

FTPD-G STANDARD HEIGHT CONFIGURATION							
DESIGNATION (OPTIONS:-P)	AVAILABILITY	MEDIA BAY SIZE	VAULT SIZE (W x L)	WEIR LENGTH/ MAX CURB OPENING	*MAX BYPASS FLOW (CFS)	GRATE INLET/ OUTLET ACCESS SIZE	TREE GRATE QTY & SIZE
FTP0404-G	N/A CA	4 x 4	4 x 6	1'-8"	1.4	12"SQ12"Ø	(1)2.5 x 2.5
FTP04045-G	CA ONLY	4 x 4.5	4 x 6.5	1'-8"	1.4	12"SQ12"Ø	(1)2.5 x 2.5
FTP04046-G	N/A MID-ATL	4 x 6	4 x 8	1'-8"	1.4	12"SQ12"Ø	(1)3' x 3
FTP040465-G	MID-ATL ONLY	4.5 x 5.83	4.5 x 7.83	1'-8"	1.4	12"SQ12"Ø	(1)3' x 3
FTP04047-G	ALL	6 x 6	6 x 8	1'-8"	1.4	24"SQ12"Ø	(1)2.5 x 2.5
FTP04068-G	ALL	6 x 6	6 x 8	1'-8"	1.4	24"SQ12"Ø	(1)2.5 x 2.5
FTP04069-G	ALL	6 x 8	6 x 10	1'-8"	1.4	24"SQ12"Ø	(1)4' x 4'
FTP04070-G	ALL	6 x 10	6 x 12	1'-8"	1.4	24"SQ12"Ø	(1)4' x 4'
FTP04071-G	ALL	7 x 10	7 x 13	2'-6"	2.1	24"SQ24"Ø	(1)4' x 4'
FTP08105-G	ALL	8 x 10.5	8 x 14	3'-0"	2.5	24"SQ24"Ø	(1)4' x 4'
FTP08125-G	ALL	8 x 12.5	8 x 16	3'-0"	2.5	24"SQ24"Ø	(2)4' x 4'

FTPD-GD DEEP OPTION CONFIGURATION							
DESIGNATION (OPTIONS:-P)	AVAILABILITY	MEDIA BAY SIZE	VAULT SIZE (W x L)	WEIR LENGTH/ MAX CURB OPENING	*MAX BYPASS FLOW (CFS)	GRATE INLET/ OUTLET ACCESS SIZE	TREE GRATE QTY & SIZE
FTP0404-GD	N/A CA	4 x 4	4 x 6	1'-8"	4.6	12"SQ12"Ø	(1)2.5 x 2.5
FTP04045-GD	CA ONLY	4 x 4.5	4 x 6.5	1'-8"	4.6	12"SQ12"Ø	(1)2.5 x 2.5
FTP04046-GD	N/A MID-ATL	4 x 6	4 x 8	1'-8"	4.6	12"SQ12"Ø	(1)3' x 3
FTP040465-GD	MID-ATL ONLY	4.5 x 5.83	4.5 x 7.83	1'-8"	4.6	12"SQ12"Ø	(1)3' x 3
FTP04047-GD	ALL	6 x 6	6 x 8	1'-8"	4.6	24"SQ12"Ø	(1)2.5 x 2.5
FTP04068-GD	ALL	6 x 6	6 x 8	1'-8"	4.6	24"SQ12"Ø	(1)2.5 x 2.5
FTP04069-GD	ALL	6 x 8	6 x 10	1'-8"	4.6	24"SQ12"Ø	(1)4' x 4'
FTP04070-GD	ALL	6 x 10	6 x 12	1'-8"	4.6	24"SQ12"Ø	(1)4' x 4'
FTP04071-GD	ALL	7 x 10	7 x 13	2'-6"	6.8	24"SQ24"Ø	(1)4' x 4'
FTP08105-GD	ALL	8 x 10.5	8 x 14	3'-0"	8.2	24"SQ24"Ø	(1)4' x 4'
FTP08125-GD	ALL	8 x 12.5	8 x 16	3'-0"	8.2	24"SQ24"Ø	(2)4' x 4'

NA = NOT AVAILABLE

*MAX BYPASS FLOW IS INTERNAL WEIR FLOW . SITE SPECIFIC ANALYSIS IS REQUIRED TO DETERMINE GRATE INLET FLOW CAPACITY



FILTERRA PEAK DIVERSION - GRATE (FTPD-G)
CONFIGURATION DETAIL

04/28/2023	23	PHASE 2 MODIFICATIONS	DTR
DATE	NO.	REVISIONS	BY

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PROJECT RKNV18001

DATE 2019/05/21

DRAWING SCALE AS SHOWN

DRAWN BY RLM/CSB

APPROVED BY ESM

CS6022

SHEET 29 OF 39

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK	
PENNON ASSOCIATES INC. 5430 Wade Park Boulevard, #106 Raleigh, NC 27607 T 919.929.1173 F 919.933.6548	

1142 FORDHAM BLVD.	TARHEEL LODGING, LLC & UNICORN GROUP FIFTEEN, LLC
CHAPEL HILL, NC	6110 FALCON RIDGE ROAD CHAPEL HILL, NC 27517

04/28/2023	23	PHASE 2 MODIFICATIONS	DTR
DATE	NO.	REVISIONS	BY

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PROJECT RKNV18001

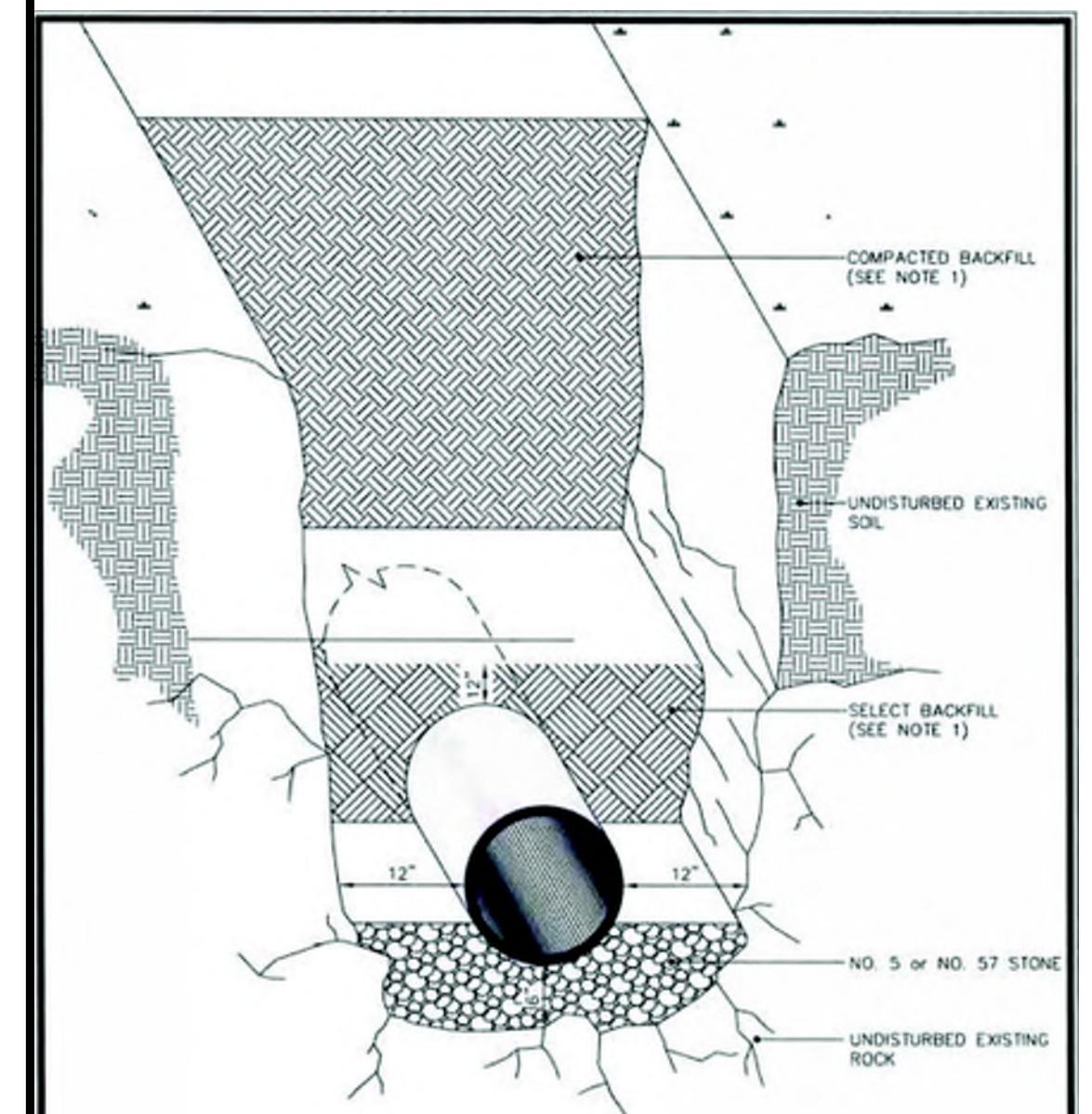
DATE 2019/05/21

DRAWING SCALE AS SHOWN

DRAWN BY RLM/CSB

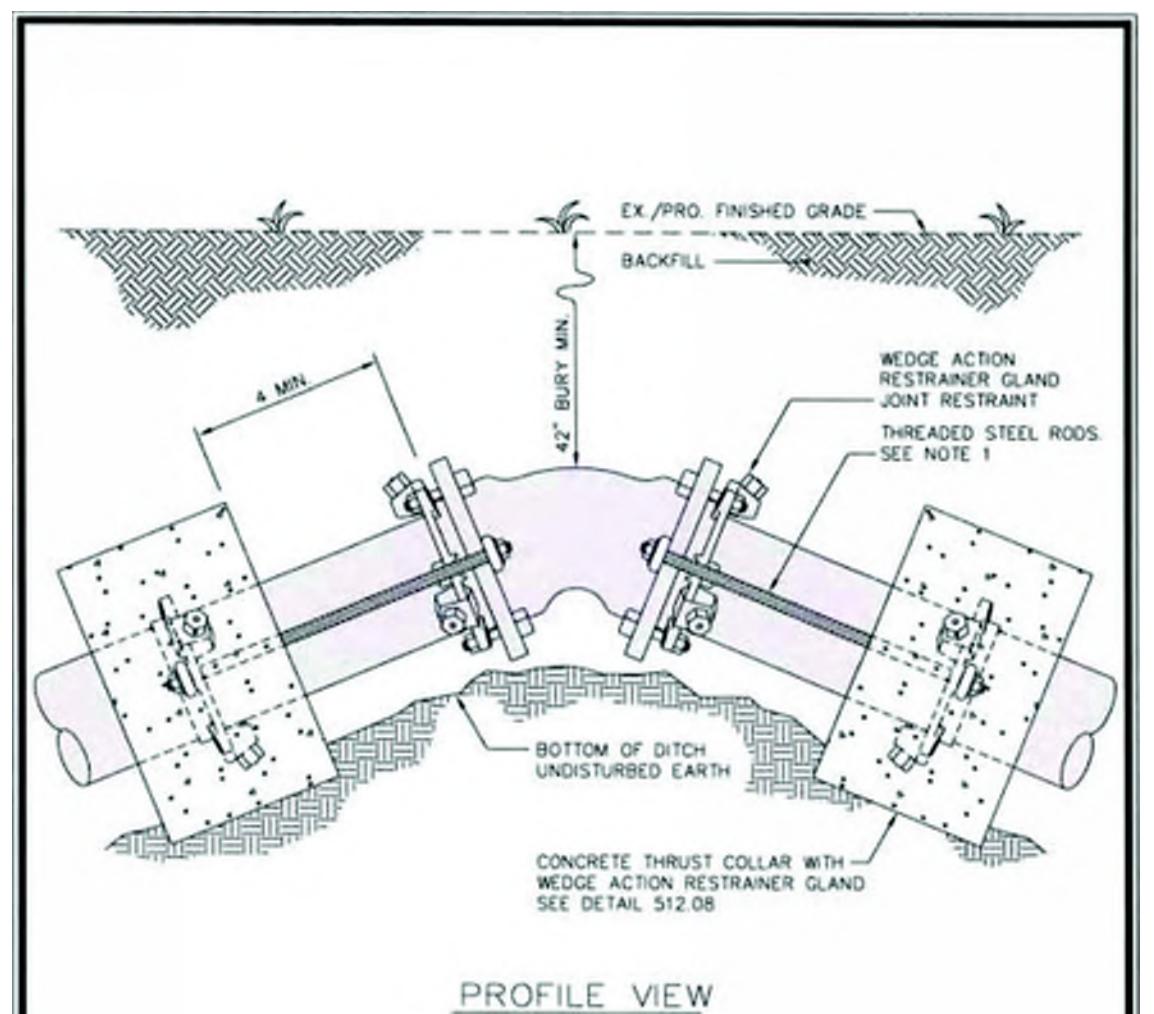
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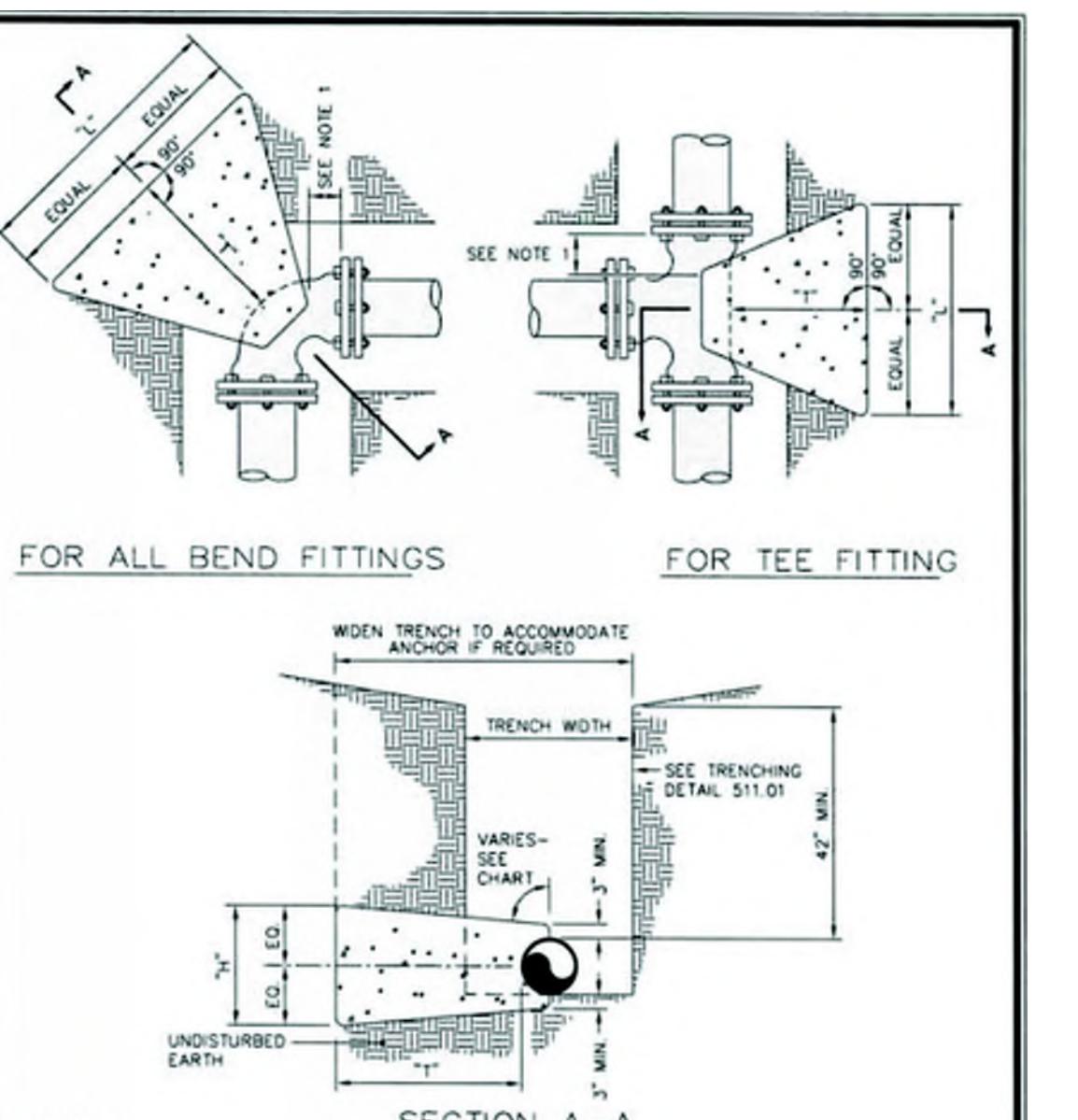
NOTES:
1. See specification section 02275 Trenching, Backfilling, and Compaction of Utilities for backfill and compaction requirements.

OWASA
800 Jones Ferry Road
PO Box 366
Carolina, NC 27510-0366
USE WITH THE OWASA STANDARD SPECIFICATIONS ONLY
Scale: Not To Scale
Detail # 2511.01
Revision Date: August 15, 2003
Sheet # 1 of 1



NOTES:
1. If 42" bury depth is not maintained or located in high pressure zone, a minimum of (2) 3/4" dia. rods to be used for pipe thru 24" dia. per joint - a minimum of (2) 1" dia. rods to be used for pipe 30" & 36" dia. per joint - a minimum of (2) 1 1/4" dia. rods to be used for pipe 42" & 48" dia. per joint. (See detail 512.09)

OWASA
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USE WITH THE OWASA STANDARD SPECIFICATIONS ONLY
Scale: Not To Scale
Detail # 2511.01
Revision Date: August 15, 2003
Sheet # 1 of 1



NOTES:
1. Concrete blocking is to be formed to ensure accessibility to fittings and pour against undisturbed earth.
2. Fittings are to be completely wrapped with plastic, prior to pouring concrete.
3. Concrete to be minimum 3,000 psi. @ 28 days.

OWASA
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PO Box 366
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USE WITH THE OWASA STANDARD SPECIFICATIONS ONLY
Scale: Not To Scale
Detail # 2512.01
Revision Date: August 15, 2003
Sheet # 1 of 1

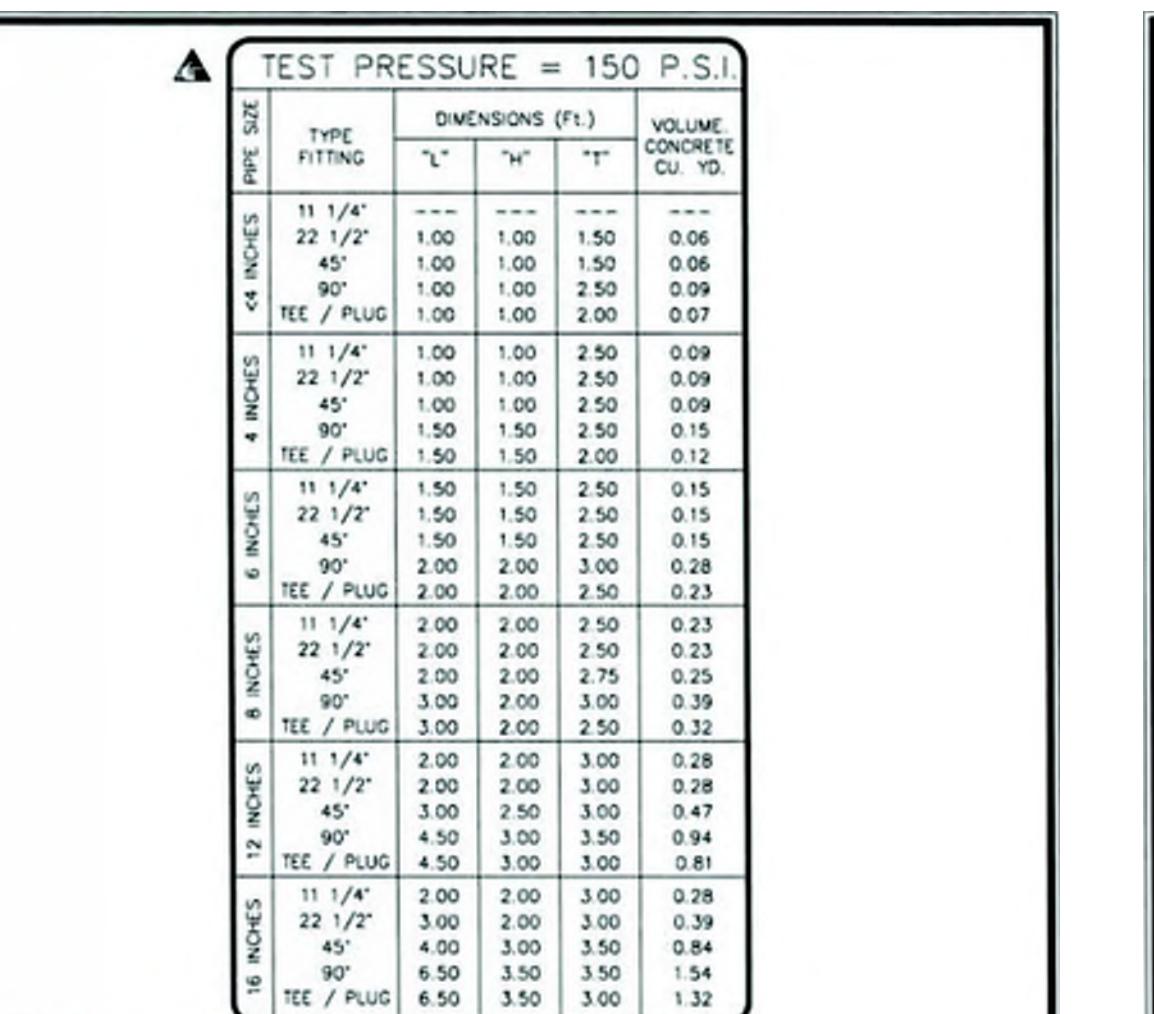
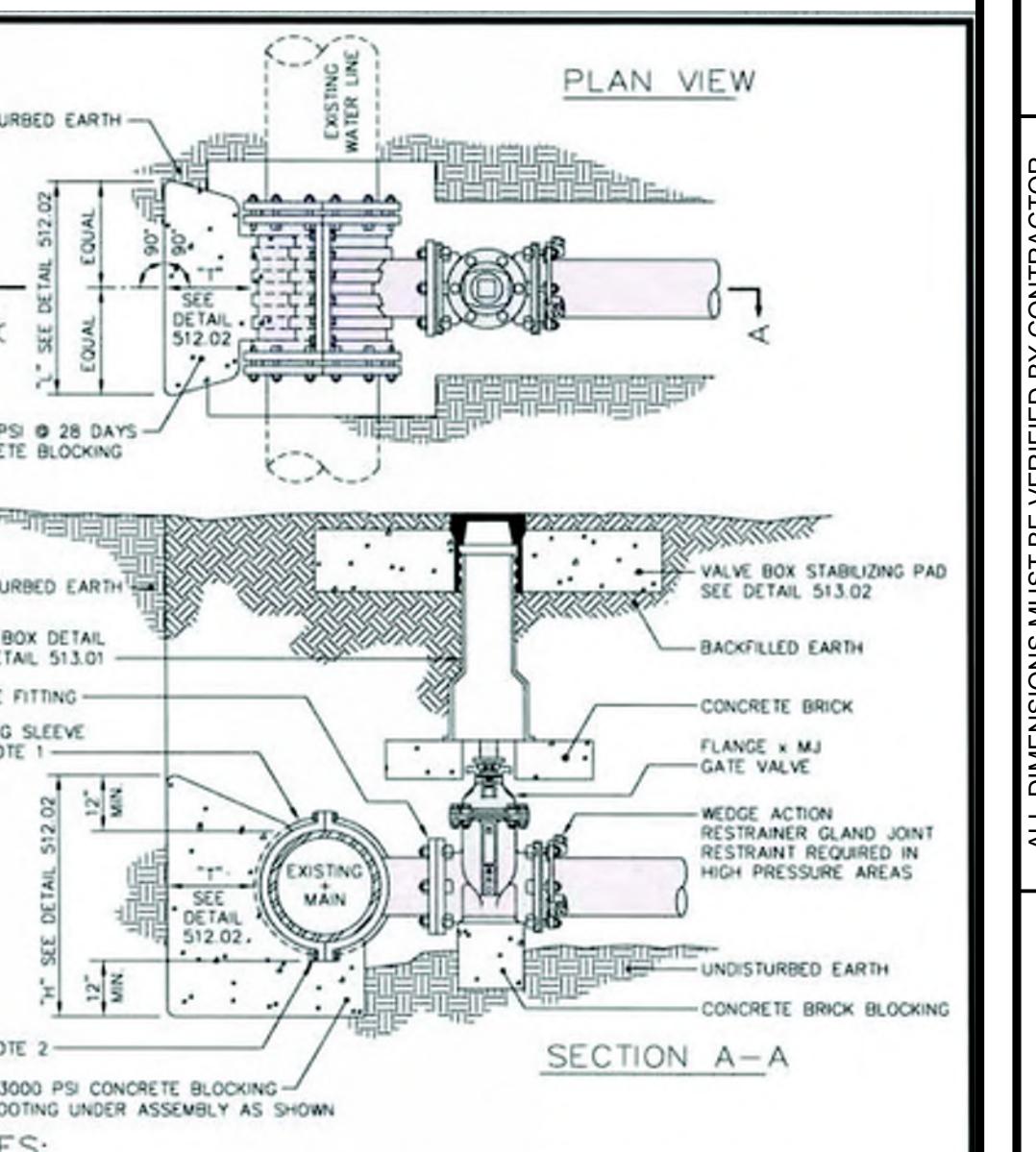


CHART NOTES:
1. If blocking excavation is in lightly compacted fill areas, or in areas where boulders or stumps have been removed, blocking size must be re-sized for the specific location/circumstance by a NC licensed Professional Engineer.
2. Blocking sizes shown in these tables assume the following:
a. Blocking constructed in compacted soils as shown in detail b. Soil bearing pressure = 2000 psf
c. Velocity of flow = 15 fps
3. This detail not applicable to reducing bends.
4. Neither the weight of the concrete blocking nor friction between concrete blocking and soil was added into blocking sizes computation. Therefore, blocking size is conservative.

