

of Orlando Pa.



10. A

b.

10. A

1998

Voted 1/25

1-COV, P

Copyright 2000

of Orlando Pa.

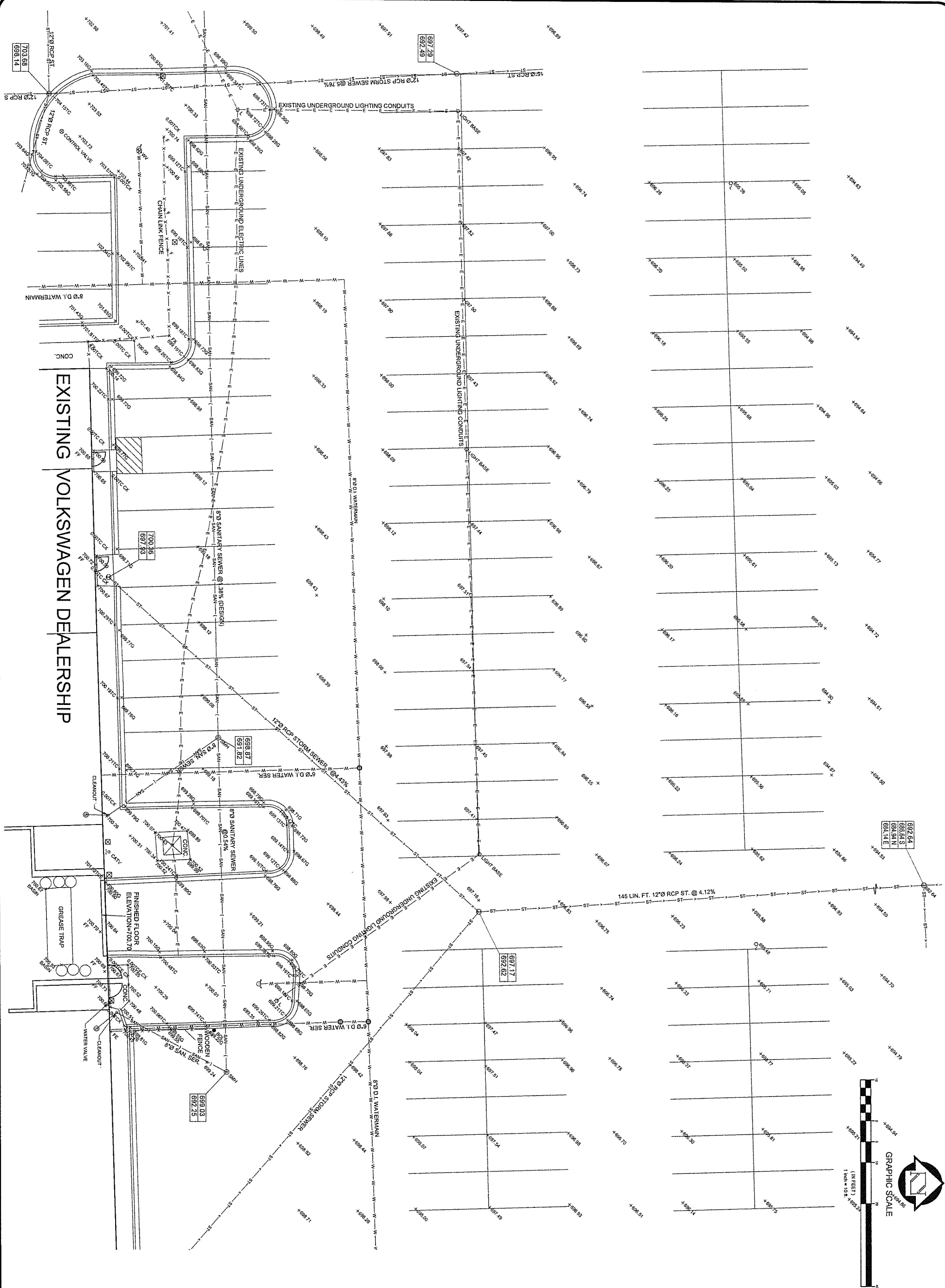
3-ENG. 1-C

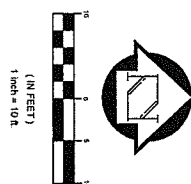
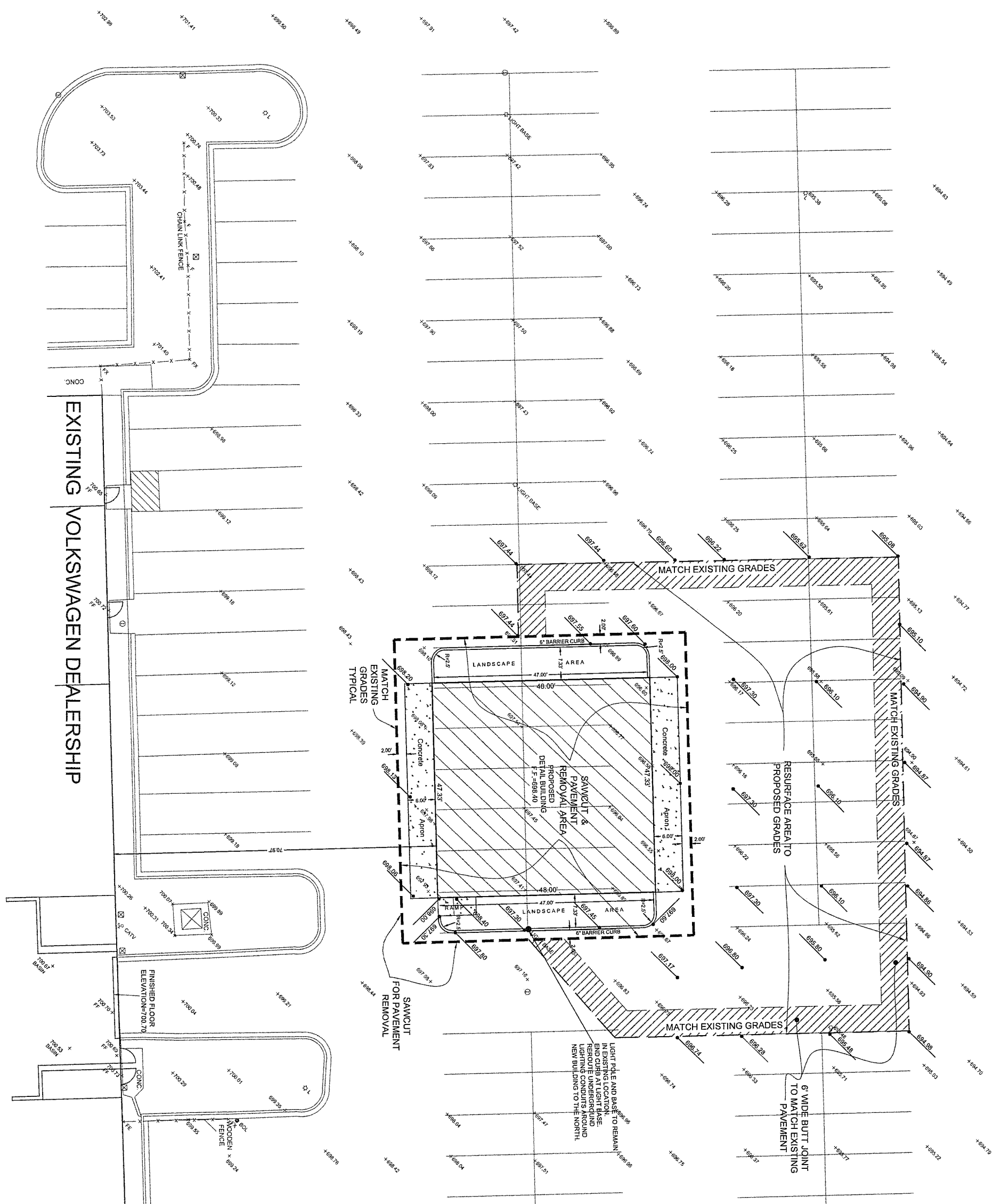
SEPH A. SC

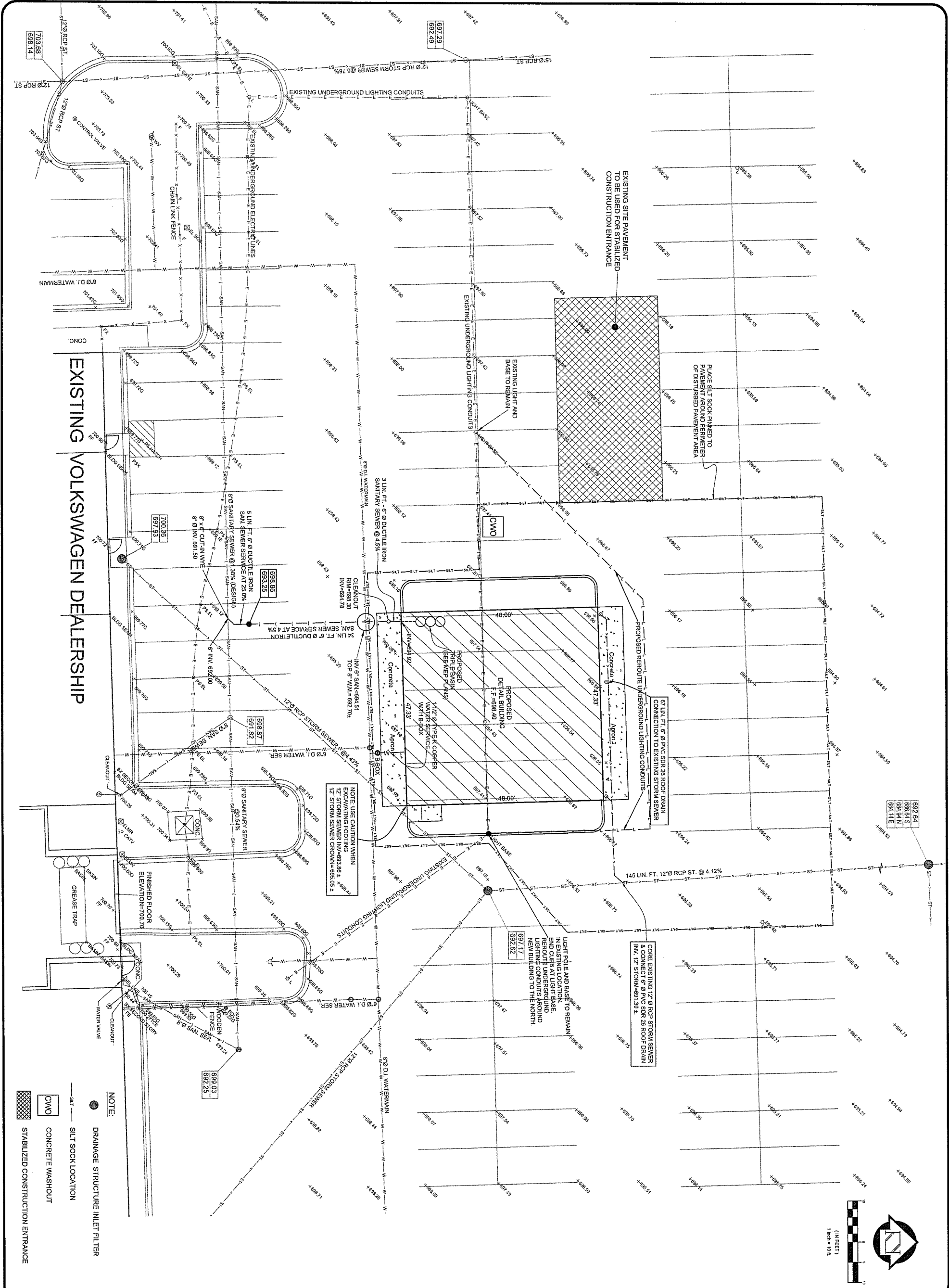
(A) WPA

10 AM









Project No.: 17-053
Date: 11-17-17
Scale: 1" = 10'
Drawn: JAR
Checked: DWO
Sheet: 4 of 7

