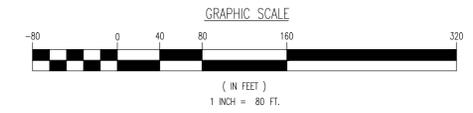
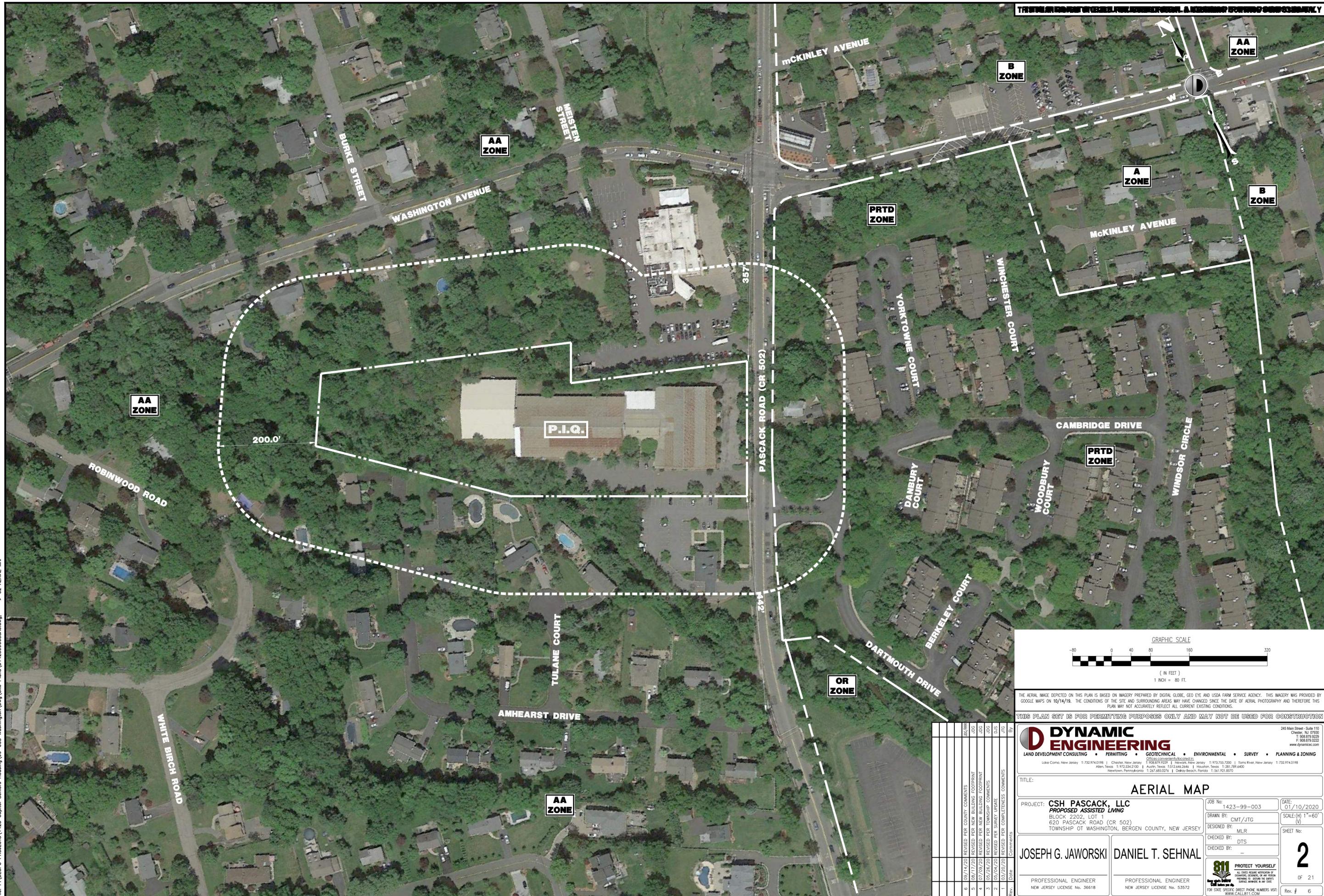




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THE AERIAL IMAGE DEPICTED ON THIS PLAN IS BASED ON IMAGERY PREPARED BY DIGITAL GLOBE, GEO EYE AND USDA FARM SERVICE AGENCY. THIS IMAGERY WAS PROVIDED BY GOOGLE MAPS ON 10/14/19. THE CONDITIONS OF THE SITE AND SURROUNDING AREAS MAY HAVE CHANGED SINCE THE DATE OF AERIAL PHOTOGRAPHY AND THEREFORE THIS PLAN MAY NOT ACCURATELY REFLECT ALL CURRENT EXISTING CONDITIONS.

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TITLE: **AERIAL MAP**

PROJECT: **CSH PASCACK, LLC  
 PROPOSED ASSISTED LIVING**  
 BLOCK 2202, LOT 1  
 620 PASCACK ROAD (CR 502)  
 TOWNSHIP OF WASHINGTON, BERGEN COUNTY, NEW JERSEY

JOB No: 1423-99-003 DATE: 01/10/2020  
 DRAWN BY: CMT/JTG SCALE: (H) 1"=60' (V)  
 DESIGNED BY: MLR SHEET No:  
 CHECKED BY: DTS  
 CHECKED BY: -

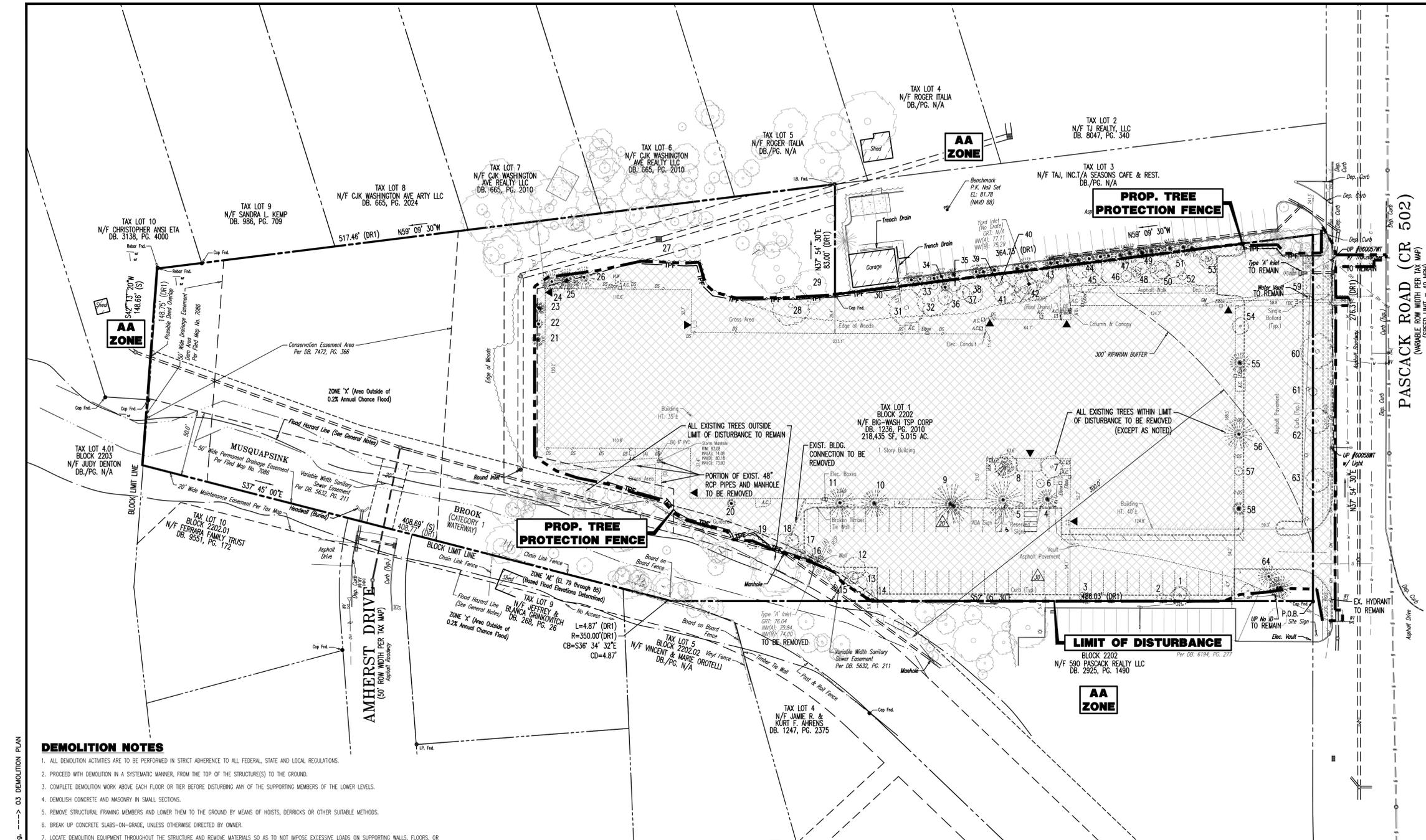
**JOSEPH G. JAWORSKI** **DANIEL T. SEHNAL**  
 PROFESSIONAL ENGINEER PROFESSIONAL ENGINEER  
 NEW JERSEY LICENSE No. 36618 NEW JERSEY LICENSE No. 53572

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Rev. # 6

Rev.	Date	Comments	By
1	02/20/20	REVISED PER COMPLETENESS COMMENTS	JTG
2	05/04/20	REVISED PER SURVEY UPDATE	DJS
3	05/26/20	REVISED PER TOWNSHIP COMMENTS	JTG
4	07/09/20	REVISED PER NEW BUILDING FOOTPRINT	JDG
5	08/17/20	REVISED PER NEW BUILDING FOOTPRINT	JDG
6	09/14/20	REVISED PER COUNTY COMMENTS	JDG/RRR

Plotted: 09/14/20 - 9:38 AM, By: russell, Product Ver: 23.1a (LMS Tech)  
 File: P:\VEPC PROJECTS\1423 Capitol Seniors Housing\99-003 Washington\DWG\Site Plans\142399003SAG.dwg, ---> 02 AERIAL MAP



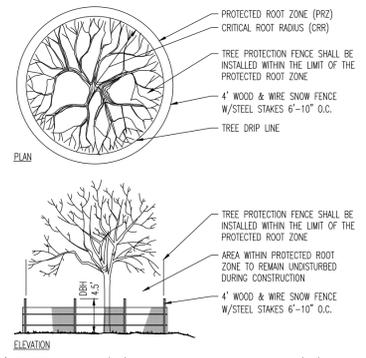
Tree #	Species	Common Name	DBH	Condition	Replacement #	Comments
1	Ulmus pumila	Siberian Elm	14"	OK	2	Invasive species
2	Acer platanoides	Norway Maple	7"	Dead	0	Invasive species
3	Acer platanoides	Norway Maple	8"	OK	2	Invasive species
4	Prunus strobus	Eastern White Pine	14"	OK	2	Invasive species
5	Prunus strobus	Eastern White Pine	26"	OK	2	
6	Acer p. 'Bloodgood'	Japanese Maple	6"	OK	2	
7	Gleditsia tracanthus Inermis	Thornless Honey Locust	16"	OK	2	
8	Gleditsia tracanthus Inermis	Thornless Honey Locust	17"	OK	2	
9	Prunus strobus	Eastern White Pine	28"	OK	2	
10	Prunus strobus	Eastern White Pine	19"	OK	2	
11	Prunus strobus	Eastern White Pine	21"	OK	2	
12	Populus sp.	Poplar	16"	OK	2	
13	Acer platanoides	Norway Maple	14"	Poor	0	Invasive species
14	Fraxinus sp.	Ash	8"	OK	2	
15	Prunus strobus	Eastern White Pine	9"	Poor	0	Falling over
16	Prunus strobus	Eastern White Pine	10"	OK	2	
17	Dead tree		12"	Dead	0	
18	Acer platanoides	Norway Maple	10"	OK	2	Invasive species
19	Dead tree		14"	Dead	0	
20	Prunus strobus	Eastern White Pine	6"	OK	2	
21	Tsuga canadensis	Canadian Hemlock	9"	OK	2	
22	Tsuga canadensis	Canadian Hemlock	6"	OK	2	
23	Tsuga canadensis	Canadian Hemlock	8"	OK	2	
24	Prunus strobus	Eastern White Pine	15"	OK	2	
25	Prunus strobus	Eastern White Pine	15"	OK	2	
26	Prunus strobus	Eastern White Pine	15"	OK	2	
27	Acer platanoides	Norway Maple	10"	Poor	0	Invasive species
28	Quercus palustris	Pin Oak	28"	OK	2	
29	Quercus palustris	Pin Oak	25"	OK	2	
30	Ulmus pumila	Siberian Elm	14"	OK	2	Invasive species
31	Acer saccharinum	Silver Maple	26"	OK	2	Invasive species
32	Acer saccharinum	Silver Maple	24"	Poor	0	Falling over
33	Acer saccharinum	Silver Maple	6"	OK	2	Invasive species
34	Prunus strobus	Eastern White Pine	6"	Poor	0	Falling over
35	Acer saccharinum	Silver Maple	9"	OK	2	Invasive species
36	Acer saccharinum	Silver Maple	11"	OK	2	Invasive species
37	Acer saccharinum	Silver Maple	10"	OK	2	Invasive species
38	Acer saccharinum	Silver Maple	15"	Dead	0	Invasive species
39	Acer saccharinum	Silver Maple	9"	OK	2	Invasive species
40	Acer saccharinum	Silver Maple	15"	OK	2	Invasive species
41	Acer saccharinum	Sugar Maple	16"	OK	2	
42	Acer platanoides	Norway Maple	17"	OK	2	Invasive species
43	Ulmus pumila	Siberian Elm	22"	Leaning	0	Invasive species
44	Ulmus pumila	Siberian Elm	18"	OK	2	Invasive species
45	Ulmus pumila	Siberian Elm	27"	OK	2	Invasive species
46	Ulmus pumila	Siberian Elm	8"	OK	2	Invasive species
47	Ulmus pumila	Siberian Elm	7"	OK	2	Invasive species
48	Ulmus pumila	Siberian Elm	9"	OK	2	Invasive species
49	Ulmus pumila	Siberian Elm	6"	OK	2	Invasive species
50	Ulmus pumila	Siberian Elm	14"	OK	2	Invasive species
51	Ulmus pumila	Siberian Elm	15"	OK	2	Invasive species
52	Ulmus pumila	Siberian Elm	6"	OK	2	Invasive species
53	Acer saccharinum	Silver Maple	13"	OK	2	Invasive species
54	Acer platanoides	Norway Maple	12"	OK	2	Invasive species
55	Prunus strobus	Eastern White Pine	14"	OK	2	
56	Prunus strobus	Eastern White Pine	21"	OK	2	
57	Acer platanoides	Norway Maple	6"	OK	2	Invasive species
58	Prunus strobus	Eastern White Pine	9"	OK	2	
59	Acer platanoides	Norway Maple	19"	Poor	0	Pruned in half due to utility pruning
60	Acer platanoides	Norway Maple	25"	Poor	0	Pruned in half due to utility pruning
61	Acer platanoides	Norway Maple	6"	Poor	0	Invasive species
62	Acer platanoides	Norway Maple	18"	Poor	0	Pruned in half due to utility pruning
63	Acer platanoides	Norway Maple	17"	Poor	0	Pruned in half due to utility pruning
64	Prunus strobus	Eastern White Pine	15"	OK	2	

Total Replacement Trees Needed 98

**DEMOLITION NOTES**

- ALL DEMOLITION ACTIVITIES ARE TO BE PERFORMED IN STRICT ADHERENCE TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.
- PROCEED WITH DEMOLITION IN A SYSTEMATIC MANNER, FROM THE TOP OF THE STRUCTURE(S) TO THE GROUND.
- COMPLETE DEMOLITION WORK ABOVE EACH FLOOR OR TIER BEFORE DISTURBING ANY OF THE SUPPORTING MEMBERS OF THE LOWER LEVELS.
- DEMOLISH CONCRETE AND MASONRY IN SMALL SECTIONS.
- REMOVE STRUCTURAL FRAMING MEMBERS AND LOWER THEM TO THE GROUND BY MEANS OF HOISTS, DERRICKS OR OTHER SUITABLE METHODS.
- BREAK UP CONCRETE SLABS-ON-GRADE, UNLESS OTHERWISE DIRECTED BY OWNER.
- LOCATE DEMOLITION EQUIPMENT THROUGHOUT THE STRUCTURE AND REMOVE MATERIALS SO AS NOT TO IMPOSE EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS, OR FRAMING.
- PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING AND SUPPORTS TO PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF STRUCTURES TO BE DEMOLISHED (AND ADJACENT FACILITIES, IF APPLICABLE).
- DEMOLISH AND REMOVE ALL FOUNDATION WALLS, FOOTINGS AND OTHER MATERIALS WITHIN THE AREA OF THE DESIGNATED FUTURE BUILDING. ALL OTHER FOUNDATION SYSTEMS, INCLUDING BASEMENTS, SHALL BE DEMOLISHED TO A DEPTH OF NOT LESS THAN ONE FOOT BELOW PROPOSED PAVEMENT OR BREAK BASEMENT FLOOR SLABS. SEAL ALL OPEN UTILITY LINES WITH CONCRETE. CONTRACTOR TO REVIEW STRUCTURE PRIOR TO DEMOLITION TO DETERMINE IF BASEMENT, CRAWL SPACE OR ANY SUB-STRUCTURE EXISTS. ANY SUB-STRUCTURE, INCLUDING BASEMENTS SHALL BE REMOVED IN ITS ENTIRETY OR AS DIRECTED BY OWNER.
- ERECT AND MAINTAIN COVERED PASSAGEWAYS IN ORDER TO PROVIDE SAFE PASSAGE FOR PERSONS AROUND THE AREA OF DEMOLITION. CONDUCT ALL DEMOLITION OPERATIONS IN A MANNER THAT WILL PREVENT DAMAGE AND PERSONAL INJURY TO STRUCTURES, ADJACENT BUILDINGS AND ALL PERSONS.
- REFRAIN FROM USING ANY EXPLOSIVES WITHOUT PRIOR WRITTEN CONSENT OF OWNER AND APPLICABLE GOVERNMENTAL AUTHORITIES.
- CONDUCT DEMOLITION SERVICES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS AND OTHER ADJACENT FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS OR OTHER OCCUPIED FACILITIES WITHOUT PRIOR WRITTEN PERMISSION OF OWNER AND ANY APPLICABLE GOVERNMENTAL AUTHORITIES. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS, IF REQUIRED BY APPLICABLE GOVERNMENTAL REGULATIONS.
- USE WATERING, TEMPORARY ENCLOSURES AND OTHER SUITABLE METHODS, AS NECESSARY TO LIMIT THE AMOUNT OF DUST AND DIRT RISING AND SCATTERING IN THE AIR. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. RETURN ALL ADJACENT AREAS TO THE CONDITIONS EXISTING PRIOR TO THE START OF WORK.
- ACCOMPLISH AND PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE UNAUTHORIZED ENTRY OF PERSONS AT ANY TIME.
- COMPLETELY FILL BELOW GRADE AREAS AND VOIDS RESULTING FROM THE DEMOLITION OF STRUCTURES AND FOUNDATIONS WITH SOIL MATERIALS IN ACCORDANCE WITH THE GEOLOGICAL REPORT, CONSISTING OF STONE, GRAVEL AND SAND. FREE FROM DEBRIS, TRASH, FROZEN MATERIALS, ROOTS AND OTHER ORGANIC MATTER. STONES USED SHALL NOT BE LARGER THAN 6 INCHES IN DIMENSION. MATERIAL FROM DEMOLITION MAY NOT BE USED AS FILL. PRIOR TO PLACEMENT OF FILL MATERIALS, UNDERTAKE ALL NECESSARY ACTION IN ORDER TO ENSURE THAT AREAS TO BE FILLED ARE FREE OF STANDING WATER, FROST, FROZEN MATERIAL, TRASH, DEBRIS. PLACE FILL MATERIALS IN HORIZONTAL LAYERS NOT EXCEEDING 6 INCHES IN LOOSE DEPTH AND COMPACT EACH LAYER AT PLACEMENT TO 95% OPTIMUM DENSITY. GRADE THE SURFACE TO MEET ADJACENT CONTIGUOUS AND TO PROVIDE SURFACE DRAINAGE.
- REMOVE FROM THE DESIGNATED SITE, AT THE EARLIEST POSSIBLE TIME, ALL DEBRIS, RUBBISH, SALVAGEABLE ITEMS, HAZARDOUS AND COMBUSTIBLE SERVICES, REMOVED MATERIALS MAY NOT BE STORED, SOLD OR BURNED ON THE SITE. REMOVAL OF HAZARDOUS AND COMBUSTIBLE MATERIALS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE PROCEDURES AS AUTHORIZED BY THE FIRE DEPARTMENT OR OTHER APPROPRIATE REGULATORY AGENCIES AND AUTHORITIES.
- DISCONNECT, SHUT OFF AND SEAL IN CONCRETE ALL UTILITIES SERVING THE STRUCTURE(S) TO BE DEMOLISHED BEFORE THE COMMENCEMENT OF THE DESIGNATED DEMOLITION WORK FOR POSITION ALL UTILITY DRAINAGE AND SANITARY LINES AND PROTECT ALL ACTIVE LINES. CLEARLY IDENTIFY BEFORE THE COMMENCEMENT OF DEMOLITION SERVICES THE REQUIRED INTERRUPTION OF ACTIVE SYSTEMS THAT MAY AFFECT OTHER PARTIES, AND NOTIFY ALL APPLICABLE UTILITY COMPANIES TO ENSURE THE CONTINUATION OF SERVICE.
- THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION OTHER THAN THAT ALL PROCEDURES ARE TO BE IN ACCORDANCE WITH STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS NECESSARY.

- NOTES**
- IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR SHALL BE REQUIRED TO CALL THE BOARD OF PUBLIC UTILITIES ONE CALL DAMAGE PROTECTION SYSTEM OR UTILITY MARK OUT IN ADVANCE OF ANY EXCAVATION.
  - CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING SITE IMPROVEMENTS AND UTILITIES. ALL DISCREPANCIES SHALL BE IDENTIFIED TO THE ENGINEER IN WRITING.
  - ALL EXISTING UTILITIES TO BE ABANDONED SHALL BE DISCONNECTED AND CAPPED AT THE MAIN FOR WATER, AT THE CLEAN-OUT FOR SEWER AND THE SHUT-OFF VALVE OR MAIN FOR GAS IN ACCORDANCE WITH MUNICIPAL AND LOCAL UTILITY REQUIREMENTS.
  - ALL EXISTING DEBRIS SHALL BE REMOVED BY CONTRACTOR IN ACCORDANCE WITH MUNICIPAL AND LOCAL UTILITY COMPANY REQUIREMENTS.



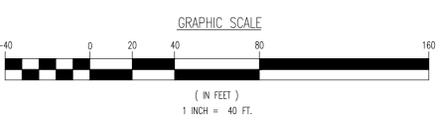
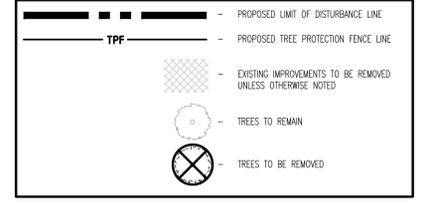
**ESTIMATE A TREE'S PROTECTED ROOT ZONE (PRZ) BY CALCULATING THE CRITICAL ROOT RADIUS (CRR)**

- MEASURE THE DBH (DIAMETER OF TREE AT BREAST HEIGHT, 4.5' ABOVE GROUND ON THE UPHILL SIDE OF TREE) IN INCHES.
- MULTIPLY MEASURED DBH BY 1.5 OR 1.0. EXPRESS THE RESULT IN FEET

DBH x 1.5: CRITICAL ROOT RADIUS FOR OLDER, UNHEALTHY, OR SENSITIVE SPECIES.  
 DBH x 1.0: CRITICAL ROOT RADIUS FOR YOUNGER, HEALTHY OR TOLERANT SPECIES.

