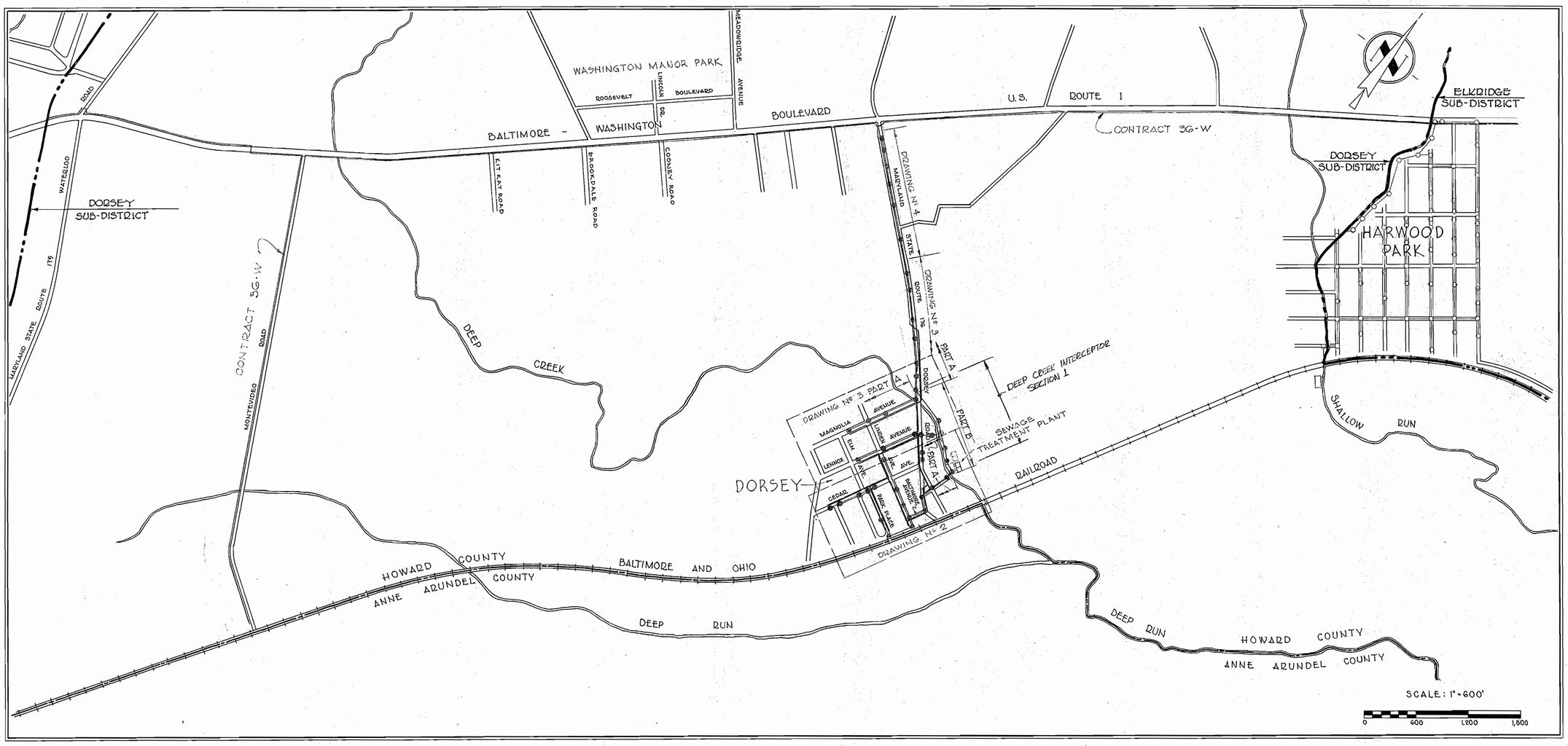


CONTRACT 24W & S

WATER AND SEWER MAIN EXTENSIONS

HOWARD COUNTY METROPOLITAN COMMISSION

DORSEY SUB-DISTRICT

Contract Nº 24 W & S

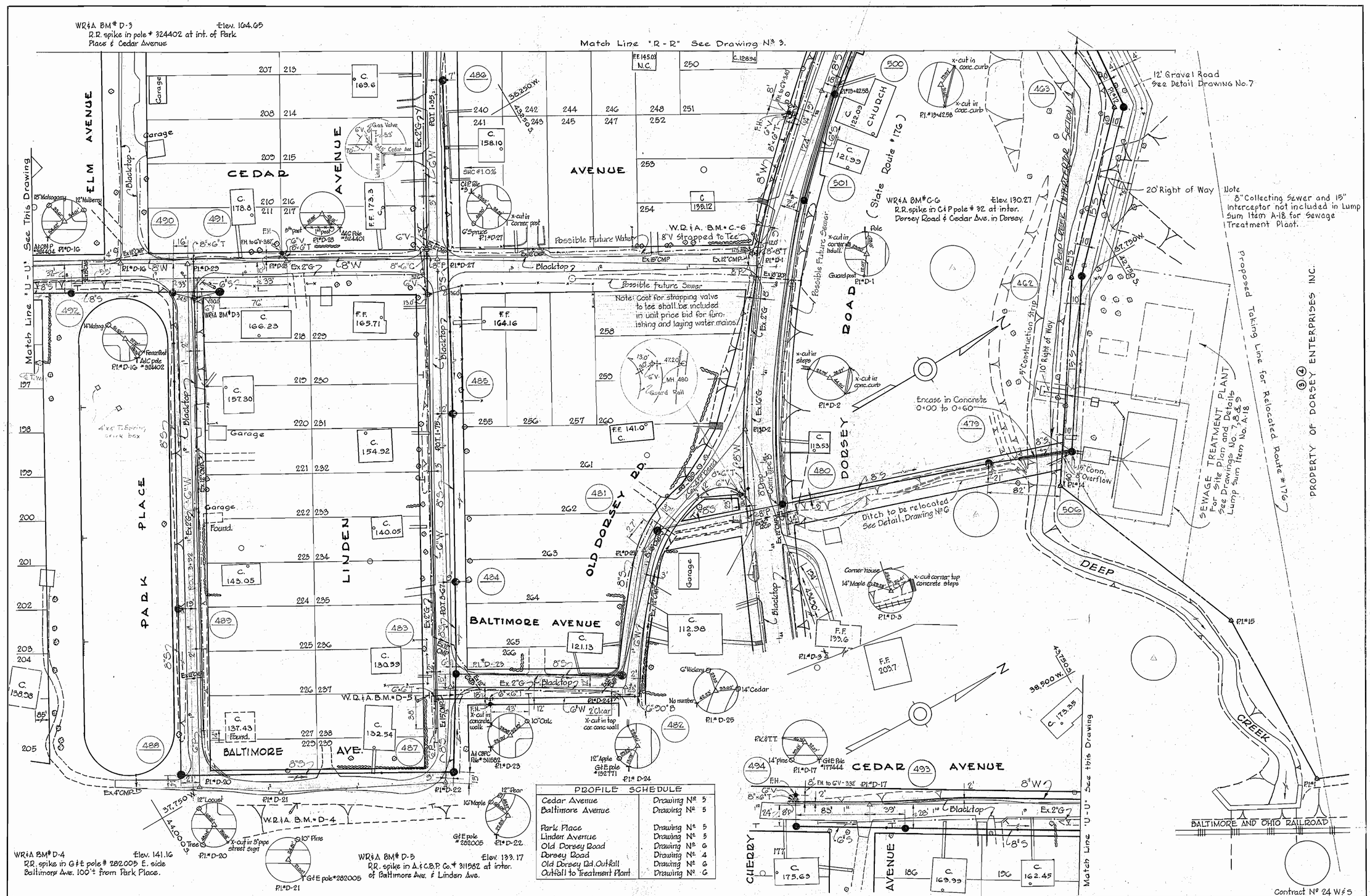
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION March 15, 1961 DATE — CHIEF ENGINEER	CONTRACT NO. 24 W&S	LOCATION MAP	DORSEY SUB-DISTRICT	DRAWING NO. 1 OF 9	SCALE AS SHOWN

W. O. 4918-2

AS BUILT 14 MAY, 63

1/S 24 W-S/1

ELLIOTT CO., PITTSBURGH REORDER A-39070



PROFILE SCHEDULE	
Cedar Avenue	Drawing No. 5
Baltimore Avenue	Drawing No. 5
Park Place	Drawing No. 5
Linden Avenue	Drawing No. 5
Old Dorsey Road	Drawing No. 6
Dorsey Road	Drawing No. 4
Old Dorsey Rd. Outfall	Drawing No. 6
Outfall to Treatment Plant	Drawing No. 6

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION March 24, 1961 DATE Carl W. Meyer CHIEF ENGINEER	CONTRACT NO. 24 W&S	PLAN OF WATER & SEWER MAINS	DORSEY SUB-DISTRICT	DRAWING NO. 2 OF 9	SCALE 1" = 50'