VOLKSWAGEN OF ORLAND PARK
8920 W. 159th ST., ORLAND PARK, IL
EROSION CONTROL PLAN & UTILITY PLAN

REVISIONS:
REV. 01-26-18
COPYRIGHT © 2018
JOSEPH A. SCHUDT & ASSOCIATES
ALL RIGHTS RESERVED
Any use or reproduction of this document or the stated drawings, or the use of the design approach ideas or concepts described in this document and the attached drawings, in whole or in part by any means whatsoever is strictly prohibited except with written consent of JOSEPH A. SCHUDT & ASSOCIATES

Joseph A. Schudt & Associates
9455 ENTERPRISE DRIVE MOKENA, IL 60448
PHONE: 708-720-1000 www.jaseng.com FAX: 708-720-1065
CIVIL ENGINEERING LAND SURVEYING ENVIRONMENTAL LAND PLANNING GPS SERVICES

STORM WATER POLLUTION PREVENTION PLAN

The following plan is established and incorporated in the project to direct the contractor in the placement of temporary erosion control systems and to provide a storm sewer water pollution prevention plan for compliance under NPDES.

The purpose of this plan is to minimize erosion within the construction site and to limit sediments from leaving the construction site by utilizing proper temporary erosion control systems and providing ground cover within a reasonable amount of time.

Certain erosion control facilities shall be installed by the contractor at the beginning of construction. Other items shall be installed by the contractor as directed by the Engineer on a case by case situation depending on the contractor's sequence of activities, time of year, and expected weather conditions.

The contractor shall install permanent erosion control systems and seedery within a time frame specified herein and as directed by the Engineer, therefore minimizing the amount of area susceptible to erosion and reducing the amount of temporary seeding. The Engineer will determine if any temporary erosion control systems shown in the plan can be deleted and if any additional temporary erosion control systems, which may not be included in the plan, shall be added. The contractor shall perform all work as directed by the Engineer and as shown in Standard 280001.

Section 280. Temporary erosion control, of the standard specifications additionally supplements this plan.

SITE DESCRIPTION & DESCRIPTION OF CONSTRUCTION ACTIVITY.

- The project is located North of 159th Street and West of 88th Avenue in Orland Park, IL. The site disturbance acreage is 0.098 acres.
- Construction includes earthwork, parking improvements, and storm sewer improvements for a proposed site.
- The project is not within the 100-year floodplain limits and no Wetlands are present.

DESCRIPTION OF INTENDED SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTION OF THE CONSTRUCTION SITE:

Erosion control sit fencing shall be in place prior to earthwork activities.

Sloes shall be cleared. Topsoil will be remove and graded as necessary. With all proposed roads graded to roughly 1-foot below final elevation on plans.

After completion of storm sewer construction, storm sewer inlet protection shall be placed at each open-grate structure.

Parking areas shall be constructed

AREA OF CONSTRUCTION SITE.

The total area of the construction site is estimated to be 0.098 acres by which 0.098 acres will be disturbed by excavation, grading, and other activities. Of this 0.098 acres, 0.000 acres are construction within the Public ROW.

OTHER REPORTS, STUDIES AND PLANS, WHICH AID IN THE DEVELOPMENT OF THE STORM WATER POLLUTION PREVENTION PLANS REFERENCED DOCUMENTS.

- Information of the soils and terrain within the site was obtained from topographic surveys and soil borings that were utilized for the development of the proposed temporary erosion control systems.
- Project plan documents, specifications and special provisions, and plan drawings including drainage patterns and approximate slopes anticipated after grading activities were utilized for the proposed placement of the temporary erosion control systems.

DRAINAGE, TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF FROM THIS CONSTRUCTION SITE.

- The site shall drain into existing stormwater detention ponds by means of a proposed storm sewer system, and overland flow. The stormwater detention system reduces the peak stormwater runoff before discharging into existing Village storm sewer system.

CONTROLS, EROSION CONTROLS AND SEDIMENT CONTROL.

- The drawings, specifications and special provisions will ensure that existing vegetation is preserved where attainable and disturbed portions of the site will be stabilized. Stabilization practices include temporary seeding, permanent seeding, mulching, and erosion control blankets. Erosion control blankets shall be installed in appropriate measures as directed by the Engineer. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portion of the site has temporarily or permanently ceased.
- Areas of existing vegetation, wood and grasslands, outside the proposed construction area shall be protected by the Engineer for preserving and shall be protected from construction activities.
- Dead, diseased, or unsuitable vegetation within the site shall be removed as directed by the Engineer, along with required tree removal.
- As soon as accessible access is available to all locations where water drains away from the project, temporary sedimentation barriers shall be installed as called out in this plan and directed by the Engineer.
- Bare and sparsely vegetated ground in high erodible areas as determined by the Engineer shall be temporarily seeded at the beginning of construction where no construction activities are expected within seven (7) days.
- Immediately after tree removal is completed, areas which are highly erodible as determined by the Engineer, shall be temporarily seeded when no construction activities are expected within seven (7) days.
- Establishment of these temporary erosion control measures will have additional benefits to the project. Desirable grass seeds will become established and the erosion control blankets will become permanent vegetation on construction site until permanent landscaping and over seeding can be completed.
- The Village of Orland Park is responsible for conducting site visits and verifying that the practices are working properly and determine if additional practices are needed for better soil erosion and sediment control. If necessary, the Village of Orland Park may direct the Village the contractor will implement the practice in a timely manner.

DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION.

- During construction, areas outside the construction limits as outlined previously herein shall be protected. The contractor shall not use this area for storage of materials or other construction related activities.
- (a) Within the construction limits, areas which may be susceptible to erosion as determined by the Engineer shall remain undisturbed until final scale construction is underway to prevent unnecessary soil erosion.

- As construction proceeds, the contractor shall install the following as directed by the Engineer:

- Place temporary erosion control facilities at locations shown on the plans.
- Temporarily seed erodible bare earth on a weekly basis to minimize the amount of erodible surface area within the contract limits.
- Provide temporary erosion control systems.
- Continue building up the embankment to the proposed grade while, at the same time, placing permanent erosion control final shaping to the slopes.

- Excavated areas and embankment shall be permanently seeded immediately after final grading. If not, they shall be temporarily seeded if no construction activity in the area is planned for seven (7) days.

- Construction equipment shall be stored and fueled only at designated locations. All necessary measures shall be taken to contain any fuel or other pollutant in accordance with EPA water quality regulations. Leaking equipment or supplies shall be immediately repaired or removed from the site.

- The contractor shall inspect the project daily during construction activities. Inspection shall also be done weekly and after rains of 1/2 inch or greater or equivalent snowfall and during the winter shut-down period. The project shall additionally be inspected by the construction field Engineer on a biweekly basis to determine that erosion control efforts are in place and effective and if other erosion control work is necessary.

- Sediment collected during construction of the various temporary erosion control systems shall be disposed of on the site on a regular basis as directed by the Engineer. The cost of this maintenance shall be included in the unit bid price for earth excavation for erosion control.

- The temporary erosion control systems shall be removed, as directed by the Engineer, after use is no longer needed or no longer functioning.

DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING.

- Temporary erosion control systems shall be left in place with proper maintenance until permanent erosion control is in place and nothing properly and all proposed unit areas seeded and established.
- Once permanent erosion control systems as proposed in the plans are functional and established, temporary items shall be removed, cleaned up, and disturbed turf reseeded.
- Upon completion of the industrial buildings, permanent landscaping features, including sod, will be established.

MISCELLANEOUS.

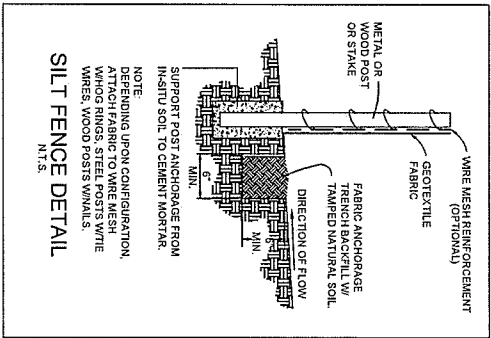
- Temporary erosion control seeding shall be applied at a rate of 100 lbs/acres, if directed.
- Straw bales, hay bales, perimeter erosion barrier and silt fences will not be permitted for temporary or permanent ditch checks. Ditch checks shall be composed of aggregate silt barriers, straw bales, hay bales, or other approved materials, and/or any other material approved by the erosion and sediment control consultant.
- Sediment collected during construction by the various temporary erosion control systems shall be disposed of on the site on a regular basis, as directed by the Engineer. The cost of this maintenance shall be paid for at the contract unit price per cubic yard for earth excavation.
- All erosion control products furnished shall be specifically recommended by the manufacturer for the uses specified in the erosion control plan. Prior to the approval and use of the project, the contractor shall submit to the Engineer a notarized certification by the producer stating the intended use of the product and that the physical properties required for this application are met or exceeded. The contractor shall provide manufacturer installation procedures to facilitate the Engineer in construction inspection.

MAINTENANCE AFTER CONSTRUCTION.

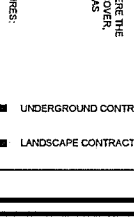
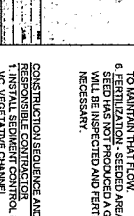
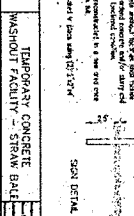
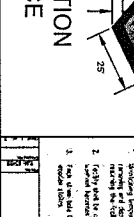
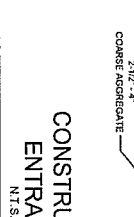
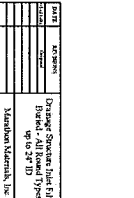
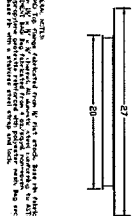
Construction is complete after acceptance by the municipality. Maintenance up to the date will be by the contractor.

