

City of Raleigh Development Services Department One Exchange Plaza Raleigh, NC 27602 (919) 996-2492 currentplanning@raleighnc.gov www.raleighnc.gov

Case File / Name: ASR-0097-2022
<b>DLSC - CANVAS AT PACK PLACE APARTMENTS</b>

LOCATION: This 1.69 acre site consists of two parcels and is identified as 6019 and 6101 Hillsborough Street. This site is located north of Buck Jones Road, south of Chapel Hill Road (Highway 54), east of Singleton Street, and west of Wolf Wood Drive. It is adjacent to 403 West Apartments and near Nowell Road. The parcels are zoned NX-5-GR-CU and are located within a Frequent Transit Area. The site is outside the city limits. **REQUEST:** This project proposes a 5-story apartment building with 56 units, including 33 1-bedroom units and 23 2-bedroom units. There are two existing residences and accessory structures on the two parcels which will be demolished. The site will be developed with 1 building and associated parking, infrastructure, amenity areas, and bicycle parking. The total proposed building area is 78,125 square feet. The plan is not utilizing the Frequent Transit Development Option. DESIGN ADJUSTMENT(S)/ ALTERNATES, ETC: N/A FINDINGS: City Administration finds that this request, with the below conditions of approval being met, conforms to the Unified Development Ordinance. This

# **CONDITIONS OF APPROVAL and NEXT STEPS:**

approval is based on a preliminary plan dated April 9, 2024 by JD

This document must be applied to the second sheet of all future submittals except for final plats. This is a preliminary plan and as such no permits have been issued with this approval. To obtain permits and/or completion of the project, the following steps are required:

☑ <u>SITE PERMITTING REVIEW</u> - For land disturbance of 12,000 square feet or greater, public or private infrastructure, shared stormwater devices, etc. Site Permitting Review may be submitted upon receipt of this signed approval document.

## The following items are required prior to approval of Site Permitting Review plans:

SIGNATURE HOMES.

## General

- 1. The public improvements need further review at time of site permitting review so to include detailed commenting on the streetscape type and NCDOT review of the site and in addition further evaluation of slope easement needs on site also.
- 2. The site plan for the parking lot needs to be revised to conform to parking lot landscape requirements of UDO Section 7.1.7 D requiring a minimum of 300 square feet of area for interior parking lot landscape islands. Please revise the parking lot layout to conform to that code standard

## Engineering

3. Required NCDOT encroachment and/or driveway permits must be approved and copies provided to the City of Raleigh Transportation Department – Mobility Strategy and Infrastructure Division prior to Site Permit review approval.



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4. A Traffic Control and Pedestrian (TCPED) Plan must be approved and a right-of-way occupancy permit must be obtained from Right-of-way Services for any construction activities within the right-of-way.

## Stormwater

- 5. A surety equal to of the cost of clearing, grubbing and reseeding a site, shall be paid to the City (UDO 9.4.4).
- 6. A stormwater control plan with a stormwater operations and maintenance manual and budget shall be approved (UDO 9.2).

☑ <u>LEGAL DOCUMENTS</u> - Email to legaldocumentreview@raleighnc.gov. Legal documents must be approved, executed, and recorded prior to or in conjunction with the recorded plat on which the associated easements are shown. Copies of recorded documents must be returned to the City within one business day of recording to avoid withholding of further permit issuance.

	Cross Access Agreements Required	
Ø	Slope Easement Deed of Easement Required	

Ø	Right of Way Deed of Easement Required
	Required

☑ <u>**RECORDED MAP(S)**</u> - Submit plat to record new property lines, easements, tree conservation areas, etc.). Plats may be submitted for review when the Site Permitting Review plans, if required, have been deemed ready for mylar signature.

## The following items must be approved prior to recording the plat:

#### Engineering

- 1. A cross access agreement among the lots that are adjacent to the east and west shall be approved by the Development Services Department for recording in the Wake County Registry, and a copy of the recorded offer of cross access easement shall be returned to the Development Services Department within one day of plat recordation. If a recorded copy of the document is not provided within this time, further recordings and building permit issuance will be withheld.
- 2. A slope easement deed of easement, in addition to a plat showing the location of the easement, shall be submitted to the Planning and Development Services Department for review, and if acceptable, approved for recordation. Approved plats must be recorded at the Wake County Register of Deeds Office on or before the 14th day following approval by the City. The 14-day expiration date shall be clearly indicated on the plat. By the end of the next business day following recordation of the plat, all required legal instruments (including deeds of easement) shall be recorded, and recorded copies of the plat and all legal instruments required by the City in association with development approval shall be provided to the City. (Reference: UDO 8.1.7.A; 10.2.5.F.4.d)
- 3. A sight distance easement shall be approved by the Transportation Department for recording in the Wake County Registry and shown on a plat approved for recordation.



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4. A public street right-of-way deed of easement, in addition to a plat showing the location of the easement, shall be submitted to the Planning and Development Services Department for review, and if acceptable, approved for recordation. Approved plats must be recorded at the Wake County Register of Deeds Office on or before the 14th day following approval by the City. The 14-day expiration date shall be clearly indicated on the plat. By the end of the next business day following recordation of the plat, all required legal instruments (including deeds of easement) shall be recorded, and recorded copies of the plat and all legal instruments required by the City in association with development approval shall be provided to the City. (Reference: UDO 8.1.7.A; 10.2.5.F.4.d)

#### **Public Utilities**

- 5. Site Permit Review plans (SPR) must be approved by the City of Raleigh Public Utilities Department for all public water, public sewer and/or private sewer extensions.
- 6. A Petition for Annexation into the City limits shall be submitted in accordance with City Council policy for extension of utility service to properties currently outside of the City limits. This voluntary annexation in no way obligates the City to extend utility services to the property.

☑ <u>BUILDING PERMITS</u> - For buildings and structures shown on the approved plans. Commercial building permit plans must include the signed, approved Site Permitting Review plans attached, if applicable. Permit sets may be reviewed prior to the recordation of required plats, but cannot be approved.

#### The following items must be approved prior to the issuance of building permits:

#### General

- 1. A recombination map shall be recorded, recombining the existing lots into a single tract.
- 2. A demolition permit shall be obtained.

#### Engineering

3. A public infrastructure surety shall be provided to City of Raleigh Transportation – Development Engineering Division (UDO 8.1.3) in the amount of 100% of the improvement cost for the NCDOT portion and 125% of the improvement cost for the City of Raleigh infrastructure.

#### **Public Utilities**

4. A plat must be recorded at the Wake County Register of Deeds office for all utility easement dedications.

#### Stormwater

5. A surety equal to 125% of the cost of the construction of a stormwater device shall be paid to the Engineering Services Department (UDO 9.2.2.D.1.d).

## **Urban Forestry**



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- 6. A tree impact permit must be obtained for the approved streetscape tree installation in the right-of-way. This development proposes (10) trees along Hillsborough St.
- A public infrastructure surety for (10) street trees along Hillsborough St. shall be provided to City of Raleigh Transportation – Development Engineering Division (UDO 8.1.3) in the amount of 100% of the improvement cost for the NCDOT portion and 125% of the improvement cost for the City of Raleigh infrastructure.

## The following are required prior to issuance of building occupancy permit:

#### General

- 1. Final inspection of right-of-way street trees by Urban Forestry Staff.
- 2. All street lights and street signs required as part of the development approval are installed.
- 3. Required public right-of-way infrastructure improvements shall be, at a minimum, sufficiently completed to provide the necessary, safe emergency and vehicular access.

#### Stormwater

- 4. As-built drawings and associated forms for all Stormwater devices are accepted by the Engineering Services Department (UDO 9.2.2.D.3).
- EXPIRATION DATES: The expiration provisions of UDO Section 10.2.8 E, including the ability to request extensions in the expiration date, apply to this site plan. If significant construction has not taken place on a project after administrative site review approval, that approval may expire and be declared void, requiring re-approval before permits may be issued. To avoid allowing this plan approval to expire the following must take place by the following dates:

#### 3-Year Expiration Date: June 10, 2027

Obtain a valid building permit for the total area of the project, or a phase of the project.

#### 4-Year Completion Date:

Within four years after issuance of the first building permit for the site plan, the construction of the entire site plan must be completed unless an applicant has been granted vested rights. Failure to complete construction within this specified time frame shall automatically void the approved site plan for which no building permits have been issued.



