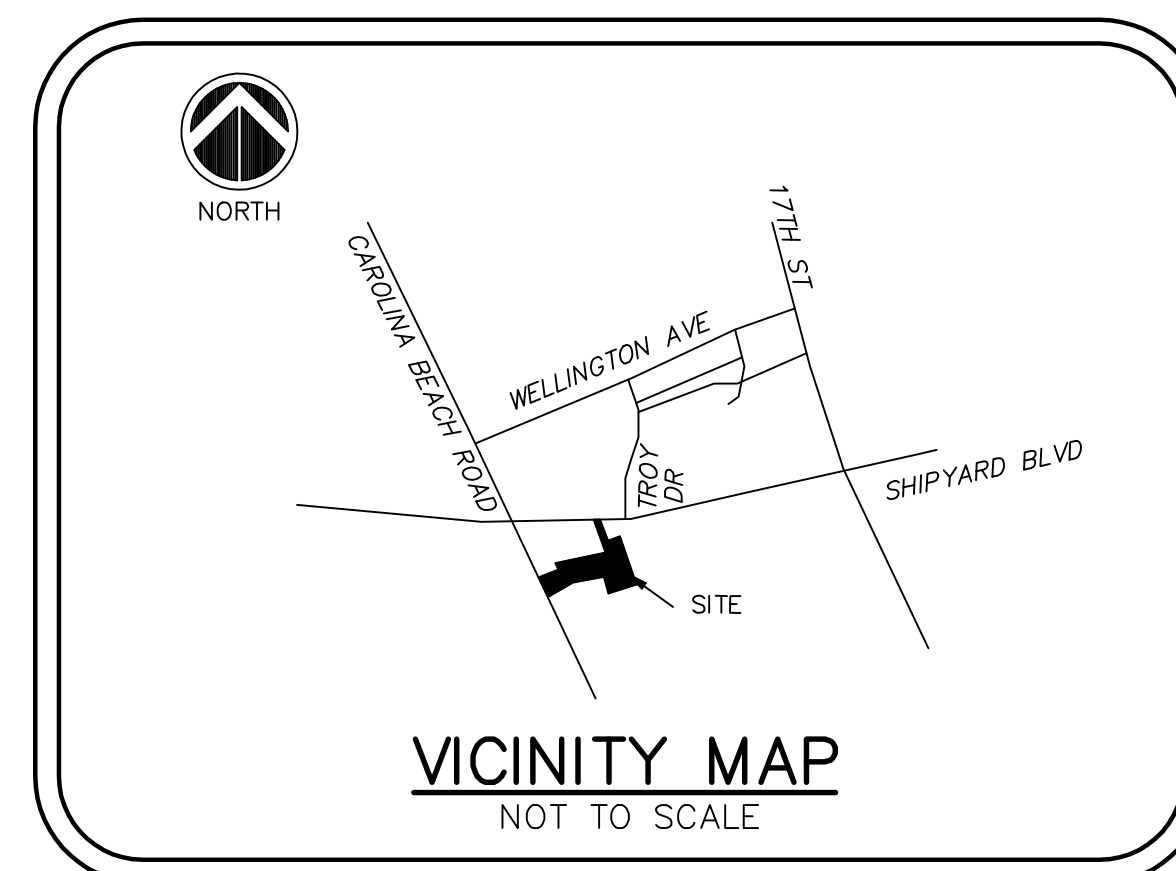
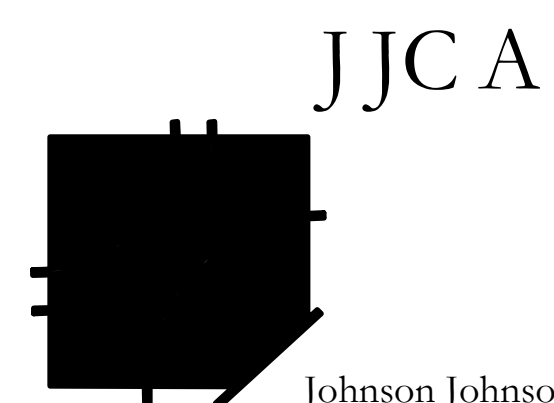


DEVELOPMENT PLANS for PARTIAL HOSPITALIZATION CENTER WILMINGTON TREATMENT CENTER 2645-2651 CAROLINA BEACH ROAD REFLECTIONS LOOP Wilmington, North Carolina



ARCHITECT:



Johnson Johnson
Crabtree Architects PC

4551 Trousdale Drive
Nashville, TN 37204

tel 615.837.0656
fax 615.837.0657

ENGINEER/LAND PLANNING:

Ingram Civil Engineering Group, LLC
240 Wilson Pike Circle Suite 200
Brentwood, TN 37027
(615)370-7964

SURVEYOR:

McKim&Creed
243 N. Front Street
WILMINGTON, NC 28401
(910)343-8282

OWNER:



6100 Tower Circle, Suite 1000
Franklin, TN 37067
(910)254-5434
Local Contact: Pamela Stalls



Coastal Land Design, PLLC

Civil Engineering / Landscape Architecture
Land Planning / Construction Management

NCBELS Firm License No: P-0369

P.O.Box 1172
Wilmington, NC 28402 Phone: 910-254-9333
Fax: 910-254-0502

CONTENTS

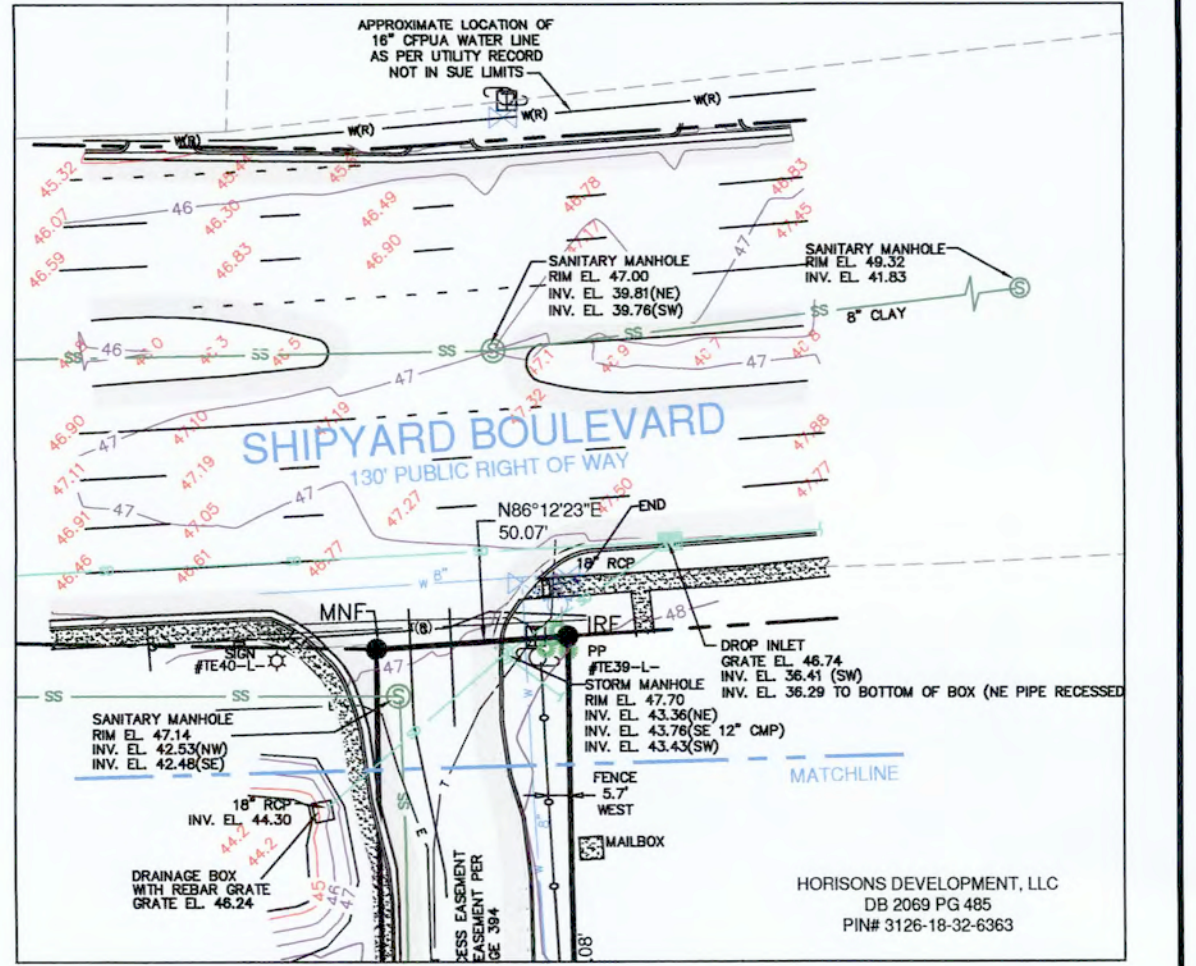
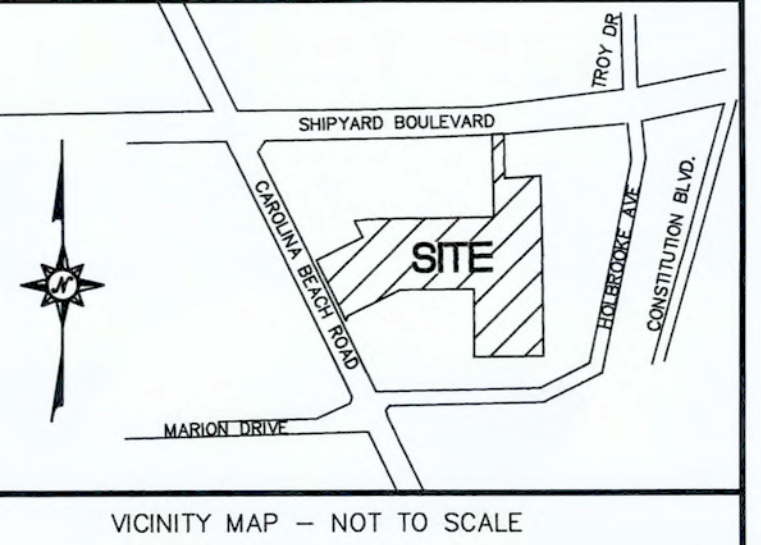
INV	INVENTORY OF EXISTING SITE CONDITIONS
C100	DEMOLITION PLAN
C200	SITE PLAN
C201	SITE PLAN
C210	SITE DETAILS
C211	SITE DETAILS
C212	SITE DETAILS
C213	SITE DETAILS
C214	SITE DETAILS
C300	SITE GRADING PLAN
C301	SITE GRADING PLAN
C310	SITE GRADING DETAILS
C400	DRAINAGE PLAN
C401	DRAINAGE PLAN
C402	DRAINAGE PLAN
C403	DRAINAGE PLAN
C410	DRAINAGE PLAN DETAILS
C411	DRAINAGE PLAN DETAILS
C500	DRAINAGE PLAN
C501	DRAINAGE PLAN
C502	DRAINAGE PLAN
C510	DRAINAGE PLAN
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A2.1	ARCHITECTURAL DRAWINGS
A2.2	HOSPITAL ELEVATIONS
A2.3	HOSPITAL ELEVATIONS
A2.20	DORMATORY ELEVATIONS
A2.21	HOSPITAL PERSPECTIVE
A2.21	DORMATORY PERSPECTIVE

For each open utility
cut of
City streets, a \$325
permit
shall be required from
the
City prior to occupancy
and/or project
acceptance.

WILMINGTON
NORTH CAROLINA
Public Services Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____

WILMINGTON
NORTH CAROLINA
Approved Construction Plan
Name _____ Date _____
Planning _____
Traffic _____
Fire _____

PRELIMINARY DESIGN
NOT FOR CONSTRUCTION



- SURVEYOR'S NOTES:**
- ALL DISTANCES ARE HORIZONTAL GROUND IN U.S. SURVEY FEET UNLESS OTHERWISE SHOWN.
 - BEARINGS BASED ON NC GRID NAD83/2011.
 - REFERENCES: AS SHOWN ON MAP.
 - SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP, TITLE EVIDENCE, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.
 - THE UNDERGROUND UTILITIES SHOWN REPRESENT QUALITY LEVEL B SUBSURFACE UTILITY ENGINEERING SERVICES. UTILITY MARKS PLACED ON THE GROUND BY MCKIM & CREED ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES. USE OF THIS INFORMATION DOES NOT RELIEVE ANY PARTY FROM THEIR OBLIGATION TO CONTACT THE UTILITY DAMAGE PREVENTION SYSTEM BEFORE DIGGING BEGINS. THIS UTILITY SYSTEM DOES NOT GUARANTEE THE EXISTENCE OF EACH UTILITY OR THAT ALL THE UNDERGROUND UTILITIES HAVE BEEN ACCOUNTED FOR. THE SURVEYOR HAS NOT EXPOSED THESE UTILITIES TO VERIFY EXACT HORIZONTAL AND VERTICAL POSITIONS. SERVICES WERE PROVIDED IN ACCORDANCE WITH THE STANDARD OF PRACTICE FOR THE SUBSURFACE UTILITY ENGINEERING PROFESSION.
 - SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS A PART OF THIS SURVEY. NO STATEMENT IS MADE CONCERNING THE EXISTENCE OF UNDERGROUND OR OVERHEAD CONTAINERS OR FACILITIES THAT MAY AFFECT THE USE OR DEVELOPMENT OF THIS TRACT.
 - THE EXISTENCE OR NONEXISTENCE OF METALS OR SUBJECT PROPERTY HAS NOT BEEN DETERMINED BY THIS SURVEY.
 - SUBJECT TO ALL EASEMENTS, RIGHT OF WAYS, AND OR ENCUMBRANCES THAT MAY AFFECT THIS PROPERTY.
 - LANDS SHOWN HEREON CONTAINING 393,610 SQUARE FEET, OR 9.04 ACRES, MORE OR LESS.
 - LANDS SHOWN HEREON ARE LOCATED IN FEDERAL FLOOD ZONE X, PER COMMUNITY PANEL NO. 3707171, 37125 J, DATED JAN. 3, 2006, BASED ON FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP AND ARE RELATIVE TO NORTH AMERICAN VERTICAL DATUM OF 1988.
 - ZONING: RB = REGIONAL BUSINESS DISTRICT
MINIMUM FRONT SETBACK (FEET): 25
MINIMUM REAR SETBACK (FEET): 15(B), (D)
MINIMUM INTERIOR SIDE SETBACK (FEET): 5(C), (D)
MINIMUM CORNER LOT SIDE SETBACK (FEET): 25
MAXIMUM HEIGHT (FEET): 35+(A)
(A) SEE SUBSECTION (F)(2) BELOW FOR INCREASED BUILDING HEIGHT ALLOWANCES TO A MAXIMUM OF NINE (9) FEET.
(B) WHEN ABUTTING A RESIDENTIAL DISTRICT, THE MINIMUM REAR SETBACK SHALL BE TWENTY-FIVE (25) FEET.
(C) WHEN ABUTTING A RESIDENTIAL DISTRICT, THE MINIMUM INTERIOR SIDE SETBACK SHALL BE TWENTY (20) FEET.
(D) FOR EVERY FOOT OF INCREASED HEIGHT FOR STRUCTURES OVER TWENTY (20) FEET, THE DEVELOPER SHALL PROVIDE ADDITIONAL INTERIOR SIDE AND REAR YARD SETBACKS AT A 1:1 RATIO WHERE ABUTTING A RESIDENTIAL DISTRICT.

SURVEYOR'S CERTIFICATION:

I, CHAD D. BURCHETTE, PLS. L-5181, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION, THAT THE BOUNDARY LINES NOT SURVEYED ARE INDICATED WITH DASHED LINES AS DRAWN FROM INFORMATION IN THE NEW HANOVER COUNTY GIS; THAT THE RATIO OF PRECISION IS 1:56,791; THAT THIS PLAT MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56.1600).

THAT THE GPS SURVEY MADE WAS UNDER MY SUPERVISION AND THE FOLLOWING INFORMATION WAS USED TO PERFORM THIS SURVEY.

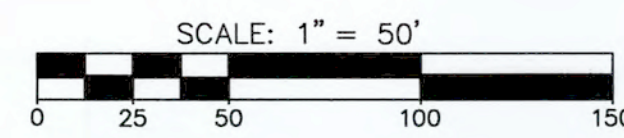
CLASS OF SURVEY: CLASS "A" TOPOGRAPHIC
POSITIONAL ACCURACY: 0.034 @ 95% HORIZONTAL
0.031 @ 95% VERTICAL
TYPE OF GPS FIELD PROCEDURE: WRS RTK
DATES OF SURVEY: AUGUST 26, 2016
DATUM/EPOCH: NC GRID NAD83/2011
PUBLISHED/FIXED-CONTROL USED: NCGS MONUMENT MCDONALDS
GEOID MODEL: GEOID12A
COMBINED GRID FACTOR: 1.00004605
UNITS: U.S. SURVEY FEET

WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER, AND SEAL THIS 15 DAY OF February, 2017.

CHAD D. BURCHETTE
PROFESSIONAL LAND SURVEYOR L-5181

REVISION 1 - EXTEND STORM DRAIN SYSTEM FROM SITE TO SHIPYARD BOULEVARD
REVISION 2 - CHANGE MAP SIZE TO A 24 X 36

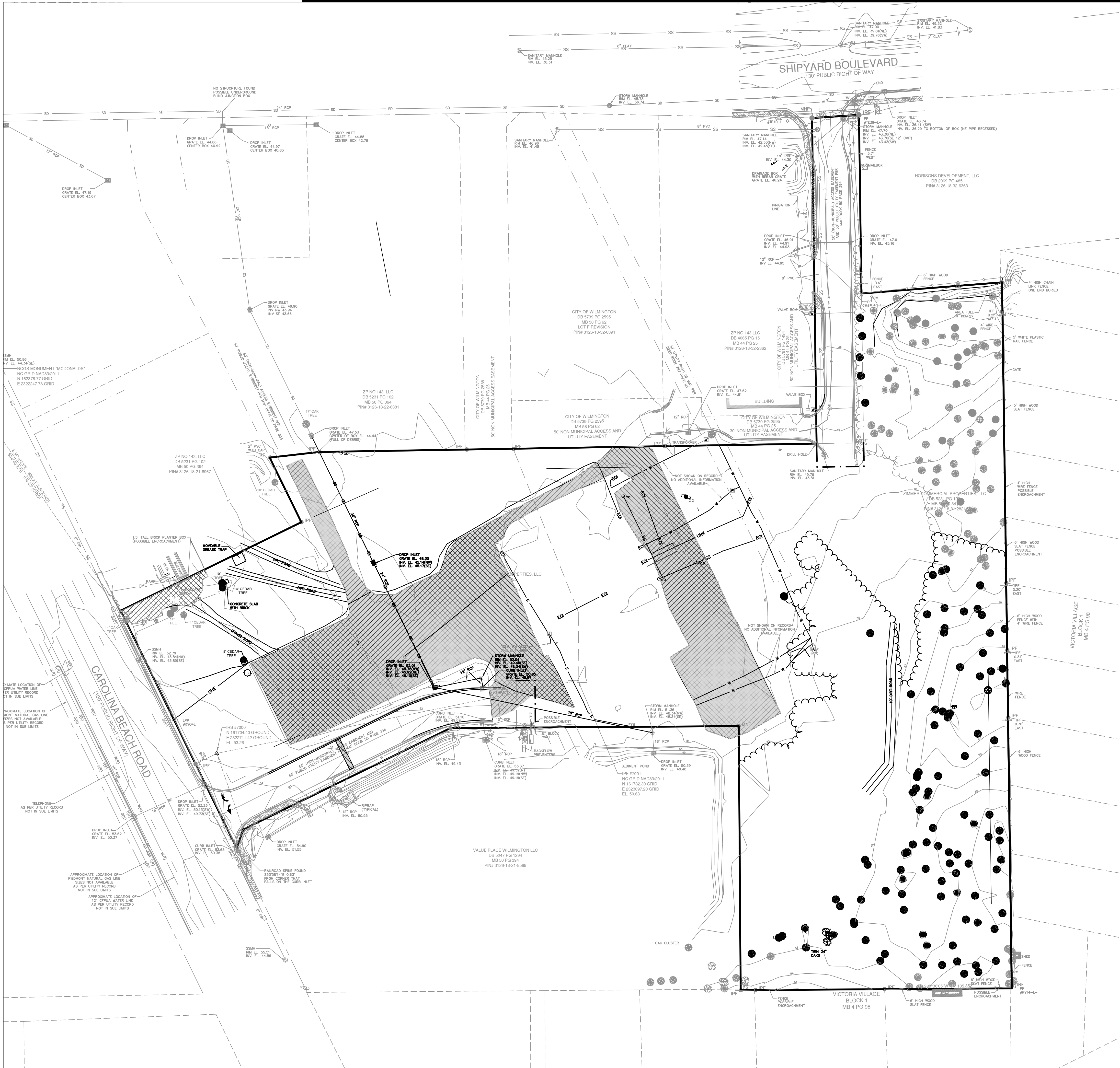
- LEGEND**
- | | | | |
|---------------|---------------------------------|---------------|------------------------------|
| IPF Δ | = IRON PIPE FOUND (CONTROL TIE) | IPF \square | = TELEPHONE PEDESTAL |
| \square | = CONCRETE MONUMENT FOUND | \square | = FIRE HYDRANT |
| IPF \bullet | = IRON PIPE FOUND | \square | = WATER VALVE |
| R/W | = RIGHT OF WAY | \square | = WATER METER |
| DB | = DEED BOOK | LP \star | = LIGHT POLE |
| PG | = PAGE | PP \star | = POWER POLE |
| N/F | = NOW/FORMERLY | \square | = ELECTRIC HANDHOLE |
| RCP | = REINFORCED CONCRETE PIPE | \square | = GUY WIRE |
| DIP | = DUCTILE IRON PIPE | \square | = SANITARY SEWER MANHOLE |
| INV. | = INVERT | \square | = SANITARY SEWER VALVE |
| EL. | = ELEVATION | \square | = CLEANOUT |
| LSA | = LANDSCAPE AREA | \square | = SIGN |
| \square | = GROUND SHOT ELEVATION | \square | = YARD INLET |
| \square | = CONCRETE | \square | = STORM DRAIN MANHOLE |
| \square | = ASPHALT PAVEMENT | \square | = CURB INLET |
| \square | = TELEPHONE MANHOLE | \square | = MONITORING WELL |
| \square | = END OF UTILITY INFORMATION | \square | = UNDERGROUND WATER LINE |
| \square | = LINES PER NEW HANOVER GIS | \square | = UNDERGROUND TELEPHONE LINE |
| \square | = UNKNOWN UTILITY LINE | \square | = CHAIN LINK FENCE |
| \square | = OVERHEAD ELECTRIC LINE | \square | = UNDERGROUND STORM LINE |
| \square | = UNDERGROUND ELECTRIC LINE | \square | = UNDERGROUND SANITARY LINE |
| \square | = WOODS LINE | | |



MCKIM & CREED
243 NORTH FRONT STREET
WILMINGTON, NORTH CAROLINA 28401
TELEPHONE: (910) 343-1048
FAX: (910) 251-8282
NORTH CAROLINA FIRM LICENSE NUMBER: F-1222

BOUNDARY AND TOPOGRAPHIC SURVEY
FOR
WILMINGTON TREATMENT CENTER SITE NO. 2
2651 & 2645 CAROLINA BEACH ROAD
ZIMMER COMMERCIAL PROPERTIES
CITY OF WILMINGTON, NEW HANOVER COUNTY, NORTH CAROLINA
DATE: SEPTEMBER 28, 2016 - REVISED: FEBRUARY 15, 2017

JOB NUMBER: 04379-0003
SCALE: 1" = 50'
CAD NUMBER: VA101-043790003_WTCC_R1.DWG
PLS: DJW
PARTY CHIEF: LJW
CAD TECH: MBH
FIELD BOOK/PAGE: FB/PG
DRAWING NUMBER: 2016-036
SHEET 1 OF 1



GENERAL DEMOLITION NOTES

1. THE SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE CITY OF WILMINGTON/NEW HANOVER COUNTY STANDARD SITE WORK SPECIFICATIONS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF THE EXISTING STRUCTURES, RELATED UTILITIES, PAVING, UNDERGROUND STORAGE TANKS AND ANY OTHER EXISTING IMPROVEMENTS, AS NOTED. SEE SITE WORK SPECIFICATIONS.
3. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
4. THE GENERAL CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
5. ENGINEER'S NOTICE TO CONTRACTOR: THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
6. SITE LAYOUT FOR WILMINGTON TREATMENT CENTER SITE NO. 2 BY INGRAM CIVIL ENGINEERING GROUP, LLC, BASED ON SITE SURVEY BY MCKIM & CREED ON 09-28-2016. ORIGINAL TOPOGRAPHICAL INFORMATION IS BASED ON A SURVEY BY MCKIM & CREED ON 09-28-2016. THE ENGINEER, THE OWNER, OR ANY OF THE OWNER'S CONSULTANTS SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION.
7. ALL NOTED DISTANCES WITH REGARD TO ITEMS TO BE DEMOLISHED ARE APPROXIMATE.

DEMOLITION NOTES

A TO BE REMOVED

LEGEND: DEMOLITION

EXISTING PAVEMENT TO BE SAWCUT & REMOVED

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

CITY OF WILMINGTON
NORTH CAROLINA

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

Signed: _____

CITY OF WILMINGTON
NORTH CAROLINA

Approved Construction Plan

Name _____ Date _____

Planning _____

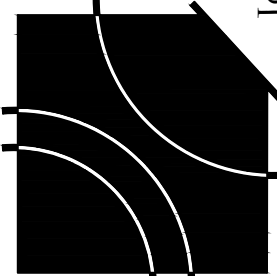
Traffic _____

Fire _____

DEMOLITION PLAN



J J C A



New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC

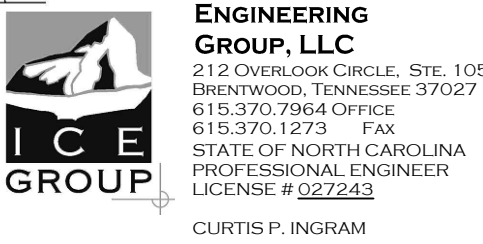
ACADIA
HEALTHCARE



Cumulative Sheet Re-issue

May 8, 2017

(Individual revisions clouded and labeled within sheet)



INGRAM CIVIL ENGINEERING GROUP, LLC
212 OVERLOOK CIRCLE, STE. 105
BRYNMAWR, PENNSYLVANIA 19001
610-370-1273 FAX 610-370-1274
STATE OF NORTH CAROLINA
PROFESSIONAL ENGINEER
LICENSE # 0227243
CURTIS P. INGRAM

PROJECT NUMBER

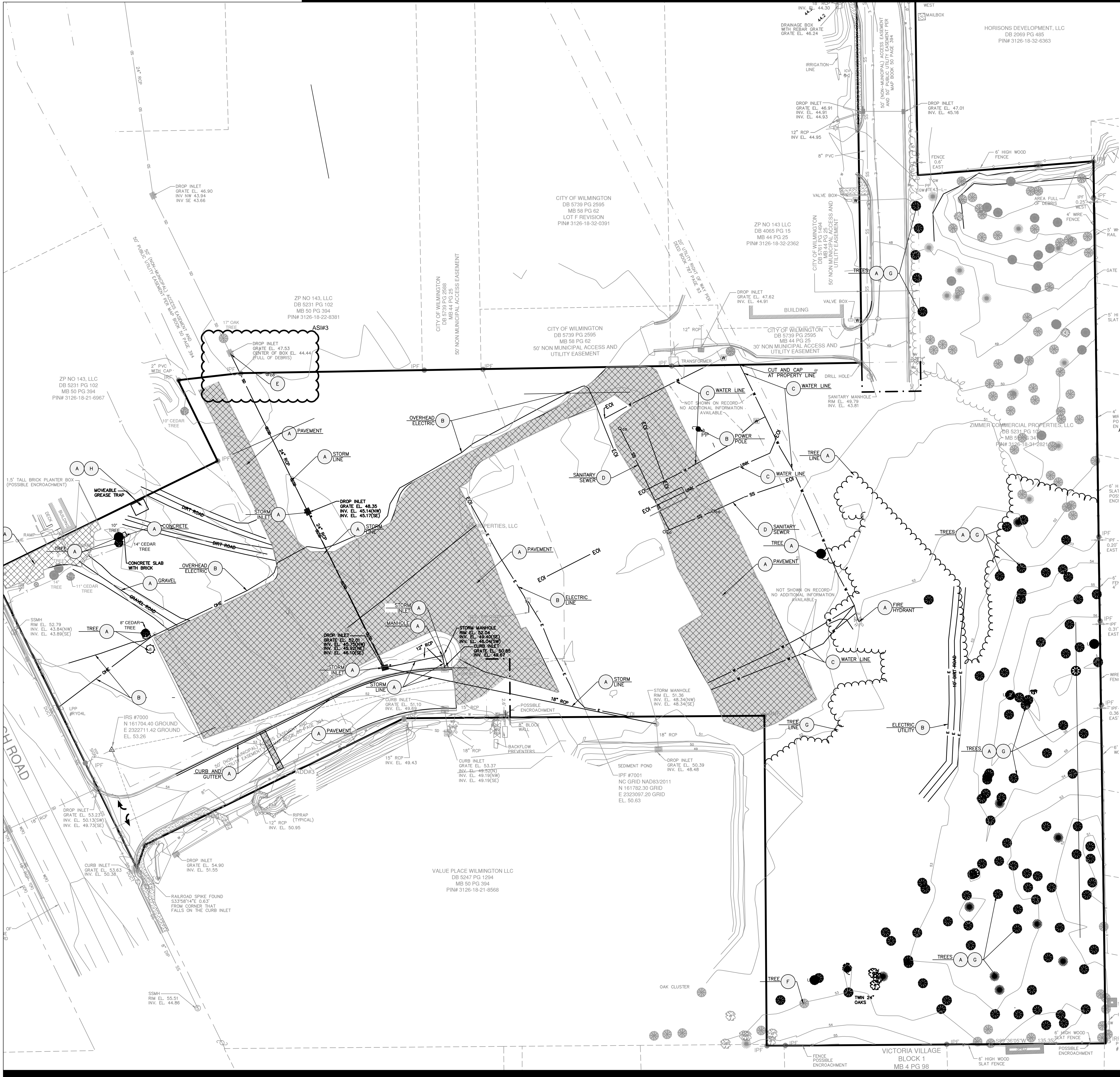
15678.01

DATE

January 13, 2017

C100

DEMOLITION
PLAN



GENERAL DEMOLITION NOTES

1. THE SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE CITY OF WILMINGTON/NEW HANOVER COUNTY STANDARD SITE WORK SPECIFICATIONS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF THE EXISTING STRUCTURES, RELATED UTILITIES, PAVING, UNDERGROUND STORAGE TANKS AND ANY OTHER EXISTING IMPROVEMENTS, AS NOTED. SEE SITE WORK SPECIFICATIONS.
3. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
4. THE GENERAL CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
5. ENGINEER'S NOTICE TO CONTRACTOR: THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
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7. ALL NOTED DISTANCES WITH REGARD TO ITEMS TO BE DEMOLISHED ARE APPROXIMATE.

DEMOLITION NOTES

- A TO BE REMOVED
- B TO BE REMOVED. SEE ELECTRIC SITE PLAN AND ELECTRIC SERVICE PROVIDER FOR MORE INFORMATION
- C TO BE REMOVED. COORDINATE WITH WATER SERVICE PROVIDER AND C600 (THESE PLANS)
- D TO BE REMOVED. COORDINATE WITH SEWER SERVICE PROVIDER AND C600 (THESE PLANS)
- E DEBRIS IN EXISTING DROP INLET IS TO BE CLEANED OUT
- F TREE TO REMAIN. CARE TO BE TAKEN AROUND TREE AS TO NOT DAMAGE TREE OR THE TREE'S ROOT SYSTEM.
- G COORDINATE TREE REMOVAL WITH LANDSCAPE PLANS.
- H GREASE TRAP TO BE MOVED. COORDINATE WITH OWNER AND ADJACENT OWNER.

LEGEND: DEMOLITION

EXISTING PAVEMENT TO BE SAWCUT & REMOVED

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

CITY OF WILMINGTON
NORTH CAROLINA

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

Signed: _____

CITY OF WILMINGTON
NORTH CAROLINA

Approved Construction Plan

Name _____ Date _____

Planning _____

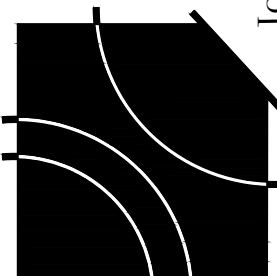
Traffic _____

Fire _____

DEMOLITION PLAN



JJCA



New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC

ACADIA
HEALTHCARE



Cumulative Sheet Re-issue
May 8, 2017
(Individual revisions clouded and labeled within sheet)



PROJECT NUMBER
15678.01
DATE
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C101
DEMOLITION
PLAN

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WILMINGTON
NORTH CAROLINA

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WILMINGTON
NORTH CAROLINA

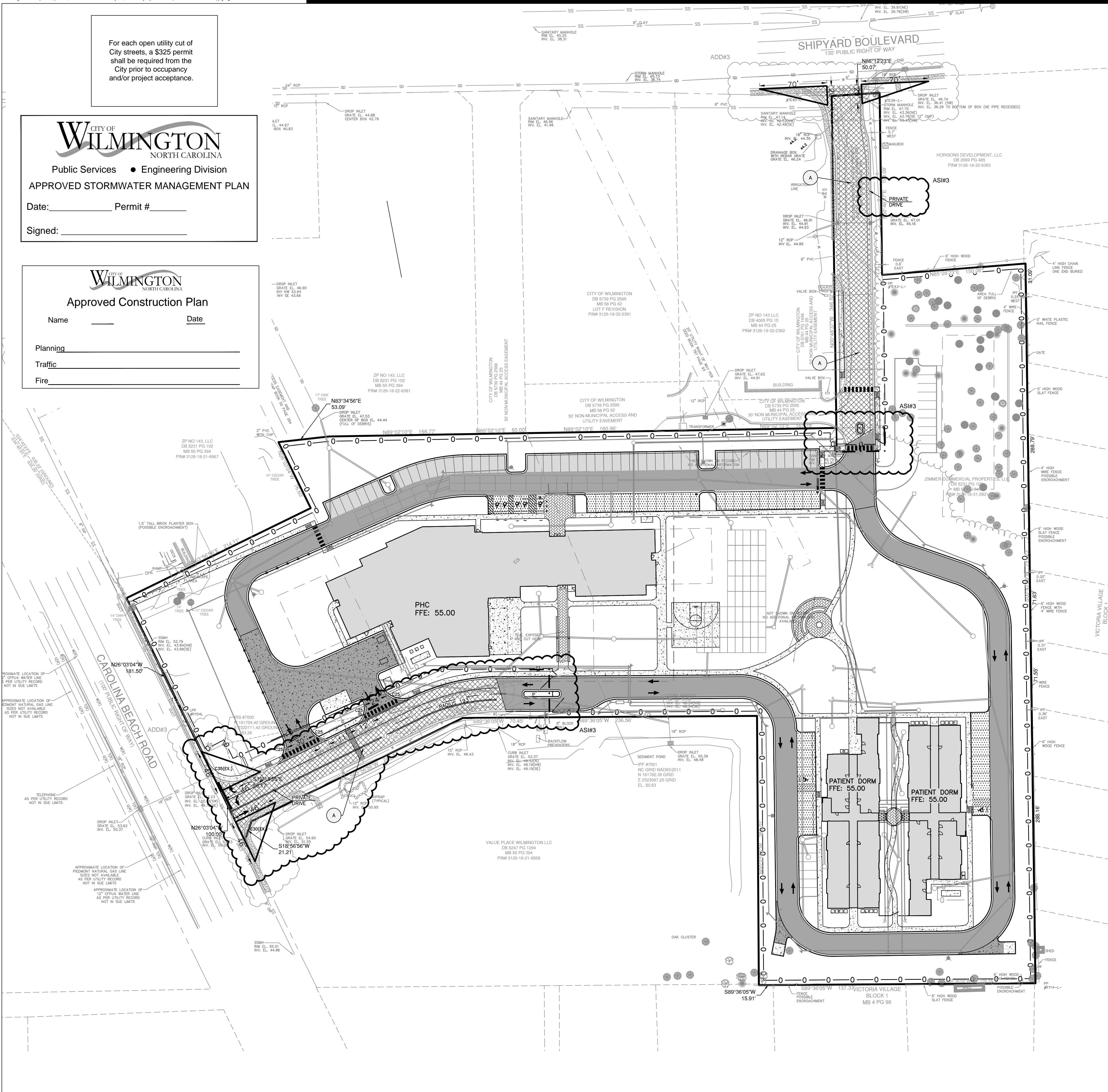
Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

Fire _____



GENERAL SITE NOTES

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2. ORIGINAL TOPOGRAPHICAL INFORMATION IS BASED ON A SURVEY BY MCKIM & CREED ON 09-28-2016. THE ENGINEER, THE OWNER, OR ANY OF THE OWNER'S CONSULTANTS SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION.
3. ALL CIVIL/SITE WORK ELEMENTS INDICATED TO BE CONSTRUCTED ON THE PLANS ARE TO BE BUILT IN STRICT ACCORDANCE WITH THE STANDARDS ADOPTED BY THE CITY OF WILMINGTON/NEW HANOVER COUNTY, UNLESS SPECIFICALLY NOTED OTHERWISE. ALL SITE WORK MUST ALSO COMPLY WITH THE CITY OF WILMINGTON/NEW HANOVER COUNTY ENVIRONMENTAL REQUIREMENTS AND FEDERAL EPA REQUIREMENTS.
4. WRITTEN DIMENSIONS PREVAIL. DO NOT SCALE THESE DRAWINGS. PRINTED DIMENSIONS WHICH ARE OMITTED OR IN CONFLICT SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER FOR REVIEW AND RESPONSE. DIMENSIONS ARE FROM FACE OF CURB / EDGE OF PAVEMENT AND FACE OF BUILDING, UNLESS NOTED OTHERWISE.
5. DIMENSIONS LOCATING THE BUILDING IN RELATIONSHIP TO THE PROPERTY LINES HAVE BEEN PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. WHERE POSSIBLE, COORDINATES CAN BE USED TO ESTABLISH PHYSICAL LENGTHS ALONG THE BUILDING PERIMETER. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING FROM STRUCTURAL AND ARCHITECTURAL DRAWINGS THE ACTUAL EXTENT OF THE BUILDING ON THE PROPERTY. BUILDING LAYOUT SHALL BE BASED SOLELY ON DIMENSIONAL INFORMATION PROVIDED ON STRUCTURAL AND ARCHITECTURAL DRAWINGS. DISCREPANCIES WHICH IMPACT SITE LAYOUT SHOULD BE IMMEDIATELY REPORTED TO THE ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL SITE FEATURES, (BUILDINGS, ROADS, PARKING, PADS, WALKS, ETC.) AND WILL EMPLOY A LAND SURVEYOR LICENSED TO PRACTICE IN THE PROJECT'S REGION OF CONSTRUCTION TO STAKE OUT AND MAINTAIN ALL REQUIRED CONTROL POINTS THROUGHOUT THE LIFE OF THE PROJECT. THE SURVEYOR SHALL CERTIFY TO THE ENGINEER, IN WRITING, THAT THE LAYOUT IN THE FIELD SUBSTANTIALLY CONFORMS TO THE LAYOUT INDICATED ON THE CONTRACT DOCUMENTS. LAYOUT DISCREPANCIES OR CHANGES SHOULD BE SO NOTED TO THE ENGINEER.
7. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE DAMAGE OR LOSS OF ANY REFERENCE POINTS, MONUMENTS, HUBS, AND STAKED LOT CORNERS DURING THE CONSTRUCTION OF THE WORK AND SHALL BEAR ANY COST ASSOCIATED WITH REPAIR.
8. THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, AND PAY ALL PERMIT FEES. THE CONTRACTOR SHALL CONFORM TO ALL STATE AND LOCAL CODES AND ORDINANCES AND RECEIVE APPROPRIATE APPROVALS WHERE REQUIRED PRIOR TO COMMENCEMENT OF THE WORK.
9. MATERIALS AND PROCESSES OF CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. WHILE THE ENGINEER HAS PROVIDED, FOR THE CONVENIENCE OF THE CONTRACTOR, DRAWINGS OUTLINING CERTAIN REQUIRED OSHA MINIMUM SAFETY PRACTICES, THE ENGINEER DOES NOT ACCEPT RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION OR FOR VERIFYING THAT SUCH MEASURES ARE IMPLEMENTED ON SITE. MAINTAINING A SAFE ENVIRONMENT DURING THE PROMULGATION OF THE WORK IS THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER, THE OWNER AND OTHER CONSULTANTS, HAVE NO EXPERTISE, NOR ACCEPT ANY LIABILITY, IMPLIED OR OTHERWISE, FOR MATERIALS AND PROCESSES OF CONSTRUCTION.
10. THE CONTRACTOR SHALL NOT COMMENCE ANY WORK WHICH IS NOT UNDER THE CONTROL OR OWNERSHIP OF THE OWNER WITHOUT WRITTEN PERMISSION FROM THE PROPERTY'S OWNER OR CONTROLLING INTEREST. WHERE CONTROLLING INTEREST IS A LOCAL, STATE, OR FEDERAL AGENCY, THEN APPROVAL FOR CONSTRUCTION SHALL CONSTITUTE AUTHORITY TO COMMENCE WORK.
11. WHERE NOT SPECIFICALLY NOTED OTHERWISE, ALL CONCRETE FINISHES SHALL BE SLIP RESISTANT PER TECHNICAL SPECIFICATIONS.
12. ALL ACCESSIBLE PARKING SPACES, INDICATED WITH THE GRAPHIC ACCESSIBLE SYMBOL, DENOTE ACCESSIBLE PARKING SPACES. THESE SPACES ARE DESIGNED TO CONFORM TO ADA AND NORTH CAROLINA ACCESSIBILITY STANDARD SPECIFICATIONS. ALL INDICATED SPACES SHALL RECEIVE THE PAINTED SYMBOL AND APPROPRIATE IDENTIFICATION SIGNAGE. WHERE REQUIREMENTS ARE DIFFERENT OR IN EXCESS OF THESE, THE CONTRACTOR WILL ALLOW FOR THOSE ADDITIONAL REQUIREMENTS IN HIS PRICE AND PROMPTLY SUBMIT THEM TO THE ENGINEER.
13. THE CONTRACTOR IS RESPONSIBLE FOR USING THE ONE-CALL SYSTEM OR OTHER MEANS TO CONTACT AND VERIFY LOCATIONS OF ALL UTILITIES. THE CONTRACTOR IS FULLY RESPONSIBLE FOR REPAIRS TO DAMAGED UTILITIES.
14. THE CONTRACTOR IS TO CONTROL TRAFFIC FLOW DURING TIME OF CONSTRUCTION. ANY AND ALL TRAFFIC CONTROL IMPLEMENTED DURING THIS PROJECT SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
15. ALL WORK WITHIN PUBLIC RIGHT-OF-WAY MUST BE IN ACCORDANCE WITH CITY OF WILMINGTON/NEW HANOVER COUNTY AND NC D.O.T. REGULATIONS.

SITE NOTES

- A MILL 1.5" AND RESURFACE DRIVES PER CITY STANDARDS UPON COMPLETION OF ALL CONSTRUCTION.

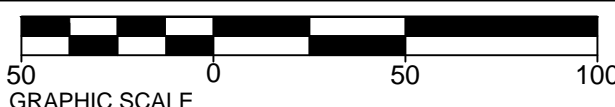
LEGEND: SITE

- PROPOSED HC ACCESSIBLE PARKING SPACE (SEE SITE DETAIL)
- LINEAR DIMENSION
- PROPOSED CURVE RADIUS DIMENSION
- PROPOSED SIGN
- PROPOSED PRECAST WHEEL STOP
- PROPOSED TRAFFIC ARROW (SEE SITE DETAIL)
- PROPOSED STOP BAR (SEE SITE DETAIL)
- PROPOSED CROSS WALK MARKING
- PROPOSED HEAVY DUTY ASPHALT PAVEMENT
- PROPOSED HEAVY DUTY CONCRETE PAVEMENT
- PROPOSED PERVIOUS CONCRETE

CURVE TABLE

C"X" CURVE WITH RADIUS OF "X" FEET

SITE PLAN



JJC A

New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC

ACADIA
HEALTHCARE



Cumulative Sheet Re-issue

May 8, 2017

(Individual revisions clouded and labeled within sheet)

INGRAM CIVIL ENGINEERING GROUP, LLC
212 OVERLOOK CIRCLE, STE. 105
BENTWOOD, TENNESSEE 37027
615.370.7964 OFFICE
615.370.1273 FAX
STATE OF NORTH CAROLINA
PROFESSIONAL ENGINEER
LICENSE # 027243
CURTIS P. INGRAM

PROJECT NUMBER

15678.01

DATE

January 13, 2017

C200
SITE PLAN
OVERALL

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.



Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

Signed: _____



Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

Fire _____

CURVE TABLE

C"X" CURVE WITH RADIUS OF "X" FEET

LEGEND: SITE

	PROPOSED HC ACCESSIBLE PARKING SPACE (SEE SITE DETAIL)
	LINEAR DIMENSION
	PROPOSED CURVE RADIUS DIMENSION
	PROPOSED SIGN
	PROPOSED PRECAST WHEEL STOP
	PROPOSED TRAFFIC ARROW (SEE SITE DETAIL)
	PROPOSED STOP BAR (SEE SITE DETAIL)
	PROPOSED CROSS WALK MARKING
	PROPOSED HEAVY DUTY ASPHALT PAVEMENT
	PROPOSED LIGHT DUTY ASPHALT PAVEMENT
	PROPOSED HEAVY DUTY CONCRETE PAVEMENT
	PROPOSED PERVIOUS CONCRETE
	MILL AND RESURFACE
	EASEMENT

ZIP NO 143, LLC
DB 5231 PG 102
MB 50 PG 394
PIN# 3126-18-22-8381

ZIP NO 143, LLC
DB 5231 PG 102
MB 50 PG 394
PIN# 3126-18-22-8381

ZIP NO 143, LLC
DB 5231 PG 102
MB 50 PG 394
PIN# 3126-18-22-8381

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ZIP NO 143, LLC
DB 5231 PG 102
MB 50 PG 394
PIN# 3126-18-22-8381

2
3
TO BE PERFORMED
ON ALL CONCRETE

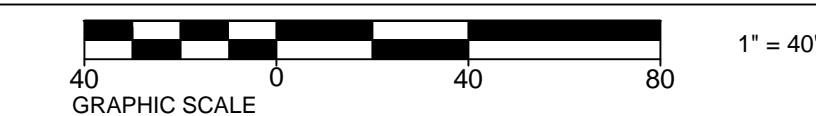
GENERAL SITE NOTES

1. SITE LAYOUT FOR WILMINGTON TREATMENT CENTER SITE NO. 2 BY INGRAM CIVIL ENGINEERING GROUP, LLC, BASED ON SITE SURVEY BY MCKIM & CREED ON 09-28-2016.
2. ORIGINAL TOPOGRAPHICAL INFORMATION IS BASED ON A SURVEY BY MCKIM & CREED ON 09-28-2016. THE ENGINEER, THE OWNER, OR ANY OF THE OWNER'S CONSULTANTS SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION.
3. ALL CIVIL/SITE WORK ELEMENTS INDICATED TO BE CONSTRUCTED ON THE PLANS ARE TO BE BUILT IN STRICT ACCORDANCE WITH THE STANDARDS ADOPTED BY THE CITY OF WILMINGTON/NEW HANOVER COUNTY, UNLESS SPECIFICALLY NOTED OTHERWISE. ALL SITE WORK MUST ALSO COMPLY WITH THE CITY OF WILMINGTON/NEW HANOVER COUNTY ENVIRONMENTAL REQUIREMENTS AND FEDERAL EPA REQUIREMENTS.
4. WRITTEN DIMENSIONS PREVAIL. DO NOT SCALE THESE DRAWINGS. PRINTED DIMENSIONS WHICH ARE OMITTED OR IN CONFLICT SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER FOR REVIEW AND RESPONSE. DIMENSIONS ARE FROM FACE OF CURB / EDGE OF PAVEMENT AND FACE OF BUILDING, UNLESS NOTED OTHERWISE.
5. DIMENSIONS LOCATING THE BUILDING IN RELATIONSHIP TO THE PROPERTY LINES HAVE BEEN PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. WHERE POSSIBLE, COORDINATES CAN BE USED TO ESTABLISH PHYSICAL LENGTHS ALONG THE BUILDING PERIMETER. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING FROM STRUCTURAL AND ARCHITECTURAL DRAWINGS THE ACTUAL EXTENT OF THE BUILDING ON THE PROPERTY. BUILDING LAYOUT SHALL CONFORM TO THE DIMENSIONAL INFORMATION PROVIDED ON STRUCTURAL AND ARCHITECTURAL DRAWINGS. DISCREPANCIES WHICH IMPACT SITE LAYOUT SHOULD BE IMMEDIATELY REPORTED TO THE ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL SITE FEATURES, (BUILDINGS, ROADS, PARKING, PADS, WALKS, ETC.) AND WILL EMPLOY A LAND SURVEYOR LICENSED TO PRACTICE IN THE PROJECT'S REGION OF CONSTRUCTION TO STAKE OUT AND MAINTAIN ALL REQUIRED CONTROL POINTS THROUGHOUT THE LIFE OF THE PROJECT. THE SURVEYOR SHALL CERTIFY TO THE ENGINEER, IN WRITING, THAT THE LAYOUT IN THE FIELD SUBSTANTIALLY CONFORMS TO THE LAYOUT INDICATED ON THE CONTRACT DOCUMENTS. LAYOUT DISCREPANCIES OR CHANGES SHOULD BE SO NOTED TO THE ENGINEER.
7. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE DAMAGE OR LOSS OF ANY REFERENCE POINTS, MONUMENTS, HUBS, AND STAKED LOT CORNERS DURING THE CONSTRUCTION OF THE WORK AND SHALL BEAR ANY COST ASSOCIATED WITH REPAIR.
8. THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, AND PAY ALL PERMIT FEES. THE CONTRACTOR SHALL CONFORM TO ALL STATE AND LOCAL CODES AND ORDINANCES AND RECEIVE APPROPRIATE APPROVALS WHERE REQUIRED PRIOR TO COMMENCEMENT OF THE WORK.
9. MATERIALS AND PROCESSES OF CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. WHILE THE ENGINEER HAS PROVIDED, FOR THE CONVENIENCE OF THE CONTRACTOR, DRAWINGS OUTLINING CERTAIN REQUIRED OSHA MINIMUM SAFETY PRACTICES, THE ENGINEER DOES NOT ACCEPT RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION OR FOR VERIFYING THAT SUCH MEASURES ARE IMPLEMENTED ON SITE. MAINTAINING A SAFE ENVIRONMENT DURING THE PROMULGATION OF THE WORK IS THE RESPONSIBILITY OF THE CONTRACTOR, THE ENGINEER, THE OWNER AND OTHER CONSULTANTS. HAVE NO EXPERTISE, NOR ACCEPT ANY LIABILITY, IMPLIED OR OTHERWISE, FOR MATERIALS AND PROCESSES OF CONSTRUCTION.
10. THE CONTRACTOR SHALL NOT COMMENCE ANY WORK WHICH IS NOT UNDER THE CONTROL OR OWNERSHIP OF THE OWNER WITHOUT WRITTEN PERMISSION FROM THE PROPERTY'S OWNER OR CONTROLLING INTEREST. WHERE CONTROLLING INTEREST IS A LOCAL, STATE, OR FEDERAL AGENCY, THEN APPROVAL FOR CONSTRUCTION SHALL CONSTITUTE AUTHORITY TO COMMENCE WORK.
11. WHERE NOT SPECIFICALLY NOTED OTHERWISE, ALL CONCRETE FINISHES SHALL BE SLIP RESISTANT PER TECHNICAL SPECIFICATIONS.
12. ALL ACCESSIBLE PARKING SPACES, INDICATED WITH THE GRAPHIC ACCESSIBLE SYMBOL, DENOTE ACCESSIBLE PARKING SPACES. THESE SPACES ARE DESIGNED TO CONFORM TO ADA AND NORTH CAROLINA ACCESSIBILITY STANDARD SPECIFICATIONS. ALL INDICATED SPACES SHALL RECEIVE THE PAINTED SYMBOL AND APPROPRIATE IDENTIFICATION SIGNAGE. WHERE REQUIREMENTS ARE DIFFERENT OR IN EXCESS OF THESE, THE CONTRACTOR SHALL ALLOW FOR THOSE ADDITIONAL REQUIREMENTS IN HIS PRICE AND PROMPTLY SUBMIT THEM TO THE ENGINEER.
13. THE CONTRACTOR IS RESPONSIBLE FOR USING THE ONE-CALL SYSTEM OR OTHER MEANS TO CONTACT AND VERIFY LOCATIONS OF ALL UTILITIES. THE CONTRACTOR IS FULLY RESPONSIBLE FOR REPAIRS TO DAMAGED UTILITIES.
14. THE CONTRACTOR IS TO CONTROL TRAFFIC FLOW DURING TIME OF CONSTRUCTION. ANY AND ALL TRAFFIC CONTROL IMPLEMENTED DURING THIS PROJECT SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
15. ALL WORK WITHIN PUBLIC RIGHT-OF-WAY MUST BE IN ACCORDANCE WITH CITY OF WILMINGTON/NEW HANOVER COUNTY AND NC D.O.T. REGULATIONS.
16. All pavement markings in public right-of-ways and for driveways are to be thermoplastic and meet City and/or NCDOT standards.
17. All signs and pavement markings in areas open to public traffic are to meet MUTCD (Manual on Uniform Traffic Control Devices) standards.
18. All traffic control signs and markings off the right-of-ways are to be maintained by the property owner in accordance with MUTCD standards.
19. All parking stall markings and lane arrows within the parking areas shall be white.
20. A utility cut permit is required for each open city of a City street. Note this on the plan and contact 341-5888 for more details. In certain cases an entire resurfacing of the area being open city may be required.
21. Any broken or missing sidewalk panels, driveway panels and curbing will be replaced.
22. Contact Traffic Engineering at 341-7888 forty-eight hours prior to any excavation in the right of way.

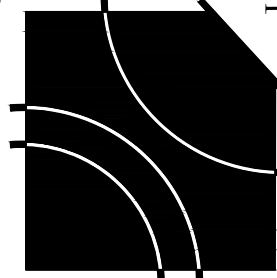
SITE NOTES

- A 20'x6' GENERATOR PAD WITH FENCE. COORDINATE FINAL SIZE AND SECTION WITH MANUFACTURER'S SPECIFICATIONS.
- B GATE KEYPAD/CARD READER IN CONCRETE ISLAND
- C COMPACTOR PAD WITH ENCLOSURE.
- D 6' HIGH BY 30' WIDE AUTOMATED CANTILEVER GATE. COORDINATE WITH ELECTRICAL.
- E 6' HIGH BY 15' WIDE AUTOMATED DOUBLE LEAF SWING GATE WITH 6' WIDE GAP. COORDINATE WITH ELECTRICAL.
- F 6' HIGH BY 4' WIDE SINGLE LEAF SWING GATE. COORDINATE WITH ELECTRICAL.
- G 6' HIGH IMPASSE II FENCE.
- H 6' HIGH FENCE BETWEEN SWING GATE OPENING. MATCH SWING GATE STYLE.
- I SENSOR FOR GATE. COORDINATE WITH ELECTRICAL PLANS.
- J ML 1.5' AND RESURFACE DRIVE ENTRANCES TO THE SITE.
- K SEE LANDSCAPE PLANS FOR MORE PAVEMENT INFORMATION IN THIS AREA.
- L 8'x8' TRANSFORMER PAD. COORDINATE FINAL SIZE AND SECTION WITH MANUFACTURER'S SPECIFICATIONS.
- M BOLLARD. SEE ARCHITECTURAL FOR DETAIL.
- N 3.5'x3.5' CONDENSER PAD. COORDINATE FINAL SIZE AND SECTION WITH MANUFACTURER'S SPECIFICATIONS.
- O 3'x3' CONDENSER PAD. COORDINATE FINAL SIZE AND SECTION WITH MANUFACTURER'S SPECIFICATIONS.
- P ENTRANCE SIGN. COORDINATE WITH ARCHITECTURAL PLANS.