INSPECTION AND MAINTENANCE PLAN FOR STORMWATER MANAGEMENT STRUCTURES (BMPS)

	INSPECTION SCHEDULE	CORRECTIVE ACTIONS
VEGETATED AREAS	Annually early spring and after heavy rains	Inspect all slopes and embankments and repair areas of bare soil or with sparse growth. Remove any erosion of the ditch lining. Repair any erosion of the ditch lining.
DITCHES, SWALES AND STORMWATER CHANNELS	Annually spring and after heavy rains	Remove woody vegetation growing through grass. Repair any slumping site slopes. Repair any slumping site slopes.
CULVERTS	Spring and late heavy rains	Remove any erosion damage at the culverts inlet and outlet. Repair any erosion damage at the culverts inlet and outlet.
CATCH BASINS	Annually in the spring	Remove accumulated sediments and debris at the inlet, outlet, or within the conduit. Clear and remove accumulated winter sand in parking lots and along roadways.
ROADWAYS AND PAVED AREAS	Annually in the spring as needed	Grade road shoulders and remove accumulated winter sand. Grade road shoulders and remove accumulated winter sand.
RESOURCE AND TREASUREMENT BUFFERS	Annually in the spring	Inspect the buffer's vegetation with the requirements in any deed restrictions. Repair any signs of erosion within a buffer. Repair any signs of erosion within a buffer.
WETLANDS AND DETENTION BASINS	Annually in fall and after heavy rains	Inspect the buffer's vegetation with the requirements in any deed restrictions. Repair any signs of erosion within a buffer. Repair any signs of erosion within a buffer.
FILTRATION AND INFILTRATION BASINS	Annually in the spring and late fall	Inspect the buffer's vegetation with the requirements in any deed restrictions. Repair any signs of erosion within a buffer. Repair any signs of erosion within a buffer.
PROPRIETARY DEVICES	As specified by manufacturer	Follow the manufacturer's plan for cleaning and maintenance. Follow the manufacturer's plan for cleaning and maintenance.
OTHER PRACTICES	As specified for devices	Follow the manufacturer's plan for cleaning and maintenance. Follow the manufacturer's plan for cleaning and maintenance.



SILT FENCE DETAIL
N.T.S.



STORM WATER POLLUTION PREVENTION PLAN CERTIFICATES.

The following certificates shall be executed & provided to the Village of Orland Park and Engineer with a copy at the job site:

- Contractor Certification Statement: "I, certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit (ILR-10) that authorizes the construction of this project, and I hereby certify that the construction site identifies as part of this certification."

By: _____ Contractor

Owner Certification Statement: "I, certify under penalty of law that the documents and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true and accurate, and I hereby certify that the construction site identifies as part of this certification."

By: _____ Owner

The Village of Orland Park requires compliance with NPDES Phase II program. As such, all developments shall provide to the extent possible, construction site run-off control and illicit discharge prevention and elimination.

- The owner is responsible for submitting the Notice of Intent (NOI) to the IEPA, after the Storm Water Pollution Prevention Plan (SWPPP) is complete. The contractor is responsible for insuring that the NOI is postmarked at least 30 days before commencement of any work on site.
- Prior to commencement of construction, the owner shall provide written notification to the IEPA of completion of the SWPPP and that said plan is available at the site.
- The contractor is responsible for having the SWPPP on site at all times.
- Inspection of controls will be completed by the owner at least once every 7 days and within 24 hours of a storm 0.5" or greater.
- An incident of Non-Compliance (NOC) must be completed and submitted by the owner to the IEPA and copied to the Village if, at any time, an erosion or sediment control device fails.
- A Notice of Termination (NOT) shall be completed by the owner in compliance with NPDES Phase II requirements when all permanent erosion control measures are in place with a 70% establishment rate of vegetation. The NOT shall be sent to the IEPA and the Village.
- The contractor shall take the necessary steps to control waste such as described building materials, concrete truck washout, chemicals, litter and sanitary waste at the construction site that may cause adverse impacts to water quality.

CONSTRUCTION ACTIVITY SEQUENCING.

- Place perimeter all stock March, 2018
- Excavate and construct foundation and concrete washout March, 2018
- Install concrete foundation March, 2018
- Construct new building foundation April, 2018
- Install/construct Storm Sewer System including inlet protection April, 2018
- excavated drains April, 2018
- Construct new parking and curb May, 2018
- Install final landscaping June, 2018

THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE AND THE OWNER WILL ASSUME RESPONSIBILITY OF ALL SOIL EROSION CONTROL MEASURES AFTER CONSTRUCTION.

INSPECTION SCHEDULE
1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED BY THE ENGINEER OR AFTER EVERY WHEN STORM PRODUCTION RAINFALL EXCEEDS 0.5 INCHES.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED AFTER EACH MAJOR PHASE OF THE DEVELOPMENT FOR SEDIMENT CONTROL MEASURES.
3. VEGETATIVE PLANTINGS, SPRING PLANTINGS WILL BE CHECKED DURING SUMMER OR FALL.
4. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED DURING WINTER.
5. MONITORING - DRAINAGEWAYS, DITCHES AND OTHER AREAS THAT SUPPORT A DESIGNATED FLOW SHALL BE MONITORED REGULARLY TO MAINTAIN THAT FLOW.
6. FERTILIZATION - SEEDING AREAS WHERE THE SEED FERTILIZATION PROCEEDED A GOOD COVER, THE SEED FERTILIZATION AND FERTILIZATION IS NECESSARY.

CONSTRUCTION SEQUENCE AND MEASURES:
1. EROSION AND SEDIMENT CONTROL MEASURES:
a. VEGETATIVE PLANTINGS
b. EROSION AND SEDIMENT CONTROL MEASURES:
c. VEGETATIVE PLANTINGS
d. EROSION AND SEDIMENT CONTROL MEASURES:
e. VEGETATIVE PLANTINGS
f. EROSION AND SEDIMENT CONTROL MEASURES:
g. VEGETATIVE PLANTINGS
h. EROSION AND SEDIMENT CONTROL MEASURES:
i. VEGETATIVE PLANTINGS
j. EROSION AND SEDIMENT CONTROL MEASURES:
k. VEGETATIVE PLANTINGS
l. EROSION AND SEDIMENT CONTROL MEASURES:
m. VEGETATIVE PLANTINGS
n. EROSION AND SEDIMENT CONTROL MEASURES:
o. VEGETATIVE PLANTINGS
p. EROSION AND SEDIMENT CONTROL MEASURES:
q. VEGETATIVE PLANTINGS
r. EROSION AND SEDIMENT CONTROL MEASURES:
s. VEGETATIVE PLANTINGS
t. EROSION AND SEDIMENT CONTROL MEASURES:
u. VEGETATIVE PLANTINGS
v. EROSION AND SEDIMENT CONTROL MEASURES:
w. VEGETATIVE PLANTINGS
x. EROSION AND SEDIMENT CONTROL MEASURES:
y. VEGETATIVE PLANTINGS
z. EROSION AND SEDIMENT CONTROL MEASURES:

PROVIDE TEMPORARY SEEDING FOR ALL DISTURBED AREAS. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL THE LANDSCAPING IS TO OCCUR.

VOLKSWAGEN OF ORLAND PARK
8920 W. 159th ST., ORLAND PARK, IL
STORM WATER POLLUTION PREVENTION PLAN

REVISIONS:
REV. 01-26-18
COPYRIGHT © 2018
JOSEPH A. SCHUDT & ASSOCIATES
ALL RIGHTS RESERVED
Any use of this document or the use of the design or construction of the project described in this document without the written consent of Joseph A. Schudt & Associates is strictly prohibited.

Joseph A. Schudt & Associates
9455 ENTERPRISE DRIVE
PHONE: 708-720-1000 www.jaseng.com FAX: 708-720-1065
CIVIL ENGINEERING LAND SURVEYING ENVIRONMENTAL LAND PLANNING GPS SERVICES

Date: 11-17-17
Scale: N/A
File Name: 2017-17-053-ENG
Drawn: JAR
Checked: DMO
Sheet: 5 of 7
Project No.: 17-053

GENERAL CONDITIONS

1. Village of Orland Park - Public Works (Telephone 708-444-5500), MAWRD, Sewer Permit Office (Telephone 708-558-4055), and Joseph A. Schudt & Associates (Telephone 708-720-1000) must be notified (2) working days prior to commencement of work.
2. The Standard Specifications, construction plans and subsequent details are all to be considered as part of the contract. Incidental items or accessories necessary to complete this work may not be specifically noted but are to be considered a part of the contract.

3. Prior to commencement of construction, the contractor shall verify all dimensions and conditions at the job site. In addition, the contractor must verify the Engineer line and grade stakes. If there are any discrepancies from what is shown on the construction plans, he must immediately report same to the Engineer before doing any work, otherwise the contractor assumes full responsibility. In the event of disagreement between the contractor and the Engineer, the contractor shall be responsible for the cost of any additional work or materials required to complete the project. The contractor shall be responsible for the cost of any additional work or materials required to complete the project.
4. All work performed under this contract shall be guaranteed by the contractor and his surety for a period of 12 months from the date of final acceptance of the work by the Municipality against all defects in materials and workmanship of whatever nature.
5. Before acceptance by the Owner and final payment, all work shall be inspected and approved by the Owner or his representative. Final payment will be made after all of the contractor's work has been approved and accepted.
6. Upon award of the contract and when required by the Municipality, the contractor shall furnish a bond, material and performance bond, in the amount of 100% of the contract price, to be held by the Municipality. The bond shall be acceptable to the Municipality. Maintenance Bond after construction may also be required.
7. Easements for the existing utilities, both public and private, and utilities within public right-of-way are shown on the plans according to available record. The contractor shall be responsible for the location and depth of all existing utilities. The contractor shall be responsible for the location and depth of all existing utilities. The contractor shall be responsible for the location and depth of all existing utilities.
8. Removed pavement, sidewalk, curb and gutter, etc. shall be replaced at the same location, location provided by the contractor, at the owner's expense.
9. The contractor shall be responsible for the installation and maintenance of adequate signs, traffic control devices, and warning devices to inform and protect the public during all phases of construction. One lane in each direction shall be kept in traffic at all times. The contractor shall be responsible for the location and depth of all existing utilities. The contractor shall be responsible for the location and depth of all existing utilities.
10. Barriercas and warning signs shall be provided in accordance with Article 107.14 of the Standard Specifications. Adequate lighting shall be provided for all construction operations. The contractor shall be responsible for the location and depth of all existing utilities. The contractor shall be responsible for the location and depth of all existing utilities.
11. Commonwealth Edison (Com-Ed), A.T. & T. Telephone, and N-Carrier shall be notified of all construction operations. The contractor shall be responsible for the location and depth of all existing utilities. The contractor shall be responsible for the location and depth of all existing utilities.
12. Whenever the performance of work is indicated on the plans, and no item is included in the contract for payment, the work shall be considered incidental to the contract, and no additional compensation shall be allowed.
13. All existing traffic signs, street signs, etc., which interfere with the construction shall be removed or relocated. The contractor shall be responsible for the location and depth of all existing utilities. The contractor shall be responsible for the location and depth of all existing utilities.
14. All permanent type pavements or permanent improvements which are to be removed or relocated shall be replaced with the same material and construction as the original condition or better. Payment for sawing shall be included in the cost of removal of each item and replacement will be paid under the respective items in the contract, unless otherwise indicated.
15. Where overheading branches interfere with operations of construction, said branches shall be trimmed and sealed in accordance with section 645.09 of the Standard Specifications, and the cost of same shall be incidental to the contract. If trees or shrubs must be removed, they will be paid for in accordance with the specifications.
16. The contractor shall submit in writing a "Schedule of Operations" showing approximate dates for commencement and completion of various phases of construction under this contract. The schedule shall have the approval of the Engineer and the date for starting shall be mutually agreed upon between the contractor and the Engineer.
17. Special attention is drawn to the fact that article 105.06 of the Standard Specifications require the contractor to have a competent superintendent on the project site at all times (irrespective of the amount of work sublet). The superintendent shall be capable of reading and understanding the plans and specifications, shall have full authority to execute orders to expedite the project, and shall be responsible for the location and depth of all existing utilities. The contractor shall be responsible for the location and depth of all existing utilities.