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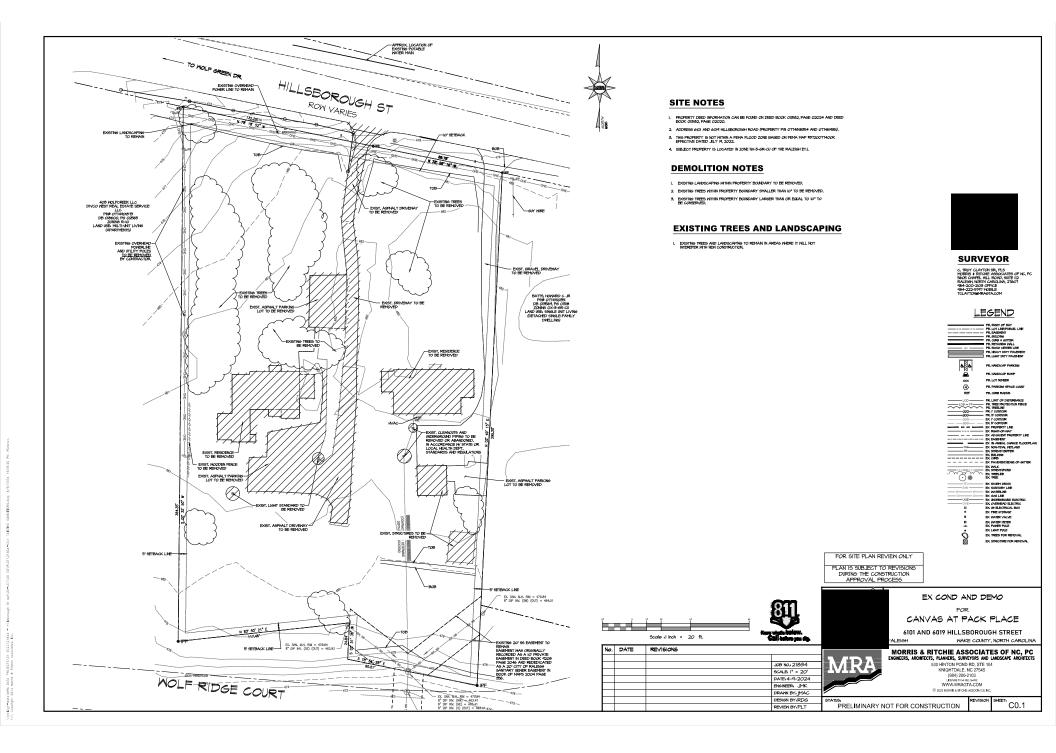
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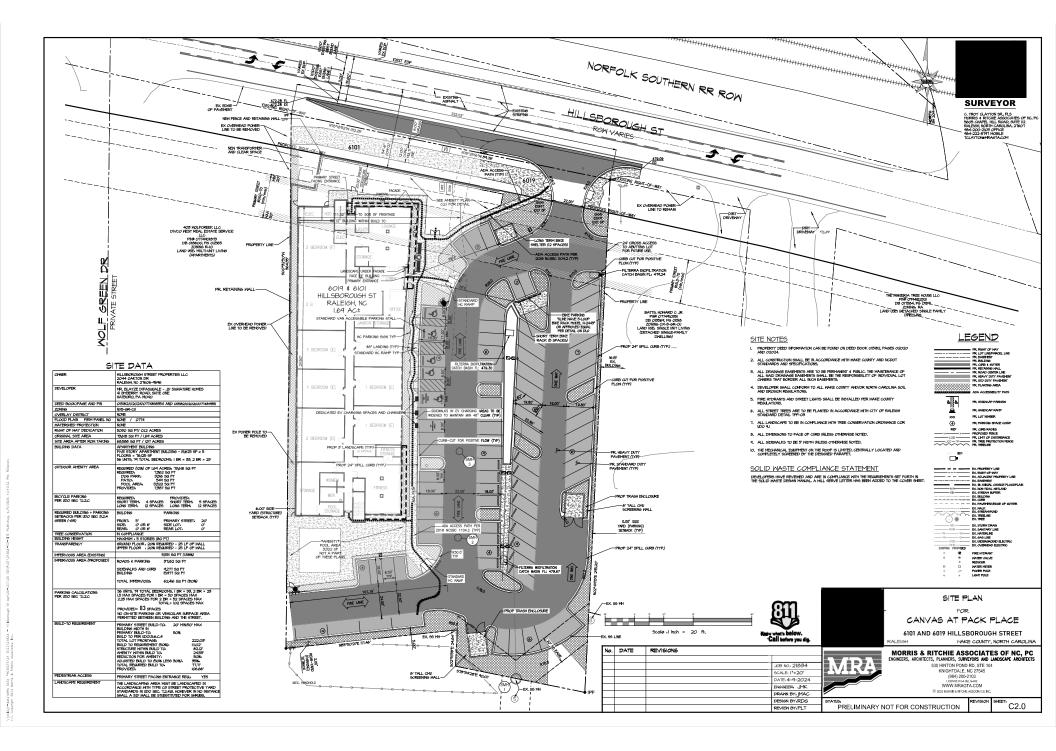
Signed: \_

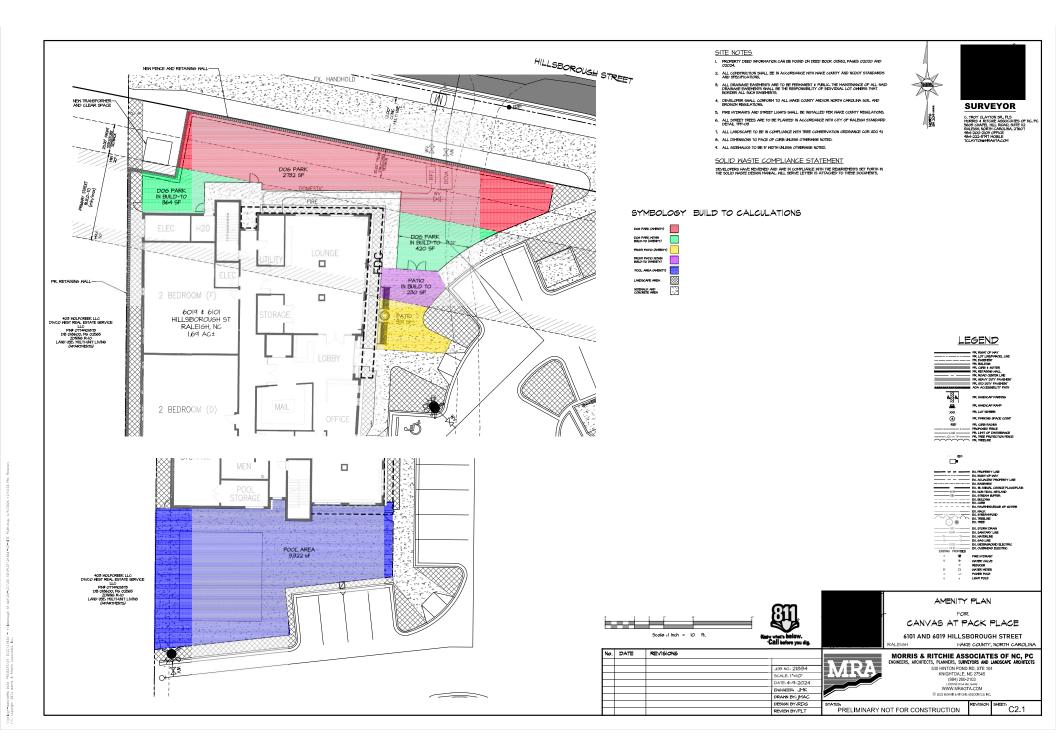
