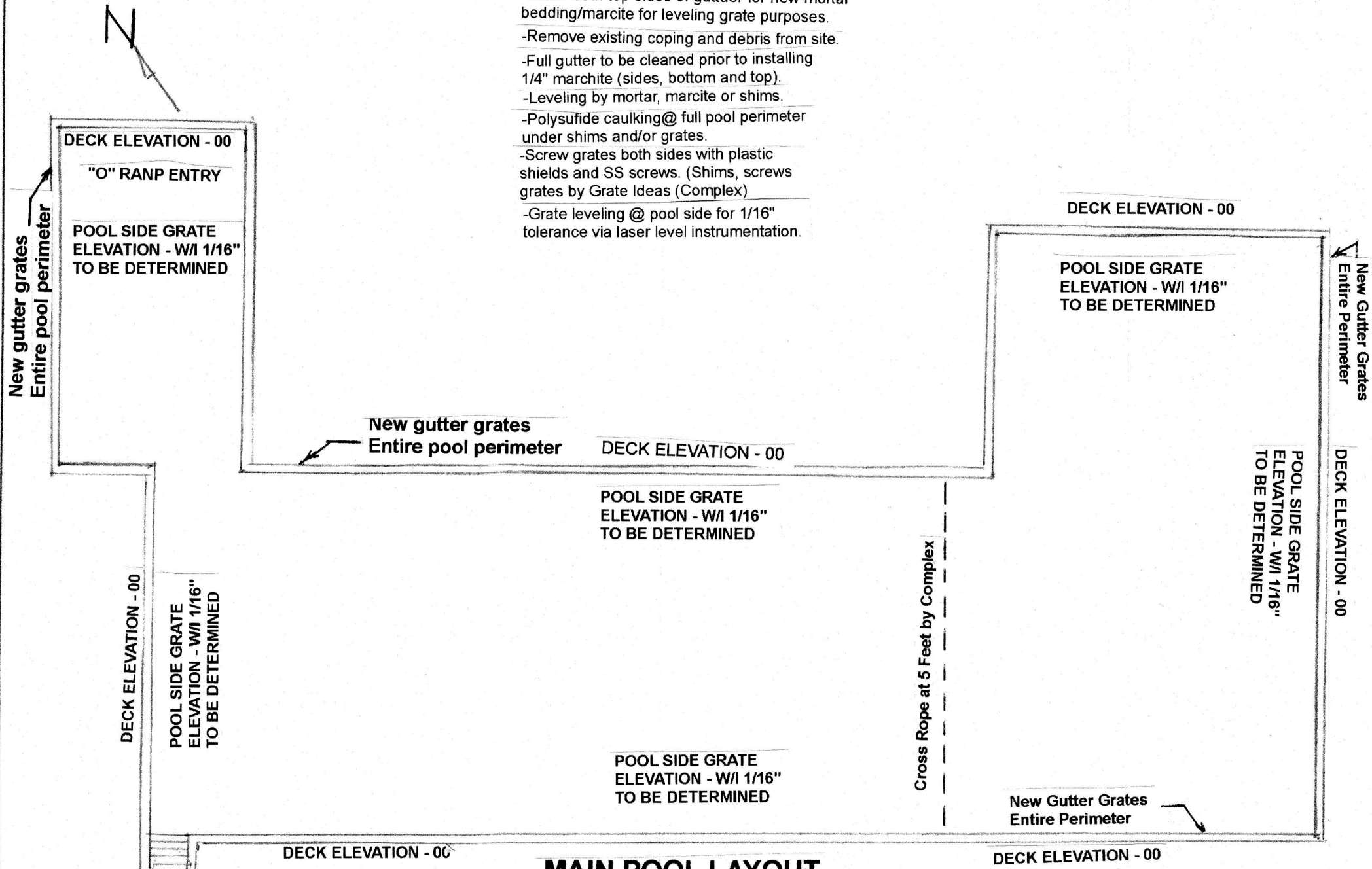