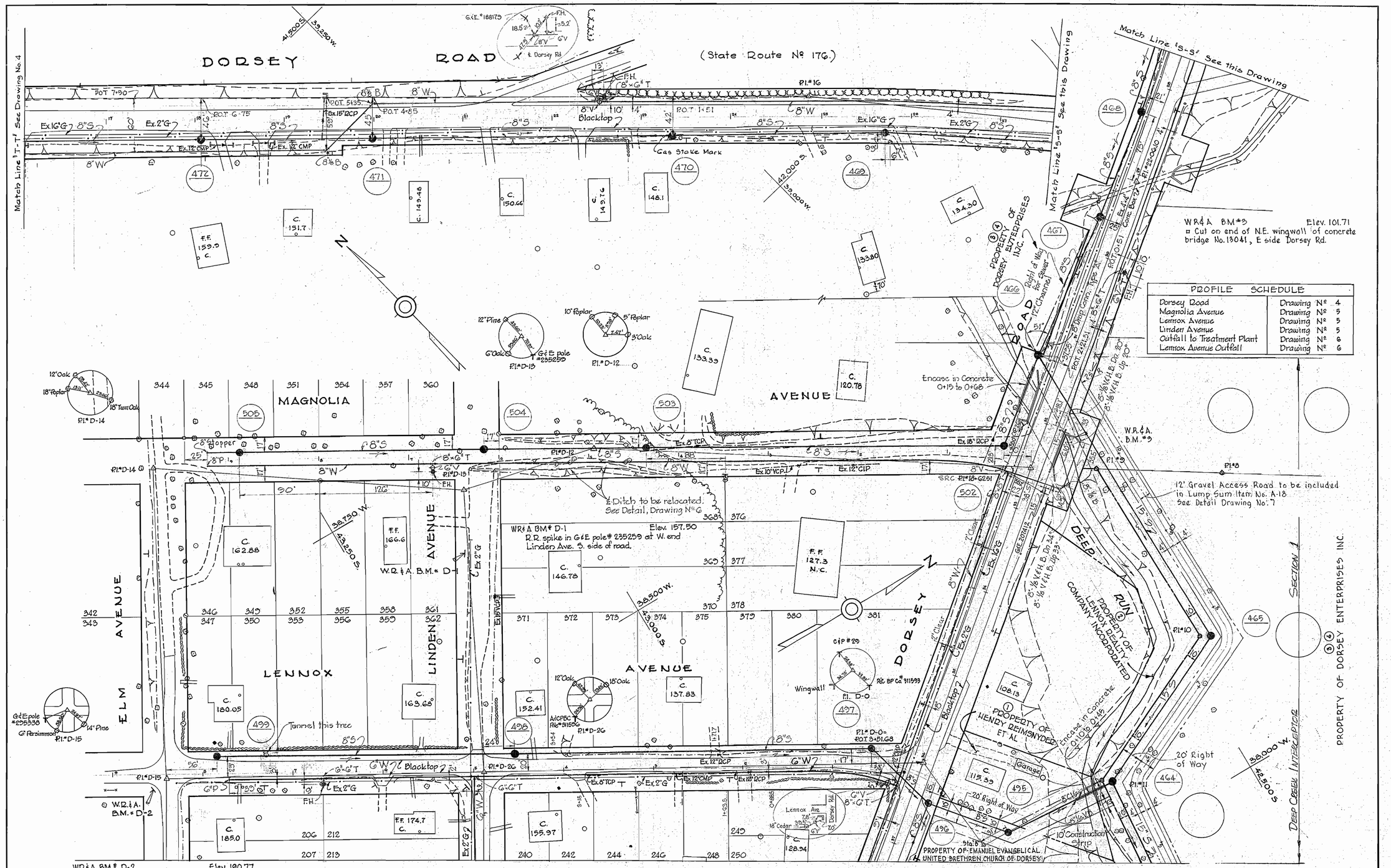
W.O. 4918-2

AS BUILT 14 MAY, 63

F.B. 2564, 2568

ELLIOTT CO., PITTSBURGH REORDER A-33070

WS 24 W-S/2



PROFILE SCHEDULE	
Dorsey Road	Drawing Nº 4
Magnolia Avenue	Drawing Nº 5
Lennox Avenue	Drawing Nº 5
Linden Avenue	Drawing Nº 5
Outfall to Treatment Plant	Drawing Nº 6
Lennox Avenue Outfall	Drawing Nº 6

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION March 24, 1961 (DATE) Carl W. Meyers (CHIEF ENGINEER)	CONTRACT NO. 24 W&S	PLAN OF WATER & SEWER MAINS	DORSEY SUB-DISTRICT	DRAWING NO. 3 OF 9	SCALE 1"=50'