SITE PLAN



JJCA

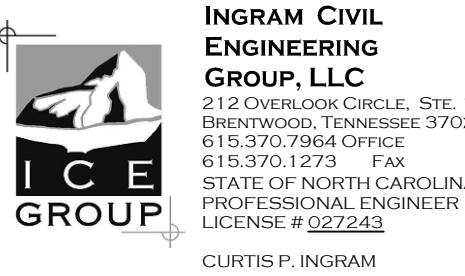


New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC



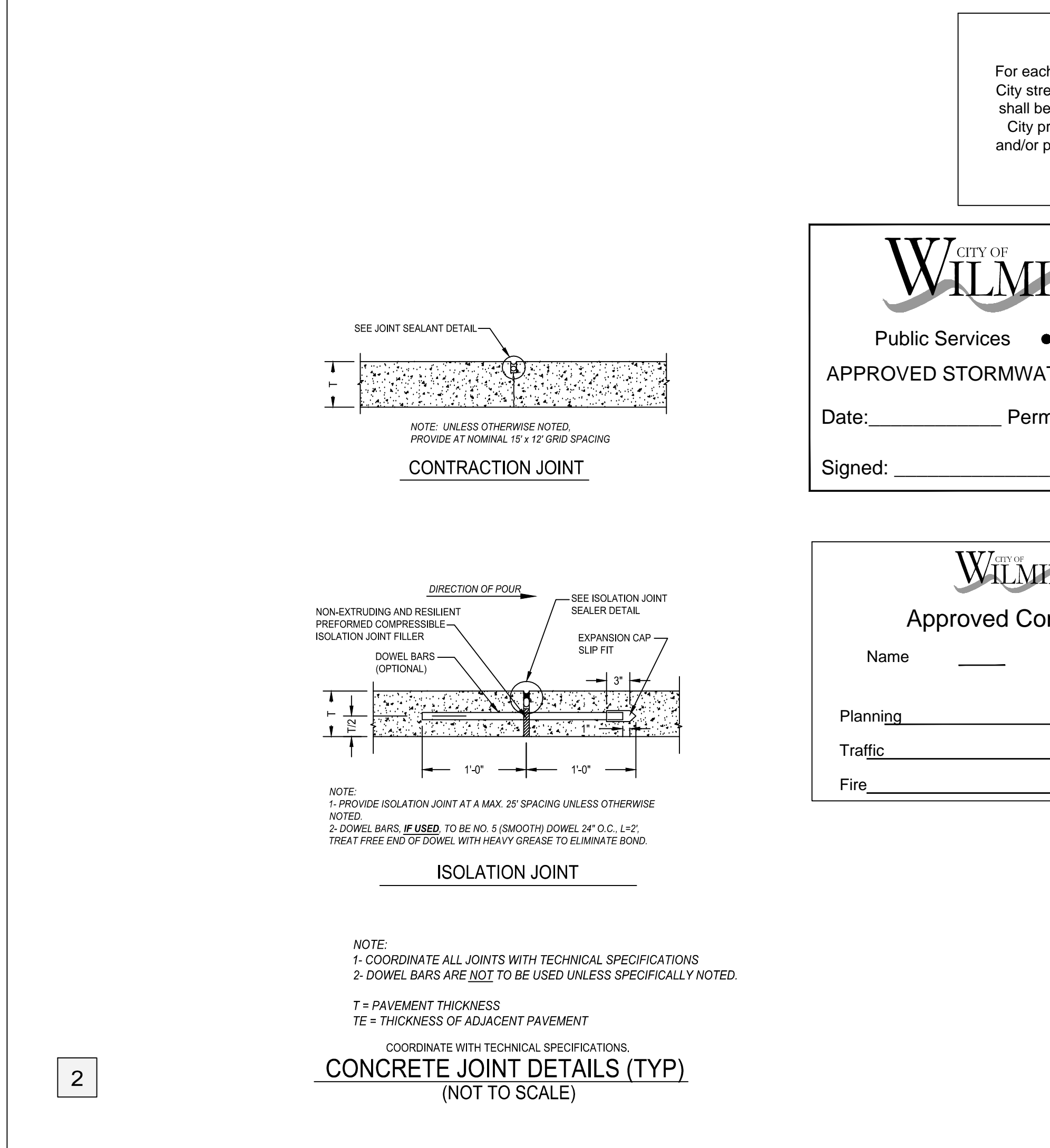
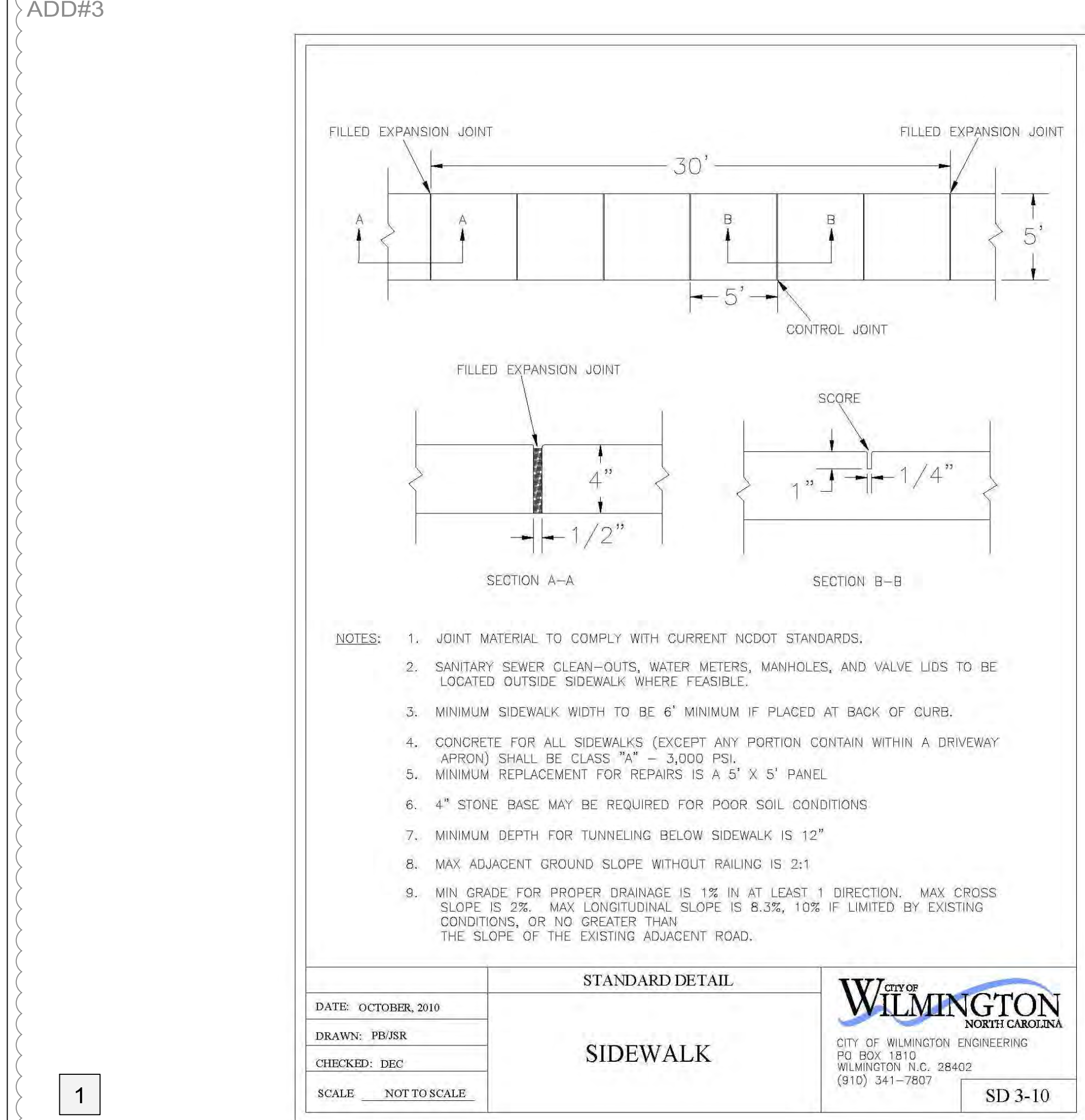
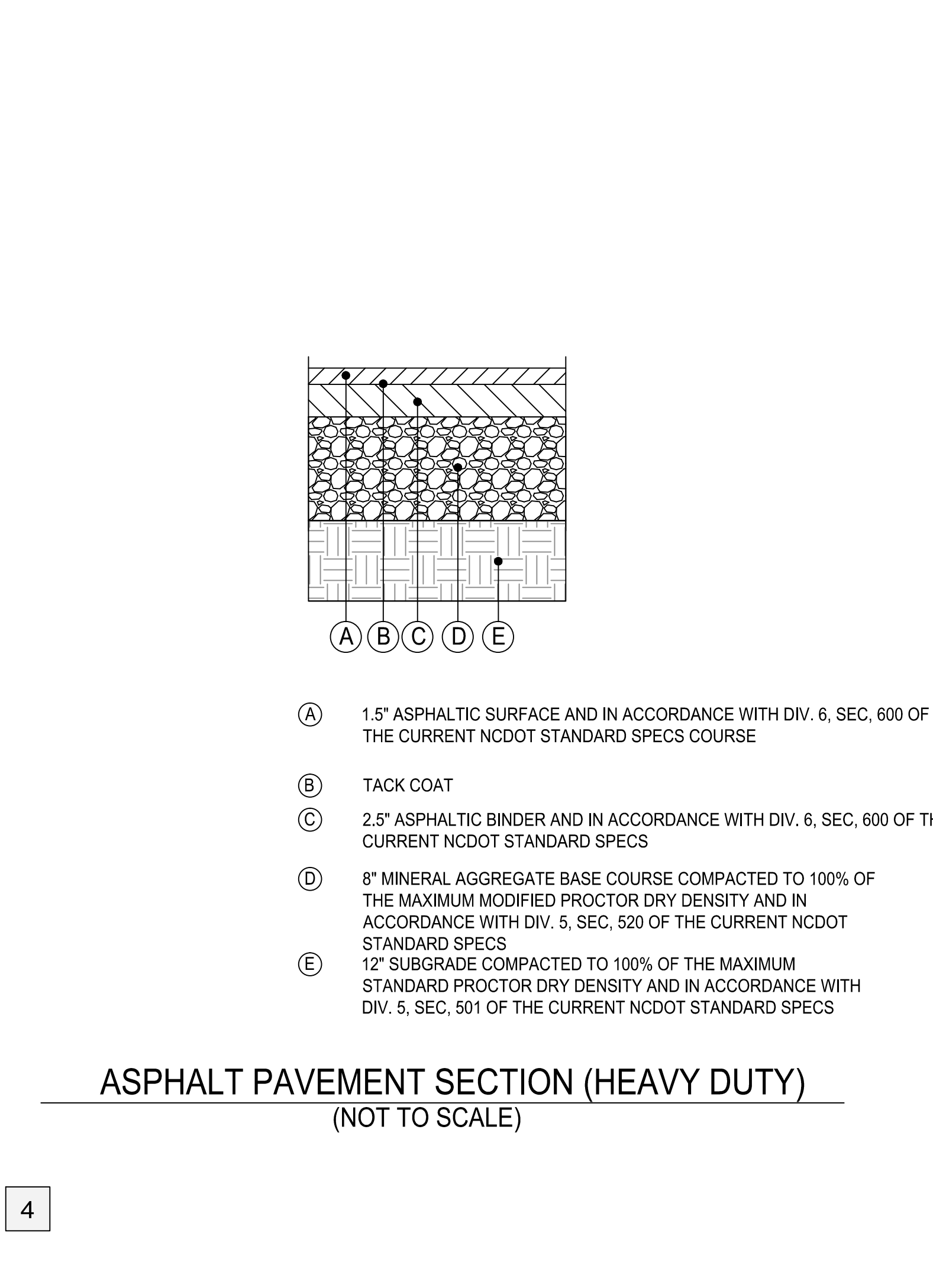
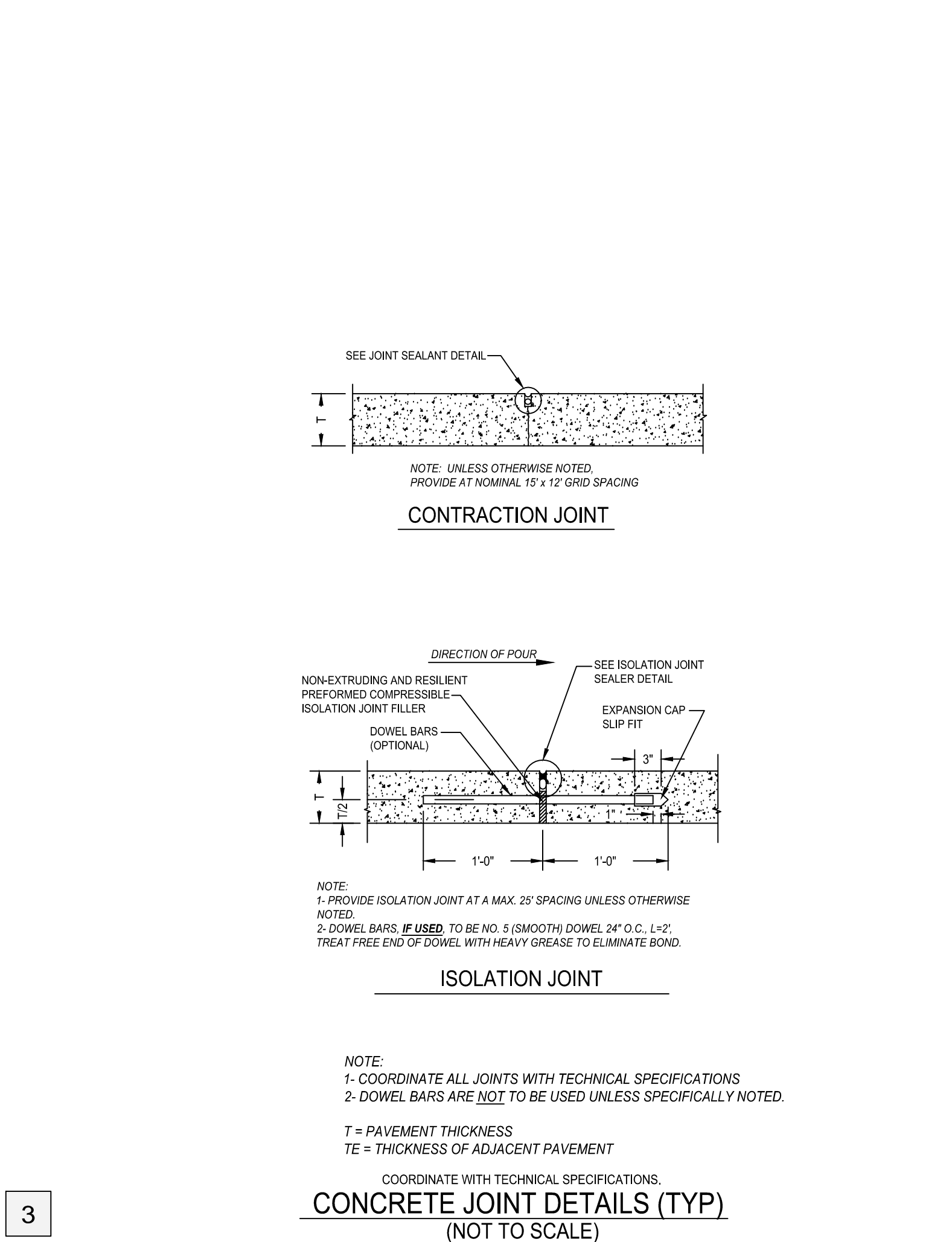
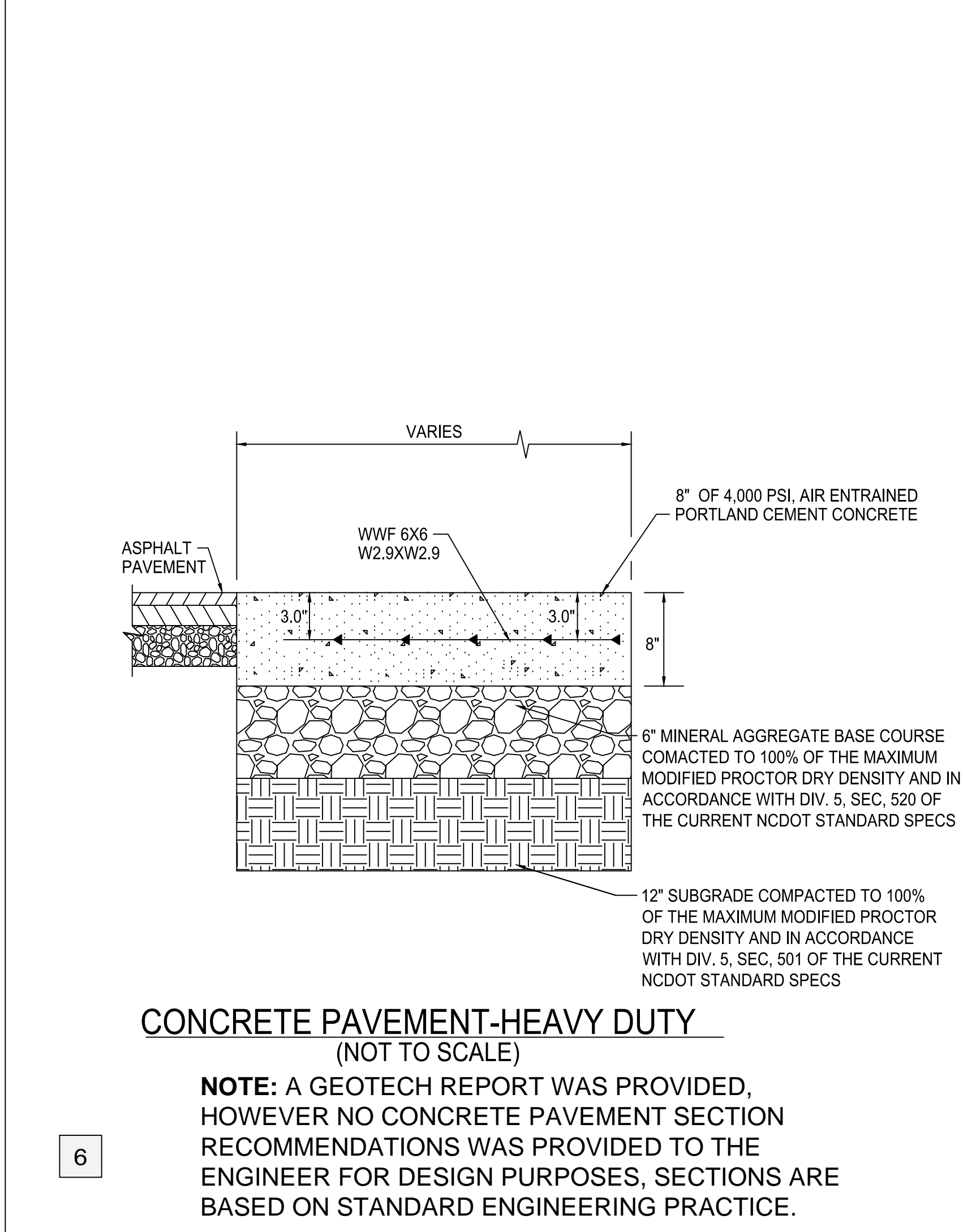
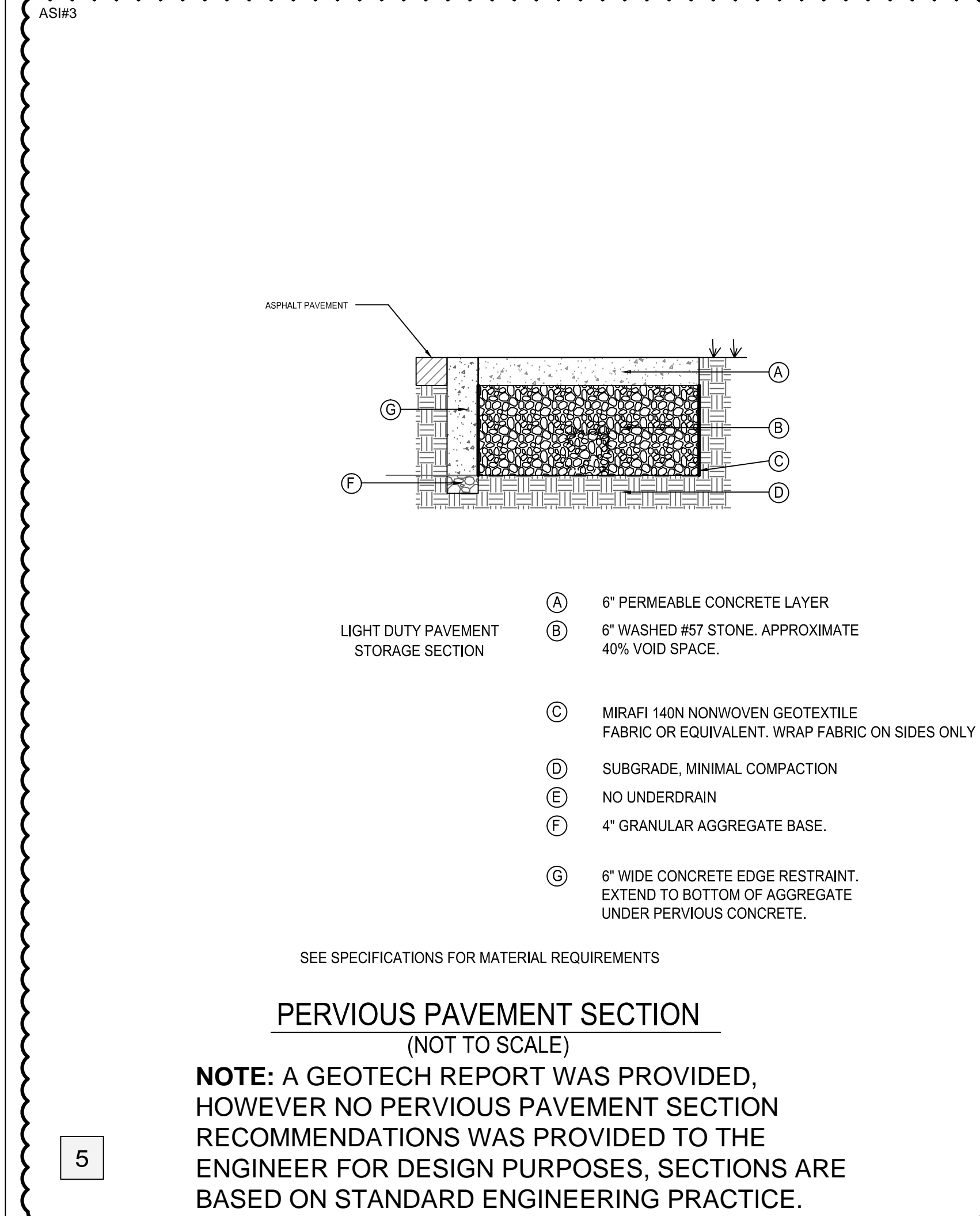
Cumulative Sheet Re-issue
May 8, 2017

(Individual revisions clouded and labeled within sheet)



PROJECT NUMBER
15678.01
DATE
January 13, 2017

C201
SITE PLAN



JJC A

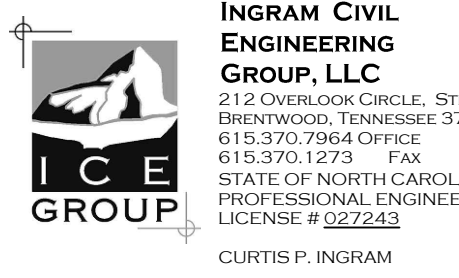
New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC

Johnson Johnson
Crabtree Architects PC
4551 Trousdale Drive
Nashville, TN 37204
tel 615.837.0656
fax 615.837.0657

ACADIA
HEALTHCARE

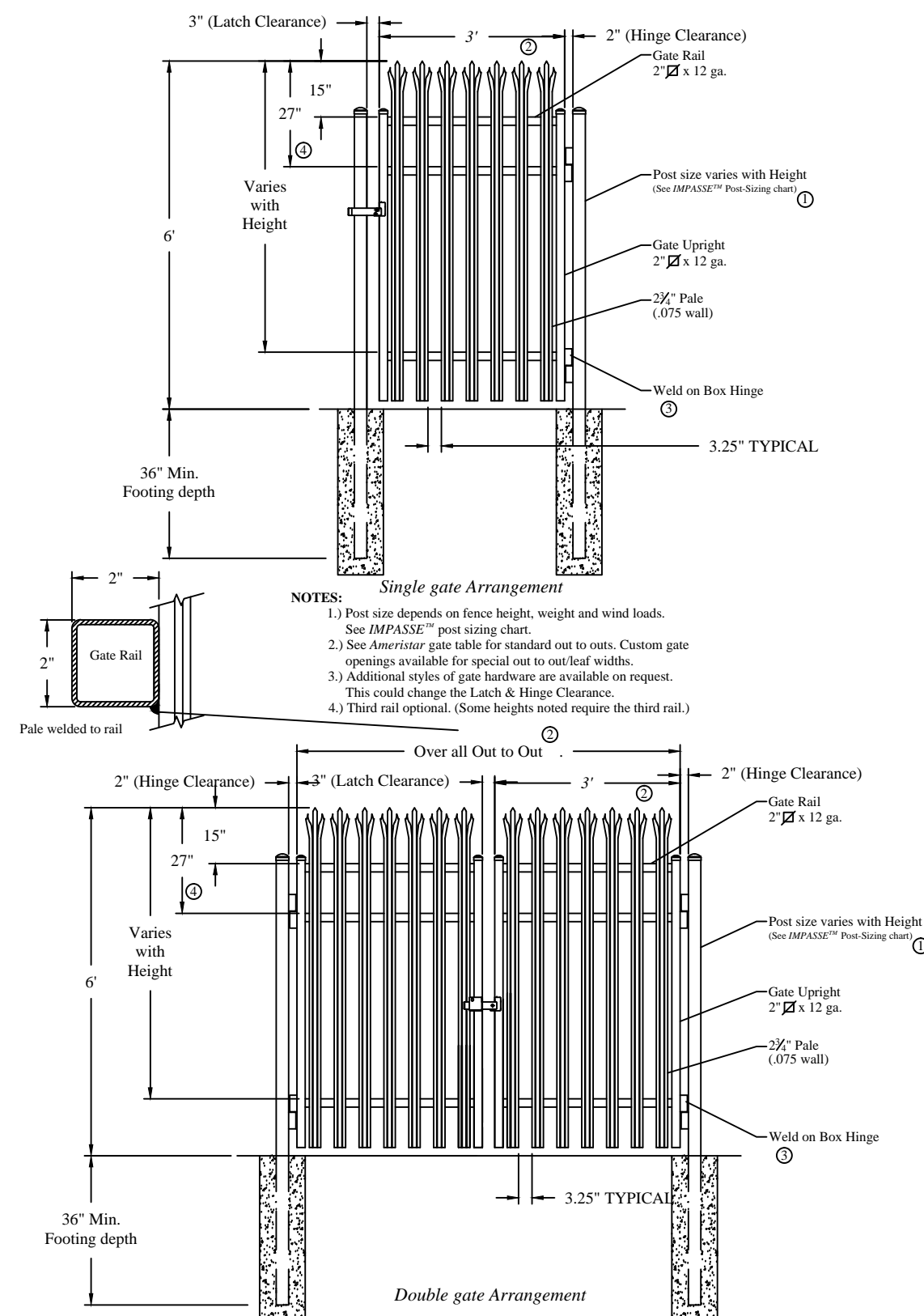


Cumulative Sheet Re-issue
May 8, 2017
(Individual revisions clouded and labeled within sheet)

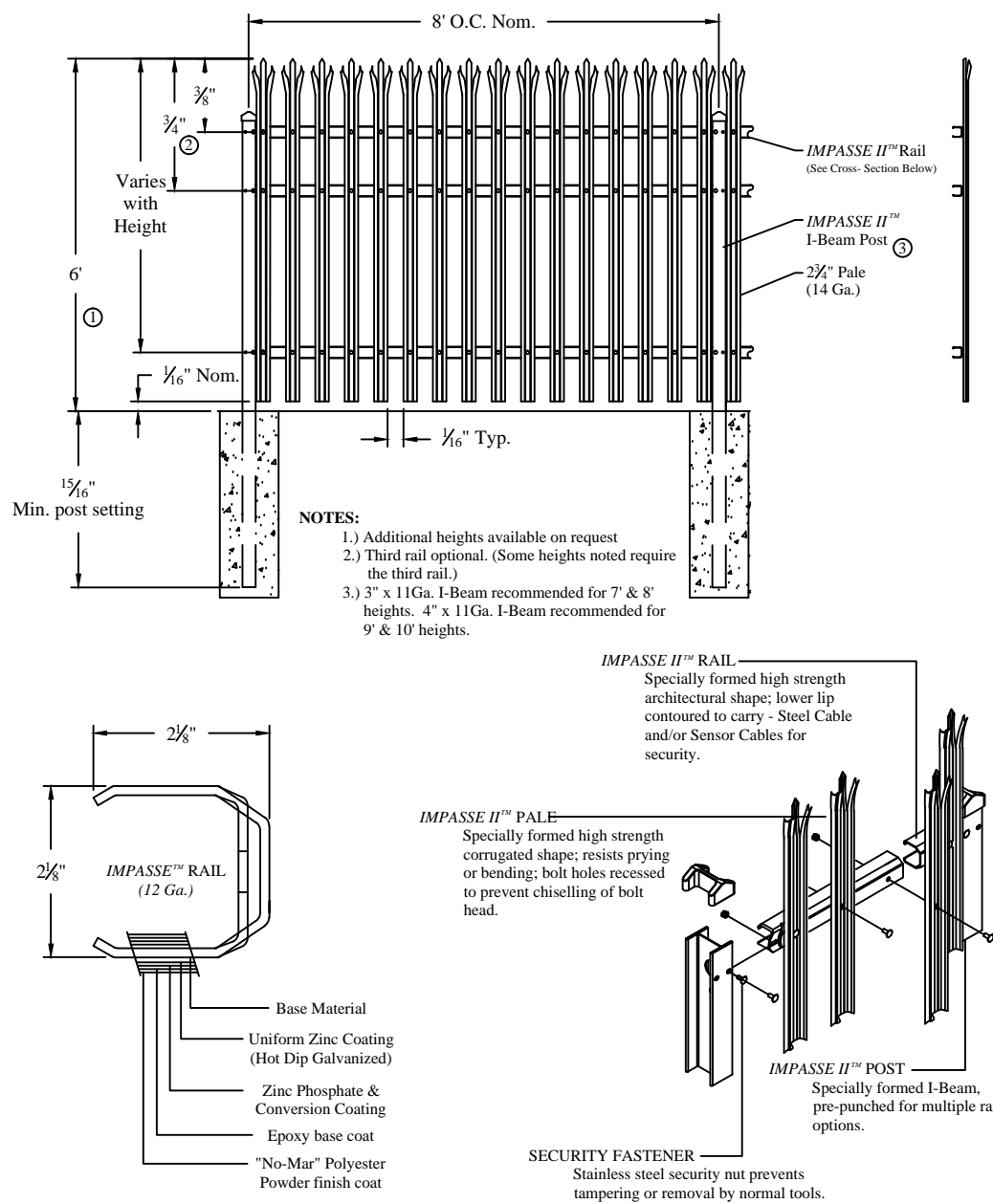


PROJECT NUMBER
15678.01
DATE
January 13, 2017

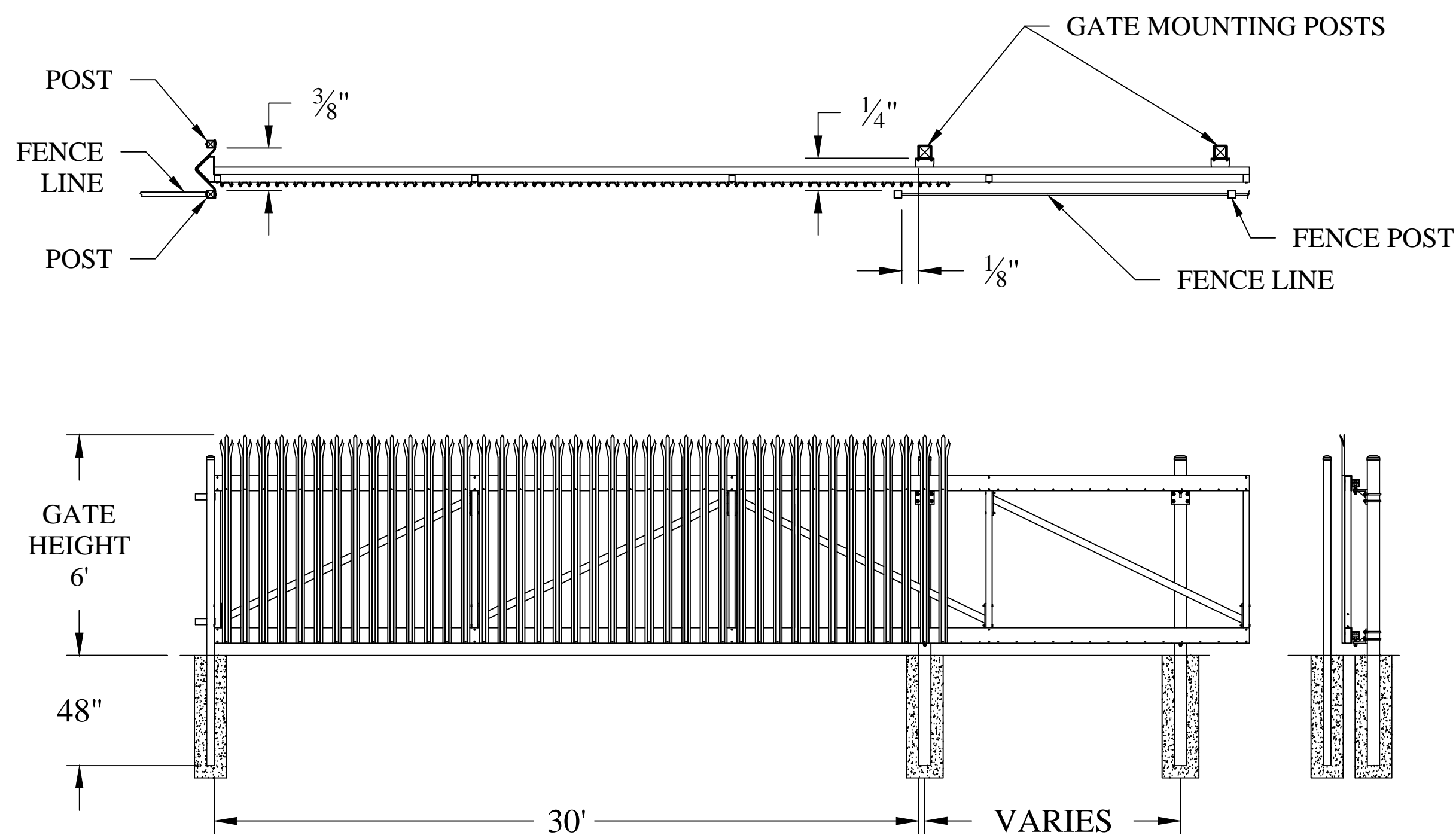
C210
SITE
DETAILS



IMPASSE II GATE (SINGLE AND DOUBLE LEAF)



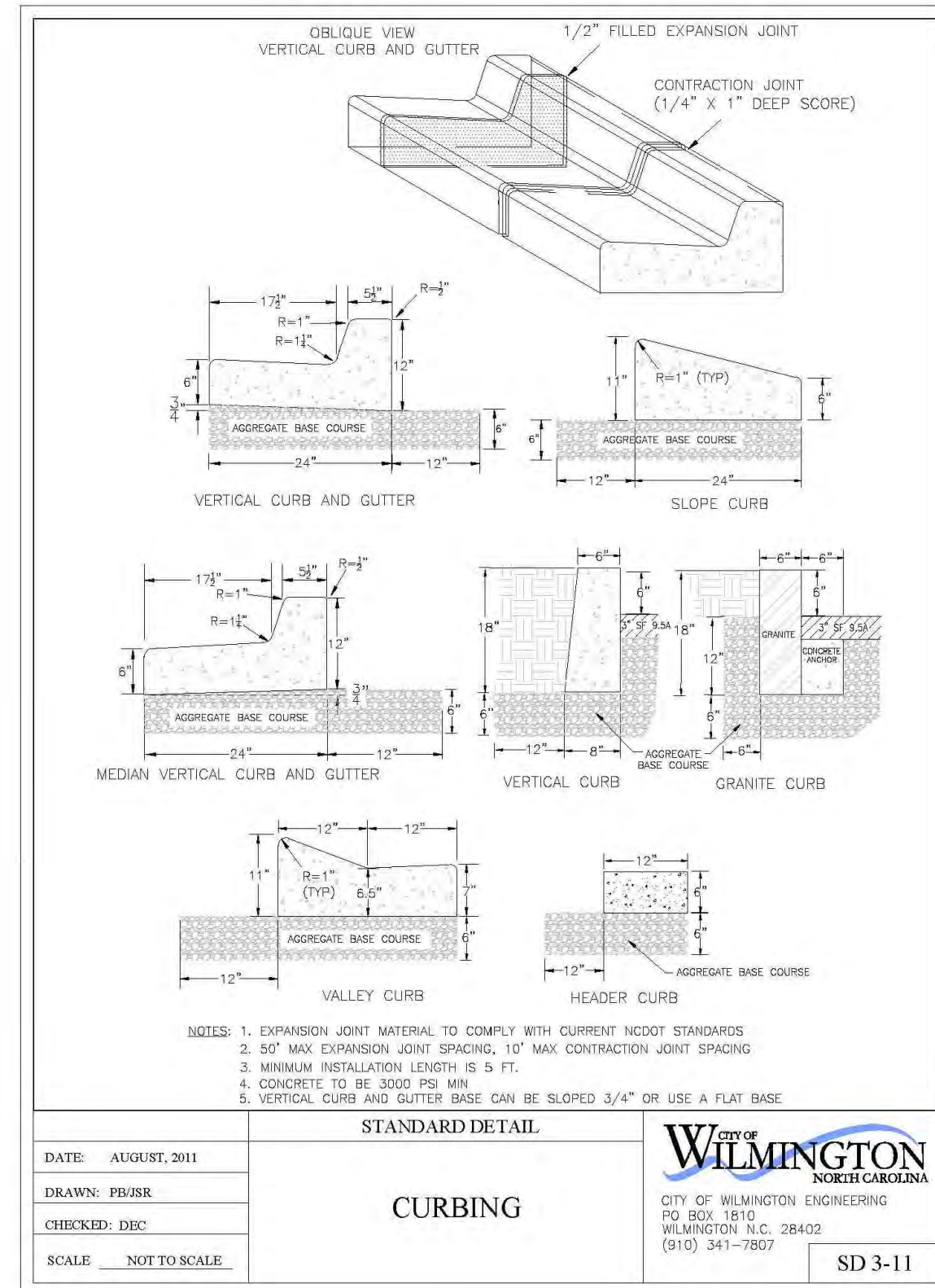
IMPASSE II FENCE



*PROVIDE MOTORIZED GATE OPERATOR

TRANSPORT II CANTILEVER GATE WITH TRIDENT TOP

ADD#3



STANDARD DETAIL

CURBING

CITY OF WILMINGTON
NORTH CAROLINA
CITY OF WILMINGTON ENGINEERING
P.O. BOX 1510
WILMINGTON, N.C. 28402
(910) 341-7957

SD 3-11

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

CITY OF WILMINGTON
NORTH CAROLINA

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: Permit #

Signed:

CITY OF WILMINGTON
NORTH CAROLINA

Approved Construction Plan

Name Date

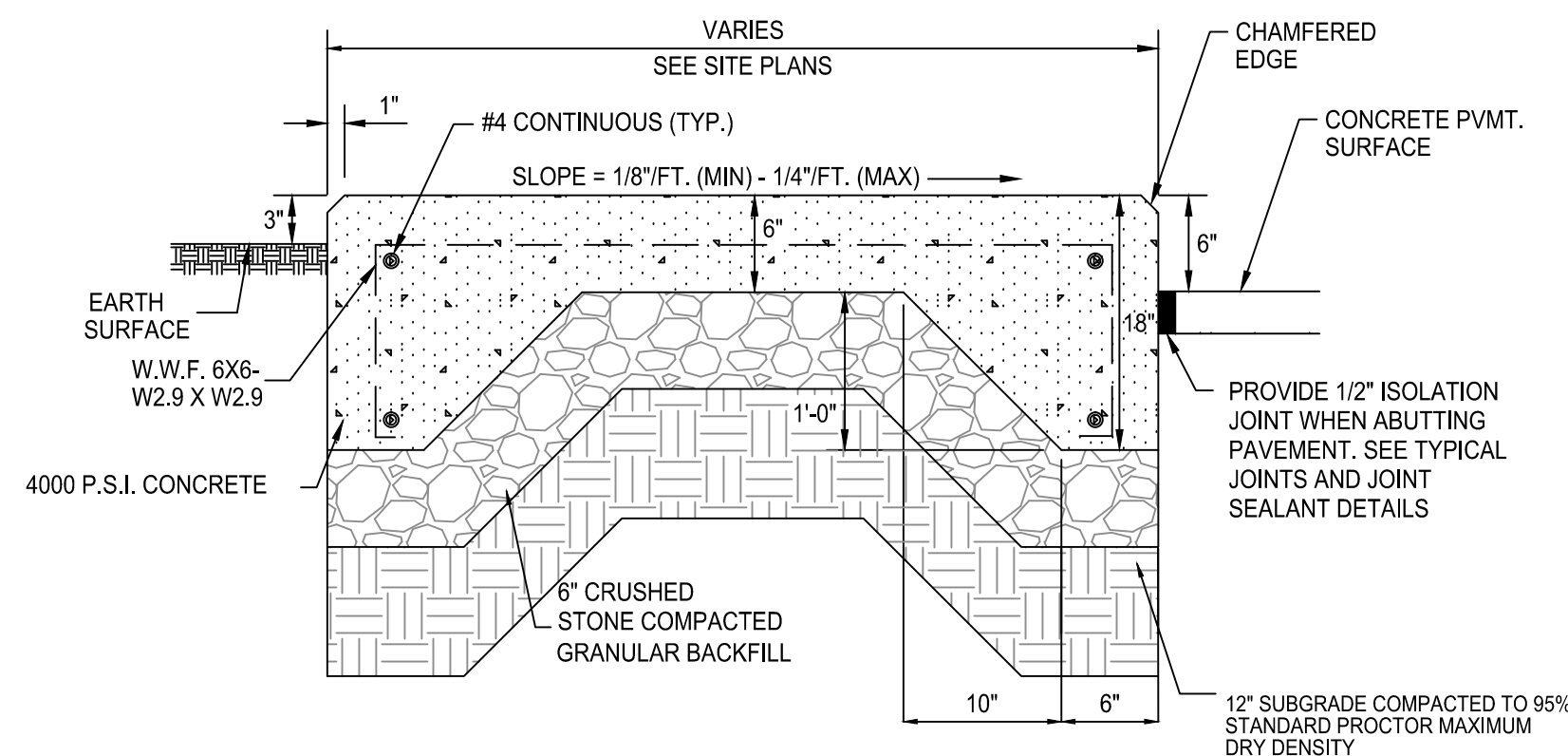
Planning

Traffic

Fire

7

8



COORDINATE WITH TECHNICAL SPECIFICATIONS AND GEOTECHNICAL REPORT.

CONCRETE UTILITY PAD
(NOT TO SCALE)

NOTE: A GEOTECH REPORT WAS PROVIDED, HOWEVER NO CONCRETE PAD SECTION RECOMMENDATIONS WAS PROVIDED TO THE ENGINEER FOR DESIGN PURPOSES, SECTIONS ARE BASED ON STANDARD ENGINEERING PRACTICE.

JJCA

New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC

ACADIA
HEALTHCARE



Cumulative Sheet Re-issue
May 8, 2017

(Individual revisions clouded and labeled within sheet)

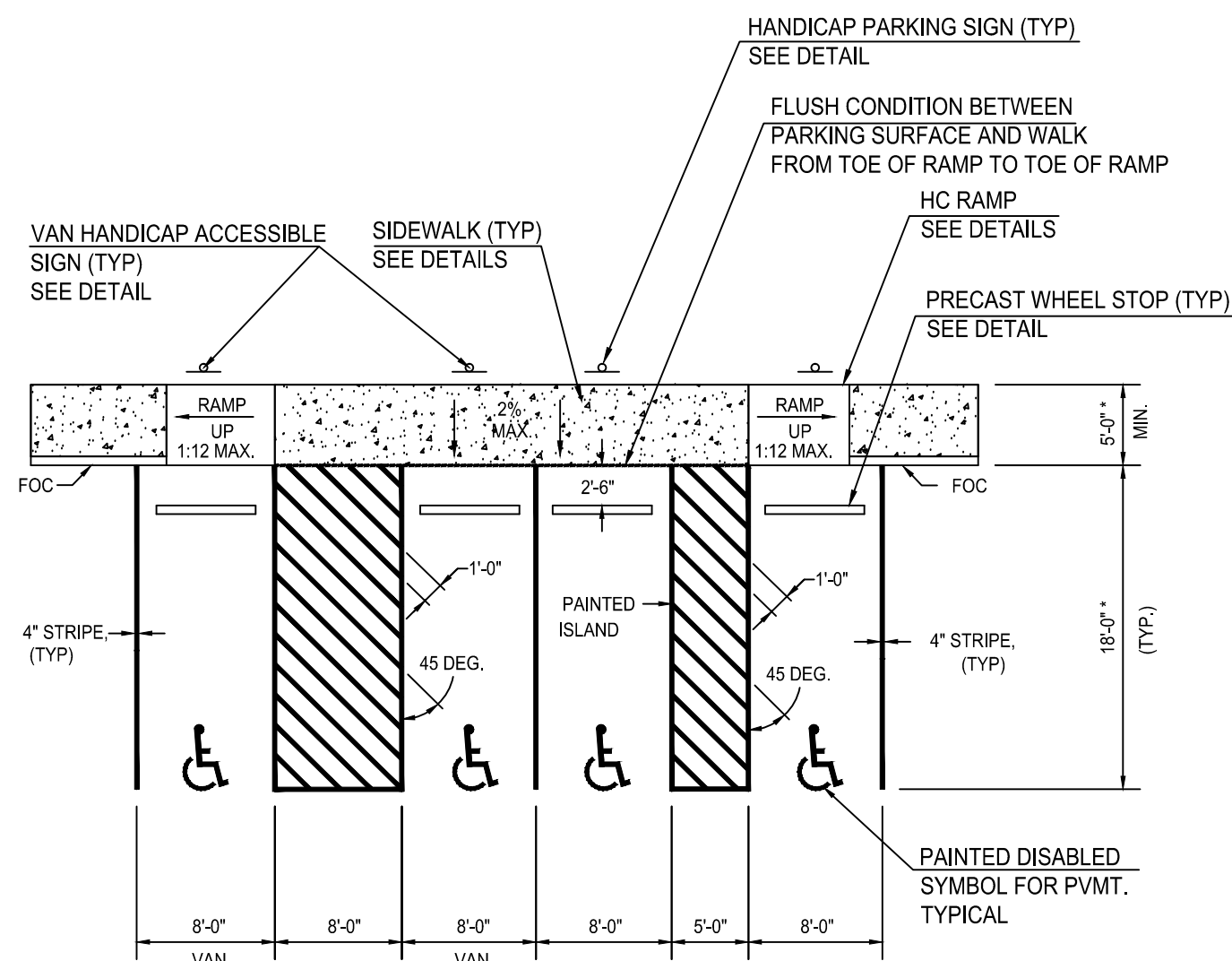
INGRAM CIVIL
ENGINEERING
GROUP, LLC
212 OVERLOOK CIRCLE, STE. 105
BRENTWOOD, TENNESSEE 37027
615.370.7964 OFFICE
615.370.1275 FAX
STATE OF NORTH CAROLINA
PROFESSIONAL ENGINEER
LICENSE # 027243
CURTIS P. INGRAM

PROJECT NUMBER
15678.01
DATE
January 13, 2017

C211
SITE
DETAILS

Johnson Johnson
Crabtree Architects P.C.
4551 Trousdale Drive
Nashville, TN 37204
tel 615.837.0656
fax 615.837.0657

ADD#3



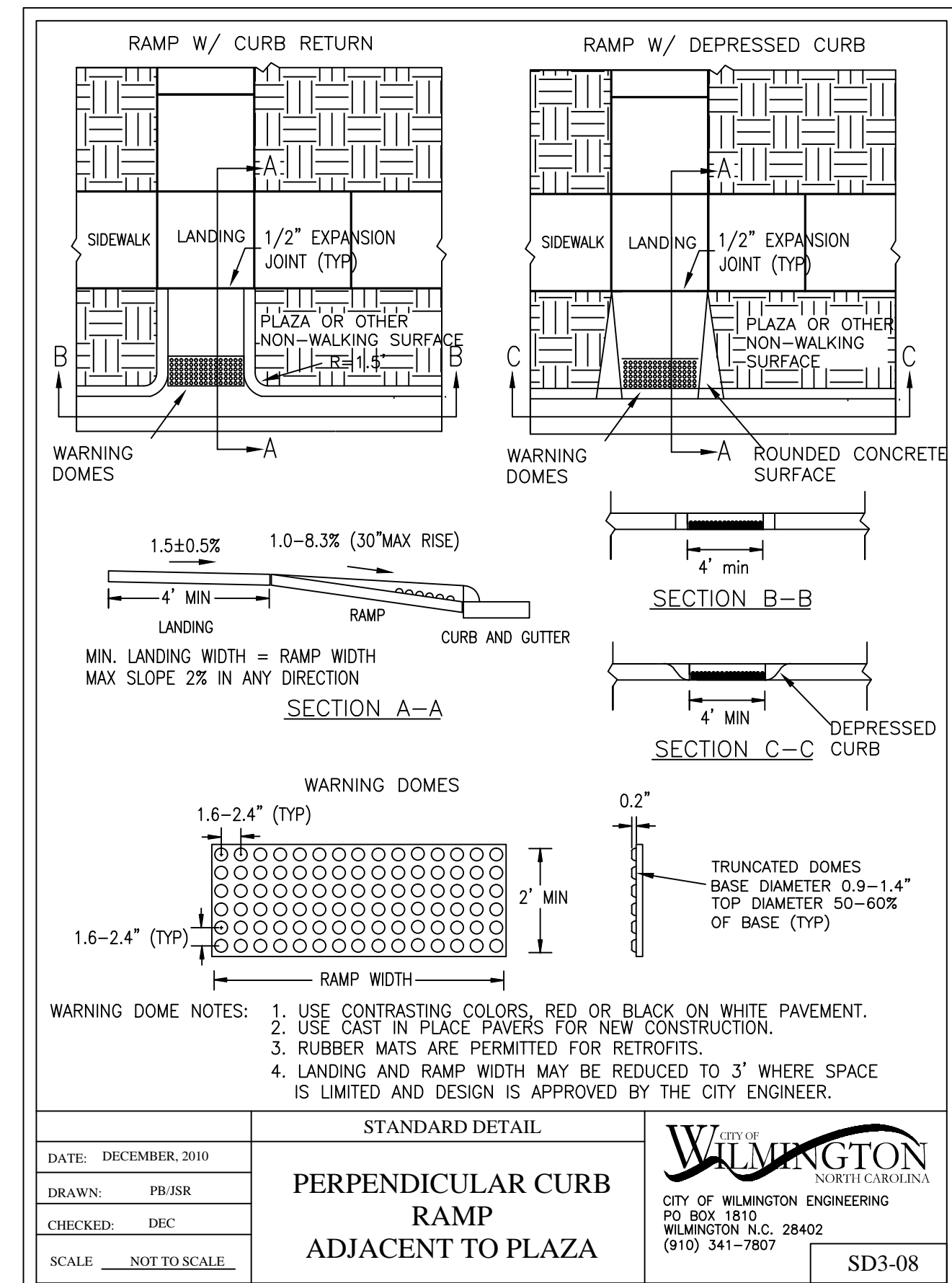
* ALL AREAS INSIDE PARKING, LOADING AISLES AND WALKS DIRECTLY IN FRONT OF ACCESSIBLE SPACES SHALL BE LESS THAN 2% SLOPE IN ALL DIRECTIONS.

* COORDINATE DIMENSIONS WITH SITE PLAN

ACCESSIBLE PARKING SPACE LAYOUT
(NOT TO SCALE)

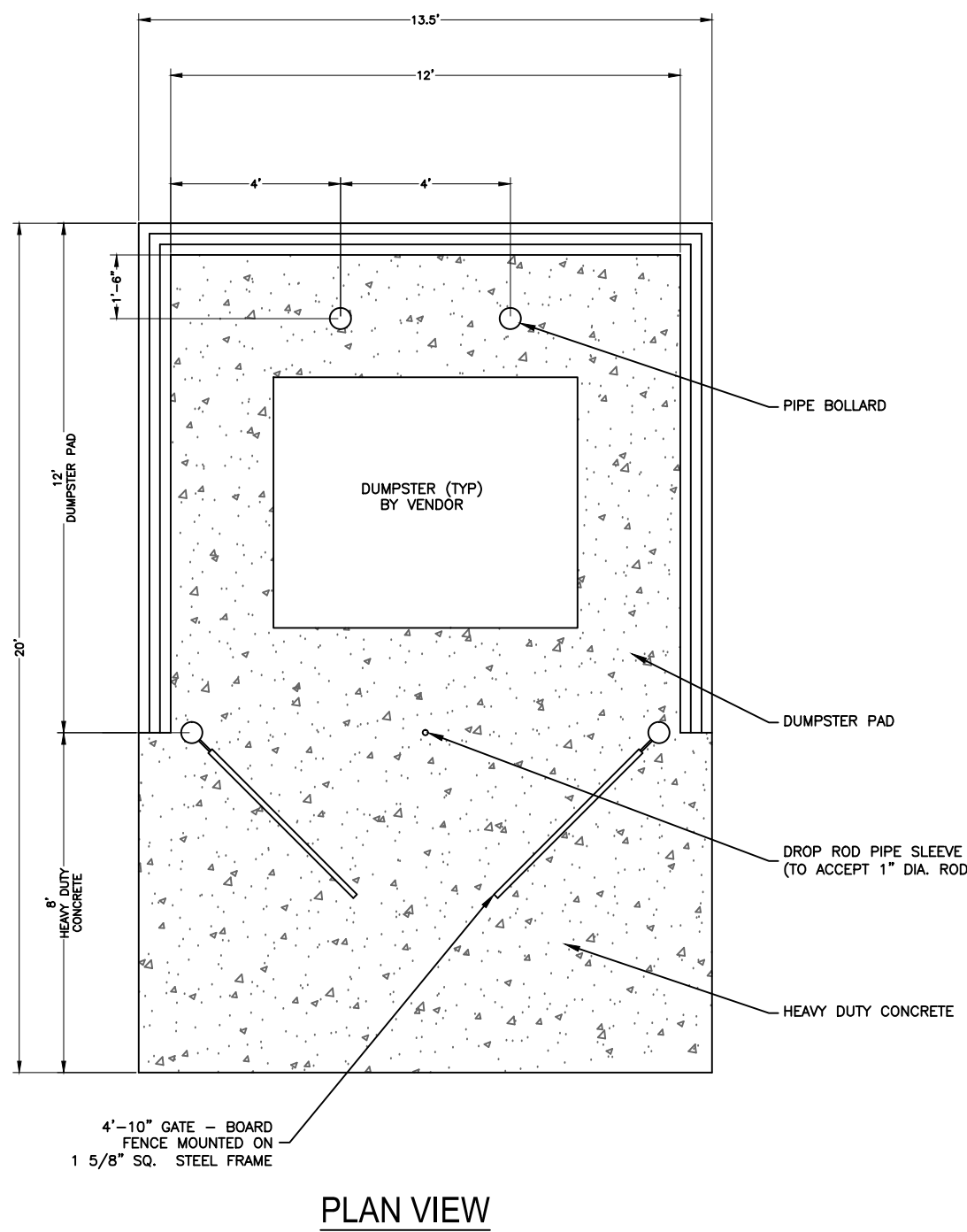
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ADD#3



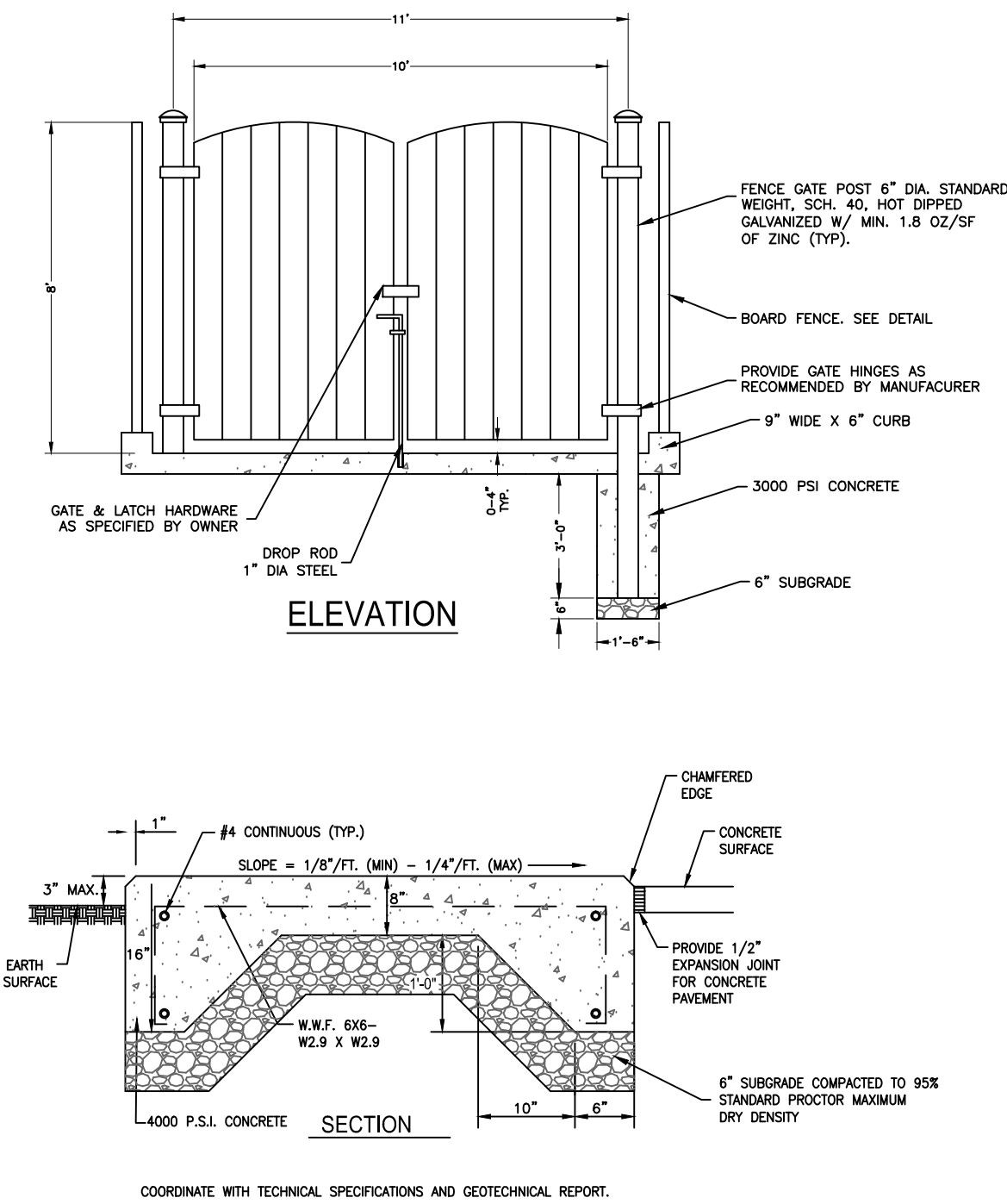
ACCESSIBLE CURB RAMP
(NOT TO SCALE)

16



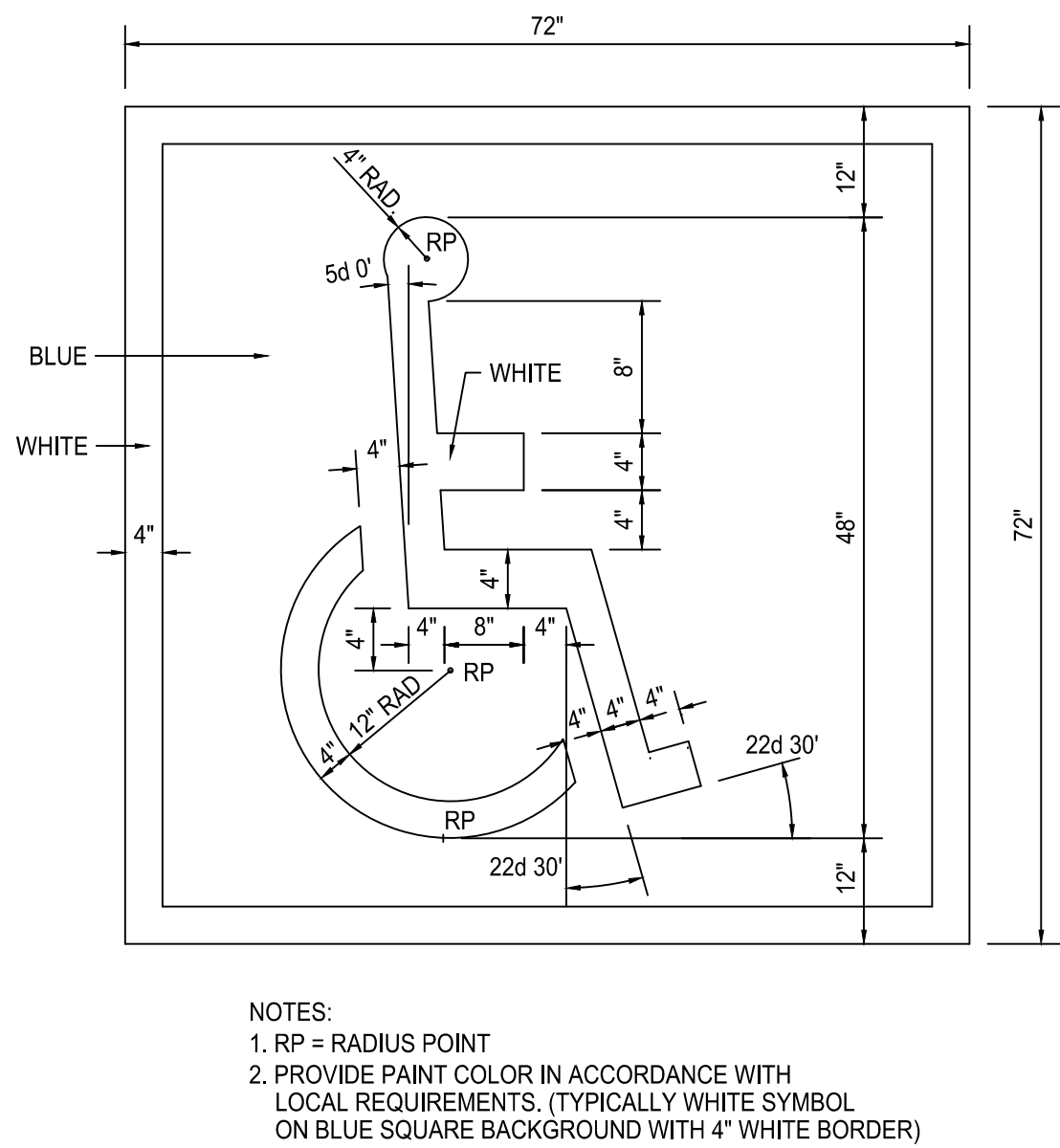
DUMPSTER PAD LAYOUT - 1 BAY
WITH WOOD FENCE ENCLOSURE
(NOT TO SCALE)

12



NOTE: A GEOTECH REPORT WAS PROVIDED, HOWEVER NO CONCRETE PAD SECTION RECOMMENDATIONS WAS PROVIDED TO THE ENGINEER FOR DESIGN PURPOSES, SECTIONS ARE BASED ON STANDARD ENGINEERING PRACTICE.