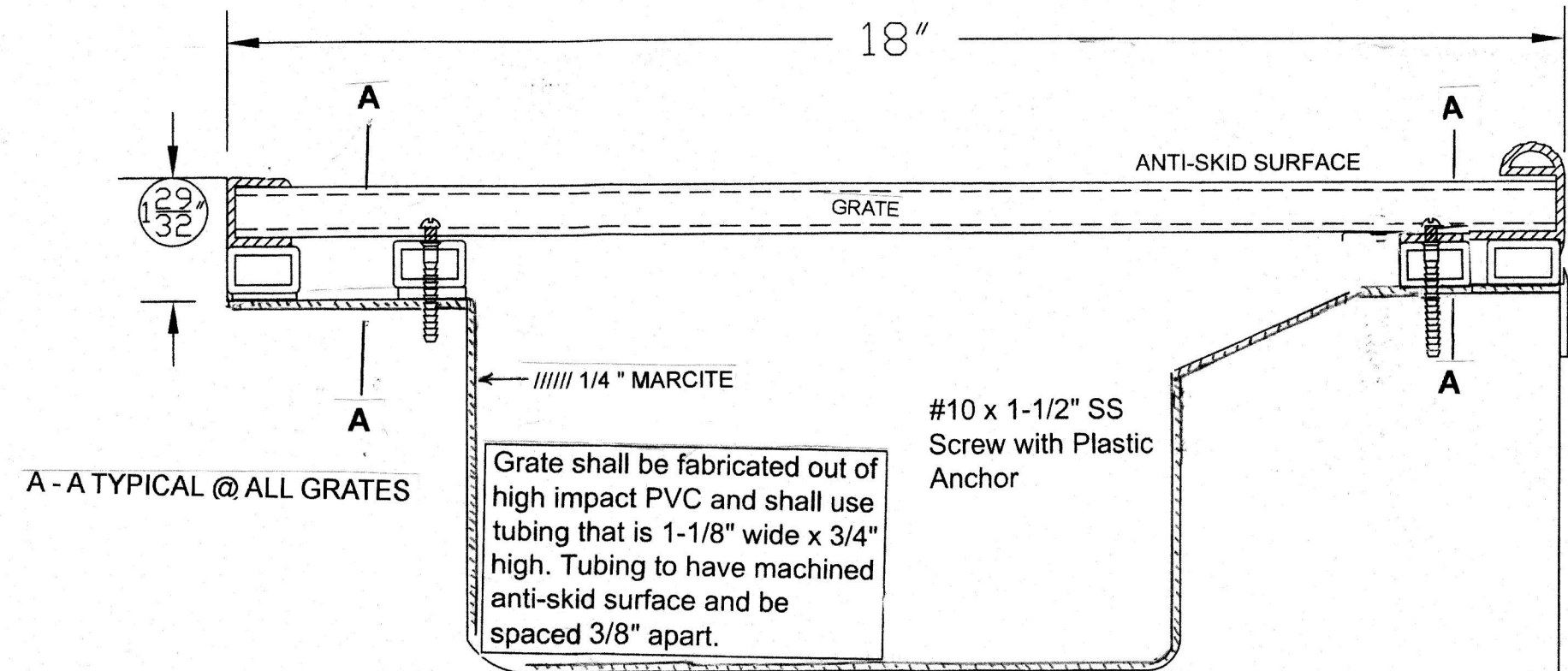


