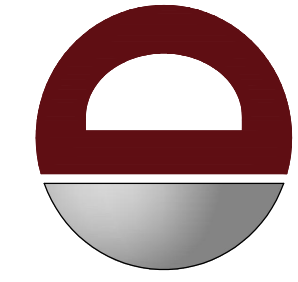
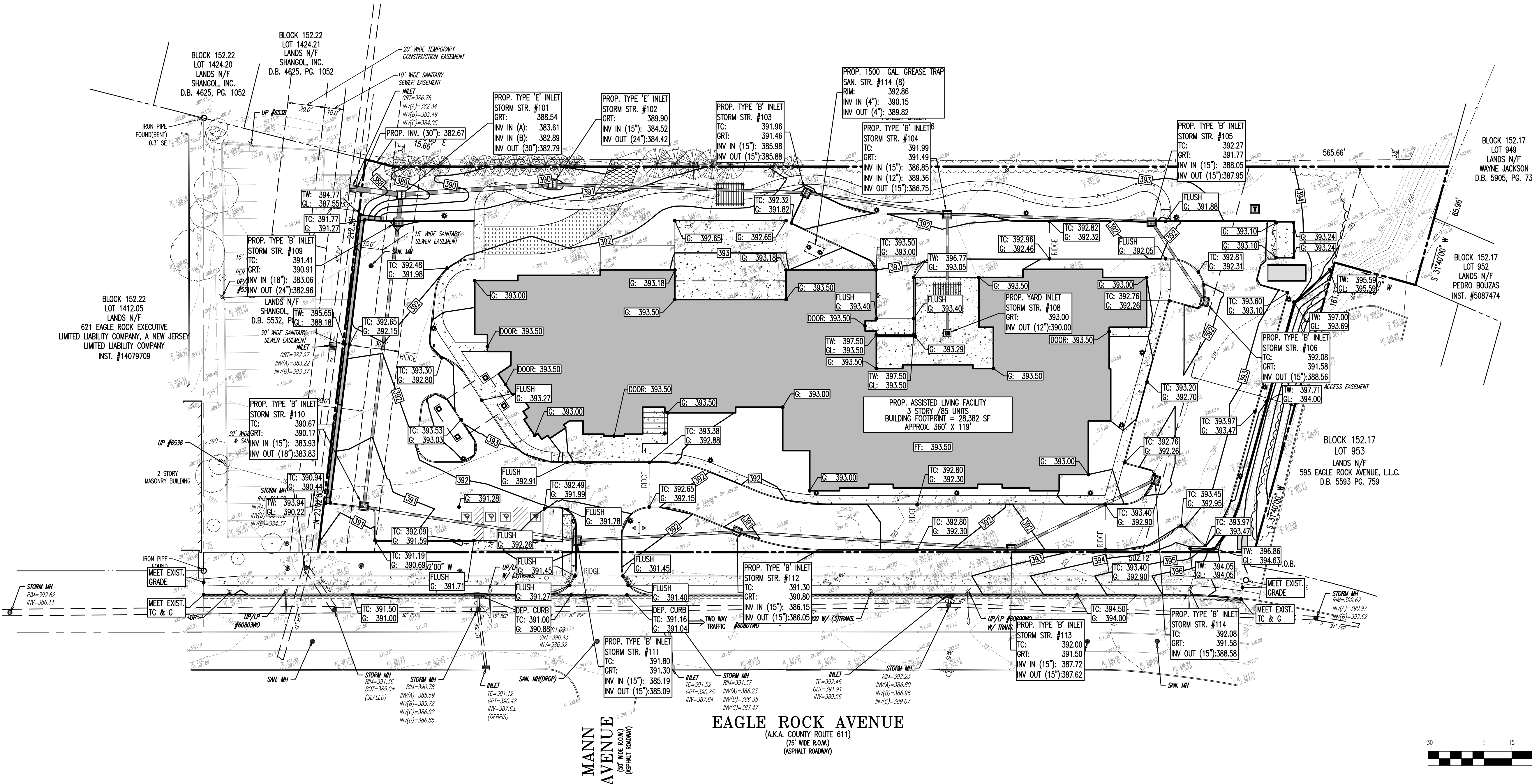
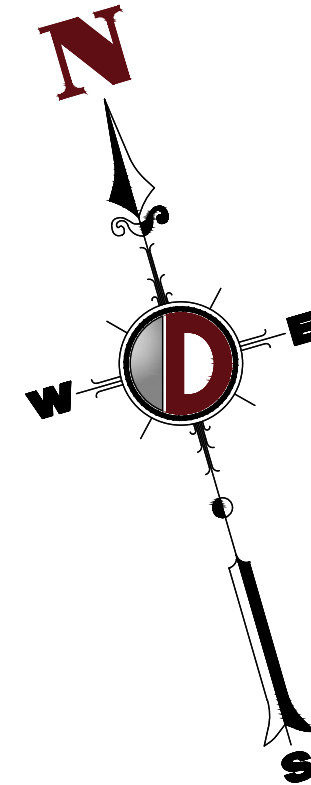


