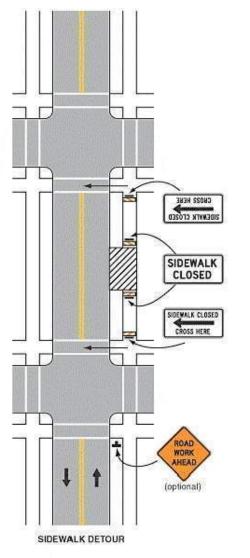
Figure 6H-28. Sidewalk Detour or Diversion (TA-28)



Typical Application 28

Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in

> FIGURE 6H-28 SIDEWALK DETOUR OR DIVERSION (TA-28)

CONSTRUCTION MANAGEMENT NOTES:

- 1. ALL CONSTRUCTION RELATED VEHICULAR TRAFFIC SHALL ENTER/LEAVE THE SITE THROUGH THE TEMPORARY CONSTRUCTION ENTRANCES AS SHOWN ON THE PLAN.
- TEMPORARY CONSTRUCTION ENTRANCES MAY SHIFT INTO SITE IN COORDINATION WITH CONSTRUCTION SEQUENCE/TRAFFIC CONTROL FOR EUBANKS ROAD. SITE CONTRACTOR TO SEE PLANS BY RAMSEY KEMP AND ASSOCIATES AND COORDINATE WITH ROADWAY CONTRACTOR.
- 3. NO OPEN BURNING SHALL BE PERMITTED ON THIS SITE.

TYPE 2 BARRICADE **

FIGURE 6F-7

**RAIL STRIPE WIDTHS SHALL BE 6 INCHES, EXCEPT THAT 4-INCH

WIDE STRIPS MAY BE USED IF RAIL LENGTHS ARE LESS THAN 36

INCHES. THE SIDES OF BARRICADES FACING TRAFFIC SHALL HAVE

1. ALL SIGNAGE SHALL BE COORDINATED WITH TOWN OF CHAPEL HILL

NCDOT PEDESTRIAN SAFETY SPECIFICATIONS.

COMPLIANT WITH 2009 MUTCD SECTION 6F.63.

1. ROUTE SHALL BE ACCESSIBLE AT ALL TIMES PER ADA.

PEDESTRIAN MANAGEMENT NOTES

2. KEEP PEDESTRIAN ROUTE CLEAR OF CONSTRUCTION ACTIVITIES.

3. UNIQUE PEDESTRIANS NEEDS SHALL BE COORDINATED WITH THE

2. ALL SIGNAGE SHALL MEET MUTCD STANDARDS AND SPECIFICATIONS AND

3. ALL PEDESTRIAN SIGNAGE SHALL BE MOUNTED ON TYPE 2 BARRICADES

CHANNELIZING DEVICES - SIDEWALK BARRICADE

*WARNING LIGHTS (OPTIONAL)

RETROREFLECTIVE RAIL FACES.

SIGNAGE NOTES

- 4. THE APPLICANT SHALL POST A CONSTRUCTION SIGN ON THE DEVELOPMENT SITE THAT LISTS THE FOLLOWING:
- PROPERTY OWNER'S REPRESENTATIVE & TELEPHONE NUMBER CONTRACTOR'S REPRESENTATIVE & TELEPHONE NUMBER
- TELEPHONE NUMBER FOR REGULATORY INFO AT TIME OF BUILDING PERMIT SIGN MAY BE A MAXIMUM OF 32 SF AND A MAXIMUM HEIGHT OF 8 FT.
- NO CONSTRUCTION ACTIVITY WHICH WILL BE SUBJECT TO THE TOWN'S NOISE ORDINANCE (ARTICLE III SECTION 11-37~42) SHALL OCCUR BETWEEN NIGHTTIME HOURS AS DEFINED IN THE TOWN ORDINANCE. THIS MEANS, IN GENERAL, BETWEEN 9 PM AND 7 AM AS DEFINED BY SECTION 11-40 (B) OF THE NOISE ORDINANCE.
- LOCATION OF CONSTRUCTION OFFICE, PARKING, AND MATERIAL STORAGE AREA IS APPROXIMATE, AND MAY CHANGE DEPENDING ON ANY ON-SITE CONSTRUCTION SEQUENCE OF THE PROJECT AS IT IS BEING COMPLETED.

TRAFFIC MANAGEMENT NOTES:

1. TRAFFIC IS NOT INTENDED TO BE INTERRUPTED DURING THE PROPOSED CONSTRUCTION, HOWEVER, NCDOT STANDARD DRAWINGS FOR TEMPORARY LANE CLOSURES (1101.02) AND TEMPORARY ROAD CLOSURES (1101.03) SHALL BE USED IF TEMPORARY TRAFFIC IMPACTS ARE NECESSARY

TEMPORARY SEEDING SCHEDULE

SEEDING DATE	SEEDING MIXTURE	APPLICATION RAT
JAN 1 — MAY 1	RYE (GRAIN)	120 LBS/AC
	KOBE LESPEDEZA	50 LBS/AC
MAY 1 - AUG 15	GERMAN MILLET	40 LBS/AC
AUG 15 - DEC 30	RYE (GRAIN)	120 LBS/AC

SOIL AMENDMENTS FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 4,000 LB/AC GROUND AGRICULTURE

FERTILIZER TO 1000 LB/AC). APPLY 4000 LB/AC STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH

LIMESTONE AND 750 LB/AC 10-10-10 FERTILIZER (FROM AUG 15 - DEC 30, INCREASE 10-10-10

ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH

ANCHORING TOOL.

<u>MAINTENANCE</u> JAN 1 - AUG 15: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE, AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

AUG 15 - DEC 30: REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOP DRESS WITH 50 LB/AC OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND BEYOND JUNE 15, OVERSEED WITH 50 LB/AC TEMPORARY COVER KOBE LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

NOTE: USE THE TEMPORARY SEEDING SCHEDULE ONLY WHEN DATE IS NOT CORRECT TO USE THE PERMANENT SEEDING SCHEDULE.

PERMANENT SEEDING SCHEDULE

SEEDING DATE AUG 25 - OCT (BEST)	SEEDING MIXTURE TALL FESCUE	APPLICATION RATE 200 LBS/AC
	RYE (GRAIN) GERMAN MILLET	50 LBS/AC 50 LBS/AC
FEB - APR 15 (POSSIBLE)	TALL FESCUE	200 LBS/AC
COLL AMENDMENTS	RYE (GRAIN) GERMAN MILLET	50 LBS/AC 50 LBS/AC

FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 4,000 LB/AC GROUND AGRICULTURE LIMESTONE AND 1000 LB/AC 10-10-10 FERTILIZER

APPLY 4000 LB/AC STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK

WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

INSPECT AND REPAIR MULCH FREQUENTLY. REFERTILIZE IN LATE WINTER OF THE FOLLOWING YEAR; USE SOIL TESTS OR APPLY 150 LB/AC 10-10-10 FERTLIZER. MOW REGULARLY TO A HEIGHT OF 2-4 INCHES.

SEEDBED PREPARATION

FERTILIZER: 17 LBS / 1,000 SF

AREAS TO BE SEEDED TO BE SCARIFIED 4" DEEP. A FIRM, WELL PULVERIZED, UNIFORM SEEDBED SHOULD BE PROVIDED. FERTILIZER SHALL BE PLACED DURING SCARIFICATION AS FOLLOWS: LIME: 45 LBS / 1,000 SF PHOSPHOROUS: 20 LBS / 1,000 SF

CONSTRUCTION SEQUENCE - STAGE 1

OBTAIN A LAND-DISTURBING PERMIT AND SCHEDULE A PRECONSTRUCTION CONFERENCE WITH ORANGE COUNTY EROSION CONTROL OFFICER, WESLEY POOLE (919)245.2587. THE PRECONSTRUCTION MEETING SHALL INCLUDE A REPRESENTATIVE FROM OWASA, TOWN OF CHAPEL HILL, TOWN OF CHAPEL HILL URBAN

NOTE: INSTALL A RURAL TYPE MAILBOX ON THE SITE TO HOLD A COPY OF THE APPROVED EROSION CONTROL PLAN AND TO PROVIDE A PLACE FOR INSPECTORS TO LEAVE INSPECTION REPORT, COMPLIANCE NOTICES, ETC

- INSTALL GRAVEL CONSTRUCTION ENTRANCE(S) PER PLAN. ALSO INSTALL TEMPORARY SILT FENCING WITH
- 3. CONTRACTOR SHALL CLEAR ONLY THOSE AREAS NECESSARY TO ACCESS AND INSTALL INITIAL PERIMETER DEVICES. INSTALL INLET PROTECTION ON EXISTING INLETS AS SHOWN.
- INSTALL INLET PROTECTION PER ORANGE COUNTY SEC STANDARDS AND SPECIFICATIONS ON ALL SPECIFIED
- 5. CALL 919.245.2587 FOR ON-SITE INSPECTION BY ORANGE COUNTY EROSION CONTROL.
- BEGIN CLEARING, DEMOLITION OF EXISTING ASPHALT AND GRAVEL AREAS, AND GENERAL GRADING OF STAGE 1 AREA. MAINTAIN DEVICES AS NEEDED.
- NO MUD SHALL BE TRACKED ONTO EXISTING PAVEMENT OR A NOTICE OF VIOLATION FROM THE EROSION CONTROL DEPARTMENT MAY ENSUE. ADDITIONAL MEASURES MAY BE NECESSARY TO ASSURE THAT NO SEDIMENT LEAVES THE SITE.
- PROVIDE ALL DISTURBED AREAS WITH GROUND COVER WITHIN 14 CALENDAR DAYS AFTER COMPLETION OF ANY PHASE OF CLEARING, GRUBBING OR GRADING. THE SEEDING, SEEDBED PREPARATION, MULCH AND/OR ROLLED EROSION CONTROL PRODUCT INSTALLATION MUST BE IN ACCORDANCE WITH THE SEEDING SCHEDULE PROVIDED IN THIS S&E PLAN. NOTE: SLOPES IN EXCESS OF 3H:1V SHALL BE STABILIZED WITHIN 7 DAYS AND FOR MODERATE SLOPES (SLOPES LESS THAN 3H:1V) SHALL BE STABILIZED WITHIN 14 DAYS.
- 9. WITH APPROVAL FROM ORANGE COUNTY EROSION CONTROL INSPECTOR, CONTINUE TO STAGE 2.

CONSTRUCTION SEQUENCE - STAGE 2

- 1. CONSTRUCT STORM DRAIN SYSTEM AS SHOWN.
- 2. INSTALL INLET PROTECTION ON ALL INLET STRUCTURES DURING CONSTRUCTION.
- PROVIDE ALL DISTURBED AREAS WITH GROUND COVER WITHIN 14 CALENDAR DAYS AFTER COMPLETION OF ANY PHASE OF CLEARING, GRUBBING OR GRADING. THE SEEDING, SEEDBED PREPARATION, MULCH AND/OR ROLLED EROSION CONTROL PRODUCT INSTALLATION MUST BE IN ACCORDANCE WITH THE SEEDING SCHEDULE PROVIDED IN THIS S&E PLAN. NOTE: SLOPES IN EXCESS OF 3H:1V SHALL BE STABILIZED WITHIN 7 DAYS AND FOR MODERATE SLOPES (SLOPES LESS THAN 3H:1V) SHALL BE STABILIZED WITHIN 14 DAYS.
- AT THE CONCLUSION OF BUILDING OR IF LAND-DISTURBING ACTIVITY IS STOPPED FOR MORE THAN 14 CONSECUTIVE CALENDAR DAYS, PERMANENT VEGETATIVE COVER SHALL BE INSTALLED IN ACCORDANCE WITH
- 5. WHEN SITE IS AT FINAL GRADE AND NO FURTHER GRADING IS NECESSARY, CONTRACTOR SHALL STABILIZE PORTIONS OF THE SITE WITH SEED/MULCH UNTIL FINAL LANDSCAPING IS INSTALLED.
- WHEN CONSTRUCTION IS COMPLETE, CALL OCEC TO OBTAIN FINAL INSPECTION AND CERTIFICATE OF COMPLETION TO CLOSE OUT EROSION CONTROL PERMIT.

EROSION CONTROL NOTES:

- 1. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE. THE CONTRACTOR SHALL CALL FOR A INSPECTION BY ORANGE COUNTY SEDIMENTATION AND EROSION CONTROL (SEC) ONCE INITIAL MEASURES ARE IN PLACE.
- 2. REQUIRED TREE PROTECTION FENCING SHALL BE INSTALLED AND A PRE-CONSTRUCTION CONFERENCE SCHEDULED WITH THE TOWN'S URBAN FORESTER PRIOR TO BEGINNING LAND DISTURBANCE.
- 3. SEDIMENT/EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF
- 4. IN ADDITION TO THE REQUIREMENT DURING CONSTRUCTION FOR THE INSPECTION OF EROSION CONTROL DEVICES AFTER EVERY RAINFALL. THE CONTRACTOR SHALL INSPECT THE EROSION AND SEDIMENT CONTROL DEVICES AND OFFSITE ROADWAYS DAILY, MAKE ANY NECESSARY REPAIRS OR ADJUSTMENTS TO THE DEVICES, REMOVE DEPOSITION OF WET OR DRY SILT ON ADJACENT ROADWAYS AND MAINTAIN
- INSPECTION LOGS DOCUMENTING THE DAILY INSPECTIONS AND ANY NECESSARY REPAIRS. 5. A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
- 6. CONSTRUCTION, MAINTENANCE, AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE GRADING CONTRACTOR UNLESS OTHERWISE NOTED.
- 7. ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
- 8. NO DEBRIS SHALL BE TRACKED ONTO ANY EXISTING PAVED AREAS OR PUBLIC RIGHT OF WAY. IF THE SITUATION OCCURS WHERE MUD, ROCK AND DEBRIS IS TRACKED ONTO PAVEMENT, THE CONTRACTOR SHALL CLEAN THE PAVEMENT AND INSTALL ADDITIONAL MEASURES TO PREVENT THE FUTURE OCCURRENCE.
- 9. DURING THE CONSTRUCTION PHASE, ADDITIONAL EROSION AND SEDIMENT CONTROLS MAY BE REQUIRED IF THE PROPOSED MEASURES DO NOT CONTAIN THE SEDIMENT ON SITE, THE EROSION CONTROL INSPECTOR MAY REQUIRE ADDITIONAL FIELD MEASURES AS NECESSARY TO PROVIDE ADEQUATE PROTECTION FROM RECEIVING WATER COURSES.
- 10. PROTECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE STRIPPING OF TOPSOIL OR LOWERING OF EXISTING GRADE AROUND A TREE, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA AT THE SAME TIME AS OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA AND SHALL BE POSTED ON THE PROTECTION FENCE. A PROTECTION FENCE CONSTRUCTED OF MATERIAL RESISTANT TO DEGRADATION BY SUN, WIND, AND MOISTURE FOR THE DURATION OF THE CONSTRUCTION, SHALL BE INSTALLED AT THE SAME TIME AS THE EROSION CONTROL MEASURES AND SHALL BE IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE.
- 11. A CONSTRUCTION SEQUENCE HAS BEEN PROVIDED. INSTALLATION OF ALL PROPOSED SEDIMENTATION & EROSION CONTROL MEASURES IN THE SEQUENCE(S) PROVIDED AND MAINTENANCE OF THOSE DEVICES IS REQUIRED. THE CONTRACTOR MAY BE ALLOWED, WITH PRIOR APPROVAL FROM THE OWNER, TO COORDINATE CHANGES TO THE PLAN WITH THE ON-SITE SEDIMENTATION & EROSION CONTROL INSPECTOR AND THE ENGINEER.
- 12. PROVIDE INLET PROTECTION AROUND ALL SITE STORM INLETS. PROTECT OPEN PIPES UNDER CONSTRUCTION WITH EITHER PLYWOOD OR WITH MESH AND GRAVEL WEIRS. RUNOFF SHALL NOT BE ALLOWED IN ANY OPEN TRENCH.
- 13. CONTRACTOR TO VERIFY SILT FENCE OUTLET PLACEMENT AT LOW POINTS AS THEY EXIST OR DEVELOP. ADDITIONAL SILT FENCE OUTLETS MAY BE REQUIRED TO PREVENT EROSION DURING AND AFTER CONSTRUCTION AND LAND DISTURBANCE ACTIVITIES. IF ADDITIONAL SILT FENCE OUTLETS ARE NECESSARY, CONTRACTOR TO ADD ADDITIONAL SILT FENCE OUTLETS PER ENGINEER, NCDEQ EROSION CONTROL INSPECTOR. OR OWNER DIRECTION. IF PONDING OF WATER OR SEDIMENT OCCURS ALONG SILT FENCE, CONTRACTOR SHALL INSTALL AN ADDITIONAL SILT FENCE OUTLET.
- 14. TEMPORARY DIVERSIONS SHALL BE MAINTAINED DAILY BY CONTRACTOR SO THAT THEY ARE FUNCTIONAL AT THE END OF EACH WORKDAY AND WHEN STOPPING WORK FOR RAIN.

CONTRACTOR'S MAINTENANCE PLAN:

- 1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN ALL MEASURES AS DESIGNED.
- 2. SEDIMENT BASINS SHALL BE INSPECTED REGULARLY DURING LAND DISTURBING ACTIVITIES AND AFTER EACH RUNOFF-PRODUCING RAINFALL. SEDIMENT SHALL BE REMOVED AND THE BASIN RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF EACH BASIN. PORTIONS OF THE BASIN'S GRAVEL FACING THAT ARE CONTAMINATED BY SEDIMENT SHALL BE REPLACED WITH FRESH GRAVEL DURING EACH SEDIMENT REMOVAL EPISODE.
- 3. SEDIMENT FENCES SHALL BE INSPECTED AT LEAST ONCE A WEEK AND AFTER EACH RUNOFF PRODUCING RAINFALL, REPAIRS SHALL BE MADE IMMEDIATELY, SEDIMENT DEPOSITS SHALL BE REMOVED AS NEEDED TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAINFALL EVENT. AND TO REDUCE PRESSURE ON THE FENCE. FENCING MATERIALS AND SEDIMENT DEPOSITS SHALL BE REMOVED, AND THE AREA BROUGHT TO GRADE FOLLOWING STABILIZATION OF UPGRADIENT DISTURBED AREAS.
- 4. DIVERSION DITCHES MUST REMAIN IN PLACE UNTIL PROJECT IS STABILIZED
- 5. EROSION CONTROL DURING SITE CONSTRUCTION WILL BE ACCOMPLISHED BY USE OF SILT FENCING AND SILT FENCE OUTLETS. DEVICES MUST BE EMPTIED WHEN SEDIMENT ACCUMULATION HAS REACHED 6" DEPTH.