Pool side pool bottom of ramp concrete will require cut out to match elevation w/o grab to elevations with grab.



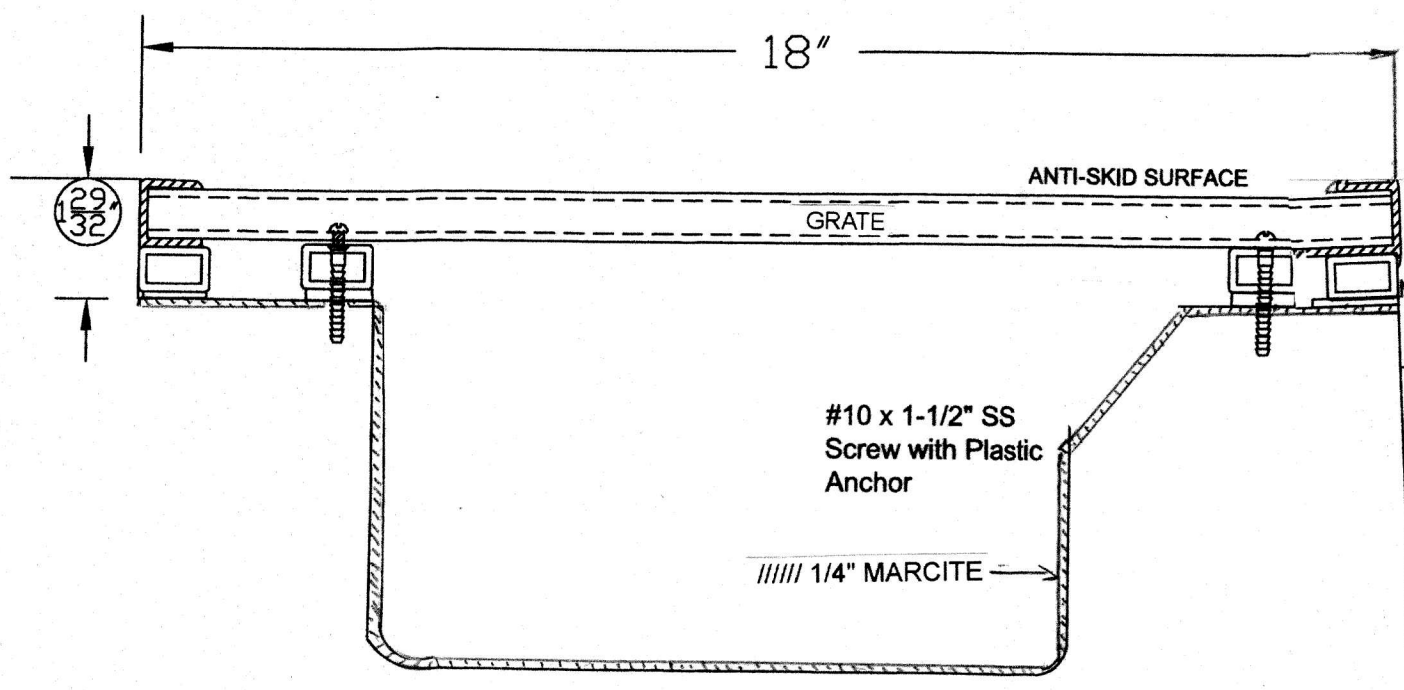
MAIN POOL LAYOUT

SCALE - 1/6" = 12"