W.O. 4918-2

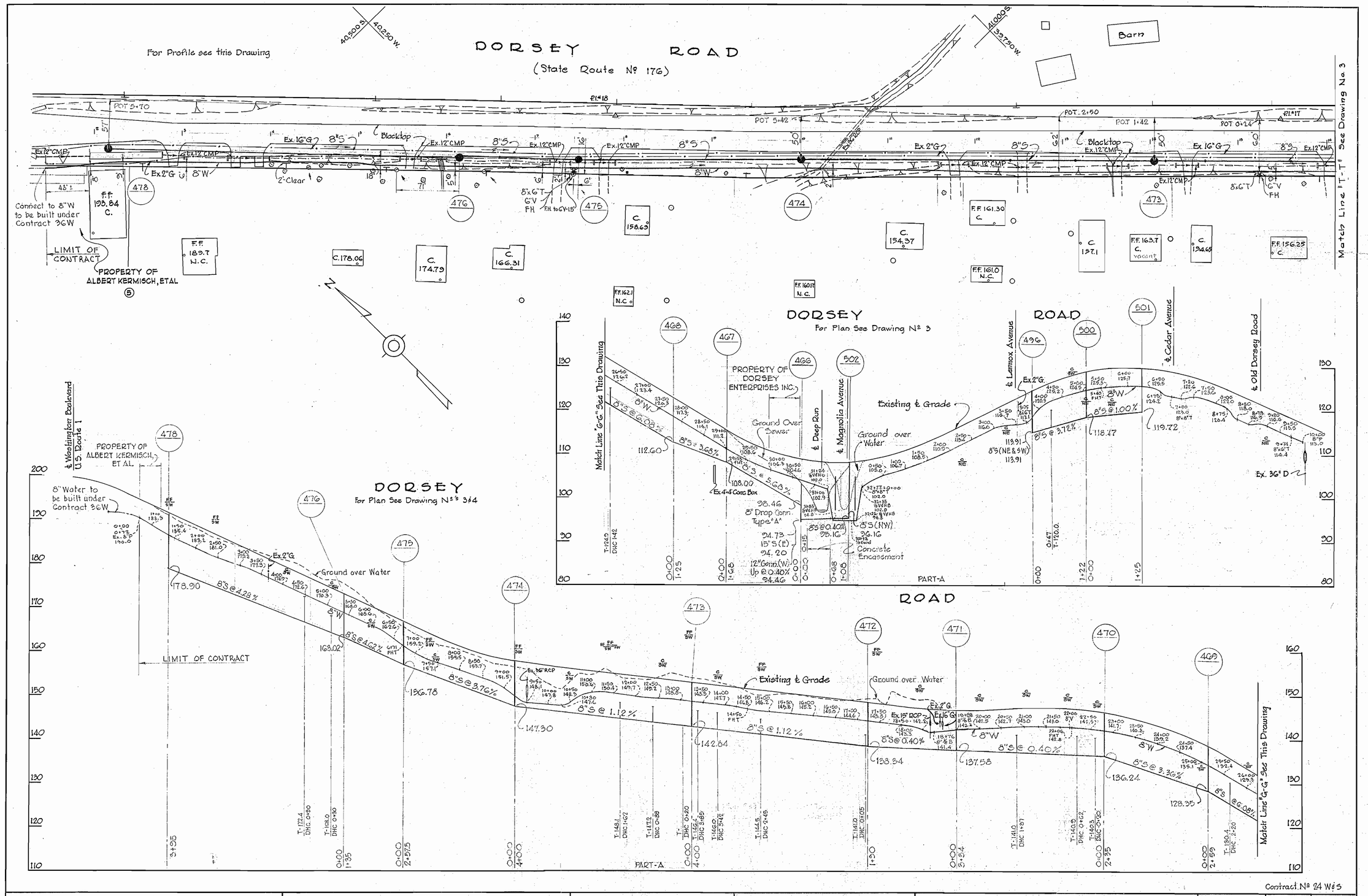
AS BUILT

REV. 5 NOV. 63
14 MAY 63

F.B. 2564, 2568

WS 24 W-S/3

ELLIOTT CO., PITTSBURGH REORDER A-39070



Contract Nº 24 W&S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION March, 24, 1961 DATE — Carl W. Meyer CHIEF ENGINEER	CONTRACT NO. 24 W&S	PLAN & PROFILES OF WATER & SEWER MAINS	DORSEY SUB-DISTRICT	DRAWING NO. 4 OF 9	SCALE AS SHOWN

