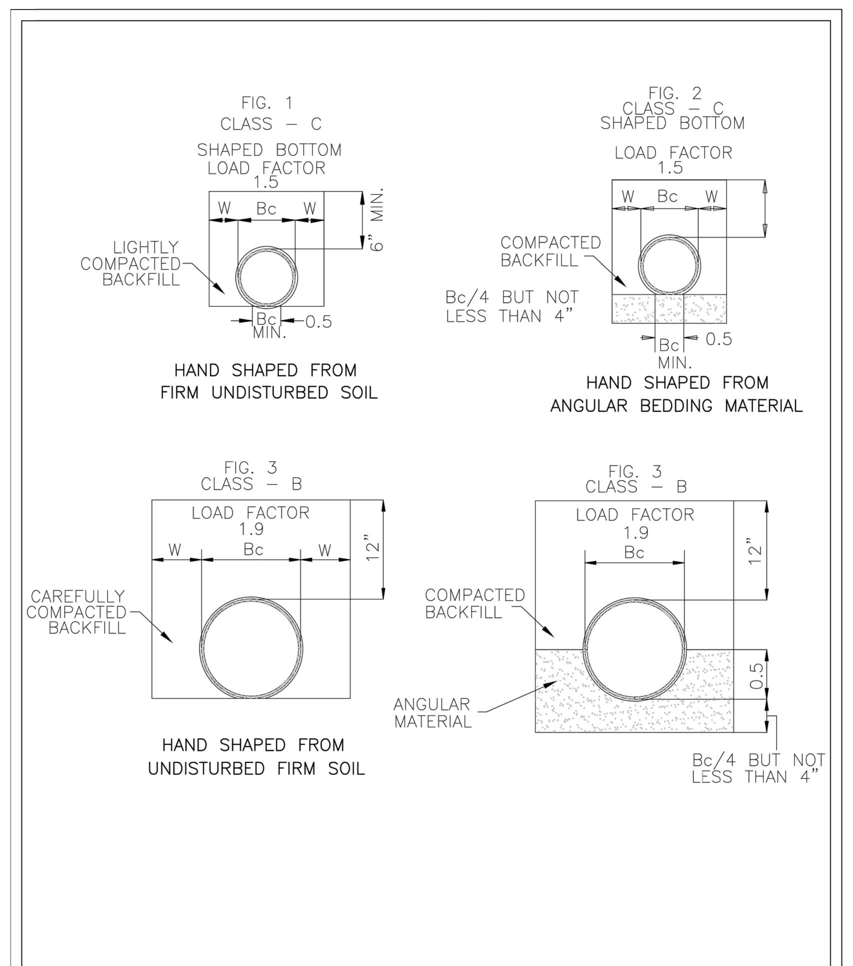


NOTES: 1) USE TYPE "E","F",& "G" GRATE UNLESS OTHERWISE INDICATED
2) TOP OF HOOD CASTING SHALL HAVE RAISED LETTERS WHICH SAY: "KEEP STORM DRAIN CLEAN! DRAINS TO CREEK" PROVIDE PICTURE OF FISH BETWEEN TWO STATEMENTS.

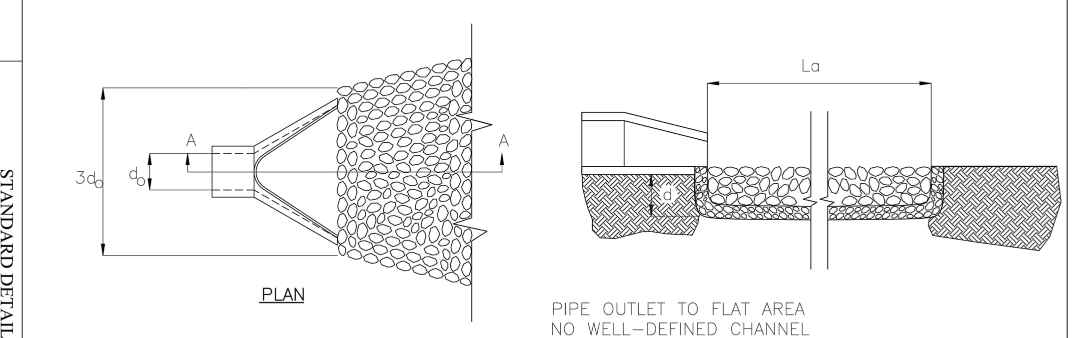
STANDARD DETAIL		
DATE: 2001 / DRAWN BY JSR/CMR / CHECKED BY B.P., P.E. / SCALE NOT TO SCALE	CATCH BASIN CASTING FOR 30" HOOD AND GRATE	CITY OF WILMINGTON NORTH CAROLINA — CITY OF WILMINGTON ENGINEERING, PO BOX 1810, WILMINGTON, NC 28402, (910) 341-7807 — SD 2-19



STANDARD DETAIL		
DATE: 2001 / DRAWN BY JSR/CMR / CHECKED BY B.P., P.E. / SCALE NOT TO SCALE	CATCH BASIN GRATE FOR 30" HOOD AND GRATE	CITY OF WILMINGTON NORTH CAROLINA — CITY OF WILMINGTON ENGINEERING, PO BOX 1810, WILMINGTON, NC 28402, (910) 341-7807 — SD 2-20



STANDARD DETAIL		
DATE: 2001 / DRAWN BY JSR/CMR / CHECKED BY B.P., P.E. / SCALE NOT TO SCALE	GUIDELINES FOR BEDDING DETAILS, STORM SEWER CLASSES (B & C)	CITY OF WILMINGTON NORTH CAROLINA — CITY OF WILMINGTON ENGINEERING, PO BOX 1810, WILMINGTON, NC 28402, (910) 341-7807 — SD 2-17



NOTES:
1. La IS THE LENGTH OF THE RIPRAP APRON.
2. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
3. IN A WELL - DEFINED CHANNEL EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK, WHICHEVER IS LESS.
4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.

STANDARD DETAIL		
DATE: 2001 / DRAWN BY JSR/CMR / CHECKED BY B.P., P.E. / SCALE NOT TO SCALE	PIPE OUTLET PROTECTION	CITY OF WILMINGTON NORTH CAROLINA — CITY OF WILMINGTON ENGINEERING, PO BOX 1810, WILMINGTON, NC 28402, (910) 341-7807 — SD 2-15

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email: bdm@thesitegroup.net
THE SITE GROUP, PLLC — CERT. NO. 353 — RALEIGH, NC

Project
THE HEALING PLACE OF NEW HANOVER COUNTY
1000 MEDICAL CENTER DR
WILMINGTON, NC

Client
NEW HANOVER COUNTY

Key Plan

Professional Seals
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 18303 EDWIN F. SCONFIENZA 9/14/20

N

No.	Description	Date
1	SCHEMATIC DESIGN SUBMITTAL	06/19/2018
2	GMP DOCUMENTS	12/21/2018
3	PRE-TRC CONSULTATION	03/24/2020
4	REVISED PER PLANNING (WALTON COMMENTS)	03/25/2020
5	DD DOCUMENTS	04/08/2020
6	PLAN REVIEW DOCUMENTS	07/01/2020
7	PLAN REVIEW DOCUMENTS	09/14/2020

Project Code: HTW
Sheet Title
SITE DETAILS

Original drawing is 42 x 30. Do not scale contents of this drawing
Sheet Number
SITE 601

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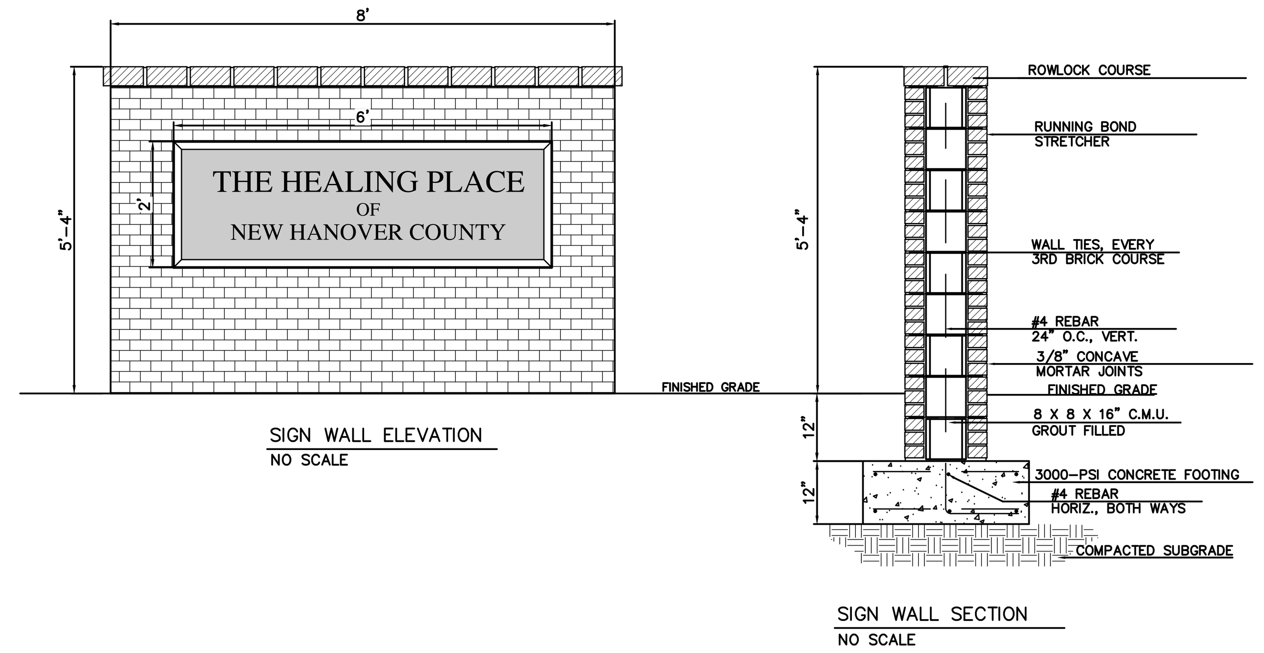
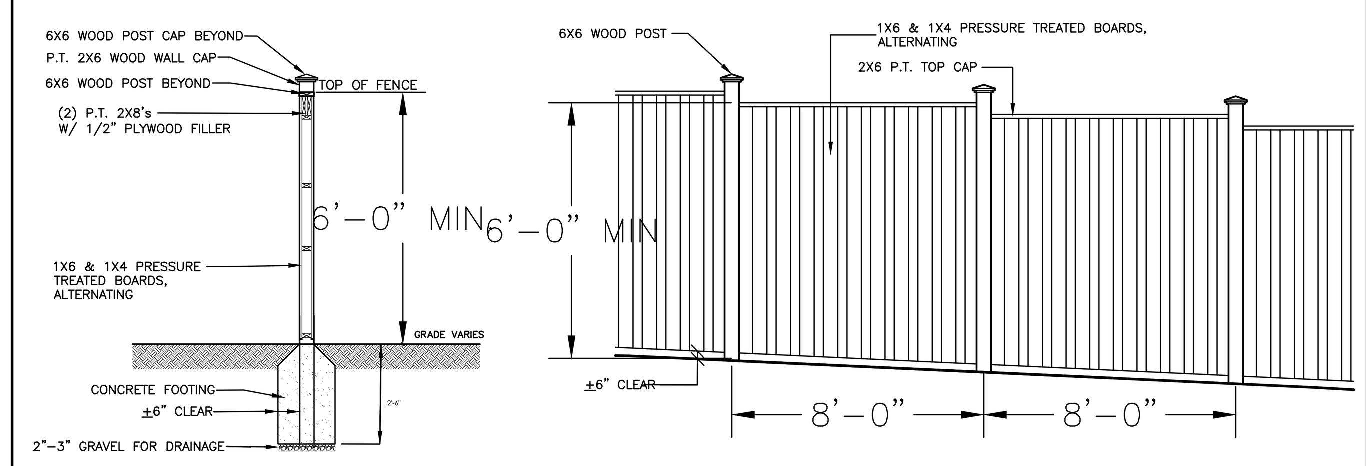
9/16/2020 3:24 PM H:\The SITE Group\Projects\HTW\Dwg\HTW-SITEBASE.dwg

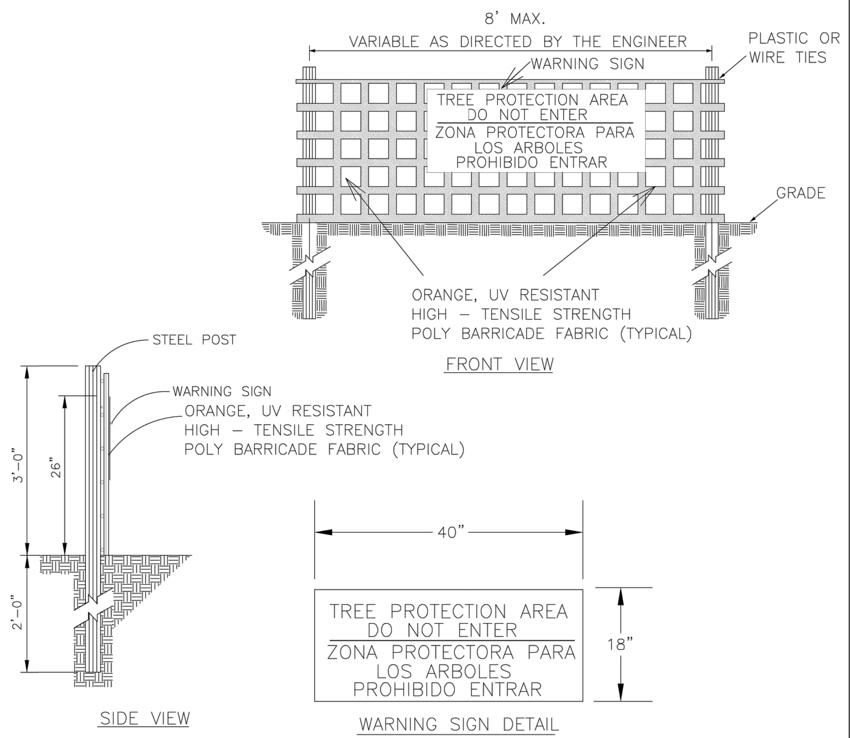


SIGN WALL ELEVATION
NO SCALE

SIGN WALL SECTION
NO SCALE



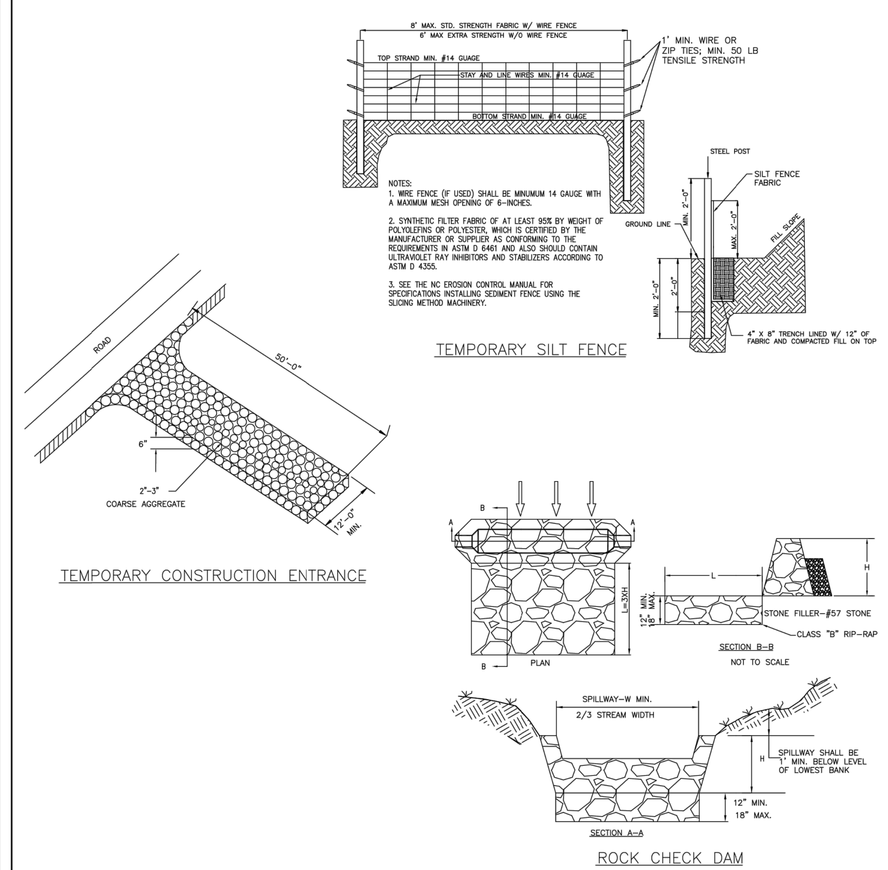
6' WOOD PRIVACY FENCE DETAIL
Not To Scale



NOTES:

1. THE TREE PROTECTION FENCING SHALL NOT BE VIOLATED FOR THE ENTIRE DURATION OF THE PROJECT WITHOUT APPROVAL FROM URBAN FORESTRY STAFF.
2. WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL. LETTERS TO BE 3" HIGH, MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
3. SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER. FOR TREE PROTECTION AREAS LESS THAN 100' IN PERIMETER, PROVIDE NO LESS THAN TWO SIGNS PER PROTECTION AREA.
4. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC. MAINTAIN TREE PROTECTION FENCE AND SIGNS THROUGHOUT DURATION OF PROJECT.
5. TREE PROTECTION FENCING AND SIGNAGE SHALL BE REMOVED AFTER CONSTRUCTION.
6. ADDITIONAL SIGNS MAY BE REQUIRED BY CITY OF WILMINGTON, BASED ON ACTUAL FIELD CONDITIONS.

STANDARD DETAIL		
DATE: JAN, 2015 DRAWN BY JSR CHECKED BY RDG, P.E. SCALE NOT TO SCALE	TREE PROTECTION DURING CONSTRUCTION SHEET 2 of 2	CITY OF WILMINGTON NORTH CAROLINA CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807 SD 15-09

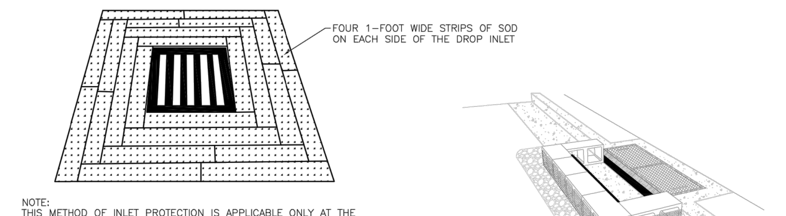


LAND DISTURBING ACTIVITIES MUST BE MANAGED TO AVOID SEDIMENT RUN-OFF AND POLLUTION FROM CONSTRUCTION SITES.

WHERE PERMITTED LOCALLY BY NEW HANOVER COUNTY, AN EROSION AND SEDIMENT CONTROL (E&SC) PLAN WILL CONTAIN DETAILS AND GUIDANCE. E&SC PLANS ARE PERFORMANCE BASED AND OFTEN REQUIRE ADJUSTMENTS OR REPAIRS.

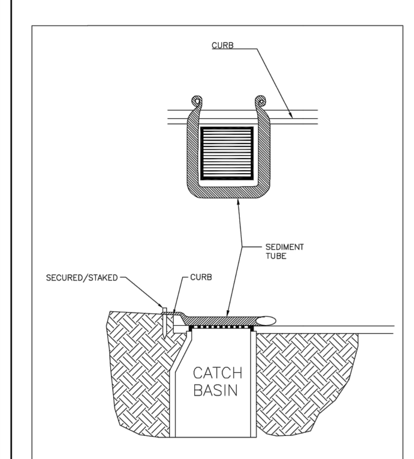
AS PERMITTED BY NCDENR, DIVISIONS OF WATER QUALITY AND LAND RESOURCES, A STORMWATER PERMIT WILL REQUIRE SELF-MONITORING REPORTS (WEEKLY, >1" RAIN EVENT) OR SELF-INSPECTION REPORTS AFTER EACH CONSTRUCTION PHASE, BASED ON ELEMENTS OF THE E&SC PLAN.

STANDARD DETAIL		
DATE: SEPTEMBER, 2012 DRAWN BY JSR CHECKED BY DEC, P.E. SCALE NOT TO SCALE	GUIDELINES FOR SEDIMENT CONTROL BMPs SHEET 1 OF 3	CITY OF WILMINGTON NORTH CAROLINA CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807 SD 3-104

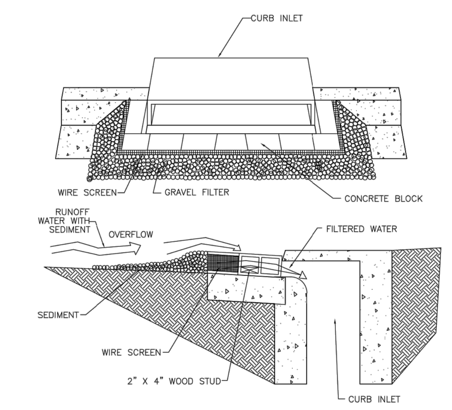


NOTE:
THIS METHOD OF INLET PROTECTION IS APPLICABLE ONLY AT THE TIME OF PERMANENT SEEDING, TO PROTECT THE INLET FROM SEDIMENT AND MULCH MATERIALS UNTIL PERMANENT VEGETATION HAS BECOME ESTABLISHED.