GRATE @ GUTTER PERIMETER

NTS



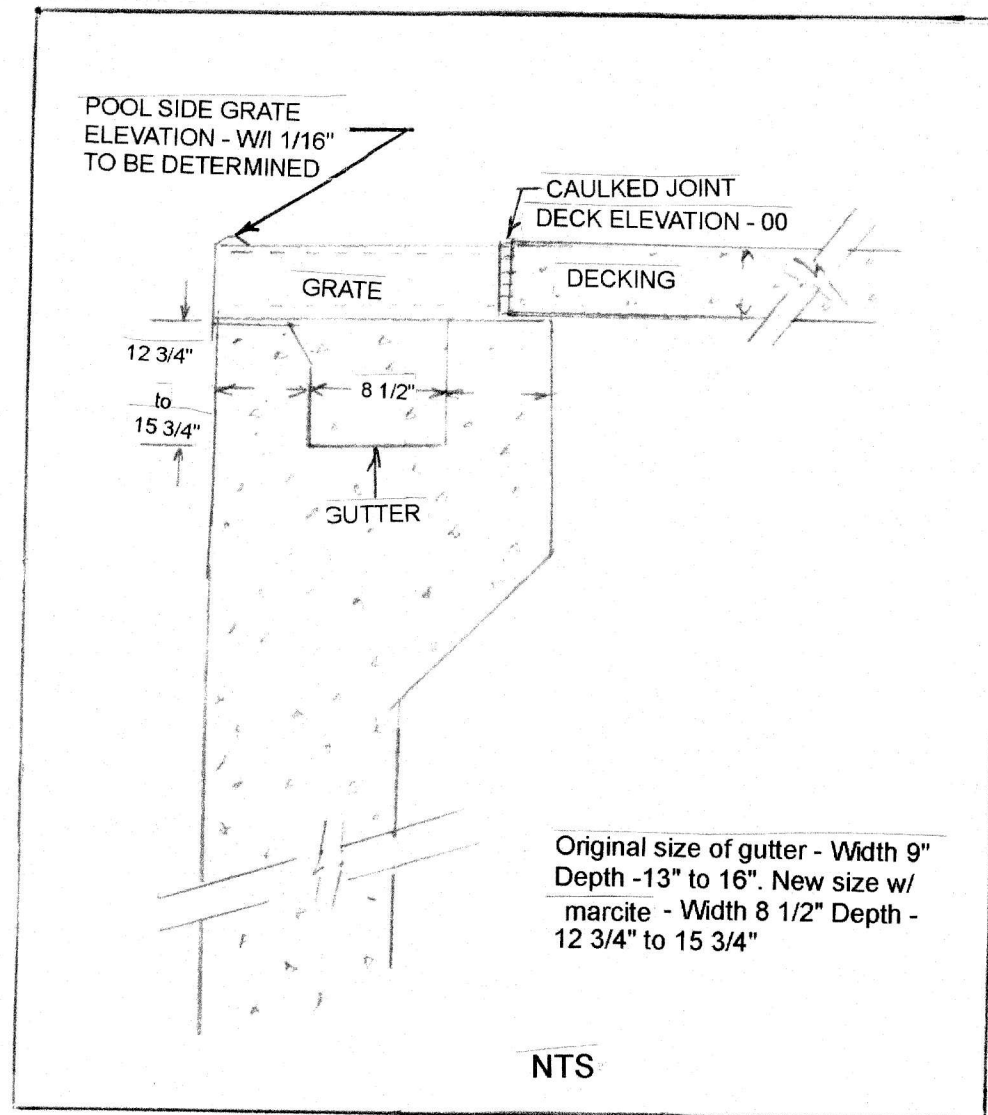
GRATE @ "O" ENTRY RAMP

NTS

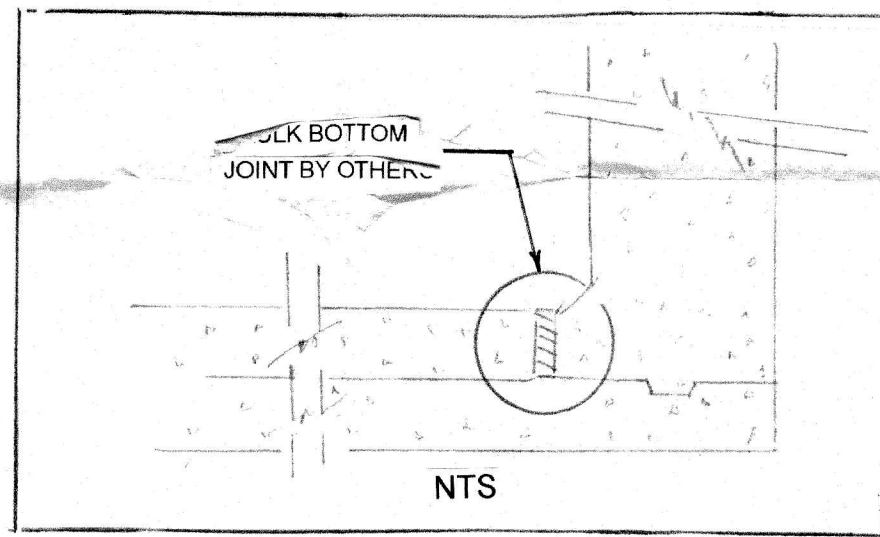
ALL POOL DEPTHS ON DECK & POOL PERIMETER TO BE VERIFIED AND CORRECTED TO 1/2" OF WATER LINE EVERY 25'. NO DIVING SIGNS ON DECK ONLY EVERY 25'

