

REVISIONS		
No./Date	Description	By

NOTE: CONTRACTOR TO DEMOLISH EXIST. CONCRETE DRIVEWAYS PRIOR TO NEW CONSTRUCTION

EXISTING UNDERGROUND STRUCTURE TO BE REMOVED

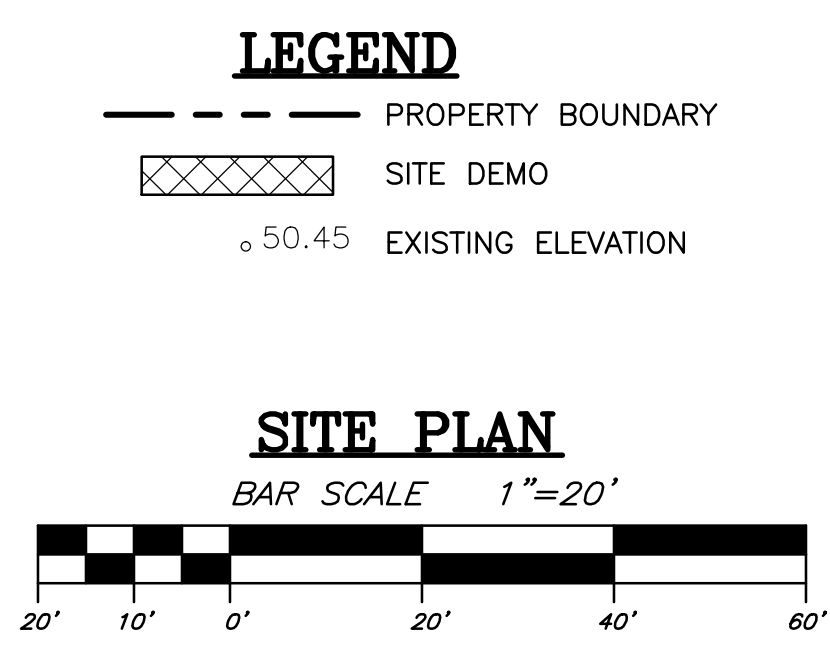
NOTE: CONTRACTOR TO DEMOLISH EXIST. CONCRETE, ASPHALT, STONE, ETC. PRIOR TO NEW CONSTRUCTION

- SITE INVENTORY NOTES:**
- PREPARER OF THE PLAN: TRIPP ENGINEERING, P.C.
  - APPLICANT NAME: 6943 MARKET LLC
  - SITE ADDRESS OF THE DEVELOPMENT: 427 EASTWOOD ROAD
  - PROPERTY OWNER: 6943 MARKET LLC
  - DEVELOPER: 6943 MARKET LLC
  - PROPERTY BOUNDARY: SEE PLAN  
TAX PARCEL INFORMATION: R05013-002-001-001
  - PROPERTY ZONING: RB-REGIONAL BUSINESS
  - ADJACENT PROPERTY OWNER INFORMATION: SEE PLAN
  - VICINITY MAP: SEE PLAN
  - TOPOGRAPHY: SEE PLAN
  - 100-YEAR FLOOD BOUNDARY: N/A
  - EXISTING DITCHES, CREEKS AND STREAMS: SEE PLAN
  - SOIL: KU; KUREB-URBAN
  - CAMA AEC: N/A
  - CAMA LAND CLASSIFICATION: URBAN
  - CONSERVATION RESOURCES: NONE  
ASSOCIATED SETBACKS: N/A
  - HISTORIC OR ARCHAEOLOGICAL SITE: N/A
  - CEMETERIES, BURIAL SITES/GROUNDS: N/A
  - FORESTED AREAS, HABITAT AND DOMINANT SPECIES: N/A
  - WETLANDS: NONE
  - PROTECTED SPECIES OR HABITAT: N/A
  - EXISTING OR PROPOED THOROUGHFARES, BIKE ROUTES, PEDESTRIAN SIDEWALKS OR TRAILS AND TRANSIT FACILITIES: SEE SITE PLAN.

Approved Construction Plan	
Name	Date
Planning	
Traffic	
Fire	

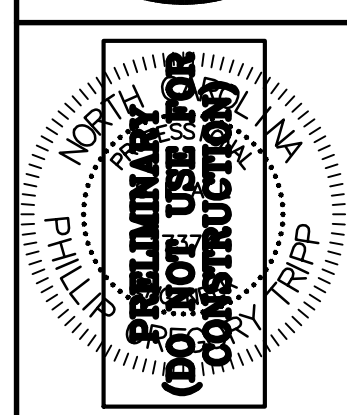
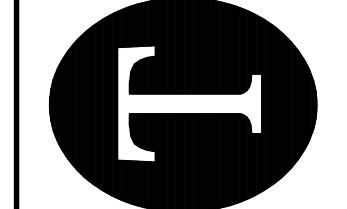
STORMWATER MANAGEMENT PLAN APPROVED	
CITY OF WILMINGTON	
ENGINEERING DEPARTMENT	
DATE	PERMIT #
SIGNED	

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



EXISTING CONDITIONS, SITE INVENTORY AND DEMOLITION PLAN  
**VISION DR. RETAIL**  
 WILMINGTON, NORTH CAROLINA

**TRIPP ENGINEERING, P.C.**  
 419 Chestnut Street  
 Wilmington, North Carolina 28401  
 Phone 910-763-5100  
 Fax 910-763-5631  
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DATE 01-26-16  
DESIGN PGT  
DRAWN EJW