**TREE PROTECTION DURING SITE CONSTRUCTION DETAIL**  
 NOT TO SCALE

**DEMOLITION PLAN LEGEND**



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 Allen, Texas 1-972.242.2100 | Houston, Texas 1-281.789.4400  
 New Orleans, Louisiana 1-225.685.0274 | Dallas, Texas 1-561.921.8570

TITLE: **DEMOLITION PLAN**

PROJECT: **CSH PASCACK, LLC PROPOSED ASSISTED LIVING**

BLOCK 2202, LOT 1  
 620 PASCACK ROAD (CR 502)  
 TOWNSHIP OF WASHINGTON, BERGEN COUNTY, NEW JERSEY

JOSEPH G. JAWORSKI DANIEL T. SEHNAL

PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 36618  
 PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 53572

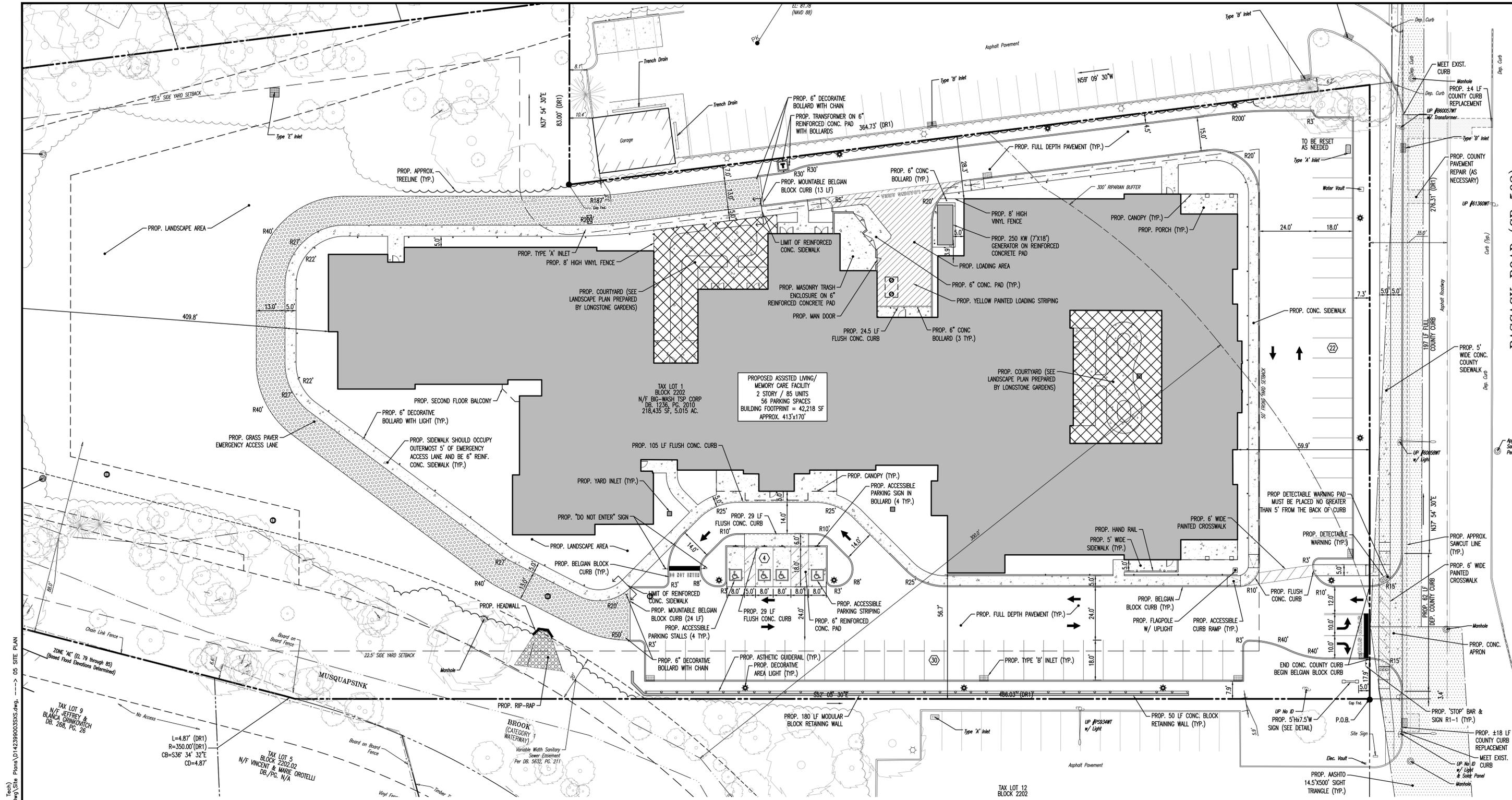
JOB No: 1423-99-003  
 DATE: 01/10/2020  
 DRAWN BY: LZ  
 DESIGNED BY: MLR  
 CHECKED BY: DTS  
 SCALE: (H) 1"=20'  
 (V)  
 SHEET No: 3  
 OF 21

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Plotted: 09/14/20 9:38 AM, By: russell, Product Ver: 23.1a (LMS Tech)  
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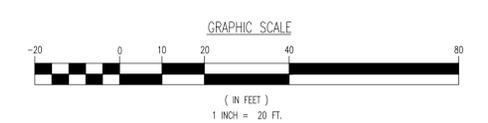
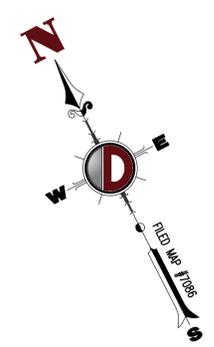




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APPROVED BY THE COUNTY PLANNING BOARD, COUNTY OF BERGEN, NEW JERSEY

ATTESTED TO BY: \_\_\_\_\_ DATE: \_\_\_\_\_



**SEE SHEET 4 OF 21 FOR SITE PLAN NOTES**

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 New Orleans, Louisiana 1: 225.855.0276 | Dallas, Texas 1: 972.921.8570

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### SITE PLAN

**PROJECT:** CSH PASCACK, LLC  
 PROPOSED ASSISTED LIVING  
 BLOCK 2202, LOT 1  
 620 PASCACK ROAD (CR 502)  
 TOWNSHIP OF WASHINGTON, BERGEN COUNTY, NEW JERSEY

**JOB No:** 1423-99-003  
**DATE:** 01/10/2020  
**SCALE:** (H) 1"=20'  
 (V)  
**SHEET No:**

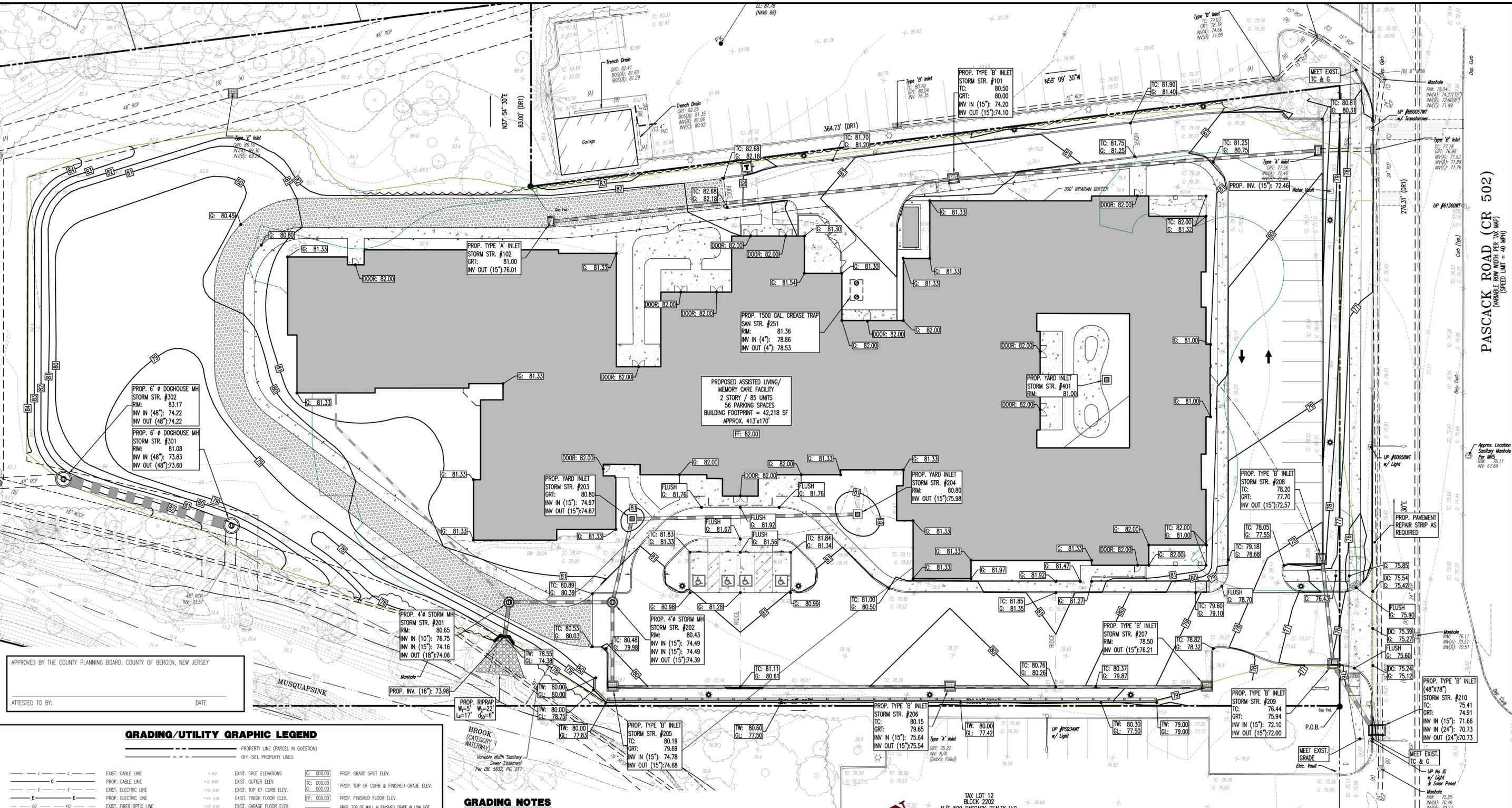
**JOSEPH G. JAWORSKI**  
 PROFESSIONAL ENGINEER  
 NEW JERSEY LICENSE No. 36618

**DANIEL T. SEHNAL**  
 PROFESSIONAL ENGINEER  
 NEW JERSEY LICENSE No. 53572

**5**  
 OF 21  
 Rev. # 6

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Plotted: 09/14/20 9:39 AM, By: russell, Product Ver: 23.1a (MS Tech) File: P:\VEPC PROJECTS\1423 Capitol Seniors Housing\99-003 Washington Dwg Site Plans\14239003SNG.dwg, --- 06 GRADING PLAN



APPROVED BY THE COUNTY PLANNING BOARD, COUNTY OF BERGEN, NEW JERSEY

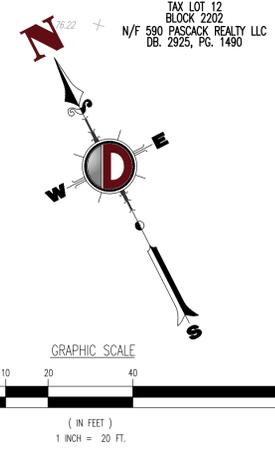
ATTESTED TO BY: \_\_\_\_\_ DATE: \_\_\_\_\_

**GRADING/UTILITY GRAPHIC LEGEND**

---	PROPERTY LINE (PARCEL IN QUESTION)	---	EXIST. SPOT ELEVATIONS	TC: 000.00	PROP. GRADE SPOT ELEV.
---	OFF-SITE PROPERTY LINES	---	EXIST. GUTTER ELEV.	TC: 000.00	PROP. TOP OF CURB & FINISHED GRADE ELEV.
---	EXIST. CABLE LINE	---	EXIST. TOP OF CURB ELEV.	FF: 000.00	PROP. FINISHED FLOOR ELEV.
---	EXIST. ELECTRIC LINE	---	EXIST. FINISH FLOOR ELEV.	---	PROP. TOP OF WALL & FINISHED GRADE @ LOW SIDE OF WALL (FACTORY BOTTOM OF WALL FOOTING TO BE ESTABLISHED BY WALL DESIGNER)
---	EXIST. FIBER OPTIC LINE	---	EXIST. GARAGE FLOOR ELEV.	---	PROP. TOP OF EXTENDED CURB (OH) FINISHED GRADE @ HIGH SIDE OF EXTENDED CURB & (CL) FINISHED GRADE @ LOW SIDE OF EXTENDED CURB
---	EXIST. FUEL LINE	---	EXIST. FIRE HYDRANT	---	PROP. DIRECTION OF DRAINAGE FLOW ARROW
---	EXIST. OVERHEAD WIRES	---	EXIST. WATER VALVE	---	PROP. WATER VALVE
---	EXIST. OVERHEAD WIRES	---	EXIST. GAS METER	---	PROP. GAS VALVE
---	EXIST. TELEPHONE LINE	---	EXIST. ELECTRIC METER	---	PROP. STORM CLEANOUT
---	EXIST. UNDERGROUND ELEC./TELE. SERVICE (NO. & SIZE OF CONDUITS NOT DEFINED)	---	EXIST. CLEAN OUT	---	PROP. SANITARY CLEANOUT
---	EXIST. UNDERGROUND ELEC./TELE. SERVICE (NO. & SIZE OF CONDUITS NOT DEFINED)	---	EXIST. WATER SHUT OFF VALVE	---	PROP. AREA LIGHT
---	EXIST. TELEPHONE BOX	---	EXIST. CABLE TV BOX	---	PROP. OUTLET CONTROL STRUCTURE
---	EXIST. WATER LINE	---	EXIST. UTILITY POLE	---	PROP. DRAINAGE MANHOLE
---	PROP. WATER LINE	---	EXIST. GUY WIRE	---	PROP. SANITARY SWEWER MANHOLE
---	EXIST. SANITARY SEWER LINE	---	EXIST. LIGHT POLE	---	PROP. "A" INLET
---	PROP. SANITARY SEWER LINE	---	EXIST. BUILDING LIGHT	---	PROP. "B" INLET
---	EXIST. STORM DRAIN LINE	---	EXIST. SHOE BOX LIGHT	---	PROP. "C" INLET
---	PROP. STORM DRAIN LINE	---	EXIST. COBRA LIGHT POLE	---	PROP. "E" INLET
---	EXIST. MINOR CONTOUR & ELEVATION	---	EXIST. TRAFFIC SIGNAL POLE	---	PROP. YARD INLET
---	PROP. FINISH GRADE CONTOUR & ELEVATION	---	EXIST. "A" INLET	---	EXIST. FLARED END SECTION
---	EXIST. MONITORING WELL	---	EXIST. "B" INLET	---	EXIST. HEADWALL
---	APP. TEST PIT LOCATION	---	EXIST. "C" INLET	---	
---		---	EXIST. YARD INLET	---	
---		---	EXIST. FLARED END SECTION	---	
---		---	EXIST. HEADWALL	---	

**GRADING NOTES**

1. 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 MINIMUM DENSITY PER A.S.T.M. 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 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.
2. 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 LOW ON ALL CONCRETE SURFACES, AND 1-1/2% MIN. ON ASPHALT TO PREVENT PONDING. ANY DISCREPANCIES THAT MAY AFFECT 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.
3. 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.
4. SUBGRADE MATERIAL FOR SIDEWALKS, CURB, OR ASPHALT SHALL BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBGRADE BE DEEMED UNSUITABLE, SUBGRADE IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL COMPACTED TO 95% OPTIMUM DENSITY (AS DETERMINED BY MODIFIED PROCTOR METHOD).
5. REFER TO SITE PLAN FOR ADDITIONAL NOTES.
6. IN CASE OF DISCREPANCIES BETWEEN PLANS, THE SITE PLAN WILL SUPERCEDE IN ALL CASES. CONTRACTOR MUST NOTIFY ENGINEER OF RECORD OF ANY CONFLICT IMMEDIATELY.
7. MAXIMUM CROSS SLOPE OF 2% ON ALL SIDEWALKS.
8. CONTRACTOR TO ENSURE A MAXIMUM OF 2% SLOPE IN ALL DIRECTIONS IN ADA PARKING SPACES AND ADA ACCESSIBLES. 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 CLARIFY ANY QUESTIONS CONCERNING CONSTRUCTION IN ADA AREAS WITH THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
9. THE OWNER SHALL RETAIN DYNAMIC EARTH, LLC (908-879-7095) OR ALTERNATE QUALIFIED GEOTECHNICAL ENGINEER TO TEST SOIL PERMEABILITY AND PROVIDE CONSTRUCTION PHASE INSTRUCTIONS OF THE BASIN BOTTOM SOILS AND ALL FILL MATERIALS WITHIN ANY PROPOSED INFILTRATION OR RETENTION BASIN TO COMPARE RESULTS TO DESIGN CRITERIA.
10. CONTRACTOR IS TO REMOVE EXISTING UNSUITABLE OR OVERLY COMPACT SOIL OR ROCK AS NEEDED TO ACHIEVE REQUIRED PERMEABILITY AS DIRECTED BY THE OWNER'S GEOTECHNICAL ENGINEER, AND NEW FILL, IF NEEDED, SHALL HAVE AN IN PLACE PERMEABILITY GREATER THAN OR EQUAL TO THE DESIGN CRITERIA.
11. 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 BURN PERMEABILITY TESTING.
12. THE CONTRACTOR IS RESPONSIBLE FOR AS-BUILT PLANS AND GRADE CONTROL UNLESS DIFFERENT OTHERWISE ELSEWHERE IN THE CONTRACT DOCUMENTS.



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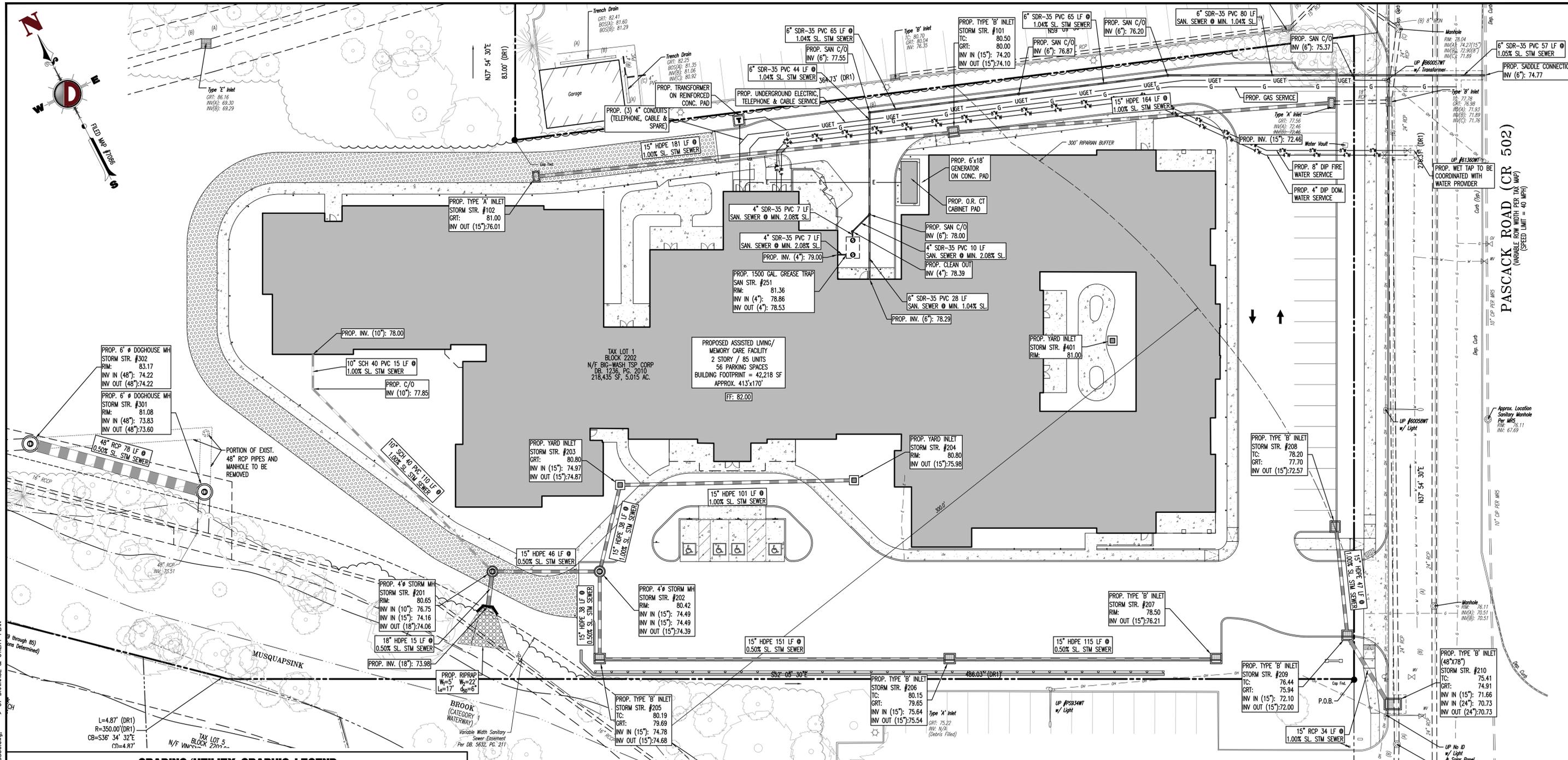
Job No: 1423-99-003 DATE: 01/10/2020  
 PROJECT: CSH PASCACK, LLC PROPOSED ASSISTED LIVING BLOCK 2202, LOT 1 620 PASCACK ROAD (CR 502) TOWNSHIP OF WASHINGTON, BERGEN COUNTY, NEW JERSEY  
 DRAWN BY: DJS SCALE: (H) 1"=20' (V)  
 DESIGNED BY: MLR SHEET No:  
 CHECKED BY: DTS  
 CHECKED BY: \_\_\_\_\_

**JOSEPH G. JAWORSKI** DANIEL T. SEHNAL  
 PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 36618  
 PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 53572

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Rev. # 6

**PASCACK ROAD (CR 502)**  
 (VARIABLE ROW WIDTH PER TAX MAP)  
 (SPEED LIMIT = 40 MPH)



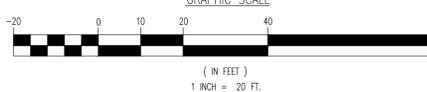
### GRADING/UTILITY GRAPHIC LEGEND

	PROPERTY LINE (PARCEL IN QUESTION)		EXIST. SPOT ELEVATIONS
	OFF-SITE PROPERTY LINES		PROP. GRADE SPOT ELEV.
	EXIST. CABLE LINE		PROP. TOP OF CURB & FINISH GRADE ELEV.
	PROP. CABLE LINE		EXIST. TOP OF CURB ELEV.
	EXIST. ELECTRIC LINE		PROP. FINISH FLOOR ELEV.
	PROP. ELECTRIC LINE		PROP. TOP OF WALL & FINISHED GRADE @ LOW SIDE OF WALL (FACTORY BOTTOM OF WALL FOOTING TO BE ESTABLISHED BY WALL DESIGNER)
	EXIST. FIBER OPTIC LINE		PROP. TOP OF EXTENDED CURB (H) FINISHED GRADE @ HIGH SIDE OF EXTENDED CURB & (L) FINISHED GRADE @ LOW SIDE OF EXTENDED CURB
	PROP. FIBER OPTIC LINE		PROP. DIRECTION OF DRAINAGE FLOW ARROW
	EXIST. FUEL LINE		PROP. WATER VALVE
	PROP. FUEL LINE		PROP. GAS VALVE
	EXIST. OVERHEAD WIRES		PROP. STORM CLEANOUT
	PROP. OVERHEAD WIRES		PROP. SANITARY CLEANOUT
	EXIST. TELEPHONE LINE		PROP. AREA LIGHT
	PROP. TELEPHONE LINE		PROP. DRAINAGE MANHOLE
	EXIST. UNDERGROUNDED ELEC./TELE. SERVICE (NO. & SIZE OF CONDUCTS NOT DEFINED)		PROP. SANITARY SEWER MANHOLE
	PROP. UNDERGROUNDED ELEC./TELE. SERVICE (NO. & SIZE OF CONDUCTS NOT DEFINED)		PROP. 'A' INLET
	EXIST. WATER LINE		PROP. 'B' INLET
	PROP. WATER LINE		PROP. 'C' INLET
	EXIST. SANITARY SEWER LINE		PROP. YARD INLET
	PROP. SANITARY SEWER LINE		PROP. FLARED END SECTION
	EXIST. STORM DRAIN LINE		PROP. HEADWALL
	PROP. STORM DRAIN LINE		
	EXIST. MINOR CONTOUR & ELEVATION		
	EXIST. MAJOR CONTOUR & ELEVATION		
	PROP. FINISH GRADE CONTOUR & ELEVATION		
	EXIST. MONITORING WELL		
	APPROX. TEST PIT LOCATION		

- ### UTILITY NOTES
- LOCATION OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY SERVICE CONNECTION POINTS SHALL BE CONFIRMED INDEPENDENTLY BY THE CONTRACTOR IN FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE ENGINEER. CONSTRUCTION SHALL COMMENCE BEGINNING AT THE LOWEST INVERT (POINT OF CONNECTION) AND PROGRESS UP GRADIENT. INTERFACE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
  - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY UTILITY "ONE-CALL" NUMBER 72 HOURS PRIOR TO ANY EXCAVATION ON THIS SITE. CONTRACTOR SHALL ALSO NOTIFY LOCAL WATER & SEWER DEPARTMENTS TO MARK OUT THEIR UTILITIES.
  - REFER TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS. WHERE CONFLICTS EXIST WITH THESE SITE PLANS, ENGINEER IS TO BE NOTIFIED PRIOR TO CONSTRUCTION TO RESOLVE SAME. SERVICE SIZES TO BE DETERMINED BY ARCHITECT.
  - WATER SERVICE MATERIALS SHALL BE SPECIFIED BY THE LOCAL UTILITY COMPANY. CONTRACTORS PRICE FOR WATER SERVICE SHALL INCLUDE ALL FEES AND APPURTENANCES REQUIRED BY THE UTILITY TO PROVIDE A COMPLETE WORKING SERVICE.
  - ALL WATER MAIN SHALL BE CEMENT-LINED, CLASS 52 DUCTILE IRON PIPE, UNLESS OTHERWISE DESIGNATED.
  - THE MINIMUM DIAMETER FOR DOMESTIC WATER SERVICES SHALL BE 1 INCH.
  - SEWER MAINS SHALL BE SEPARATED FROM WATER MAINS BY A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY. WHERE THIS IS NOT POSSIBLE, THE PIPES SHALL BE IN SEPARATE TRENCHES WITH THE SEWER MAIN AT LEAST 18 INCHES BELOW THE WATER MAIN. ALL SEWER MAINS SHALL BE SDR-35 PVC PIPE UNLESS OTHERWISE DESIGNATED.
  - ALL SEWER PIPE INSTALLED WITH LESS THAN 3 FEET OF COVER, GREATER THAN 20 FEET OF COVER OR WITHIN 18 INCHES OF A WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE. ALL DUCTILE IRON SEWER PIPE SHALL BE CEMENT-LINED, CLASS 52 PIPE, FURNISHED WITH SEWER COAT, OR APPROVED EQUAL.
  - WHERE SANITARY SEWER LATERALS ARE GREATER THAN 10' DEEP AT CONNECTION TO THE SEWER MAIN, CONCRETE DEEP LATERAL CONNECTIONS ARE TO BE UTILIZED.
  - LOCATION & LAYOUT OF GAS, ELECTRIC & TELECOMMUNICATION UTILITY LINES AND SERVICES SHOWN ON THESE PLANS ARE SCHEMATIC IN NATURE. ACTUAL LOCATION & LAYOUT OF THESE UTILITIES & SERVICES ARE TO BE PER THE APPROPRIATE UTILITY PROVIDER.
  - ROOF LEADER COLLECTION PIPING ARE CONCEPTUAL IN NATURE AND ARE NOT FOR CONSTRUCTION. ACTUAL ROOF LEADER COLLECTION PIPING IS TO BE COORDINATED W/ ARCHITECTURAL PLANS FOR EACH INDIVIDUAL BUILDING. ALL ROOF LEADER COLLECTION PIPING SHALL BE SCHEDULE 40 PVC UNLESS OTHERWISE DESIGNATED.
  - ALL SEWER AND WATER FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATORY AUTHORITY'S RULES AND REGULATIONS.
  - ALL PROPOSED UTILITIES TO BE INSTALLED UNDERGROUND UNLESS OTHERWISE NOTED.
  - MANUFACTURED REINFORCED CONCRETE STORM PIPE TO CONFORM TO ASTM C-76, CLASS II, UNLESS OTHERWISE DESIGNATED. MANUFACTURED REINFORCED CONCRETE ELLIPTICAL STORM PIPE TO CONFORM TO ASTM C-507, CLASS HE-III, UNLESS OTHERWISE DESIGNATED. REINFORCED CONCRETE STORMWATER PIPE TO BE INSTALLED IN ACCORDANCE WITH AMERICAN CONCRETE PIPE ASSOCIATION INSTALLATION GUIDELINES AND MORTAR OR PREFORMED FLEXIBLE JOINT SEALANTS IN ACCORDANCE WITH ASTM C 990 TO BE UTILIZED TO PROVIDE A SLIT-TIGHT JOINT. WHERE SPECIFICALLY INDICATED, REINFORCED CONCRETE STORM PIPE JOINTS SHALL BE WATER-TIGHT AND CONFORM TO ASTM C-443.
  - HDPE DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNUAL EXTERIOR CORRUGATIONS AND CONFORM TO ASTM F2306. SOLID PIPE SHALL HAVE GASKETED WATER-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM F2306 AND ASTM D3212. PERFORATED PIPE SHALL HAVE GASKETED SLIT-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM F2306 AND ASTM F477. HDPE PIPE SHALL BE FROM A MANUFACTURER WHO IS AN EASTERN STATES CONSORTIUM (ESC) QUALIFIED MANUFACTURER OF HDPE PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURER RECOMMENDATIONS.
  - HP DRAINAGE PIPE SHALL HAVE A SMOOTH WALL INTERIOR WITH ANNUAL EXTERIOR CORRUGATIONS AND CONFORM TO ASTM F2736 (12"-30" PIPE) AND ASTM F2881 (36"-60" PIPE). PIPE SHALL HAVE GASKETED WATER-TIGHT JOINTS MEETING THE REQUIREMENTS OF ASTM D3212 AND ASTM F477. FIELD WATER-TIGHTNESS PERFORMANCE VERIFICATION MAY BE ACCOMPLISHED IN ACCORDANCE WITH ASTM F2487. HP PIPE SHALL BE FROM A MANUFACTURER WHO IS AN EASTERN STATES CONSORTIUM (ESC) QUALIFIED MANUFACTURER OF HP STORM PIPE AND INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURER RECOMMENDATIONS.
  - PIPE LENGTHS ON THIS PLAN HAVE BEEN MEASURED AS THE DISTANCE BETWEEN THE CENTER POINT OF THE 2 CONNECTED STRUCTURES. ACTUAL PHYSICAL PIPE LENGTH FOR INSTALLATION IS EXPECTED TO BE LESS AND SHOULD BE ACCOUNTED FOR BY THE CONTRACTOR ACCORDINGLY.

