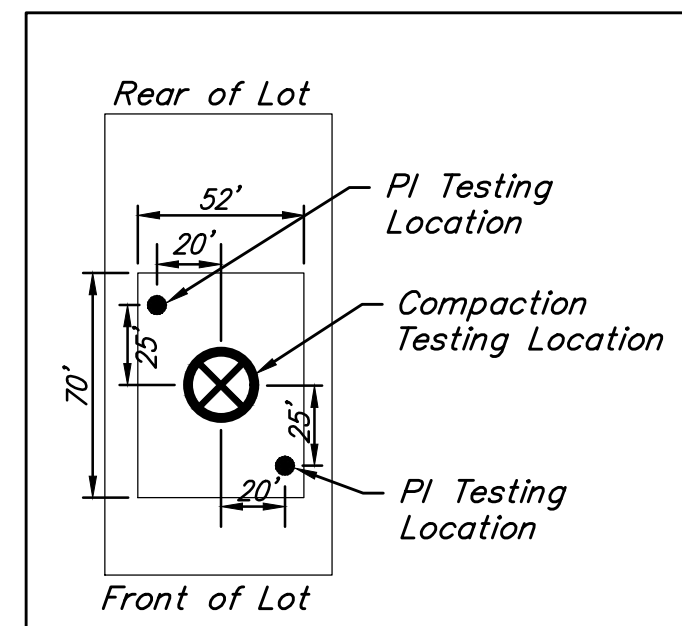


BENCHMARKS:

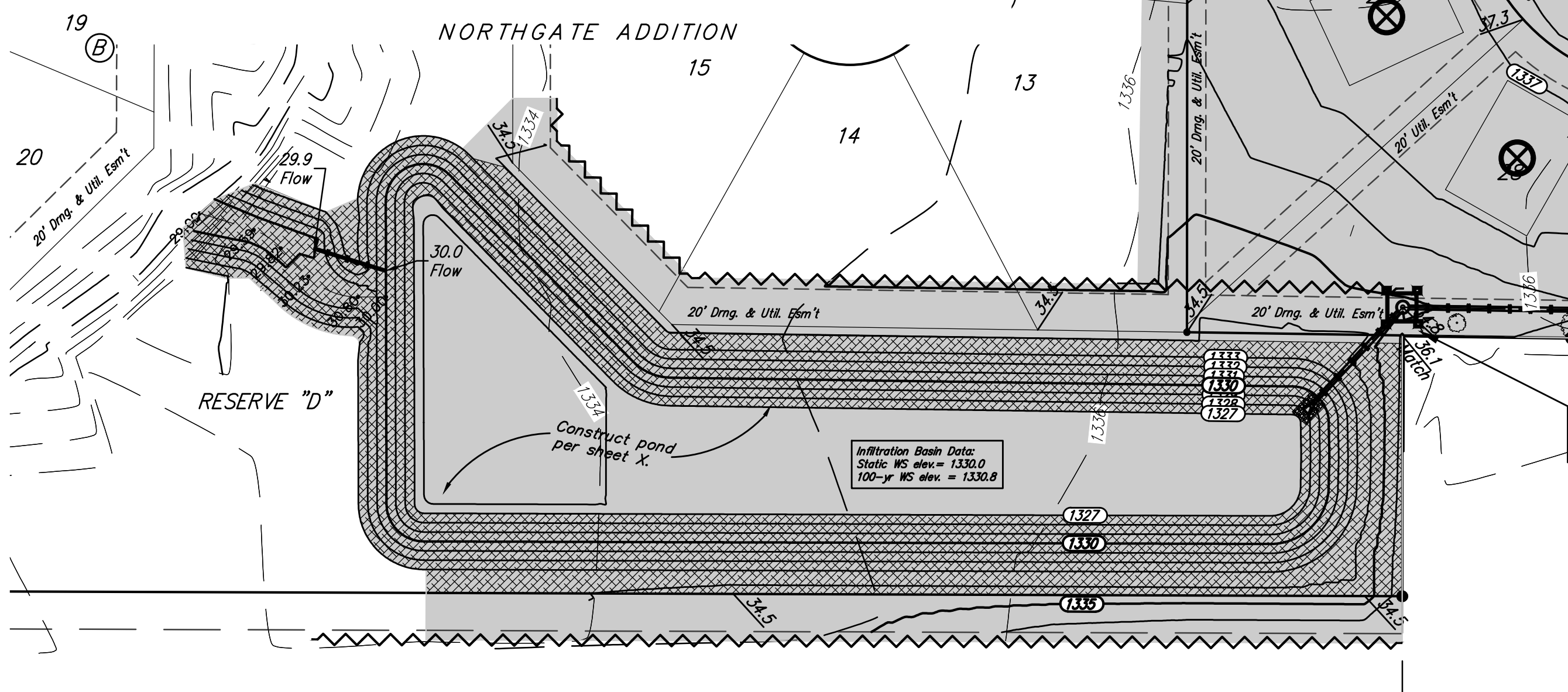
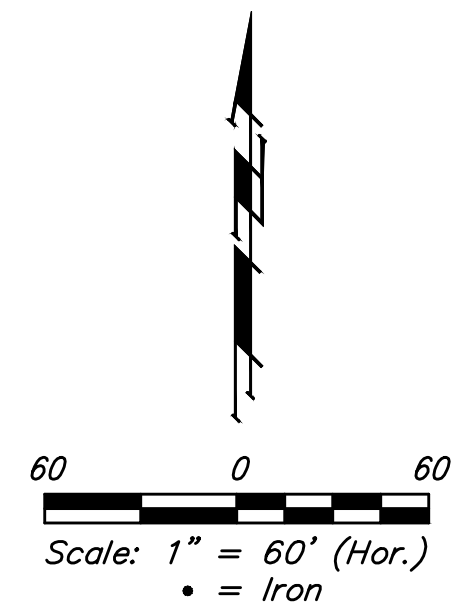
BM #1: Chiseled Square, Center of Storm Water Sewer Vault, West side of Meridian Ave, 145' South & 30.6' East of the Northeast Cor., Lot 1, Block A, Northgate 2nd Addition. Elev. = 1334.49 NAVD88

