

AC MARRIOTT NORTH HILLS EAST

101 PARK AT NORTH HILLS STREET

FINAL SITE REVIEW & INFRASTRUCTURE CONSTRUCTION DRAWINGS

CASE NUMBER: XXXXXXXX
TRANSACTION NUMBER: XXXXXXXX
RALEIGH, NORTH CAROLINA
PROJECT NUMBER: DLR-14000

DATE: JUNE 30, 2015

PUBLIC IMPROVEMENT QUANTITIES	
PHASE NUMBER:	N/A
NUMBER OF LOTS:	1
LOT NUMBERS BY PHASE:	N/A
NUMBER OF UNITS:	N/A
OPEN SPACE:	0
NUMBER OF OPEN SPACE LOTS:	0
WATER (PUBLIC)	0 LF
SEWER (PUBLIC)	0 LF
STREETS (PUBLIC)	0 LF
SIDEWALK (PUBLIC)	55 LF

PARKING DATA	
PARKING REQUIRED	RETAIL: 2,265 SF 1 SPACE PER 250 SF 2,265/250 = 10 SPACES
	HOTEL: 135 ROOMS 1 SPACE PER ROOM 135 SPACES
	SUBTOTAL: 145 SPACES 10% LANDSCAPE PARKING REDUCTION 34% PDD REDUCTION ALLOWED TOTAL REQUIRED: 87 SPACES
	PARKING PROVIDED IN THE PARKING DECK AT THE ADJACENT NORTH HILLS EAST TOWER 2 SITE. THE TOWER 2 DECK HAS 130 SURPLUS PARKING SPACES.
PARKING PROVIDED IN THE PARKING DECK AT THE ADJACENT NORTH HILLS EAST TOWER 2 SITE. THE TOWER 2 DECK HAS 130 SURPLUS PARKING SPACES.	RETAIL: 13,070 SF IN TOWER 2 1 SPACE PER 250 SF 13,070/250 = 53 SPACES
	OFFICE: 284,197 SF IN TOWER 2 1 SPACE PER 300 SF 284,197/300 = 948 SPACES
	SUBTOTAL: 1,001 SPACES 10% LANDSCAPE PARKING REDUCTION 34% PDD REDUCTION ALLOWED TOTAL REQUIRED: 595 SPACES PARKING IN DECK: 725 SPACES

DEVELOPER:
KANE CONCORD HOTEL EAST TWO, LLC
11410 COMMON OAKS DRIVE
RALEIGH, NORTH CAROLINA 27614
CONTACT: CARL HREN
PHONE: 919-455-2900
EMAIL: carl.hren@concordhotels.com

SHEET INDEX

- C-1 DEMOLITION PLAN
- C-2 SITE PLAN
- C-3 GRADING AND STORM DRAINAGE PLAN
- C-4 UTILITY PLAN
- EC-1 EROSION CONTROL PLAN - STAGE 1
- EC-2 EROSION CONTROL PLAN - STAGE 2
- EC-3 NPDES PLAN
- EC-4 EROSION CONTROL DETAILS
- LS-1 LANDSCAPE PLAN
- D-1 SITE DETAILS
- D-2 UTILITY AND STORM DRAINAGE DETAILS
- D-3 UTILITY AND STORM DRAINAGE DETAILS
- A5-1 BUILDING ELEVATIONS
- A5-2 BUILDING ELEVATIONS
- RECORDED PLAT



Final Site and Commercial Building Data Sheet

GENERAL INFORMATION	
Development Name	Marriott at North Hills East
Proposed Use	Hotel
Property Address(es)	101 Park at North Hills Street
Wake County Property Identification Number(s) for each parcel to which these guidelines will apply	
P.I.N.	1706806148
P.I.N.	
P.I.N.	
What is your project type?	
<input type="checkbox"/> Apartment <input type="checkbox"/> Mixed Residential <input type="checkbox"/> School	<input type="checkbox"/> Bank <input type="checkbox"/> Non-residential Condo <input type="checkbox"/> Shopping Center
<input type="checkbox"/> Elderly Facility <input type="checkbox"/> Office <input type="checkbox"/> Single Family	<input type="checkbox"/> Hospital <input type="checkbox"/> Religious Institution <input type="checkbox"/> Telecommunication Tower
<input checked="" type="checkbox"/> Hotel/Motel <input type="checkbox"/> Residential Condo <input type="checkbox"/> Townhouse	<input type="checkbox"/> Industrial Building <input checked="" type="checkbox"/> Retail <input type="checkbox"/> Other
Scope of Work Provide all infrastructure and fine grading for hotel.	

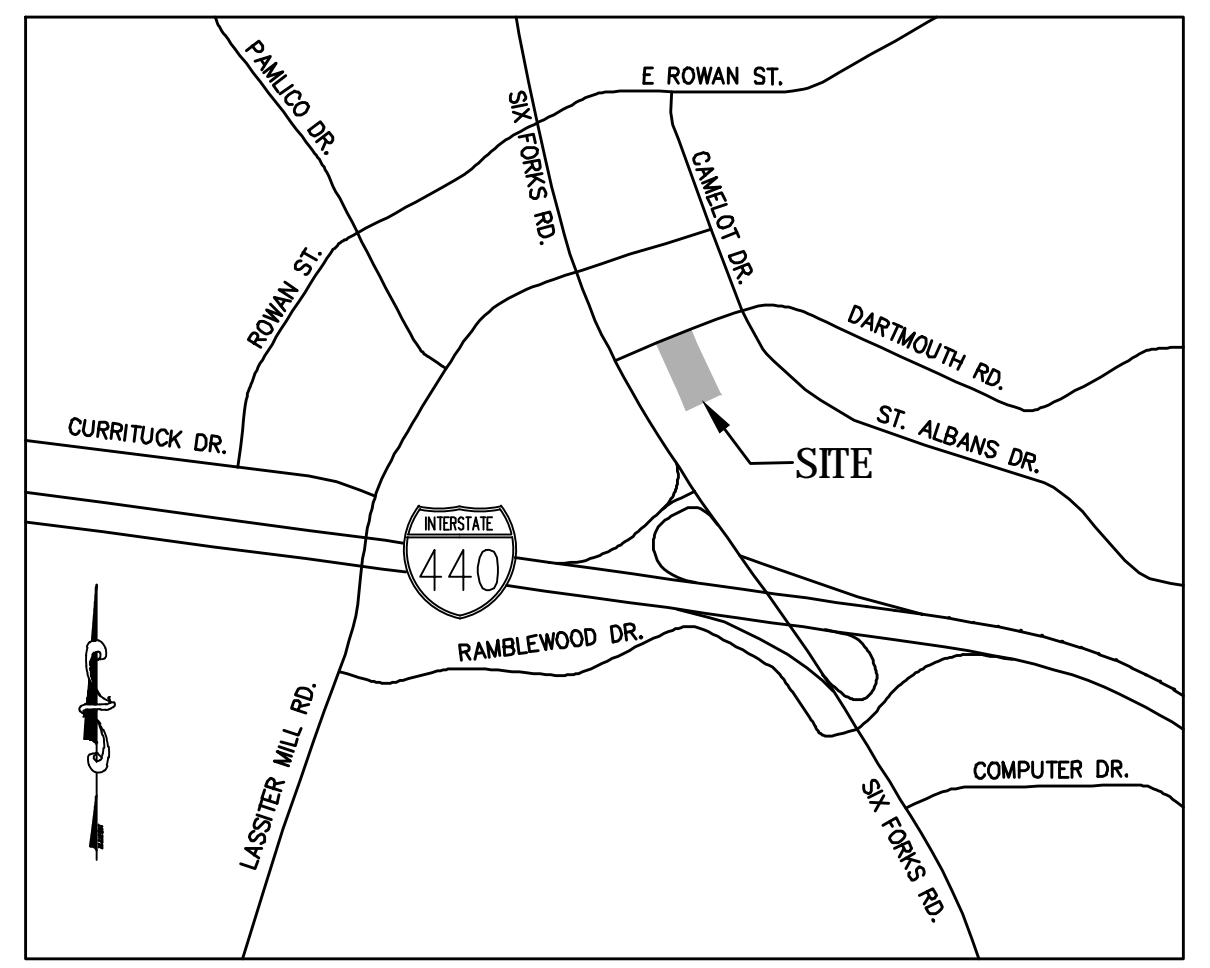
SOLID WASTE COMPLIANCE STATEMENT:

- THE DEVELOPER ACKNOWLEDGES THAT THEY HAVE REVIEWED AND ARE IN COMPLIANCE WITH THE REQUIREMENTS SET FORTH IN THE SOLID WASTE DESIGN MANUAL.
- THE SOLID WASTE REMOVAL FOR THIS PROJECT WILL BE HANDLED BY A PRIVATE SERVICE.
- REFUSE WILL BE COLLECTED IN A CENTRAL COLLECTION AND RECYCLING AREA WITHIN THE HOTEL. ACCESS TO THE REFUSE COLLECTION AREA IS OFF OF THE ALLEY BEHIND THE HOTEL.

ALL CONSTRUCTION SHALL CONFORM WITH THE LATEST VERSION OF THE CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.

NOTES

- THE MINIMUM CORNER CLEARANCE FROM THE CURB LINE OR EDGE OF PAVEMENT INTERSECTING STREETS SHALL BE AT LEAST TWENTY (20) FEET FROM THE INTERSECTION OF THE RIGHT-OF-WAY LINES, WHICHEVER IS GREATER. THE RADIUS OF THE DRIVEWAY SHALL NOT ENCRUCH ON THE MINIMUM CORNER CLEARANCE.
- WITHIN THE AREA OF A DEFINED SIGHT TRIANGLE, THERE SHALL BE NO SIGHT OBSTRUCTING OR PARTLY OBSTRUCTING WALL, FENCE, SIGN, FOLIAGE, BERMING OR PARKED VEHICLES BETWEEN THE HEIGHTS OF TWENTY-FOUR (24) INCHES AND EIGHT (8) FEET ABOVE THE CURB ELEVATION OR THE NEAREST TRAVELED WAY, IF NO CURBING EXISTS.



VICINITY MAP
1" = 1000'

ATTENTION CONTRACTORS

The Construction Contractor responsible for the extension of water, sewer, and/or reuse, as approved in these plans, is responsible for contacting the Public Works Department at (919) 996-2409, and the Public Utilities Department at (919) 996-4540 at least **twenty four hours** prior to beginning any of their construction.

Failure to notify both City Departments in advance of beginning construction, will result in the issuance of monetary fines, and require installation of any water or sewer facilities not inspected as a result of this notification failure.

Failure to call for inspection, install a Downstream Plug, have Permitted Plans on the Jobsite, or any other Violation of City of Raleigh Standards will result in a **Fine and Possible Exclusion** from future work in the City of Raleigh.

CITY OF RALEIGH

All Construction must be in accordance with all Local, State, and Federal Rules and Regulations

TRANSPORTATION SERVICES _____

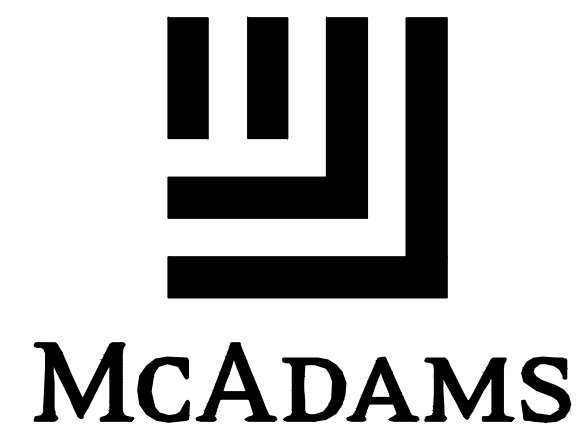
PUBLIC UTILITIES _____

STORMWATER _____

PLANNING _____

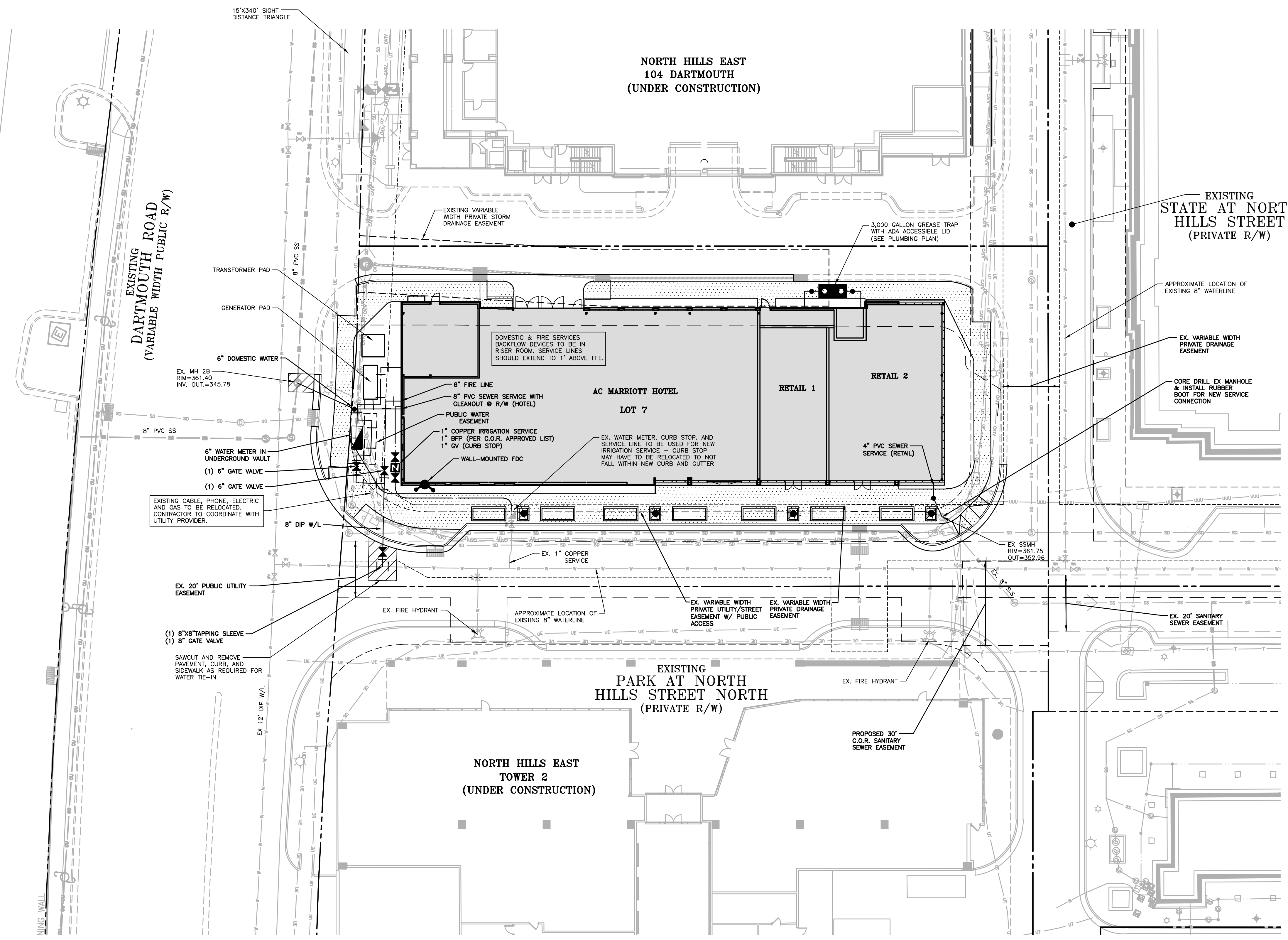
FIRE _____

URBAN FORESTRY _____



**THE JOHN R. McADAMS
COMPANY, INC.**
 2905 Meridian Parkway
 Durham, North Carolina 27713
 License No.: C-0293
 (800) 733-5646 • McAdamsCo.com
 Contact: Andy Padiak
 padiak@mcadamsc.com

X:\Projects\DLR-14000\Land\Site Plan - Construction Drawing\Current Drawings\DLR14000-U1.dwg, 7/1/2015, 4:36:22 PM, Domestic_Road



UTILITY NOTES

- DIP WATER MAINS SHALL BE INSTALLED AT A MINIMUM DEPTH WITH A MINIMUM COVER OF 36 INCHES.
- ALL WATER MAINS, DOMESTIC, AND FIRE SERVICES LARGER THAN 2" ARE TO BE DUCTILE IRON PIPE. DOMESTIC SERVICES 2" AND SMALLER MUST BE TYPE K SOFT COPPER (WITHOUT FITTINGS) TO THE WATER METER.
- WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWERS.
- WHEN A WATER MAIN CROSSES OVER A SEWER, A MINIMUM OF 24" VERTICAL SEPARATION MUST BE MAINTAINED BETWEEN THE OUTSIDES OF THE PIPE.
- WHEN IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER MAIN, A MINIMUM OF 18" VERTICAL SEPARATION MUST BE MAINTAINED BETWEEN THE OUTSIDES OF THE PIPE AND BOTH MAINS SHALL BE CONSTRUCTED OF DUCTILE IRON AND TO WATERMAIN STANDARDS FOR AT LEAST 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.
- 18" VERTICAL SEPARATION IS REQUIRED AT ALL WATER MAIN & STORM DRAINAGE CROSSINGS, AND 24" VERTICAL SEPARATION IS REQUIRED AT ALL SEWER MAIN & STORM DRAINAGE CROSSINGS. DIP MATERIALS & A CONCRETE CRADLE CAN BE SPECIFIED AT UTILITY & STORM CROSSINGS WHERE STANDARD SEPARATIONS CANNOT BE ACHIEVED, PROVIDED THAT A 6" MINIMUM SEPARATION IS MAINTAINED.
- A PRESSURE REDUCING VALVE SHALL BE PROVIDED ON ANY WATER SERVICE IF PRESSURE IS IN EXCESS OF 80 PSI.
- ALL FIRE HYDRANTS ALONG PUBLIC R/W LINES SHALL HAVE A 2"Wx2'L PUBLIC UTILITY EASEMENT ONTO ADJACENT PROPERTY.
- ALL EXISTING UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS. ACTUAL LOCATION AND DEPTH TO BE CONFIRMED BY THE CONTRACTOR IN FIELD BEFORE CONSTRUCTION.
- UTILITY SLEEVES SHALL BE PVC (SCH. 40). INSTALL WITH 2" MINIMUM COVER. CAP AND MARK BOTH ENDS.
- THE OWNER FOR THIS DEVELOPMENT IS THE OWNER OF ALL PRIVATE WATER & SEWER LINES LOCATED OUTSIDE PUBLIC RIGHT-OF-WAYS OR UTILITY EASEMENTS DEDICATED TO THE CITY OF RALEIGH. THE OWNER IS ALSO SOLELY RESPONSIBLE FOR THE OPERATION & MAINTENANCE OF THESE FACILITIES.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH STANDARDS & DETAILS, LATEST EDITION.