APPROVED BY THE COUNTY PLANNING BOARD, COUNTY OF BERGEN, NEW JERSEY

ATTESTED TO BY: \_\_\_\_\_ DATE \_\_\_\_\_



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PROJECT: **CSH PASCACK, LLC**  
**PROPOSED ASSISTED LIVING**  
BLOCK 2202, LOT 1  
620 PASCACK ROAD (CR 502)  
TOWNSHIP OF WASHINGTON, BERGEN COUNTY, NEW JERSEY

TITLE: **DRAINAGE & UTILITY PLAN**

JOB No: 1423-99-003  
DATE: 01/10/2020

DRAWN BY: DJS  
SCALE: (H) 1"=20'  
(V)

DESIGNED BY: MLR  
SHEET No:

CHECKED BY: DTS

CHECKED BY: \_\_\_\_\_

**JOSEPH G. JAWORSKI** **DANIEL T. SEHNAL**

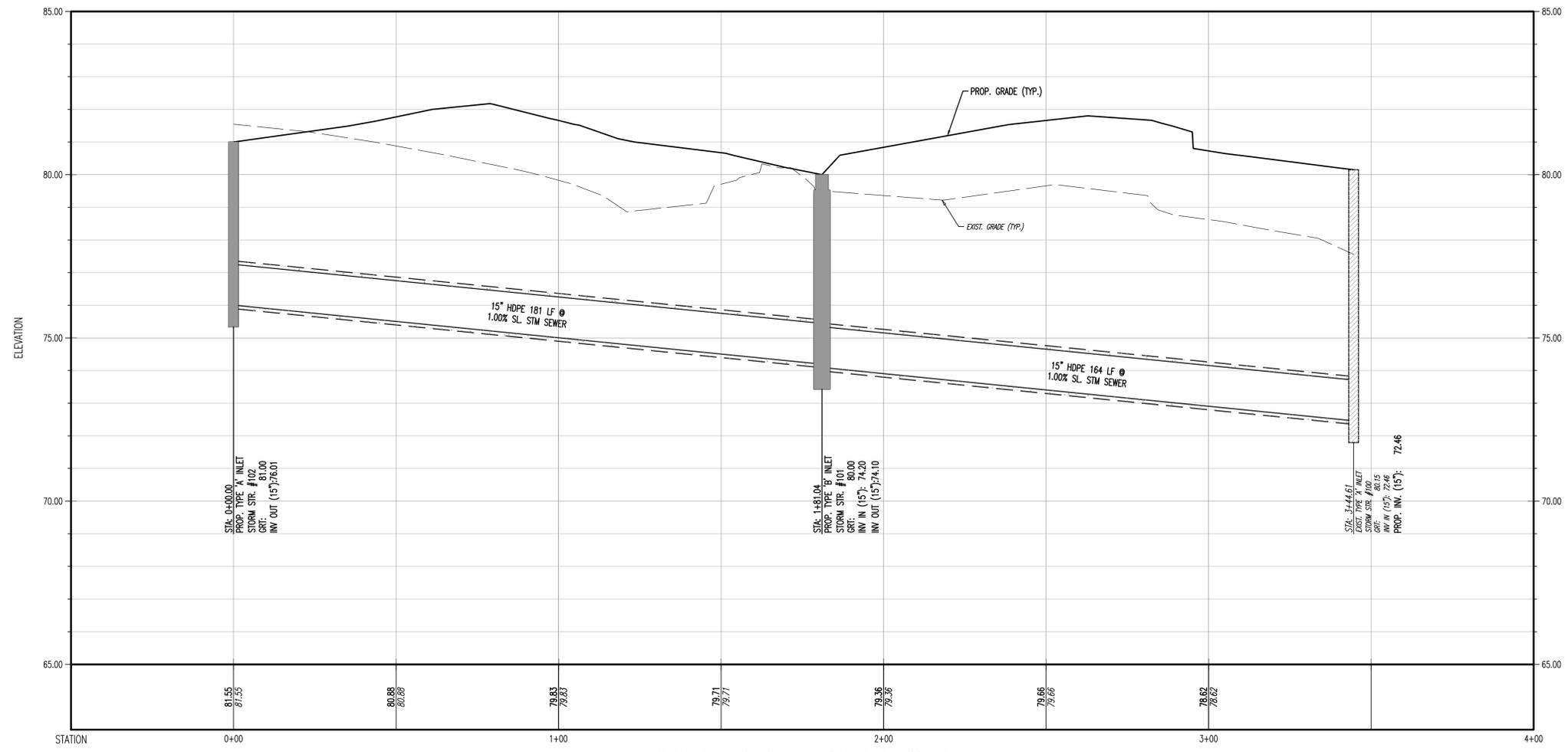
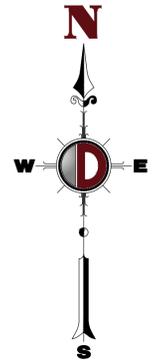
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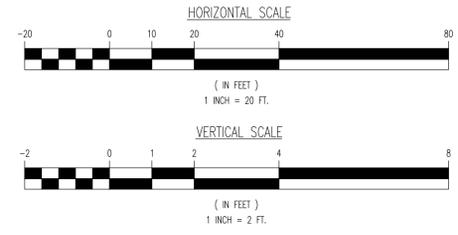
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Rev. # 6

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PROFILE VIEW OF STORM STR. - INLET #102 THRU EXIST. 'A' INLET  
 HORIZONTAL SCALE: 1"=20'  
 VERTICAL SCALE: 1"=2'



Plotted: 09/14/20 - 9:39 AM, By: russell, Product Ver: 23.1a (LMS Tech)  
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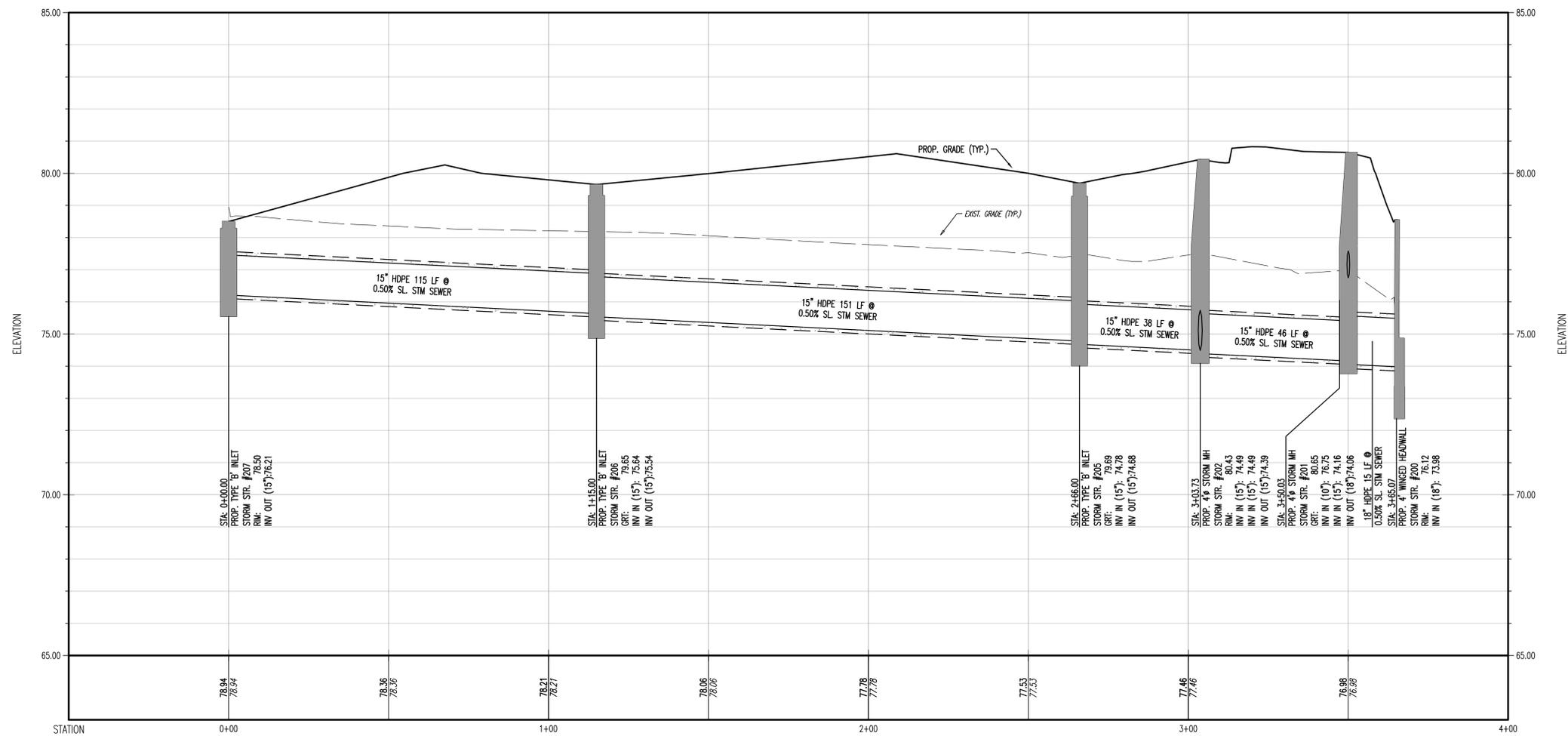
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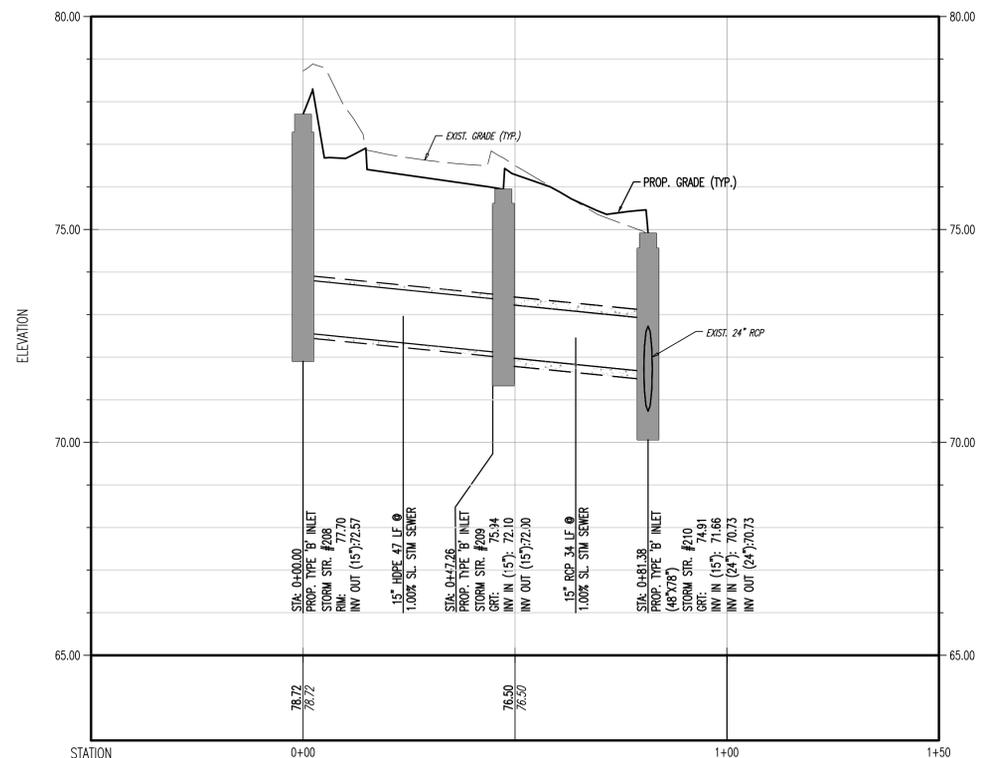
Lake Como, New Jersey 1-732-974-0198 | Chester, New Jersey 1-908-879-9229 | Newark, New Jersey 1-973-253-7200 | Torrs River, New Jersey 1-732-974-0198  
 Allen, Texas 1-972-334-2100 | Austin, Texas 1-512-344-2344 | Houston, Texas 1-281-789-6400  
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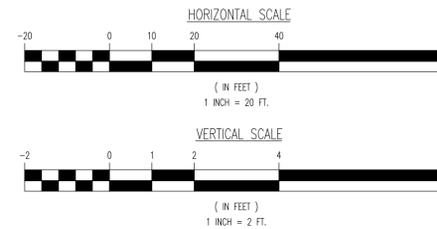
<b>TITLE:</b> <h2 style="text-align: center;">STORM DRAIN PROFILES</h2>	
<b>PROJECT:</b> <b>CSH PASCACK, LLC</b> <b>PROPOSED ASSISTED LIVING</b> BLOCK 2202, LOT 1 620 PASCACK ROAD (CR 502) TOWNSHIP OF WASHINGTON, BERGEN COUNTY, NEW JERSEY	<b>JOB No:</b> 1423-99-003 <b>DATE:</b> 01/10/2020 <b>SCALE:</b> (H) 1"=20' (V) 1"=2' <b>SHEET No:</b> <h1 style="font-size: 2em; text-align: center;">8</h1> OF 21
<b>DESIGNED BY:</b> JTG <b>DESIGNED BY:</b> MLR <b>CHECKED BY:</b> DTS <b>CHECKED BY:</b> -	<b>PROFESSIONAL ENGINEER</b> NEW JERSEY LICENSE No. 36618 <b>PROFESSIONAL ENGINEER</b> NEW JERSEY LICENSE No. 53572
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PROFILE VIEW OF STORM STR. - INLET #207 THRU HEADWALL #200  
 HORIZONTAL SCALE: 1"=20'  
 VERTICAL SCALE: 1"=2'



PROFILE VIEW OF STORM STR. - INLET #208 THRU INLET #210  
 HORIZONTAL SCALE: 1"=20'  
 VERTICAL SCALE: 1"=2'



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TITLE: **STORM DRAIN PROFILES**

PROJECT: **CSH PASCACK, LLC  
 PROPOSED ASSISTED LIVING**

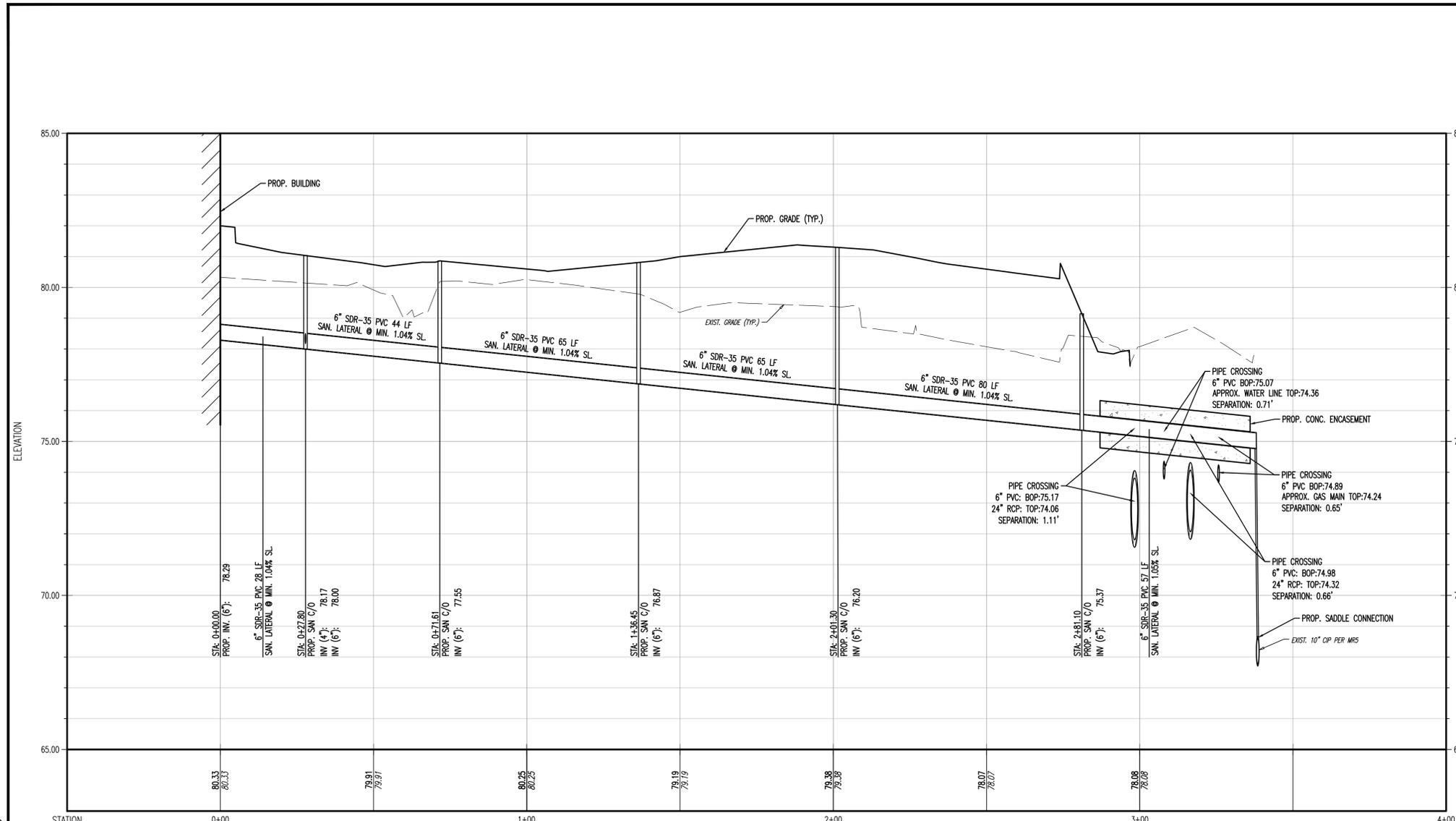
620 PASCACK ROAD (CR 502)  
 BLOCK 2202, LOT 1  
 TOWNSHIP OF WASHINGTON, BERGEN COUNTY, NEW JERSEY

JOSEPH G. JAWORSKI (Professional Engineer, NJ License No. 36618)  
 DANIEL T. SEHNAL (Professional Engineer, NJ License No. 53572)

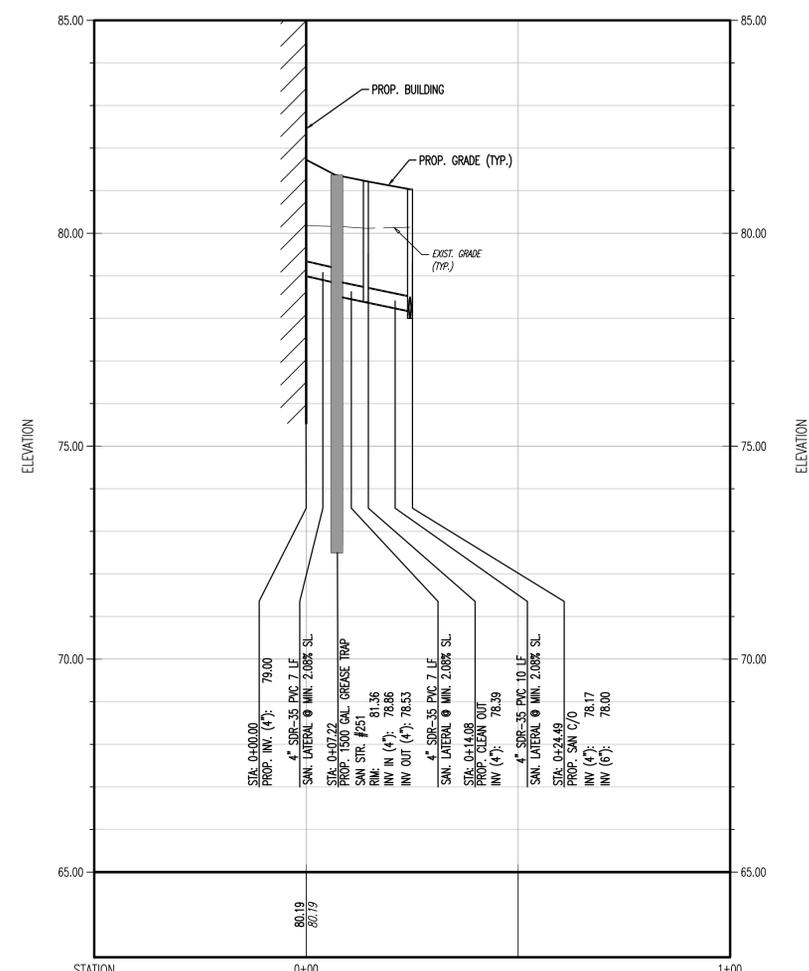
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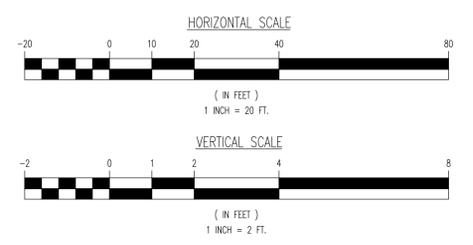
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PROFILE VIEW OF SAN STR. - BLDG THRU SADDLE AT EXIST. MAIN  
 HORIZONTAL SCALE: 1"=20'  
 VERTICAL SCALE: 1"=2'



PROFILE VIEW OF SAN STR. - BLDG THRU SAN CLEAN OUT  
 HORIZONTAL SCALE: 1"=20'  
 VERTICAL SCALE: 1"=2'



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TITLE: **SANITARY SEWER PROFILES**

PROJECT: **CSH PASCACK, LLC  
 PROPOSED ASSISTED LIVING**

620 PASCACK ROAD (CR 502)  
 TOWNSHIP OF WASHINGTON, BERGEN COUNTY, NEW JERSEY

JOB No: 1423-99-003 DATE: 01/10/2020

DRAWN BY: JTG SCALE: (H) 1"=20'  
 (V) 1"=2'

DESIGNED BY: MLR SHEET No:

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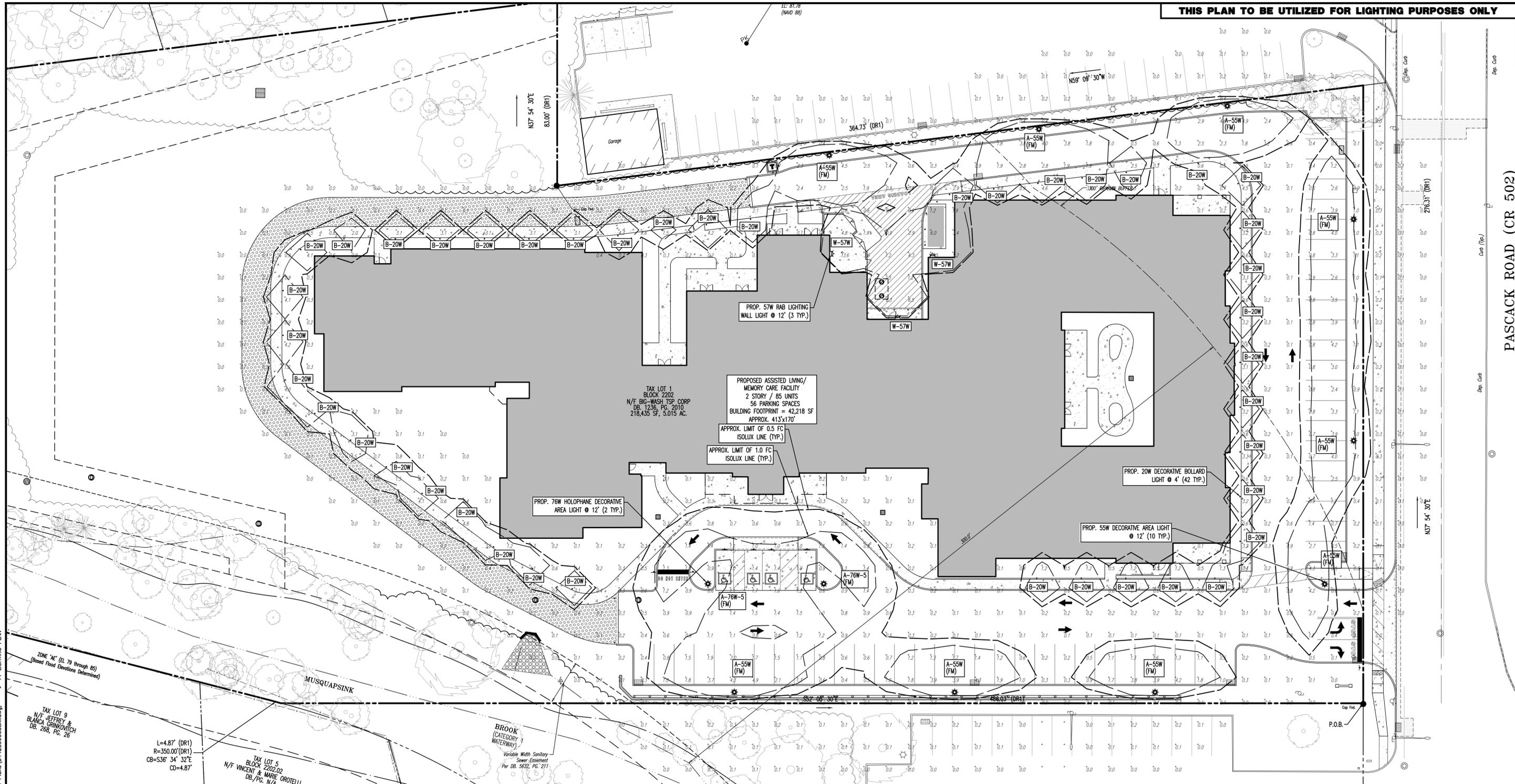
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**10**  
OF 21

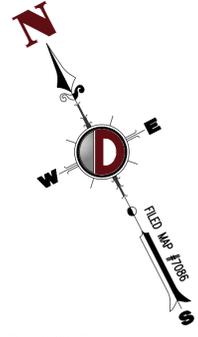
Rev. # 6

THIS PLAN TO BE UTILIZED FOR LIGHTING PURPOSES ONLY



**LIGHTING NOTES**

1. THIS LIGHTING PLAN ILLUSTRATES ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) APPROVED METHODS. ACTUAL SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER RELATED VARIABLE FIELD CONDITIONS.
2. ALL EXISTING CONDITIONS LIGHTING LEVELS ARE REPRESENTATIVE OF AN APPROXIMATION UTILIZING LABORATORY DATA FOR SIMILAR FIXTURES AND/OR ACTUAL FIELD MEASUREMENTS TAKEN WITH A LIGHT METER. DUE TO FACTORS SUCH AS FIXTURE MAINTENANCE, EQUIPMENT TOLERANCES, WEATHER CONDITIONS, ETC., ACTUAL LIGHTING LEVELS MAY DIFFER AND THE LIGHTING LEVELS DEPICTED ON THIS PLAN SHOULD BE CONSIDERED AS APPROXIMATE.
3. CONDUITS SHALL BE INSTALLED A MINIMUM OF 2 FEET BEHIND GUARDRAIL POSTS.
4. ALL WIRING METHODS AND EQUIPMENT CONSTRUCTION SHALL CONFORM TO THE CURRENT NATIONAL ELECTRICAL CODE.
5. REFER TO ARCHITECTURAL PLANS FOR LIGHTING DIAGRAM.