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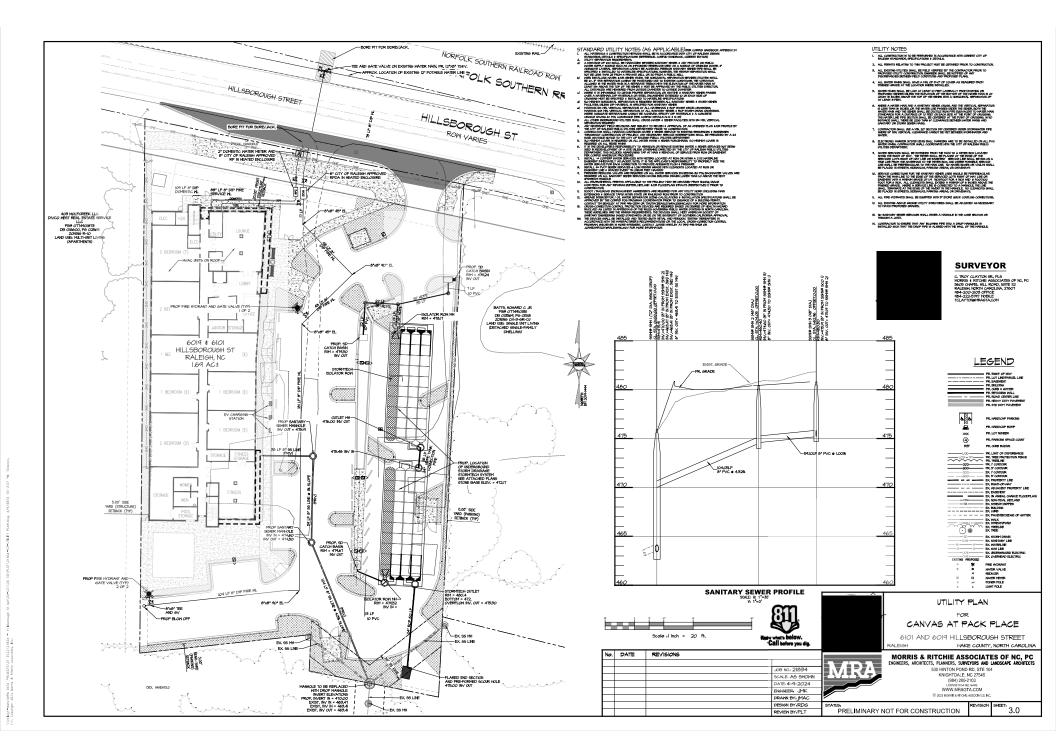
Development Ser/ices Dir/Designee Staff Coordinator: Jessica Gladwin

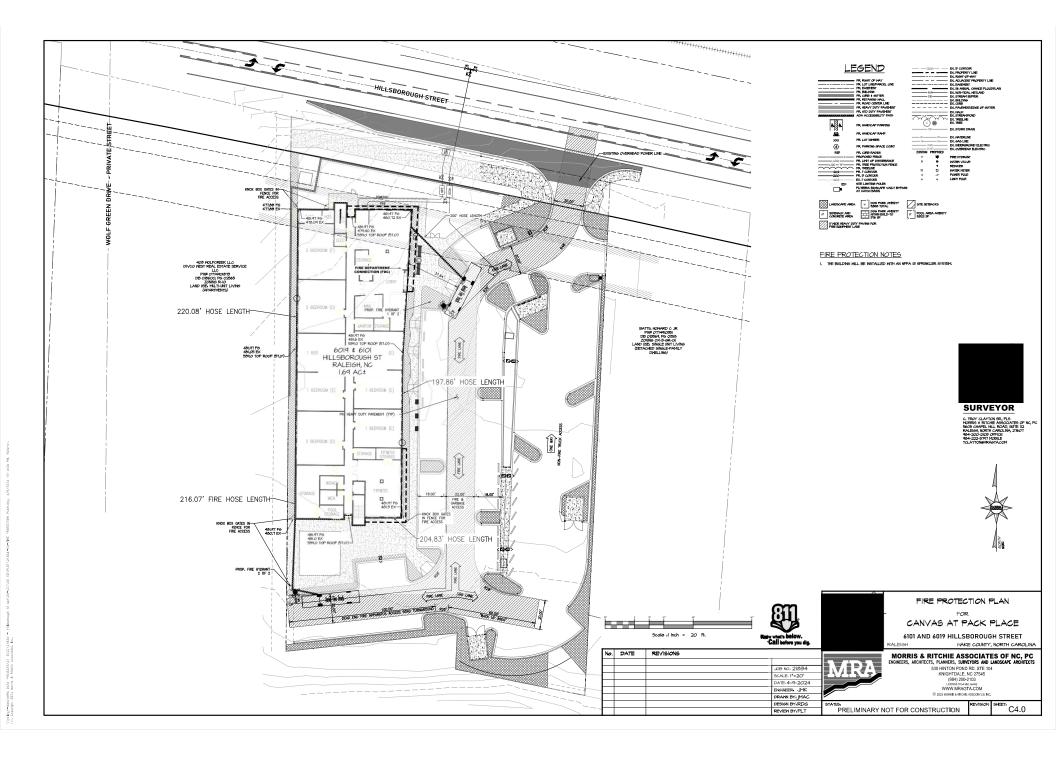
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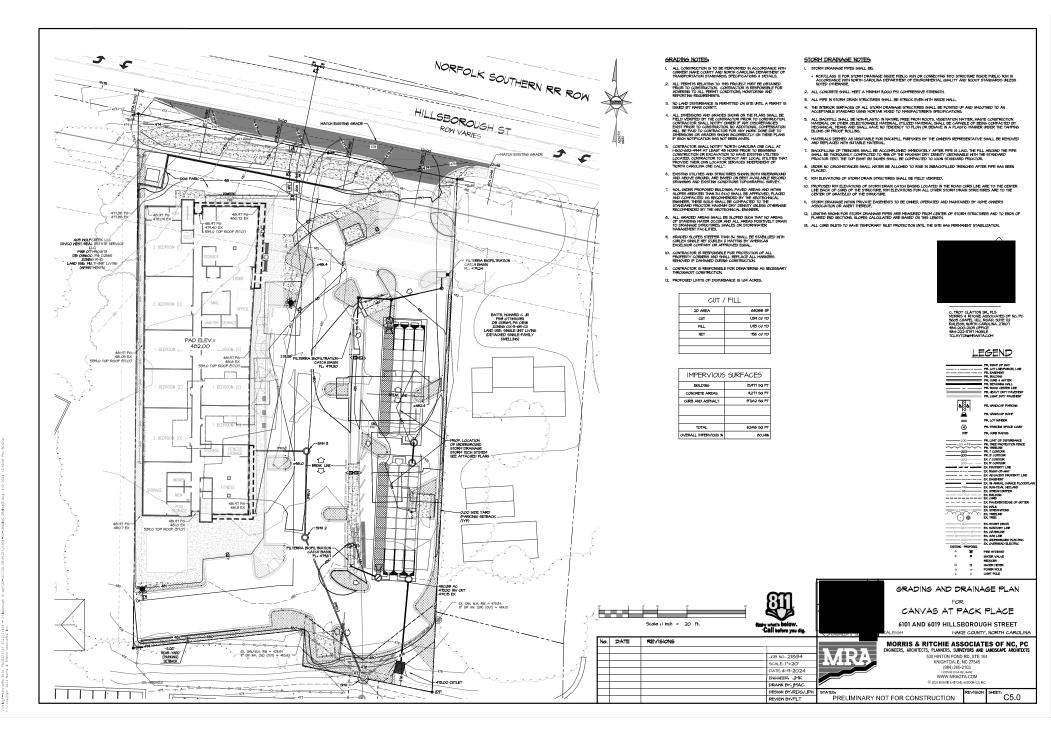