GRADING NOTES

- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT REFERENCED IN THIS PLAN SET. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND REPLACING ALL SOFT, YIELDING OR UNSUITABLE MATERIALS AND REPLACING WITH SUITABLE MATERIALS AS SPECIFIED IN THE SOILS REPORT. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM TEST D-1557. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 3% BELOW OPTIMUM. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED SOILS ENGINEER, REGISTERED WITH THE STATE, WHERE THE WORK IS PERFORMED. THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECS AND THE RECOMMENDATIONS SET FORTH IN THE SOILS REPORT.
- CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO ENSURE 0.75% MIN. SLOPE AGAINST ALL ISLAND, GUTTERS, CURBS AND 1.0% ON ALL CONCRETE SURFACES, AND 1-1/2% MIN. ON ASPHALT, TO PREVENT PONDING. ANY DISCREPANCIES THAT MAY EFFECT THE PUBLIC SAFETY OR PROJECT COST, MUST BE IDENTIFIED TO THE ENGINEER IN WRITING IMMEDIATELY. PROCEEDING WITH CONSTRUCTION WITH DESIGN DISCREPANCIES IS DONE SO AT THE CONTRACTOR'S OWN RISK.
- PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 6" ABOVE EXISTING LOCAL ASPHALT GRADE UNLESS OTHERWISE NOTED. FIELD ADJUST TO CREATE A MIN. OF 0.75% GUTTER GRADE ALONG CURB FACE. ENGINEER TO APPROVE FINAL CURBING OUT SHEETS PRIOR TO INSTALLATION.
- SUBBASE MATERIAL FOR SIDEWALKS, CURB, OR ASPHALT SHALL BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBBASE BE DEEMED UNSUITABLE, SUBBASE IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL COMPACTED TO 95% OPTIMUM DENSITY (AS DETERMINED BY MODIFIED PROCTOR METHOD).
- REFER TO SITE PLAN FOR ADDITIONAL NOTES.
- IN CASE OF DISCREPANCIES BETWEEN PLANS, THE SITE PLAN WILL SUPERCEDE IN ALL CASES. CONTRACTOR MUST NOTIFY ENGINEER OF RECORD OF ANY CONFLICT IMMEDIATELY.
- MAXIMUM CROSS SLOPE OF 2% ON ALL SIDEWALKS.
- CONTRACTOR TO ENSURE A MAXIMUM OF 2% SLOPE IN ALL DIRECTIONS IN ADA PARKING SPACES AND ADA ACCESS AISLES. CONTRACTOR TO ENSURE A MAXIMUM OF 3% RUNNING SLOPE AND 2% CROSS SLOPE ALONG ALL OTHER PORTIONS OF ACCESSIBLE ROUTE, WITH THE EXCEPTION OF RAMPS AND CURB RAMPS. CONTRACTOR SHALL CLARIFY ANY QUESTIONS CONCERNING CONSTRUCTION IN ADA AREAS WITH THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- THE OWNER SHALL RETAIN DYNAMIC EARTH, LLC (908-879-7095) OR ALTERNATE QUALIFIED GEOTECHNICAL ENGINEER TO TEST SOIL PERMEABILITY AND PROVIDE CONSTRUCTION PHASE INSPECTIONS OF THE BASIN BOTTOM SOILS AND ANY FILL MATERIALS WITHIN ANY PROPOSED INFILTRATION OR RETENTION BASIN TO COMPARE RESULTS TO DESIGN CRITERIA.
- CONTRACTOR IS TO REMOVE EXISTING UNSUITABLE OR OVERLY COMPACT SOIL OR ROCK AS NEEDED TO ACHIEVE REQUIRED PERMEABILITY AS DIRECTED BY THE OWNERS GEOTECHNICAL ENGINEER, AND NEW FILL, IF NEEDED, SHALL HAVE AN IN PLACE PERMEABILITY GREATER THAN OR EQUAL TO THE DESIGN CRITERIA.
- CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE OWNER'S GEOTECHNICAL ENGINEER PRIOR TO ONSET OF CONSTRUCTION TO SUBMIT AND CONFIRM THE CONTRACTOR'S PROPOSED MEANS AND MATERIALS AND TO SCHEDULE INSPECTIONS FOR BOTTOM OF BASIN, REMOVAL OF UNSUITABLE SOIL, FILL PLACEMENT, AND FINAL BASIN PERMEABILITY TESTING.
- THE CONTRACTOR IS RESPONSIBLE FOR AS-BUILT PLANS AND GRADE CONTROL UNLESS DEFINED OTHERWISE ELSEWHERE IN THE CONTRACT DOCUMENTS.