**C1**  
SHEET 1 OF 3  
15016

REVISIONS		
No./Date	Description	By

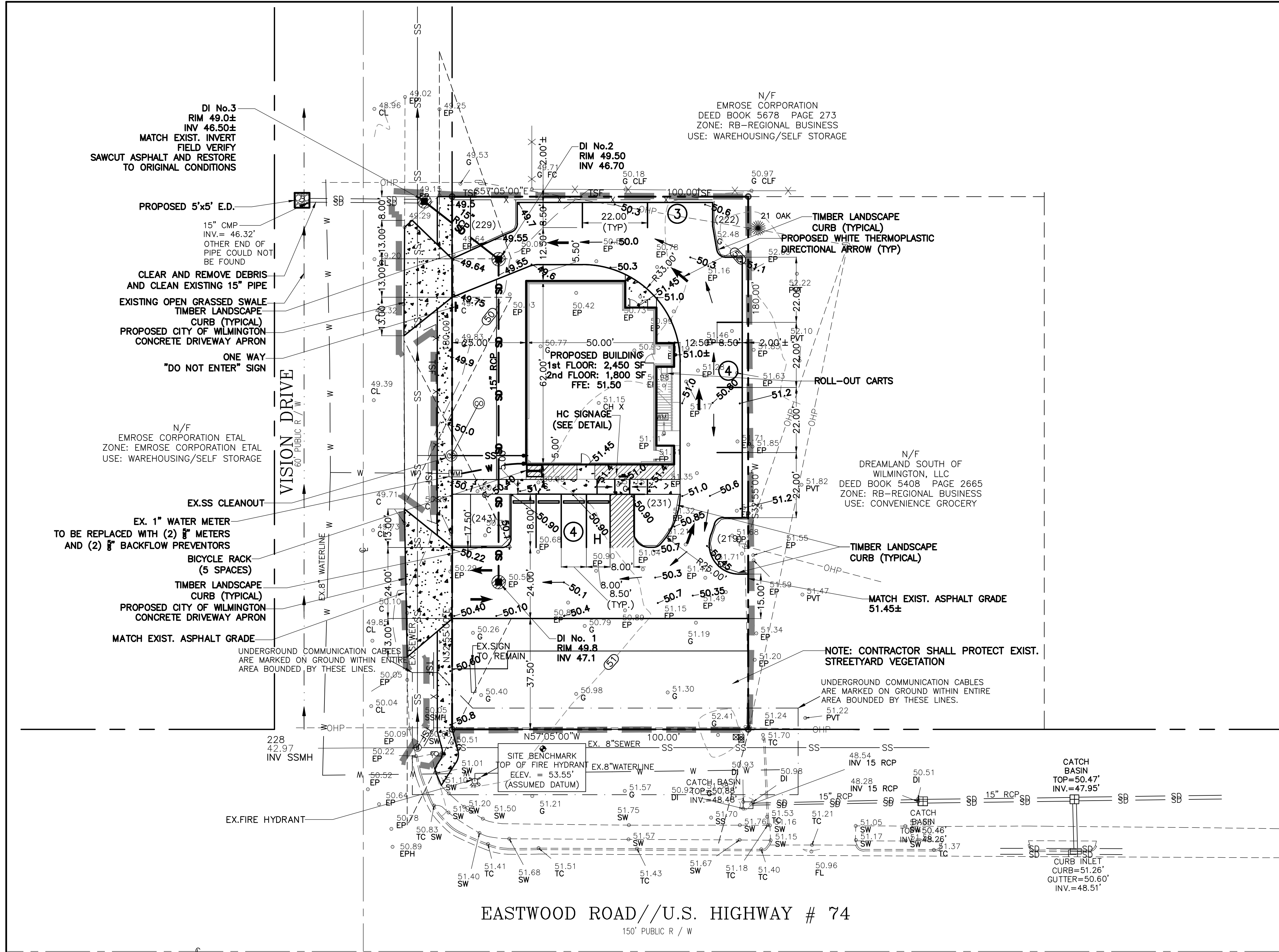


**NOTES:**

- ZONING**
- 1) TOPOGRAPHY COMPLETED BY PATRICK C. BRISTOW LAND SURVEYING, P.C.
  - 2) PERMITTING OF BUSINESS IDENTIFICATION SIGNAGE IS A SEPARATE PROCESS. CITY OF WILMINGTON WILL NOT ALLOW OBSTRUCTIONS WITHIN THE RIGHT-OF-WAY.
  - 3) CONTRACTOR SHALL FIELD VERIFY SIZE, MATERIAL, INVERTS AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF PROPOSED CONNECTIONS.
  - 4) EXISTING EASEMENTS AS SHOWN.
  - 5) CONTRACTOR SHALL MAINTAIN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
  - 6) UNDERGROUND FIRE LINE(S) MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC RIGHT-OF-WAY TO THE BUILDING. CONTACT THE WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-341-0696.
  - 7) BUILDING IS TYPE IIB
- SOLID WASTE**
- 1) SITE TO USE ROLL-OUT TYPE CARTS
- TRAFFIC**
- 1) ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
  - 2) TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
  - 3) CONTACT TRAFFIC ENGINEERING AT 341-7888 TO ENSURE THAT ALL TRAFFIC SIGNALS FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN.
  - 4) CALL TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.
  - 5) ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
  - 6) CONTACT 910-341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
  - 7) ALL TRAFFIC CONTROL SIGNS AND MARKINGS OF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
  - 8) NO ROWS TO BE CLOSED.
  - 9) NO STREETS PROPOSED.
  - 10) OFF SITE PARKING PROPOSED AS SHOWN.
  - 11) DRIVEWAYS TO MEET CITY STANDARDS.
  - 12) ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
  - 14) STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.
  - 15) TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEELCHAIR RAMPS.
- LANDSCAPING**
- 1) A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND THE PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAT.
  - 2) NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR SITE DISTANCE.
  - 3) PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
  - 4) ANY TREES AND/OR AREAS DESIGNATED TO BE PROTECTED MUST BE PROPERLY BARRICADED WITH FENCING AND PROTECTED THROUGHOUT CONSTRUCTION TO INSURE THAT NO CLEARING, GRADING OR STAGING OF MATERIALS WILL OCCUR IN THOSE AREAS.
  - 5) NO EQUIPMENT IS ALLOWED ON SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING IS INSTALLED AND APPROVED. PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTIONS ON TREE PROTECTION METHODS.
- CFPUA**
- 1) WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) DETAILS AND SPECIFICATIONS.
  - 2) PROJECT SHALL COMPLY WITH THE CFPUA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL.
  - 3) IF THE CONTRACTOR DESIRES CFPUA WATER FOR CONSTRUCTION, HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPERS SIDE OF THE WATER METER BOX.
  - 4) ANY IRRIGATION SYSTEM SUPPLIED BY CFPUA WATER SHALL COMPLY WITH THE CFPUA'S CONNECTION CONTROL REGULATION. CALL 332-6419 FOR INFORMATION.
  - 5) ANY BACKFLOW PREVENTION DEVICES REQUIRED BY CFPUA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES FOR USCFCOCHR OR ASSE.
  - 6) PUBLIC WATER AND SEWER EXISTING.
  - 7) CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 PRIOR TO DOING ANY DIGGING, CLEARING OR GRADING.
  - 8) ANY IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN AND FREEZER SENSOR.
  - 9) CONTRACTOR TO FIELD VERIFY EXISTING WATER AND SEWER SERVICE LOCATIONS, SIZES AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF ANY CONFLICTS.
  - 10) A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. CONTACT 910-341-5888 FOR MORE DETAILS.
- DRAINAGE**
- 1) SHEET FLOW TO PROPOSED DROP INLETS TO EXISTING STORM DRAIN SYSTEM.

**SITE DATA:**

PROPERTY OWNER	6943 MARKET LLC
PROJECT ADDRESS	108 VISION DRIVE
FIN NUMBER	R05013-002-001-001
AREA NOT IN A FEMA 100-YEAR FLOOD ZONE.	
ZONING DISTRICT	RB-REGIONAL BUSINESS
DISTURBED AREA	.50 AC.
SETBACKS REQUIRED	FRONT: 20' REAR: 10' SIDE: 0' CORNER LOT SIDE: 20'
PROPOSED BUILDING SETBACKS	FRONT: 89' REAR: 28' SIDE: 25' CORNER LOT SIDE: 25'
TRACT AREA	18,000 SF (0.41 AC)
BUILDING USE	RETAIL (PAINT STORE)
PROPOSED BUILDING AREA (GROSS)	4,250 SF
BUILDING LOT COVERAGE (2,450/18,000)	14%
NUMBER OF UNITS	2
NUMBER OF BUILDINGS	25'
BUILDING HEIGHT	2
NUMBER OF STORIES	1st FLOOR 2,450 SF 2nd FLOOR 1,800 SF
EXISTING IMPERVIOUS AREAS:	
EXISTING BUILDING	0 SF
EXISTING CONCRETE	1,420 SF
EXISTING CRUSHED STONE	0 SF
EXISTING ASPHALT	3,708 SF
EXISTING IMPERVIOUS AREA	5,128 SF (28%)
PROPOSED IMPERVIOUS AREAS:	
PROPOSED BUILDING FOOTPRINT	2,450 SF
PROPOSED ASPHALT	6,968 SF
PROPOSED CONCRETE	495 SF
EXISTING IMPERVIOUS (TO REMAIN)	0 SF
TOTAL IMPERVIOUS AREA	9,913 SF (55%)
PARKING REQUIRED: (RETAIL/OFFICE)	3,000 SF
MAXIMUM: 1/200 SF (3,000/200)	15
MINIMUM: 1/400 SF (3,000/400)	8
PARKING REQUIRED: (WAREHOUSES)	1,250 SF
REQUIREMENT: 1/1,250 SF (1,250/1,000)	2
TOTAL PARKING REQUIRED (MAXIMUM):	17
TOTAL PARKING REQUIRED (MINIMUM):	10
TOTAL PARKING PROVIDED:	11
CAMA LAND USE:	URBAN
PUBLIC WATER AND SEWER BY CFPUA	
EXISTING WATER FLOW:	561 GPD
EXISTING SEWER FLOW:	510 GPD
PROPOSED WATER FLOW:	120 GPD/1000 SF x 4,250 SF x 110%
PROPOSED SEWER FLOW:	561 GPD
120 GPD /1000 SF x 4,250 SF)	510 GPD
HANDICAP SPOTS REQUIRED	PROPOSED
(1-25 SPOTS= 1 HANDICAP SPOT)	11 SPOTS/25=1
11 SPOTS/25=1	1 HANDICAP SPOTS
BICYCLE PARKING REQUIRED (11 SPACES)	5 BICYCLE PARKS
BICYCLE PARKING PROPOSED	5 BICYCLE PARKS



EASTWOOD ROAD//U.S. HIGHWAY # 74  
150' PUBLIC R / W

HILLSDALE DR.  
50' PUBLIC R / W

**LEGEND**

- 32--- EXISTING CONTOUR
- PROPERTY BOUNDARY
- SS PROPOSED SEWER
- W PROPOSED WATER
- SD PROPOSED STORM WATER
- LIMITS OF DISTURBANCE
- TSF x TSF TEMPORARY SILT FENCE
- PROPOSED CONCRETE AREA

**SITE PLAN**

BAR SCALE 1"=20'