SOD DROP INLET PROTECTION

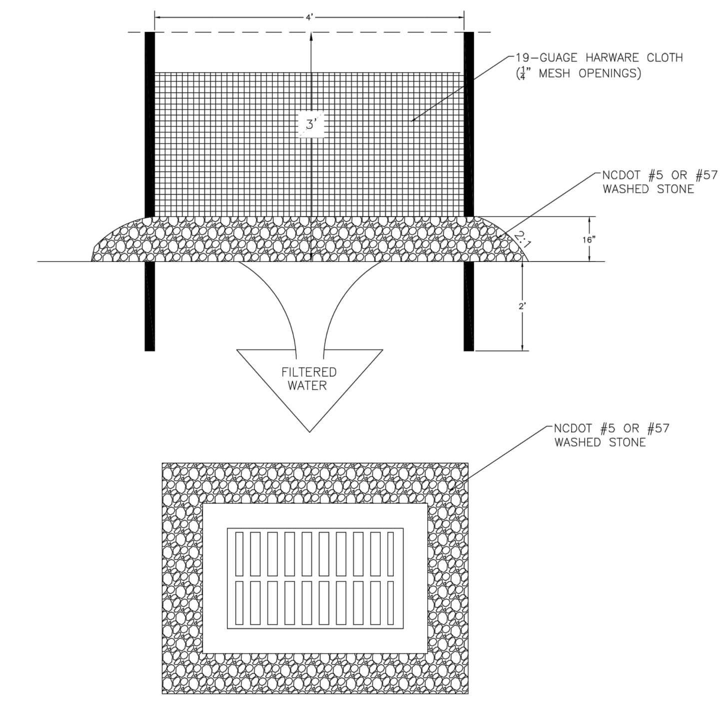


INLET PROTECTION-SEDIMENT TUBE



BLOCK AND GRAVEL INLET PROTECTION

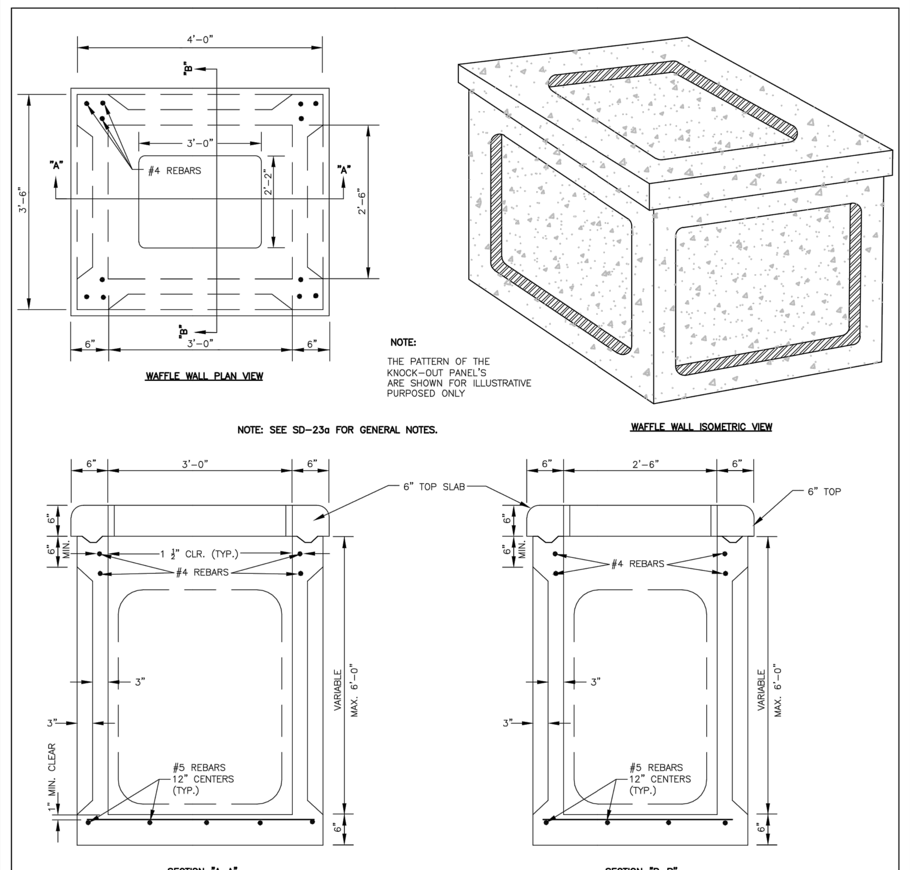
STANDARD DETAIL		
DATE: MAY, 2018 DRAWN BY JSR CHECKED BY DEC, P.E. SCALE NOT TO SCALE	GUIDELINES FOR SEDIMENT CONTROL BMPs SHEET 2 OF 3	CITY OF WILMINGTON NORTH CAROLINA CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807 SD 3-104



NOTES:
1. UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING INLET
2. DRIVE 5-FOOT STEEL POSTS (1.25 LB/LF) 2 FEET INTO GROUND SURROUNDING THE INLET. SPACE POSTS EVENLY AROUND THE PERIMETER OF THE INLET, A MAXIMUM OF 4 FEET APART.
3. SURROUND THE POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POSTS AT THE TOP, MIDDLE AND BOTTOM. PLACING A 2-FOOT FLAP OF THE WIRE MESH UNDER THE GRAVEL FOR ANCHORING IS RECOMMENDED.
4. PLACE CLEAN GRAVEL (NCDOT #5 OR #57 STONE) ON A 2:1 SLOPE WITH A HEIGHT OF 16 INCHES AROUND THE WIRE, AND SMOOTH TO AN EVEN GRADE.
5. ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT, AND ESTABLISH FINAL GRADING ELEVATIONS.
6. COMPACT THE ARE PROPERLY AND STABILIZE IT WITH GROUNDCOVER.

HARDWARE CLOTH AND GRAVEL INLET PROTECTION

STANDARD DETAIL		
DATE: MAY, 2018 DRAWN BY JSR CHECKED BY DEC, P.E. SCALE NOT TO SCALE	GUIDELINES FOR SEDIMENT CONTROL BMPs SHEET 3 OF 3	CITY OF WILMINGTON NORTH CAROLINA CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807 SD 3-104

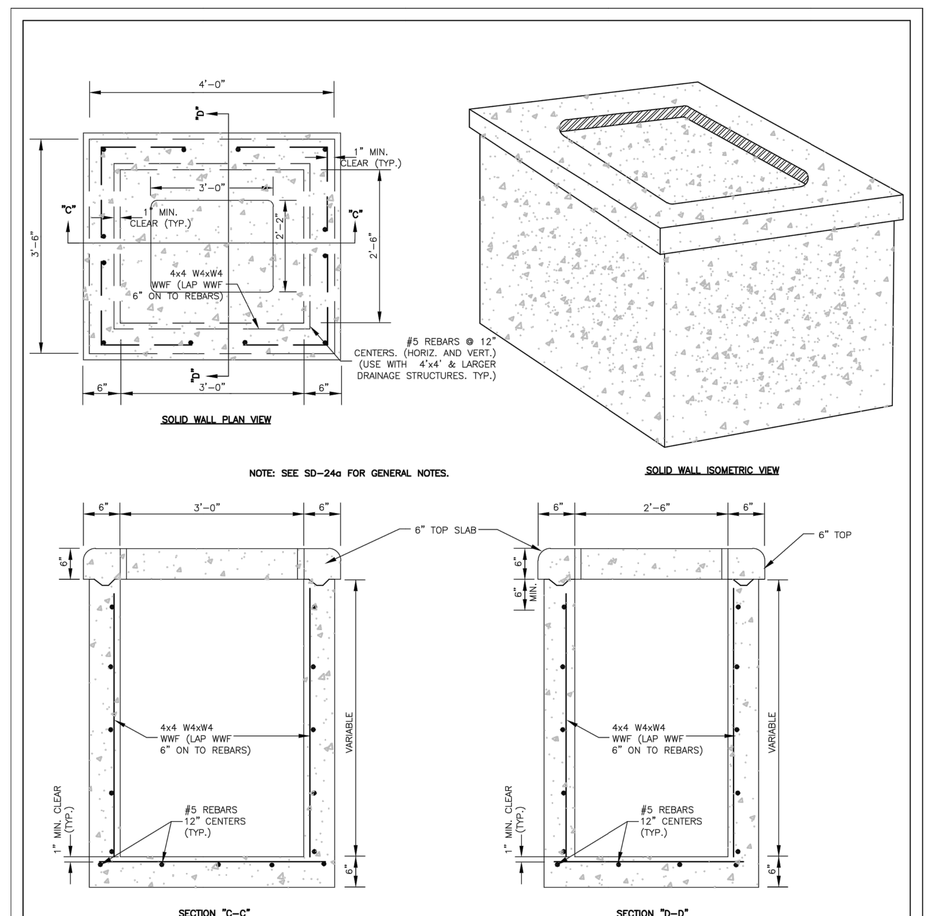


STANDARD DETAIL		
DATE: 2001 DRAWN BY JSR/CMR CHECKED BY B.P., P.E. SCALE NOT TO SCALE	PRECAST WAFFLE DRAINAGE STRUCTURE	CITY OF WILMINGTON NORTH CAROLINA CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807 SD 2-23

GENERAL NOTES:

- USE 4000 PSI CONCRETE, PROVIDE FOR H-20 TRAFFIC LOADING.
- PROVIDE ALL REINFORCING STEEL WHICH MEETS ASTM A615 FOR GRADE 60 AND WELDED WIRE FAVRIC CONFORMING TO ASTM A185.
- LIMIT MAXIMUM DEPTH TO TOP OF BOTTOM SLAB FOR WAFFLE WALL STRUCTURE TO 6'-0".
- PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704
- SAW CUT, CORE DRILL OR FORM OPENINGS, FOR PIPE TO PROVIDE REQUIRED SIZE AND LOCATION. ORIENT WAFFLE WALL STRUCTURES SO THAT PIPES ENTER THROUGH THE KNOCKOUT/WAFFLE PANELS ONLY. SEAL OPENINGS WITH HYDRAULIC CEMENT.
- ALL ELEMENTS PRECAST TO MEET ASTM C913.
- SET ON 6" WASHED STONE
- FRAME AND GRATE HEIGHT MAY BE ADJUSTED WITH BRICK.
- PROVIDE PRECAST STURCTURES OVER 4'-0" IN DEPTH WITH STEPS/LADDER INSTALLED IN ACCORDANCE WITH ASHA STANDARD 1910.27 AND AS FIELD CONDITIONS DICTATE.
- WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR AS LONG AS THE SAME AREA OF STEEL IS PROVIDED.
- SEAL JOINTS WITH A FLEXIBLE BUTYL RUBBER BASE CONFORMING TO FEDERAL SPECIFICATION SS-S-21A, AASHTO M-19B, TYPE B - BUTYL RUBBER.
- LIMIT MAXIMUM STRUCTURE SIZE TO INSIDE CLEAR DEMENSIONS OF 2'- 6" x 3' - 0".
- USE FRAME AND GRATE AS PER SD-19.
- GROUT INVERT TO PROVIDE SMOOTH FLOW

STANDARD DETAIL		
DATE: 2001 DRAWN BY JSR/CMR CHECKED BY B.P., P.E. SCALE NOT TO SCALE	PRECAST WAFFLE DRAINAGE STRUCTURE GENERAL NOTES	CITY OF WILMINGTON NORTH CAROLINA CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807 SD 2-23a



STANDARD DETAIL		
DATE: 2001 DRAWN BY JSR/CMR CHECKED BY B.P., P.E. SCALE NOT TO SCALE	PRECAST DRAINAGE STRUCTURE SOLID WALL	CITY OF WILMINGTON NORTH CAROLINA CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807 SD 2-24

GENERAL NOTES:

- USE 4000 PSI CONCRETE, PROVIDE FOR H-20 TRAFFIC LOADING.
- PROVIDE ALL REINFORCING STEEL WHICH MEETS ASTM A615 FOR GRADE 60 AND WELDED WIRE FAVRIC CONFORMING TO ASTM A185.
- PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704
- PROVIDE FORMED OPENINGS, FOR PIPE TO PROVIDE REQUIRED SIZE AND LOCATION. SEAL OPENINGS WITH HYDRAULIC CEMENT.
- ALL ELEMENTS PRECAST TO MEET ASTM C913.
- SET ON 6" WASHED STONE
- FRAME AND GRATE HEIGHT MAY BE ADJUSTED WITH BRICK.
- PROVIDE PRECAST STURCTURES OVER 4'-0" IN DEPTH WITH STEPS/LADDER INSTALLED IN ACCORDANCE WITH ASHA STANDARD 1910.27 AND AS FIELD CONDITIONS DICTATE.
- WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR AS LONG AS THE SAME AREA OF STEEL IS PROVIDED.
- SEAL JOINTS WITH A FLEXIBLE BUTYL RUBBER BASE CONFORMING TO FEDERAL SPECIFICATION SS-S-21A, AASHTO M-19B, TYPE B - BUTYL RUBBER.
- USE FRAME AND GRATE AS PER SD-19.
- GROUT INVERT TO PROVIDE SMOOTH FLOW

STANDARD DETAIL		
DATE: 2001 DRAWN BY JSR/CMR CHECKED BY B.P., P.E. SCALE NOT TO SCALE	PRECAST DRAINAGE STRUCTURE GENERAL NOTES	CITY OF WILMINGTON NORTH CAROLINA CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807 SD 2-24a

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email: bdm@thesitegroup.net

THE SITE GROUP, PLLC. LANDSCAPE ARCHITECTURAL CORPORATION CERT. NO. 353 NORTH CAROLINA RALEIGH, N.C.

Project
THE HEALING PLACE OF NEW HANOVER COUNTY
1000 MEDICAL CENTER DR
WILMINGTON, NC

Client
NEW HANOVER COUNTY

Key Plan

Professional Seals
NORTH CAROLINA PROFESSIONAL SEAL 18303 ENGINEER EDWIN F. SCONFIENZA
09/14/20

N

No.	Description	Date
1	SCHEMATIC DESIGN SUBMITTAL	06/19/2018
2	GMP DOCUMENTS	12/21/2018
3	PRE-TRC CONSULTATION	03/24/2020
4	REVISED PER PLANNING (WALTON COMMENTS)	03/25/2020
5	DD DOCUMENTS	04/08/2020
6	PLAN REVIEW DOCUMENTS	07/01/2020
7	PLAN REVIEW DOCUMENTS	09/14/2020

Project Code: HTW
Sheet Title
SITE DETAILS

Original drawing is 42 x 30. Do not scale contents of this drawing
Sheet Number
SITE 602

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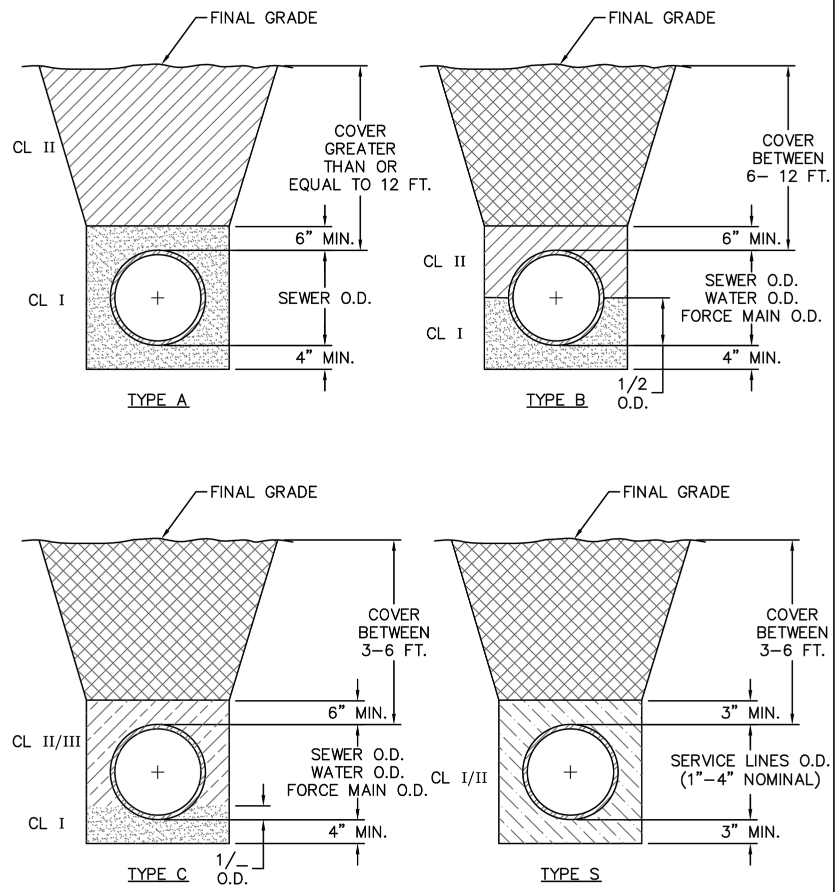
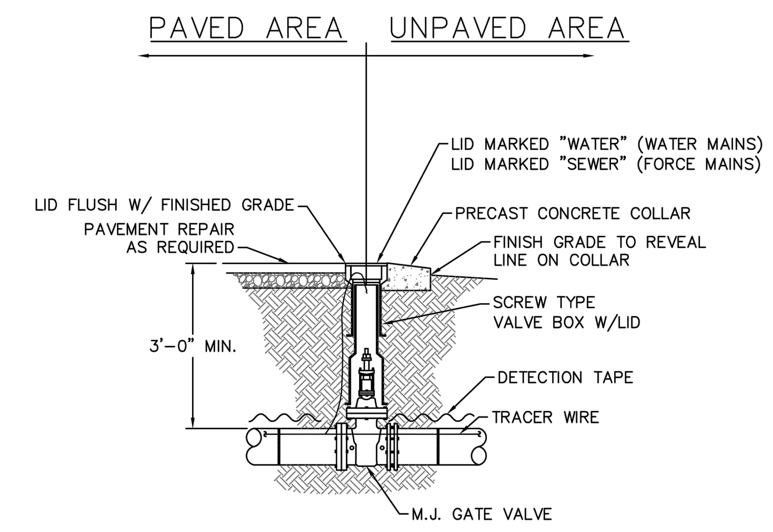
9/16/2020 3:22 PM H:\The SITE Group\Projects\HTW\Dwg\HTW-SITEBASE.dwg



COMPACTION NOTES:

1. ALL ZONES: 95% STD EFFORT PER ASTM D698, EXCEPT AS STATED IN COMPACTION NOTE 2.
2. 12" SUBGRADE UNDER PAVEMENT: 98% STD EFFORT PER ASTM D698.

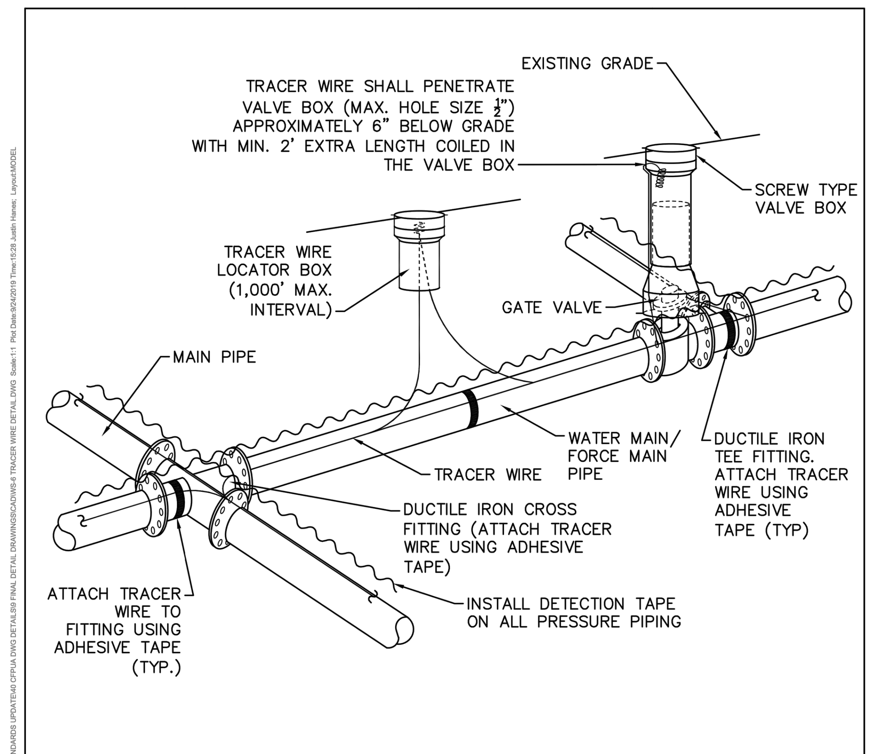
DETAIL: PIPE EMBEDMENT TYPES	CAPE FEAR PUBLIC UTILITY AUTHORITY, 235 GOVERNMENT CENTER DRIVE, WILMINGTON, NC 28403, OFFICE: (910)332-6560	DETAIL NO: WS-4
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/20 / CFPUA REV. No: 2	Stewardship. Sustainability. Service.	SHEET NO: -



NOTES:

1. TRACER WIRE SHALL PENETRATE VALVE BOX THROUGH DRILLED HOLE APPROX. 6" BELOW GRADE WITH MINIMUM 2-FEET EXTRA LENGTH COILED IN THE VALVE BOX. SEE WS-6.