GROUND STABILIZATION STABILIZATION STABILIZATION TIME SITE AREA DESCRIPTION TIME FRAME FRAME EXCEPTIONS SWALES, DITCHES AND HIGH QUALITY WATER NONE HQW) ZONES IF SLOPES ARE 10' OR LESS SLOPES STEEPER THAN IN LENGTH AND ARE NO STEEPER THAN 2:1, 14 DAYS ARE ALLOWED 7-DAYS FOR SLOPES 14 DAYS SLOPES 3:1 OR FLATTER GREATER THAN 50 FEET IN LENGTH ALL OTHER AREAS WITH SLOPES FLATTER THAN 14 DAYS PERIMETERS AND HQW

BUILDING WASTES HANDLING

- NO PAINT OR LIQUID WASTES IN STREAM OR STORM DRAINS
- DEDICATED AREAS FOR DEMOLITION, CONSTRUCTION AND OTHER WASTES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES AVAILABLE.
- EARTHEN-MATERIAL STOCKPILES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES AVAILABLE.

WITH SURFACE WATER, WETLANDS, OR BUFFERS.

CONCRETE MATERIALS MUST BE CONTROLLED TO AVOID CONTACT

EROSION CONTROL
-0 0
\Diamond
igcup
—

— SF — SF — SILT FENCE — TP — TP — TREE PROTECTION FENCE

LEGEND

SILT FENCE OUTLET

INLET PROTECTION

INLET PROTECTION

FILTER BERM

CHECK DAM

FOR EXISTING STRUCTURES

TEMPORARY SLOPE DRAIN

WOODED AREA

UTILITY NOTES

REVISIONS NO. DATE

DIVERSION DITCH

SHEET

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF CHAPEL HILL ENGINEERING DESIGN

CONSTRUCTION ENTRANCE/EXIT

FINAL DRAWING - RELEASED FOR CONSTRUCTION

SEE SHEET CO.00 FOR ALL PROJECT, SITE,

GRADING, STORM DRAINAGE AND

AND CONSTRUCTION STANDARDS



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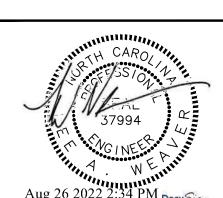
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RAM REALTY 127 W. WORTHINGTON AVE, SUITE 290



CHARLOTTE, NORTH CAROLINA 28203



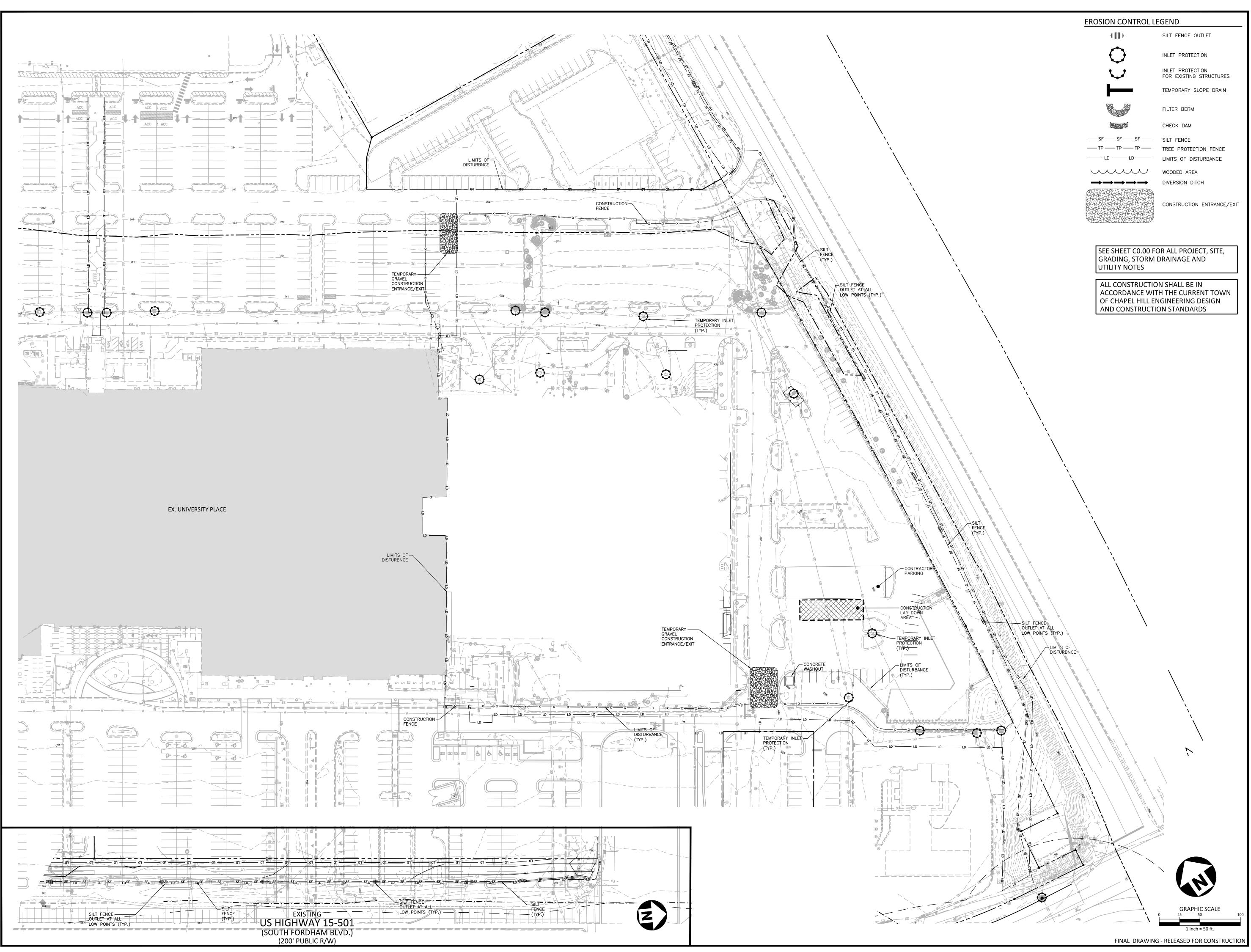


DECRIPTION 04/22/2022 REVISED PER TOCH COMMENTS REVISED PER TOCH COMMENTS 06/29/2022 08/16/2022 FINAL SUBMITTAL

PLAN INFORMATION

RAM-19000 PROJECT NO. FILENAME RAM19000-EC1 CHECKED BY DRAWN BY SCALE DATE 11. 12. 2021

EROSION CONTROL & CM NOTES





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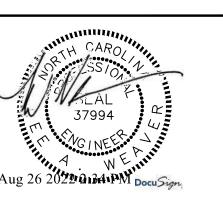
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RAM REALTY

127 W. WORTHINGTON AVE, SUITE 290 CHARLOTTE, NORTH CAROLINA 28203



UNIVERSITY PLACE PHASE 1D ONING COMPLIANCE PERMIT CHAPEL HILL, NC 27514



REVISIONS

DATE DECRIPTION

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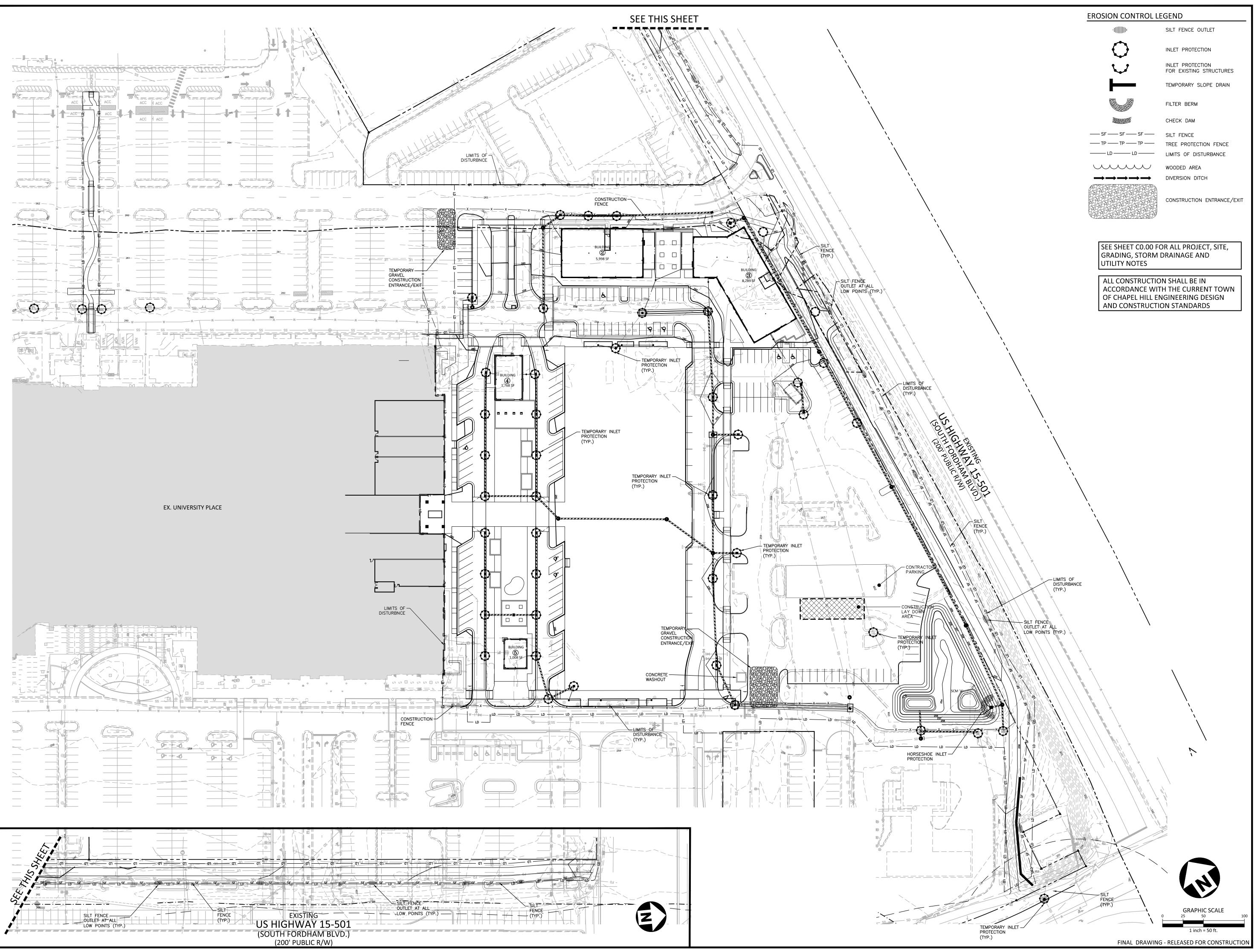
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FILENAME RAM19000-EC1
CHECKED BY LAW
DRAWN BY MRO
SCALE 1"=50'

SHEET

EROSION CONTROL & CM PLAN - STAGE 1

C6.02-1D

11. 12. 2021





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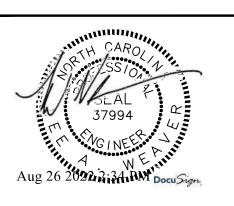
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UNIVERSITY PLACE
PHASE 1D
ONING COMPLIANCE PERMIT



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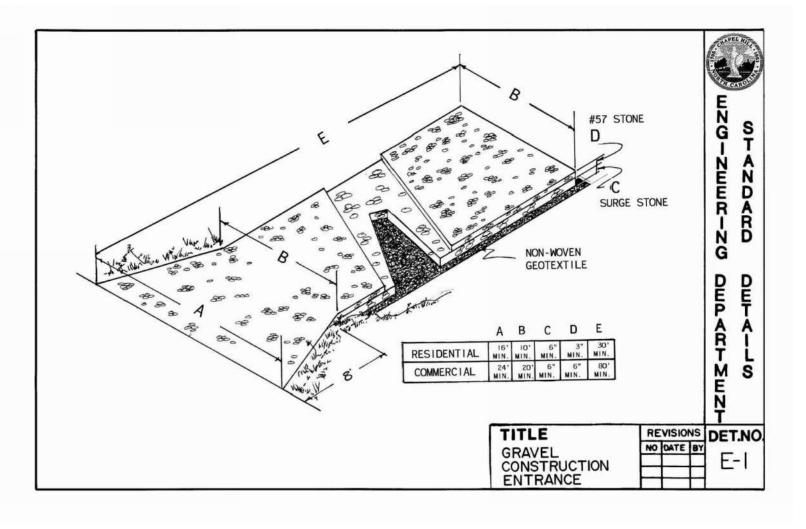
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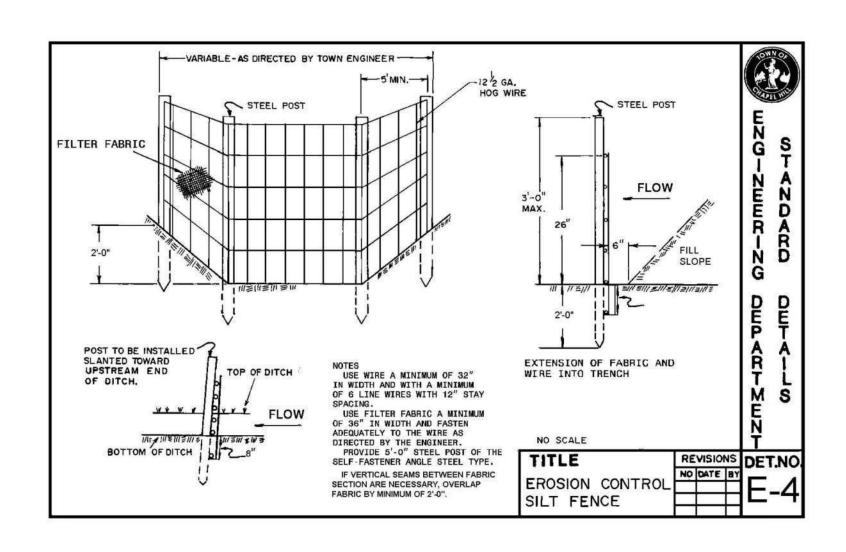
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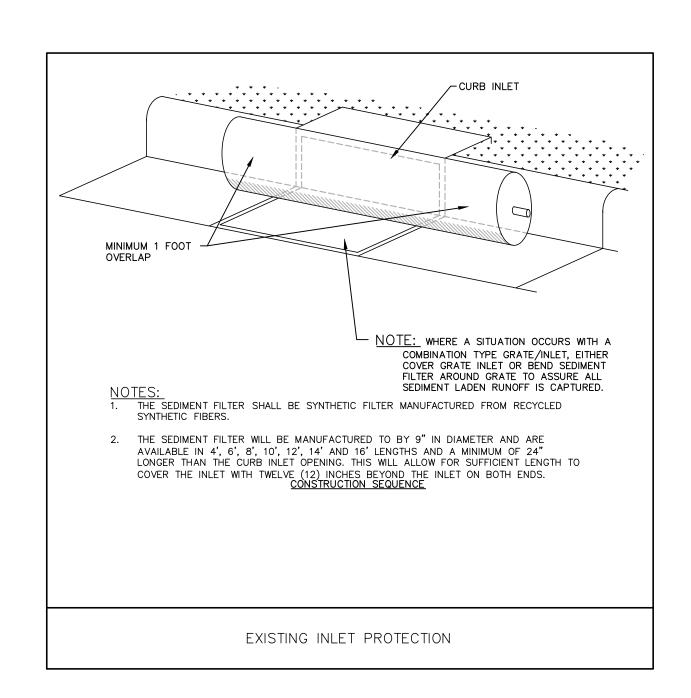
EROSION CONTROL & CM PLAN - STAGE 2

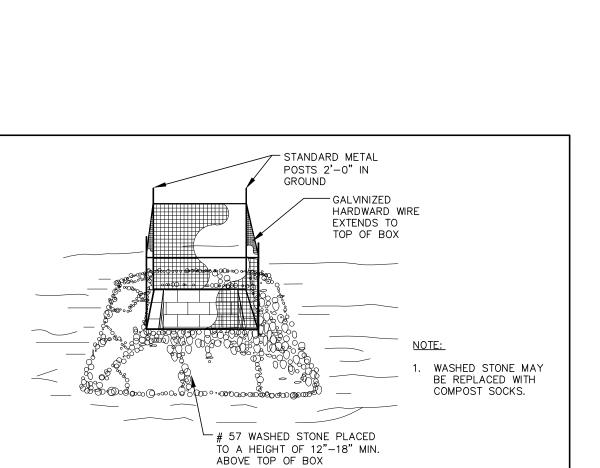
11. 12. 2021

C6.03-1D









STANDARD POST & GRAVEL INLET PROTECTION

BLOCK AND GRAVEL INLET PROTECTION MAINTENANCE

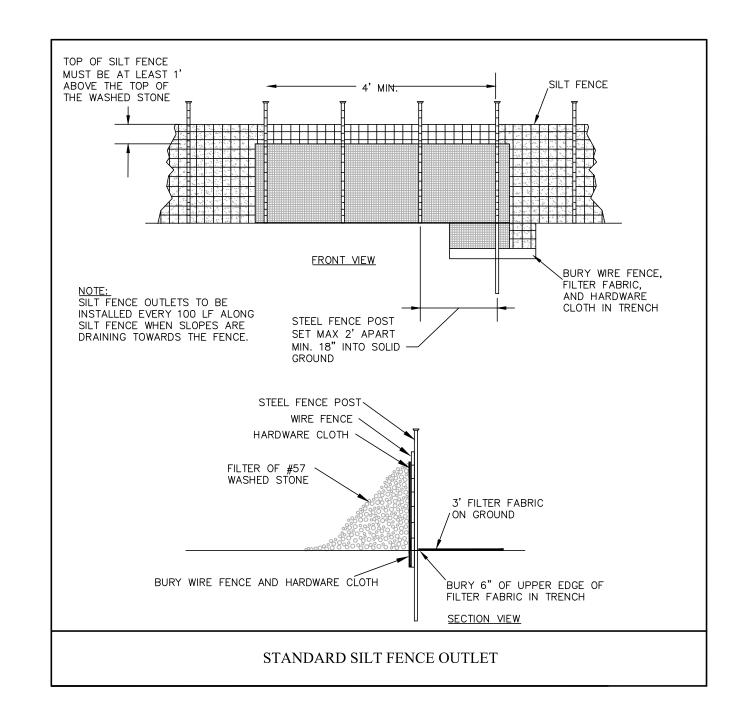
INSPECT THE BARRIER AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL AND MAKE REPAIRS AS NEEDED.

REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS.

WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SOIL, AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY.

BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT.

APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.



SILT FENCE OUTLET MAINTENANCE

REMOVE SEDIMENT WHEN HALF OF STONE OUTLET IS COVERED.

UNDERMINING THE FENCE DURING CLEANOUT.

REPLACE STONE AS NEEDED TO ENSURE DEWATERING.

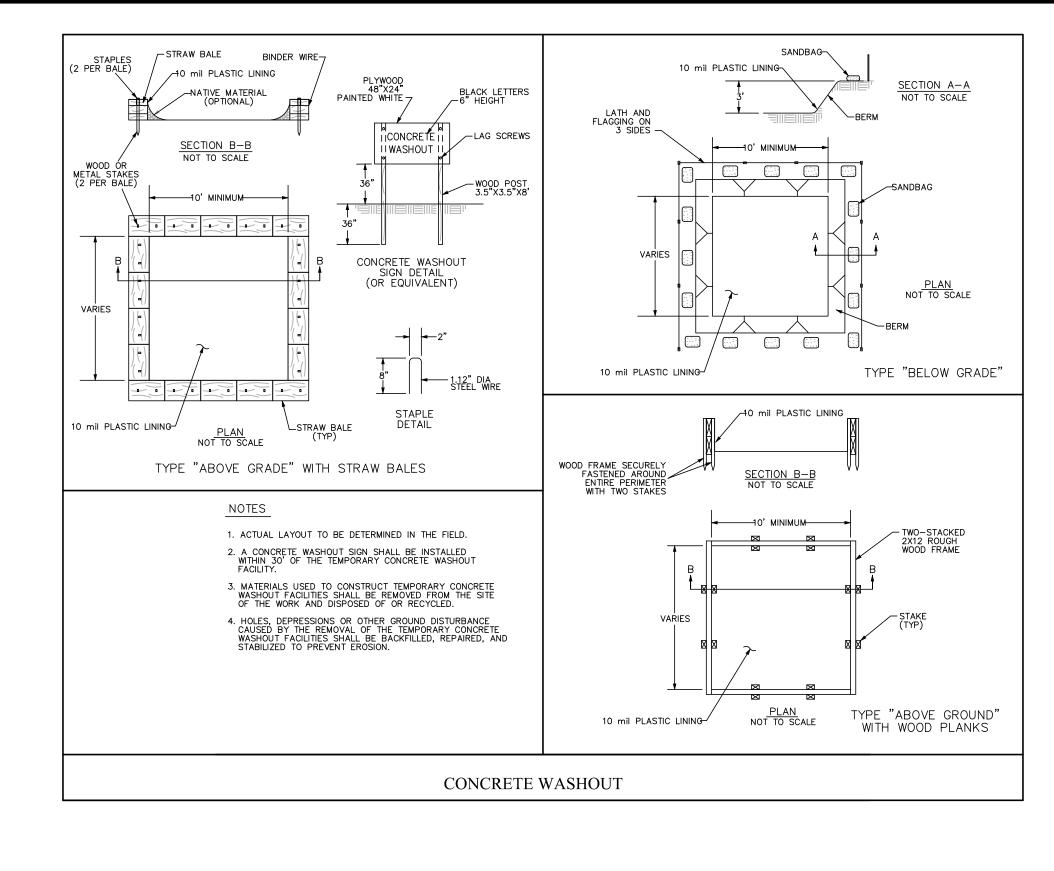
INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AN

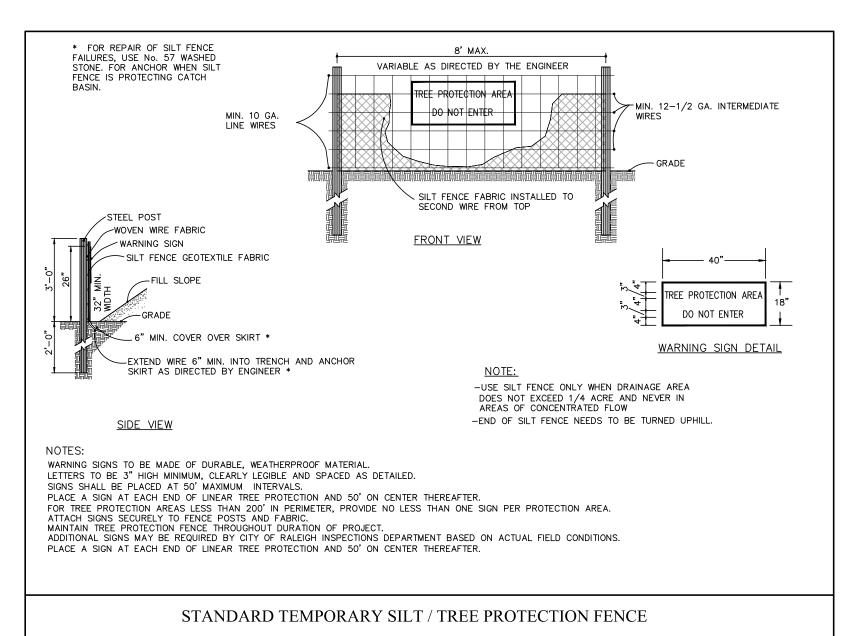
INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY

SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.

REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID

REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.





SILT FENCE MAINTENANCE

INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY

SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.

REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.

REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY

REVISIONS

NO. DATE DECRIPTION

1 04/22/2022 REVISED PER TOCH COMMENTS
2 06/29/2022 REVISED PER TOCH COMMENTS

2 06/29/2022 REVISED PER TOCH COMMENTS 3 08/16/2022 FINAL SUBMITTAL

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RAM REALTY

PLAN INFORMATION

PROJECT NO. RAM-19000

FILENAME RAM19000-EC2

CHECKED BY LAW

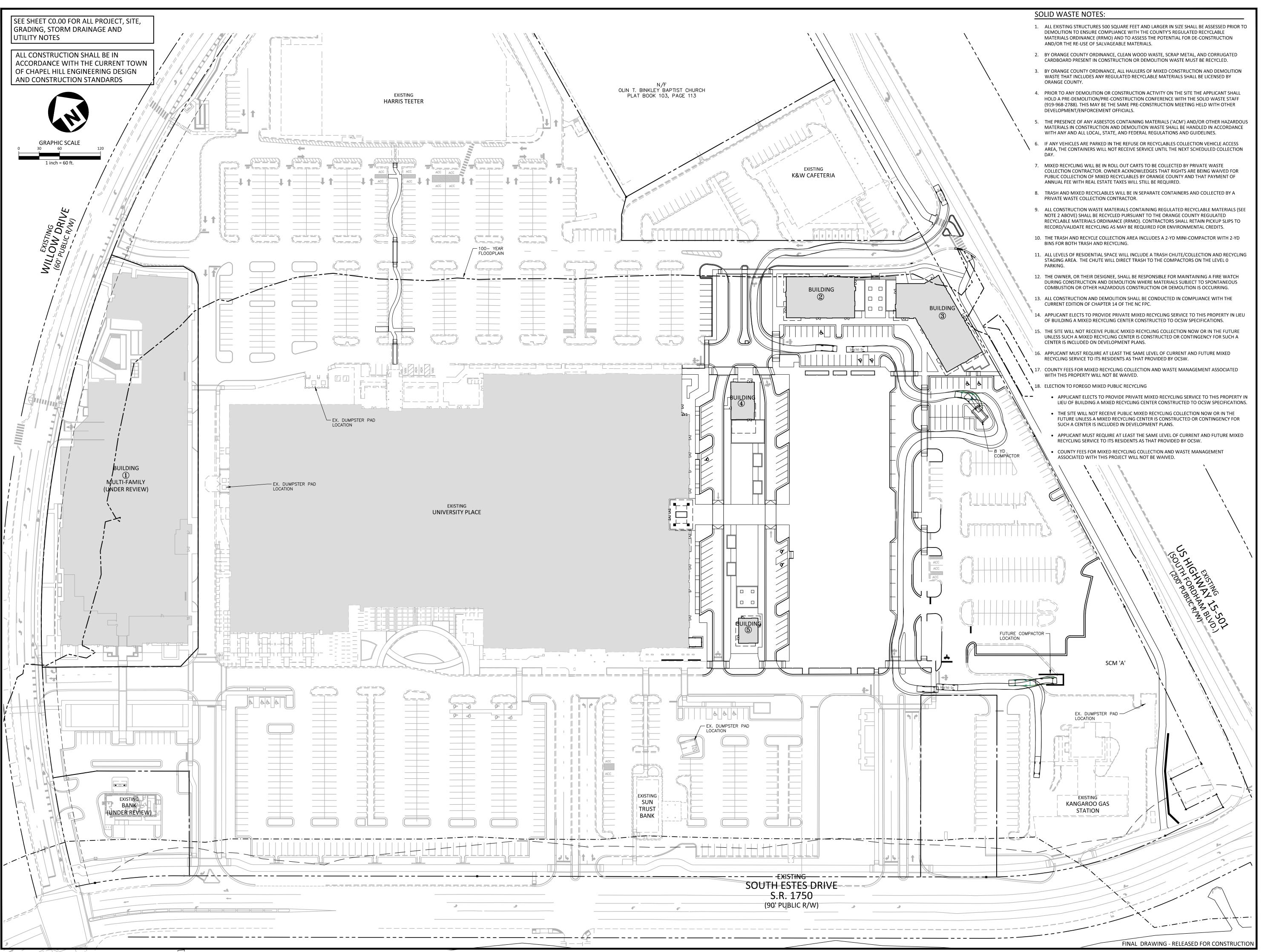
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DATE 11. 12. 2021

SHEET

EROSION CONTROL DETAILS

C6.05-10







The John R. McAdams Company, Inc. 2905 Meridian Parkway Durham, NC 27713

> phone 919. 361. 5000 fax 919. 361. 2269 license number: C-0293

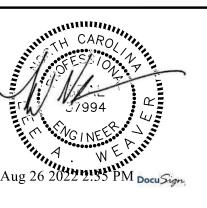
> www.mcadamsco.com

CLIENT

RAM REALTY

127 W. WORTHINGTON AVE, SUITE 290 CHARLOTTE, NORTH CAROLINA 28203





REVISIONS

DATE	DECRIPTION
04/22/2022	REVISED PER TOCH COMMI
06/29/2022	REVISED PER TOCH COMMI
08/16/2022	FINAL SUBMITTAL

PLAN INFORMATION

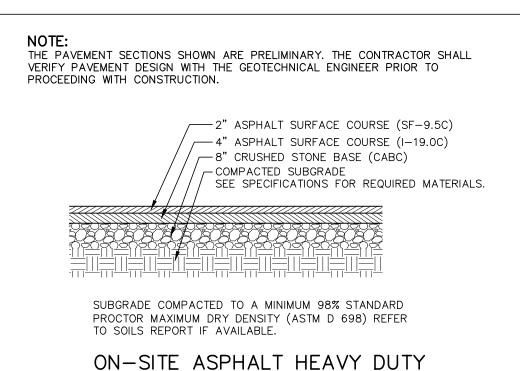
CHECKED BY

SHEET

SOLID WASTE PLAN

11. 12. 2021

C7.01-1D



ON-SITE ASPHALT HEAVY DUT'

TRAFFIC PAVEMENT DETAIL

N.T.S.

NOTE:
THE PAVEMENT SECTIONS SHOWN ARE PRELIMINARY. THE CONTRACTOR SHALL VERIFY PAVEMENT DESIGN WITH THE GEOTECHNICAL ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.

2" ASPHALT SURFACE COURSE (SF-9.5A)

3" ASPHALT SURFACE COURSE (I-19.0B)

6" CRUSHED STONE BASE (CABC)

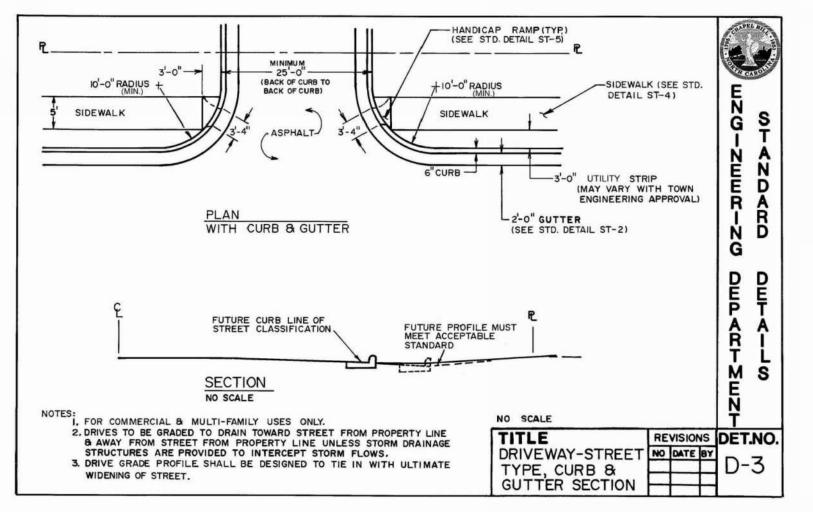
COMPACTED SUBGRADE

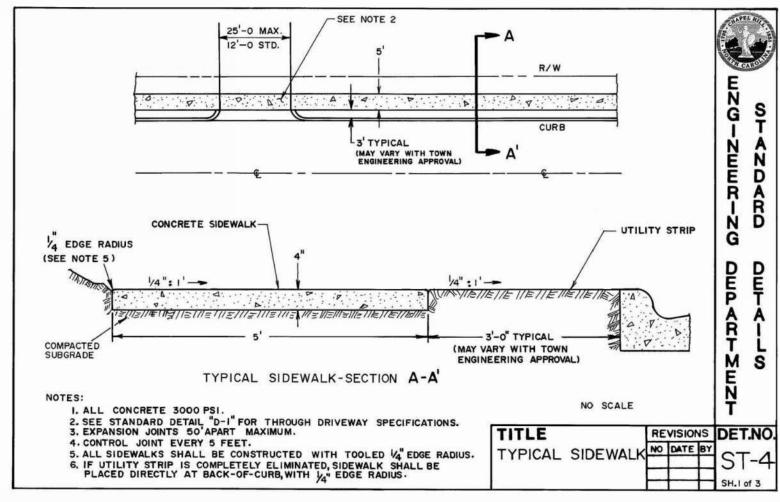
SEE SPECIFICATIONS FOR REQUIRED MATERIALS.

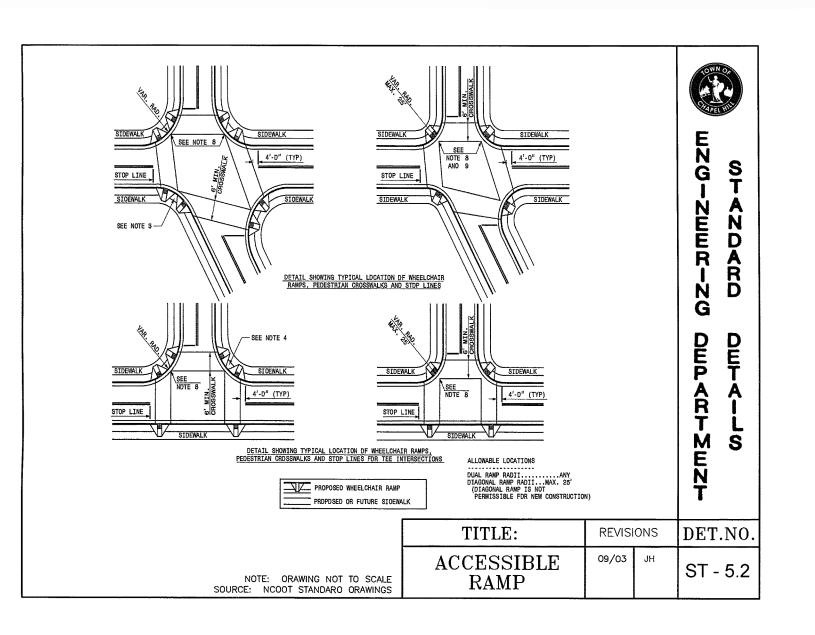
SUBGRADE COMPACTED TO A MINIMUM 98% STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698) REFER TO SOILS REPORT IF AVAILABLE.