Approved Construction Plan

Name	Date

STORMWATER MANAGEMENT PLAN  
APPROVED

CITY OF WILMINGTON  
ENGINEERING DEPARTMENT

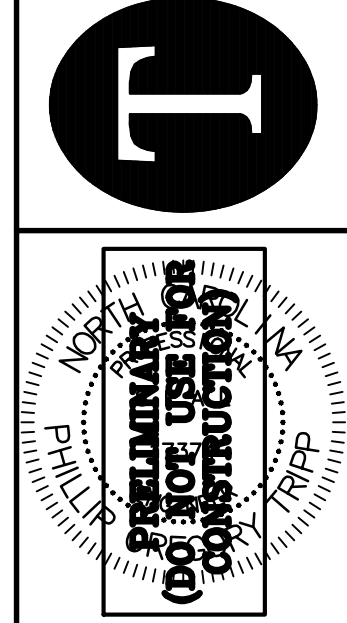
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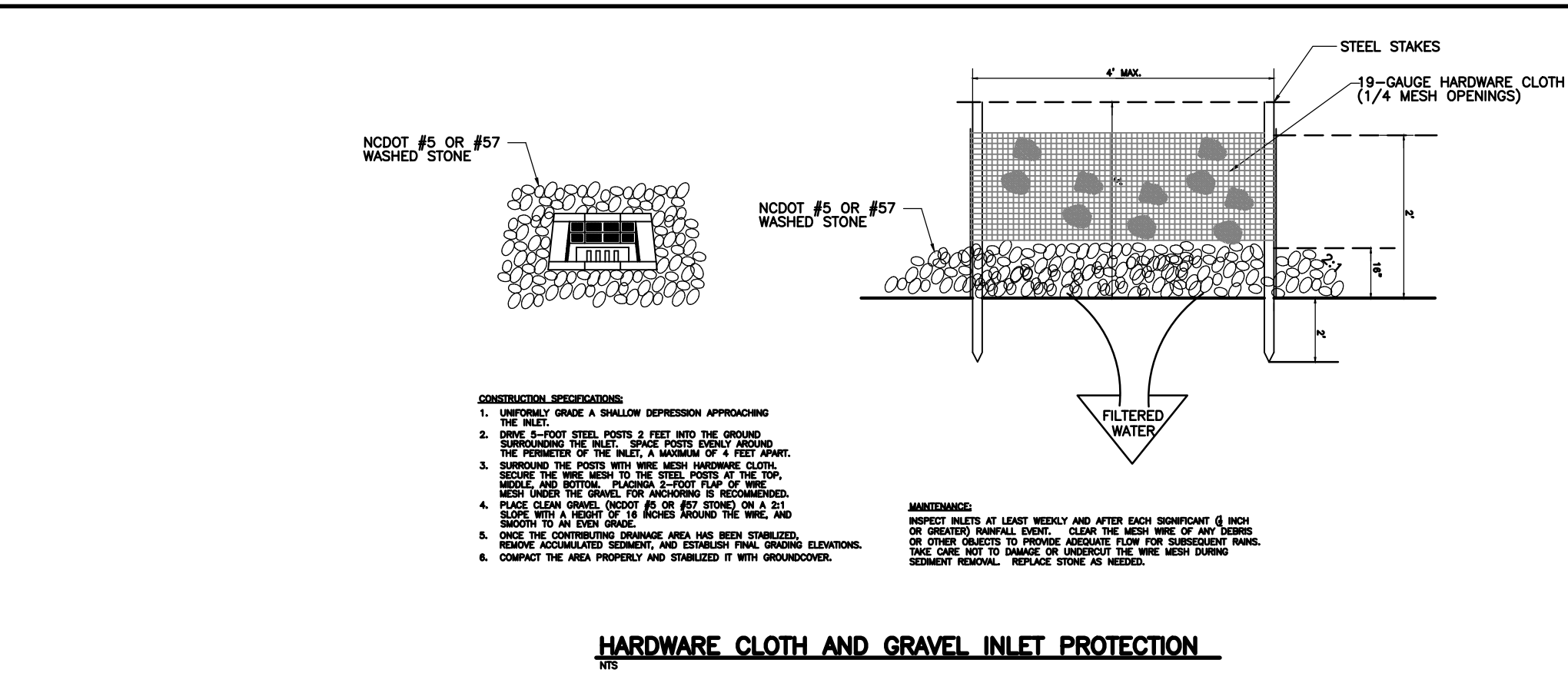
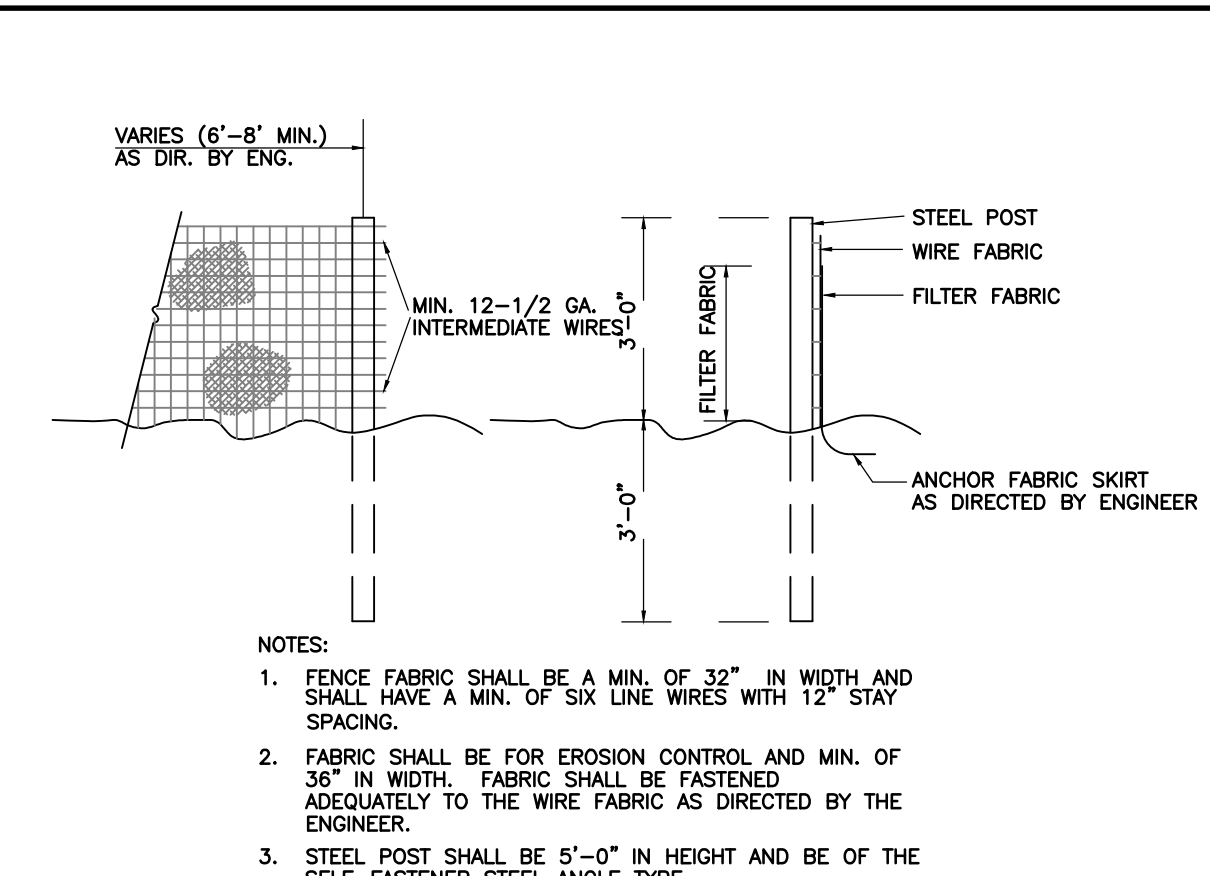
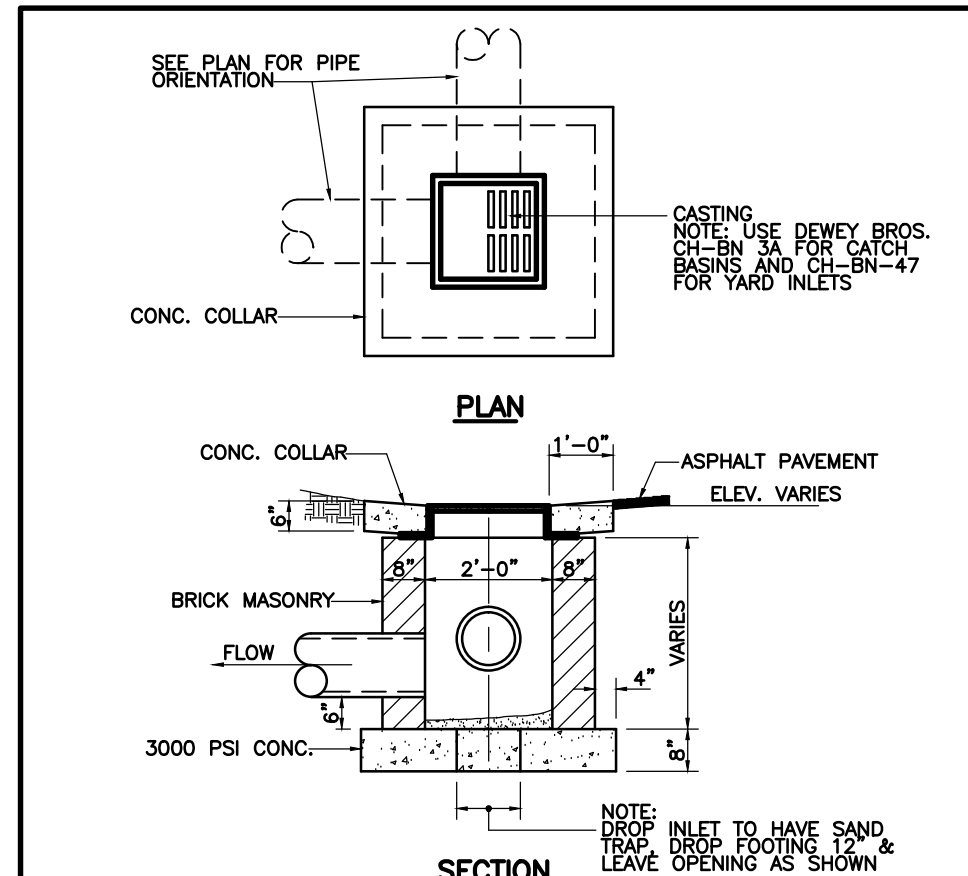
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GRADING, DRAINAGE, EROSION CONTROL, UTILITY AND STORMWATER MANAGEMENT PLAN  
**VISION DR. RETAIL**  
 WILMINGTON, NORTH CAROLINA