UTILITY LEGEND

	FIRE HYDRANT ASSEMBLY		WATERLINE
	FIRE DEPARTMENT CONNECTION (FDC)		WATER SERVICE LINE
	WATER VALVE		UTILITY SLEEVE
	METER & VAULT		SANITARY SEWER
	REDUCER		SEWER SERVICE LINE
	SEWER CLEAN-OUT		GAS LINE
	BACKFLOW DEVICE		OVERHEAD UTILITY
			UNDERGROUND ELECTRIC
			TELEPHONE
			UNDERGROUND TELEPHONE
			CABLE TV LINE
			EASEMENT LINE
			CONCRETE

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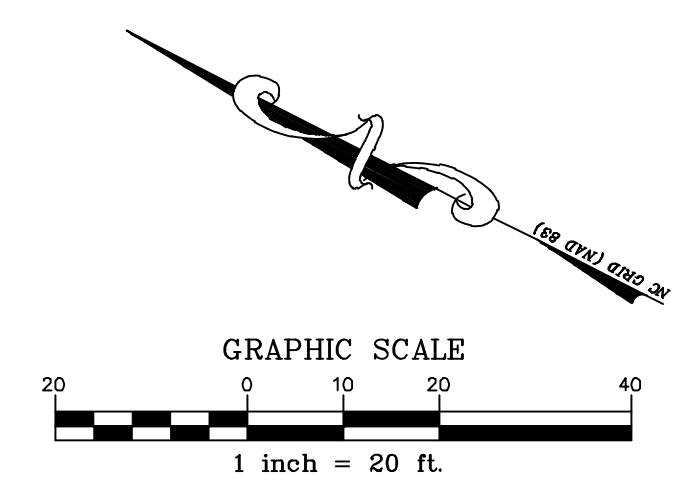
PUBLIC UTILITIES _____

STORMWATER _____

PLANNING _____

FIRE _____

URBAN FORESTRY _____



ALL CONSTRUCTION SHALL CONFORM WITH THE LATEST VERSION OF THE CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

THE JOHN R. MCADAMS COMPANY, INC.
2905 Meridian Parkway
Durham, North Carolina 27713
Phone No.: 919-288-5288
Fax No.: 919-288-5288
(800) 733-5646 - MacAdamsCo.com



REVISIONS:

DEVELOPER:

KANE CONCORD HOTEL
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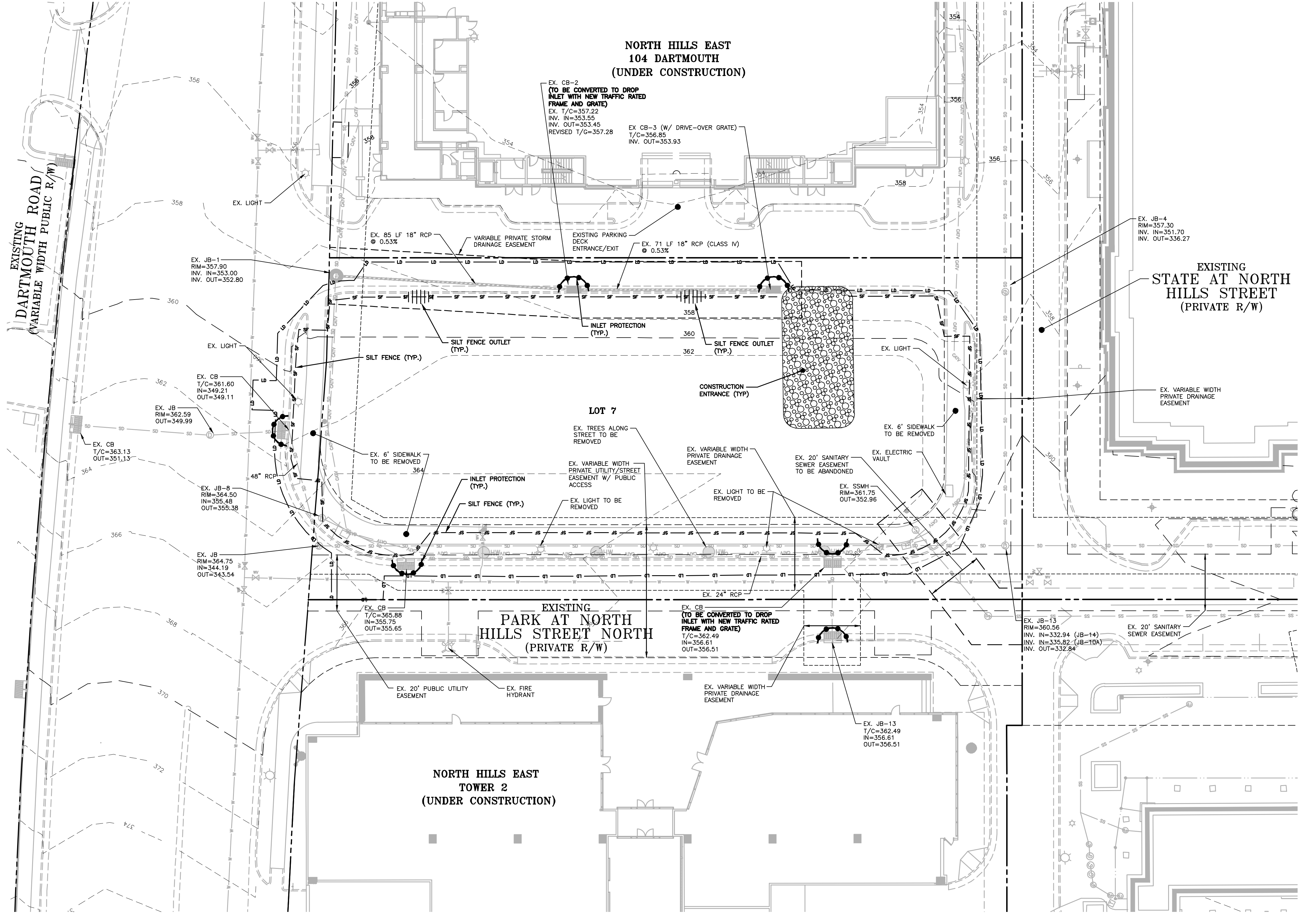
**NORTH HILLS EAST AC MARRIOTT
PARK AT NORTH HILLS STREET
& DARTMOUTH ROAD
RALEIGH, NORTH CAROLINA**

UTILITY PLAN

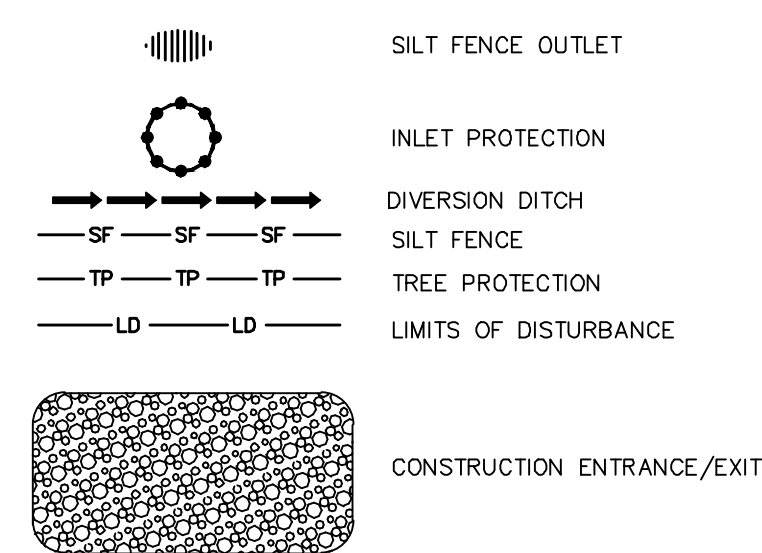
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FILENAME: DLR14000-U1
DESIGNED BY: ARP
DRAWN BY: NDW
SCALE: 1" = 20'
DATE: 07-01-2015
SHEET NO. C-4



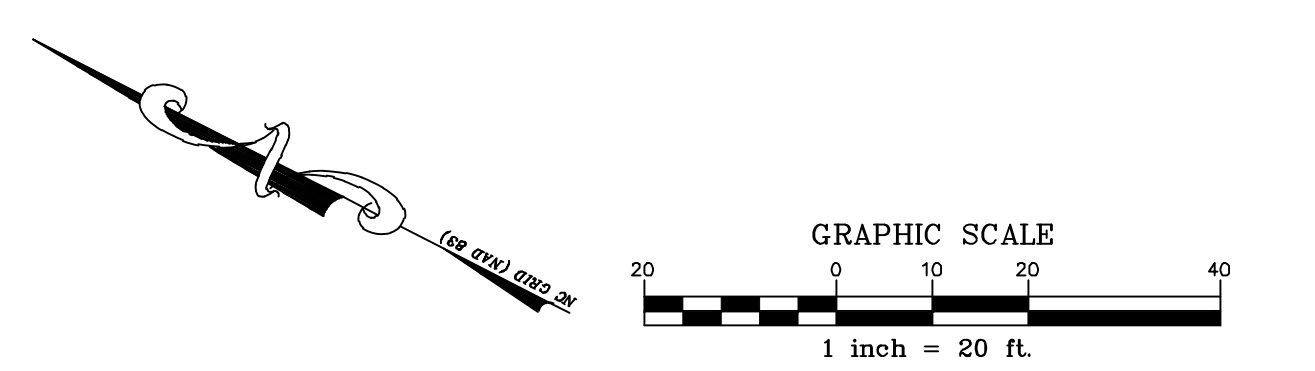
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EROSION CONTROL LEGEND



CITY OF RALEIGH	
All Construction must be in accordance with all Local, State, and Federal Rules and Regulations	
TRANSPORTATION SERVICES	_____
PUBLIC UTILITIES	_____
STORMWATER	_____
PLANNING	_____
FIRE	_____
URBAN FORESTRY	_____



ALL CONSTRUCTION SHALL CONFORM WITH THE LATEST VERSION OF THE CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.

EROSION CONTROL NOTES:

- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.
- ALL DIMENSIONS SHOWN ON SITE PLAN ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS: FINAL RULE 29CFR PART 1926, SUBPART "F" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH. EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRES THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER, PROVIDED BY CONTRACTOR RESPONSIBLE FOR EXCAVATION.
- EQUIPMENT AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED PROVIDED APPROVAL HAS BEEN OBTAINED FROM THE OWNER IN WRITING PRIOR TO ORDERING OR INSTALLATION. THE CONTRACTOR SHALL WAIVE ANY CLAIM FOR ADDITIONAL COST RELATED TO THE SUBSTITUTION OF ALTERNATE EQUIPMENT.
- EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED/RESTORED TO THEIR ORIGINAL CONDITION OR TO THE SATISFACTION OF THE OWNER BY THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.
- SOIL UNDER BUILDINGS, PAVED AREAS AND WITHIN SLOPES GREATER THAN 3:1 (H/V) SHALL BE APPROVED, PLACED AND COMPACTED AS RECOMMENDED BY A GEOTECHNICAL ENGINEER. THESE SOILS SHALL BE COMPACTED TO THE STANDARD PROCTOR MAXIMUM DRY DENSITY UNLESS OTHERWISE RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
- THE CONTRACTOR SHALL NOTE THAT THE DRAWINGS MAY NOT SHOW EVERY OFFSET, TRANSITION, FITTING, ETC. THAT MAY BE REQUIRED. THE CONTRACTOR SHALL INSTALL SUCH STANDARD APPURTENANCES AS REQUIRED TO CLOSELY FOLLOW THE GRADES AND ALIGNMENTS DEPICTED ON THE PLANS.
- CONTRACTOR SHALL NOTIFY "NC811" (811) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR TO CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE UTILITY COMPANIES FOR ANY REQUIRED RELOCATION (I.E. POWER POLES, TELEPHONE PEDESTALS, WATER METERS, ETC.).
- EXISTING UTILITIES SHOWN ARE BASED ON FIELD SURVEYS AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- PRIOR TO STARTING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION CONFERENCE WITH CITY OF RALEIGH EROSION CONTROL PERSONNEL, ENGINEER REP. AND OWNERS REP.
- ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- ALL STREETS MUST BE KEPT CLEAN AT ALL TIMES OR A WASH STATION WILL BE REQUIRED.
- ALL STORM PIPES SHALL BE THOROUGHLY FLUSHED AND VACUUMED OF SEDIMENT BY CONTRACTOR FOLLOWING SITE STABILIZATION.

CONTRACTOR'S MAINTENANCE PLAN:

- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF PRODUCING RAINFALL BUT IN NO CASES LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS SHALL BE DONE IMMEDIATELY TO MAINTAIN ALL MEASURES AS DESIGNED.
- REMOVE SEDIMENT BEHIND SILT FENCE WHEN DEPTH REACHES 6 INCHES AT THE FENCE. REPAIR SILT FENCE AS NECESSARY TO MAINTAIN A BARRIER.
- ALL SEEDING AREAS SHALL BE FERTILIZED, RE-SEEDING AS NECESSARY AND MULCHED ACCORDING TO SPEC'S ON SHEET EC-3 TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE GROWTH.
- ALL OPEN STORM PIPES MUST BE PROTECTED WITH STONE FILTER PROTECTION AFTER WORK STOPPAGE EACH DAY.

SLOPE AND SURFACE STABILIZATION:

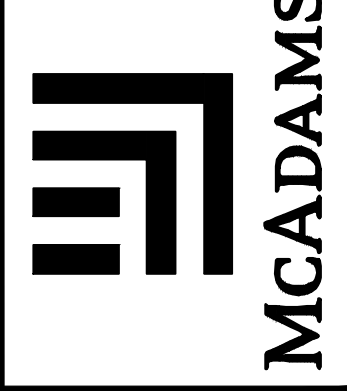
- DURING ALL PHASES OF CONSTRUCTION, PERMANENT GROUND COVER OR OTHER DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION SHALL BE PROVIDED ON ALL DISTURBED AREAS WITHIN 21 DAYS FOLLOWING A TEMPORARY OR PERMANENT STOPPAGE.
- CUT AND FILL SLOPES SHALL BE STABILIZED WITHIN 14 DAYS OF ANY GRADING PHASE.
- SLOPE EROSION CONTROL MATTING SHALL BE INSTALLED FOR TEMPORARY STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER).
- INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.

CONSTRUCTION SEQUENCE:

- OBTAIN GRADING PERMIT.
- CALL EROSION CONTROL INSPECTIONS AT 919-996-3940 TO SCHEDULE THE PRE-CONSTRUCTION MEETING.
- INSTALL SILT FENCING, INLET PROTECTION, AND CONSTRUCTION ENTRANCE AS SHOWN.
- PRIOR TO COMMENCING DEMOLITION AND GRADING OPERATIONS, CALL EROSION CONTROL INSPECTOR FOR AN INSPECTION. IF APPROVED, COMMENCE WITH ADDITIONAL STEPS IN STAGE 1.
- BEGIN DEMOLITION OF EXISTING VEGETATION, LIGHTS AND SIDEWALKS AS SHOWN ON DEMO PLAN. EXISTING CURB & GUTTER ALONG EXISTING STREETS NEEDS TO REMAIN IN PLACE UNTIL NEW CURB IS READY TO BE INSTALLED. LEAVING THESE AREAS OPEN ALLOWS THE SUB-GRADES TO BECOME COMPROMISED AND RUN-OFF TO GET IN UNDER ROADWAYS.
- CONTRACTOR SHALL KEEP SEDIMENT LADEN RUNOFF FROM ENTERING PERIMETER STREETS. ANY SEDIMENT ON PERIMETER STREETS WILL BE CONSIDERED OFF-SITE SEDIMENT.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 14 DAYS OF INACTIVITY.
- SUBMIT DOCUMENTATION REQUIRED UNDER THE SITE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY (NCGO10000) TO STORMWATER INSPECTIONS THROUGHOUT THE PROJECT.
- PRIOR TO COMMENCING STAGE 2, CALL EROSION CONTROL INSPECTOR FOR AN INSPECTION. IF APPROVED, COMMENCE WITH STAGE 2.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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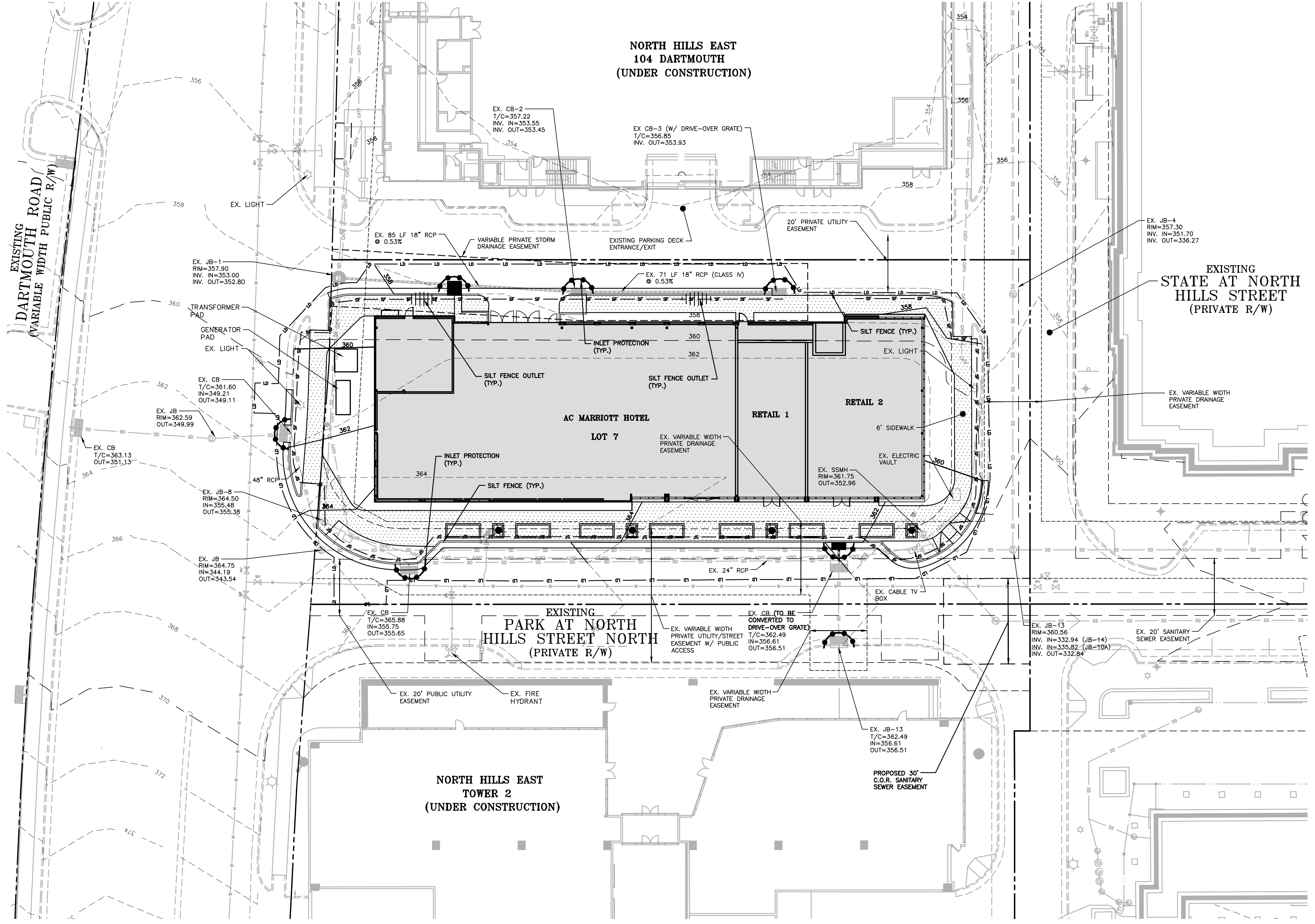
**NORTH HILLS EAST AC MARRIOTT
PARK AT NORTH HILLS STREET
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EROSION CONTROL PLAN - STAGE 1

PROJECT NO. DLR-14000
FILENAME: DLR14000-EC1
DESIGNED BY: ARP
DRAWN BY: NDW
SCALE: 1" = 20'
DATE: 07-01-2015
SHEET NO. EC-1



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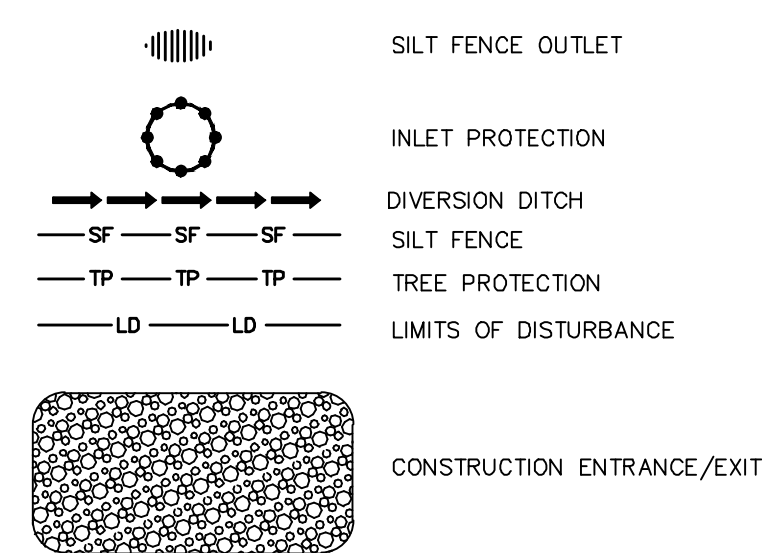
**NORTH HILLS EAST
104 DARTMOUTH
(UNDER CONSTRUCTION)**

**EXISTING
STATE AT NORTH
HILLS STREET
(PRIVATE R/W)**

**EXISTING
PARK AT NORTH
HILLS STREET NORTH
(PRIVATE R/W)**

**NORTH HILLS EAST
TOWER 2
(UNDER CONSTRUCTION)**

EROSION CONTROL LEGEND



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TRANSPORTATION SERVICES	_____
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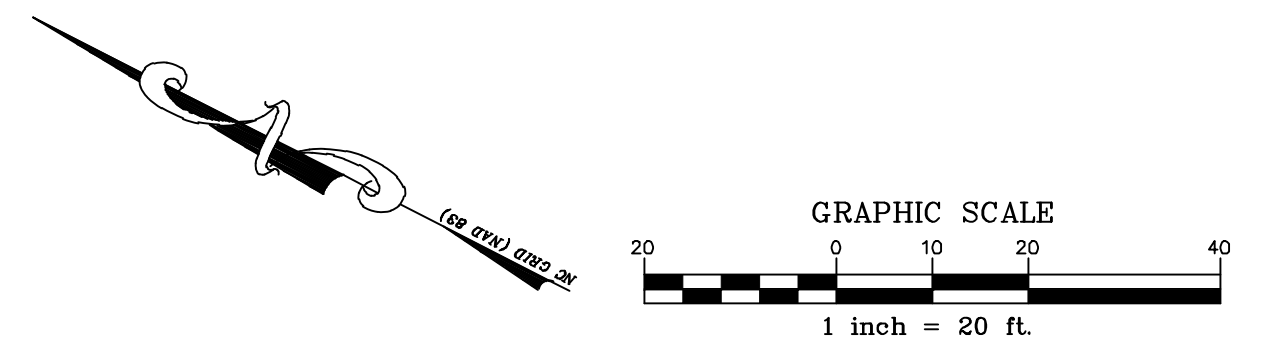
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SLOPE AND SURFACE STABILIZATION:

- DURING ALL PHASES OF CONSTRUCTION, PERMANENT GROUND COVER OR OTHER DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION SHALL BE PROVIDED ON ALL DISTURBED AREAS WITHIN 21 DAYS FOLLOWING A TEMPORARY OR PERMANENT STOPPAGE.
- CUT AND FILL SLOPES SHALL BE STABILIZED WITHIN 14 DAYS OF ANY GRADING PHASE.
- SLOPE EROSION CONTROL MATTING SHALL BE INSTALLED FOR TEMPORARY STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER).
- INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.