W. O. 4918-2

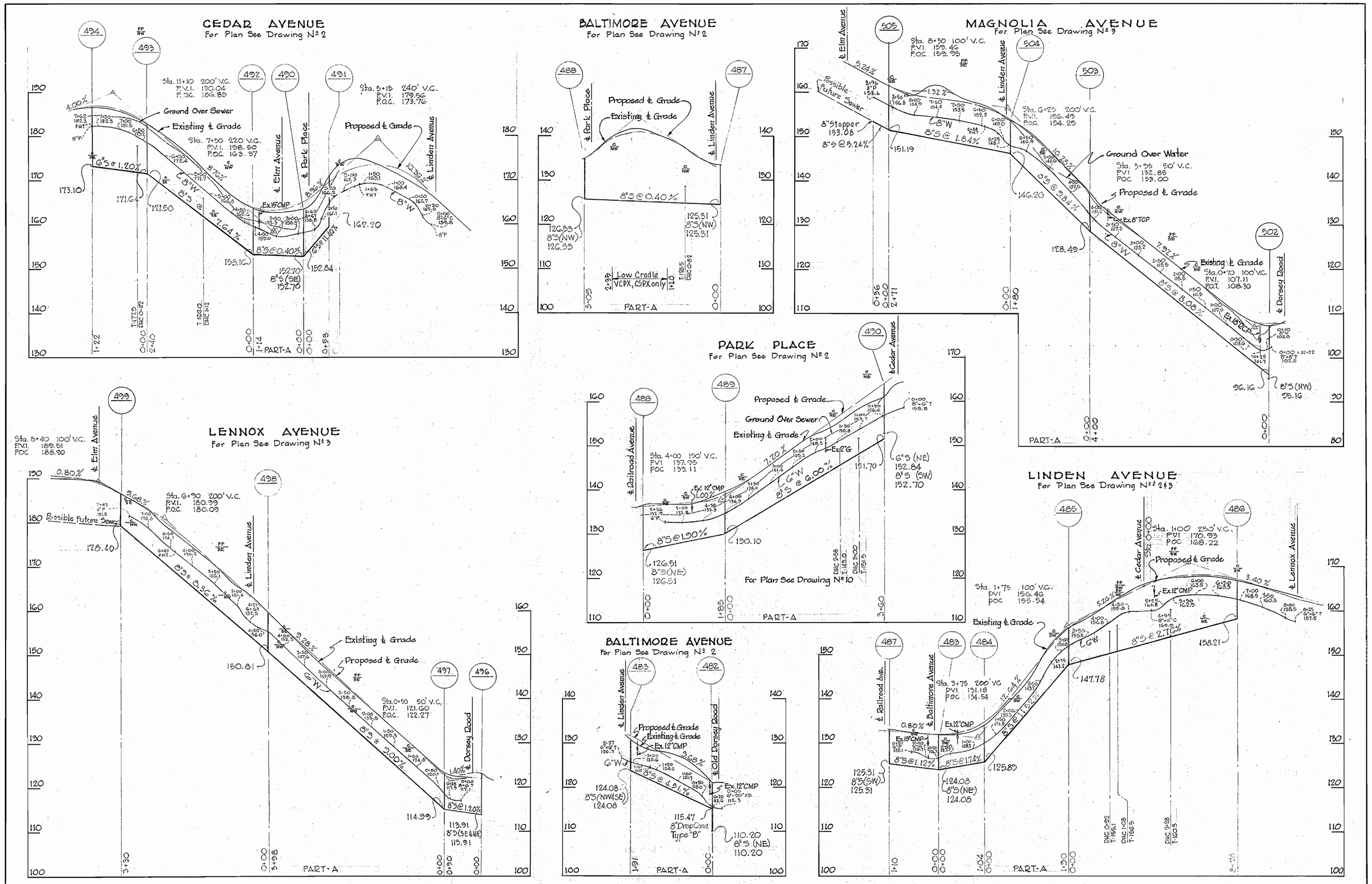
AS BUILT

REV. 5 NOV. 63

14 MAY 63

F.B. 2564

WS 24 W-S/4



Contract Nº 24 W&S

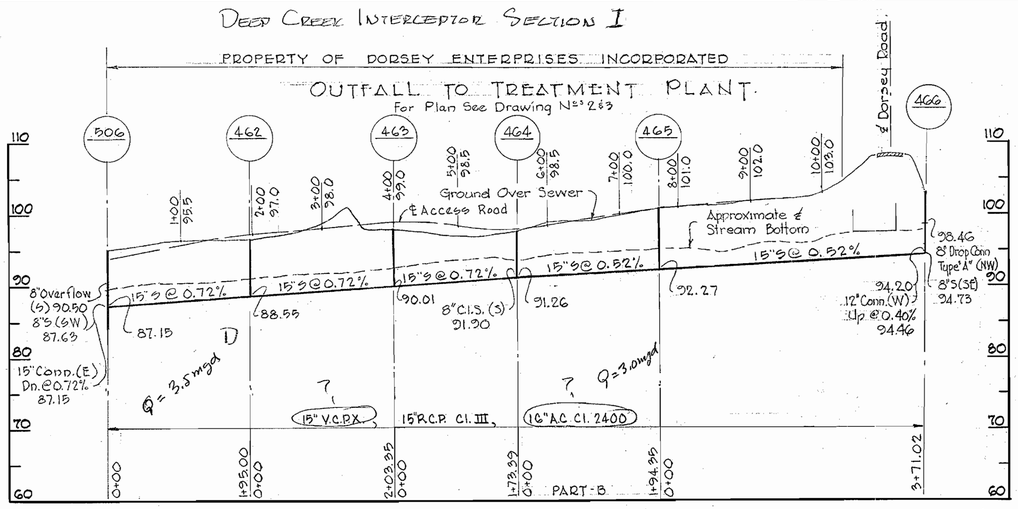
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION March 24, 1961 (DATE) — Carl W. Meyer (CHIEF ENGINEER)	CONTRACT NO. 24 W&S	PROFILES OF WATER & SEWER MAINS	DORSEY SUB-DISTRICT	DRAWING NO. 5 OF 9	SCALE H: 1" = 100' V: 1" = 10'