13



ACCESSIBLE SYMBOL-PAINTED
(NOT TO SCALE)

14

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

WILMINGTON
NORTH CAROLINA

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

Signed: _____

WILMINGTON
NORTH CAROLINA

Approved Construction Plan

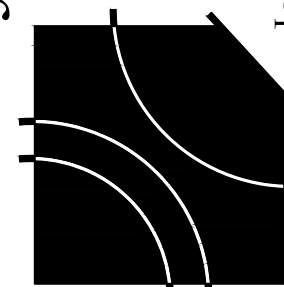
Name _____ Date _____

Planning _____

Traffic _____

Fire _____

JJCA



New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC

ACADIA
HEALTHCARE



Cumulative Sheet Re-issue
May 8, 2017

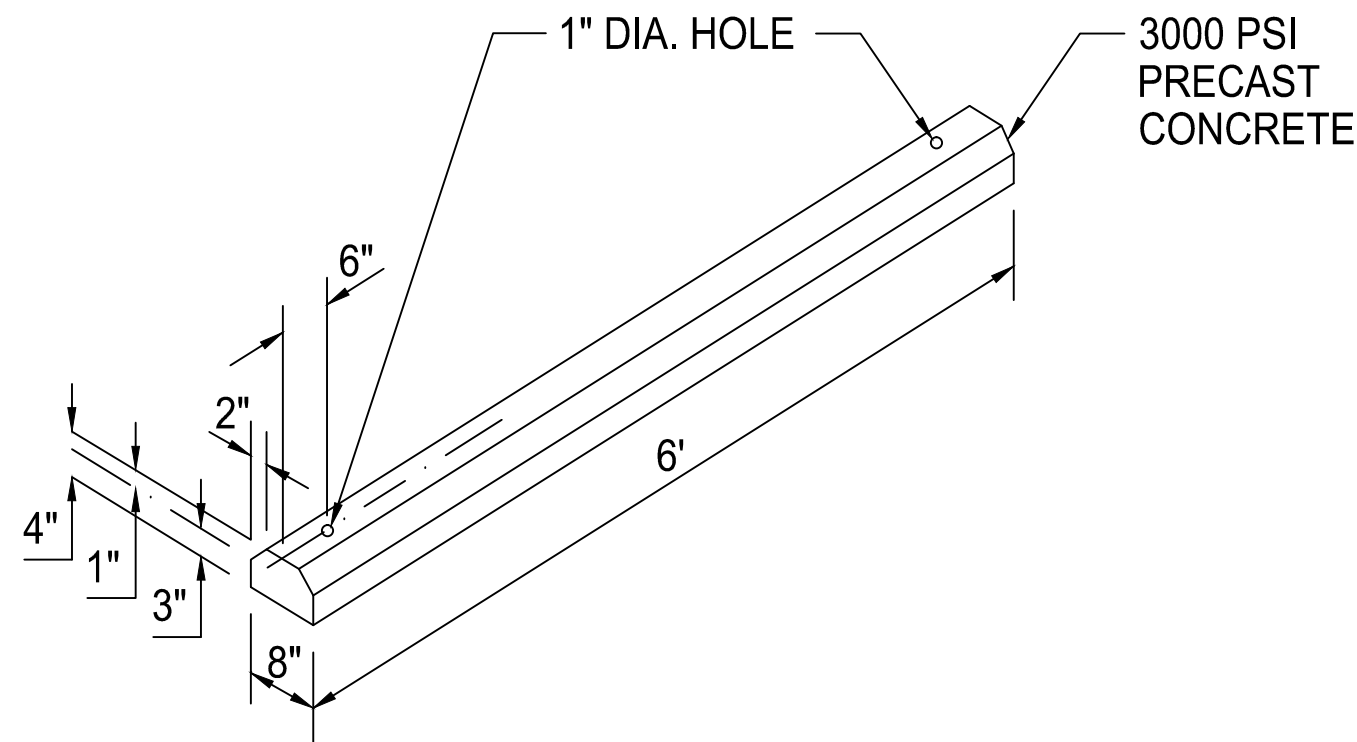
(Individual revisions clouded and labeled within sheet)



PROJECT NUMBER
15678.01
DATE
January 13, 2017

C212
SITE
DETAILS

Johnson Johnson Architects P.C.
4551 Trousdale Drive
Nashville, TN 37204
tel 615.837.0656
fax 615.837.0657

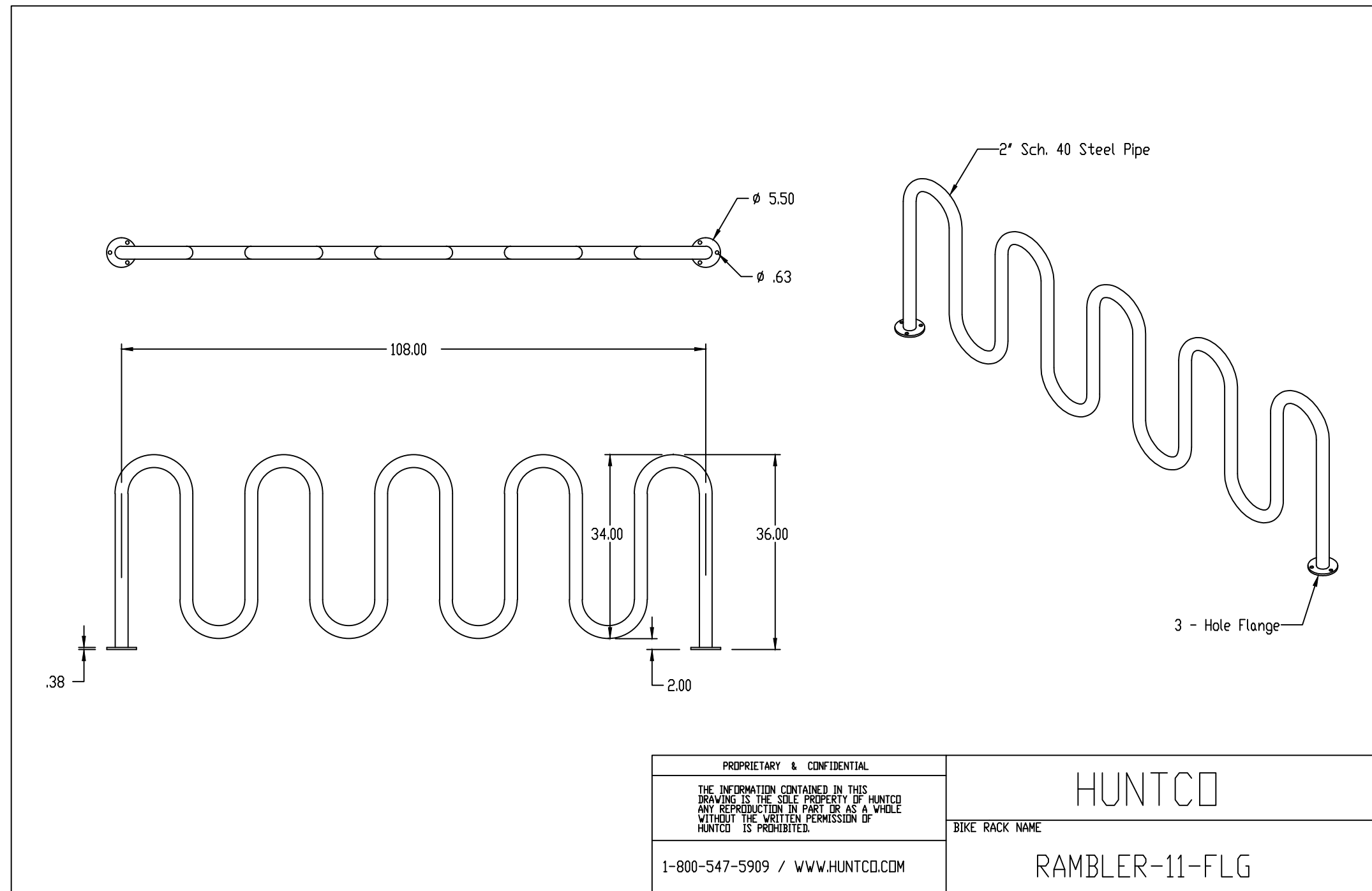


REQUIRES 2 - #4 X 2'-0" STEEL BAR STAKES FOR EACH CURB SECTION. CURB REINFORCED W/ 2 #3 REBARS. LOCATE PARKING CURB 3' FROM FACE OF SIDEWALK HEADER OR EDGE OF PAVEMENT.

WHEEL STOP (NOT TO SCALE)

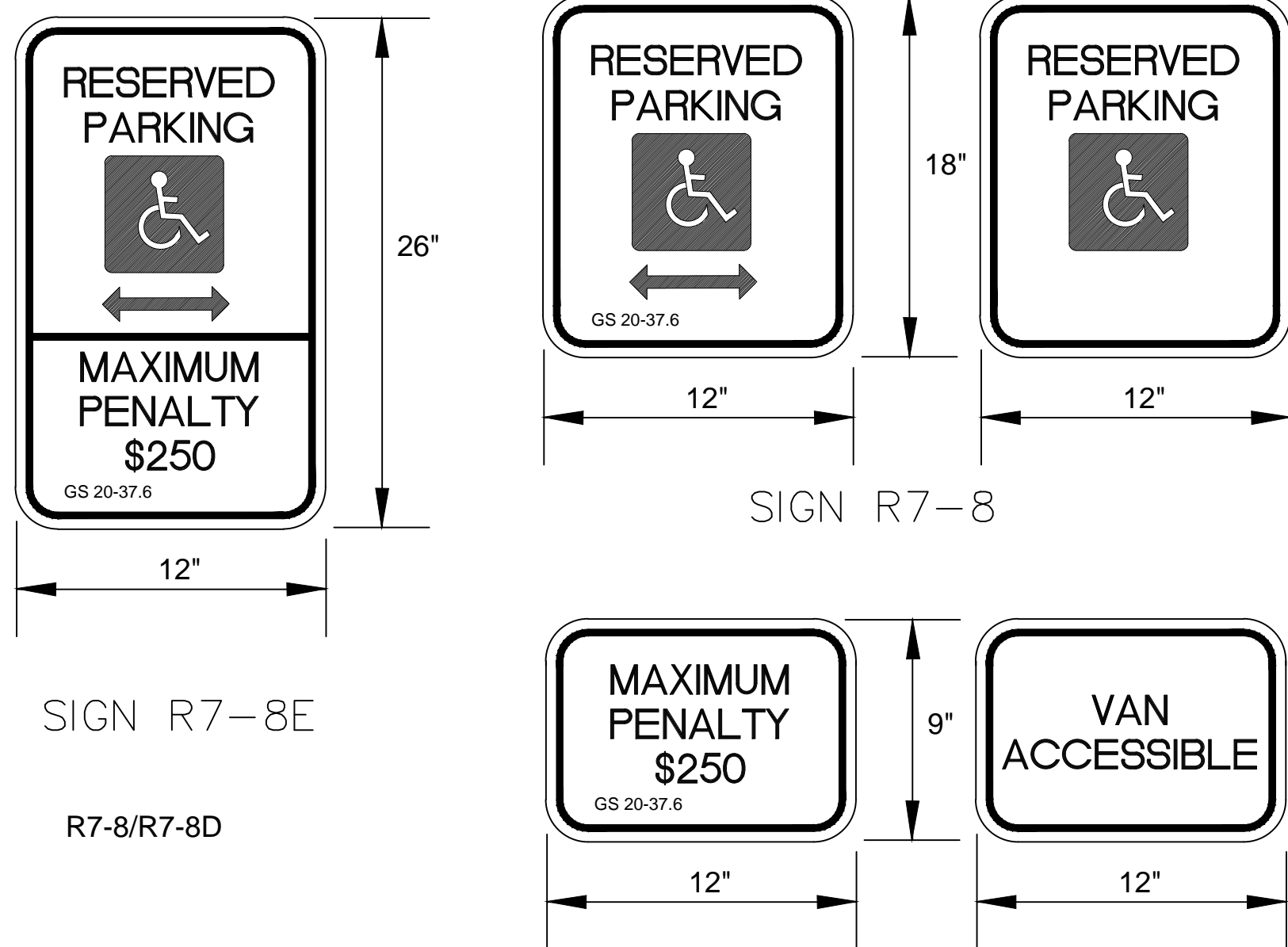
20

ADD#3



BIKE RACK AND PAD (NOT TO SCALE)

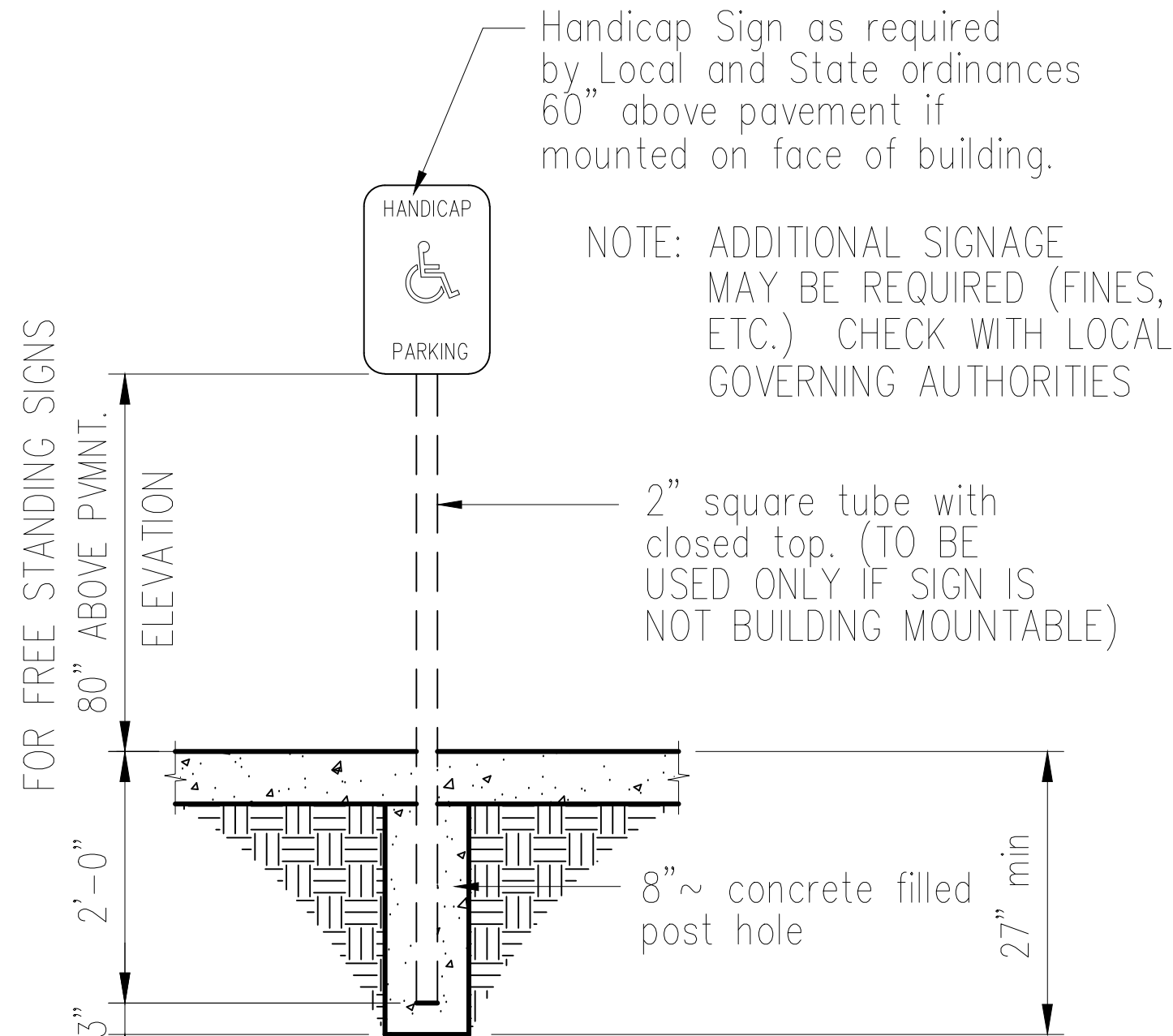
17



HANDICAPPED SIGN DETAIL

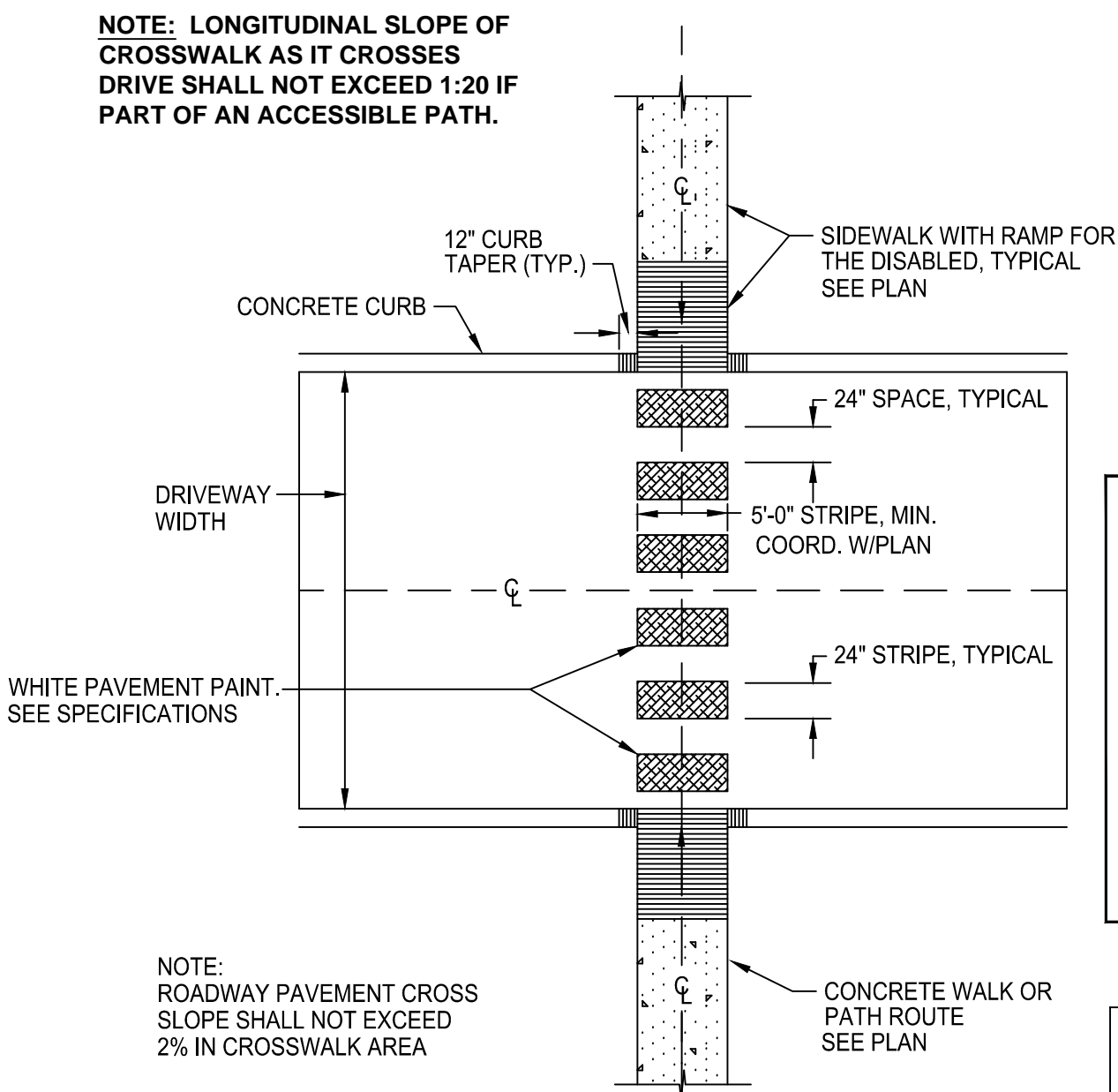
NOT TO SCALE

19



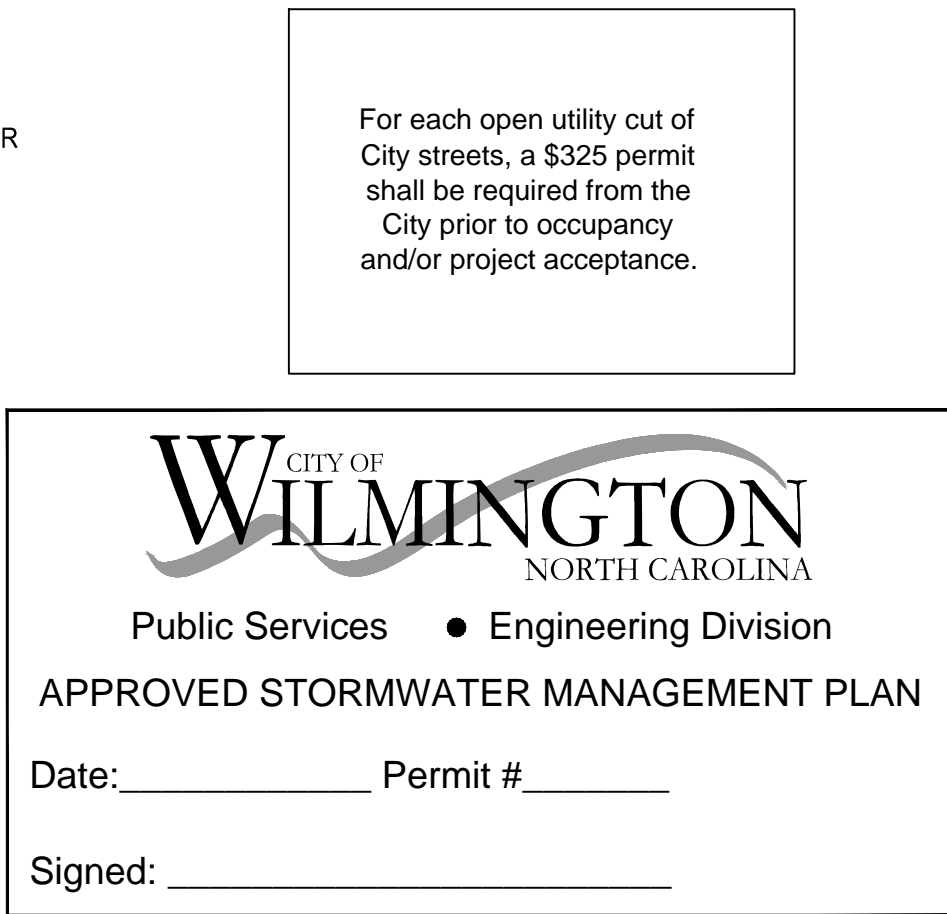
TYPICAL HANDICAP SIGN

NOT TO SCALE

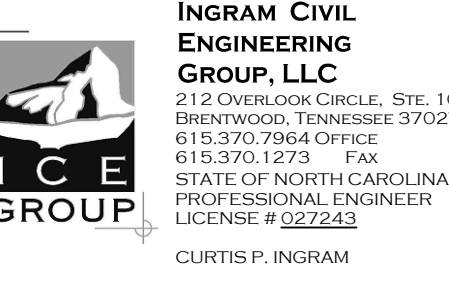


PAINTED CROSSWALK (NOT TO SCALE)

18



Cumulative Sheet Re-issue
May 8, 2017
(Individual revisions clouded and labeled within sheet)



PROJECT NUMBER
15678.01
DATE
January 13, 2017

C213
SITE
DETAILS

JJCA

New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC



Johnson Johnson
Crabtree Architects P.C.
4551 Trousdale Drive
Nashville, TN 37204
tel 615.837.0656
fax 615.837.0657

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Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

Signed: _____



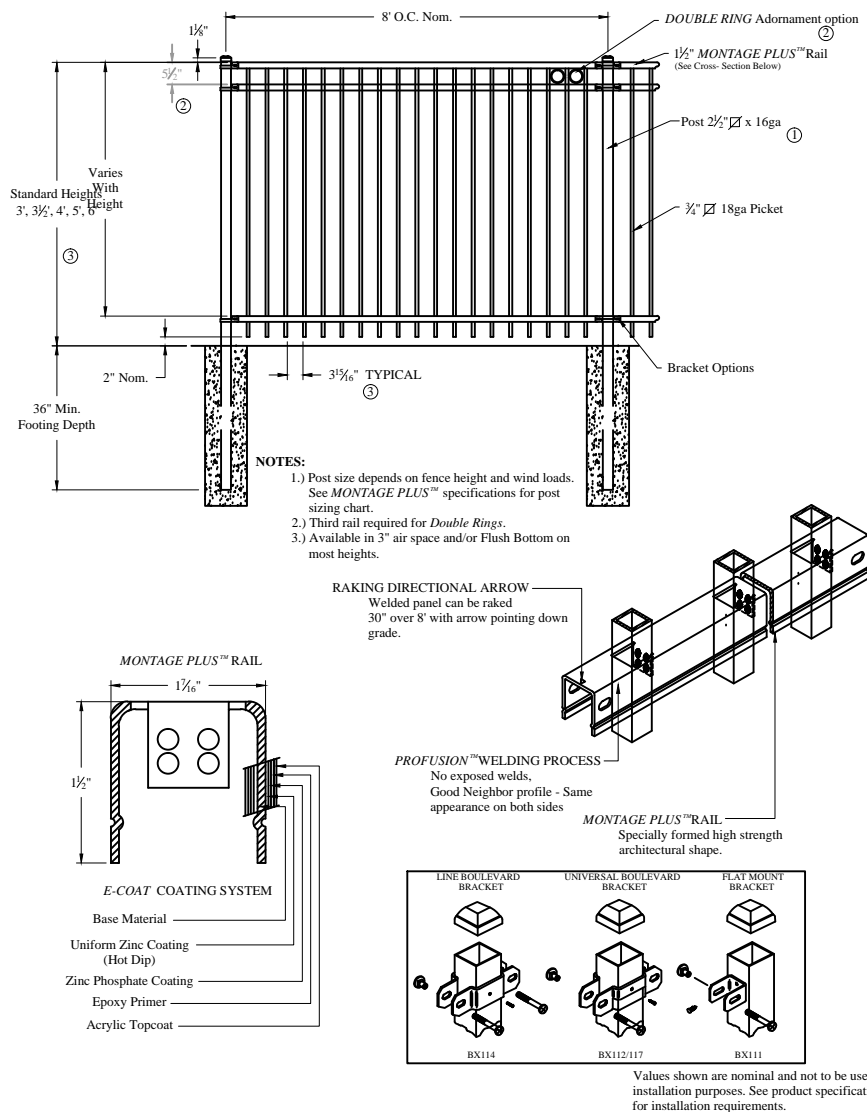
Approved Construction Plan

Name _____ Date _____

Planning _____

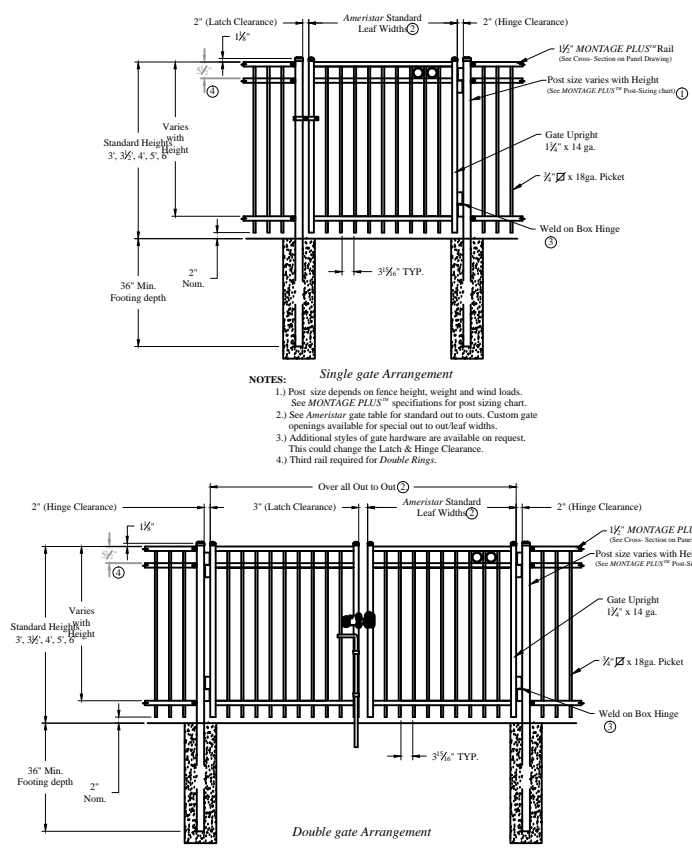
Traffic _____

Fire _____



4' MONTAGE PLUS MAJESTIC FENCE
(NOT TO SCALE)

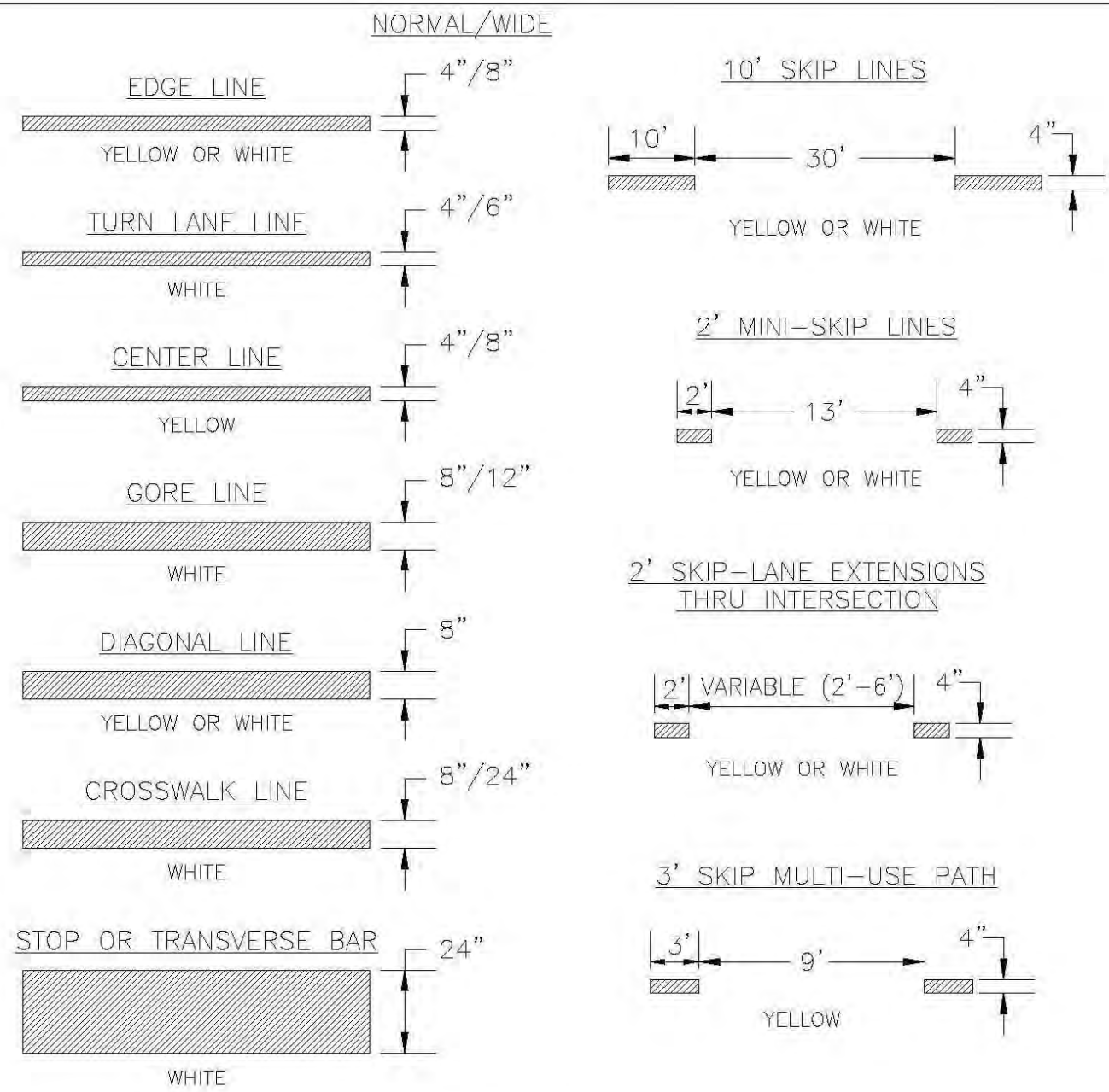
25



4' MONTAGE PLUS MAJESTIC GATE
(NOT TO SCALE)

26

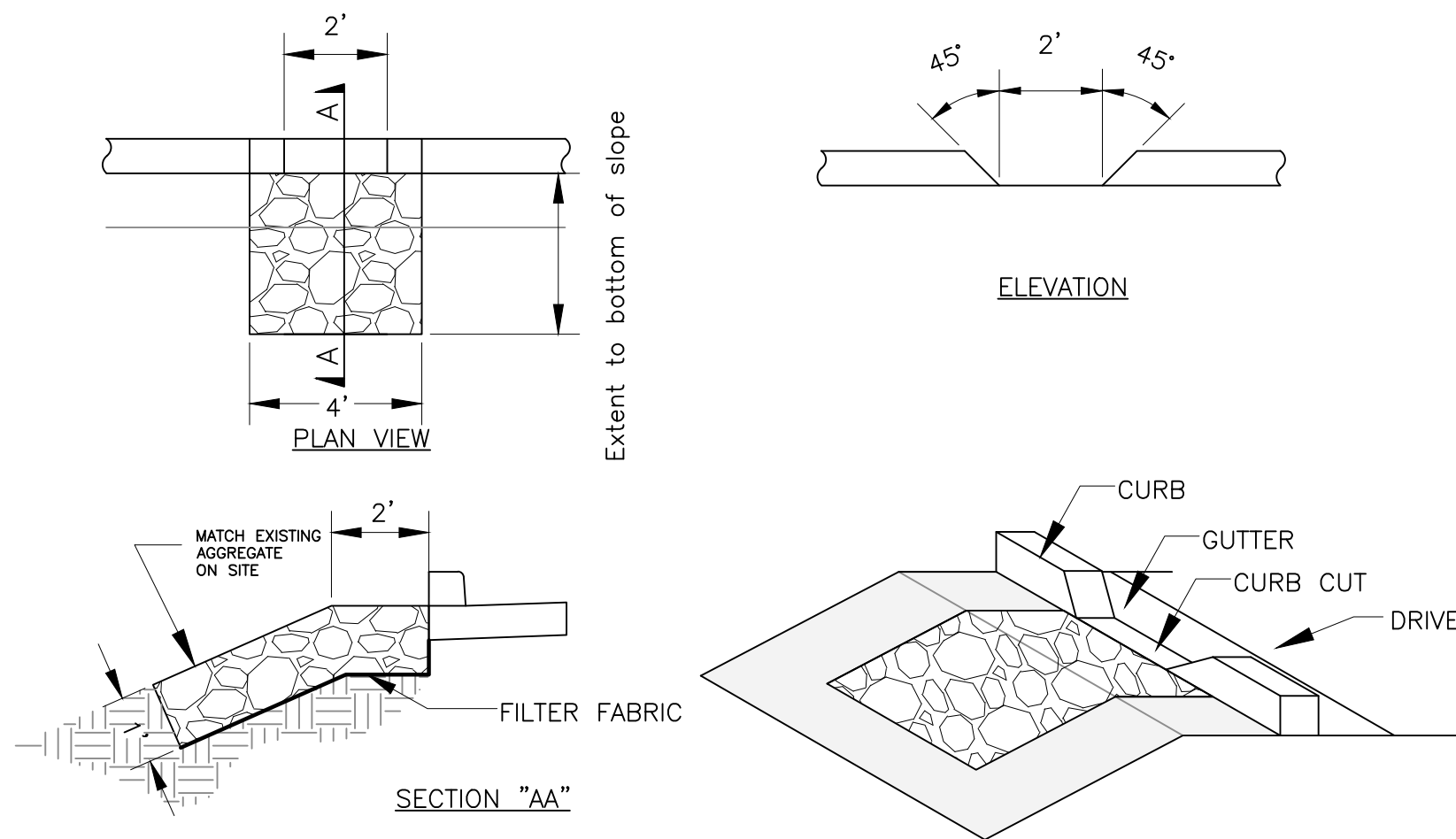
ADD#2



- 1-PAVEMENT MARKINGS AND SYMBOLS SHALL BE DESIGNED PER MUTCD WITH APPROVAL FROM CITY TRAFFIC ENGINEERING, AND INSTALLED IN ACCORDANCE WITH NCDOT DIVISION 12 SPECIFICATIONS.
- 2-GENERALLY, PERMANENT MARKINGS WILL BE UNIFORM AND SMOOTH AND WILL CONSIST OF 120MIL OF THERMOPLASTIC FOR ALL LINES AND SYMBOLS; TEMPORARY MARKINGS SHALL CONSISTS OF 15 MIL PAINT, EVERY 6 MONTHS.
- 3-DURING APPLICATION THE EXISTING PAVEMENT SHALL NOT SHOW SIGNS OF MOISTURE AND BE CLEAN, FREE OF DIRT AND OIL, ETC. THERMOPLASTIC SHALL ONLY BE INSTALLED WHERE PAVEMENT IS 50° F AND RISING. PAINT SHALL ONLY BE INSTALLED WHERE PAVEMENT IS 40° F AND RISING.

DATE: DECEMBER, 2011	STANDARD DETAIL	 CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807	SD 11-01
DRAWN BY JSR	PAVEMENT MARKINGS		
CHECKED BY BDR, P.E.	LINE TYPES		
SCALE NOT TO SCALE	STOP BAR (NOT TO SCALE)		

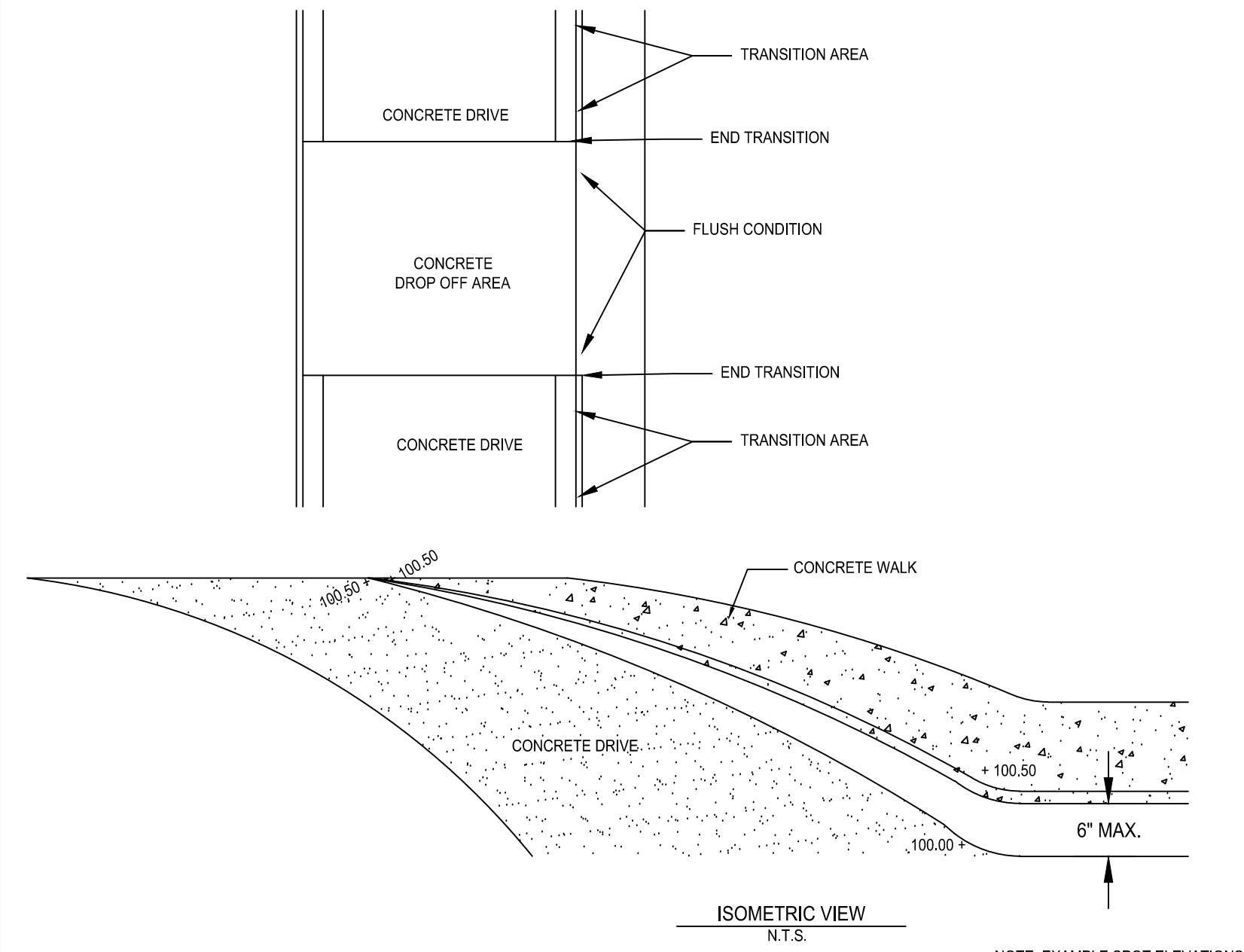
23



CONCRETE CURB CUT 2 FT
(NOT TO SCALE)

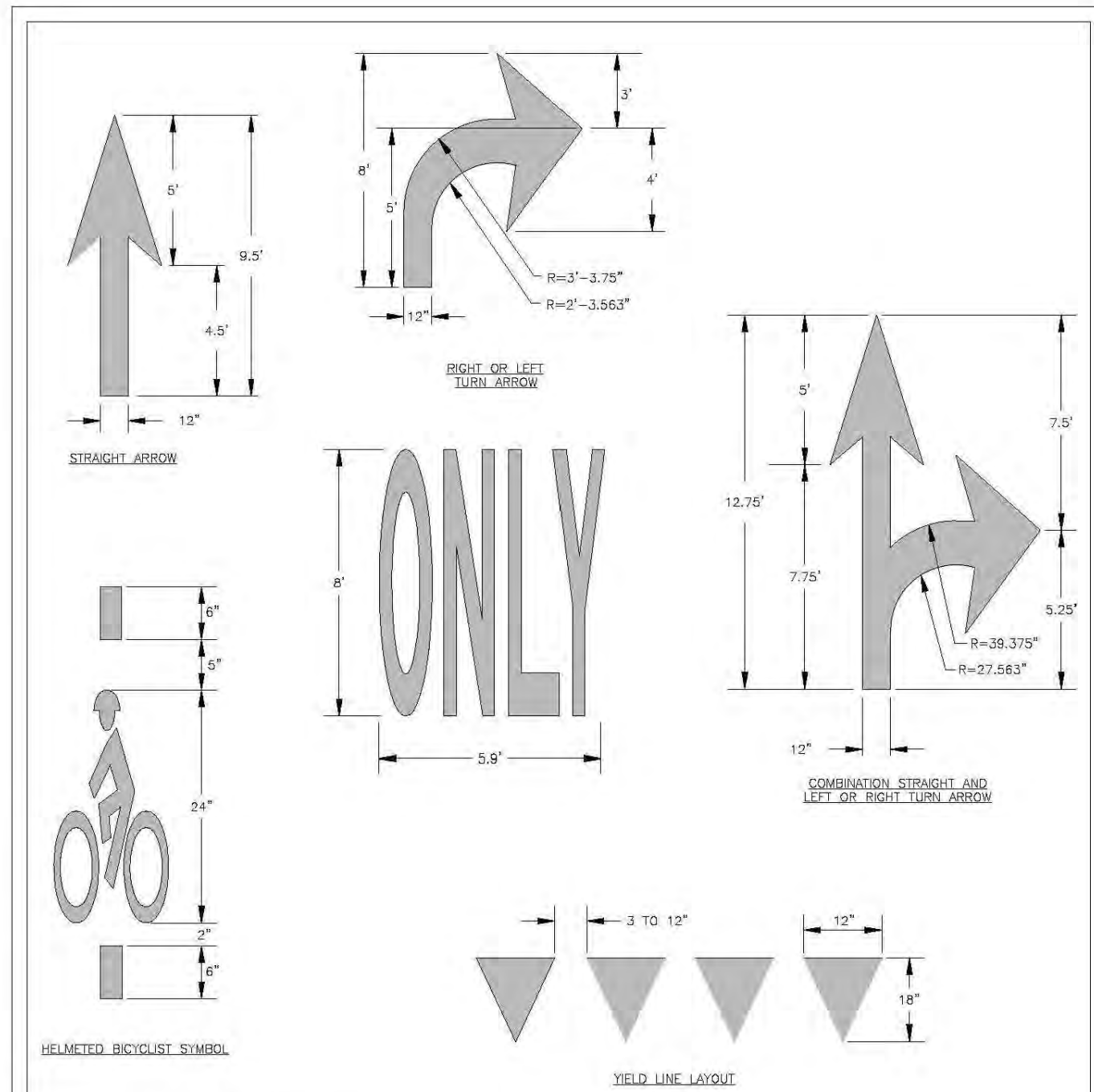
24

ADD#2



CURB TRANSITION
(NOT TO SCALE)

21



- GENERAL NOTES
- 1-PAVEMENT MARKINGS, SYMBOLS AND DIMENSIONS SHALL BE DESIGNED PER MUTCD WITH APPROVAL FROM CITY TRAFFIC ENGINEERING, AND INSTALLED IN ACCORDANCE WITH NCDOT DIVISION 12 SPECIFICATIONS. SEE SD 11-01.

DATE: OCTOBER, 2012	STANDARD DETAIL	 CITY OF WILMINGTON ENGINEERING PO BOX 1810 WILMINGTON, NC 28402 (910) 341-7807	SD 11-03
DRAWN BY JSR	GUIDELINES FOR		
CHECKED BY BDR, P.E.	PAVEMENT MARKINGS		
SCALE NOT TO SCALE	AND SYMBOLS		

TRAFFIC FLOW ARROWS
(NOT TO SCALE)

22

JJCA

New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC

ACADIA
HEALTHCARE



Cumulative Sheet Re-issue
May 8, 2017

(Individual revisions clouded and labeled within sheet)



PROJECT NUMBER
15678.01
DATE
January 13, 2017

C214
SITE
DETAILS

Johnson Johnson
Crabtree Architects P.C.
4551 Trousdale Drive
Nashville, TN 37204
tel 615.837.0656
fax 615.837.0657

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

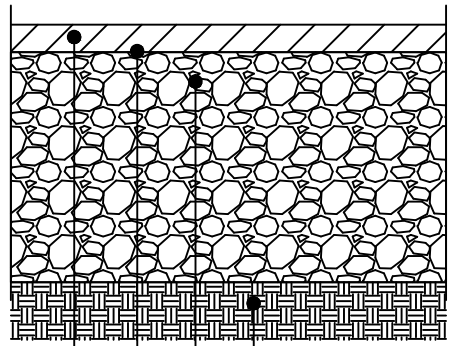


Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____



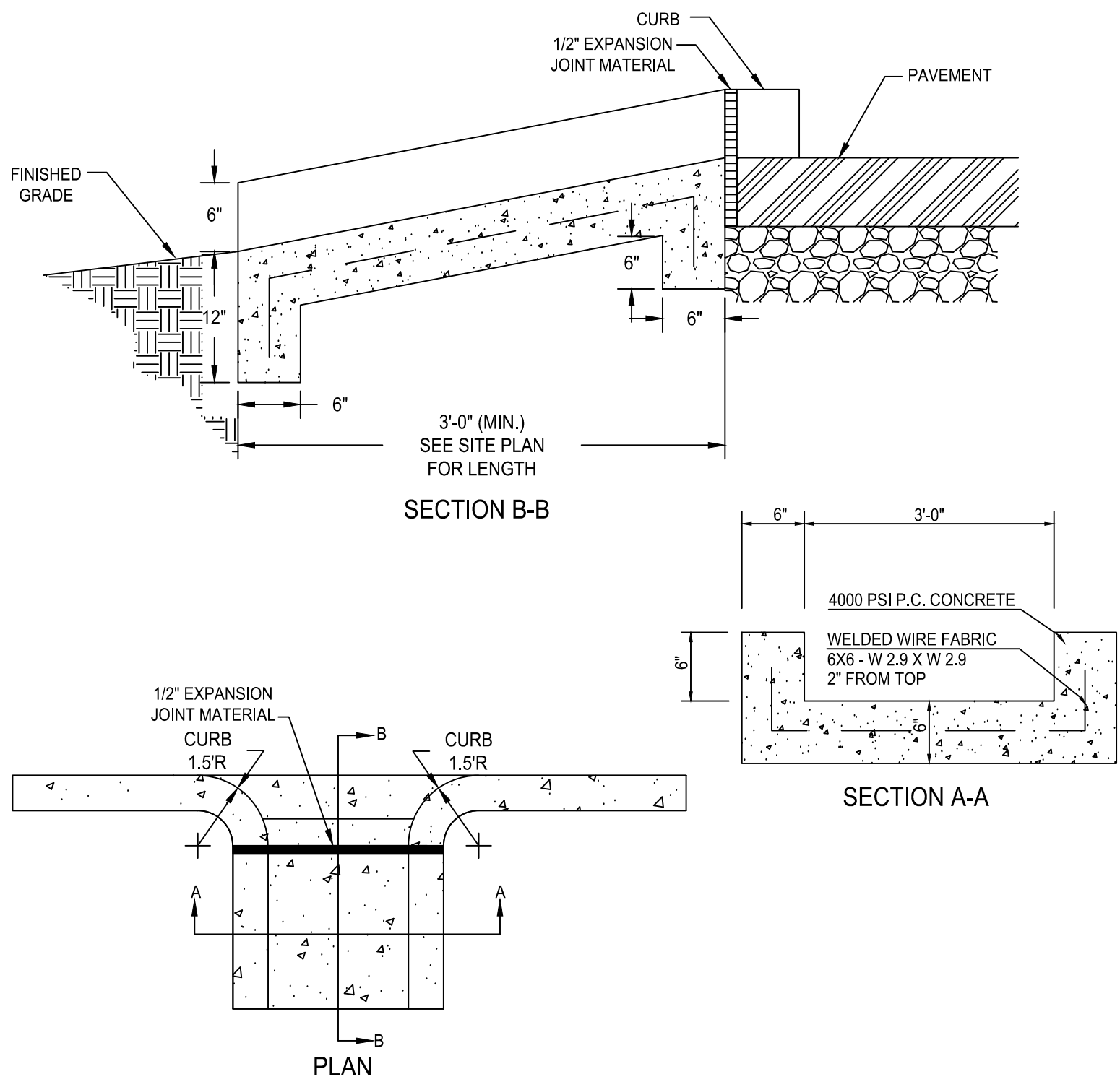
Approved Construction Plan
Name _____ Date _____
Planning _____
Traffic _____
Fire _____

27



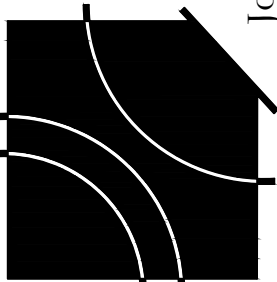
- (A) 2" ASPHALTIC SURFACE AND IN ACCORDANCE WITH DIV. 6, SEC. 600 OF THE CURRENT NCDOT STANDARD SPECS COURSE
(B) DELETE TACK COAT
(C) 6" MINERAL AGGREGATE BASE COURSE COMPACTED TO 100% OF THE MAXIMUM MODIFIED PROCTOR DRY DENSITY AND IN ACCORDANCE WITH DIV. 5, SEC. 520 OF THE CURRENT NCDOT STANDARD SPECS.
(D) 12" SUBGRADE COMPACTED TO 100% OF THE MAXIMUM STANDARD PROCTOR DRY DENSITY AND IN ACCORDANCE WITH DIV. 5, SEC. 501 OF THE CURRENT NCDOT STANDARD SPECS.