CONSTRUCTION SEQUENCE:

- BEGIN STORM DRAINAGE, UTILITY AND BUILDING CONSTRUCTION THROUGHOUT SITE.
- WHEN BUILDING CONSTRUCTION IS NEAR COMPLETE, REMOVE AND REPLACE CURB AND GUTTER AS SHOWN ON DEMO. PLAN. INSTALL SIDEWALKS, PLANTERS, ASPHALT PAVING, ETC.
- CONTRACTOR SHALL KEEP SEDIMENT LADEN RUNOFF FROM ENTERING PERIMETER STREETS. ANY SEDIMENT ON PERIMETER STREETS WILL BE CONSIDERED OFF-SITE SEDIMENT.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 14 DAYS OF INACTIVITY.
- SUBMIT DOCUMENTATION REQUIRED UNDER THE SITE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY (NCG10000) TO STORMWATER INSPECTIONS THROUGHOUT THE PROJECT.
- ONCE SITE IS STABILIZED, WITH PERMISSION BY EROSION CONTROL INSPECTOR, REMOVE ALL TEMPORARY E.C. DEVICES, SEED AND MULCH ANY REMAINING AREAS.
- CALL EROSION CONTROL INSPECTOR FOR FINAL INSPECTION. IF APPROVED OBTAIN CERTIFICATE OF COMPLIANCE.



ALL CONSTRUCTION SHALL CONFORM WITH THE LATEST VERSION OF THE CITY OF RALEIGH STANDARDS AND SPECIFICATIONS.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

THE JOHN R. MCADAMS COMPANY, INC.
2805 Meridian Parkway
Durham, North Carolina 27713
Phone: 919-288-5288
Fax: 919-288-5946
www.mcadamsco.com
(800) 733-5946



REVISIONS:

DEVELOPER:
**KANE CONCORD HOTEL
EAST TWO, LLC
11410 COMMON OAKS DRIVE
RALEIGH, NC 27614**

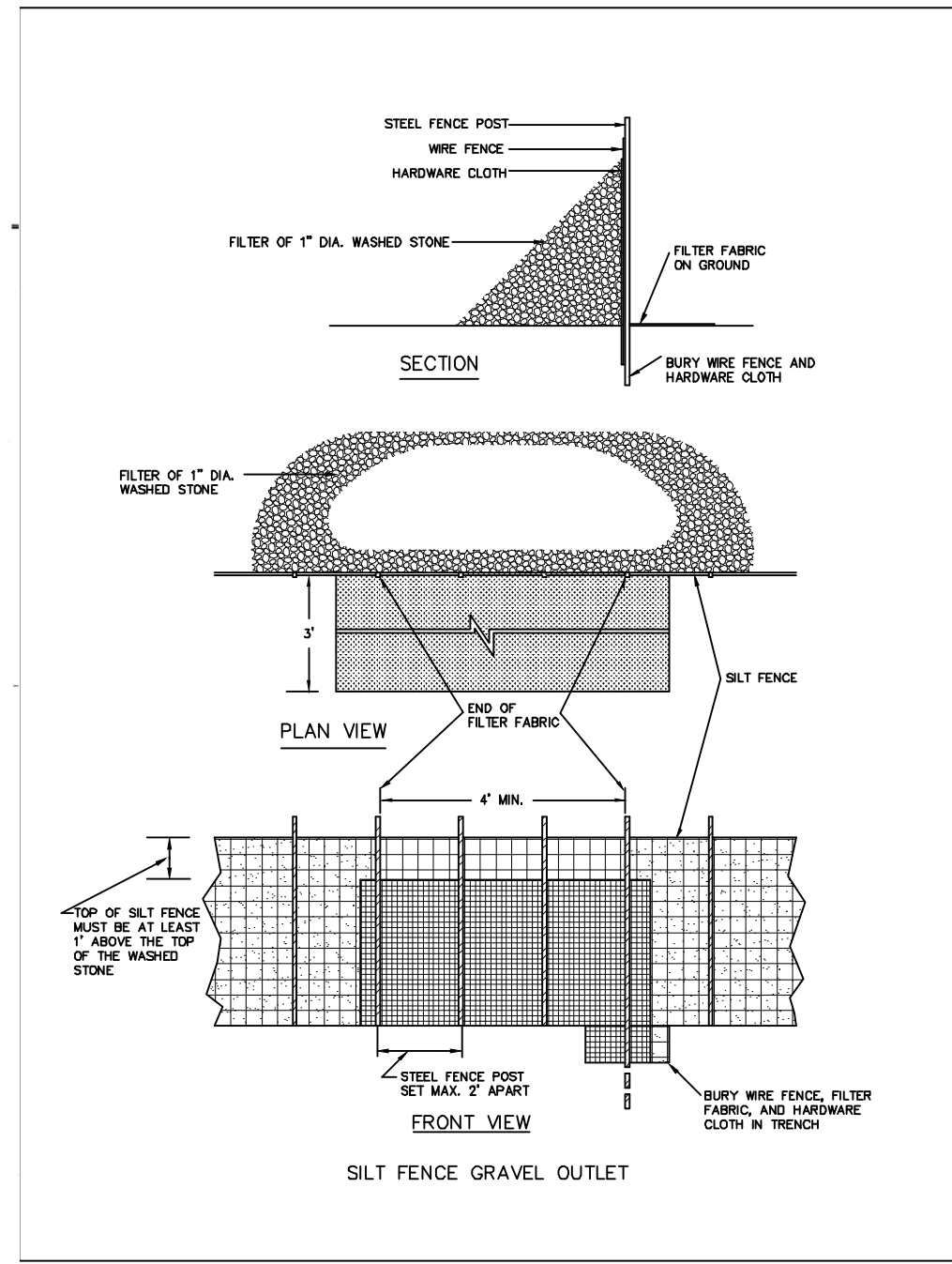
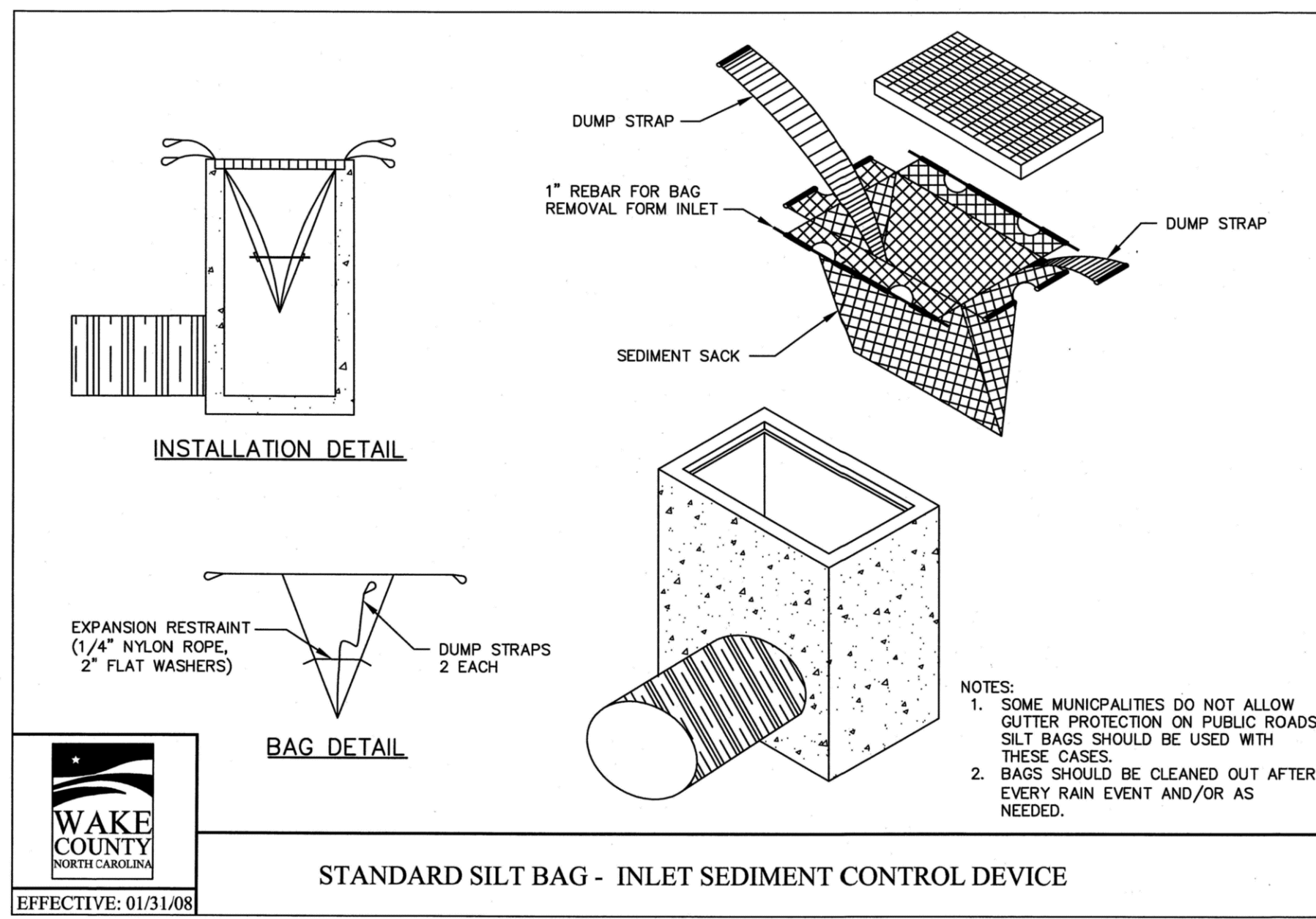
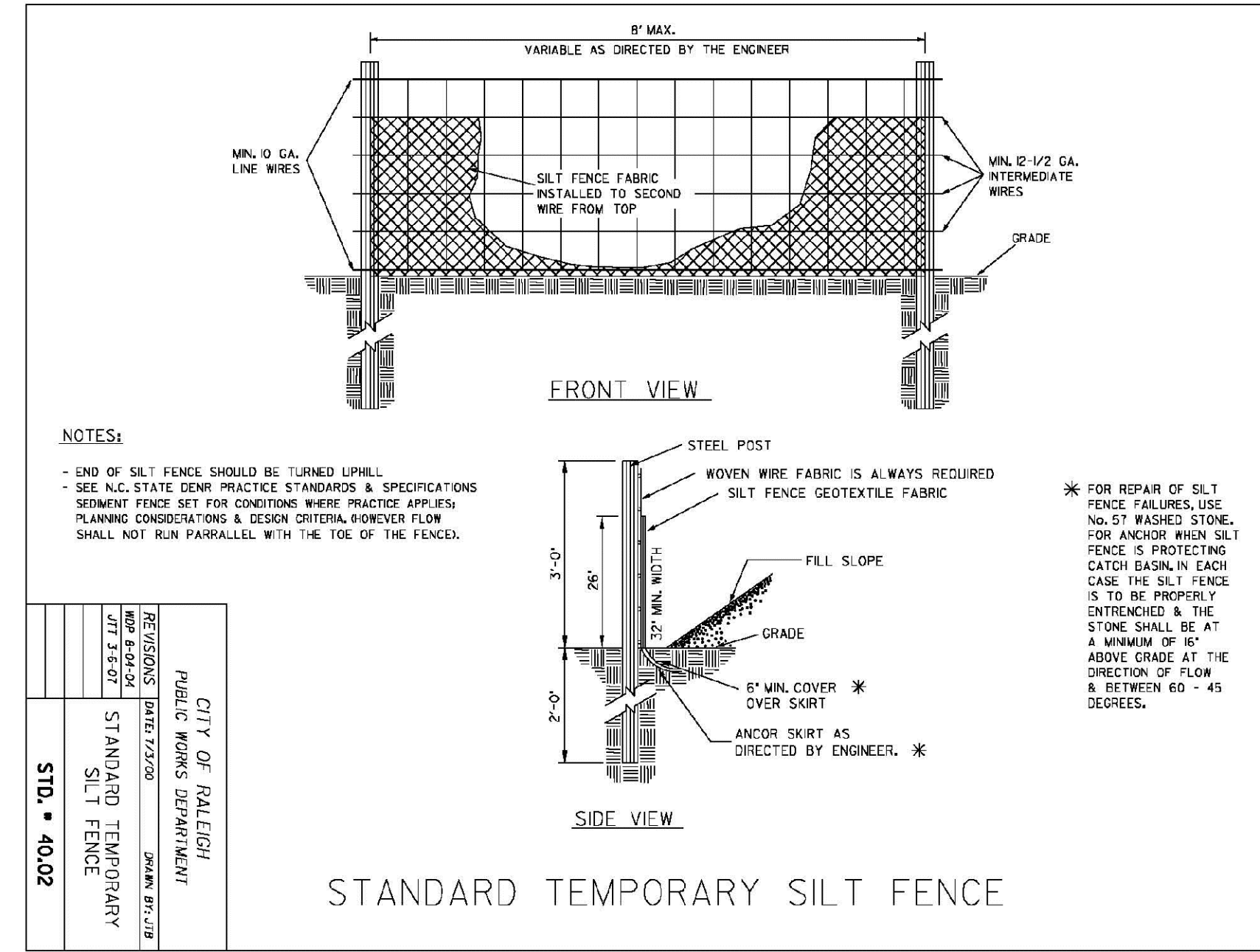
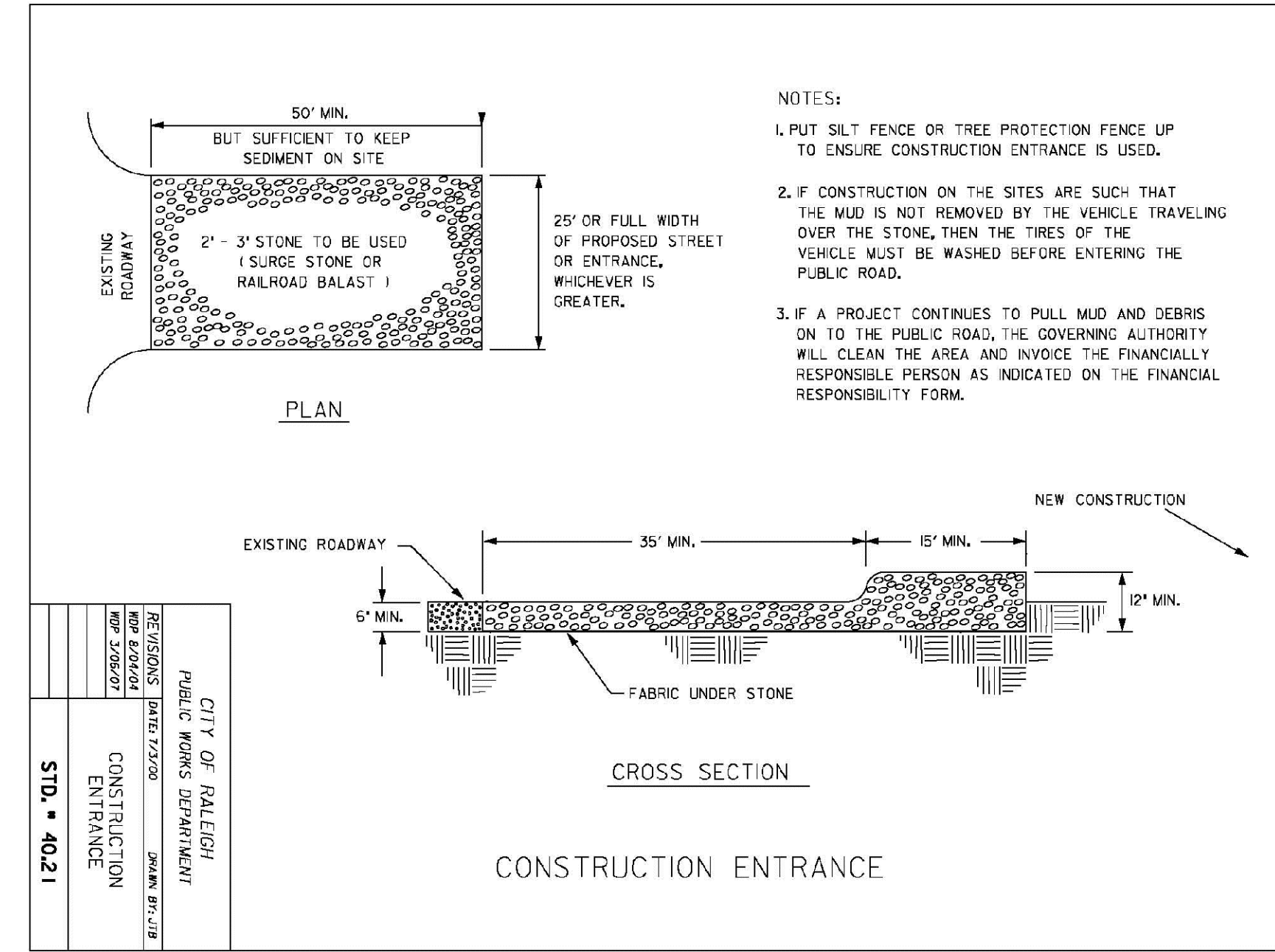
**NORTH HILLS EAST AC MARRIOTT
PARK AT NORTH HILLS STREET
& DARTMOUTH ROAD
RALEIGH, NORTH CAROLINA**

PROJECT NO. DLR-14000
FILENAME: DLR14000-EC2
DESIGNED BY: ARP
DRAWN BY: NDW
SCALE: 1" = 20'
DATE: 07-01-2015
SHEET NO. **EC-2**



EROSION CONTROL PLAN - STAGE 2

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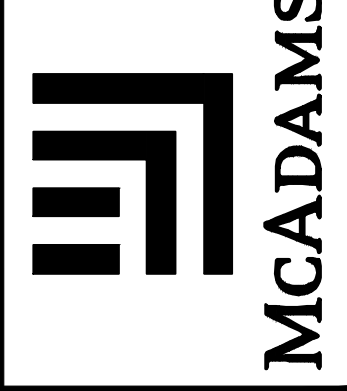


CITY OF RALEIGH

All Construction must be in accordance with all Local, State, and Federal Rules and Regulations

TRANSPORTATION SERVICES	_____
PUBLIC UTILITIES	_____
STORMWATER	_____
PLANNING	_____
FIRE	_____
URBAN FORESTRY	_____

THE JOHN R. MCADAMS COMPANY, INC.
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Durham, North Carolina 27713
Tel: 919-288-8888
(800) 733-5646 - MacAdamsCo.com



REVISIONS:

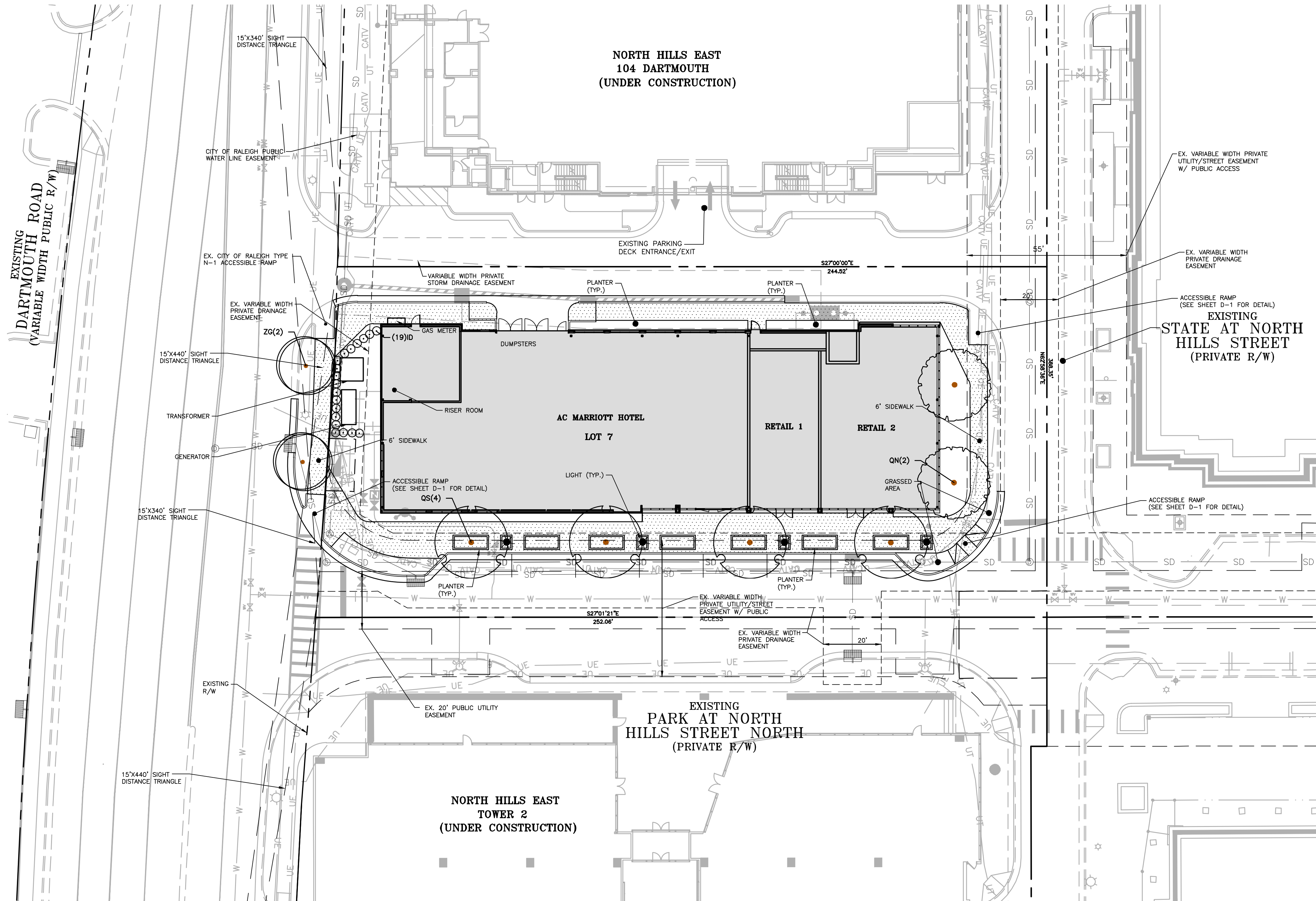
DEVELOPER:
KANE CONCORD HOTEL
EAST TWO, LLC
11410 COMMON OAKS DRIVE
RALEIGH, NC 27614