EARTHWORK

18. When V-shape and Grade Road, that are uncovered during construction shall be replaced in grade prior to restoring the pavement, sidewalk or pathway. The cost of same shall be considered as incidental to the contract.
19. It shall be the responsibility of the contractor to remove from the site any and all materials and debris which result from this construction operation at no additional expense to the Owner.
20. The Municipality and/or the Governing Agency shall be notified 48 hours prior to the start of any construction.

1. Work under this section shall include but not be limited to the following:
- A. Clearing and removing from the site, all undesirable trees and other vegetation grown within the construction area. The removal shall be kept to a minimum.
- B. Striping of topsoil from all excavation, pavement and structural fill areas.
- C. Stockpiling of topsoil at locations as directed by the Owner or Engineer. Topsoil stockpiled for future use shall be relatively free from large rocks, sticks, weeds, brush, stones larger than one (1) inch diameter or other size and waste products including dirt and debris. The contractor shall be responsible for the location and depth of all existing utilities. The contractor shall be responsible for the location and depth of all existing utilities.
- D. Clay cut and Clay fill with compaction within roadway and all other structural fill areas.
- E. Clay Cut and Excavation of all lakes and waterways per plan including all treatments.
- F. Placement and compaction of clay to standards as required on the construction plans to the design subgrade elevations. The contractor will note that the elevations shown on the construction plans are finished grade elevations and that permanent thickness must be subtracted to determine the depth of excavation. The contractor shall be responsible for the location and depth of all existing utilities. The contractor shall be responsible for the location and depth of all existing utilities.
- G. Backfilling and compaction behind new cuts and gutters.
- H. Movement and compaction of soil material from the construction of underground utilities.
- I. Topsoil Placement to design finished grade elevations (6" minimum or as otherwise noted).
- J. If required, removal from site of all excess earth material including excess utility trench spoil after final grading.
2. The quantities given in the Engineer's Bid Proposal for earthwork is intended as a guide for the contractor in determining the scope of the completed project. It is the contractor's responsibility to determine all material quantities and appraise himself of all site conditions. The contract price submitted by the contractor shall be considered as firm sum for the complete project, including all materials, labor, equipment, and other items required for the project. The contractor shall be responsible for the location and depth of all existing utilities. The contractor shall be responsible for the location and depth of all existing utilities.
3. Proposed pavement areas and when applicable, building pads, driveways and sidewalks shall be excavated or filled to plus or minus 0.1 foot design subgrade elevations by the contractor. The subgrade shall be free of unsuitable material and shall be compacted to a minimum of ninety-five (95) percent of modified proctor density. Testing for compaction shall be the responsibility of the contractor.
4. Upon completion of the surface improvement, the excavator shall detention pond areas.
5. During construction operations, the contractor shall insure positive site drainage at the conclusion of each day. Site drainage may be achieved by ditches, pumping or any other method acceptable to the Engineer. The contractor shall be responsible for the location and depth of all existing utilities. The contractor shall be responsible for the location and depth of all existing utilities.
6. Whenever, during construction operations, any loose material is deposited in the flow line of gutter, drainage structures, ditches, etc., such that the nature flow line of water is obstructed, the contractor shall be responsible for the location and depth of all existing utilities. The contractor shall be responsible for the location and depth of all existing utilities.
7. At the conclusion of construction operations, all drainage structures and flow lines shall be free from dirt and debris. This work shall be considered incidental to the contract.
8. All disturbed areas within the right-of-way, pathways and detention areas shall be seeded with I.D.O.T. C-1 mixture in accordance with the Standard Specifications for Road and Bridge Construction. The contractor shall be responsible for the location and depth of all existing utilities. The contractor shall be responsible for the location and depth of all existing utilities.
9. Soil erosion control specifications shall be considered as part of this section.
10. All atwork and utility spots to be marked off-site shall be marked by the contractor for disposal requirements.

UNDERGROUND

1. Work under this section shall include trenching, installation of pipe, castings, structures, backfilling of trenches and compaction.
2. All manholes and valve vaults shall be equipped with steps.
3. All sewer and water main trenches beneath proposed or existing structures shall be backfilled with concrete. The contractor shall be responsible for the location and depth of all existing utilities. The contractor shall be responsible for the location and depth of all existing utilities.

PAVING, CURB & WALKS

4. All existing structures, adjoining curb and frame shall be securely sealed to each other or to the concrete section of top barrel section of the manhole using resilient, flexible, non-hardening, petroleum, bituminous mastic (BAM-NEK, or Approved Equal). This mastic shall be applied in such a manner that no surface water or ground water will enter the manhole through gaps between barrel sections or cone sections and adjoining rings. (ASTM C-478 STRUCTURE)
5. The underground contractor shall stockpile all utility pipe in an area designated by the Engineer or Owner. This work shall be considered incidental to the contract. It is authorized to do so. The underground contractor shall have out and assure all utility pipe or remove it from the site. If no Earthwork Contract is awarded for this project, the underground contractor shall be responsible for removal of all pipe and structures from the site. This work shall be considered incidental to the contract.
6. The construction will be observed by the Owners Engineer. All work shall conform to the requirements of the Municipality as well as the Standard Specifications.
7. The contractor shall provide the Engineer and the Municipality, and/or the Governing Agency, with prints and/or legible Mylar Record Drawings of all field files, cleanups, wires, service stubs, B-Boxes, and underdrains as required.
8. Separation between water mains and sewers must be maintained in accordance with Section 112.018 C & D of the "Standard Specifications". For storm sewer pipes that cross water mains, the storm sewer must be constructed of low head pressure pipe meeting ASTM C-443. The flexible "O" ring utilized in the type of joint must be properly seated to insure water-tightness.
9. Watermain and fittings shall be ductile iron pipe, Class 52 (AWWA C-900). The ductile iron pipe, fittings, and appurtenances shall be encased in polymer according to AWWA C-105, unless a soil survey has been performed and non-corrosive soils were found to exist. The soil survey shall meet AWWA Soil Test Specs. Joints shall be push on type, Crown Company Super Bell-Joint or approved equal. Minimum cover from finished grade to top of watermain shall be 5 feet.
10. Valves shall be Mueller, Clayco, or approved equal, mechanical joint, resilient wedge steel, cast iron, bronze mounted, o-ring seal, bronze rising stem, gate valve. All valves shall be rated for 300 PSI test pressure and 150 PSI working pressure.
11. All watermain shall be bedded with compacted granular C.A. 1 material, minimum thickness equal to 1/4 the outside diameter of the pipe, but not less than 6".
12. All bends in the watermain of 10 degrees or greater shall be installed with thrust blocking or as directed by Project Engineer per standard detail.
13. Valve boxes shall be good quality cast iron and made in sections, diameter as specified on the plans, with appropriate lids (see construction standards sheet). Lids shall be imprinted "Water".
14. Valve basins shall be of precast concrete per ASTM C-478 with bituminous mastic joints, 48 inch inside diameter with Type 1 frame and closed lid marked "Water".
15. All watermains shall be subjected to a pressure test upon completion and prior to acceptance. Installation of watermains shall conform to AWWA Section C-600-77. Hydrostatic pressure test and leakage test shall be based on the Municipality's requirements. The procedure for watermain installation shall conform to AWWA Section C-650-96.
16. All system valves shall be opened fully once the water mains have been tested completely. This system will be checked by the Municipality's Fire Department for adequate fire flows as soon as possible after the water mains are completed.
17. All hydrants shall be of the compression or gate type, as manufactured by Valmet, or approved equal.
18. All floor drains shall be connected to the sanitary sewer and all downspouts and footing drains shall discharge into storm sewer or onto the ground.
19. Catch inlets are to be EIMV-7010 Type M-3 HD, or as indicated on the plans.
20. Rigid Sanitary Sewers and Storm Sewers shall be installed on Class B bedding, 1/4" to 1" in size, with a minimum thickness equal to that specified on the appropriate section of the Standard Specifications. Bedding material shall conform to the requirements of ASTM C-33 for concrete and CA-11 for gradation. Cost for bedding shall be negotiated with unit price bid for the sewer.
21. Where flexible pipe is used, the pipe shall be installed on Class B bedding and additional special considerations shall be provided in accordance with ASTM D-3024. A 95% Mandrel is required and will not be used prior to 45 days after backfilling.
22. Band-Seal or similar flexible type couplings shall be used when connecting sewer pipes of dissimilar materials. When connecting manholes, the contractor shall use a "sewer tap" and hub-type or hub-tee saddle.
23. All Sewer Main connections to an existing sanitary sewer main shall be with a manhole.
24. Sanitary sewers shall be PVC SDR 26 (ASTM 3034) with rubber gaskets joints (ASTM D-3272) and shall be installed according to the requirements of Uni-B-79. Only Class 1 bedding material shall be allowed according to the requirements of ASTM D-2321. Connection to the existing sanitary manhole shall be completed by removing a portion of the existing man and connecting the manhole to the existing sanitary sewer. The contractor shall be responsible for the location and depth of all existing utilities. The contractor shall be responsible for the location and depth of all existing utilities.
25. Sanitary sewers, where indicated as ductile iron, shall be AWWA C151, Class 52 with cement lining (AWWA C104) and rubber push on joints (AWWA C110).
26. Sanitary sewer manholes shall be 4'-0" diameter precast structures. Manholes shall also include the appropriate frame and sealed lids.

SEDIMENTATION & EROSION CONTROL

1. All storm water runoff is to be directed to catch basins with sumps and discharge to the storm sewer. Drainage Structure Inlet Filter Devices shall be placed in the catch basins, inlets, or manholes, so as to filter and contain any and all soil and debris.
2. When storm water is to be routed through existing or proposed detention basins, they are to be constructed immediately upon completion of the project. The contractor shall be responsible for the location and depth of all existing utilities. The contractor shall be responsible for the location and depth of all existing utilities.
3. All catch basins, sumps and/or retention basins are to be cleaned at the end of the project prior to final acceptance. Cleaning may also be required to remove sediment from the catch basins. If the catch basins are not cleaned, the contractor shall be responsible for the location and depth of all existing utilities. The contractor shall be responsible for the location and depth of all existing utilities.
4. Unless soil erosion control items are specifically referred to as bid items (such as topsoil, seeding, etc.), they are to be considered as incidental to the cost of the contract.
5. Any soil erosion control measures in accordance with the "Prevention and Control of Urban Soil Erosion and Sedimentation Control in Illinois", current edition, shall be followed at the discretion of the Municipality.
6. Any soil erosion control measures in accordance with the "Prevention and Control of Urban Soil Erosion and Sedimentation Control in Illinois", current edition, shall be followed at the discretion of the Municipality.
7. Seeding shall conform to section 250 of the "Standard Specifications".