ASPHALT PAVEMENT SECTION (LIGHT DUTY)
(NOT TO SCALE)



28

JJCA



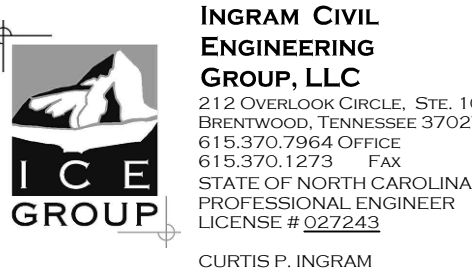
New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC

Johnson Johnson
Crabtree Architects P.C.
4551 Trousdale Drive
Nashville, TN 37204
tel 615.837.0656
fax 615.837.0657



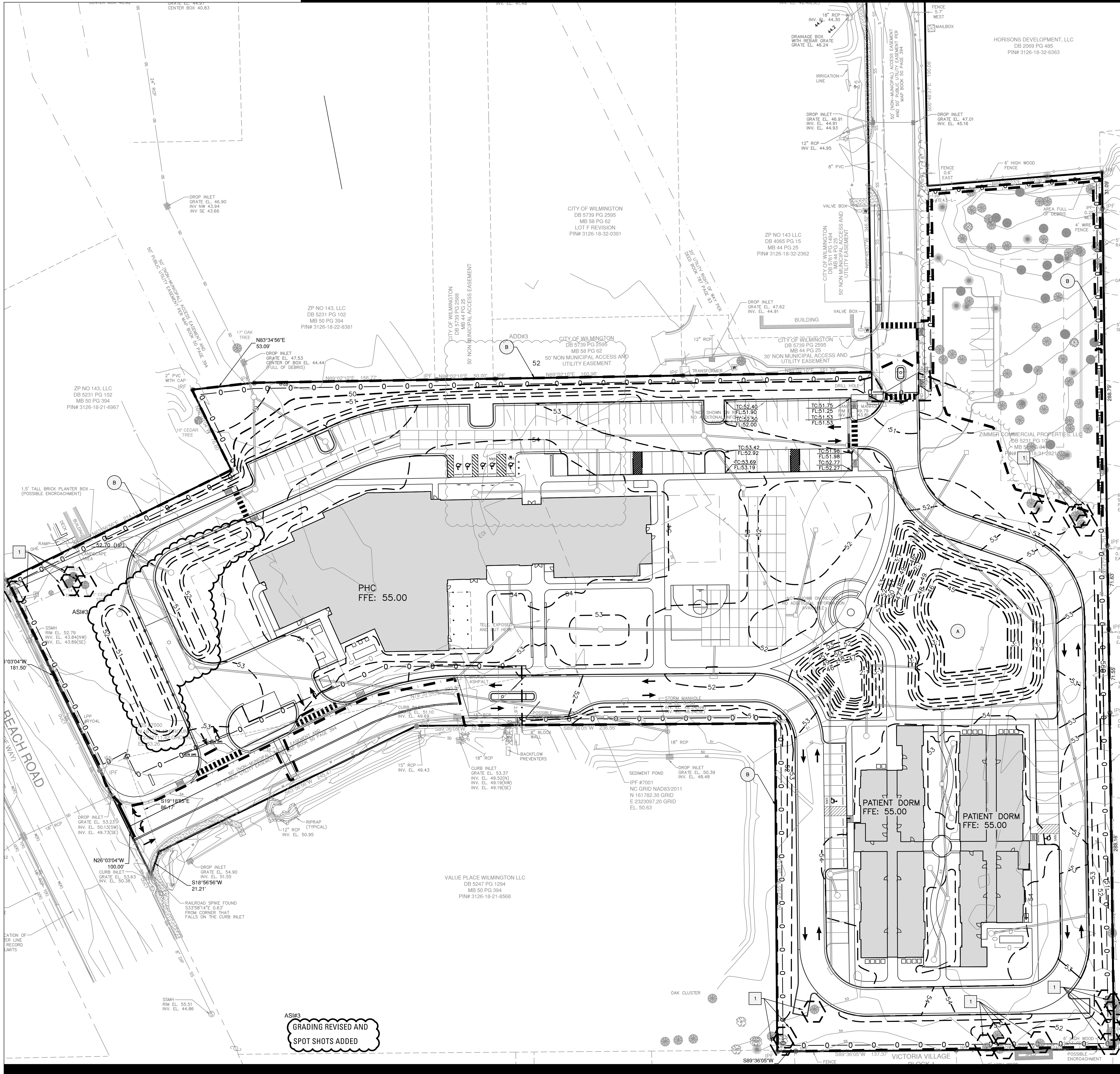
Cumulative Sheet Re-issue
May 8, 2017

(Individual revisions clouded and labeled within sheet)



PROJECT NUMBER
15678.01
DATE
January 13, 2017

C215
SITE
DETAILS



GENERAL GRADING NOTES

1. PRIOR TO INSTALLATION OF STORM OR SANITARY SEWER, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL CROSSINGS AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION. THE ENGINEER WILL BE HELD HARMLESS IN THE EVENT THE ENGINEER IS NOT NOTIFIED OF DESIGN CONFLICTS.
2. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND SIX INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SEEDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS (SEE LANDSCAPE PLAN FOR SEED MIX AND PROPER APPLICATION RATE). ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
3. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY LOCATIONS OF ANY UNDERGROUND UTILITIES. THE CONTRACTOR IS TO VERIFY LOCATION OF OVERHEAD UTILITIES. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
4. THE CONTRACTOR IS TO CONTROL TRAFFIC FLOW DURING TIME OF CONSTRUCTION. ANY AND ALL TRAFFIC CONTROL IMPLEMENTED DURING THIS PROJECT SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
5. ALL WORK WITHIN PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH CITY OF WILMINGTON/NEW HANOVER COUNTY AND THE NC D.O.T. REGULATIONS.
6. CONTRACTOR TO COORDINATE LOCATION OF TOP SOIL STOCKPILE AREA WITH OWNER. SILT FENCE SHALL BE PLACED AROUND PERIMETER OF THE STOCKPILE FOR EROSION AND SEDIMENT CONTROL.
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8. ALL LANDSCAPED SLOPES SHALL BE THREE FEET (3') HORIZONTAL TO ONE FOOT (1') VERTICAL OR FLATTER.
9. CONTOUR LINES AND SPOT ELEVATIONS ARE THE RESULT OF A DETAILED ENGINEERING DESIGN AND REFLECT A PLANNED INTENT WITH REGARD TO EARTHWORK AND DRAINAGE. SHOULD CONTRACTOR HAVE QUESTIONS WITH THIS INTENT, HE SHALL CONTACT THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
10. SLOPE GROUND AWAY FROM BUILDING AT TWO PERCENT (2%) MINIMUM. SEE ARCHITECTURAL PLANS FOR MINIMUM DISTANCE BETWEEN FINISHED FLOOR AND PERIMETER GRADE.

GRADING NOTES

- A PROPOSED WET POND TO HAVE IMPERVIOUS CLAY LINER IN BOTTOM AND SLOPES UP TO AN ELEVATION OF 49.50. 9" MINIMUM LAYER OF CLAY DEPENDING ON TYPE OF SOIL UNDER WET POND. COORDINATE WITH GEOTECH FOR FINAL IMPERVIOUS LAYER THICKNESS.
- B DISTURBED AREA: 7.6 ACRES

GRADING DETAILS

- 1 TREE PROTECTION

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

CITY OF
WILMINGTON
NORTH CAROLINA

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

Signed: _____

CITY OF
WILMINGTON
NORTH CAROLINA

Approved Construction Plan

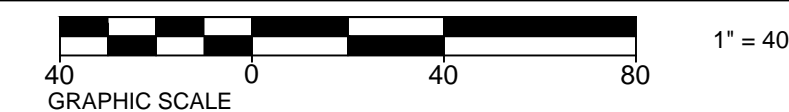
Name _____ Date _____

Planning _____

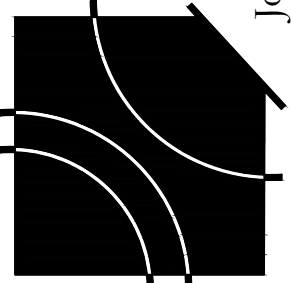
Traffic _____

Fire _____

GRADING PLAN



JCA



New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC

Johnson Johnson
Crabtree Architects P.C.
4551 Trousdale Drive
Nashville, TN 37204
tel 615.837.0656
fax 615.837.0657

ACADIA
HEALTHCARE



Cumulative Sheet Re-issue
May 8, 2017

(Individual revisions clouded and labeled within sheet)



PROJECT NUMBER
15678.01
DATE
January 13, 2017

C300
GRADING
PLAN



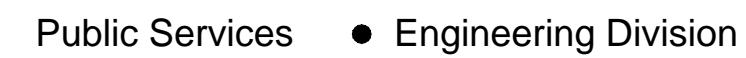
— — — ACCESSIBILITY ROUTE

 FLUSH CONDITION

A ACCESSIBILITY ROUTE

B FLUSH CONDITION

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.



APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

Signed: _____



Name _____

Date _____

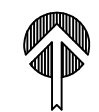
Planning

Traffic

Fire _____



10 0 10 20
GRAPHIC SCALE



New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC

Johnson Johnson
Crabtree Architects PC
4551 Trousdale Drive
Nashville, TN 37204
tel/ 615.837.0656
fax 615.837.0657



Cumulative Sheet Re-issue

May 8, 2017

(Individual revisions clouded and labeled within sheet)



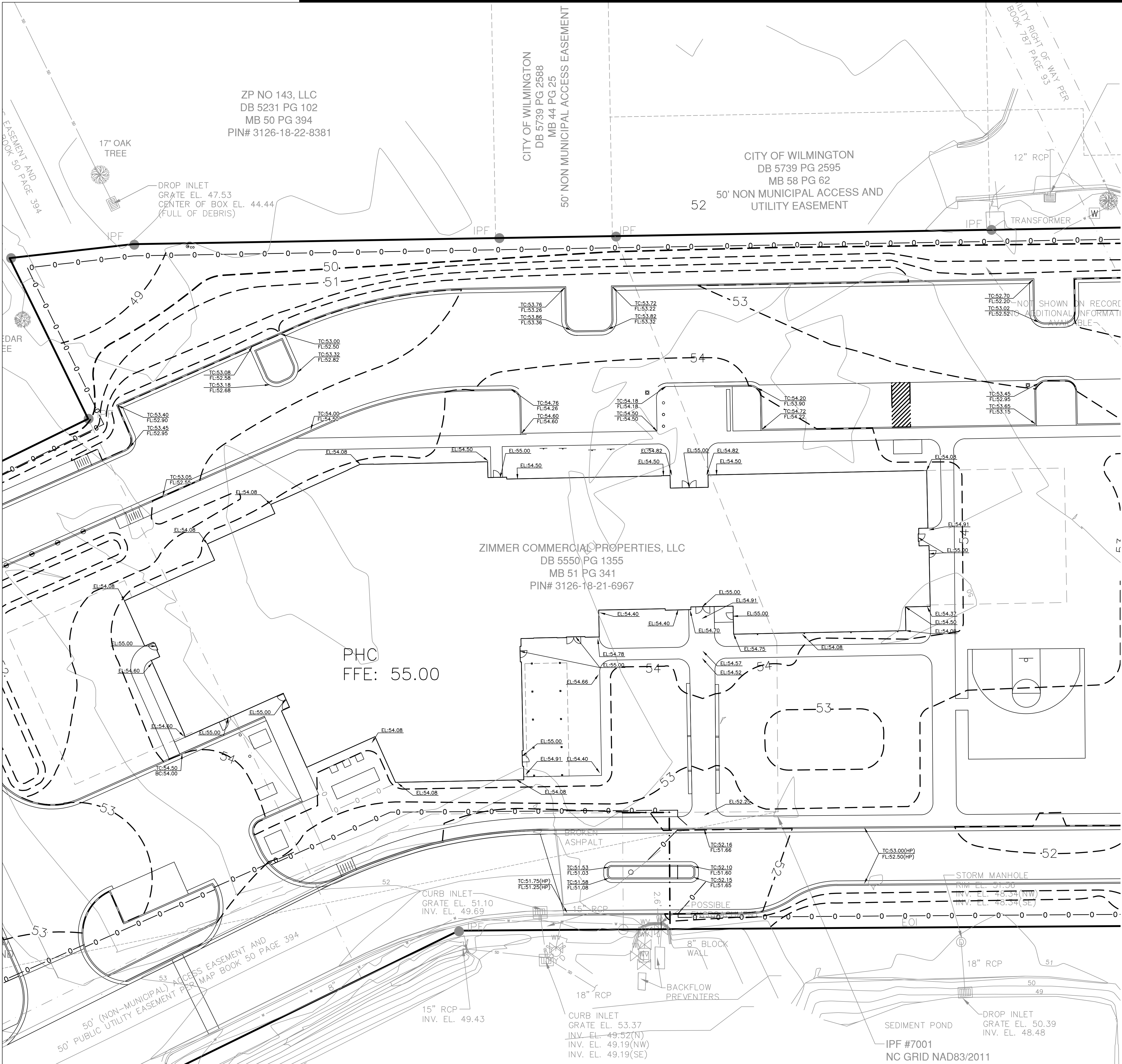
PROJECT NUMBER

15678.01

DATE
January 13, 2017

C301

ACCESSIBILITY BLOW UP



GENERAL GRADING NOTES

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10. SLOPE GROUND AWAY FROM BUILDING AT TWO PERCENT (2%) MINIMUM.

GRADING NOTES

A

AS1#3

SPOT SHOTS ADDED

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

CITY OF WILMINGTON
NORTH CAROLINA

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

Signed: _____

CITY OF WILMINGTON
NORTH CAROLINA

Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

Fire _____

SPOT SHOT ENLARGEMENT PLAN



JJCA

New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC

ACADIA
HEALTHCARE



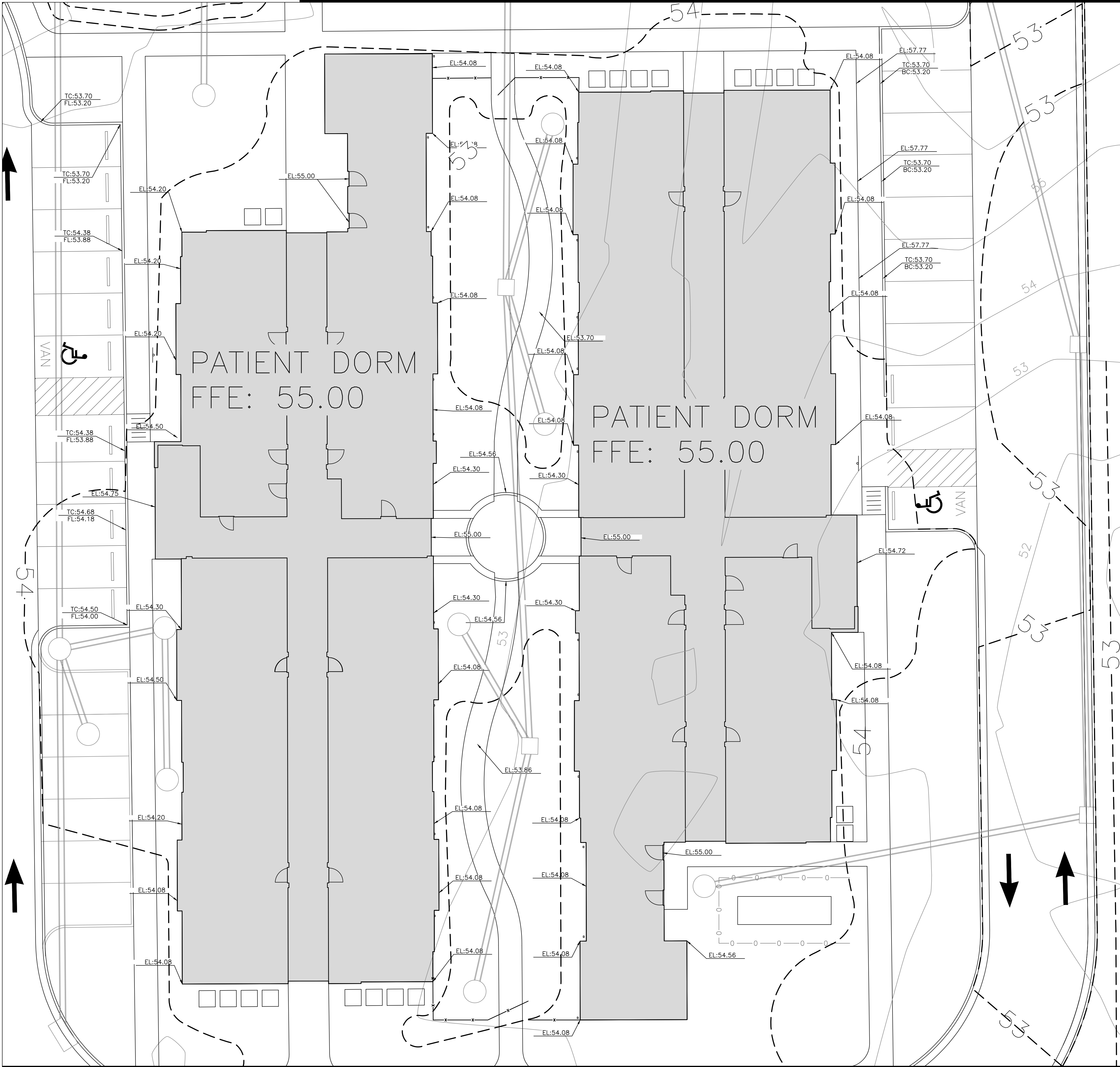
Cumulative Sheet Re-issue
May 8, 2017

(Individual revisions clouded and labeled within sheet)



PROJECT NUMBER
15678.01
DATE
January 13, 2017

C302
SPOT SHOT
ENLARGEMENT
PLAN



GENERAL GRADING NOTES

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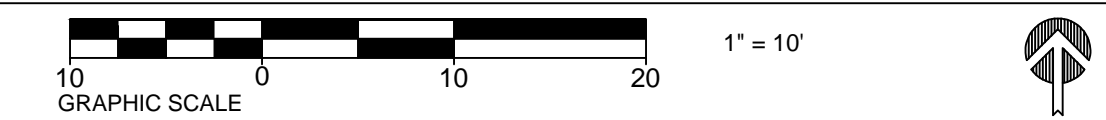
GRADING NOTES

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CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____

CITY OF WILMINGTON
NORTH CAROLINA
Approved Construction Plan
Name _____ Date _____
Planning _____
Traffic _____
Fire _____

SPOT SHOT ENLARGEMENT PLAN



JJCA

New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC

ACADIA
HEALTHCARE



Cumulative Sheet Re-issue
May 8, 2017
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PROJECT NUMBER
15678.01
DATE
January 13, 2017

C303
SPOT SHOT
ENLARGEMENT
PLAN

-

-

-

1

ADD#3

NOTE:
THE CRITICAL ROOT ZONE (CRZ) OF A TREE IS WHERE THE MAJORITY OF A TREE'S ROOTS LAY. 85% OF MOST TREE ROOTS ARE FOUND IN THE TOP 24" OF THE SOIL AND SUPPLY THE MAJORITY OF NUTRIENTS AND WATER. GENERALLY, ROOTS SPREAD OUT 2-3X THE HEIGHT OF THE TREE.

NOTE:
CROWN OF THE TREE IS NEEDED FOR LEAF GROWTH TO PRODUCE OXYGEN, FILTER THE AIR, REDUCE WIND AND SOFTEN NOISE. DO NOT DISFIGURE CROWN WITH INTENSIVE PRUNING.

CRZ
DBH
3' MIN
8' MAX
ORANGE SAFETY FENCE OR ORANGE SILT FENCE (TYPICAL)

NOTES:
1. PROTECT CRITICAL ROOT ZONE (CRZ) OF TREES PRIOR TO CONSTRUCTION. CLEARLY MARK THE TREES AND ERECT A PROTECTIVE BARRIER AT THE CRZ. BARRIER SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE.
2. CRZ RADIUS IS 1 FT PER INCH OF TREE DIAMETER AT BREAST HEIGHT (DBH).
3. IF CONSTRUCTION OCCURS WITHIN THE CRZ, AT LEAST 12" OF MULCH AND/OR LOGGING MATTS SHALL BE PLACED WHERE MACHINERY MANEUVERS TO REDUCE SOIL COMPACTION IN THIS ZONE.
4. WHERE SIDEWALKS AND PATHWAYS PASS WITHIN CRZ, EXTRA CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ROOTS. ALTERNATE CONSTRUCTION METHODS, SUCH AS A REINFORCED SIDEWALK, SHALL BE IMPLEMENTED AS NECESSARY.
5. FOR ALL TREES, CUTTING OF LARGE STRUCTURAL ROOTS LOCATED NEAR THE BASE OF THE TRUNK IS PROHIBITED. DO NOT COMPACT SOIL BENEATH TREES. NO VEHICLE SHALL BE ALLOWED TO PARK UNDER TREES. NO MATERIALS OR EQUIPMENT SHALL BE STORED BENEATH TREES. DAMAGING THE BARK WITH LAWMOWERS, CONSTRUCTION EQUIPMENT, OR ANYTHING ELSE IS PROHIBITED. CONTRACTOR SHALL REPAIR DAMAGE TO TREES.
6. FAILING TO INSTALL OR MAINTAIN PROTECTION MEASURES SHALL RESULT IN A STOP WORK ORDER AND FINE OF \$500/DAY. DISTURBANCE OTHER THAN THAT ALLOWED ON THE APPROVED PLAN WILL REQUIRE OWNER TO POST A LETTER OF CREDIT FOR 3 YRS FOR TREE MITIGATION.

STANDARD DETAIL	
DATE: JAN, 2015	TREE PROTECTION DURING CONSTRUCTION SHEET 1 of 2
DRAWN BY JSR	
CHECKED BY RDG, P.E.	
SCALE NOT TO SCALE	

CITY OF WILMINGTON ENGINEERING
PO BOX 1810
WILMINGTON, NC 28402
(910) 341-7807

SD 15-09

8" MAX.
VARIABLE AS DIRECTED BY THE ENGINEER
WARNING SIGN
DO NOT ENTER
ZONA PROTECTORA PARA LOS ARBOLES
PROHIBIDO ENTRAR
PLASTIC OR WIRE TIES
GRADE
ORANGE, UV RESISTANT HIGH - TENSILE STRENGTH POLY BARRICADE FABRIC (TYPICAL)

FRONT VIEW

STEEL POST
WARNING SIGN
ORANGE, UV RESISTANT HIGH - TENSILE STRENGTH POLY BARRICADE FABRIC (TYPICAL)

3'-0" 25" 2'-0"

40" 18"

SIDE VIEW

WARNING SIGN DETAIL

TREE PROTECTION AREA
DO NOT ENTER
ZONA PROTECTORA PARA LOS ARBOLES
PROHIBIDO ENTRAR

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	TREE PROTECTION DURING CONSTRUCTION SHEET 2 of 2
DRAWN BY JSR	
CHECKED BY RDG, P.E.	
SCALE NOT TO SCALE	

CITY OF WILMINGTON ENGINEERING
PO BOX 1810
WILMINGTON, NC 28402
(910) 341-7807

SD 15-09

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.



Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: Permit #

Signed:



Approved Construction Plan

Name Date

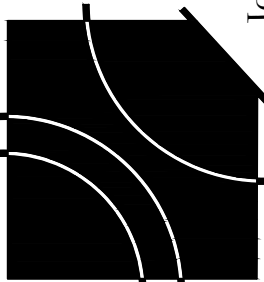
Planning

Traffic

Fire

JJCA

New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC



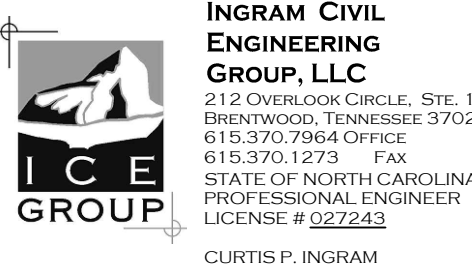
Johnson Johnson
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ACADIA
HEALTHCARE



Cumulative Sheet Re-issue
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C310
GRADING
DETAILS



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CITY OF WILMINGTON
NORTH CAROLINA

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

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CITY OF WILMINGTON
NORTH CAROLINA

Approved Construction Plan

Name _____ Date _____

Planning _____

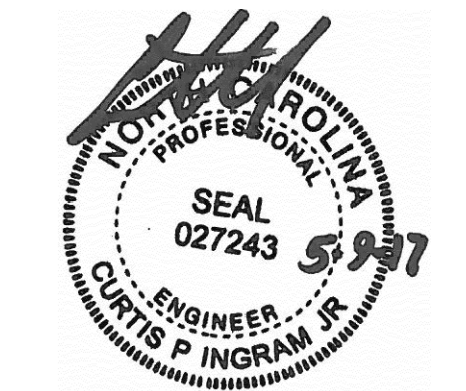
Traffic _____

Fire _____

JJCA

New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC

ACADIA
HEALTHCARE



Cumulative Sheet Re-issue
May 8, 2017

(Individual revisions clouded and labeled within sheet)

INGRAM CIVIL ENGINEERING GROUP, LLC
212 OVERLOOK CIRCLE, STE. 105
BRENTWOOD, TENNESSEE 37027
615.370.7964 OFFICE
615.370.1275 FAX
STATE OF NORTH CAROLINA
PROFESSIONAL ENGINEER
LICENSE # 027243
CURTIS P. INGRAM

PROJECT NUMBER
15678.01
DATE
January 13, 2017

C400
PRE-DEVELOPED
DRAINAGE MAP

Johnson Johnson
Crabtree Architects PC
4551 Trousdale Drive
Nashville, TN 37204
tel 615.837.0656
fax 615.837.0657

PIPE SCHEDULE				
PIPE	LENGTH (FT.)	SIZE (IN.)	TYPE	SLOPE (%)
P1	30	24	RCP	0.50
P2	22	12	RCP	0.52
P3	79	24	RCP	0.52
P4	118	24	RCP	0.49
P5	104	24	RCP	0.58
P6	228	24	RCP	0.52
P7	63	12	RCP	0.49
P8	130	24	RCP	0.52
P9	54	24	RCP	0.50
P10	109	12	RCP	0.50
P11	45	15	RCP	0.84
P12	76	15	RCP	0.84
P13	86	18	RCP	0.85
P14	26	12	RCP	2.00
P15	72	15	RCP	0.48
P16	28	12	RCP	3.00
P17	56	15	RCP	0.68
P18	8	24	RCP	0.50
P19	124	18	RCP	0.50
P20	224	15	RCP	0.50
P21	75	12	RCP	2.68
P22	9	12	RCP	2.68
P23	43	12	RCP	0.49
P24	158	12	RCP	0.49
P25	65	18	RCP	0.49
P26	98	15	RCP	0.49
P27	64	15	RCP	0.68
P28	100	12	RCP	0.68
P29	85	12	RCP	0.66
P30	100	12	RCP	0.50
P31	101	12	RCP	0.62
P32	21	12	RCP	0.48
P33	32	12	RCP	7.56
P34	50	12	RCP	4.84
P35	40	24	RCP	0.50
P36	104	10	HDPE	2.50
P37	38	10	HDPE	3.34
P38	82	12	RCP	0.51
P39	19	10	HDPE	1.00
P40	23	10	HDPE	1.00
P41	32	10	HDPE	2.00
P42	27	10	HDPE	1.00
P43	83	10	HDPE	0.87
P44	36	10	HDPE	1.00
P45	30	10	HDPE	1.00
P46	30	10	HDPE	1.00
P47	53	10	HDPE	1.13
P48	13	24	RCP	3.62
P49	84	18	RCP	0.89
P50	45	12	RCP	0.50
P51	87	15	RCP	0.60
P52	39	12	RCP	0.87

PIPE NUMBER
DETAIL CALLOUT

For each open utility cut of
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CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

Signed: _____

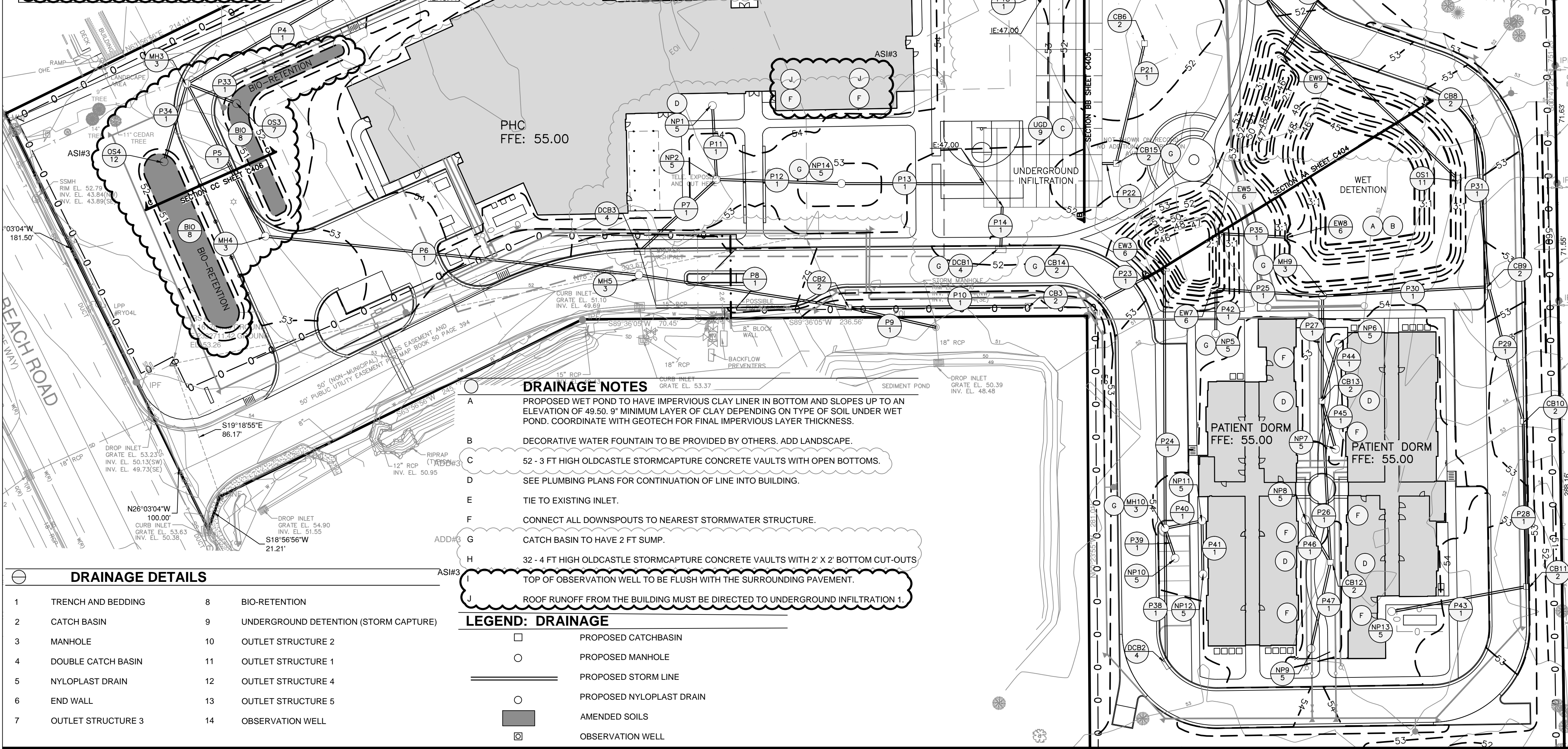
CITY OF WILMINGTON
NORTH CAROLINA
Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

Fire _____



- DRAINAGE NOTES**
- A. PROPOSED WET POND TO HAVE IMPERVIOUS CLAY LINER IN BOTTOM AND SLOPES UP TO AN ELEVATION OF 49.50. 9" MINIMUM LAYER OF CLAY DEPENDING ON TYPE OF SOIL UNDER WET POND. COORDINATE WITH GEOTECH FOR FINAL IMPERVIOUS LAYER THICKNESS.
- B. DECORATIVE WATER FOUNTAIN TO BE PROVIDED BY OTHERS. ADD LANDSCAPE.
- C. 52' - 3 FT HIGH OLDCASTLE STORMCAPTURE CONCRETE VAULTS WITH OPEN BOTTOMS.
- D. SEE PLUMBING PLANS FOR CONTINUATION OF LINE INTO BUILDING.
- E. TIE TO EXISTING INLET.
- F. CONNECT ALL DOWNSPOUTS TO NEAREST STORMWATER STRUCTURE.
- G. CATCH BASIN TO HAVE 2 FT SUMP.
- H. 32' - 4 FT HIGH OLDCASTLE STORMCAPTURE CONCRETE VAULTS WITH 2' X 2' BOTTOM CUT-OUTS.
- J. TOP OF OBSERVATION WELL TO BE FLUSH WITH THE SURROUNDING PAVEMENT.
- K. ROOF RUNOFF FROM THE BUILDING MUST BE DIRECTED TO UNDERGROUND INFILTRATION 1.

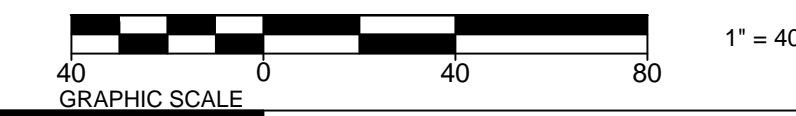
- LEGEND: DRAINAGE**
- PROPOSED CATCHBASIN
 - PROPOSED MANHOLE
 - PROPOSED STORM LINE
 - PROPOSED NYLOPLAST DRAIN
 - AMENDED SOILS
 - OBSERVATION WELL

DRAINAGE DETAILS			
1	TRENCH AND BEDDING	8	BIO-RETENTION
2	CATCH BASIN	9	UNDERGROUND DETENTION (STORM CAPTURE)
3	MANHOLE	10	OUTLET STRUCTURE 2
4	DOUBLE CATCH BASIN	11	OUTLET STRUCTURE 1
5	NYLOPLAST DRAIN	12	OUTLET STRUCTURE 4
6	END WALL	13	OUTLET STRUCTURE 5
7	OUTLET STRUCTURE 3	14	OBSERVATION WELL

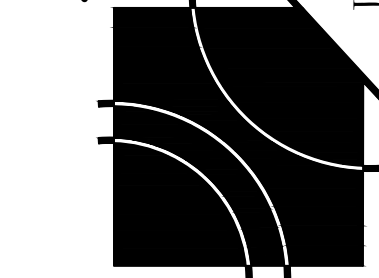
- GENERAL DRAINAGE NOTES**
- PRIOR TO INSTALLATION OF STORM OR SANITARY SEWER, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL CROSSINGS AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION. THE ENGINEER WILL BE HELD HARMLESS IN THE EVENT THE ENGINEER IS NOT NOTIFIED OF DESIGN CONFLICTS.
 - CONTRACTOR HAS THE OPTION TO BID THE FOLLOWING MATERIAL FOR THE STORM SEWER SYSTEM, EXCEPT WHERE OTHERWISE NOTED: RCP OR SIPP, AS INDICATED ON THIS PLAN, WHERE THE WORD PIPE IS USED. ALL PIPES SHALL HAVE A MAXIMUM ROUGHNESS COEFFICIENT ("N") OF .013 AND SHALL MEET OR EXCEED THE PIPE MANUFACTURERS REQUIREMENTS FOR MINIMUM AND MAXIMUM COVER. CONTRACTOR SHALL REFER TO THE SITE WORK SPECIFICATIONS SECTION FOR STORM SEWER SYSTEMS FOR ACCEPTABLE TYPE AND MATERIAL.
 - THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY LOCATIONS OF ANY UNDERGROUND UTILITIES. THE CONTRACTOR IS TO VERIFY LOCATION OF OVERHEAD UTILITIES. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
 - UNLESS OTHERWISE SHOWN, CALLED OUT OR SPECIFIED HEREON OR WITHIN THE SPECIFICATIONS ALL STORM DRAIN PIPES ARE MEASURED FROM CENTER OF STRUCTURES AND ENDS OF FLARED END SECTIONS.
 - THE CONTRACTOR IS TO CONTROL TRAFFIC FLOW DURING TIME OF CONSTRUCTION. ANY AND ALL TRAFFIC CONTROL IMPLEMENTED DURING THIS PROJECT SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
 - ALL WORK WITHIN PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH CITY OF WILMINGTON/NEW HANOVER COUNTY.
 - THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, AND PAY ALL PERMIT FEES. THE CONTRACTOR SHALL CONFORM TO ALL STATE AND LOCAL CODES AND ORDINANCES AND RECEIVE APPROPRIATE APPROVALS WHERE REQUIRED PRIOR TO COMMENCEMENT OF THE WORK.
 - ALL NEW STRUCTURES SHALL HAVE ANY SEDIMENT REMOVED PRIOR TO ACCEPTANCE.
 - CONTOUR LINES AND SPOT ELEVATIONS ARE THE RESULT OF A DETAILED ENGINEERING DESIGN AND REFLECT A PLANNED INTENT WITH REGARD TO EARTHWORK AND DRAINAGE. SHOULD CONTRACTOR HAVE QUESTIONS WITH THIS INTENT, HE SHALL CONTACT THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
 - ADJUST ALL CASTINGS TO MATCH FINISH GRADES.

STORM DRAINAGE STRUCTURES				
STRUCTURE	RIM ELEV.	INVERT ELEV.	TYPE	NOTE
CB1	52.50	46.66		
CB2	50.50	46.05		
CB3	50.50	46.59		
CB4	52.20	47.42		
CB5	51.25	47.12		
CB6	51.25	49.25		
CB7	50.00	47.34		
CB8	52.50	50.45		
CB9	52.50	49.82		
CB10	52.50	50.38		
CB11	52.40	51.06		
CB12	53.00	50.23		
CB13	53.00	49.75		
CB14	52.50	49.21		
CB15	51.50	47.24		
CB16	49.40	47.45		
CB17	52.25	49.49		
MH1	48.75	44.59		
MH2	52.50	45.00		
MH3	52.50	45.58		MATCH EXISTING GRADE
MH4	52.50	46.18		
MH5	51.03	47.39		
MH6	52.50	46.16		
MH7	51.90	46.78		
MH8	53.00	49.32		
MH9	54.50	49.78		FOR FUTURE IMPERVIOUS
DCB1	51.50	47.52		
DCB2	53.00	50.20		
DCB3	50.85	48.68		
NP1	53.90	48.75		10"
NP2	53.00	48.37		10"
NP3	54.00	52.68		10"
NP4	54.00	50.08		10"
NP5	53.20	49.60		10"
NP6	53.80	52.07		10"
NP7	53.90	52.07		10"
NP8	54.00	52.07		10"
NP9	53.70	50.83		10"
NP10	53.80	49.98		10"
NP11	54.20	50.00		10"
NP12	54.20	50.30		10"
NP13	54.50	51.89		10"
NP14	52.50	47.73		10"
EW1				
EW2				
EW3		49.00		FORM ENDWALL AROUND BOTH PIPES
EW4				
EW5		49.00		
EW6				
EW7		49.00		FORM ENDWALL AROUND BOTH PIPES
EW8		48.80		
EW9		49.00		
OS1	51.25	47.90		
OS2	52.20	44.94		
OS3	51.75	48.00		
OS4	51.75	48.00		
OS5	53.00	46.96		

DRAINAGE PLAN



JJCA



New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC



Cumulative Sheet Re-issue
May 8, 2017
(Individual revisions clouded and labeled within sheet)



PROJECT NUMBER
15678.01
DATE
January 13, 2017

C402
DRAINAGE
PLAN

ADD#1

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

CITY OF WILMINGTON
NORTH CAROLINA

Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

Signed: _____

CITY OF WILMINGTON
NORTH CAROLINA

Approved Construction Plan

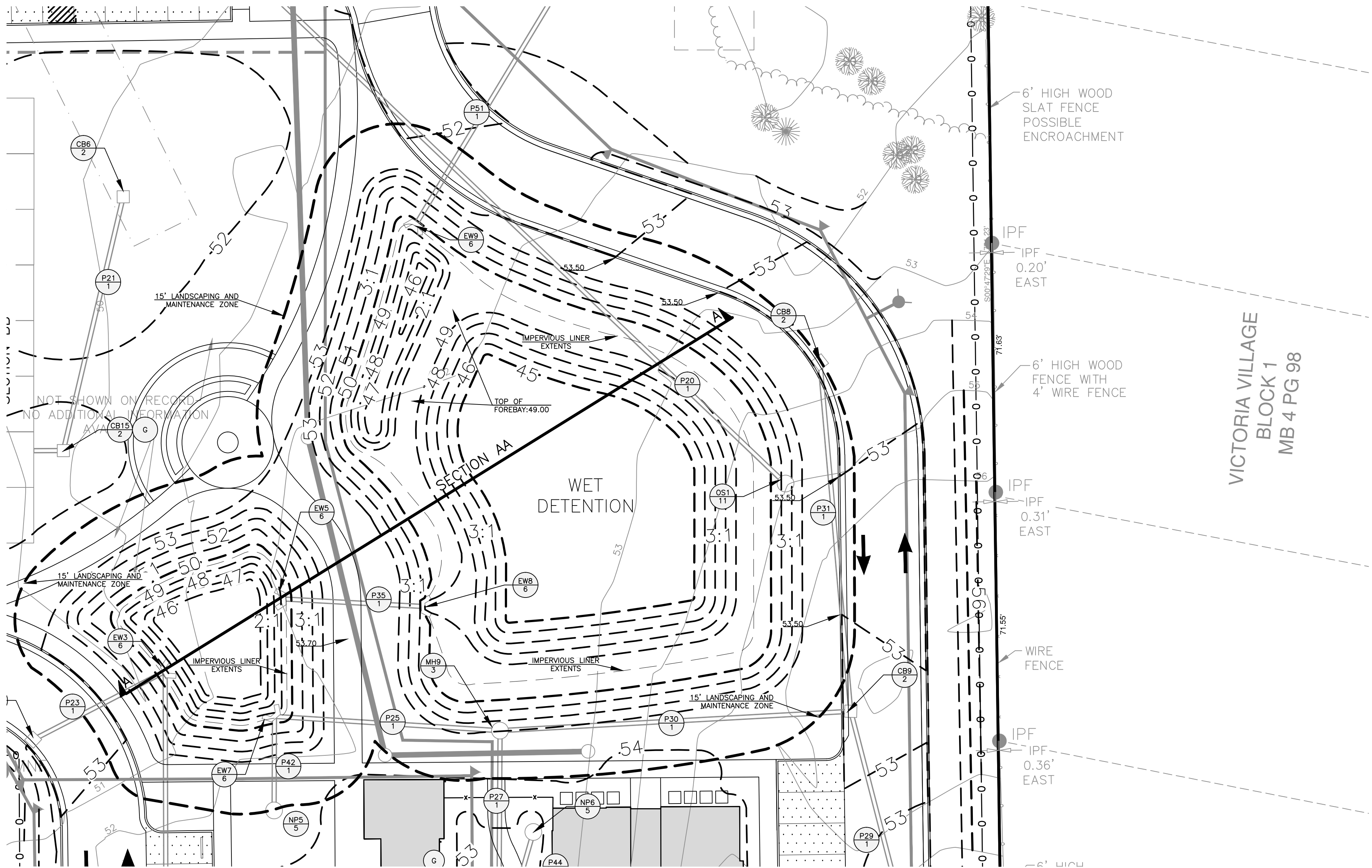
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Date _____

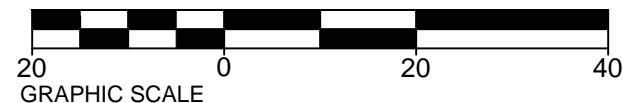
Planning _____

Traffic _____

Fire _____



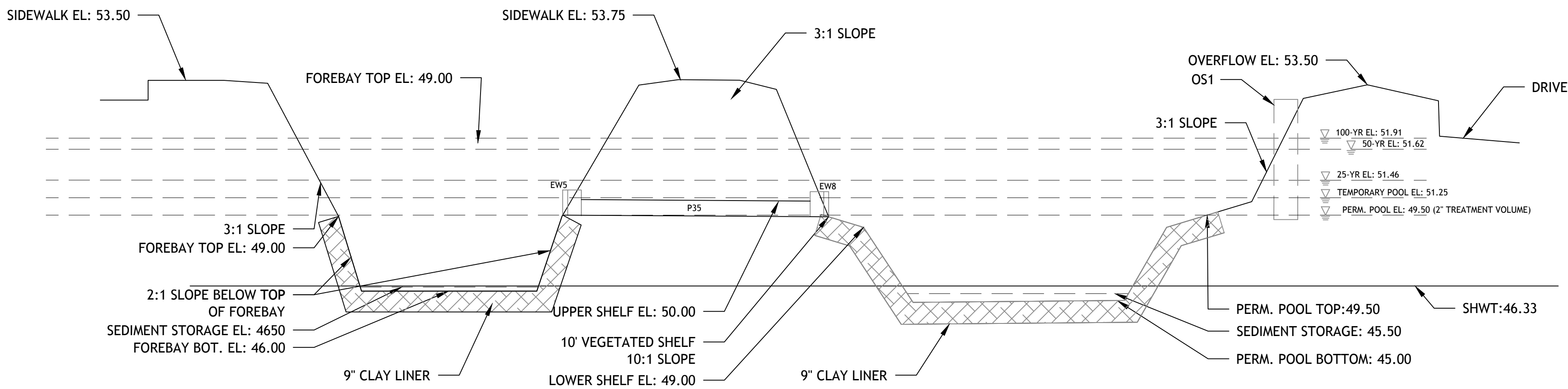
WET DETENTION POND (BMP#1)



ADD#3

CONSTRUCTION SEQUENCE

1. Pond excavation depths should account for any impervious liners, plant matter, and/or planting soil required.
2. The subsoil must be free of hard clods, stiff clay, hardpan, ashes, slag, construction debris, petroleum hydrocarbons, and other undesirable materials and must not be frozen or in a muddy state.
3. During all phases of work, including transport and on-site handling, the plant materials must be carefully handled and packed to prevent injury and/or desiccation of the plants. Plant material should be kept from freezing and kept moist, cool, and covered so as to protect the plants from any precipitation, wind, and/or sun. Plants must be watered to maintain moist soil and/or plant conditions until accepted.
4. Pond should be cleaned out and graded to the depths and extents shown on the grading plan once the site is stabilized.

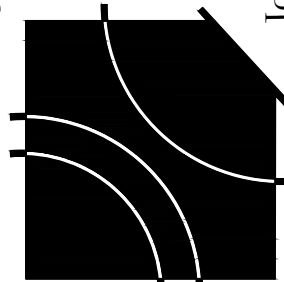


SECTION AA
(NTS)

ASI#3

SHEET REVISED

JJCA



New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC

ACADIA
HEALTHCARE



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May 8, 2017

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INGRAM CIVIL
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PROFESSIONAL ENGINEER
LICENSE # 022243
CURTIS P. INGRAM

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C404
DRAINAGE
SECTION

ADD#1

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CITY OF WILMINGTON
NORTH CAROLINA

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APPROVED STORMWATER MANAGEMENT PLAN

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NORTH CAROLINA

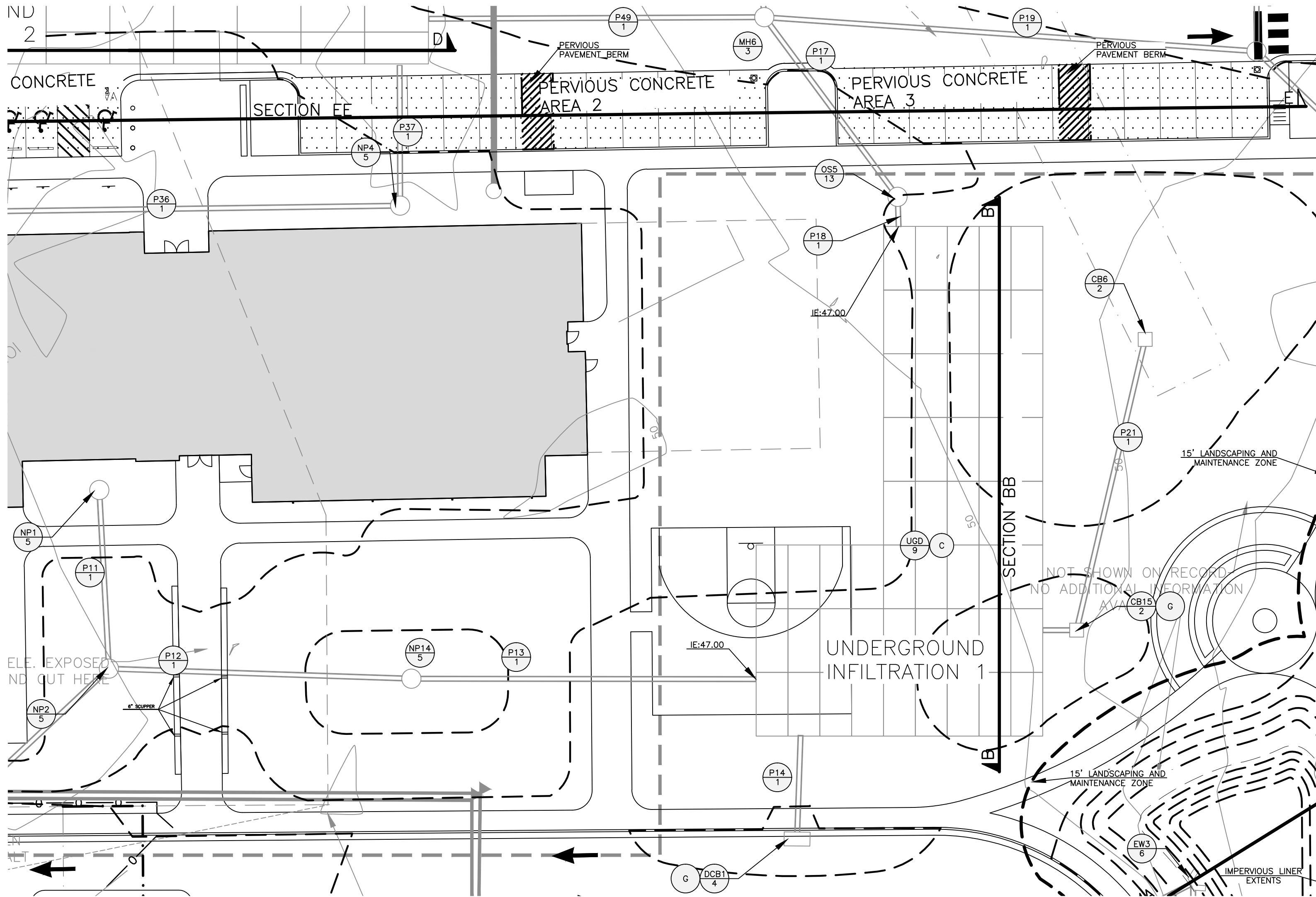
Approved Construction Plan

Name _____ Date _____

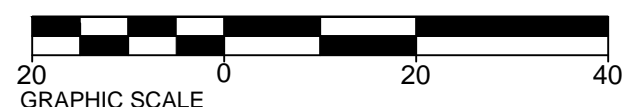
Planning _____

Traffic _____

Fire _____



UNDERGROUND INFILTRATION 1 (BMP#2)

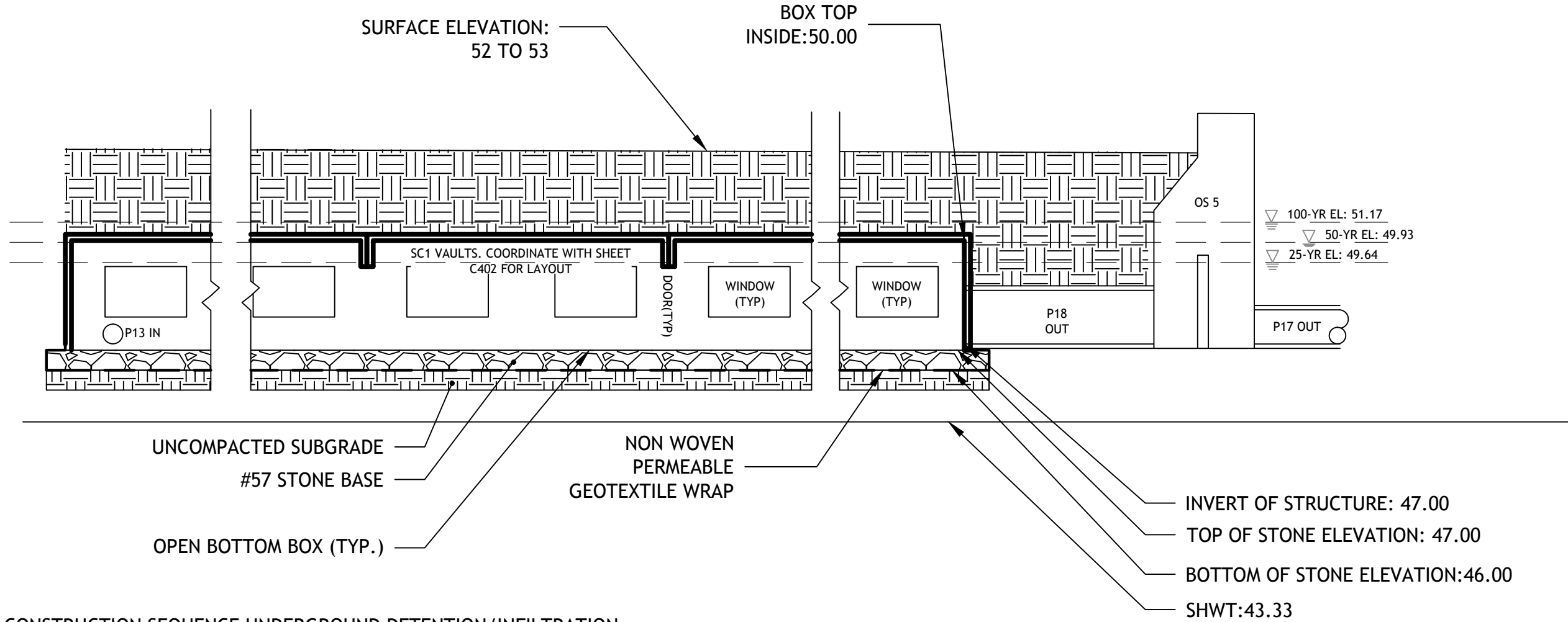


1" = 20'



ADD#3

Depth (ft)	Elevation	Area (ft^2)	Cumulative Volume (ft^3)
0	46.00	2,288	0
0.99	46.99	2,288	2,265
1	47.00	5,720	2,305
2	48.00	5,720	8,025
3	48.00	5,720	13,745
4	50.00	5,720	19,465
4.01	50.01	5	19,494
5	51.00	5	19,499
6	52.00	5	19,504
7	53.00	5	19,509



CONSTRUCTION SEQUENCE UNDERGROUND DETENTION/INFILTRATION

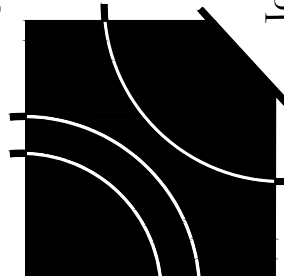
1. Provide erosion and sedimentation control protection on the site such that construction runoff is directed away from the proposed subsurface detention SMP.
2. Excavate subsurface detention area to proposed depth, providing appropriate shoring and sheeting for deep excavations.
3. Place geotextile in accordance with manufacturer's standards and recommendations.
4. Secure geotextile at least four feet outside bed.
5. Confirm storage area dimensions and outlet control elevations prior to backfill.
6. Place stone per detail detail and manufacturer's recommendations.
7. Place storage in accordance with manufacturer's recommendations.
8. Confirm the storage volume prior to backfill.
9. Confirm and document invert elevations and dimensions for all structures such as vaults and pipes prior to backfill.
10. Backfill to finished grade. Ensure backfill is properly compacted in accordance with specifications. Ensure backfill process does not disrupt pipe placement and configuration.
11. Structures such as inlet boxes, reinforced concrete boxes, inlet controls, and outlet controls must be constructed according to manufacturer's guidelines or design professional's guidance.
12. Once the site is permanently stabilized with vegetation, remove temporary erosion and sediment control measures.