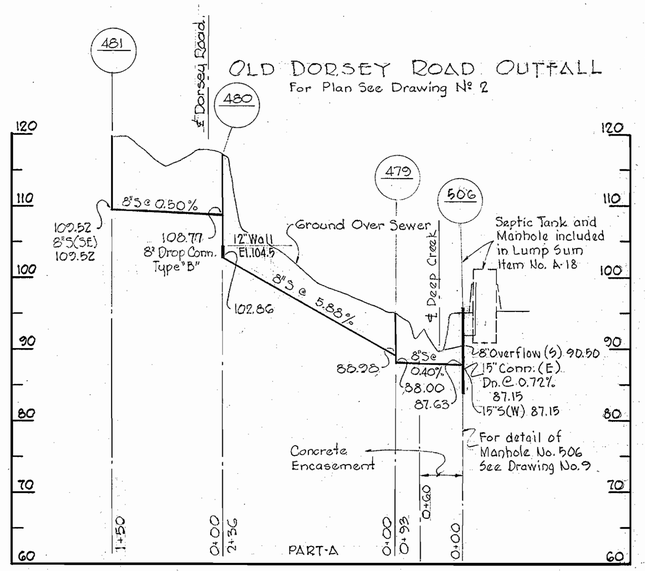
W. O. 4918-2

AS BUILT 14 MAY 63

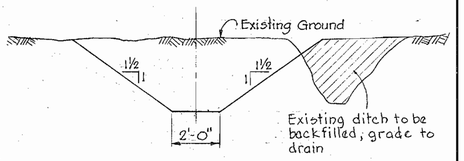
ELLIOTT CO., PITTSBURGH REORDER A-39070

5/5/24 W&S

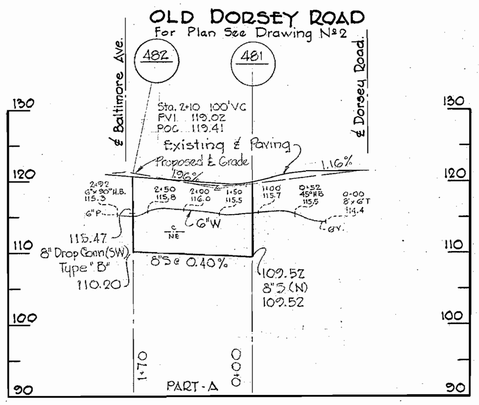


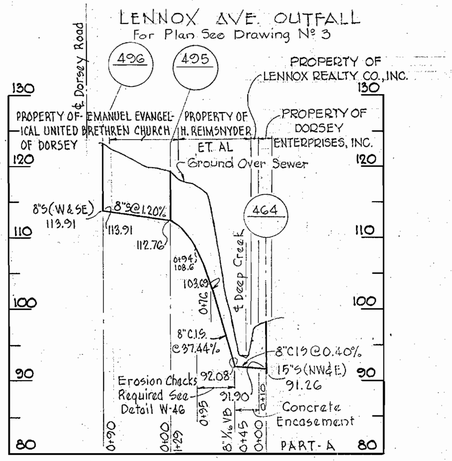


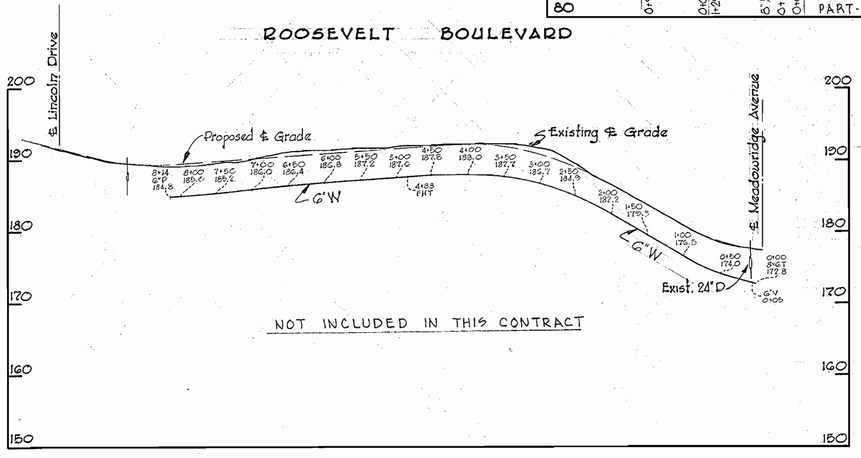
NOTE:
Cost of relocating ditch to be included in unit price bid for excavation and backfill for sewers.

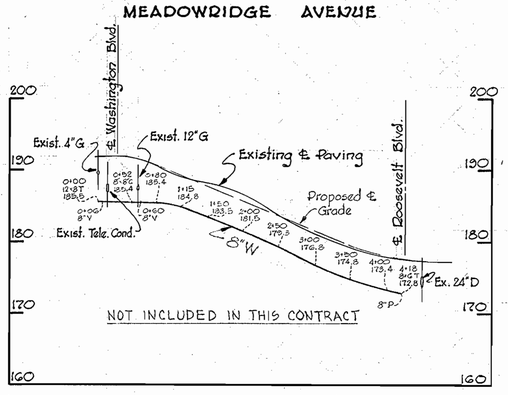


DITCH SECTION
Scale: 1" = 3'-0"









GENERAL NOTES

1. Approximate location of existing mains are shown. The Contractor shall take all necessary precautions to protect the existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately.
2. All pipe elevations shown are invert ℄ elevations.
3. The Contractor shall locate existing utilities a minimum of two weeks in advance of construction operations in vicinity of utilities.
4. The location of all valves, fittings etc. have been located in plan and dimensions shall be strictly adhered to unless otherwise directed by the Engineer in writing.
5. Bury Line elevation on Fire Hydrants shall be set the same as edge of paving or as directed by the Engineer in the field.
6. For all standard details see Standards bound in Specifications.
7. Block all fittings with concrete. See Standard Details.
8. All 6" & 8" W to be Class 22 C.I.P. Water Mains to have a minimum of 3½' cover unless otherwise noted.
9. Before digging pipe, pushing or doing other work near Telephone Cables call collect any time Lexington 9-9900 Ext. 553, 554 or 555, Baltimore, Maryland.
10. Clear all poles by 2'-0" minimum.
11. All 8" Cast Iron Sewer mains shall be Class 22 unless otherwise noted.
12. Build all manholes to existing ground or paving unless otherwise shown or directed by the Engineer.
13. Cost for Erosion Checks shall be included in the unit price bid for furnishing and laying cast iron sewer mains.
14. All sewers shall be V.C.P.X., C.S.P.X. or Asbestos Cement Class 2400 unless otherwise noted.