OWASA
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USE WITH THE OWASA STANDARD SPECIFICATIONS ONLY
Scale: Not To Scale
Detail # 2512.02
Revision Date: August 15, 2003
Sheet # 1 of 1



NOTES:
1. Concrete blocking is to be formed to ensure accessibility to fittings and pour against undisturbed earth.
2. Fittings are to be completely wrapped with plastic, prior to pouring concrete.
3. Concrete to be minimum 3,000 psi. @ 28 days.
4. Tops onto in-service mains by OWASA personnel only.

OWASA
800 Jones Ferry Road
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USE WITH THE OWASA STANDARD SPECIFICATIONS ONLY
Scale: Not To Scale
Detail # 2512.02
Revision Date: August 15, 2003
Sheet # 1 of 1

TARHEEL LODGING REDEVELOPMENT PHASE 2

WATER DETAILS

TARHEEL LODGING, LLC & UNICORN GROUP FIFTEEN, LLC
1142 FORDHAM BLVD.
CHAPEL HILL, NC 27517

6110 FALCON RIDGE ROAD
CHAPEL HILL, NC 27517

Pennoni

Firm License
F-1267

5430 Wade Park Boulevard, #106
Raleigh, NC 27607

T 919.929.1173 F 919.933.6548

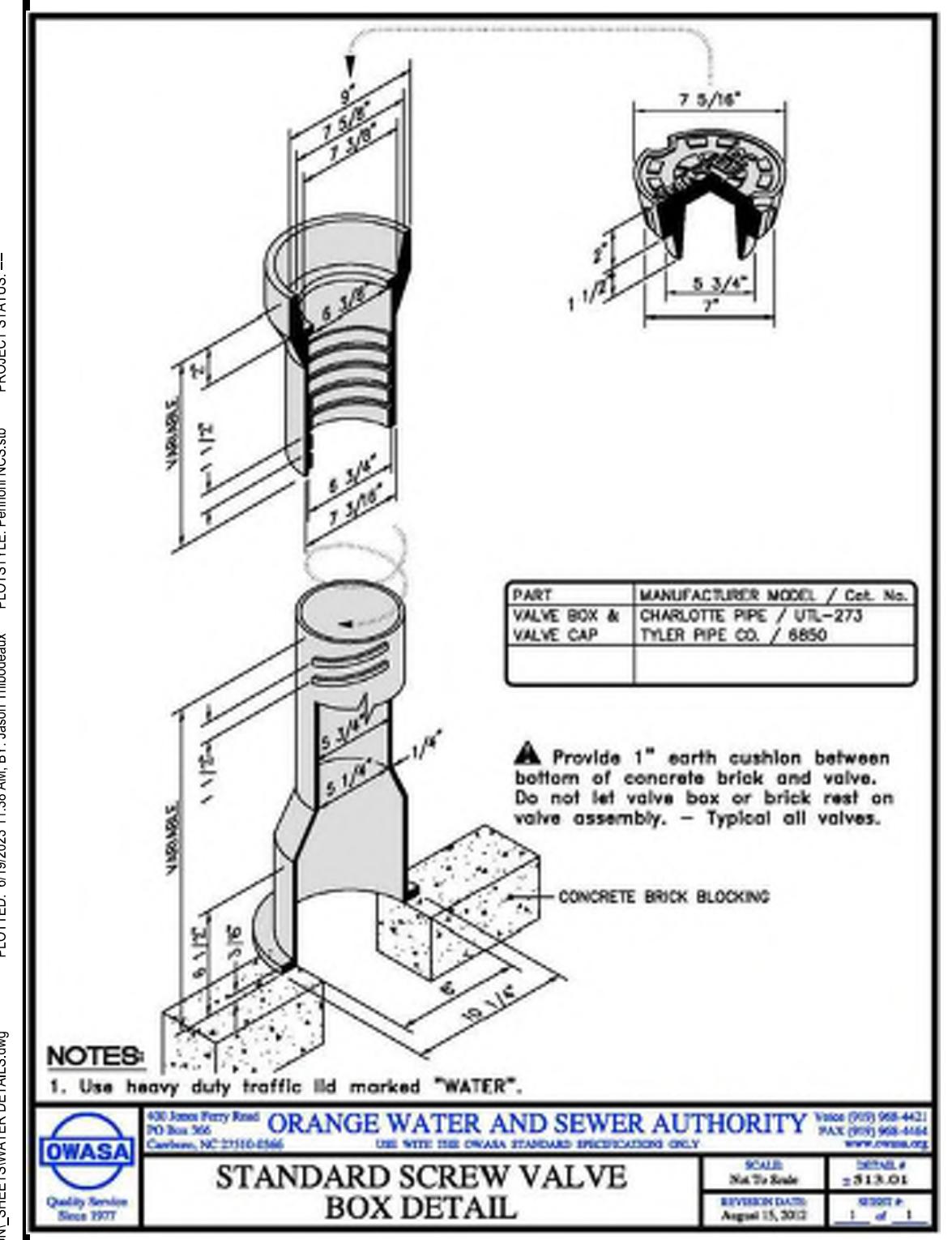
PENNONI ASSOCIATES INC.

5430 Wade Park Boulevard, #106
Raleigh, NC 27607

T 919.929.1173 F 919.933.6548

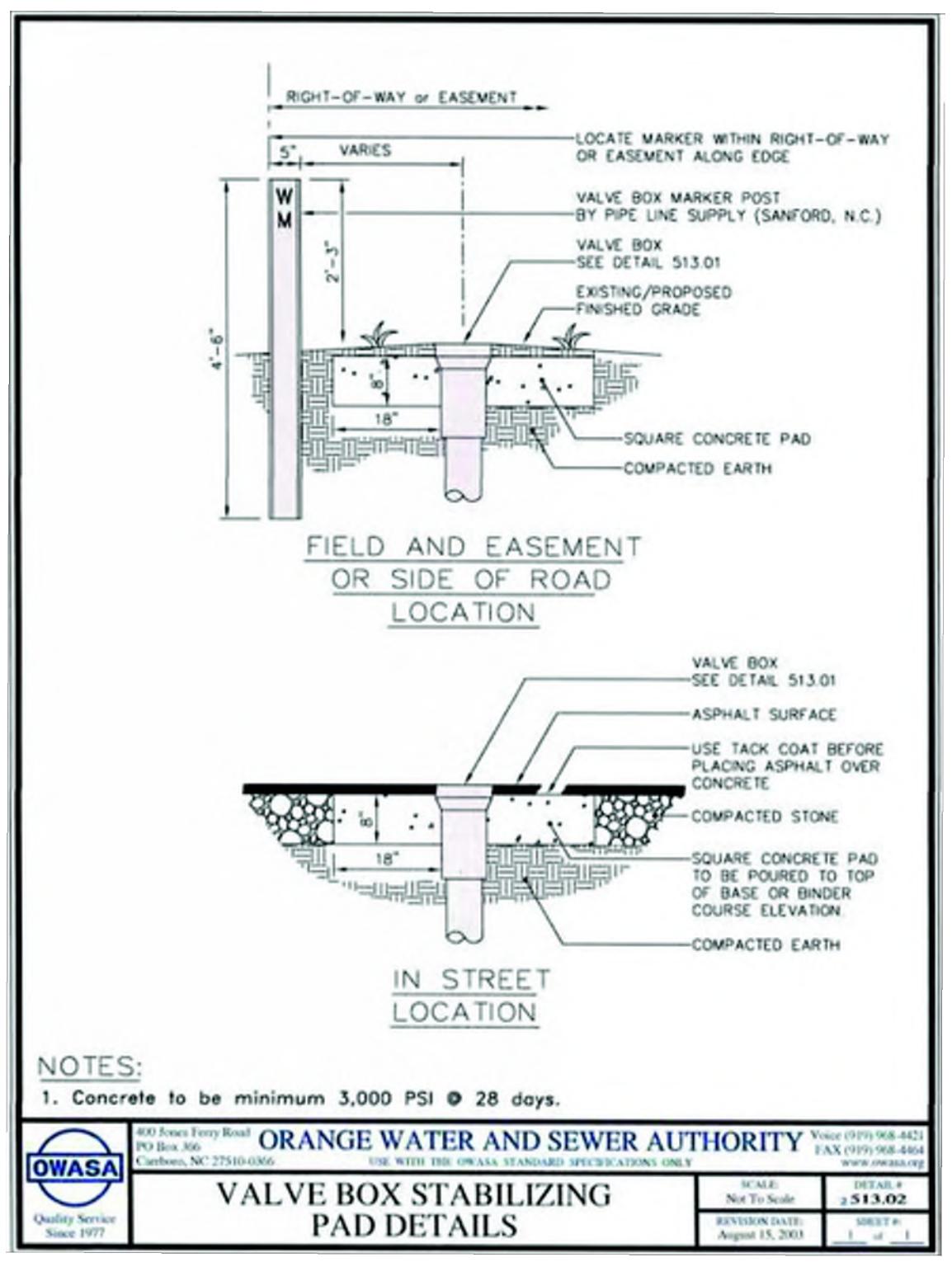
PROFESSIONAL
SEAL
04/17/36
E. M. Minardo
P. E.

NORTH CAROLINA
PROFESSIONAL
ENGINEER
E. M. Minardo
P. E.



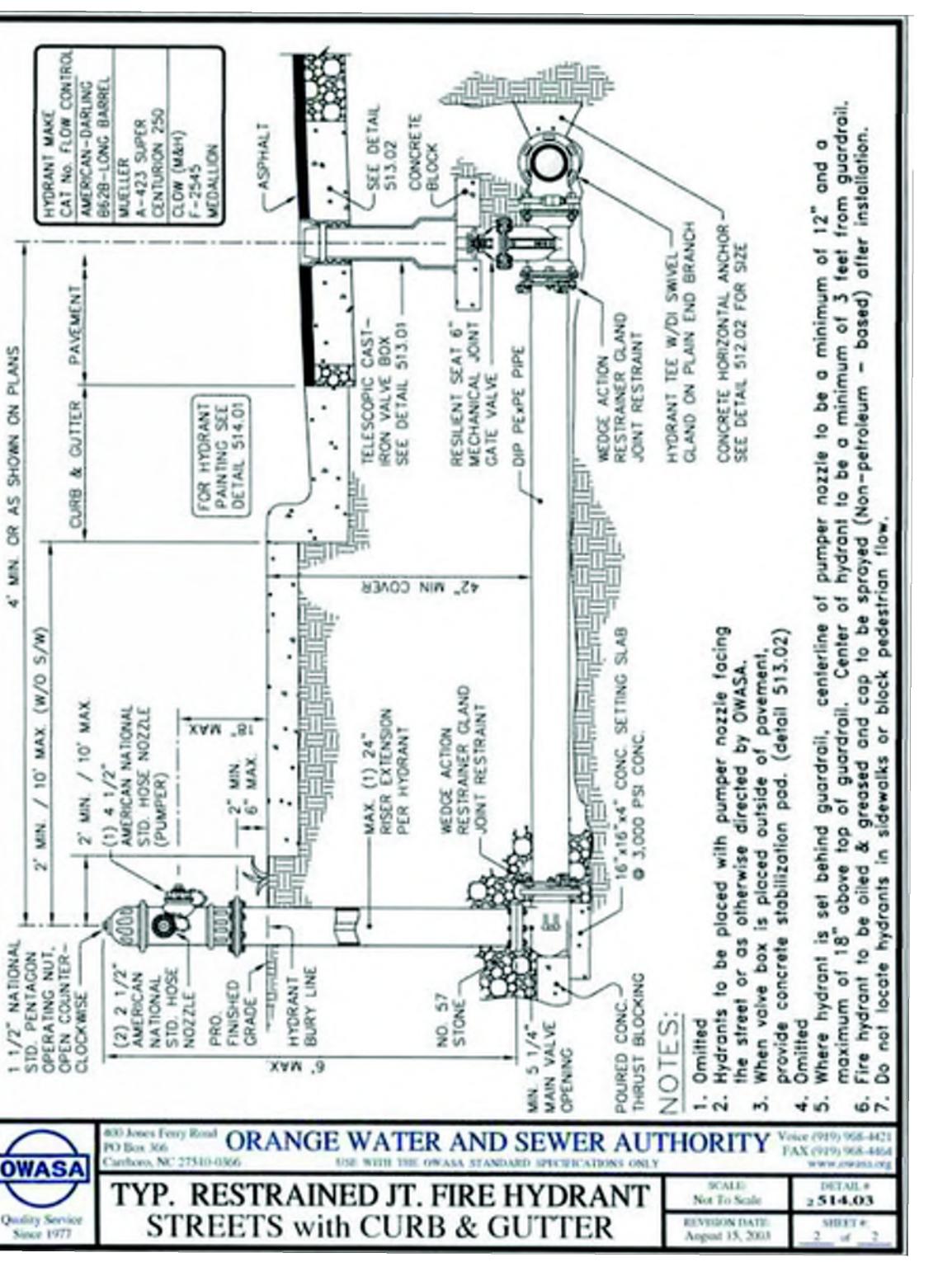
NOTES:
1. Use heavy duty traffic lid marked "WATER".

OWASA
800 Jones Ferry Road
PO Box 366
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USE WITH THE OWASA STANDARD SPECIFICATIONS ONLY
Scale: Not To Scale
Detail # 2513.02
Revision Date: August 15, 2003
Sheet # 1 of 1

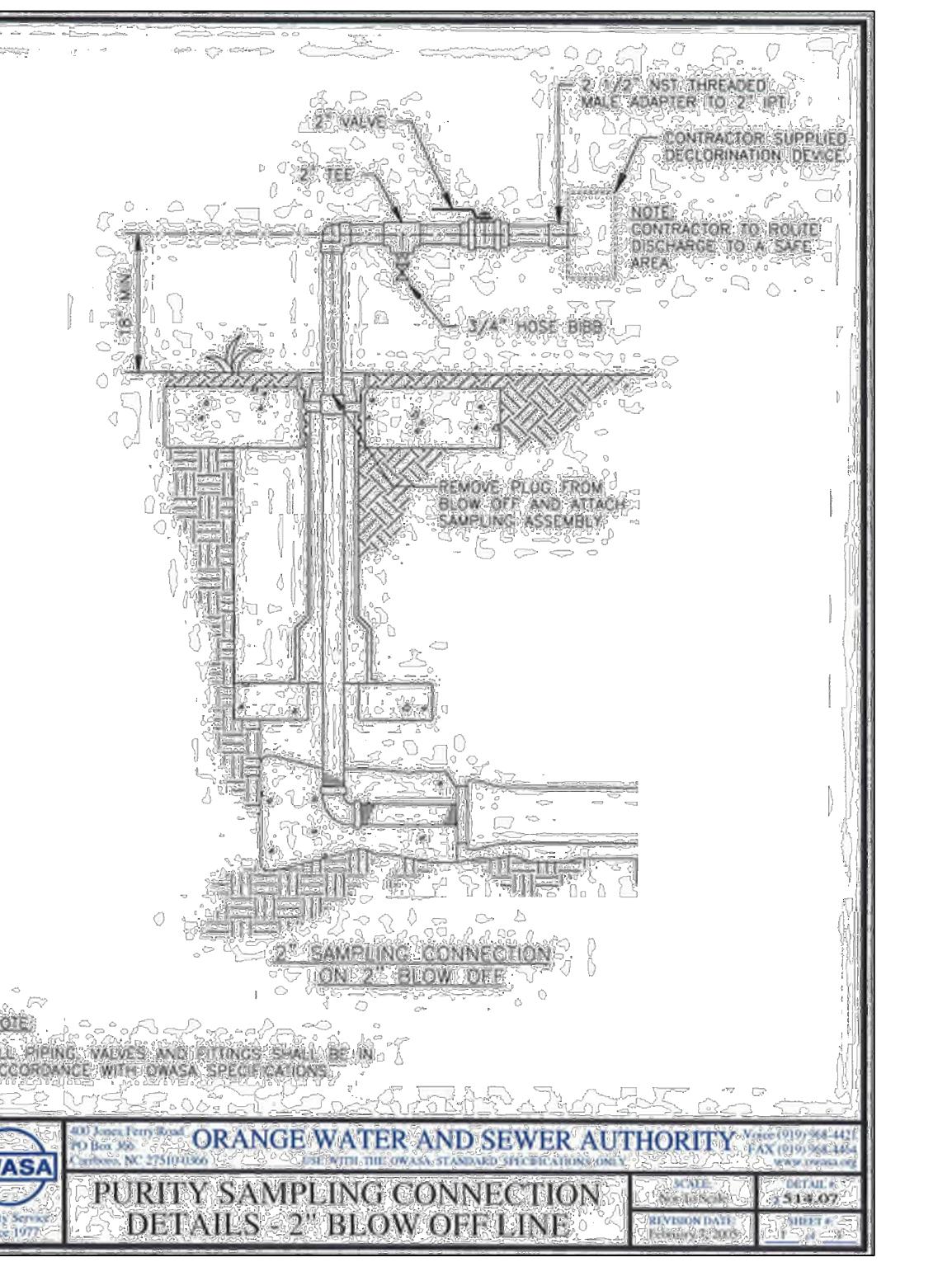


NOTES:
1. Concrete to be minimum 3,000 PSI @ 28 days.

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USE WITH THE OWASA STANDARD SPECIFICATIONS ONLY
Scale: Not To Scale
Detail # 2513.02
Revision Date: August 15, 2003
Sheet # 1 of 1



NOTES:
1. Hydrant to be placed with plumb nozzle facing the street or as otherwise directed by OWASA.
2. When valve box is placed outside of pavement, provide concrete stabilization pad (detail 513.02).
3. Where hydrant is set behind gurdail, centerline of plumb nozzle to be a minimum of 12" and a maximum of 18" above top of gurdail. Centerline of hydrant to be a minimum of 3 feet from gurdail.
4. Where hydrant is set behind gurdail, centerline of plumb nozzle to be a minimum of 12" and a maximum of 18" above top of gurdail. Centerline of hydrant to be a minimum of 3 feet from gurdail.
5. Where hydrant is set behind gurdail, centerline of plumb nozzle to be a minimum of 12" and a maximum of 18" above top of gurdail. Centerline of hydrant to be a minimum of 3 feet from gurdail.
6. Fire hydrant to be oiled & greased and to be painted (Non-petroleum - based) after installation.
7. Do not locate hydrants in low areas or block pedestrian flow.



NOTES:
1. All piping, valves and fittings shall be in accordance with OWASA specifications.
2. Contractor supplied connection device.
3. Contractor to route discharge to a safe area.
4. Remove plug from blow off and attach sampling assembly.
5. 2" sampling connection on 2" blow off.

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PROJECT RKNV18001

DATE 2018-05-21

DRAWING SCALE N.T.S.