SECTION BB
(NOT TO SCALE)

ASI#3

SHEET REVISED

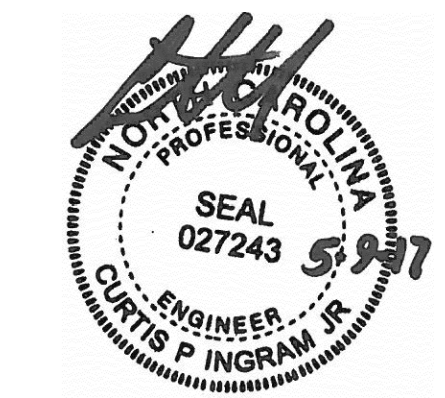
JJCA



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ACADIA
HEALTHCARE



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C405
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NORTH CAROLINA

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CITY OF WILMINGTON
NORTH CAROLINA

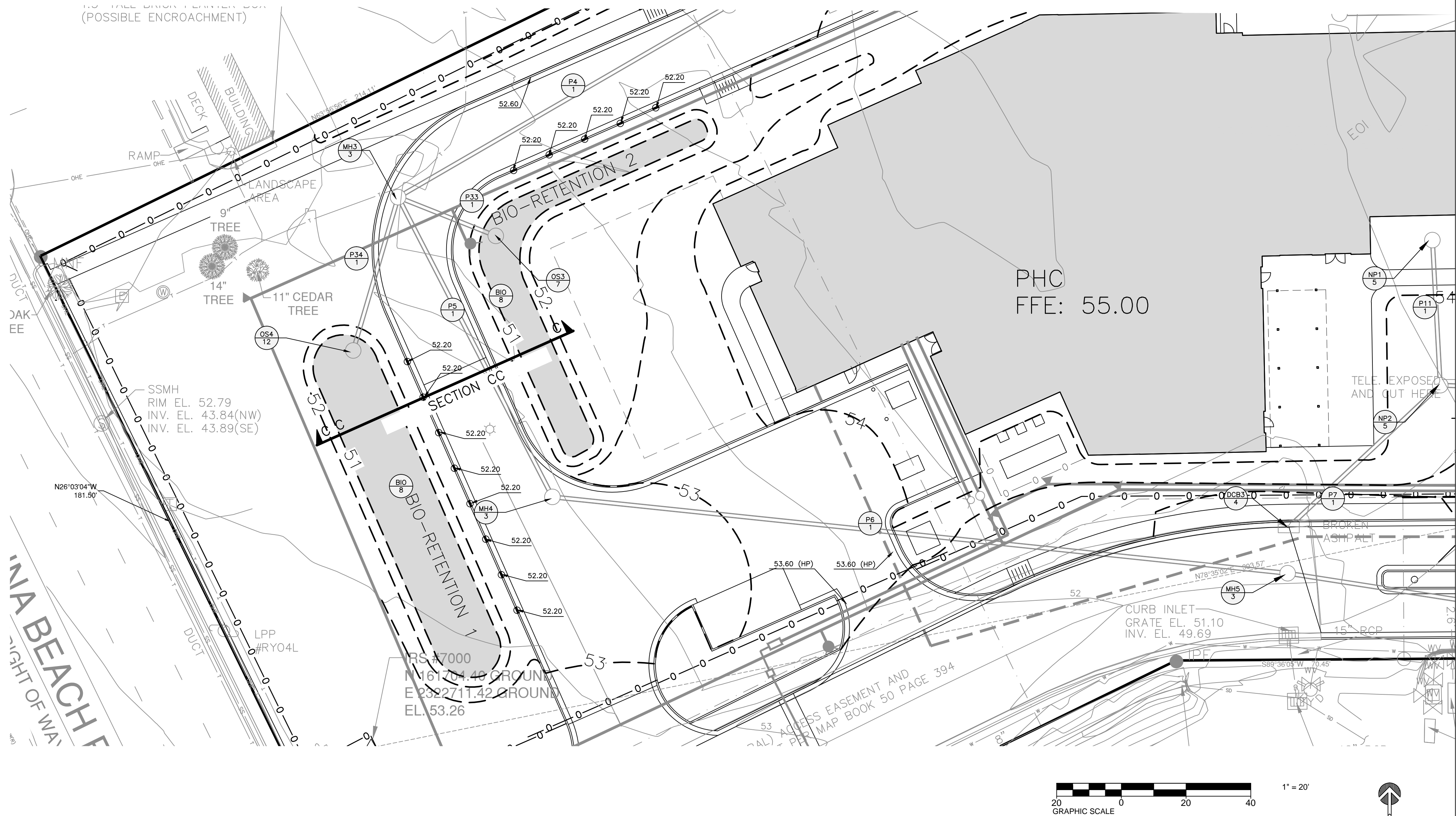
Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

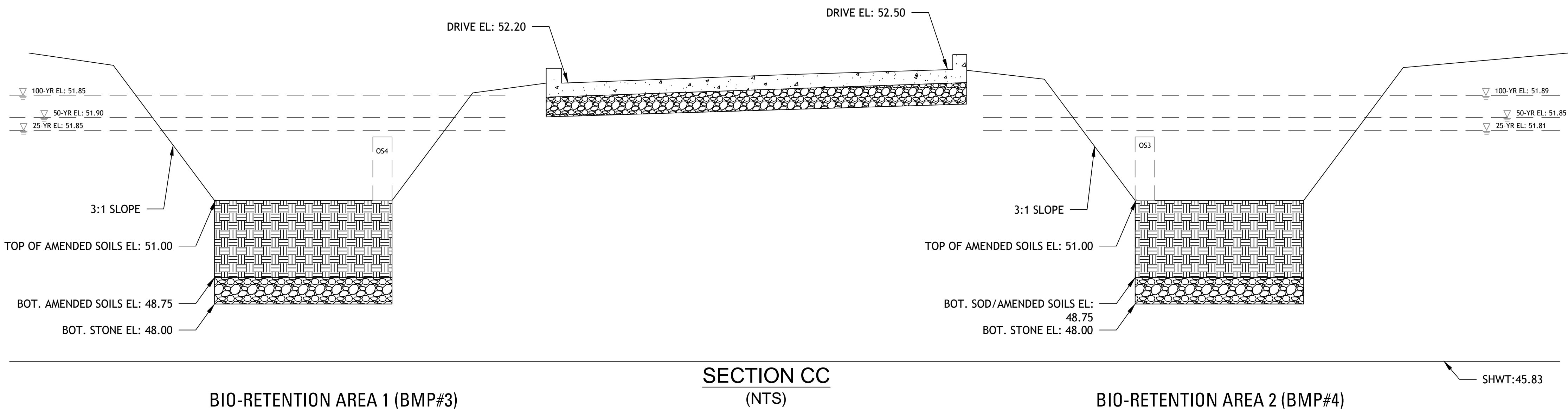
Fire _____



ADD#3

CONSTRUCTION SEQUENCE

1. Provide erosion and sedimentation control protection on the site such that construction runoff is directed away from the proposed bioinfiltration/bioretenention location.
2. Bioinfiltration areas must be physically marked prior to any land-disturbing activities to avoid soil disturbance and compaction during construction. Install construction fencing around bioinfiltration areas.
3. Proposed bioretention areas may be used as sediment traps during construction. Bioinfiltration areas may not be used as sediment traps during construction, unless at least two feet of soil are left in place while the area is serving as a sediment trap and subsequently removed during construction after the contributing drainage areas have been stabilized.
4. Complete site elevation grading and stabilize the soil disturbed within the limits of disturbance. Do not finalize bioinfiltration/bioretenention excavation and construction until the drainage area is fully stabilized.
5. Excavate bioinfiltration/bioretenention area to proposed invert depth and manually scarify the in situ soils at the base of the excavation. Do not compact in situ soils. Heavy equipment must not be used within the bioinfiltration area. All equipment must be kept out of the excavated area to the maximum extent possible. The use of machinery to load any proposed stone from outside of the basin footprint is recommended. Rock construction entrances must not be located on top of areas proposed for infiltration practices. Heavy equipment exclusion zones must be established to avoid compaction of the infiltration area during construction.
6. Perform infiltration testing (if testing was deferred until construction).
7. For bioinfiltration SMPs, where infiltration is feasible, ensure underdrains are equipped with a water-tight end cap within the outlet control structure.
8. For bioretention basins, where infiltration is infeasible, convert the underdrain to a flow-regulating underdrain by drilling an appropriately-sized orifice in the center of a water-tight underdrain cap center within the outlet control structure.
9. Any stone within the infiltration SMP must remain free of sediment and meet the washed stone specification found above. If sediment enters the stone, the contractor may be required to remove the sediment and replace with clean washed stone.
10. Place filter fabric or pea gravel filter, then place the stone, and set the underdrain according to the plans.
11. Backfill the excavated area as soon as the subgrade preparation is complete to avoid accumulation of debris. Place bioinfiltration/bioretenention soil in 12- to 18-inch lifts, and tamp lightly by hand or compact by watering each lift. Ensure backfill process does not disrupt pipe placement and configuration. Slight overfilling might be necessary to account for settlement.
12. Presoak the soil at least one day prior to final grading and landscaping to allow for settlement.
13. After allowing for settlement, complete final grading within about two inches of the proposed design elevations, leaving space for top dressing of mulch or mulch/compost blend.
14. Seed and plant vegetation as indicated on the plans and specifications.
15. Place mulch and hand grade to final elevations.
16. Install energy dissipaters as specified on the plans, if applicable.
17. Water vegetation at the end of each day for two weeks after planting is completed.
18. Water vegetation regularly during first year to ensure successful establishment.



ASI#3

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JJCA

New Partial Hospitalization Center for:
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ACADIA
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CURTIS P. INGRAM

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C406
DRAINAGE
SECTION

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.



Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

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Approved Construction Plan

Name _____

Date _____

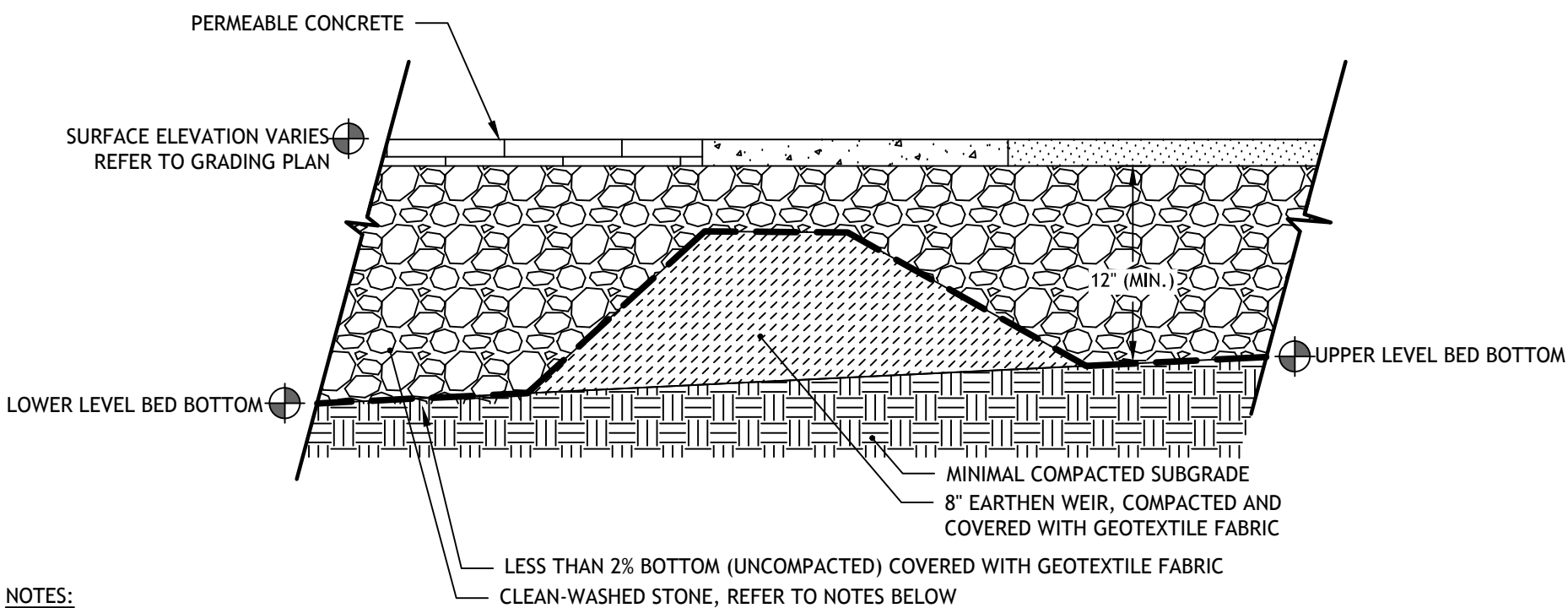
Planning _____

Traffic _____

Fire _____

CONSTRUCTION SEQUENCE

1. Areas for porous pavement systems must be clearly marked before any site work begins to avoid soil disturbance and compaction during construction.
2. Excavate porous pavement subsurface area to proposed depth. Excavation should take place after contributing upstream disturbed areas have been permanently stabilized. If this is impractical, install PWD-approved erosion and sedimentation control Best Management Practices (BMPs) to prevent runoff and sediment from entering the excavated bed. Where erosion of subgrade has caused accumulation of fine materials and/or surface ponding, this material must be removed with light equipment and the underlying soils scarified to a minimum depth of six inches with a York rake or equivalent and light tractor.
3. Existing subgrade must not be compacted and construction equipment traffic must be minimized prior to placement of the geotextile and stone bed. The use of machinery to load stone from outside of the basin footprint is recommended. If it is essential that equipment be used in the excavated area, all equipment must be approved by the engineer. Equipment with narrow tracks or tires, rubber tires with large lugs, or high pressure tires will cause excessive compaction and must not be used. Should the subgrade be compacted during construction, additional testing of soil infiltration rates and system redesign may be required. Rock construction entrances must not be located on top of areas proposed for infiltration practices.
4. Bring subgrade of stone infiltration bed to line, grade, and elevations indicated in the drawings, while avoiding compaction. The bottom of the infiltration bed must be at a level grade.
5. Place geotextile and recharge bed aggregate immediately after approval of subgrade preparation to prevent accumulation of debris or sediment. Aggregate installation should take place after contributing upstream disturbed areas have been permanently stabilized. Install approved erosion and sedimentation control BMPs to prevent runoff and sediment from entering the storage bed during the placement of the geotextile and aggregate bed.
6. Place geotextile in accordance with manufacturer's standards and recommendations. Adjacent strips of filter fabric must overlap a minimum of 16 inches. Fabric must be secured at least four feet outside of bed. This edge strip should remain in place until all bare soils contiguous to beds are stabilized and vegetated. As the site is fully stabilized, excess geotextile can be cut back to the edge of the bed.
7. Install aggregate course in lifts of six to eight inches. Compact each layer with equipment, keeping equipment movement over storage bed subgrades to a minimum. Install aggregate to grades indicated on the drawings.

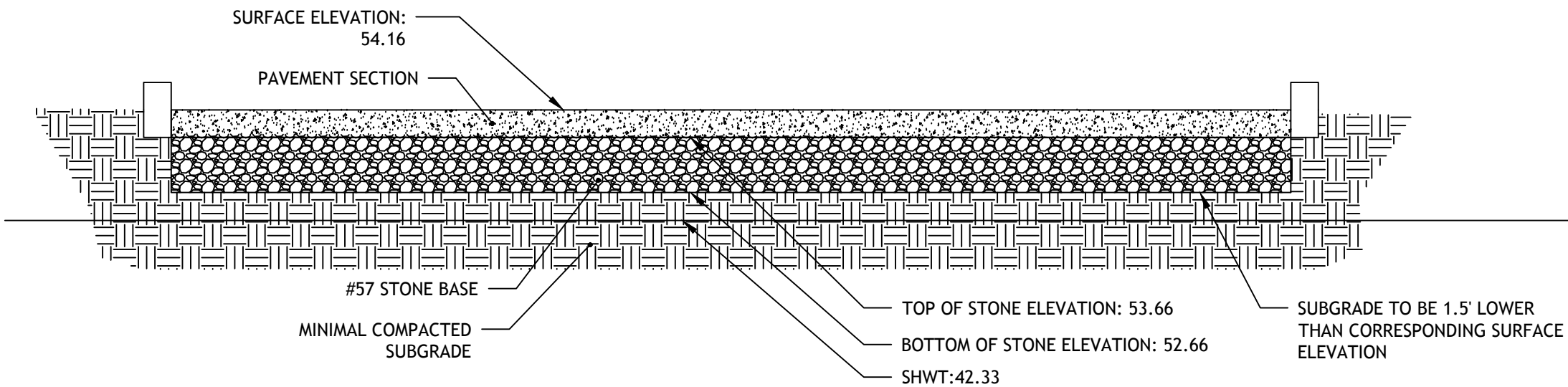
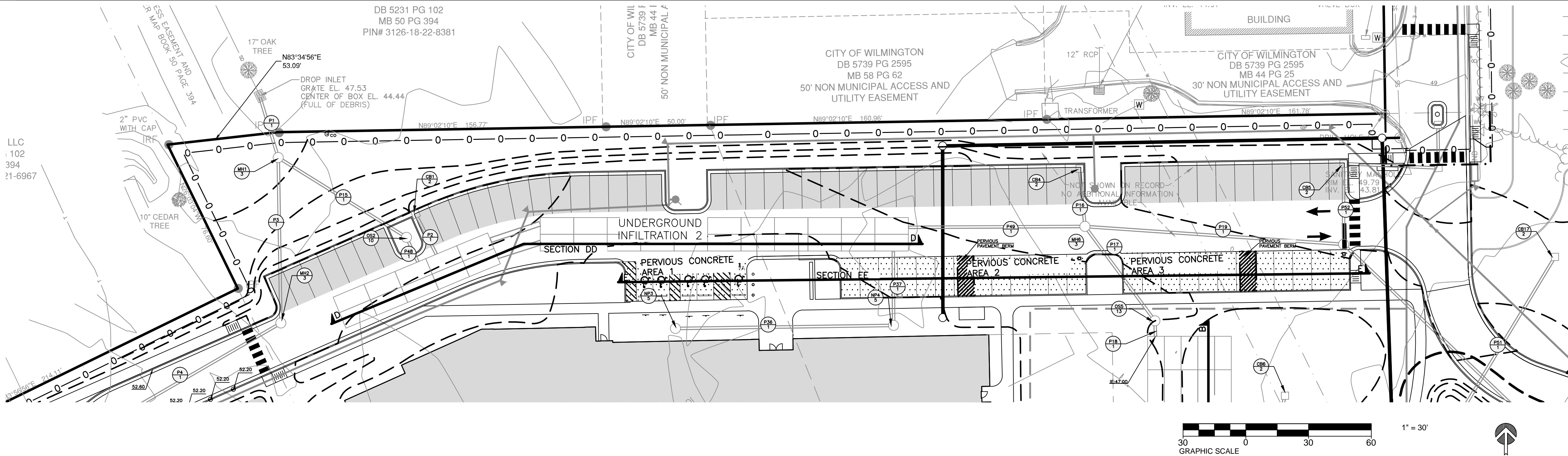


NOTES:

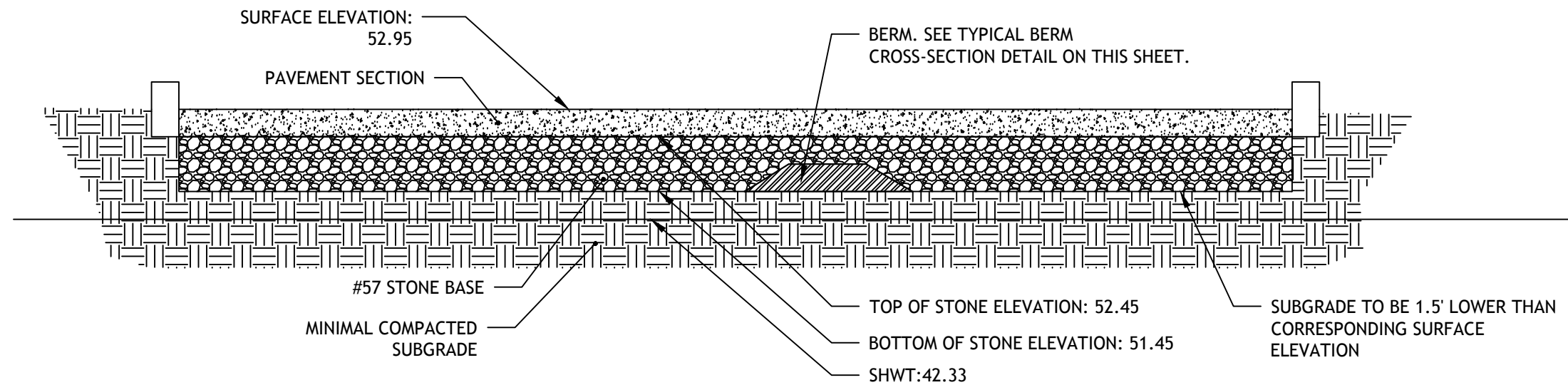
1. ALL AGGREGATES WITHIN POROUS PAVER BED SHALL BE CLEAN-WASHED, DEFINED AS HAVING LESS THAN 0.5% WASH LOSS, BY MASS, WHEN TESTED PER THE AASHTO T-11 WASH LOSS TEST.
2. GEOTEXTILE SHALL CONSIST OF POLYPROPYLENE FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:
GRAB TENSILE STRENGTH (ASTM-D4632) > OR = 120 LBS.
MULLEN BURST STRENGTH (ASTM-D3786) > OR = 225 LBS.
FLOW RATE (ASTM-D4491) > OR = 95 GAL./MIN./FT²
UV RESISTANCE AFTER 500 HRS. (ASTM-D4355) > OR = 70%
HEAT-SET OR HEAT CALENDARED FABRICS ARE NOT PERMITTED

TYPICAL BERM CROSS-SECTION DETAIL

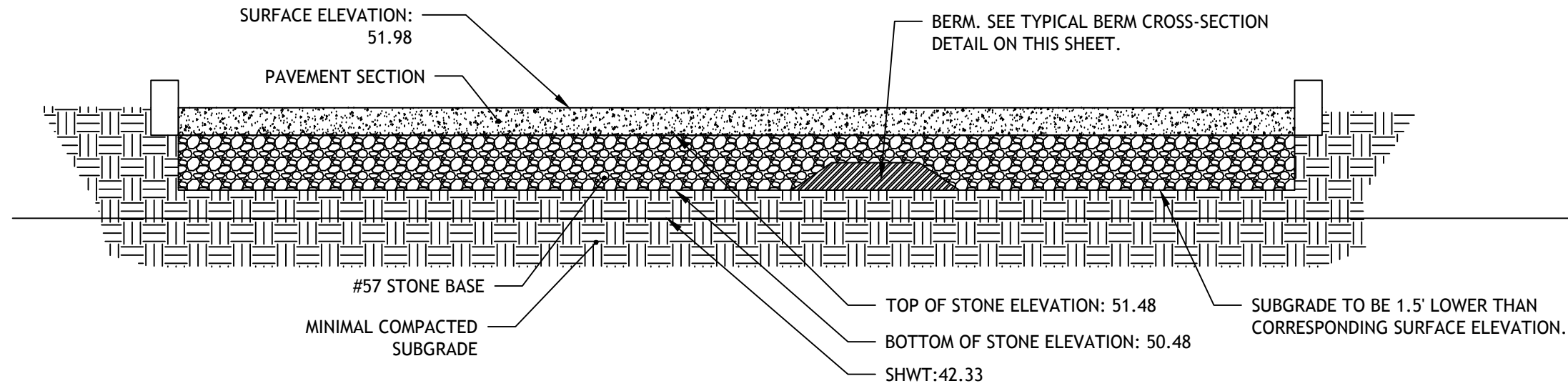
N.T.S.



PERVIOUS CONCRETE SECTION AREA 1 (BMP#6)
(NOT TO SCALE)



PERVIOUS CONCRETE SECTION AREA 2 (BMP#7)
(NOT TO SCALE)



PERVIOUS CONCRETE SECTION AREA 3 (BMP#8)
(NOT TO SCALE)

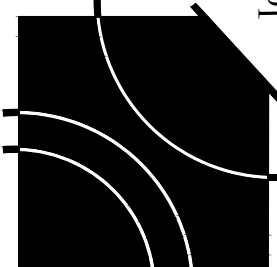
ASH#3

SHEET REVISED

ADD#3

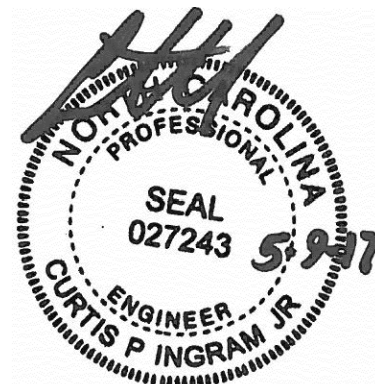
SHEET ADDED

JJCA



New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC

ACADIA
HEALTHCARE



Cumulative Sheet Re-issue

May 8, 2017

(Individual revisions clouded and labeled within sheet)



PROJECT NUMBER

15678.01

DATE

January 13, 2017

C408

DRAINAGE
SECTION

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

CITY OF WILMINGTON
NORTH CAROLINA

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

Signed: _____

CITY OF WILMINGTON
NORTH CAROLINA

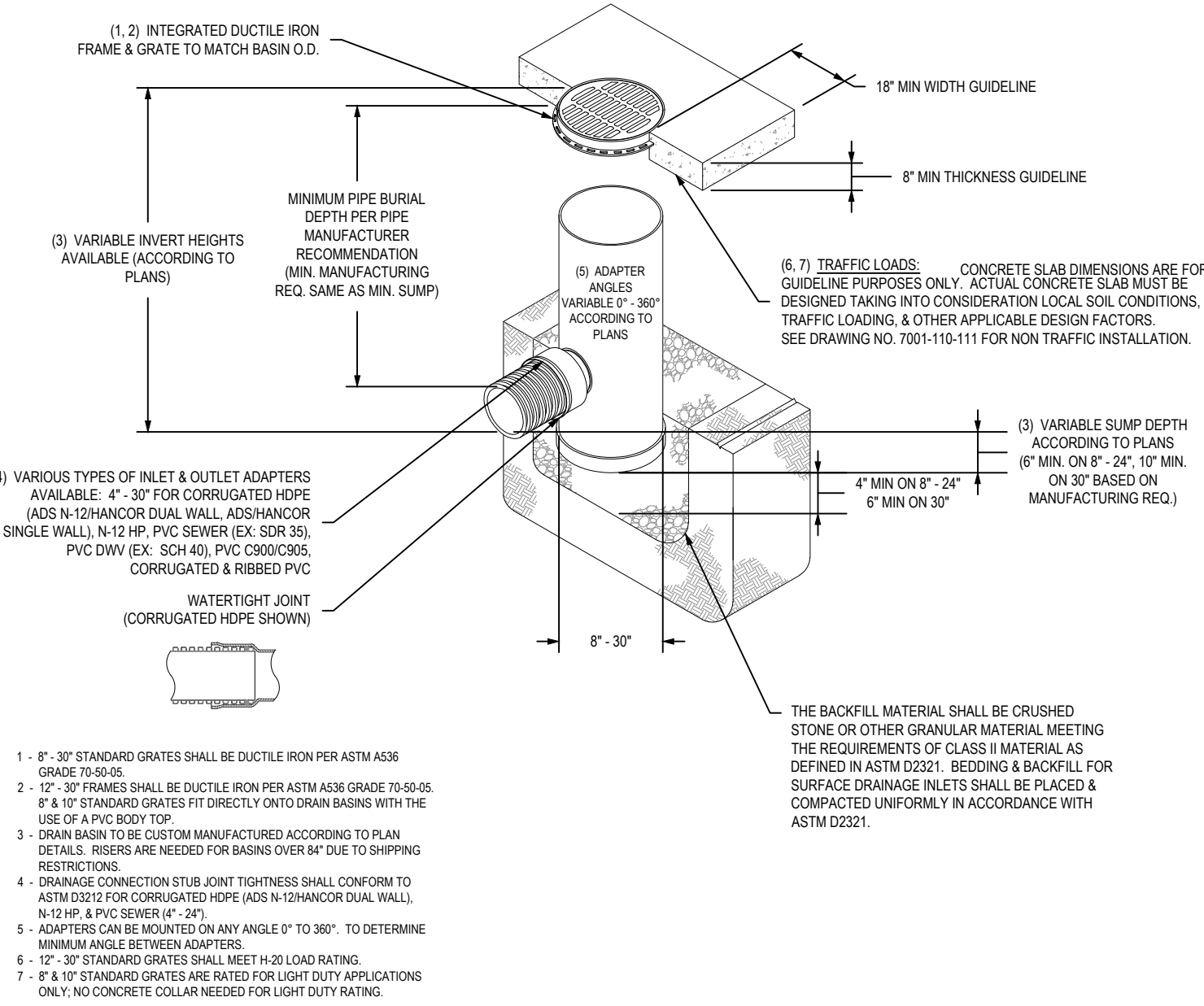
Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

Fire _____

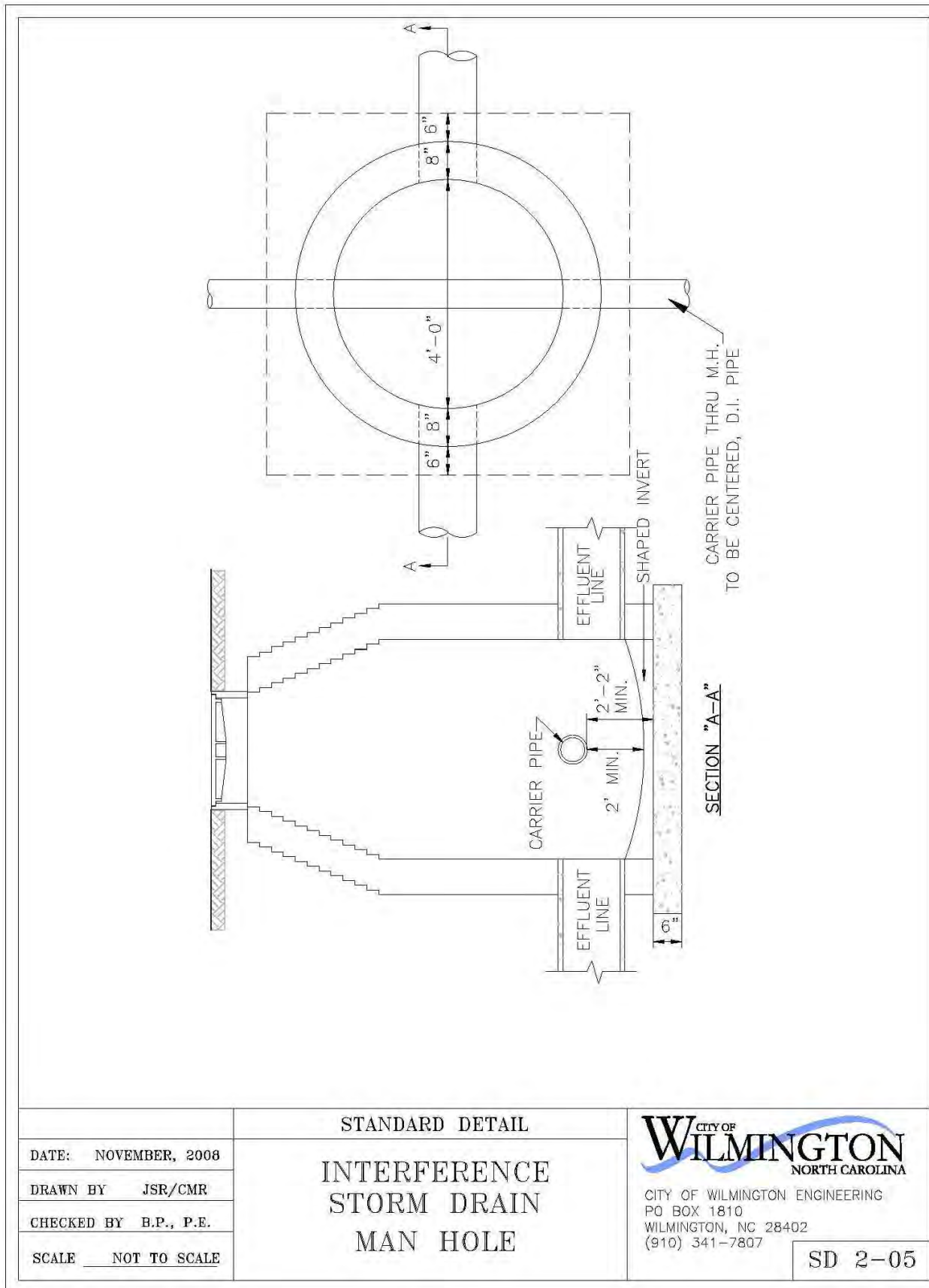


NYLOPLAST DRAIN BASIN WITH GRATE

(NOT TO SCALE)

NP
5

ADD#3



MH
3

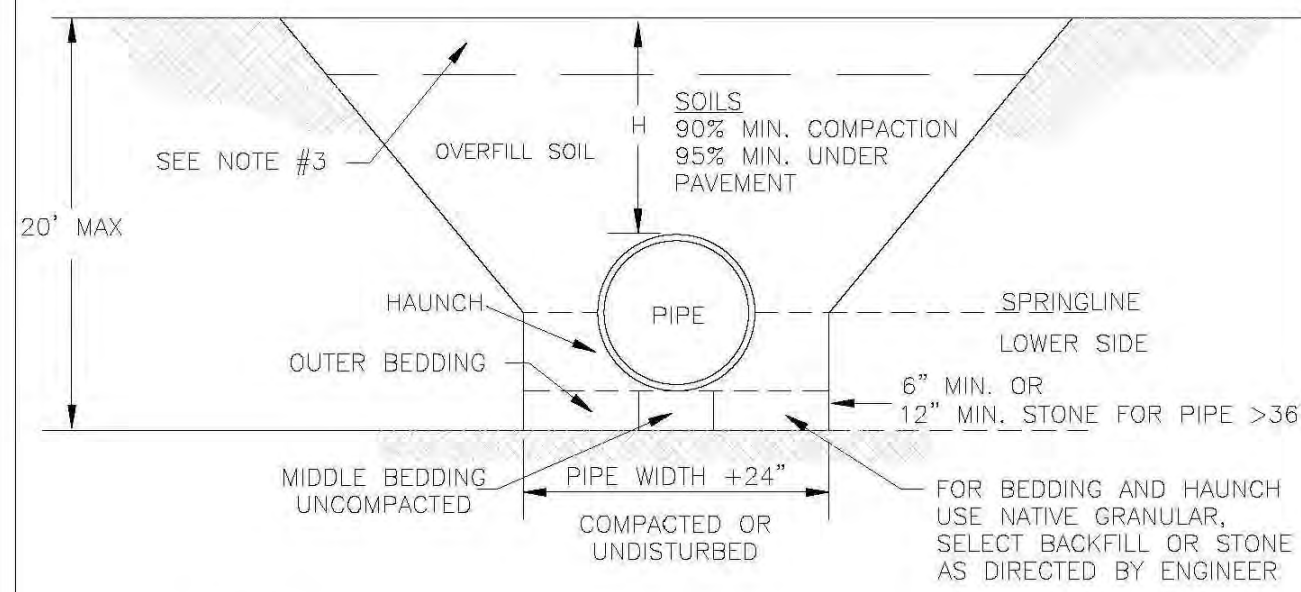
MANHOLE

(NOT TO SCALE)

TB
1

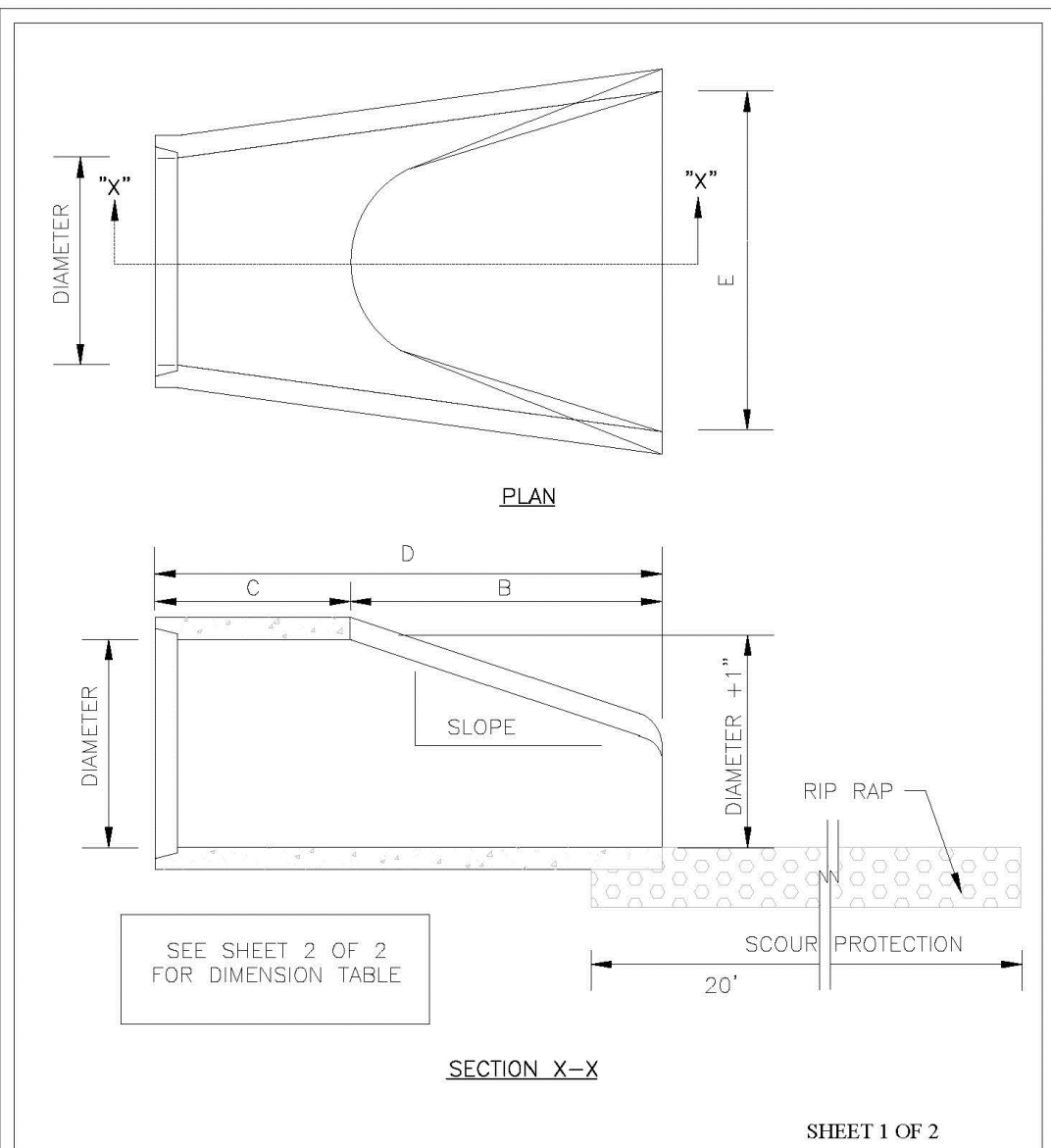
TRENCH AND BEDDING

(NOT TO SCALE)



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.



EW
6

NOTE:

1. STRUCTURAL DESIGN OF END SECTION SHALL CONFORM WITH THAT OF STANDARD REINFORCED CONCRETE.

PIPE DIAMETER	WALL THICKNESS	SLOPE	B	C	D	E	UNIT WEIGHT
12	2 1/4	3:1	24	49	73	24	730
15	2 1/4	3:1	27	46	73	30	910
18	2 1/2	3:1	27	46	73	36	1190
21	2 3/4	3:1	36	37	73	42	1370
24	3	3:1	42	31 1/2	73 1/2	48	1770
27	3 1/4	3:1	48	25 1/2	73 1/2	54	2130
30	3 1/2	3:1	54	19 3/4	73 3/4	60	2380
33	3 3/4	3:1	60	36	96	66	3870
36	4	3:1	63	34 3/4	97 3/4	72	5320
42	4 1/2	3:1	63	35	98	78	5920
48	5	3:1	72	26	98	84	7470
54	5 1/2	2.4:1	66	34	100	90	8810
60	6	2:1	60	39	99	96	11180
72	7	2:1	78	21	99	108	13980

DIMENSIONS IN INCHES WEIGHTS IN POUNDS

DATE: 2008

DRAWN BY: JSR/CMR

CHECKED BY: B.P., P.E.

SCALE: NOT TO SCALE

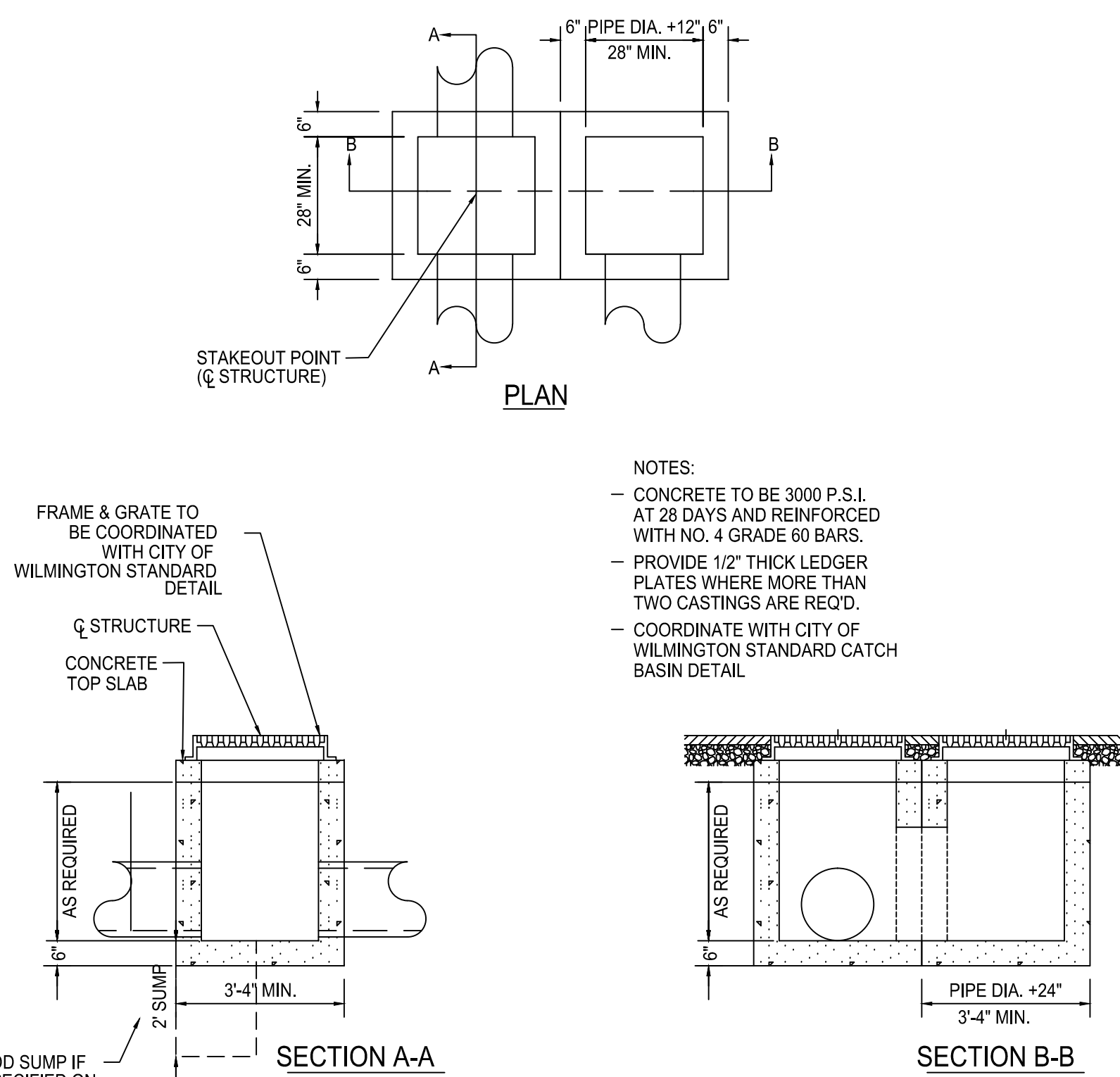
STANDARD DETAIL

FLARED END SECTION OUTLET DIMENSION TABLE

CITY OF WILMINGTON NORTH CAROLINA

CITY OF WILMINGTON ENGINEERING OFFICE
PO BOX 1810
WILMINGTON, NC 28402
(910) 341-7807

SD 1-17



DCB
4

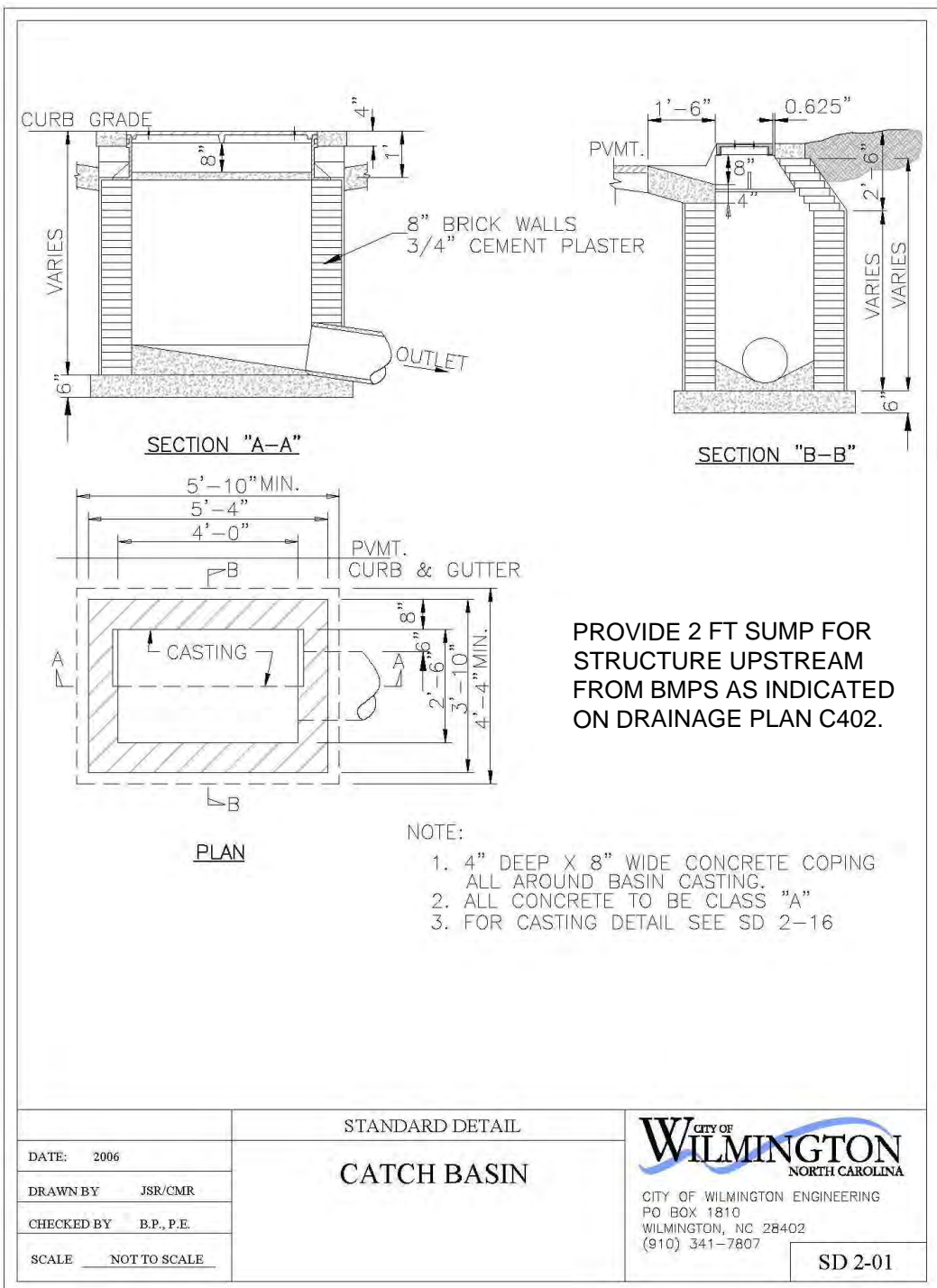
CATCH BASIN-2 SINGLE PRECAST AREA INLETS

(NOT TO SCALE)

CB
2

CATCH BASIN

(NOT TO SCALE)



- 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

ACADIA
HEALTH CARE



Cumulative Sheet Re-issue

May 8, 2017

(Individual revisions clouded and labeled within sheet)

INGRAM CIVIL ENGINEERING GROUP, LLC
212 OVERLOOK CIRCLE, STE. 105
BRENTWOOD, TENNESSEE 37027
615.370.7964 OFFICE
615.370.1273 FAX
STATE OF NORTH CAROLINA
PROFESSIONAL ENGINEER
LICENSE # 027243
CURTIS P. INGRAM

PROJECT NUMBER
15678.01
DATE
January 13, 2017

C410
DRAINAGE
DETAILS

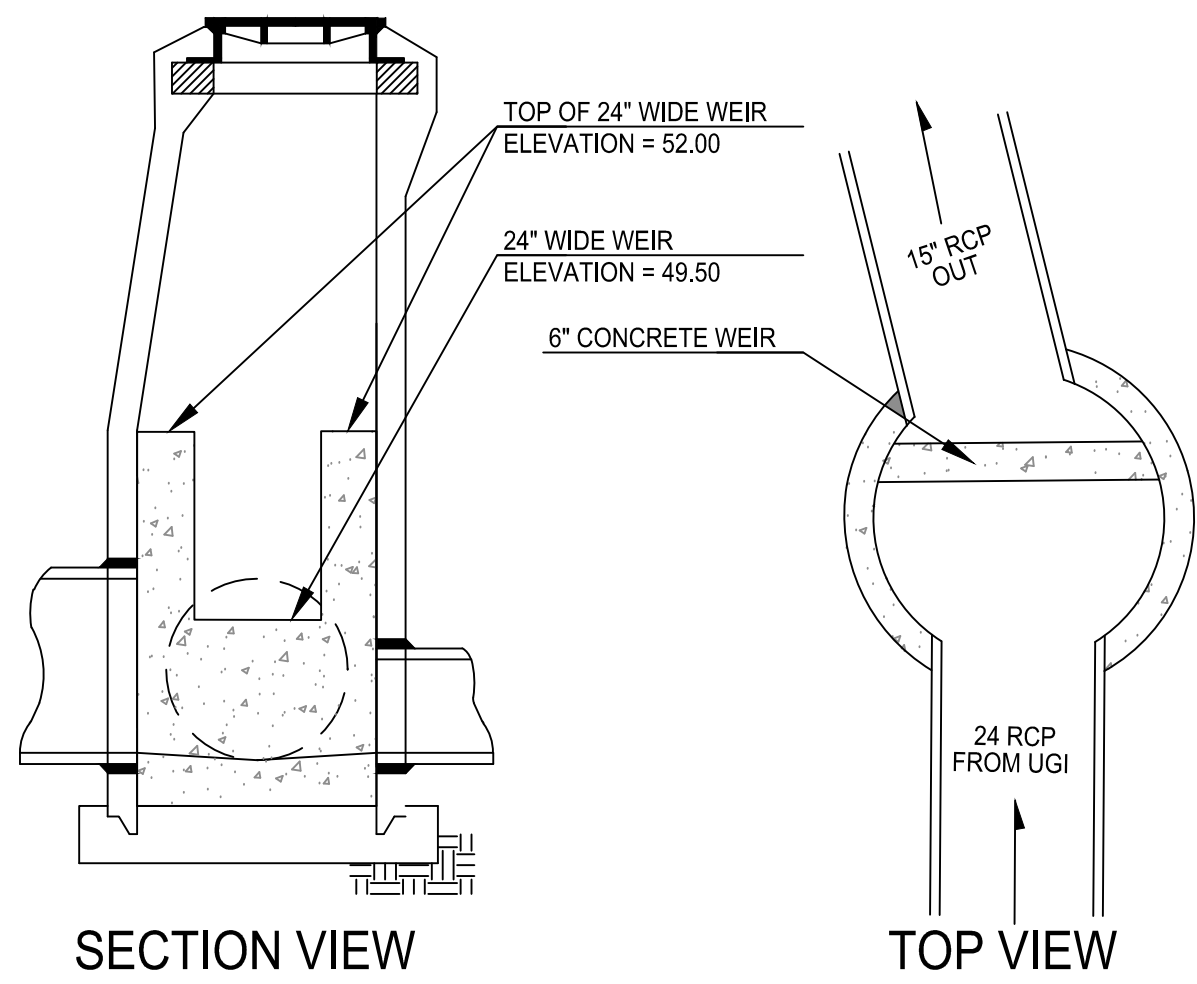
JJC A

New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC



Johnson Johnson
Crabtree Architects P.C.
4551 Trousdale Drive
Nashville, TN 37204
tel 615.837.0656
fax 615.837.0657

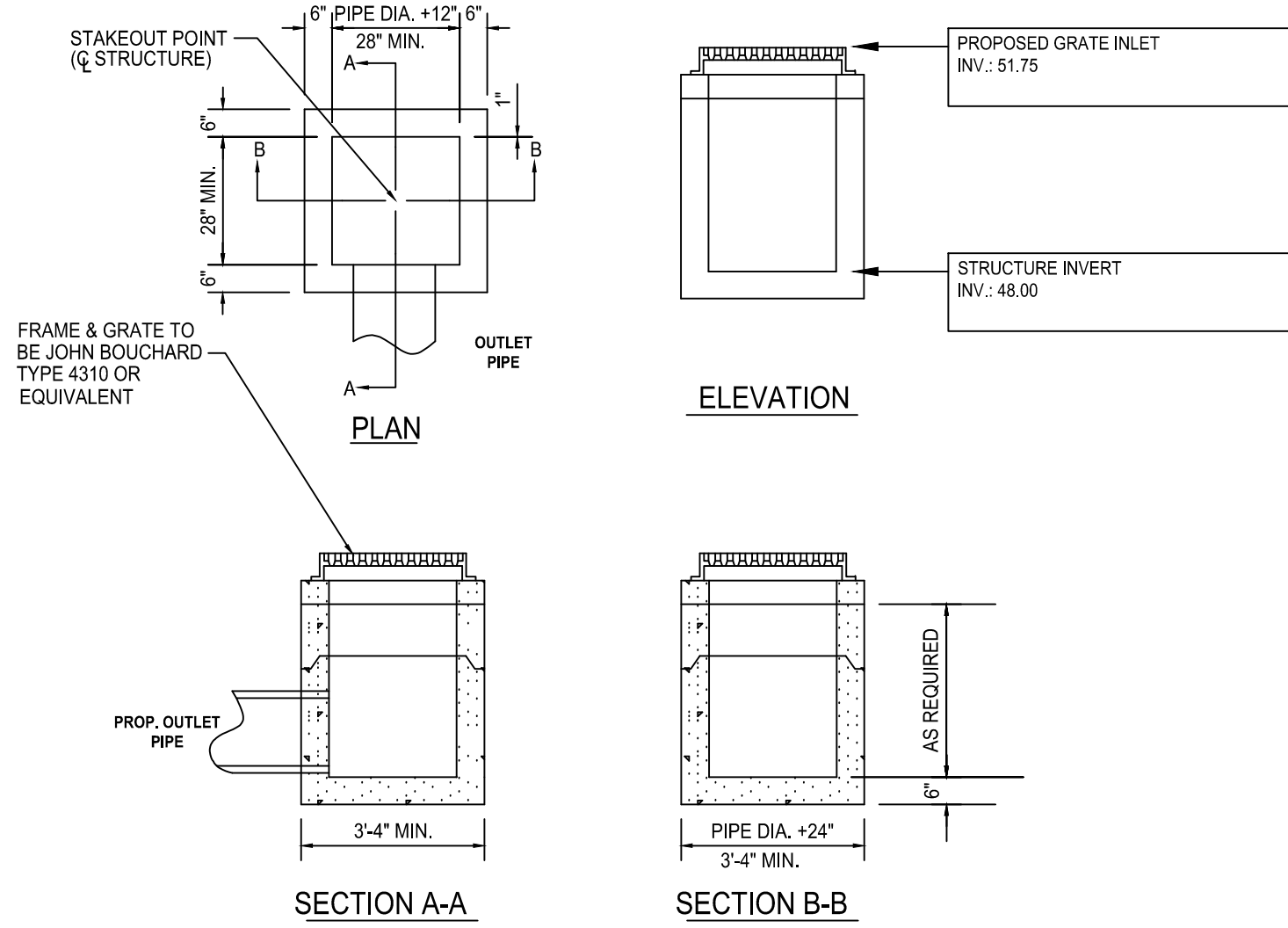
ADD#3



NOTE: COORDINATE MANHOLE
WITH CITY MANHOLE DETAIL

UNDERGROUND INFILTRATION 1 OUTLET STRUCTURE
(NOT TO SCALE)

OS5
13



COORDINATE WITH TECHNICAL SPECIFICATIONS

BIO 1 OUTLET STRUCTURE
(NOT TO SCALE)

OS4
12

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Public Services • Engineering Division

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Signed: _____



Approved Construction Plan

Name _____

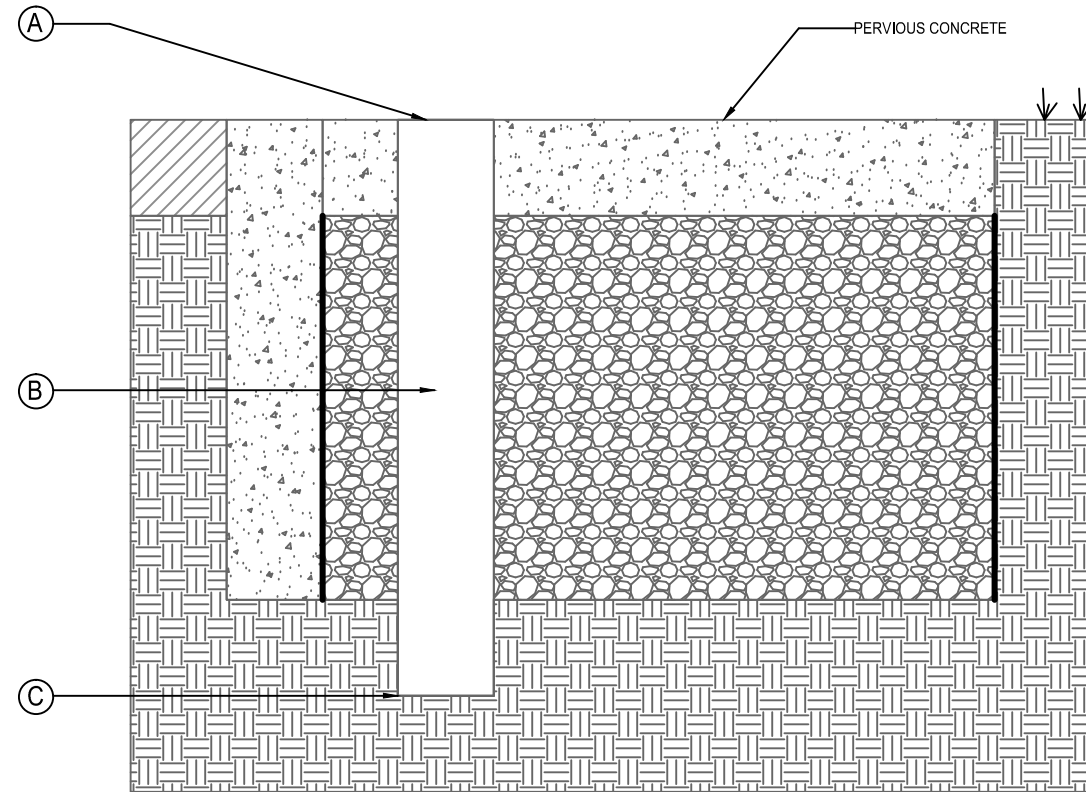
Date _____

Planning _____

Traffic _____

Fire _____

ASI#3

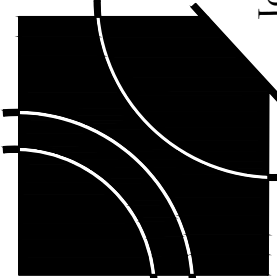


- (A) TRAFFIC RATED CAP FLUSH WITH PERMEABLE CONCRETE LAYER
- (B) 6" DIAMETER PERFORATED PIPE
- (C) INSERT 6" INTO SOIL SUBGRADE

OBSERVATION WELL
(NOT TO SCALE)

OW
13

JJCA



New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC



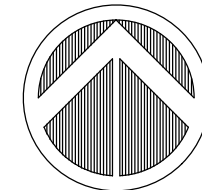
Cumulative Sheet Re-issue
May 8, 2017

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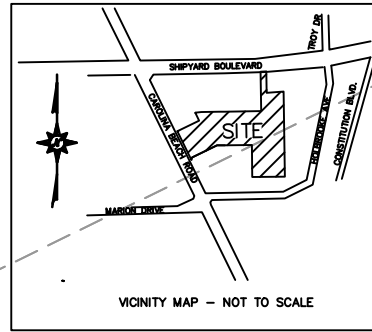
PROJECT NUMBER
15678.01
DATE
January 13, 2017

C412
DRAINAGE
DETAILS



NC GRID (NAD 83/2011)

SCALE: 1" = 40'



SITE PLANTINGS

MITIGATION

PROTECTED TREES TO BE REMOVED = 334" DBH
REQ. MITIGATION (DBH x 2 / 3) = 223 REPLACEMENT TREES

MITIGATION TREES

QTY	TYPE	PERCENTAGE	# OF TREES
9	24" OAK	100%	144 TREES
2	26" OAK	100%	35 TREES
1	30" OAK	100%	20 TREES
1	36" OAK	100%	24 TREES
TOTAL REPLACEMENT TREES			223 TREES

CREDIT FOR PRESERVED TREES

119 PRESERVED TREES = CREDIT OF 262 TREES

# OF PRESERVED TREES	PRESERVED TREE SIZE	CREDIT	RESULTING CREDIT
33	6-11"	= 2	66
31	12-17"	= 3	93
11	18-23"	= 4	44
352"	>24"	= (DBH/6)	59

*NO ADDITIONAL MITIGATION IS REQUIRED WITH CREDIT APPLIED

*EXISTING VEGETATION TO BE REVIEWED WITH THE CITY TO VERIFY IF ADDITIONAL PLANTINGS WILL BE REQUIRED

15 TREES PER DISTURBED ACRE (PRESERVED OR PLANTED)
TOTAL DISTURBED AREA= 351,790 SF (8 AC)
REQUIRED TREES= 120
PROVIDED TREES= FULLFILLED THROUGH PRESERVED TREE CR.