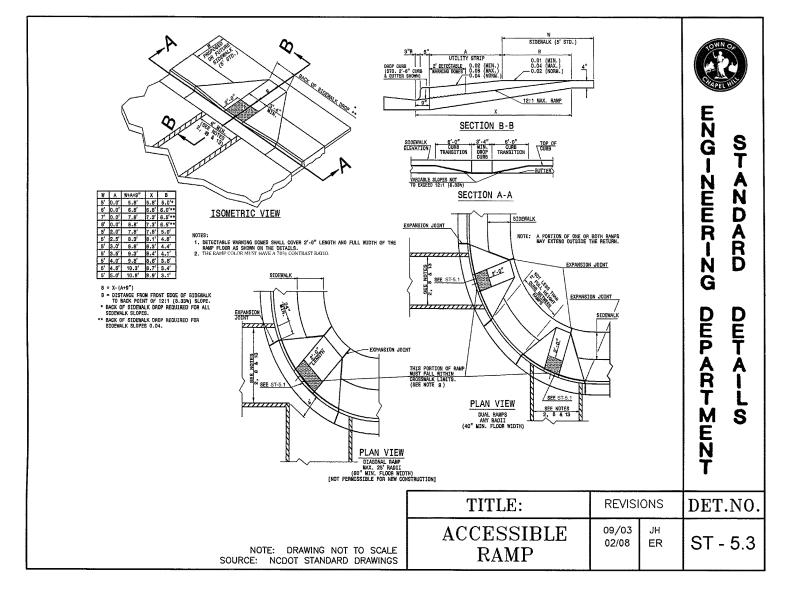
ON-SITE ASPHALT PARKING PAVEMENT DETAIL

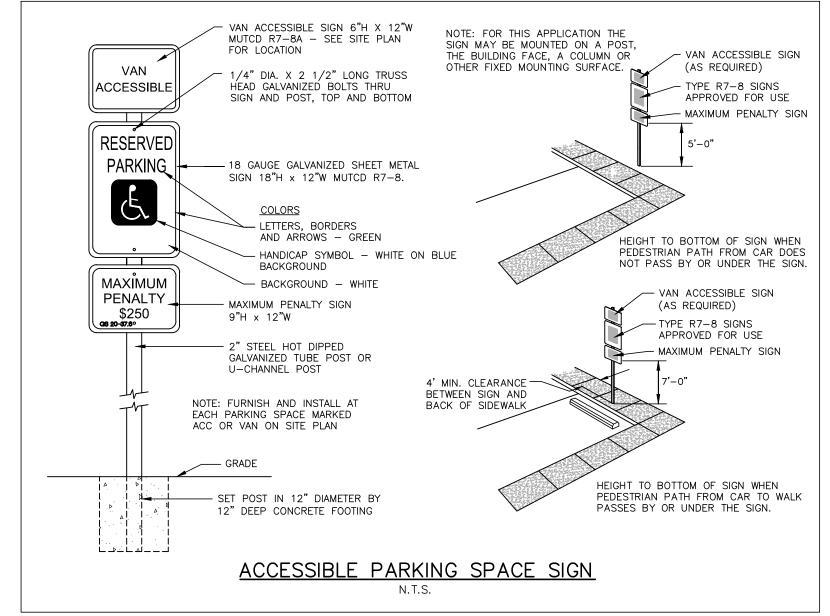
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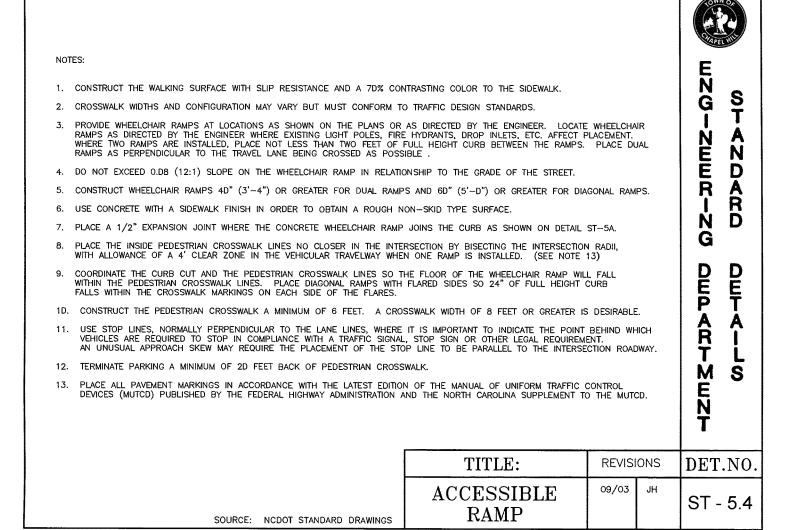














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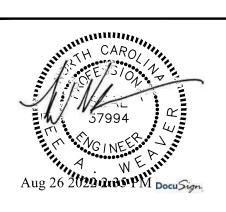
CLIENT

RAM REALTY

127 W. WORTHINGTON AVE, SUITE 290 CHARLOTTE, NORTH CAROLINA 28203



NIVEKSILY PLACE PHASE 1D NG COMPLIANCE PERMI CHAPEL HILL, NC 27514



REVISIONS

NO. DATE DECRIPTION

1 04/22/2022 REVISED PER TOCH COMMENTS

2 06/29/2022 REVISED PER TOCH COMMENTS

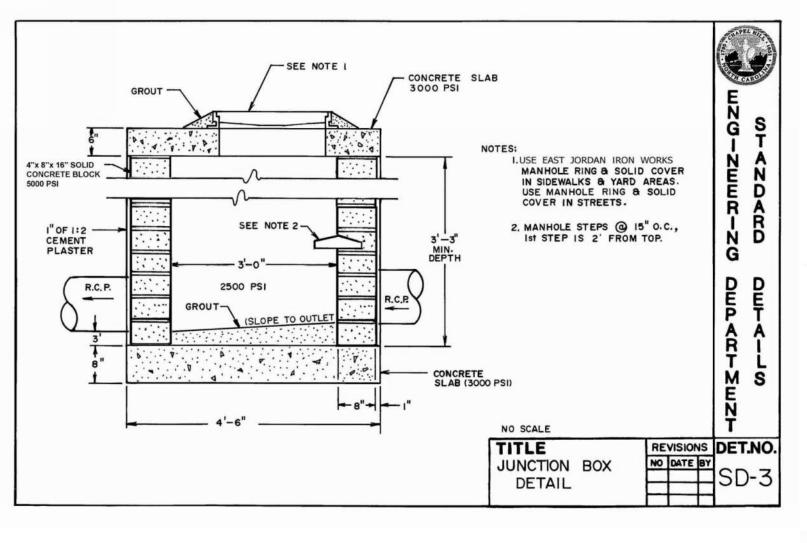
3 08/16/2022 FINAL SUBMITTAL

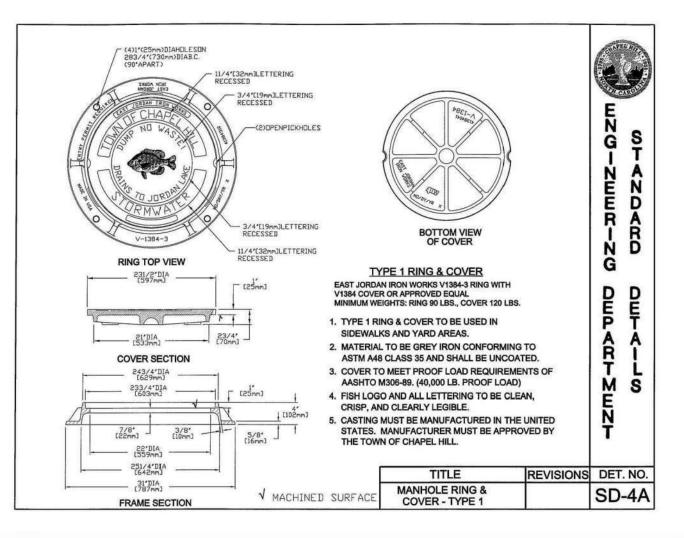
PLAN INFORMATION

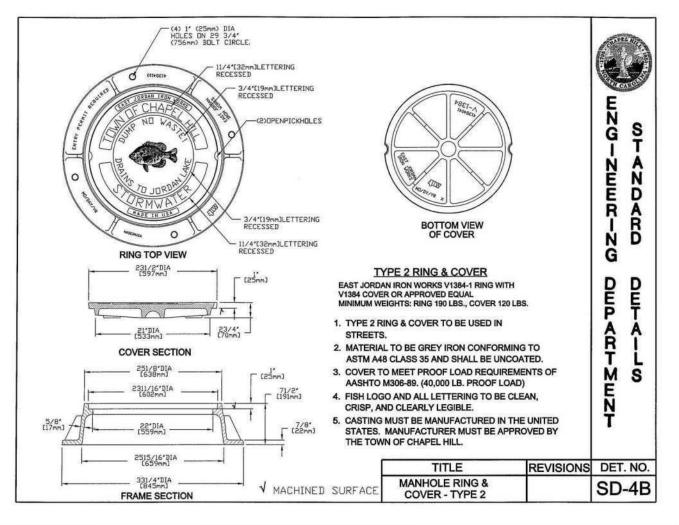
PROJECT NO. RAM-19000
FILENAME RAM19000-D1
CHECKED BY LAW
DRAWN BY MRO
SCALE N/A
DATE 11. 12. 2021
SHEET

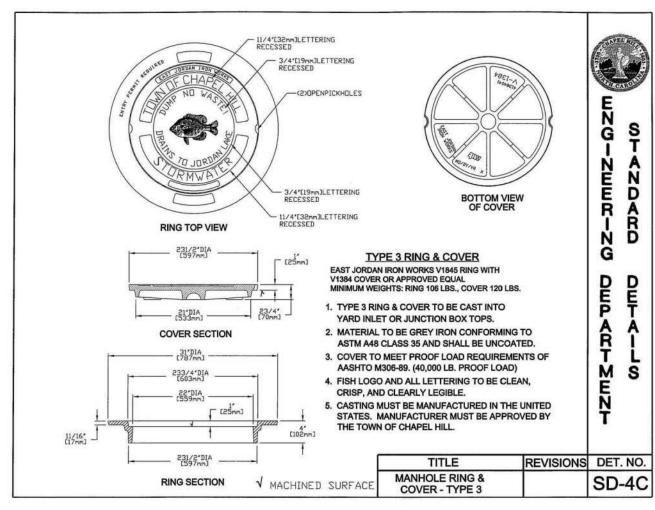
SITE DETAILS

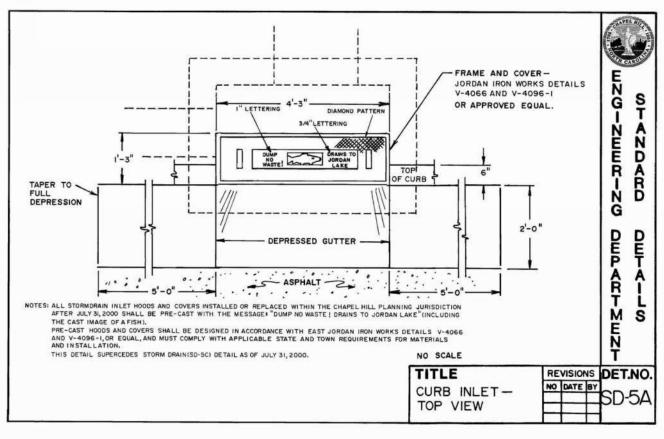
C8.00-1D

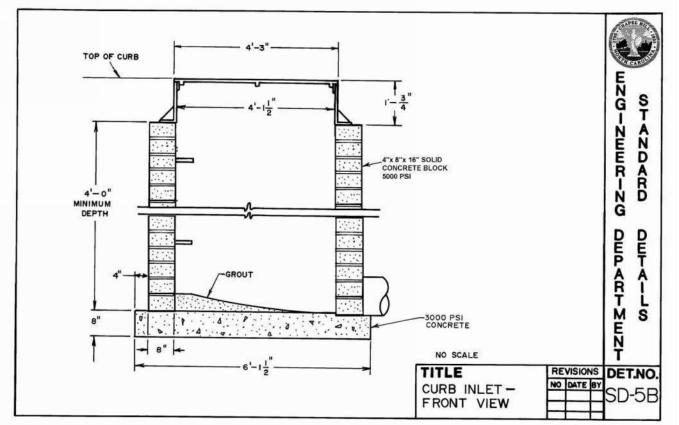


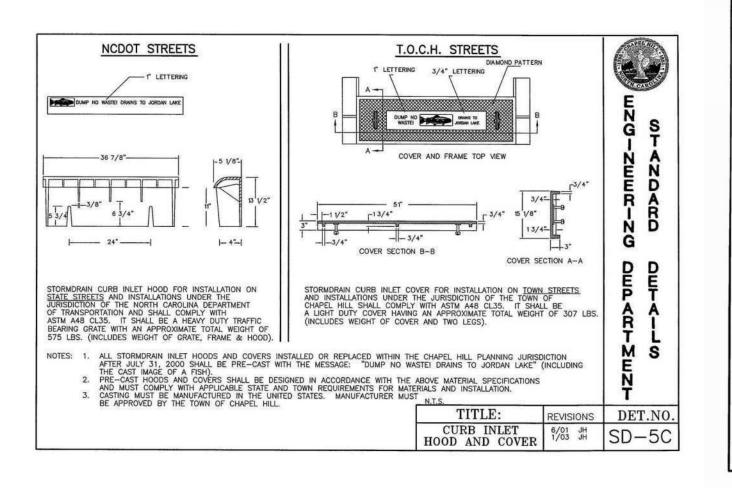


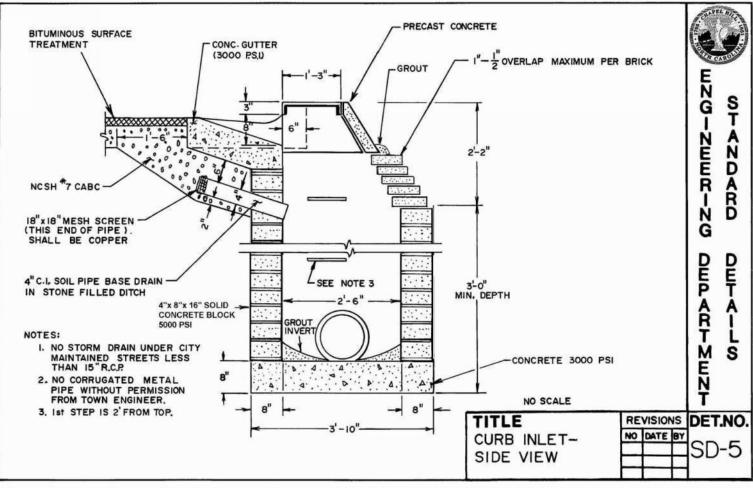


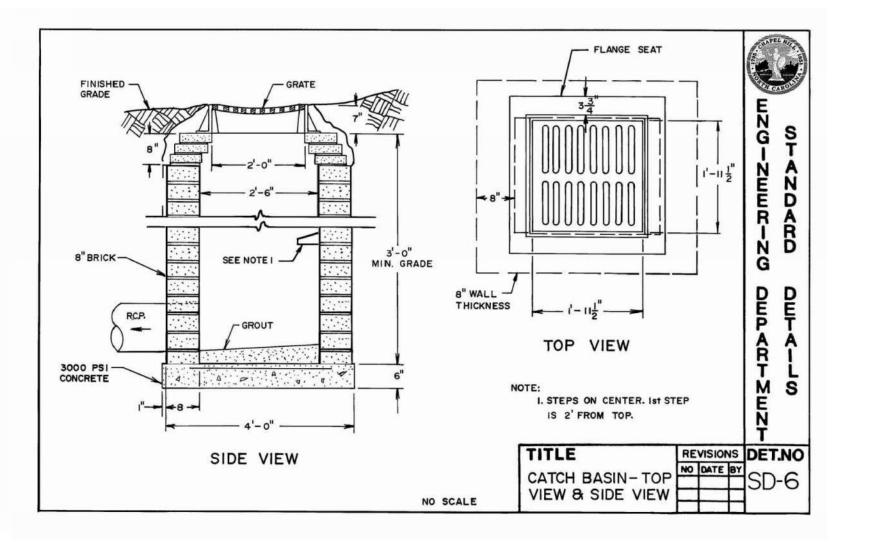














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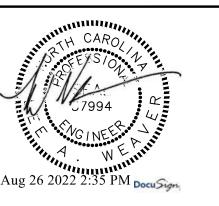
CLIENT

RAM REALTY

127 W. WORTHINGTON AVE, SUITE 290 CHARLOTTE, NORTH CAROLINA 28203



UNIVERSITY PLACE PHASE 1D ONING COMPLIANCE PERMIT



REVISIONS

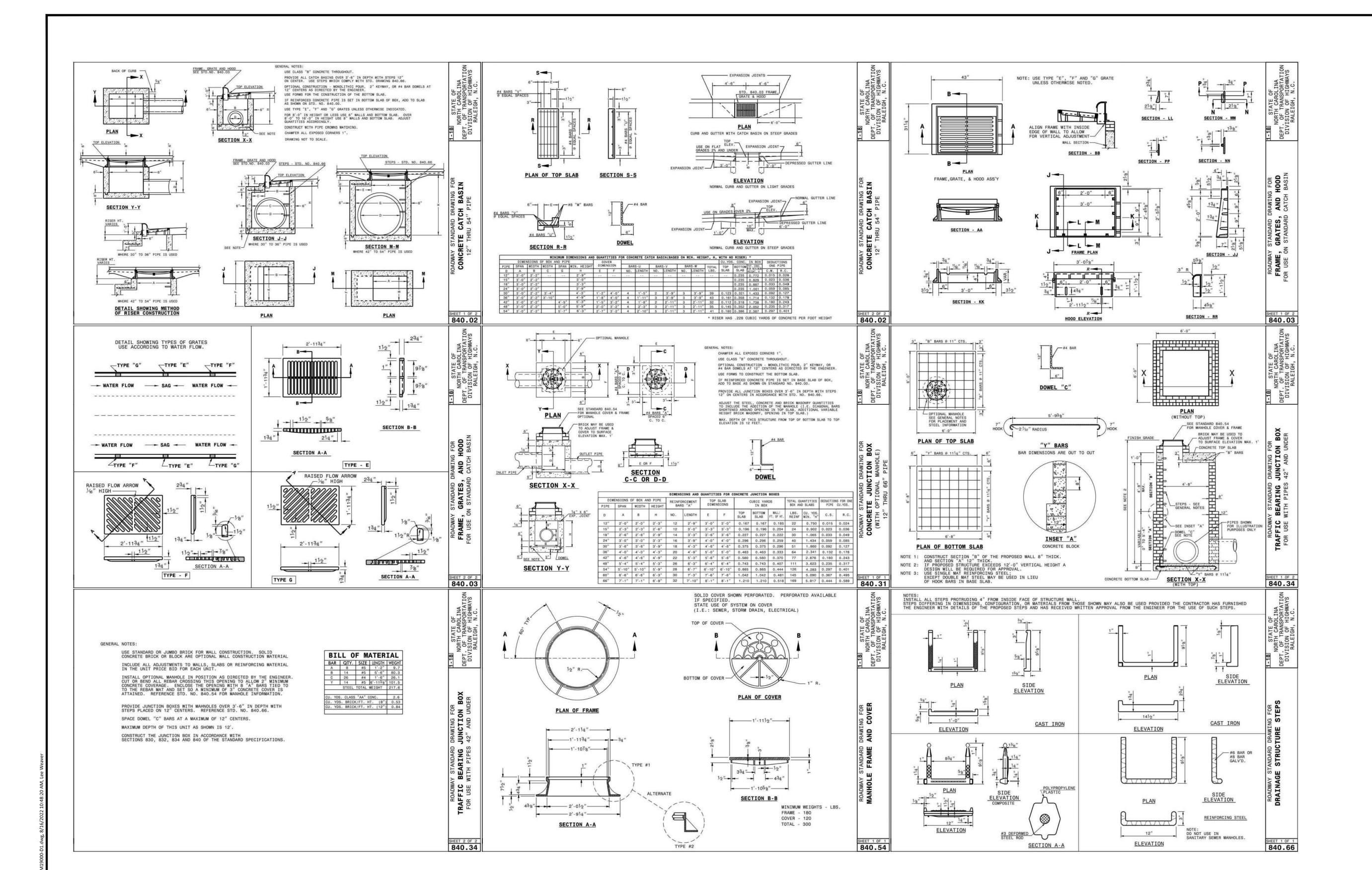
N0.	DATE	DECRIPTION
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3	08/16/2022	FINAL SUBMITTAL

