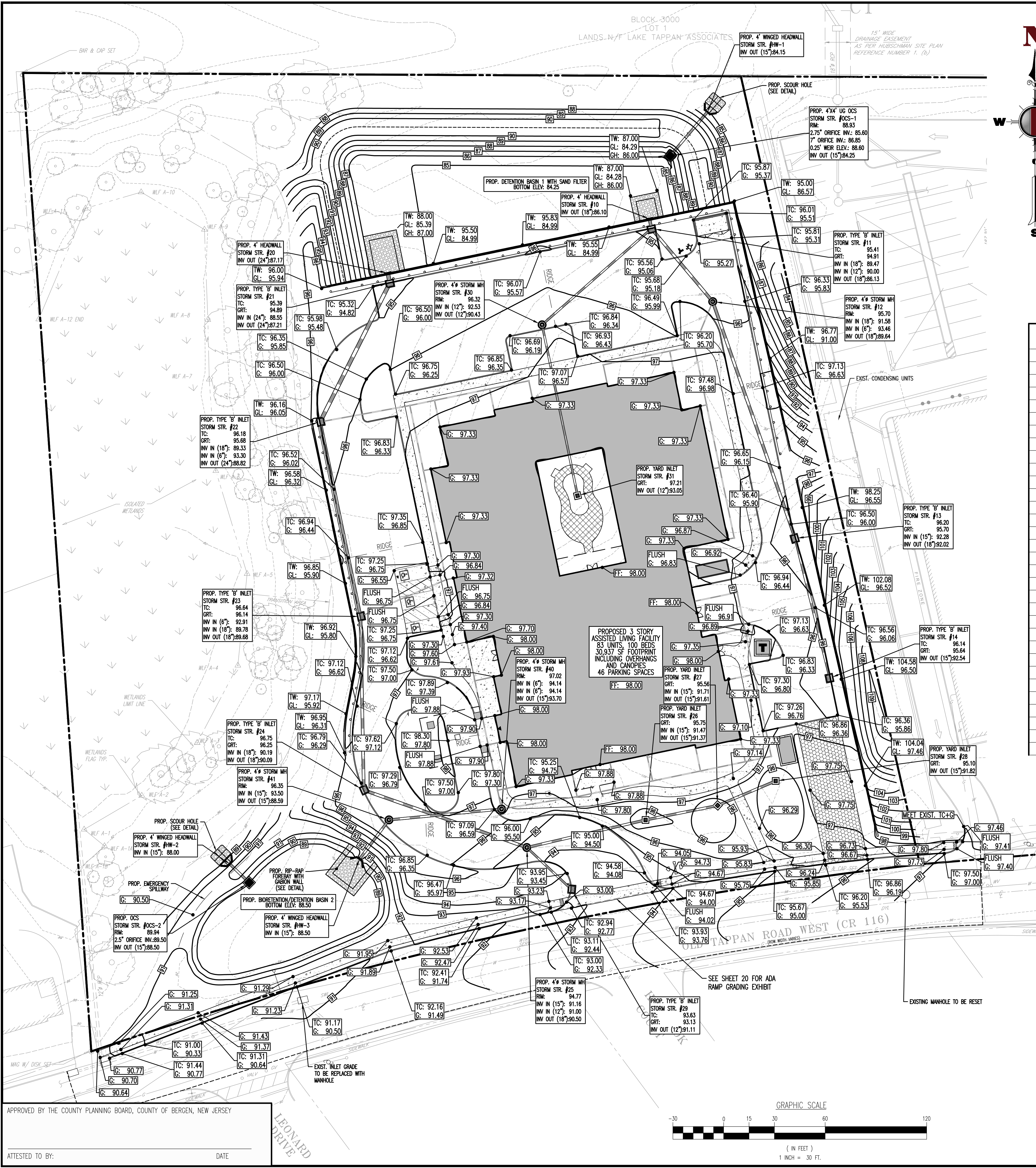




GRADING NOTES

- 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 A.S.T.M. TEST D-1557. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE OR 2% BELOW OPTIMUM. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED SOILS ENGINEER, REGISTERED WITHIN THE STATE WHERE THE WORK IS PERFORMED, VERIFYING 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 AFFECT THE PUBLIC SAFETY OR PROJECT COSTS, 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 CUT 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 5% RUNNING SLOPE AND 2% CROSS SLOPE ALONG ALL OTHER PORTIONS OF ACCESSIBLE ROUTE, WITH THE EXCEPTION OF RAMPS AND CURB RAMPS. CONTRACTOR SHALL CLIMB ANY QUESTIONS CONCERNING CONSTRUCTION IN ADA AREAS WITH THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- THE OWNER SHALL RETAIN DYNAMIC, EARTH, LLC (908-879-7295), OR AN ALTERNATE QUALIFIED GEOTECHNICAL ENGINEER TO TEST SOIL PERMEABILITY AND PROVIDE CONSTRUCTION PHASE INSPECTIONS OF THE BASIN BOTTOMS, SOILS, AND ANY FILL MATERIALS WITHIN ANY PROPOSED RETENTION OR DETENTION 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 METHODS 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.

EXISTING AND PROPOSED AVERAGE GRADE TABLE

Station	Existing Elevation	Proposed Elevation
0+00.00	102.37	97.33