Construction Specification - Pollution Control & Soil Erosion & Sediment Control

Illinois Urban Manual			
Construction Specification Name	Code	Date	Revision
1. Stormwater Management	1	10/2001	1
2. Stormwater Management	2	10/2001	2
3. Stormwater Management	3	10/2001	3
4. Stormwater Management	4	10/2001	4
5. Stormwater Management	5	10/2001	5
6. Stormwater Management	6	10/2001	6
7. Stormwater Management	7	10/2001	7
8. Stormwater Management	8	10/2001	8
9. Stormwater Management	9	10/2001	9
10. Stormwater Management	10	10/2001	10
11. Stormwater Management	11	10/2001	11
12. Stormwater Management	12	10/2001	12
13. Stormwater Management	13	10/2001	13
14. Stormwater Management	14	10/2001	14
15. Stormwater Management	15	10/2001	15
16. Stormwater Management	16	10/2001	16
17. Stormwater Management	17	10/2001	17
18. Stormwater Management	18	10/2001	18
19. Stormwater Management	19	10/2001	19
20. Stormwater Management	20	10/2001	20
21. Stormwater Management	21	10/2001	21
22. Stormwater Management	22	10/2001	22
23. Stormwater Management	23	10/2001	23
24. Stormwater Management	24	10/2001	24
25. Stormwater Management	25	10/2001	25
26. Stormwater Management	26	10/2001	26
27. Stormwater Management	27	10/2001	27
28. Stormwater Management	28	10/2001	28
29. Stormwater Management	29	10/2001	29
30. Stormwater Management	30	10/2001	30
31. Stormwater Management	31	10/2001	31
32. Stormwater Management	32	10/2001	32
33. Stormwater Management	33	10/2001	33
34. Stormwater Management	34	10/2001	34
35. Stormwater Management	35	10/2001	35

VOLKSWAGEN OF ORLAND PARK
8920 W. 159th ST., ORLAND PARK, IL
CONSTRUCTION SPECIFICATIONS

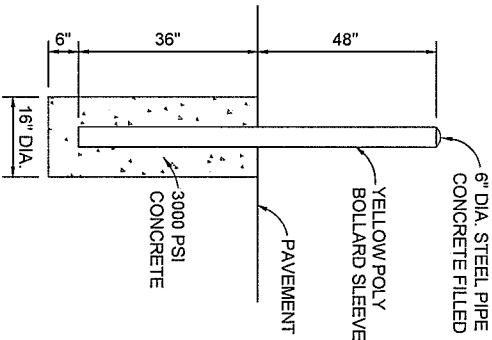
REVISIONS:
COPYRIGHT © 2018
JOSEPH A. SCHUDT & ASSOCIATES
ALL RIGHTS RESERVED
Any use of the drawings or specifications without the written consent of Joseph A. Schudt & Associates is strictly prohibited.



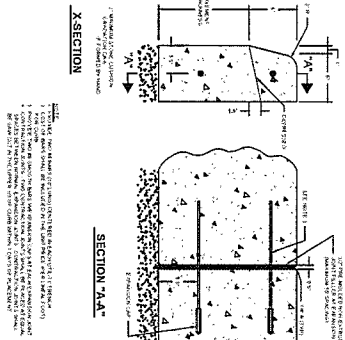
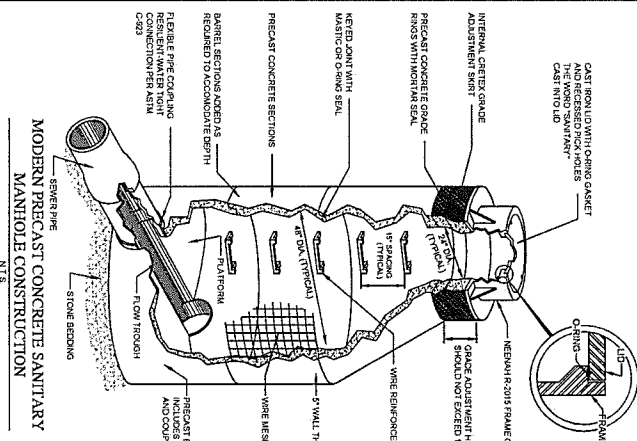
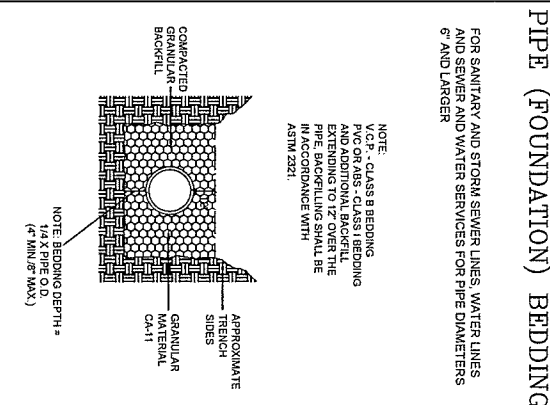
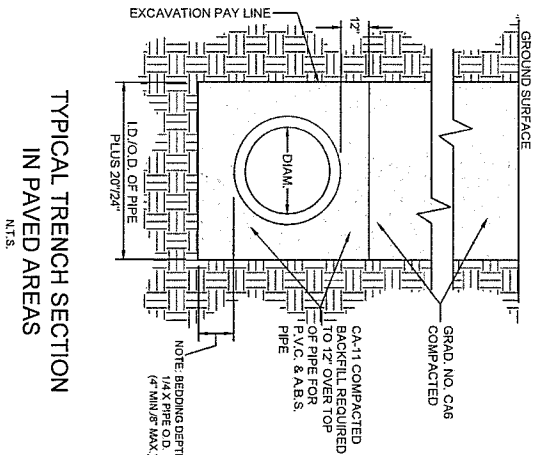
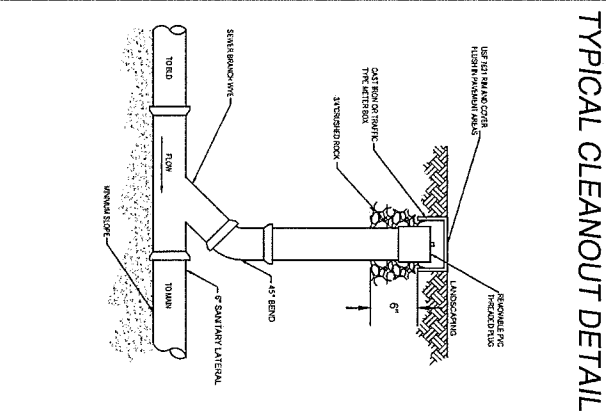
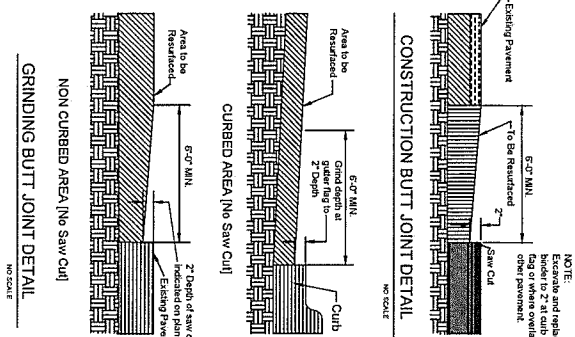
Joseph A. Schudt & Associates
9455 ENTERPRISE DRIVE
PHONE: 708-720-1000 www.jaseng.com FAX: 708-720-1065
MOKENA, IL 60448

CIVIL ENGINEERING LAND SURVEYING ENVIRONMENTAL LAND PLANNING GPS SERVICES

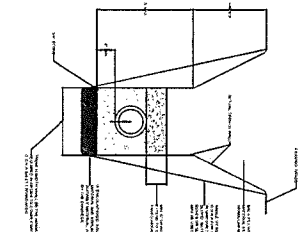
Project No.: 17-053
6 of 7
Date: 11-17-17
Scale: N/A
Drawn: JAR
Checked: JAR
Sheet: 981
982
983
984
985
986
987
988
989
990
991
992
993
994
995
996
997
998
999



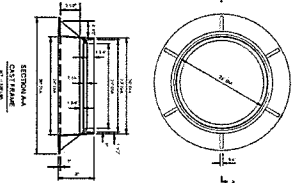
STEEL BOLLARD DETAIL
N.T.S.



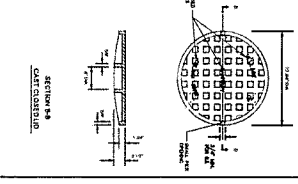
ITEM	DESCRIPTION	QUANTITY	UNIT
1	CONCRETE CURB	1.00	LINEAL FOOT
2	CONCRETE GUTTER	1.00	LINEAL FOOT
3	CONCRETE SIDEWALK	1.00	SQ. YARD



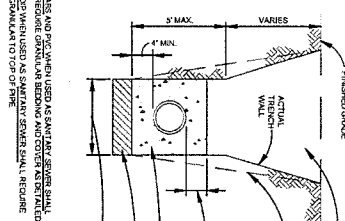
ITEM	DESCRIPTION	QUANTITY	UNIT
1	CONCRETE CURB	1.00	LINEAL FOOT
2	CONCRETE GUTTER	1.00	LINEAL FOOT
3	CONCRETE SIDEWALK	1.00	SQ. YARD



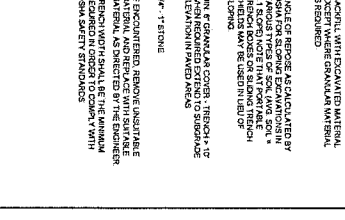
ITEM	DESCRIPTION	QUANTITY	UNIT
1	CONCRETE CURB	1.00	LINEAL FOOT
2	CONCRETE GUTTER	1.00	LINEAL FOOT
3	CONCRETE SIDEWALK	1.00	SQ. YARD



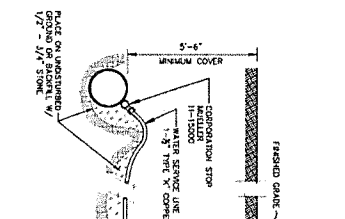
ITEM	DESCRIPTION	QUANTITY	UNIT
1	CONCRETE CURB	1.00	LINEAL FOOT
2	CONCRETE GUTTER	1.00	LINEAL FOOT
3	CONCRETE SIDEWALK	1.00	SQ. YARD



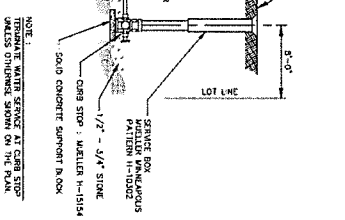
ITEM	DESCRIPTION	QUANTITY	UNIT
1	CONCRETE CURB	1.00	LINEAL FOOT
2	CONCRETE GUTTER	1.00	LINEAL FOOT
3	CONCRETE SIDEWALK	1.00	SQ. YARD