GUTTER RENOVATION & GRATE INSTALLATION

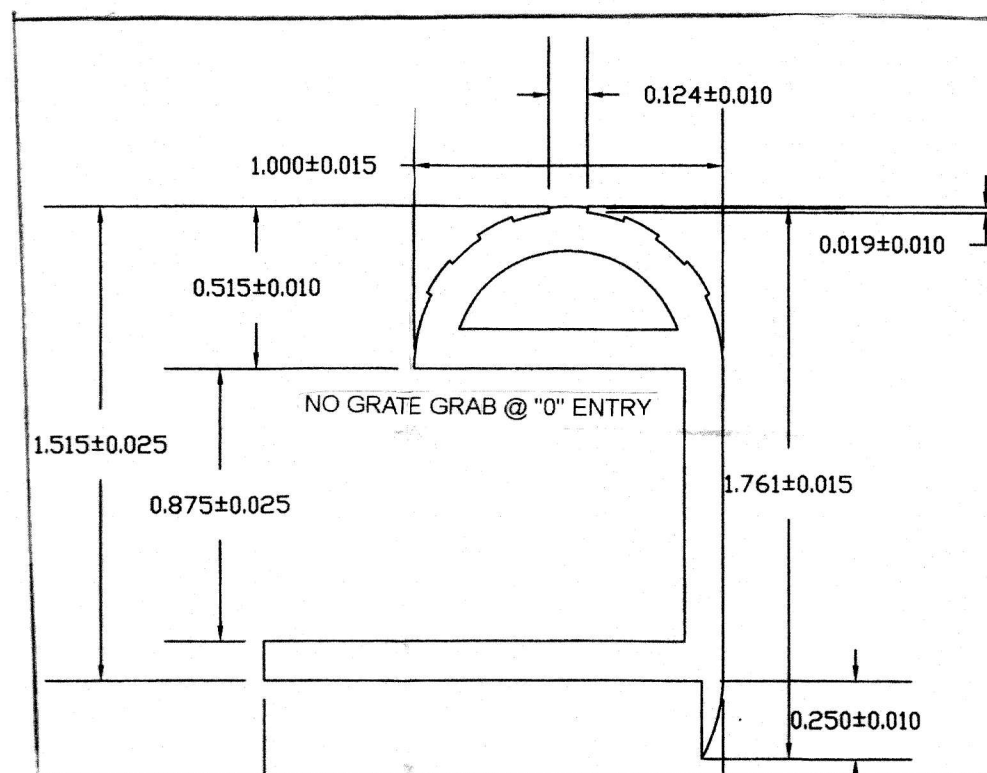
- Remove existing precast coping with all mortar bedding.
- Clean both top sides of gutter for new mortar bedding/marcite for leveling grate purposes.
- Remove existing coping and debris from site.
- Full gutter to be cleaned prior to installing 1/4" marcite (sides, bottom and top).
- Leveling by mortar, marcite or shims.
- Polysulfide caulking @ full pool perimeter under shims and/or grates.
- Screw grates both sides with plastic shields and SS screws. (Shims, screws grates by Grate Ideas (Complex).
- Grate leveling @ pool side for 1/16" tolerance via laser level instrumentation.