DRAWN BY RLM/CSB

APPROVED BY ESM

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SHEET 30 OF 39



TARHEEL LODGING REDEVELOPMENT PHASE 2

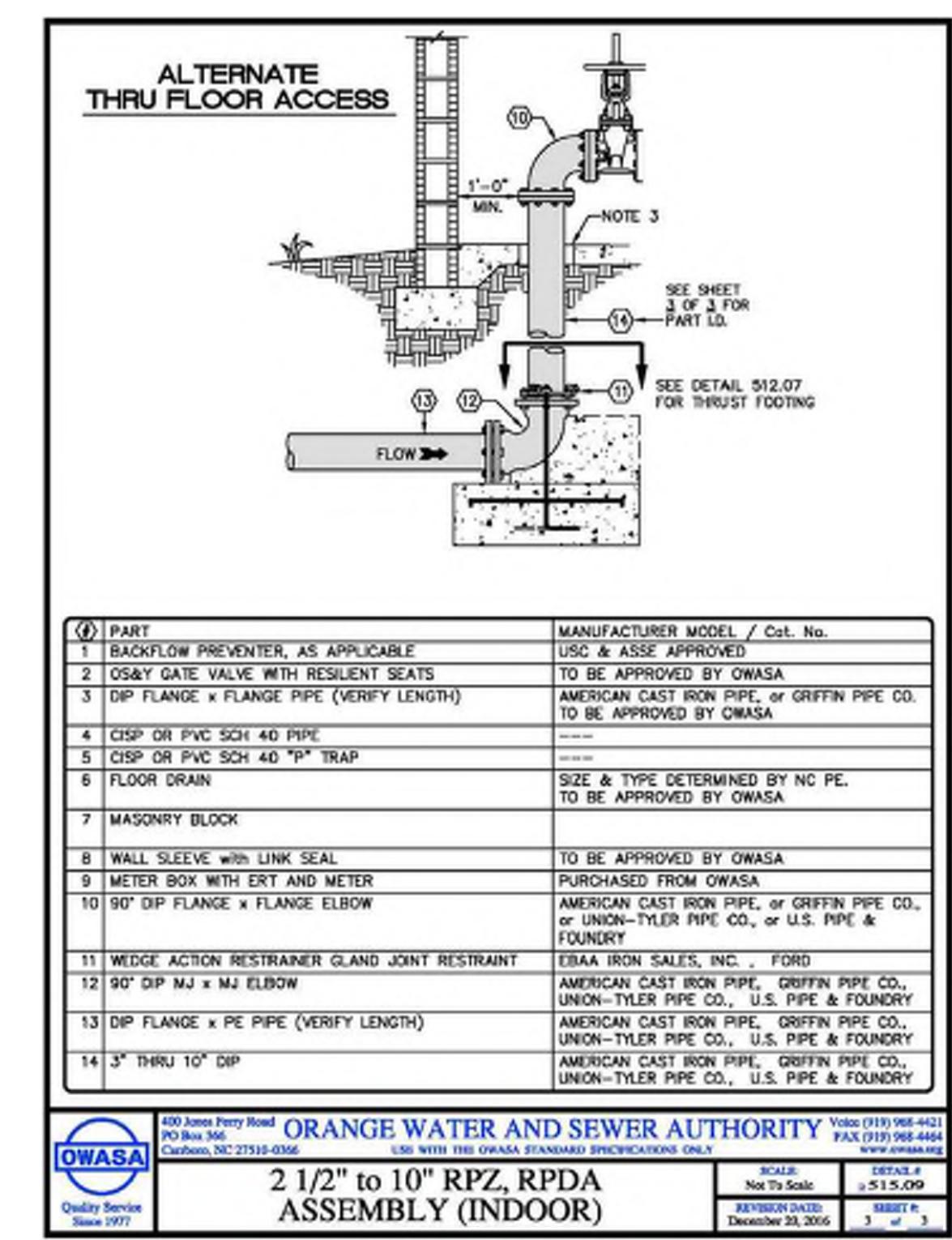
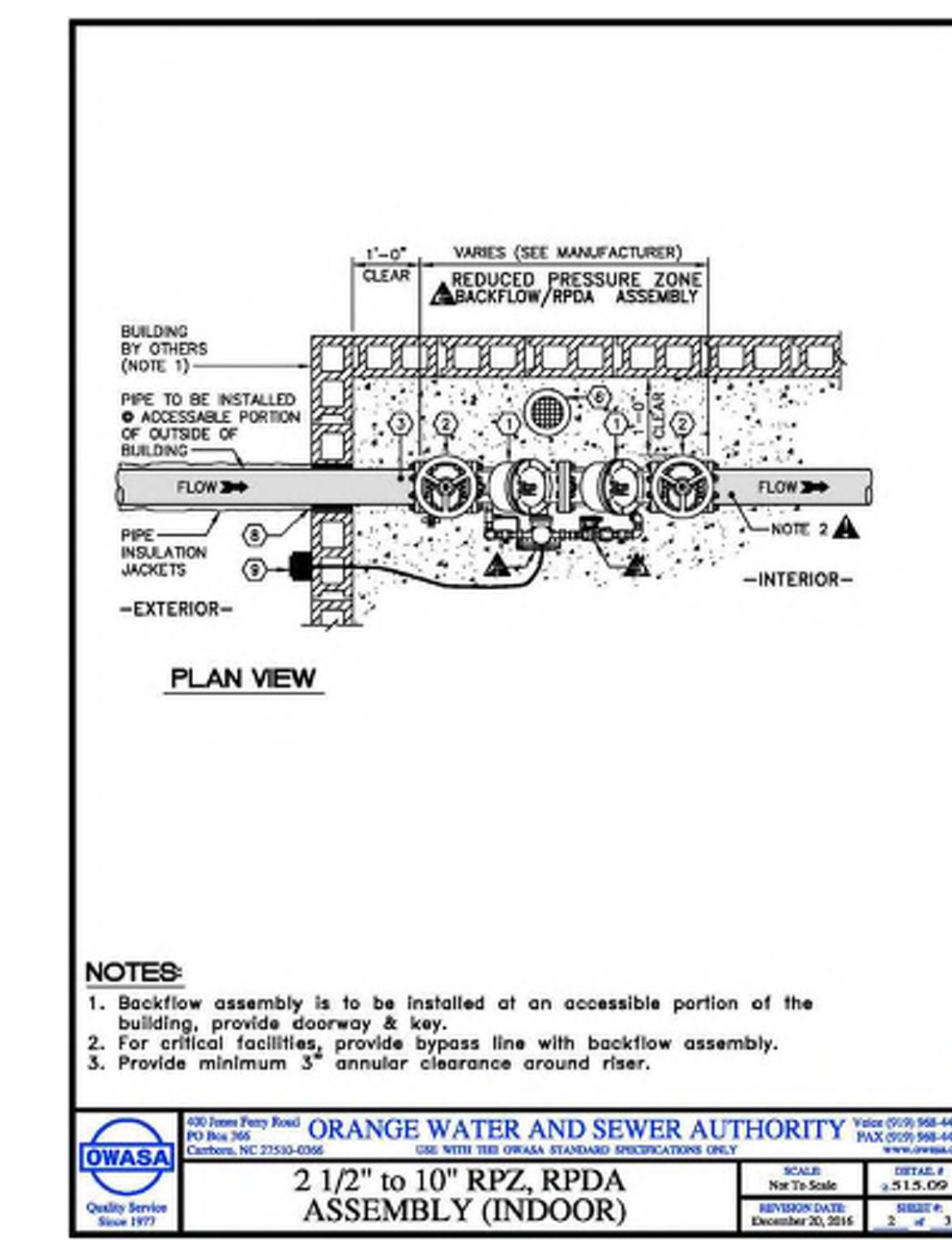
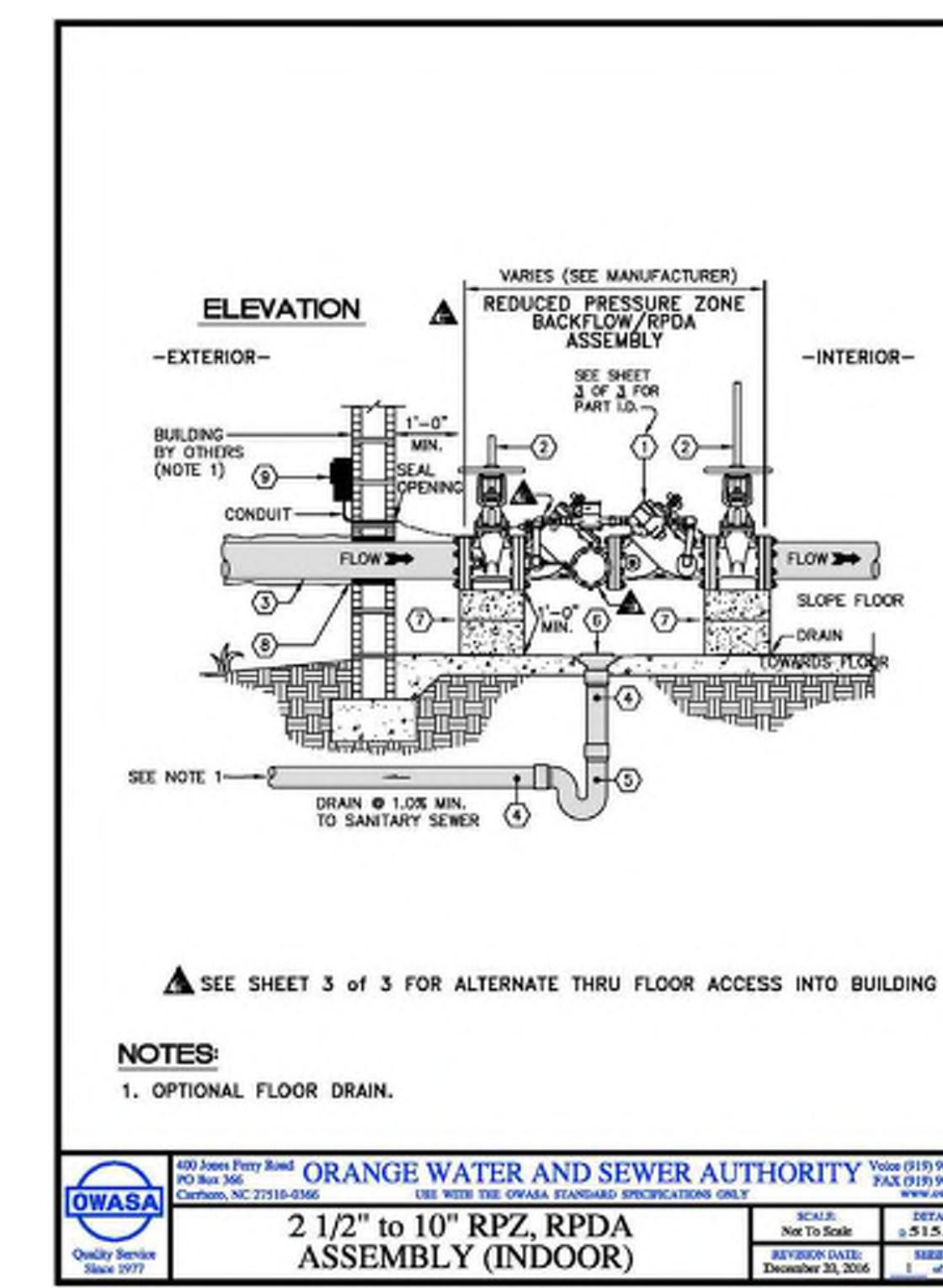
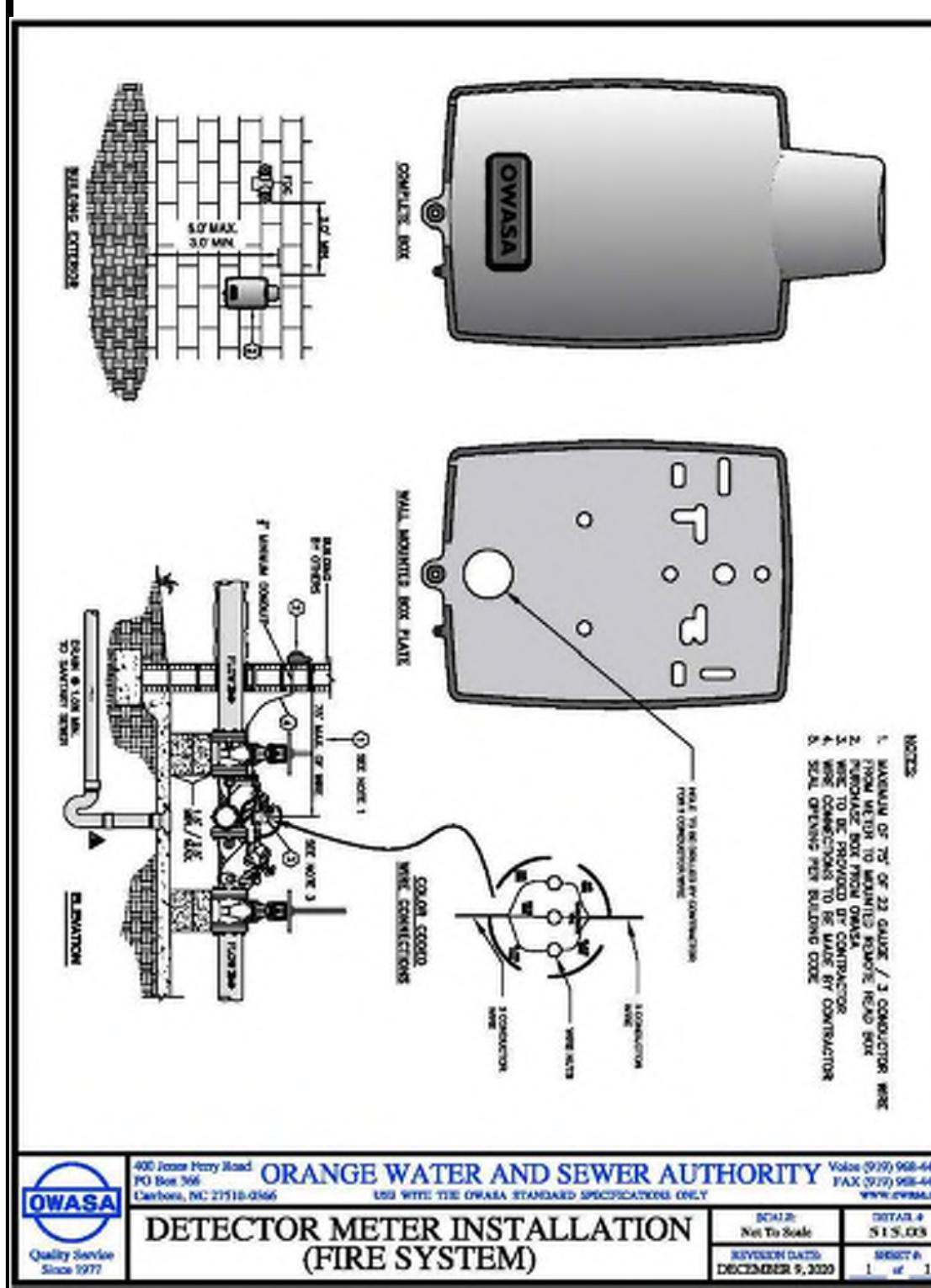
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		04/28/2023	23	PHASE 2 MODIFICATIONS		NO	REVISIONS	BY	

CS6042

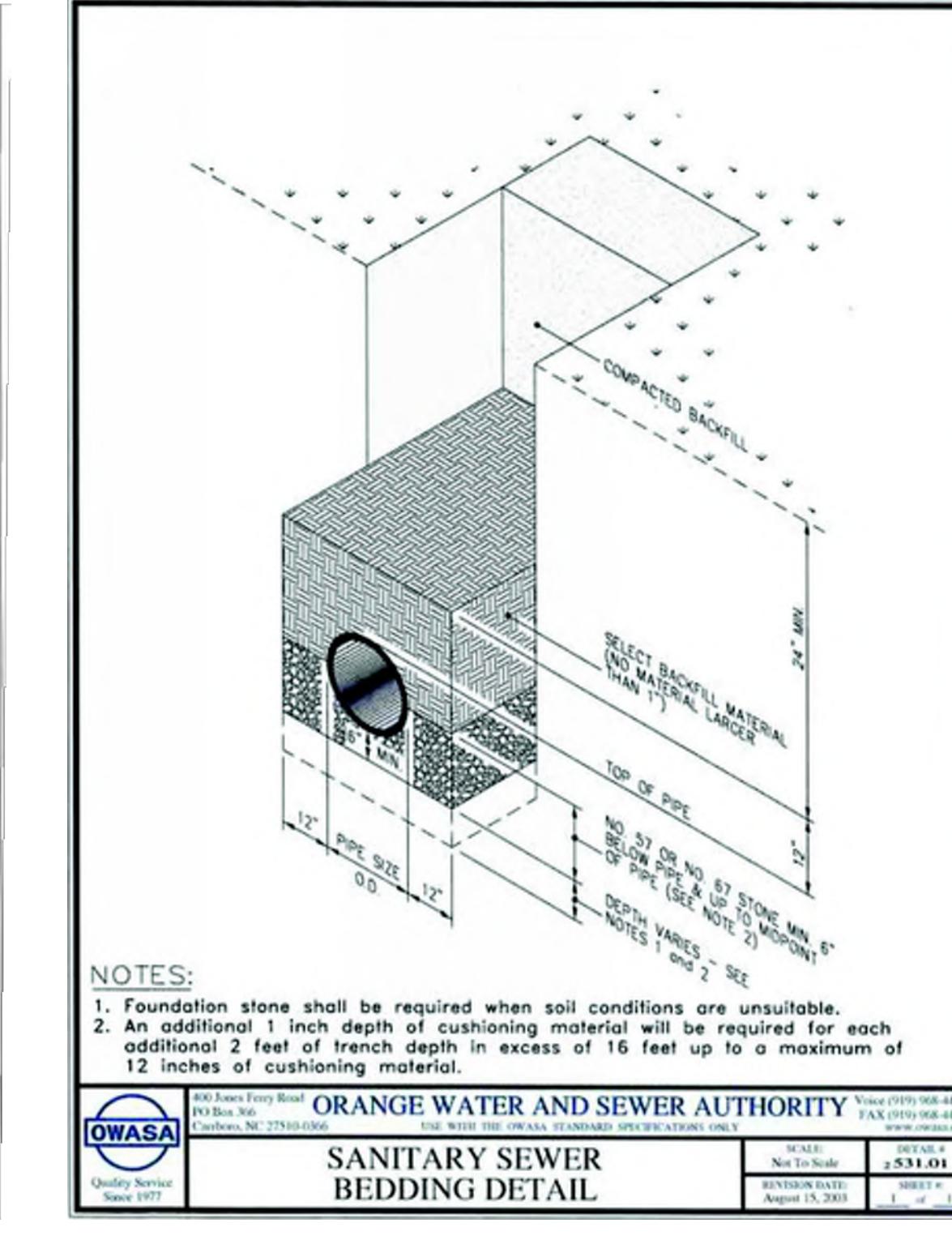
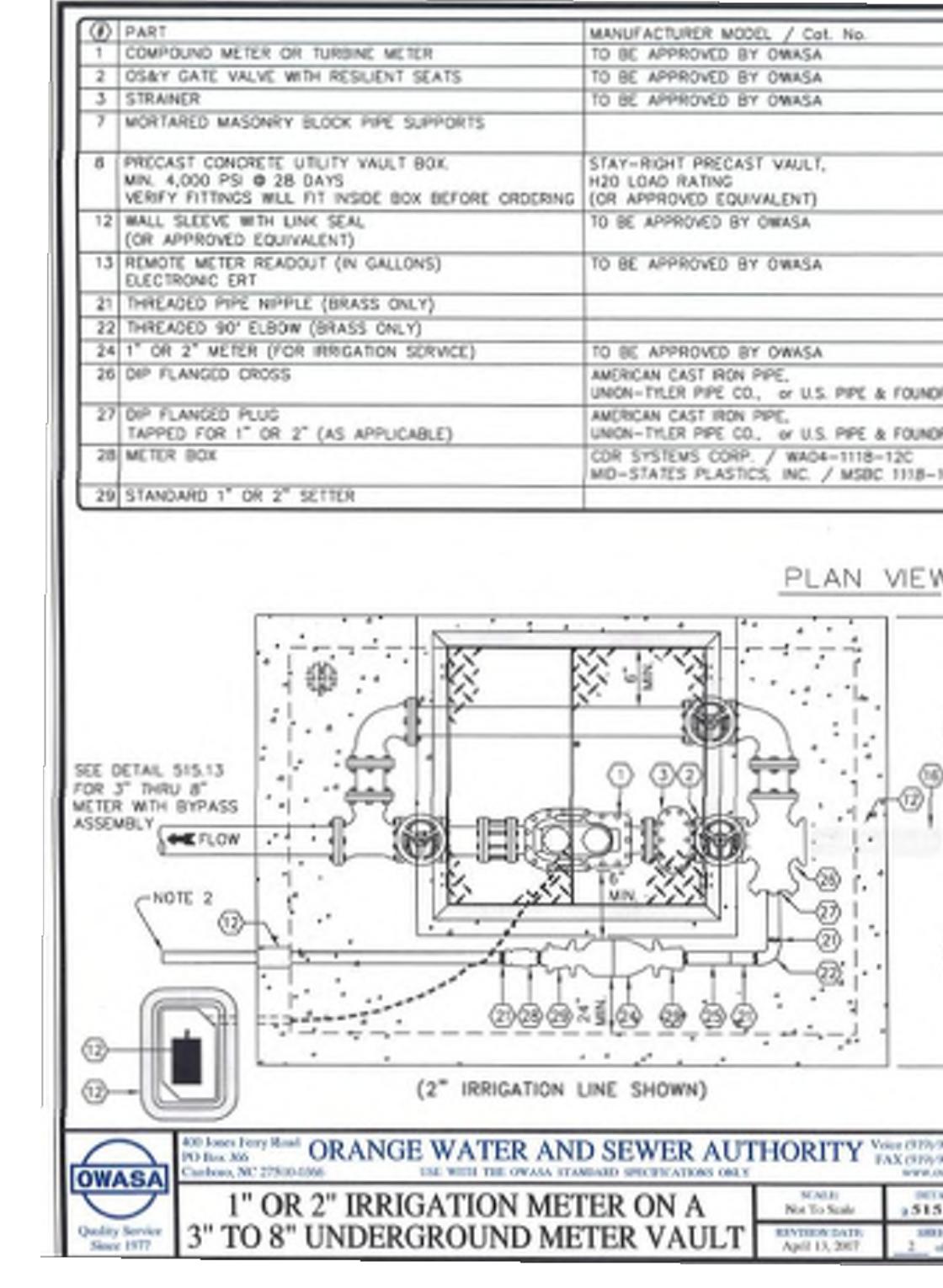
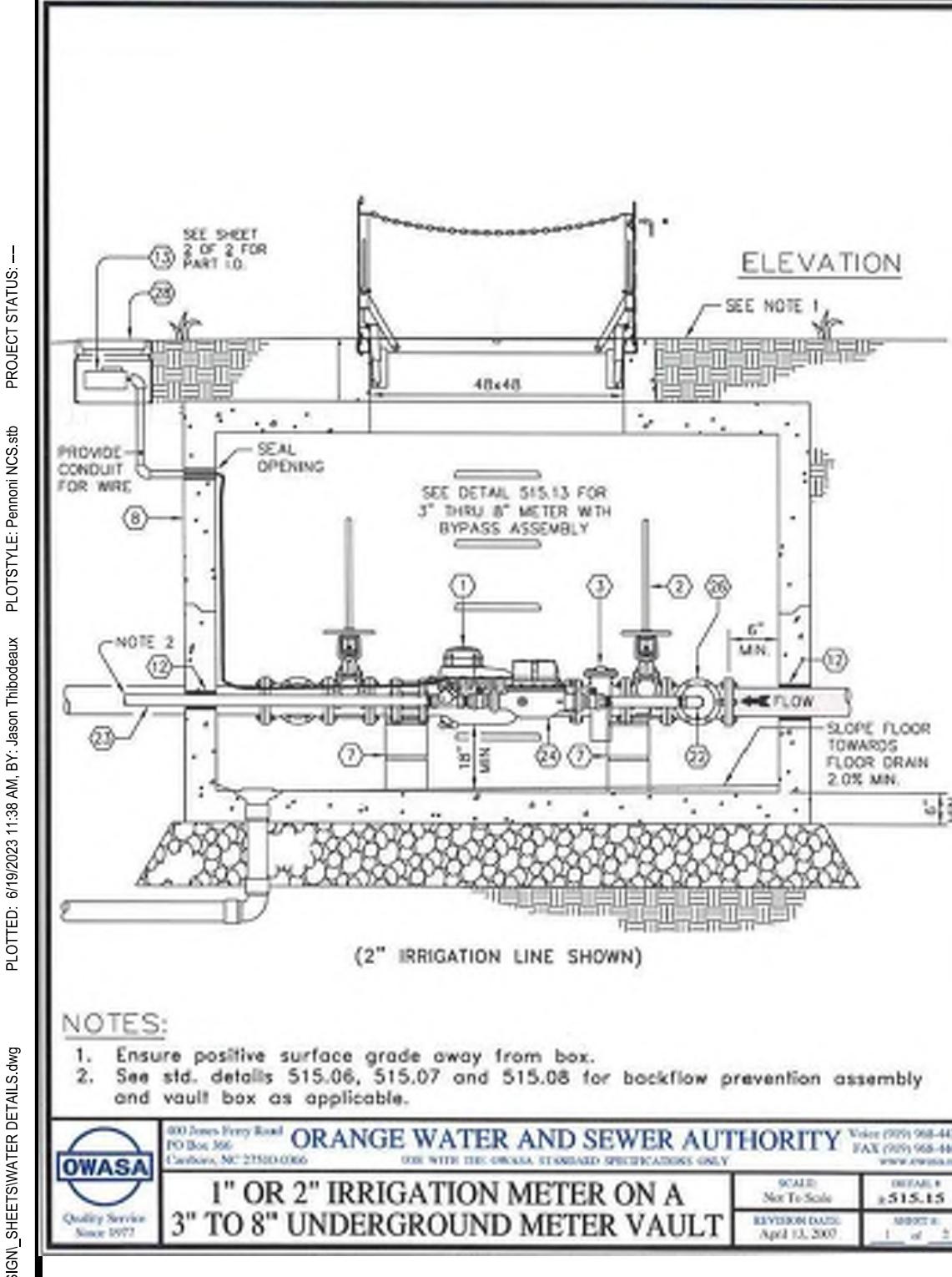
SHEET 31 OF 39

WATER DETAILS

1142 FORDHAM BLVD.	TARHEEL LODGING, LLC & UNICORN GROUP FIFTEEN, LLC
CHAPEL HILL, NC	6110 FALCON RIDGE ROAD



PART		MANUFACTURER MODEL / Cat. No.
1	BACKFLOW PREVENTER, AS APPLICABLE	USC & ASSE APPROVED
2	OS&Y GATE VALVE WITH RESILIENT SEATS	TO BE APPROVED BY OWASA
3	DIP FLANGE x FLANGE PIPE (VERIFY LENGTH)	AMERICAN CAST IRON PIPE, or GRIFFIN PIPE CO.
4	CSP OR PVC SCH 40 PIPE	TO BE APPROVED BY CWASA
5	CSP OR PVC SCH 40 "P" TRAP	
6	FLOOR DRAIN	SIZE & TYPE DETERMINED BY NC PE.
7	MASONRY BLOCK	TO BE APPROVED BY OWASA
8	WALL SLEEVE with LINK SEAL	TO BE APPROVED BY OWASA
9	METER BOX WITH ERT AND METER	PURCHASED FROM OWASA
10	90° DIP FLANGE x FLANGE ELBOW	AMERICAN CAST IRON PIPE, or GRIFFIN PIPE CO., UNION-TYLER PIPE CO., or U.S. PIPE & FOUNDRY
11	WEDGE ACTION RESTRAINER GLAND JOINT RESTRAINT	ERAA IRON SALES, INC., FORD
12	90° DIP MJ x MJ ELBOW	AMERICAN CAST IRON PIPE, GRIFFIN PIPE CO., UNION-TYLER PIPE CO., U.S. PIPE & FOUNDRY
13	DIP FLANGE x PE PIPE (VERIFY LENGTH)	AMERICAN CAST IRON PIPE, GRIFFIN PIPE CO., UNION-TYLER PIPE CO., U.S. PIPE & FOUNDRY
14	3" THRU 10" DIP	AMERICAN CAST IRON PIPE, GRIFFIN PIPE CO., UNION-TYLER PIPE CO., U.S. PIPE & FOUNDRY



PROJECT STATUS: -

POSTED: 01/02/2023 10:59 AM BY Jason Richardson

NOTES:

1. Ensure positive surface grade away from box.
2. See std. details 515.06, 515.07 and 515.08 for backflow prevention assembly and vault box as applicable.