LUMINAIRE SCHEDULE									
SYMBOL	QTY	LABEL	ARRANGEMENT	HEIGHT	LLF	DESCRIPTION	FILENAME	LUM. WATTS	LUM. LUMENS
○	42	B-20W	SINGLE	4'	0.9	20 WATT BOLLARD & LIGHT COLUMN SERIES LUMINAIRE	DOSB1-20W1SLED4K-120.ies	20	N/A
★	2	A-76W-5	SINGLE	12'	0.9	76 WATT TYPE 5 PATTERN HOLOPHANE POSTOP LED SERIES LUMINAIRE	PIEZ_P30_30K_XL_A15.ies	76	6,401
⊞	3	W-57W	SINGLE	12'	0.9	57 WATT WALLPACK RAB LIGHTING SLIMFC57N	SLIMFC57N - Neutral - RAB02656MO	57	5,422
⊞	10	A-55W	SINGLE	12'	0.9	55 WATT 49 LED CLEAR TYPE II POST TOP LUMINAIRE SHIELDED	S26-55W49LED3X-G2-C-LE2-HS.ies	55	4,338

ISO CURVES ARE MAINTAINED AND SHOWN AT 0.5 AND 0.1 FC.  
 (FM) - FLUSH MOUNT FOUNDATION. (PED) - PEDESTAL FOUNDATION.  
 THE CALCULATIONS SHOWN WERE MADE UTILIZING ACCEPTED PROCEDURES OF THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA. VARIATIONS IN LAMP OUTPUT, BALLAST OUTPUT, LINE VOLTAGE, DIRT DEPRECIATION, AND OTHER FACTORS MAY AFFECT ACTUAL RESULTS. UNLESS OTHERWISE STATED, ALL RESULTS ARE MAINTAINED VALUES, UTILIZING ACCEPTED LIGHT LOSS FACTORS (LLF).

CALCULATION SUMMARY						
LABEL	CALCTYPE	UNITS	AVG	MAX	MIN	AVG/MIN
PARKING LOT	ILLUMINANCE	Fc	1.1	6.5	0.0	N/A

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 F: 908.879.0222  
 www.dynamiceng.com

PROJECT: **CSH PASCACK, LLC**  
**PROPOSED ASSISTED LIVING**  
 BLOCK 2202, LOT 1  
 620 PASCACK ROAD (CR 502)  
 TOWNSHIP OF WASHINGTON, BERGEN COUNTY, NEW JERSEY

TITLE: **LIGHTING PLAN**

PROJECT: 1423-99-003

DATE: 01/10/2020

DESIGNED BY: JTG

CHECKED BY: MLR

SCALE: (H) 1"=20'  
(V)

SHEET No:

JOSEPH G. JAWORSKI

DANIEL T. SEHNAL

PROFESSIONAL ENGINEER  
 NEW JERSEY LICENSE No. 36618

PROFESSIONAL ENGINEER  
 NEW JERSEY LICENSE No. 53572

JOB No: 1423-99-003

DATE: 01/10/2020

SCALE: (H) 1"=20'  
(V)

SHEET No:

**11**

OF 21

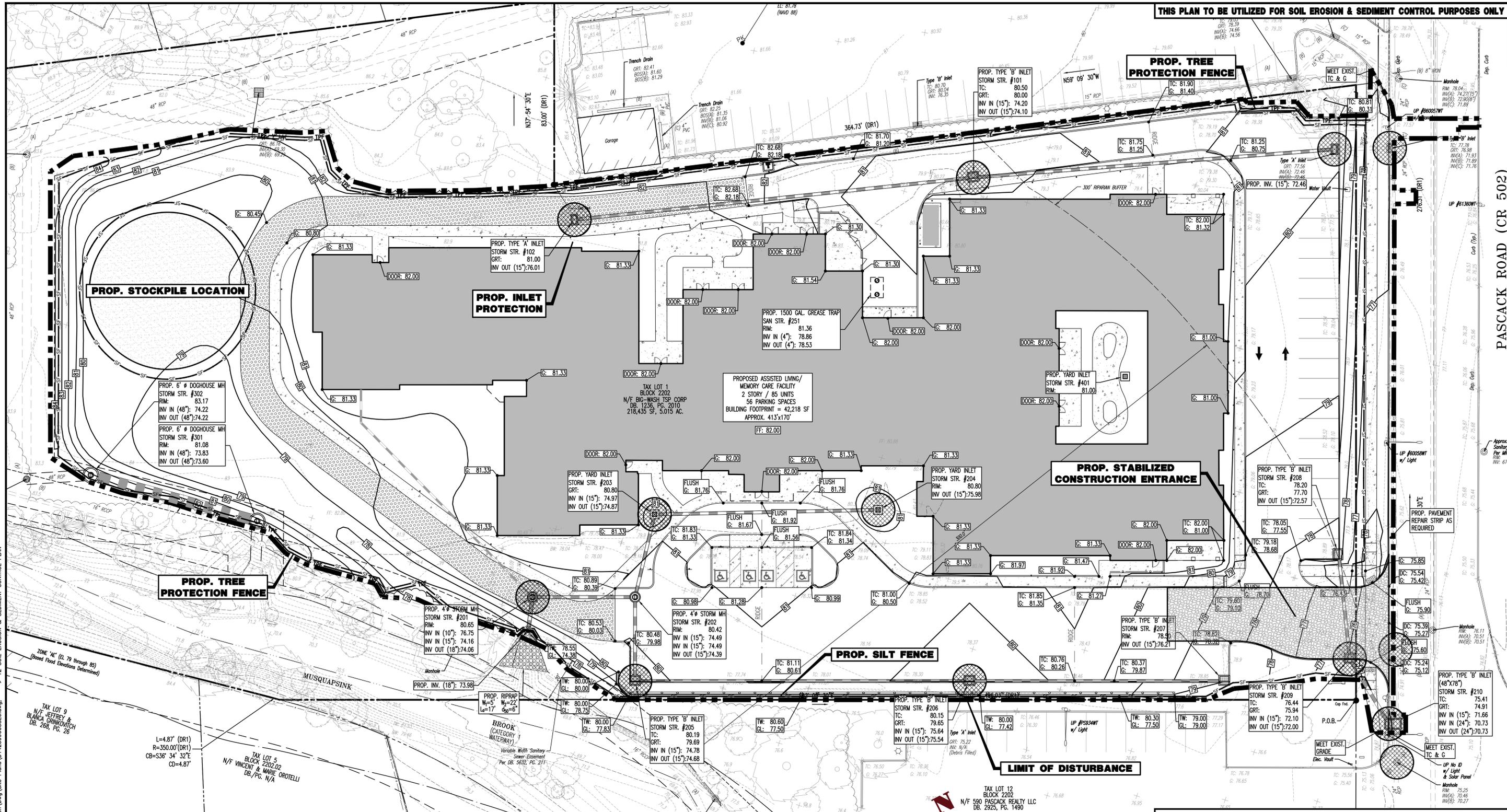
Rev. # 6

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ALL STATES REQUIRE VERIFICATION OF  
 ENGINEERING PROJECTS BY AN ENGINEER  
 PREPARED BY AN ENGINEER OR ARCHITECT  
 BEFORE THE STATE'S SERVICE AGENCIES IN ANY STATE

FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT:  
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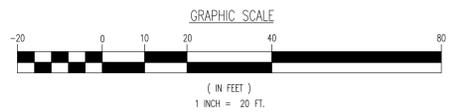
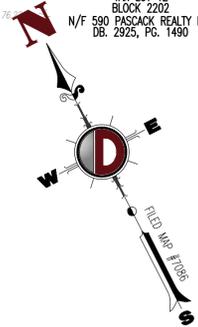


**LIMIT OF DISTURBANCE = 136,312 SF. ( 3.1 Ac.)**

**SEE SHEET 13 OF 21 FOR SOIL EROSION NOTES**

**EROSION CONTROL LEGEND**

- PROP. LIMIT OF DISTURBANCE LINE
- PROP. SILT FENCE LINE
- PROP. TREE PROTECTION FENCE LINE
- PROP. INLET FILTER
- PROP. HAYBALE SEDIMENT BARRIER



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TITLE:		JOB No:		DATE:	
SOIL EROSION & SEDIMENT CONTROL PLAN		1423-99-003		01/10/2020	
PROJECT:		DRAWN BY:		SCALE: (H) 1"=20' (V)	
CSH PASCACK, LLC PROPOSED ASSISTED LIVING BLOCK 2202, LOT 1 620 PASCACK ROAD (CR 502) TOWNSHIP OF WASHINGTON, BERGEN COUNTY, NEW JERSEY		JTG			
DESIGNED BY:		CHECKED BY:		SHEET No:	
MLR		DTS		12	
JOSEPH G. JAWORSKI		DANIEL T. SEHNAL		PROTECT YOURSELF	
PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 36618		PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 53572		ALL STATES REQUIRE VERIFICATION OF PERMITS. PERFORM AS SHOWN UNLESS SPECIFICALLY NOTED OTHERWISE. FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT WWW.CALL811.COM	
Rev. #		Date		Comments	
6	09/14/20	REVISED PER COUNTY COMMENTS	JTG		
5	06/17/20	REVISED PER NEW BUILDING FOOTPRINT	JTG		
4	07/09/20	REVISED PER NEW BUILDING FOOTPRINT	JTG		
3	05/26/20	REVISED PER TOWNSHIP COMMENTS	JTG		
2	05/04/20	REVISED PER SHARPE UPDATE	DJS		
1	03/20/20	REVISED PER COMPLETENESS COMMENTS	JTG		

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**SEQUENCE OF CONSTRUCTION:**

- PHASE 1: INSTALL STONE ANTI-TRACKING PAD AND OTHER SOIL EROSION SEDIMENT CONTROL MEASURES INCLUDING DOWN SLOPE PERIMETER HAY BALES, SILT FENCE, & TREE PROTECTION FENCING. (2 DAYS)
- PHASE 2: DEMOLISH EXISTING BUILDING AND ASSOCIATED LOT IMPROVEMENTS. (1 MONTH)
- PHASE 3: CLEAR AND ROUGH GRADE FOR NEW BUILDING SITE AND OTHER STRUCTURES REQUIRING EXCAVATION. (2 MONTHS)
- PHASE 4: EXCAVATE AND INSTALL UNDERGROUND PIPING AND DRAINAGE STRUCTURES. INSTALL INLET FILTERS (1 MONTH)
- PHASE 5: EXCAVATE FOR BUILDING FOUNDATION. (2 WEEKS)
- PHASE 6: COMPLETE BUILDING CONSTRUCTION. (8 MONTHS)
- PHASE 7: EXCAVATE AND INSTALL ON SITE IMPROVEMENTS INCLUDING CURBING, ROOF LEADERS, SIDEWALKS AND LIGHT POLE FOUNDATIONS. (1 MONTH)
- PHASE 8: FINAL GRADING ON SITE. REMOVE TREE PROTECTION FENCING. (1 WEEK)
- PHASE 9: UNIFORMLY APPLY TOPSOIL TO AN AVERAGE DEPTH OF 5", MINIMUM OF 4", FIRMED IN PLACE. (1 WEEK)
- PHASE 10: INSTALL PAVING, CONCRETE, AND FINAL VEGETATION INCLUDING SEEDING AND LANDSCAPING. (1 WEEK)
- PHASE 11: REMOVE SOIL EROSION AND SEDIMENT CONTROL MEASURES ONCE SITE HAS BEEN STABILIZED.

**BERGEN COUNTY SOIL CONSERVATION DISTRICT  
SOIL EROSION AND SEDIMENT CONTROL NOTES**

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY (NJ STANDARDS), AND WILL BE INSTALLED IN PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT STABILIZATION IS ESTABLISHED.
2. ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN THIRTY (30) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND MULCHING. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREA WILL BE MULCHED WITH UNROTTED STRAW AT A RATE OF 2 TONS PER ACRE ANCHORED BY APPROVED METHODS (I.E. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH BINDER).
3. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF 2 TONS PER ACRE, ACCORDING TO THE NJ STANDARDS.
4. STABILIZATION SPECIFICATIONS:
  - A. TEMPORARY SEEDING AND MULCHING:
    - GROUND LIMESTONE - APPLIED UNIFORMLY ACCORDING TO SOIL TEST RECOMMENDATIONS.
    - FERTILIZER - APPLY 11 LBS. /1,000 SF OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN (UNLESS A SOIL TEST INDICATES OTHERWISE) WORKED INTO THE SOIL A MINIMUM OF 4".
    - SEED - PERENNIAL: PERGRASS 100 LBS. /ACRE (2.3 LBS. /1,000 SF) OR OTHER APPROVED SEED; PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1.
    - MULCH - UNROTTED STRAW OR HAY AT A RATE OF 70 TO 90 LBS. /1,000 SF APPLIED TO ACHIEVE 95% SOIL SURFACE COVERAGE. MULCH SHALL BE ANCHORED BY APPROVED METHODS (I.E. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH BINDER).
  - B. PERMANENT SEEDING AND MULCHING:
    - TOPSOIL - A UNIFORM APPLICATION TO AN AVERAGE DEPTH OF 5", MINIMUM OF 4" FIRMED IN PLACE IS REQUIRED.
    - GROUND LIMESTONE - APPLIED UNIFORMLY ACCORDING TO SOIL TEST RECOMMENDATIONS.
    - FERTILIZER - APPLY 11 LBS. /1,000 SF OF 10-10-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN (UNLESS A SOIL TEST INDICATES OTHERWISE) WORKED INTO THE SOIL A MINIMUM OF 4".
    - SEED - TURF TYPE TALL FESCUE (BLEND OF 3 CULTIVARS) 350 LBS. /ACRE (8 LBS. /1,000 SF) OR OTHER APPROVED SEED; PLANT BETWEEN MARCH 1 AND OCTOBER 1 (SUMMER SEEDING REQUIRES IRRIGATION).
    - MULCH - UNROTTED STRAW OR HAY AT A RATE OF 70 TO 90 LBS. /1,000 SF APPLIED TO ACHIEVE 95% SOIL SURFACE COVERAGE. MULCH SHALL BE ANCHORED BY APPROVED METHODS (I.E. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH BINDER).
5. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
6. SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS, INCLUDING AFTER EVERY STORM EVENT.
7. STOCKPILES ARE NOT TO BE LOCATED WITHIN 50' OF A FLOODPLAIN, SLOPE, ROADWAY OR DRAINAGE FACILITY. THE BASE OF ALL STOCKPILES SHALL BE CONTAINED BY A HAYBALE SEDIMENT BARRIER OR SILT FENCE.
8. A CRUSHED STONE, VEHICLE WHEEL-CLEANING BLANKET WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PAVED ROADWAY. SAID BLANKET WILL BE COMPOSED OF 1" - 2 1/2" CRUSHED STONE, 6" THICK, WILL BE AT LEAST 30' X 100' AND SHOULD BE UNDERLAIN WITH A SUITABLE SYNTHETIC SEDIMENT FILTER FABRIC AND MAINTAINED.
9. MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT EXCEED 3:1 UNLESS OTHERWISE APPROVED BY THE DISTRICT.
10. DRIVEWAYS MUST BE STABILIZED WITH 1" - 2 1/2" CRUSHED STONE OR SUBGRADE PRIOR TO INDIVIDUAL LOT CONSTRUCTION.
11. ALL SOIL WASHED, DROPPED, SPILLED OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHT-OF-WAYS, WILL BE REMOVED IMMEDIATELY. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
12. CATCH BASIN INLETS WILL BE PROTECTED WITH AN INLET FILTER DESIGNED IN ACCORDANCE WITH SECTION 28-1 OF THE NJ STANDARDS.
13. STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
14. DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT CONTROL BAG OR OTHER APPROVED FILTER IN ACCORDANCE WITH SECTION 16-1 OF THE NJ STANDARDS.
15. DUST SHALL BE CONTROLLED VIA THE APPLICATION OF WATER, CALCIUM CHLORIDE OR OTHER APPROVED METHOD IN ACCORDANCE WITH SECTION 16-1 OF THE NJ STANDARDS.
16. TREES TO REMAIN AFTER CONSTRUCTION ARE TO BE PROTECTED WITH A SUITABLE FENCE INSTALLED AT THE DRIP LINE OR BEYOND IN ACCORDANCE WITH SECTION 9-1 OF THE NJ STANDARDS.
17. THE PROJECT OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFF-SITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
18. ANY REVISION TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE SUBMITTED TO THE DISTRICT FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION IN THE FIELD.
19. A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE THROUGHOUT CONSTRUCTION.
20. THE BERGEN COUNTY SOIL CONSERVATION DISTRICT MUST BE NOTIFIED, **IN WRITING**, AT LEAST 48 HOURS PRIOR TO ANY LAND DISTURBANCE. BERGEN COUNTY SOIL CONSERVATION DISTRICT, 700 KIRKPATRICK ROAD, SUITE 106, ORADEL, NJ 07648. TEL: 201-261-4405. FAX: 201-261-7573.
21. THE BERGEN COUNTY SOIL CONSERVATION DISTRICT MAY REQUEST ADDITIONAL MEASURES TO MINIMIZE ON OR OFF-SITE EROSION PROBLEMS DURING CONSTRUCTION.
22. THE OWNER MUST OBTAIN A DISTRICT ISSUED REPORT OF COMPLIANCE PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY. **THE DISTRICT REQUIRES AT LEAST ONE WEEK'S NOTICE TO FACILITATE THE SCHEDULING OF ALL REPORT OF COMPLIANCE INSPECTIONS.** ALL SITE WORK MUST BE COMPLETED, INCLUDING TEMPORARY/PERMANENT STABILIZATION OF ALL EXPOSED AREAS, PRIOR TO THE ISSUANCE OF A REPORT OF COMPLIANCE BY THE DISTRICT.

**STANDARD FOR DUST CONTROL**

**DEFINITION** - THE CONTROL OF DUST ON CONSTRUCTION SITES AND ROADS.  
**PURPOSE** - TO PREVENT BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON-AND OFF-SITE DAMAGE AND HEALTH HAZARDS, AND IMPROVE TRAFFIC SAFETY.  
**WHERE APPLICABLE** - THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR CONTROLLING DUST:  
**MULCHES** - SEE STANDARDS FOR STABILIZATION WITH MULCHES ONLY  
**VEGETATIVE COVER** - SEE STANDARDS FOR TEMPORARY VEGETATIVE COVER, PERMANENT VEGETATIVE COVER, AND PERMANENT STABILIZATION WITH SOIL.  
**SPRAY-ON ADHESIVES** - ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS.

	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS/ACRE
ANIONIC ASPHALT	7:1	COARSE SPRAY	1,200
EMULSION			
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN IN WATER	4:1	FINE SPRAY	300

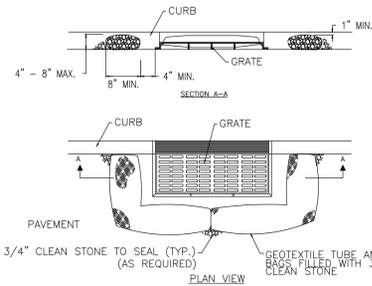
**TILLAGE** - TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGAN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, AND SPRING - TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.  
**SPRINKLING** - SITE IS SPRINKLED UNTIL THE SURFACE IS WET.  
**BARRIERS** - SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY, AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.  
**CALCIUM CHLORIDE** - SHALL BE IN THE FORM OF LOOSE, DRY GRANULES OR FLAKES FINE ENOUGH TO FEED THROUGH COMMONLY USED SPREADERS AT A RATE THAT WILL KEEP SURFACE MOST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. IF USED ON STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS OR ACCUMULATION AROUND PLANTS.  
**STONE** - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

**SOIL MANAGEMENT NOTE:**

ACCORDING TO STATE OF NEW JERSEY LAND USE CLASSIFICATION SYSTEM, THE SITE IS UNDER URBAN REDEVELOPMENT AREA (LAND USE CODE U110). THEREFORE, THE PROPOSED PROJECT DOES NOT REQUIRE COMPACTION REPAIRS, AS PER EXEMPTION #6 UNDER SOIL MANAGEMENT AND PREPARATION STANDARDS FOR SOIL AND SEDIMENT CONTROL IN NEW JERSEY.

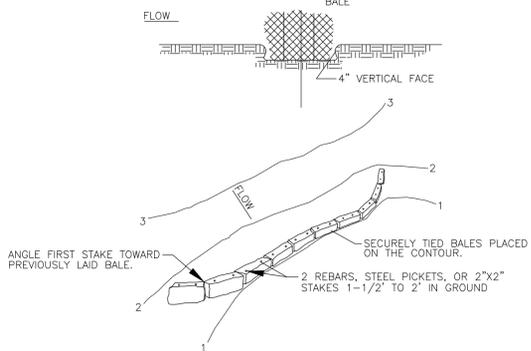
**NOTES:**

1. GEOTEXTILE TO BE WOVEN POLYPROPYLENE PRODUCT (177) BY SYNTHETIC INDUSTRIES INC. OR TERRATEX SC, BY WEBTEC INC., OR APPROVED EQUAL.
2. 3/4" CLEAN STONE CORE SHALL BE COMPLETELY CONTAINED WITHIN GEOTEXTILE. SEAMS SHALL BE SEWN OR CLOSED BY SUITABLE MECHANICAL MEANS TO PREVENT LEAKAGE OF STONE.
3. WHERE NO CURB IS PRESENT, BARRIER SHALL COMPLETELY ENCLOSE THE DRAIN INLET.
4. INLET GRATE OPENING IS TO BE KEPT CLEAR OF OBSTRUCTIONS AT ALL TIMES.
5. THE PROTECTION DEVICE WILL BE DESIGNED TO CAPTURE OR FILTER RUNOFF FROM THE 1 HOUR 24 HOUR STORM EVENT AND SHALL SAFELY CONVEY HIGHER FLOWS DIRECTLY INTO THE STORM SEWER SYSTEM.
6. OTHER METHODS THAT ACCOMPLISH THE PURPOSE OF STORM SEWER INLET PROTECTION MAY BE USED IF APPROVED BY THE SOIL CONSERVATION DISTRICT.
7. INSPECTIONS SHALL BE FREQUENT. MAINTENANCE, REPAIR, AND REPLACEMENT SHALL BE MADE PROMPTLY, AS NEEDED. THE BARRIER SHALL BE REMOVED WHEN THE AREA DRAINING TOWARDS THE INLET HAS BEEN STABILIZED.



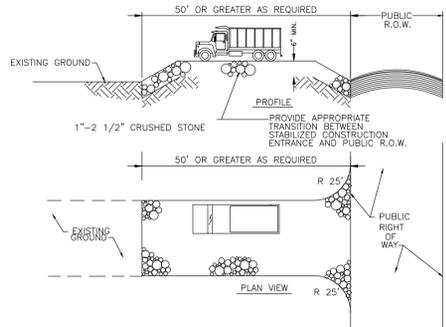
**INLET FILTER DETAIL**

NOT TO SCALE



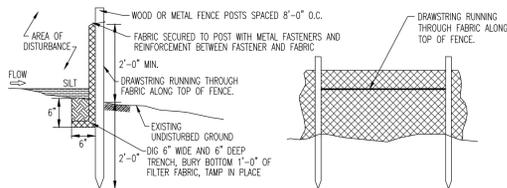
**STRAW BALE DIKE DETAIL**

NOT TO SCALE



**STABILIZED CONSTRUCTION ENTRANCE**

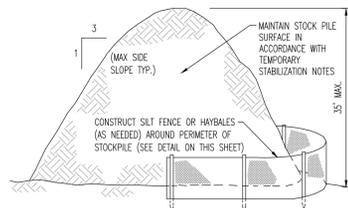
NOT TO SCALE



1. PLACE SILT FENCE AT LOCATIONS AS SHOWN ON THE SOIL EROSION AND SEDIMENT CONTROL PLAN.
2. THE SLOPE OF THE LAND FOR AT LEAST 30 FEET ADJACENT TO ANY SILT FENCE SHALL NOT EXCEED 5 PERCENT.
3. SILT FENCE SHALL BE INSTALLED SO WATER CANNOT PRESS THE FENCE AROUND THE SIDES.
4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE AS PROMPTLY AS POSSIBLE.
5. SILT FENCE SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT UNLESS OTHERWISE INSTRUCTED BY THE TOWNSHIP ENGINEER OR SOIL CONSERVATION DISTRICT.
6. THE BARRIER SHALL BE REMOVED WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. FENCE POSTS SHALL BE SPACED 8 FEET CENTER-TO-CENTER OR CLOSER. THEY SHALL EXTEND AT LEAST 2 FEET INTO THE GROUND AND EXTEND AT LEAST 2 FEET ABOVE GROUND. POSTS SHALL BE CONSTRUCTED OF HARDWOOD A MIN. DIAMETER THICKNESS OF 1 1/2 INCHES.
8. A METAL FENCE WITH 6 INCH OR SMALLER OPENINGS AND AT LEAST 2 FEET HIGH MAY BE UTILIZED, FASTENED TO THE FENCE POSTS, TO PROVIDE REINFORCEMENT AND SUPPORT TO THE GEOTEXTILE FABRIC WHERE SPACE FOR OTHER PRACTICES IS LIMITED AND HEAVY SEDIMENT LOADING IS EXPECTED.
9. A GEOTEXTILE FABRIC, RECOMMENDED FOR SUCH USE BY THE MANUFACTURER, SHALL BE BURIED AT LEAST 6 INCHES DEEP IN THE GROUND. THE FABRIC SHALL EXTEND AT LEAST 2 FEET ABOVE GROUND. FABRIC MUST BE SECURELY FASTENED TO THE POSTS USING A SYSTEM CONSISTING OF METAL FASTENERS (NAILS OR STAPLES) AND HIGH STRENGTH REINFORCEMENT MATERIAL (NYLON WEBBING, GRIMETS, WASHERS, ETC.) PLACED BETWEEN THE FASTENER AND THE GEOTEXTILE FABRIC. THE FASTENING SYSTEM SHALL RESIST TEARING AWAY FROM THE POST. THE FABRIC SHALL INCORPORATE A DRAINSTRING IN THE TOP PORTION OF THE FENCE FOR ADDED STRENGTH.