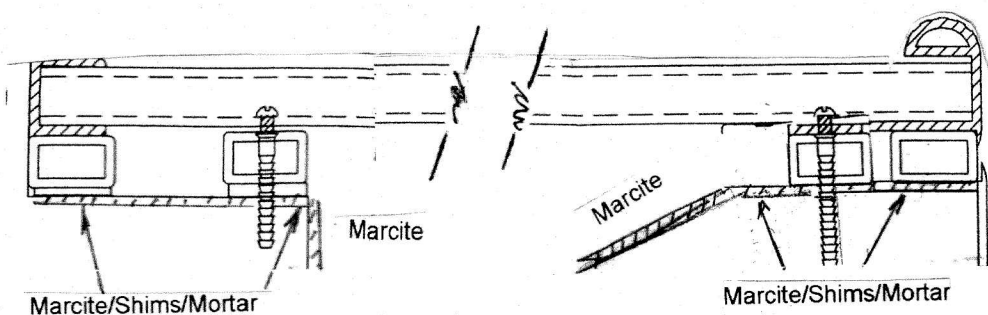
POOL SHELL GUTTER/GRATE DETAIL



PERIMETER & CROSS CAULKING JOINT



POOL SIDE GRATE GRAB DETAIL



SECTION A-A

NTS

GENERAL NOTES - Main Pool Gutter Grate Replacement

1. No work shall commence until all permits have been issued.
2. All construction of the work shall comply with Codes, Rules and Regulations of the State of New York and all applicable Town and/or Village requirements. All drawings are subject to change as per the requirements of the building codes and the interpretation thereof by the authorities having jurisdiction over the work.
3. The owner will be responsible for the acquisition of a building permit by the Westchester County Department of Health (WCDOH) and notification to the local municipality of approval by WCDOH prior to the commencement of construction. The complex will be responsible to obtain final Certificate of Completion. The owner, construction manager/project manager and/or pool contractor is responsible to call for inspections and sign-off of the gutter & grate installation. Pool engineer consultant/designer to arrange for Department of Health inspections after notification of owner, construction manager/project manager and pool contractor. Engineer designer to be present at all Department of Health inspections. Pool contractor to be present at all local building department inspections.
4. The engineer of record to oversee the project and provide bi-weekly status reports for the complex. The Pool Designer/Engineer of Record is not responsible for supervision.
5. The A.I.A. standard form of general conditions may apply to the pool contractor and to all of his sub-contractors as per complex. Owner to indicate type of contract required.
6. These drawings and accompanying specifications are a guide to the pool contractor. The pool contractor will verify all dimensions and conditions in the field prior to construction; any discrepancies are to be brought to the attention of pool design engineer, construction manager and/or project manager. Under no circumstance are the drawings to be scaled from the plans. Pool contractor will verify all clearances and locations prior to installation.
7. Drawings and specifications shall be followed as closely as actual field conditions. The work of other trades shall be coordinated by the engineer of record and the complex.
8. No material whatsoever shall be placed or stored on the roads or the building parking areas. The complex shall coordinate operations as to interfere as little as possible with the use ordinarily made of any roads, parking areas, sidewalks, facilities, etc. The complex will coordinate storage areas with pool contractor. Complex to supply water, electrical hookup and toilet facilities for the contractor (s).
9. At the conclusion each day, the pool contractor shall leave the premise in broom clean condition safe off and protect all areas of pool construction work areas.
10. The pool contractor shall comply with National, State and local laws and regulations related to Insurance for work under this contract. The pool contractor must be licensed as required by the municipality and/or county where any work is to be completed. The pool contractor shall carry Workman's Compensation and Disability Insurance as required by law. Prior to the commencement of the work the pool contractor shall submit to the complex insurance certificates of a kind, form and in the amounts specified by the complex.
11. All existing condition dimension are field dimensions, they are approximate and should be used for reference only.
12. Manufacturer's specifications & requirements shall be followed exactly.
13. All materials and work required for their installation are intended to be new best quality and condition.
14. Pool contractor (s) any discrepancies, which may occur in contract documents to the attention of the engineer of record in writing and written instructions shall be obtained before proceeding with the work.
15. The Pool contractor will be held responsible for the results of any errors, discrepancies or omissions in the contract documents, of which the pool contractor failed to notify the engineer before construction and /or fabrication of the work.
16. The complex & engineer of record shall coordinate the work of all sub-contractors including pool contractor.
17. Engineer of record to measure pool depths for code compliance and any revisions necessary to be considered an extra to the pool contractor's contract as per unit & labor rate appendices and as approval by the complex. Depth marking as existing to be revised as required. (Decking, vertical depths & no diving signs).
18. The municipality requires all labor to be paid on a "minimum wage" standard.
19. The licensed engineer of record will certify that these plans and specifications comply with the NYS Energy Conservation Code.
20. No alteration or changes can be made to this plan without written permission of this licensed Engineer.
21. All electrical work required for this installation shall conform to National Electrical Code, current edition of the National Fire Protection Assoc., Local Building Codes, County and State Health Department Code and the electrical system to conform to Article 680 of the National Electric Code.
22. The following equipment will be provided by complex: (2) rescue tubes with 60" of line. (2) 15' life poles. (1) 16' long spine board with 10 hand holds, 2 straps and extrication collars. (1) first aid kit and (1) pocket mask for CPR. (For main pool only and also used for wading pool if wading pool is part of the project.)
23. Complex to install "in kind" pool water feed in the surge tank.
24. Project start schedule: Deep end pool perimeter caulking - No later than one week from Labor Day 2018. Grate delivery - No later than October 2018. Cast stone coping removal & prepare entire gutter work - No later than one week of Labor Day 2018.
25. Completion of Gutter work: No later than October 31, 2018. Temporary winter protection of gutter work.
26. Installation: Grates & Revisions to Depth Markings (if required) end of April 2019.
27. Final WCDOH inspection - end of April 2019.
28. Caulking to be 2 part polysulfide (underwater). Color to be selected by complex - white or grey.