OWASA
1" OR 2" IRRIGATION METER ON A 3" TO 8" UNDERGROUND METER VAULT

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TARHEEL LODGING REDEVELOPMENT PHASE 2

SANITARY DETAILS

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PROJECT: RKNV18001

DATE: 2018-05-21

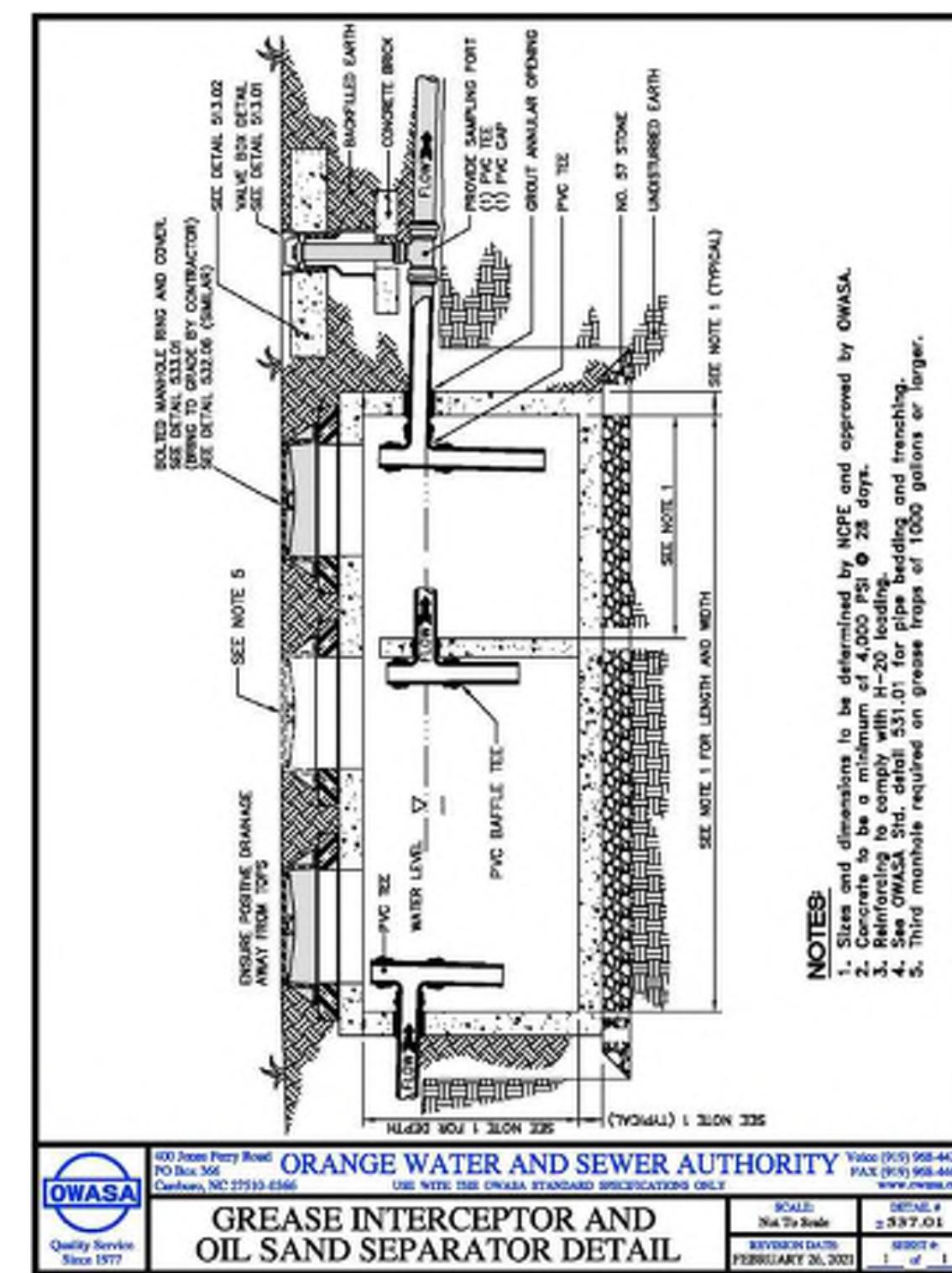
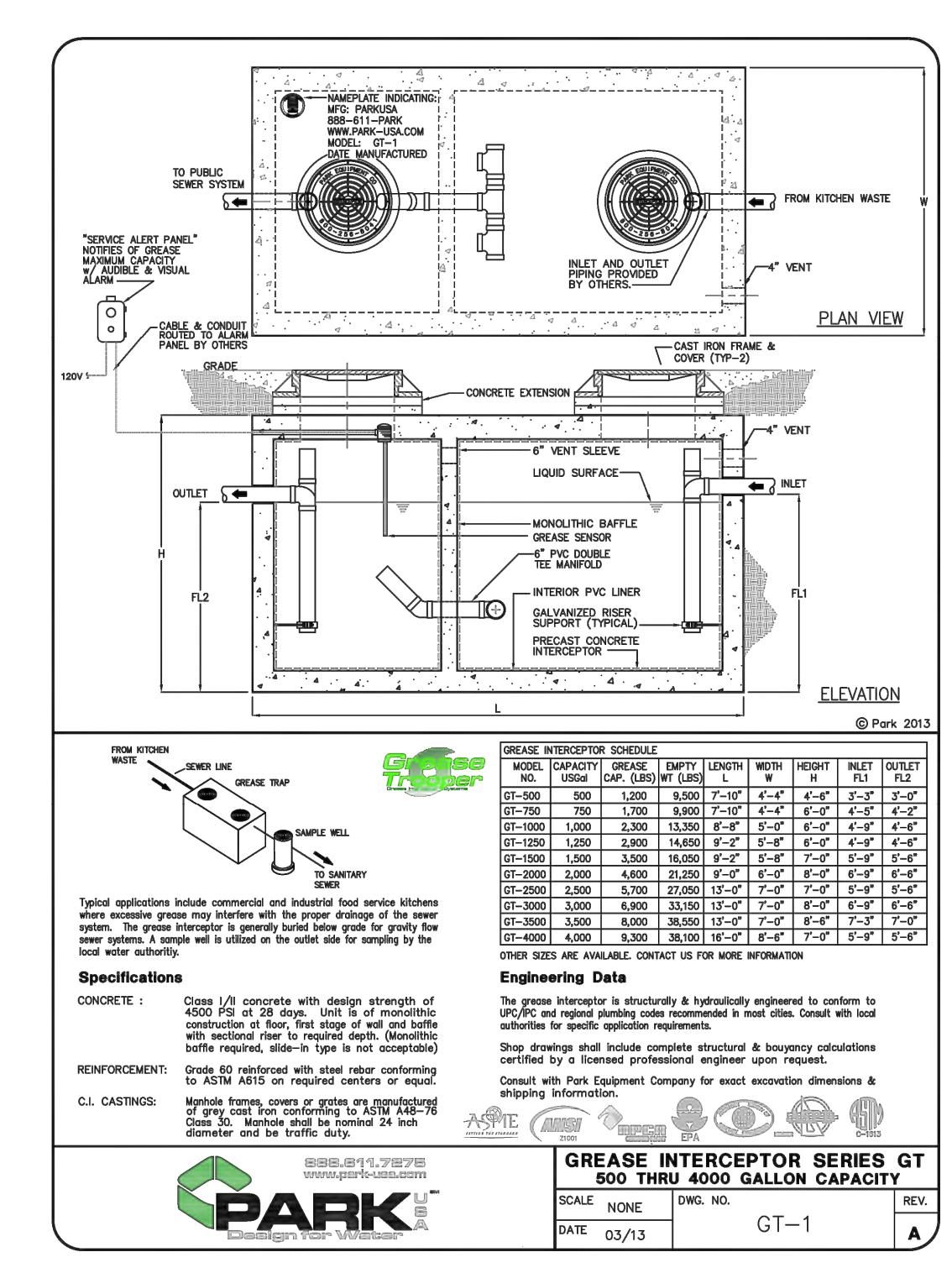
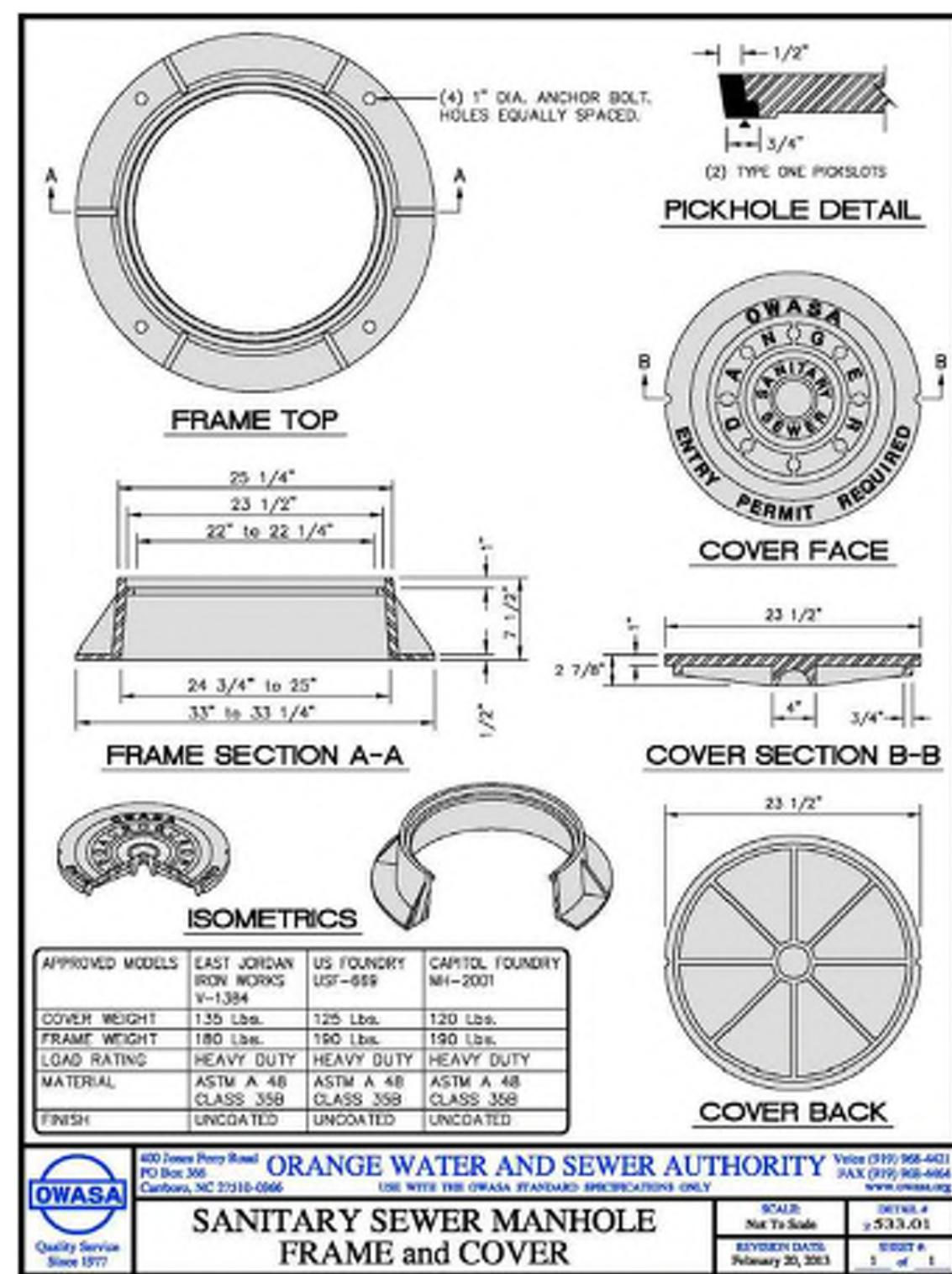
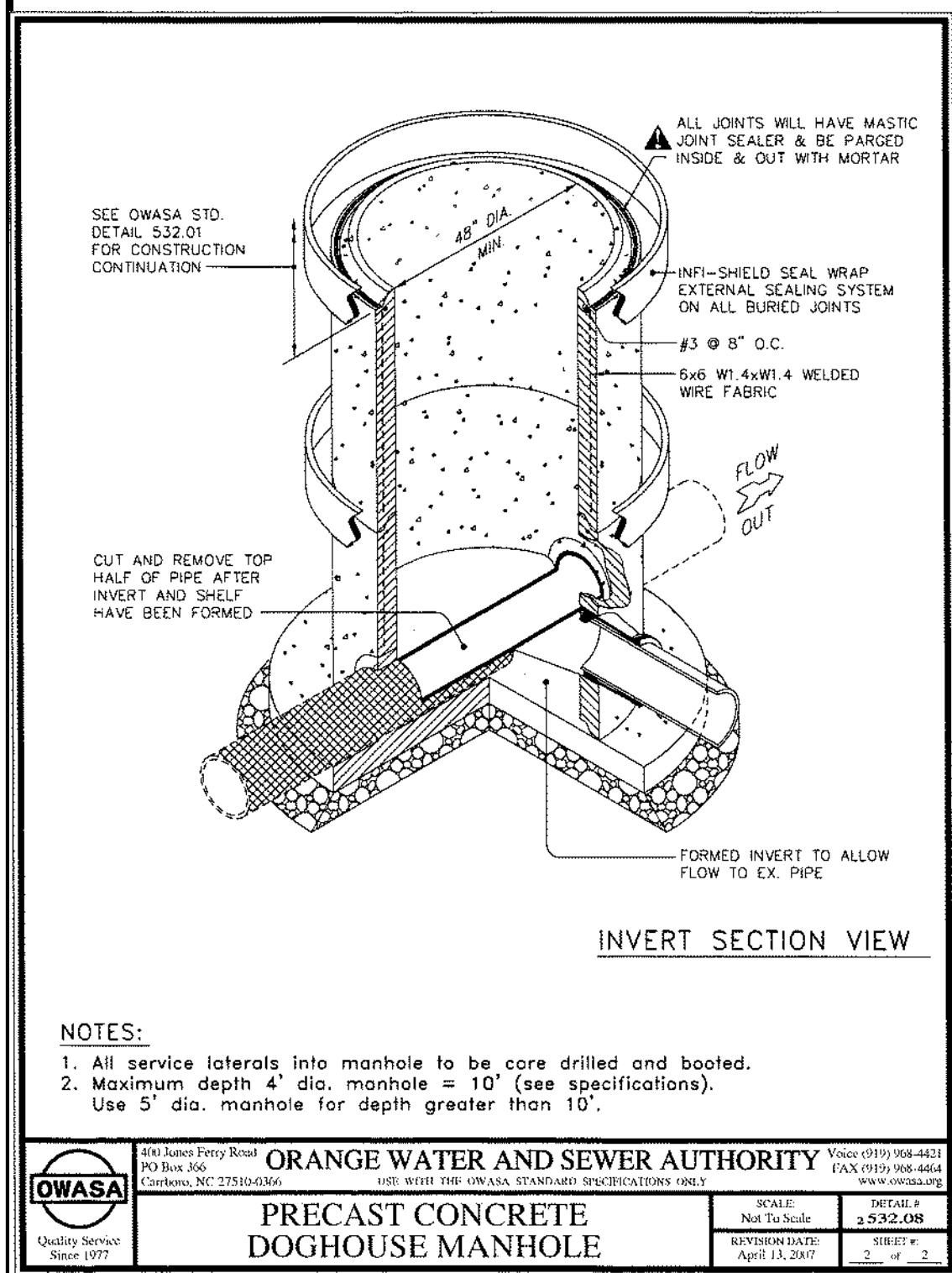
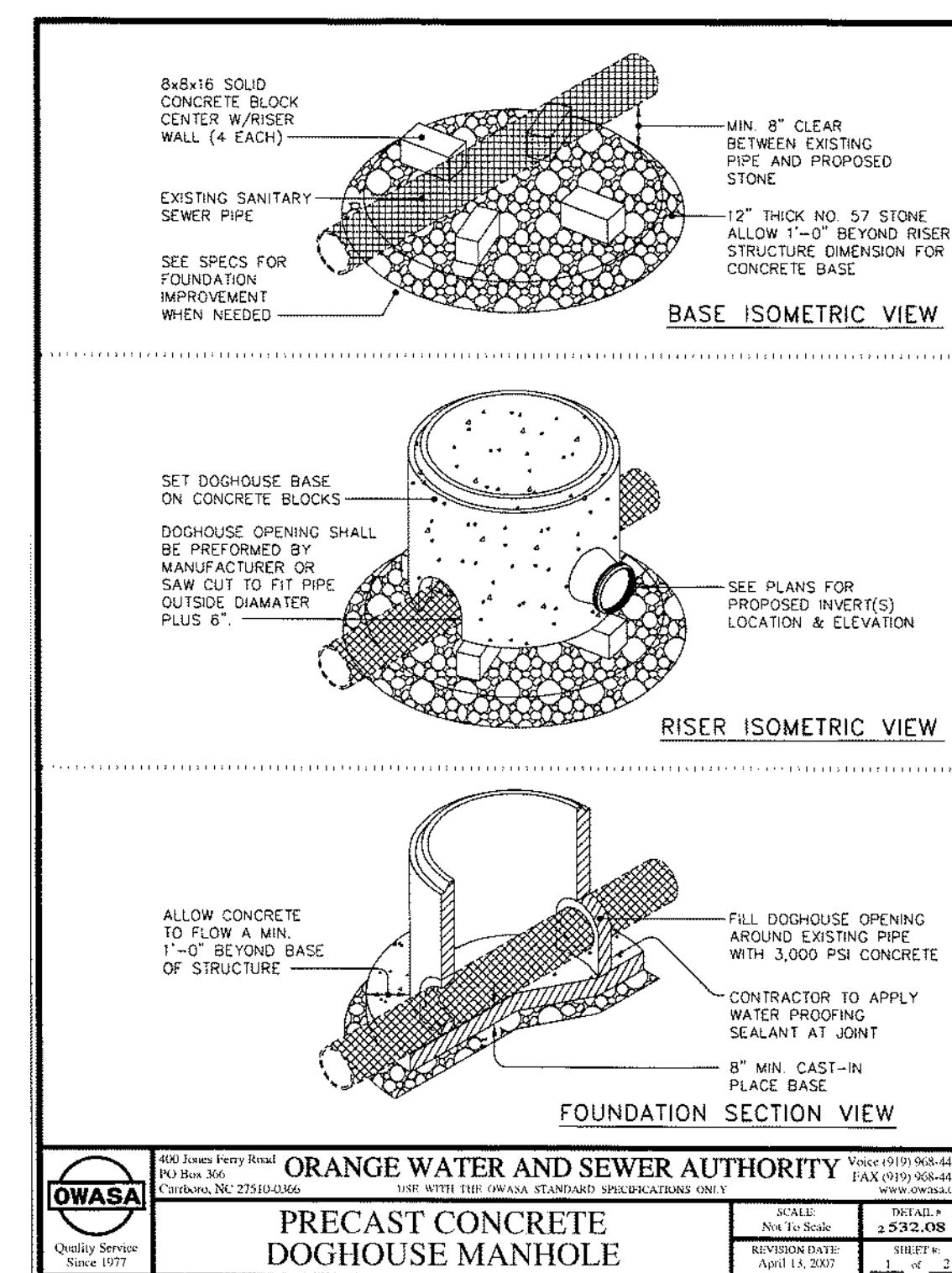
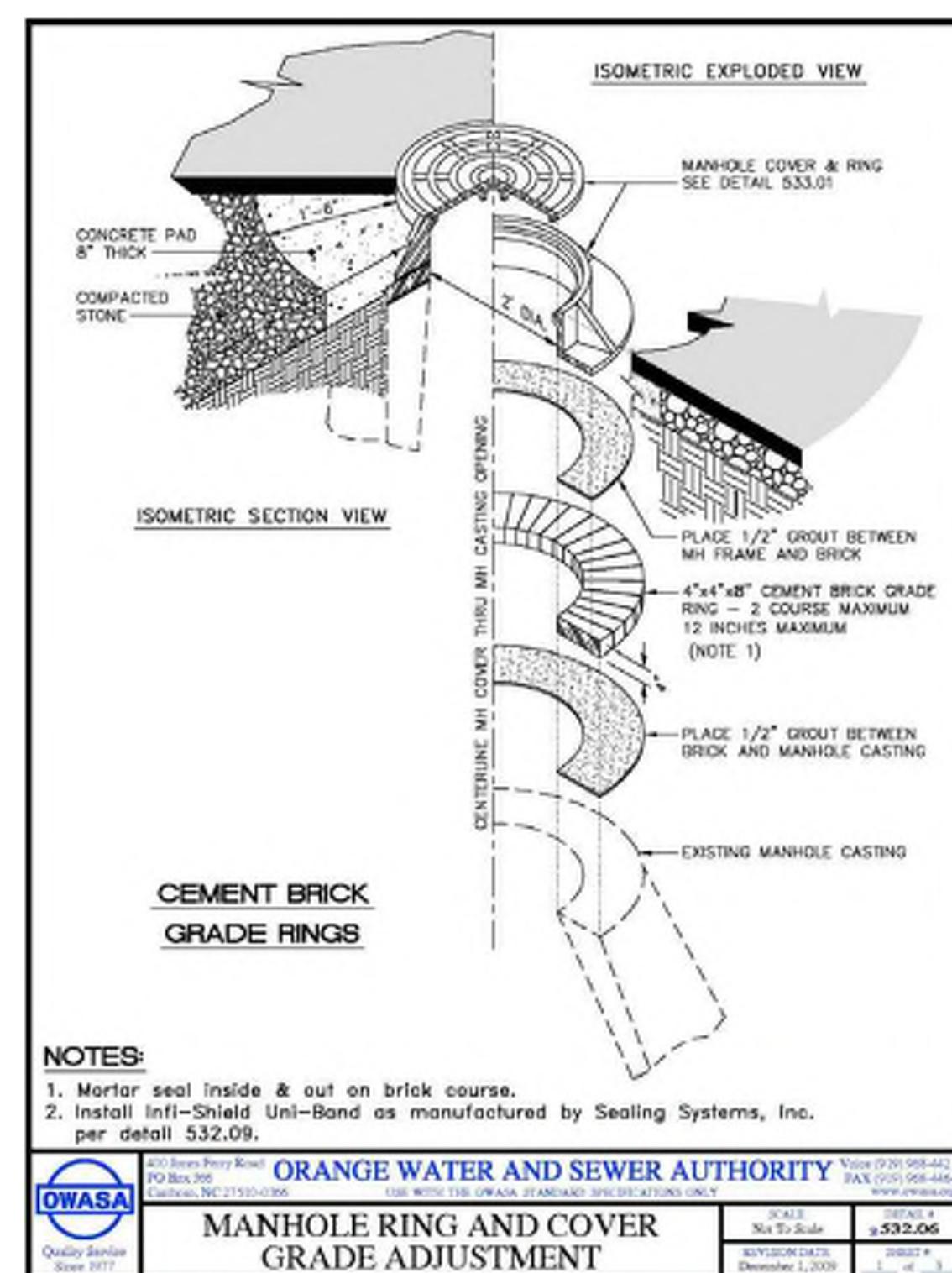
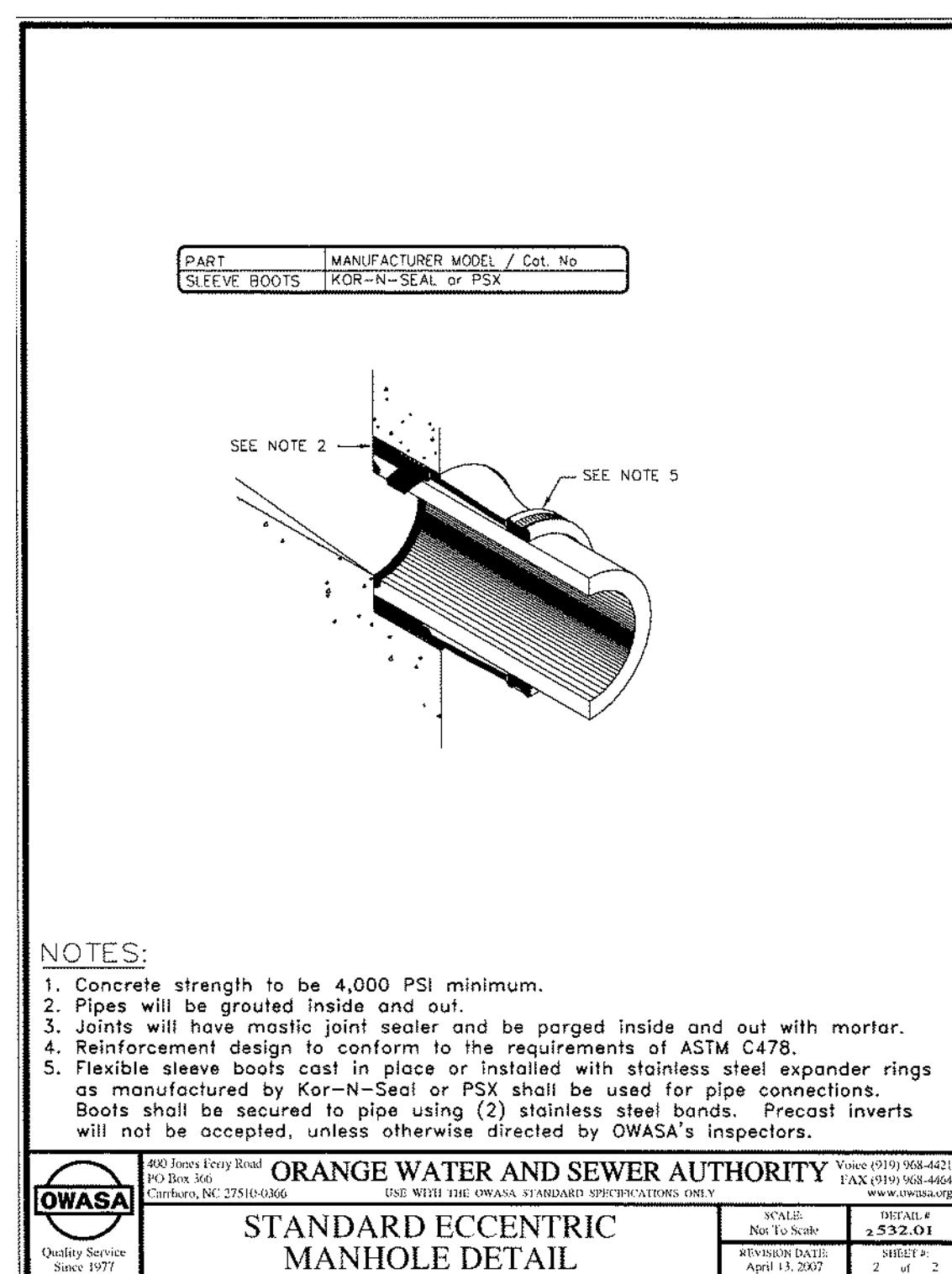
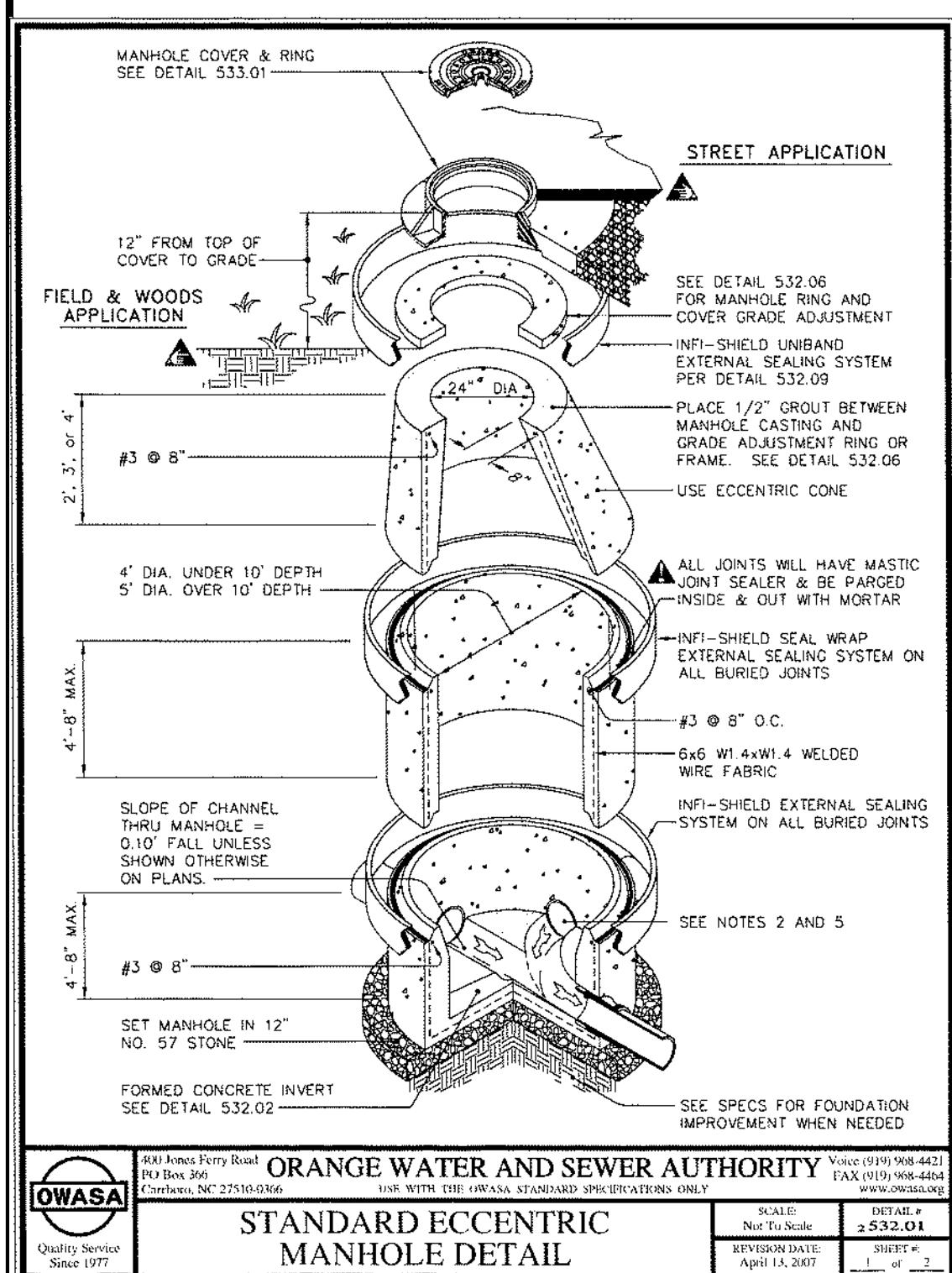
DRAWING SCALE: N.T.S.