**SILT FENCE DETAIL**

NOT TO SCALE



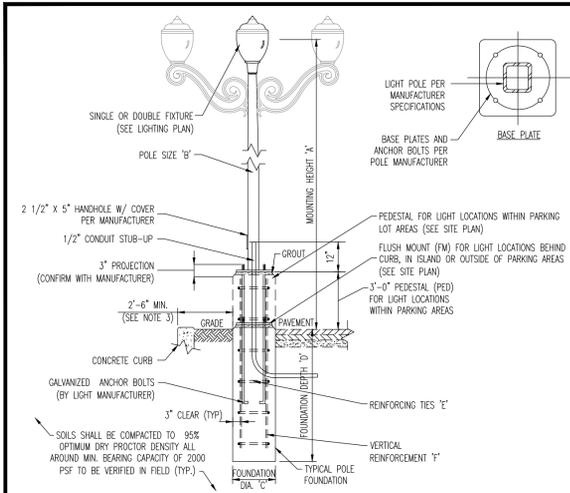
**TEMPORARY STOCKPILE DETAIL**

NOT TO SCALE

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<p>LAND DEVELOPMENT CONSULTING • PERMITTING • GEOTECHNICAL • ENVIRONMENTAL • SURVEY • PLANNING &amp; ZONING</p>		246 Main Street - Suite 110 Chester, NJ 07930 T: 908.878.0228 F: 908.878.0222 www.dynancc.com	
TITLE: <b>SOIL EROSION &amp; SEDIMENT CONTROL DETAILS</b>			
PROJECT: <b>CSH PASCACK, LLC</b> <b>PROPOSED ASSISTED LIVING</b> BLOCK 2202, LOT 1 620 PASCACK ROAD (CR 502) TOWNSHIP OF WASHINGTON, BERGEN COUNTY, NEW JERSEY		JOB No: 1423-99-003 DATE: 01/10/2020 DRAWN BY: LZ DESIGNED BY: MLR CHECKED BY: DTS CHECKED BY: -	
PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 36618		PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 53572	
JOSEPH G. JAWORSKI		DANIEL T. SEHNAL	
PROTECT YOURSELF ALL UTILITIES REQUIRE NOTIFICATION OF LOCATIONS, DEPTHS, OR ANY OTHER INFORMATION TO AVOID THE DANGER OF SERVICE INTERRUPTIONS OR INJURY.		SHEET No: <b>13</b> OF 21 Rev. # 6	





NOTE: 1. CONTRACTOR TO CONFIRM ALL LIGHT POLE & FIXTURE DIMENSIONS PRIOR TO CONSTRUCTION.  
 2. PROPOSED POLE IN COMBINATION WITH CONCRETE PEDESTAL TO EQUAL MOUNTING HEIGHT 'A'. ACTUAL POLE HEIGHT TO BE ADJUSTED ACCORDINGLY.  
 3. PROPOSED CONCRETE FOUNDATION AND POLE TO BE CONSTRUCTED WITHIN SUBJECT PROPERTY UNLESS OTHERWISE NOTED. SETBACK FROM CURB IS PREFERRED BUT TO BE ADJUSTED TO PREVENT ENCRUMBMENT OVER PROPERTY LINE.  
 4. BASE PLATE & ANCHOR BOLTS PER POLE MANUFACTURER. LARGER FOOTING DIAMETER AND/OR ALTERNATE ARRANGEMENT OF REINFORCING STEEL MAY BE REQUIRED TO ACCOMMODATE ANCHOR BOLT CONFIGURATION. CONTRACTOR RESPONSIBLE TO COORDINATE DIMENSIONAL REQUIREMENTS FOR BASE PLATE, ANCHOR BOLTS & REINFORCING STEEL PRIOR TO CONSTRUCTION.

LIGHT POLE FOUNDATION SCHEDULE	
MOUNTING HEIGHT ABOVE GRADE 'A'	12'
POLE DIA. 'B'	6" SQUARE (OR PER MANUFACTURER)
# OF FIXTURES	SINGLE OR DOUBLE
FOUNDATION DIAMETER 'C'	18" DIA. ROUND
FOUNDATION DEPTH 'D'	18"
REINFORCING TIES 'E'	#4 @ 16" O.C.
VERTICAL REINFORCEMENT 'F'	(6) #5 BARS EQUALLY SPACED

**SOIL NOTES**

- FOOTING DESIGN BASED ON ASSUMED MAXIMUM ALLOWABLE SOILS BEARING CAPACITY OF 2,000 PSF. CONTRACTOR RESPONSIBLE TO VERIFY ADEQUACY OF ASSUMED BEARING CAPACITY PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED IF INCONSISTENCIES EXIST.
- SUBGRADE TO BE FREE OF ORGANICS AND BE SUITABLE, COMPACTED MATERIAL.

**CONCRETE NOTES**

- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS WITH A MINIMUM CEMENT CONTENT OF 600 POUNDS PER CUBIC YARD FOR ALL FOOTINGS.
- ALL CONCRETE SHALL HAVE A SLUMP OF NO GREATER THAN 4" TO WITHIN A TOLERANCE OF 1".
- ALL EXPOSED CONCRETE SHALL BE AIR-ENTRAINED (WITHIN 1% TOLERANCE), CONFORMING TO ASTM C260.
- REINFORCING FRAMEWORK AND PLACEMENT OF CONCRETE SHALL COMPLY WITH GOOD CONSTRUCTION PRACTICES AND BE IN ACCORDANCE WITH ALL LOCAL GOVERNING CODES AND REGULATIONS AS WELL AS THE ACI AND UNIFORM BUILDING CODE.

**DECORATIVE LIGHT FOUNDATION DETAIL**  
NOT TO SCALE

**SLIM™** 5

**Specifications**

- Covers footprint of most traditional wallpucks
- 37W replaces 200W MH, 57W replaces 250W MH, 62W replaces 320W MH
- Easy installation with hinged access, bubble level and multiple conduit entries
- Ultra-high efficiency, up to 115 lm/W
- Available as cutoffs or full cutoffs
- Tight-lock gasket keeps elements out
- 100,000-Hour LED lifespan

**Dimensions and weight**

Model	Weight (lbs)	Height (in)	Width (in)	Depth (in)
SLIM™ 37W	7.5	12.5	12.5	12.5
SLIM™ 57W	11	17.5	17.5	17.5
SLIM™ 62W	13	22.5	22.5	22.5

**Photometrics**

37W - 15' Mounting Height, 57W - 18' Mounting Height, 62W - 20' Mounting Height

**Ordering information**

Product Family	Cutoff	Wattage	Color Temp	Finish	Driver Options	Photocell Options
SLIM	Blank	37	37W	Blank	None	None
	Full Cutoff	62	62W	White	None	None

**DECORATIVE OUTDOOR POSTOP LED DETAIL**  
NOT TO SCALE

Diagram showing a decorative outdoor postop LED detail. It includes a cross-section of the post with a diameter of 1.625" and a height of 27". The post is mounted on a 14" steel base plate. The detail shows the mounting hardware, including a 1/2" x 5" anchor bolt and a 3" x 3" pedestal. The post is finished with a powder coat and has a gasketed top. The diagram also shows a top view of the post with a 3" x 3" pedestal for light locations.

**WALL LIGHT DETAIL 'W1'**  
NOT TO SCALE

**GREASE TRAP DETAIL**  
NOT TO SCALE

Diagram showing a grease trap detail. It includes a cross-section of the trap with a depth of 6" and a width of 6". The trap is made of monolithic concrete and has a 6" PVC double tee manifold. The diagram shows the inlet and outlet connections, a tapered wall, and a sleeve inlet. The trap is designed to catch grease and solids before they enter the sewer system.

**Specifications**

CONCRETE: CLASS 1 CONCRETE WITH DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR, WALL AND BAFFLE (NO JOINTS BELOW WATER LEVEL) GROSS EMPTY WEIGHT OF APPROXIMATELY 10,000 LBS.

REINFORCEMENT: GRADE 60 REINFORCED WITH STEEL REBAR CONFORMING TO ASTM A615 ON REQUIRED CENTERS OR EQUAL DESIGN FOR AASHTO H-20 TRAFFIC LOADING.

C.I. CASTINGS: MANHOLE FRAMES, COVERS OR GRATES ARE MANUFACTURED OF GREY CAST IRON CONFORMING TO ASTM A48-76 CLASS 30. MANHOLE SHALL HAVE 24 INCH INSIDE DIAMETER AND BE TRAFFIC DUTY.

ENGINEERING DATA: INTERCEPTOR IS STRUCTURALLY AND HYDRAULICALLY ENGINEERED CONFORMING TO UNIFORM PLUMBING CODE. NOMINAL LIQUID CAPACITY IS 1500 GALLONS WITH GREASE & SOLIDS RETENTION CAPACITY OF APPROXIMATELY 1,770 & 3,130 LBS. RESPECTIVELY. RECOMMENDED FOR AVERAGE FLOW RATE OF 5 GPM & INTERMITTENT FLOW RATE UP TO 13 GPM.

FIELD EXCAVATION AND PREPARATION SHALL BE COMPLETED PRIOR TO DELIVERY OF INTERCEPTOR. USE DIMENSIONAL DATA AS SHOWN.

GREASE TRAP TO BE EPOXY COATED.

MINIMUM EQUAL TO: PARK EQUIP. CO. (1-800-256-8041)  
GREASE TRAP MODEL NO. GT-1500

**POSTOP LED Series Luminaire (Formerly RPE LED)**  
**DECORATIVE OUTDOOR**

Diagram showing a postop LED luminaire detail. It includes a cross-section of the luminaire with a maximum weight of 34 lbs and a maximum effective projected area of 1.3 sq. ft. The luminaire is mounted on a 16" dia. post. The detail shows the mounting hardware, including a 1/2" x 5" anchor bolt and a 3" x 3" pedestal. The luminaire is finished with a powder coat and has a gasketed top. The diagram also shows a top view of the luminaire with a 3" x 3" pedestal for light locations.

**ORDERING INFORMATION:**

**HOUSING STYLE:** POST TOP (Formerly RPE)

**COLOR TEMPERATURE:** 27K = 2700 CCT, 30K = 3000 CCT, 40K = 4000 CCT, 50K = 5000 CCT

**VOLTAGE:** A5 = AUTO-SENSING (120-277V 50/60 HZ), A6 = AUTO-SENSING (240-480V 50/60 HZ)

**COLOR:** B1 = BLACK, B2 = BRONZE, B3 = GRAPHEITE, B4 = GREEN, B5 = GREY, B6 = PRIME PAINT, B7 = WHITE, CMC = CUSTOM MATCH COLOR, TDC = TIGER DRIFLAC, GLAS REFRACTOR (PVC), POLYCARBONATE REFRACTOR

**RIBS:** SR = STANDARD SOLID RIB, SRX = SPURTED RIB

**LED PERFORMANCE PACKAGE (FOR DETAILS):** P10 = AS-35W/AH-35W, P20 = AS-55W/AH-55W, P30 = AS-75W/AH-75W, P40 = AS-105W/AH-105W, P50 = AS-144W/AH-157W

**OPTICS:** ACYLIC REFRACTOR A1 = TYPE 3, A2 = TYPE 3, GLAS REFRACTOR A3 = TYPE 3, POLYCARBONATE REFRACTOR P1 = TYPE 3, P2 = TYPE 5

**ACCESSORIES:** DECORATIVE FIELD INSTALLED OPTIONS: RPPC = RECURVING CAPSA (SELECT COLOR), RPPC\* = RECURVING FALGALISE (SELECT COLOR), RPPC\*\* = RECURVING CAST SCROLL (SELECT COLOR), HOUSE SIDE SHIELD FIELD INSTALLED OPTIONS: PH50 = HOUSE SIDE SHIELD 50 DEGREE, PH52 = HOUSE SIDE SHIELD 52 DEGREE, PH55 = HOUSE SIDE SHIELD 55 DEGREE, PH58 = HOUSE SIDE SHIELD 58 DEGREE, PH60 = HOUSE SIDE SHIELD 60 DEGREE, PH62 = HOUSE SIDE SHIELD 62 DEGREE, PH65 = HOUSE SIDE SHIELD 65 DEGREE, PH68 = HOUSE SIDE SHIELD 68 DEGREE, PH70 = HOUSE SIDE SHIELD 70 DEGREE, PH72 = HOUSE SIDE SHIELD 72 DEGREE, PH75 = HOUSE SIDE SHIELD 75 DEGREE, PH78 = HOUSE SIDE SHIELD 78 DEGREE, PH80 = HOUSE SIDE SHIELD 80 DEGREE, PH82 = HOUSE SIDE SHIELD 82 DEGREE, PH85 = HOUSE SIDE SHIELD 85 DEGREE, PH88 = HOUSE SIDE SHIELD 88 DEGREE, PH90 = HOUSE SIDE SHIELD 90 DEGREE, PH92 = HOUSE SIDE SHIELD 92 DEGREE, PH95 = HOUSE SIDE SHIELD 95 DEGREE, PH98 = HOUSE SIDE SHIELD 98 DEGREE, PH100 = HOUSE SIDE SHIELD 100 DEGREE

**FOR COMPATIBLE OPTIONS, REFER TO THE OPTION MATRIX ON PAGE 3 OF 4**

**FLAG POLE DETAIL**  
N.T.S.

Diagram showing a flag pole detail. It includes a cross-section of the pole with a diameter of 4" and a height of 27". The pole is mounted on a 14" steel base plate. The detail shows the mounting hardware, including a 1/2" x 5" anchor bolt and a 3" x 3" pedestal. The pole is finished with a powder coat and has a gasketed top. The diagram also shows a top view of the pole with a 3" x 3" pedestal for light locations.

**Specifications**

Model ECSA25

4" - 14 gauge spun aluminum ball gold anodized.

Single sheave truck, cast aluminum, stationary, non-fouling type

1 Set of halyard, #8 poly

2 Bronze oval snaps with covers

1 - 9" Cast Aluminum Cleats

Aluminum flash collar

3000 PSI concrete

Hardwood wedges (supplied by others)

Dry sand lightly tamped after aligning pole

Foundation sleeve - 16 ga hot dip galvanized steel

14" Steel base plate

All shafts with overall length of more than 36" are shipped in two sections.

Each section matched marked for field assembly. Exposed portion of rim sleeve must be lubricated prior to assembly.

1-1/2" maximum shop gap allowed for field fitting (aim for tight joint)

**DOSB1 Bollard & Light Column Series**  
**Bollard**

Diagram showing a bollard detail. It includes a cross-section of the bollard with a diameter of 4" and a height of 27". The bollard is mounted on a 14" steel base plate. The detail shows the mounting hardware, including a 1/2" x 5" anchor bolt and a 3" x 3" pedestal. The bollard is finished with a powder coat and has a gasketed top. The diagram also shows a top view of the bollard with a 3" x 3" pedestal for light locations.

**Specifications**

Material: Made from cast (356) aluminum, mechanically assembled.

Mounting: High power factor of 90%. Assembled on a standard removable tray with quick disconnect plug.

Finish: Round shape, made from cast (356) aluminum, chrome silver, welded to the base.

Base cover: Made from cast (356) aluminum, mechanically secured to the anchor plate.

Notes: "Dry dip" chemical etching preparation. Luminaire powder coat from Franklin Co. - interior color selection as per ASTM D2244, and contacting luminaire manufacturer for complete testing procedures.

**LED Wattage and Lumen Values for S26A / S26N with Clear globe**

Ordering Code	Total Lumens (lm)	Average System Output (lm/W)	System Efficiency (%)	LED Lumens Output (lm)	LED Efficacy (lm/W)	BUS Lumens Output (lm)	BUS Efficacy (lm/W)	LE4 Lumens Output (lm)	LE4 Efficacy (lm/W)	LE5 Lumens Output (lm)	LE5 Efficacy (lm/W)	
15WLED4K-C-4	32	37	282	78	81-82-G1	2800	78	81-82-G1	2800	78	81-82-G1	
15WLED4K-C-4	32	50	440	77	81-82-G1	4034	75	81-82-G1	4040	77	81-82-G1	
15WLED4K-C-4	32	700	73	5232	72	81-82-G1	5200	70	81-82-G1	5225	72	81-82-G1
15WLED4K-C-4	48	350	55	4338	79	81-82-G1	4320	78	81-82-G1	4310	79	81-82-G1
15WLED4K-C-4	48	350	81	5233	77	81-82-G1	5200	75	81-82-G1	5204	77	81-82-G1
15WLED4K-C-4	48	700	106	7948	74	81-82-G1	7932	72	81-82-G1	7937	74	81-82-G1

**BOLLARD LIGHT DETAIL**  
NOT TO SCALE

Diagram showing a bollard light detail. It includes a cross-section of the bollard with a diameter of 4" and a height of 27". The bollard is mounted on a 14" steel base plate. The detail shows the mounting hardware, including a 1/2" x 5" anchor bolt and a 3" x 3" pedestal. The bollard is finished with a powder coat and has a gasketed top. The diagram also shows a top view of the bollard with a 3" x 3" pedestal for light locations.

**Specifications**

Material: Made from cast (356) aluminum, mechanically assembled.

Mounting: High power factor of 90%. Assembled on a standard removable tray with quick disconnect plug.

Finish: Round shape, made from cast (356) aluminum, chrome silver, welded to the base.

Base cover: Made from cast (356) aluminum, mechanically secured to the anchor plate.

Notes: "Dry dip" chemical etching preparation. Luminaire powder coat from Franklin Co. - interior color selection as per ASTM D2244, and contacting luminaire manufacturer for complete testing procedures.

**POST TOP SQUARE LANTERN DETAIL**  
NOT TO SCALE

Diagram showing a post top square lantern detail. It includes a cross-section of the lantern with a diameter of 4" and a height of 27". The lantern is mounted on a 14" steel base plate. The detail shows the mounting hardware, including a 1/2" x 5" anchor bolt and a 3" x 3" pedestal. The lantern is finished with a powder coat and has a gasketed top. The diagram also shows a top view of the lantern with a 3" x 3" pedestal for light locations.

**Specifications**

Material: Made from cast (356) aluminum, mechanically assembled.

Mounting: High power factor of 90%. Assembled on a standard removable tray with quick disconnect plug.

Finish: Round shape, made from cast (356) aluminum, chrome silver, welded to the base.

Base cover: Made from cast (356) aluminum, mechanically secured to the anchor plate.

Notes: "Dry dip" chemical etching preparation. Luminaire powder coat from Franklin Co. - interior color selection as per ASTM D2244, and contacting luminaire manufacturer for complete testing procedures.

**SIGN DETAIL**  
SIGN DETAIL

Diagram showing a sign detail. It includes a cross-section of the sign with a height of 5'-0" and a width of 7'-5". The sign is mounted on a 14" steel base plate. The detail shows the mounting hardware, including a 1/2" x 5" anchor bolt and a 3" x 3" pedestal. The sign is finished with a powder coat and has a gasketed top. The diagram also shows a top view of the sign with a 3" x 3" pedestal for light locations.

**Specifications**

Material: Made from cast (356) aluminum, mechanically assembled.

Mounting: High power factor of 90%. Assembled on a standard removable tray with quick disconnect plug.

Finish: Round shape, made from cast (356) aluminum, chrome silver, welded to the base.

Base cover: Made from cast (356) aluminum, mechanically secured to the anchor plate.

Notes: "Dry dip" chemical etching preparation. Luminaire powder coat from Franklin Co. - interior color selection as per ASTM D2244, and contacting luminaire manufacturer for complete testing procedures.

**S26A-S26N Square Lantern LED Post Top Urban Luminaire**

Diagram showing a square lantern LED post top urban luminaire detail. It includes a cross-section of the luminaire with a diameter of 4" and a height of 27". The luminaire is mounted on a 14" steel base plate. The detail shows the mounting hardware, including a 1/2" x 5" anchor bolt and a 3" x 3" pedestal. The luminaire is finished with a powder coat and has a gasketed top. The diagram also shows a top view of the luminaire with a 3" x 3" pedestal for light locations.

**Dimensions**

S26A: EFL: 3.25 sq ft, Weight: 45 lbs (20 kg)

S26N: EFL: 3.25 sq ft, Weight: 45 lbs (20 kg)

**LED Wattage and Lumen Values for S26A / S26N with Clear globe**

Ordering Code	Total Lumens (lm)	Average System Output (lm/W)	System Efficiency (%)	LED Lumens Output (lm)	LED Efficacy (lm/W)	BUS Lumens Output (lm)	BUS Efficacy (lm/W)	LE4 Lumens Output (lm)	LE4 Efficacy (lm/W)	LE5 Lumens Output (lm)	LE5 Efficacy (lm/W)	
15WLED4K-C-4	32	37	282	78	81-82-G1	2800	78	81-82-G1	2800	78	81-82-G1	
15WLED4K-C-4	32	50	440	77	81-82-G1	4034	75	81-82-G1	4040	77	81-82-G1	
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15WLED4K-C-4	48	350	81	5233	77	81-82-G1	5200	75	81-82-G1	5204	77	81-82-G1
15WLED4K-C-4	48	700	106	7948	74	81-82-G1	7932	72	81-82-G1	7937	74	81-82-G1

**CONSTRUCTION DETAILS**

**DYNAMIC ENGINEERING**  
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245 Main Street - Suite 110  
Chester, NJ 07930  
T: 908.878.8228  
F: 908.878.0222  
www.dynamiceng.com

PROJECT: CSH PASCACK, LLC PROPOSED ASSISTED LIVING BL. C/CK - 2/202 - LOT 1  
620 PASCACK ROAD (CR 502)  
TOWNSHIP OF WASHINGTON, BERGEN COUNTY, NEW JERSEY

TITLE: CONSTRUCTION DETAILS

DATE: 01/10/2020

JOB NO: 1423-99-003

SCALE: (H) AS SHOWN (V) SHOWN

DRAWN BY: AOV

DESIGNED BY: MLR

CHECKED BY: DTS

CHECKED BY: -

JOSEPH G. JAWORSKI DANIEL T. SEHNAL

PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 36618

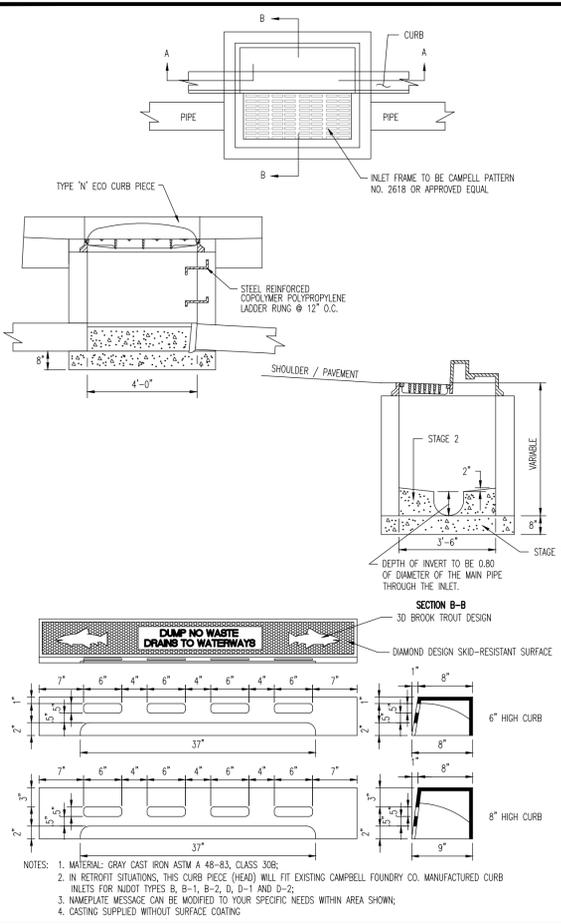
PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 53572

811 PROTECT YOURSELF  
ALL UTILITIES MUST BE LOCATED PRIOR TO ANY EXCAVATION OR DRILLING OPERATIONS. IT IS THE USER'S RESPONSIBILITY TO OBTAIN THE LATEST UTILITY RECORDS AND TO VERIFY THE ACCURACY OF THE INFORMATION PROVIDED THEREIN.