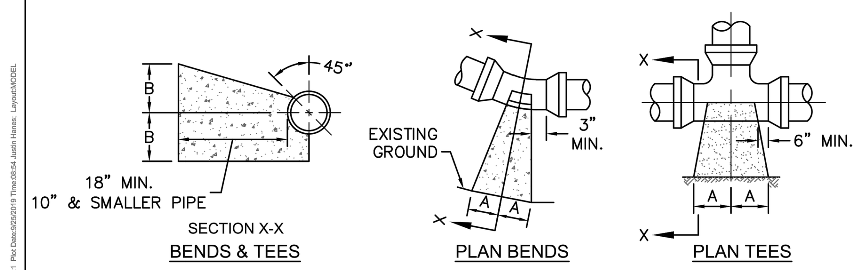
DETAIL: VALVE DETAIL	CAPE FEAR PUBLIC UTILITY AUTHORITY, 235 GOVERNMENT CENTER DRIVE, WILMINGTON, NC 28403, OFFICE: (910)332-6560	DETAIL NO: WS-5
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/20 / CFPUA REV. No: 2	Stewardship. Sustainability. Service.	SHEET NO: -



NOTES:

1. TRACER WIRE SHALL BE INSTALLED PER THE CFPUA MSM.
2. WIRE SHALL BE STRAPPED TO ALL PVC PIPING WITH ADHESIVE TAPE AT 12 FOOT INTERVALS.
3. SECURE WIRE TO ALL TEE AND CROSS FITTINGS WITH ADHESIVE TAPE.
4. ALL SPLICES IN THE WIRE SHALL BE MADE WITH 3M DBR DIRECT BURY SPLICE KITS.

DETAIL: TRACER WIRE DETAIL	CAPE FEAR PUBLIC UTILITY AUTHORITY, 235 GOVERNMENT CENTER DRIVE, WILMINGTON, NC 28403, OFFICE: (910)332-6560	DETAIL NO: WS-6
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/20 / CFPUA REV. No: 2	Stewardship. Sustainability. Service.	SHEET NO: -



SIZE	90 BENDS A	90 BENDS B	45 BENDS A	45 BENDS B	22–1/2 BENDS A	22–1/2 BENDS B	TEES/PLUGS A	TEES/PLUGS B	45 VERT. BENDS
3"	8"	6"	5"	6"	3"	7"	6"	8"	27"
4"	8"	9"	5"	8"	3"	11"	6"	9"	28"
6"	14"	11"	9"	9"	8"	8"	12"	9"	36"
8"	16"	16"	12"	12"	10"	13"	14"	13"	42"
10"	18"	22"	15"	14"	14"	16"	18"	15"	50"
12"	20"	28"	18"	17"	16"	16"	22"	18"	62"
14"	26"	29"	21"	19"	18"	18"	26"	20"	72"
16"	33"	29"	25"	21"	20"	21"	32"	21"	83"
18"	40"	30"	28"	24"	22"	23"	36"	24"	88"

NOTES:

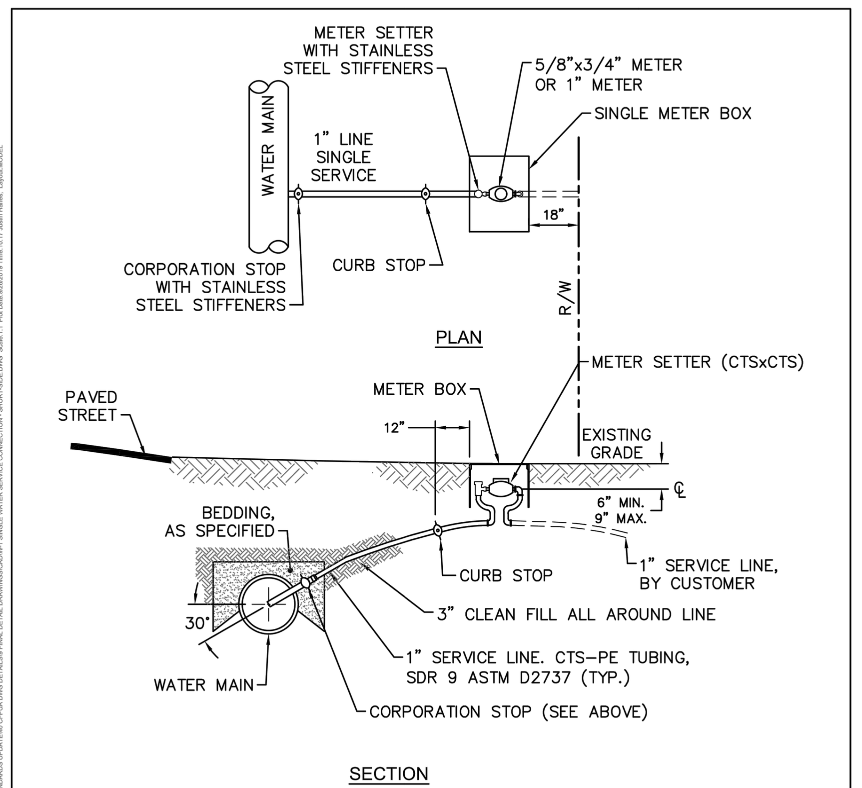
1. THRUST BLOCKING IS NOT PERMITTED EXCEPT IN SPECIAL INSTALLATIONS WHERE DESIGNED BY ENGINEER AND APPROVED BY CFPUA.
2. ALLOW 7–DAY MINIMUM CONCRETE CURE TIME BEFORE PLACING LOAD ON THRUST BLOCK
3. BASED ON 160 PSI TEST PRESSURE AND 2,000 PSF SOIL BEARING CAPACITY.
4. ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED GROUND.
5. PIPE & FITTINGS TO BE WRAPPED IN 10 MIL PLASTIC PRIOR TO THRUST BLOCK BEING POURED.

DETAIL: THRUST BLOCK	CAPE FEAR PUBLIC UTILITY AUTHORITY, 235 GOVERNMENT CENTER DRIVE, WILMINGTON, NC 28403, OFFICE: (910)332-6560	DETAIL NO: WS-13
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/20 / CFPUA REV. No: 2	Stewardship. Sustainability. Service.	SHEET NO: -

CAPE FEAR PUBLIC UTILITY AUTHORITY STANDARD NOTES:

1. ALL PROPOSED ADDITIONS TO THE CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) WATER DISTRIBUTION AND SANITARY SEWER COLLECTION SYSTEMS, AS SHOWN AND SPECIFIED HEREIN, SHALL BE DESIGNED AND CONSTRUCTED TO CONFORM TO STATE RULES AND THE CFPUA'S MINIMUM TECHNICAL STANDARDS. THE CFPUA MINIMUM TECHNICAL STANDARDS ARE CONTAINED IN THE CURRENT DESIGN GUIDANCE MANUAL, MATERIAL SPECIFICATION MANUAL, TECHNICAL SPECIFICATIONS FOR CONSTRUCTION, AND STANDARD DRAWING DETAILS.
2. SEWER GUARDS REQUIRED AT ALL MANHOLES. STAINLESS STEEL SEWER GUARDS REQUIRED AT MANHOLES LOCATED IN TRAFFIC AREAS.
3. WATER AND SEWER SERVICES SHALL BE PERPENDICULAR TO MAIN AND TERMINATE 18" INSIDE RIGHT–OF–WAY LINE. SEWER SERVICES IN CUL–DE–SACS ARE REQUIRED TO BE PERPENDICULAR, OR MUST ORIGINATE IN END OF LINE MANHOLE AND TERMINATE 18" INSIDE RIGHT–OF–WAY LINE.
4. ALL SEWER SERVICES CONNECTING INTO DUCTILE IRON MAINS SHALL ALSO BE CONSTRUCTED OF DIP.
5. MINIMUM 10' UTILITIES EASEMENT PROVIDED ALONG THE FRONTAGE OF ALL LOTS AND AS SHOWN FOR NEW DEVELOPMENTS.
6. NO FLEXIBLE COUPLINGS SHALL BE USED.
7. ALL STAINLESS STEEL FASTENERS SHALL BE TYPE 316.
8. CLEANOUTS SHALL BE LOCATED A MINIMUM OF 6 FEET FROM ALL PROPERTY CORNERS.
9. WATER METER BOXES ARE TO BE A MINIMUM OF 5 FEET FROM THE PROPERTY CORNER.
10. UNUSED SERVICES SHALL BE ABANDONED. ABANDONED WATER SERVICES SHALL BE DISCONNECTED FROM MAIN.
11. A MINIMUM OF 10' OF MAIN LINE, 5' UPSTREAM AND 5' DOWNSTREAM SHALL BE REPLACED FOR NEW SEWER SERVICE CONNECTIONS TO EXISTING CLAY GRAVITY SEWER MAINS.
12. A MINIMUM OF 20' OF MAIN LINE, 10' UPSTREAM AND 10' DOWNSTREAM SHALL BE REPLACED FOR NEW CUT IN MANHOLES ON EXISTING CLAY GRAVITY SEWER MAINS
13. PROVIDE A MINIMUM DISTANCE OF SIX (6) INCHES BETWEEN EDGE OF MANHOLE CORE HOLES AND MANHOLE BARREL JOINTS. PROVIDE A MINIMUM DISTANCE OF SIX (6) INCHES BETWEEN EDGES OF CORE HOLES. CORING THE MANHOLE CONE IS NOT PERMITTED
14. WATER MAIN AND FORCE MAIN PIPE INSTALLED BY OPEN CUT SHALL BE BURIED AT A MINIMUM OF THREE (3) FEET AND A MAXIMUM OF FIVE (5) FEET BELOW FINISHED GRADE. DEPTHS GREATER THAN FIVE (5) FEET MUST BE APPROVED BY CFPUA.
15. ALL MANHOLE MAIN LINE AND SERVICE PIPING TO BE INSTALLED AT A MINIMUM OF CROWN TO CROWN OF THE LARGEST DIAMETER PIPE.

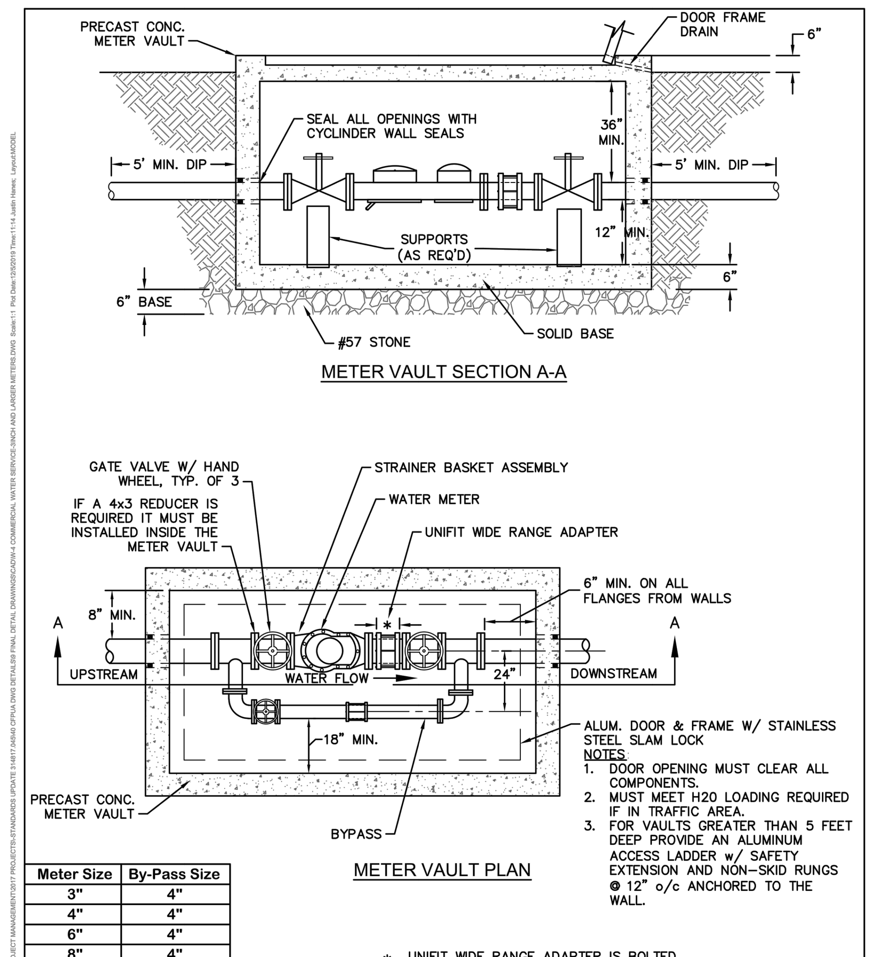
DETAIL: STANDARD NOTES (REQUIRED ON ALL PLAN AND PROFILE SHEETS)	CAPE FEAR PUBLIC UTILITY AUTHORITY, 235 GOVERNMENT CENTER DRIVE, WILMINGTON, NC 28403, OFFICE: (910)332-6560	DETAIL NO: WS-14
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/20 / CFPUA REV. No: 2	Stewardship. Sustainability. Service.	SHEET NO: -



NOTES:

1. NO JOINT SHALL BE INSTALLED BETWEEN THE MAIN SERVICE TAP AND THE METER STOP. ALL SERVICES SHALL BE INSTALLED PERPENDICULAR TO MAIN.
2. SERVICE SADDLES ON PVC MAINS SHALL BE WIDE BAND BRASS BODY.
3. METER BOXES SUBJECT TO TRAFFIC LOADS SHALL CONFORM TO ASTM A48, CLASS 30B AND AASHTO H20 LOAD RATING STANDARDS.
4. WATER SERVICE LINE SHALL TERMINATE 18" WITHIN RIGHT–OF–WAY LINE.
5. WATER METER BOXES ARE TO BE A MINIMUM OF 5 FEET FROM THE PROPERTY CORNER.
6. SERVICE PIPING AND METER SETTER TO BE CENTERED IN THE METER BOX.

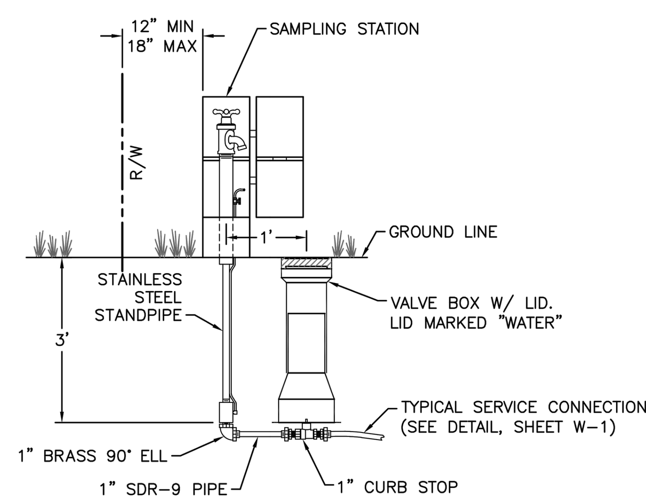
DETAIL: SINGLE WATER SERVICE CONNECTION - TYPICAL SHORT-SIDE CONNECTION	CAPE FEAR PUBLIC UTILITY AUTHORITY, 235 GOVERNMENT CENTER DRIVE, WILMINGTON, NC 28403, OFFICE: (910)332-6560	DETAIL NO: W-1
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/20 / CFPUA REV. No: 2	Stewardship. Sustainability. Service.	SHEET NO: -



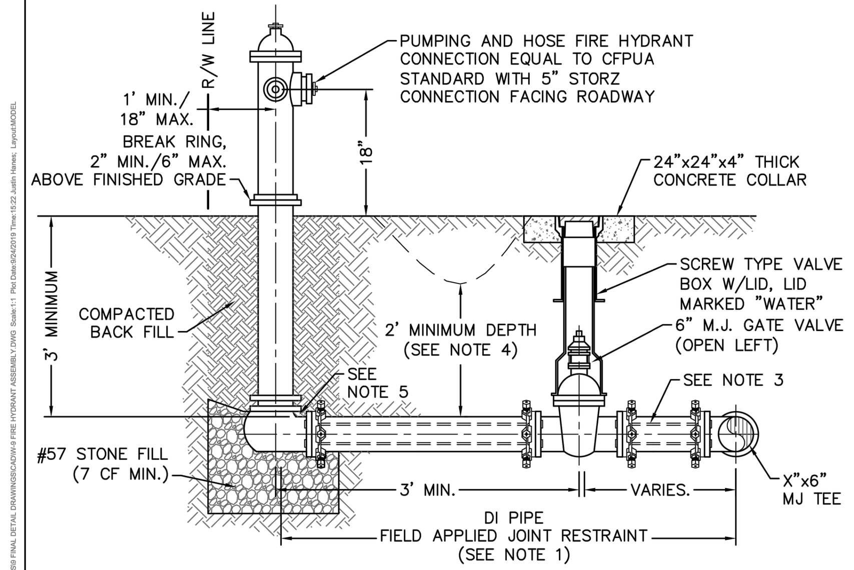
Meter Size	By-Pass Size
3"	4"
4"	4"
6"	4"
8"	4"
10"	6"
12"	8"

* UNIFIT WIDE RANGE ADAPTER IS BOLTED DIRECTLY TO METER, ONLY ONE PExFLG PIECE THAT IS 3 TIMES THE PIPE DIAMETER.

DETAIL: COMMERCIAL WATER SERVICE - 3-INCH AND LARGER METERS	CAPE FEAR PUBLIC UTILITY AUTHORITY, 235 GOVERNMENT CENTER DRIVE, WILMINGTON, NC 28403, OFFICE: (910)332-6560	DETAIL NO: W-4
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/20 / CFPUA REV. No: 2	Stewardship. Sustainability. Service.	SHEET NO: -



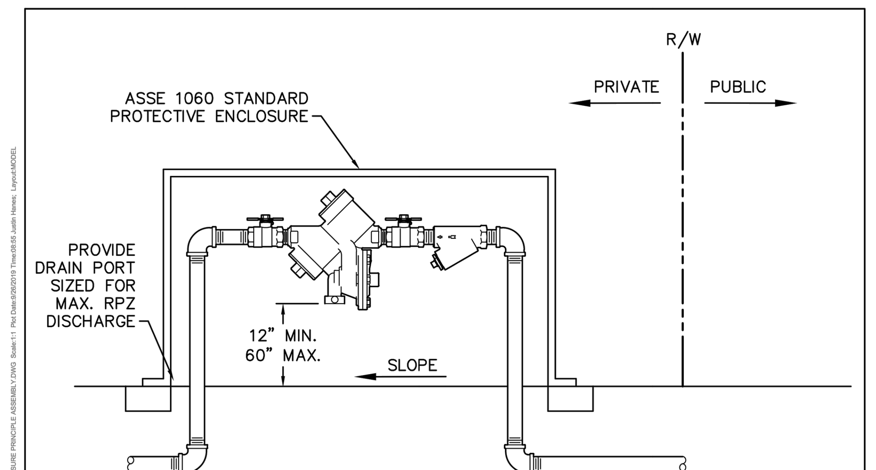
DETAIL: SAMPLING STATION	CAPE FEAR PUBLIC UTILITY AUTHORITY, 235 GOVERNMENT CENTER DRIVE, WILMINGTON, NC 28403, OFFICE: (910)332-6560	DETAIL NO: W-8
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/20 / CFPUA REV. No: 2	Stewardship. Sustainability. Service.	SHEET NO: -



NOTES

1. JOINT RESTRAINT SYSTEMS SHALL BE WEDGE ACTION STYLE FOR DI.
2. WHEN HYDRANT LEGS REQUIRE FULL LENGTH PIPE SECTIONS, OVER BELL RESTRAINT SYSTEM SHALL HAVE 316 STAINLESS STEEL HARNESS AND FASTENERS.
3. CONTINUOUS 316 STAINLESS STEEL RODS (TEE TO VALVE AND VALVE TO HYDRANT) MAY BE USED WITH COR–BLUE MJ T–BOLT AND GASKET KITS, AS AN ALTERNATIVE.
4. HYDRANT AND VALVE SHALL BE PLACED OUTSIDE DITCH LIMITS.
5. WEEP HOLES OPEN AND UNBLOCKED TO DRAIN.
6. MJ TEE SHALL BE RESTRAINED ON EACH SIDE OF MAIN PLUS MAIN VALVES, FITTING, OR JOINTS WITHIN 10–FEET OF MJ TEE.
7. TRACING WIRE SHALL EXTEND ALONG HYDRANT LATERAL AND UP TO FINISHED GRADE WITH 2–FEET EXTENDED ABOVE THE BREAK RING OF HYDRANT.