DRAWN BY: RLM/CSB

APPROVED BY: ESM

CS6051

SHEET 32 OF 39



NOTES: See also Project Specifications referenced below.

1. UNDERGROUND UTILITY VERIFICATION

Landscape contractor to verify location of underground utilities before beginning work.

2. SOIL PREPARATION

Where existing vegetation remains in areas to be seeded, eradicate existing vegetation by having a licensed spray technician apply an approved herbicide or tilling the weeds into the soil. Good pre-seeding weed control may require spraying two applications of herbicide (at least two weeks apart). Close mowing two weeks prior to spraying is recommended to stimulate weed growth. Herbicide must be applied to vegetative growth in order to kill undesirable plants and their roots. The second application is needed only if the first application is insufficient.

Test soil qualified laboratory tests and amend with lime and fertilizer as needed. Achieve a pH of at least 6.0. Amend soils pursuant to the soils test report and till into the top 18" for all compacted soil areas to be vegetated..

For heavy compacted clay soils - Organic matter must be added in order to prevent the clay from hardening after rain events, to the point where emergent seedlings will be unable to push through the soil surface. Organic matter, such as straw, compost, mulch, leaf litter, etc., must be added in order to increase soil organics to at least 1%. The organics must be worked into the top-most soil prior to planting using a tiller, harrow, disk, or similar implement. Cultivating the top 6" of soil will aid in root development of emergent seedlings, and will allow some percolation of rain water that would otherwise run off the surface with little to no infiltration, likely carrying the seed away with it. Tilling of the top 18" of soil is required for all areas of compacted soil.

If heavy soil conditions are encountered where percolation is not adequate to prevent ponding after a normal rainfall event then the following procedures supersede those illustrated in the accompanying details. Where subgrade does not allow for natural drainage through amendments or subsurface drainage, rootballs shall be set at a depth not to exceed 1/2 of the total rootball depth. Provide additional amendments or drainage as needed to ensure survival of the plant after consulting with landscape architect.

Tracking slopes with mechanized equipment should be done perpendicular to fall line to minimize runoff and erosion.

See Tree Pit Detail for structural soil backfill, tree aeration and stabilization and deep root watering.

3. IRRIGATION

All new plant areas of site as shown on the plans are to be irrigated. Design-Build system design to be submitted to the landscape architect for review and approval prior to installation. Irrigation design shall provide high efficiency drip or spray irrigation to all tree and shrub areas and rotary or spray irrigation to all turf areas. Irrigation design shall incorporate a Root Watering System (RWS) capable of complete deep root watering of root balls. Irrigation Contractor shall be licensed as required by the State in which the work is to be conducted.

4. PLANT MATERIAL STANDARDS

All plant material and planting standards specified shall meet the minimum standards for nursery stock- ANSI Z60.1-2004 or the County whichever is stricter. Any material with evidence of disease or pest infestations will be rejected. All rework will be at the expense of the Contractor. Substitutions will be permitted only upon prior approval by the Landscape Architect or Owner's Representative. Contractor shall be responsible for furnishing all seed tags and plant tags affirming origin and species. Plant tags shall not be removed prior to final inspection and acceptance. Contractor is responsible for the health of all plant material for a minimum of 30 days following final acceptance. If contractor is awarded a contract for maintenance then he/she shall be responsible for the health and/or replacement of all material as set forth by the maintenance contract.

5. MISCELLANEOUS NOTES - ANNUALS, MULCH & PLACEMENT OF PLANTS

a. Landscape contractor shall submit a schedule of proposed plantings for all annual beds and planters providing for spring and fall plant rotations. Select plants to provide variety and unity. Submittal shall be made to Landscape Architect or Owner's Representative for approval prior to installation.
b. Tree placement and landscape bed layout to be approved by landscape architect prior to installation.
c. All disturbed areas are to be stabilized with lawn, plantings, or mulch. Mulch around all plants as specified. trees shall be mulched with pine straw except within 6' of buildings or as prohibited by local ordinances. Double shredded hardwood bark mulch shall be used for all perennials and annual beds. Provide steel or aluminum landscape edging (dark green in color) where liriope spicata is to be installed adjacent to shrub, turf, or other mulch areas.
d. All turf areas shall be seeded or sodded as noted on plans and as specified below.
e. See LANDSCAPE MAINTENANCE OUTLINE for additional specifications.

f. Plant Quantities shown in the Plant List are included for convenience. Contractor shall be responsible for verifying quantities and providing all plants shown on plan.

6. WARRANTY

All plant material shall be warranted by the Landscape Contractor installing the material while under his/her care. Alternative arrangements made for the installing contractor to supervise the ongoing maintenance and prescribe corrective actions that are then carried out may extend this warranty period subject to the approval by all parties. Additional warranty details are included in Specifications referenced below.

Note: These plans, details and specifications do not comprise the complete project specifications. See Complete Project Specifications which accompany these plans. The Seeding Specifications noted below are superseded by complete project specifications. Reference Specification Sections noted below:

1. Final Grading & Soil Preparation 32 9113
2. Planting Soils Section 32 9115
3. Planting - Section 32 9300
4. Turf & Grasses (Sod) Section 32 9200
5. Seeding 32 9219

SEEDING SPECIFICATIONS AND SCHEDULES

Temporary Seeding:

All areas disturbed by construction will be stabilized with temporary seeding immediately following grading. Seeding will comply with the standards and specifications of the latest edition of the Erosion and Sediment Control Regulations for the State or jurisdiction in which the project is located. Seeded areas will be maintained in keeping with accepted practices and care.

Permanent Seeding: Level-1 TURF AREAS

August 15th - April 1st

Cool Season Turf Grass - Seed with Kentucky 31 Fescue 100 lbs/ac + 75 lbs/ac Creeping Fescue (Rubra rubra) + Kentucky Bluegrass 10 lbs/ac; straw and tack all newly seeded areas not hydro seeded.

Sod - as noted below

April 1st - May 1st

Cool Season Turf Grass - Seed with Kentucky 31 Fescue 100 lbs/ac + 75 lbs/ac Creeping Fescue (Rubra rubra) + Kentucky Bluegrass 10 lbs/ac; straw and tack all newly seeded areas not hydro seeded.

Sod - as noted below

May 1st - August 15th

Warm Season Turf Grass - Sunsport Improved Bermuda - 3 lbs/1,000 sf

Sod - as noted below

Permanent Seeding Level-2 Areas Low Maintenance Steep (Steep slopes >3:1 H:V) - Seeding Schedule

Seed	Rate
Kentucky 31 Tall Fescue	150 lbs/ac
Creeping Fescue or Redtop (Festuca rubra)	20 lbs/ac
Bermudagrass**	20 lbs/ac
Eragrostis curvula (Schrad.) Nees	2 lbs/ac
Resolute White Clover	20 lbs/ac
Seasonal Nurse Crop*	20 lbs/ac
	232 lbs/ac Total

SOD AREAS

El Toro or Empire Zoysia Sod shall be installed in all areas shown or noted as sod. Contractor shall be responsible for handwatering sod until established where no irrigation is proposed. If planting schedule requires sod placement during formant periods, a hybrid Berumda sod shall be substituted and overseeded with annual rye. Substitute sod variety availability shall be submitted to Landscape Architect for approval.

LANDSCAPE MAINTENANCE OUTLINE

The following outline describes the basic elements of work that will be performed throughout the calendar year:

I. LAWNS - WARM SEASON TURF

A. Mowing

All lawns will be mowed as needed throughout the year in order to maintain a clean, neat appearance. Typically all lawns will be cut at a height of 2" for warm season grasses and 3"-4" for cool season grasses.

B. Fertilization and Weed Control

February/March: All lawns will be treated with a pre-emergent herbicide for the prevention of annual weed grasses and broadleaf weeds.

March: All lawns will be treated with a high-density fertilizer to promote Spring plant growth and replace nutrients lost due to leaching during the Winter months.

May: All lawns will be treated with a post-emergent herbicide for control of broadleaf weeds and weed grasses, plus a slow-release fertilizer to maintain a healthy turf during the Summer months.

September: All lawns will have a Fall application of fertilizer to replace nutrients lost during the Summer months.

November: All lawns will be treated with a slow-release fertilizer with Iron-Plus to promote Winter hardiness.

C. Insects and Disease Control

All lawn areas will be monitored for infestation of insects or appearance of turf diseases. Due to the unpredictable nature of these problems, treatments will be performed on an "as needed" basis to prevent and control infestations. All insecticides/fungicides will be applied under the supervision of a Certified Pesticide Applicator. Vertebrate pests such as deer, beaver, voles, and moles shall be monitored and reported to property manager when occurrences are noted.

II. EDGING

A. Lawns

All curbs and sidewalks will be edged, as needed, throughout the year in order to maintain a clean cut, crisp edge.

B. Shrub Beds

All bed lines will be edge cut once a year.

III. PLANTING

A. Weed Control

March: all bed areas will be treated with a pre-emergent herbicide to control weed seed germination (Ex. Barricade, Snapshot, pendulum)

When needed, all beds will be treated with the selective post-emergent herbicide, (Ex. Finale, Roundup, Reward), to control weed seeds, which have germinated.

Additional hand weeding and selective spraying of herbicides such as ROUND-UP will be performed as needed

All applications will be applied under the supervision of a licensed Certified Pesticide Applicator.

B. Fertilization

All evergreen shrub beds will be fertilized in the early Spring according to soil test results and plant /fertilizer recommendations.

All blooming trees and shrubs (i.e., azalea, rhododendron, dogwoods, redbud) will be fertilized with a complete analysis fertilizer 4 to 5 weeks after blooming.

Deciduous trees and shrubs except blooming species will be fertilized with a complete slow release fertilizer in the early Spring and two additional times during the growing season.

C. Pruning

All plantings will be pruned at the appropriate time of the year according to type / species. For example, Spring blooming trees and shrubs will be pruned after flowering while Summer blooming species will be pruned in Winter or early Spring

D. Insect and Disease Control

All plantings will be monitored for infestation of insect or appearance of disease. Once identified, chemical treatments will be applied. All applications will be performed under the supervision of a licensed Certified Pesticide Applicator.

IV. CLEAN-UP

A. Grounds

All grounds will be policed on a bi-weekly basis.

Major damage due to high winds, ice, snow, or other unpredictable acts of nature is not included but shall be offered on an hourly basis. Contractor shall provide property manager with hourly rates for labor and equipment at the time of contract acceptance/renewal.

Leaf clean-up of walks, turf areas, shrub beds and other high visibility areas is to be provided weekly. Leaf cleanup in out lying natural areas is to be provided twice per year in the fall.

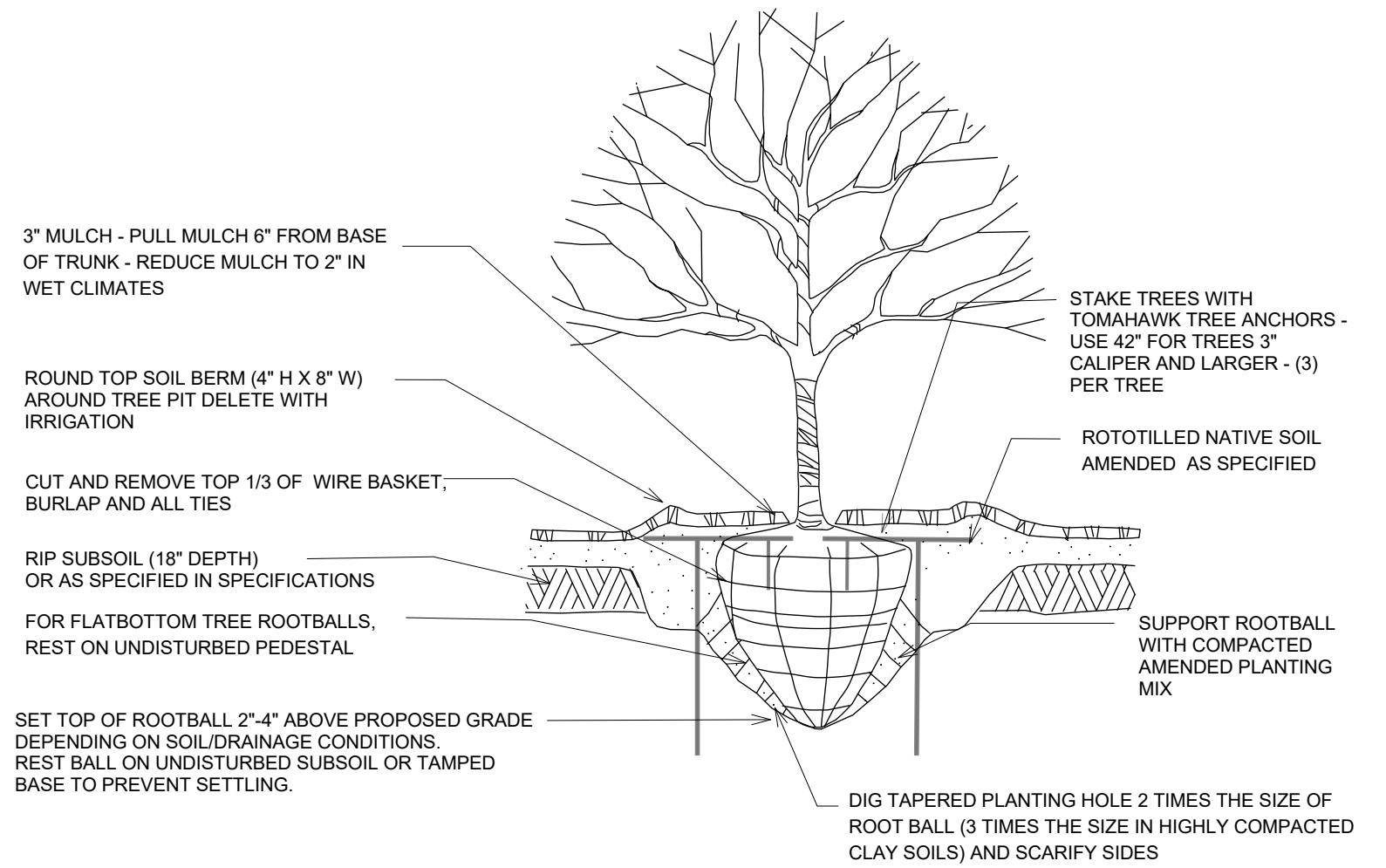
V. IRRIGATION (if provided)

All irrigation will be monitored on a weekly basis to insure coverage per the irrigation design. Repairs made as needed. Cost for repairs shall be specified in Landscape Contract. Provisions shall be made to draindown in the fall to insure against freezing.

SHRUB PLANTING AND GROUNDCOVER PLANTINGS

3 LA-1.1

N.T.S.



TREE PLANTING

1 LA-1.1

N.T.S.

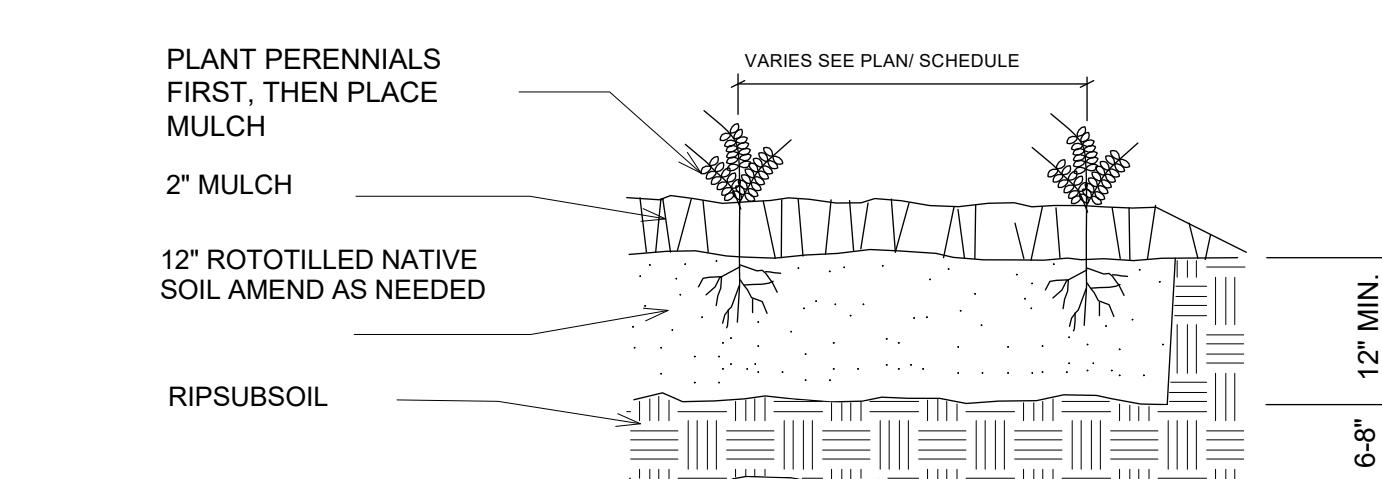
SET TOP OF ROOTBALL 2"-4" ABOVE PROPOSED GRADE DEPENDING ON SOIL/DRAINAGE CONDITIONS. REST BALL ON UNDISTURBED SUBSOIL OR TAMPED BASE TO PREVENT SETTLING.

NEVER CUT LEADER
3" MULCH
CUT AND REMOVE BURLAP/WIRE BASKET AND TIES FROM TOP 1/3 OF ROOTBALL
PREPARE AND AMEND NATIVE SOIL AS SPECIFIED
ROUND TOP SOIL BERM (4" H X 8" W) AROUND TREE PIT DELETE WITH IRRIGATION
DIG TAPERED PLANTING HOLE 3 TIMES THE DIAMETER OF THE ROOT BALL AND SCARIFY SIDES
SCARIFY SUBSOIL
STAKE OR GUY ALL EVERGREENS 5' OR TALLER WITH 42" TOMAHAWK TREE ANCHORS

EVERGREEN TREE PLANTING

2 LA-1.1

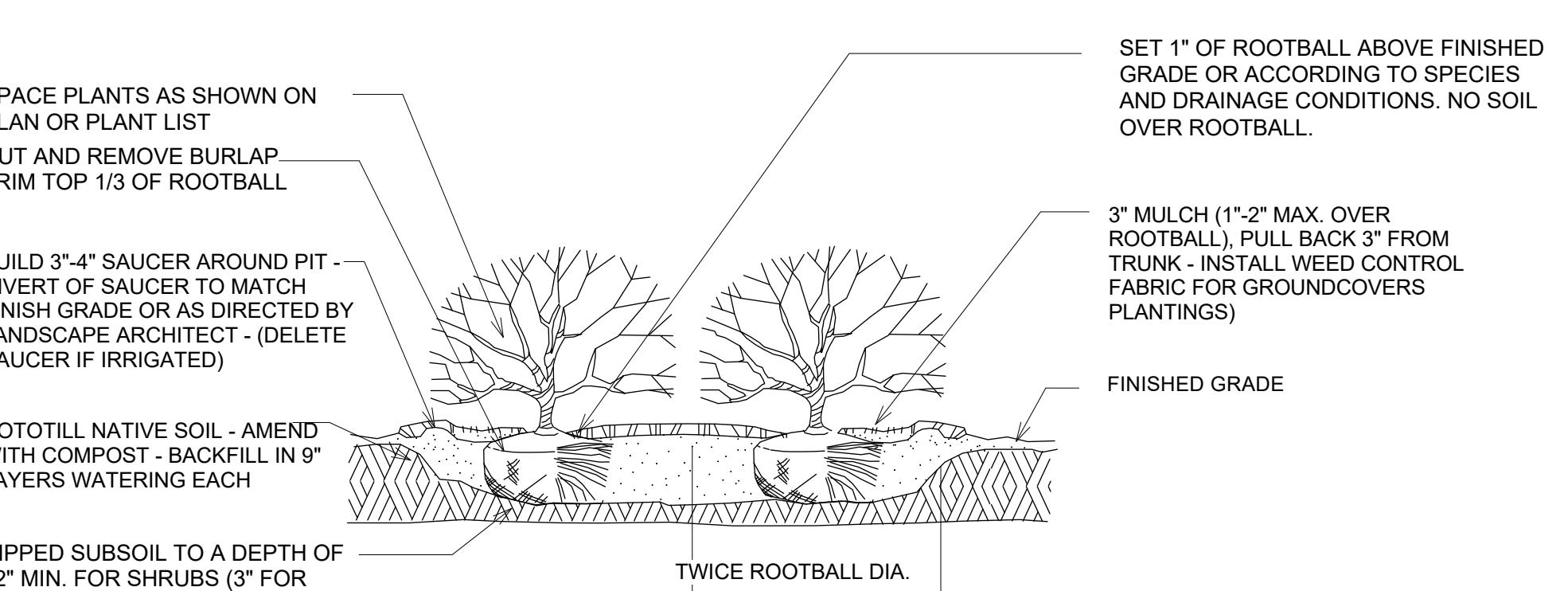
N.T.S.



PERENNIAL PLANTING

4 LA-1.1

N.T.S.



3 LA-1.1

N.T.S.

MULCH EDGE

5 LA-1.1

N.T.S.

Note:
All Tree placements conform to the
NCDOT Guidelines for Planting Within Highway Right-of-Way.

SCOTT MURRAY
LAND PLANNING, INC.