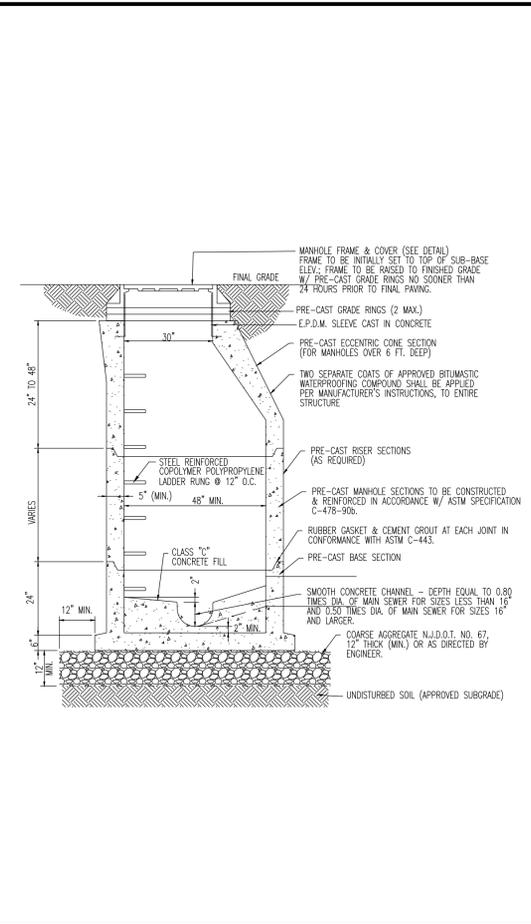
FOR STATE PROJECT NUMBERS VISIT: www.call811.com

Rev. # 6

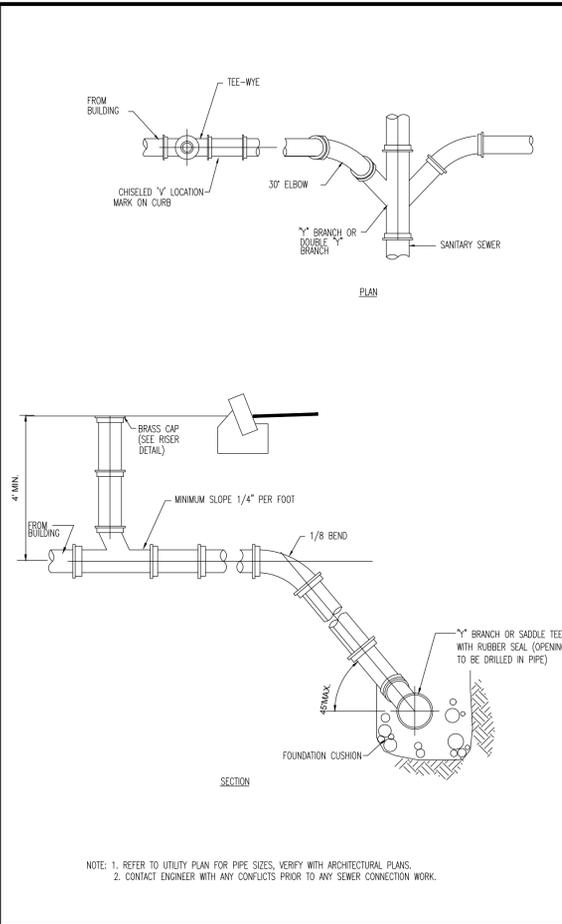
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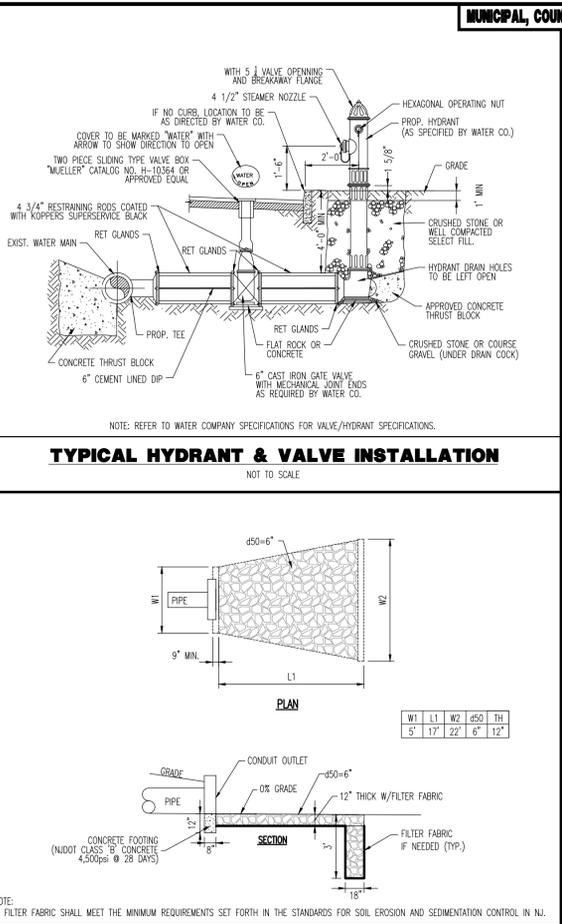
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NOT TO SCALE



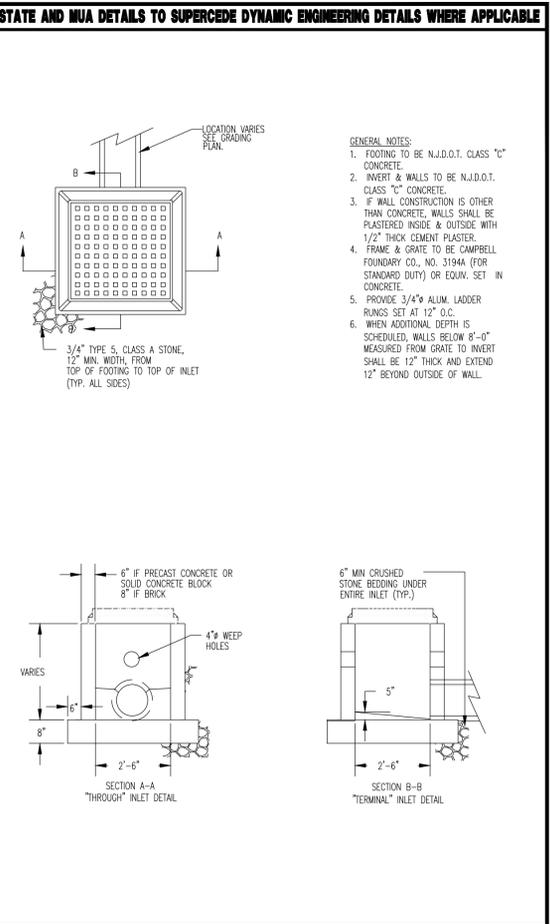
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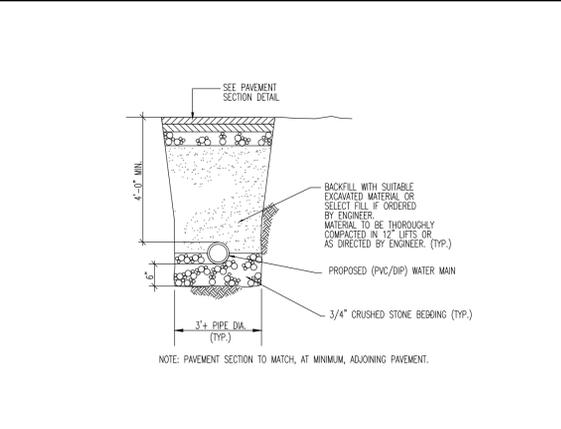
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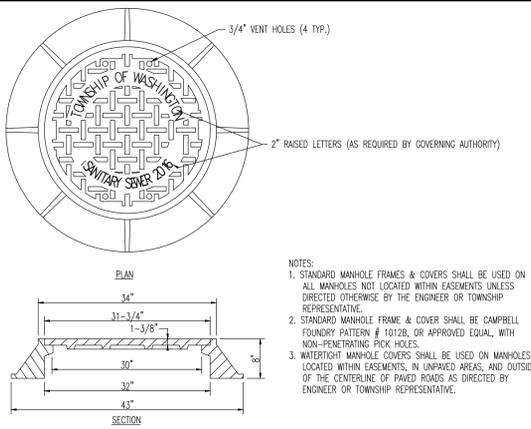
**TYPICAL HYDRANT & VALVE INSTALLATION**  
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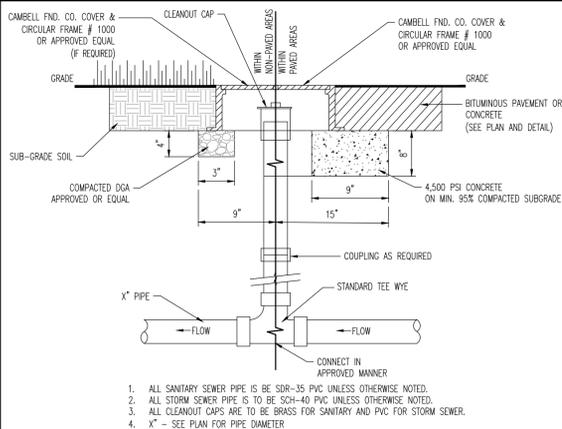
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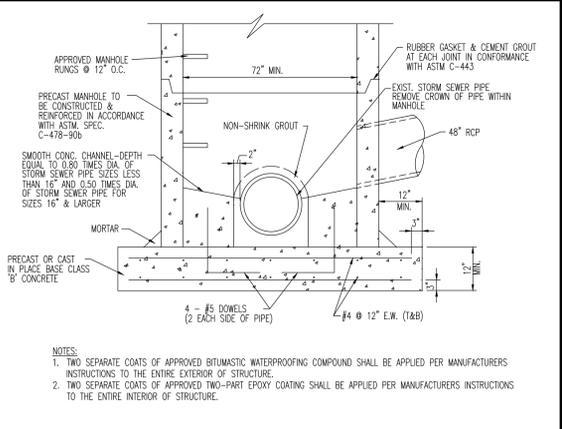
**WATER SERVICE TRENCH DETAIL**  
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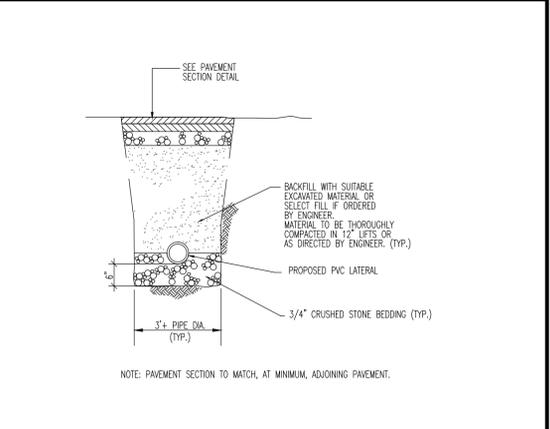
**SANITARY MANHOLE FRAME DETAIL**  
NOT TO SCALE



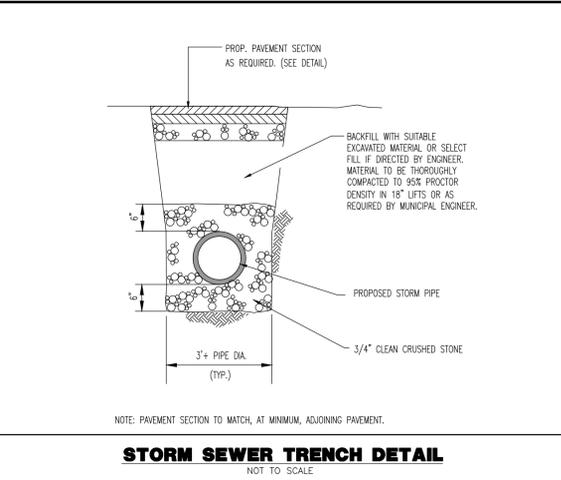
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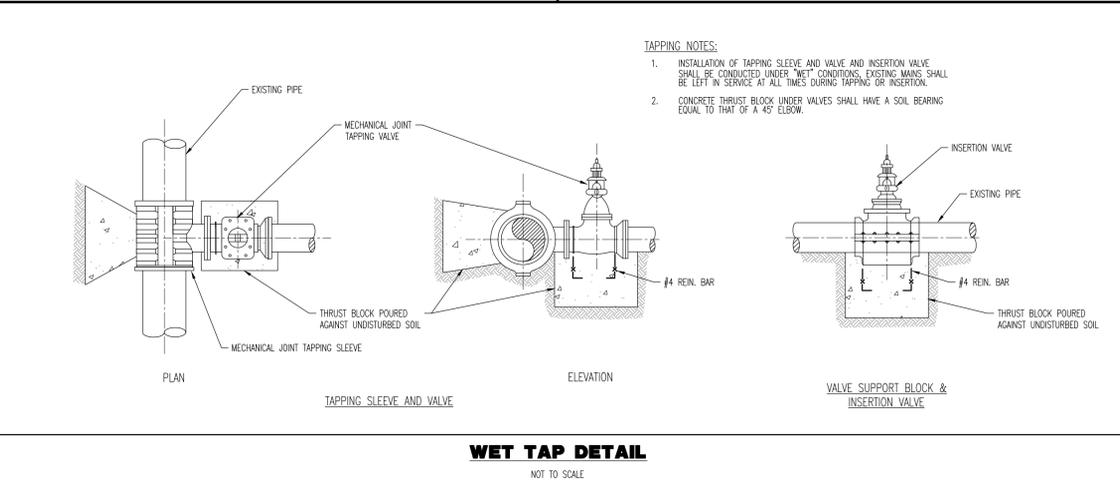
**STORM SEWER DOGHOUSE MANHOLE DETAIL**  
NOT TO SCALE



**SANITARY SEWER TRENCH DETAIL**  
NOT TO SCALE



**STORM SEWER TRENCH DETAIL**  
NOT TO SCALE



**WET TAP DETAIL**  
NOT TO SCALE

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

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F: 908.878.0222  
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**CONSTRUCTION DETAILS**

PROJECT: **CSH PASCACK, LLC**  
**PROPOSED ASSISTED LIVING**  
BLOCK 2202, LOT 1  
620 PASCACK ROAD (CR 502)  
TOWNSHIP OF WASHINGTON, BERGEN COUNTY, NEW JERSEY

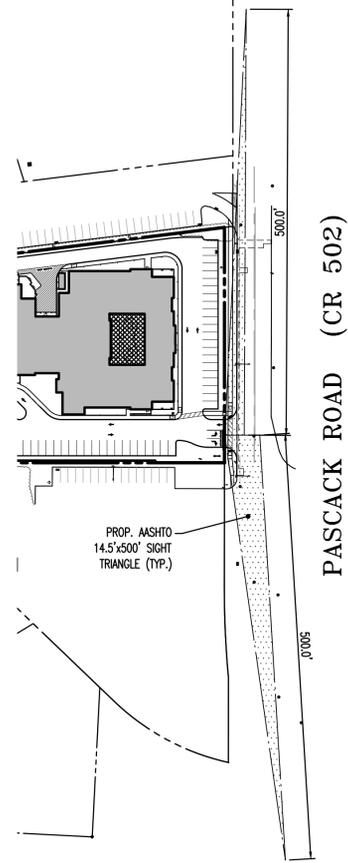
JOB No: 1423-99-003      DATE: 01/10/2020  
DRAWN BY: AOV      SCALE: (H) AS SHOWN  
DESIGNED BY: MLR      SHEET No:  
CHECKED BY: DTS  
CHECKED BY: -

**JOSEPH G. JAWORSKI**      **DANIEL T. SEHNAL**

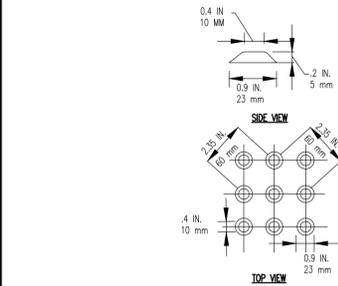
PROFESSIONAL ENGINEER      PROFESSIONAL ENGINEER  
NEW JERSEY LICENSE No. 36618      NEW JERSEY LICENSE No. 53572

**16**  
OF 21  
Rev. # 6

Plotted: 09/14/20 - 9:41 AM, By: russell, Product Ver: 23.1a (LMS Tech)  
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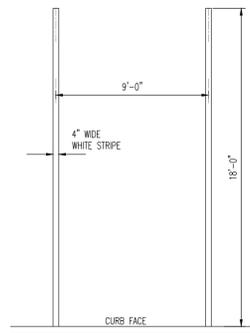


**SIGHT TRIANGLE DETAIL**  
NOT TO SCALE

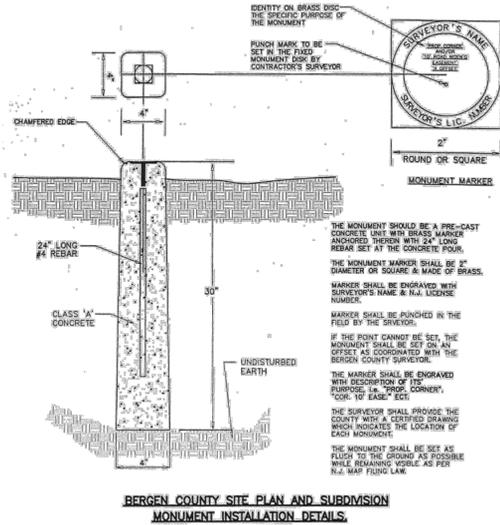


**TRUNCATED DOME PATTERN FOR A.D.A. DETECTABLE WARNING SURFACE**  
NOT TO SCALE

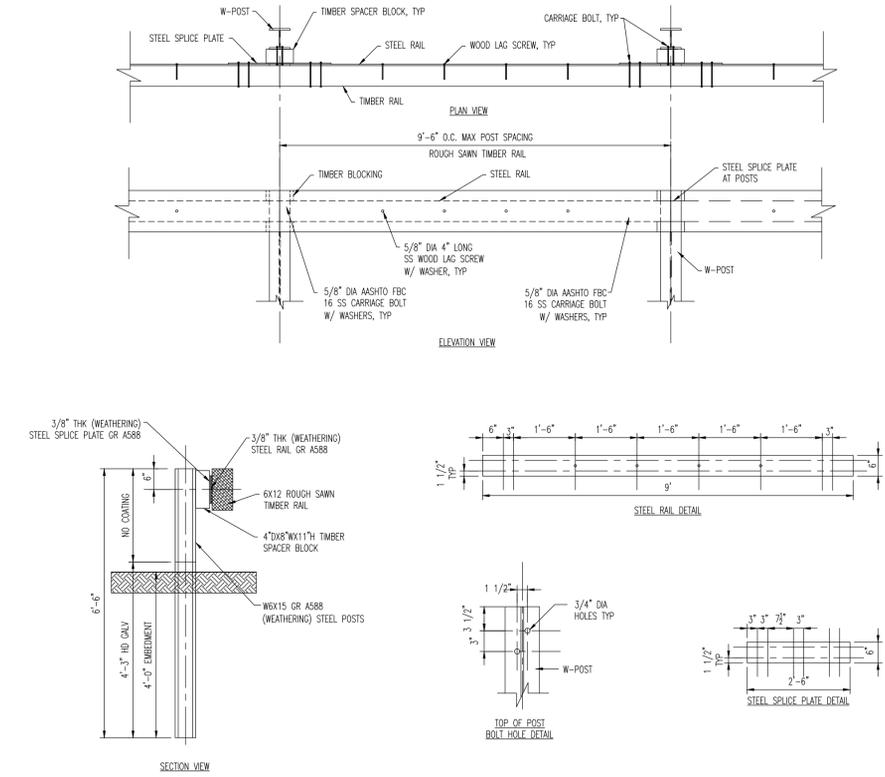
NOTES:  
1. DETECTABLE WARNINGS SHALL BE A PRE-MANUFACTURED ADJOURING TILE TACTILE SYSTEM OR APPROVED EQUIVALENT.  
2. WARNING SURFACE SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT OR DARK ON LIGHT PER LATEST A.D.A. ACCESSIBILITY GUIDELINES.  
3. CONTRACTOR TO COORDINATE SPECIFIC SYSTEM AND MATERIALS UTILIZED WITH THE ENGINEER TO ENSURE LOCAL, STATE AND A.D.A. COMPLIANCE PRIOR TO CONSTRUCTION.



**PARKING STALL STRIPING DETAIL**  
NOT TO SCALE

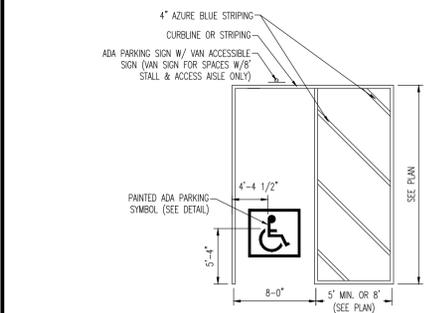


**BERGEN COUNTY MONUMENT DETAIL**  
N.T.S.



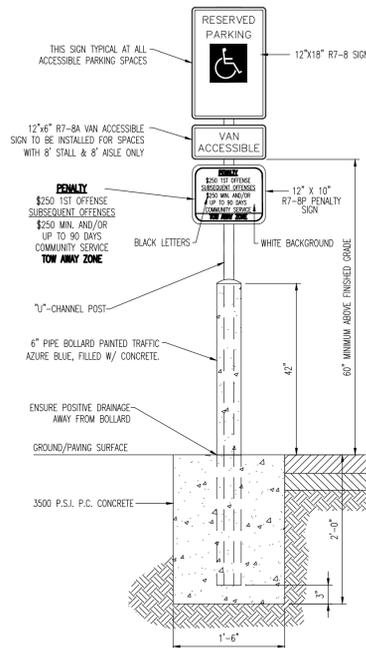
NOTE: THIS GUIDE RAIL SYSTEM HAS BEEN CRASH TESTED BY THE FEDERAL HIGHWAY ADMINISTRATION IN ACCORDANCE TO THE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM REPORT 350 FOR CATEGORIZATION AS TEST LEVEL THREE (TL-3). TL-3 CONSISTS OF CRASH TESTS WITH A PASSENGER CAR AND PICKUP TRUCK TRAVELING AT 20 DEG AND 25 DEG, RESPECTIVELY.

**AESTHETIC GUIDERAIL DETAIL**  
NOT TO SCALE



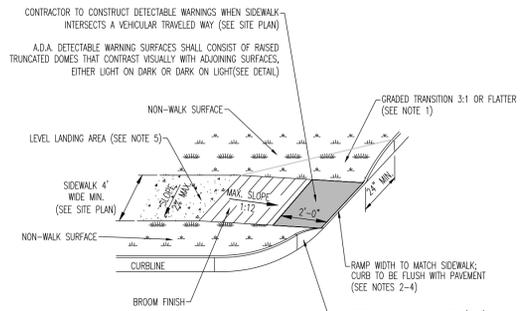
NOTES:  
1. PAVEMENT STRIPING FOR ALL ADA PARKING SPACES SHALL BE PAINTED AZURE BLUE.  
2. WHERE AN ADA PARKING STALL MEETS A STANDARD PARKING STALL, AN AZURE BLUE AND WHITE PAVEMENT STRIPE SHALL BE PAINTED.  
3. ALL PAVEMENT STRIPING, MARKINGS AND SIGNAGE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST ADA ACCESSIBILITY GUIDELINES.

**ADA STALL MARKINGS DETAIL**  
NOT TO SCALE



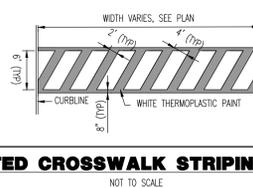
NOTES:  
1. IF AT THE TIME OF CONSTRUCTION THE STATE OF NEW JERSEY HAS APPROVED FINES/PENALTIES DIFFERENT THAN THOSE INDICATED ON THIS DETAIL, CONTRACTOR IS TO PROVIDE SIGNAGE INDICATING THE CURRENT FINES/PENALTIES AS APPROVED BY THE STATE OF NEW JERSEY.  
2. VAN ACCESSIBLE SIGN SHALL BE 60" MINIMUM ABOVE FINISHED GRADE WHERE APPLICABLE. WHEN VAN ACCESSIBLE IS NOT REQUIRED, R7-8 SIGN SHALL BE SET AT 60" MINIMUM ABOVE FINISHED GRADE.

**A.D.A. PARKING SIGN ON BOLLARD DETAIL**  
NOT TO SCALE

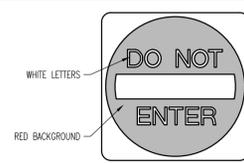


NOTES:  
1. WHERE A PEDESTRIAN CIRCULATION PATH CROSSES THE CURB RAMP, FLARE SIDES SHALL BE PROVIDED AT A SLOPE NO STEEPER THEN 1:10.  
2. CONSTRUCT DEPRESSIONED CURB FOR CURB RAMP FLUSH TO ADJACENT PAVEMENT. GRADE FLOW LINE TO ENSURE POSITIVE DRAINAGE AND PREVENT PONDING. FOR LEVEL TURNING SPACES BEHIND DEPRESSIONED CURB, ADJUST SLOPES TO PROVIDE POSITIVE DRAINAGE.  
3. CURB RAMP MAY NOT EXTEND INTO ANY PORTION OF THE PARKING SPACE OR ASSOCIATED STRIPED ISLAND.  
4. COUNTER SLOPES OF ADJOINING GUTTERS AND PAVEMENT SHALL NOT BE STEEPER THAN 1:20 WITH A MAX. CROSS SLOPE OF 2%.  
5. A LEVEL LANDING AREA (MAX. SLOPE 2% IN ANY DIRECTION) SHALL BE PROVIDED AT THE TOP OF THE RAMP. THE LANDING CLEAR LENGTH SHALL BE 36" MIN AND THE CLEAR WIDTH SHALL BE AS WIDE AS THE RAMP.  
6. CURB RAMP, PAVEMENT MARKINGS & APPLICABLE SIGNAGE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST A.D.A. ACCESSIBILITY GUIDELINES.

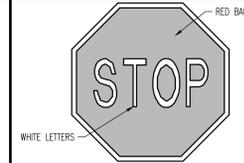
**A.D.A. PERPENDICULAR CURB RAMP DETAIL (W/OUT FLARE SIDES)**  
NOT TO SCALE



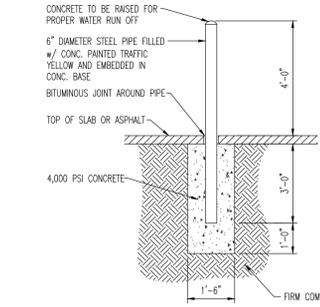
**PAINTED CROSSWALK STRIPING DETAIL**  
NOT TO SCALE



**R5-1 SIGN DETAIL**  
NOT TO SCALE

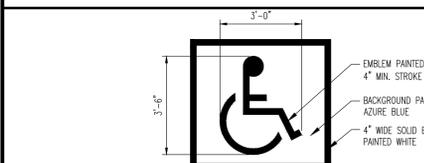


**R1-1 SIGN DETAIL**  
NOT TO SCALE



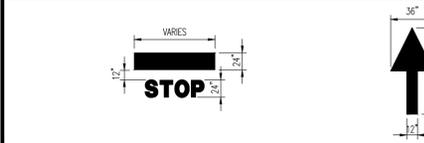
NOTES:  
1. BOLLARD MUST RESIST A FORCE OF 12,000 POUNDS APPLIED 36" ABOVE THE DRIVING SURFACE.  
2. BOLLARDS REQUIRED AS DEPICTED ON SITE PLAN DRAWINGS, TYPICALLY LOCATED AT BUILDING CORNERS, TRANSFORMERS, FIRE HYDRANTS, EXTERIOR WATER METER, GAS METER, FIRE DEPARTMENT CONNECTIONS, AND TRASH ENCLOSURES.

**6" BOLLARD DETAIL**  
NOT TO SCALE



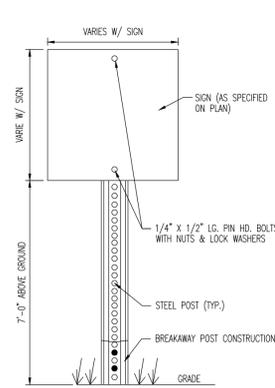
NOTE: ALL PAVEMENT STRIPING, MARKINGS & APPLICABLE SIGNAGE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST A.D.A. ACCESSIBILITY GUIDELINES.

**PAINTED A.D.A. PARKING SYMBOL DETAIL**  
NOT TO SCALE



NOTE: ARROWS AND WORDS CAN BE ARRANGED IN OTHER COMBINATIONS THAN THOSE ILLUSTRATED HERE TO ACHIEVE DESIRED RESULT. ALL PAINT TO BE THERMOPLASTIC.