DETAIL: FIRE HYDRANT ASSEMBLY	CAPE FEAR PUBLIC UTILITY AUTHORITY, 235 GOVERNMENT CENTER DRIVE, WILMINGTON, NC 28403, OFFICE: (910)332-6560	DETAIL NO: W-9
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/20 / CFPUA REV. No: 2	Stewardship. Sustainability. Service.	SHEET NO: -

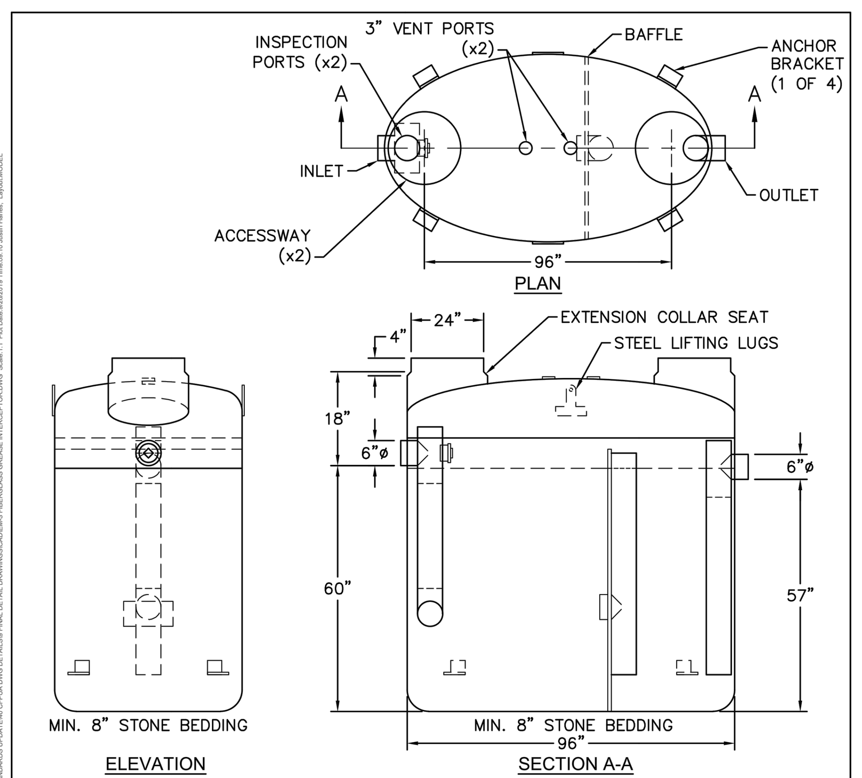


NOTES:

1. MUST BE MIN. 36" AWAY FROM ANY ELECTRICAL PANEL.
2. VALVE REQUIRED DOWNSTREAM OF BACKFLOW ASSEMBLY.
3. VERTICAL INSTALLATION SHALL BE DESIGNED AND SUBMITTED TO CFPUA EMD FOR APPROVAL.
4. LOCATE AS NEAR TO RIGHT–OF–WAY AS POSSIBLE.
5. MUST COMPLETE CFPUA'S BACKFLOW INSTALLATION FORM. CONTACT COMMUNITY COMPLIANCE AT 910–332–6558 OR COMMUNITY.COMPLIANCE@CFPUA.ORG.
6. ONLY IN–LINE TESTABLE ASSEMBLIES APPROVED BY THE USC FOUNDATION FOR CROSS CONNECTION CONTROL OR ASSE SHALL BE ACCEPTED.

OUTDOOR HORIZONTAL INSTALLATION

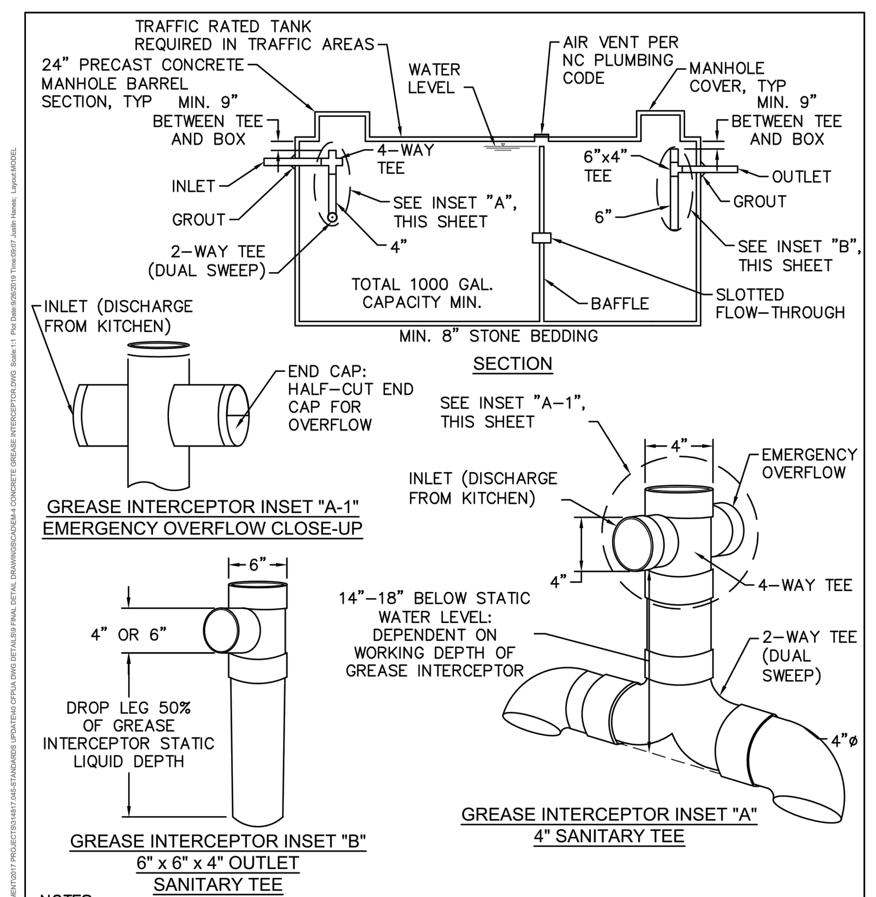
DETAIL: REDUCED PRESSURE PRINCIPLE ASSEMBLY	CAPE FEAR PUBLIC UTILITY AUTHORITY, 235 GOVERNMENT CENTER DRIVE, WILMINGTON, NC 28403, OFFICE: (910)332-6560	DETAIL NO: EM-1
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/20 / CFPUA REV. No: 2	Stewardship. Sustainability. Service.	SHEET NO: -



NOTES:

1. FOR GRAVITY APPLICATIONS ONLY.
2. MIN. THICKNESS: 1/4" WALL AND 3/8" TOP AND BOTTOM BOWLS.
3. STANDARD PIPE STUBS ARE SOCKET SDR 35 PVC.
4. EXTENSION COLLARS SHALL BE CAULKED WITH SIKAFLEX OR EQUIVALENT FOR WATERTIGHT SEAL.
5. FOLLOW MANUFACTURE'S SPECS FOR TRAFFIC OR PEDESTRIAN LOADING.
6. MUST COMPLETE CFPUA'S APPLICATION FOR AUTHORIZATION TO CONSTRUCT. CONTACT COMMUNITY COMPLIANCE AT 910–332–6558 OR COMMUNITY.COMPLIANCE@CFPUA.ORG.
7. SHALL BE SIZED TO ACHIEVE A MINIMUM 20 MINUTE DETENTION TIME.
8. ALL FIXTURES AND DRAINS RECEIVING GREASE LADEN SOURCES FROM KITCHEN OR FOOD PREPARATION WASTE WATER SHALL PASS THROUGH THE GREASE INTERCEPTOR.

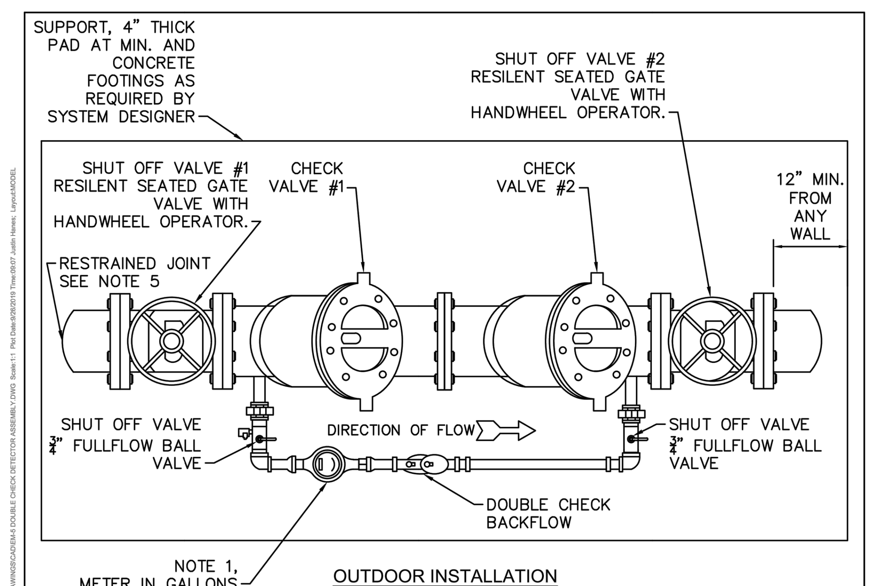
DETAIL: FIBERGLASS GREASE INTERCEPTOR	CAPE FEAR PUBLIC UTILITY AUTHORITY, 235 GOVERNMENT CENTER DRIVE, WILMINGTON, NC 28403, OFFICE: (910)332-6560	DETAIL NO: EM-3
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/20 / CFPUA REV. No: 2	Stewardship. Sustainability. Service.	SHEET NO: -



NOTES:

1. MUST COMPLETE CFPUA'S APPLICATION FOR AUTHORIZATION TO CONSTRUCT. CONTACT COMMUNITY COMPLIANCE AT 910–332–6558 OR COMMUNITY.COMPLIANCE@CFPUA.ORG.
2. SHALL BE SIZED TO ACHIEVE A MINIMUM 20 MINUTE DETENTION TIME.
3. ALL FIXTURES AND DRAINS RECEIVING GREASE LADEN SOURCES FROM KITCHEN OR FOOD PREPARATION WASTE WATER SHALL PASS THROUGH THE GREASE INTERCEPTOR.

DETAIL: CONCRETE GREASE INTERCEPTOR	CAPE FEAR PUBLIC UTILITY AUTHORITY, 235 GOVERNMENT CENTER DRIVE, WILMINGTON, NC 28403, OFFICE: (910)332-6560	DETAIL NO: EM-4
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/20 / CFPUA REV. No: 2	Stewardship. Sustainability. Service.	SHEET NO: -



NOTES:

1. FIRE SERVICE BACKFLOW ASSEMBLIES MUST BE CFPUA APPROVED.
2. ABOVE GROUND DOUBLE CHECK DETECTOR ASSEMBLIES (DCDA) PER CFPUA STANDARDS.
3. 4"–10" DCDA SHALL BE SUPPORTED WITH ADEQUATE SUPPORT PEDESTAL(S).
4. OUTDOOR INSTALLATION SHALL HAVE A PROTECTIVE ENCLOSURE PER CFPUA STANDARDS.
5. MAIN LINE 3" BRASS, K–COPPER OR GALVANIZED PIPE, 4" TO 10" DIP. RESTRAINED JOINTS SHALL BE FLANGED OR APPROVED EQUAL.
6. CFPUA APPROVED 3" – 10" DCDA INCLUDES SHUT OFF VALVES #1 AND #2. AS PART OF THE ASSEMBLY. NO SUBSTITUTIONS SHALL BE PERMITTED.
7. TEST COCK #1 SHALL BE UPSTREAM OF SHUT OFF VALVE #1 AND IS PART OF THE APPROVED ASSEMBLY.
8. MUST COMPLETE CFPUA'S BACKFLOW INSTALLATION FORM. CONTACT COMMUNITY COMPLIANCE AT 910–332–6558 OR EMAIL COMMUNITY.COMPLIANCE@CFPUA.ORG.
9. ONLY IN–LINE TESTABLE ASSEMBLIES APPROVED BY THE USC FOUNDATION FOR CROSS CONNECTION CONTROL OR ASSE SHALL BE ACCEPTED.

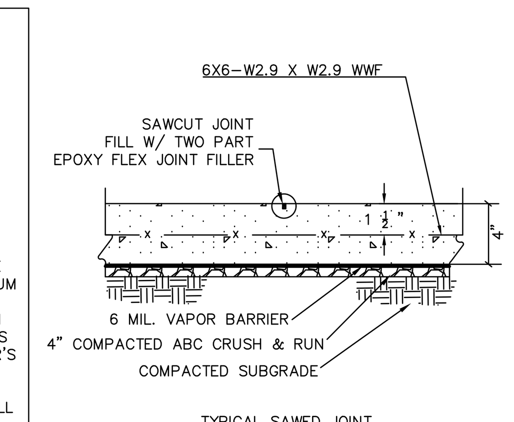
DETAIL: FIRE SERVICE DOUBLE CHECK DETECTOR ASSEMBLY	CAPE FEAR PUBLIC UTILITY AUTHORITY, 235 GOVERNMENT CENTER DRIVE, WILMINGTON, NC 28403, OFFICE: (910)332-6560	DETAIL NO: EM-5
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/20 / CFPUA REV. No: 2	Stewardship. Sustainability. Service.	SHEET NO: -

SLAB ON GRADE NOTES:

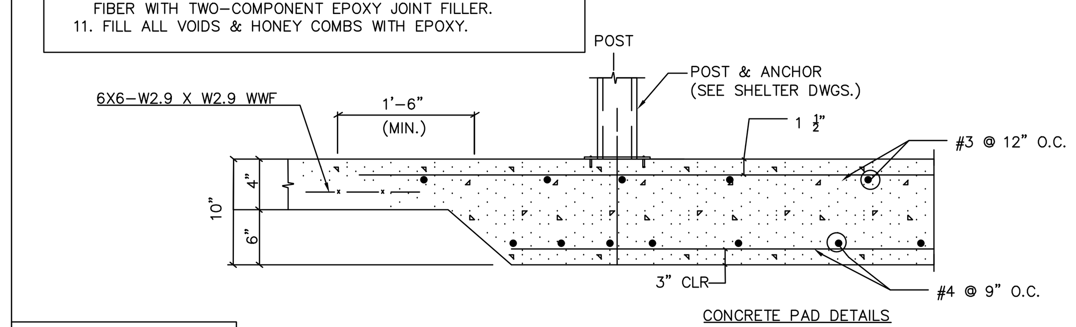
1. PROVIDE SAWED JOINTS AT 15'–0" ON CENTER (MAX).
2. SAWED JOINT PATTERN TO BE LESS THAN 2:1 IN ANY DIRECTION.

CONCRETE NOTES:

1. CONCRETE DESIGN IS BASED ON THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI–318–05) AND ALL SUBSEQUENT SUPPLEMENTS.
2. CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS: 3500 PSI NORMAL WT.
3. PORTLAND CEMENT: ASTM C–150 TYPE I, 1A OR III.
4. WELDED WIRE MESH: ASTM A185
5. ALL SLAB ON GRADE CONCRETE SHALL BE CURED BY THE USE OF AN APPROVED WE CURING PROCESS FOR A MINIMUM OF 7 DAYS AFTER PLACEMENT IN ACCORDANCE WITH ACI 308. A CURING COMPOUND MAY BE USED IN CONJUNCTION WITH THE WET CURE PROCESS PROVIDED THAT COMPOUNDS ARE PLACED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND ARE COMPATIBLE WITH ALL CONCRETE ADDITIVES.
6. ALL ABOVE GRADE CONCRETE EXPOSED TO WEATHER SHALL HAVE ANTI–CORROSIVE INHIBITORS AS MANUFACTURED BY W.R. GRACE CONTAINED IN THE MIX PER SPECIFICATIONS BY MANUFACTURER.
7. PROVIDE AIR ENTRAINMENT OF 4 TO 6 PERCENT.
8. CONCRETE FINISH: BROOM FINISH
9. EXPANSION JOINT FILLER: ASTM D1751 ASPHALT–SATURATED FIBER WITH TWO–COMPONENT EPOXY JOINT FILLER.
11. FILL ALL VOIDS & HONEY COMBS WITH EPOXY.



TYPICAL SAWED JOINT



CONCRETE PAD DETAILS

SCALE: N.T.S.

BUS STOP PAD

NOT TO SCALE

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www.isdesignpa.com

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email: bdm@thesitegroup.net

THE SITE GROUP, PLLC. LANDSCAPE ARCHITECTURAL CORPORATION CERT. NO. 353 NORTH CAROLINA RALEIGH, N.C.

Project

THE HEALING PLACE OF NEW HANOVER COUNTY

1000 MEDICAL CENTER DR
WILMINGTON, NC

Client

NEW HANOVER COUNTY

Key Plan

Professional Seals

NORTH CAROLINA PROFESSIONAL SEAL 18303 ENGINEER EDWIN F. SCONFIENZA

No.	Description	Date
1	PLAN REVIEW DOCUMENTS	07/01/2020
2	PLAN REVIEW DOCUMENTS	09/14/2020

Project Code: HTW

Sheet Title

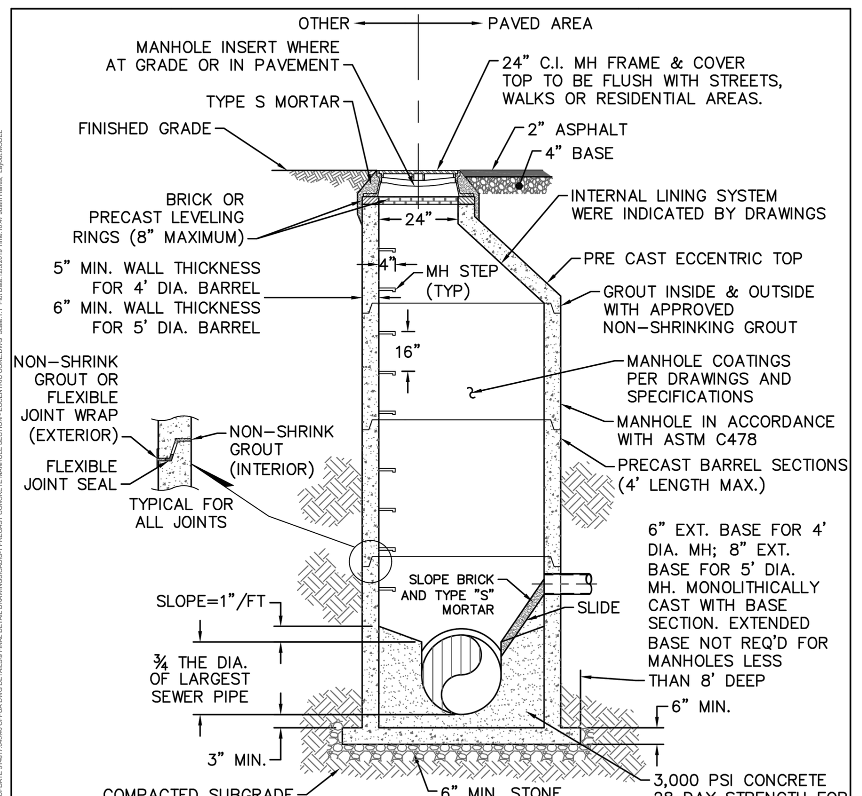
SITE DETAILS

Original drawing is 42 x 30. Do not scale contents of this drawing

Sheet Number

SITE 603

H:\The SITE Group\Projects\HTW\Dwg\HTW-SITEBASE.dwg, SITE 603, 9/16/2020 3:21:47 PM
9/16/2020 3:21 PM H:\The SITE Group\Projects\HTW\Dwg\HTW-SITEBASE.dwg