Landscape Architecture | Environmental Design | Project Management

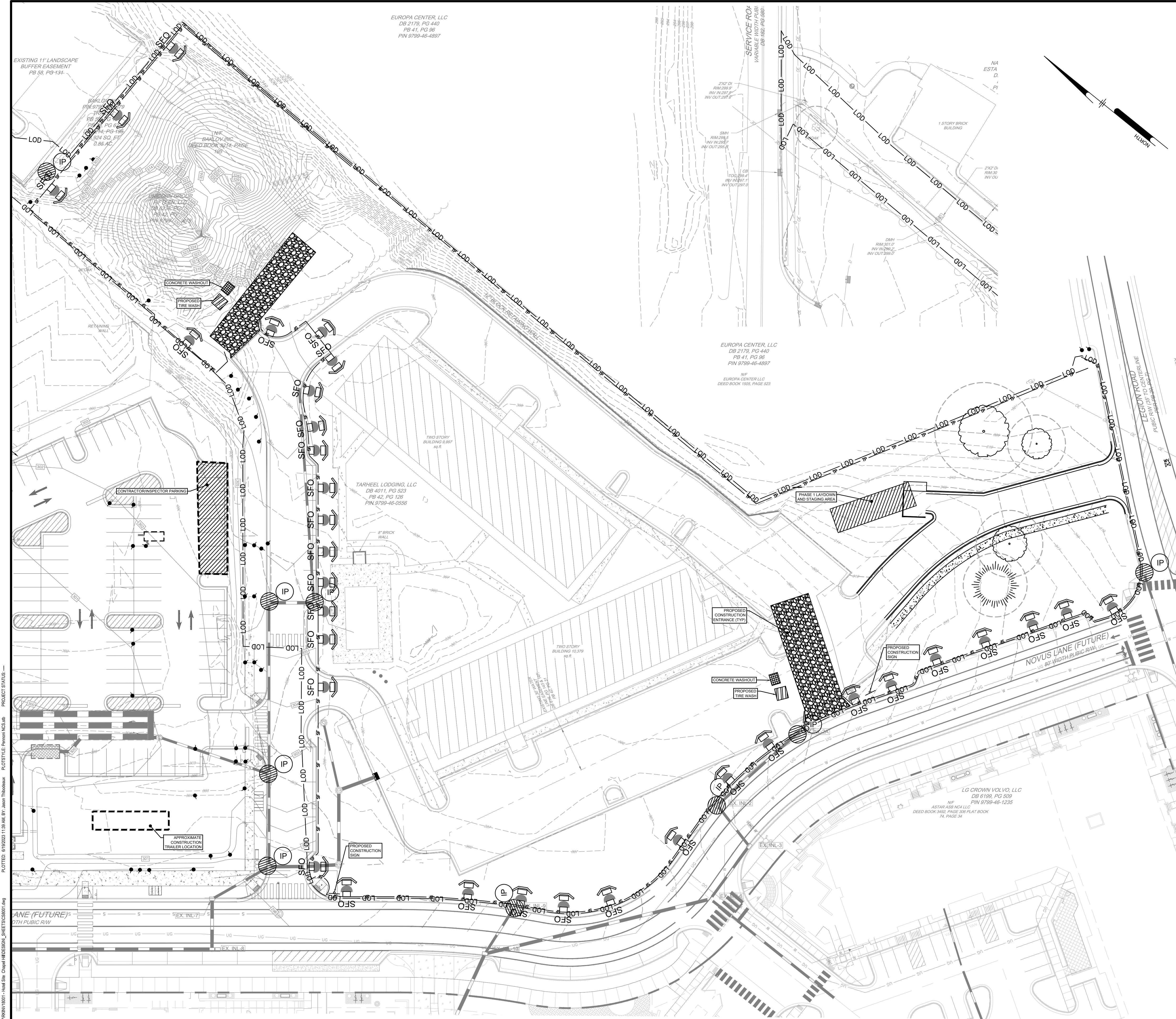
Scott Murray Land Planning, Inc.
274 Botetourt Ct. Boydtown, VA 23917
252-213-9501 434-689-2925 (fax)
www.smilandplan.com
smurray@smilandplan.com

Project:
Tarheel Lodging
Redevelopment
Chapel Hill, North Carolina

Developer:
Tarheel Lodging, LLC
and
Unicorn Group
Fifteen, LLC

Sheet Title::
Planting
Details
and
Maintenance
Plan

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SEQUENCE OF CONSTRUCTION:

THE TOWN OF CHAPEL HILL AND ORANGE COUNTY PLANNING & INSPECTION DEPARTMENT MUST BE NOTIFIED TO SCHEDULE A PRE-CONSTRUCTION MEETING PRIOR TO ANY EARTHMOVING ACTIVITY. OBTAIN ALL NECESSARY PLAN APPROVALS AND PERMITS PRIOR TO COMMENCING WORK. HOLD A PRE-CONSTRUCTION CONFERENCE WITH THE ENGINEER, OWNER'S REPRESENTATION, ORANGE COUNTY EROSION CONTROL OFFICER (919-245-2588), THE TOWN OF CHAPEL HILL, THE CONTRACTOR AND REPRESENTATIVES FROM ANY OTHER APPLICABLE REGULATORY AGENCIES.

AFTER EACH RUNOFF EVENT, TEMPORARY EROSION CONTROL FACILITIES SHALL BE CLEANED. ALL SILT REMOVED FROM EROSION CONTROL FACILITIES DUE TO EROSION SHALL BE DROPPED INTO THE EARTHWORK FILL OR WASTED ON THE SITE AS DIRECTED BY THE OWNER OR THEIR REPRESENTATIVE. EACH TASK MUST BE COMPLETED AND STABILIZED PRIOR TO COMMENCING THE NEXT TASK UNLESS NOTED.

ALL INGRESS TO AND EGRESS FROM THE SITE DURING CONSTRUCTION SHALL BE LIMITED TO THE CONSTRUCTION ENTRANCES FOR EACH AREA AS NOTED ON THE PLANS. IF ADDITIONAL POINTS OF ACCESS TO THE CONSTRUCTION SITE ARE REQUIRED, A TIRE CLEANING FACILITY MUST BE INSTALLED AND MAINTAINED. ANY BMPs THAT ARE DISTURBED DURING CONSTRUCTION, AND PROPOSED GRADING OR UTILITY INSTALLATIONS SHOULD BE IMMEDIATELY REPAIRED AND RESTABILIZED.

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED TO ONLY THOSE AREAS DESCRIBED IN EACH STAGE.

THE OWNER SHALL REMOVE FROM THE SITE, RECYCLE OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE ORANGE COUNTY SOLID WASTE REGULATED RECYCLABLE MATERIALS ORDINANCE.

IMMEDIATELY FOLLOWING THE COMPLETION OF THE MOST RECENT LAND DISTURBING/GRADING ACTIVITY, TEMPORARILY STABILIZE THROUGHOUT CONSTRUCTION ANY DISTURBED AREAS, INCLUDING MATERIAL STOCKPILES THAT ARE SCHEDULED OR LIKELY TO REMAIN INACTIVE FOR 7 DAYS OR MORE.

PHASE 2A-1 CONSTRUCTION SEQUENCE

- PRIOR TO GENERAL DEMOLITION ACTIVITIES, INSTALL STABILIZED CONSTRUCTION ENTRANCE AND CONSTRUCTION STAGING AREA. BEGIN INSTALLATION OF CONSTRUCTION SIGNAGE, PERIMETER CONSTRUCTION FENCING, SILT FENCE, SILT FENCE OUTLETS, AND TREE PROTECTION. INSTALL ALL INLET PROTECTION FACILITIES AS SHOWN ON THE PLAN.
- PERFORM UTILITY LOCATION AND EXCAVATE ALL TEST PITS. ALL EXISTING UTILITIES MUST BE LOCATED PRIOR TO COMMENCING ANY EARTH-MOVING ACTIVITIES.
- BEGIN DEMOLITION OF EXISTING BUILDING AND STRUCTURES THAT ARE TO BE REMOVED. EXISTING UTILITIES THAT ARE NOT INTENDED FOR CONTINUED USE SHOULD EITHER BE REMOVED OR CAPPED AND ABANDONED IN PLACE IN ACCORDANCE WITH THE DIRECTIONS OF THE APPROPRIATE UTILITY COMPANY AND AS SHOWN ON THE DEMOLITION PLAN.
- ONCE ALL BUILDINGS AND UTILITIES HAVE BEEN REMOVED AND/OR DEMOLISHED, PROCEED TO PHASE 2A-2.

PHASE 2A-2 CONSTRUCTION SEQUENCE

- PRIOR TO ANY MAJOR EARTH-MOVING ACTIVITIES, FINISH ROAD A CONNECTION TO THE NORTH. THIS WORK SHALL INCLUDE GRAZING AND INSTALLATION OF STORMWATER STRUCTURES AND PIPING WORKING FROM DOWNSTREAM TO UPSTREAM, INCLUDING INLETS AND STORMWATER MANHOLES. SANITARY SEWER PIPES AND STRUCTURES INCLUDING THE CONNECTION TO EXISTING SANITARY MANHOLE, INSTALLATION OF CONCRETE CURBING, DRIVEWAY PAVEMENT STRUCTURE (EXCLUDING FINAL SURFACE). CONCURRENT WITH STREET A CONSTRUCTION, BEGIN EARTHWORK NECESSARY FOR THE ERECTION OF THE BUILDING 1/4 GARAGE. ERECTION OF THE GARAGE.
- BEGIN STRIPPING SITE OF THE EXISTING PAVEMENT AND SUBGRADE MATERIAL STOCKPILING IF MATERIAL IS TO BE REUSED. BEGIN ROUGH GRADING OF FUTURE PHASE PAVEMENT AND LANDSCAPE AREAS SUBJECT TO EARTHWORK. THIS WORK SHALL BE CONDUCTED ON THE SITE. THIS WORK SHALL INCLUDE ROUGH GRADING OF THE BUILDING PAD AREA. STABILIZE SITE SINCE ROUGH GRADING IS COMPLETED, INCLUDING BUT NOT LIMITED TO STONE, SUBGRADE MATERIAL AND TEMPORARY STABILIZATION OF LANDSCAPE AREAS (SEE TEMPORARY STABILIZATION NOTES).
- INITIATE EARTHWORK NECESSARY TO REACH FINAL GRADES INDICATED ON THE PLANS. BEGIN INSTALLATION OF STORM SEWER INLETS AND PIPING AS GRADING ALLOWS. INSTALLATION OF STORM SEWER SHALL BE FROM DOWNSTREAM TO UPSTREAM AS SHOWN ON THE PLAN. UPON COMPLETION OF THE STORM SEWER, INSTALL DOWNTREAM PIPES, INSTALL IMMEDIATELY STABILIZED SANITARY INLET PROTECTION FACILITIES WITHIN EACH INLET. BEGIN INSTALLATION OF SANITARY SEWER MANHOLES AND PIPING. INSTALLATION OF SANITARY SEWER SYSTEM SHALL BE FROM DOWNSTREAM TO UPSTREAM. BEGIN INSTALLATION OF WATER MAIN, HYDRANTS, AND SERVICE LINES AS SHOWN ON THE PLAN.
- UPON COMPLETION OF UTILITIES, CONSTRUCT CURBIS AND IMMEDIATELY STABILIZE THE AREAS TO BE PAVED WITH STONE SUBGRADE AND THE TURF AREAS WITH EROSION CONTROL BLANKET AS APPROPRIATE. INSTALL SIDEWALKS FOLLOWED BY INSTALLATION OF VEGETATION INCLUDING ALL LANDSCAPING AND GRASSED AREAS.
- PRIOR TO PLACEMENT OF THE FINAL PAVEMENT WEARING COURSE, ALL OTHER CONSTRUCTION MUST BE COMPLETED INCLUDING BUILDINGS, DRIVEWAYS, LANDSCAPING, GRADING AND CONCRETE WORK. UPON COMPLETION, INSTALL FINAL WEARING COURSE, SIGNAGE AND STRINGS.
- CLEAR SITE OF ALL DEBRIS AND ALL UNWANTED MATERIALS. DISPOSAL SHALL BE IN A SAFE AND LAWFUL MANNER.
- WHEN PERMANENT STABILIZATION OF A UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION HAS BEEN ACHIEVED AND THE INSPECTOR HAS ACCEPTED THE STABILIZATION, REMOVE ALL REMAINING TEMPORARY EROSION CONTROL FACILITIES INCLUDING SILT FENCING, INLET PROTECTION DEVICES, CONSTRUCTION ENTRANCES AND SILT FENCE OUTLETS. AREAS DISTURBED DURING REMOVAL OF THE TEMPORARY BMP FACILITIES SHALL BE IMMEDIATELY STABILIZED. UNSEAL FILTERRA UNITS AND DEMOBILIZE.

EROSION LEGEND

SYMBOL	DESCRIPTION
— LOD	PROPOSED LIMIT OF DISTURBANCE
— SF	PROPOSED SILT FENCE
■■■	PROPOSED CONCRETE WASH OUT
■■■■■	PROPOSED SILT FENCE OUTLET
● IP	PROPOSED INLET PROTECTION
■ SFO	PROPOSED MODIFIED SILT FENCE OUTLET

LIMITS OF DISTURBANCE: 4.252 AC (185,202 SF)

0 30' 60'

NOT FOR CONSTRUCTION

EROSION AND SEDIMENT CONTROL PLAN PHASE 2A-1

TARHEEL LODGING, LLC & UNICORN GROUP FIFTEEN, LLC
1142 FORDHAM BLVD.
CHAPEL HILL, NC 27516

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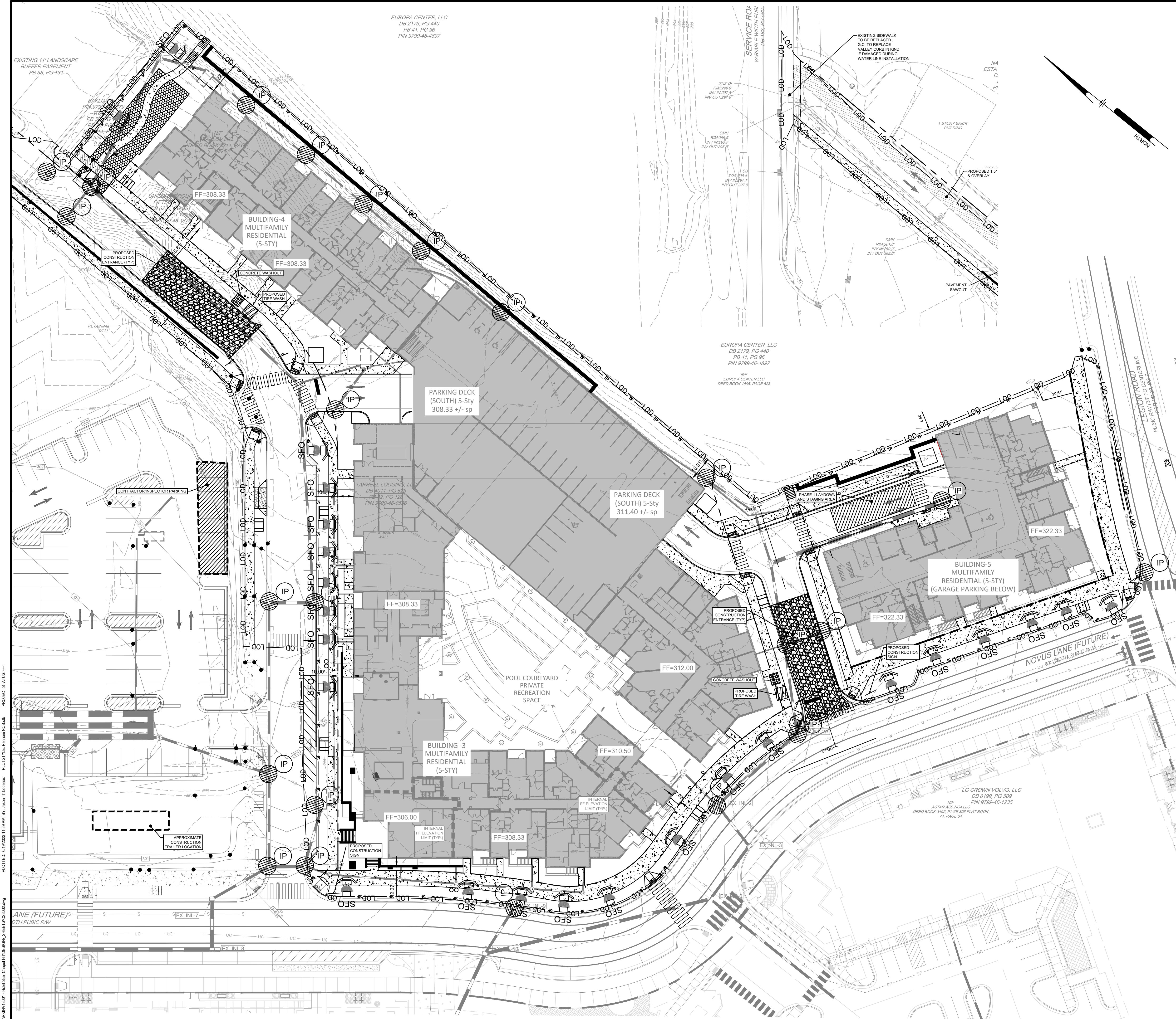
PROJECT	RKINV18001
DATE	2018/05/23
DRAWING SCALE	AS SHOWN
DRAWN BY	DTR
APPROVED BY	ESM

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CS8001
SHEET 35 OF 39

Pennoni
PENNOMI ASSOCIATES INC.
5430 Wade Park Boulevard
Suite 106
Raleigh, NC 27607
T 919.929.1173 F 919.933.6548





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T 919.929.1173 F 919.935.6548



EROSION AND SEDIMENT CONTROL PLAN
PHASE 2A-2
TARHEEL LODGING, LLC & UNICORN GROUP FIFTEEN, LLC
1142 FORDHAM BLVD.
CHASE HILL, NC 27516
6110 FALCON RIDGE ROAD

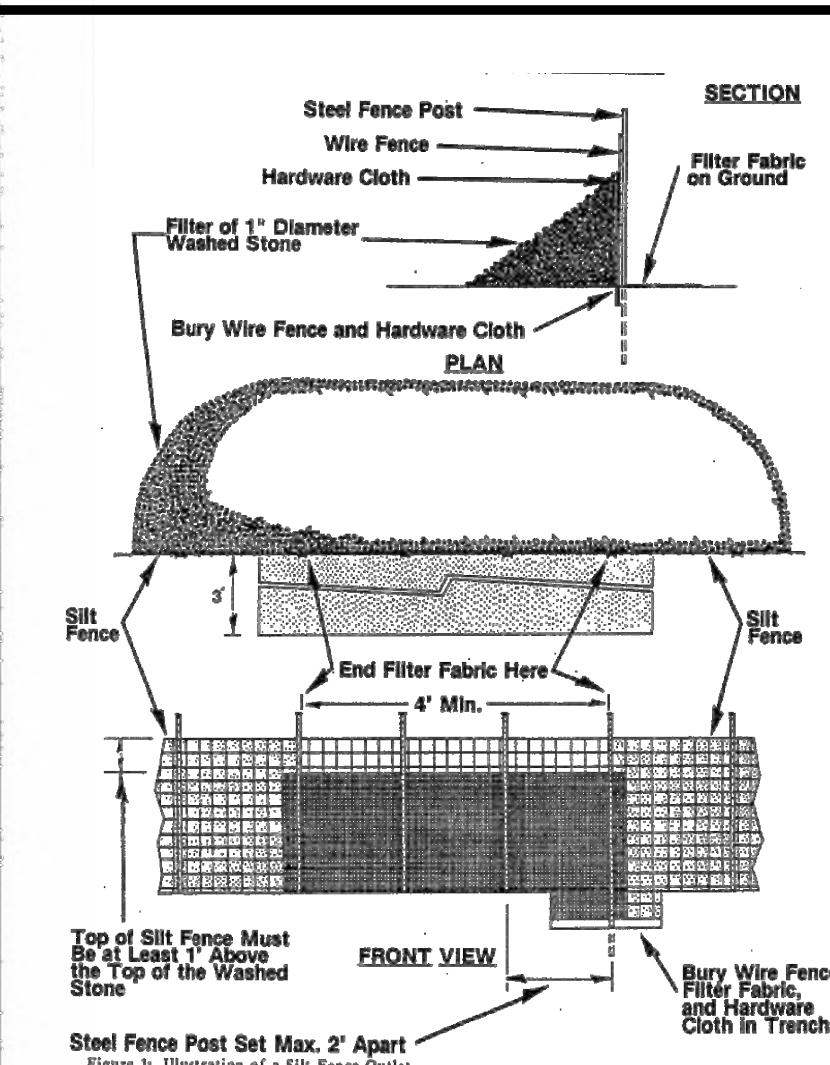
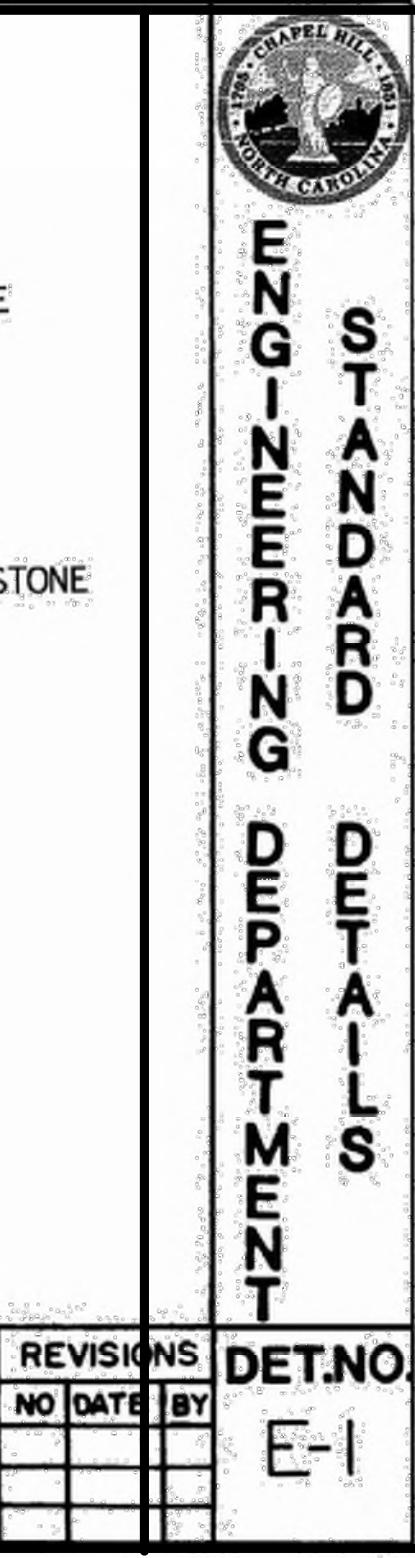
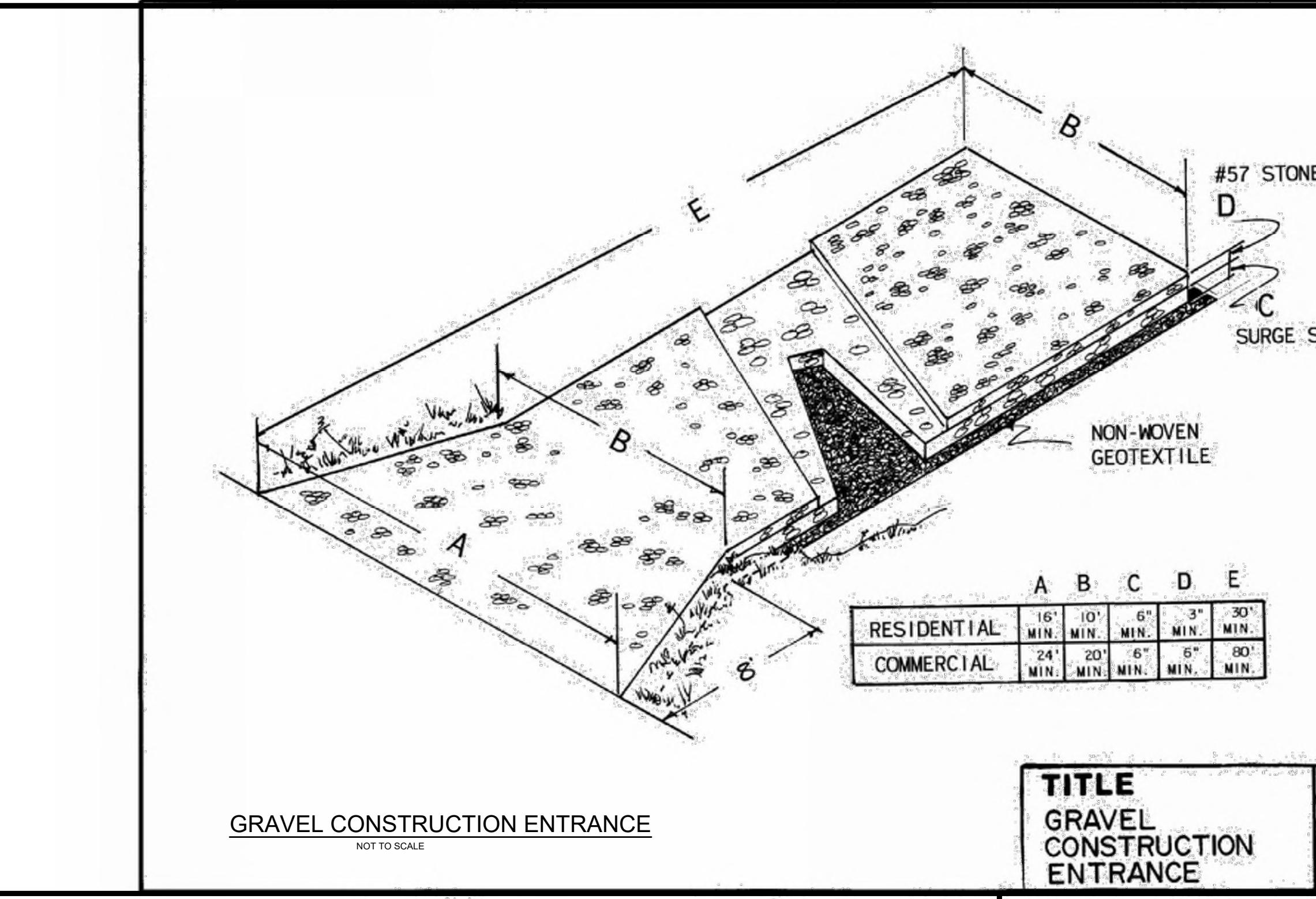
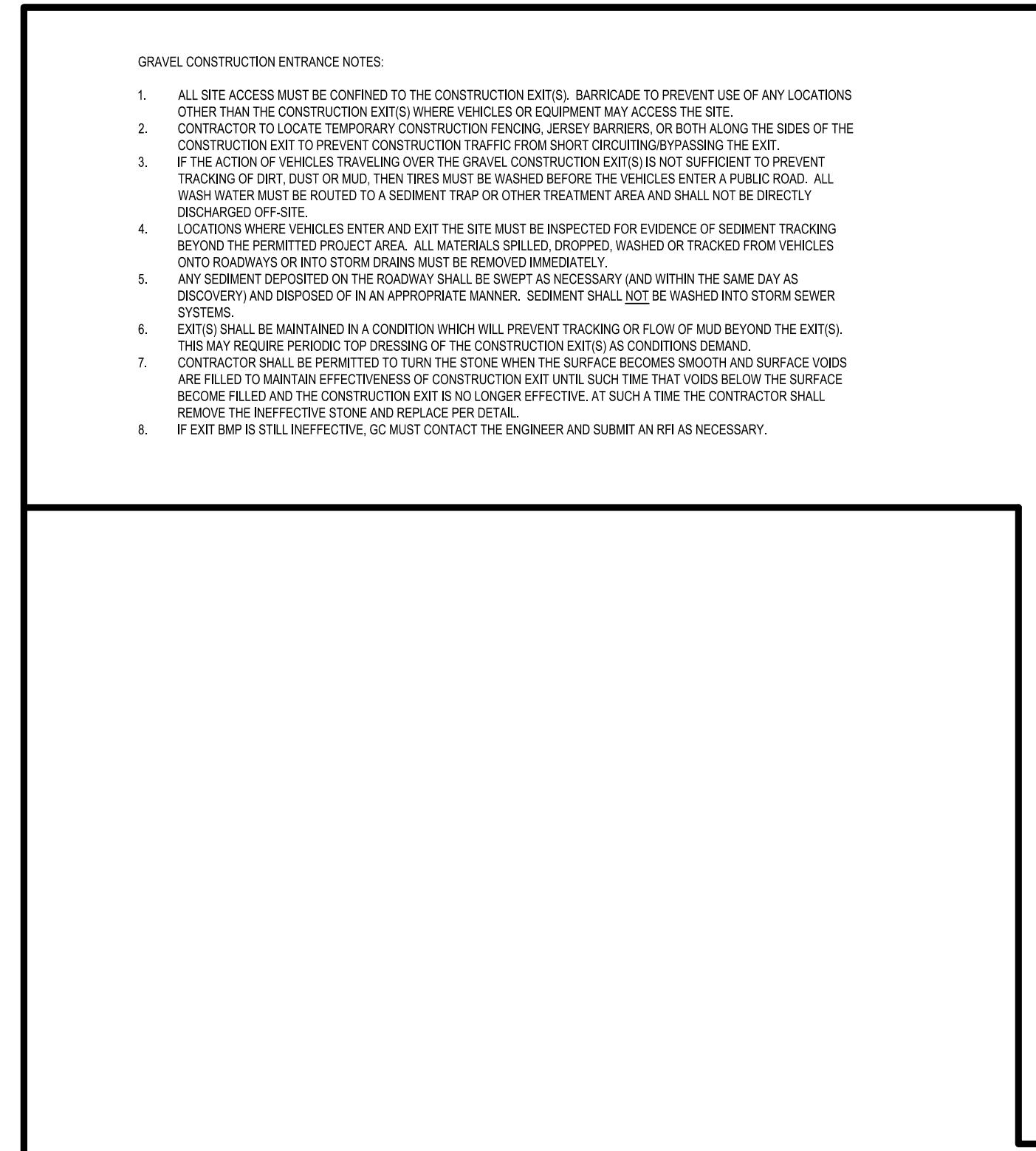
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RKINV18001
PROJECT
DATE 04/26/2023
DRAWING SCALE 1" = 40'
DRAWN BY DTR
APPROVED BY ESM