SCOPE OF WORK (not necessarily limited to):

1. A licensed electrician shall perform all temporary electrical work by contractor (s).. No overhead wiring shall be installed within 20' horizontal distance of the pool. Ground fault circuit interrupter equipment shall be provided for all electrical devices for toilet facilities buildings, pool operational equipment, pump room by complex licensed electrical with certifications of completions noting areas.
2. Fasteners for grate installation to be plastic shields with stainless steel screws. No metal to touch pool shell concrete and/or masonry under grate areas. 7.
3. Removal of existing cast coping.
4. Gutter perimeter shall be power washed prior to installation of marble (""""""") dusting the full gutter perimeter.
5. Grates are to be manufactured by Grate Ideas and will be delivered to project by September/October 2018. Complex responsible for ordering and cost, storage and templates required for alignment and fit.
6. Grate installation depends on proper height. Gutter tops would have to be cleaned and leveled to tolerances by a combination of masonry and PVC shims supplied by grate manufacturer.
7. Grates to have a caulking bead at the underside meeting with masonry or PVC shims. Caulking also at back of grate connection to decking to be color as selected by complex.
8. Grab at grate pool side must be within 1/16 of an inch for the total perimeter of the pool (Height to be determined by engineer of record).
9. Height of grate w/o grab at "O" entry ramp must meet the height of the adjacent grate grabs at each side. Ramp concrete will require cutting to meet this detail and patch accordingly. Engineer of record will supply detail as part of plans.
10. Caulking under & behind grates to be polysulfide & impervious to pool chemicals.
11. All existing cast stone coping to be removed.

SPECIALTIES & MISCELLANEOUS

1. Complex to obtain necessary permitting prior to each pool season from appropriate municipal authorities.
2. As part of the permitting the Owner to prepare and submit a safety plan per Westchester County Department of Health requirements.
3. The contractor shall provide a written one year labor and material warranty on all contract work and any guarantees/ warranties by manufacturer's equipment.
4. Replace automatic feed in king by complex.
5. New Grates to be templated by "Great Ideas"

CARNELL

Valhalla, NY (914) 946-4300

Forest Hills, NY (718) 529-5800

Westhampton Beach, NY (516) 654- 3230

Stamford, CT (203) 358-8741

Paramus, NJ (201) 261-4460

CARNELL  
ENGINEERING, P.C.

7-11 Legion Drive

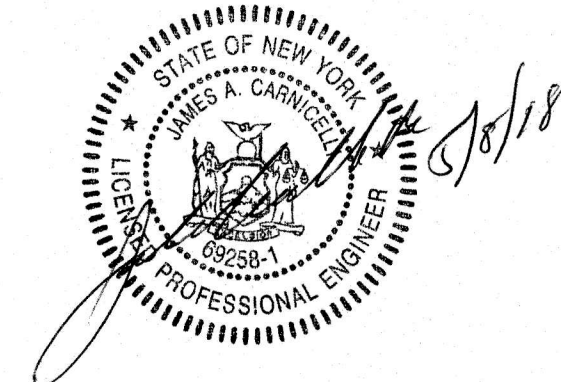
Valhalla, N.Y. 10595

TOWN OF LEWISBORO

MAIN POOL GUTTER GRATE  
REPLACEMENT

Revisions:

NO:	DATE:
1.	
2.	
3.	
4.	



DRAWN BY: JC DATE: MAY 2018