0+10.00	102.67	97.53
0+20.00	102.87	97.73
0+30.00	103.30	97.92
0+33.86	103.41	98.00
0+36.36	103.47	98.00
0+40.00	103.59	98.00
0+50.00	103.85	98.00
0+60.00	104.07	97.99
0+70.00	107.47	97.96
0+80.00	108.42	97.73
0+90.00	108.35	97.60
1+00.00	109.66	97.47
1+10.06	110.00	97.33
1+12.86	110.00	97.33
1+13.73	110.00	97.33
1+13.78	110.00	97.33
1+20.00	110.00	97.33
1+30.00	110.00	97.33
1+39.87	110.00	97.33
1+50.00	110.00	97.33
1+60.00	110.00	97.33
1+70.00	110.00	97.33
1+75.60	110.00	97.33
1+77.60	110.00	97.33
1+80.00	110.00	97.33
1+80.00	109.48	97.90
1+92.24	109.23	96.00
1+98.24	108.66	96.00
2+00.00	108.49	96.00
2+05.32	107.97	96.00
2+10.00	108.23	96.00

2+13.32	108.41	98.00
2+20.00	107.85	98.00
2+30.00	106.20	98.00
2+32.29	105.83	98.00
2+38.29	104.87	98.00
2+40.00	104.59	98.00
2+43.86	103.41	98.00
2+46.36	103.47	98.00
2+46.85	99.74	97.33
2+49.00	99.85	97.33
2+49.00	99.47	97.33
2+49.00	98.74	97.33
2+53.60	98.65	97.33
3+00.00	97.28	97.33
3+10.00	96.16	97.33
3+20.00	95.53	97.33
3+30.00	95.15	97.33
3+40.00	94.98	97.33
3+40.00	94.28	97.33
3+40.00	93.50	97.33
3+70.00	92.84	97.33
3+73.91	92.30	97.33
3+80.00	93.10	97.33
3+85.06	93.33	97.33
3+80.00	92.84	97.33
4+00.00	92.20	97.33
4+07.87	91.94	97.33
4+10.00	91.98	97.33
4+20.00	91.16	97.33
4+30.00	89.63	97.33
4+40.00	87.76	97.33
4+47.62	86.04	97.33
4+49.62	86.00	97.33
4+60.00	86.00	97.33