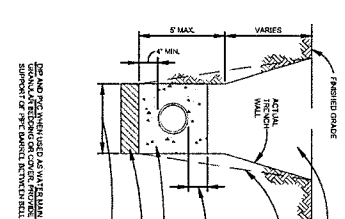
ITEM	DESCRIPTION	QUANTITY	UNIT
1	CONCRETE CURB	1.00	LINEAL FOOT
2	CONCRETE GUTTER	1.00	LINEAL FOOT
3	CONCRETE SIDEWALK	1.00	SQ. YARD



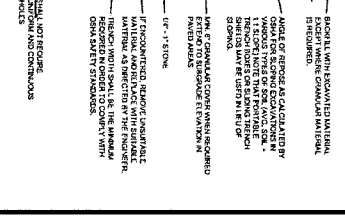
ITEM	DESCRIPTION	QUANTITY	UNIT
1	CONCRETE CURB	1.00	LINEAL FOOT
2	CONCRETE GUTTER	1.00	LINEAL FOOT
3	CONCRETE SIDEWALK	1.00	SQ. YARD



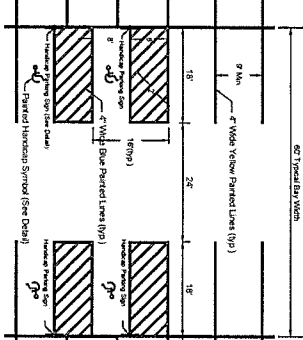
ITEM	DESCRIPTION	QUANTITY	UNIT
1	CONCRETE CURB	1.00	LINEAL FOOT
2	CONCRETE GUTTER	1.00	LINEAL FOOT
3	CONCRETE SIDEWALK	1.00	SQ. YARD



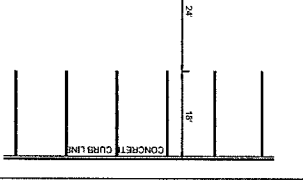
ITEM	DESCRIPTION	QUANTITY	UNIT
1	CONCRETE CURB	1.00	LINEAL FOOT
2	CONCRETE GUTTER	1.00	LINEAL FOOT
3	CONCRETE SIDEWALK	1.00	SQ. YARD



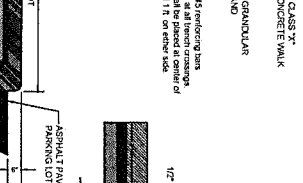
ITEM	DESCRIPTION	QUANTITY	UNIT
1	CONCRETE CURB	1.00	LINEAL FOOT
2	CONCRETE GUTTER	1.00	LINEAL FOOT
3	CONCRETE SIDEWALK	1.00	SQ. YARD



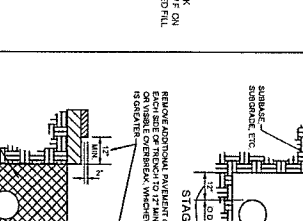
ITEM	DESCRIPTION	QUANTITY	UNIT
1	CONCRETE CURB	1.00	LINEAL FOOT
2	CONCRETE GUTTER	1.00	LINEAL FOOT
3	CONCRETE SIDEWALK	1.00	SQ. YARD



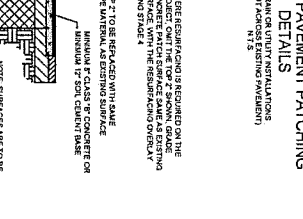
ITEM	DESCRIPTION	QUANTITY	UNIT
1	CONCRETE CURB	1.00	LINEAL FOOT
2	CONCRETE GUTTER	1.00	LINEAL FOOT
3	CONCRETE SIDEWALK	1.00	SQ. YARD



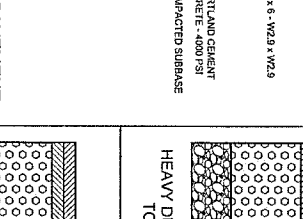
ITEM	DESCRIPTION	QUANTITY	UNIT
1	CONCRETE CURB	1.00	LINEAL FOOT
2	CONCRETE GUTTER	1.00	LINEAL FOOT
3	CONCRETE SIDEWALK	1.00	SQ. YARD



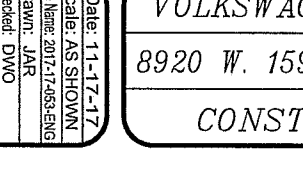
ITEM	DESCRIPTION	QUANTITY	UNIT
1	CONCRETE CURB	1.00	LINEAL FOOT
2	CONCRETE GUTTER	1.00	LINEAL FOOT
3	CONCRETE SIDEWALK	1.00	SQ. YARD



ITEM	DESCRIPTION	QUANTITY	UNIT
1	CONCRETE CURB	1.00	LINEAL FOOT
2	CONCRETE GUTTER	1.00	LINEAL FOOT
3	CONCRETE SIDEWALK	1.00	SQ. YARD



ITEM	DESCRIPTION	QUANTITY	UNIT
1	CONCRETE CURB	1.00	LINEAL FOOT
2	CONCRETE GUTTER	1.00	LINEAL FOOT
3	CONCRETE SIDEWALK	1.00	SQ. YARD



ITEM	DESCRIPTION	QUANTITY	UNIT
1	CONCRETE CURB	1.00	LINEAL FOOT
2	CONCRETE GUTTER	1.00	LINEAL FOOT
3	CONCRETE SIDEWALK	1.00	SQ. YARD

VOLKSWAGEN OF ORLAND PARK
8920 W. 159th ST., ORLAND PARK, IL
CONSTRUCTION DETAILS

REVISIONS:
REV. 01-26-18

COPYRIGHT © 2018
JOSEPH A. SCHUDT & ASSOCIATES
ALL RIGHTS RESERVED
Any use or reproduction of this document or the attached drawings or the use of the design approach described in this document without the written consent of Joseph A. Schudt & Associates is strictly prohibited.



Joseph A. Schudt & Associates
9455 ENTERPRISE DRIVE MOKENA, IL 60448
PHONE: 708-720-1000 www.jaseng.com FAX: 708-720-1065

CIVIL ENGINEERING LAND SURVEYING ENVIRONMENTAL LAND PLANNING GPS SERVICES

Date: 11-17-17
Scale: AS SHOWN
File Name: 2017-17-03-ENG
Drawn: JAR
Checked: DVO
Sheet: 7 of 7
Project No.: 17-053

© 2017 Ives/Ryan Group, Inc.
No drawings, specifications, design ideas, and
other information shall be reproduced, stored in
a retrieval system, or transmitted in any form
or by any means, electronic, mechanical, photocopying,
recording, or by any information storage and
retrieval system, without the prior written
consent of Ives/Ryan Group, Inc.

REVISIONS

NEW DETAIL BUILDING
VOLKSWAGEN
OF ORLAND PARK

IRG Ives/Ryan
Group, Inc.
324 BISHOPMAN LANE N.
LOMBARD, IL 60148
PHONE: 630.717.0726

Landscape Architecture
Park & Recreation Design
Site & Community Planning
www.ivesryanpop.com

LANDSCAPE
PLAN

PROJECT NO.: JOB NO.:

L1817 9010

DATE: 11/16/17

SCALE: 1"=10'

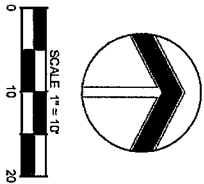
PLANNER: RM

DRAWN BY: RM

CHECKED: _____

SHEET

L-1



CALL
JULIE
at Ives/Ryan
Group, Inc.
630.717.0726
TOLL FREE
800.451.1111
Every Day

GENERAL NOTES:

Plant material shall be nursery grown and be either balled and burl banded or container grown. Specs and spreads on plant list represent minimum requirements.

The requirements for measurement, branching and ball size shall conform to the latest edition of ANSI Z60.1, "AMERICAN STANDARD FOR NURSERY STOCK" by the American Nursery & Landscape Association.

Any materials with damaged or crooked/disfigured leaders, latent diseases, sunscald, insect damage, etc. are not acceptable and will be rejected. Trees with multiple leaders will be rejected unless called for in the plant list as multi-trunk or clump (cl).

If any mistakes, omissions, or discrepancies are found to exist with the work product, the Landscape Architect shall be promptly notified so that they have the opportunity to take any steps necessary to resolve the issue. Failure to promptly notify the Landscape Architect and the Owner of such conditions shall absolve them from any responsibility for the consequences of such failure.

Under no circumstances should these plans be used for construction purposes without the written approval of the Landscape Architect. The Landscape Architect's documents remain their own, including related documents prepared by the project Civil Engineer and Architect.

Civil Engineering or Architectural base information has been provided by others. The location of various site improvements on this set of drawings is only illustrative and should not be relied upon for construction purposes.

Quantity lists are supplied as a convenience. However, Bidders and the installing Contractor should verify all quantities. The drawings shall take precedence over the lists. Any discrepancies shall be reported to the Landscape Architect.

Actions taken without the knowledge and consent of the Owner and the Landscape Architect shall be at the installer's sole risk. The Landscape Architect's work product or recommendations, shall become the responsibility of the Owner and the Landscape Architect, but for the parties responsible for the liability of such action.

Refer to Civil Engineering documents for detailed information regarding size, location, depth and type of utilities, as well as locations of other site improvements, other than landscape improvements.

Plant symbols illustrated on this plan are a graphic representation of proposed plant material types and are intended to provide for visual clarity. However, the symbols do not necessarily represent actual plant spread at the time of installation.

All plant species specified are subject to availability. Material shortages in the landscape industry may require substitutions. All substitutions must be approved by the Village, Landscape Architect and Owner.

The Landscape Contractor shall verify location of all underground utilities prior to digging by calling "J.U.L.I.E." (Joint Utility Location for Excavation) for 1-800-862-0122 and any other public or private agency necessary for utility location.

All perennial, ornamental grass, groundcover and annual beds shall be top dressed with a minimum of three inches (3") of mulchroom compost. The top dressing shall be worked into the soil to a minimum depth of nine inches (9") by the use of a cultivating mechanism. Upon completion perennials & ornamental grasses shall be watered thoroughly. Annuals & groundcovers shall be covered with an additional two inch (2") layer of mulchroom compost.

All other planting beds and tree saucers shall be mulched with a minimum of three inches (3") of shredded wood mulch.