PLAN INFORMATION

PROJECT NO. RAM-19000
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DATE 11. 12. 2021
SHEET

STORM DRAINAGE DETAILS

C8.01-1D





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Durham, NC 27713

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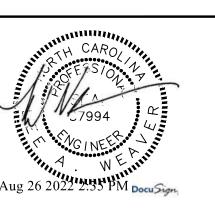
CLIENT

RAM REALTY

127 W. WORTHINGTON AVE, SUITE 290 CHARLOTTE, NORTH CAROLINA 28203



JNIVERSITY PLACE PHASE 1D IING COMPLIANCE PERMIT



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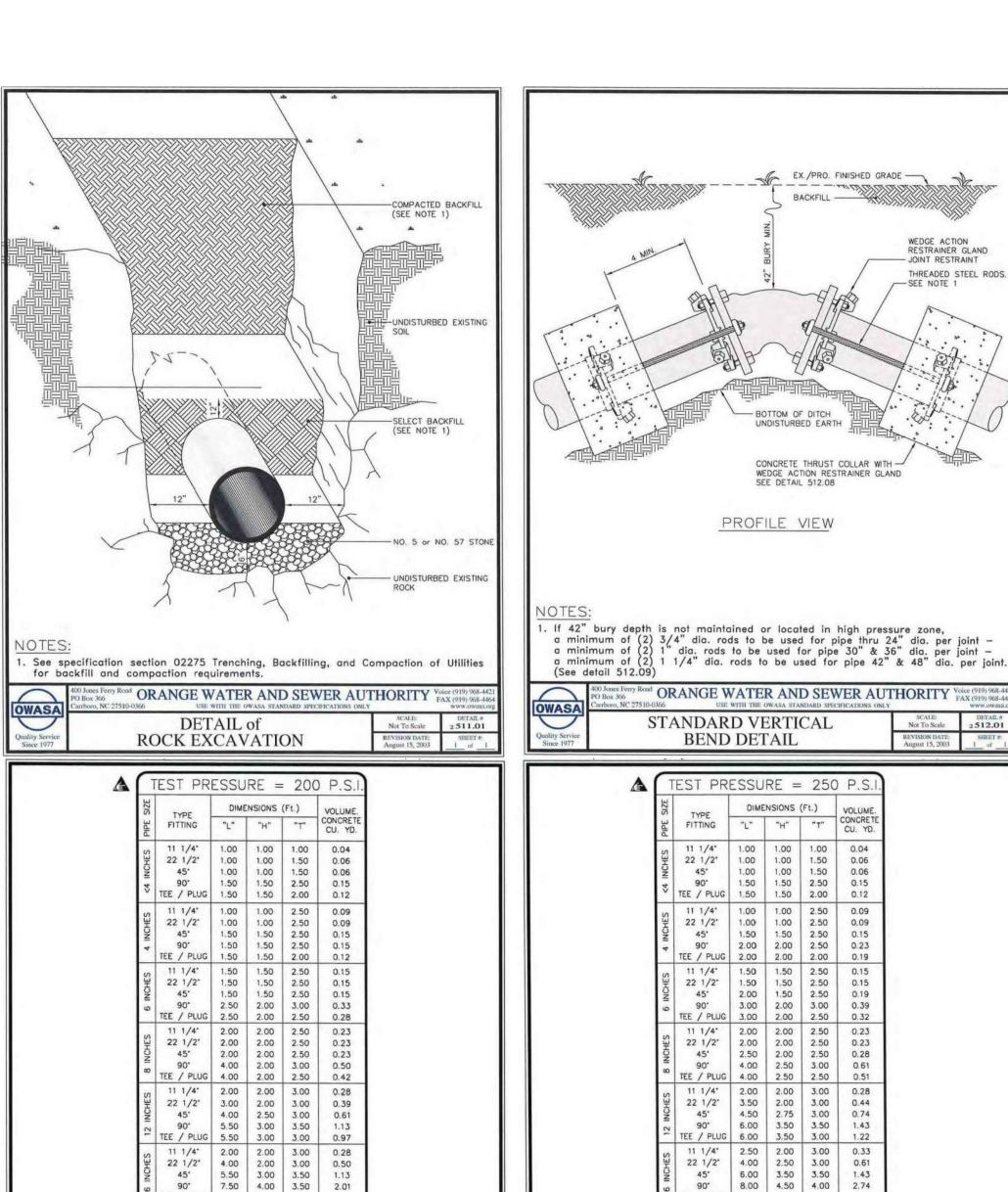
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SHEET

STORM DRAINAGE DETAILS

C8.02-1D



TEE / PLUG 7.50 4.00 3.00 1.72

If blocking excavation is in lightly compacted fill areas, or in areas where boulders or stumps have been removed, blocking size must be re-sized for the

ORANGE WATER AND SEWER AUTHORITY Voice (919) 9(

-LOCATE MARKER WITHIN RIGHT-OF-WAY

BY PIPE LINE SUPPLY (SANFORD, N.C.)

OR EASEMENT ALONG EDGE

SQUARE CONCRETE PAD -COMPACTED EARTH

VALVE BOX
—SEE DETAIL 513.01

-ASPHALT SURFACE

-USE TACK COAT BEFORE PLACING ASPHALT OVER

COMPACTED STONE

-COMPACTED EARTH

VALVE BOX MARKER POST

-SEE DETAIL 513.01 EXISTING/PROPOSED

specific location/circumstance by a NC licensed Professional Engineer.

. Blocking sizes shown in these tables assume the following:

b. Soil bearing pressure = 2000 psf
 c. Velocity of flow = 15 fps
 This detail not applicable to reducing bends.

a. Blocking is constructed in residual soils as shown in detail

BLOCKING DETAIL for

HORIZONTAL BENDS AND TEE

RIGHT-OF-WAY or EASEMENT

FIELD AND EASEMENT OR SIDE OF ROAD

LOCATION

IN STREET

VALVE BOX STABILIZING

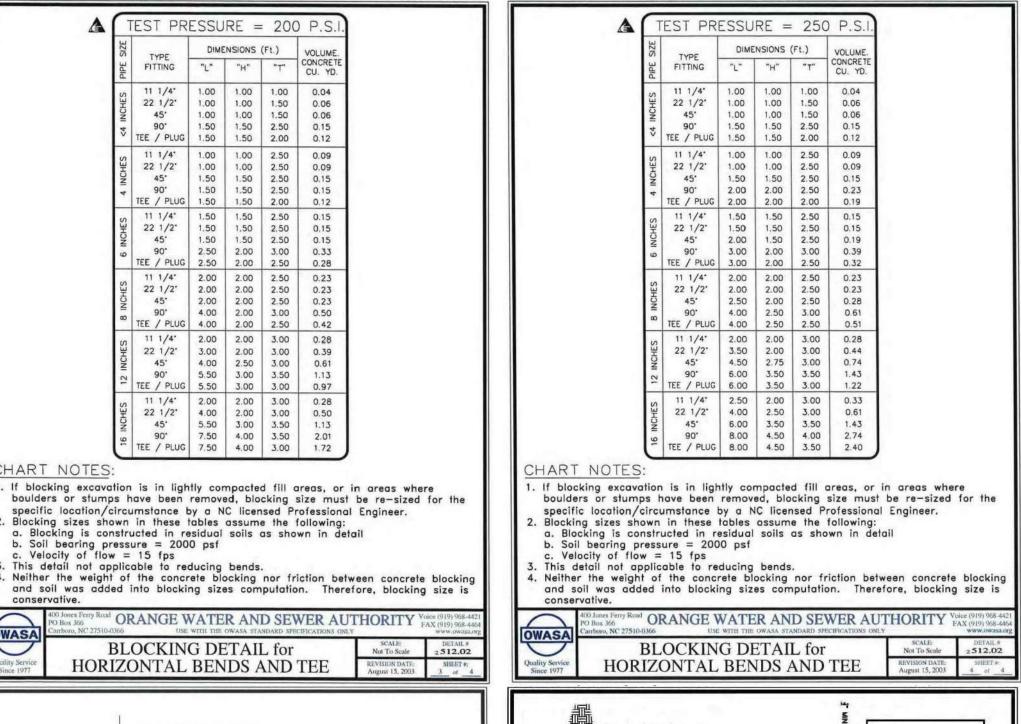
PAD DETAILS

ORANGE WATER AND SEWER AUTHORITY

1. Concrete to be minimum 3,000 PSI @ 28 days.

CHART NOTES

conservative.