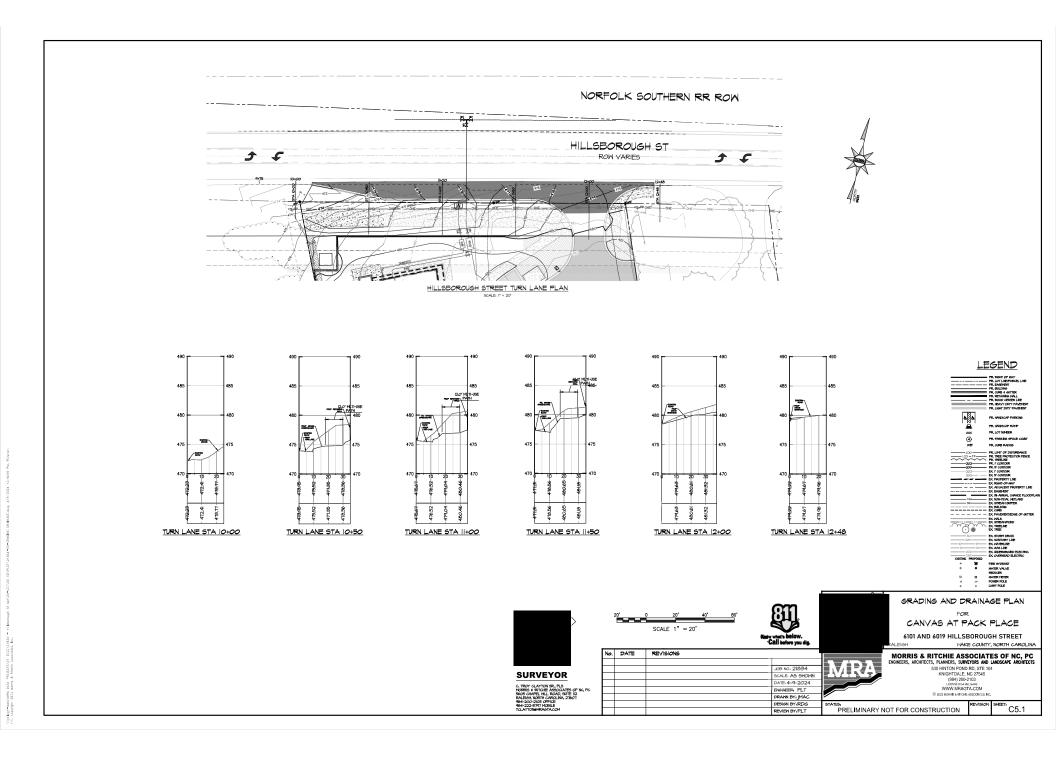


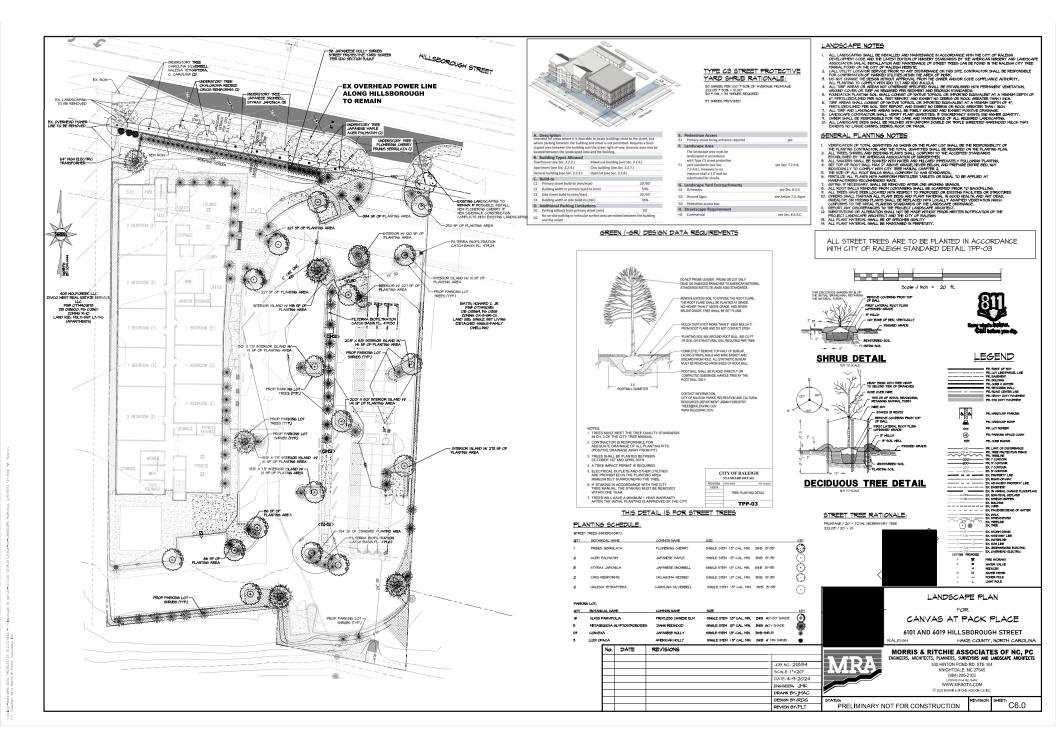


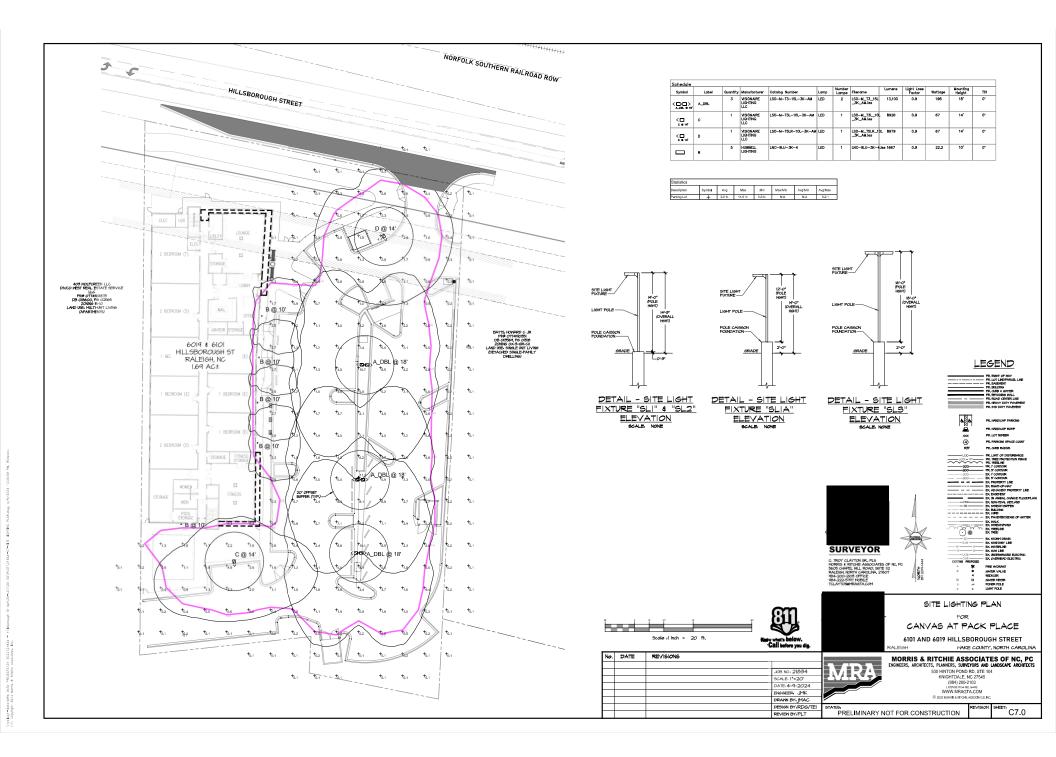


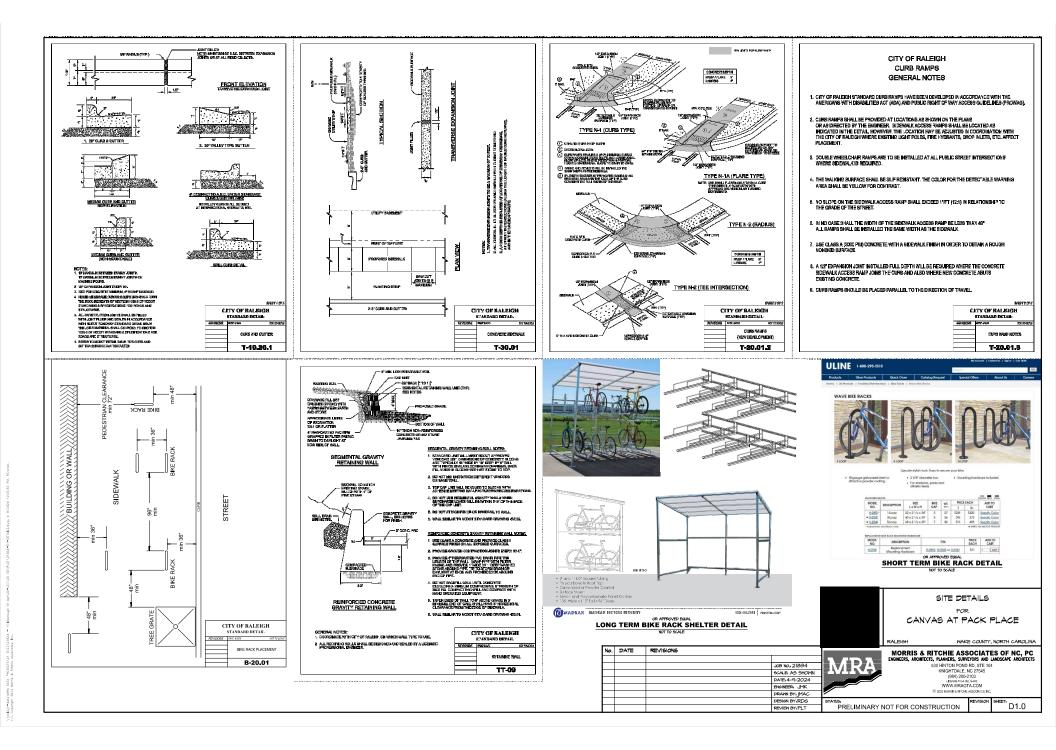


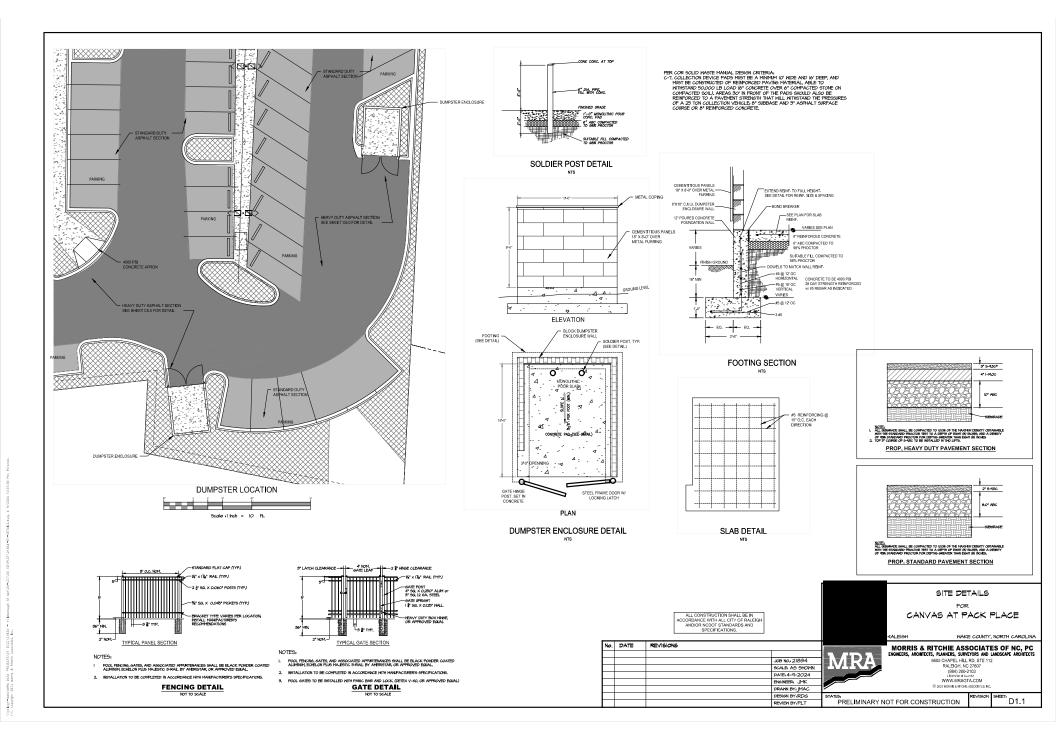
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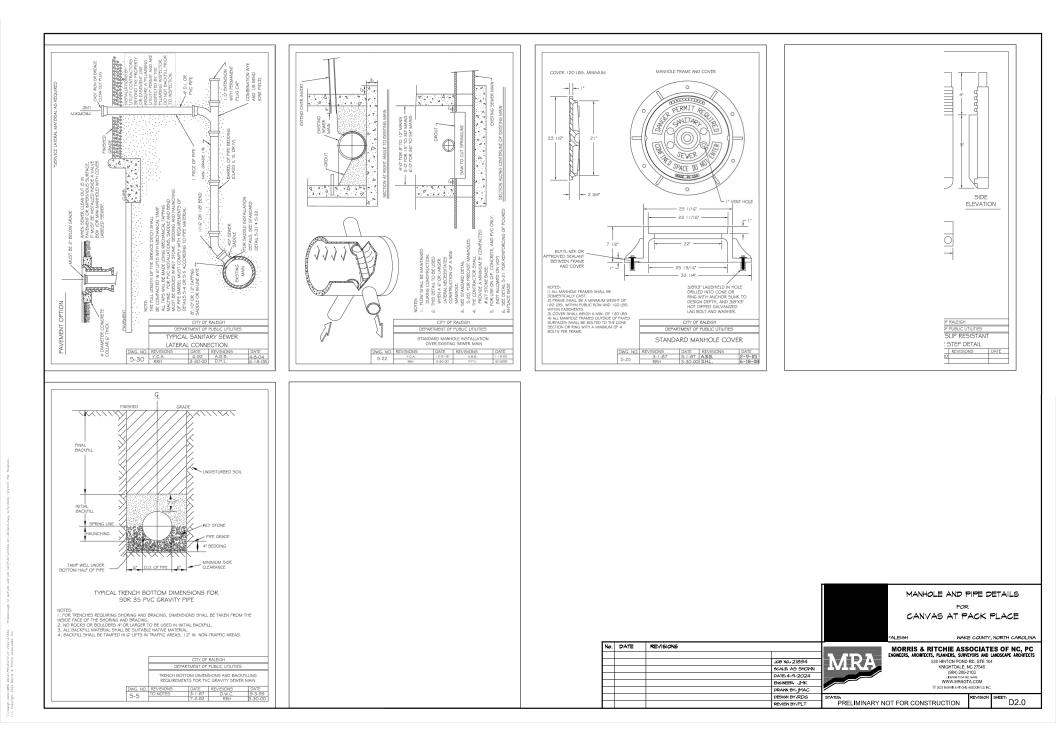