Contract No 24 W & S

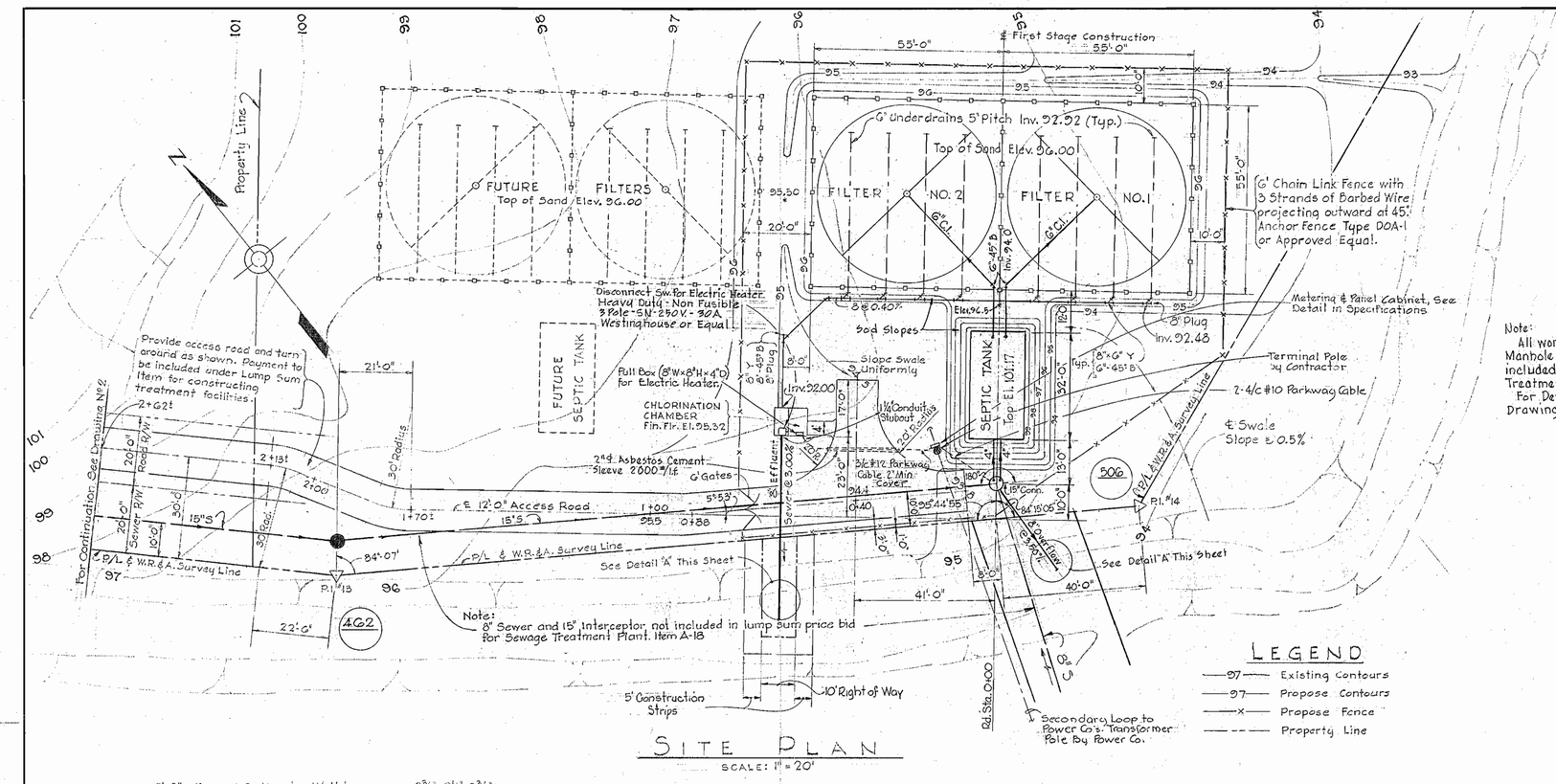
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION March 24, 1961 (DATE) — Carl W. Meyers (CHIEF ENGINEER)	CONTRACT NO. 24 W&S	PROFILES OF WATER & SEWER MAINS	DORSEY SUB-DISTRICT	DRAWING NO. 6 OF 9	SCALE H: 1" = 100 V: 1" = 10

W. O. 4918-2

AS BUILT 14 MAY 63

WS 24 W-S/6

ELLIOTT CO., PITTSBURGH REORDER A-39070



SITE PLAN

SCALE: 1" = 20'

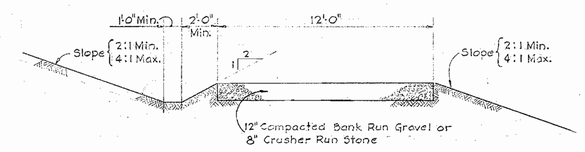
NOTES

1. Sand for filter bed shall have an effective size of 0.5-0.6 m.m. and a uniformity coefficient of 1.75 max.
2. Pump discharge piping shall be galvanized steel A.S.T.M. A120 schedule 40. Galvanized fittings shall be malleable iron ASA B16C-1939 Class 150.
3. Wood plank walls shall be as specified under note 1 on sheet No. 8
4. Contractor shall strip and store the top soil, from all disturbed areas within the fence area. Upon completion of construction, the contractor shall distribute uniformly the top soil and sod, all disturbed areas within the fence area.
5. Septic Tank effluent piping shall be cast iron, mechanical joint. Class 22

Note:
All work shown on site plan, including Manhole № 506 and Access Rd, to be included in Lump Sum Bid for Sewage Treatment Plant Item A-18
For Details of Manhole № 506, See Drawing № 9.

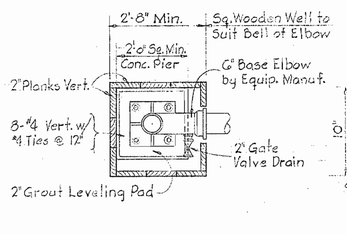
LEGEND

- 97 — Existing Contours
- 97 — Propose Contours
- —x— Propose Fence
- — — — Property Line



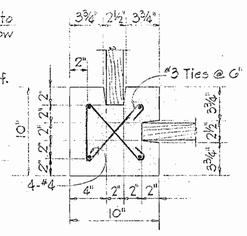
TYPICAL SECTION - PLANT ACCESS ROAD

SCALE: 1/4" = 1'-0"

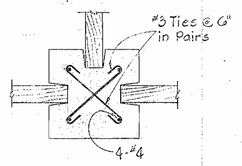


SECTIONAL PLAN THRU WOODEN WELL

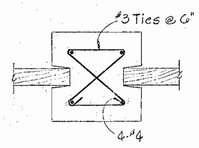
SCALE: 1/2" = 1'-0"