**PAINTED MARKING DETAILS**  
NOT TO SCALE



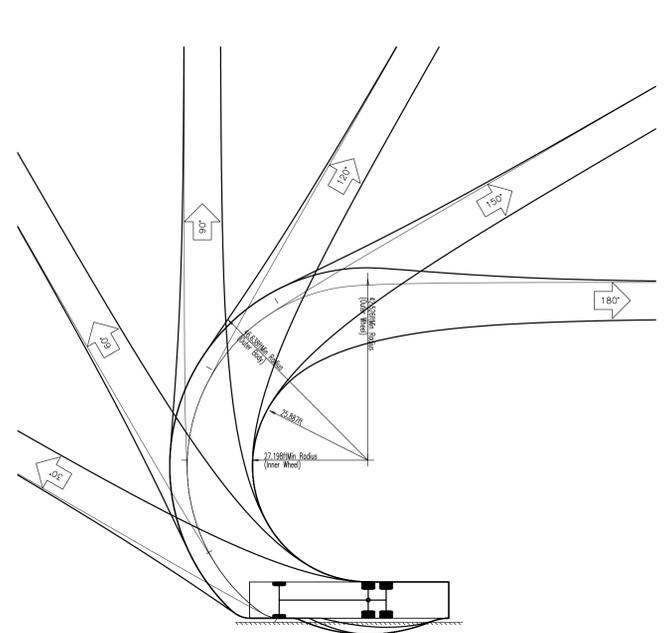
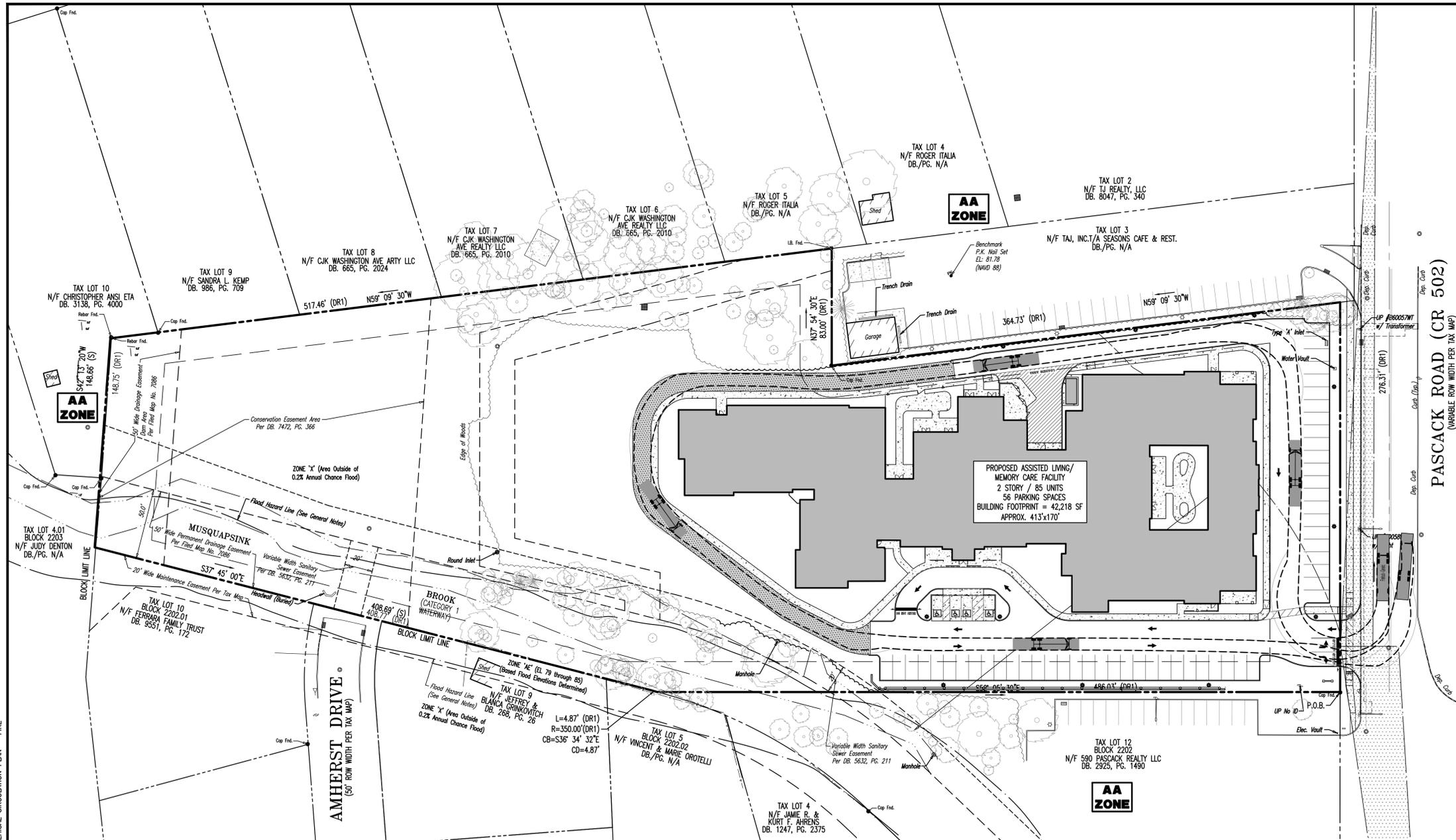
**SIGN POST DETAIL**  
NOT TO SCALE

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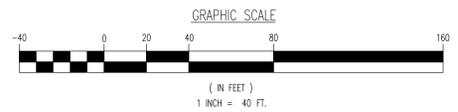
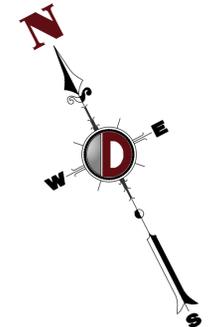
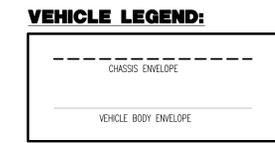
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<p><b>CONSTRUCTION DETAILS</b></p>	
<p>PROJECT: <b>CSH PASCACK, LLC</b> <b>PROPOSED ASSISTED LIVING</b> BLOCK 2202, LOT 1 620 PASCACK ROAD (CR 502) TOWNSHIP OF WASHINGTON, BERGEN COUNTY, NEW JERSEY</p>	<p>JOB No: 1423-99-003 DATE: 01/10/2020 DRAWN BY: AOV DESIGNED BY: MLR CHECKED BY: DTS</p>
<p>JOSEPH G. JAWORSKI PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 36618</p>	<p>DANIEL T. SEHNAL PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 53572</p>
<p>811 PROTECT YOURSELF ALL UTILITIES REQUIRE NOTIFICATION OF LOCATING, MARKING, OR EXCAVATION PRIOR TO ANY WORK. PREPARE TO OBTAIN THE STATE'S SERVICE LISTING AT 811 OR 888-880-8844.</p>	

Plotted: 09/14/20 9:41 AM, By: russell, Product Ver: 23.1a (LMS Tech) File: P:\VEPC PROJECTS\1423 Capitol Seniors Housing\DWG Site Plans\142399030306.dwg, ---> 17 CONSTRUCTION DETAILS



Firetruck - Generic	47.00ft
Overall Length	8.50ft
Overall Width	10.51ft
Overall Body Height	0.95ft
Min Body Ground Clearance	8.50ft
Track Width	6.00s
Lock-to-lock time	40.00°
Max Wheel Angle	



Plotted: 09/03/20 - 1:59 PM, By: jordan, Product Ver: 23.1a (LMS Tech)  
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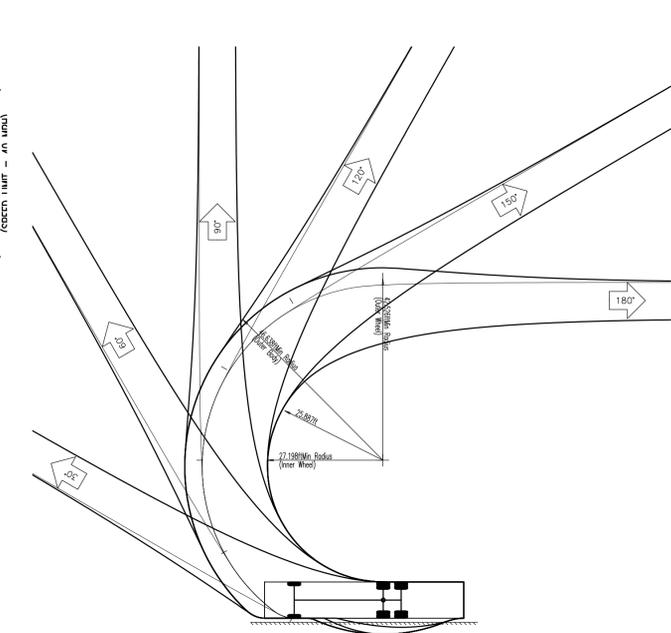
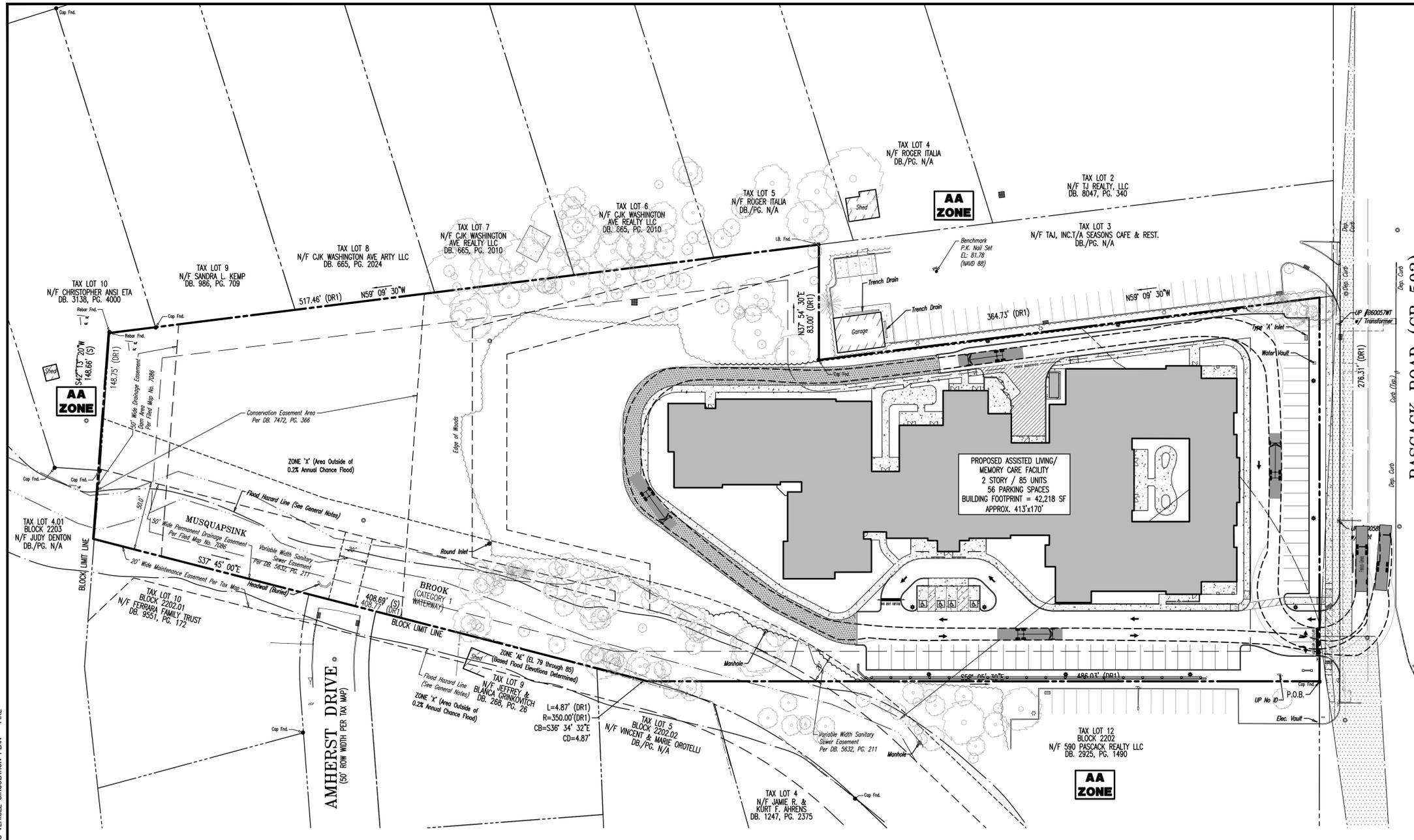
1423-99-003  
DATE: 01/10/2020  
SCALE: (H) 1"=40'  
(V)  
SHEET No: 18 OF 21

**TITLE: VEHICAL CIRCULATION PLAN - FIRE**

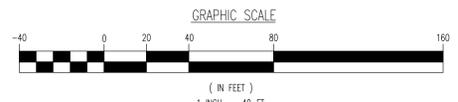
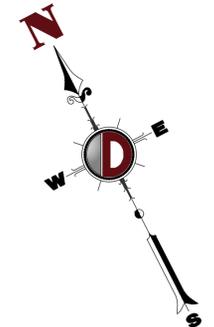
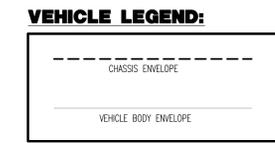
**PROJECT: CSH PASCACK, LLC PROPOSED ASSISTED LIVING**  
BLOCK 2202, LOT 1  
620 PASCACK ROAD (CR 502)  
TOWNSHIP OT WASHINGTON, BERGEN COUNTY, NEW JERSEY

JOSEPH G. JAWORSKI PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 36618	DANIEL T. SEHNAL PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 53572
---	---

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Firetruck - Generic	47.00ft
Overall Length	8.500ft
Overall Width	10.519ft
Overall Body Height	0.950ft
Min Body Ground Clearance	8.500ft
Track Width	6.00ft
Lock-to-lock time	6.00ft
Max Wheel Angle	40.00°



Plotted: 09/14/20 - 9:41 AM, By: russell, Product Ver: 23.1a (LMS Tech)  
 File: P:\BECPC PROJECTS\1423 Capitol Seniors Housing\99-003 Washington\DWG\Site Plans\1423990035V6.dwg, ---> 18 VEHICLE CIRCULATION PLAN - FIRE

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 Allen, Texas 1: 972.334.2100 | Austin, Texas 1: 512.444.2444 | Houston, Texas 1: 281.789.4400  
 Newtown, Pennsylvania 1: 202.465.0274 | Dallas, Texas 1: 972.921.8570

TITLE: **VEHICLE CIRCULATION PLAN - FIRE**

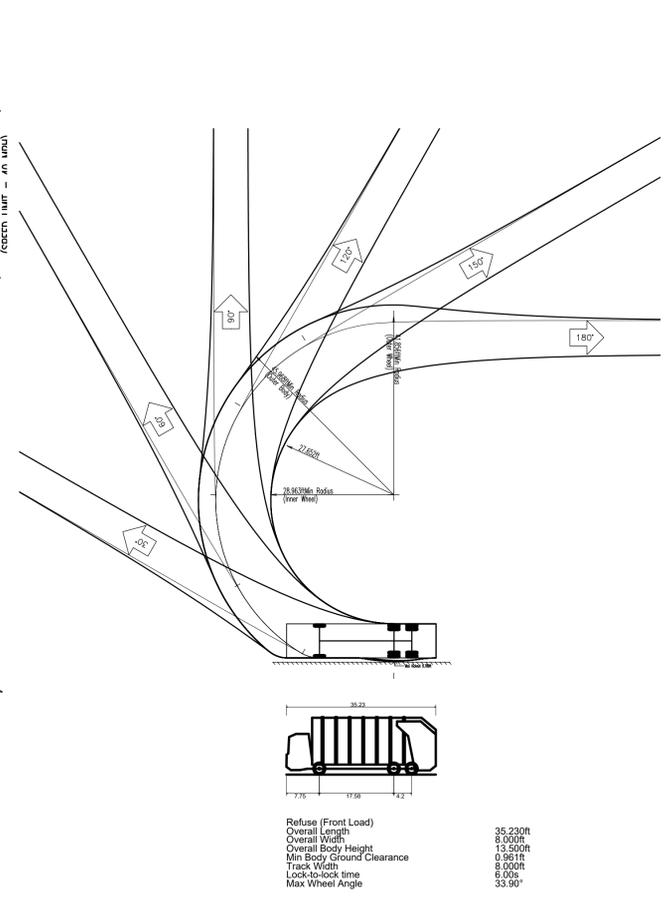
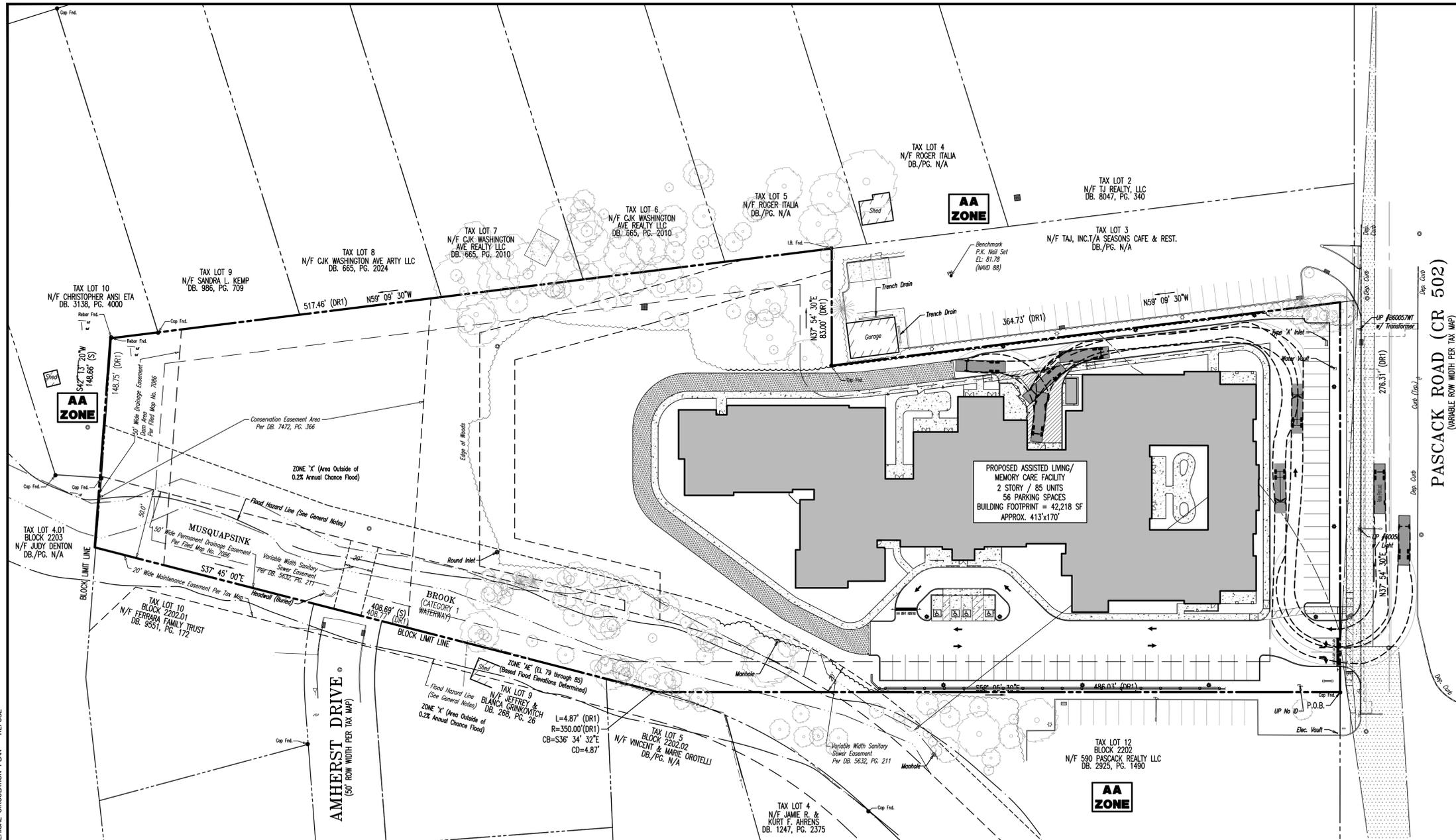
PROJECT: **CSH PASCACK, LLC PROPOSED ASSISTED LIVING**  
 BLOCK 2202, LOT 1  
 620 PASCACK ROAD (CR 502)  
 TOWNSHIP OF WASHINGTON, BERGEN COUNTY, NEW JERSEY

JOB No: 1423-99-003 DATE: 01/10/2020  
 DRAWN BY: JTG SCALE: (H) 1"=40' (V)  
 DESIGNED BY: MLR SHEET No:  
 CHECKED BY: DTS  
 CHECKED BY: -

**JOSEPH G. JAWORSKI** **DANIEL T. SEHNAL**  
 PROFESSIONAL ENGINEER PROFESSIONAL ENGINEER  
 NEW JERSEY LICENSE No. 36618 NEW JERSEY LICENSE No. 53572

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Plotted: 09/03/20 2:00 PM, By: jordan, Product Ver: 23.1a (LMS Tech)  
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 Allen, Texas 1: 972.334.2100 | Austin, Texas 1: 512.444.2646 | Houston, Texas 1: 281.789.6400  
 Newswales, Pennsylvania 1: 207.665.0276 | Dallas, Texas 1: 941.921.8570

TITLE: **VEHICAL CIRCULATION PLAN - REFUSE**

PROJECT: **CSH PASCACK, LLC PROPOSED ASSISTED LIVING**

BLOCK 2202, LOT 1  
 620 PASCACK ROAD (CR 502)  
 TOWNSHIP OF WASHINGTON, BERGEN COUNTY, NEW JERSEY

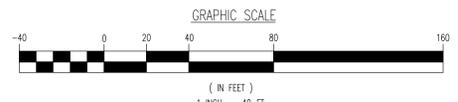
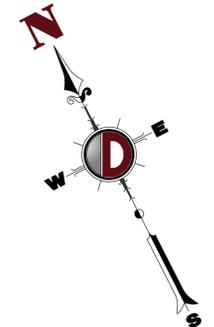
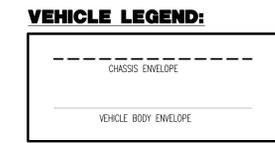
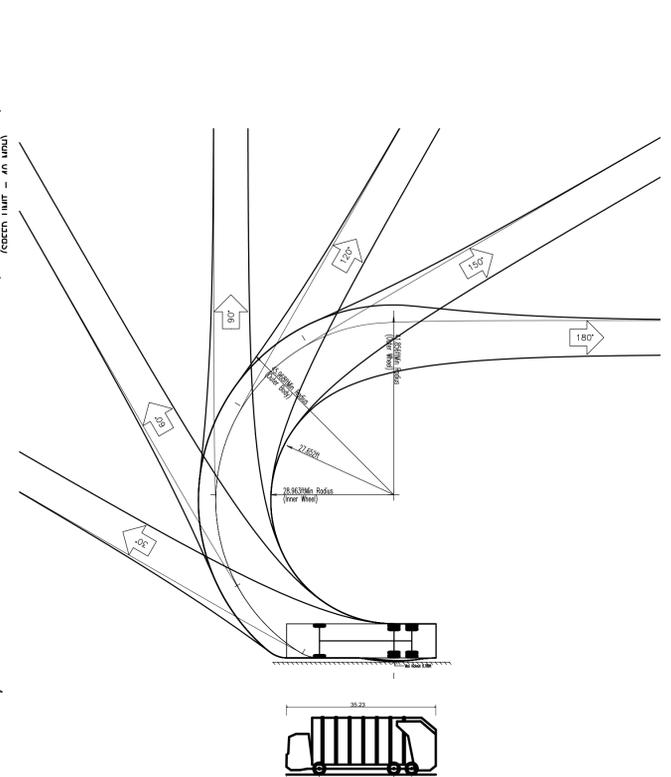
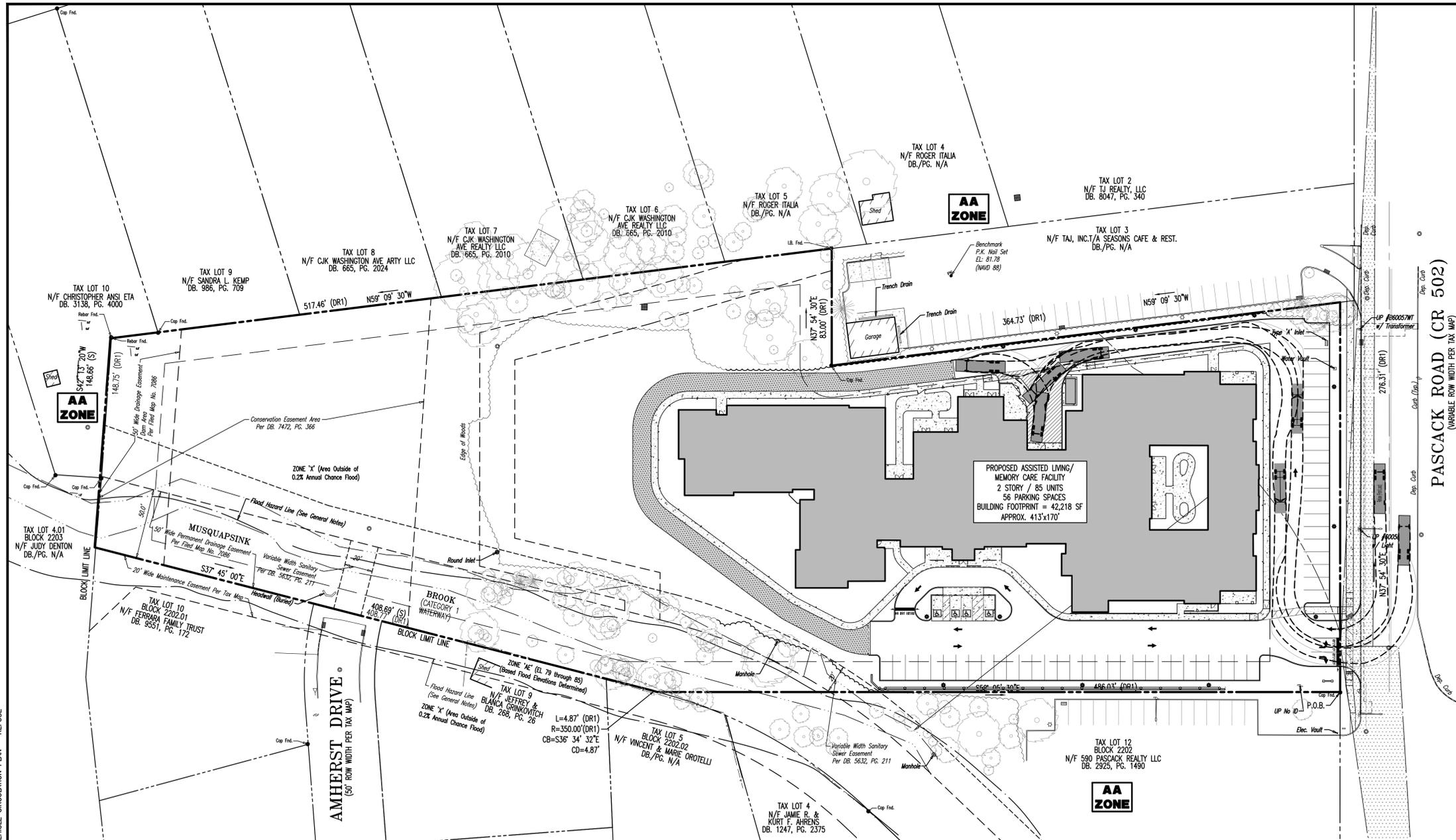
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 DRAWN BY: JTG SCALE: (H) 1"=40' (V)  
 DESIGNED BY: MLR SHEET No:  
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 CHECKED BY: -

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 NEW JERSEY LICENSE No. 36618

**DANIEL T. SEHNAL** PROFESSIONAL ENGINEER  
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1423-99-003  
01/10/2020

SCALE: (H) 1"=40'  
(V)