**TRIPP ENGINEERING, P.C.**  
 419 Chestnut Street  
 Wilmington, North Carolina 28401  
 Phone 910-763-5100  
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DATE 01-26-16  
DESIGN PGT  
DRAWN EJW



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

### NPDES GROUND STABILIZATION CRITERIA

#### SPRING-SUMMER PERMANENT GRASSING DETAIL

SPECIES	RATE (lb./acre)
PERNICOLA BAHARRAS	50
STROPA LINDSOGA	10
COMMON BERBERIS GRASS	10
ORANGE BILLET	20
TALL FESCUE	50

#### FALL-WINTER PERMANENT GRASSING DETAIL

SPECIES	RATE (lb./acre)
TALL FESCUE (BEND OF TWO OR RYE (GRASS))	200
	25

#### LATE WINTER & EARLY SPRING TEMPORARY GRASSING DETAIL

SPECIES	RATE (lb./acre)
Annual lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains)	120
GERMAN MILLET	40

#### TEMPORARY SUMMER GRASSING DETAIL

SPECIES	RATE (lb./acre)
PERNICOLA BAHARRAS	50
STROPA LINDSOGA	10
COMMON BERBERIS GRASS	10
ORANGE BILLET	20
TALL FESCUE	50

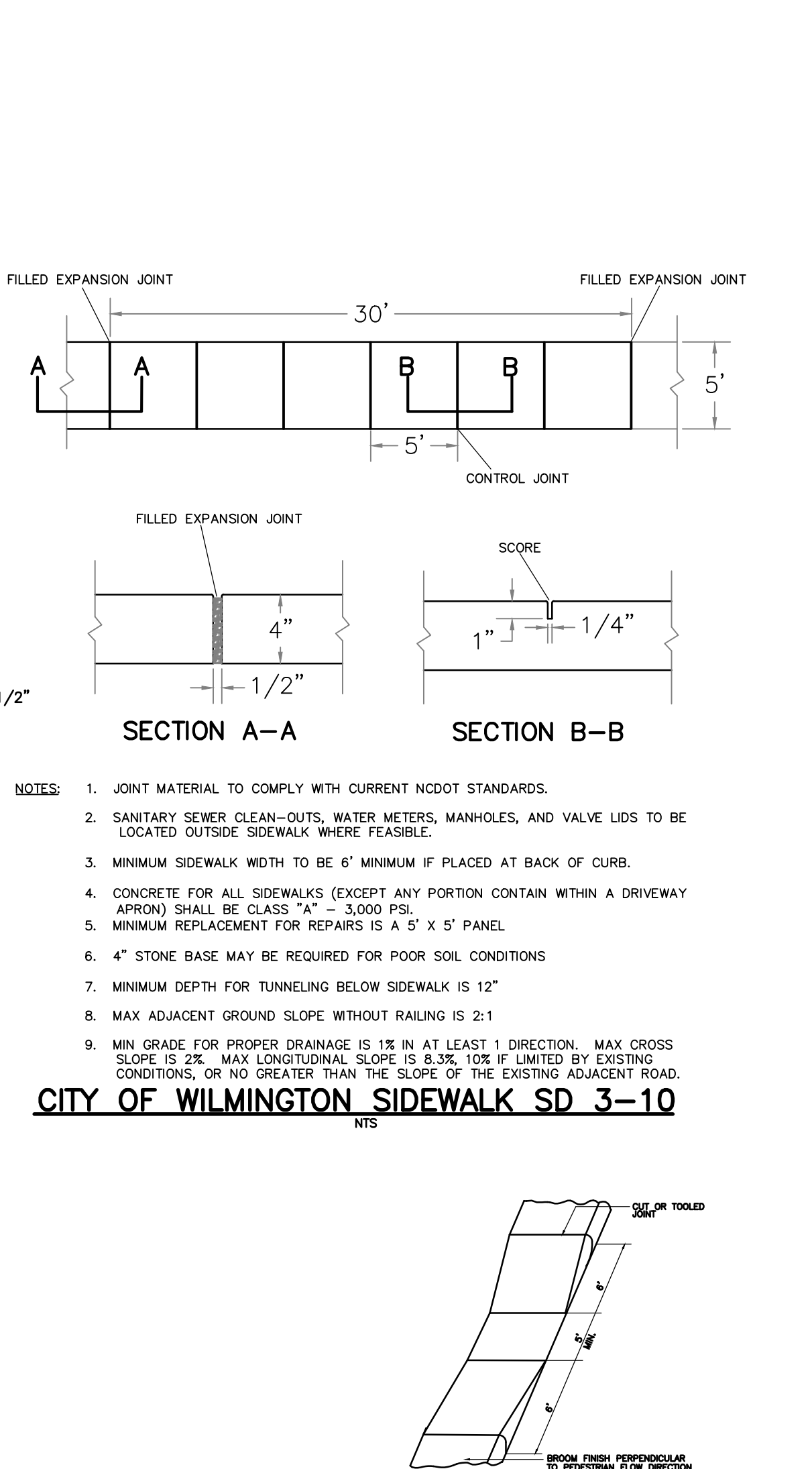
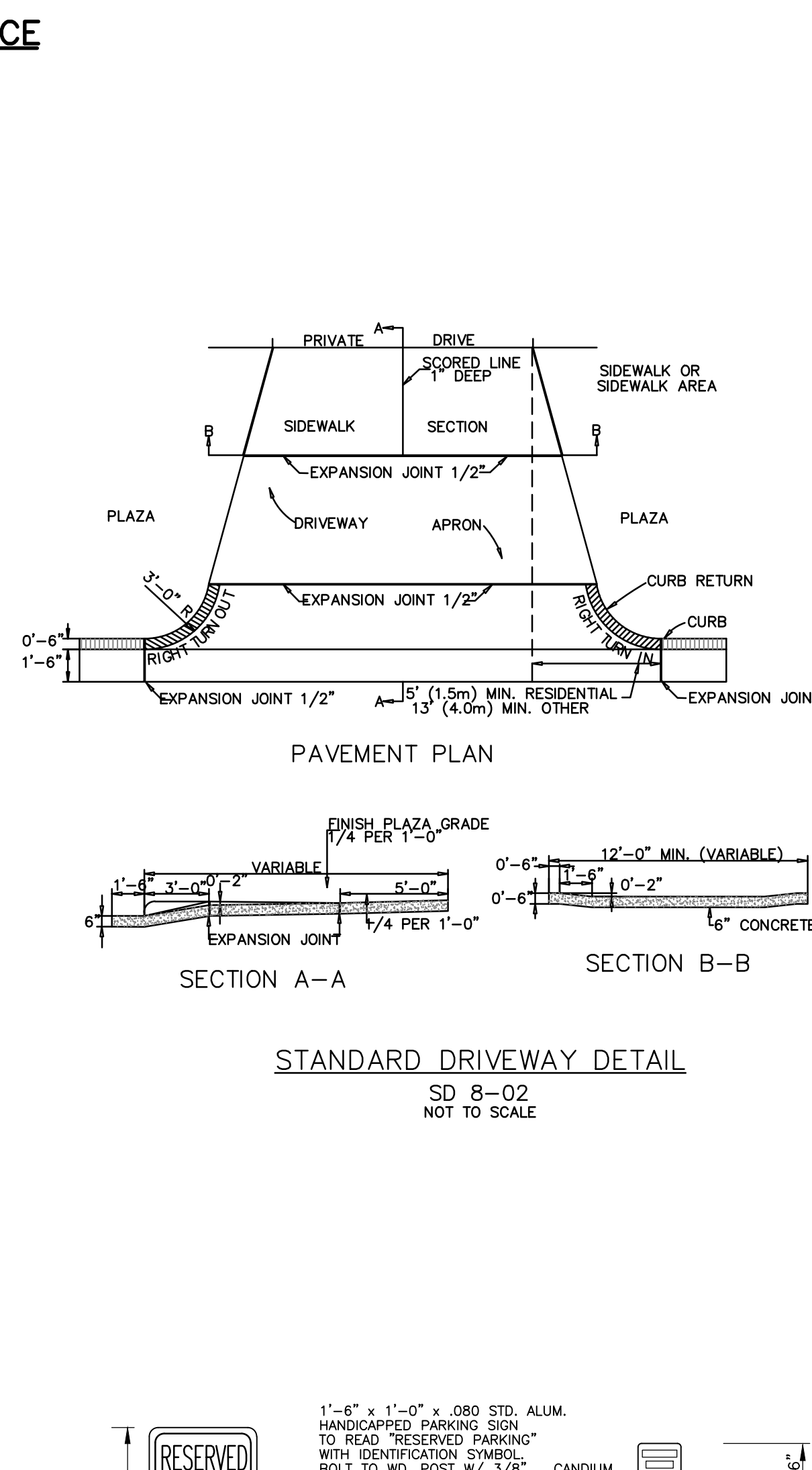
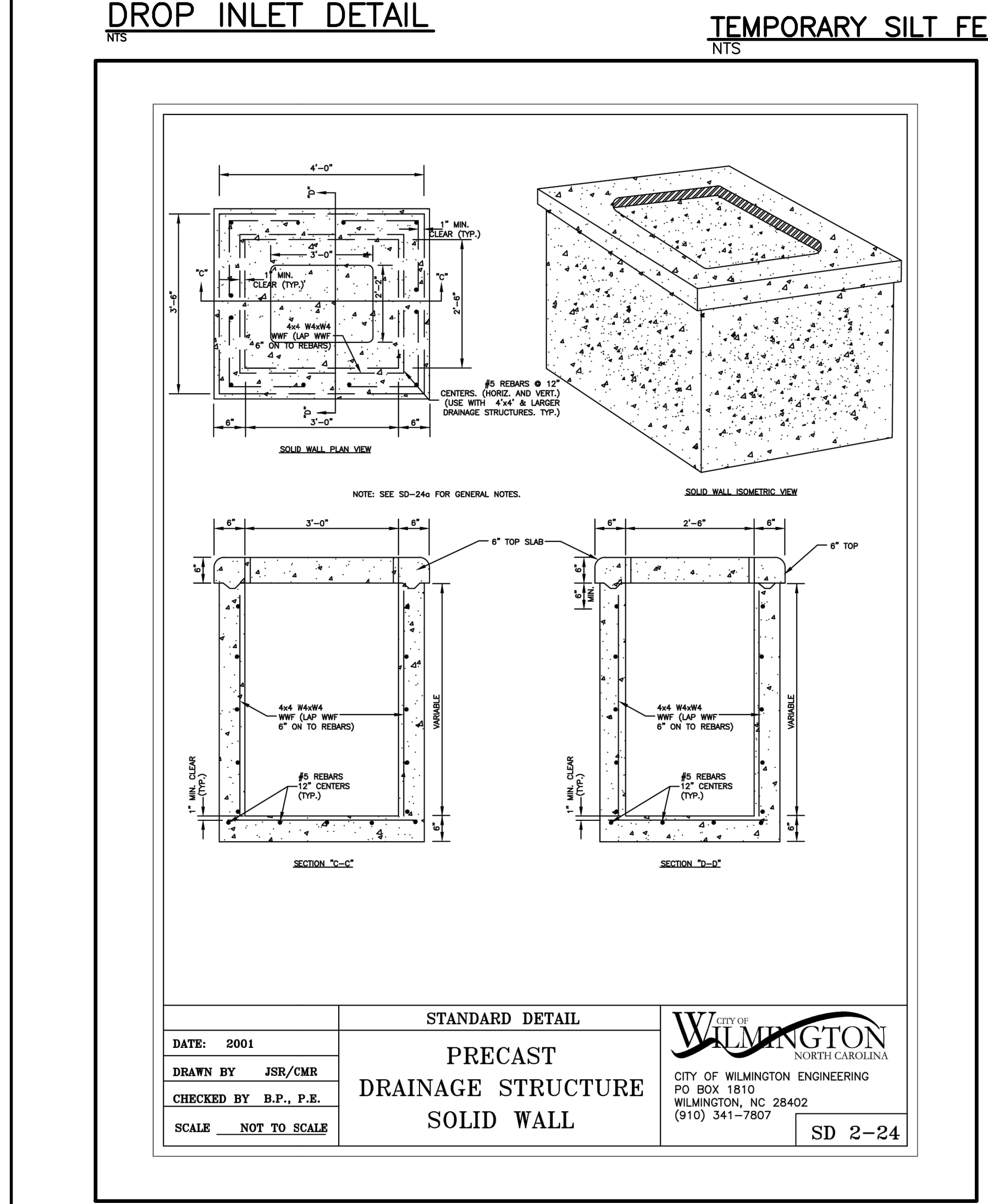
#### TEMPORARY FALL GRASSING DETAIL