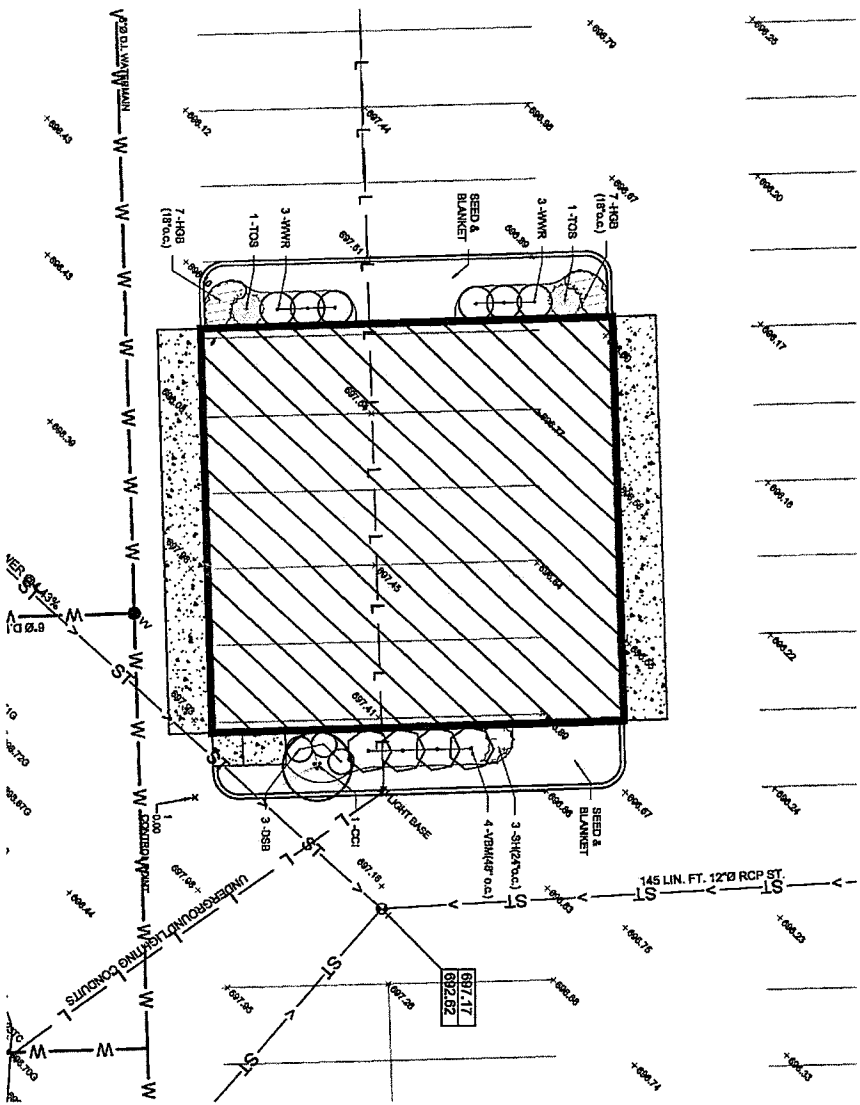
Planting beds adjacent to building shall be mulched in their entirety to the building foundation. Plant materials shall not be installed under building overhangs and other such areas which do not receive natural rainfall.

All bed lines and tree saucers shall require a hard spaced edge between lawn and mulched areas.

Grading shall provide slopes which are smooth and continuous. Positive drainage shall be provided in all areas.

Seed shall be mineral base only.

Seed mixes shall be applied mechanically so that the seed is incorporated into the top three inch (3") of the seed bed. The seed shall then be covered with the specified mulch. (Installed per manufacturer's specs or hydroseeding). All plant material shall be guaranteed for one (1) year from the date of acceptance.



LANDSCAPE CALCULATIONS:

Foundation - 92 LF less access doors
Req. Landscaping - 1 Ornamental Tree & 16 Shrubs per 100 LF
82 divided by 100 = .82

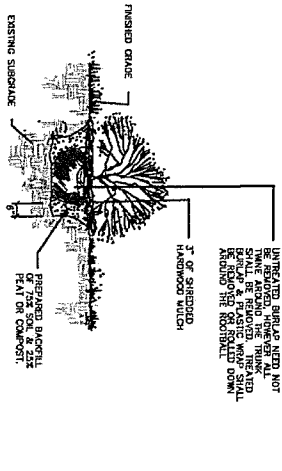
Plant Type Req. Plant Quantity Quantity Provided
Ornamental Tree 1 x .92 = .92 or 1 tree 1
Shrubs 16 x .92 = 14.7 or 15 shrubs 15

PLANT LIST:

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE & TYPE
CCI 1	1	Catalpa c. inermis	Thomasia Codognoti Hawthorn	6' BBd cl.
DSB 3	3	Desfontainia s. Batisia	Desfontainia s. Batisia	24" BBS
TOS 2	2	Triplaris s. Shiner	Triplaris s. Shiner	4' BBS
WBR 6	6	Wedelia s. Batisia	Wedelia s. Batisia	24" BBS
HGB 14	14	Hemiphragma s. Batisia	Hemiphragma s. Batisia	24" BBS
SH 3	3	Sporobolus s. Batisia	Sporobolus s. Batisia	#1

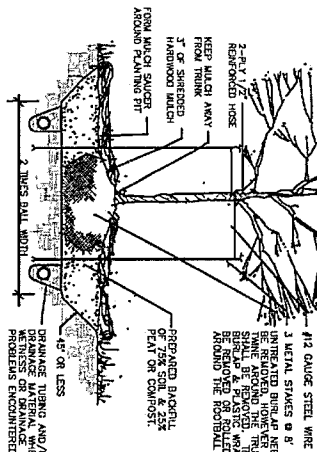
MATERIALS LIST:

QTY	ITEM	DESCRIPTION
3 C.Y.	Mulch	Shredded Hardwood Bark
41 S.Y.	Seed & Blanket	Compost (Mulchroom s. Yard Waste)
41 S.Y.	Seed & Blanket	100% Seed (Mulchroom s. Yard Waste)
41 S.Y.	Seed & Blanket	NMS 575 Straw Blanket (or equal)



SHRUBS

NOTE: REMOVAL OF EXISTING TREES NOT REQUIRED UNLESS TREE WILL NOT REMAIN PLUMB. THINK OF TREE SHALL BE SECURE W/ 1/2" WIRE. DO NOT STAKE INTO ROOTBALL.



DECIDUOUS TREE

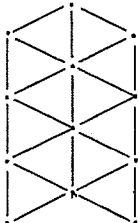
PERENNIALS & ORN. GRASSES SHALL BE TOPRESSED WITH 2" OF SHREDDED HARDWOOD MULCH. PERENNIALS & ANNUALS OF MULCHROOM COMPOST.

PLANTING SOIL: MIN. OF MULCHROOM COMPOST SHOULD BE APPLIED TO A DEPTH OF 5". DO NOT COMPACT UNNECESSARILY AFTER PLANTING. APPLY 18-4-12 OSMOCOTE (270 DAY) AND 18-4-12 OSMOCOTE (270 DAY) GROUNDCOVER & PERENNIAL BEDS & 14-14-14 OSMOCOTE (120 DAY) ANNUAL BEDS PER WFS. RECOMMENDATIONS.



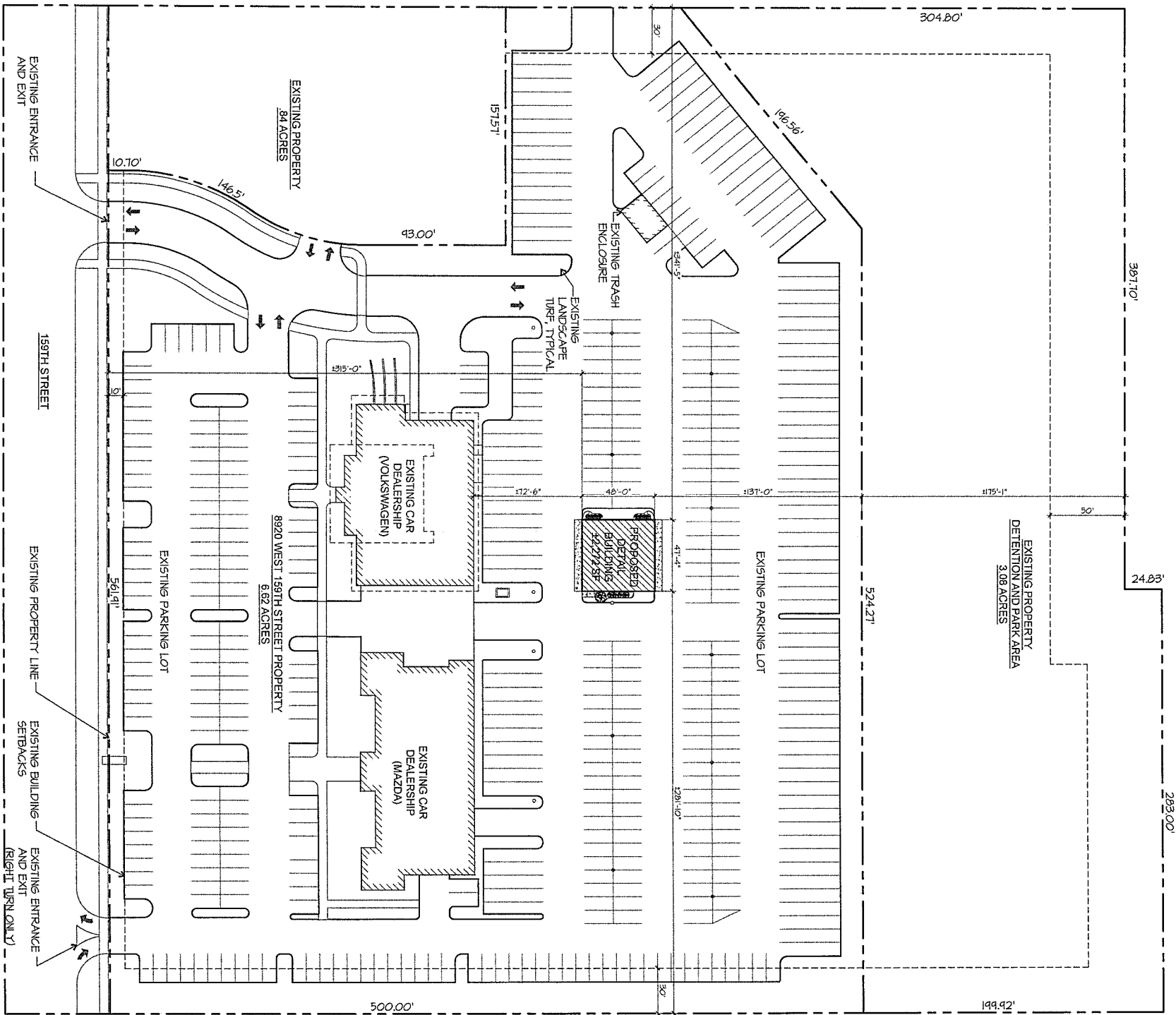
ALL BED PLANTINGS SHALL BE INSTALLED WITH TRIANGULAR SPACING.

SEE SPECIFIC SPACING DIMENSION ON DRAWINGS.



CERTAIN PLANT SPECIES MAY REQUIRE OTHER PLANTING DEPTHS. CONSULT BURL DISTRIBUTOR FOR PRECISE DEPTHS.