NORTH HILLS EAST AC MARIOTT
PARK AT NORTH HILLS STREET
& DARTMOUTH ROAD
RALEIGH, NORTH CAROLINA

EROSION CONTROL DETAILS

PROJECT NO.	DLR-14000
FILENAME	DLR14000-EC4
DESIGNED BY	ARP
DRAWN BY	NDW
SCALE	NTS
DATE	07-01-2015
SHEET NO.	EC-4





GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE FOR THE SITE INSPECTION BEFORE LANDSCAPE CONSTRUCTION AND INSTALLATION IN ORDER TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS.
- LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE BEGINNING INSTALLATION. CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE NOTES, SPECIFICATIONS, DRAWINGS OR SITE CONDITIONS PRIOR TO INSTALLATION.
- CONTRACTOR SHALL COMPLETE SOIL TEST IN ALL PLANTING AREAS TO DETERMINE SOIL AMENDMENT REQUIREMENTS. CONTRACTOR SHALL ADJUST PH AND FERTILITY BASED UPON THE SOIL TEST RESULTS. NO ADDITION TO OR PLACEMENT OF SOIL IS TO BE DONE PRIOR TO THE COMPLETION OF A SOIL TEST. TESTING SHALL BE PERFORMED BY A SUITABLE LABORATORY. NO PLANTING SHALL BEGIN UNTIL PROPER ADJUSTMENTS HAVE BEEN MADE. SOIL PH SHOULD BE BETWEEN 5.5 AND 7.5; CONTAINING A MINIMUM OF 4% AND A MAXIMUM 20% ORGANIC MATTER.
- PLANT MATERIALS ARE TO BE GUARANTEED FOR A PERIOD OF 12 MONTHS. PLANT MATERIALS WHICH REMAIN UNHEALTHY WILL BE REPLACED BY THE LANDSCAPE CONTRACTOR BEFORE THE EXPIRATION OF THE GUARANTEE PERIOD OR IMMEDIATELY IF SO DIRECTED BY THE OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT.
- CONTRACTOR TO ENSURE PROPER STABILIZATION OF SLOPES AS REQUIRED.

MATERIALS:

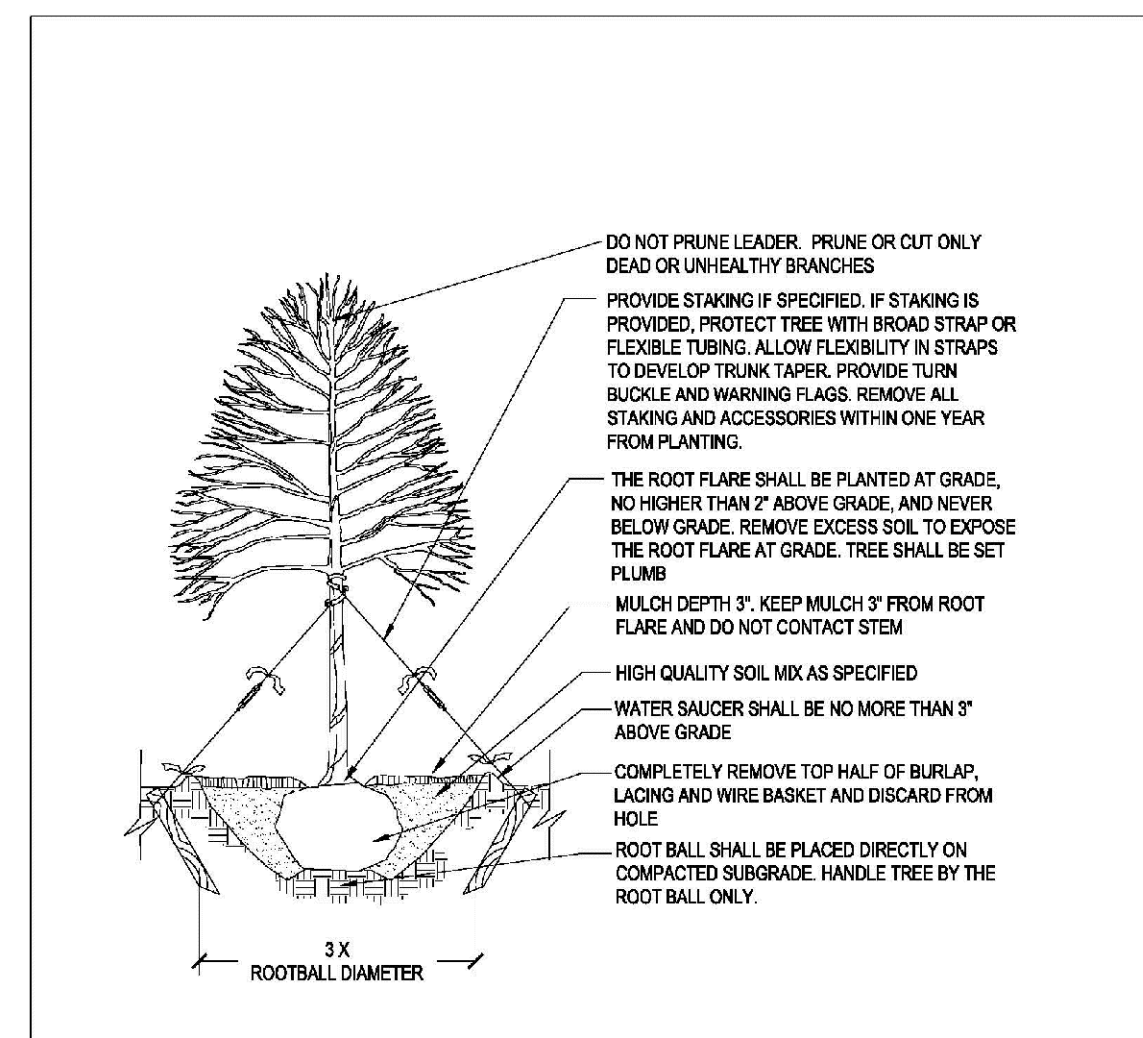
- LANDSCAPE MATERIAL SHALL BE WELL FORMED, VIGOROUS, GROWING SPECIMENS WITH GROWTH TYPICAL OF VARIETIES SPECIFIED AND SHALL BE FREE FROM DAMAGE, INSECTS AND DISEASES. MATERIAL SHALL EQUAL OR SURPASS #1 QUALITY AS DEFINED IN THE CURRENT ISSUE OF "AMERICAN STANDARD FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.
- ALL PLANT MATERIAL IS TO BE CAREFULLY HANDLED BY THE ROOT BALL, NOT THE TRUNK, BRANCHES, AND/OR FOLIAGE OF THE PLANT. MISHANDLED PLANT MATERIAL MAY BE REJECTED BY THE LANDSCAPE ARCHITECT.
- ALL PLANT MATERIAL IS TO BE WELL ROOTED, NOT ROOT BOUND, SUCH THAT THE ROOT BALL REMAINS INTACT THROUGHOUT THE PLANTING PROCESS. REJECT ALL CRACKED ROOT BALLS.

EXECUTION:

- TREES REQUIRING STAKING SHALL BE STAKED AND GUYED WIRED. SEE DETAIL THIS SHEET
- ALL SHRUB AND TREE PITS SHALL BE AMENDED WITH COMPOST. COMPOST SHALL BE APPLICABLE TO THE GEOGRAPHIC AREA OF INSTALLATION PER THE MANUFACTURER'S SPECIFICATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING 2% POSITIVE DRAINAGE IN ALL PLANTING AREAS.
- ALL PLANTING BEDS AND TREE PITS SHALL BE MULCHED WITH A 4" LAYER OF TRIPLE SHREDDED HARDWOOD MULCH NATURAL IN COLOR.
- EXCAVATE EDGES OF ALL PLANTING BEDS TO 2" DEPTH TO FORM A NEAT AND CRISP DEFINITION.
- CONTRACTOR SHALL REMOVE DEBRIS AND FINE GRADE ALL AREAS FOR APPROVAL BY OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT.
- REMOVE GUY WIRES AND STAKES AT END OF GUARANTEE PERIOD.

UTILITIES:

- THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO DIGGING. UTILITIES SHOWN ON PLAN ARE APPROXIMATE. ANY DAMAGE TO SUCH UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.



NOTES:

- CONTRACTOR IS RESPONSIBLE FOR ADEQUATE DRAINAGE OF ALL PLANTING PITS. (POSITIVE DRAINAGE AWAY FROM PIT)
- ADHERE TO STANDARDS IN THE CITY TREE MANUAL
- STREET TREES MUST BE 3" CALIPER AT INSTALLATION WITH A MINIMUM FIRST BRANCH HEIGHT
- PLANTING SEASON OCTOBER - APRIL
- A TREE IMPACT STUDY IS REQUIRED
- ELECTRICAL OUTLETS AND OTHER UTILITIES ARE PROHIBITED IN THE PLANTING AREA IMMEDIATELY SURROUNDING THE TREE.

CITY OF RALEIGH
PARKS, RECREATION AND CULTURAL RESOURCES DEPT
RESOURCES DEPARTMENT URBAN FORESTER
TREES@RALEIGH.GOV
WWW.RALEIGH.NC.GOV

REVISIONS	DATE	BY	NOTED BY

PRCR-03

PLANT SCHEDULE

TREES	CODE	QTY	COMMON NAME	BOTANICAL NAME	CAL	HGT	REMARKS
	QN	2	Nuttall Oak	Quercus nuttallii	3"	10'	
	QS	4	Shumard Red Oak	Quercus shumardii	3"	10'	
	ZG	2	Sawleaf Zelkova	Zelkova serrata 'Green Vase'	3"	10'	To Match Existing
SHRUBS	CODE	QTY	COMMON NAME	BOTANICAL NAME	HGT	OC	REMARKS
	ID	19	Dwarf Burford Holly	Ilex cornuta 'Dwarf Burford'	18"		

LANDSCAPE CALCULATIONS

VEHICULAR SURFACE AREA #1
TOTAL SQUARE FOOTAGE = 9,323 SF
TREES REQUIRED: 5 (1/2000 SF)
TREES PROVIDED: 5

SHRUBS REQUIRED: 19 (1/500 SF)
SHRUBS PROVIDED: 19

STREET TREES
DARTMOUTH ROAD: 80 LF
TREES REQUIRED: 2 (1/40 LF)
TREES PROVIDED: 2

CITY OF RALEIGH

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TRANSPORTATION SERVICES _____

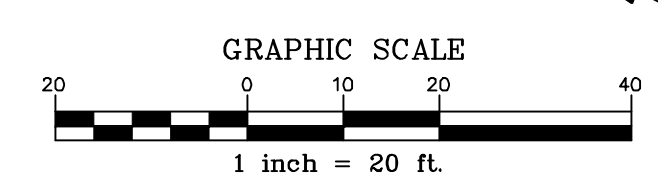
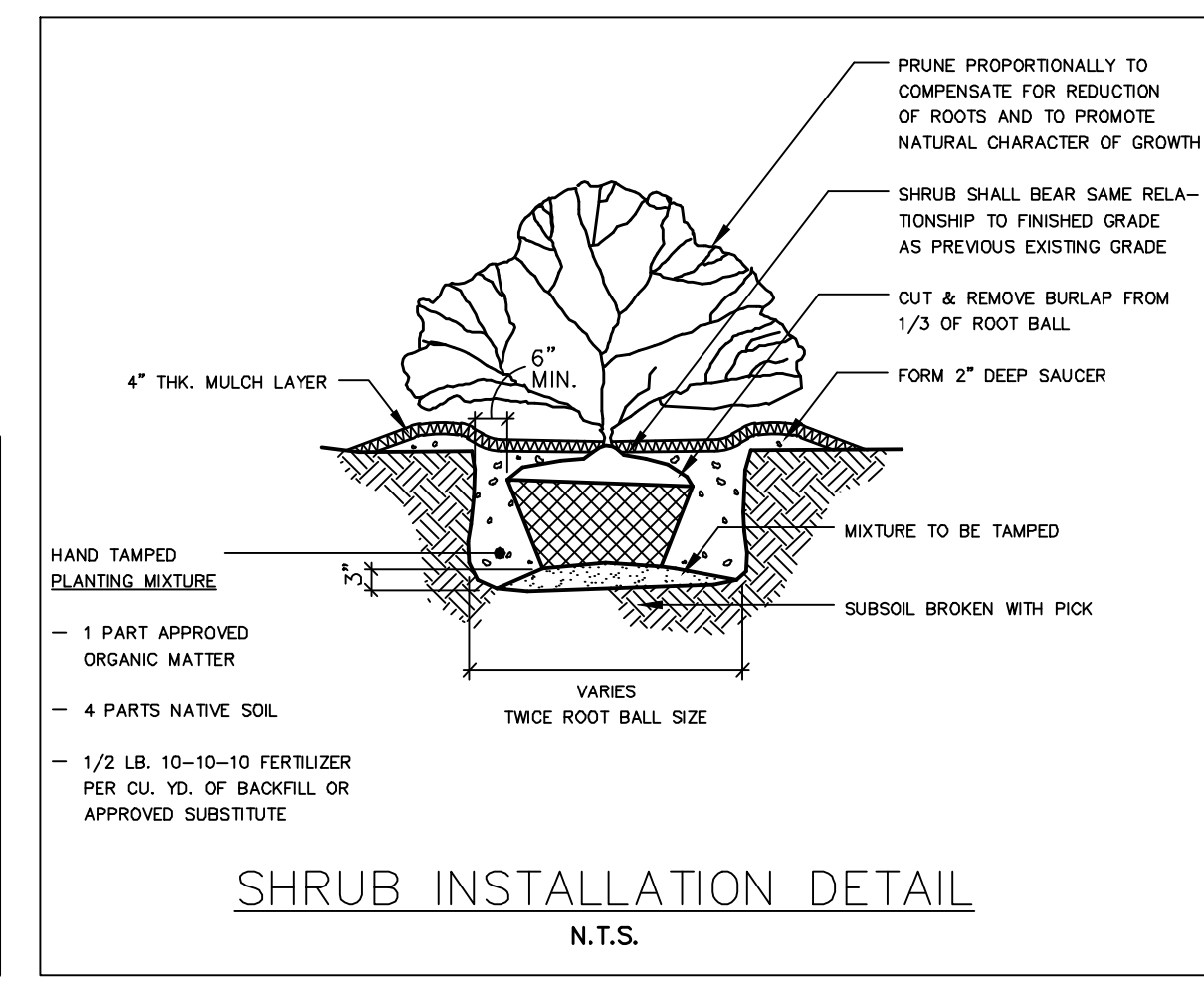
PUBLIC UTILITIES _____

STORMWATER _____

PLANNING _____

FIRE _____

URBAN FORESTRY _____



ALL CONSTRUCTION SHALL CONFORM WITH THE LATEST VERSION OF THE CITY OF RALEIGH AND NCDOT STANDARDS AND SPECIFICATIONS.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

THE JOHN R. MCADAMS COMPANY, INC.
2905 Meridian Parkway
Durham, North Carolina 27713
Phone No.: 919-286-5646
Fax No.: 919-286-5646
(800) 733-5646



REVISIONS:

NO.	DATE	DESCRIPTION

DEVELOPER:
KANE CONCORD HOTEL
EAST TWO, LLC
11410 COMMON OAKS DRIVE
RALEIGH, NC 27614

**NORTH HILLS EAST AC MARRIOTT
PARK AT NORTH HILLS STREET
& DARTMOUTH ROAD**
RALEIGH, NORTH CAROLINA

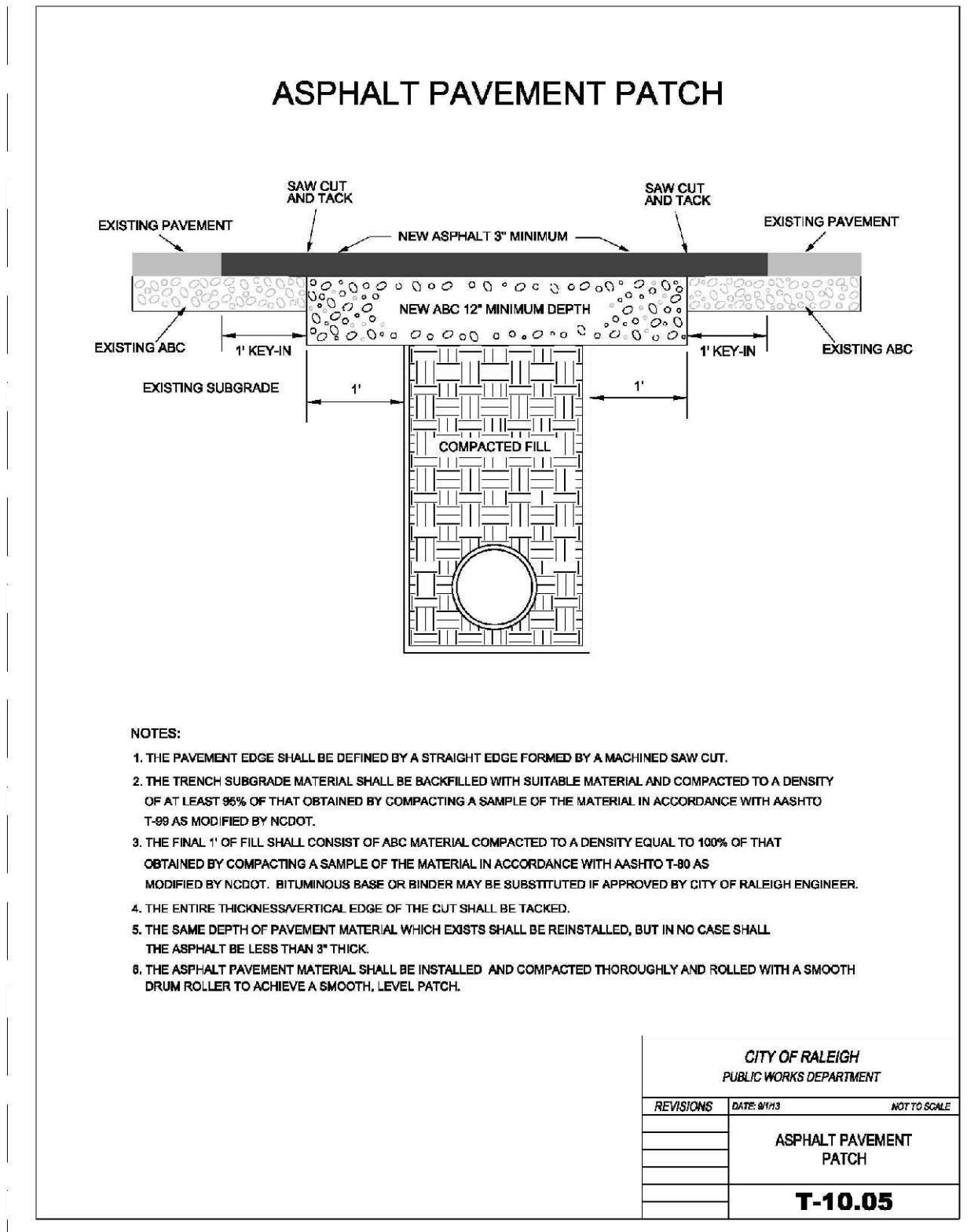
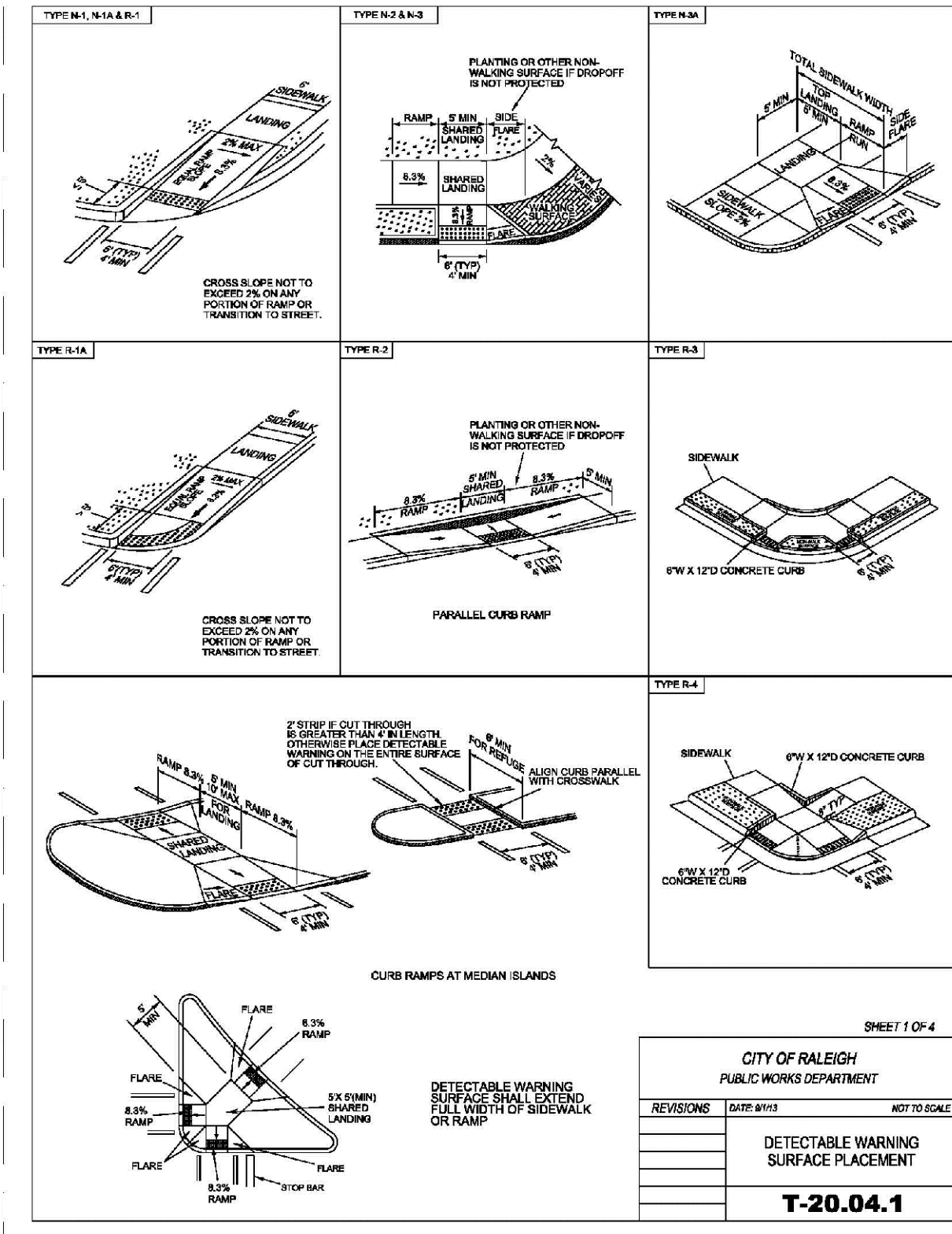
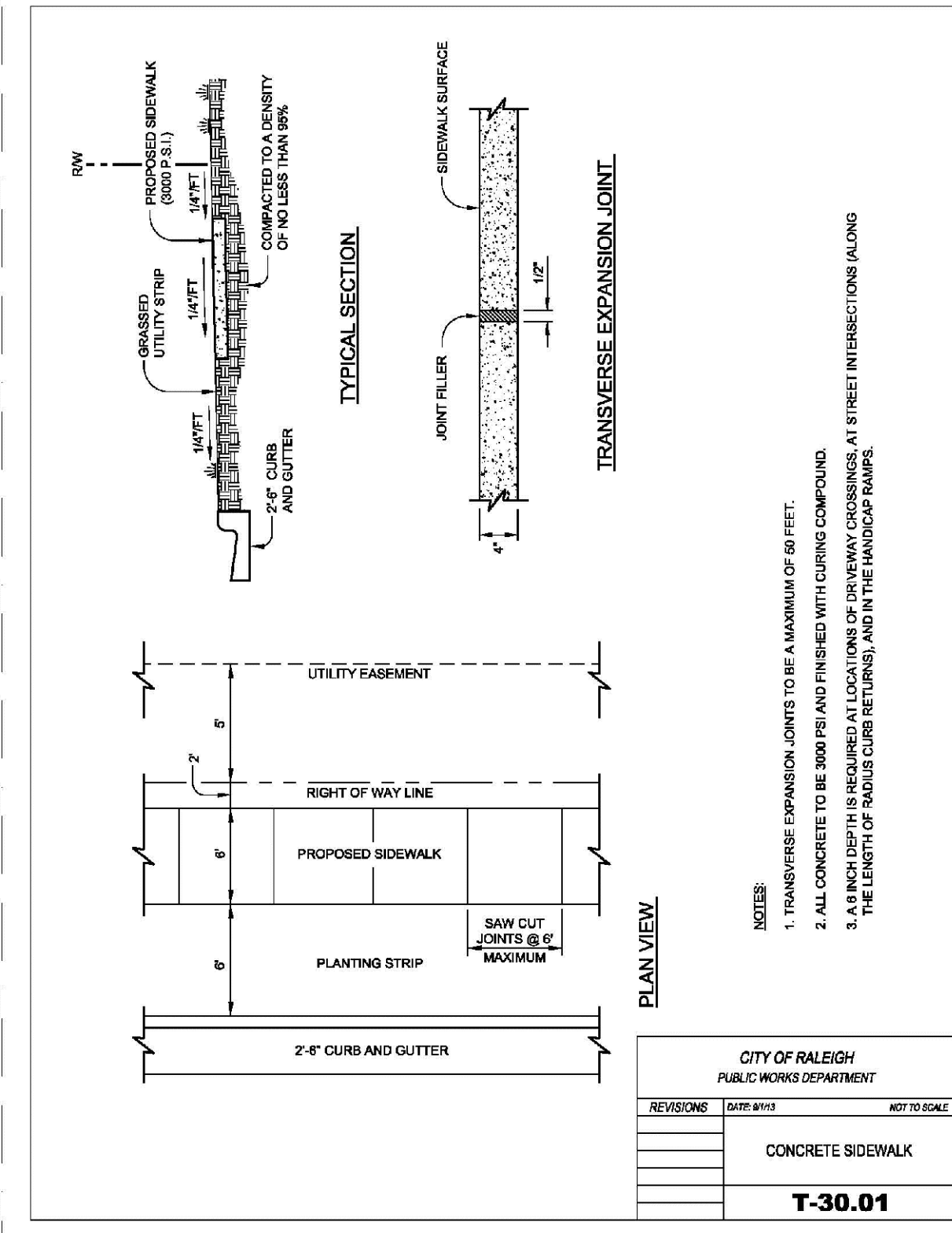
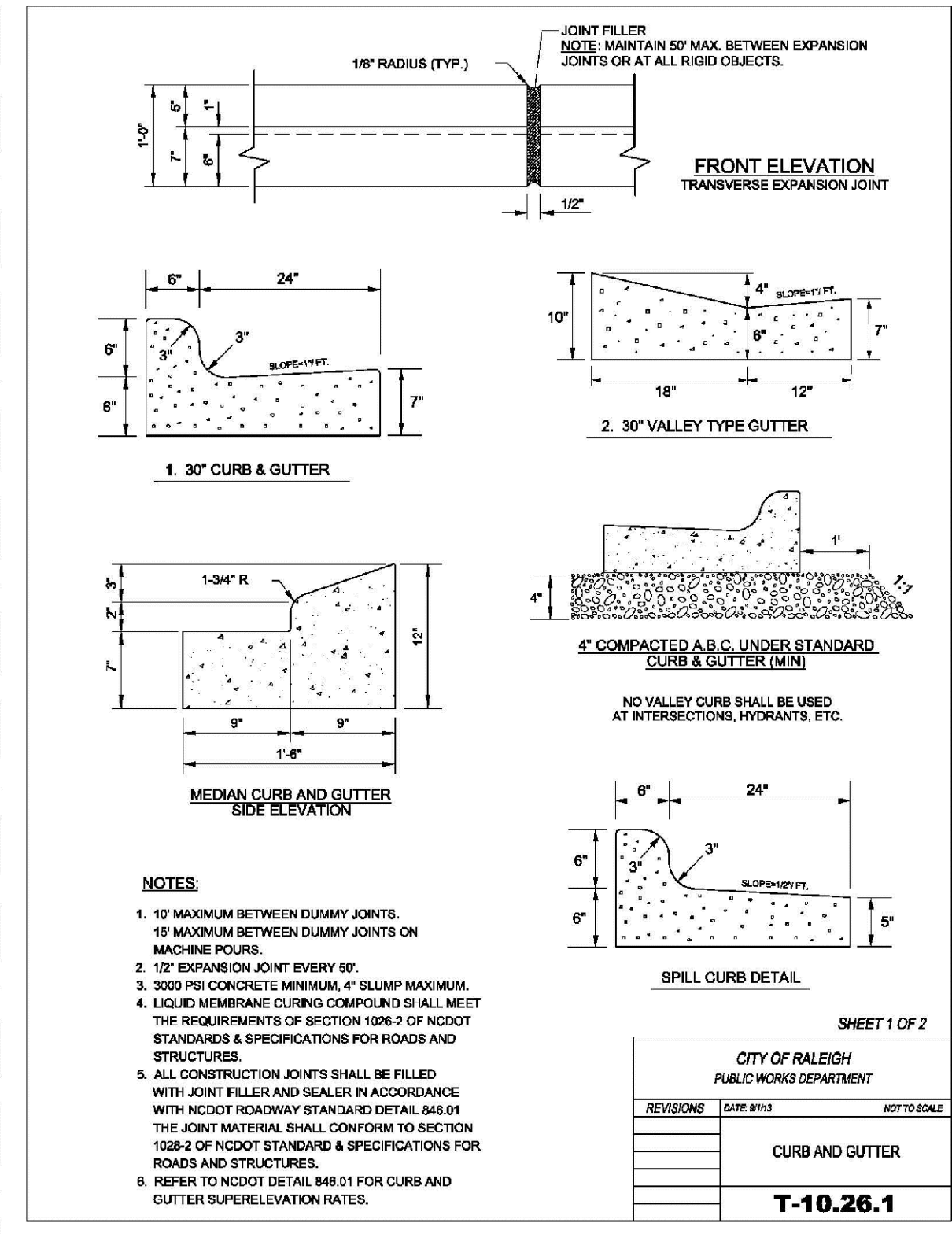
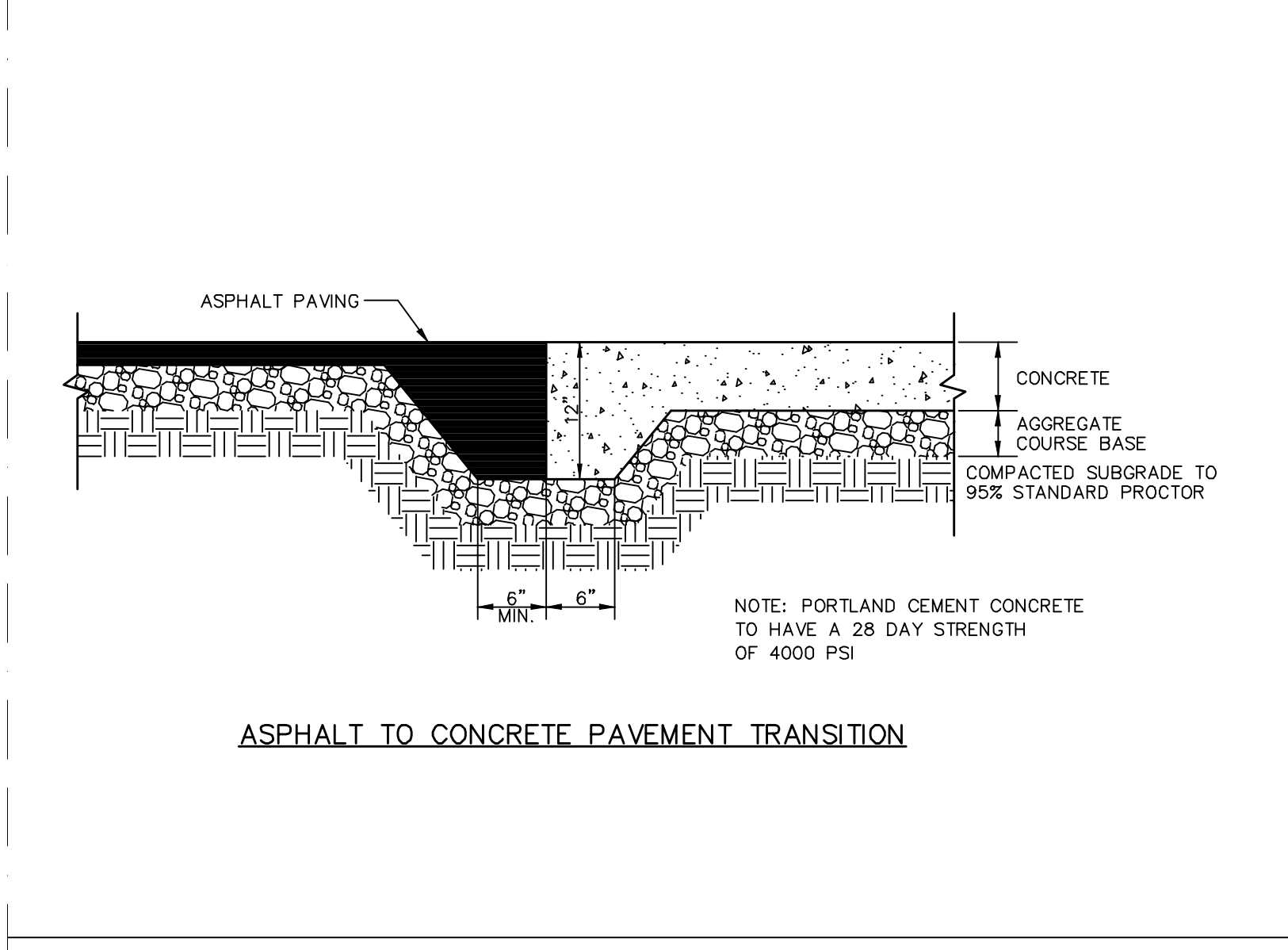
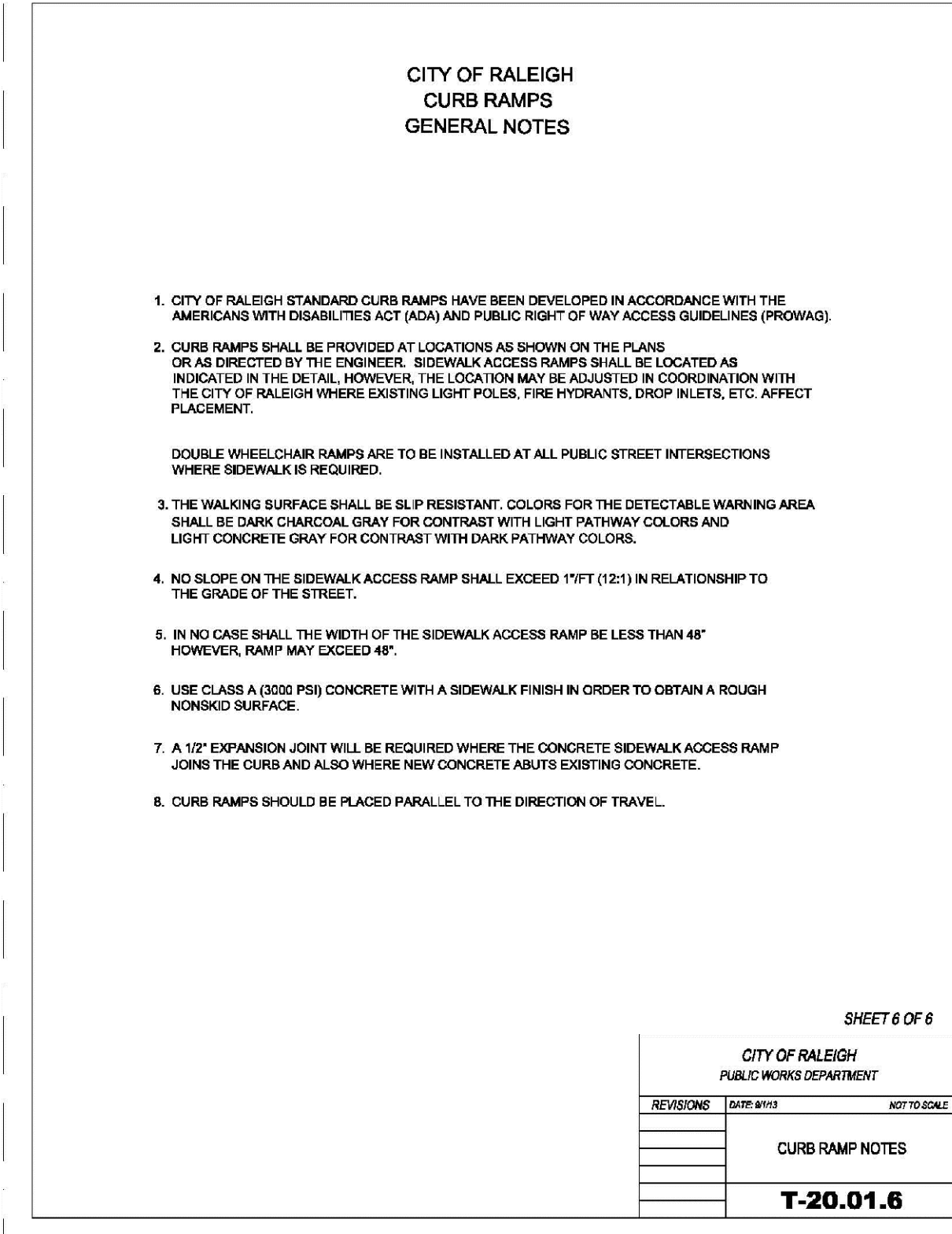
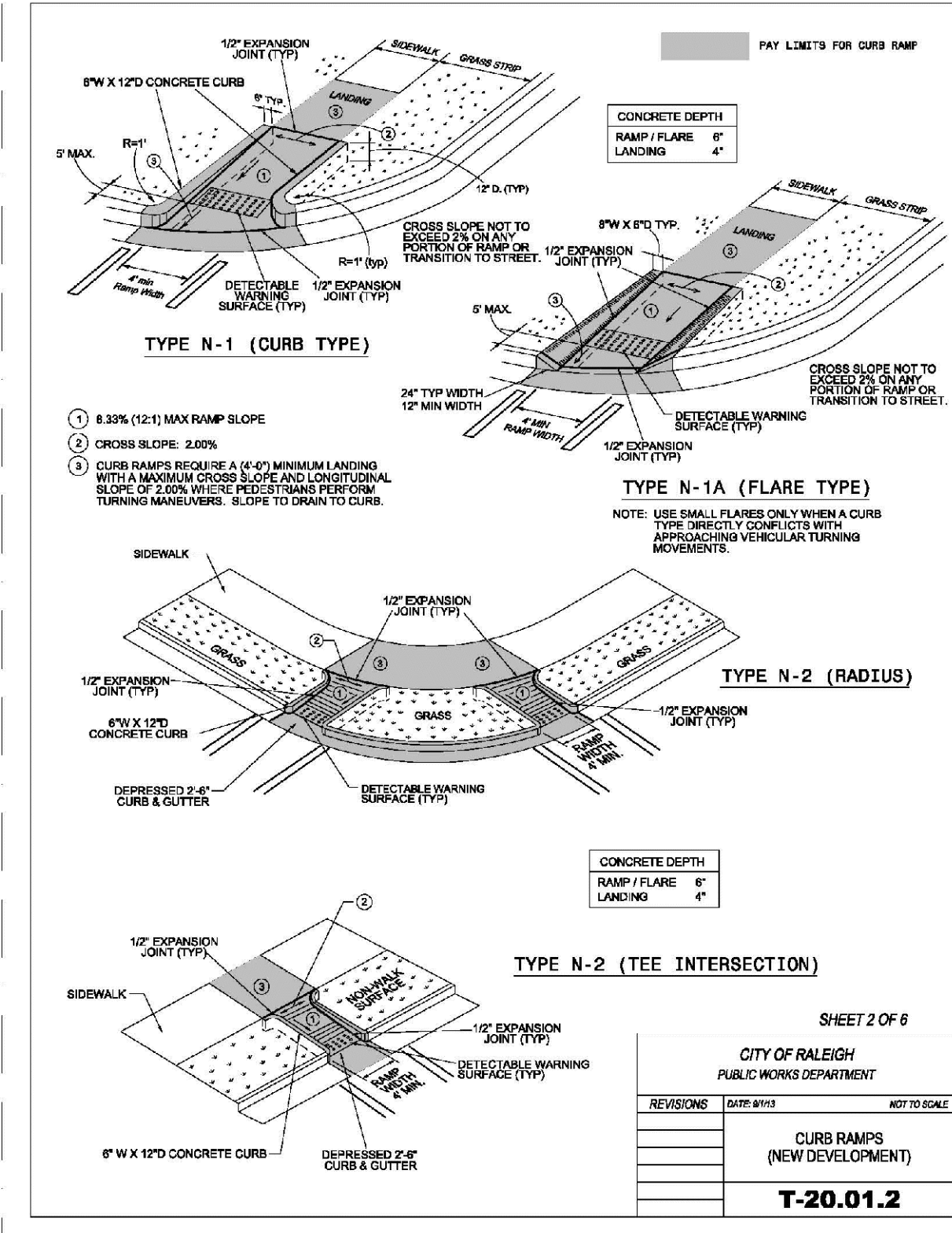
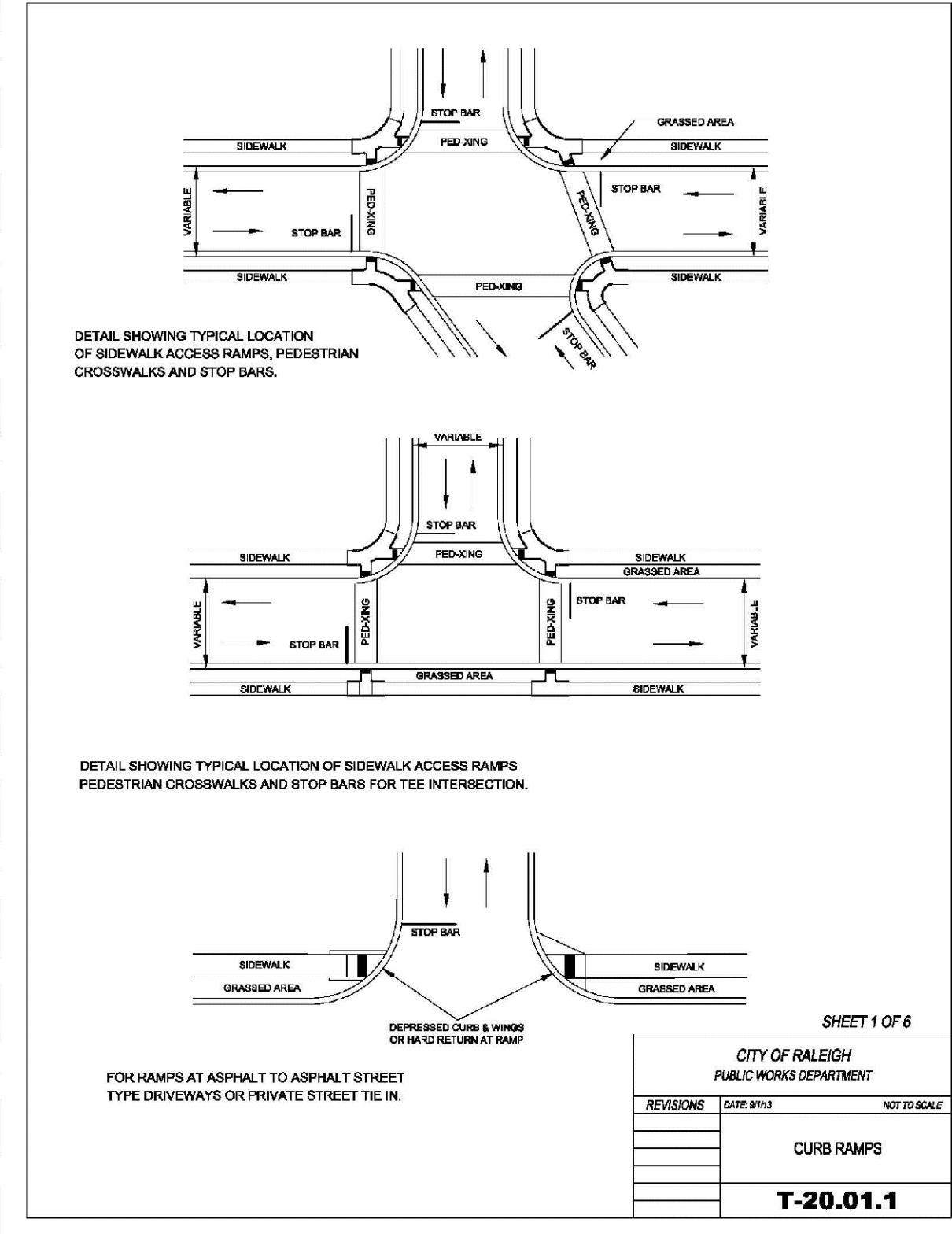
LANDSCAPE PLAN