WEDGE ACTION RESTRAINER GLAND JOINT RESTRAINT

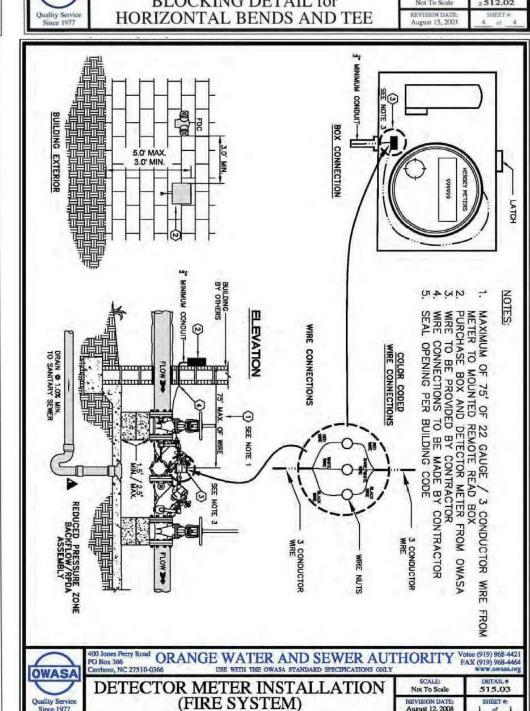
CONCRETE THRUST COLLAR WITH WEDGE ACTION RESTRAINER GLAND SEE DETAIL 512.08

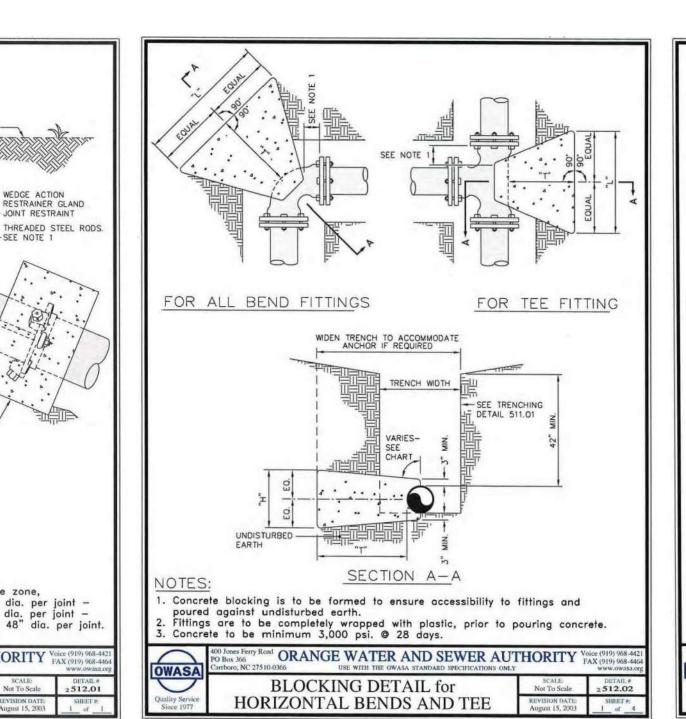
ORANGE WATER AND SEWER AUTHORITY VOICE FAX

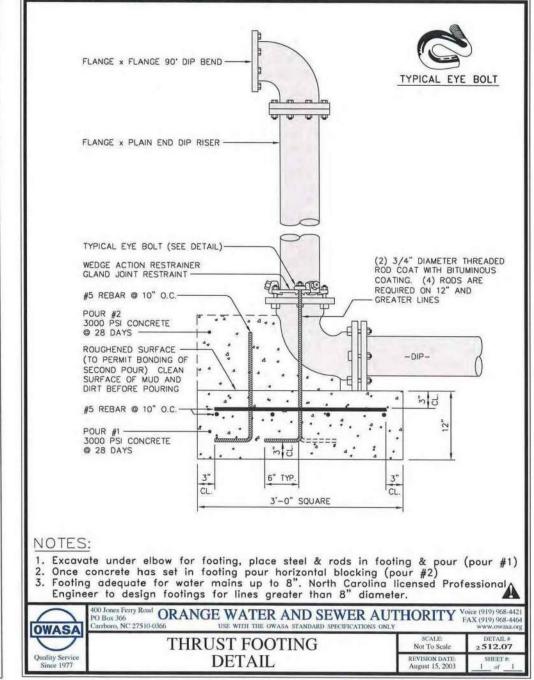
PROFILE VIEW

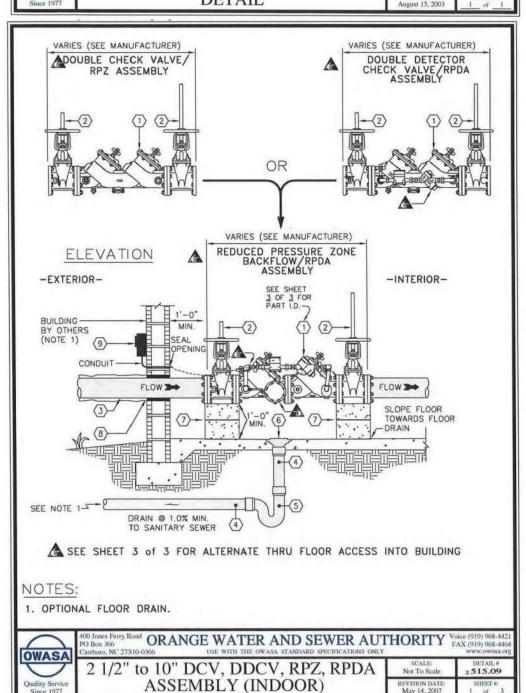
STANDARD VERTICAL

BEND DETAIL

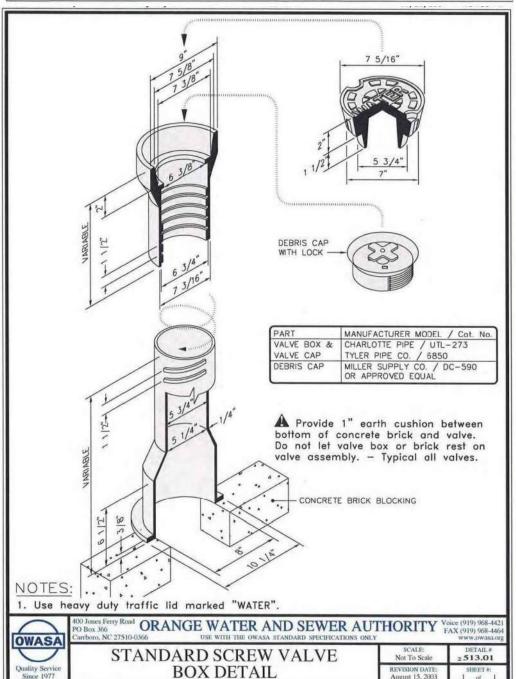


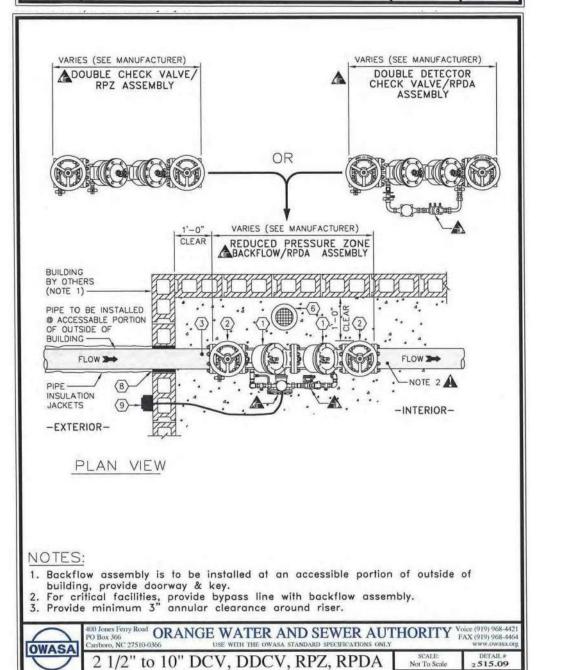






		SIZE	DIMENSIONS (Ft.)			VOLUME.		
### 1.00 1.00 1.50 0.06 ### 1.00 1.00 1.50 0.06 ### 1.00 1.00 2.50 0.09 ### 1.00 1.00 2.50 0.09 ### 1.00 1.00 2.50 0.09 ### 1.00 1.00 2.50 0.09 ### 1.00 1.00 2.50 0.09 ### 1.00 1.00 2.50 0.09 ### 1.00 1.00 2.50 0.09 ### 1.00 1.50 1.50 2.50 0.15 ### 1.50 1.50 2.50				"L"	"н"	"т"	CONCRETE	
11 1/4 1.50 1.50 2.50 0.09			22 1/2* 45* 90*	1.00 1.00 1.00	1.00 1.00 1.00	1.50 1.50 2.50	0.06 0.06 0.09	
11 1/4' 2.00 2.00 3.00 0.28			22 1/2° 45° 90°	1.00 1.00 1.50	1.00 1.00 1.50	2.50 2.50 2.50	0.09 0.09 0.15	
ST			22 1/2° 45° 90°	1.50 1.50 2.00	1.50 1.50 2.00	2.50 2.50 3.00	0.15 0.15 0.28	
ART NOTES: blocking excavation is in lightly compacted fill areas, or in areas where oulders or stumps have been removed, blocking size must be re-sized for pecific location/circumstance by a NC licensed Professional Engineer. locking sizes shown in these tables assume the following: Blocking is constructed in residual soils as shown in detail Soil bearing pressure = 2000 psf Velocity of flow = 15 fps his detail not applicable to reducing bends. leither the weight of the concrete blocking sizes added into blocking sizes computation. Therefore, blocking size holds in the concrete blocking not friction between concrete blocking was added into blocking sizes computation. Therefore, blocking sizes added into blocking sizes computation. Therefore, blocking sizes computation.		1000	22 1/2° 45° 90°	2.00 2.00 3.00	2.00 2.00 2.00	2.50 2.75 3.00	0.23 0.25 0.39	
ART NOTES: blocking excavation is in lightly compacted fill areas, or in areas where oulders or stumps have been removed, blocking size must be re-sized for pecific location/circumstance by a NC licensed Professional Engineer. locking sizes shown in these tables assume the following: Blocking is constructed in residual soils as shown in detail Soil bearing pressure = 2000 psf Velocity of flow = 15 fps his detail not applicable to reducing bends. leither the weight of the concrete blocking nor friction between concrete blocking was added into blocking sizes computation. Therefore, blocking sizes			22 1/2* 45* 90*	2.00 3.00 4.50	2.00 2.50 3.00	3.00 3.00 3.50	0.28 0.47 0.94	
blocking excavation is in lightly compacted fill areas, or in areas where oulders or stumps have been removed, blocking size must be re-sized for pecific location/circumstance by a NC licensed Professional Engineer. locking sizes shown in these tables assume the following: Blocking is constructed in residual soils as shown in detail Soil bearing pressure = 2000 psf Velocity of flow = 15 fps his detail not applicable to reducing bends. leither the weight of the concrete blocking nor friction between concrete blocking was added into blocking sizes computation. Therefore, blocking sizes			22 1/2* 45* 90*	3.00 4.00 6.50	2.00 3.00 3.50	3.00 3.50 3.50	0.39 0.84 1.54	
	blocking excava oulders or stump pecific location/o llocking sizes sho blocking is cor soll bearing pr Velocity of flow this detail not ap leither the weight	tion circum nstr ress w =	mave been umstance to in these to ucted in re ure = 200 15 fps able to rec the concr	remove by a N tables esidual 0 psf ducing	ed, blo C licer assum soils bends ocking	cking used P e the as sho	size must rofessiona following: own in de riction bet	t be re-sized for il Engineer. tail ween concrete blo
BLOCKING DETAIL for SCALE NOT TO SCALE 2.5	SA Carrboro, NC 275104	0300	USE				ECIFICATIONS ON	





ASSEMBLY (INDOOR)

REVISION DATE: SHEET #:
August 15, 2003 1 of



MCADAMS

The John R. McAdams Company, Inc.

2905 Meridian Parkway

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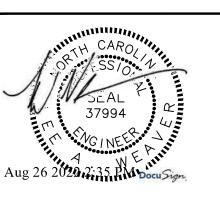
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CLIENT

RAM REALTY

127 W. WORTHINGTON AVE, SUITE 290 CHARLOTTE, NORTH CAROLINA 28203





REVISIONS

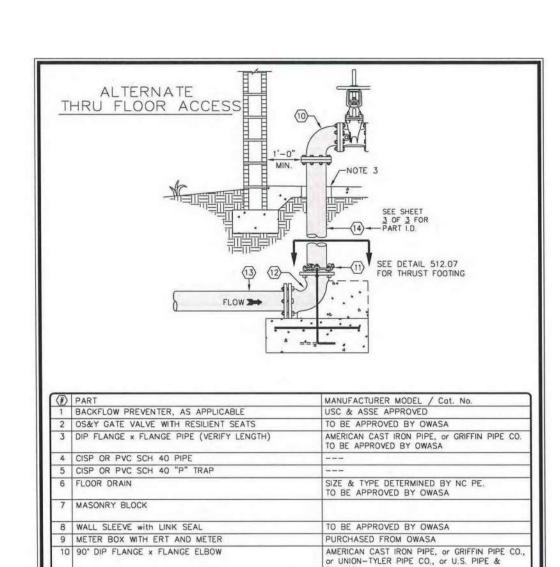
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PLAN INFORMATION

SHEET	
DATE	11. 12. 2021
SCALE	N/A
DRAWN BY	MRO
CHECKED BY	LAW
FILENAME	RAM19000-D
PROJECT NO.	RAM-19000

OWASA DETAILS

C8.03-1D



11 WEDGE ACTION RESTRAINER GLAND JOINT RESTRAINT

13 DIP FLANGE x PE PIPE (VERIFY LENGTH)

12 90' DIP MJ x MJ ELBOW

14 3" THRU 10" DIP

EBAA IRON SALES, INC. , FORE

ORANGE WATER AND SEWER AUTHORITY

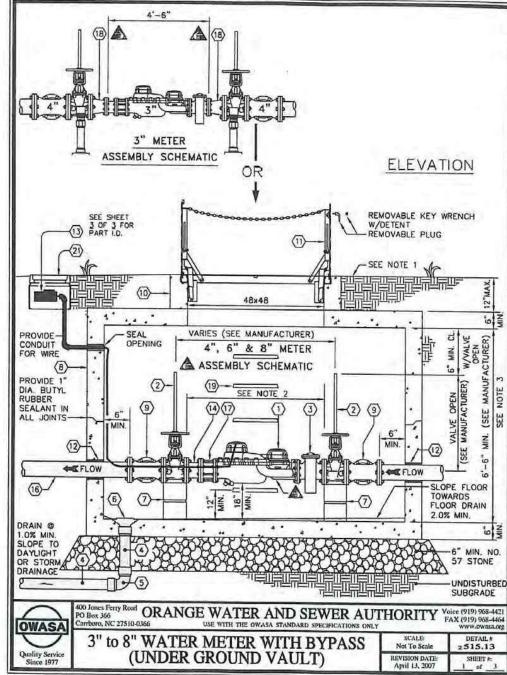
2 1/2" to 10" DCV, DDCV, RPZ, RPDA SCALE NOT TO Scale

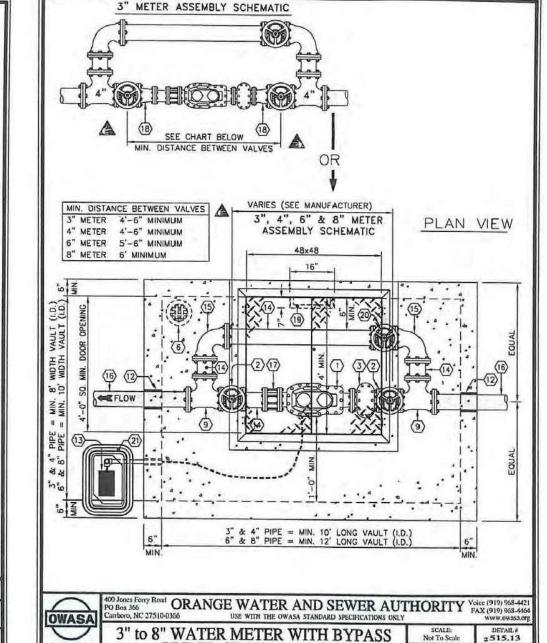
ASSEMBLY (INDOOR)

AMERICAN CAST IRON PIPE, GRIFFIN PIPE CO., UNION-TYLER PIPE CO., U.S. PIPE & FOUNDRY AMERICAN CAST IRON PIPE, GRIFFIN PIPE CO.,

UNION-TYLER PIPE CO., U.S. PIPE & FOUND

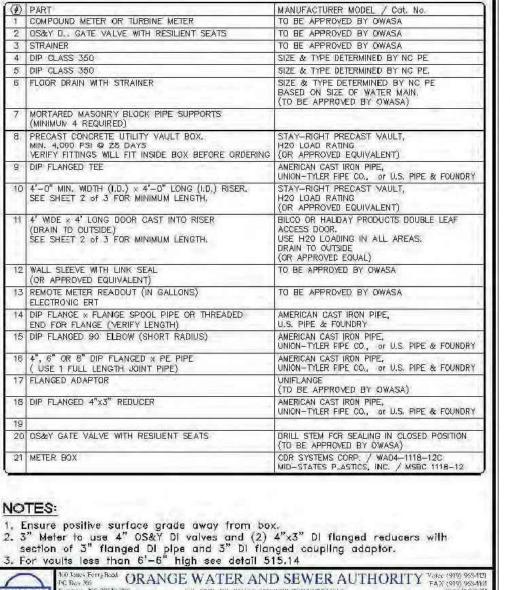
AMERICAN CAST IRON PIPE, GRIFFIN PIPE CO., UNION-TYLER PIPE CO., U.S. PIPE & FOUNDRY





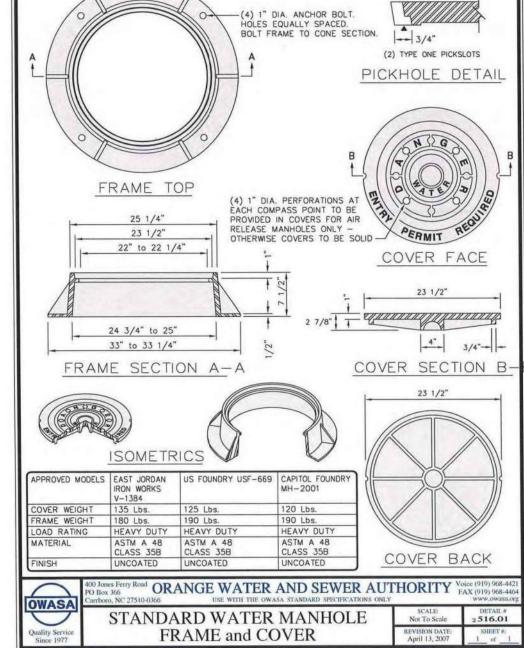
(UNDER GROUND VAULT)

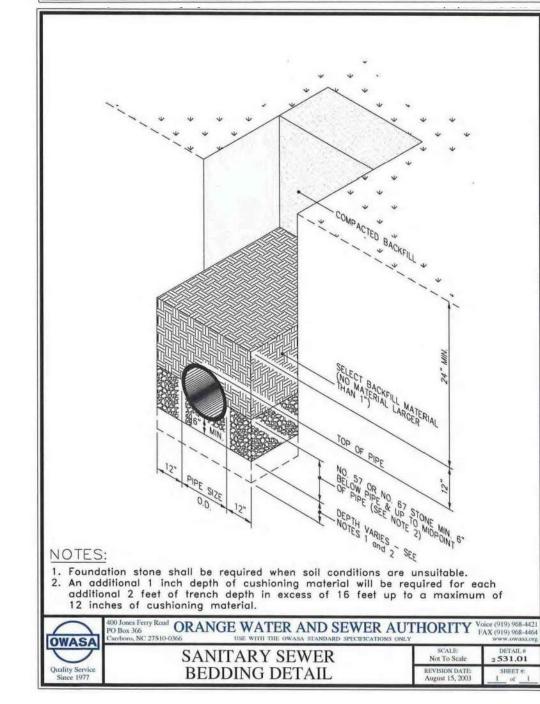
REVISION DATE: SHEET 4: April 13, 2007 2 of 3

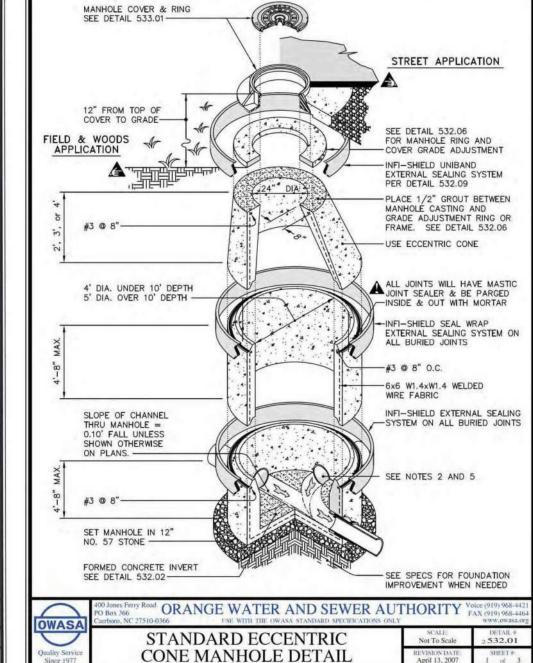


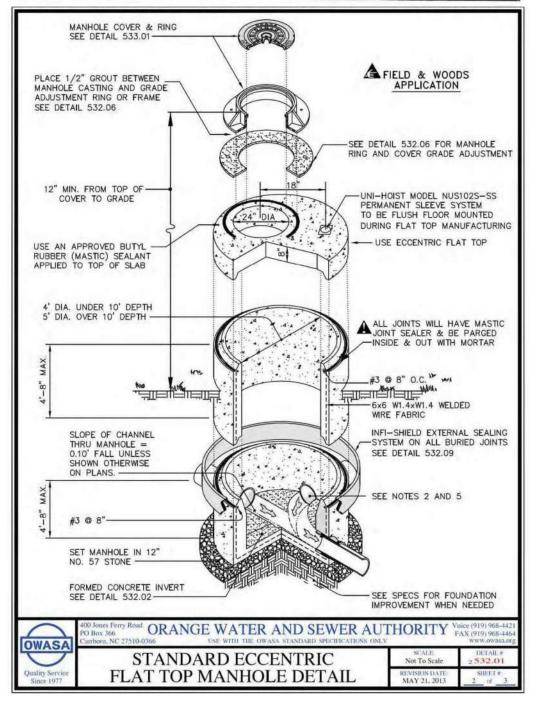
3" to 8" WATER METER WITH BYPASS | Not To Scale

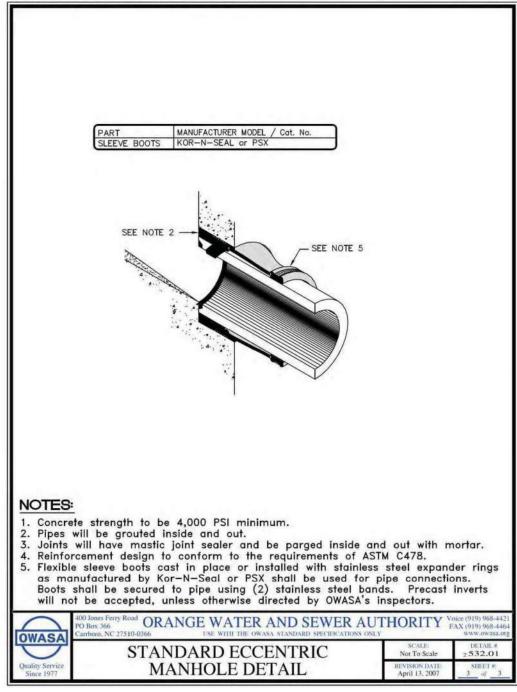
(UNDER GROUND VAULT)

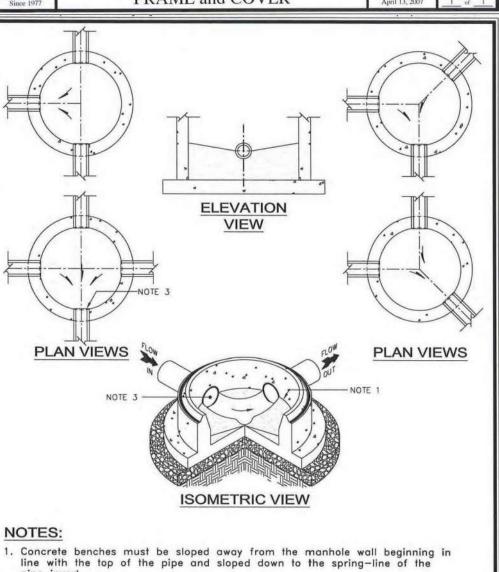










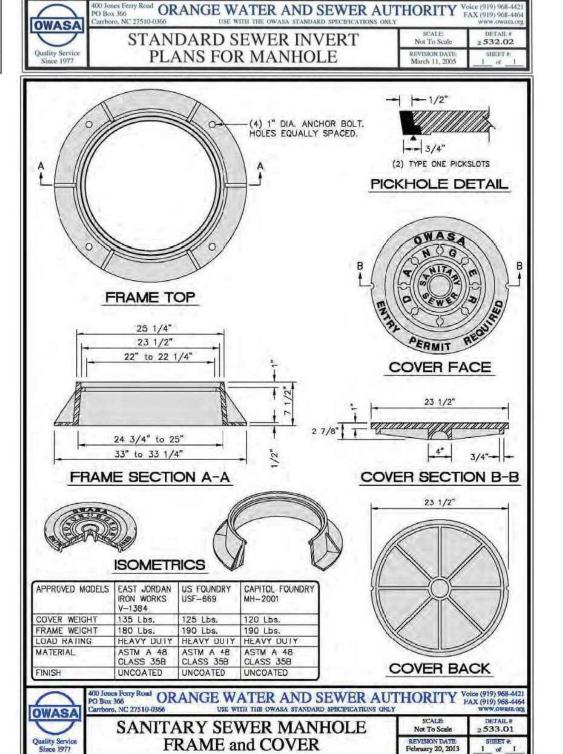


. Service line entries to have cast in place troughs.

and TV equipment.