SHEET 36 OF 39

CS8002

<p>NOTES:</p> <ol style="list-style-type: none"> ALL ON-SITE TOPSOIL MUST BE PRESERVED FOR REUSE ON THE SITE DURING REVEGETATION, UNLESS IT IS INFEASIBLE OR UNREASONABLE TO DO SO. (NOTE: TOPSOIL STOCKPILING ON-SITE MAY BE INFEASIBLE IF SPACE IS NOT AVAILABLE ON-SITE FOR TOPSOIL STOCKPILING OR IF LITTLE TO NO VEGETATION IS TO REMAIN UNDER POST-CONSTRUCTION CONDITIONS.) ALL SOIL STOCKPILES MUST BE STABILIZED TO PREVENT EROSION AND FUGITIVE DUST. THE SURFACE OF THE STOCKPILE MUST BE PROPERLY PROTECTED TO ELIMINATE THE RISK OF EROSION. SEE TEMPORARY SEDIMENT OR STABILIZATION DETAIL. SUITABLE ALTERNATIVE MEANS OF STABILIZATION CAN BE USED, SUCH AS PROPERLY ANCHORED PLASTIC TARPS. PERIMETER SEDIMENT CONTROLS ALSO MUST BE INSTALLED AT STOCKPILE LOCATIONS TO PREVENT CONTACT WITH STORMWATER, INCLUDING RUN-ON. STOCKPILES MUST BE LOCATED OUTSIDE OF ANY VEGETATED BUFFER AREAS AND SHOULD BE LOCATED AS FAR AS PRACTICABLE FROM STORMWATER CONVEYANCES AND IMPOUNDMENTS AND WATER BODIES. STOCKPILE LOCATIONS SHALL BE NOTED ON THE SITE MAPS. <p>STOCKPILES</p>	<p>NOTES:</p> <ol style="list-style-type: none"> USING WATER FROM BASINS, TRAPS, TANKS, OR OTHER WATER CONTAINMENT AREAS FOR IRRIGATION MINIMIZES DISCHARGE FROM THE SITE, AND IT MAY SATISFY OTHER NEEDS OF THE CONSTRUCTION PROJECT, SUCH AS DUST CONTROL, VEGETATIVE ESTABLISHMENT, ETC. CARE SHOULD BE TAKEN THAT WATER UTILIZED FROM CONTAINMENT AREAS ON-SITE FOR CONSTRUCTION PURPOSES DOES NOT DISCHARGE OFF-SITE. IF DISCHARGE IS ANTICIPATED OR OBSERVED, DEWATERING PROCEDURES STATED IN THE DEWATERING DETAIL MUST BE FOLLOWED. GC SHALL IMPLEMENT IRRIGATION OR DISPERSION AS PRACTICABLE TO REDUCE WATER VOLUME IN IMPOUNDMENTS AND TO FOSTER VEGETATION GROWTH. <p>IRRIGATION OR DISPERSION</p>	<p>NOTES:</p> <ol style="list-style-type: none"> THE GC IS REQUIRED TO, AT A MINIMUM, INITIATE SOIL STABILIZATION MEASURES IMMEDIATELY WHENEVER ANY CLEARING, GRAZING, EXCAVATING OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER, SUCH AS THE USE OF FAST-GERMINATING ANNUAL GRASS/GRASS/GRASS VARIETIES, STRAWHAY, MULCH, WOOD CELLULOSE FIBERS, TACKIFIERS, NETTING AND/OR BLANKETS AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY. (PER NC GENERAL PERMIT - NCG 010000) ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER, SUCH AS THE USE OF FAST-GERMINATING ANNUAL GRASS/GRASS VARIETIES, STRAWHAY, MULCH, WOOD CELLULOSE FIBERS, TACKIFIERS, NETTING AND/OR BLANKETS AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 21 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY. (PER NC DEQ SECTION 6.01 OF PRACTICE STANDARDS AND SPECIFICATIONS) THE GC HAS 21 DAYS FROM INITIATION OF STABILIZATION TO COMPLETE SOIL PREPARATION, SEEDING, MULCHING, AND ANY OTHER REQUIRED ACTIVITIES RELATED TO THE PLANTING AND ESTABLISHMENT OF VEGETATION. THE GC ALSO HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETELY INSTALL NON-VEGETATED MEASURES, IF UTILIZED. ALL DISTURBED AREAS MUST BE STABILIZED TEMPORARILY WITH THE USE OF FAST-GERMINATING ANNUAL GRASS/GRASS VARIETIES APPROPRIATE FOR SITE SOIL AND CLIMATE CONDITIONS. MULCH IS REQUIRED FOR ALL SEEDING APPLICATIONS, AND ALL MULCH APPLICATIONS MUST INCLUDE A SUITABLE TYPE OF MULCH ANCHORING TO MINIMIZE MOVEMENT OF MULCH BY WIND OR WATER. ALTERNATIVE STABILIZATION MEASURES TO SEEDING, SUCH AS ANCHORED MULCH APPLICATION (WITHOUT SEEDING), MAY BE UTILIZED DURING PERIODS WHEN VEGETATIVE GROWTH IS UNLIKELY (E.G. WINTER MONTHS). IT IS NOT ACCEPTABLE TO ALLOW BARE SOIL TO REMAIN EXPOSED AT ANY TIME DURING THE YEAR, REGARDLESS OF WEATHER/TEMPERATURE/SITE CONDITIONS. ALTERNATIVE STABILIZATION MEASURES INCLUDE, BUT ARE NOT LIMITED TO: ANCHORED STRAWHAY MULCH, WOOD CELLULOSE FIBER MULCH, SPRAY-ON SOIL GLUES/BINDERS, AND ROLLED EROSION CONTROL PRODUCTS. ALL ROLLED EROSION CONTROL PRODUCTS SHALL HAVE CURRENT (ODOTM) STATUS ISSUED BY THE EROSION CONTROL TECHNOLOGY COUNCIL (ECTC) PLUS ANY STATE OR AGENCY-SPECIFIC REQUIREMENTS. EVIDENCE OF (ODOTM) APPROVAL SHALL ACCOMPANY THE PRODUCT SHIPPED TO THE JOBSITE FOR READY IDENTIFICATION BY THE CONTRACTOR OR AGENCY INSPECTOR. ROLLED EROSION CONTROL PRODUCTS (NETS, BLANKETS, TURF REINFORCED MATS) AND VEGETATED AREAS REQUIRING REQUIRED VEGETATIVE DENSITIES FOR FINAL STABILIZATION MUST BE INSPECTED DAILY. RILING, RUTTING AND OTHER SIGNS OF EROSION INDICATE THE SPECIFIED EROSION CONTROL DEVICE IS NOT FUNCTIONING OR INSTALLED PROPERLY AND/OR ADDITIONAL EROSION CONTROL DEVICES ARE WARRANTED. 	<p>NOTES:</p> <ol style="list-style-type: none"> PERMANENT STABILIZATION SHALL BE ACCOMPLISHED IN ALL DISTURBED AREAS BY COVERING THE SOIL WITH PAVEMENT, BUILDING STRUCTURES, VEGETATION, OR OTHER FORMS OF SOIL STABILIZATION. THE GC IS REQUIRED TO INITIATE PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY UPON REACHING FINAL GRADE. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER, SUCH AS THE USE OF FAST-GERMINATING ANNUAL GRASS/GRASS VARIETIES, STRAWHAY, MULCH, WOOD CELLULOSE FIBERS, TACKIFIERS, NETTING AND/OR BLANKETS AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY. (PER NC GENERAL PERMIT - NCG 010000) ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER, SUCH AS THE USE OF FAST-GERMINATING ANNUAL GRASS/GRASS VARIETIES, STRAWHAY, MULCH, WOOD CELLULOSE FIBERS, TACKIFIERS, NETTING AND/OR BLANKETS AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY. (PER NC DEQ SECTION 6.01 OF PRACTICE STANDARDS AND SPECIFICATIONS) THE GC HAS 21 DAYS FROM INITIATION OF STABILIZATION TO COMPLETE SOIL PREPARATION, SEEDING, MULCHING, AND ANY OTHER REQUIRED ACTIVITIES RELATED TO THE PLANTING AND ESTABLISHMENT OF VEGETATION. THE GC ALSO HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETELY INSTALL NON-VEGETATED MEASURES, IF UTILIZED. ALL DISTURBED AREAS MUST BE STABILIZED TEMPORARILY WITH THE USE OF FAST-GERMINATING ANNUAL GRASS/GRASS VARIETIES APPROPRIATE FOR SITE SOIL AND CLIMATE CONDITIONS. MULCH IS REQUIRED FOR ALL SEEDING APPLICATIONS, AND ALL MULCH APPLICATIONS MUST INCLUDE A SUITABLE TYPE OF MULCH ANCHORING TO MINIMIZE MOVEMENT OF MULCH BY WIND OR WATER. ALTERNATIVE STABILIZATION MEASURES TO SEEDING, SUCH AS ANCHORED MULCH APPLICATION (WITHOUT SEEDING), MAY BE UTILIZED DURING PERIODS WHEN VEGETATIVE GROWTH IS UNLIKELY (E.G. WINTER MONTHS). 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<p>NOTES:</p> <ol style="list-style-type: none"> LARGE AREAS OF SOIL THAT ARE DENUDED OF VEGETATION AND HAVE NO PROTECTION FROM PARTICLES BEING PICKED UP AND CARRIED BY WIND SHOULD BE PROTECTED WITH A TEMPORARY COVER OR KEPT UNDER CONTROL WITH WATER OR OTHER SOIL ADHERING PRODUCTS TO PREVENT SOIL PARTICLES FROM BECOMING AIRBORNE, AND FROM EXITING THE SITE PERIMETER. WATER TRUCKS OR OTHER DUST CONTROL AGENTS SHALL BE USED AS NEEDED DURING CONSTRUCTION TO MINIMIZE DUST GENERATED ON THE SITE. TACKIFIERS MAY BE USED TO HOLD SOIL IN PLACE AND PREVENT DUST. MANUFACTURER RECOMMENDATIONS FOR APPLICATION LOCATIONS AND RATES MUST BE USED FOR DUST CONTROL. MULCH MAY BE PROVIDED BY THE GC TO A DEGREE THAT IS IN COMPLIANCE WITH APPLICABLE FEDERAL, LOCAL AND STATE DUST CONTROL REGULATIONS. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED. IN ADDITION TO BMPs, GC SHALL PERFORM PER PRACTICES AND PROCEDURES WHICH MINIMIZE AND PREVENT AIRBORNE DUST OR OTHER PARTICLES FROM OCCURRING. <p>DUST CONTROL</p>	<p>NOTES:</p> <ol style="list-style-type: none"> STORM DRAIN INLET PROTECTION MEASURES SHALL PREVENT SOIL AND DEBRIS FROM ENTERING STORM DRAIN INLETS. TEMPORARY CONTROLS SHALL BE CONSTRUCTED BEFORE THE SURROUNDING AREA IS DISTURBED. TO PREVENT CLOGGING, STORM DRAIN CONTROL STRUCTURES MUST BE MAINTAINED FREQUENTLY. CHECK ALL TEMPORARY CONTROL MEASURES DAILY, AND AFTER EACH STORM EVENT. CONTROL MEASURES MUST BE BUILT PER DETAIL AND PLANS, AND MUST BE IN GOOD WORKING CONDITION AT ALL TIMES. <p>INLET PROTECTION</p>	<p>NOTES:</p> <ol style="list-style-type: none"> THE GC HAS 21 DAYS FROM INITIATION OF STABILIZATION TO COMPLETE SOIL PREPARATION, SEEDING, MULCHING, AND ANY OTHER REQUIRED ACTIVITIES RELATED TO THE PLANTING AND ESTABLISHMENT OF VEGETATION. THE GC ALSO HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETELY INSTALL NON-VEGETATED MEASURES, IF UTILIZED. ALL DISTURBED AREAS MUST BE STABILIZED TEMPORARILY WITH THE USE OF FAST-GERMINATING ANNUAL GRASS/GRASS VARIETIES APPROPRIATE FOR SITE SOIL AND CLIMATE CONDITIONS. MULCH IS REQUIRED FOR ALL SEEDING APPLICATIONS, AND ALL MULCH APPLICATIONS MUST INCLUDE A SUITABLE TYPE OF MULCH ANCHORING TO MINIMIZE MOVEMENT OF MULCH BY WIND OR WATER. ALTERNATIVE STABILIZATION MEASURES TO SEEDING, SUCH AS ANCHORED MULCH APPLICATION (WITHOUT SEEDING), MAY BE UTILIZED DURING PERIODS WHEN VEGETATIVE GROWTH IS UNLIKELY (E.G. WINTER MONTHS). IT IS NOT ACCEPTABLE TO ALLOW BARE SOIL TO REMAIN EXPOSED AT ANY TIME DURING THE YEAR, REGARDLESS OF WEATHER/TEMPERATURE/SITE CONDITIONS. ALTERNATIVE STABILIZATION MEASURES INCLUDE, BUT ARE NOT LIMITED TO: ANCHORED STRAWHAY MULCH, WOOD CELLULOSE FIBER MULCH, SPRAY-ON SOIL GLUES/BINDERS, AND ROLLED EROSION CONTROL PRODUCTS. ALL ROLLED EROSION CONTROL PRODUCTS (NETS, BLANKETS, TURF REINFORCED MATS) AND VEGETATED AREAS REQUIRING REQUIRED VEGETATIVE DENSITIES FOR FINAL STABILIZATION MUST BE INSPECTED DAILY. RILING, RUTTING AND OTHER SIGNS OF EROSION INDICATE THE SPECIFIED EROSION CONTROL DEVICE IS NOT FUNCTIONING OR INSTALLED PROPERLY AND/OR ADDITIONAL EROSION CONTROL DEVICES ARE WARRANTED. 	<p>NOTES:</p> <ol style="list-style-type: none"> THE GC HAS 21 DAYS FROM INITIATION OF STABILIZATION TO COMPLETE SOIL PREPARATION, SEEDING, MULCHING, AND ANY OTHER REQUIRED ACTIVITIES RELATED TO THE PLANTING AND ESTABLISHMENT OF VEGETATION. THE GC ALSO HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETELY INSTALL NON-VEGETATED MEASURES, IF UTILIZED. ALL DISTURBED AREAS MUST BE STABILIZED TEMPORARILY WITH THE USE OF FAST-GERMINATING ANNUAL GRASS/GRASS VARIETIES APPROPRIATE FOR SITE SOIL AND CLIMATE CONDITIONS. MULCH IS REQUIRED FOR ALL SEEDING APPLICATIONS, AND ALL MULCH APPLICATIONS MUST INCLUDE A SUITABLE TYPE OF MULCH ANCHORING TO MINIMIZE MOVEMENT OF MULCH BY WIND OR WATER. ALTERNATIVE STABILIZATION MEASURES TO SEEDING, SUCH AS ANCHORED MULCH APPLICATION (WITHOUT SEEDING), MAY BE UTILIZED DURING PERIODS WHEN VEGETATIVE GROWTH IS UNLIKELY (E.G. WINTER MONTHS). IT IS NOT ACCEPTABLE TO ALLOW BARE SOIL TO REMAIN EXPOSED AT ANY TIME DURING THE YEAR, REGARDLESS OF WEATHER/TEMPERATURE/SITE CONDITIONS. ALTERNATIVE STABILIZATION MEASURES INCLUDE, BUT ARE NOT LIMITED TO: ANCHORED STRAWHAY MULCH, WOOD CELLULOSE FIBER MULCH, SPRAY-ON SOIL GLUES/BINDERS, AND ROLLED EROSION CONTROL PRODUCTS. ALL ROLLED EROSION CONTROL PRODUCTS (NETS, BLANKETS, TURF REINFORCED MATS) AND VEGETATED AREAS REQUIRING REQUIRED VEGETATIVE DENSITIES FOR FINAL STABILIZATION MUST BE INSPECTED DAILY. RILING, RUTTING AND OTHER SIGNS OF EROSION INDICATE THE SPECIFIED EROSION CONTROL DEVICE IS NOT FUNCTIONING OR INSTALLED PROPERLY AND/OR ADDITIONAL EROSION CONTROL DEVICES ARE WARRANTED.
<p>NOTES:</p> <ol style="list-style-type: none"> MATERIAL STORAGE AREAS SHOULD BE LOCATED, WHEN POSSIBLE, TO MINIMIZE EXPOSURE TO WEATHER. INTEGRATION SHOULD BE MADE TO DISTURBED AREAS AND AREAS USED FOR STORING MATERIALS THAT ARE EXPOSED TO THE ELEMENTS OR THE CONSTRUCTION PROCESS. MATERIALS SHOULD BE STORED IN CONTAINERS OR COVERED WITH A WATERPROOF CONTAINER. EXCEPT DURING APPLICATION, THE CONTAINERS AND THE CONTENTS MUST BE KEPT IN TRUCKS OR INSIDE OF STORAGE FACILITIES. RUNOFF CONTAINING SUCH MATERIAL MUST BE COLLECTED, REMOVED FROM THE SITE, TREATED, AND DISPOSED OF AT AN APPROVED SOLID WASTE AND CHEMICAL DISPOSAL FACILITY. <p>MATERIAL LAYDOWN AND STORAGE AREA</p>	<p>NOTES:</p> <ol style="list-style-type: none"> THE GC SHALL IDENTIFY MASON'S AREA WITH LEGIBLE SIGNAGE ON THE SITE, TO THE EXTENT PRACTICAL. ALL MASONRY TOOLS, MATERIAL, INCLUDING SAND AND SACKED CEMENT AND/OR MORTAR MATERIALS, MIX, AND EQUIPMENT SHALL BE LOCATED WITHIN THE AREA IDENTIFIED. MATERIALS VULNERABLE TO WEATHER ELEMENTS SHALL BE STORED IN CONTAINERS AT THE END OF EACH WORK DAY; SUCH MATERIALS SHALL REMAIN STORED IN CONTAINERS WHEN NOT IN USE. RUNOFF CONTROL, SUCH AS DIVERSION BERMS, SILT FENCE, SILT DIKE, OR OTHER MEANS OF CONTAINMENT SHALL BE PROVIDED TO PREVENT THE MIGRATION OF STORMWATER POLLUTANTS FROM THE MASON'S AREA. COVERED RECEPTEACES FOR DEBRIS AND TRASH DISPOSAL SHALL ALSO BE PROVIDED. THE MASON'S AREA SHALL MEET OSHA AND OTHER REGULATORY REQUIREMENTS FOR PERSONAL PROTECTIVE EQUIPMENT (PPE). FIRE EXTINGUISHERS, ETC. GC SHALL PROVIDE SCREENING OR OTHER TECHNOLOGIES FOR MASON'S AREA TO PREVENT AIRBORNE TRANSPORT OF CEMENT DUST AND OTHER PARTICULATES DUE TO HIGH SPEED WIND OR OTHER CONDITIONS. THE LOCATION OF THE MASON'S AREA SHALL BE SHOWN ON THE SITE MAPS. <p>MASON'S AREA</p>	<p>NOTES:</p> <ol style="list-style-type: none"> THE GC HAS 21 DAYS FROM INITIATION OF STABILIZATION TO COMPLETE SOIL PREPARATION, SEEDING, MULCHING, AND ANY OTHER REQUIRED ACTIVITIES RELATED TO THE PLANTING AND ESTABLISHMENT OF VEGETATION. THE GC ALSO HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETELY INSTALL NON-VEGETATED MEASURES, IF UTILIZED. ALL DISTURBED AREAS MUST BE STABILIZED TEMPORARILY WITH THE USE OF FAST-GERMINATING ANNUAL GRASS/GRASS VARIETIES APPROPRIATE FOR SITE SOIL AND CLIMATE CONDITIONS. MULCH IS REQUIRED FOR ALL SEEDING APPLICATIONS, AND ALL MULCH APPLICATIONS MUST INCLUDE A SUITABLE TYPE OF MULCH ANCHORING TO MINIMIZE MOVEMENT OF MULCH BY WIND OR WATER. ALTERNATIVE STABILIZATION MEASURES TO SEEDING, SUCH AS ANCHORED MULCH APPLICATION (WITHOUT SEEDING), MAY BE UTILIZED DURING PERIODS WHEN VEGETATIVE GROWTH IS UNLIKELY (E.G. WINTER MONTHS). IT IS NOT ACCEPTABLE TO ALLOW BARE SOIL TO REMAIN EXPOSED AT ANY TIME DURING THE YEAR, REGARDLESS OF WEATHER/TEMPERATURE/SITE CONDITIONS. ALTERNATIVE STABILIZATION MEASURES INCLUDE, BUT ARE NOT LIMITED TO: ANCHORED STRAWHAY MULCH, WOOD CELLULOSE FIBER MULCH, SPRAY-ON SOIL GLUES/BINDERS, AND ROLLED EROSION CONTROL PRODUCTS. ALL ROLLED EROSION CONTROL PRODUCTS (NETS, BLANKETS, TURF REINFORCED MATS) AND VEGETATED AREAS REQUIRING REQUIRED VEGETATIVE DENSITIES FOR FINAL STABILIZATION MUST BE INSPECTED DAILY. RILING, RUTTING AND OTHER SIGNS OF EROSION INDICATE THE SPECIFIED EROSION CONTROL DEVICE IS NOT FUNCTIONING OR INSTALLED PROPERLY AND/OR ADDITIONAL EROSION CONTROL DEVICES ARE WARRANTED. 	<p>NOTES:</p> <ol style="list-style-type: none"> THE GC HAS 21 DAYS FROM INITIATION OF STABILIZATION TO COMPLETE SOIL PREPARATION, SEEDING, MULCHING, AND ANY OTHER REQUIRED ACTIVITIES RELATED TO THE PLANTING AND ESTABLISHMENT OF VEGETATION. THE GC ALSO HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETELY INSTALL NON-VEGETATED MEASURES, IF UTILIZED. ALL DISTURBED AREAS MUST BE STABILIZED TEMPORARILY WITH THE USE OF FAST-GERMINATING ANNUAL GRASS/GRASS VARIETIES APPROPRIATE FOR SITE SOIL AND CLIMATE CONDITIONS. MULCH IS REQUIRED FOR ALL SEEDING APPLICATIONS, AND ALL MULCH APPLICATIONS MUST INCLUDE A SUITABLE TYPE OF MULCH ANCHORING TO MINIMIZE MOVEMENT OF MULCH BY WIND OR WATER. ALTERNATIVE STABILIZATION MEASURES TO SEEDING, SUCH AS ANCHORED MULCH APPLICATION (WITHOUT SEEDING), MAY BE UTILIZED DURING PERIODS WHEN VEGETATIVE GROWTH IS UNLIKELY (E.G. WINTER MONTHS). IT IS NOT ACCEPTABLE TO ALLOW BARE SOIL TO REMAIN EXPOSED AT ANY TIME DURING THE YEAR, REGARDLESS OF WEATHER/TEMPERATURE/SITE CONDITIONS. ALTERNATIVE STABILIZATION MEASURES INCLUDE, BUT ARE NOT LIMITED TO: ANCHORED STRAWHAY MULCH, WOOD CELLULOSE FIBER MULCH, SPRAY-ON SOIL GLUES/BINDERS, AND ROLLED EROSION CONTROL PRODUCTS. ALL ROLLED EROSION CONTROL PRODUCTS (NETS, BLANKETS, TURF REINFORCED MATS) AND VEGETATED AREAS REQUIRING REQUIRED VEGETATIVE DENSITIES FOR FINAL STABILIZATION MUST BE INSPECTED DAILY. RILING, RUTTING AND OTHER SIGNS OF EROSION INDICATE THE SPECIFIED EROSION CONTROL DEVICE IS NOT FUNCTIONING OR INSTALLED PROPERLY AND/OR ADDITIONAL EROSION CONTROL DEVICES ARE WARRANTED.
<p>NOTES:</p> <ol style="list-style-type: none"> CONCRETE WASTE MANAGEMENT PERTAINS TO WASTE FROM CONCRETE READY-MIX TRUCKS, MASONRY OPERATIONS, AND SIMILAR WASTE. DISCHARGE OF EXCESS OR WASTE CONCRETE AND/OR WASH WATER FROM CONCRETE TRUCKS IS ALLOWED AT THE CONSTRUCTION SITE. ONLY COMMERCIALLY AVAILABLE ABOVE GROUND PORTABLE CONCRETE WASHOUT CONTAINERS ARE ALLOWED AND MUST BE PROTECTED FROM VEHICLE TRAFFIC AND CLEARLY IDENTIFIED BY LEGIBLE SIGNAGE, AND MUST BE LOCATED OUTSIDE OF VEGETATED BUFFERS AND AS FAR AS PRACTICABLE FROM STORMWATER CONVEYANCES AND IMPOUNDMENTS AND WATER BODIES. CONCRETE WASHOUT CONTAINERS MUST BE PROTECTED FROM THE ELEMENTS AND EXCHANGED WHEN THE REMAINING VOLUME IS REDUCED BY 85% TO PREVENT ANY POTENTIAL OVERFLOW IN A STORM EVENT. ALTERNATIVELY, WASTE CONCRETE CAN BE PLACED INTO FORMS TO MAKE RIP RAP AND/OR OTHER USEFUL CONCRETE PRODUCTS. PORTABLE CONCRETE WASHOUT CONTAINERS SHALL BE DISPOSED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS. THE GC IS RESPONSIBLE FOR ASSURING THAT THESE PROCEDURES, APPLICABLE LAWS, AND ENVIRONMENTAL REGULATIONS ARE FOLLOWED. THE LOCATION OF CONCRETE WASHOUT CONTAINERS SHALL BE SHOWN ON THE SITE MAPS. <p>CEMENT AND CONCRETE WASHOUT</p>	<p>NOTES:</p> <ol style="list-style-type: none"> VERIFY WITH ENGINEER AND AUTHORITY HAVING JURISDICTION WHICH DISCHARGES FROM DEWATERING ACTIVITIES ARE ALLOWED OR ARE NOT ALLOWED NON-STORMWATER DISCHARGES UNDER THE GENERAL PERMIT AND OTHER REGULATIONS. OBTAIN ALL DEWATERING PERMITS AND AUTHORIZATIONS REQUIRED BY STATE AND LOCAL REGULATIONS. GC MUST WAIT TO HAVE WRITTEN COPY OF ALL REQUIRED DEWATERING PERMITS AND AUTHORIZATIONS BEFORE PERFORMING DEWATERING ACTIVITIES. DISCHARGES FROM DEWATERING OPERATIONS MUST BE DIRECTED THROUGH AN APPROPRIATE POLLUTION PREVENTION/TREATMENT SYSTEM OF CONTROL MEASURES, SUCH AS A SEDIMENT/FILTER BAG, SEDIMENT TRAP, OR SEDIMENT BAG, OR OTHER EQUIPMENT, PROVIDED TO PROTECT THE SURFACE OF THE SITE OR INTO A WATER BODY OF THE SITE. UNDER NO CIRCUMSTANCES ARE DISCHARGES FROM DEWATERING OPERATIONS TO BE DISCHARGED DIRECTLY INTO SANITARY SEWER SYSTEMS, STREAMS, RIVERS, LAKES OR OTHER AREAS BEYOND THE PERMITTED PROJECT AREA. LIKEWISE, DISCHARGES INTO STORM SEWER SYSTEMS THAT DO NOT DRAIN TO A SUITABLE ON-SITE TREATMENT FACILITY, SUCH AS A BASIN, ARE ALSO PROHIBITED. DISCHARGES FROM DEWATERING OPERATIONS MUST ALSO BE CONDUCTED IN A MANNER SUFFICIENT TO PREVENT EROSION FROM THE DISCHARGE RUNOFF. IN SEDIMENT RIP OR BASIN OR POND DEWATERING OPERATIONS, WATER MUST ONLY BE REMOVED FROM THE SURFACE OF THE CONTAINED WATER. A SKIMMER OR SIMILAR FLOATING DEVICE MUST BE USED, TO ONLY REMOVE THE WATER AT THE SURFACE. DO NOT DISCHARGE ON A SLOPE GREATER THAN THREE PERCENT NOR WITHIN 20 FEET OF A SURFACE WATER BODY. DEWATERING SHALL NOT OCCUR DURING OR IMMEDIATELY AFTER PRECIPITATION EVENTS, BUT EXCEPTIONS SHALL BE EVALUATED ON CASE BY CASE BASIS. CONTACT THE ENGINEER AND AUTHORITY HAVING JURISDICTION <p>DEWATERING</p>	<p>NOTES:</p> <ol style="list-style-type: none"> THE GC HAS 21 DAYS FROM INITIATION OF STABILIZATION TO COMPLETE SOIL PREPARATION, SEEDING, MULCHING, AND ANY OTHER REQUIRED ACTIVITIES RELATED TO THE PLANTING AND ESTABLISHMENT OF VEGETATION. THE GC ALSO HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETELY INSTALL NON-VEGETATED MEASURES, IF UTILIZED. ALL DISTURBED AREAS MUST BE STABILIZED TEMPORARILY WITH THE USE OF FAST-GERMINATING ANNUAL GRASS/GRASS VARIETIES APPROPRIATE FOR SITE SOIL AND CLIMATE CONDITIONS. MULCH IS REQUIRED FOR ALL SEEDING APPLICATIONS, AND ALL MULCH APPLICATIONS MUST INCLUDE A SUITABLE TYPE OF MULCH ANCHORING TO MINIMIZE MOVEMENT OF MULCH BY WIND OR WATER. ALTERNATIVE STABILIZATION MEASURES TO SEEDING, SUCH AS ANCHORED MULCH APPLICATION (WITHOUT SEEDING), MAY BE UTILIZED DURING PERIODS WHEN VEGETATIVE GROWTH IS UNLIKELY (E.G. WINTER MONTHS). IT IS NOT ACCEPTABLE TO ALLOW BARE SOIL TO REMAIN EXPOSED AT ANY TIME DURING THE YEAR, REGARDLESS OF WEATHER/TEMPERATURE/SITE CONDITIONS. ALTERNATIVE STABILIZATION MEASURES INCLUDE, BUT ARE NOT LIMITED TO: ANCHORED STRAWHAY MULCH, WOOD CELLULOSE FIBER MULCH, SPRAY-ON SOIL GLUES/BINDERS, AND ROLLED EROSION CONTROL PRODUCTS. ALL ROLLED EROSION CONTROL PRODUCTS (NETS, BLANKETS, TURF REINFORCED MATS) AND VEGETATED AREAS REQUIRING REQUIRED VEGETATIVE DENSITIES FOR FINAL STABILIZATION MUST BE INSPECTED DAILY. RILING, RUTTING AND OTHER SIGNS OF EROSION INDICATE THE SPECIFIED EROSION CONTROL DEVICE IS NOT FUNCTIONING OR INSTALLED PROPERLY AND/OR ADDITIONAL EROSION CONTROL DEVICES ARE WARRANTED. 	<p>NOTES:</p> <ol style="list-style-type: none"> THE GC HAS 21 DAYS FROM INITIATION OF STABILIZATION TO COMPLETE SOIL PREPARATION, SEEDING, MULCHING, AND ANY OTHER REQUIRED ACTIVITIES RELATED TO THE PLANTING AND ESTABLISHMENT OF VEGETATION. THE GC ALSO HAS 7 DAYS FROM INITIATION OF STABILIZATION TO COMPLETELY INSTALL NON-VEGETATED MEASURES, IF UTILIZED. ALL DISTURBED AREAS MUST BE STABILIZED TEMPORARILY WITH THE USE OF FAST-GERMINATING ANNUAL GRASS/GRASS VARIETIES APPROPRIATE FOR SITE SOIL AND CLIMATE CONDITIONS. MULCH IS REQUIRED FOR ALL SEEDING APPLICATIONS, AND ALL MULCH APPLICATIONS MUST INCLUDE A SUITABLE TYPE OF MULCH ANCHORING TO MINIMIZE MOVEMENT OF MULCH BY WIND OR WATER. ALTERNATIVE STABILIZATION MEASURES TO SEEDING, SUCH AS ANCHORED MULCH APPLICATION (WITHOUT SEEDING), MAY BE UTILIZED DURING PERIODS WHEN VEGETATIVE GROWTH IS UNLIKELY (E.G. WINTER MONTHS). IT IS NOT ACCEPTABLE TO ALLOW BARE SOIL TO REMAIN EXPOSED AT ANY TIME DURING THE YEAR, REGARDLESS OF WEATHER/TEMPERATURE/SITE CONDITIONS. ALTERNATIVE STABILIZATION MEASURES INCLUDE, BUT ARE NOT LIMITED TO: ANCHORED STRAWHAY MULCH, WOOD CELLULOSE FIBER MULCH, SPRAY-ON SOIL GLUES/BINDERS, AND ROLLED EROSION CONTROL PRODUCTS. ALL ROLLED EROSION CONTROL PRODUCTS (NETS, BLANKETS, TURF REINFORCED MATS) AND VEGETATED AREAS REQUIRING REQUIRED VEGETATIVE DENSITIES FOR FINAL STABILIZATION MUST BE INSPECTED DAILY. RILING, RUTTING AND OTHER SIGNS OF EROSION INDICATE THE SPECIFIED EROSION CONTROL DEVICE IS NOT FUNCTIONING OR INSTALLED PROPERLY AND/OR ADDITIONAL EROSION CONTROL DEVICES ARE WARRANTED.
<p>NOTES:</p> <ol style="list-style-type: none"> CONSIDERATION MUST BE GIVEN TO ANTICIPATED CLIMATE AND SEASONAL CONDITIONS WHEN PLANTING SEED. SEED SHALL BE FREE OF WEEDY SPECIES AND APPROPRIATE FOR SITE SOILS AND REGIONAL CLIMATE.			