PROJECT NO: DLR-14000
FILENAME: DLR14000-LS1
DESIGNED BY: ARP
DRAWN BY: NDW
SCALE: 1" = 20'
DATE: 07-01-2015
SHEET NO.

LS-1



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CITY OF RALEIGH

All Construction must be in accordance with all Local, State, and Federal Rules and Regulations

TRANSPORTATION SERVICES _____

PUBLIC UTILITIES _____

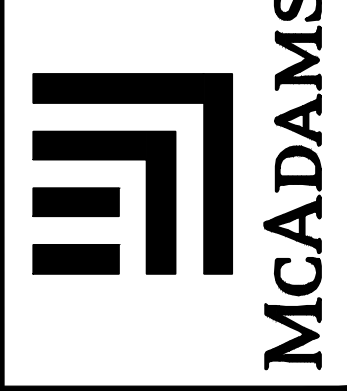
STORMWATER _____

PLANNING _____

FIRE _____

URBAN FORESTRY _____

THE JOHN R. MCADAMS COMPANY, INC.
2905 Meridian Parkway
Durham, North Carolina 27713
Phone No.: 919-428-8888
(800) 733-5646 - MacAdamsCo.com



REVISIONS:

NO.	DATE	DESCRIPTION

DEVELOPER:
KANE CONCORD HOTEL
EAST TWO, LLC
11410 COMMON OAKS DRIVE
RALEIGH, NC 27614

NORTH HILLS EAST AC MARIOTT
PARK AT NORTH HILLS STREET
& DARTMOUTH ROAD
RALEIGH, NORTH CAROLINA

SITE DETAILS

PROJECT NO: DLR-14000

FILENAME: DLR14000-01

DESIGNED BY: ARP

DRAWN BY: NDW

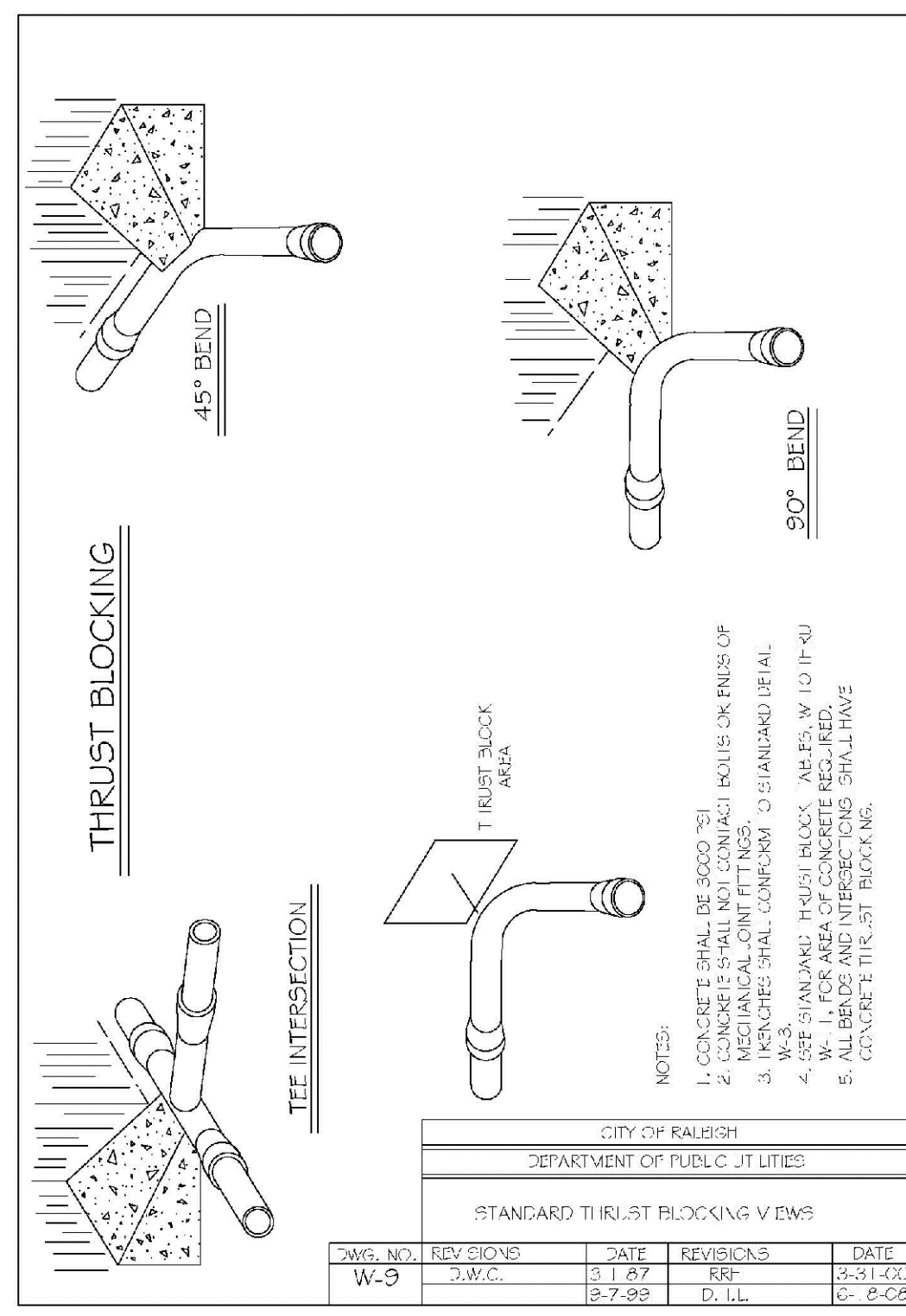
SCALE: NTS

DATE: 07-01-2015

SHEET NO. **D-1**



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REACTION BEARING AREAS FOR HORIZONTAL WATER PIPE BENDS
 BASED ON TEST RESULTS OF 200 P.S.I.

ALL AREAS GIVEN IN SQUARE FEET

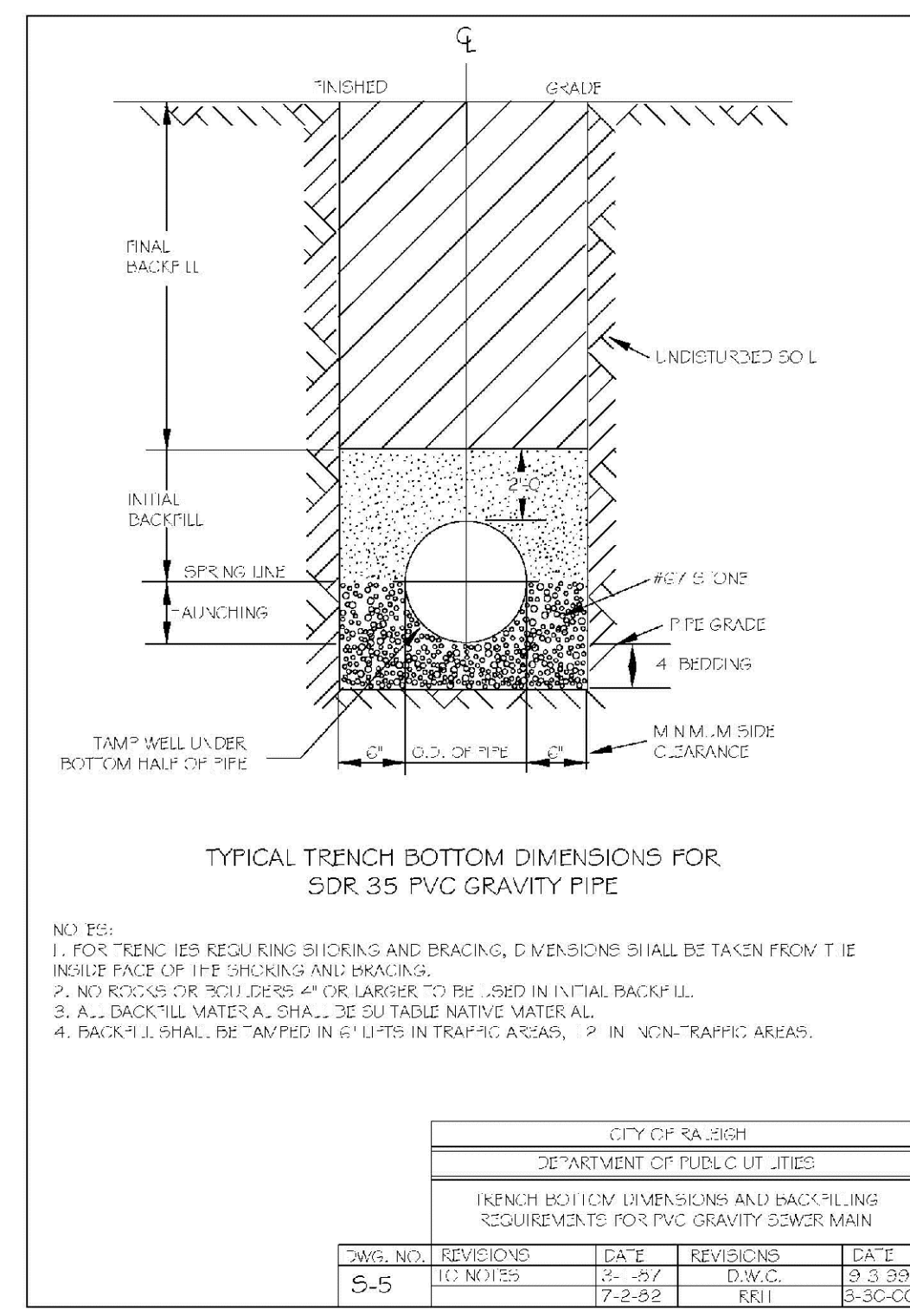
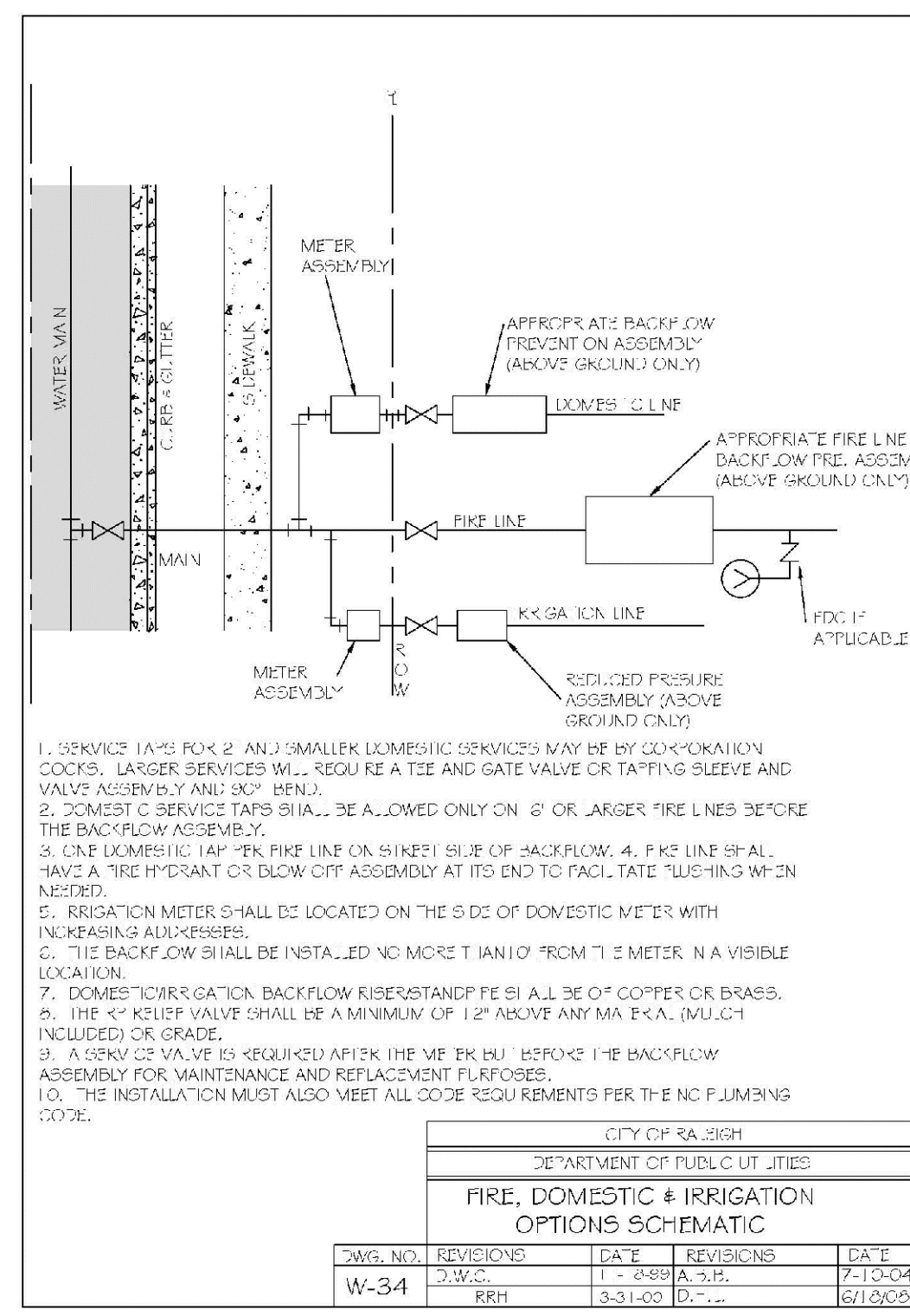
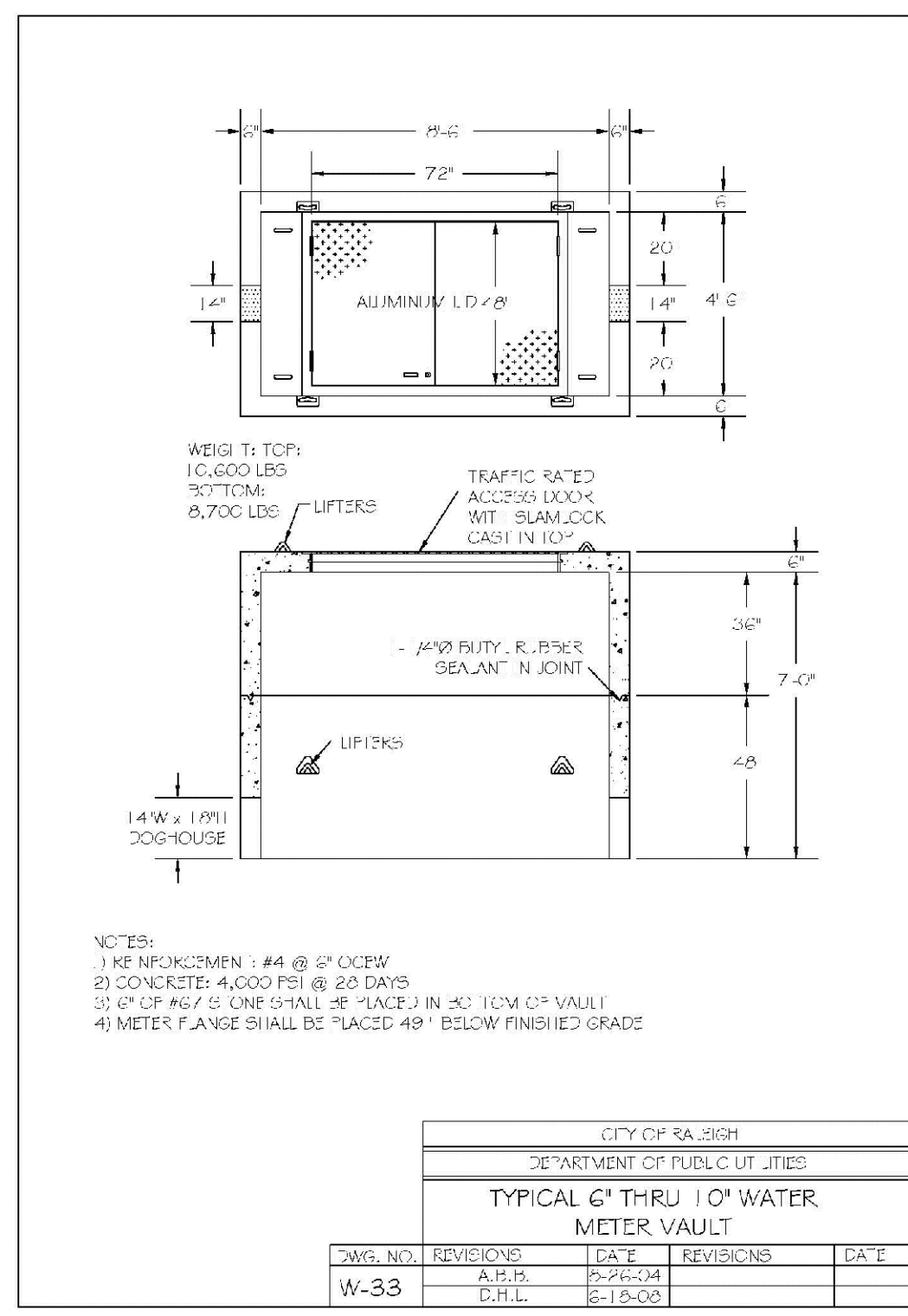
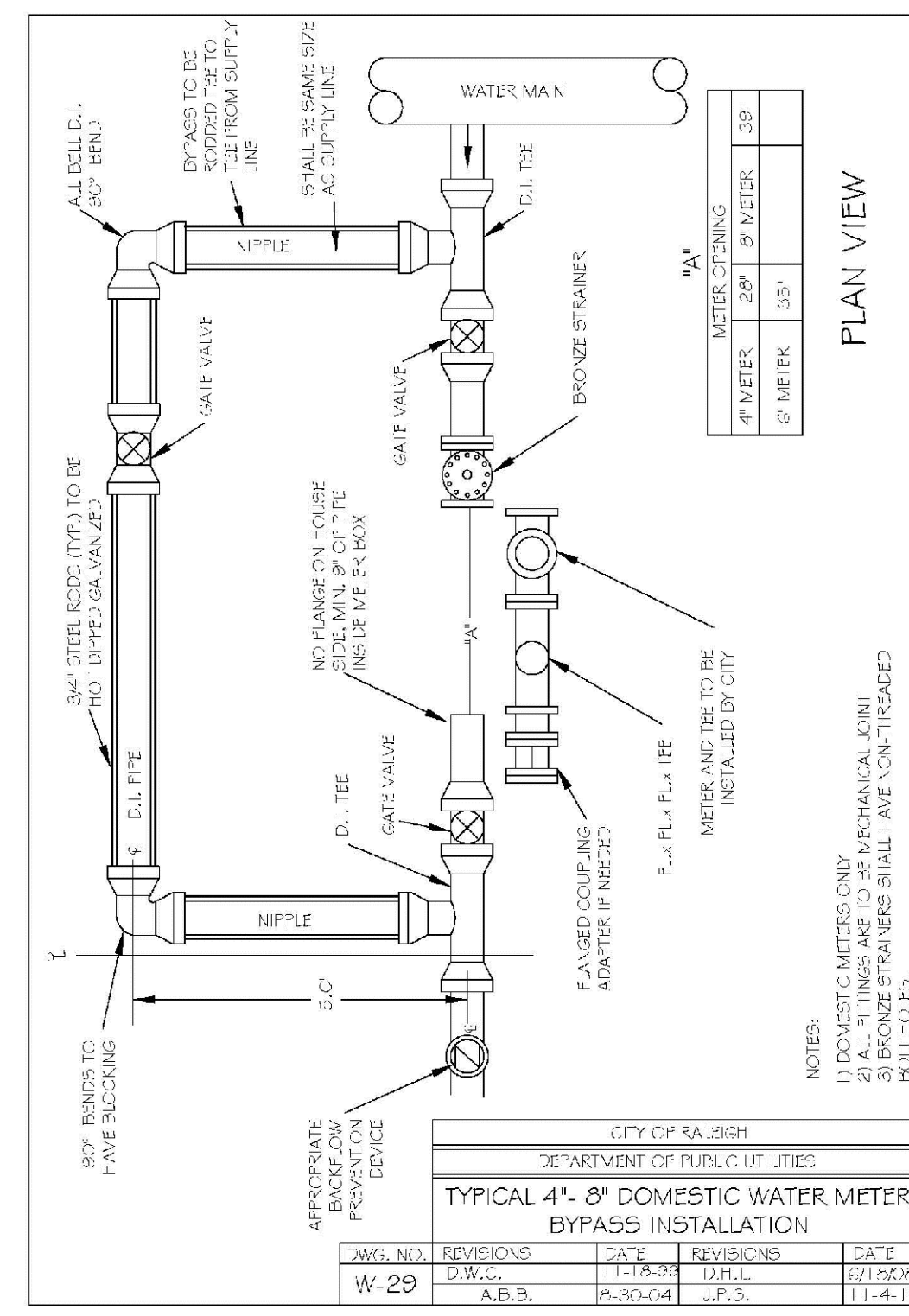
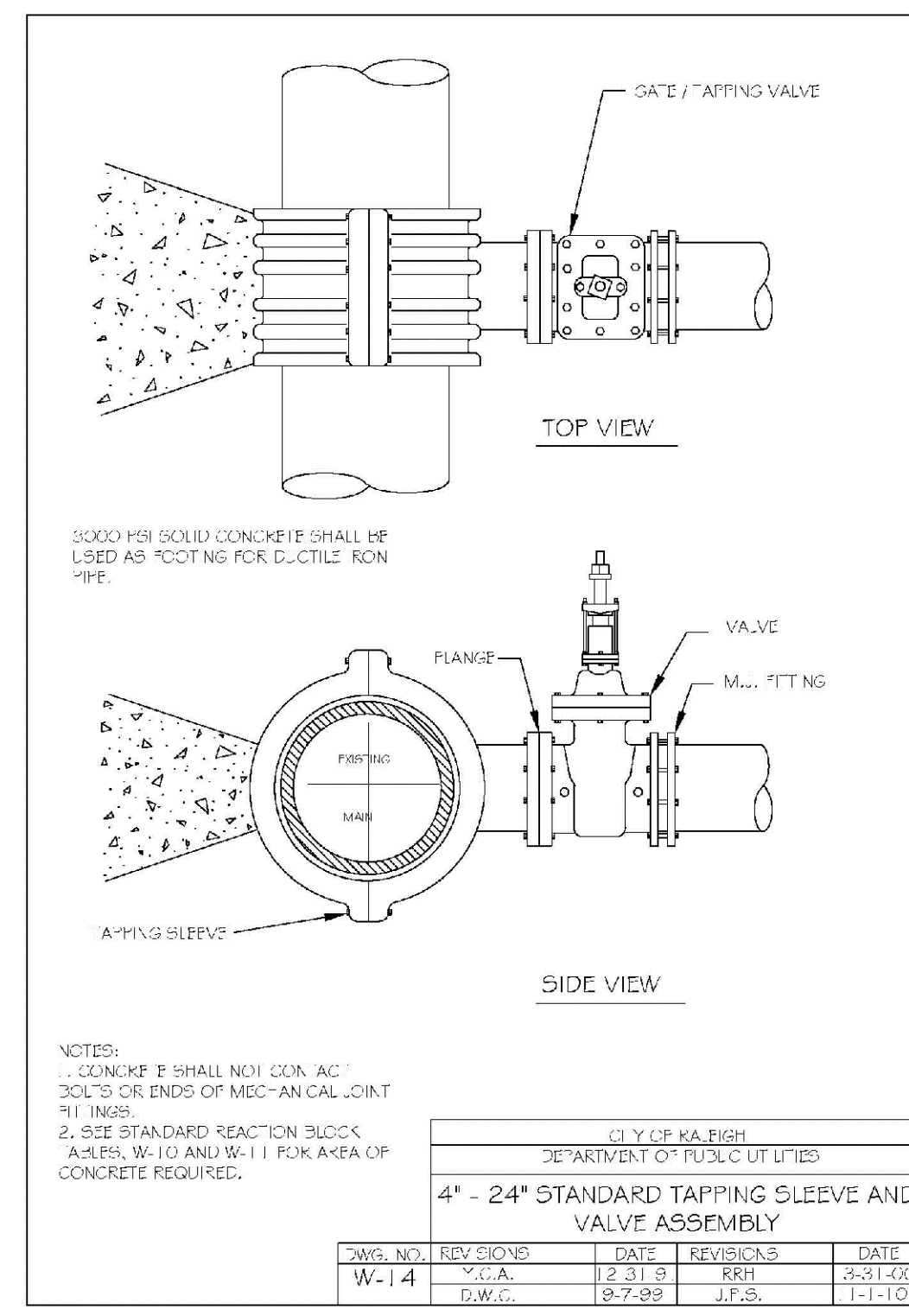
BEND AND DEGREE OF BEND	STIFF THRUFAST IN PLUMB		STIFF THRUFAST IN 45°		STIFF THRUFAST IN 90°	
	1" DIA. 2000 PSI	1" DIA. 4000 PSI	1" DIA. 2000 PSI	1" DIA. 4000 PSI	1" DIA. 2000 PSI	1" DIA. 4000 PSI
11 1/4°	1.109	1	1	1	1	1
22 1/2°	2.207	1	2	2	1	1
45°	4.328	2	3	3	1	1
90°	7.936	2	4	5	1	1
FLUG	5.655	2	2	4	1	1
16"						
11 1/4°	1.109	1	1	1	1	1
22 1/2°	3.922	1	2	3	1	1
45°	7.824	2	4	5	1	1
90°	15.648	4	8	10	2	2
FLUG	10.053	3	5	6	2	3
16"						
11 1/4°	4.433	3	3	3	1	1
22 1/2°	8.826	3	5	6	2	2
45°	17.312	3	9	11	3	3
90°	33.983	3	16	19	4	4
FLUG	22.639	3	12	14	3	3
16"						
11 1/4°	7.88	2	4	5	1	1
22 1/2°	15.691	4	8	10	2	2
45°	30.779	8	16	19	4	4
90°	56.561	15	29	35	8	8
FLUG	40.23	10	20	25	5	5