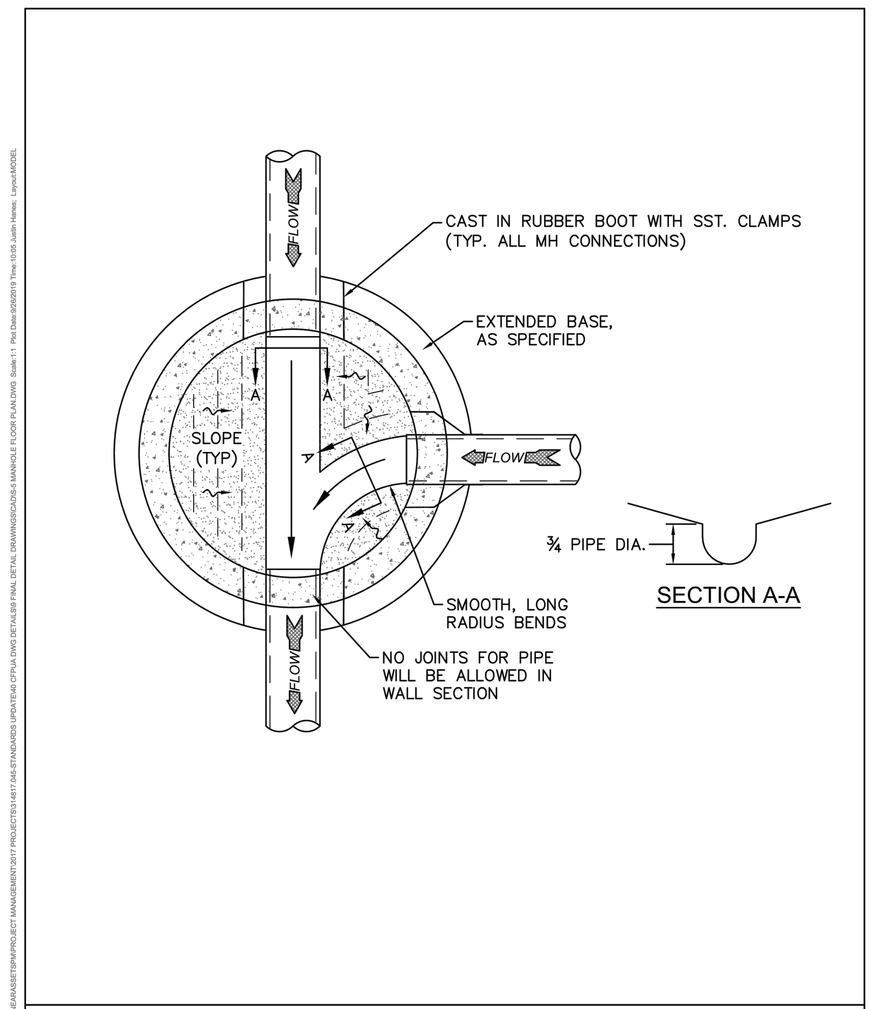


NOTES:

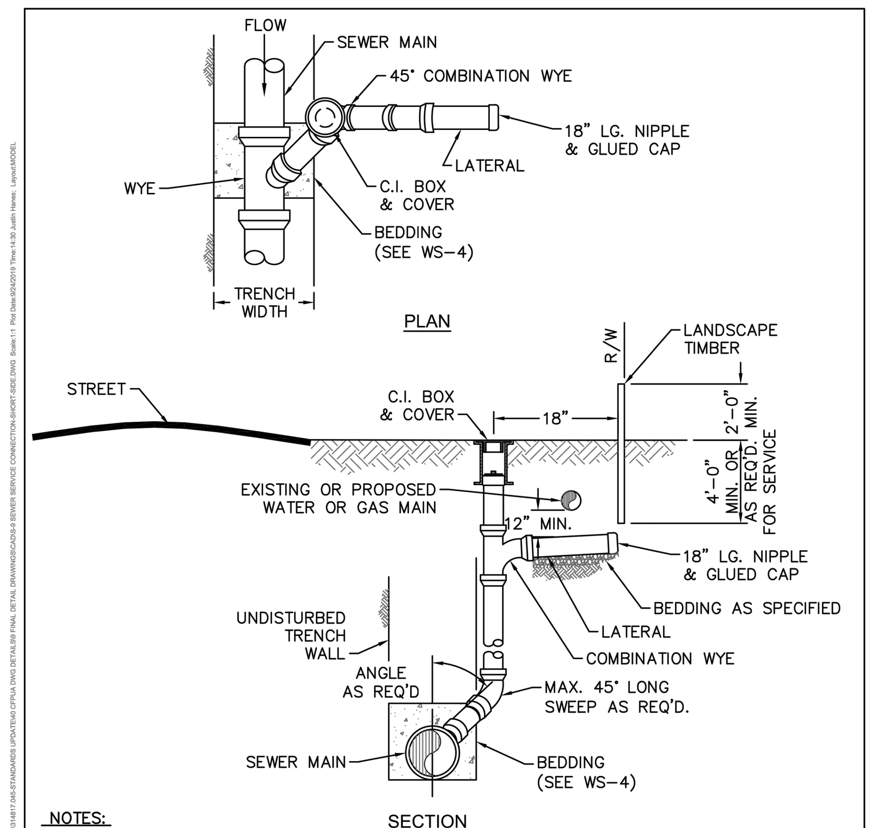
1. FOR MANHOLES UP TO 12 FEET IN DEPTH MINIMUM BARREL DIAMETER SHALL BE 4 FEET. MANHOLES GREATER THAN 12 FEET IN DEPTH SHALL BE A MINIMUM OF 5 FEET IN DIAMETER.
2. PROVIDE A MINIMUM DISTANCE OF SIX (6) INCHES BETWEEN EDGE OF MANHOLE CORE HOLES AND MANHOLE BARREL JOINTS. PROVIDE A MINIMUM OF SIX (6) INCHES BETWEEN EDGES OF CORE HOLES. CORING THE MANHOLE CONE IS NOT ALLOWED.
3. ALL MANHOLE MAIN LINE AND SERVICE PIPING TO BE INSTALLED AT A MINIMUM OF ONE FOOT TO CROWN OF THE LARGEST DIAMETER PIPE.

FOR LESS THAN 30" INSIDE DROP

DETAIL: PRECAST CONCRETE MANHOLE SECTION - ECCENTRIC CONE	CAPE FEAR PUBLIC UTILITY AUTHORITY, 235 GOVERNMENT CENTER DRIVE, WILMINGTON, NC 28403, OFFICE: (910)332-6560	DETAIL NO: S-1
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/20 / CFPUA REV. No: 2	Stewardship. Sustainability. Service.	SHEET NO: -



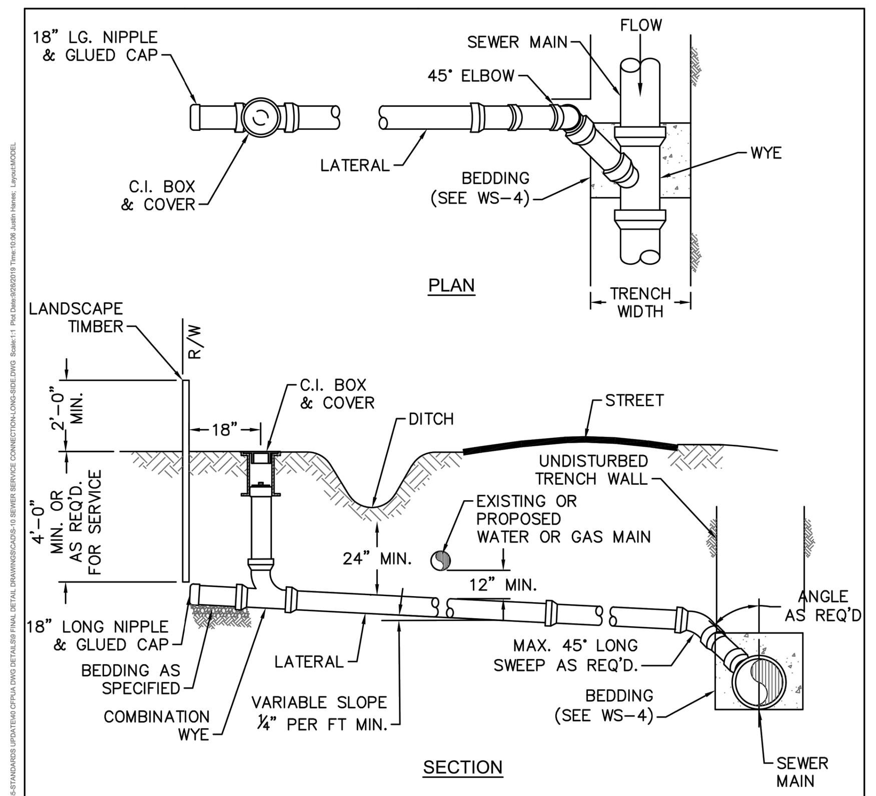
DETAIL: MANHOLE FLOOR PLAN	CAPE FEAR PUBLIC UTILITY AUTHORITY, 235 GOVERNMENT CENTER DRIVE, WILMINGTON, NC 28403, OFFICE: (910)332-6560	DETAIL NO: S-5
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/20 / CFPUA REV. No: 2	Stewardship. Sustainability. Service.	SHEET NO: -



NOTES:

1. SEWER SERVICES SHALL BE PERPENDICULAR TO MAIN. SEWER SERVICES IN CUL-DE-SACS ARE REQUIRED TO BE PERPENDICULAR, OR MUST ORIGINATE IN END OF LINE MANHOLE AND TERMINATE AT RIGHT-OF-WAY LINE.
2. ALL SERVICES CONNECTING INTO DUCTILE IRON MAINS SHALL BE CONSTRUCTED OF DIP, WITH PROTECTIVE LINING.
3. CLEANOUTS SHALL BE LOCATED A MINIMUM OF 12 FEET FROM ALL PROPERTY CORNERS.
4. FOR PRIVATE 8" SERVICES, MANHOLES ARE REQUIRED FOR CONNECTION TO MAIN.
5. A MINIMUM PIPING LENGTH OF 1' 6" SHALL BE USED BETWEEN FITTINGS.

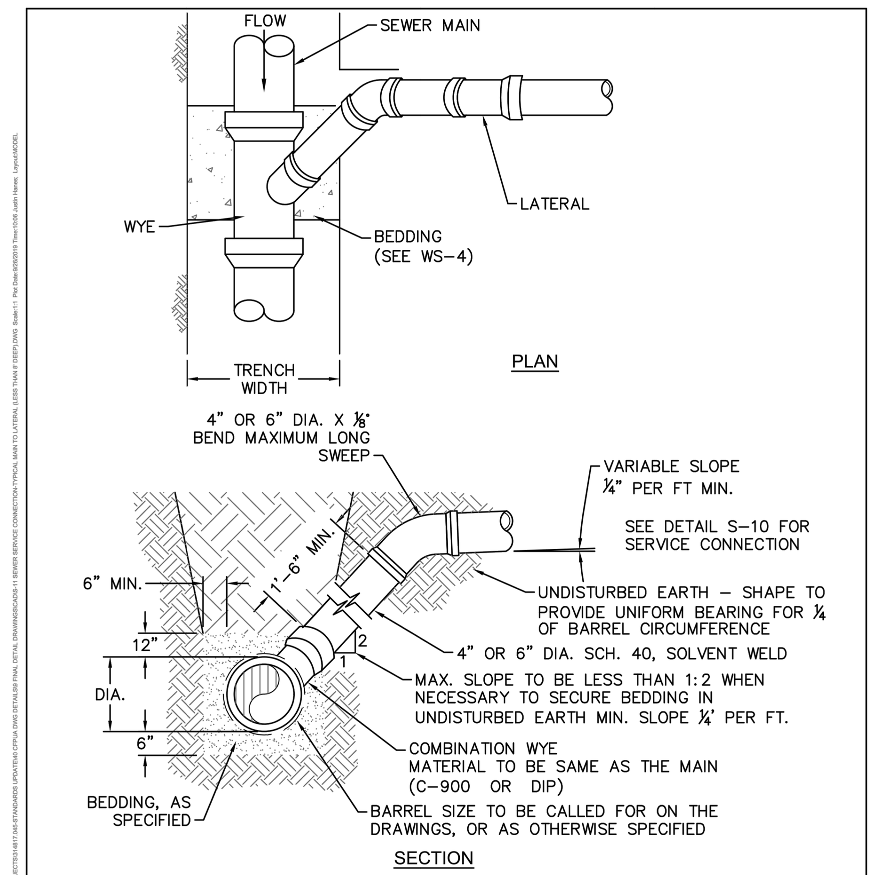
DETAIL: SEWER SERVICE CONNECTION - SHORT-SIDE	CAPE FEAR PUBLIC UTILITY AUTHORITY, 235 GOVERNMENT CENTER DRIVE, WILMINGTON, NC 28403, OFFICE: (910)332-6560	DETAIL NO: S-9
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/20 / CFPUA REV. No: 2	Stewardship. Sustainability. Service.	SHEET NO: -



NOTES:

1. SEWER SERVICES SHALL BE PERPENDICULAR TO MAIN. SEWER SERVICES IN CUL-DE-SACS ARE REQUIRED TO BE PERPENDICULAR, OR MUST ORIGINATE IN END OF LINE MANHOLE AND TERMINATE AT RIGHT-OF-WAY LINE.
2. ALL SERVICES CONNECTING INTO DUCTILE IRON MAINS SHALL BE CONSTRUCTED OF DIP, WITH PROTECTIVE LINING.
3. CLEANOUTS SHALL BE LOCATED A MINIMUM OF 12 FEET FROM ALL PROPERTY CORNERS.
4. MINIMUM 1'-6" NIPPLE SPACING BETWEEN FITTINGS.
5. FOR PRIVATE 8" SERVICES, MANHOLES ARE REQUIRED FOR CONNECTION TO MAIN.

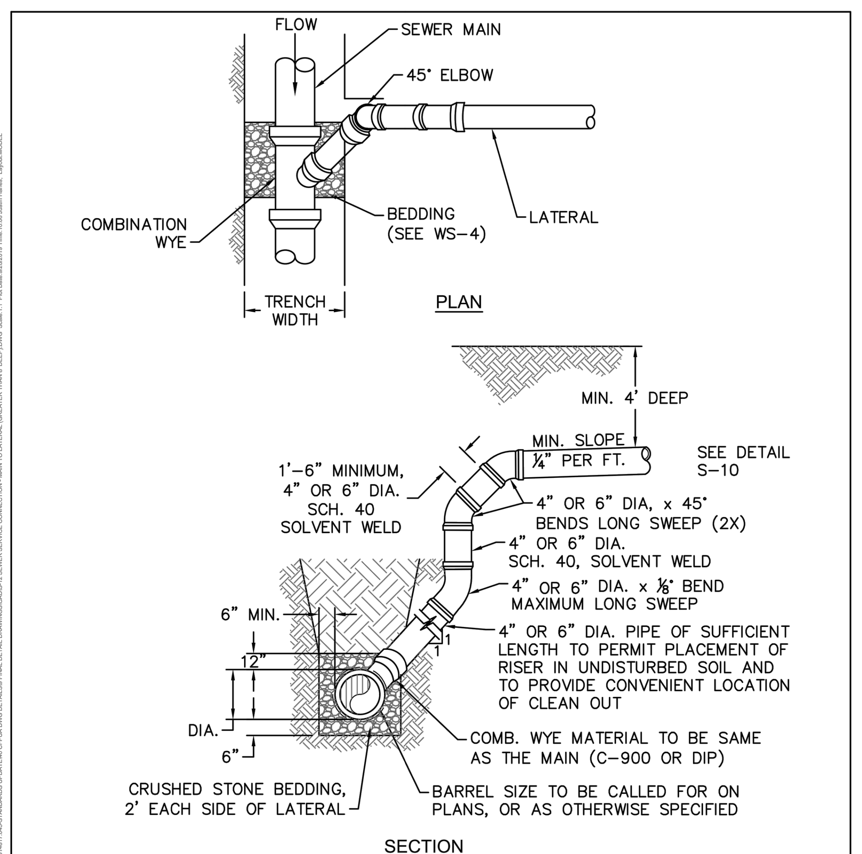
DETAIL: SEWER SERVICE CONNECTION - LONG-SIDE	CAPE FEAR PUBLIC UTILITY AUTHORITY, 235 GOVERNMENT CENTER DRIVE, WILMINGTON, NC 28403, OFFICE: (910)332-6560	DETAIL NO: S-10
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/20 / CFPUA REV. No: 2	Stewardship. Sustainability. Service.	SHEET NO: -



NOTES:

1. FOR PRIVATE 8" SERVICES, MANHOLES ARE REQUIRED FOR CONNECTION TO SYSTEM AND AT THE PROPERTY LINE, WITH REQUIRED EASEMENT.
2. ALL SERVICES CONNECTING INTO DUCTILE IRON MAINS SHALL BE CONSTRUCTED OF DIP, WITH PROTECTIVE LINING.

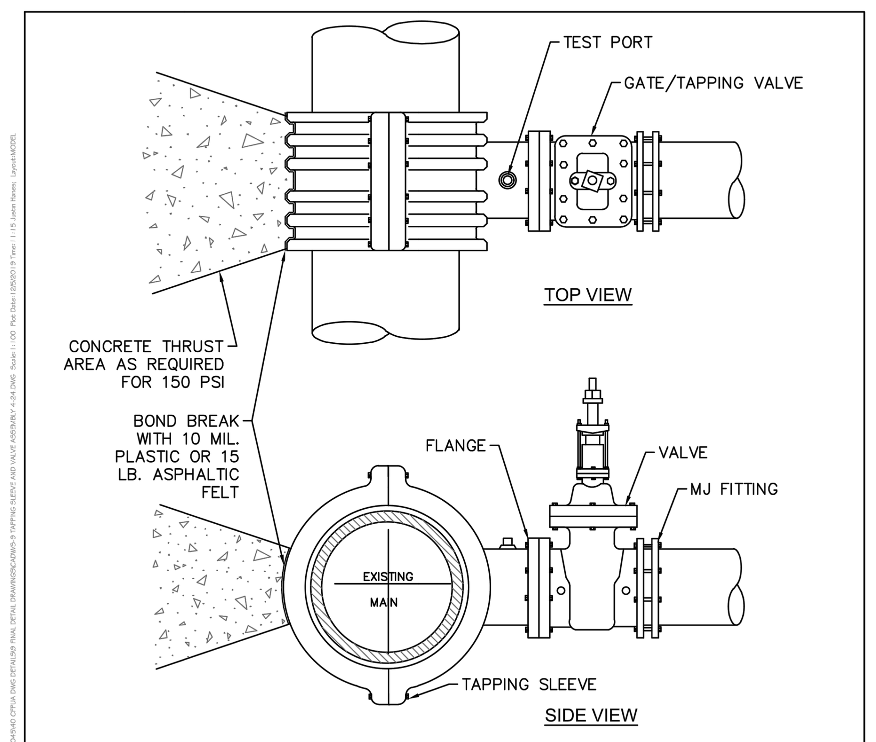
DETAIL: SEWER SERVICE CONNECTION - MAIN to LATERAL (LESS THAN 8' DEEP)	CAPE FEAR PUBLIC UTILITY AUTHORITY, 235 GOVERNMENT CENTER DRIVE, WILMINGTON, NC 28403, OFFICE: (910)332-6560	DETAIL NO: S-11
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/20 / CFPUA REV. No: 2	Stewardship. Sustainability. Service.	SHEET NO: -



NOTES:

1. SPECIAL CARE SHALL BE TAKEN DURING BACKFILL OPERATIONS. THE RISER SHALL BE PLUMB AND TRUE AT ALL TIMES, AND REST ON FIRM, STABLE FOUNDATION.
2. FOR PRIVATE 8" SERVICES, MANHOLES ARE REQUIRED FOR CONNECTION TO SYSTEM AND AT THE PROPERTY LINE, WITH REQUIRED EASEMENT.
3. ALL SERVICES CONNECTING INTO DUCTILE IRON MAINS SHALL BE CONSTRUCTED OF DIP, WITH PROTECTIVE LINING.
4. 1'-6" MINIMUM NIPPLE SPACING BETWEEN FITTINGS.