SPECIES	RATE (lb./acre)
RYE (GRASS)	120

- ### SITE WORK NOTES
- THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS BOTH ON AND IMMEDIATELY ADJACENT TO THE SITE.
  - CLEARING: CONTRACTOR SHALL REMOVE ALL TREES AND VEGETATION WITHIN LIMITS OF CONSTRUCTION UNLESS OTHERWISE DESIGNATED TO REMAIN.
  - GRUBBING AND STRIPPING: CONTRACTOR SHALL RAKE AND REMOVE ROOTS, STUMPS, VEGETATION, DEBRIS, EXISTING STRUCTURES ABOVE AND BELOW GRADE, ORGANIC MATERIAL OR ANY OTHER UNSUITABLE MATERIAL WITHIN LIMITS OF CONSTRUCTION.
  - MUCKING: CONTRACTOR SHALL COORDINATE WITH OWNER AND THEIR GEOTECHNICAL REPRESENTATIVE TO COORDINATE REMOVAL OF ANY SOFT AREAS.
  - DISPOSAL: CLEANED, GRUBBED, STRIPPED OR OTHER WASTE MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A PROPERLY PERMITTED FACILITY.
  - FILL AND COMPACTOR SHOULD COMPLY WITH GEOTECHNICAL REPORT.
  - THE CONTRACTOR SHALL NOTE THAT THE GRADING PLAN MAY NOT REPRESENT A BALANCED EARTHWORK CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUT AND FILL QUANTITIES AND COMPLETE INSTALLATION TO SPECIFIED GRADES.
  - THE CONTRACTOR SHALL FURNISH SUITABLE BORROW MATERIAL FROM AN OFF-SITE PROPERLY PERMITTED FACILITY AS REQUIRED.
  - THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. BEFORE COMMENCING ANY EXCAVATIONS IN OR ALONG ROADWAYS OR RIGHT-OF-WAYS, PUBLIC AREAS OR IN PRIVATE EASEMENTS, THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE PERSONNEL OF THE LOCATION AND PROTECTION OF UTILITIES.
  - THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE DISCONNECTION/RECONNECTION AND/OR THE RELOCATION OF ALL EXISTING UTILITIES WITH APPROPRIATE PERSONNEL.
  - EXISTING SURVEYING PERFORMED BY PATRICK BRISTOW LAND SURVEYING, PC AND SUPPLIED BY THE OWNER.
  - THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AT THE SITE. FURTHERMORE THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES OR QUESTIONS TO THE ENGINEER PRIOR TO INSTALLATION.
  - THE CONTRACTOR SHALL PROVIDE ANY AND ALL LAYOUT REQUIRED TO CONSTRUCT HIS WORK UNLESS OTHERWISE DIRECTED BY OWNER.
  - ALL PVC UTILITY MAINS SHALL BE INSTALLED WITH A MINIMUM OF 36" COVER AT FINAL GRADE.
  - ALL SERVICE CONNECTIONS SHALL BE INSTALLED TO MEET ALL LOCAL AND STATE CODES. METERS, TAPS, MATERIALS, WORKMANSHIP AND ALL FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL COMPLY WITH ALL REQUIREMENTS.
  - ALL PAVEMENT, BASE AND SUBGRADE SHALL CONFORM TO NC DOT STANDARDS INCLUDING WORKMANSHIP, MATERIALS AND EQUIPMENT. APPROPRIATE BARRICADES, SIGNS, LIGHTS OR OTHER TRAFFIC CONTROL DEVICES SHALL BE PROVIDED IN ACCORDANCE WITH NC DOT TO MAINTAIN SAFETY AND TWO WAY TRAFFIC.
  - ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO INSTALLATION. ALL AREAS SHALL BE SLOPED TO DRAIN AWAY FROM BUILDINGS AT ALL TIMES.
  - CONCRETE STORM DRAINAGE PIPE SHALL BE CLASS III WITH RUBBER GASKETED JOINTS AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
  - USE WHITE LANE MARKING PAINT FOR ALL PAVEMENT MARKINGS. PAINT SHALL BE A CHLORINATED RUBBER ALKYL, FS IT-P-115, TYPE III, FACTORY MIXED, QUICK DRYING, NON BLEEDING, REFLECTIVE MATERIAL MAY BE ADDED AT OWNER'S OPTION FOR NIGHT REFLECTING.
  - DUCTILE IRON SHALL BE CLASS 50.
  - CONCRETE FOR WALKS, CURBS AND DRIVES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS - AIR ENTRAINED.
  - FIELD TESTING SHALL BE DONE BY AN INDEPENDENT TESTING LABORATORY PAID FOR BY THE OWNER. FURTHER TESTING REQUIRED DUE TO A FAILED TEST WILL BE PAID FOR BY THE CONTRACTOR.
  - SEE GEOTECHNICAL REPORT NO. \_\_\_\_\_ DATED \_\_\_\_\_ BY \_\_\_\_\_ FOR ADDITIONAL REQUIREMENTS.