GRADING/UTILITY GRAPHIC LEGEND

---	---	PROPERTY LINE (PARCEL IN QUESTION)	---	---
---	---	OFF-SITE PROPERTY LINES	---	---
---	---	EXIST. CABLE LINE	---	---
---	---	PROP. CABLE LINE	---	---
---	---	EXIST. ELECTRIC LINE	---	---
---	---	PROP. ELECTRIC LINE	---	---
---	---	EXIST. FIBER OPTIC LINE	---	---
---	---	PROP. FIBER OPTIC LINE	---	---
---	---	EXIST. GAS LINE	---	---
---	---	PROP. GAS LINE	---	---
---	---	EXIST. OVERHEAD WIRES	---	---
---	---	PROP. OVERHEAD WIRES	---	---
---	---	EXIST. TELEPHONE LINE	---	---
---	---	PROP. TELEPHONE LINE	---	---
---	---	EXIST. UNDERGROUND ELEC./TELE. SERVICE (NO. & SIZE OF CONDUITS NOT DEFINED)	---	---
---	---	PROP. UNDERGROUND ELEC./TELE. SERVICE (NO. & SIZE OF CONDUITS NOT DEFINED)	---	---
---	---	EXIST. WATER LINE	---	---
---	---	PROP. WATER LINE	---	---
---	---	EXIST. SANITARY SEWER LINE	---	---
---	---	PROP. SANITARY SEWER LINE	---	---
---	---	EXIST. STORM DRAIN LINE	---	---
---	---	PROP. STORM DRAIN LINE	---	---
---	---	EXIST. MINOR CONTOUR & ELEVATION	---	---
---	---	EXIST. MAJOR CONTOUR & ELEVATION	---	---
---	---	PROP. FINISH GRADE CONTOUR & ELEVATION	---	---
---	---	EXIST. MONITORING WELL	---	---
---	---	APPROX. TEST PIT LOCATION	---	---
---	---	EXIST. SPOT ELEVATIONS	---	---
---	---	EXIST. GUTTER ELEV.	---	---
---	---	EXIST. TOP OF CURB ELEV.	---	---
---	---	EXIST. FINISH FLOOR ELEV.	---	---
---	---	EXIST. GARAGE FLOOR ELEV.	---	---
---	---	EXIST. FIRE HYDRANT	---	---
---	---	EXIST. WATER VALVE	---	---
---	---	EXIST. GAS VALVE	---	---
---	---	EXIST. GAS METER	---	---
---	---	EXIST. ELECTRIC METER	---	---
---	---	EXIST. CLEAN OUT	---	---
---	---	EXIST. WELL	---	---
---	---	EXIST. WATER SHUT OFF VALVE	---	---
---	---	EXIST. TELEPHONE BOX	---	---
---	---	EXIST. CABLE TV BOX	---	---
---	---	EXIST. UTILITY POLE	---	---
---	---	EXIST. GUY WIRE	---	---
---	---	EXIST. LIGHT POLE	---	---
---	---	EXIST. BUILDING LIGHT	---	---
---	---	EXIST. SHOE BOX LIGHT	---	---
---	---	EXIST. COBRA LIGHT POLE	---	---
---	---	EXIST. TRAFFIC SIGNAL POLE	---	---
---	---	EXIST. MANHOLE	---	---
---	---	EXIST. "A" INLET	---	---
---	---	EXIST. "B" INLET	---	---
---	---	EXIST. "C" INLET	---	---
---	---	EXIST. YARD INLET	---	---
---	---	EXIST. FLARED END SECTION	---	---
---	---	EXIST. HEADWALL	---	---



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DESIGNED BY: DTS
CHECKED BY: DTS
DRAWN BY: JDC
DRL

PROJECT: CSH DEVELOPMENT, LLC
PROPOSED ASSISTED LIVING FACILITY
BLOCK 152.22, LOT 1412.01
600 EAGLE ROCK AVENUE (CR-611)
TOWNSHIP OF WEST ORANGE, ESSEX COUNTY, NEW JERSEY



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PROFESSIONAL ENGINEER
NEW JERSEY LICENSE No. 53572

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NEW JERSEY LICENSE No. 36618

TITLE:
GRADING PLAN

SCALE: (H) 1" = 30'
(V) 1" = 10'
PROJECT No:
1423--99--005

SHEET No:
5
Rev. #:
OF 13