BM #2: "X" on South End of Catch Basin, East Side of Meridian Ave, 423' South of 55th St. N. & 30' East of Meridian Ave. centerline. Elev. = 1332.58 NAVD88



The Contractor shall be responsible to collect soil samples from two locations within each lot. The soil samples are to come from the diagonal corners of the building pads as shown on this sheet. The samples shall be collected at a depth of 18" below the pad elevation listed on this sheet. Each soil sample shall be approximately 8 oz. to 12 oz. in weight and sealed in a zip-lock plastic bag. The soil samples shall be used for Atterberg Limits testing (ASTM D4318, "Liquid Limit, Plastic Limit, and Plasticity Index of Soils") to determine the PI (Plasticity Index) of the sample. The contractor shall deliver the soil samples to a licensed soils testing laboratory for Atterberg Limits testing. The test results shall be delivered to the Project Engineer as the tests are completed. The contractor shall be responsible for all costs associated with collecting soil, refilling the test holes, labeling the soil samples, transporting the soil, costs of testing, and delivering the test results. All costs associated with the Atterberg Limits testing are to be included in the bid item, "Testing". There are 22 lots (1 building pad per lot) to be tested at two locations for a total of 44 tests.

Construct 70' deep by 52' wide building pads on each lot per location shown. See Compaction Testing table for building pad elevations.

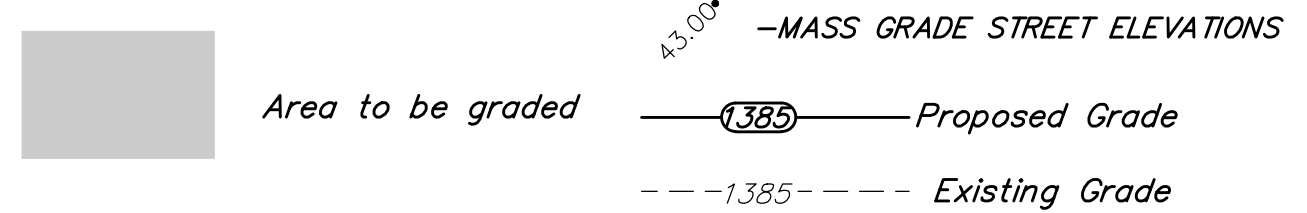


EARTH WORK TOTALS

	C.Y. Excavation	C.Y. Fill
Mass Grading Plan	1,629	17,647
Pond Construction	19,419	6
Total	21,048	17,653