SITE & LANDSCAPE DATA

PROPERTY OWNER: ACADIA HEALTHCARE
6100 TOWER CIRCLE, SUITE 1000
FRANKLIN, TN 37067
NHC PIN#: 3126-18-21-6967
SITE ADDRESS: 2520 TROY DRIVE
PARCEL SIZE: 9.03 ACRES
ZONING: RB
LAND USE: MEDICAL & HEALTH (HOSPITAL)
FLOOD DATA: FLOOD ZONE 'X' FEMA FLOOD MAP

SETBACKS:

FRONT: 25' MAX. BUILDING HEIGHT: 35'
SIDE: 0' (20' WHEN ABUTTING RES. DISTRICT)
REAR: 15' (25 WHEN ABUTTING RES. DISTRICT)

STREET YARD CALCULATIONS

STREET YARD = 281 LF - 80 LF (DRIVEWAYS) = 201 LF
REQUIRED STREET YARD AREA = 201 LF x 25 = 5,025 SF
PROPOSED STREET YARD = 5,025 SF
REQUIRED TREES @ 1/600 SF = 9 TREES
PROPOSED TREES = 9 TREES
REQUIRED SHRUBS @ 6/600 SF = 51 SHRUBS
PROPOSED SHRUBS = 55

ALL PROPOSED VEGETATION WITHIN SITE
TRIANGLES SHALL NOT INTERFERE WITH CLEAR
VISUAL SIGHT LINES FROM 30' - 10'
[SEC.18-566 COW]

PARKING AREA SCREENING

PARKING WITHIN 50' OF A R.O.W. REQUIRES A LOW
SCREEN MIN. 3' HIGH AND 5' WIDE

* SCREENING INCLUDED IN STREETYARD PLANTING

PARKING PERIMETER LANDSCAPING

10' YARD REQ. ALONG SEPARATE PARKING LOTS, DRIVES
OR RESIDENTIALLY ZONED AREAS
MIN. 1 TREE EVERY 18-27 LF

FOUNDATION PLANTING AREAS

BUILDING HEIGHT = 30 FT
REQUIREMENT: LT X HT X12%
HOSPITAL
719 X 30 X 0.12 = 2,336 SF (REQUIRED)
PROVIDED = 5,038 SF

PATIENT DORM 1
225 X 24 X 0.12 = 648 SF (REQUIRED)
PROVIDED = 1,472 SF

PATIENT DORM 2
225 X 24 X 0.12 = 648 SF (REQUIRED)
PROVIDED = 1,240 SF

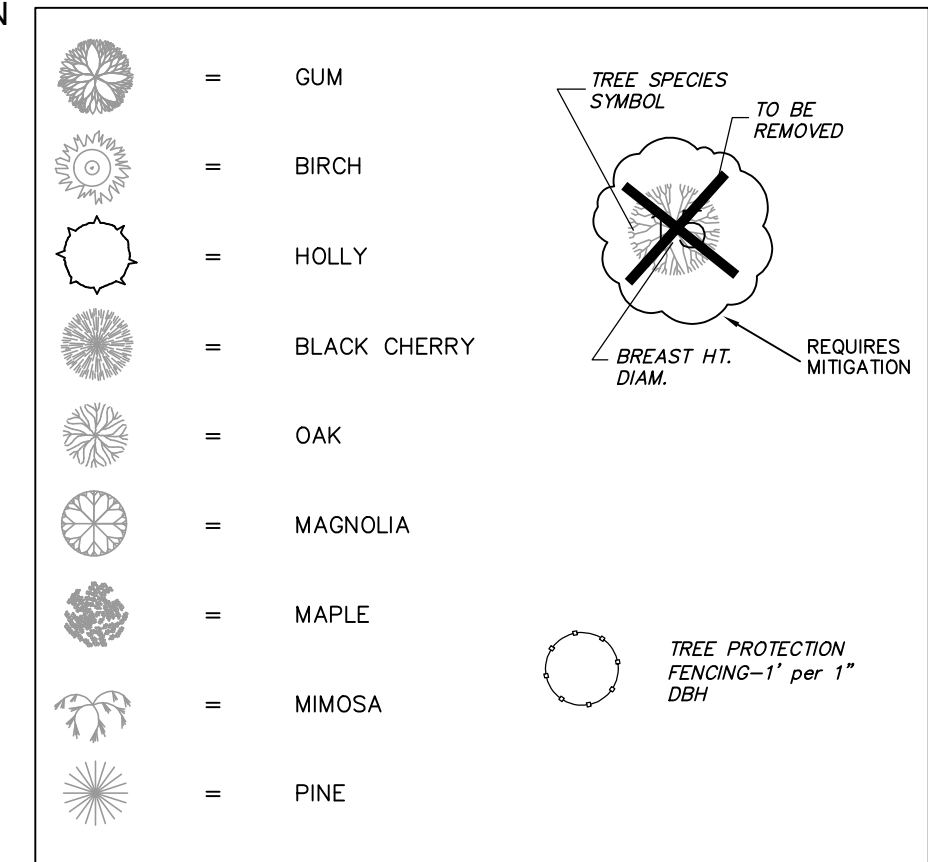
BUFFER YARD

BUFFER YARD REQ. TO SCREEN ANY RESIDENTIAL USE
FROM NON-RESIDENTIAL USES OR DISTRICTS
20' BUFFER (1,040 LF)

REQUIRED:
(1 TREE/30 LF AVG.) X 1,040 LF = 25 TREES
100% OPAQUE SHRUB SCREEN
MIN. 6' IN 3 YEARS

PROPOSED:
29 EXISTING TREES + (6 NEW) = 35 TREES
CONTINUOUS HEDGE

TREE INVENTORY LEGEND



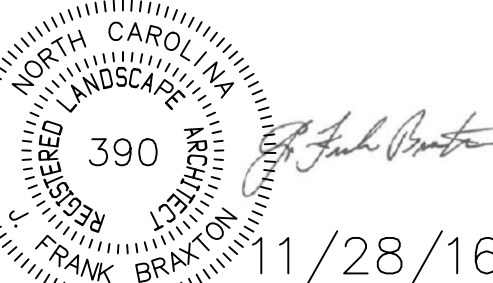
IMPERVIOUS COVERAGE

BUILDINGS: 47,290 SF
PARKING AND DRIVES: 119,531 SF (WITHOUT PVIOUS
CONCRETE CREDIT)
108,727 SF (WITH PVIOUS
CONCRETE CREDIT)
WALKS: 23,690 SF
FUTURE: 29,050 SF
TOTAL: 219,561 SF (W/O PVIOUS CONCRETE CREDIT
AND INCLUDING 29050 SF
OF FUTURE IMPVIOUS)
208,757 SF (WITH PVIOUS CONCRETE CREDIT
AND INCLUDING 29050 SF
OF FUTURE IMPVIOUS)

JJC A

New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC

ACADIA
HEALTHCARE



REV. 1: 45' X 45' SIGHT TRIANGLES

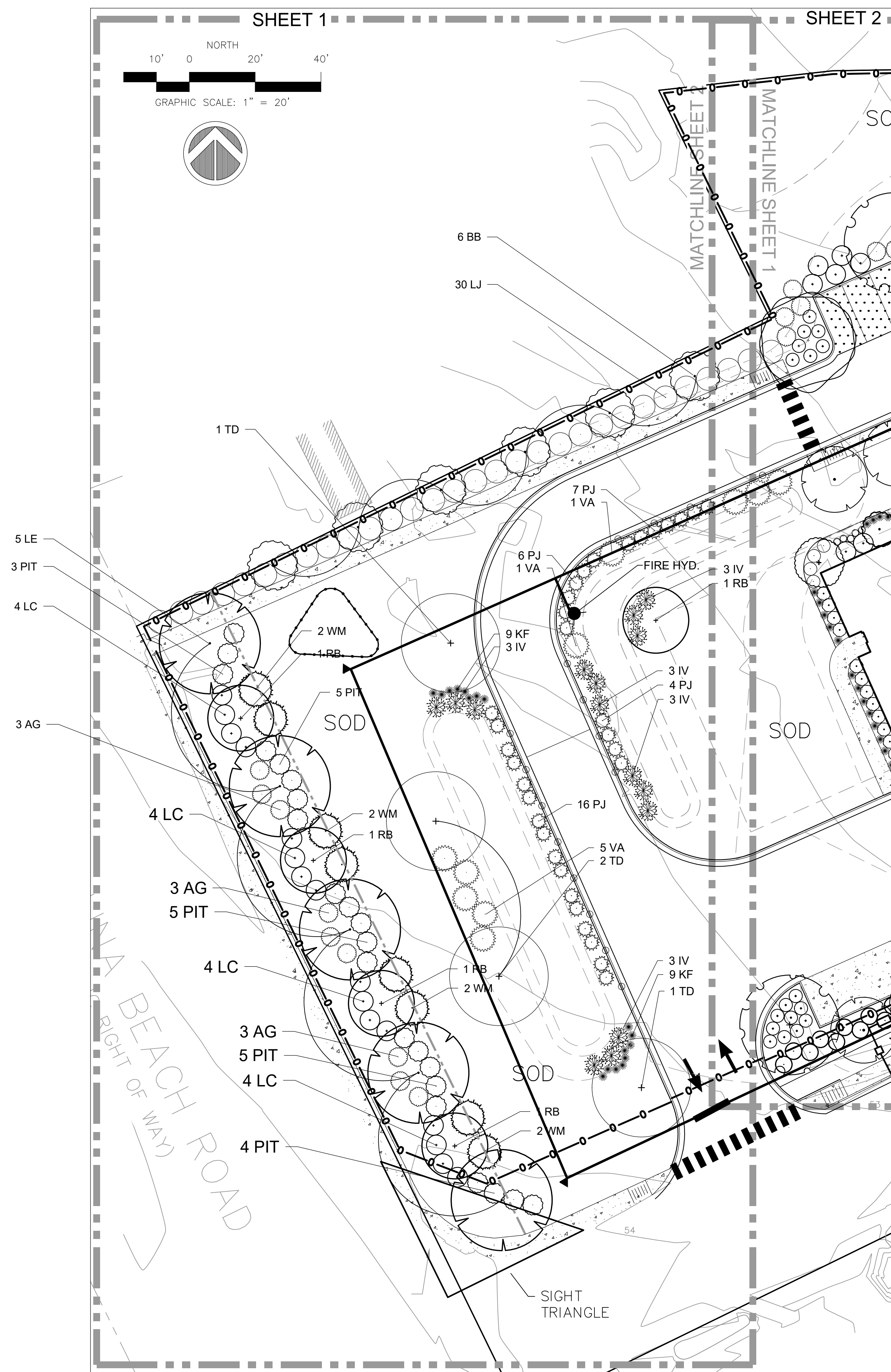


PROJECT NUMBER
15678.01
DATE
January 13, 2017

LANDSCAPE

L-01

Johnson Johnson
Crabtree Architects PC
4551 Trousdale Drive
Nashville, TN 37204
tel 615.837.0666
fax 615.837.0657



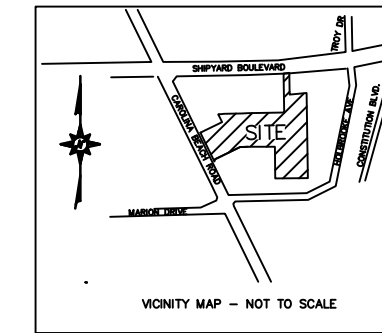
CAMPUS LANDSCAPE SCHEDULE

BOTANICAL NAME	COMMON NAME	CAL.	HT.	REMARKS	QUAN.	SYMBOL
LARGE TREES						
GLEDITSIA TRIACANTHOS	HONEY LOCUST	2.5"			9	GT
MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	2.5"			2	MG
QUERCUS VIRGINIANA	LIVE OAK	2.5"			14	LO
QUERCUS ACUTISSIMA	SAMTOOTH OAK	2.5"			8	QA
QUERCUS PHELLOS	WILLOW OAK	2.5"			4	QP
SABAL PALMETTO	SABAL PALM		10-12'		4	SP
SAUX BABYLONICA	WEeping WILLOW	2.5"			3	WW
TAXODIUM DISTICHUM VAR. DISTICHUM	BALD CYPRESS	2.5"			8	TD
ULMUS PARVIFOLIA	LACEBARK ELM	2.5"			17	LE
ZELKOVA SERRATA	JAPANESE ZELKOVA	2.5"			9	ZK
SMALL TREES						
CERCIS CANADENSIS	EASTERN REDBUD		8-10'	25 GAL.	7	RB
CORNUS KOUSA	KOUSA DOGWOOD		8-10'	25 GAL.	2	KD
ERIOBOTRYA JAPONICA	LOQUAT		8-10'	25 GAL.	6	EJ
LAGERSTROEMIA INDICA x FAURIEI 'MUSKOGEE'	MUSKOGEE' GRAPE MYRTLE		8-10'	25 GAL.	6	CM-M
LAGERSTROEMIA INDICA x FAURIEI 'NATCHEZ'	NATCHEZ' GRAPE MYRTLE		8-10'	25 GAL.	12	CM-N
MAGNOLIA GRANDIFLORA 'BRACKEN'S BROWN BEAUTY'	MAG. BRACKEN'S BROWN BEAUTY'		8-10'	25 GAL.	7	BB
MAGNOLIA GRANDIFLORA 'LITTLE GEM'	LARGE-FLOWERED MAGNOLIA		8-10'	25 GAL.	18	LG
PRUNUS 'KANZAN'	JAPANESE FLOWERING CHERRY		8-10'	25 GAL.	1	KC
SHRUBS						
ABELIA x GRANDIFLORA	GLOSSY ABELIA			3 GAL.	61	AG
ASPIDISTRA ELATIOR	CAST IRON PLANT			1 GAL.	73	CI
BUXUS MICROPHYLLA 'WINTERGREEN'	WINTERGREEN BOXWOOD			7 GAL.	37	BX
CALAMAGROSTIS x ACUTIFLORA 'KARL FOERSTER'	FEATHER REED GRASS			1 GAL.	86	KF
CLETHRA ALNIFOLIA	SWEET PEPPERBUSH			7 GAL.	5	CA
FATSIA JAPONICA	FATSIA			3 GAL.	3	FJ
HOSTA 'FORTUNE' 'FRANCEE'	FRANCEE HOSTA			1 GAL.	94	HF
HYDRANGEA MACROPHYLLA 'NIKKO BLUE'	NIKKO BLUE HYDRANGEA			7 GAL.	24	HYD-NB
HYDRANGEA PANICULATA 'JANE'	LITTLE LIMELIGHT HYDRANGEA			3 GAL.	30	HYD-J
HYDRANGEA PANICULATA 'LIMELIGHT'	LIMELIGHT HYDRANGEA			7 GAL.	3	HYD-LL
ILEX CORNUTA 'BURFORDII NANA'	HOLLY 'BURFORD DWARF'			7 GAL.	25	BD
ILEX CORNUTA 'CARISSA'	CARISSA HOLLY			3 GAL.	63	CH
ILEX CRENATA 'SKY PENCIL'	SKY PENCIL HOLLY			7 GAL.	30	SP
ILEX x 'NELLIE R. STEVENS'	'NELLIE R. STEVENS' HOLLY		5-7'		28	NRS
ILEX VERTICILLATA	WINTERBERRY			3 GAL.	15	IV
JUNIPERUS DAURICA 'EXPANSA'	PARSONS JUNIPER			3 GAL.	40	PJ
LIGUSTRUM JAPONICUM	LIGUSTRUM			7 GAL.	91	LJ
LOROPETALUM CHINENSE VAR. RUBRUM 'RUBY'	RUBY RED LORAPETALUM			3 GAL.	90	LC
MAHONIA EURYBRACTEATA 'SOFT CARESS'	MAHONIA 'SOFT CARESS'			3 GAL.	22	ME
MYRTICA CERIFERA	WAX MYRTLE			7 GAL.	151	WM
NANDINA DOMESTICA 'GULF STREAM' TM	NANDINA 'GULF STREAM'			3 GAL.	16	ND
MUHLENBERGIA CAPILLARIS	PINK MUHLY GRASS			1 GAL.	58	PMG
PENNISETUM ALOPECUROIDES 'HAAMEL'	DWARF FOUNTAIN GRASS			1 GAL.	75	PEN
PITTOSPORUM TOBIRA 'COMPACTA'	COMPACT PITTOSPORUM			7 GAL.	22	PIT
PODOCARPUS MACROPHYLLUS MAKI	SHRUBBY YEW PODOCARPUS			7 GAL.	56	PM
RHAPHIOLEPIS INDICA 'ELEANOR TABOR'	INDIAN HAWTHORN			3 GAL.	135	IH
RHAPHIOLEPIS UMBELLATA	YEDDO HAWTHORN			7 GAL.	48	YH
RHODODENDRON 'HINO CRIMSON'	HINO CRIMSON AZALEA			7 GAL.	65	AZ-H
RHODODENDRON 'RED RUFFLES'	RED RUFFLE AZALEA			7 GAL.	34	AZ-R
ROSA 'RADTKO'	DOUBLE KNOCKOUT ROSE			3 GAL.	30	RR
SARCOCOCCA HOOKERIANA VAR. HUMILIS	SWEETBOX			3 GAL.	20	SH
SPIRAEA x BUMALDA 'GOLD MOUND'	SPIREA GOLD MOUND			3 GAL.	5	SB
TERNSTROEMIA GYMNANTHERA	CLEYERA			7 GAL.	4	TG
THUJA OCCIDENTALIS 'EMERALD'	EMERALD ARBORVITAE			7 GAL.	18	EA
VIBURNUM AWABUKI 'CHINDO'	VIBURNUM 'AWABUKI CHINDO'			7 GAL.	29	VA
VIBURNUM TINUS 'COMPACTUM'	VIBURNUM 'TINUS COMPACTUM'			7 GAL.	18	VT
GROUND COVER						
HACKONECHLOA MACRA	JAPANESE FOREST GRASS			1 GAL.	42	JFG
LIRIOPE MUSCARI 'ROYAL PURPLE'	LIRIOPE-'ROYAL PURPLE'			1 QT.	395	LIR-RP
LIRIOPE MUSCARI 'SUPER BLUE'	LIRIOPE-'SUPER BLUE'			1 GAL.	20	LIR-SB

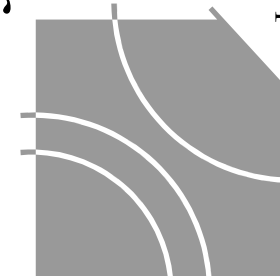
* ALL SPECIFIED PLANTS ARE SUBJECT TO THE STANDARDS OF THE AMERICAN STANDARD FOR NURSERY STOCK

WET POND VEG. SHELF LANDSCAPE SCHEDULE

BOTANICAL NAME	COMMON NAME	HT.	REMARKS	QUAN.	SYMBOL
Wet Pond Plants					
<i>Juncus effusus</i>	Common Rush			206	JUN
<i>Iris virginica</i>	Blue Flag Iris			92	IR
<i>Eutrochium purpureum</i>	Joe Pye Weed			68	JPW
<i>Labelia cardinalis</i>	Cardinal Flower			158	CF
<i>Panicum virgatum</i>	Switchgrass			185	SG
<i>Sagittaria latifolia</i>	Duck Potato			122	DP
<i>Echinacea purpurea</i> & <i>Rudbeckia fulgida</i>	Purple & Orange Coneflower		Intermix both plants	56 & 56	CF MIX




JICA



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Wilmington, NC

Johnson Johnson
Crabtree Architects PC
4551 Trousdale Drive
Nashville, TN 37204
tel/ 615.837.0656
fax 615.837.0657




City of WILMINGTON
 NORTH CAROLINA

Approved Construction Plan

Name _____ Date _____

Planning _____
 Traffic _____
 Fire _____

WILMINGTON
CITY OF
NORTH CAROLINA

Public Services Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

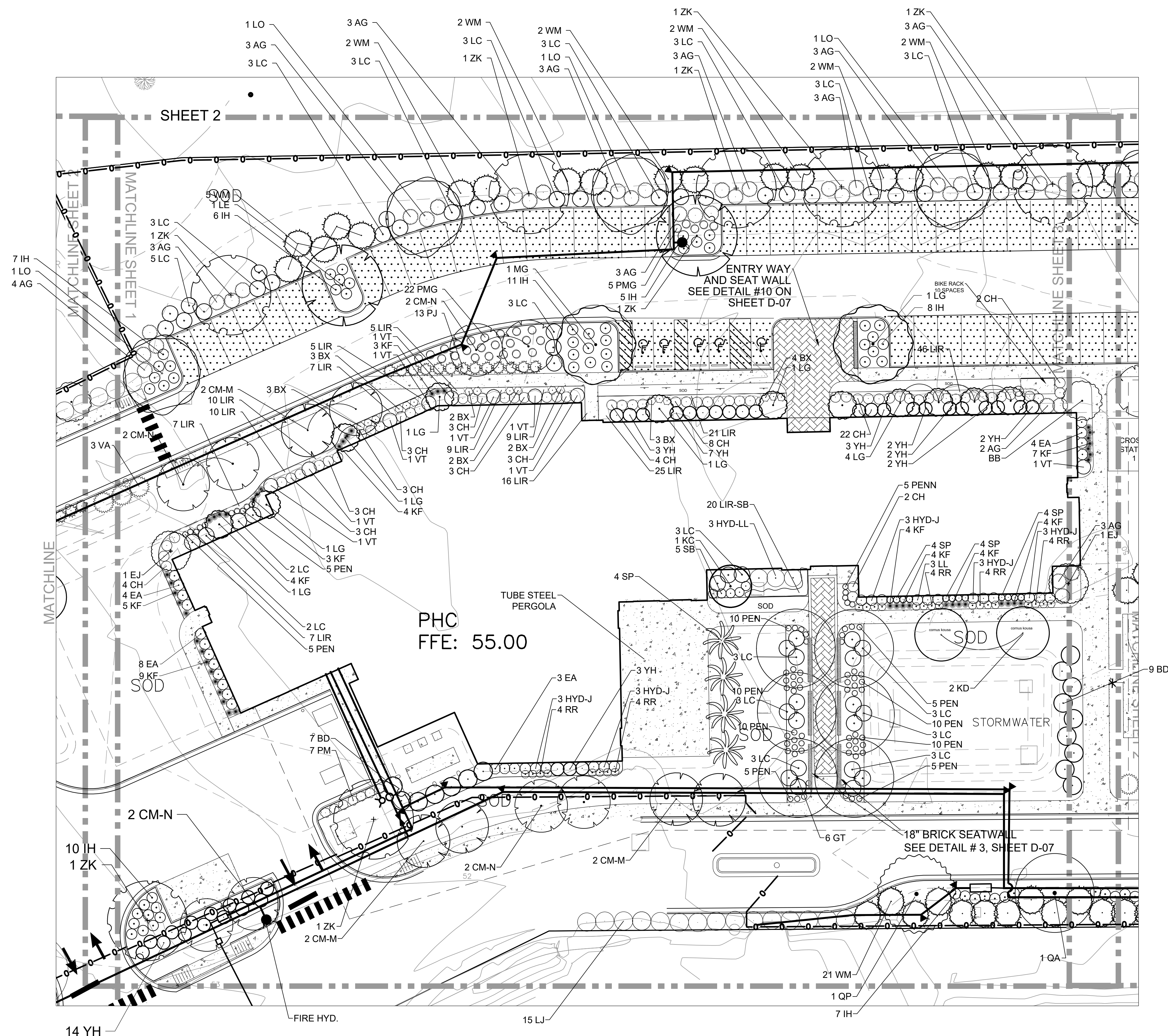
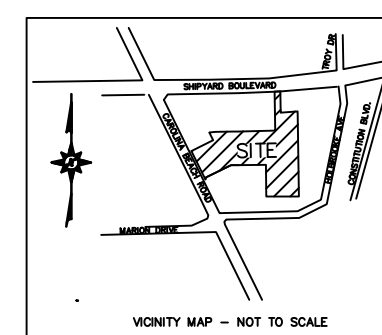
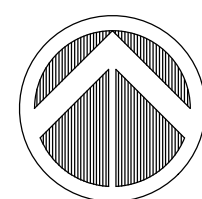
Signed: _____

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January 13, 2017

LANDSCAPE

L-02



1. ALL LANDSCAPE MATERIAL MUST BE INSTALLED PRIOR TO FINAL BUILDING INSPECTION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND/OR RELOCATION OF EXISTING UTILITIES IN COORDINATION WITH THE APPROPRIATE UTILITY AGENCY OR COMPANY.
3. CONTRACTOR SHALL NOT SUBSTITUTE FOR ANY OF THE PLANT MATERIAL THAT IS SPECIFIED WITHOUT PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT.
4. VERIFICATION OF TOTAL QUANTITIES AS SHOWN IN THE PLANT LIST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. MULCH UNDER ALL PROPOSED TREES AND SHRUBS WITH PINE NEEDLES AT A 3"-4" DEPTH OR APPROVED EQUAL.
6. PLANT SIZES INDICATED SPECIFY MINIMUM ALLOWABLE SIZES AT PLANTING, WHERE CONTAINER AND HT. SIZES ARE INDICATED FOR A SINGLE SPECIES, BOTH SIZE REQUIREMENTS MUST BE MET.
7. WHERE WHEEL STOPS ARE NOT USED, THERE SHALL BE AT LEAST A 3 FT. SEPARATION BETWEEN LANDSCAPED AREAS AND PARKING AREAS TO ALLOW VEHICLE OVERHANG.
8. ALL PLANTINGS USED TO SCREEN THE DRIVES AND PARKING AREAS FROM ADJOINING ROADWAYS WILL NEED TO BE A MINIMUM OF 24" HIGH AT TIME OF PLANTING.
9. ALL OTHER AREAS NOT BEING MULCHED TO BE SEEDED OR SODDED PER SEEDING SCHEDULE INCLUDED AS PART OF THE S&E PLANS.
10. THE OWNERS OF THE PROPERTY AND THEIR AGENTS, HEIRS, OR ASSIGNS SHALL BE RESPONSIBLE FOR THE INSTALLATION, PRESERVATION AND MAINTENANCE OF ALL PLANTING AND PHYSICIAN FEATURES SHOWN ON THIS PLAN. THE OWNERS SHALL BE RESPONSIBLE FOR ANNUAL MAINTENANCE OF THE VEGETATION TO INCLUDE BUT NOT BE LIMITED TO:

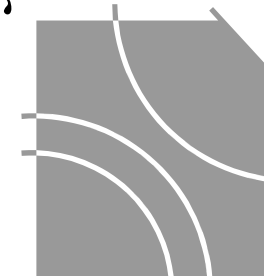
- A. TREES/SHRUBS AND GRASSED AREAS
BROADCAST A SLOW RELEASE FERTILIZER (10-10-10 ANALYSIS) OVER THE MULCHED BEDS AT THE RECOMMENDED RATES AS SHOWN ON THE BAGS, ONCE MID-FEBRUARY AND ONCE MID-SEPTEMBER. THOROUGH WATERING IS REQUIRED UPON COMPLETION.
- B. PRUNING WITHIN LIMITS
PRUNING WHEN NECESSARY, WILL BE DONE TO MAINTAIN THEIR NORMAL GROWTH PATTERN AND TO REMOVE DEAD OR DISEASED PLANT MATERIAL. THERE SHALL BE NO TOPPING OF TREES.
- C. PEST CONTROL (FIRST YEAR)
WEED CONTROL TO BE PROVIDED EARLY FEBRUARY, APRIL, JUNE, AUGUST AND OCTOBER IN THE SHRUB/TREE BEDS AND IN THE LAWN AREAS. INSECT DAMAGE SHALL BE TREATED WHEN NECESSARY TO PREVENT DAMAGE TO VEGETATION.
- D. MULCHING
ALL AREAS AROUND THE BUILDING FOUNDATION AND SHRUB/TREE BEDS SHALL BE RE-MULCHED SO THAT THEY CONTAIN A MIN. DEPTH OF TWO INCHES AND A MAXIMUM DEPTH OF THREE INCHES. MULCH USED SHALL BE EQUAL WHICH WAS SUPPLIED DURING THE INSTALLATION OF THE PLANTS.
- E. MOWING
MOWING SHALL BE DONE AS NECESSARY TO KEEP GRASS AT THE APPROPRIATE HEIGHT TO INSURE A HEALTHY GROWTH PATTERN
- F. PROTECTION OF ROOT ZONES
TREE/SHRUB ROOT ZONES SHOULD BE PROTECTED FROM FUTURE CONSTRUCTION AND EQUIPMENT AS MUCH AS POSSIBLE TO AVOID DAMAGE OR COMPACTION TO THE ROOT AREAS.
- G. WATERING SCHEDULE FOR IRRIGATION SYSTEM
MAINTENANCE SHALL INCLUDE A THOROUGH INITIAL WATERING WITH WEEKLY WATERING THEREAFTER FOR THE FIRST 30 DAYS. WATERINGS THEREAFTER BE ON AN AS NEEDED SCHEDULE PER LOCAL CONDITIONS. LANDSCAPE CONTRACT TO INCLUDE THE DESIGN AND INSTALLATION OF THE IRRIGATION SYSTEM TAYLORED TO FINAL LANDSCAPE DESIGN.
- H. STAKE AND WIRE REMOVAL
AT THE END OF THE FIRST YEAR ALL PLANT STAKING AND GUYING SYSTEMS SHALL BE REMOVED.
- I. PROTECTED TREE REGULATION
PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING SHALL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.


 Approved Construction Plan
 Name _____ Date _____
 Planning _____
 Traffic _____
 Fire _____

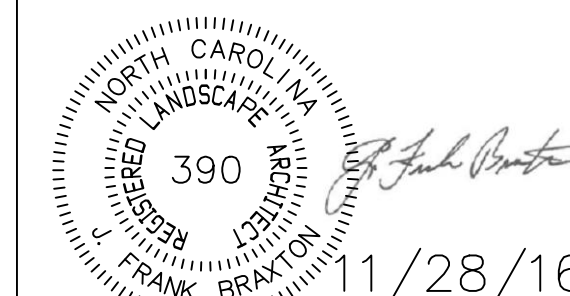
WILMINGTON
NORTH CAROLINA
Public Services Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

JICA



New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC



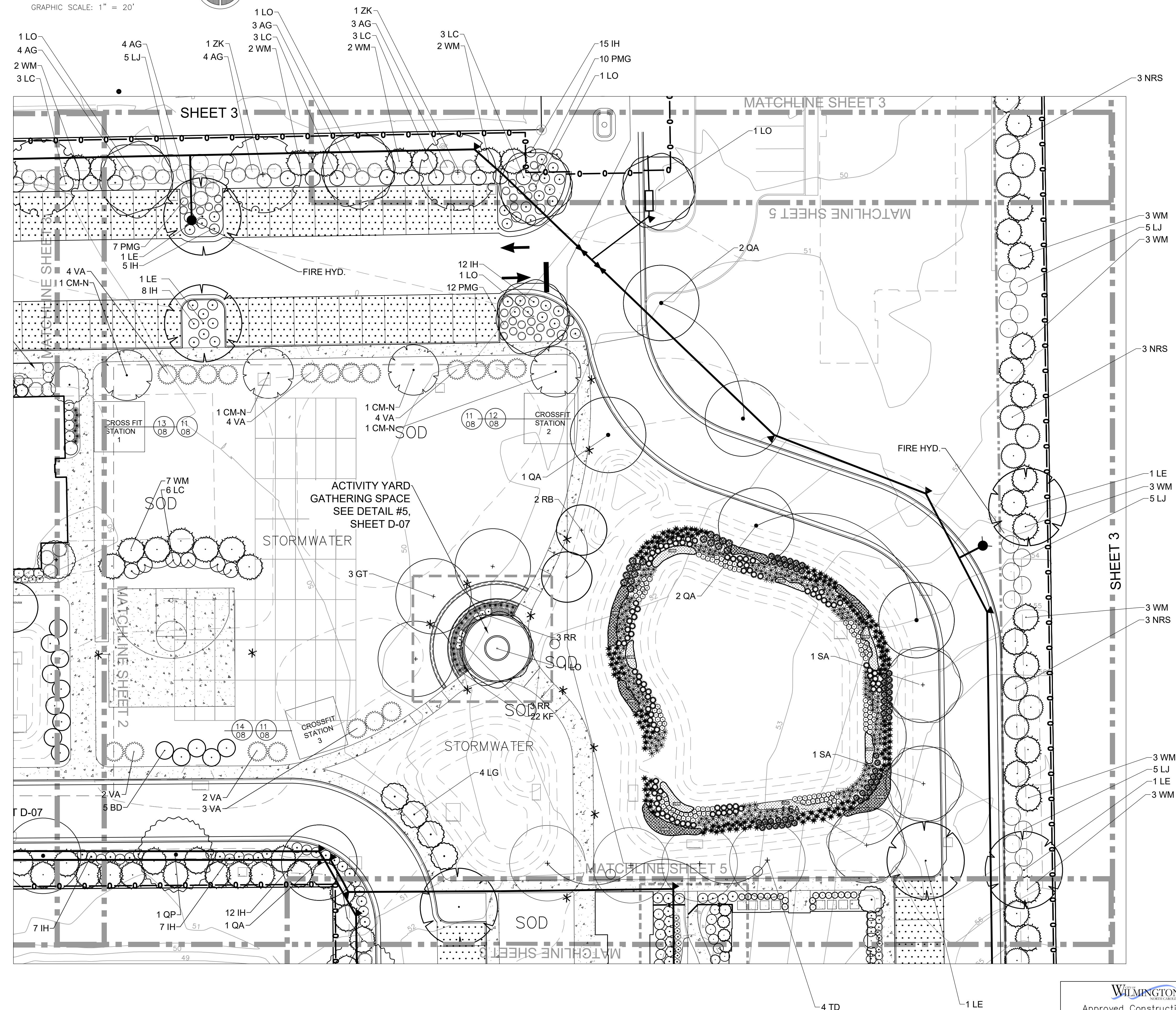
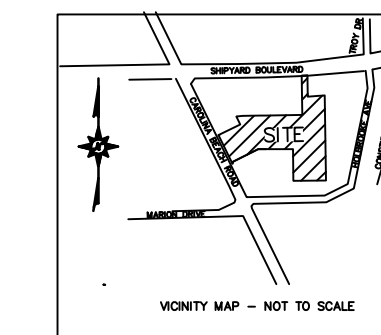



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7]]9b]]Yy]]' @UbXgWYy S]]W]]Yy]]
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DvY]]: %8]](]](]]
]]:]]: %8]](]](]]

PROJECT NUMBER
15678.01
DATE
January 13, 2017

LANDSCAPE

L-03




Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

Fire _____

W^{CITY OF}
ILMINGTON
NORTH CAROLINA

Public Services Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

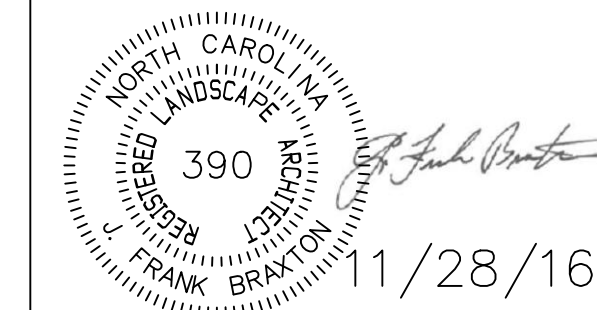
Signed: _____

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

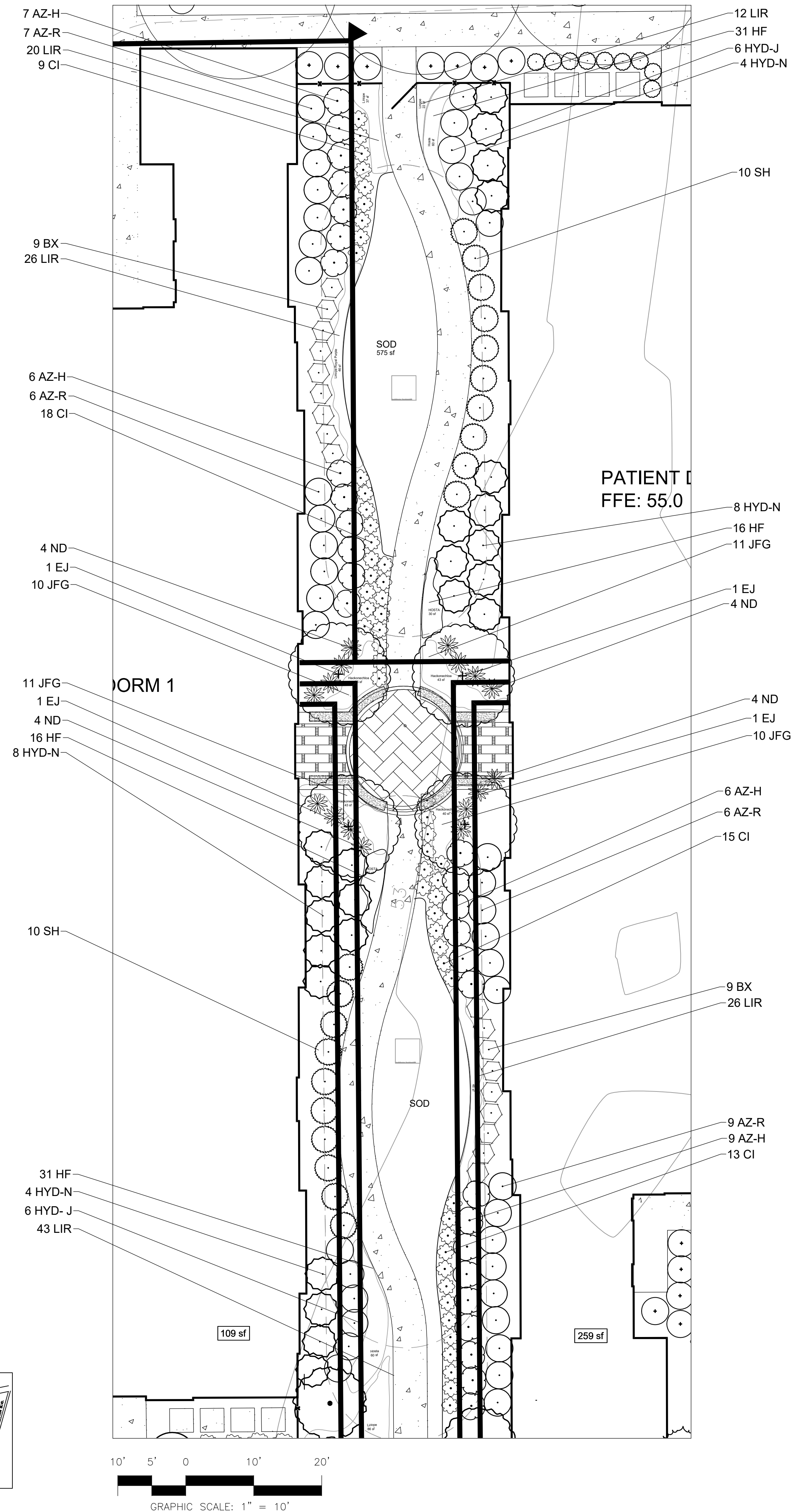
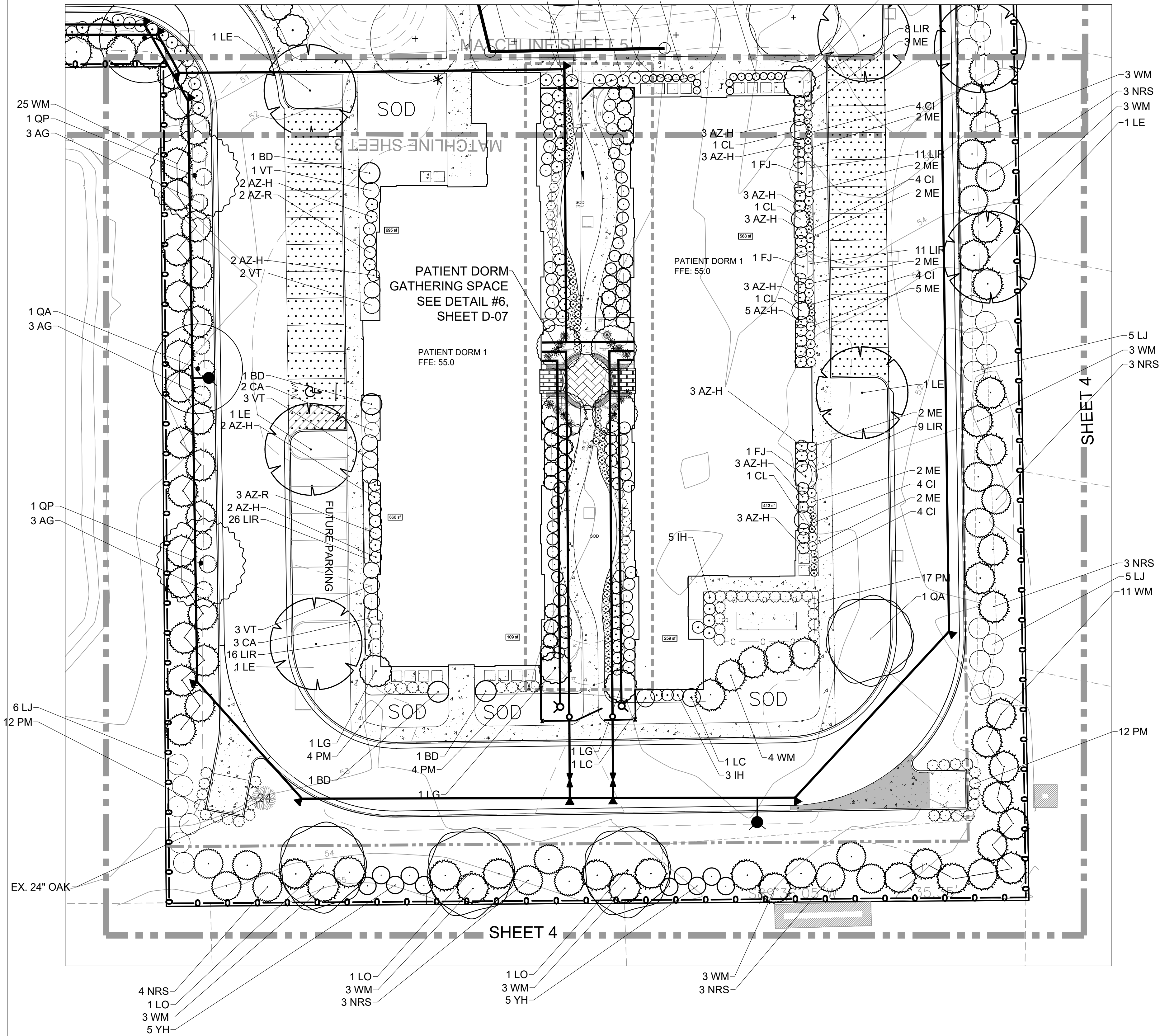
PROJECT NUMBER
15678.01
DATE
January 13, 2017


LANDSCAPE

L-04



SEE ADJACENT EXPLODED VIEW FOR
COURTYARD LANDSCAPE DEATAIL





 CITY OF WILMINGTON

NORTH CAROLINA


Approved Construction Plan

Name _____
 Date

Planning _____

Traffic _____

Fire _____

 CITY OF
WILMINGTON
NORTH CAROLINA

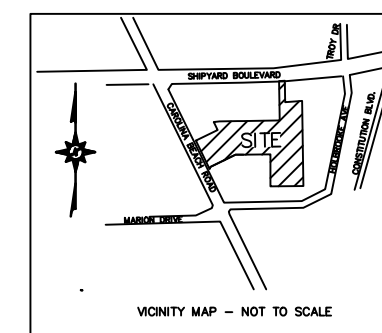
Public Services Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

Signed: _____

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

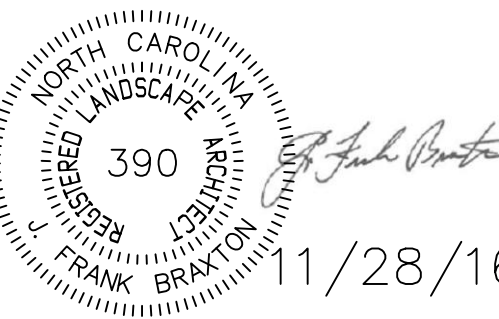


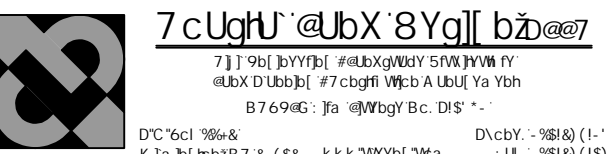
JJC A



Wilmington Treatment Center
New Partial Hospitalization Center for
Wilmington, NC

Crabtree Architects PC
Nashville, TN 37204
fax 615.837.0657

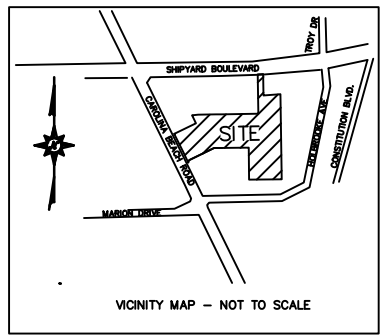
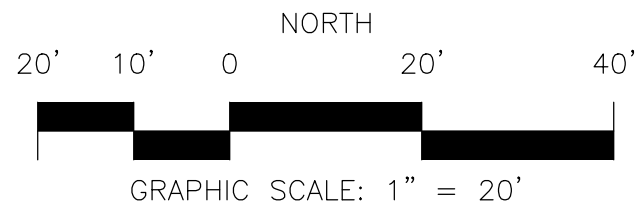
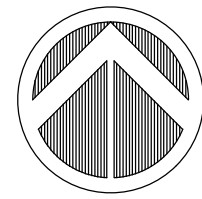




PROJECT NUMBER
15678.01
DATE
January 13, 2017

LANDSCAPE

L-05



SHEET 5

ADJACENT PROPERTY
RB ZONING

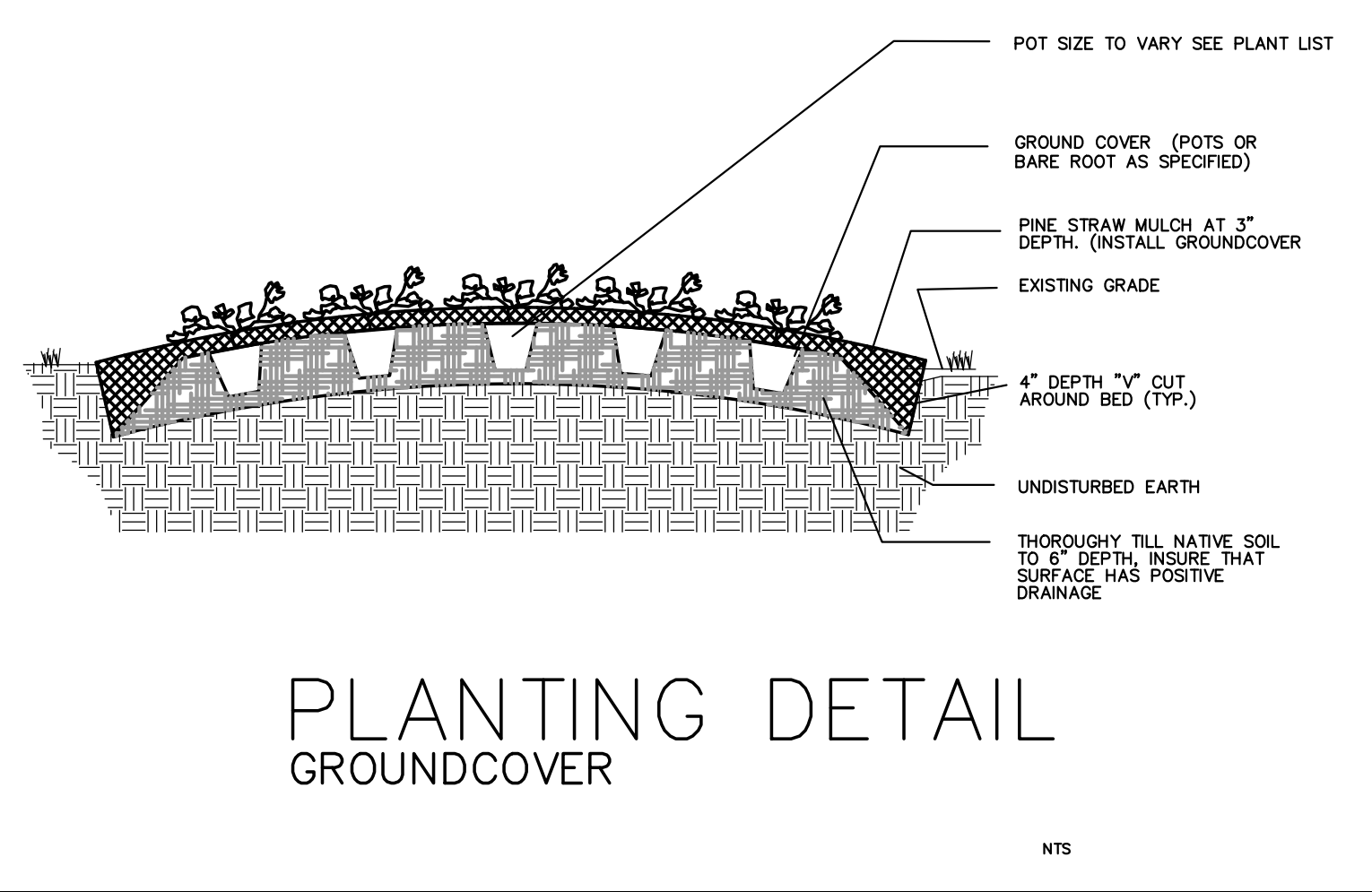
5 LJ
3 WM
3 NRS

3 WM
5 LJ
3 WM

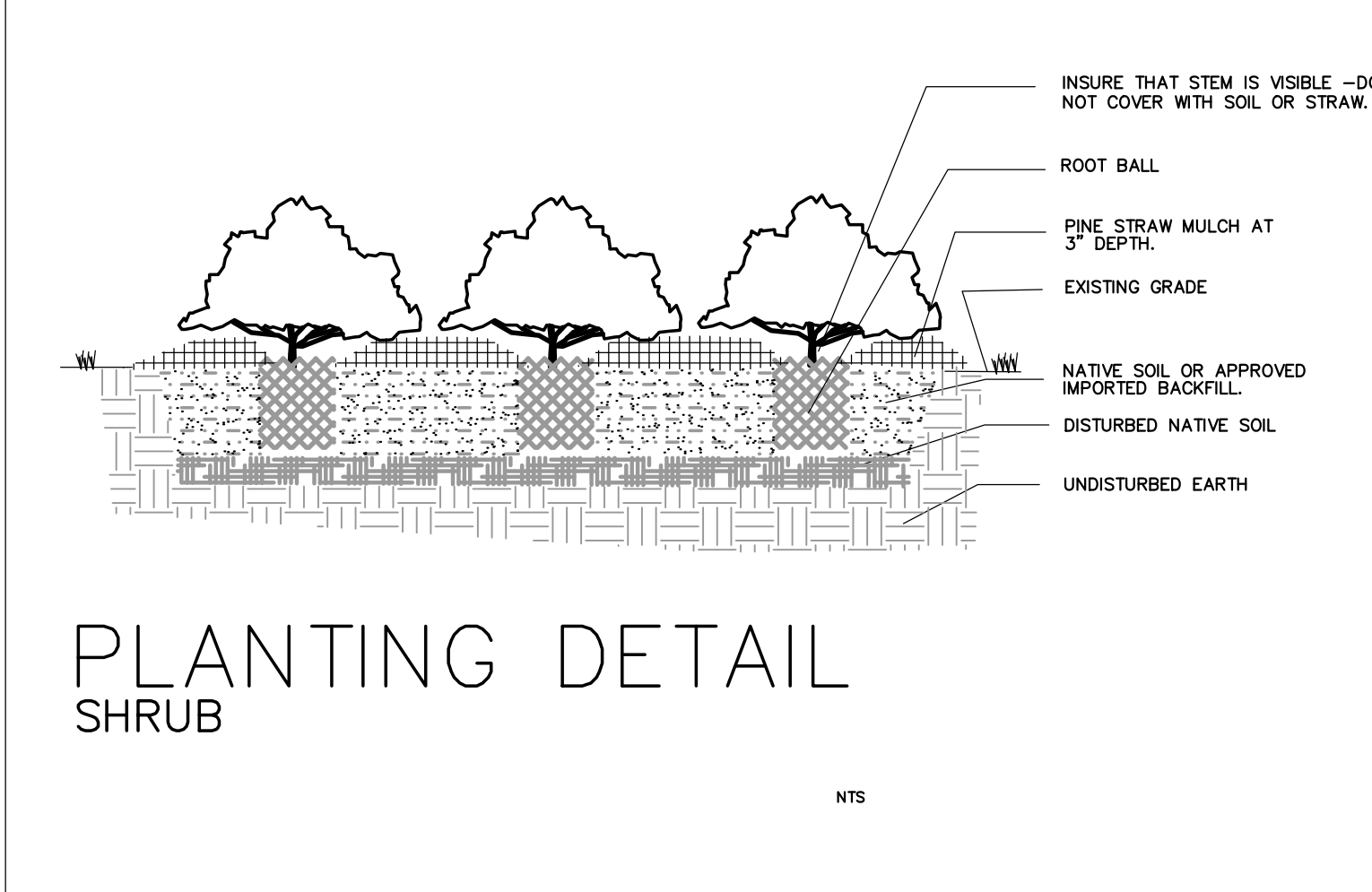
For each open utility
cut of
City streets, a \$325
permit
shall be required from
the
City prior to occupancy
and/or project
acceptance.