INSTRUCTIONS FOR
SILT FENCE OUTLET

INSTALLATION

- REFER TO THE PLANS FOR LOCATIONS AND SPECIFICATIONS. DURING INSTALLATION OF THE SILT BARRIER OR SILT FENCE, INSPECT THE INSTALLATION TO DETERMINE IF OUTLETS ARE NEEDED ACCORDING TO THE PLANS. IF OUTLETS ARE NEEDED, DETERMINE THE LOCATION, EXTENT, OR METHOD OF INSTALLATION. CONTACT THE ENGINEER, ARCHITECT, OR DESIGNER FOR ASSISTANCE. EROSION CONTROL PERSONNEL HAVE COPIES OF INSTRUCTIONS AND MAY HAVE PHOTOGRAPHS OF PROPERLY INSTALLED OUTLETS AS AN AID TO INSTALLATION.
- IF THE SILT FENCE OUTLET IS NOT INSTALLED CORRECTLY THE FIRST TIME, IT WILL HAVE TO BE REBUILT.
- DETERMINE THE EXACT LOCATION OF THE OUTLET BEFORE COMPLETING THE INSTALLATION OF THE SILT BARRIER OR SILT FENCE, TAKING INTO CONSIDERATION:

 - INSTALL THE OUTLET AT THE LOWEST POINT(S) IN THE BARRIER OR FENCE WHERE WATER WILL FLOW.
 - INSTALL THE OUTLET WHERE IT IS ACCESSIBLE FOR INSTALLATION, MAINTENANCE, AND REMOVAL.
 - ALLOW AT LEAST:

 - 15 FEET BETWEEN THE BARRIER OR FENCE AND SINGLE-STORY BUILDINGS.
 - 25 FEET FOR FORK LIFTS BETWEEN THE BARRIER OR FENCE AND MULTIPLE-STORY BUILDINGS.
 - 10 FEET BETWEEN THE BARRIER OR FENCE AND THE TOE OF FILL SLOPES.

 - PLACE THE OUTLET SO THAT WATER FLOWING THROUGH IT WILL NOT CAUSE AN EROSION HAZARD BELOW: AVOID STEEP SLOPES BELOW THE OUTLET. USE AREA WITHOUT PROTECTIVE VEGETATION. USE SLOPE DRAINS IF NECESSARY.
 - DETERMINE THE LOCATION OF THE OUTLET: FOR A SILT BARRIER, WHEN THE TRENCH IS DUG TO BURY THE BOTTOM OF THE FABRIC BECAUSE THE BARRIER WILL BE OMITTED AT THE OUTLET; FOR A SILT FENCE, WHEN THE WIRE FENCE IS IN PLACE BECAUSE THE FILTER FABRIC WILL BE OMITTED AT THE OUTLET.

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR
AND OWNER MUST BE ADVISED OF ANY
DISCREPANCIES BEFORE PROCEEDING WITH WORK

TARHEEL LODGING REDEVELOPMENT PHASE 2

1142 FORDHAM BLVD.

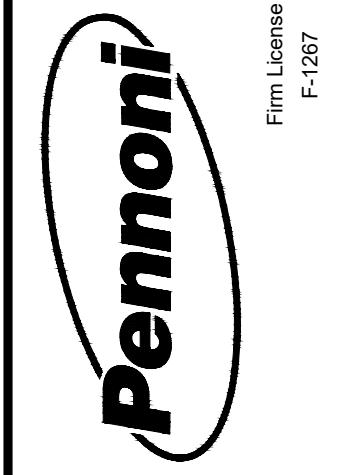
CHAPEL HILL, NC

EROSION AND SEDIMENTATION DETAILS

TARHEEL LODGING, LLC & UNICORN GROUP FIFTEEN, LLC

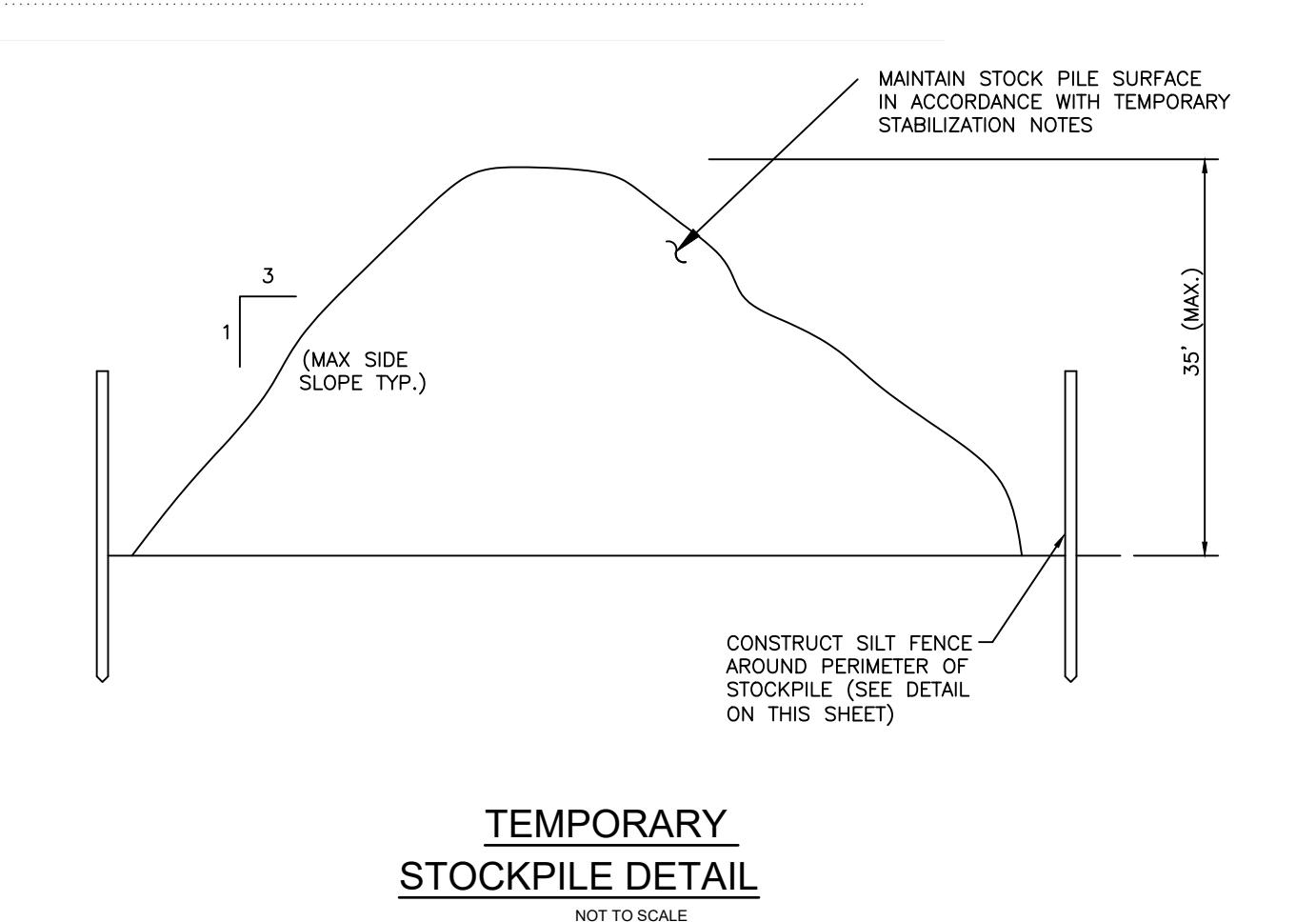
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INSTRUCTIONS FOR
SILT FENCE OUTLET

INSTALLATION

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- IF THE SILT FENCE OUTLET IS NOT INSTALLED CORRECTLY THE FIRST TIME, IT WILL HAVE TO BE REBUILT.
- DETERMINE THE EXACT LOCATION OF THE OUTLET: FOR A SILT BARRIER, WHEN THE TRENCH IS DUG TO BURY THE BOTTOM OF THE FABRIC BECAUSE THE BARRIER WILL BE OMITTED AT THE OUTLET; FOR A SILT FENCE, WHEN THE WIRE FENCE IS IN PLACE BECAUSE THE FILTER FABRIC WILL BE OMITTED AT THE OUTLET.
- REFERR TO THE ILLUSTRATIONS OF THE OUTLET IN THE PLAN.
- CLEAR STUMPS AND ROOTS FROM THE LOCATION OF THE OUTLET. CLEAR ADEQUATE ACCESS FOR THE EQUIPMENT NEEDED FOR INSTALLATION, MAINTENANCE, AND REMOVAL.
- FOR A SILT BARRIER:

 - JUST BELOW THE GAP IN THE BARRIER, PLACE A LAYER OF FILTER FABRIC ON THE GROUND TO PROTECT THE SOIL FROM EROSION DUE TO GROUND WATER. PLACE 6 INCHES OF THE BOTTOM OF THE UPPER EDGE IN THE TRENCH. STAKE THE REMAINING EDGES OF THE FABRIC TO HOLD IT IN PLACE.
 - ALONG THE GAP WHERE THE OUTLET WILL GO, PLACE STEEL FENCE POSTS SO THAT THEY WILL BE A MAXIMUM OF 2 FEET APART AND DRIVEN INTO SOLID GROUND AT LEAST 18 INCHES.
 - PLACE HARDWARE CLOTH (WELDED GALVANIZED SCREEN WITH SQUARE 1/4 - 1/2-INCH HOLES) ON THE UPHILL SIDE OF THE POSTS TO HOLD THE WASHED STONE IN PLACE. PUT 6 INCHES OF THE BOTTOM OF THE CLOTH IN THE TRENCH AND FASTEN IT TO THE POSTS WITH LENGTHS OF WIRE.
 - BURY THE BOTTOM OF THE HARDWARE CLOTH AND THE UPPER EDGE OF THE FILTER FABRIC BELOW THE OUTLET, AND THE WIRE FENCE IN THE TRENCH.
 - PLACE A FILTER OF 1-INCH DIAMETER WASHED STONE ON THE UPHILL SIDE OF THE OUTLET. FILE THE STONE UP TO THE TOP OF THE HARDWARE CLOTH AND OVER THE JOINT BETWEEN THE OUTLET AND THE SILT FENCE.

- FOR A SILT FENCE:

 - JUST BELOW THE GAP IN THE FENCE, PLACE A LAYER OF FILTER FABRIC ON THE GROUND TO PROTECT THE SOIL FROM EROSION DUE TO GROUND WATER. PLACE 6 INCHES OF THE BOTTOM OF THE UPPER EDGE IN THE TRENCH. STAKE THE OTHER EDGES OF THE FABRIC TO HOLD IT IN PLACE.
 - ALONG THE GAP WHERE THE OUTLET WILL GO, PLACE ADDITIONAL STEEL FENCE POSTS FOR STRENGTH. THE POSTS MUST BE A MAXIMUM OF 2 FEET APART AND DRIVEN INTO SOLID GROUND AT LEAST 18 INCHES.
 - PLACE HARDWARE CLOTH (WELDED GALVANIZED SCREEN WITH SQUARE 1/4 - 1/2-INCH HOLES) ON THE UPHILL SIDE OF THE POSTS TO HOLD THE WASHED STONE IN PLACE. PUT 6 INCHES OF THE BOTTOM OF THE CLOTH IN THE TRENCH AND FASTEN IT TO THE POSTS WITH LENGTHS OF WIRE.
 - BURY THE BOTTOM OF THE HARDWARE CLOTH, THE UPPER EDGE OF THE FILTER FABRIC BELOW THE OUTLET, AND THE WIRE FENCE IN THE TRENCH.
 - PLACE A FILTER OF 1-INCH DIAMETER WASHED STONE ON THE UPHILL SIDE OF THE OUTLET. FILE THE STONE UP TO THE TOP OF THE HARDWARE CLOTH AND OVER THE JOINT BETWEEN THE OUTLET AND THE SILT FENCE.

MATERIALS, EQUIPMENT, AND PERSONNEL MUST BE AVAILABLE FOR MAINTENANCE AT ALL TIME.

- INSPECT THE SILT FENCE OUTLET:

 - DURING CONSTRUCTION: TO DETERMINE IF MACHINERY, FALLING TREES, ETC. HAVE DAMAGED THE BARRIER, FENCE, OR OUTLET; IF DAMAGED, MAKE REPAIRS TO SEE THAT FILL MATERIAL IS NOT ACCUMULATED ON THE OUTLET. IF THE FENCE IS DAMAGED, REPAIR THE FENCE, OR IF THE MATERIAL, REPAIR THE DAMAGE, AND MOVE THE FENCE OR FILL SO THAT IT DOES NOT HAPPEN AGAIN.
 - AFTER EACH RAINFALL: TO DETERMINE IF RUNOFF FLOWING THROUGH THE OUTLET HAS CAUSED DAMAGE BY UNDERRUNNING THE FENCE OR OUTLET, OR IF ACCUMULATED SEDIMENT IS CLOGGING THE OUTLET. IF SO, MAKE REPAIRS OR INSTALL A SEDIMENT TRAP IF NECESSARY TO PREVENT FUTURE FAILURES.

- CLEAN OUT ACCUMULATED SEDIMENT WHEN IT REACHES A DEPTH OF ONE-HALF THE HEIGHT OF THE OUTLET. PLACE THE SEDIMENT IN A DISPOSAL AREA, OR MIX IT IN WITH DRY SOIL ON THE SITE IF APPROPRIATE. DO NOT DISPOSE OF SEDIMENT IN A MANNER THAT WILL CREATE AN EROSION HAZARD.
- WHEN THE STONE FILTER BECOMES CLOGGED, PREVENTING FLOW THROUGH THE FILTER, REMOVE THE CONTAMINATED STONE, DISPOSE OF IT PROPERLY, AND REPLACE IT WITH CLEAN WASHED STONE.
- REPAIR THE OUTLET IF DAMAGED BY USE OR DURING MAINTENANCE. REBUILD IT TO THE ORIGINAL CONFIGURATION.

REMOVAL

- WHEN GRADING IN THE DRAINAGE AREA ABOVE THE OUTLET HAS BEEN COMPLETED AND THE DISTURBED AREA SUFFICIENTLY STABILIZED TO RESTRAIN EROSION, THE OUTLET MUST BE REMOVED.
- CLEAN OUT ACCUMULATED SEDIMENT AND DISPOSE OF IT PROPERLY.
- REMOVE POSTS, FENCE, FABRIC, WIRE, AND WASHED STONE; DISPOSE OF THEM PROPERLY.
- GRADE THE LOCATION AS NECESSARY.
- STABILIZE THE DISTURBED AREA WHERE THE OUTLET WAS LOCATED.

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DRAWING SCALE: N.T.S.
DRAWN BY: CJJ
APPROVED BY: ESM

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