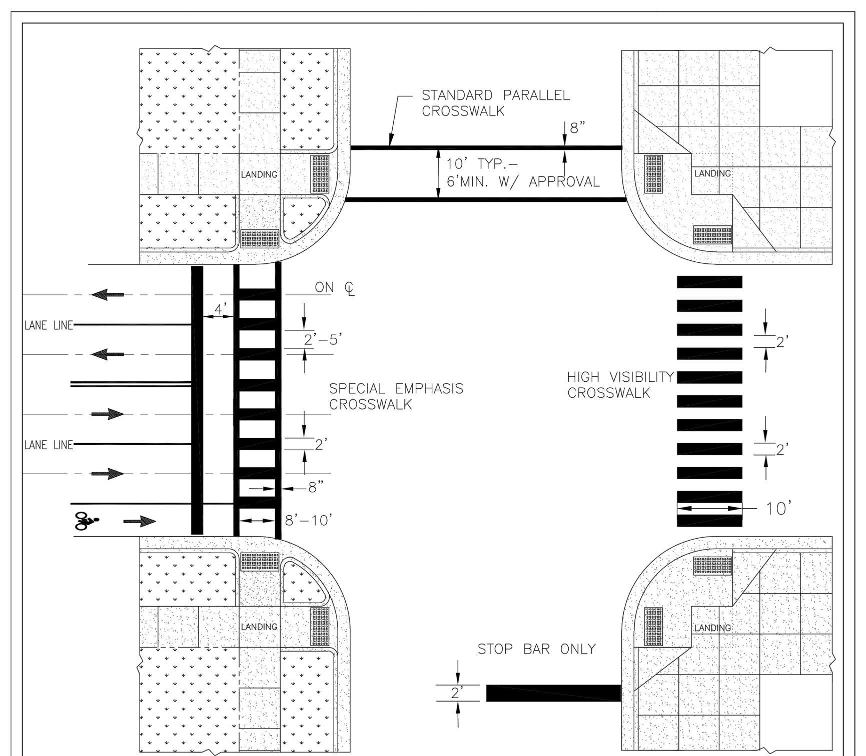
DETAIL: SEWER SERVICE CONNECTION - MAIN TO LATERAL (GREATER THAN 8' DEEP)	CAPE FEAR PUBLIC UTILITY AUTHORITY, 235 GOVERNMENT CENTER DRIVE, WILMINGTON, NC 28403, OFFICE: (910)332-6560	DETAIL NO: S-12
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/20 / CFPUA REV. No: 2	Stewardship. Sustainability. Service.	SHEET NO: -



NOTES:

1. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT FITTINGS.
2. PIPE & FITTING TO BE WRAPPED IN 10 MIL. PLASTIC OR 15 LB. ASPHALTIC FELT PRIOR TO THRUST BLOCK BEING POURED.
3. TEST PRESSURE SHALL NOT BE APPLIED FOR A MINIMUM OF 7 DAYS AFTER THRUST BLOCK PLACEMENT.
4. BRANCH SHALL NOT EQUAL RUN DIAMETER UNLESS APPROVED BY CFPUA ENGINEERING.

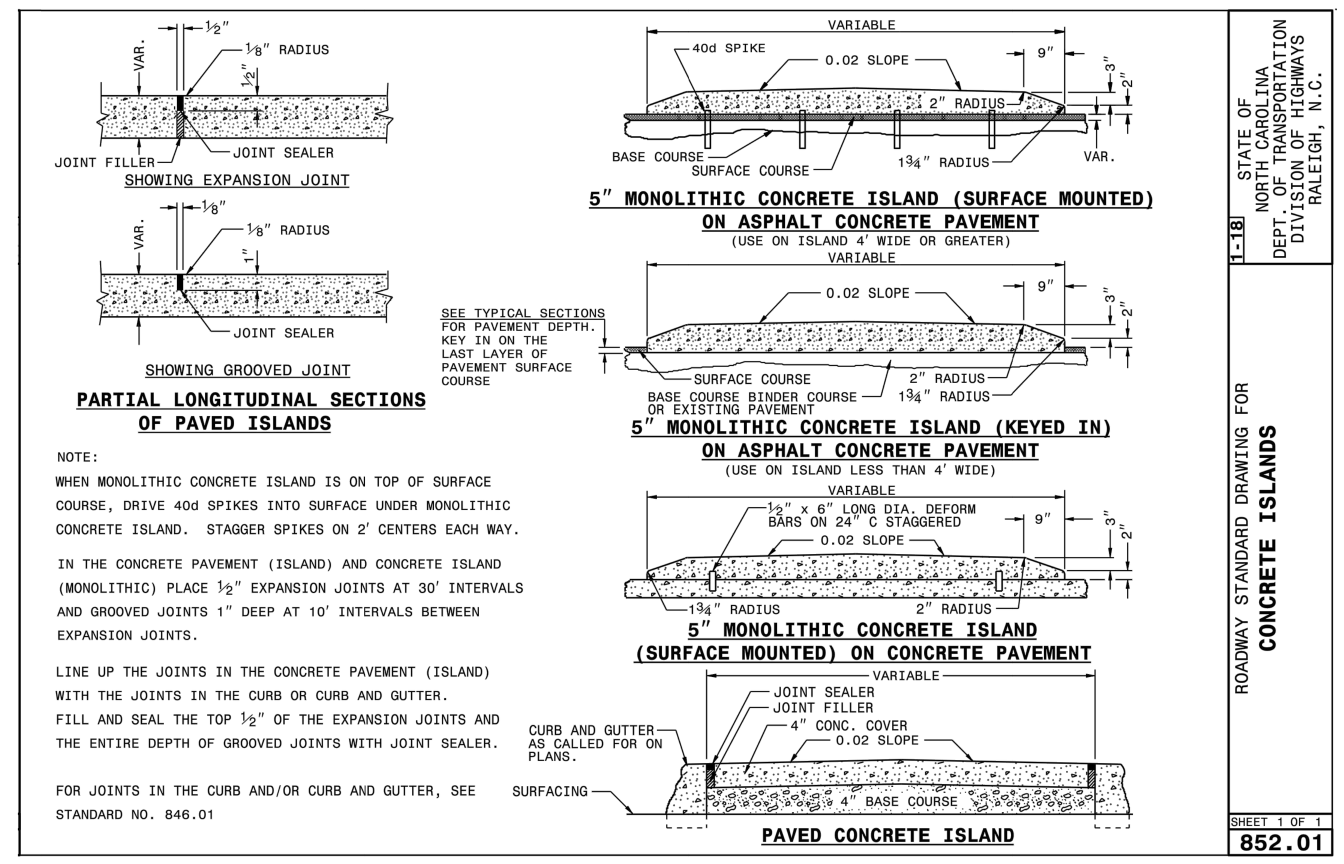
DETAIL: TAPPING SLEEVE AND VALVE ASSEMBLY (4"-24")	CAPE FEAR PUBLIC UTILITY AUTHORITY, 235 GOVERNMENT CENTER DRIVE, WILMINGTON, NC 28403, OFFICE: (910)332-6560	DETAIL NO: WS-9
SCALE: NOT TO SCALE / CFPUA DETAIL DATE: 01/01/20 / CFPUA REV. No: 2	Stewardship. Sustainability. Service.	SHEET NO: -



1–TYPICAL CROSSWALK DIMENSIONS ARE PROVIDED FOR REFERENCE. ALL APPLICATIONS SHALL CONSIDER PEDESTRIAN, BICYCLE AND TRAFFIC CONDITIONS AND ARE SUBJECT TO ADA GUIDELINES AND APPLICABLE SPECIFICATIONS. LAYOUTS SHALL BE DIRECTED BY THE ENGINEER.

2–GENERALLY, STANDARD PARALLEL CROSSWALKS TO BE USED AT SIGNALIZED INTERSECTIONS OR WHERE CROSSWALK TRAFFIC OR CONFLICT POINTS ARE AVERAGE. SPECIAL EMPHASIS CROSSWALKS AND HIGH VISIBILITY CROSSWALKS ARE NEEDED AT BUSY SIGNALIZED INTERSECTIONS AND WHERE BICYCLE AND PEDESTRIAN TRAFFIC REQUIRES INCREASED VISIBILITY.

STANDARD DETAIL		
DATE: FEBRUARY, 2012 / DRAWN BY: JSR / CHECKED BY: BDB, P.E. / SCALE: NOT TO SCALE	CROSSWALK PAVEMENT MARKINGS	CITY OF WILMINGTON, NORTH CAROLINA — CITY OF WILMINGTON ENGINEERING, PO BOX 1810, WILMINGTON, NC 28402, (910) 341-7807 — SD 11-11



NOTE:

WHEN MONOLITHIC CONCRETE ISLAND IS ON TOP OF SURFACE COURSE, DRIVE 40d SPIKES INTO SURFACE UNDER MONOLITHIC CONCRETE ISLAND. STAGGER SPIKES ON 2' CENTERS EACH WAY.

IN THE CONCRETE PAVEMENT (ISLAND) AND CONCRETE ISLAND (MONOLITHIC) PLACE ½" EXPANSION JOINTS AT 30' INTERVALS AND GROOVED JOINTS 1" DEEP AT 10' INTERVALS BETWEEN EXPANSION JOINTS.

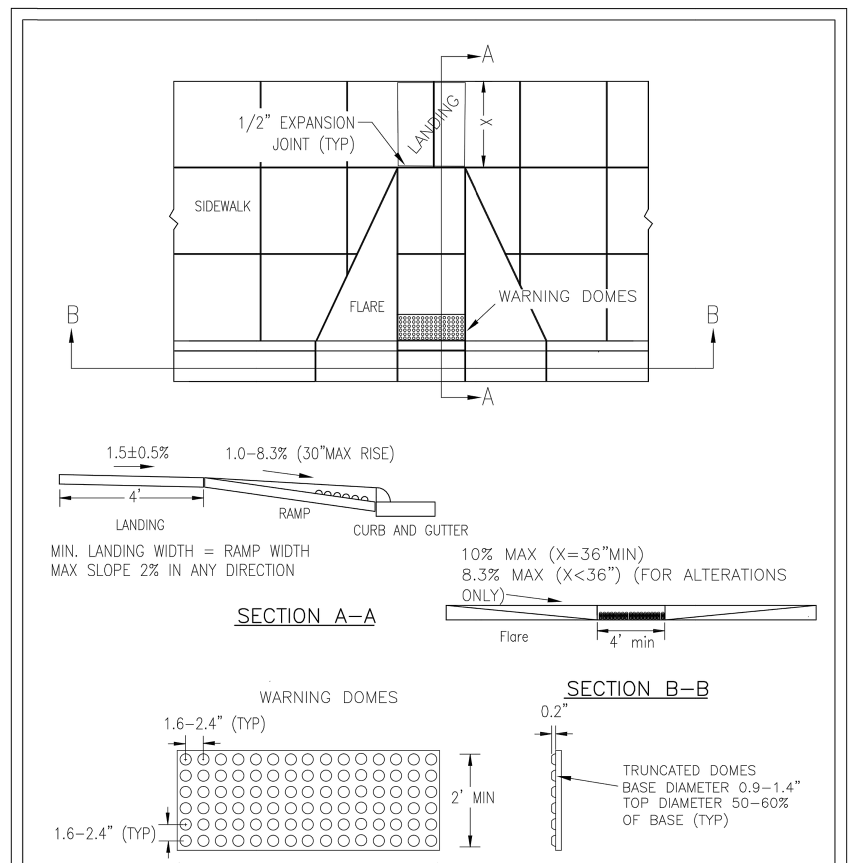
LINE UP THE JOINTS IN THE CONCRETE PAVEMENT (ISLAND) WITH THE JOINTS IN THE CURB OR CURB AND GUTTER. FILL AND SEAL THE TOP ½" OF THE EXPANSION JOINTS AND THE ENTIRE DEPTH OF GROOVED JOINTS WITH JOINT SEALER.

FOR JOINTS IN THE CURB AND/OR CURB AND GUTTER, SEE STANDARD NO. 846.01

STATE OF NORTH CAROLINA, DEPT. OF TRANSPORTATION, DIVISION OF HIGHWAYS, RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR CONCRETE ISLANDS

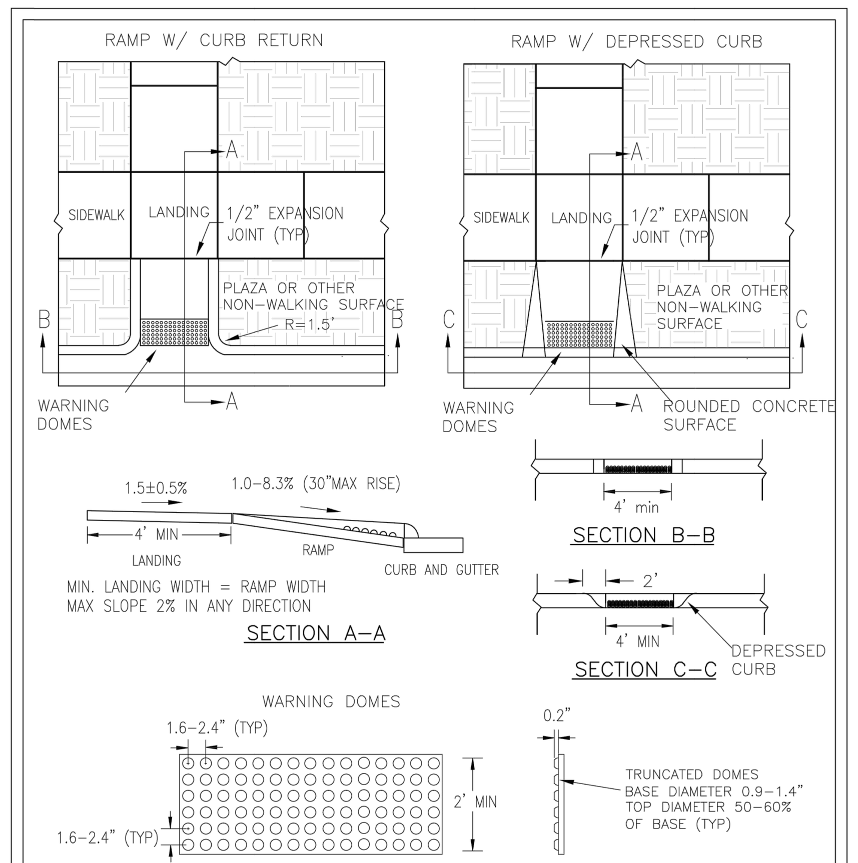
SHEET 1 OF 1 — 852.01



WARNING DOME NOTES:

1. USE CONTRASTING COLORS, RED OR BLACK ON WHITE PAVEMENT.
2. USE CAST IN PLACE PAVERS FOR NEW CONSTRUCTION.
3. RUBBER MATS ARE PERMITTED FOR RETROFITS.
4. LANDING AND RAMP WIDTH MAY BE REDUCED TO 3' WHERE SPACE IS LIMITED AND DESIGN IS APPROVED BY THE CITY ENGINEER.

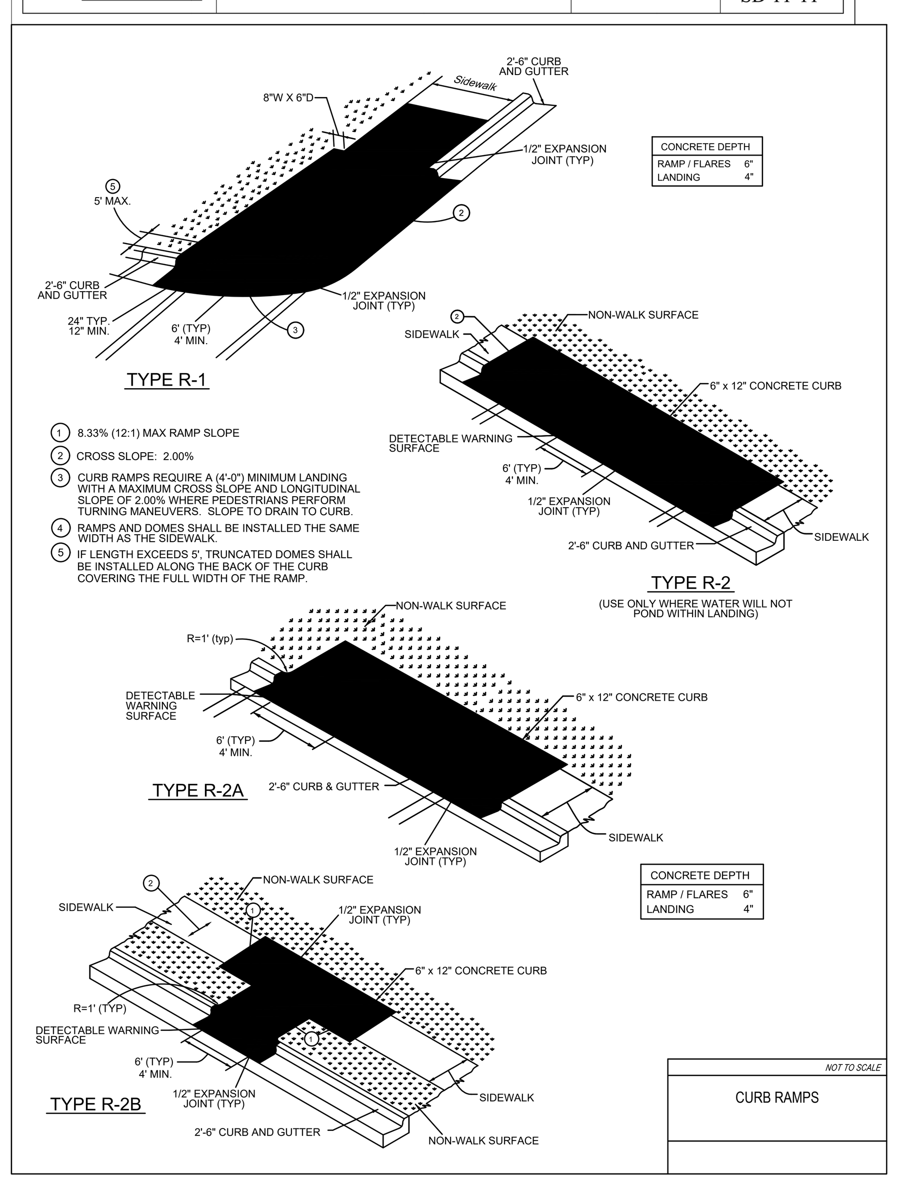
STANDARD DETAIL		
DATE: DECEMBER, 2010 / DRAWN: PB/JSR / CHECKED: DEC / SCALE: NOT TO SCALE	PERPENDICULAR CURB RAMP ADJACENT TO WALKING SURFACE	CITY OF WILMINGTON, NORTH CAROLINA — CITY OF WILMINGTON ENGINEERING, PO BOX 1810, WILMINGTON N.C. 28402, (910) 341-7807 — SD 3-07



WARNING DOME NOTES:

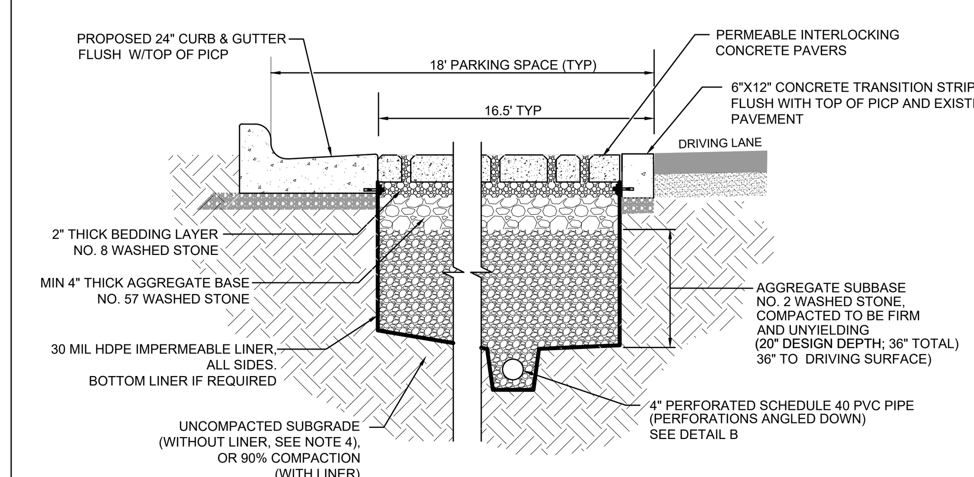
1. USE CONTRASTING COLORS, RED OR BLACK ON WHITE PAVEMENT.
2. USE CAST IN PLACE PAVERS FOR NEW CONSTRUCTION.
3. RUBBER MATS ARE PERMITTED FOR RETROFITS.
4. LANDING AND RAMP WIDTH MAY BE REDUCED TO 3' WHERE SPACE IS LIMITED AND DESIGN IS APPROVED BY THE CITY ENGINEER.