CITY OF WILMINGTON
NORTH CAROLINA
Public Services Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____

CITY OF WILMINGTON
NORTH CAROLINA
Approved Construction Plan
Name _____ Date _____
Planning _____
Traffic _____
Fire _____



PLANTING DETAIL GROUNDCOVER



PLANTING DETAIL SHRUB

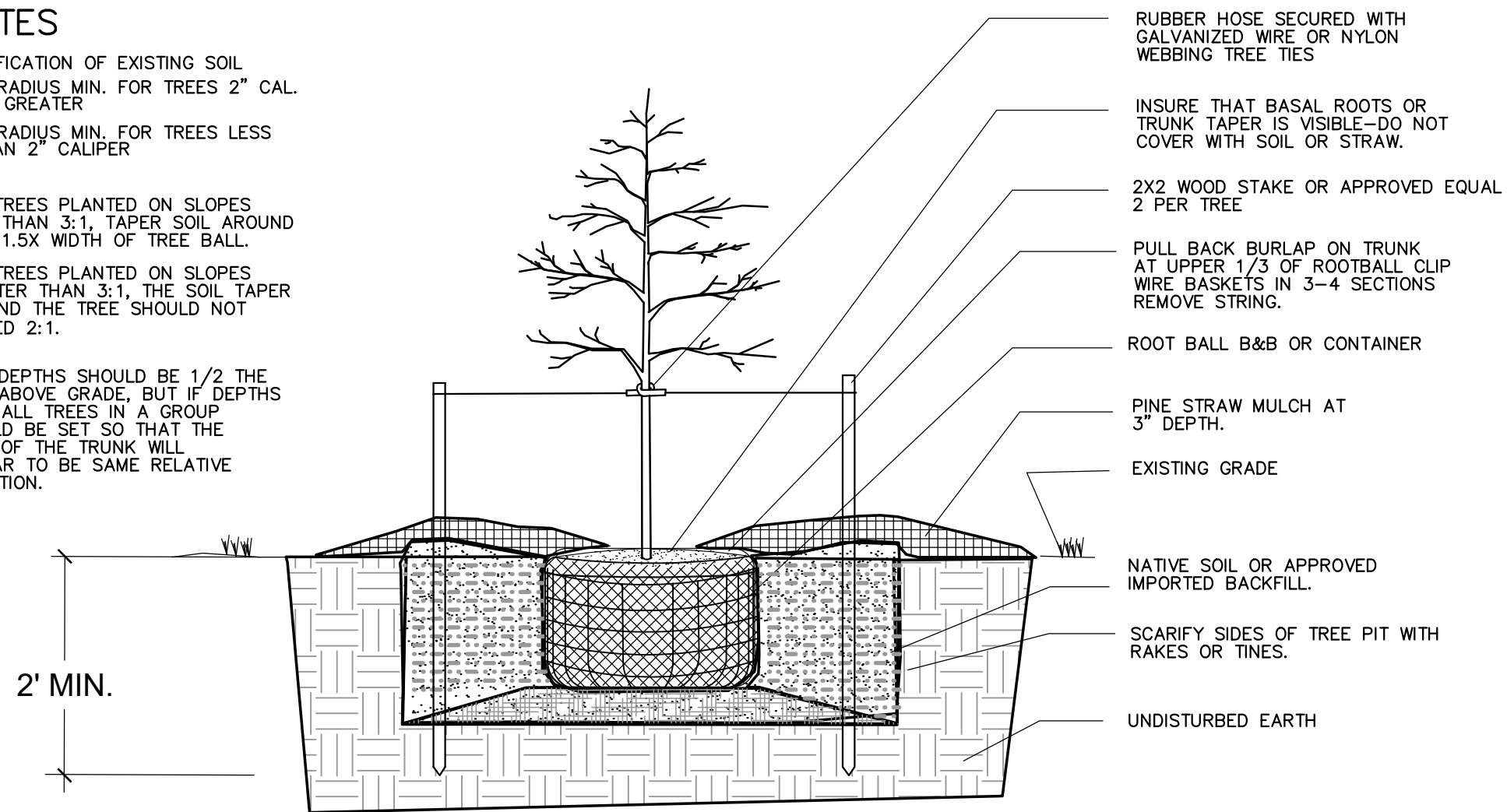
NOTES

SCARIFICATION OF EXISTING SOIL
3' RADIUS MIN. FOR TREES 2" CAL.
OR GREATER
3' RADIUS MIN. FOR TREES LESS
THAN 2" CALIPER

FOR TREES PLANTED ON SLOPES
LESS THAN 3:1, TAPER SOIL AROUND
TREE 1.5X WIDTH OF TREE BALL

FOR TREES PLANTED ON SLOPES
GREATER THAN 3:1, THE SOIL TAPER
AROUND THE TREE SHOULD NOT
EXCEED 2:1.

BALL DEPTHS SHOULD BE 1/2 THE
BALL ABOVE GRADE, BUT IF DEPTHS
VARY ALL TREES IN A GROUP
SHOULD BE SET SO THAT THE
BASE OF THE TRUNK WILL
APPEAR TO BE SAME RELATIVE
ELEVATION.



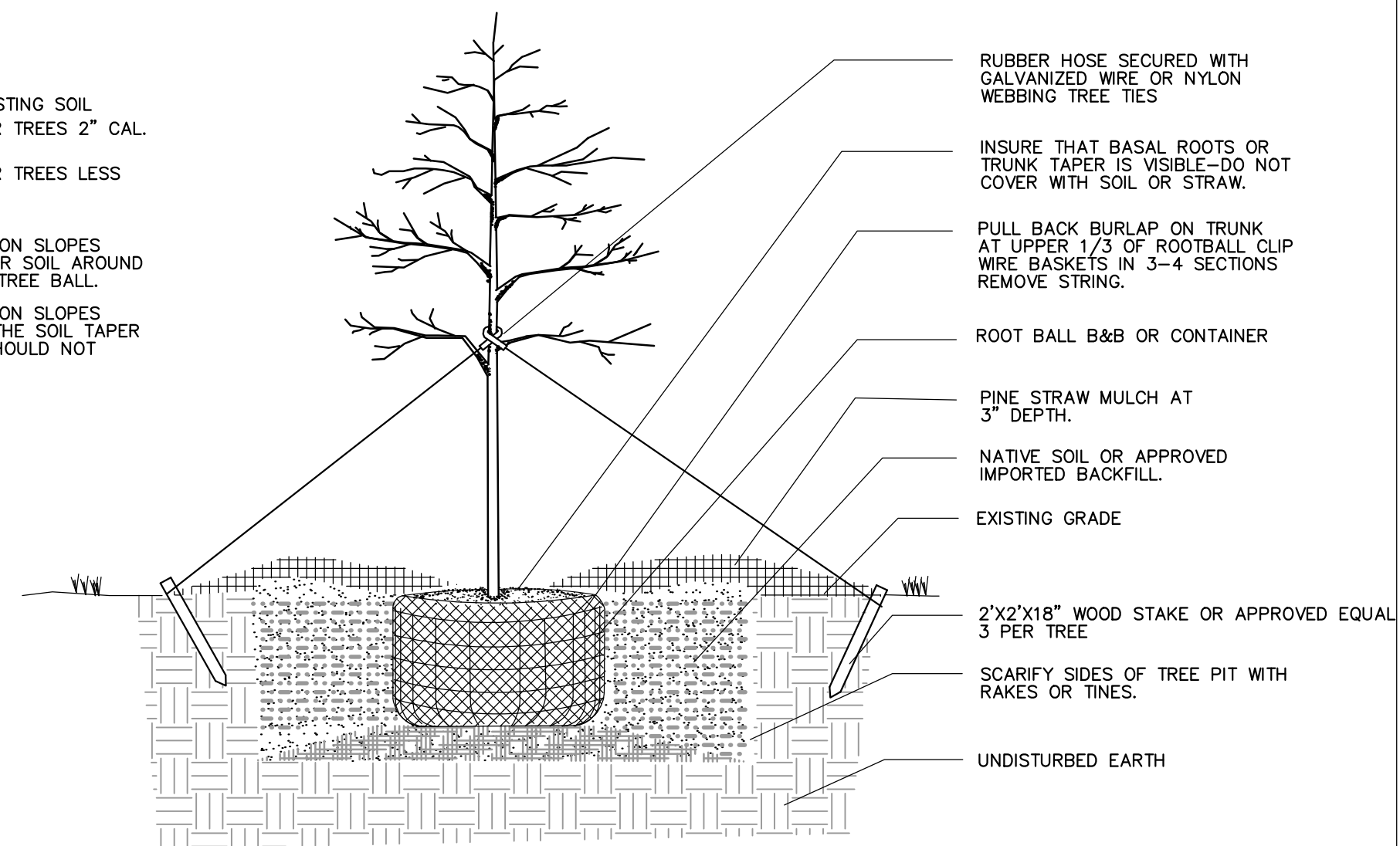
PLANTING DETAIL SMALL TREE 1" - 2.5" CALIPER

NOTES

SCARIFICATION OF EXISTING SOIL
3' RADIUS MIN. FOR TREES 2" CAL.
OR GREATER
3' RADIUS MIN. FOR TREES LESS
THAN 2" CALIPER

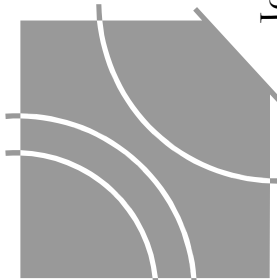
FOR TREES PLANTED ON SLOPES
LESS THAN 3:1, TAPER SOIL AROUND
TREE 1.5X WIDTH OF TREE BALL

FOR TREES PLANTED ON SLOPES
GREATER THAN 3:1, THE SOIL TAPER
AROUND THE TREE SHOULD NOT
EXCEED 2:1.



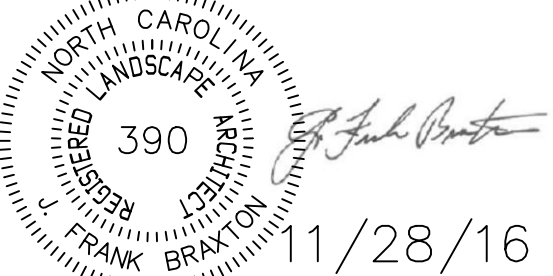
PLANTING DETAIL LARGE TREE 2.5" CALIPER OR LARGER

JJC A



New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC

ACADIA
HEALTHCARE

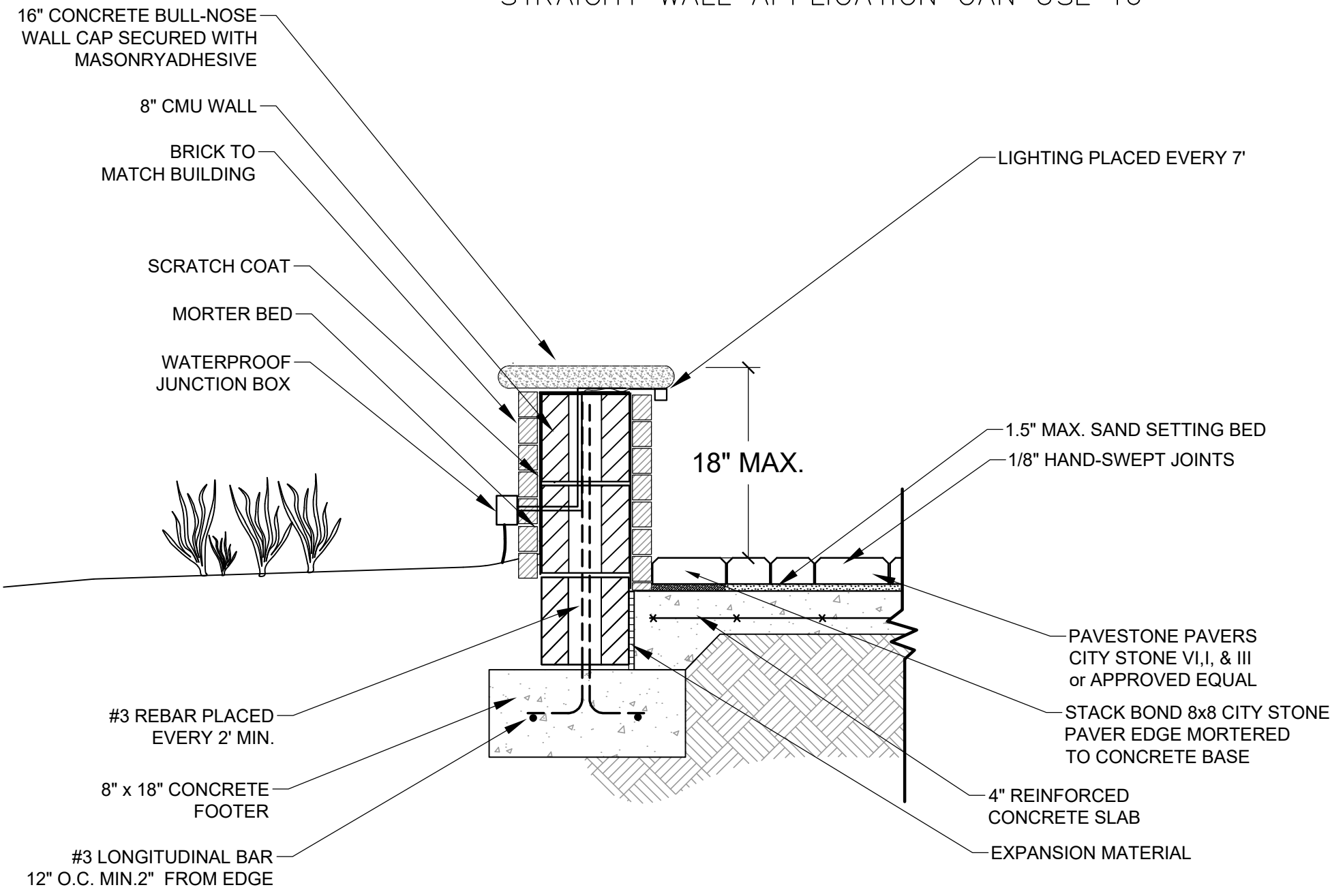


PROJECT NUMBER
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January 13, 2017

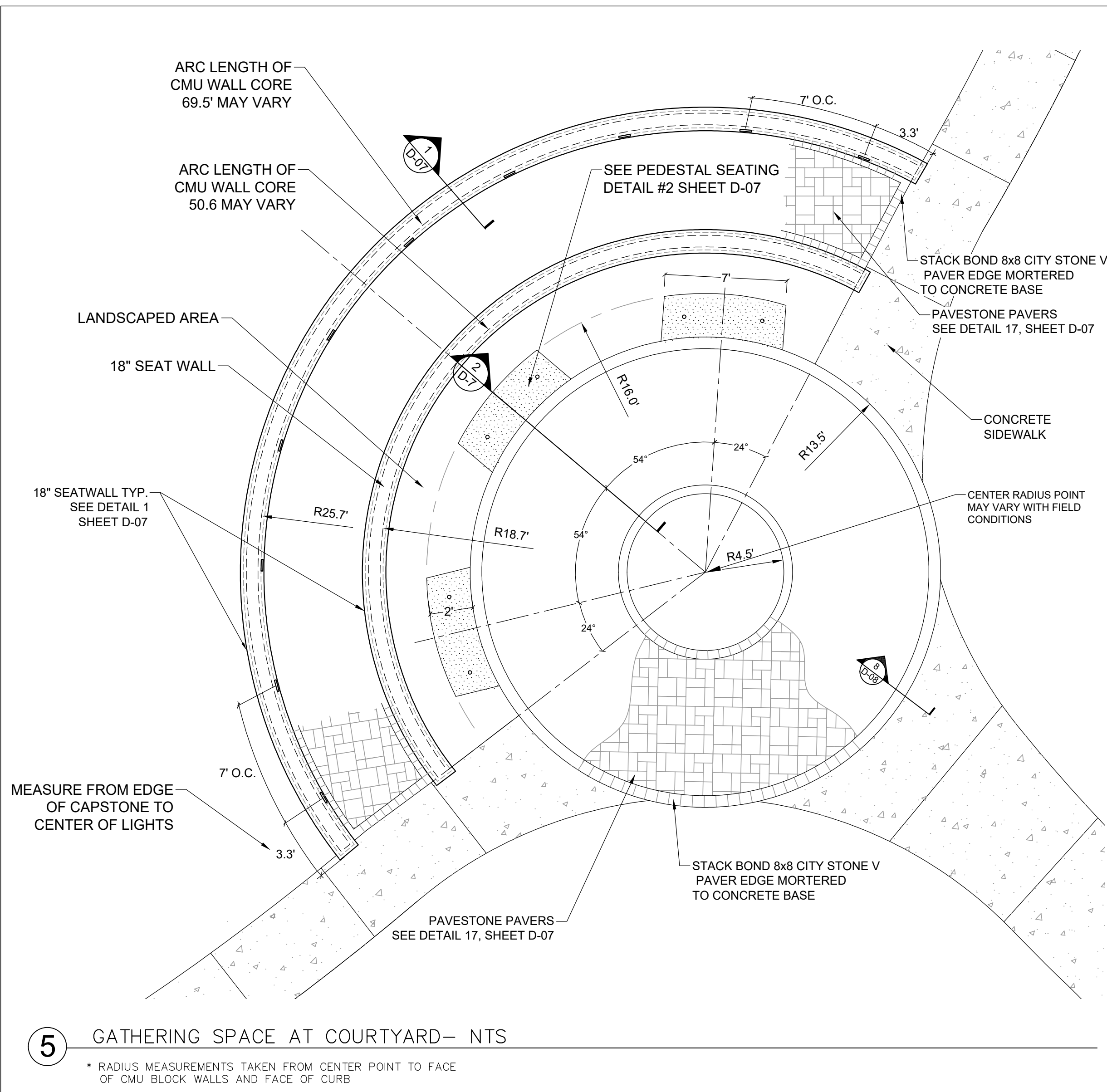
LANDSCAPE

L-06

* USE 8" CMU FOR CURVED SEATWALLS
STRAIGHT WALL APPLICATION CAN USE 16"

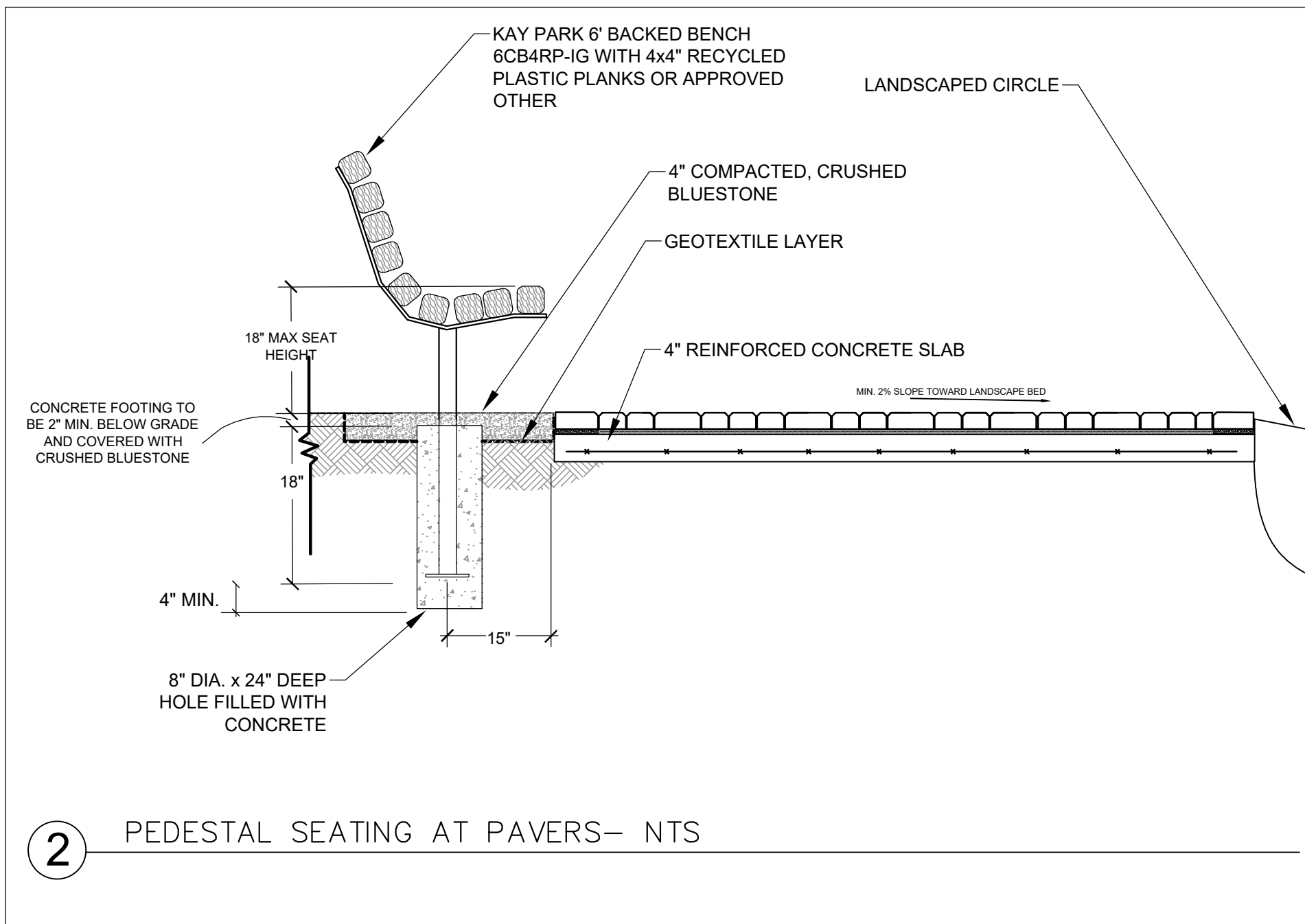


1 SEATWALL AT PAVERS-NTS

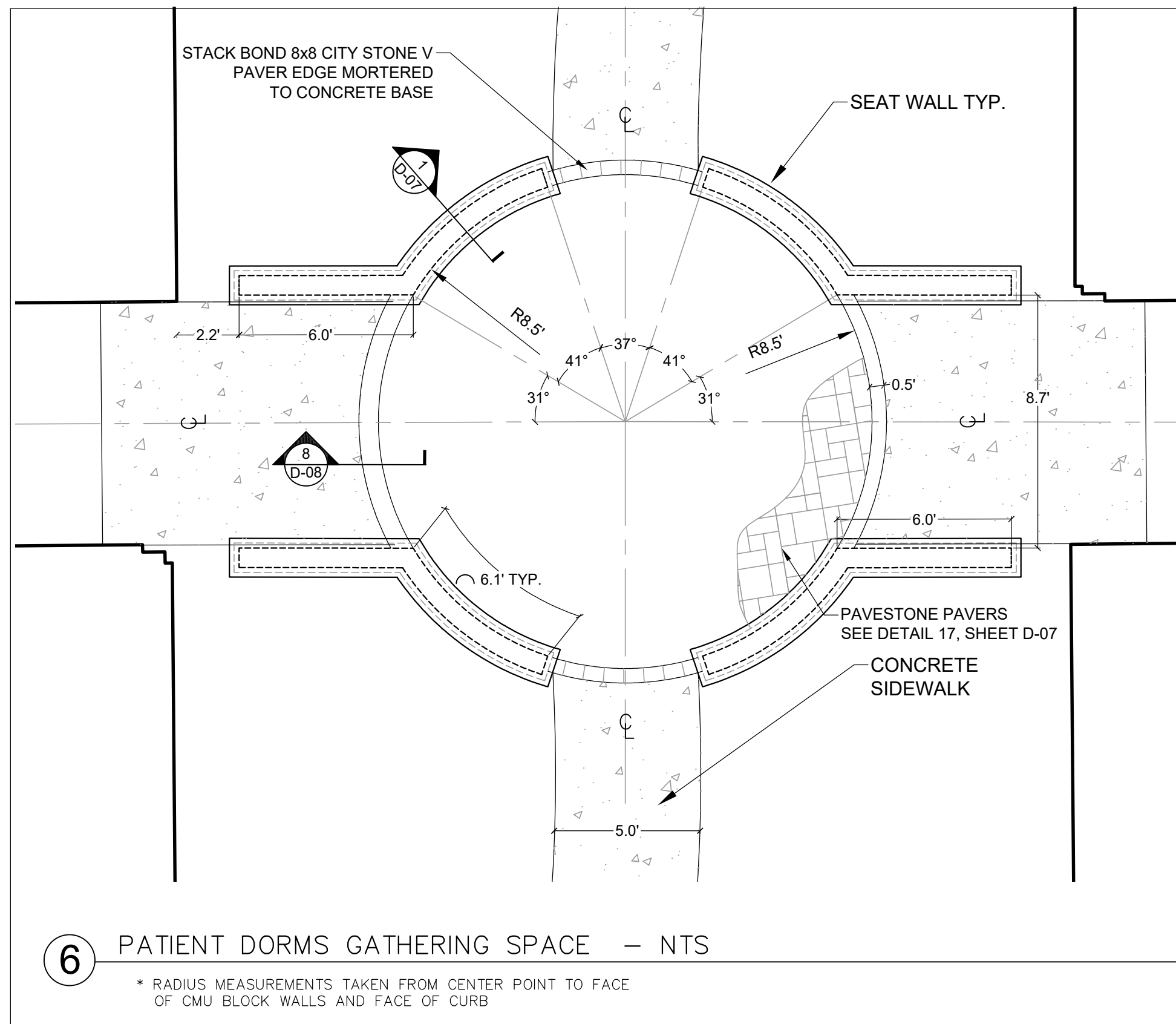


5 GATHERING SPACE AT COURTYARD- NTS

* RADIUS MEASUREMENTS TAKEN FROM CENTER POINT TO FACE OF CMU BLOCK WALLS AND FACE OF CURB

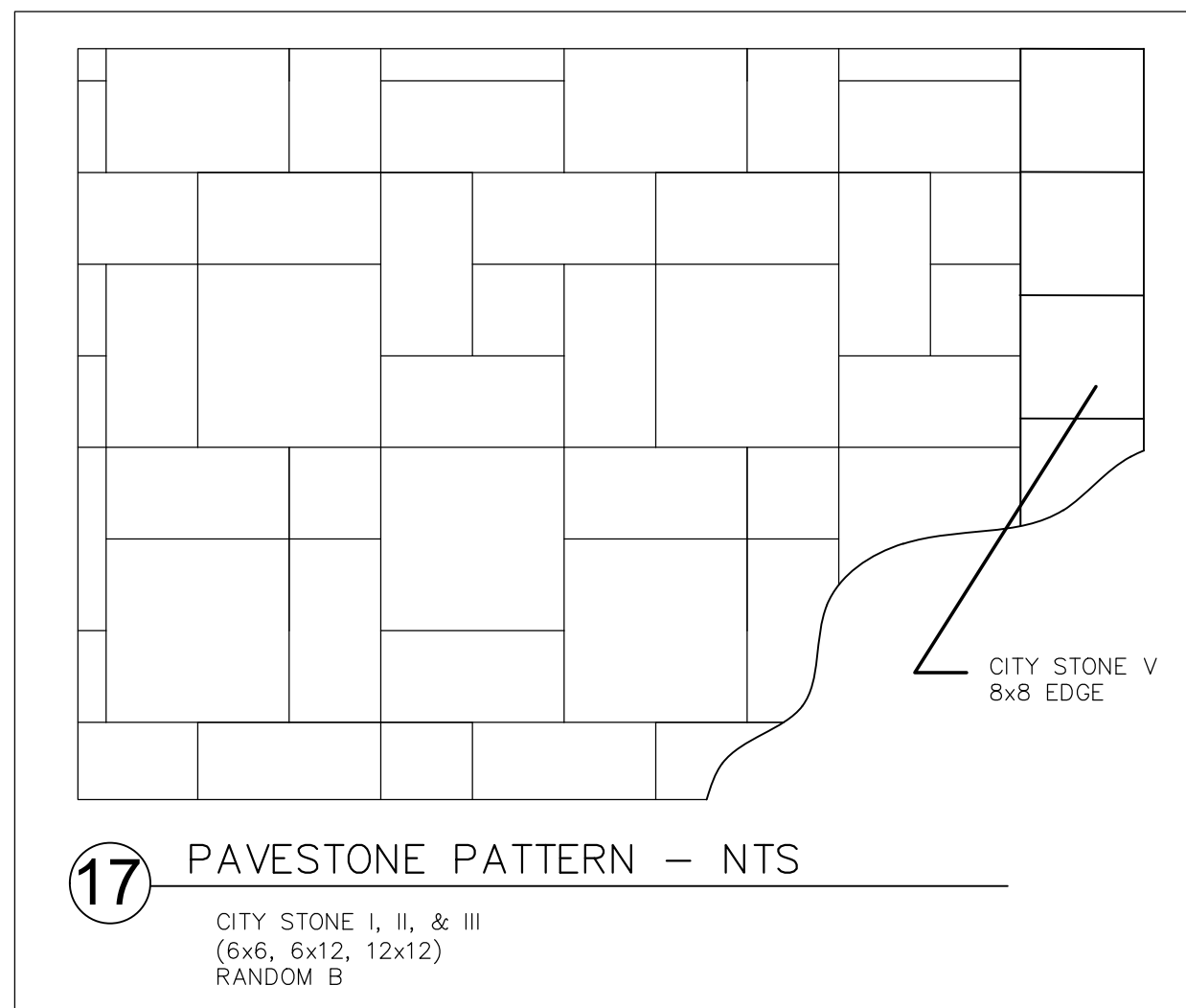


2 PEDESTAL SEATING AT PAVERS- NTS



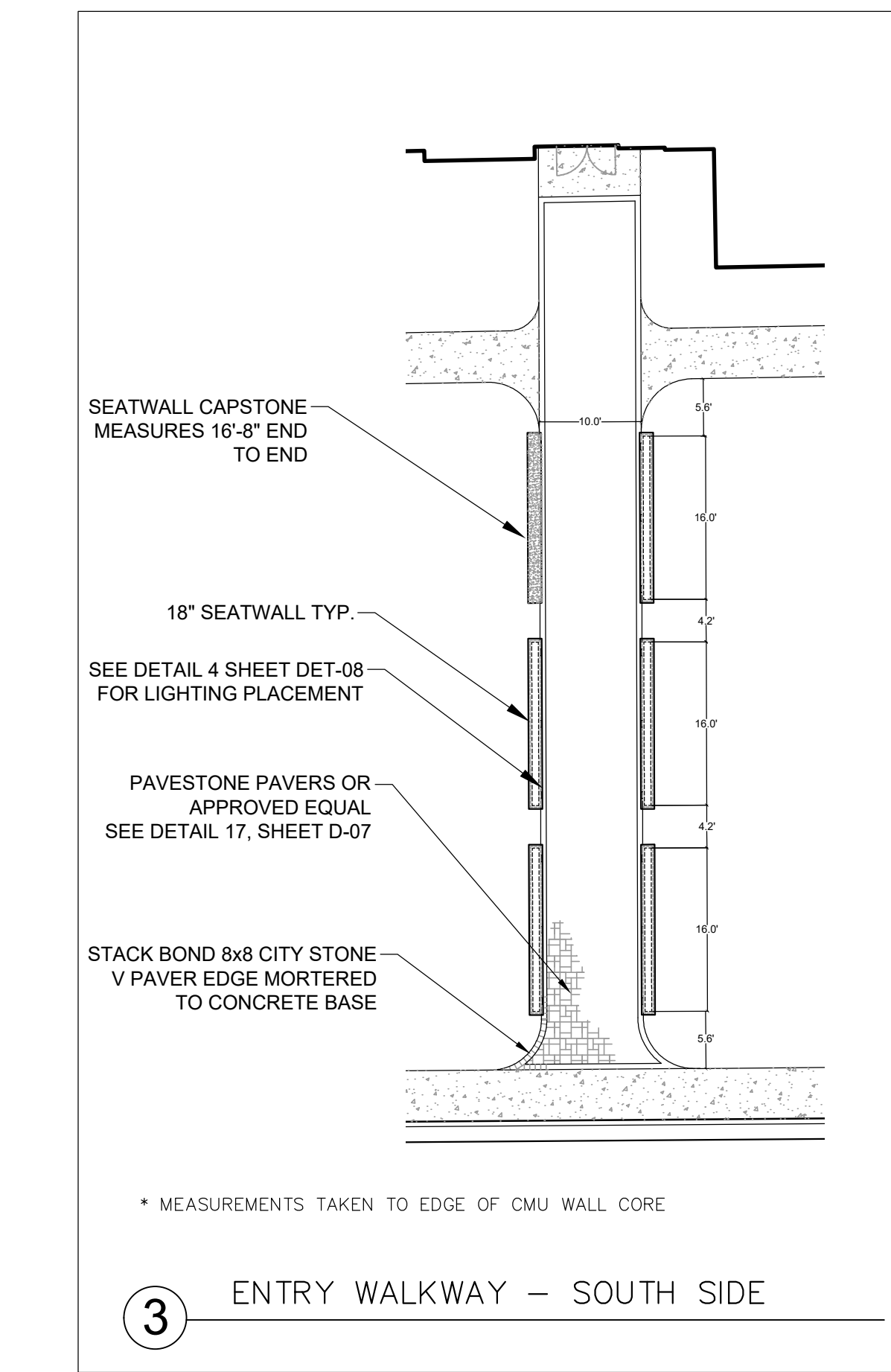
6 PATIENT DORMS GATHERING SPACE - NTS

* RADIUS MEASUREMENTS TAKEN FROM CENTER POINT TO FACE OF CMU BLOCK WALLS AND FACE OF CURB

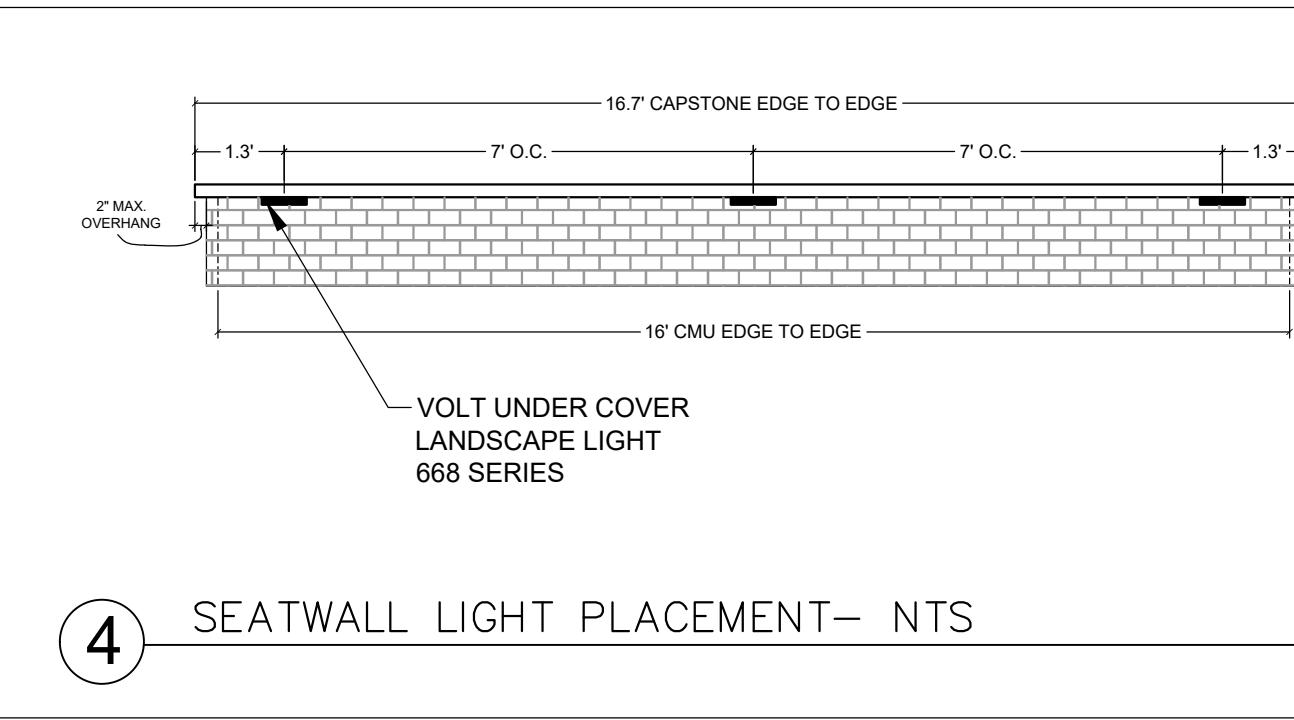


17 PAVESTONE PATTERN - NTS

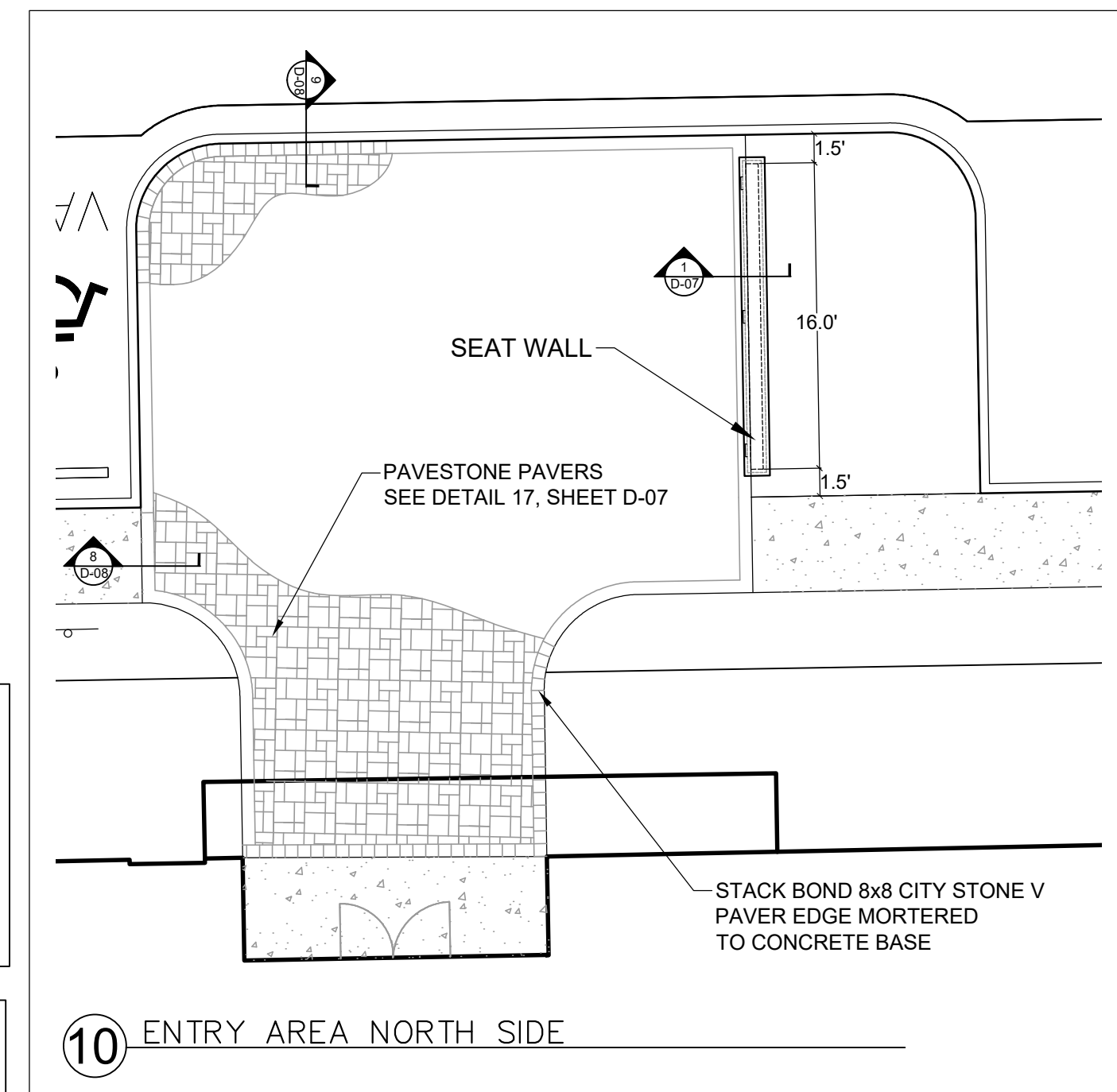
CITY STONE I, II, & III
(6x6, 6x12, 12x12)
RANDOM B



3 ENTRY WALKWAY - SOUTH SIDE

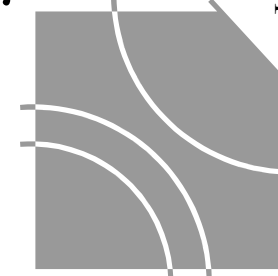


4 SEATWALL LIGHT PLACEMENT- NTS



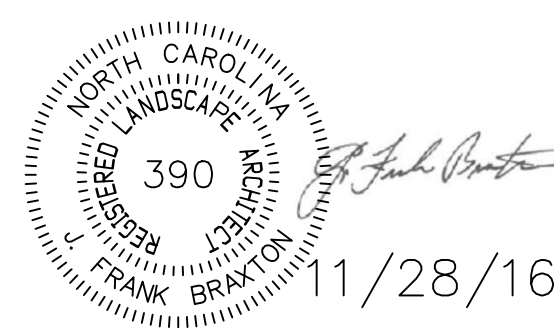
10 ENTRY AREA NORTH SIDE

JJCA



New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC

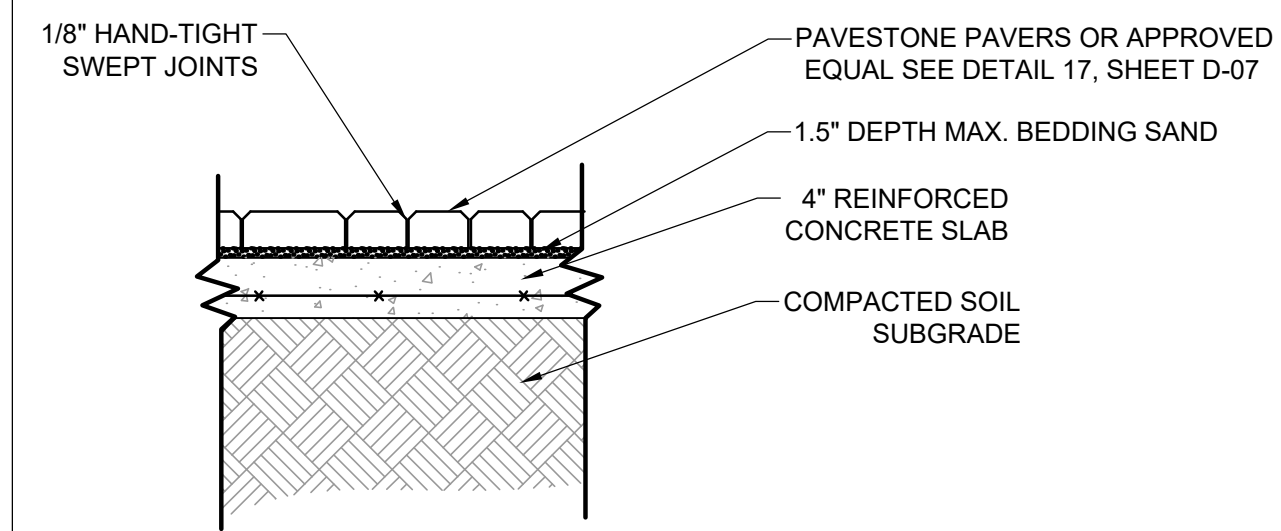
ACADIA
HEALTHCARE



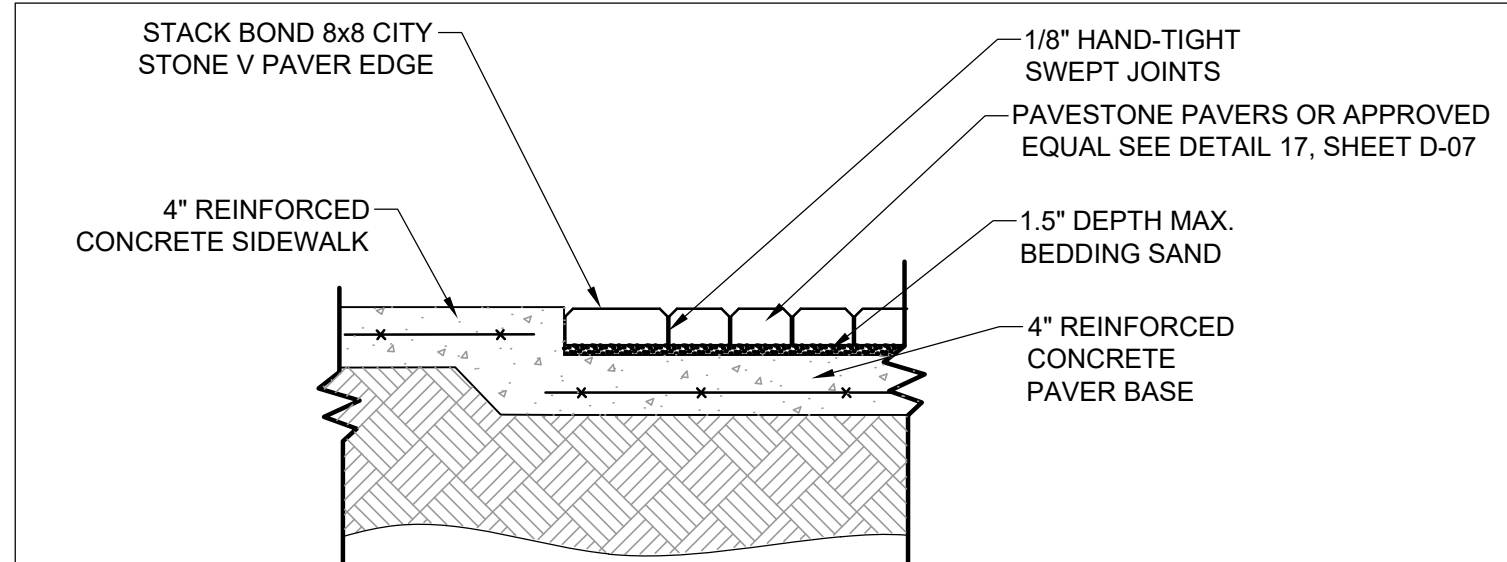
PROJECT NUMBER
15678.01
DATE
January 13, 2017

LANDSCAPE

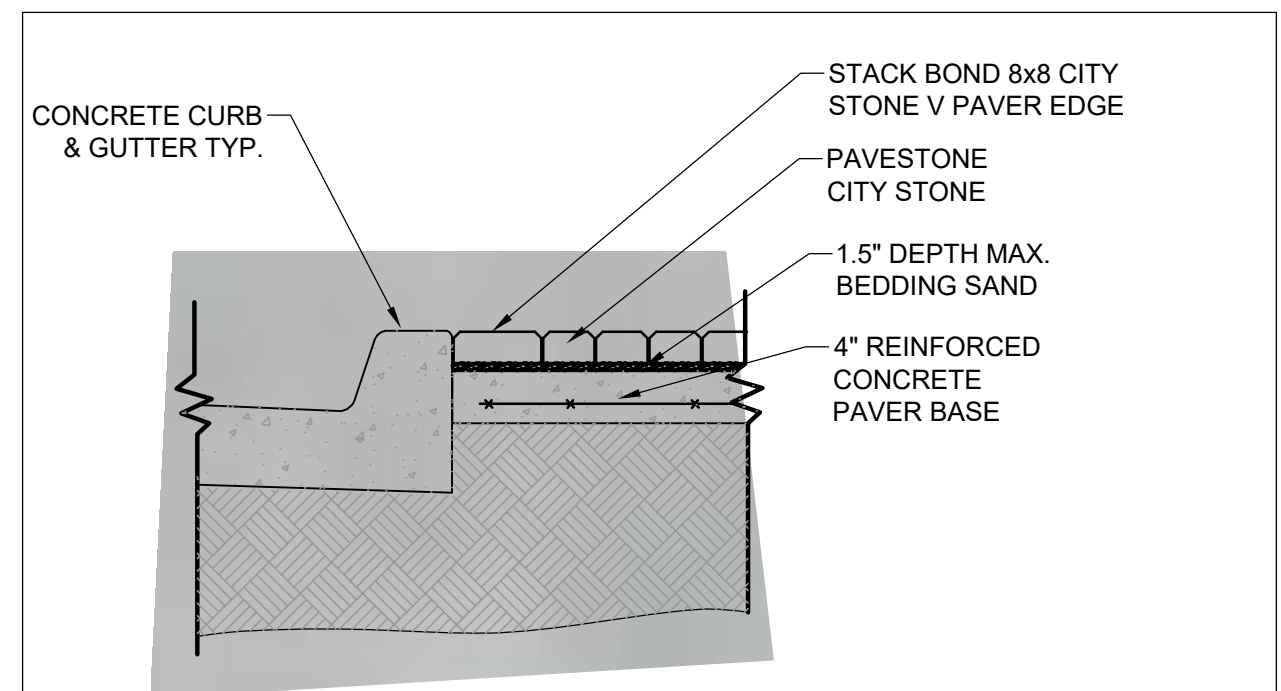
D-07



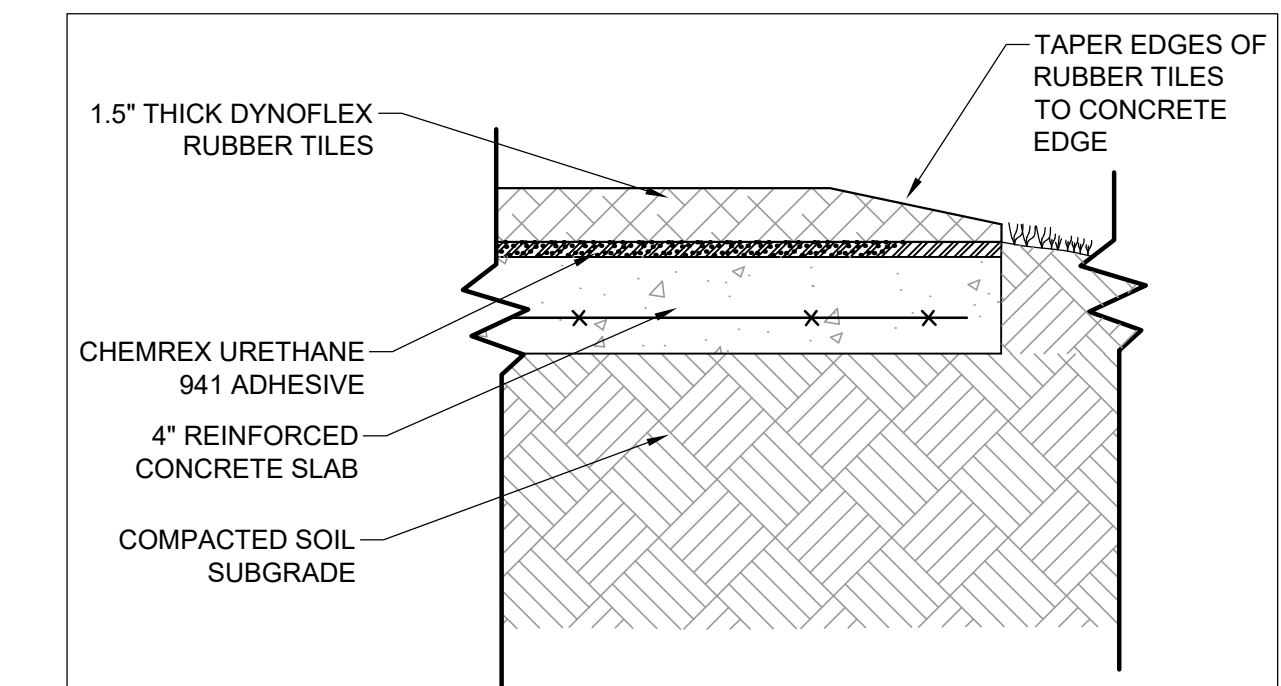
7 PAVER OVER CONCRETE BASE-NTS



8 PAVERS AT SIDEWALK-NTS



9 PAVERS AT CURBING-NTS



11 RUBBER TILES OVER CONCRETE PADS

NOTE: SEE EQUIP. DETAILS FOR INDIVIDUAL SUPPORT FOOTINGS



12 CROSS FIT STATION #2



13 CROSS FIT STATION #1



14 CROSS FIT STATION #3 (2 UNITS ON THIS STATION)

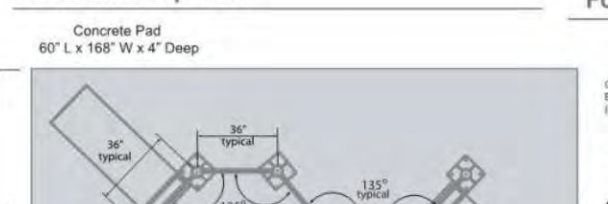
All dimensions listed here are approximate. Drawings are not to scale. After unpacking the equipment (and assembling if necessary) please make your own measurements, verifying the location of the concrete pads. If you find this installation process too challenging, please consult with a professional.

Standard Installation Instructions:

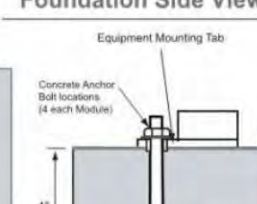
- Note: Unpack equipment and preassemble, then layout dry fit the equipment on any level ground first, measure and collect the dimensions, then proceed to the next step.
- Dig foundation, and/or set forms according to the rough dimensions explained below. The concrete pad dimensions listed here is the minimum surface area needed.
- Pour concrete, finish surface flat as necessary and let fully cure as per concrete provider instructions.
- Once the concrete is fully hardened, position equipment on pad as per dry fit measurements and use equipment as a template to mark bolt location holes. Remove the equipment before drilling anchor bolts holes according to manufacturer instructions, using "redhead" bolts, concrete expansion bolts, epoxy/bolt combinations, or use your own means and methods to secure the equipment to the pad. If you do use your own method, TriActive America is not responsible for installation defects or damage to the equipment.
- Level equipment if necessary, secure it in place, clean off equipment and area.

For installation options with alternative surfacing, or other conditions, please contact TriActive America or our local sales partners. This specification sheet shows the minimum requirements for installation. If you have questions, discrepancies with the equipment, or these specifications, or difficulties with the installation, immediately contact us at 1-800-587-4228.

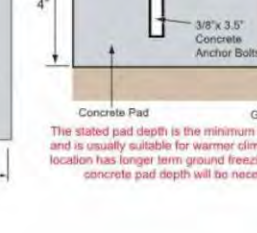
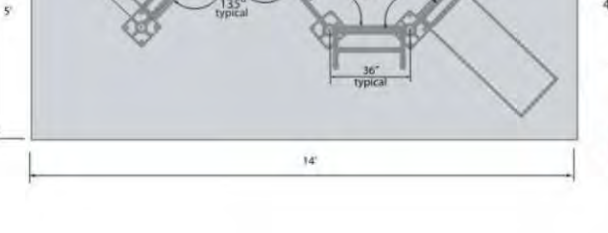
Foundation Top View



Foundation Side View



Anchor Bolt Assembly



Rev. 10/18

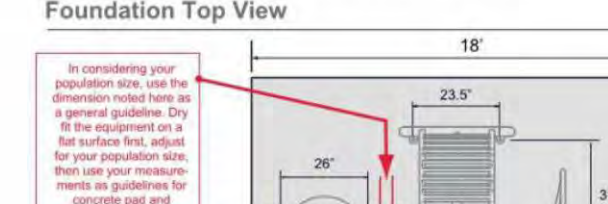
All dimensions listed here are approximate. Drawings are not to scale. After unpacking the equipment (and assembling if necessary) please make your own measurements, verifying the location of the concrete pads. If you find this installation process too challenging, please consult with a professional.

Standard Installation Instructions:

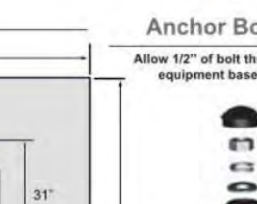
- Note: You can customize the distance (leg length) between the Sitting Rotator and handle pole depending on the general size of the population where equipment is used. Layout dry fit the equipment on any level ground first, measure and collect the dimensions for your population size, then proceed to the next step.
- Dig foundation, and/or set forms according to the dimensions explained below, or dry fit dimensions for more accuracy.
- Pour concrete, finish surface flat as necessary and let fully cure as per concrete provider instructions.
- Once the concrete is fully hardened, position equipment on pad as per dry fit measurements and use equipment as a template to mark bolt location holes. Drill anchor bolt holes according to manufacturer instructions, using "redhead" bolts, concrete expansion bolts, epoxy/bolt combinations, or use your own means and methods to secure the equipment to the pad. If you do use your own method, TriActive America is not responsible for installation defects or damage to the equipment.
- Level equipment if necessary, secure it in place, clean off equipment and area.

For installation options with alternative surfacing, or other conditions, please contact TriActive America or our local sales partners. This specification sheet shows the minimum requirements for installation. If you have questions, discrepancies with the equipment, or these specifications, or difficulties with the installation, immediately contact us at 1-800-587-4228.