### REVISIONS

No./Date	Description	By



#### SOIL AMENDMENTS

APPLY 4000 lb/acre GRAIN STRAW OR EQUIVALENT COVER OF ANOTHER SUITABLE MULCH AND/OR STRAW BY TACKING WITH ASPHALT, NETTING, OR BY OTHER MEANS TO PREVENT WIND LOSS. USE THE LOWER RATE ON SANDY SOILS AND 1,000 lb/acre 10-10-10 FERTILIZER.

#### MULCH

APPLY 4000 lb/acre GRAIN STRAW OR EQUIVALENT COVER OF ANOTHER SUITABLE MULCH AND/OR STRAW BY TACKING WITH ASPHALT, NETTING, OR BY OTHER MEANS TO PREVENT WIND LOSS. USE THE LOWER RATE ON SANDY SOILS AND 1,000 lb/acre 10-10-10 FERTILIZER.

#### MAINTENANCE

REFERTILIZE THE FOLLOWING APRIL WITH 50 lb/acre NITROGEN. REPEAT AS GROWTH REQUIRES. MAY BE MOVED ONLY ONCE A YEAR. WHERE A HEAVY APPEARANCE IS DESIRED, USE 100 LB/acre AND MORE AS OFTEN AS NEEDED.

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#### MAINTENANCE

REFERTILIZE 1/3 growth is not fully adequate. Reseed, reseed and mulch immediately following erosion or other damage.

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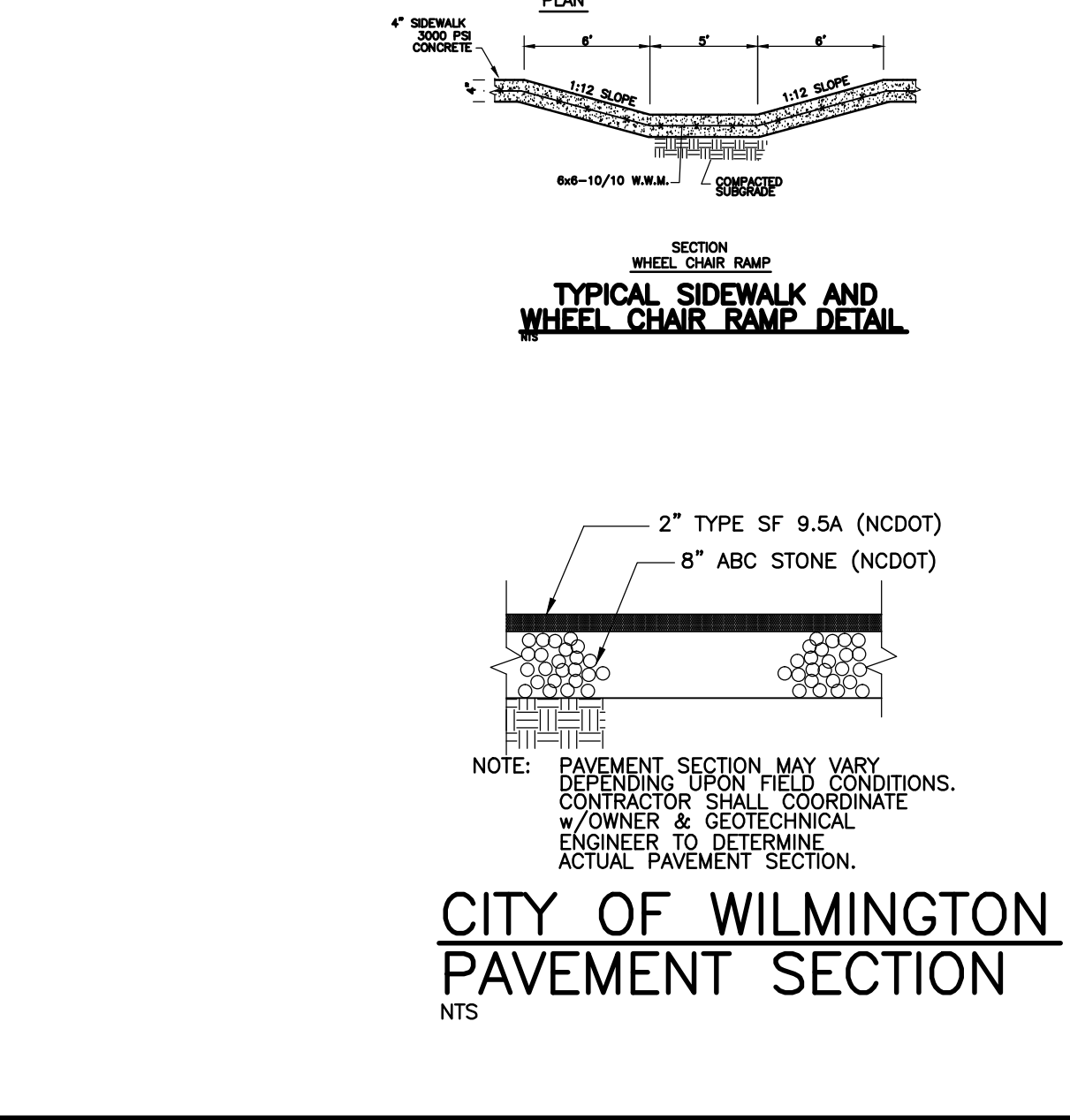
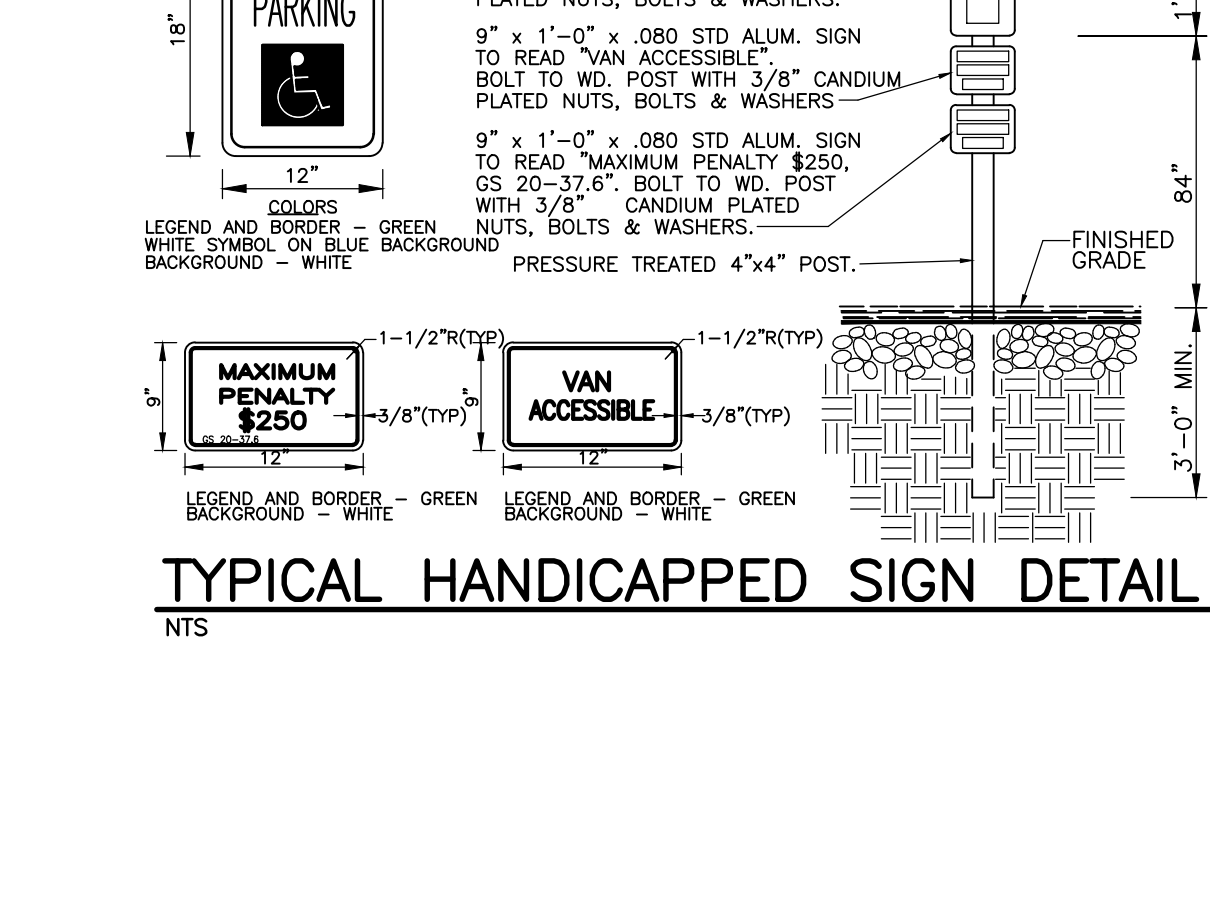
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#### MAINTENANCE