STANDARD DETAIL		
DATE: DECEMBER, 2010 / DRAWN: PB/JSR / CHECKED: DEC / SCALE: NOT TO SCALE	PERPENDICULAR CURB RAMP ADJACENT TO PLAZA	CITY OF WILMINGTON, NORTH CAROLINA — CITY OF WILMINGTON ENGINEERING, PO BOX 1810, WILMINGTON N.C. 28402, (910) 341-7807 — SD3-08



CURB RAMPS

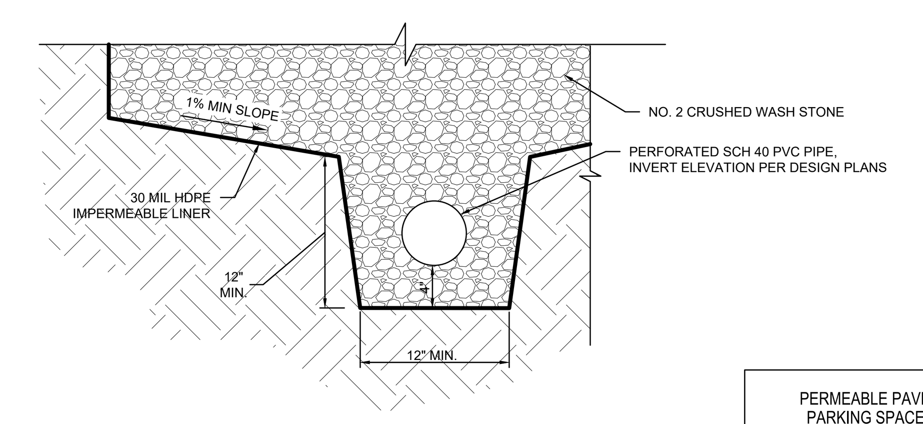
NOT TO SCALE



SECTION VIEW

NOTES:

1. ALL PICP SHALL CONFORM TO ASTM C936 AND ADA DESIGN GUIDELINES.
2. SLOPE OF SOIL SUBGRADE SHALL BE 0.5% OR LESS. MAXIMUM PICP SURFACE SLOPE SHALL BE 6%.
3. THE SEASONAL HIGH WATER TABLE SHALL HAVE A MINIMUM 2 FT SEPARATION FROM THE BOTTOM OF THE SUBBASE AGGREGATE STORAGE LAYER.
4. IN HSG B, C, OR D SOILS, THE SURFACE OF THE SUBGRADE UNDER INFILTRATING PICP SYSTEMS SHOULD BE SCARIFIED, RIPPED, OR TRENCHED IMMEDIATELY PRIOR TO AGGREGATE SUBBASE PLACEMENT TO MAINTAIN PRE-CONSTRUCTION SUBGRADE INFILTRATION RATE.
5. THE INCLUSION OF AN UNDERDRAIN SYSTEM WITH IMPERMEABLE LINER (INCLUDING BOTTOM LAYER) IS DEPENDENT UPON THE RESULTS OF THE GEOTECHNICAL INVESTIGATION.
6. ELEVATION GRADIENT BETWEEN THE CONCRETE GUTTER AND ADJACENT PICP SHALL NOT EXCEED 1/4"; OTHERWISE, PROVIDE 1:2 BEVEL ON EDGE OF GUTTER.
7. OPEN VOID FILL MEDIA AROUND PICP SHALL BE NO. 8, NO. 9, OR NO. 89 WASHED DRAINAGE STONE DEPENDING ON JOINT SIZE.
8. BOTH PIPE PENETRATIONS AND ATTACHMENT OF 30 MIL HDPE LINER TO CONCRETE CURBS (USING CONCRETE ANCHORS SPACED AT MAXIMUM 18" O.C. AND BATTEN STRIPS) SHALL BE DONE IN ACCORDANCE WITH ASTM 6497.
9. ALL AGGREGATE SIZED ACCORDING TO ASTM C136.
10. AASHTO LAYER COEFFICIENTS FOR OPEN-GRADED BASE AND SUBBASE SHALL RANGE BETWEEN 0.06 AND 0.10.
11. AASHTO MINIMUM LAYER COEFFICIENT OF 0.3 FOR PAVER AND BEDDING LAYERS IS RECOMMENDED.
12. LOCATE UNDERDRAIN AS SHOWN ON THE IMPROVEMENT PLANS. HORIZONTAL LOCATION MAY VARY WITHIN PAVEMENT SECTION AS LONG AS MINIMUM OFFSET DISTANCES AND BOTTOM SLOPES ARE MAINTAINED.
13. DEPTH OF PERFORATED PVC PIPE MAY BE ADJUSTED TO TIE INTO THE ADJACENT DRAINAGE INFRASTRUCTURE AS NEEDED.



DETAIL B

PERMEABLE PAVER PARKING SPACES

NO SCALE

isdesign ARCHITECTURE + INTERIORS
219 N. Boylan Avenue
Raleigh, North Carolina 27603
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email: bdm@thesitegroup.net

THE SITE GROUP, P.L.L.C. LANDSCAPE ARCHITECTURAL CORPORATION CERT. NO. 353 NORTH CAROLINA RALEIGH, N.C.

Project

THE HEALING PLACE OF NEW HANOVER COUNTY

1000 MEDICAL CENTER DR
WILMINGTON, NC

Client

NEW HANOVER COUNTY

Key Plan

Professional Seals

NORTH CAROLINA PROFESSIONAL SEAL 18303 ENGINEER EDWIN F. SCONFIENZA 09/14/20

N

No.	Description	Date
1	PLAN REVIEW DOCUMENTS	07/01/2020
2	PLAN REVIEW DOCUMENTS	09/14/2020

Project Code: HTW

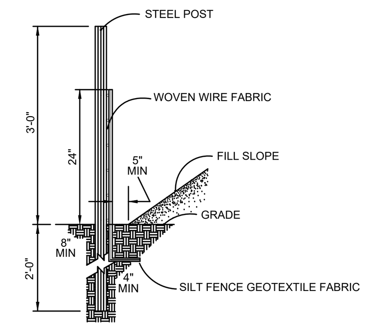
Sheet Title

SITE DETAILS

Original drawing is 42 x 30. Do not scale contents of this drawing

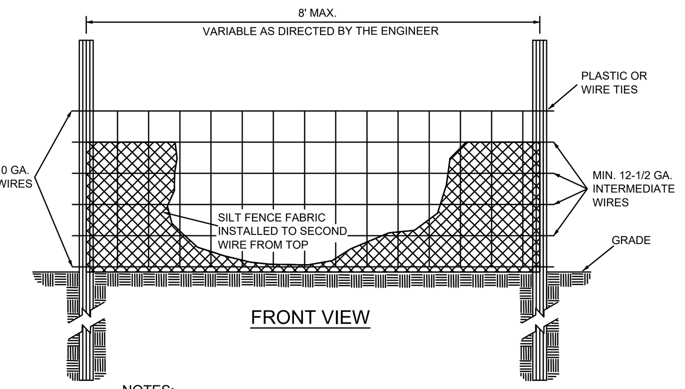
Sheet Number

SITE 604



MAINTENANCE: CLEAN OUT AT 50% CAPACITY
LIFE OF FENCING: 6-9 MONTHS

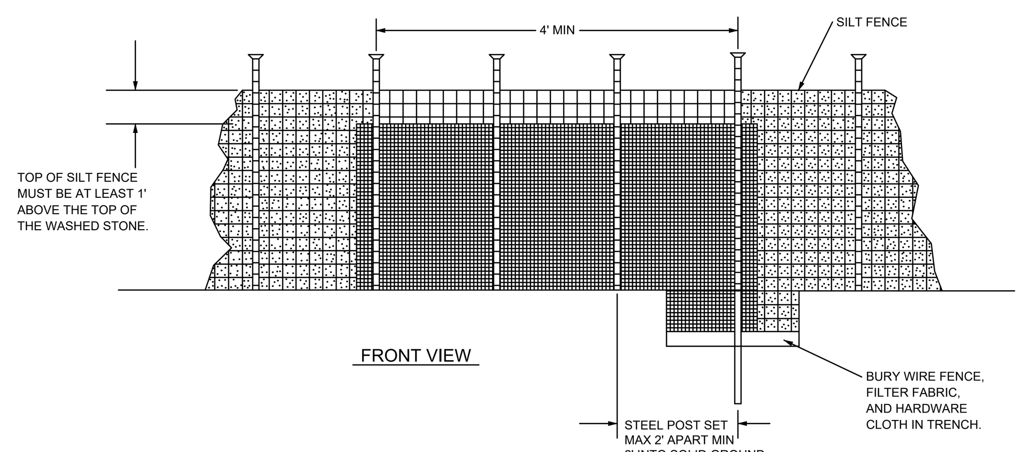
SIDE VIEW



FRONT VIEW

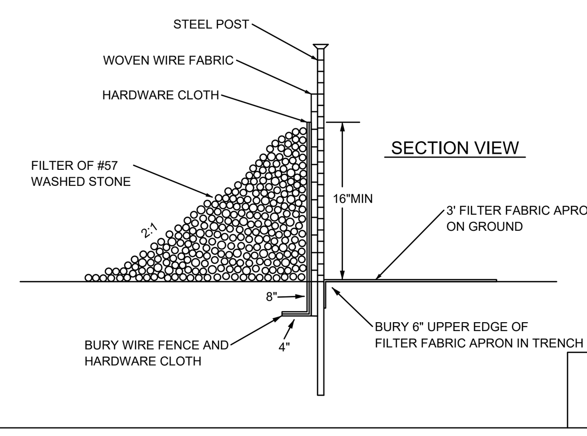
NOTES:
1. FLOW SHALL NOT RUN PARALLEL WITH THE FENCE.
2. END OF SILT FENCE NEEDS TO BE TURNED UPHILL.
3. SEE NC DEQ SEDIMENT DESIGN MANUAL FOR CONSTRUCTION SPECIFICATIONS, WHERE PRACTICE APPLIES AND PLANNING CONSIDERATIONS.
4. SILT FENCE SHOULD NOT BE USED ALONE BELOW GRADED SLOPES GREATER THAN 10' IN HEIGHT.

STANDARD TEMPORARY (SEDIMENT/SILT) FENCE
NOT TO SCALE



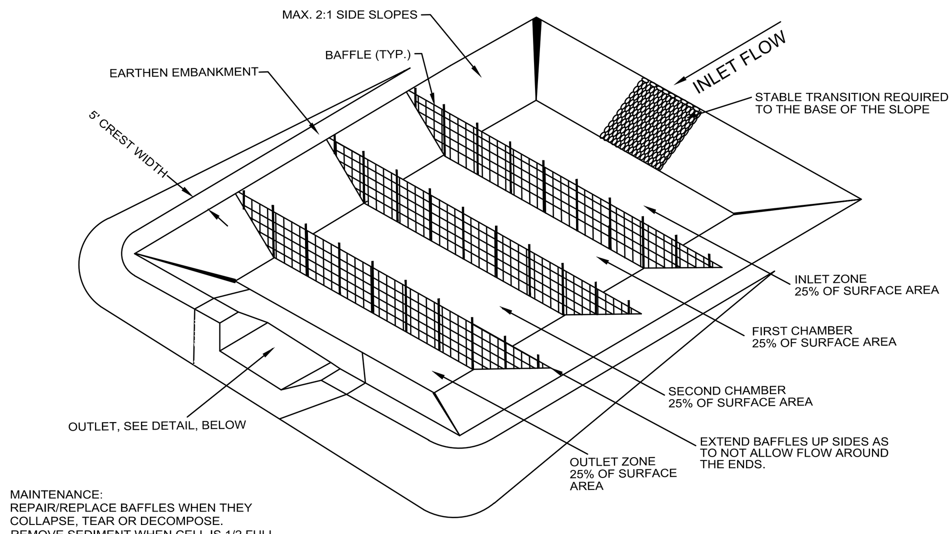
FRONT VIEW

NOTES:
1. REMOVE SEDIMENT WHEN HALF OF STONE OUTLET IS COVERED.
2. REPLACE STONE AS NEEDED TO ENSURE DEWATERING.



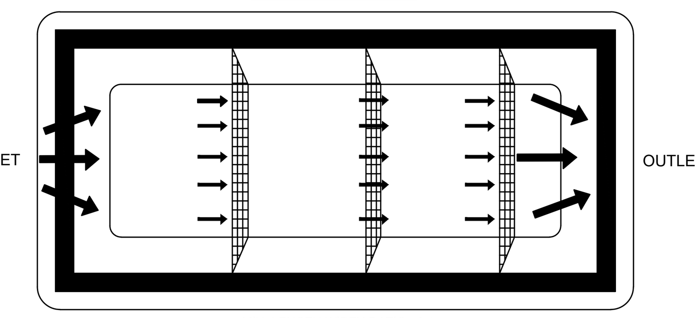
SECTION VIEW

STANDARD SILT FENCE OUTLET
NOT TO SCALE



MAINTENANCE:
REPAIR/REPLACE BAFFLES WHEN THEY COLLAPSE, TEAR OR DECOMPOSE.
REMOVE SEDIMENT WHEN CELL IS 1/2 FULL.

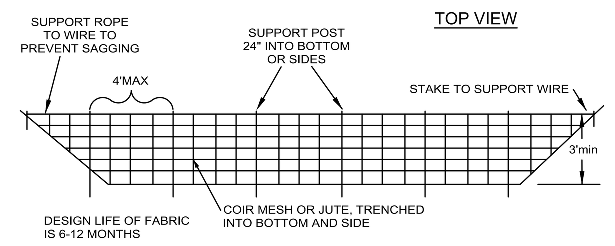
PERSPECTIVE VIEW



MIN. LENGTH:WIDTH RATIO - 2:1

TOP VIEW

NOTES:
1. 3 BAFFLES (MIN) BETWEEN INLET & OUTLET.
2. SEE N.C. DEQ EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL FOR CONDITIONS WHERE PRACTICE APPLIES; PLANNING CONSIDERATION & DESIGN CRITERIA.
3. LOCATE SEDIMENT INFLOW TO THE BASIN AWAY FROM THE DAM TO PREVENT SHORT CIRCUITS FROM INLETS TO OUTLETS
4. AT A MINIMUM, SEED, STRAW & TACK APPLICATION REQUIRED FOR SITE INSPECTION APPROVAL
5. TRAPS MUST BE STABILIZED IMMEDIATELY UPON CONSTRUCTION AND PRIOR TO SITE INSPECTION APPROVAL



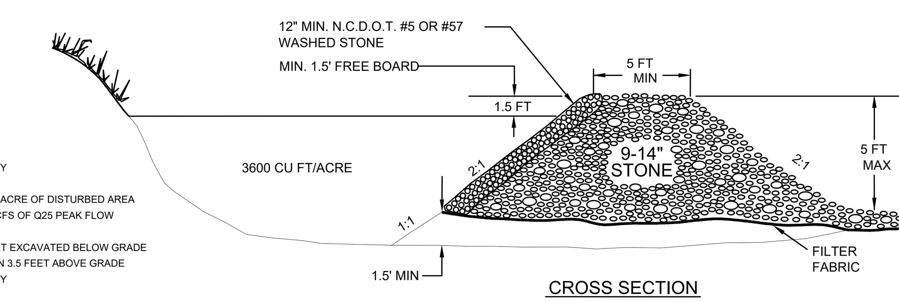
BAFFLE DETAIL

TEMPORARY SEDIMENT TRAP
NOT TO SCALE

DESIGN CRITERIA

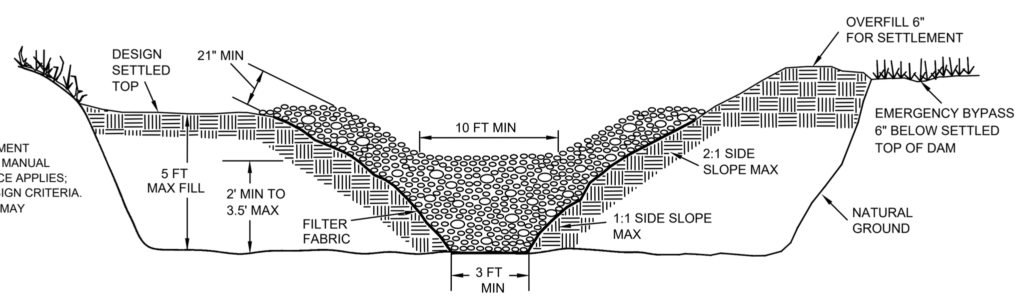
SUMMARY:	
PRIMARY SPILLWAY:	STONE SPILLWAY
MAXIMUM DRAINAGE AREA:	<1 ACRES
MINIMUM VOLUME:	3600 CU FT PER ACRE OF DISTURBED AREA
MINIMUM SURFACE AREA:	435 SQ FT PER CFS OF Q25 PEAK FLOW
MINIMUM L/W RATIO:	2:1
MINIMUM DEPTH:	3.5 FEET, 1.5FEET EXCAVATED BELOW GRADE
MAXIMUM HEIGHT:	WEIR ELEVATION 3.5 FEET ABOVE GRADE
DEWATERING MECHANISM:	STONE SPILLWAY
MINIMUM DEWATERING TIME:	N/A
BAFFLES REQUIRED:	3 MINIMUM (COIR OR JUTE) MESH
MIN WEIR (COR)	10'

NOTE: TRAPS LESS THAN 20' IN LENGTH MAY USE BAFFLES.



CROSS SECTION

NOTES:
SEE N.C. DEQ EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL FOR CONDITIONS WHERE PRACTICE APPLIES; PLANNING CONSIDERATION & DESIGN CRITERIA. BASINS LESS THAN 20' IN LENGTH MAY USE BAFFLES.



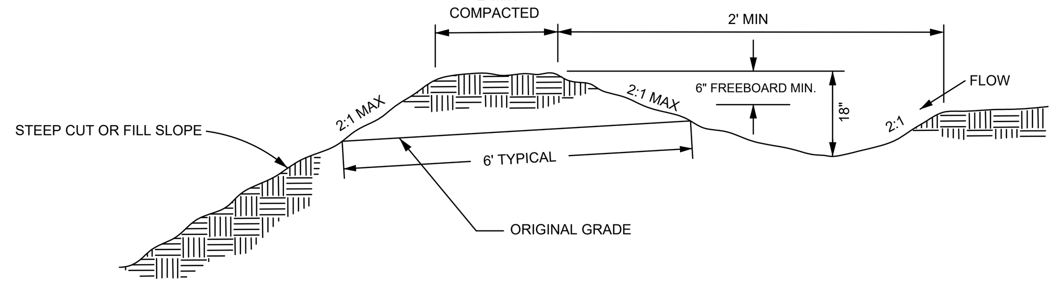
PLAN VIEW

STRUCTURE LIFE LIMITED TO 2 YEARS

MAINTENANCE:
REMOVE SEDIMENT AND RESTORE TRAP TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN
A DESIGNATED DISPOSAL AREA AND REPLACE THE CONTAMINATED PART OF THE GRAVEL FACING.
CHECK THE STRUCTURE FOR DAMAGE FROM EROSION OR PIPING. PERIODICALLY CHECK THE DEPTH OF THE SPILLWAY TO ENSURE IT IS A MINIMUM OF 1.5 FT BELOW THE LOW POINT OF THE EMBANKMENT. IMMEDIATELY FILL ANY SETTLEMENT OF THE EMBANKMENT TO SLIGHTLY ABOVE DESIGN GRADE.

ANY RIP RAP DISPLACED FROM THE SPILLWAY MUST BE REPLACED IMMEDIATELY.

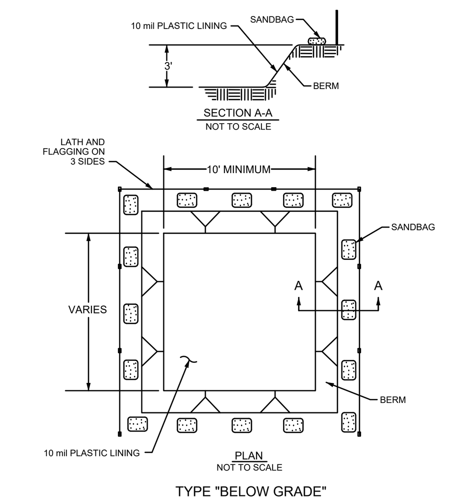
TEMPORARY SEDIMENT TRAP OUTLET DETAIL
NOT TO SCALE



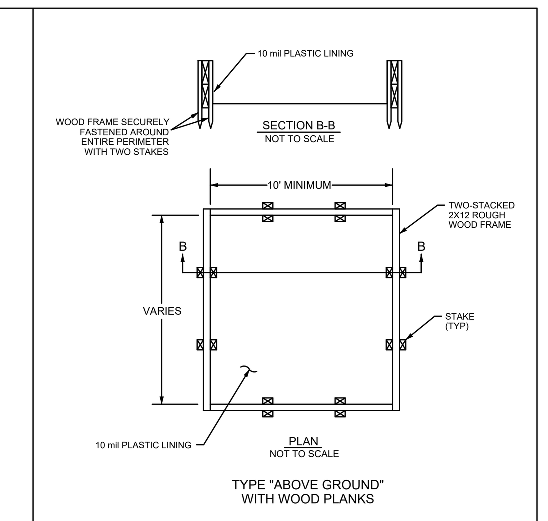
CROSS SECTION

NOTES:
1. STABILIZE IMMEDIATELY UPON CONSTRUCTION AND PRIOR TO SITE INSPECTION APPROVAL.
2. STABILIZE DIVERSION DITCH BASED ON DESIGN VELOCITY. IF DESIGN VELOCITIES (Q_2) IN BARE EARTH CONDITIONS EXCEEDS 2 FT/S, A TEMPORARY LINER IS REQUIRED.
3. MAXIMUM 5 ACRE DRAINAGE AREA TO TEMPORARY DIVERSION.