4+70.00	86.00	97.33
4+80.00	86.00	97.33
4+90.00	86.00	97.33
5+00.00	86.00	97.33
5+10.00	86.00	97.33
5+20.28	87.71	97.33
5+10.00	86.80	97.33
5+30.00	88.09	97.33
5+40.00	89.47	97.33
5+50.00	90.85	97.33
5+57.03	91.87	97.33
5+60.00	91.69	97.33
5+70.00	91.09	97.33
5+80.21	90.61	97.33
5+90.54	91.93	97.33
6+00.00	91.57	97.33
6+10.00	91.21	97.33
6+20.00	91.11	97.33
6+30.00	91.42	97.33
6+34.81	91.56	97.33
6+36.81	91.31	97.33
6+40.00	91.40	97.33
6+50.00	91.69	97.33
6+58.38	91.94	97.33
6+60.37	92.05	97.33
6+70.00	93.23	97.33
6+80.00	95.47	97.33
6+90.00	96.36	97.33
6+98.89	96.85	97.33
7+00.00	99.96	97.33
7+10.00	101.73	97.33
7+14.89	101.77	97.33

7+20.00	102.05	97.33
7+30.00	102.28	97.33
7+38.22	102.51	97.33
7+40.00	102.46	97.33
7+42.87	102.40	97.33
7+50.00	102.56	97.33
7+60.00	102.62	97.33
7+65.52	102.82	98.00
7+69.52	102.50	98.00
7+80.00	102.50	98.00
7+85.80	102.50	98.00
7+89.60	102.62	98.00
7+90.00	102.55	97.75
8+10.00	102.45	97.50
8+17.04	102.37	97.33
Average	98.84	97.50

BUILDING HEIGHT CALCULATION

TOTAL BUILDING HEIGHT = (FINISHED FLOOR ELEVATION - LOWER OF THE EXISTING OR PROPOSED AVERAGE GRADE CALCULATION) + BUILDING HEIGHT FROM FINISHED FLOOR ELEVATION

THEFORE:
(98.00 - 97.50) + 3'4" = 3'4.50"

GRADING/UTILITY GRAPHIC LEGEND

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

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ENGINEERING
• SURVEY • EARTH
• SURVEY • TRAFFIC

TO	39/26/22	REVISED PER ENGINEERING COMMENTS	GL	42	BY
9	39/30/22	REVISED PER BOROUGH COMMENTS	GL	42	
8	37/11/22	REVISED PER BOROUGH COMMENTS	GL	42	
7	36/15/22	REVISED PER BOROUGH COMMENTS	GL	42	
6	35/02/22	REVISED PER BOROUGH & SCD COMMENTS	GL	42	
5	33/16/22	NEW REV PER BOROUGH COMMENTS	GL	42	
4	32/01/22	REVISED PER SCD COMMENTS	GL	42	
3	12/20/21	REVISED PER UPDATED LAYOUT	GL	42	
2	09/10/21	REVISED PER SCD & COUNTY COMMENTS	GL	42	
1	07/29/21	REVISED PER SCD & COUNTY COMMENTS	GL	42	
REV.	DATE	COMMENTS			

THIS PLAN SET IS FOR PERMITTING PURPOSES ONLY AND MAY NOT BE USED FOR CONSTRUCTION

DRAWN BY: KHC
CHECKED BY: KHC
DESIGNED BY: KHC/DRL
DATE: DTS

PROJECT: **CSH OLD TAPPAN, LLC**
PROPOSED ASSISTED LIVING FACILITY
BLOCK 1606, LOT 3
244 OLD TAPPAN ROAD
BOROUGH OF OLD TAPPAN, BERGEN COUNTY, NEW JERSEY

811
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Austin, Texas • 1.512.644.0400
Del Rio, Texas • 1.512.971.8570

DANIEL T. SEHNAL
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. 53572

JOSEPH G. JAWORSKI
PROFESSIONAL ENGINEER
NEW JERSEY LICENSE NO. 36618

TITLE: **GRADING PLAN**

SCALE: (H) 1"=30'
(V) 1"=10'

DATE: 05/18/2021

PROJECT No: 1423-99-006

SHEET No: **6**

Rev. #: 10

OF 20