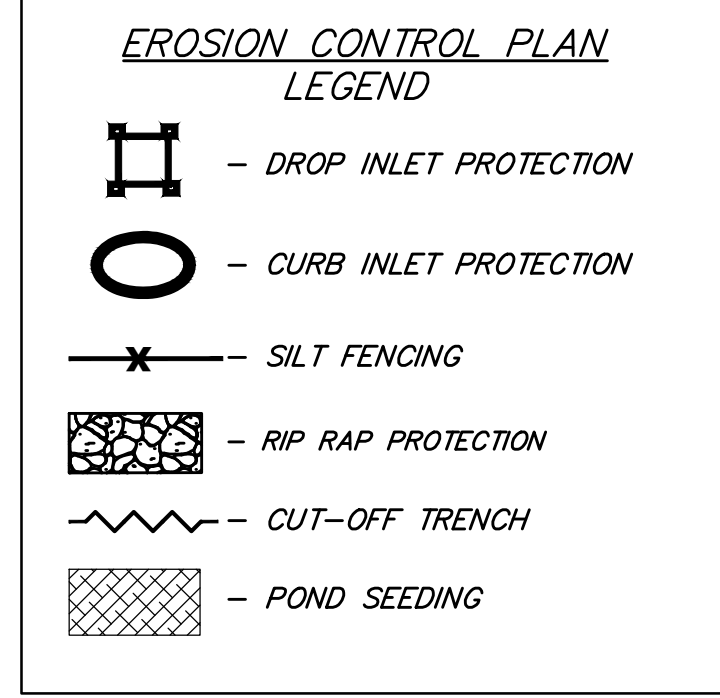
Earthwork quantities are for reference only. All cost associated with mass grading shall be incidental to lump sum bid item "Grading, Mass".

- Contractor to strip top 3" to 6" of top soil to remove vegetated material within lots and street R/W before mass grading and stockpile. Top soil stockpile to be redistributed over Reserve "D" on sideslopes and on lots between building pads and in building pad rear yards.
- Compaction of 95% shall be obtained in all lots and street R/W's.
- It shall be the Contractor's responsibility to protect the sanitary sewer and water distribution system during mass grading. Any damage done to these systems by Contractor or subcontractor shall be repaired at no additional cost to the project.
- Only trees within the street R/W or Res. "D" may be removed if necessary for grading. All other trees shall be protected from damage.
- All areas disturbed by construction shall be seeded as indicated on the cover sheet.



COMPACTION TESTING TABLE

Pad	Block	Location		Pad Elev.	Compaction % and Test Elevation					
		Northing	Easting		1333	1334	1335	1336	1337	1338
10	A	6721.821	4238.423	1337.2	X	X	X			X
11	A	6717.645	4318.370	1336.9	X	X	X		X	X
12	A	6716.460	4398.361	1336.8	X	X			X	X
13	A	6715.267	4478.353	1336.8	X	X			X	X
14	A	6714.090	4558.344	1336.8	X	X			X	X
15	A	6712.908	4638.334	1336.8	X				X	X
16	A	6711.721	4718.326	1337.3	X					X
17	A	6710.536	4798.318	1337.8	X					X
18	A	6721.189	4887.938	1337.5	X					X
19	A	6510.172	4884.812	1337.5						X
20	A	6527.530	4799.522	1337.5						X
21	A	6532.641	4719.589	1336.8					X	X
22	A	6533.826	4639.598	1336.8					X	X
23	A	6535.010	4559.607	1336.8	X				X	X
24	A	6536.195	4479.615	1336.8	X				X	X
25	A	6537.380	4399.624	1336.8	X	X			X	X
26	A	6538.565	4319.633	1336.9	X	X			X	X
27	A	6539.767	4238.475	1336.9	X	X			X	X
28	A	6562.143	4145.712	1337.2	X	X	X			X
29	A	6637.706	4075.952	1337.4	X	X	X			X
30	A	6732.128	4060.093	1337.6	X	X	X			X
31	A	6811.310	4060.155	1338.0	X	X	X			X



- COMPACTION TESTING LOCATION
 X - COMPACTION TESTING NOT REQUIRED AT THIS ELEVATION



Baughman Northgate 2nd Addition
MASS GRADING PLAN
 Erosion Control Plan
 Storm Water Drain #

PROJECT NUMBER: 468-85142
 DESIGN: AEG
 DRAWN: DJL
 APPROVED: [Signature]
 DATE: 11/16
 SCALE: Noted
 SHEET: **10 OF 20**