REACTION BEARING AREAS ARE IN SQUARE FEET MEASURED IN A VERTICAL PLANE IN THE TRENCH SIDE AT AN ANGLE OF 90° TO THE THRUST VECTOR.

USE 6" DIA. REBAR VALUES FOR HYDRANT FOR ADDITIONAL SAFETY FACTOR.

CITY OF RALEIGH
 DEPARTMENT OF PUBLIC UTILITIES
 THRUST BLOCKING DESIGN QUANTITY TABLE

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-10	3-W.C.	3-23-09	RRH	3-31-07



CITY OF RALEIGH
 DEPARTMENT OF PUBLIC UTILITIES
 TYPICAL 6\"/>

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-33	3-W.C.	9-21-09	D.H.L.	8-1-09

CITY OF RALEIGH
 DEPARTMENT OF PUBLIC UTILITIES
 FIRE, DOMESTIC & IRRIGATION OPTIONS SCHEMATIC

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-34	3-W.C.	11-19-09	D.H.L.	11-19-09
		3-31-09	D.L.L.	3-31-09

CITY OF RALEIGH
 DEPARTMENT OF PUBLIC UTILITIES
 TRENCH BOTTOM DIMENSIONS AND BACKFILL REQUIREMENTS FOR PVC GRAVITY SEWER MAIN

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-5	10-MODS	6-2-07	D.W.C.	9-3-09
		7-2-02	RRH	9-30-00

THE JOHN R. MCADAMS COMPANY, INC.
 2805 Meridian Parkway
 Durham, North Carolina 27713
 Phone: 919-488-0288
 Fax: 919-488-0288
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MCADAMS

REVISIONS:

DEVELOPER:
KANE CONCORD HOTEL EAST TWO, LLC
 11410 COMMON OAKS DRIVE
 RALEIGH, NC 27614

NORTH HILLS EAST AC MARRIOTT PARK AT NORTH HILLS STREET & DARTMOUTH ROAD
 RALEIGH, NORTH CAROLINA
 UTILITY AND STORM DRAINAGE DETAILS

CITY OF RALEIGH
 All Construction must be in accordance with all Local, State, and Federal Rules and Regulations

TRANSPORTATION SERVICES _____
 PUBLIC UTILITIES _____
 STORMWATER _____
 PLANNING _____
 FIRE _____
 URBAN FORESTRY _____

PROJECT NO. DLR-14000
 FILENAME: DLR14000-01
 DESIGNED BY: ARP
 DRAWN BY: NDW
 SCALE: NTS
 DATE: 07-01-2015
 SHEET NO. D-2

McADAMS

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

7-06

ENGLISH STANDARD DRAWING FOR
CONCRETE CATCH BASIN
12" THRU 54" PIPE

GENERAL NOTES:
USE CLASS "B" CONCRETE THROUGHOUT.
PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOMELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.
FOR 8'-0" IN HEIGHT OR LESS USE 6" WALLS AND BOTTOM SLAB. OVER 8'-0" TO 16'-0" IN HEIGHT USE 8" WALLS AND BOTTOM SLAB. ADJUST QUANTITIES ACCORDINGLY.
CONSTRUCT WITH PIPE CROWNS MATCHING.
CHAMFER ALL EXPOSED CORNERS 1".
DRAWING NOT TO SCALE.

DIMENSIONS OF BOX & PIPE		COVER		CU. YDS. CONC. IN BOX		DEDUCTIONS	
PIPE	SPAN	WIDTH	MIN. HEIGHT	NO. LENGTH	NO. LENGTH	NO. LENGTH	ONE PIPE
12"	3'-0"	2'-2"	2'-0"	2'-9"	2'-9"	0.235	0.772
15"	3'-0"	2'-2"	2'-0"	3'-0"	3'-0"	0.235	0.829
18"	3'-0"	2'-2"	2'-0"	3'-3"	3'-3"	0.235	0.887
24"	3'-0"	2'-2"	2'-0"	3'-9"	3'-9"	0.235	1.001
30"	3'-0"	2'-2"	2'-0"	4'-3"	4'-3"	0.125	0.921
36"	3'-0"	2'-2"	2'-0"	4'-9"	4'-9"	0.161	0.958
42"	3'-0"	2'-2"	2'-0"	5'-3"	5'-3"	0.112	0.918
48"	3'-0"	2'-2"	2'-0"	5'-9"	5'-9"	0.145	0.952
54"	3'-0"	2'-2"	2'-0"	6'-3"	6'-3"	0.180	0.987

SHEET 1 OF 2
840.02

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

7-06

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FOR 8'-0" IN HEIGHT OR LESS USE 6" WALLS AND BOTTOM SLAB. OVER 8'-0" TO 16'-0" IN HEIGHT USE 8" WALLS AND BOTTOM SLAB. ADJUST QUANTITIES ACCORDINGLY.
CONSTRUCT WITH PIPE CROWNS MATCHING.
CHAMFER ALL EXPOSED CORNERS 1".
DRAWING NOT TO SCALE.

DIMENSIONS OF BOX & PIPE		COVER		CU. YDS. CONC. IN BOX		DEDUCTIONS	
PIPE	SPAN	WIDTH	MIN. HEIGHT	NO. LENGTH	NO. LENGTH	NO. LENGTH	ONE PIPE
12"	3'-0"	2'-2"	2'-0"	2'-9"	2'-9"	0.235	0.772
15"	3'-0"	2'-2"	2'-0"	3'-0"	3'-0"	0.235	0.829
18"	3'-0"	2'-2"	2'-0"	3'-3"	3'-3"	0.235	0.887
24"	3'-0"	2'-2"	2'-0"	3'-9"	3'-9"	0.235	1.001
30"	3'-0"	2'-2"	2'-0"	4'-3"	4'-3"	0.125	0.921
36"	3'-0"	2'-2"	2'-0"	4'-9"	4'-9"	0.161	0.958
42"	3'-0"	2'-2"	2'-0"	5'-3"	5'-3"	0.112	0.918
48"	3'-0"	2'-2"	2'-0"	5'-9"	5'-9"	0.145	0.952
54"	3'-0"	2'-2"	2'-0"	6'-3"	6'-3"	0.180	0.987

SHEET 2 OF 2
840.02

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

7-06

ENGLISH STANDARD DRAWING FOR
FRAME, GRATES, AND HOOD
FOR USE ON STANDARD CATCH BASIN

NOTE: USE TYPE "E", "F" AND "G" GRATE UNLESS OTHERWISE NOTED.

ALIGN FRAME WITH INSIDE EDGE OF WALL TO ALLOW FOR VERTICAL ADJUSTMENT FOR WALL SECTION.

SHEET 1 OF 2
840.03

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

7-06

METRIC STANDARD DRAWING FOR
FRAME, GRATES AND HOOD
FOR USE ON STANDARD CATCH BASIN

Note: This drawing is dimensioned in millimeters unless otherwise depicted within the drawing.

SHEET 2 OF 2
840.03

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

7-06

ENGLISH STANDARD DRAWING FOR
BRICK DROP INLET
12" THRU 30" PIPE

GENERAL NOTES:
MORTAR JOINTS 1/2" +/- 1/8" THICK.
USE CLASS "B" CONCRETE THROUGHOUT.
USE FORMS FOR CONSTRUCTION OF THE BOTTOM SLAB.
USE #4 BAR DOMELS AT 12" CENTERS.
DEDUCT FOR PIPE(S) FROM TOTAL CU. YDS. OF BRICK MASONRY.
PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
USE #4 BAR DOMELS AT 12" CENTERS.
USE BRICK OR CONCRETE BLOCK WHICH COMPLIES WITH THE REQUIREMENTS OF SECTION 840 OF THE STANDARD SPECIFICATIONS.
IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
FOR 8'-0" IN HEIGHT OR LESS, USE 6" WALL. OVER 8'-0" IN HEIGHT, USE 12" WALL TO 6'-0" FROM TOP OF WALL AND 8" WALL FOR THE REMAINING 6'-0". QUANTITIES TO BE ADJUSTED ACCORDINGLY.
CONSTRUCT WITH PIPE CROWNS MATCHING.
DO NOT USE BRICK MASONRY DROP INLET IN LOCATIONS SUBJECT TO TRAFFIC.
CHAMFER ALL EXPOSED CORNERS 1".
DRAWING NOT TO SCALE.

DIMENSIONS OF BOX & PIPE		CUBIC YARDS CONCRETE		CUBIC YARDS BRICK MASONRY		DEDUCTIONS FOR ONE PIPE	
PIPE	SPAN	WIDTH	MIN. HEIGHT	BOTTOM SLAB	WALL PER FOOT HT.	TOTAL BRICK MIN. HEIGHT	C.S. R.C.
12"	3'-0"	2'-0"	2'-0"	0.268	0.313	0.529	0.020 0.032
15"	3'-0"	2'-0"	2'-0"	0.268	0.313	0.600	0.031 0.047
18"	3'-0"	2'-0"	2'-0"	0.268	0.313	0.678	0.044 0.065
24"	3'-0"	2'-0"	2'-0"	0.268	0.313	0.936	0.078 0.113
30"	3'-0"	2'-0"	2'-0"	0.268	0.313	0.991	0.122 0.170

SHEET 1 OF 1
840.15

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

7-06

METRIC STANDARD DRAWING FOR
DROP INLET FRAME AND GRATES
FOR USE WITH STD. DWS S 840.14 & 840.15

Note: This drawing is dimensioned in millimeters unless otherwise depicted within the drawing.