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



### APPROVED CONSTRUCTION PLAN

Name	Date
Planning _____	_____
Traffic _____	_____
Fire _____	_____

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

### STORMWATER MANAGEMENT PLAN

APPROVED

CITY OF WILMINGTON  
ENGINEERING DEPARTMENT

DATE \_\_\_\_\_ PERMIT # \_\_\_\_\_

SIGNED \_\_\_\_\_

DETAILS AND NOTES

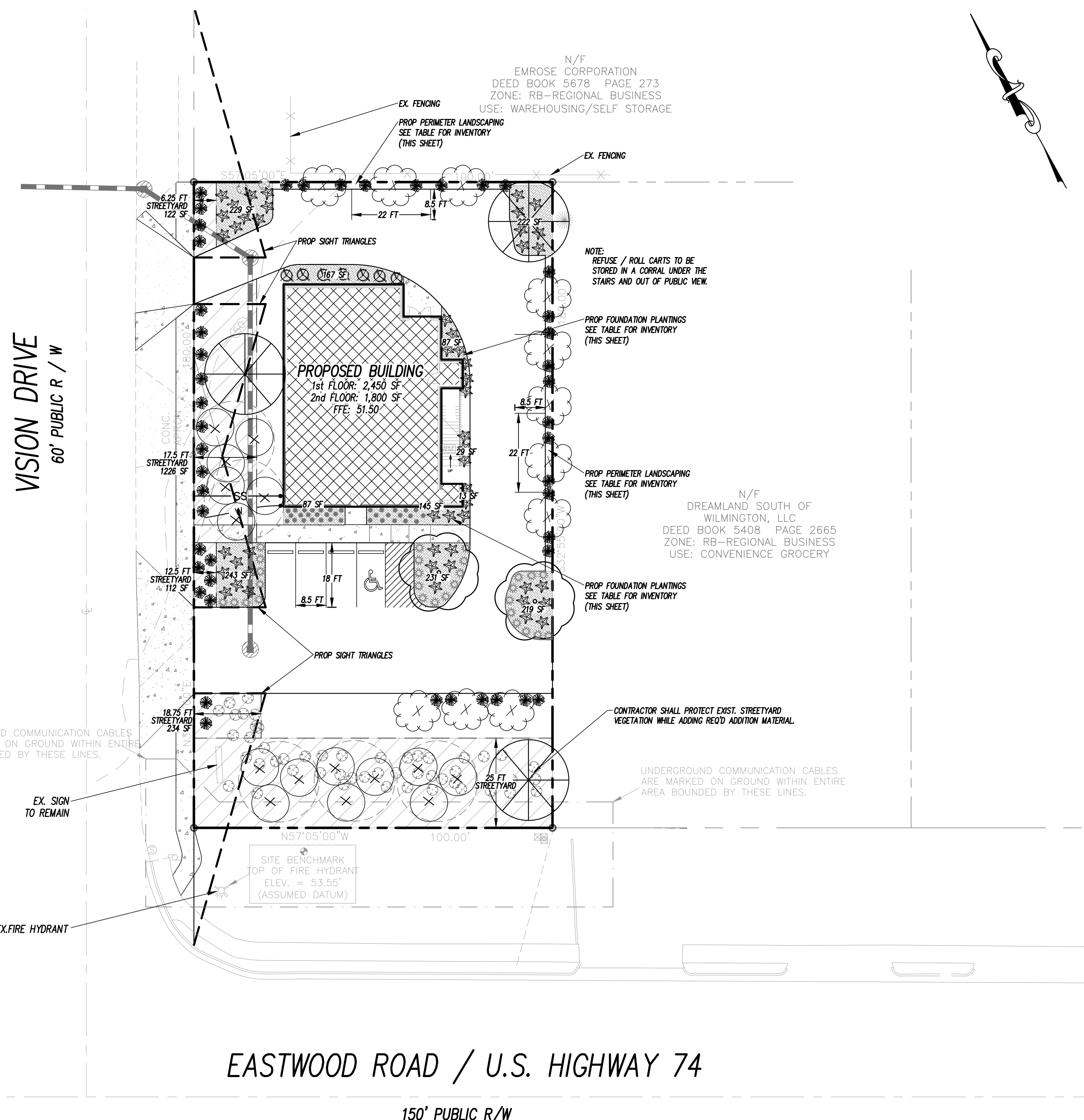
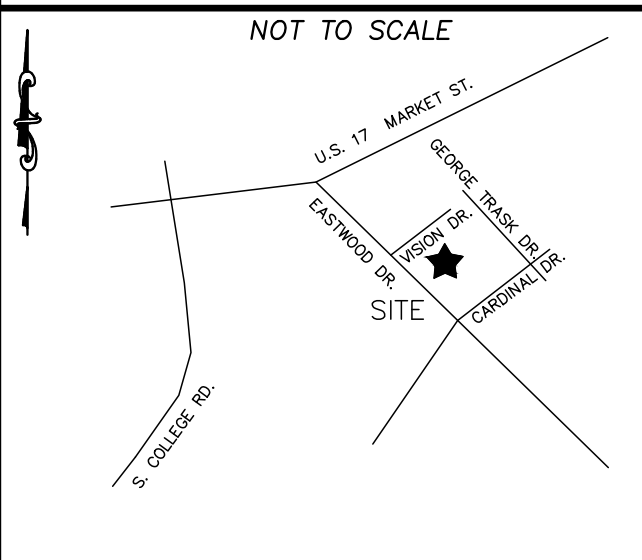
TRIPP ENGINEERING, P.C.  
419 Chestnut Street  
Wilmington, North Carolina 28401  
Phone 910-763-6100  
Fax 910-763-6631

VISION DR. RETAIL  
WILMINGTON, NORTH CAROLINA

DATE 01-26-16  
DESIGN PGT  
DRAWN EJW

C3  
SHEET 3 OF 3  
15016

**LOCATION MAP**



N/F  
EMROSE CORPORATION ETAL  
ZONE: EMROSE CORPORATION ETAL  
USE: WAREHOUSING/SELF STORAGE

N/F  
EMROSE CORPORATION  
DEED BOOK 5678 PAGE 273  
ZONE: RB-REGIONAL BUSINESS  
USE: WAREHOUSING/SELF STORAGE

N/F  
DREAMLAND SOUTH OF  
WILMINGTON, LLC  
DEED BOOK 5408 PAGE 2665  
ZONE: RB-REGIONAL BUSINESS  
USE: CONVENIENCE GROCERY

UNDERGROUND COMMUNICATION CABLES  
ARE MARKED ON GROUND WITHIN ENTIRE  
AREA BOUNDED BY THESE LINES.

UNDERGROUND COMMUNICATION CABLES  
ARE MARKED ON GROUND WITHIN ENTIRE  
AREA BOUNDED BY THESE LINES.

EASTWOOD ROAD / U.S. HIGHWAY 74  
150' PUBLIC R/W

**Proposed Plant Table**

PARKING - INTERIOR ISLANDS

Quantity	Symbol	Scientific Name	Common Name	Planting Size	Planting Remarks
36	☼	<i>Ilex crenata</i>	JAPANESE HOLLY	36" MIN.	8' O.C.
1	☼	<i>Crecis canadensis</i>	RED BUD	6-8'	
2	☼	<i>Acer palmatum</i>	JAPANESE MAPLE	6-8'	
19	☼	<i>Spartina bakerii</i>	SAND CORNCRASS	-	1 GAL.