5. Radius of invert must have enough room to be able to insert air plugs

ORANGE WATER AND SEWER AUTHORITY





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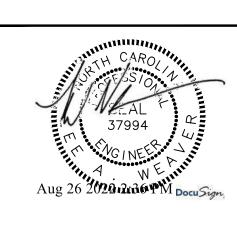
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127 W. WORTHINGTON AVE, SUITE 290

CHARLOTTE, NORTH CAROLINA 28203

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RAM REALTY



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PROJECT NO.	RAM-19000

OWASA DETAILS

C8.04-1D

STORMWATER CONTROL MEASURE 'A' CONSTRUCTION SPECIFICATIONS

GENERAL NOTES

- PRIOR TO CONSTRUCTION, ANY DISCREPANCIES IN THE PLANS AND NOTES SHALL BE BROUGHT TO THE DESIGN NGINEER'S ATTENTION IMMEDIATELY
- THE FINAL CERTIFICATION FOR THIS FACILITY WILL INCLUDE A CERTIFICATION BY THE ON-SITE GEOTECHNICAL ENGINEER THAT THE PROJECT WAS CONSTRUCTED PER THE APPROVED PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE ON-SITE GEOTECHNICAL ENGINEER FOR OBSERVATION AND TESTING SUCH THAT THE ON-SITE GEOTECHNICAL ENGINEER CAN CERTIFY THE CONSTRUCTION OF THE DAM EMBANKMENT AND SPILLWAY. THIS CERTIFICATION MUST ADDRESS THE TESTING FOR MATERIALS AND COMPACTION OF THE DAM EMBANKMENT AND SPILLWAY.
- ALL CONSTRUCTION ACTIVITY RELATED TO THE PROPOSED STORMWATER CONTROL MEASURE SHALL BE PER THE DETAILS AND SPECIFICATIONS SHOWN IN THESE DRAWINGS. SOILS, COMPACTION, AND OTHER MISCELLANEOUS DETAILS AND SPECIFICATIONS MAY BE MODIFIED PER THE RECOMMENDATIONS OF THE ON-SITE GEOTECHNICAL ENGINEER, HOWEVER, PRIOR TO IMPLEMENTATION, THE DESIGN ENGINEER SHALL BE NOTIFIED OF ANY DEVIATION FROM THESE DESIGN DRAWINGS, INCLUDING SHOP DRAWINGS FOR ANY PROPOSED MODIFICATION.
- DURING THE INITIAL STAGES OF CONSTRUCTION, THE STORMWATER CONTROL MEASURE MAY BE USED AS A SEDIMENT BASIN FOR EROSION CONTROL PURPOSES. IF SO, THE CONTRACTOR SHALL FOLLOW THE GENERAL CONSTRUCTION SEQUENCE BELOW: A. THE CONTRACTOR SHALL CONSTRUCT THE ENTIRE FACILITY (PERMANENT OUTLET STRUCTURE, DAM, KEY TRENCH, ETC.) WITH THE EXCEPTION OF THE INTERIOR FINE GRADING AND THE TOPSOIL FOR THE FACILITY. THE INTERIOR FINE GRADING AND TOPSOIL WILL BE CONSTRUCTED ONCE THE EROSION CONTROL PHASE IS COMPLETE.
- B. HORSESHOE INLET PROTECTION SHALL BE INSTALL AROUND THE RISER STRUCTURE. C. ONCE THE UPSTREAM DRAINAGE AREA IS STABILIZED AND THE EROSION CONTROL INSPECTOR APPROVES THE REMOVAL OF THE SEDIMENT BASIN, THE CONTRACTOR SHALL REMOVE THE TEMPORARY DRAW DOWN RISER (OR SKIMMER) AND CLEAN OUT THE BASIN. ALL SEDIMENT, TRASH, ETC. SHALL BE DISPOSED OF PROPERLY (I.E. - PLACED IN A LANDFILL) AND NOT STOCKPILED IN AN AREA WHERE
- WATER QUALITY COULD BE ADVERSELY AFFECTED. D. ONCE THE BASIN IS CLEANED OUT, AND ALL EROSION CONTROL DEVICES REMOVED, THE CONTRACTOR SHALL CONSTRUCT THE INTERIOR GRADING SHOWN ON THIS SHEET.
- E. ONCE THE GRADING IS COMPLETE, THE CONTRACTOR SHALL REQUEST AN ON-SITE INSPECTION AND AN AS-BUILT SURVEY PRIOR TO INSTALLATION OF THE STORMWATER CONTROL MEASURE PLANTS. IF THE CONTRACTOR PLANTS THE PROPOSED VEGETATION PRIOR TO AN AS-BUILT SURVEY (AND SUBSEQUENT APPROVAL), ANY CHANGES TO THE GRADING / RE-PLANTING OF PLANTS WILL BE AT THE
- F. ONCE THE ENGINEER HAS APPROVED THE AS-BUILT GRADING, THE CONTRACTOR SHALL PLANT THE PROPOSED STORMWATER CONTROL MEASURE PLANTS SHOWN ON THE LANDSCAPE PLAN FOR THE FACILITY. AFTER COMPLETION OF THE PLANTING, THE LANDSCAPE CONTRACTOR SHALL PROVIDE A LETTER TO THE ENGINEER CERTIFYING THAT THE PLANTS HAVE BEEN INSTALLED PER THE APPROVED STORMWATER CONTROL MEASURE PLANTING PLAN. THE CONTRACTOR SHALL PROVIDE A ONE-YEAR WARRANTY FOR ALL
- ALL OSHA REQUIREMENTS FOR EXCAVATIONS (SHORING, DEPTH, ETC.) ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF REQUIRED, THE CONTRACTOR SHALL PROVIDE AN EXCAVATION PLAN TO BE SEALED BY A NC P.E. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE IF AN EXCAVATION PLAN IS REQUIRED. THE JOHN R. MCADAMS COMPANY ASSUMES NO RESPONSIBILITY FOR ANY EXCAVATION DESIGN RELATED TO SAFETY OR OSHA REQUIREMENTS.
- ON-SITE GEOTECHNICAL ENGINEER TO DETERMINE IF IN-SITU SOILS ENCOUNTERED WOULD MAINTAIN A STORMWATER CONTROL MEASURE PERMANENT POOL AT DESIGN ELEVATION. IF HIGHLY PERMEABLE SOILS ARE ENCOUNTERED THAT WOULD NOT MAINTAIN THE PERMANENT POOL ELEVATION AS DESIGNED. A CLAY LINER MAY BE REQUIRED TO MAINTAIN A PERMANENT POOL OF WATER IN THE STORMWATER CONTROL MEASURE. FINAL DETERMINATION IF A CLAY LINER IS NEEDED SHALL BE THE RESPONSIBILITY OF THE ON-SITE GEOTECHNICAL ENGINEER. UPON DETERMINATION OF HIGHLY PERMEABLE SOIL CONDITIONS, ON-SITE GEOTECHNICAL ENGINEER WILL INFORM THE DESIGN ENGINEER AND RECOMMEND LINER SPECIFICATIONS.
- IT IS ANTICIPATED THAT DEWATERING WILL BE NECESSARY IN THE EXCAVATION AREAS (E.G. EMBANKMENT SUB GRADE, INTERIOR PORTIONS OF THE STORMWATER CONTROL MEASURE, KEY TRENCH, ETC.). THEREFORE, THE CONTRACTOR SHALL FURNISH, INSTALL OPERATE, AND MAINTAIN ANY PUMPING EQUIPMENT, ETC. NEEDED FOR REMOVAL OF WATER FROM VARIOUS PARTS OF THE STORMWATER CONTROL MEASURE SITE, DURING PLACEMENT OF FILL WITHIN THESE AREAS, THE CONTRACTOR SHALL KEEP THE WATER LEVEL BELOW THE BOTTOM OF THE EXCAVATION / CONSTRUCTION AREAS. THE MANNER IN WHICH THE WATER IS REMOVED SHALL BE SUCH THAT THE EXCAVATION BOTTOM AND SIDE SLOPES ARE STABLE, WITH NO SEDIMENT DISCHARGED FROM THE SITE (I.E. PUMPED WATER MAY NEED TO BE DIRECTED TO AN APPROVED EROSION CONTROL DEVICE SUCH AS A DIRT BAG (ACF ENVIRONMENTAL), OR ENGINEER APPROVED EQUIVALENT, PRIOR TO DISCHARGE).
- THE GRADES SHOWN ON THIS PLAN ARE FINISHED GRADES. IF THE EXISTING SOIL LAYER AFTER CONSTRUCTION / COMPACTION IS NOT DETERMINED SUITABLE BY A LANDSCAPE PROFESSIONAL FOR THE WETLAND PLANTINGS, THEN THE CONTRACTOR SHALL AMEND THE PLANTING AREA OF THE WETLAND AS DIRECTED BY A LANDSCAPE PROFESSIONAL
- 10. PRIOR TO TOPSOIL INSTALLATION, THE CONTRACTOR SHALL SCARIFY THE TOP 2"-3" OF THE BERM SECTION TO PROMOTE BONDING OF THE TOPSOIL WITH THE COMPACTED FILL. THE TOPSOIL DEPTH SHALL RANGE FROM 3"-4" ON THE DAM EMBANKMENT AND WETLAND. PLEASE NOTE THE TOPSOIL SHALL BE AMENDED, AS DIRECTED BY A LANDSCAPE PROFESSIONAL, PRIOR TO INSTALLATION ON THE
- 11. THE CONTRACTOR SHALL REFER TO THE LANDSCAPE PLAN FOR THE PERMANENT PLANTING PLAN/SCHEDULE FOR THIS FACILITY. CONTRACTOR SHALL COORDINATE WITH A LANDSCAPE PROFESSIONAL REGARDING SCHEDULING FOR PLANT INSTALLATION. PLEASE NOTE THAT NO TREES/SHRUBS OF ANY TYPE MAY BE PLANTED ON THE PROPOSED DAM EMBANKMENT (FILL AREAS).

OUTLET STRUCTURE MATERIAL SPECIFICATIONS

- THE 24" Ø RCP OUTLET BARREL SHALL BE CLASS III RCP. MODIFIED BELL AND SPIGOT, MEETING THE REQUIREMENTS OF ASTM C76-LATEST. THE PIPES SHALL HAVE CONFINED O-RING RUBBER GASKET JOINTS MEETING ASTM C-443-LATEST. THE PIPE JOINTS SHALL BE TYPE R-4
- THE STRUCTURAL DESIGN FOR THE 4' X 4' (INTERNAL DIMENSIONS) RISER BOX WITH EXTENDED BASE SHALL BE BY OTHERS. PRIOR TO ORDERING THE STRUCTURES, THE CONTRACTOR SHALL PROVIDE, TO THE DESIGN ENGINEER FOR REVIEW, SHOP DRAWINGS AND SUPPORTING STRUCTURAL CALCULATIONS SEALED BY A P.E. REGISTERED IN NORTH CAROLINA DEMONSTRATING THE PERTINENT VERTICAL LOADS ARE SUPPORTED BY THE CONCRETE RISER STRUCTURE
- THE RISER BOX OUTLET STRUCTURE SHALL BE PROVIDED WITH STEPS 16" ON CENTER. STEPS SHALL BE PROVIDED ON THE INNER WALL OF THE RISER BOX. STEPS SHALL BE IN ACCORDANCE WITH NCDOT STD. 840.66. PLEASE REFER TO SHEET C9.01A FOR LOCATION OF THE RISER STEPS. NOTE THE STEPS SHALL LINE UP WITH THE ACCESS HATCH OF THE TRASH RACK.
- THE CONCRETE ANTI-FLOTATION BLOCK SHALL BE CAST-IN-PLACE. STEEL REINFORCEMENT AND CONNECTION TO THE RISER SHALL BE PROVIDED IN ACCORDANCE WITH THE DETAIL ON SHEET CO.O.A. THE CONTRACTOR SHALL ENSURE THE WEIGHT OF THE ENTIRE RISER STRUCTURE IS GREATER THAN OR EQUAL TO 5,730 LBS. IN LIEU OF CAST-IN-PLACE, THE CONTRACTOR MAY OPT FOR A PRECAST ANTI-FLOTATION BLOCK. SHOP DRAWINGS FOR THE PRECAST BLOCK SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. THE PRECAST ANTI-FLOTATION BLOCK SHALL HAVE A SHIPPING WEIGHT OF 14,818 LBS.
- THE RISER BOX JOINTS SHALL BE SEALED USING BUTYL RUBBER SEALANT CONFORMING TO ASTM-C990-LATEST. IF NECESSARY, THE CONTRACTOR SHALL INCORPORATE A WATERSTOP INTO THE RISER BOX JOINT TO ENSURE A WATERTIGHT CONNECTION. THE CONTRACTOR SHALL PARGE JOINTS ON BOTH THE INSIDE AND OUTSIDE WITH NON-SHRINK GROUT. JOINT STRAPS SHALL BE PROVIDED PER THE DETAIL ON
- PRIOR TO ORDERING, THE CONTRACTOR SHALL SUBMIT TRASH RACK SHOP DRAWINGS TO THE ENGINEER FOR REVIEW. CONTRACTOR SHALL ENSURE THAT AN ACCESS HATCH IS PROVIDED WITHIN THE TRASH RACK (SEE DETAIL FOR LOCATION) THAT WILL ALLOW FOR FUTURE MAINTENANCE ACCESS. CONTRACTOR SHALL ALSO PROVIDE A CHAIN AND LOCK FOR SECURING THE ACCESS HATCH. NOTE THE ACCESS HATCH SHALL LINE UP WITH THE ACCESS STEPS AFTER INSTALLATION.
- 8. ALL POURED CONCRETE SHALL MEET THE FOLLOWING SPECIFICATIONS UNLESS OTHERWISE NOTED: -MINIMUM 3000 PSI (28 DAY)

-SLUMP = 3" - 5"

-ENTRAINED AIR = 5% - 7%

PLEASE NOTE NO CONCRETE SHALL BE POURED WHEN THE AMBIENT AIR TEMPERATURES ARE EXPECTED TO BE ABOVE 85°F OR BELOW 40°F. CAST-IN-PLACE CONCRETE SHALL BE "WET CURED" AFTER FINISHING FOR A MINIMUM OF 48 HOURS.

ON-SITE GEOTECHNICAL ENGINEER TO ENSURE AND CERTIFY ALL POURED CONCRETE MEETS THE ABOVE SPECIFICATIONS.

GEOTEXTILE FABRIC FOR THE 24" ORCP OUTLET BARREL JOINTS SHALL BE MIRAFI 180N OR ENGINEER APPROVED EQUAL (NON-WOVEN

- PRIOR TO CONSTRUCTION, THE OWNER SHALL OBTAIN A LAND DISTURBING (GRADING) PERMIT AND AN "APPROVAL TO CONSTRUCT" FROM THE TOWN OF CHAPEL HILL AND ALL OTHER NECESSARY PERMITS FROM APPLICABLE AGENCIES (E.G. 404 / 401 PERMITS)
- INSTALL ALL SEDIMENT AND EROSION CONTROL MEASURES PER THE APPROVED SEDIMENT AND EROSION CONTROL PLAN. THE CONTRACTOR SHALL MAINTAIN ALL APPROVED SEDIMENT AND EROSION CONTROL MEASURES THROUGHOUT THE ENTIRE PROJECT, AS REQUIRED. THE CONTRACTOR SHALL RECEIVE APPROVAL FROM THE EROSION CONTROL INSPECTOR, AS REQUIRED BY GOVERNING AGENCIES, PRIOR TO ANY CLEARING
- 3. CLEAR AND GRUB AREA WITHIN THE LIMITS OF THE PROPOSED DAM CONSTRUCTION. ALL TREES AND THEIR ENTIRE ROOT SYSTEMS MUST BE REMOVED FROM THE DAM FOOTPRINT AREA AND BACKFILLED WITH SUITABLE SOIL MATERIAL. THE BACKFILLED AREAS SHALL BE COMPACTED TO THE SAME STANDARDS AS THE DAM EMBANKMENT. THE REMAINING AREA OF THE EMBANKMENT SHALL BE STRIPPED TO A SUITABLE DEPTH AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER. ANY RESIDUAL SOILS TO BE LEFT IN PLACE MUST BE WELL SCARIFIED TO PROMOTE BONDING OF THE NEW EMBANKMENT FILL. NO EMBANKMENT MATERIAL SHALL BE PLACED FOR THE DAM OR KEY TRENCH UNTIL APPROVAL OF THE DAM SUBGRADE IS OBTAINED FROM THE ON-SITE GEOTECHNICAL ENGINEER.
- PRIOR TO INSTALLATION, SUBGRADE CONDITIONS ALONG THE SPILLWAY PIPES SHOULD BE EVALUATED BY THE ON-SITE GEOTECHNICAL ENGINEER TO ASSESS WHETHER SUITABLE BEARING CONDITIONS EXIST AT THE SUBGRADE LEVEL. SHOULD SOFT OR OTHERWISE UNSUITABLE CONDITIONS BE ENCOUNTERED ALONG THE PIPE ALIGNMENTS, THESE MATERIALS SHOULD BE UNDERCUT AS DIRECTED BY THE GEOTECHNICAL ENGINEER. THE UNDERCUT MATERIALS SHALL BE REPLACED WITH ADEQUATELY COMPACTED STRUCTURAL FILL, LEAN CONCRETE OR FLOWABLE FILL AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER.
- 5. BEGIN CONSTRUCTION OF THE NEW EMBANKMENT. FILL MATERIALS SHALL BE PLACED IN MAXIMUM 8" THICK LIFTS PRIOR TO COMPACTION, UNLESS DIRECTED OTHERWISE BY THE ON-SITE GEOTECHNICAL ENGINEER. FILL LIFTS SHALL BE CONTINUOUS OVER THE ENTIRE LENGTH OF FILL. IF IT IS NECESSARY, THE EMBANKMENT FILL MATERIAL WILL BE OVERBUILT IN HORIZONTAL LIFTS AND CUT BACK TO FINAL GRADE IN ORDER TO ACHIEVE PROPER COMPACTION.
- 6. CONSTRUCT EMBANKMENT PER SPECIFICATIONS LISTED IN THE SECTION TITLED "BERM AND SOIL COMPACTION SPECIFICATIONS" AND REQUIREMENTS OF THE ON-SITE GEOTECHNICAL ENGINEER. ALL CHARACTERISTICS OF THE EMBANKMENT FILL MATERIAL SHALL MEET THE STANDARDS SET FORTH IN "BERM AND SOIL COMPACTION SPECIFICATIONS", INCLUDING COMPACTION AND MOISTURE REQUIREMENTS, IF NECESSARY TO ACHIEVE PROPER COMPACTION. THE EMBANKMENT FILL MATERIAL WILL BE OVERBUILT IN HORIZONTAL LIFTS AND CUT BACK TO PROPER FINAL GRADE. ANY HAND COMPACTION ACTIVITIES AROUND SPILLWAY OR DRAIN STRUCTURES SHALL BE CONDUCTED IN 4-INCH LOOSE LIFTS AND BE TO THE SAME COMPACTION AND MOISTURE REQUIREMENTS AS THE ENTIRE EMBANKMENT. ALL COMPACTION AND MOISTURE TESTING SHALL BE CARRIED OUT AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER AND AS LISTED IN THE SECTION TITLED "BERM AND SOIL COMPACTION SPECIFICATIONS".
- 7. UPON COMPLETION OF DAM EMBANKMENT, PROMPTLY STABILIZE AND SEED DAM EMBANKMENT PER SEEDING SCHEDULE. PERMANENT GROUND COVER SHALL BE ESTABLISHED PER THE PERMANENT SEEDING SCHEDULE FOUND ON SHEET C9.00A
- 8. SCHEDULE A FINAL AS-BUILT INSPECTION AND AS-BUILT SURVEY WITH THE ENGINEER AND SURVEYOR. AN AS-BUILT INSPECTION AND SURVEY SHALL BE SCHEDULED BEFORE IMPOUNDING WATER IN THE FACILITY AND A MINIMUM OF 60 DAYS PRIOR TO THE ANTICIPATED DATE OF CERTIFICATION APPROVAL. ANY COMMENTS OR DEFICIENCIES IN THE SCM CONSTRUCTION MUST BE CORRECTED TO THE SATISFACTION OF THE ENGINEER AND OWNER BEFORE CERTIFICATION SHALL BE GRANTED.