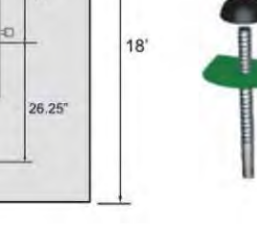
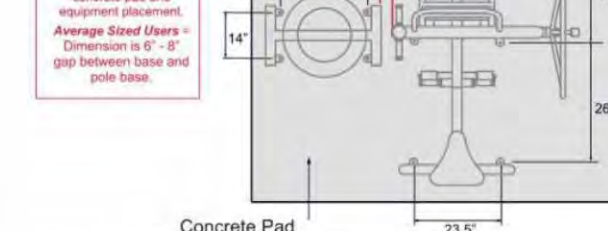
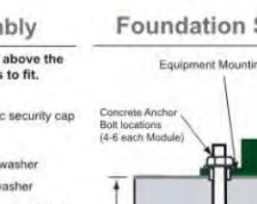
Foundation Top View



Foundation Side View



Anchor Bolt Assembly



Rev. 10/18

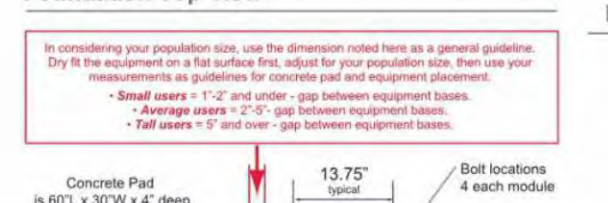
All dimensions listed here are approximate. Drawings are not to scale. After unpacking the equipment (and assembling if necessary) please make your own measurements, verifying the location of the concrete pads. If you find this installation process too challenging, please consult with a professional.

Standard Installation Instructions:

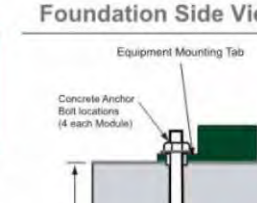
- Note: You can customize the distance (leg length) between the seat frame and wheel frame depending on the general size of the population where equipment is used. Layout dry fit the equipment on any level ground first, measure and collect the dimensions for your population size, then proceed to the next step.
- Dig foundation, and/or set forms according to the dimensions explained below, or dry fit dimensions for more accuracy.
- Pour concrete, finish surface flat as necessary and let fully cure as per concrete provider instructions.
- Once the concrete is fully hardened, position equipment on pad as per dry fit measurements and use equipment as a template to mark bolt location holes. Drill anchor bolt holes according to manufacturer instructions, using "redhead" bolts, concrete expansion bolts, epoxy/bolt combinations, or use your own means and methods to secure the equipment to the pad. If you do use your own method, TriActive America is not responsible for installation defects or damage to the equipment.
- Level equipment if necessary, secure it in place, clean off equipment and area.

For installation options with alternative surfacing, or other conditions, please contact TriActive America or our local sales partners. This specification sheet shows the minimum requirements for installation. If you have questions, discrepancies with the equipment, or these specifications, or difficulties with the installation, immediately contact us at 1-800-587-4228.

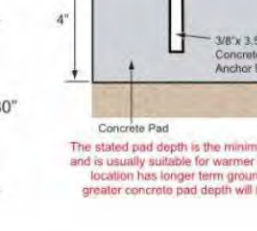
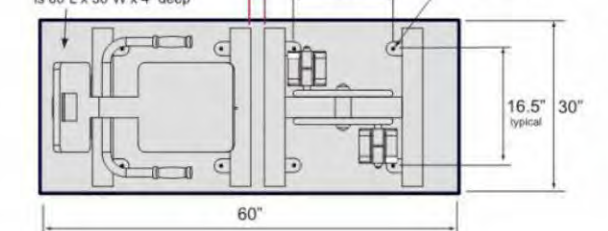
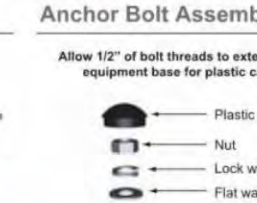
Foundation Top View



Foundation Side View



Anchor Bolt Assembly



Rev. 10/18

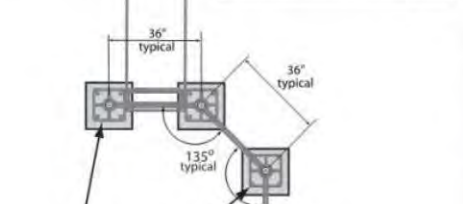
All dimensions listed here are approximate. Drawings are not to scale. After unpacking the equipment (and assembling if necessary) please make your own measurements, verifying the location of the concrete pads. If you find this installation process too challenging, please consult with a professional.

Alternative Installation Instructions:

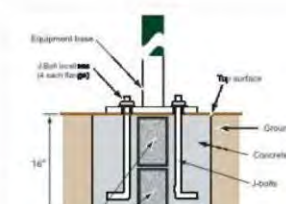
- Layout dry fit the equipment on any level ground first, measure and collect the dimensions, then proceed to the next step.
- Dig foundation holes, and/or set forms for the concrete pads according to the dimensions explained below (and/or use dry fit measurements for more accuracy).
- Position equipment above the holes or concrete forms according to dimensions using the equipment blocks for support as noted in the diagrams.
- Connect the supplied J-Bolts bolts and other hardware in the procedure noted here to the equipment bases, then pour concrete into holes with equipment in position.
- With this "Alternative" installation allow concrete to fully cure with J-Bolts encased into the concrete. Level equipment before concrete sets, secure it in place, clean off equipment and the area. Before using equipment allow concrete to fully cure as per providers instructions.

For installation options with alternative surfacing, or other conditions, please contact TriActive America or our local sales partners. This specification sheet shows the minimum requirements for installation. If you have questions, discrepancies with the equipment, or these specifications, or difficulties with the installation, immediately contact us at 1-800-587-4228.

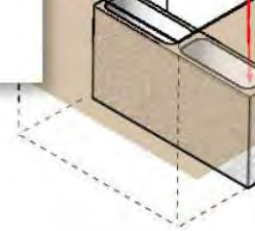
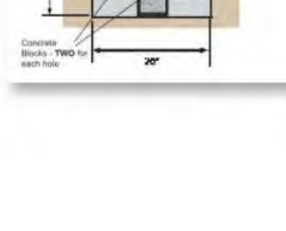
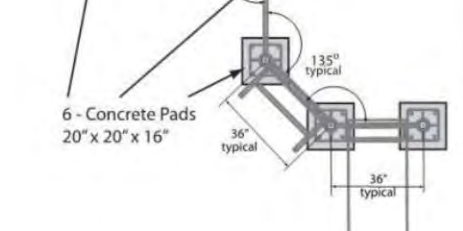
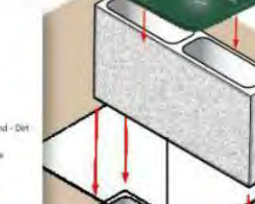
Foundation Top View



Foundation Side View



Foundation Bolt Assembly



Rev. 10/18

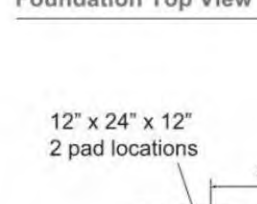
All dimensions listed here are approximate. Drawings are not to scale. After unpacking the equipment (and assembling if necessary) please make your own measurements, verifying the location of the concrete pads. If you find this installation process too challenging, please consult with a professional.

Alternative Installation Instructions:

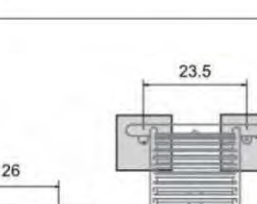
- Note: You can customize the distance (leg length) between the Pole Handle depending on the size of the population where equipment is used. Layout dry fit the equipment on any level ground first, measure and collect the dimensions for your population size, then proceed to the next step.
- Dig foundation holes, and/or set forms for the concrete pads according to the dimensions explained below (or use dry fit measurements for more accuracy).
- Position equipment above the holes or concrete forms according to dimensions using the equipment blocks for support as noted in the diagrams.
- Connect the supplied J-Bolts bolts and other hardware as noted here to the frame, then pour concrete into holes.
- With this "Alternative" installation allow concrete to fully cure with J-Bolts encased into the concrete. Level equipment before concrete sets, secure it in place, clean off equipment and the area. Before using equipment allow concrete to fully cure as per providers instructions.

For installation options with alternative surfacing, or other conditions, please contact TriActive America or our local sales partners. This specification sheet shows the minimum requirements for installation. If you have questions, discrepancies with the equipment, or these specifications, or difficulties with the installation, immediately contact us at 1-800-587-4228.

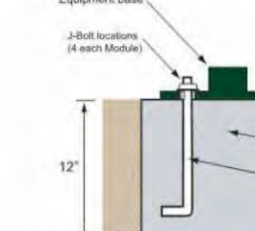
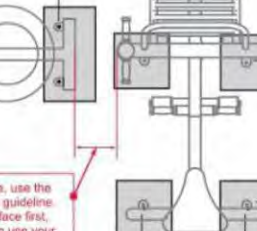
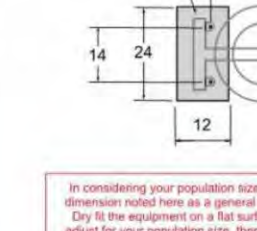
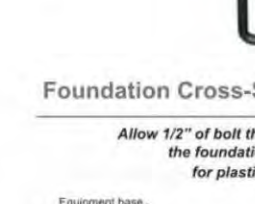
Foundation Top View



Foundation Side View



Foundation Cross-Section



Rev. 10/18

All dimensions listed here are approximate. Drawings are not to scale. After unpacking the equipment (and assembling if necessary) please make your own measurements, verifying the location of the concrete pads. If you find this installation process too challenging, please consult with a professional.

Alternative Installation Instructions:

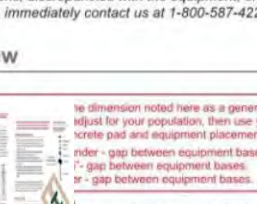
- Note: You can customize the distance (leg length) between the seat frame and wheel frame depending on the size of the population where equipment is used. Layout dry fit the equipment on any level ground first, measure and collect the dimensions for your population size, then proceed to the next step.
- Dig foundation holes, and/or set forms for the concrete pads according to the dimensions explained below (or use dry fit measurements for more accuracy).
- Position equipment above the holes or concrete forms according to dimensions using the equipment blocks for support as noted in the diagrams.
- Connect the supplied J-Bolts bolts and other hardware as noted here to the frame, then pour concrete into holes.
- With this "Alternative" installation allow concrete to fully cure with J-Bolts encased into the concrete. Level equipment before concrete sets, secure it in place, clean off equipment and the area. Before using equipment allow concrete to fully cure as per providers instructions.

For installation options with alternative surfacing, or other conditions, please contact TriActive America or our local sales partners. This specification sheet shows the minimum requirements for installation. If you have questions, discrepancies with the equipment, or these specifications, or difficulties with the installation, immediately contact us at 1-800-587-4228.

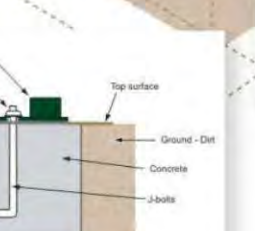
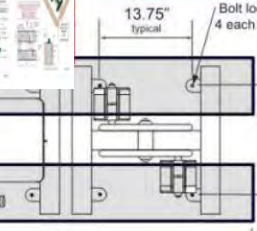
Foundation Top View



Foundation Side View



Foundation Bolt Assembly



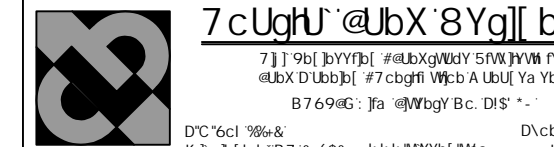
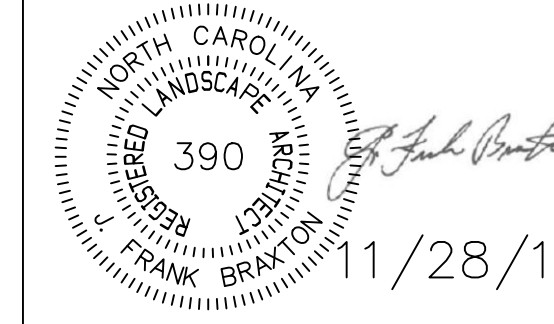
Rev. 10/18

JJC A



New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC

ACADIA
HEALTHCARE



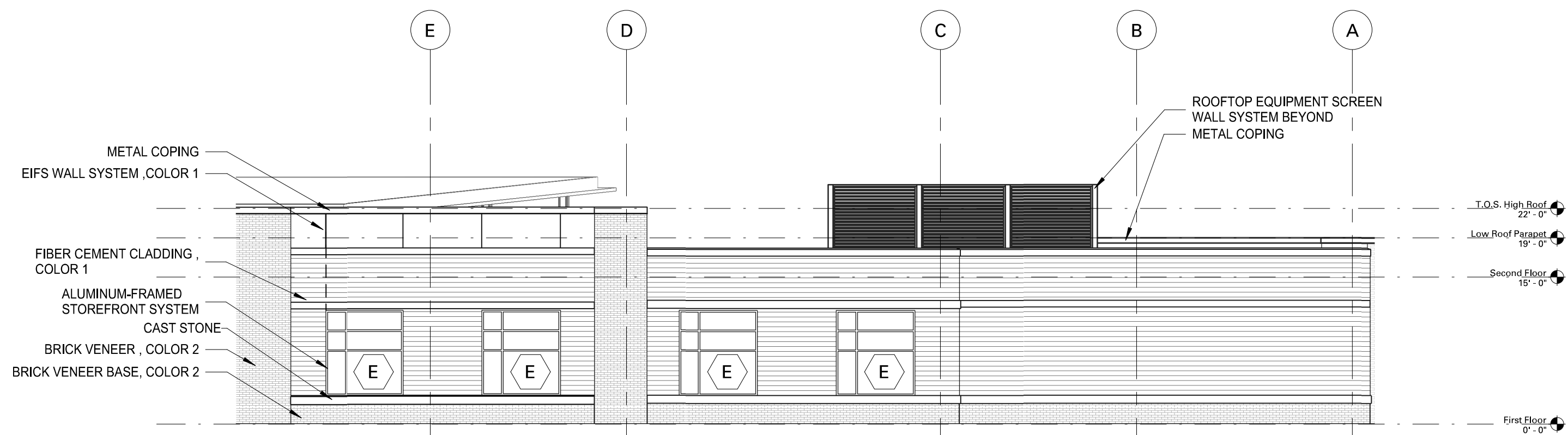
PROJECT NUMBER
15678.01
DATE
January 13, 2017

LANDSCAPE

D-08

WILMINGTON
NORTH CAROLINA
Public Services Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____

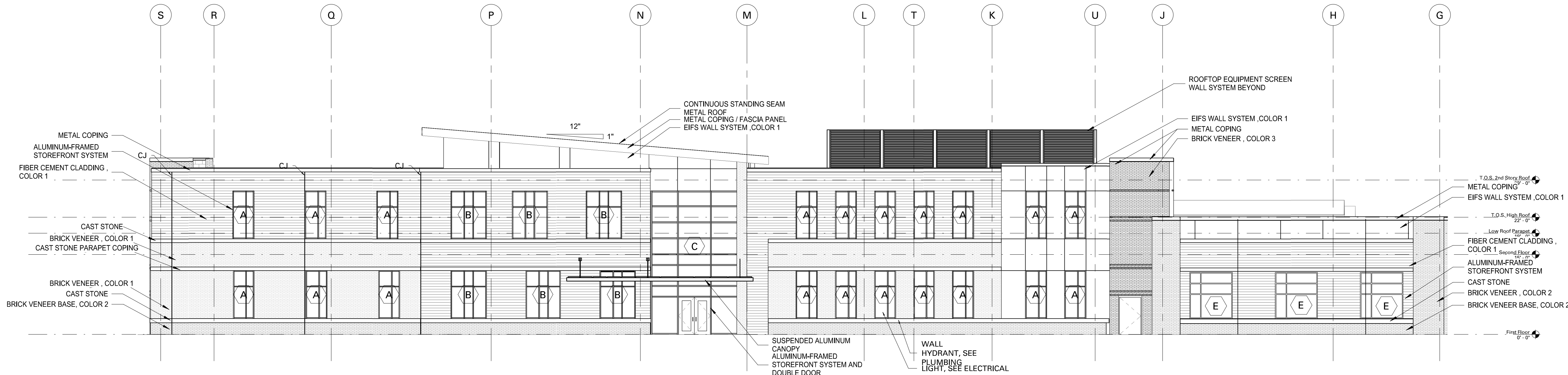
WILMINGTON
NORTH CAROLINA
Approved Construction Plan
Name: _____ Date: _____
Planning: _____
Traffic: _____
Fire: _____



1 NORTH ELEVATION - PART A

A1.1A-d

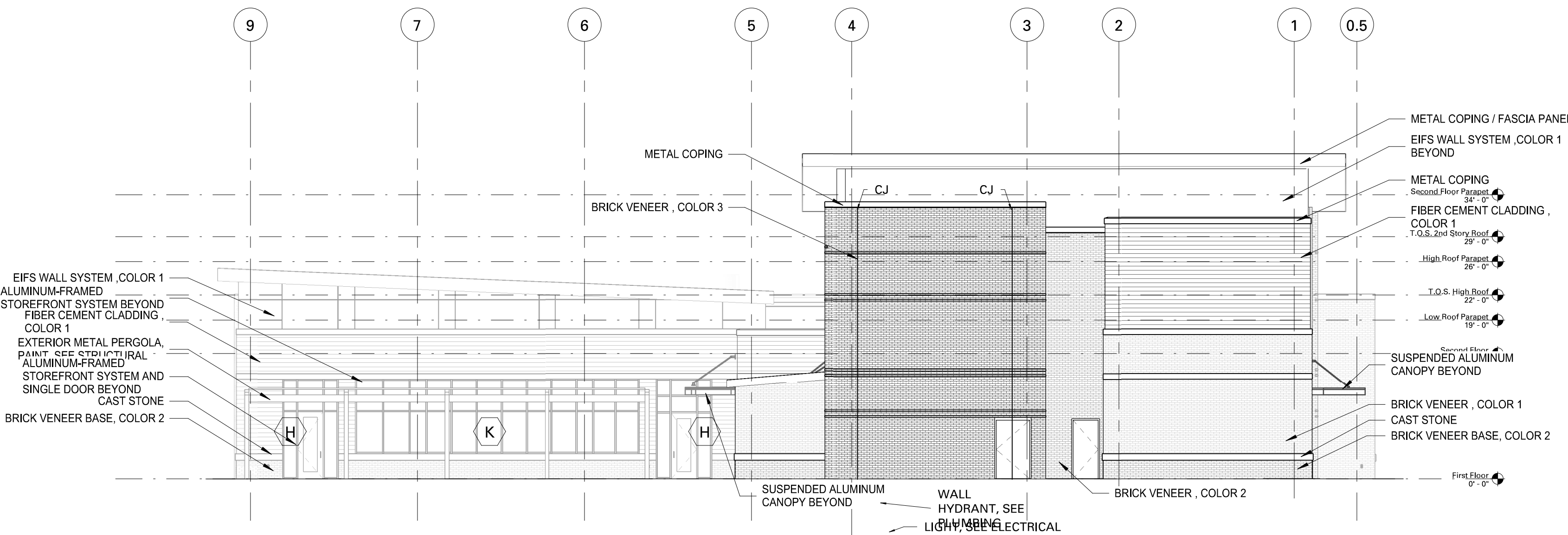
SCALE: 3/32" = 1' - 0"



2 NORTH ELEVATION - PART B

A1.1A-d

SCALE: 3/32" = 1' - 0"



3 EAST ELEVATION

A1.1B-d

SCALE: 3/32" = 1' - 0"

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

CITY OF
WILMINGTON
NORTH CAROLINA

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

Signed: _____

CITY OF
WILMINGTON
NORTH CAROLINA

Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

Fire _____

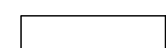
MATERIAL LEGEND:



BRICK COLOR #1



EIFS COLOR #1



EIFS COLOR #3



BRICK COLOR #2

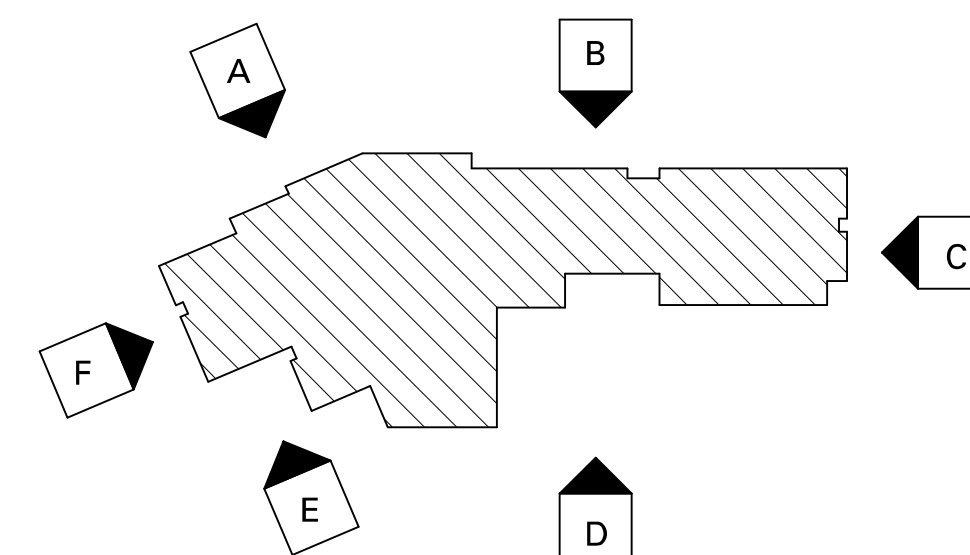


EIFS COLOR #2



BRICK COLOR #3

KEYPLAN PART A AND B:



JJCA

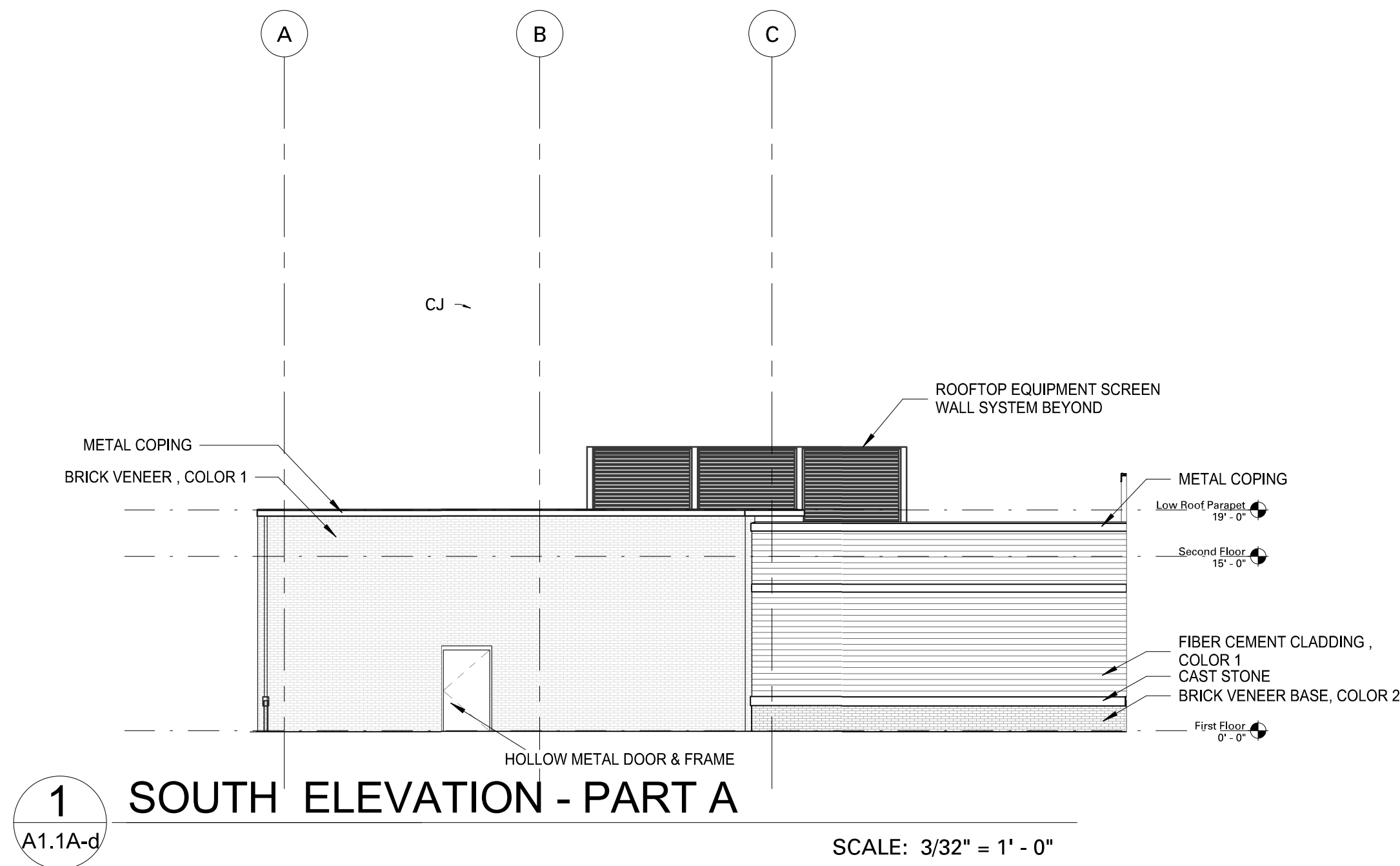


New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC

PROJECT NUMBER
15678.01

DATE
October 19, 2016

A2.1
BUILDING
ELEVATIONS



For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

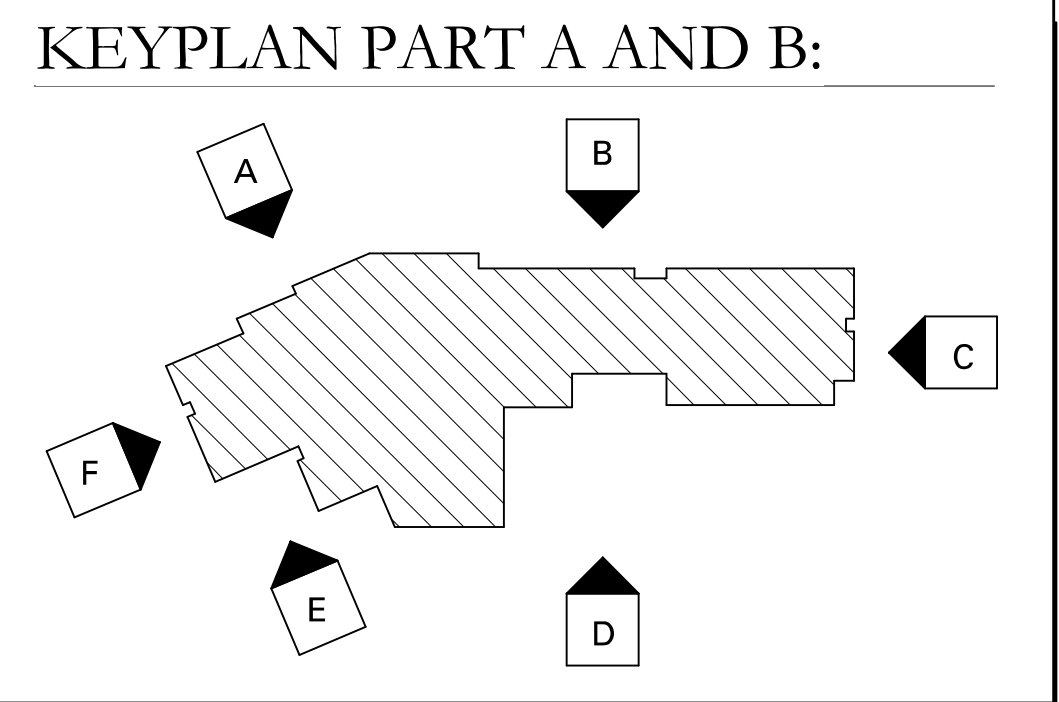
CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

Signed: _____

MATERIAL LEGEND:

BRICK COLOR #1	EIFS COLOR #1	EIFS COLOR #3
BRICK COLOR #2	EIFS COLOR #2	
BRICK COLOR #3		



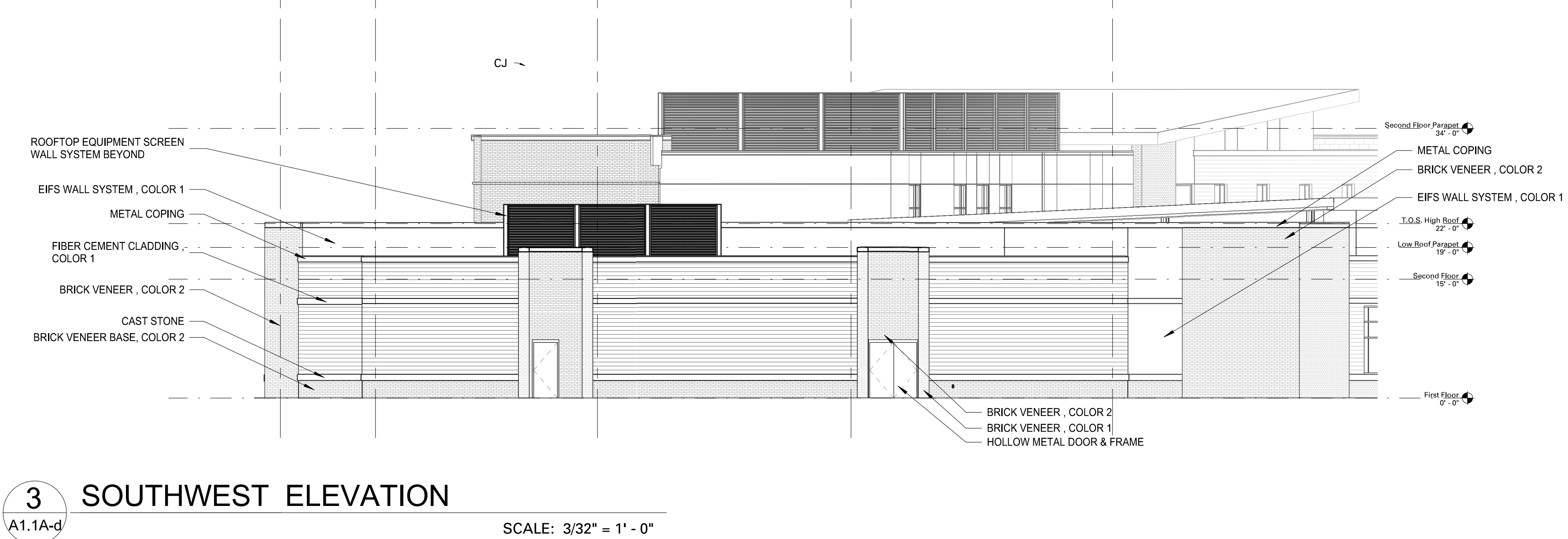
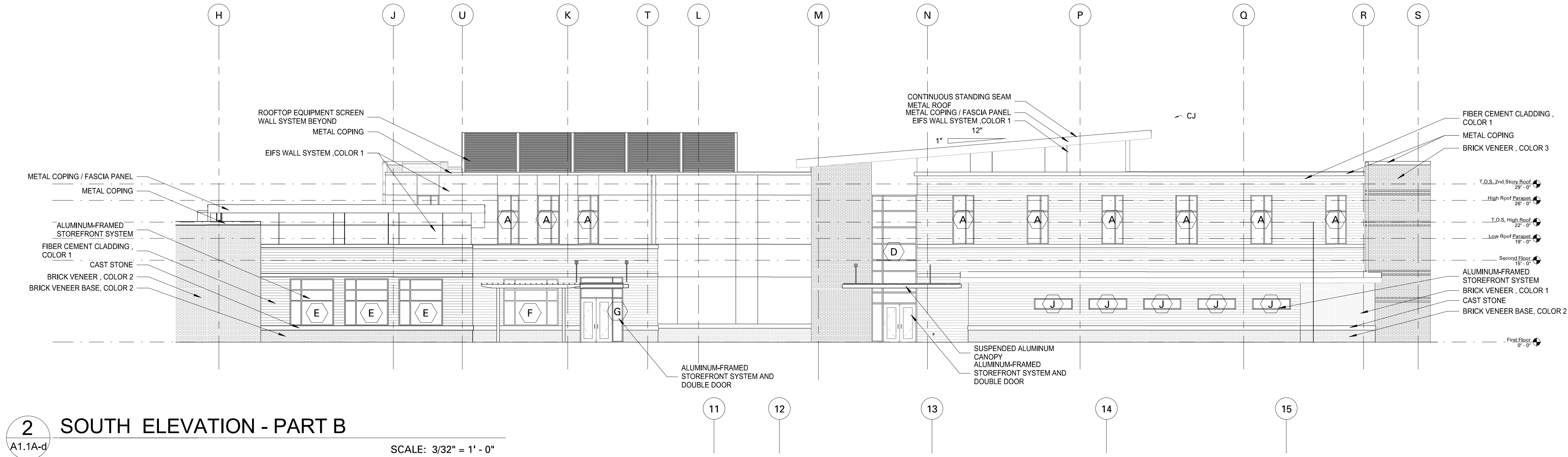
CITY OF WILMINGTON
NORTH CAROLINA
Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

Fire _____



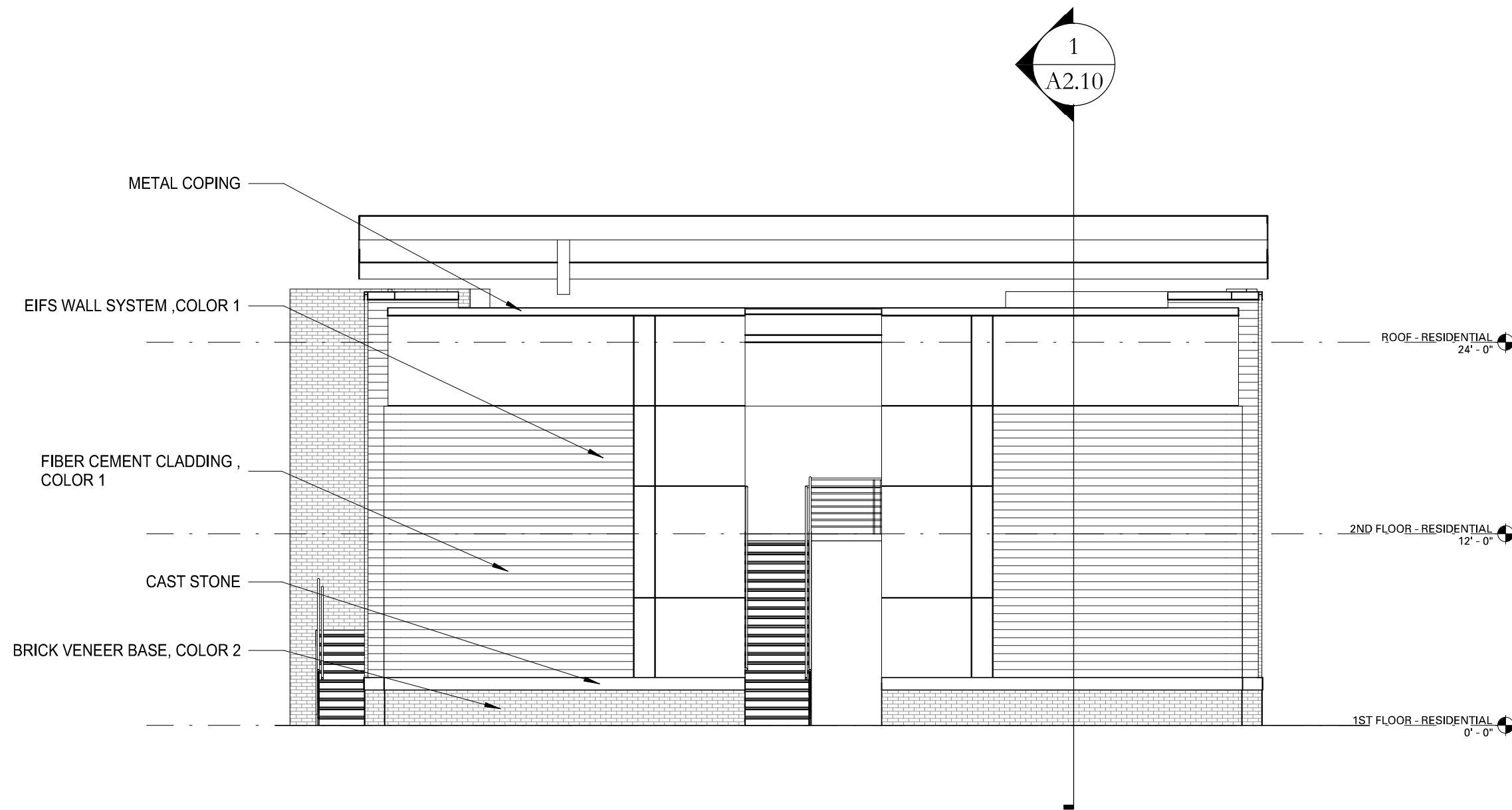
JJCA



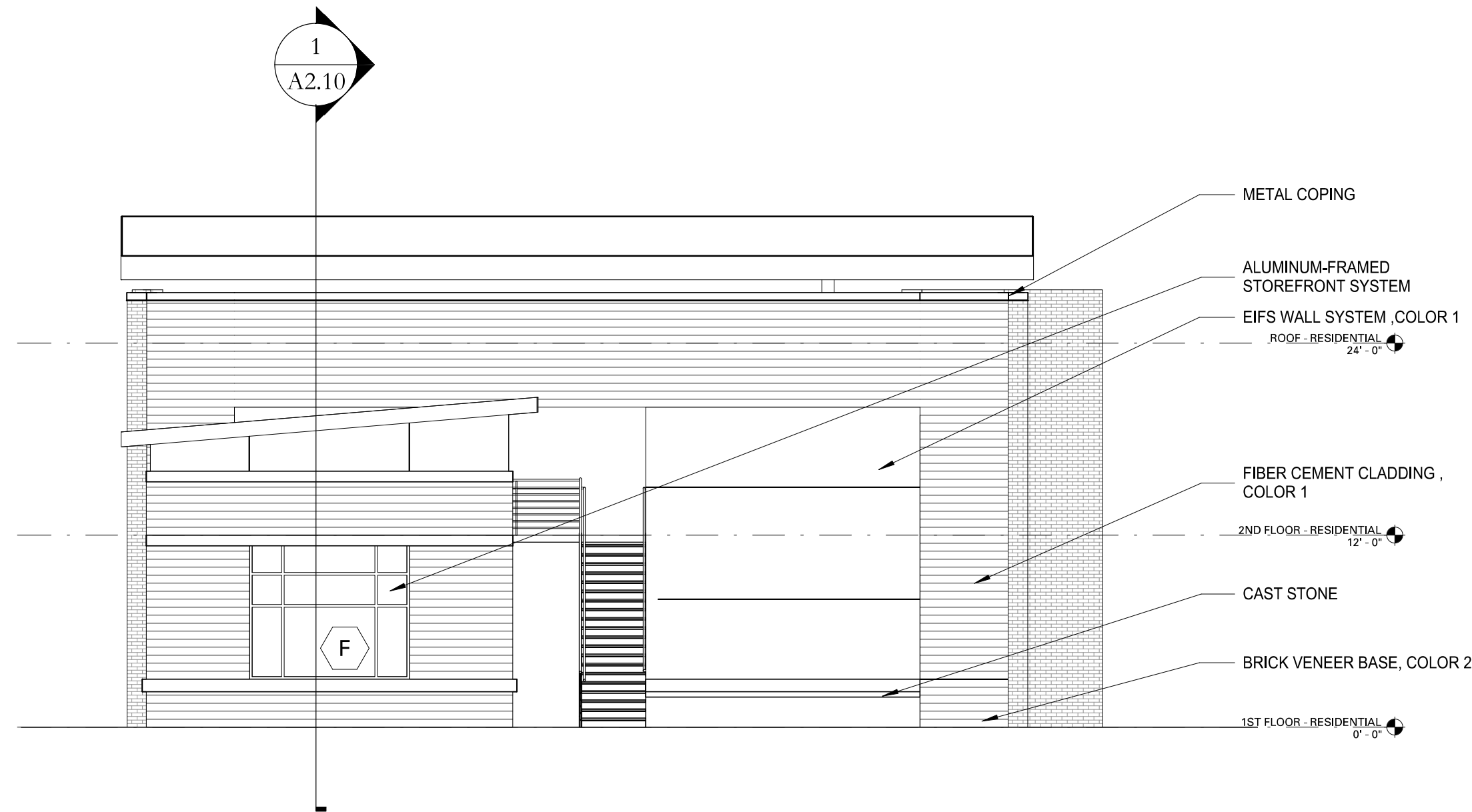
New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC

PROJECT NUMBER
15678.01
DATE
October 19, 2016

A2.2
BUILDING
ELEVATIONS



2 BLDG ELEVATION SOUTH (or) NORTH
A1.1-n

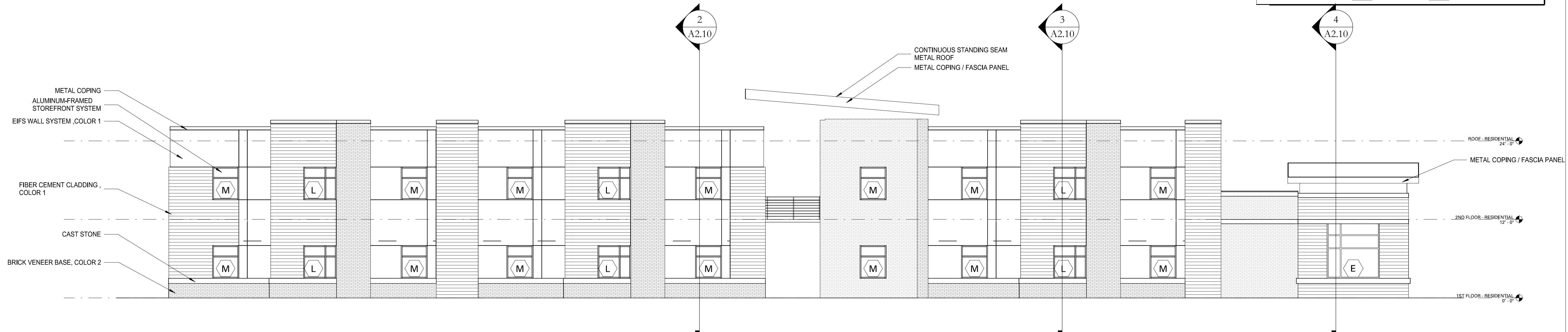


4 BLDG ELEVATION NORTH (or) SOUTH
A1.1-n

MATERIAL LEGEND:

BRICK COLOR #1	EIFS COLOR #1	EIFS COLOR #3
BRICK COLOR #2	EIFS COLOR #2	
BRICK COLOR #3		

KEYPLAN PART C:



1 BLDG ELEVATION EAST (or) WEST
A1.1-n

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____

CITY OF WILMINGTON
NORTH CAROLINA
Approved Construction Plan
Name _____ Date _____
Planning _____
Traffic _____
Fire _____

3 BLDG ELEVATION WEST (or) EAST
A1.1-n

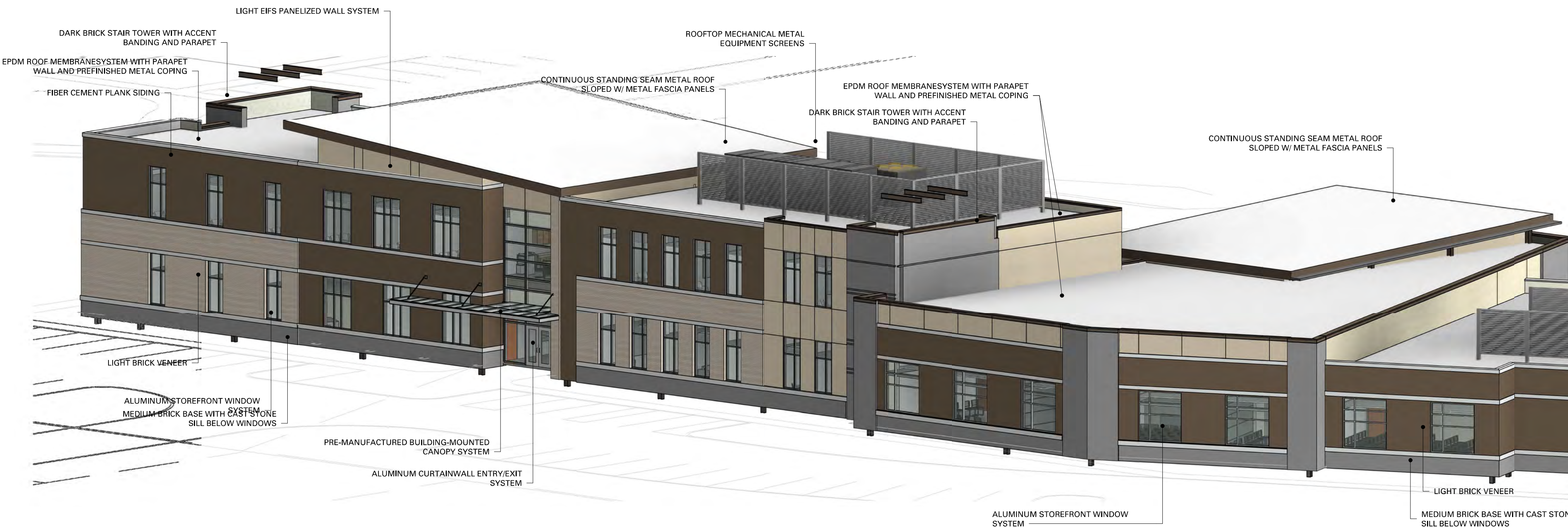
JJCA



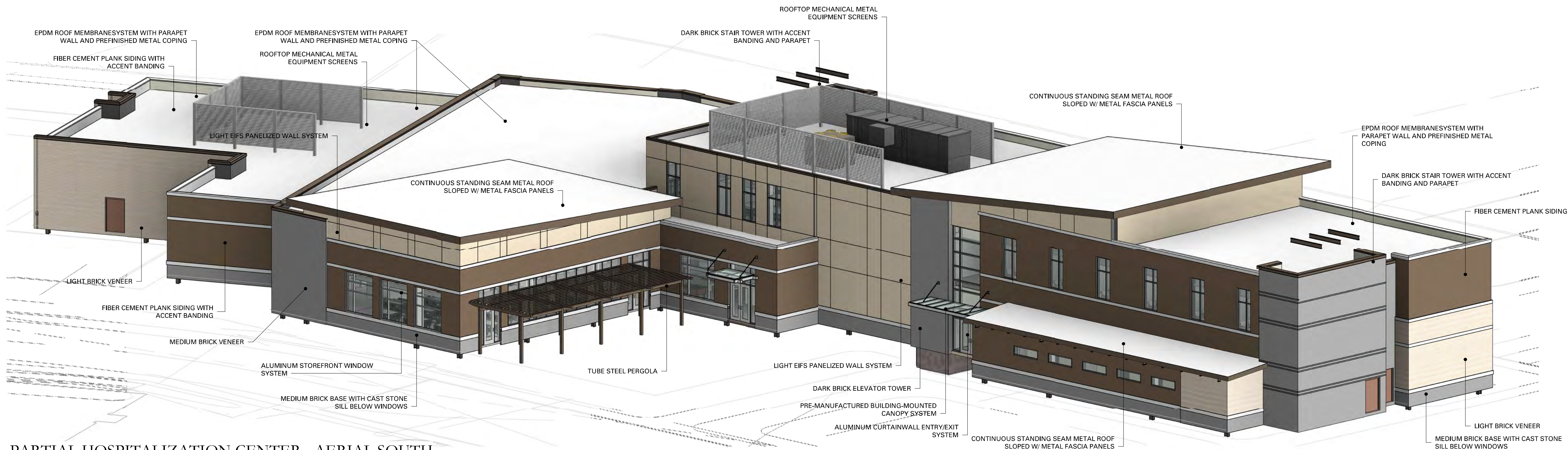
New Patient Dormitories for:
Wilmington Treatment Center
Wilmington, NC

PROJECT NUMBER
15678.01
DATE
October 19, 2016

A2.3
BUILDING
ELEVATIONS



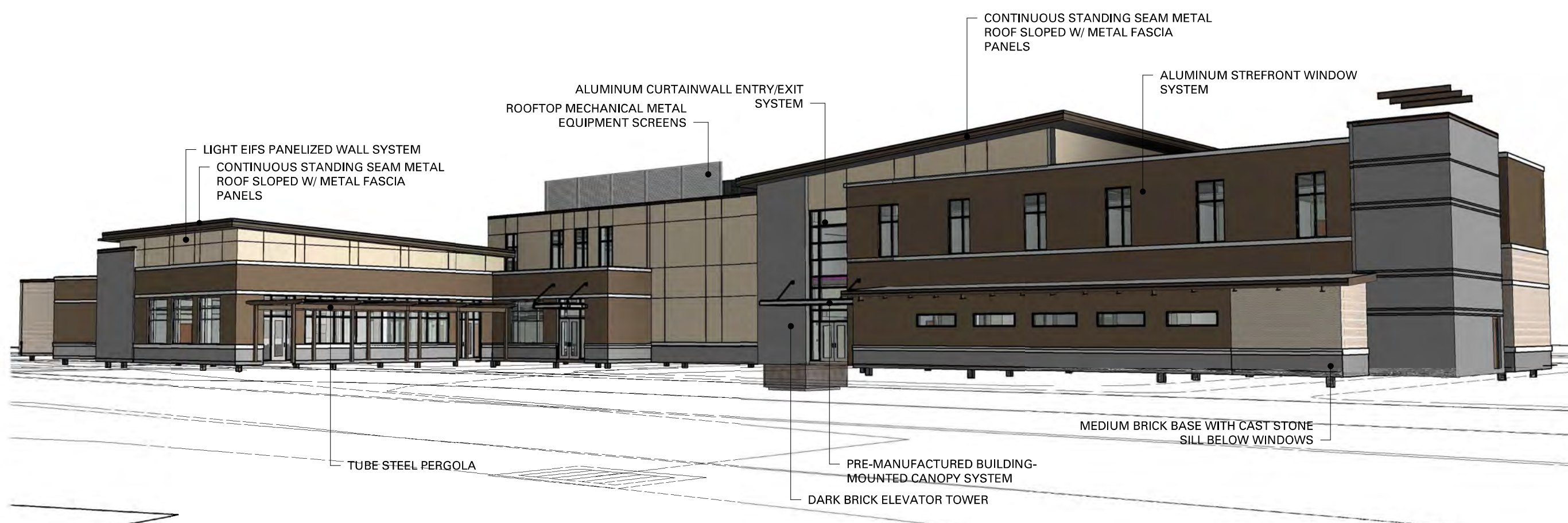
PARTIAL HOSPITALIZATION CENTER - AERIAL NORTH



PARTIAL HOSPITALIZATION CENTER - AERIAL SOUTH



PARTIAL HOSPITALIZATION CENTER - NORTH PERSPECTIVE



PARTIAL HOSPITALIZATION CENTER - SOUTH PERSPECTIVE

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

CITY OF WILMINGTON
NORTH CAROLINA

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

Signed: _____

CITY OF WILMINGTON
NORTH CAROLINA

Approved Construction Plan

Name: _____ Date: _____

Planning: _____

Fire: _____

JJCA



New Partial Hospitalization Center for:
Wilmington Treatment Center
Wilmington, NC

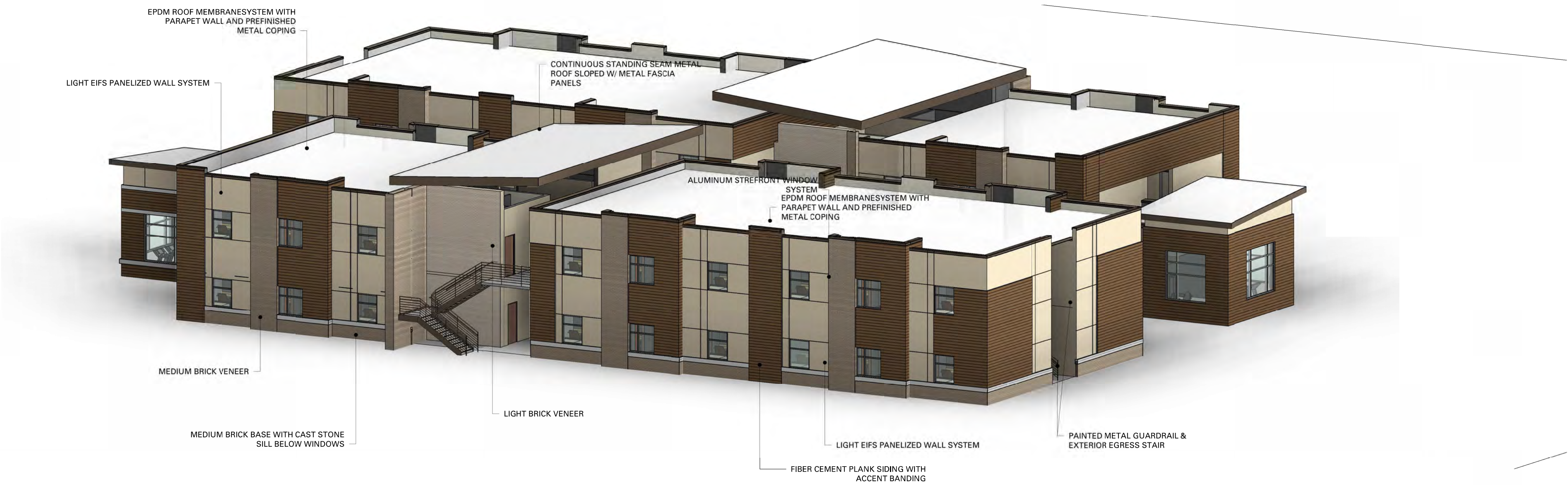
Johnson Johnson Architects, Inc.
4551 Trousdale Drive
Nashville, TN 37204
tel 615.837.0656
fax 615.837.0657

PROJECT NUMBER
15678.01
DATE
October 19, 2016

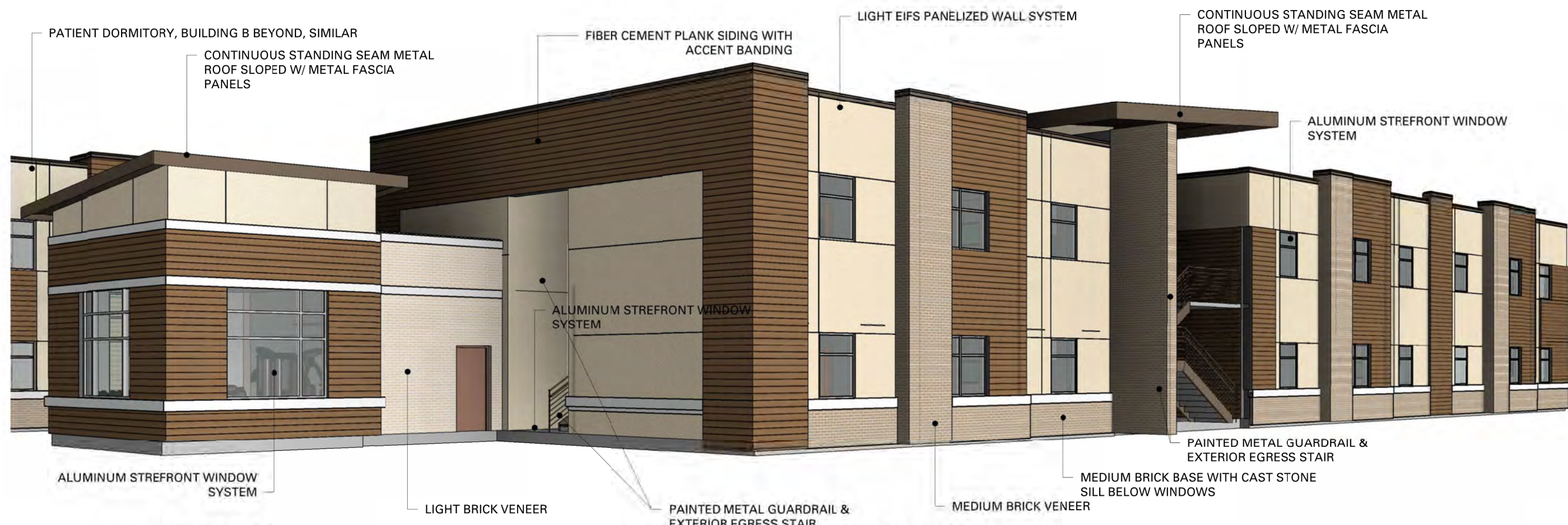
A2.20
EXTERIOR
BUILDING AXONS



TYPICAL RESIDENTIAL UNIT - AERIAL NORTHWEST



TYPICAL RESIDENTIAL UNIT - AERIAL SOUTHWEST



TYPICAL RESIDENTIAL UNIT - NORTHWEST PERSPECTIVE



TYPICAL RESIDENTIAL UNIT - SOUTHWEST PERSPECTIVE

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

WILMINGTON

CITY OF

NORTH CAROLINA

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____

Signed: _____

WILMINGTON

CITY OF

NORTH CAROLINA

Approved Construction Plan

Name _____ Date _____

Planning _____

Traffic _____

Fire _____

JJCA



New Patient Dormitories for:
Wilmington Treatment Center
Wilmington, NC

PROJECT NUMBER
15678.01
DATE
October 19, 2016

A2.21
EXTERIOR
BUILDING AXONS