PARKING - PERIMETER

Quantity	Symbol	Scientific Name	Common Name	Planting Size	Planting Remarks
11	☼	<i>Prunus serrulata</i>	KWANZAN CHERRY	6-8'	
25	☼	<i>Ilex vomitoria</i>	DWARF YAUPON HOLLY	15-18" MIN.	4' O.C.

FOUNDATION PLANTINGS

Quantity	Symbol	Scientific Name	Common Name	Planting Size	Planting Remarks
15	☼	<i>Ilex crenata</i>	JAPANESE HOLLY	36" MIN.	8' O.C.
7	☼	<i>Abelia grandifolia</i>	GLOSSY ABELIA	15-18" MIN.	4' O.C.
35	☼	<i>Schizachyium scoparium</i>	BLUE SWITCH GRASS	-	1 GAL.

STREETYARD

Quantity	Symbol	Scientific Name	Common Name	Planting Size	Planting Remarks
2	☼	<i>Crecis canadensis</i>	RED BUD	6-8'	
5	☼	<i>Betula nigra</i>	RIVER BIRCH	6-8'	
22	☼	<i>Ilex vomitoria</i>	DWARF YAUPON HOLLY	15-18" MIN.	4' O.C.
50	☼		MISC EXISTING SHRUBS	ESTABLISHED	TO REMAIN

GRASSES / SOO

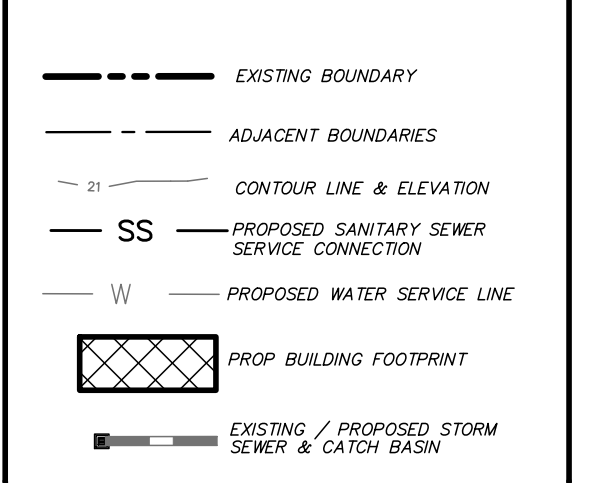
Quantity	Symbol	Scientific Name	Common Name	Planting Size	Planting Remarks
N/A					MISC. AREAS

O.C. = "ON CENTER" GAL. = "CALIPER AT 6" ABOVE GRADE" GAL. = "GALLON CONTAINER"

**LANDSCAPE CALCULATIONS:**

- PARKING - INTERIOR AREA LANDSCAPING (SEC. 18-48):**  
1 CANOPY TREE AND SHRUBS + 1 INTERIOR PARKING ISLANDS  
1 CANOPY TREES AND SHRUBS REQ'D;  
CANOPY TREES / SHADE TREES PLACED THROUGHOUT PARKING AREA TO AVOID CONFLICT WITH DESIGNED UTILITIES AND SIGHT TRIANGLES.  
SHADING CALCULATION - 20% SHADING REQ'D FOR PARKING AREAS:  
6,826 PARKING AREA X 20% = 6,826 X .2 = 1,364 SF REQ'D CANOPY  
- SELECTED TREES HAVE ESTIMATED 20-25 FT DIA. CANOPY AT MATURITY; ±490 SF CANOPY  
1,372 / 490 = 2.8 OR 3 CANOPY TREES REQ'D; 3 CANOPY TREES PROVIDED.
- PARKING - PERIMETER LANDSCAPING (SEC. 18-49):**  
1 TREE EVERY 18 TO 27'; 280 LF = 10 TO 15 TREES  
10 TO 15 TREES REQ'D; 11 TREES PROVIDED.
- FOUNDATION PLANTINGS - (SEC. 18-49):**  
BUILDING FACE (FRONT) SF: 1,250 SF X 12% = 150 SF PLANTING AREA REQ'D  
233 SF PLANTING AREA PROVIDED  
BUILDING FACE (SIDE) SF: 1,550 SF X 12% = 186 SF PLANTING AREA REQ'D  
328 SF PLANTING AREA PROVIDED  
BUILDING FACE (REAR) SF: 838 SF X 12% = 101 SF PLANTING AREA REQ'D  
187 SF PLANTING AREA PROVIDED
- BUFFER YARDS - (SEC. 18-49):**  
ADJOINING PROPERTIES SHARE RB - REGIONAL BUSINESS ZONING.  
NO BUFFER YARD PROVIDED.
- DUMPSTER SCREENING - (SEC. 18-50A)**  
NO DUMPSTER CORRAL OR OUTDOOR STORAGE PROPOSED.  
CURBSIDE HAND-TOTE SERVICE TO BE UTILIZED FOR THIS PROJECT.
- STREET YARD (PRIMARY) - EASTWOOD ROAD (SEC. 18-47):**  
100 FT FRONTAGE X 25 = 2,500 SF STREETYARD  
1 SHADE TREE & 6 SHRUBS / 600 SF OF STREET YARD REQ'D  
2,500 SF / 600 = 4.167  
1 X 4.167 = 4 SHADE TREES REQ'D; 4 SHADE TREES PROVIDED  
6 X 4.167 = 25 SHRUBS REQ'D; EXISTING SHRUBS TO BE RETAINED TO MEET REQUIREMENTS.  
**STREET YARD (SECONDARY) - VISION DRIVE (SEC. 18-47):**  
180 FT FRONTAGE - 30 DRIVEWAYS = 130 FT FRONTAGE  
130 FT X 12.5 = 1,625 SF REQ'D STREETYARD; 1,625 SF PROVIDED  
1 SHADE TREE & 6 SHRUBS / 600 SF OF STREET YARD REQ'D  
1,625 SF / 600 = 2.7  
1 X 2.7 = 3 SHADE TREES REQ'D; 3 SHADE TREES PROVIDED (SIGHT TRIANGLES IN CONFLICT)  
6 X 2.7 = 16 SHRUBS REQ'D; 22 SHRUBS PROVIDED ALONG W/ RETAINING EXISTING SHRUBS.
- TREES & SHRUBS IN LANDSCAPED AREAS SHALL BE MAINTAINED BY THE OWNER TO ENSURE THAT THE MATERIAL LIVES & PROSPERS.**
- NO REGULATED OR SIGNIFICANT TREES LOCATED ONSITE.**

**LEGEND**



Approved Construction Plan

Name \_\_\_\_\_ Date \_\_\_\_\_

Planning \_\_\_\_\_

Traffic \_\_\_\_\_

Fire \_\_\_\_\_

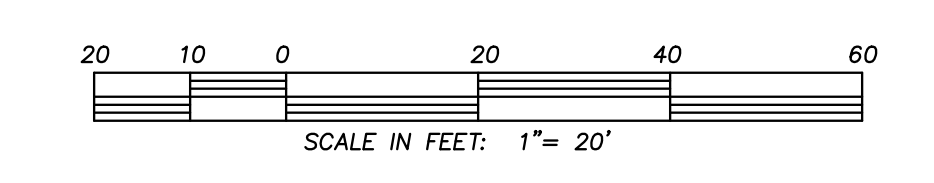
STORMWATER MANAGEMENT PLAN APPROVED

CITY OF WILMINGTON  
ENGINEERING DEPARTMENT

DATE \_\_\_\_\_ PERMIT # \_\_\_\_\_

SIGNED \_\_\_\_\_

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LANDSCAPE PLAN for  
VISION DR. RETAIL

LANDSCAPE PLAN for  
VISION DR. RETAIL  
LOCATED IN THE CITY OF WILMINGTON  
NEW HANOVER COUNTY, NORTH CAROLINA  
OWNER: 6943 MARKET, LLC  
2900 MIDDLE SOUND LOOP RD  
WILMINGTON, NC 28411

PRELIMINARY

REV. NO.	DATE	BY	REMARKS
2	01/26/16	JSM	REVISION PER COMMENTS FROM THE CITY OF WILMINGTON & SITE DESIGN CHANGES.
1	01/26/16	JSM	REVISION PER COMMENTS FROM THE CITY OF WILMINGTON

DATE: 12-15-15  
HORZ. SCALE: 1" = 20'  
VERT. SCALE: N/A  
DRAWN BY: JSM  
CHECKED BY: HSR  
PROJECT NO.: 15-0351

Sheet No. **LP1** of **LP1**