BERM AND SOIL COMPACTION SPECIFICATIONS

- PRIOR TO CONSTRUCTION, THE ON-SITE GEOTECHNICAL ENGINEER SHALL IDENTIFY BORROW / FILL AREAS AND VERIFY THEIR SUITABILITY FOR USE WITHIN THE DAM EMBANKMENT. ALSO, THE ON-SITE GEOTECHNICAL ENGINEER SHALL PERFORM STANDARD PROCTORS ON THE PROPOSED BORROW MATERIAL TO ENSURE THAT OPTIMUM MOISTURE CONTENT AND COMPACTION CAN BE ACHIEVED / CONTROLLED
- 2. ALL FILL MATERIALS TO BE USED FOR THE DAM EMBANKMENT SHALL BE TAKEN FROM BORROW AREAS APPROVED BY THE ON-SITE GEOTECHNICAL ENGINEER. THE FILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS, WOOD, STONES GREATER THAN 6", AND FROZEN OR OTHER OBJECTIONABLE MATERIAL. THE FOLLOWING SOIL TYPES ARE SUITABLE FOR USE AS FILL WITHIN THE DAM EMBANKMENT AND KEY TRENCH: ML AND CL. ALL FILL MATERIALS SHALL BE APPROVED BY THE ONSITE GEOTECHNICAL ENGINEER FOR THE INTENDED USE.
- 3. FILL PLACEMENT FOR THE EMBANKMENT SHALL NOT EXCEED A MAXIMUM 8" LIFT (UNCOMPACTED). EACH LIFT SHALL BE CONTINUOUS FOR THE ENTIRE LENGTH OF EMBANKMENT. BEFORE PLACEMENT OF FILL FOR THE BERM SECTION, ALL UNSUITABLE MATERIAL SHALL BE REMOVED AND THE SURFACE PROPERLY PREPARED FOR FILL PLACEMENT. FILL MATERIAL ADJACENT TO ALL SPILLWAY AND DRAINAGE STRUCTURES SHALL BE PLACED IN 4-INCH (UNCOMPACTED) LIFTS AND HAND-COMPACTED TO THE SAME COMPACTION AND MOISTURE
- ALL FILL SOILS USED IN THE EMBANKMENT CONSTRUCTION SHALL BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698). THE FILL SOILS SHALL BE COMPACTED AT A MOISTURE CONTENT WITHIN -1 TO +3 PERCENT OF ITS OPTIMUM MOISTURE CONTENT. COMPACTION TESTS SHALL BE PERFORMED BY THE ON-SITE GEOTECHNICAL ENGINEER DURING CONSTRUCTION TO VERIFY THAT THE PROPER COMPACTION LEVEL HAS BEEN REACHED, THE FILL SHOULD BE COMPACTED USING A SHEEPSFOOT TYPE COMPACTOR. IN ORDER TO PREVENT DAMAGE TO THE PIPE, NO COMPACTION EQUIPMENT SHALL CROSS ANY PIPE UNTIL MINIMUM COVER IS ESTABLISHED ALONG THE PIPE.
- THE DESIGN ENGINEER SHALL BE PROVIDED WITH REPORTS AND CERTIFICATION, BY THE ON-SITE GEOTECHNICAL ENGINEER, THAT THE GEOTECHNICAL ASPECTS OF THE FACILITY HAVE BEEN CONSTRUCTED PER PLAN. THIS CERTIFICATION MUST ADDRESS THE TESTING FOR MATERIALS AND COMPACTION OF THE DAM EMBANKMENT AND SPILLWAY. THESE REPORTS AND CERTIFICATION WILL BE NEEDED DURING THE AS-BUILT CERTIFICATION PROCESS FOR THIS STORMWATER CONTROL MEASURE. THEREFORE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE TESTING AND OBSERVATION WITH THE ON-SITE GEOTECHNICAL ENGINEER.
- TESTING OF THE NEW FILL MATERIALS SHALL BE PERFORMED TO VERIFY THAT THE RECOMMENDED LEVEL OF COMPACTION IS ACHIEVED DURING CONSTRUCTION. THEREFORE, ONE DENSITY TEST SHALL BE PERFORMED FOR EVERY 2,500 SQUARE FEET OF AREA FOR EVERY LIFT OF FILL OR AS RECOMMENDED BY THE ON-SITE GEOTECHNICAL ENGINEER.
- TESTING WILL BE REQUIRED ALONG THE 24"Ø RCP OUTLET BARREL AT A FREQUENCY OF ONE TEST PER 25 LF OF PIPE PER VERTICAL FOOT OF FILL OR AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER.

Contour (Feet)	Stage (feet)	Contour Area (SF)	Average Contour Area (SF)	Incremental Contour Volume (CF)	Accumulated Contour Volume (CF)	Estimated Stage w/S-S Fxn (Feet)
254.00	0.00	4,046				
255.10	1.10	6,377	5,212	5,733	5,733	1.11
256.00	2.00	7,524	6,951	6,255	11,988	1.98
257.00	3.00	8,835	8,180	8,180	20,168	2.98
258.00	4.00	10,233	9,534	9,534	29,702	4.04

Zone	Elevation (ft)	Measured Area (sf)	Portion of Wetland Surface Area
Deep Pool - Forebay	253.50 to 251	690	10.80%
Deep Pool - Non Forebay	253.50 to 251	662	10.40%
Shallow Water	254 to 253.50	2,694	42.20%
Shallow Land	255.10 to 254	2,331	36.60%

TEMPORARY SEEDING SCHEDULE

120 LDS	100
120 LBS/	AC
40 LBS/A	AC
120 LBS/	/AC

SOIL AMENDMENTS FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/AC GROUND AGRICULTURE

LIMESTONE AND 750 LB/AC 10-10-10 FERTILIZER (FROM AUG 15 - DEC 30, INCREASE 10-10-10 FERTILIZER TO 1000 LB/AC).

APPLY 4000 LB/AC STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH

ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

PERMANENT SEEDING SCHEDULE.

REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE, AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

AUG 15 - DEC 30: REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOP DRESS WITH 50 LB/AC OF NITROGEN IN MARCH, IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LB/AC KOBE LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

NOTE: USE THE TEMPORARY SEEDING SCHEDULE ONLY WHEN DATE IS NOT CORRECT TO USE THE

PERMANENT SEEDING SCHEDULE (DAM EMBANKMENTS)

SEEDING DATE	SEEDING MIXTURE	APPLICATION
RATE		
AUG 25 - OCT (BEST)	TALL FESCUE	200 LBS/AC

FEB - APR 15 (POSSIBLE)

FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 4,000 LB/AC GROUND AGRICULTURE LIMESTONE AND 1000 LB/AC 10-10-10 FERTILIZER.

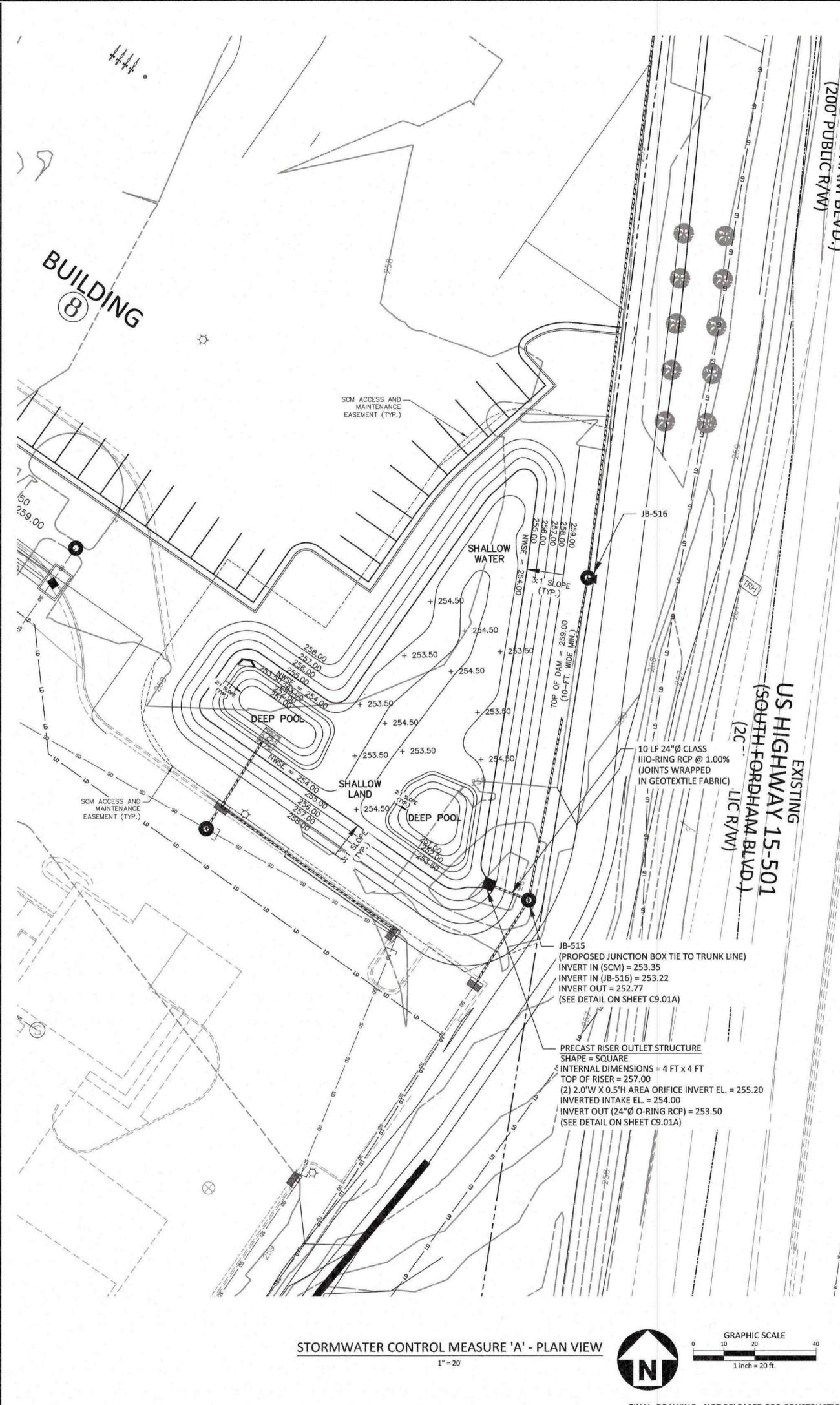
APPLY 4000 LB/AC STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING

INSPECT AND REPAIR MULCH FREQUENTLY. REFERTILIZE IN LATE WINTER OF THE FOLLOWING YEAR; USE SOIL TESTS OR APPLY 150 LB/AC 10-10-10 FERTLIZER. MOW REGULARLY TO A HEIGHT OF 2-4 INCHES.

NOTE: PERMANENT SEEDING SCHEDULE IS FOR SLOPES OF THE BASIN AND TOP OF BERM

STATEMENT OF RESPONSIBILITY

ALL REQUIRED MAINTENANCE AND INSPECTIONS OF THIS FACILITY SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER, PER THE EXECUTED OPERATION AND MAINTENANCE AGREEMENT FOR THIS FACILITY.





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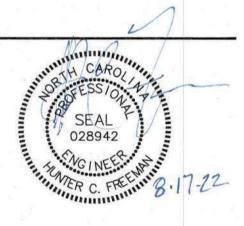
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license number: C-0293

RAM REALTY

127 W. WORTHINGTON AVE, SUITE 290 CHARLOTTE, NORTH CAROLINA 28203





REVISIONS

NO. DATE DECRIPTION 04/22/2022 REVISED PER TOCH COMMENTS 2 06/29/2022 REVISED PER TOCH COMMENTS

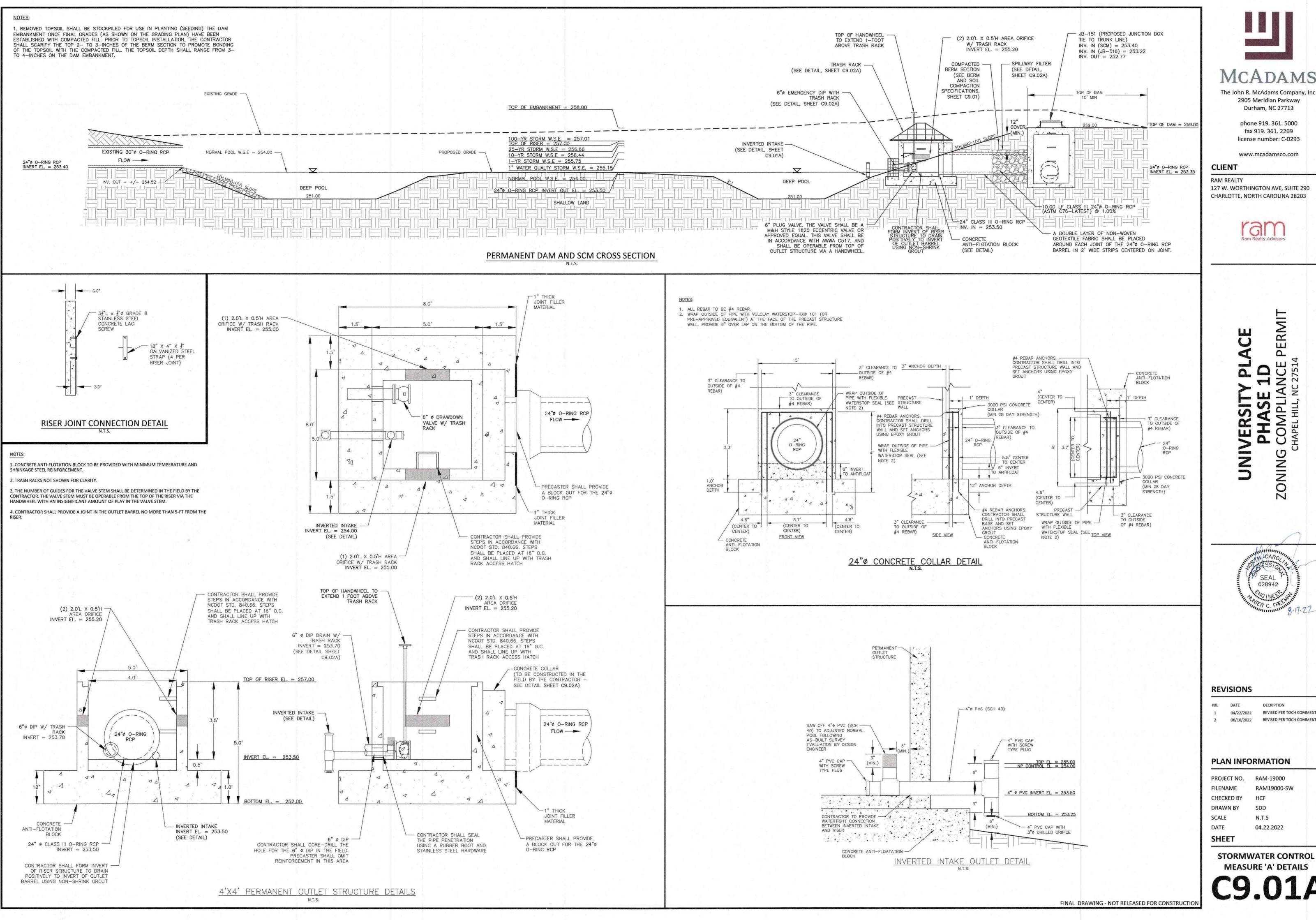
PLAN INFORMATION

PROJECT NO. RAM-19000 FILENAME RAM19000-SW CHECKED BY DRAWN BY 06.27.22

SHEET

STORMWATER CONTROL **MEASURE 'A' PLAN VIEW**

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTIO





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PER



REVISIONS

NO.	DATE	DECRIPTION	
1	04/22/2022	REVISED PER TOCH COMMENTS	
2	06/10/2022	REVISED PER TOCH COMMENTS	
5000	STANDS OF CONTRACTOR CONTRACTOR		

PLAN INFORMATION

PROJECT NO.	RAM-19000
FILENAME	RAM19000-SW
CHECKED BY	HCF
DRAWN BY	SDD
SCALE	N.T.S
DATE	04.22.2022
CHEET	

STORMWATER CONTROL **MEASURE 'A' DETAILS**