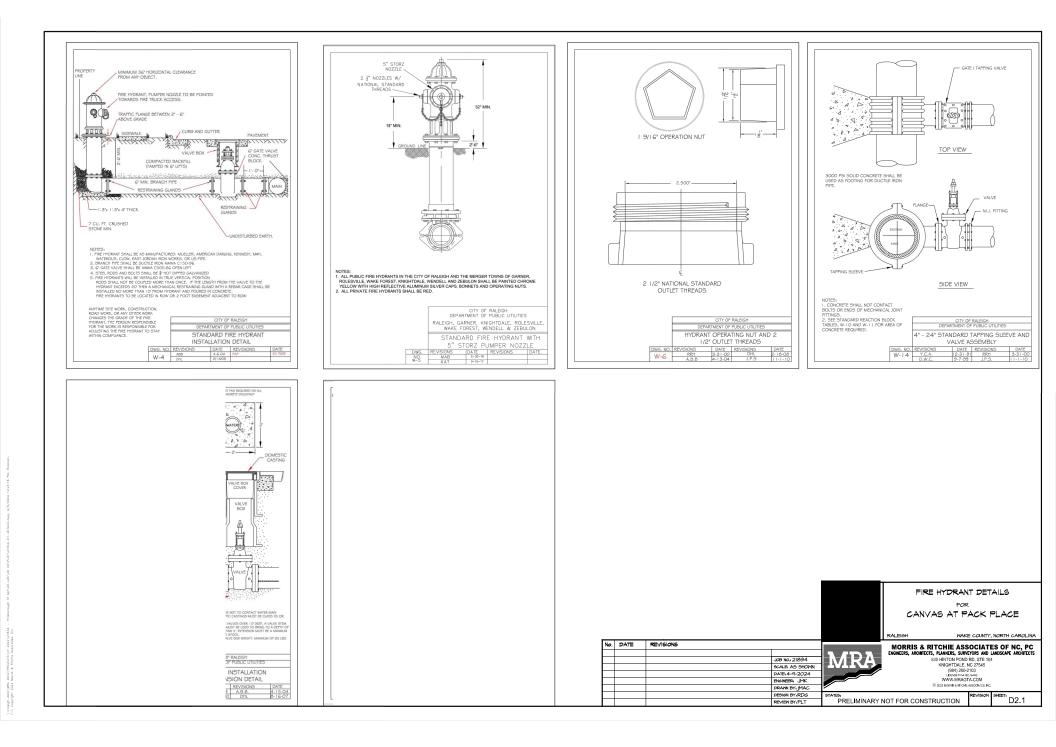


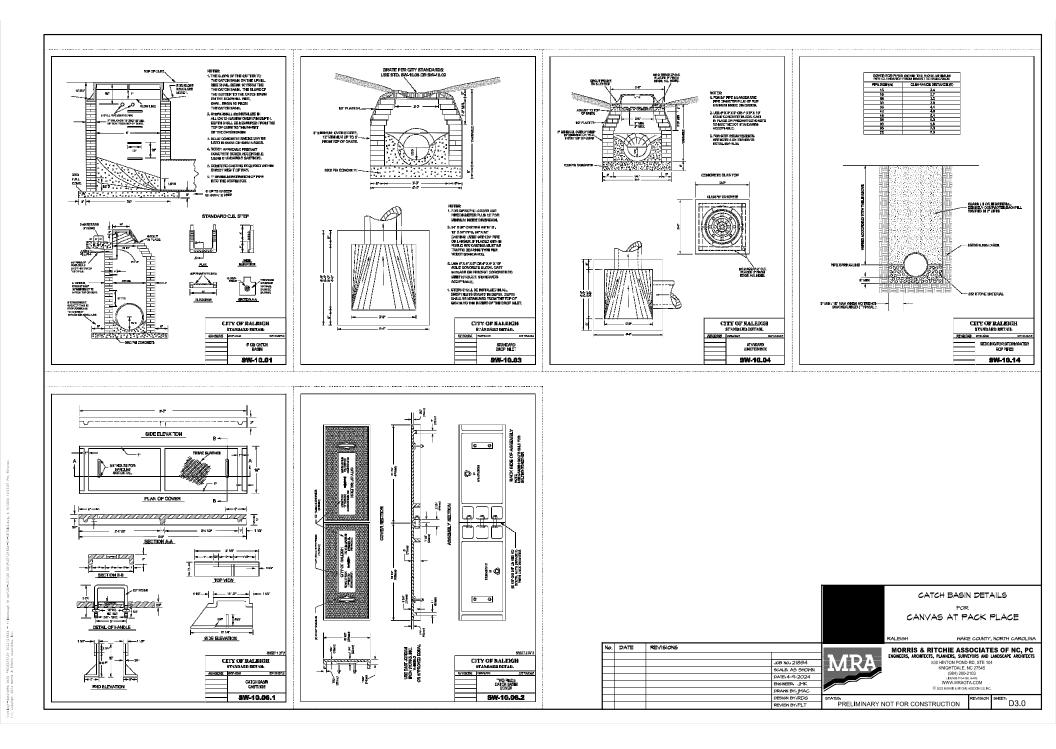


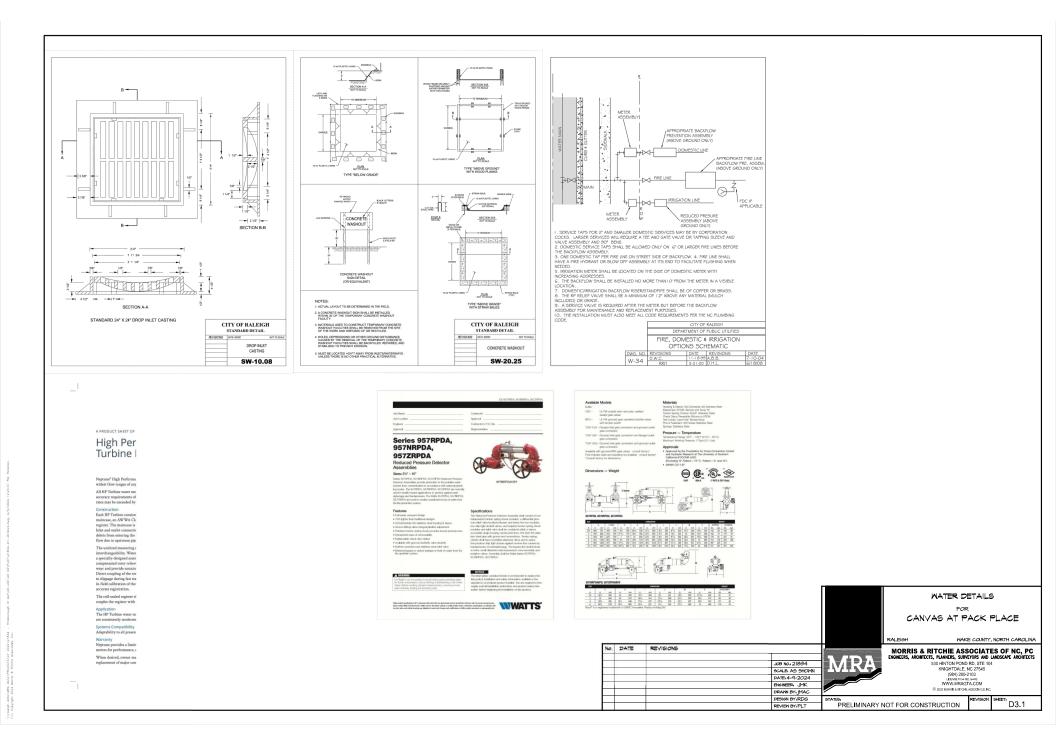


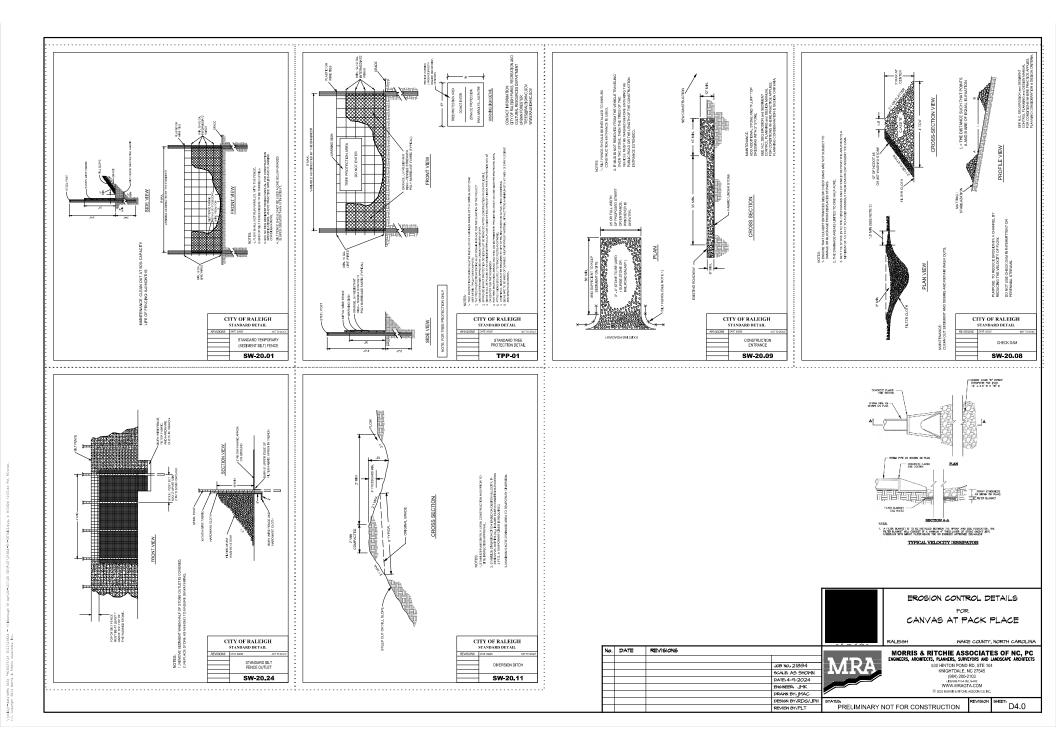


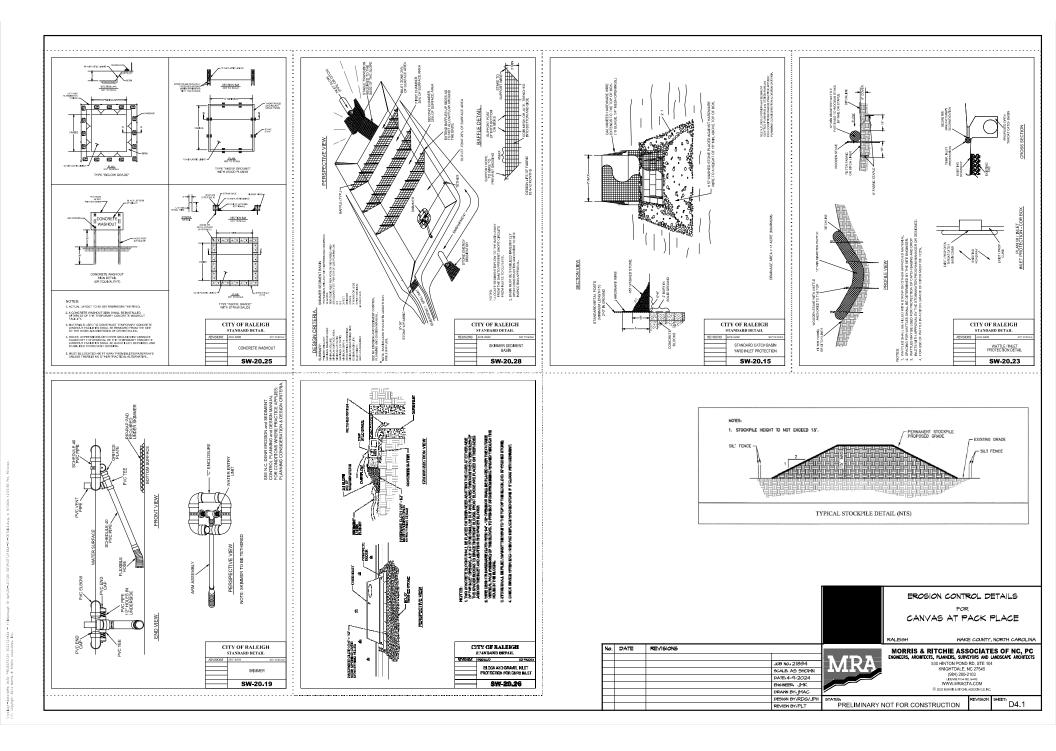


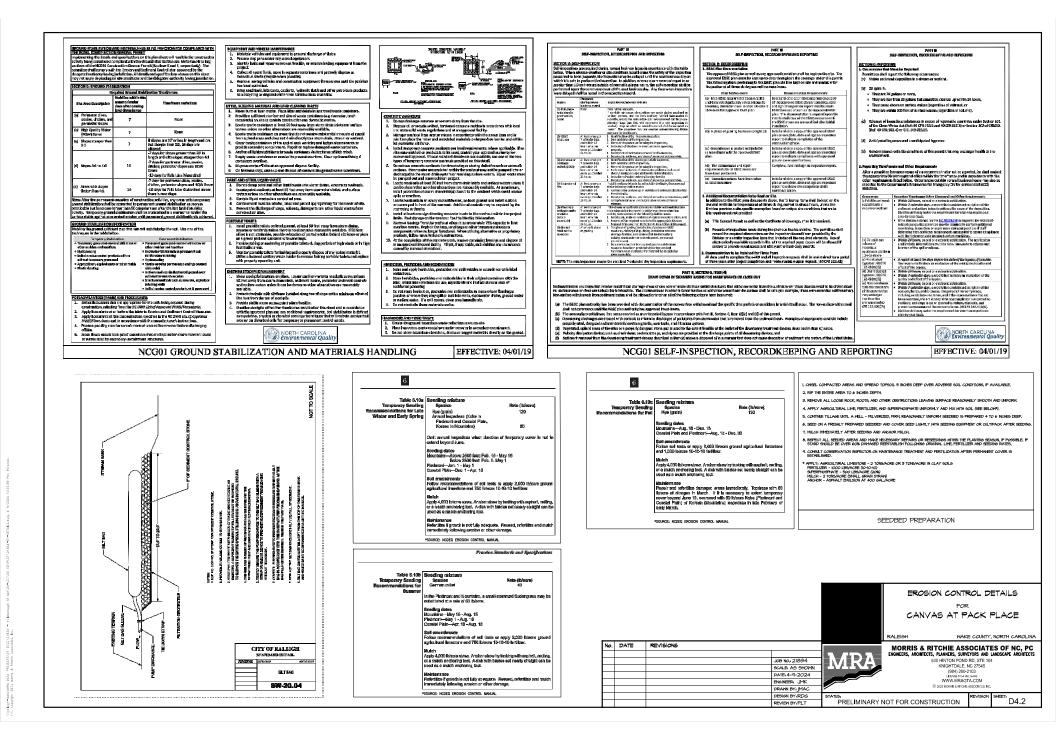


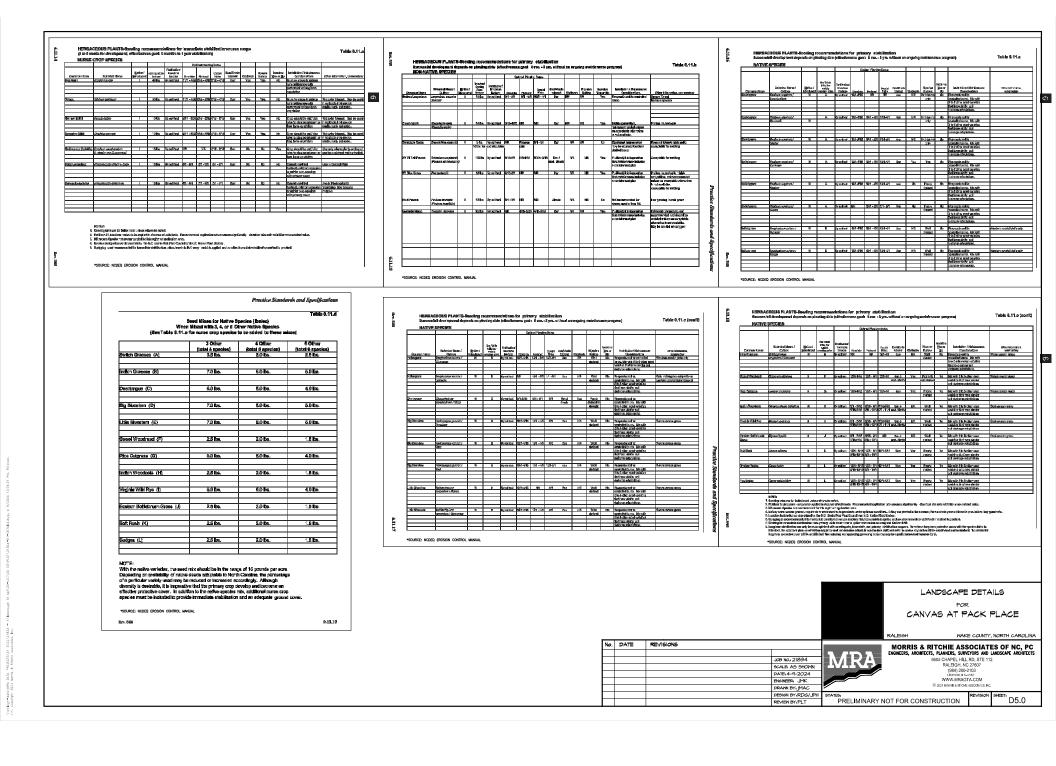


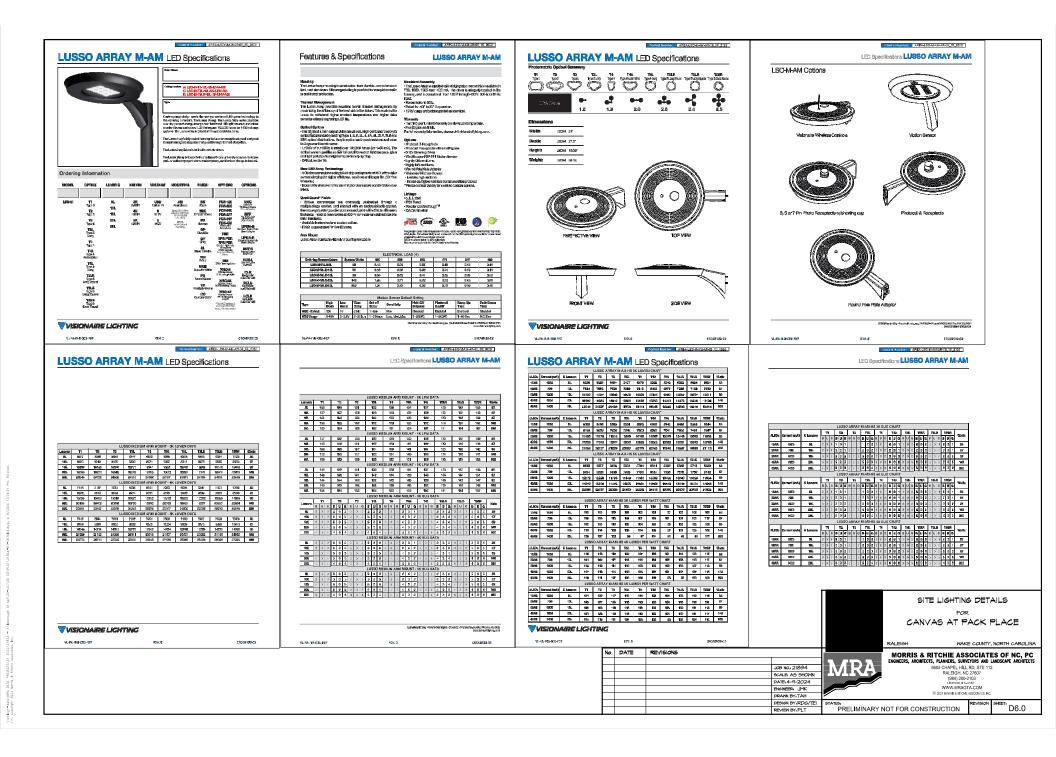


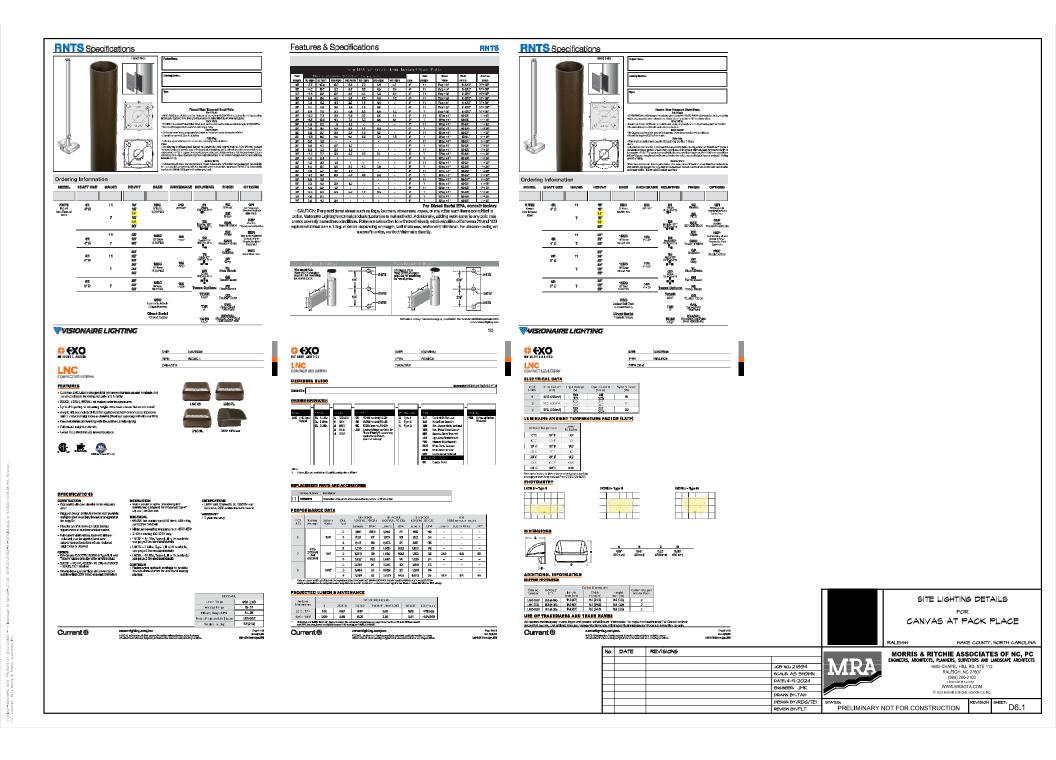












PROJEC	T INFORMATION
ENGINEERED PRODUCT	
ADS SALES REP	
PROJECT NO.	





# PACK AT CANVAS PLACE

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#### **MC-3500 STORMTECH CHAMBER SPECIFICATIONS**

- 1. CHAMBERS SHALL BE STORMTECH MC-3500.
- 2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- 3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
- 4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- 5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- 6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOFLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-VR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- 7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
  - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
  - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
  - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/F17%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROLECT SITE AS FOLLOWS:
  - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
  - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
  - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 90(1 CERTIFIED MANUFACTURING FACILITY.

#### IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

- 1. STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- 2. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- 3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS.
  - STORMTECH RECOMMENDS 3 BACKFILL METHODS: • STONESHOOTER LOCATED OFF THE CHAMBER BED
  - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
  - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- 4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- 5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE
- 6. MAINTAIN MINIMUM 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- 7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
- 9. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
- 10. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- 11. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

#### NOTES FOR CONSTRUCTION EQUIPMENT

- 1. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
  - THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
    - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
       NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500 (CMS) REFUCTION GUIDE"
    - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
  - FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

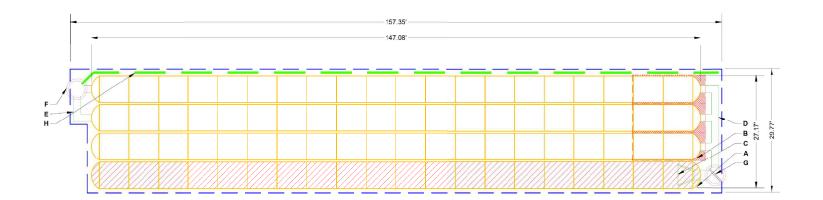
USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

2022 ADS. INC

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	PROPOSED LAYOUT	PROPOSED ELEVATIONS			*INV	ERT ABOVE BAS	SE OF CHAMBER	1
		MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	485.50 PART TYPE	LAYOU	DESCRIPTION	INVERT	MAX FLOW	
12	STORMTECH MC-3500 END CAPS STONE ABOVE (in)		479.50 479.00 PREFABRICATED END CAP	A	24" BOTTOM CORED END CAP, PART# MC3500IEPP24BC / TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS	2.06"		ACE
40		TOP OF STONE	479.00 479.00 PREFABRICATED END CAP 478.50	в	18" BOTTOM CORED END CAP, PART#: MC3500IEPP18BC / TYP OF ALL 18" BOTTOM CONNECTIONS	1.77"		Ч
5504	(PERIMETER STONE INCLUDED)	TOP OF MC-3500 CHAMBER:	476.50 477.50 FLAMP 473.92 MANIFOLD	C	INSTALL FLAMP ON 24" ACCESS PIPE / PART#: MC350024RAMP 18" x 18" BOTTOM MANIFOLD, ADS N-12	177"		AS
	(BASE STONE INCLUDED)	18" x 18" BOTTOM MANIFOLD INVERT:	473.90 MANIFOLD	E	18" x 18" BOTTOM MANIFOLD, ADS N-12	1.77"		NZ.
	SYSTEM PERIMETER (ft)	18" BOTTOM CONNECTION INVERT:	473.90 CONCRETE STRUCTURE 473.90 CONCRETE STRUCTURE	G	OCS (DESIGN BY ENGINEER / PROVIDED BY OTHERS) (DESIGN BY ENGINEER / PROVIDED BY OTHERS)		8.0 CFS OUT 16.5 CFS IN	Q O
		UNDERDRAIN INVERT:	473.75W/WEIR 473.00UNDERDRAIN 473.00	н	6" ADS N-12 DUAL WALL PERFORATED HDPE UNDERDRAIN			AT



ISOLATOR ROW PLUS (SEE DETAIL)

PLACE MINIMUM 17.50' OF ADSPLUS175 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

NOTES MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD. THES ITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET. THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS NOT FOR CONSTRUCTION: THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

DESCRIPTION

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2 OF 5

StormTech<sup>®</sup> Chamber System

4640 TRUEVAN BLVD HILLIARD, OH 43026 1-800-733-7473

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BED LIMITS

ACCEPTABLE FILL MATERIALS: STORMTECH MC-350	CHAMBER SYSTEMS
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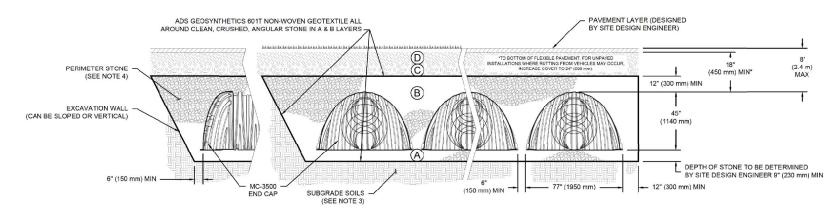
	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS, PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
с	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24' (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145' A-1, A-2-4, A-3 OR AASHTO M43' 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF NATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
в	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M431 3, 4	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FRCM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M431 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE 23

#### PLEASE NOTE:

THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE". STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.

WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR 3. COMPACTION REQUIREMENTS.

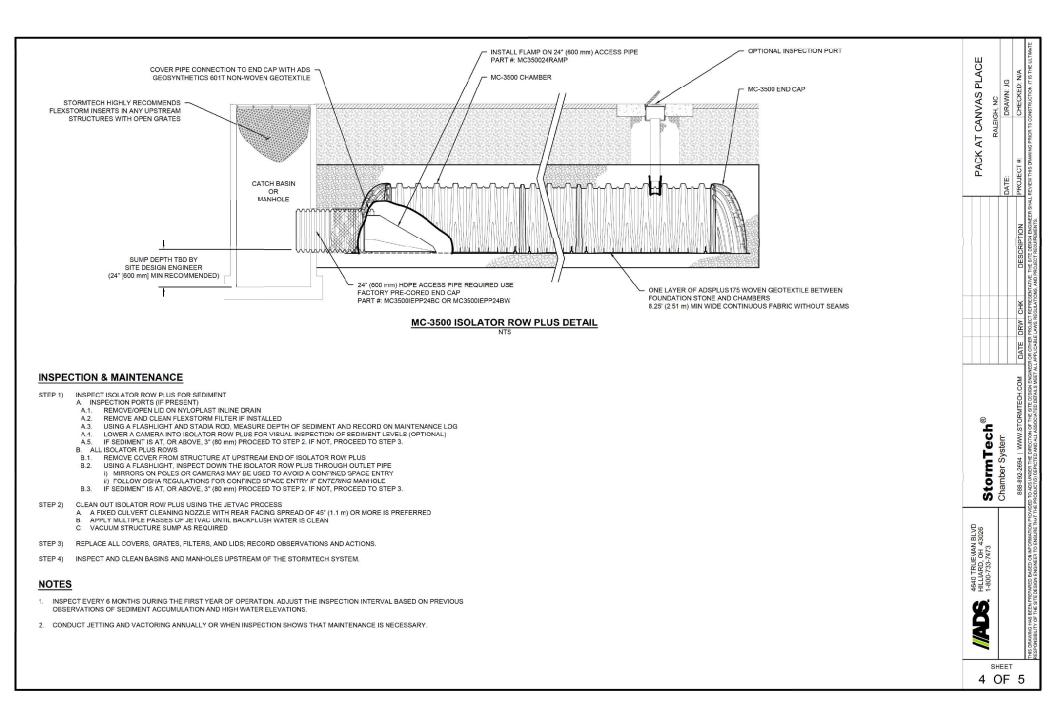
ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION

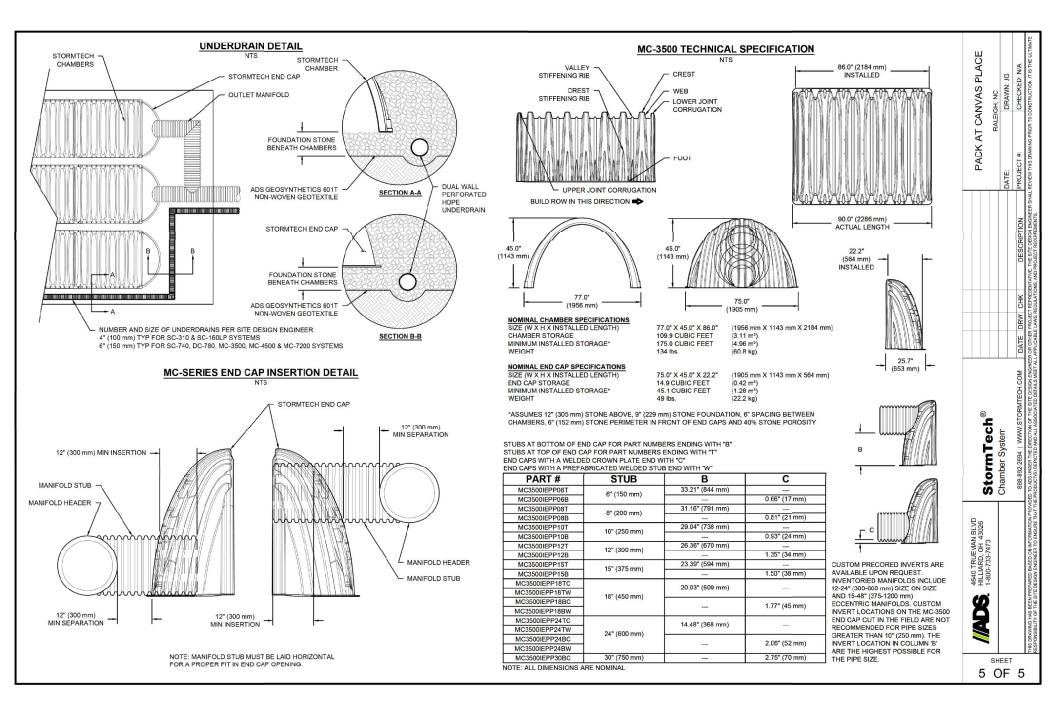


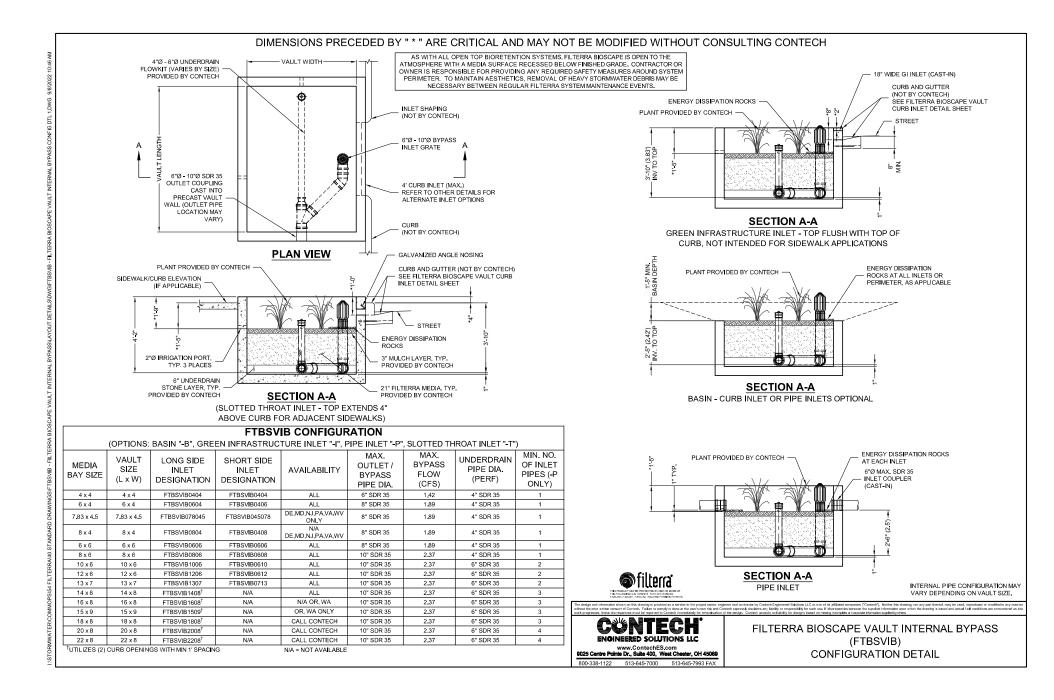
#### NOTES:

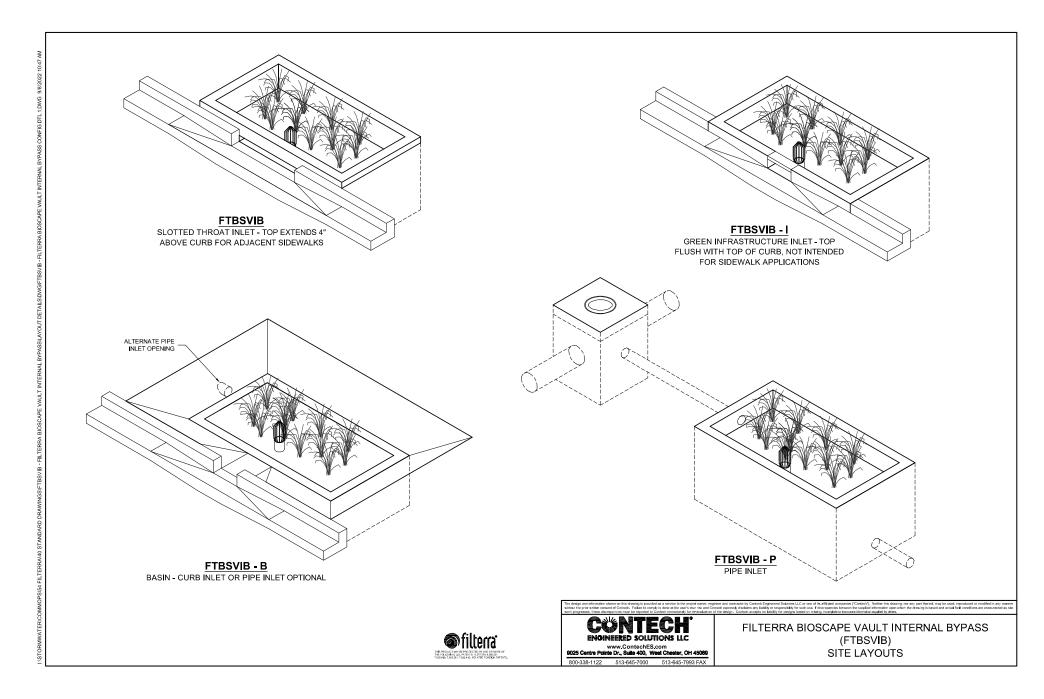
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
- MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS"
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION 3 FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS. 4.
- 5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
  - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS .
  - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
  - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF
  - ASTM F24 18. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73" F / 23" C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

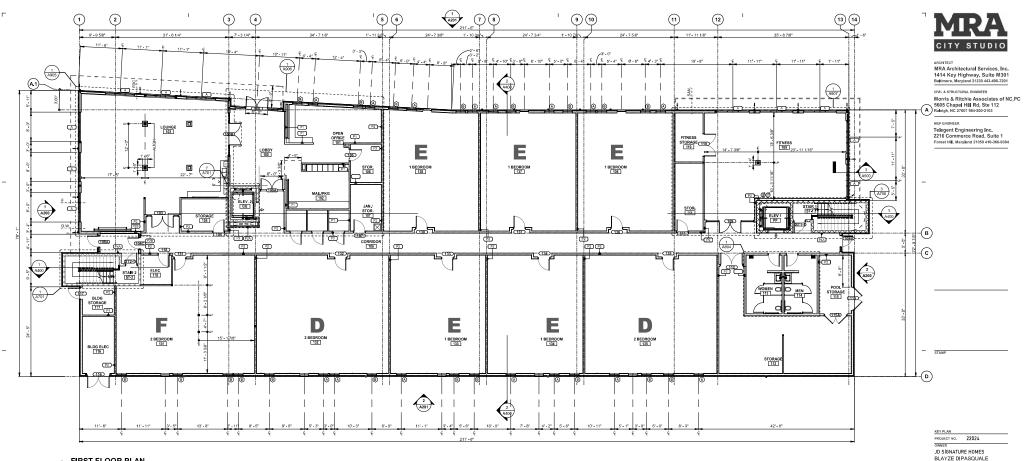
PACK AT CANVAS PLACE g AWN S RALEIGH, I R ROJECT DATE NO NNC DATE MOC E StormTech<sup>®</sup> Chamber System 4640 TRUEMAN BLVD HILLIARD, OH 43026 1-800-733-7473 8 SHEET 3 OF 5











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1 FIRST FLOOR PLAN 1/8" = 1'-0" REF: 1/ A200

GENERAL OVERALL FLOOR PLAN NOTES

ALL DIMENSIONS ARE FINISH DIMENSIONS, UNLESS OTHERWISE NOTED.
 IT IS THE CONTRACTORS RESPONSIBILITY TO SMOOTH ALL ROUGH SURRACES
 ON FLOORS RO PATCH, FLU, OR FLOAT EXISTING FLOORS TO SMOOTH
 CONDITION CAPABLE OF RECENTING NEW FINISHED FLOOR COVERING.
 ALL WALLS TO BE FL, UNLESS OTHED OTHERWISE.

ALL WALLS TO BE P1, UNLESS NOTED OTHERWISE.
 SEE UNIT PLAN SHEETS FOR ADDITIONAL INFORMATION.

135 SUB445004 04/26/202
 165 SUB445004 04/26/202
 165 SUB455004 06/27/202
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 165 SUB455
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 165 SUB45

PROJECT NAME CANVAS AT PACK PLACE 6019 & 6101 HILLSBOROUGH ST RALEIGH, NC

A101

PROJECT NO. DATE ISSUED 22024 2.13.24 2/13/2024 2:37:16 PM

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SUBMISSION SUBMISSION 3 95% SUBMISSION 06/09/2023 NO. REVISION DATE

fs were prepared or approve lowwed architect under the aroline, license number 1983 CONTENTS COPYRIGHT 2022 MRAARCHITECTURAL SERVICES, NC. SHEET TITLE ELEVATION - NORTH/ SOUTH

Loorlity that these documents by me, and that I am a duly is knes of the State of North Ca expiration date 06/38/2024.

E3 BLANK WALL REQUIRED: 35 MAX PROVIDED 14
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E1 GROUND FLOOR	CALCULATIONS	TOTALS	CALCULATIONS	TRANSPARENCY
TOTAL FIRST FLOOR WALL AREA	78-1" x 12'-0" = 936,996 sf	936.996 sf	184.002 + 32.252 sf = 216.254 sf	REQUIRED: 20%
FENESTRATION & (TYP OF 3) FENESTRATION B (TYP OF 1)	8-0"W × 7'-8"T = 61.334 sf 4-6"W × 7'-2"T = 32.252 sf		216.254 sf / 936.996 sf = 0.231 0.231 = 23%	PROVIDED: 23%

TRANSPARENCY REQUIREMENTS PER UDO 3.2.4.E



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ARCHITECT MRA Architectural Services, Inc. 1414 Key Highway, Suite M301 Battimore, Maryland 21230 443-490-7201

CIVIL & STRUCTURAL ENGINEER Morris & Ritchie Associates of NC,PC 5605 Chapel Hill Rd, Ste 112 Raleigh, NC 27607 984-200-2103

MEP ENGINEER Telegent Engineering Inc. 2216 Commerce Road, Suite 1 Forest Hill, Maryland 21050 410-366-9384



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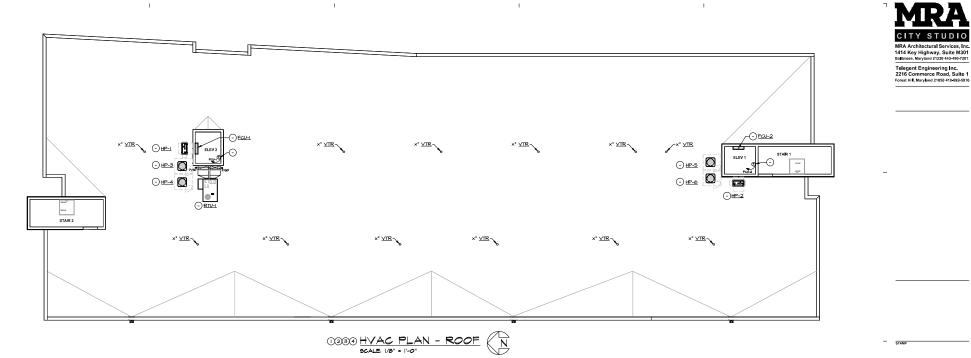




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#### DRAWING NOTES

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- () REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL FIXTURES AND EQUIPMENT.
- CONTRACTOR SHALL THOROUGHLY REVIEW THE ARCHITECTURAL DRAWINGS AND PROVIDE FIRE DAMPERS OR CEILING RADIATIONS DAMPERS, AS APPROPRIATE, AT ALL DUCY TENETRATIONS IN FIRE RATED FLOOR/CEILINGS ASSEMBLIES THROUGHOUT THE PROJECT AREA.
- (3) REFER TO INSULATION SCHEDULE, SHEET MXXX, FOR INSULATION REQUIREMENTS. 4 PROVIDE UL. LISTED FIRESTOP/SEALANT AROUND ALL PENETRATIONS OF FIRE RATED
- CONTROLLES
   PROVIDE PACKAGED ROOFIOP UNT NITH COMPLETE PERIMETER CURB. COORDINATE EXECUTION AND THE POOL STATIC LIRES. INCOME ROOF OPENMOS AS REQUIRED. EXECUTION AND THE POOL STATIC LIRES. INCOME TO A DISCUSSION AS TO ADDITIONAL INFORMATION.
   ()
   MAINTAIN MANIFACTURER'S RECOMMENDED SERVICE CLEARANCE.
- $\widehat{0}$  provide double insulated sheetmetal ductwork on roof extended as shown, provide ductwork supports as required. Refer to detail mXXX, for additional information.
- ADDITIONAL INCOMPANIAN DEPONDENT HOLMAND, DOCUMENT AND STOLEN FOUNDATION OF THE THE STOLEN AND STOLENA AND STO
- PROVIDE ACCIVER FORK TO DEL. () PROVIDE ROOF MONTHE FART FIMP WITH DIGITAL INVERTER ON SNOW STANDS. () FIELD CORDINATE EXACT LOCATION WITH ALL OTHER TRADES AND MAINTAIN ALL MAINFACTURENS RECOMMENDED SERVICE CLEARANCES, REFER TO SCHEDULE, SHEET MXXX, FOR ADDITIONAL INFORMATION.

I.

(II) APPROXIMATE LOCATION OF VENT PIPING THROUGH ROOF (FOR COORDINATION ONLY). REFER TO PLUMBING DRAWING FOR ADDITIONAL INFORMATION. BYHTECT.

KEY PLAN PROJECT NO. 22174 OWNER JD SIGNATURE HOMES BLAYZE DIPASQUALE

PROJECT NAME CANVAS AT PARK PLACE 6019 & 6101 HILLSBOROUGH ST RALEIGH, NC

NO	REVISION	DATE

CONTENTS COPYREM 2022 TELESENT ENGNEERING, NO SHEET TITLE

HVAC PLAN ROOF

M103

5CALE:1/8"=1'-0"

65% CD SUBMISSION 05/19/2023

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