BED PLANTING DETAIL
(PERENNIALS, ORNAMENTAL GRASSES, VINES, GROUNDCOVERS & ANNUALS)



SITE DATA			
ADDRESS:	8420 W 159TH STREET, ORLAND PARK, ILLINOIS		
TOTAL LOT:	EXISTING	PROPOSED	DIFFERENCE
BUILDING COVERAGE:	228,841 SF	228,841 SF	NO CHANGE
BUILDING COVERAGE RATIO	233.40 SF	25,612 SF	+2,272 SF
	8.1%	8.1%	+0.2%
PARKING ON LOT:	42 SPACES	42 SPACES	NO CHANGE
DISPLAY PARKING	512 SPACES	512 SPACES	NO CHANGE
SERVICE PARKING	141 SPACES	141 SPACES	NO CHANGE
TOTAL PARKING	596 SPACES	592 SPACES	-4 SPACES
SITE COVERAGE AREA:	N/A	592 SPACES	-4 SPACES
FLOOR AREA RATIO:	18.360 SF	18.360 SF	NO CHANGE
BUILDING 1 (VW)	24,150 SF	24,150 SF	NO CHANGE
BUILDING 2 (MAZDA)	2,272 SF	2,272 SF	NO CHANGE
BUILDING 3	12,910 SF	4,182 SF	-8,728 SF
TOTAL AREA	12,910 SF	4,182 SF	-8,728 SF
TOTAL AREA	0.15	0.16	+0.01



PRELIMINARY OVERALL SITE PLAN



LINDENGROUP

ARCHITECTURE
LAND PLANNING
INTERIOR ARCHITECTURE
LANDSCAPE ARCHITECTURE
10100 ORLAND PARKWAY SUITE 110
ORLAND PARK, ILLINOIS 60467
WWW.LINDENGROUP.COM



New Detail Building for:
**VOLKSWAGEN
of ORLAND PARK**
8920 West 159th. Street
Orland Park, Illinois 60462

DRAWN DESCRIPTION
ISSUED FOR PRELIMINARY REVIEW
REVISIONS #1

DATE
11-17-2017
02-05-2018

PROJECT NUMBER
2017-0036

FILE NUMBER
2-5-2018

DATE
2-5-2018

DESIGNER
C.T.

DEPARTMENT
DESIGN

FINAL REVIEW

DESIGNED BY: JEFFREY H. MC
ALL RIGHTS RESERVED.

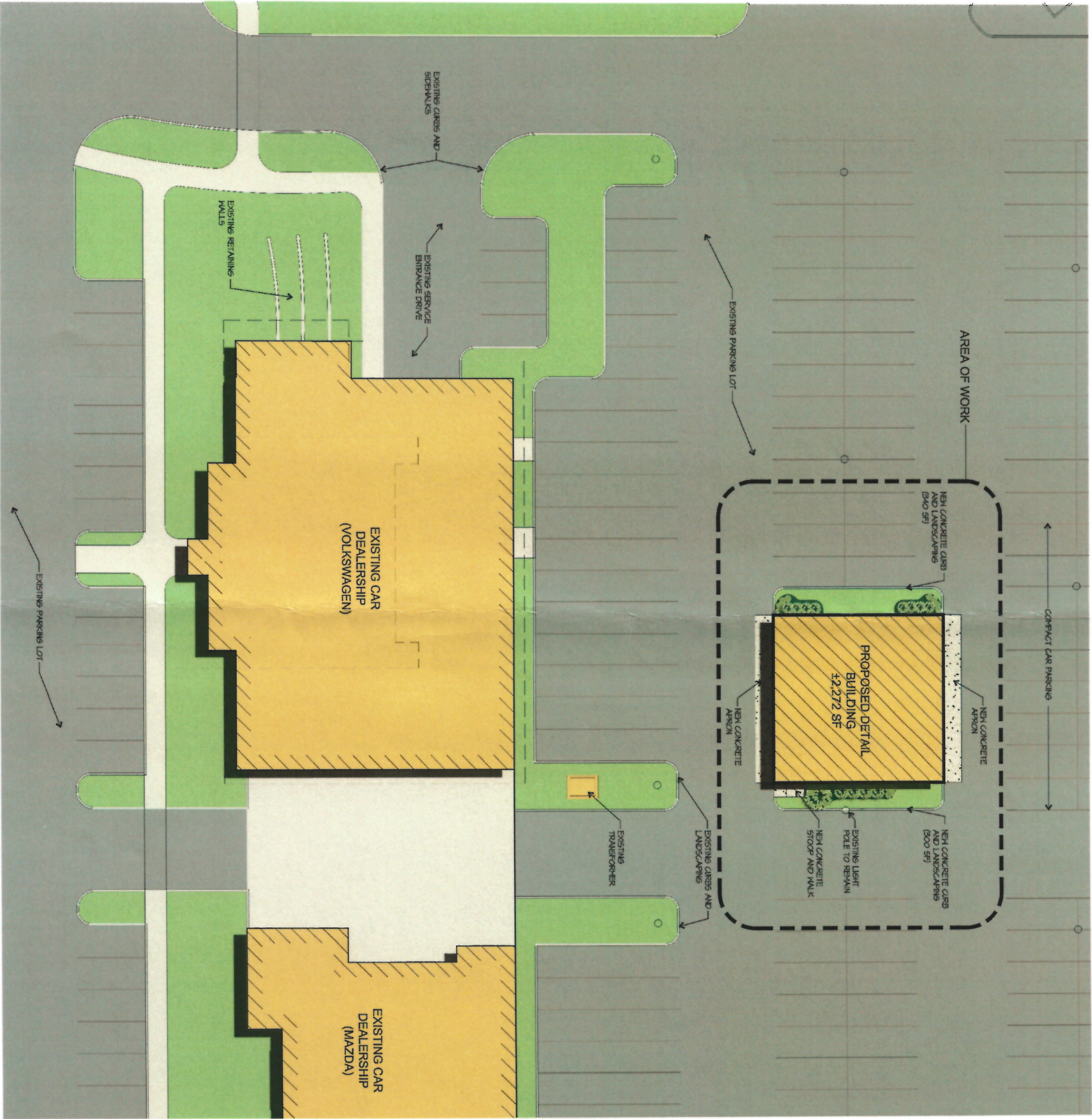
THIS DOCUMENT IS THE PROPERTY OF LINDEN GROUP, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF LINDEN GROUP, INC.

PRELIMINARY
OVERALL SITE PLAN

SHEET NAME

A-1.0

SHEET 1 OF 5



ARCHITECTURAL SITE PLAN
SCALE 1/16" = 1'-0"



ARCHITECTURE
LAND PLANNING
INTERIOR ARCHITECTURE
LANDSCAPE ARCHITECTURE
10100 GRAND PARKWAY, SUITE 100
ORLAND PARK, ILLINOIS 60462
WWW.LINDENGROUP.COM



New Detail Building for:
**VOLKSWAGEN
of ORLAND PARK**
8920 West 159th. Street
Orland Park, Illinois 60462

DATE
DRAWN DESCRIPTION

2017-0036
PROJECT NUMBER

11-17-2017
DATE
Q
DRAWN BY

FINAL REVIEW
COPYRIGHT LINDEN GROUP, INC.
ALL RIGHTS RESERVED.
THIS DOCUMENT IS THE PROPERTY OF LINDEN GROUP, INC.
AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM
WITHOUT THE WRITTEN PERMISSION OF LINDEN GROUP, INC.
LINDEN GROUP, INC., 10100 GRAND PARKWAY, SUITE 100
ORLAND PARK, ILLINOIS 60462

ARCHITECTURAL SITE
PLAN

SHEET NAME
A-1.1
SHEET 2 of 5



WWW.BUNDESGROUPEINC.COM

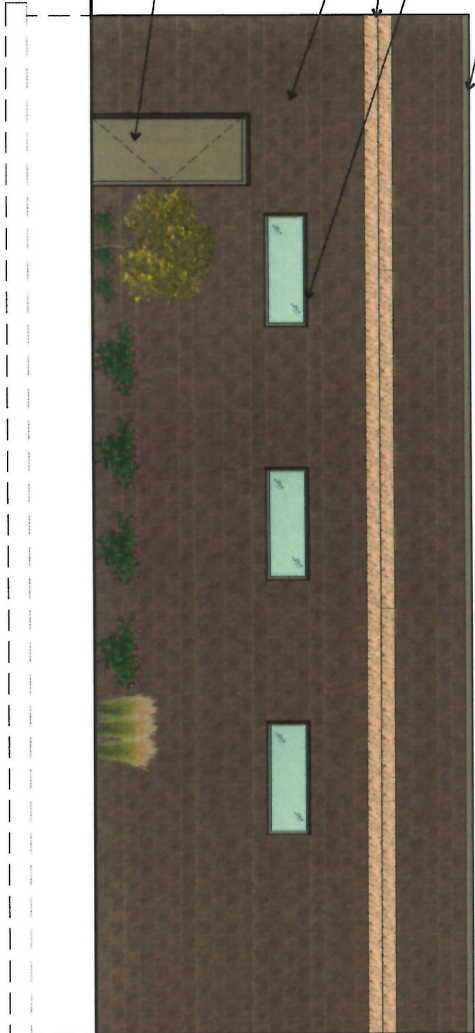
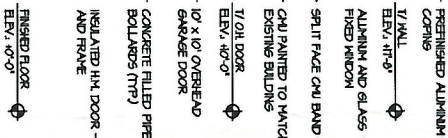


VOLKSWAGEN
of ORLAND PARK
8920 West 159th. Street
Orland Park, Illinois 60462

8920 West 159th. Street
Orland Park, Illinois 60462

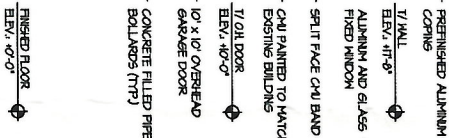
0 20 40 60

SCALE 1/4" = 1'-0"



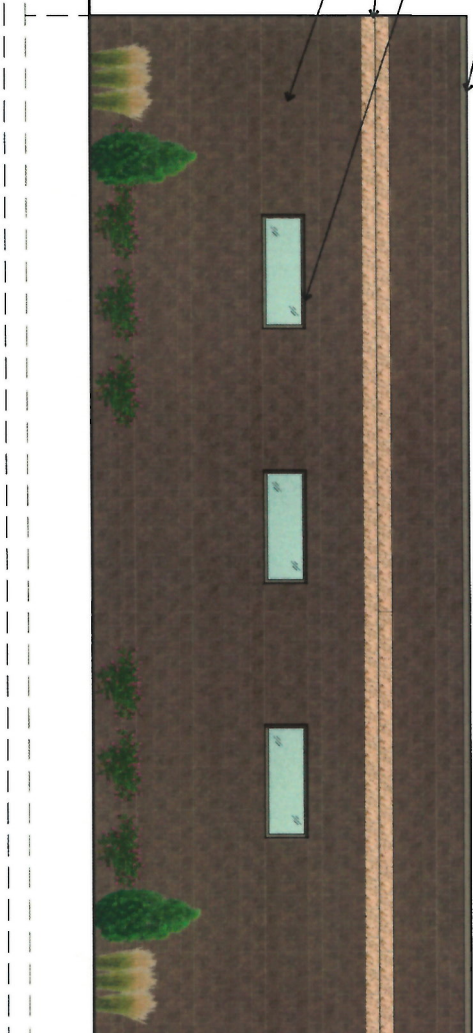
0 20' 40' 80'

SCALE 1/4" = 1'-0"



0 70 80

SCALE: 1/2" = 1'-0"



A-4.0
SHEET
SHEET 4 OF 5

4 5
S-H-E-I C+

DAI

PROJECT NUMBER
Z017-0036

PFF NUMBER

DATE _____

D3A5VBY

FINAL REPORT

COPYRIGHT - 1999 BY C. R. R. & CO. INC.
ALL RIGHTS RESERVED

PROPOSED EXTERIOR ELEVATIONS

Pharmaceutical Research and Development