SHEET No: **19**  
OF 21

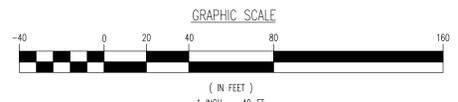
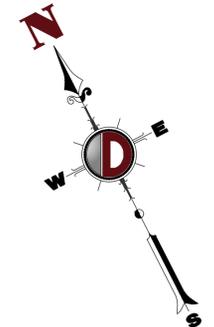
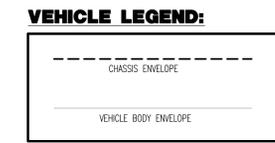
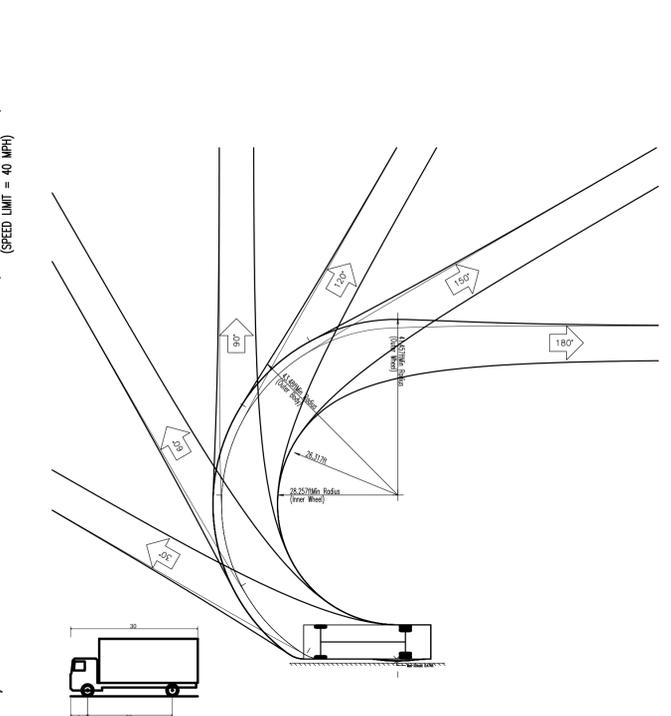
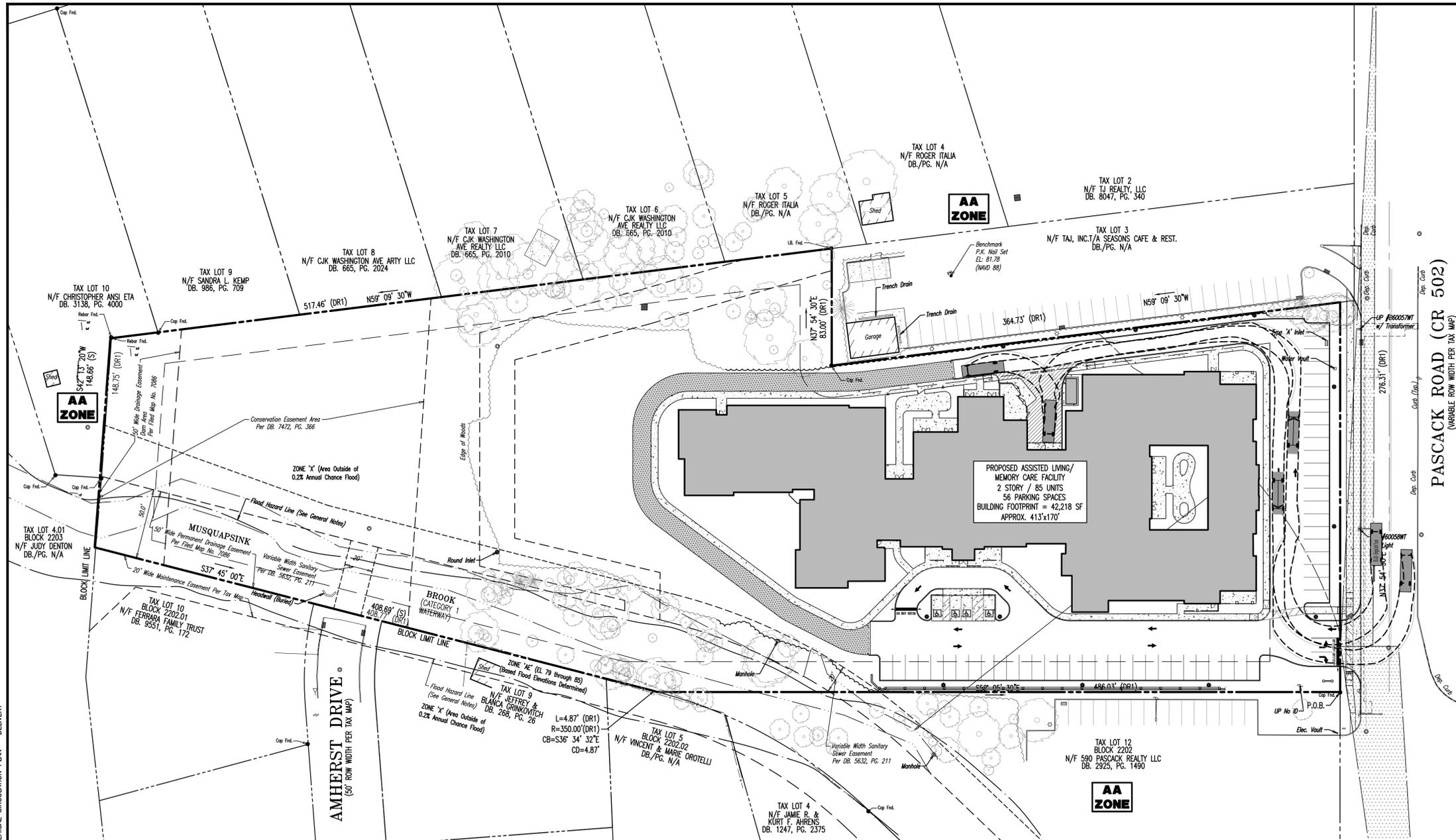
**TITLE: VEHICLE CIRCULATION PLAN - REFUSE**

PROJECT: **CSH PASCACK, LLC PROPOSED ASSISTED LIVING**  
BLOCK 2202, LOT 1  
620 PASCACK ROAD (CR 502)  
TOWNSHIP OF WASHINGTON, BERGEN COUNTY, NEW JERSEY

JOSEPH G. JAWORSKI DANIEL T. SEHNAL  
PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 36618  
PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 53572

Rev.	Date	Comments
1	01/20/20	REVISED PER COMPLETENESS COMMENTS
2	05/04/20	REVISED PER SURVEY UPDATE
3	07/09/20	REVISED PER TOWNSHIP COMMENTS
4	07/09/20	REVISED PER NEW BUILDING FOOTPRINT
5	08/17/20	REVISED PER COUNTY COMMENTS
6	09/14/20	REVISED PER COUNTY COMMENTS

Plotted: 09/14/20 - 9:41 AM, By: russell, Product Ver: 23.1a (LMS Tech)  
 File: P:\BECPC PROJECTS\1423 Capitol Seniors Housing\99-003 Washington\DWG\Site Plans\142399003SV6.dwg, ---> 19 VEHICLE CIRCULATION PLAN - REFUSE



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TITLE: **VEHICAL CIRCULATION PLAN - DELIVERY**

PROJECT: **CSH PASCACK, LLC PROPOSED ASSISTED LIVING**  
 BLOCK 2202, LOT 1  
 620 PASCACK ROAD (CR 502)  
 TOWNSHIP OF WASHINGTON, BERGEN COUNTY, NEW JERSEY

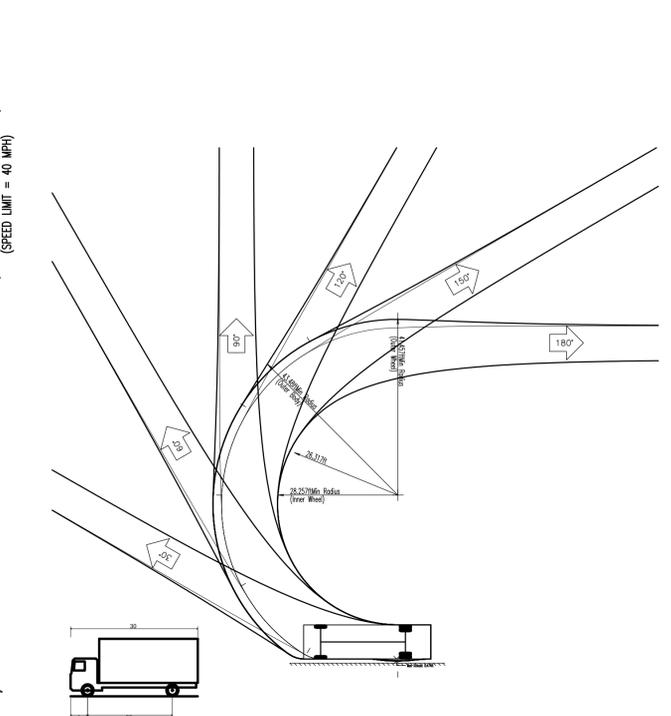
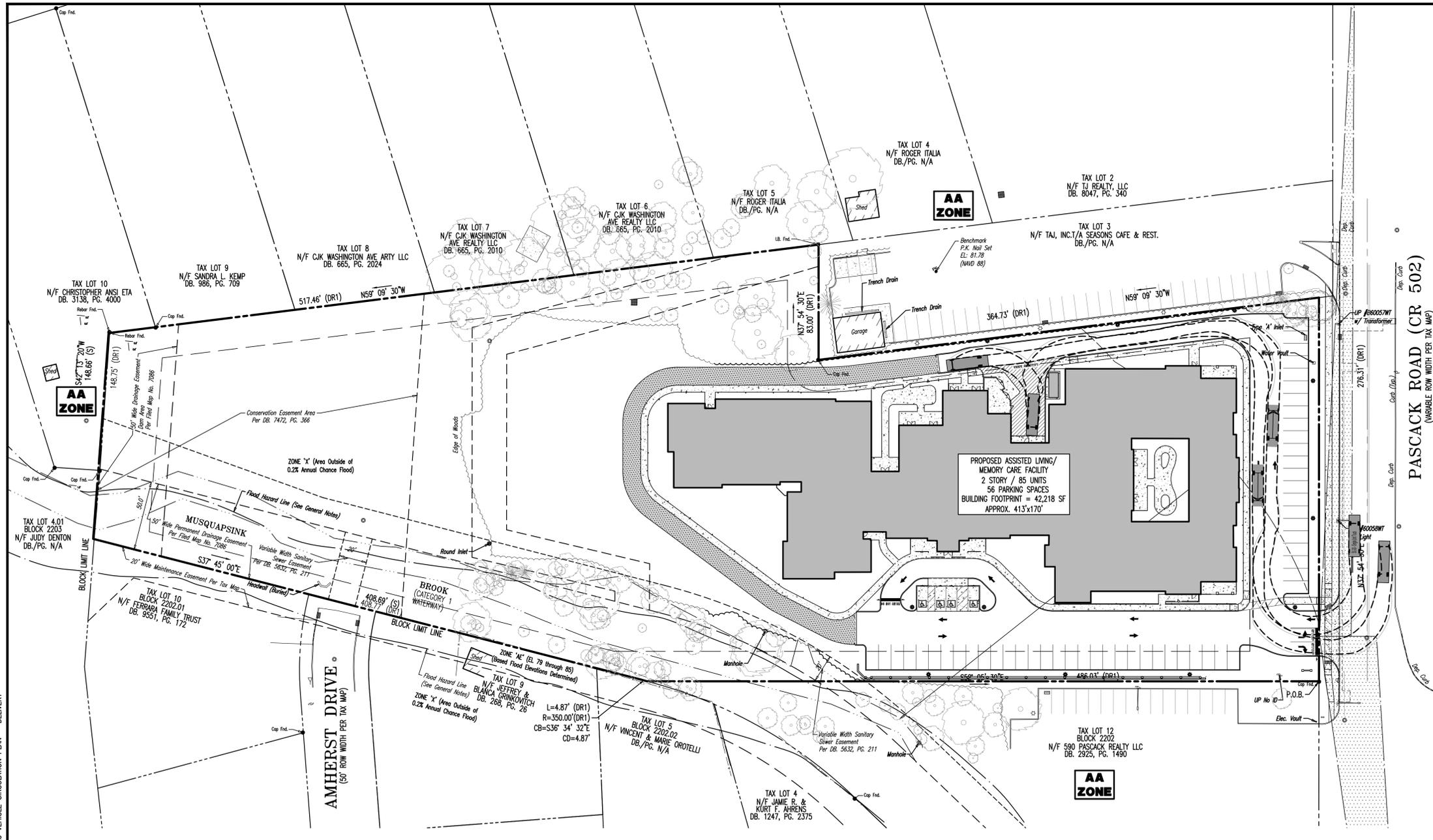
JOB No: 1423-99-003 DATE: 01/10/2020  
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 CHECKED BY: DTS  
 CHECKED BY: -

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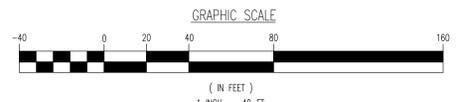
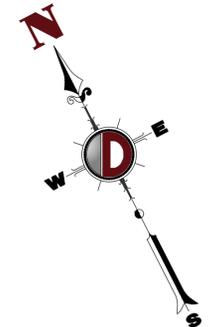
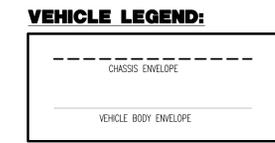
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Plotted: 09/03/20 - 2:00 PM, By: jgardes, Product Ver: 23.1a (LMS Tech)  
 File: P:\BECPC PROJECTS\1423 Capitol Seniors Housing\99-003 Washington\DWG\Site Plans\142399003SV6.dwg, --> 20 VEHICAL CIRCULATION PLAN - DELIVERY



SU-30 - Single Unit Truck	30.000ft
Overall Length	8.000ft
Overall Width	13.500ft
Overall Body Height	1.367ft
Min Body Ground Clearance	6.000ft
Track Width	5.00ft
Lock-to-lock time	5.00s
Max Steering Angle (Virtual)	31.80°



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 Newtowel, Pennsylvania T: 207.655.0276 | Oakley Beach, Florida T: 361.921.8570

TITLE: **VEHICLE CIRCULATION PLAN - DELIVERY**

PROJECT: **CSH PASCACK, LLC  
 PROPOSED ASSISTED LIVING**  
 BLOCK 2202, LOT 1  
 620 PASCACK ROAD (CR 502)  
 TOWNSHIP OF WASHINGTON, BERGEN COUNTY, NEW JERSEY

JOB No: 1423-99-003 DATE: 01/10/2020  
 DRAWN BY: JTG SCALE: (H) 1"=40'  
 DESIGNED BY: MLR (V)  
 CHECKED BY: DTS SHEET No:  
 CHECKED BY: -

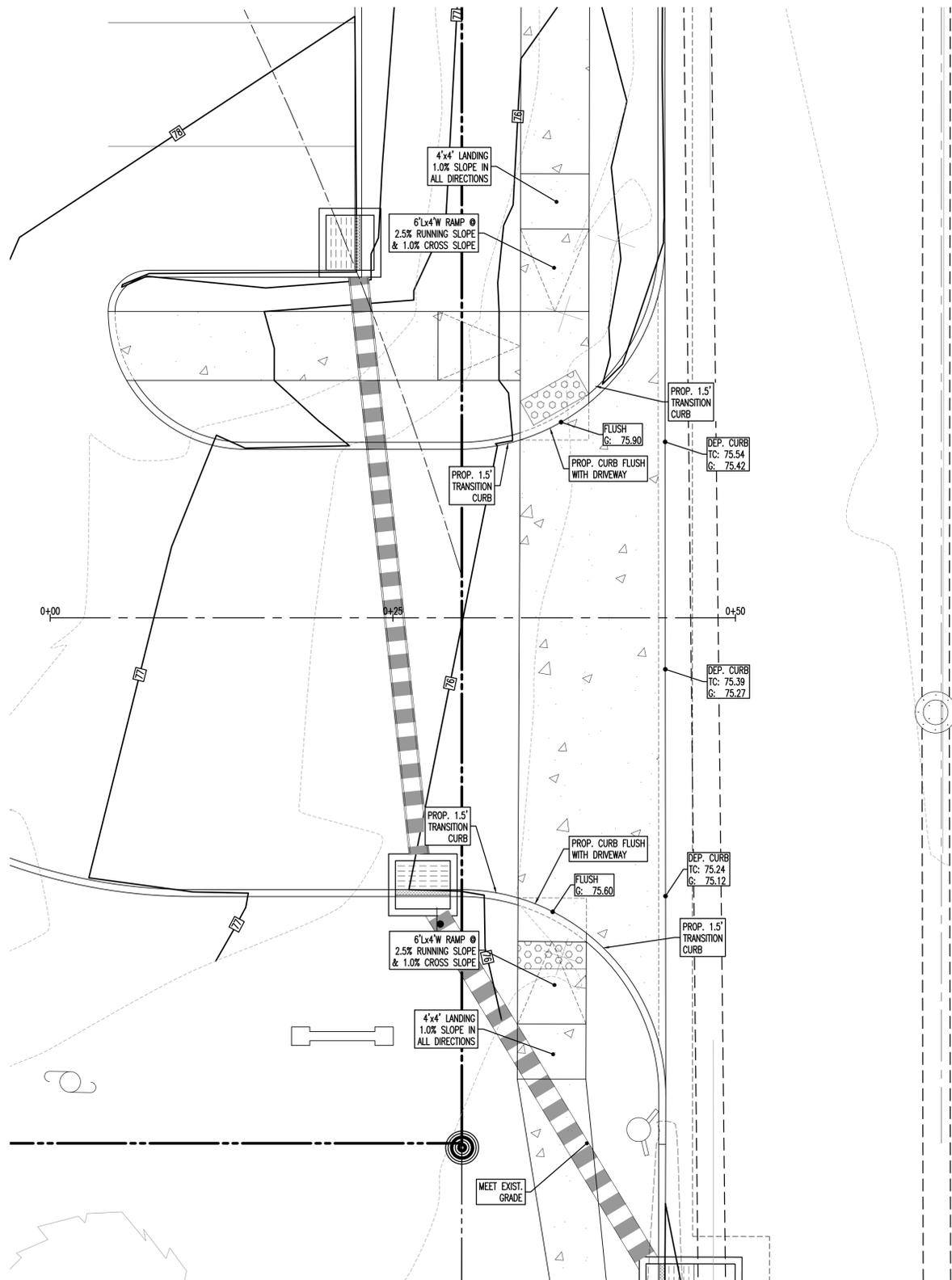
**JOSEPH G. JAWORSKI** **DANIEL T. SEHNAL**  
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 NEW JERSEY LICENSE No. 36618 NEW JERSEY LICENSE No. 53572

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Rev. # 6

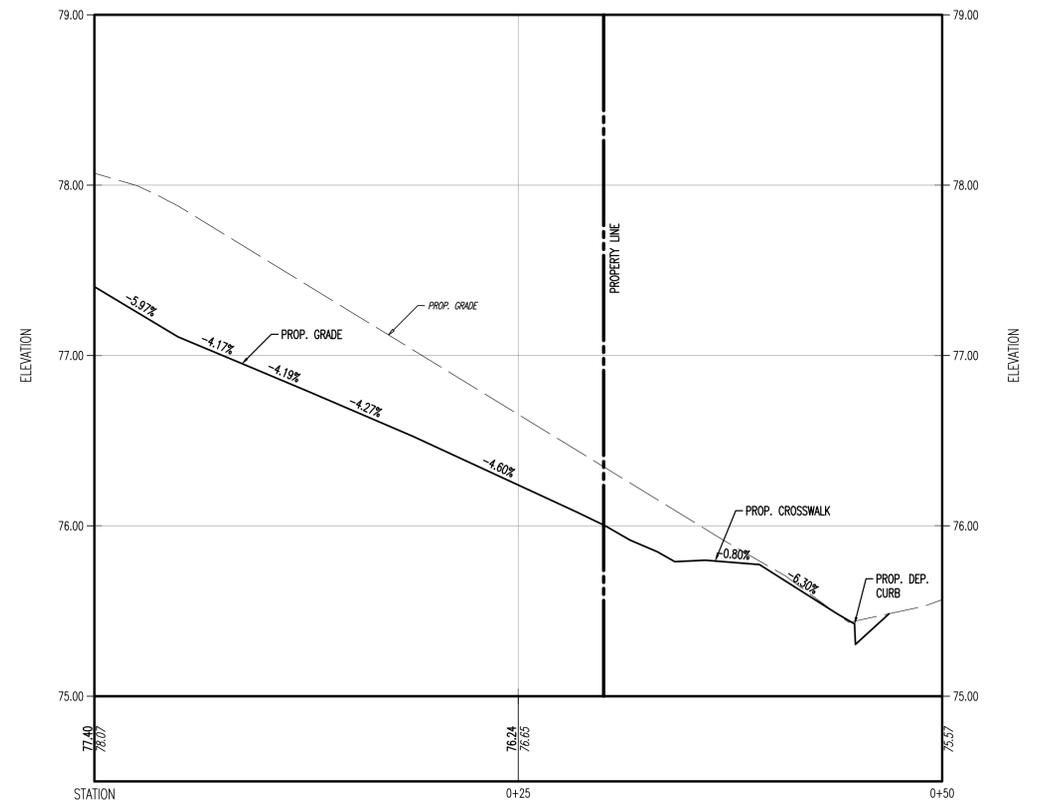
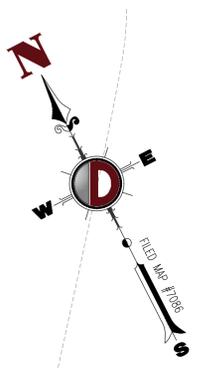
Plotted: 09/14/20 9:41 AM, By: russell, Product Ver: 23.1a (LMS Tech)  
 File: P:\BECPC PROJECTS\1423 Capitol Seniors Housing\99-003 Washington\DWG\Site Plans\142399003SV6.dwg, --> 20 VEHICLE CIRCULATION PLAN - DELIVERY

Plotted: 09/14/20 9:41 AM, By: russell, Product Ver: 23.1a (LMS Tech)  
 File: P:\BECPC PROJECTS\1423 Capitol Seniors Housing\DWG Site Plans\142399035ADWG.dwg, ---> 21 ADA RAMP & DRIVEWAY PROFILE EXHIBIT



**ADA RAMPS AT PASCACK ROAD DRIVEWAY (SOUTH)**

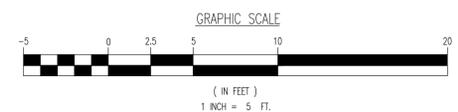
SCALE: 1" = 5'



PROFILE VIEW OF PROP. DRIVEWAY ENTRANCE  
 HORIZONTAL SCALE: 1"=5'  
 VERTICAL SCALE: 1"=0.5'

**ADA NOTES**

- ALL SLOPES INDICATED ARE ACTUAL. CONTRACTOR TO REFER TO LATEST ADA GUIDELINES AND NJ BARRIER FREE SUBCODE (NAC 523-7) FOR SLOPE LIMITS. AT THE TIME OF PLAN DESIGN, THE SLOPE LIMITS ARE AS FOLLOWS:
- SIDEWALKS/ ACCESSIBLE ROUTES**
    - RUNNING SLOPE: 1:20 (5%) MAX. (4.5% MAX. FOR NEW CONSTRUCTION)
    - CROSS SLOPE: 1:48 (2.08%) MAX., 1.0% MIN. (1.5% MAX. FOR NEW CONSTRUCTION)
    - INTERSECTION SLOPE: 1:48 (2.08%) MAX. IN ALL DIRECTIONS (1.5% MAX. FOR NEW CONSTRUCTION)
    - CHANGE IN LEVELS: 3/4" MAX. HEIGHT OR 1/2" MAX. HEIGHT WITH BEVELED EDGE SLOPE OF 1:2 (50%) MAX.
    - CAPS: 3/4" MAX. WIDTH ELONGATED OPENINGS SHALL BE PLACED SO LONG DIMENSION IS PERPENDICULAR TO PATH OF TRAVEL
  - CURB RAMP**
    - SLOPE: 1:12 (8.33%) MAX. (7.4% MAX. FOR NEW CONSTRUCTION)
    - SIDE FLARE SLOPE: 1:10 (10%) MAX. (WHERE FEELS CROSS RAMP)
    - BOTTOM LANDINGS: 48" MIN. LENGTH; WIDTH TO MATCH CURB RAMP: 1:48 MAX. (2.08%) IN ALL DIRECTIONS (1.5% MAX. FOR NEW CONSTRUCTION)
    - TOP LANDINGS: 36" MIN. LENGTH; WIDTH TO MATCH CURB RAMP: 1:48 MAX. (2.08%) CROSS SLOPE (1.5% MAX. FOR NEW CONSTRUCTION) AND 1:20 (5%) RUNNING SLOPE (4.5% MAX. FOR NEW CONSTRUCTION)
  - ACCESSIBILITY PARKING STALLS**
    - SPACE AND ACCESS AISLE SLOPE: 1:48 MAX. (2.08%) IN ALL DIRECTIONS (1.5% MAX. FOR NEW CONSTRUCTION)
  - CROSSWALKS**
    - RUNNING SLOPE: 1:20 (5%) MAX. (4.5% MAX. FOR NEW CONSTRUCTION)
    - CROSS SLOPE: 1:48 (2.08%) MAX. (1.5% MAX. FOR NEW CONSTRUCTION)
    - CHANGE IN LEVELS: 3/4" MAX. HEIGHT OR 1/2" MAX. HEIGHT WITH BEVELED EDGE, BEVELED EDGE SLOPE OF 1:2 (50%) MAX.
    - CAPS: 1/2" MAX. WIDTH ELONGATED OPENINGS SHALL BE PLACED SO LONG DIMENSION IS PERPENDICULAR TO PATH OF TRAVEL
  - RAMPS**
    - SLOPE: 1:12 (8.33%) MAX. (7.4% MAX. FOR NEW CONSTRUCTION)
    - EXISTING RAMPS: SLOPE: 1:10 (10%) MAX. FOR RISE OF 6"; 1:8 (12.5%) MAX. FOR MAX. RISE OF 3"
    - MAX. RISE: 30"
    - MIN. CLEAR WIDTH: 36"
    - MIN. LANDING CLEAR LENGTH: 60"
    - MAX. CROSS SLOPE: 1:48 (2.08%) (1.5% MAX. FOR NEW CONSTRUCTION)



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

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 www.dyneng.com

TITLE: <b>ADA RAMP &amp; DRIVEWAY PROFILE EXHIBIT</b>		JOB No: 1423-99-003	DATE: 01/10/2020
PROJECT: <b>CSH PASCACK, LLC</b> PROPOSED ASSISTED LIVING		DRAWN BY: JTG	SCALE: (H) 1"=5' (V)
BLOCK: 2202, LOT 1 620 PASCACK ROAD (CR 502) TOWNSHIP OF WASHINGTON, BERGEN COUNTY, NEW JERSEY		DESIGNED BY: MLR	SHEET No:
CHECKED BY: DTS		<b>21</b> OF 21	
CHECKED BY: -			
<b>JOSEPH G. JAWORSKI</b> PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 36618		<b>DANIEL T. SEHNAL</b> PROFESSIONAL ENGINEER NEW JERSEY LICENSE No. 53572	