SHEET 1 OF 1
840.16

CITY OF RALEIGH

All Construction must be in accordance with all Local, State, and Federal Rules and Regulations

TRANSPORTATION SERVICES _____

PUBLIC UTILITIES _____

STORMWATER _____

PLANNING _____

FIRE _____

URBAN FORESTRY _____

THE JOHN R. MCADAMS COMPANY, INC.
2905 Meridian Parkway
Durham, North Carolina 27713
Phone: 919-488-0288
Fax: 919-488-0288
(800) 733-5646 - MacAdamsCo.com

REVISIONS:

DEVELOPER:
KANE CONCORD HOTEL
EAST TWO, LLC
11410 COMMON OAKS DRIVE
RALEIGH, NC 27614

NORTH HILLS EAST AC MARRIOTT
PARK AT NORTH HILLS STREET
& DARTMOUTH ROAD
RALEIGH, NORTH CAROLINA

UTILITY AND STORM DRAINAGE DETAILS

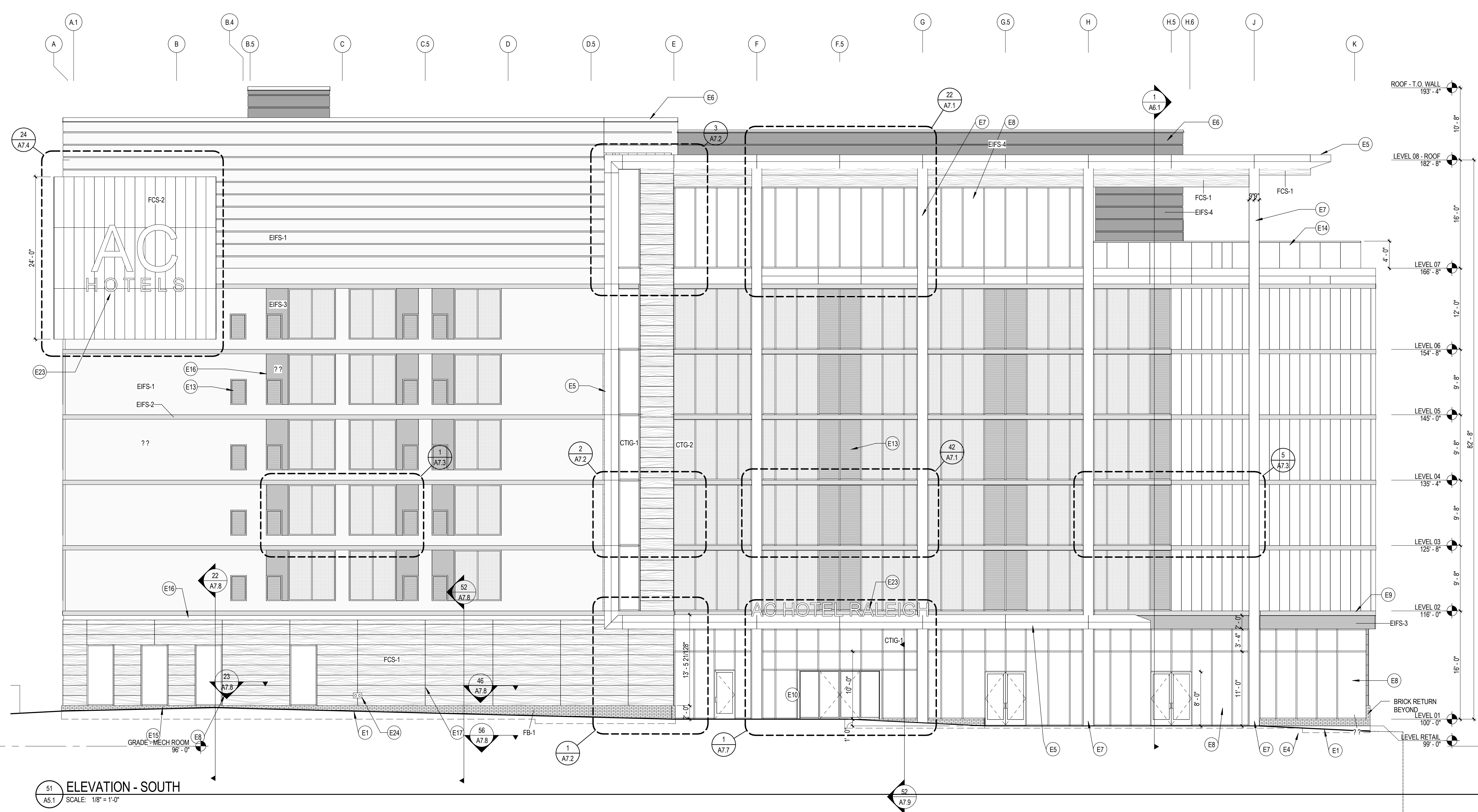
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DRAWN BY: NDW
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DATE: 07-01-2015
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McADAMS

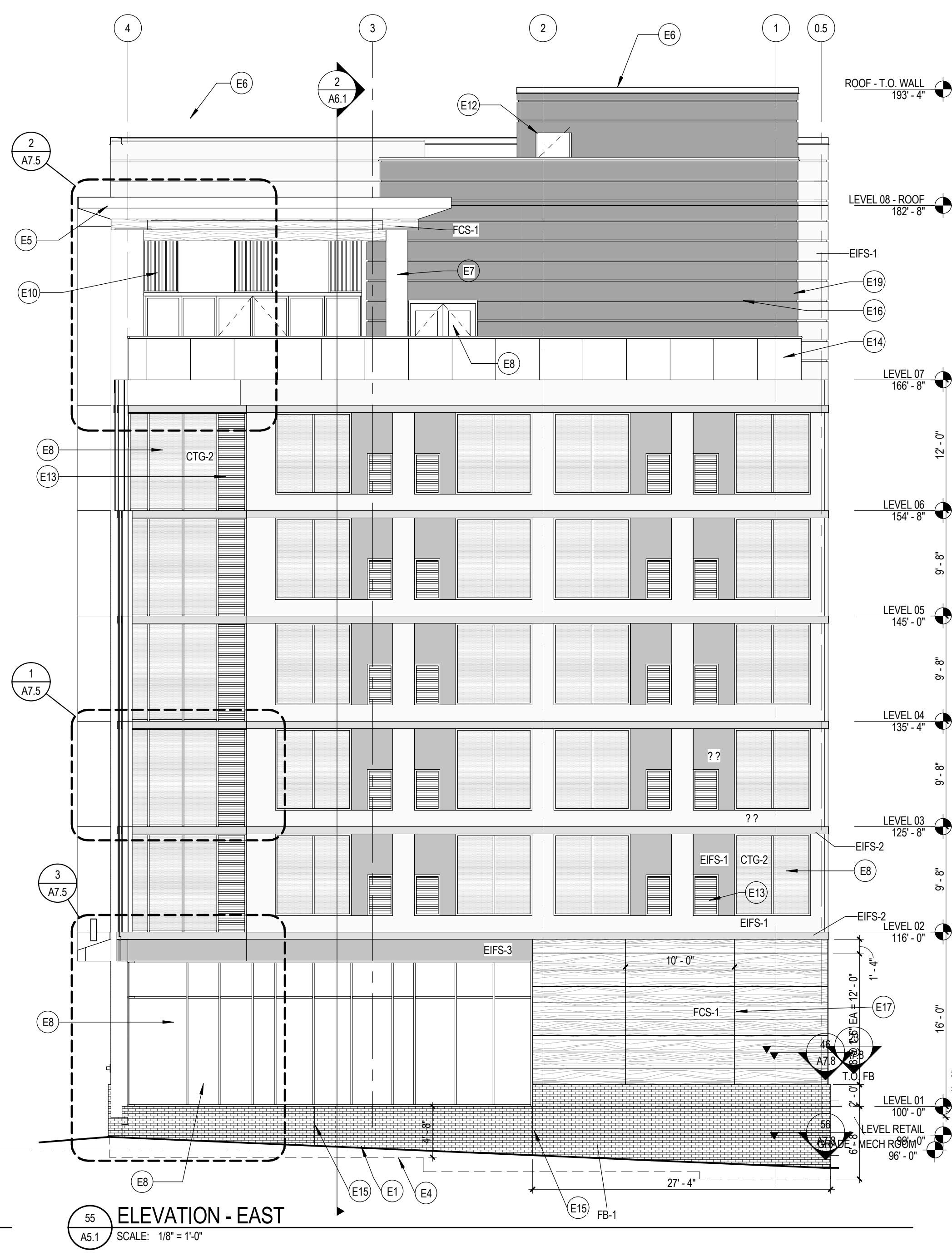
EXTERIOR ELEVATION KEYNOTES

- E1. FINISHED GRADE. SEE CIVIL DRAWINGS.
- E2. COMPOSITE METAL COLUMN COVERS.
- E3. CONCRETE MASONRY - PAINT HPC WHERE EXPOSED.
- E4. STEPPED MASONRY VENEER TRANSITION FROM FB TO CMU.
- E5. PREFINISHED METAL "BROW".
- E6. PREFINISHED METAL CORING.
- E7. ALUMINUM COLUMN COVER.
- E8. ALUMINUM STOREFRONT SYSTEM.
- E9. ALUMINUM COVER @ FLOORLINE.
- E10. ALUMINUM SLIDING DOOR SYSTEM.
- E11. not used.
- E12. INSULATED HOLLOW METAL DOOR AND FRAME.
- E13. LOUVER - CUSTOM COLOR TO MATCH ADJACENT WALL MATERIAL.
- E14. GLASS GUARDRAIL SYSTEM.
- E15. CONTROL JOINT.
- E16. DECORATIVE REVEAL.
- E17. PANEL JOINT.
- E18. TRASH ENCLOSURE LOCKABLE GATES AND HANDICAP KICK POSTS WITH COMPOSITE WOOD HORIZ SLAT @ 1/2" SPACING.
- E19. MECHANICAL ENCLOSURE.
- E20. WALL HYDRANT.
- E21. GAS METER.
- E22. PIPE BOLLARD.
- E23. BUILDING SIGNAGE.
- E24. FIRE DEPARTMENT CONNECTION.
- E25. PREFAB METAL STAIRRAILING SYSTEM.

EIFS = EXTERIOR INSULATED FINISH SYSTEM
 FB = FACE BRICK
 FCS = FIBER CEMENT WALL PANEL SYSTEM



91 ELEVATION - SOUTH
 SCALE: 1/8" = 1'-0"



96 ELEVATION - EAST
 SCALE: 1/8" = 1'-0"

NOT FOR CONSTRUCTION

Enter address here

EXTERIOR ELEVATIONS
AC HOTEL RALEIGH
 CONCORD HOSPITALITY

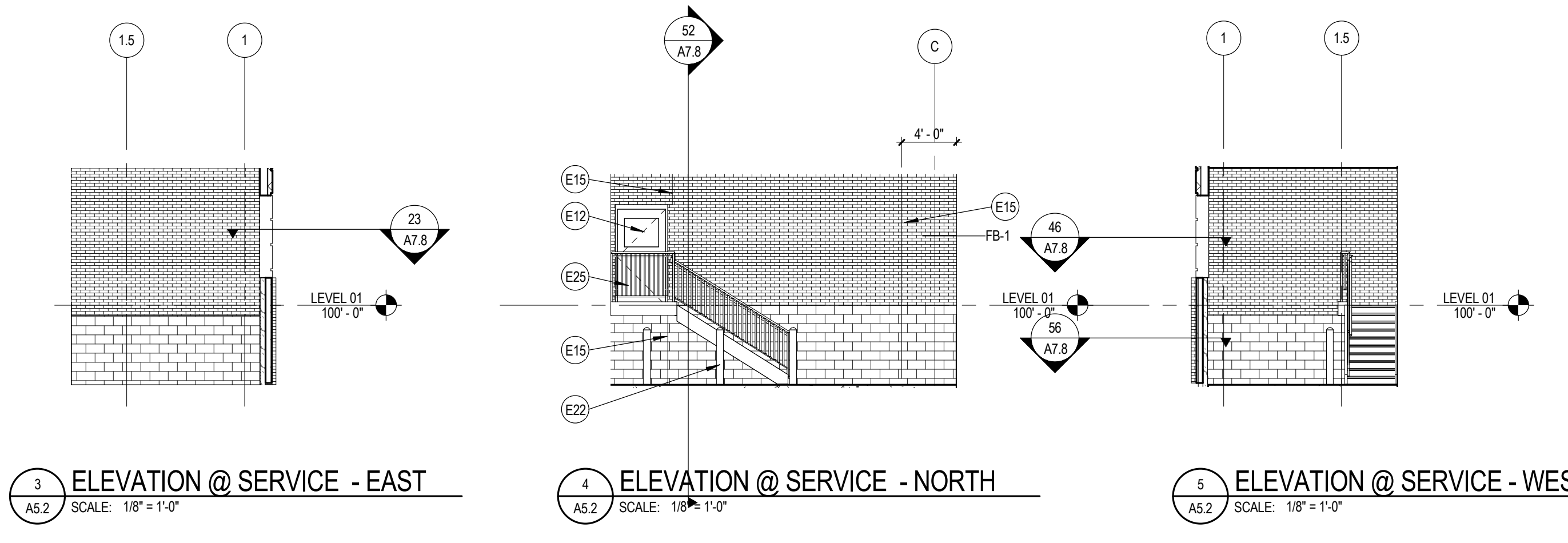
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 6.23.2015 DD / Foundation
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 Architecture Engineering Planning Interiors
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EXTERIOR ELEVATION KEYNOTES

- E1. FINISHED GRADE. SEE CIVIL DRAWINGS.
 - E2. COMPOSITE METAL COLUMN COVERS
 - E3. CONCRETE MASONRY - PAINT HPC WHERE EXPOSED.
 - E4. STEPPED MASONRY VENEER TRANSITION FROM FB TO CMU
 - E5. PREFINISHED METAL "BROW"
 - E6. PREFINISHED METAL CORING
 - E7. ALUMINUM COLUMN COVER
 - E8. ALUMINUM STOREFRONT SYSTEM
 - E9. ALUMINUM COVER @ FLOORLINE
 - E10. ALUMINUM SLIDING DOOR SYSTEM
 - E11. NOT USED
 - E12. INSULATED HOLLOW METAL DOOR AND FRAME
 - E13. LOUVER - CUSTOM COLOR TO MATCH ADJACENT WALL MATERIAL
 - E14. GLASS GUARDRAIL SYSTEM
 - E15. CONTROL JOINT
 - E16. DECORATIVE REVEAL
 - E17. PANEL JOINT
 - E18. TRASH ENCLOSURE LOCKABLE GATES AND MANDOR. HSS POSTS WITH COMPOSITE WOOD HORIZ SLAT @ 1/2" SPACING
 - E19. MECHANICAL ENCLOSURE
 - E20. WALL HYDRANT
 - E21. GAS METER
 - E22. PIPE BOLLARD
 - E23. BUILDING SONGAGE
 - E24. FIRE DEPARTMENT CONNECTION
 - E25. PREFAB METAL STAIRRAILING SYSTEM
- EIFS = EXTERIOR INSULATED FINISH SYSTEM
 FB = FACE BRICK
 FCS = FIBER CEMENT WALL PANEL SYSTEM



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**EXTERIOR ELEVATIONS
 AC HOTEL RALEIGH
 CONCORD HOSPITALITY**

A5.2
 53-15101-00
 6-23-2015 DD / Foundation
 Package

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I HEREBY CERTIFY THAT THIS PLAT IS OF THE FOLLOWING TYPE:
 G.S. 47-30 (1)(1)(G). THIS SURVEY CREATES, SUBDIVISION OF
 LAND WITHIN THE AREA OF A COUNTY OR MUNICIPALITY THAT
 HAS AN ORDINANCE THAT REGULATES PARCELS OF LAND.

RONALD T. FREDERICK PLS L-4720

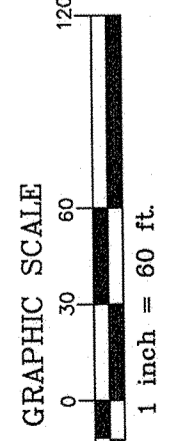


FILED FOR REGISTRATION
 DATE: 08/14/14
 LAURIAN HODDICK
 REGISTERED CLERK
 BY: [Signature]
 TIME: 12:11:25 PM

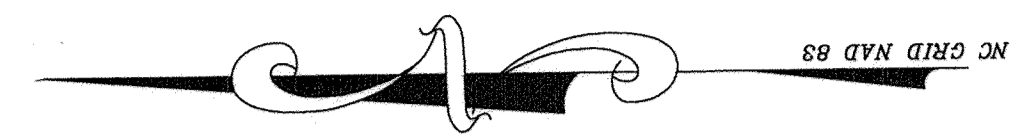
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GENERAL NOTES

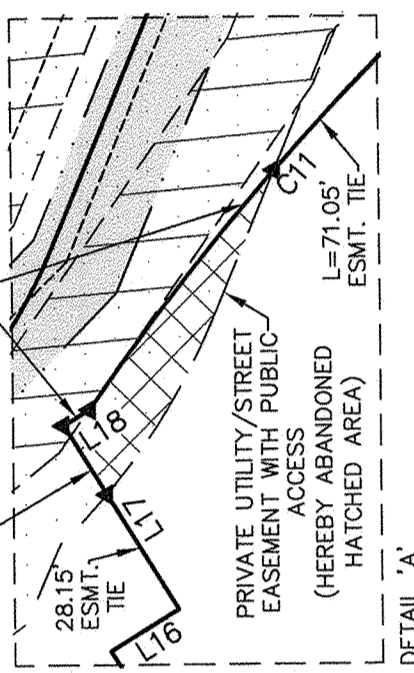
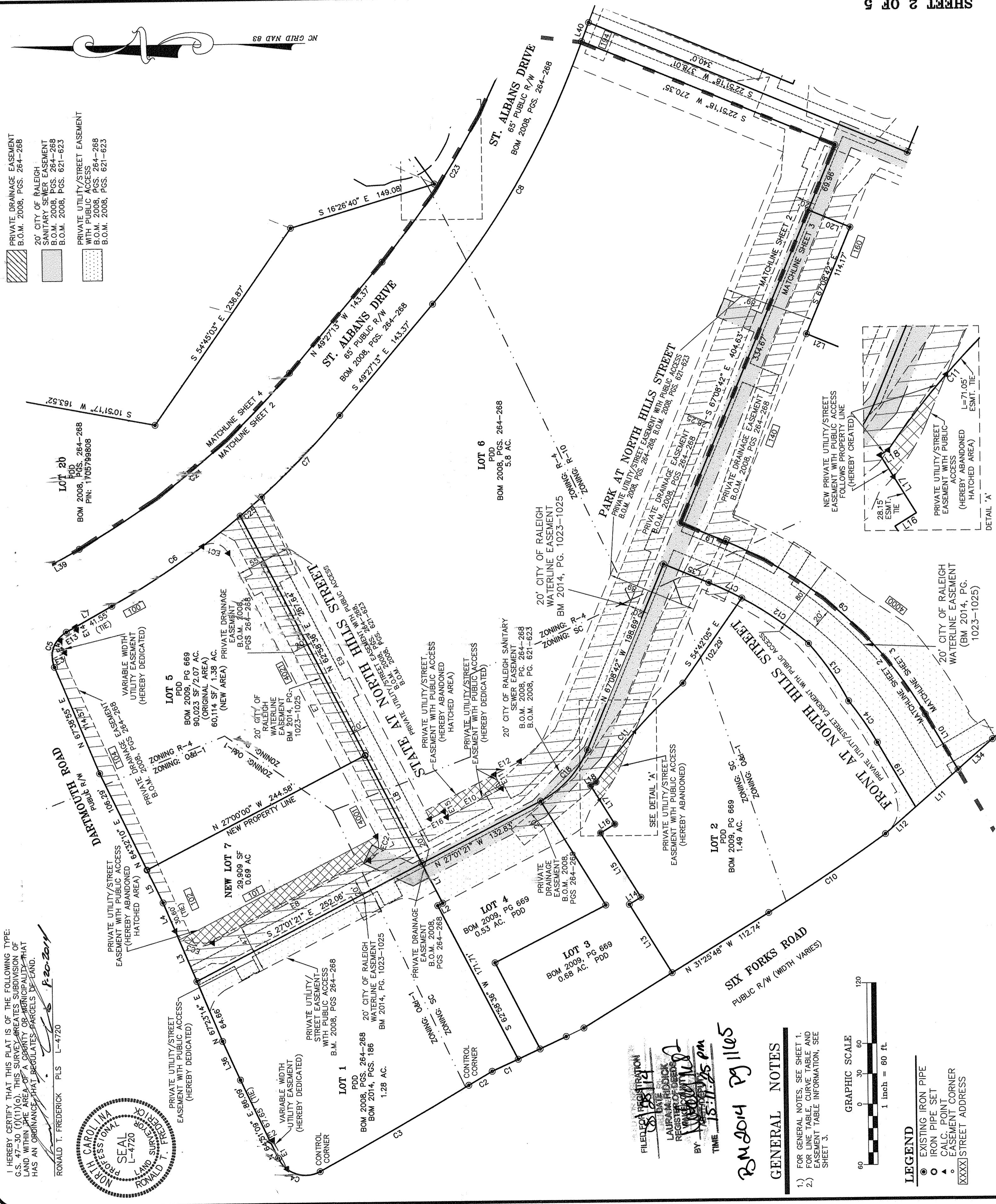
- FOR GENERAL NOTES, SEE SHEET 1.
- FOR LINE TABLE, CURVE TABLE AND EASEMENT TABLE INFORMATION, SEE SHEET 3.



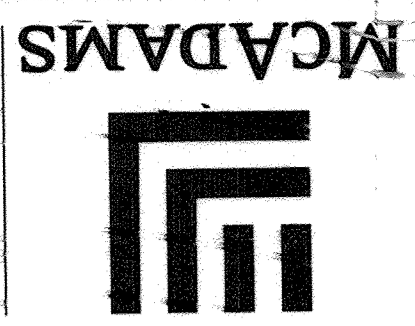
- LEGEND**
- EXISTING IRON PIPE
 - IRON PIPE SET
 - ▲ CALC. POINT
 - EASEMENT CORNER
 - XXXXX STREET ADDRESS



- PRIVATE DRAINAGE EASEMENT
B.O.M. 2008, PGS. 264-268
- 20' CITY OF RALEIGH
SANITARY SEWER EASEMENT
B.O.M. 2008, PGS. 264-268
- PRIVATE UTILITY/STREET EASEMENT
WITH PUBLIC ACCESS
B.O.M. 2008, PGS. 621-623



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REVISIONS:

NORTH HILLS EAST
 RECOMBINATION & SUBDIVISION PLAT, EASEMENT
 ABANDONMENT PLAT, EASEMENT DEDICATION PLAT
 RALEIGH TOWNSHIP, WAKE COUNTY, NORTH CAROLINA
 FINAL PLAT

PROJECT NO.: KAN-14030
 FILENAME: KAN-14030-F1
 SURVEYED BY: RTF
 DRAWN BY: KMM
 SCALE: 1"=60'
 DATE: 2014-05-05



B2014 291165