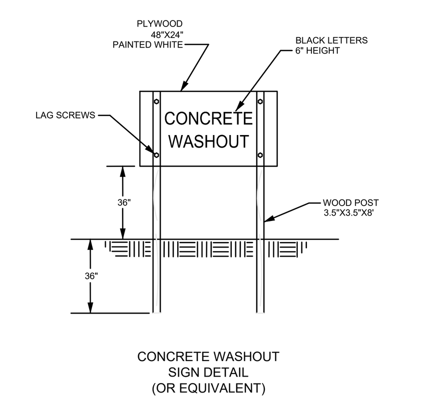
DIVERSION DITCH
NOT TO SCALE



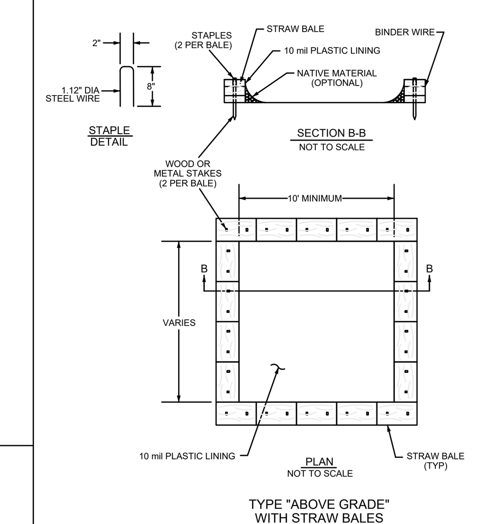
TYPE "BELOW GRADE"



TYPE "ABOVE GROUND" WITH WOOD PLANKS



CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)



TYPE "ABOVE GRADE" WITH STRAW BALES

NOTES:
1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.
2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF OR RECYCLED.
4. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.
5. MUST BE LOCATED >50 FT AWAY FROM INLETS/WATERWAYS UNLESS THERE IS NO OTHER PRACTICAL ALTERNATIVE.

CONCRETE WASHOUT
NOT TO SCALE

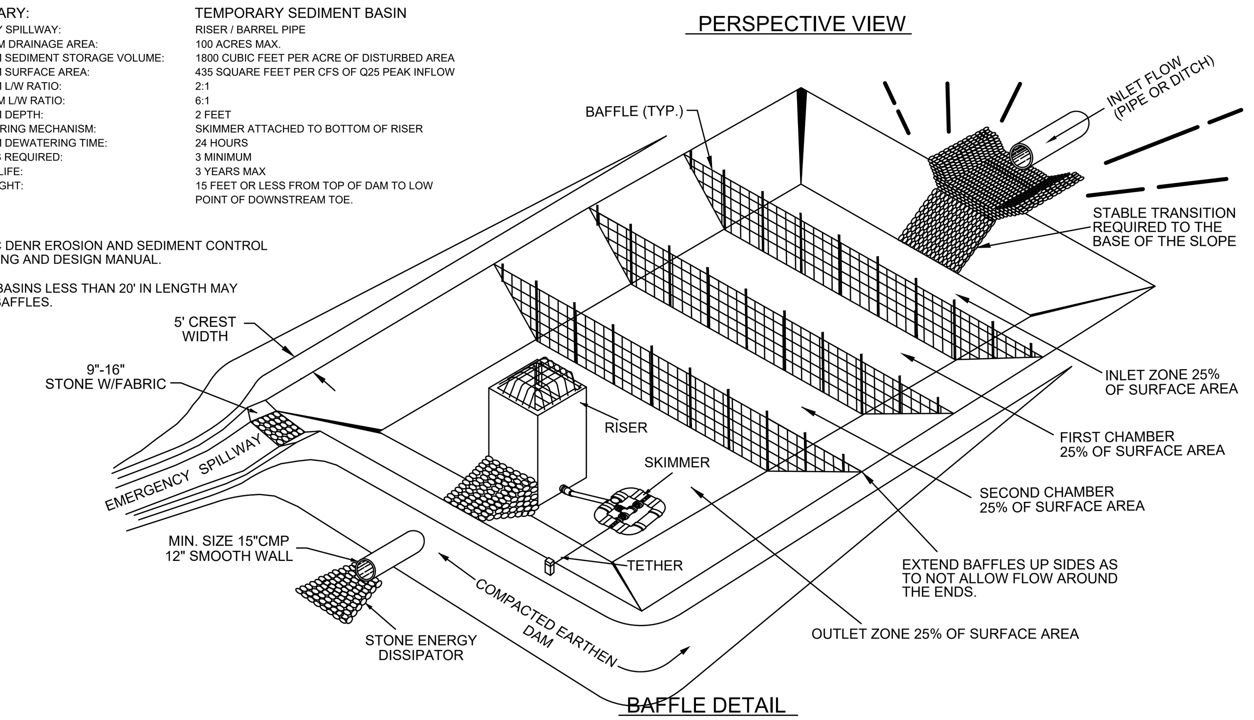
DESIGN CRITERIA

SUMMARY:	TEMPORARY SEDIMENT BASIN
PRIMARY SPILLWAY:	RISER / BARREL PIPE
MAXIMUM DRAINAGE AREA:	100 ACRES MAX.
MINIMUM SEDIMENT STORAGE VOLUME:	1800 CUBIC FEET PER ACRE OF DISTURBED AREA
MINIMUM SURFACE AREA:	435 SQUARE FEET PER CFS OF Q25 PEAK INFLOW
MINIMUM L/W RATIO:	2:1
MAXIMUM L/W RATIO:	6:1
MINIMUM DEPTH:	2 FEET
DEWATERING MECHANISM:	SKIMMER ATTACHED TO BOTTOM OF RISER
MINIMUM DEWATERING TIME:	24 HOURS
BAFFLES REQUIRED:	3 MINIMUM
DESIGN LIFE:	3 YEARS MAX
DAM HEIGHT:	15 FEET OR LESS FROM TOP OF DAM TO LOW POINT OF DOWNSTREAM TOE.

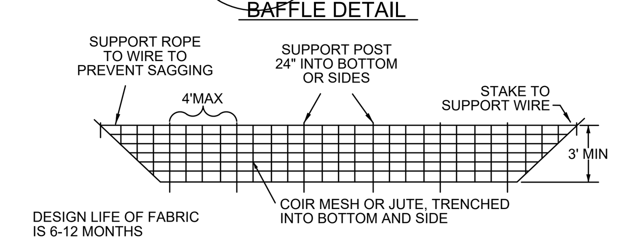
SEE NC DENR EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.

NOTE: BASINS LESS THAN 20' IN LENGTH MAY USE 2 BAFFLES.

PERSPECTIVE VIEW

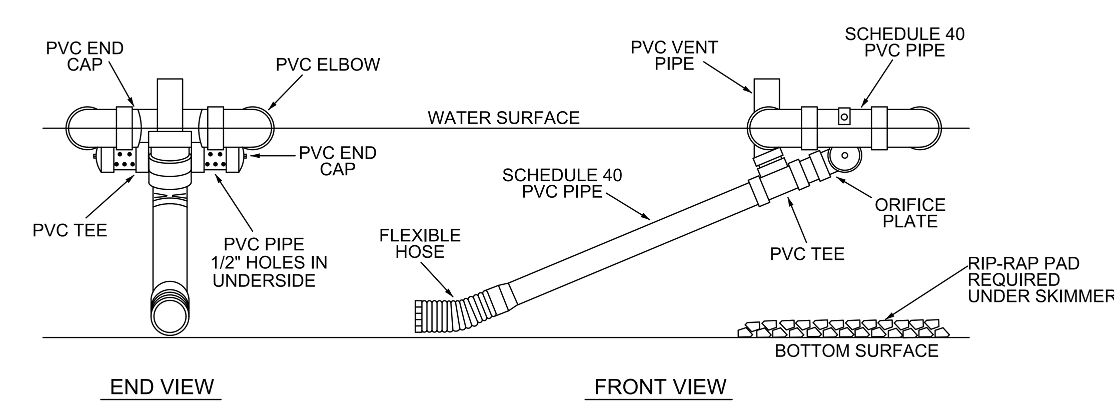


BAFFLE DETAIL



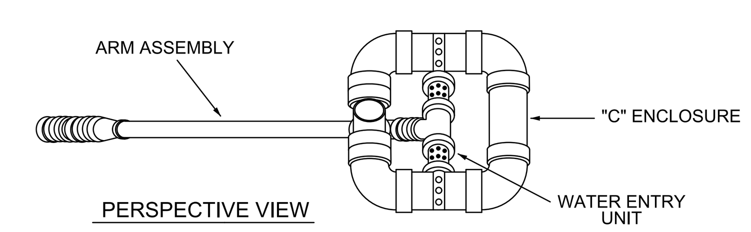
NOTES:
1. LOCATE SEDIMENT INFLOW TO THE BASIN AWAY FROM THE DAM TO PREVENT SHORT CIRCUITS FROM INLETS TO OUTLETS
2. BASINS MUST BE STABILIZED IMMEDIATELY UPON CONSTRUCTION AND PRIOR TO SITE INSPECTION APPROVAL

SEDIMENT BASIN
NOT TO SCALE



END VIEW

FRONT VIEW



PERSPECTIVE VIEW

NOTE: SKIMMER TO BE TETHERED

SKIMMER DETAIL
NOT TO SCALE

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THE SITE GROUP, PLLC. LANDSCAPE ARCHITECTURAL CORPORATION CERT. NO. 353 NORTH CAROLINA RALEIGH, N.C.

Project
THE HEALING PLACE OF NEW HANOVER COUNTY
1000 MEDICAL CENTER DR
WILMINGTON, NC

Client
NEW HANOVER COUNTY

Key Plan

Professional Seals
NORTH CAROLINA PROFESSIONAL SEAL 18303 ENGINEER EDWIN F. SCONFIENZA

N

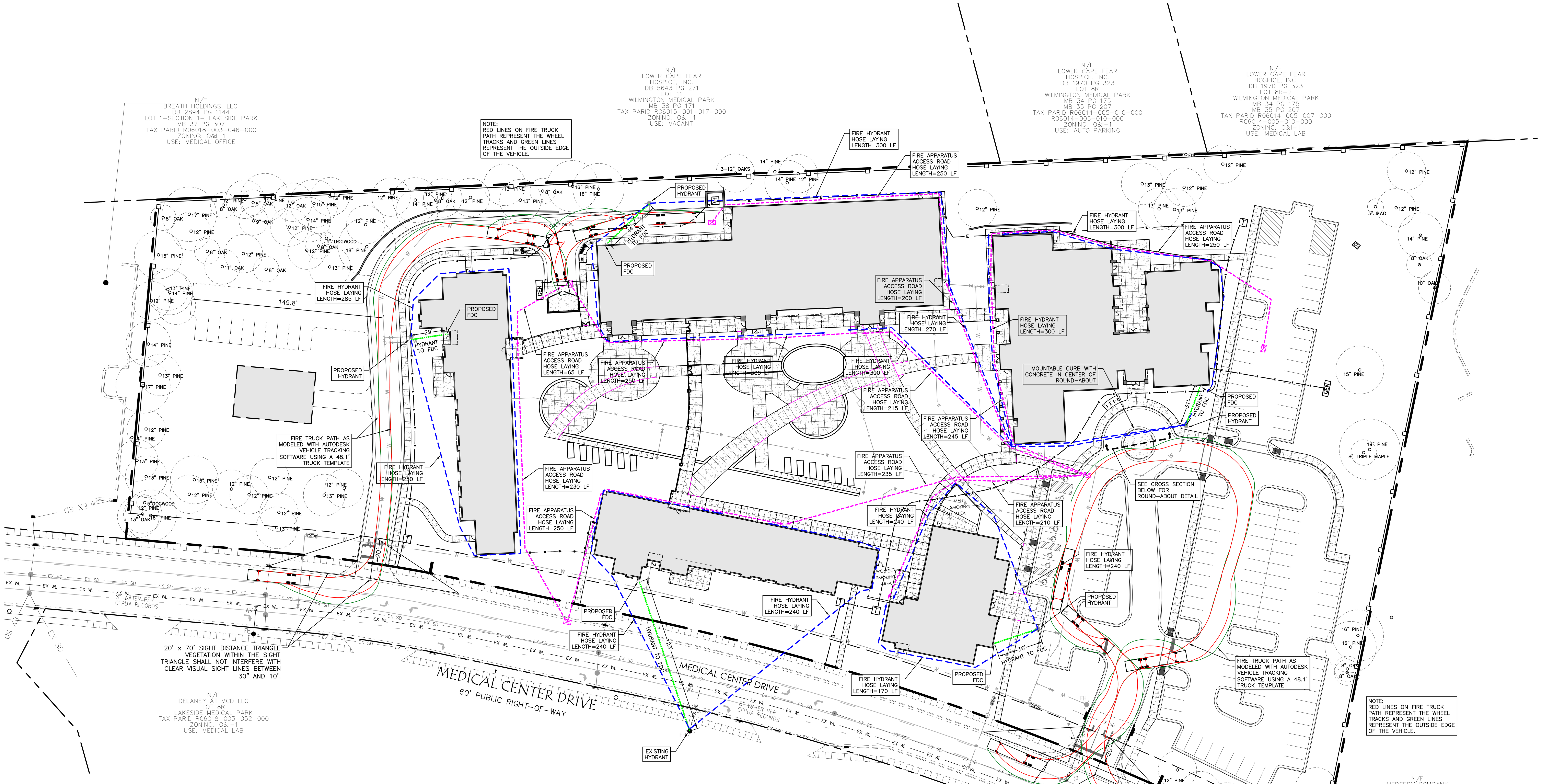
No.	Description	Date
1	PLAN REVIEW DOCUMENTS	09/14/2020

Project Code: HTW
Sheet Title
SITE DETAILS

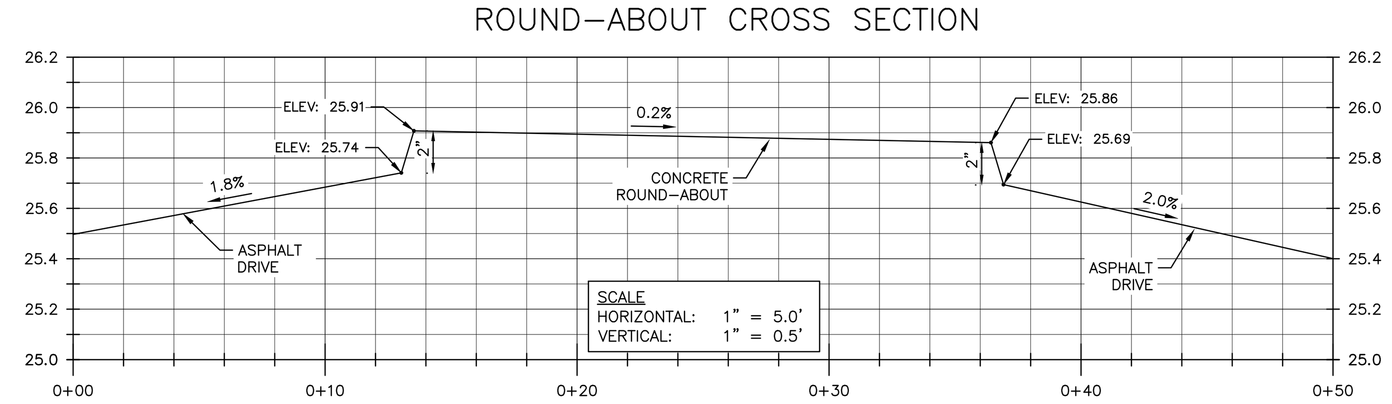
Original drawing is 42 x 30 Do not scale contents of this drawing

Sheet Number
SITE 605

H:\The SITE Group\Projects\HTW\Dwg\HTW-SITEBASE.dwg, SITE 605, 9/16/2020 3:20:51 PM
9/16/2020 3:20 PM H:\The SITE Group\Projects\HTW\Dwg\HTW-SITEBASE.dwg



ROUND-ABOUT CROSS SECTION



GENERAL NOTES

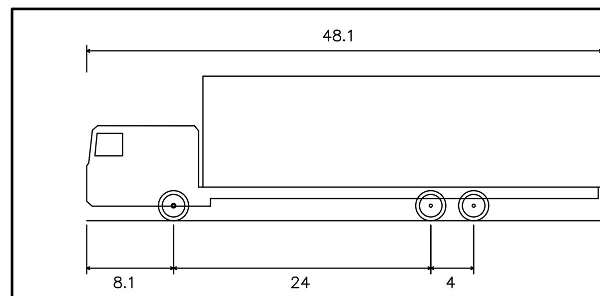
1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF WILMINGTON AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR SHALL HAVE NORTH CAROLINA ONE CALL (811) LOCATE ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
3. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
4. BOUNDARY AND TOPOGRAPHICAL INFORMATION IS TAKEN FROM A SURVEY BY STROUD ENGINEERING P.A. FOR TRILLIUM HEALTH RESOURCES DATED MAY 19, 2106. AN ADDITIONAL WETLAND AND TREE INFORMATION IS TAKEN FROM A SURVEY BY BATEMAN CIVIL SURVEY CO. DATED SEPTEMBER 9, 2016.
5. ALL CONSTRUCTION SHALL CONFORM TO A.D.A. STANDARDS.
6. CONTRACTOR SHALL CALL TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.
7. NO LAND DISTURBANCE INCLUDING TREE REMOVAL IS TO OCCUR OUTSIDE THE LIMITS OF DISTURBANCE SHOWN ON THE PLANS.
8. PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. LAND CLEARING AND CONSTRUCTION CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTION ON TREE PROTECTION REQUIREMENTS AND METHODS.

FIRE & LIFE SAFETY NOTES

1. CONTRACTOR SHALL MAINTAIN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
2. NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIAL BEING DELIVERED TO THE JOB SITE.
3. HYDRANT MUST BE WITHIN 150' OF THE FDC (MEASURED AS THE TRUCK DRIVES FOR PRACTICAL PURPOSES.
4. FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
5. LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE THE FDC OR FIRE HYDRANTS. A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF THE HYDRANT AND FDC.
6. ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
7. PRIVATE UNDERGROUND FIRE LINES REQUIRE A SEPARATE UNDERGROUND FIRE LINE PERMIT FROM THE WILMINGTON FIRE AND LIFE SAFETY DIVISION 910-343-0696.
9. CONTRACTOR SHALL SUBMIT A RADIO SIGNAL STRENGTH STUDY FOR ALL COMMERCIAL BUILDINGS THAT DEMONSTRATES THAT EMERGENCY RESPONDER RADIO SIGNAL LEVELS MEET SECTION 510 REQUIREMENTS OF THE 2018 NC FIRE CODE.
10. ALL ISOLATION VALVES WITHIN THE "HOT BOX" SHALL BE ELECTRICALLY SUPERVISED.

LEGEND

	PROPERTY BOUNDARY
	EX. ADJ LOT LINE
	EX. EASEMENTS
EX SS	EX. SAN SEWER LINE
EX WL	EX. WATER LINE
EX SD	EX. STORM DRAIN LINE
SS	NEW SAN SEWER LINE
W	NEW WATER LINE
E	NEW ELECTRIC LINE
	NEW STORM DRAIN LINE
WET	EX. WETLANDS
	TOPO MAJOR
	TOPO MINOR



48.1' Single Unit Truck	
Overall Length	48.100ft
Overall Width	8.000ft
Overall Body Height	13.500ft
Min Body Ground Clearance	1.367ft
Track Width	8.000ft
Lock-to-lock time	5.00s
Max Steering Angle (Virtual)	45.00°

FIRE TRUCK DESIGN VEHICLE

(NOT TO SCALE)

FLOODPLAIN NOTE:

THIS SITE IS NOT IN ANY SPECIAL FLOOD HAZARD AREAS OR FUTURE CONDITIONS FLOOD HAZARD AREAS, AS SHOWN ON FIRM PANEL 3701713126K DATED MAY 2, 2006

TREE PROTECTION NOTE:

NO CONSTRUCTION EQUIPMENT IS ALLOWED ON THE SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING HAS BEEN INSTALLED AND APPROVED.

NC GRID NAD83

NORTH

SCALE: 1" = 40'

0 40 80 120 160

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Project

THE HEALING PLACE OF NEW HANOVER COUNTY

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Client

NEW HANOVER COUNTY

NEW HANOVER COUNTY • NORTH CAROLINA ESTABLISHED 1729

Key Plan

Professional Seals

NORTH CAROLINA PROFESSIONAL SEAL 18303 ENGINEER EDWIN F. SCONFIENZA

Edwin F. Sconfienza 9/14/20

N

No.	Description	Date
1	PLAN REVIEW DOCUMENTS	07/01/2020
2	PLAN REVIEW DOCUMENTS	09/14/2020

Project Code: HTW

Sheet Title

FIRE ACCESS PLAN

Original drawing is 42 x 30 Do not scale contents of this drawing

Sheet Number

SITE 700