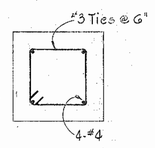
TYPICAL CORNER POST



TYPICAL TEE POST



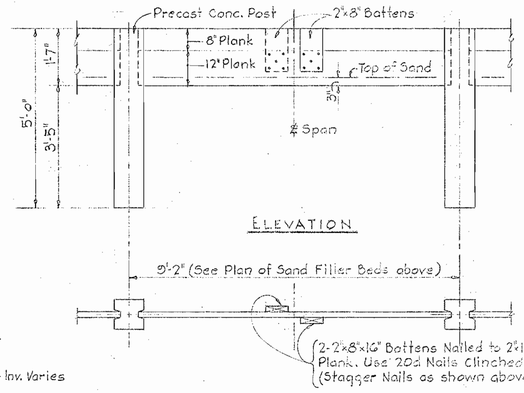
TYPICAL LINE POST



POST BELOW TIMBER

Note: All dimensions and details same as Corner Post.

SCALE: 1½" = 1'-0"

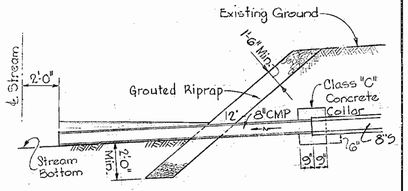


ELEVATION

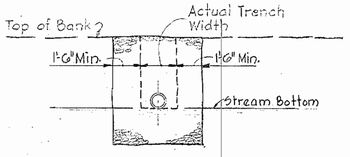
PLAN

DETAILS OF WOOD PLANK WALL

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



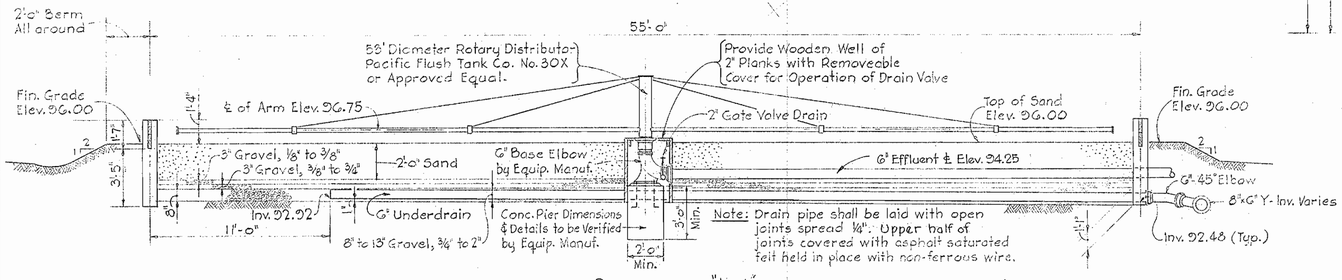
SECTION



ELEVATION

DETAIL "A"

SCALE: 1/4" = 1'-0"



SECTION "A-A"

SCALE: 1/4" = 1'-0"

SAND FILTER BEDS

PART - B

Contract № 24 W&S.

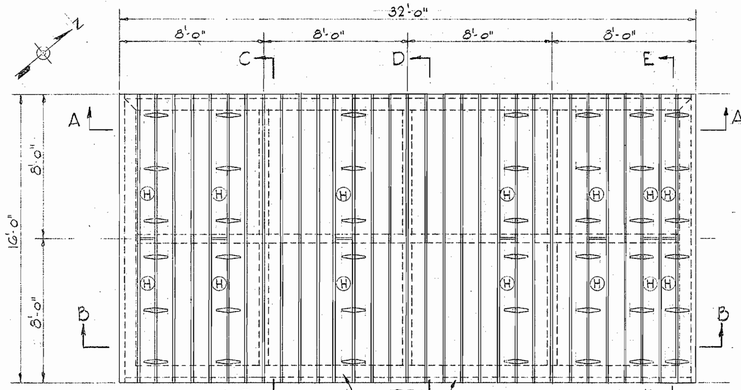
WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION March 24, 1961 DATE — Carl W. Mayer CHIEF ENGINEER	CONTRACT NO. 24 W&S	SEWAGE TREATMENT PLANT SITE PLAN & DETAILS	DORSEY SUB-DISTRICT	DRAWING NO. 7 OF 9	SCALE AS SHOWN

W. O. 4018-2

AS BUILT 14 MAY, 63

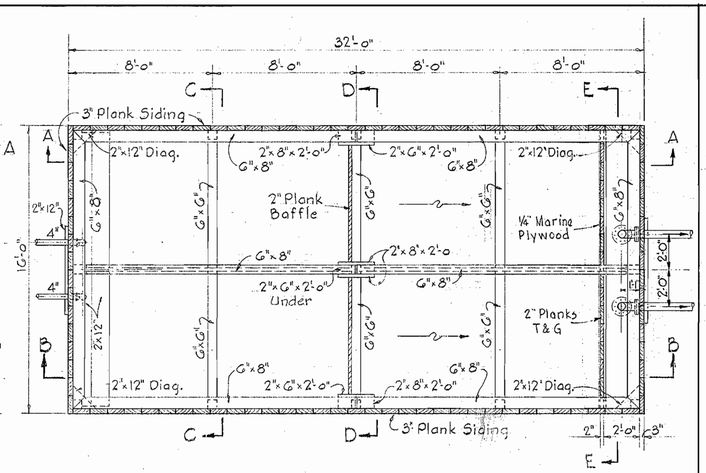
WS 24 W-S/7

ELLIOTT CO., PITTSBURGH REORDER A-39070



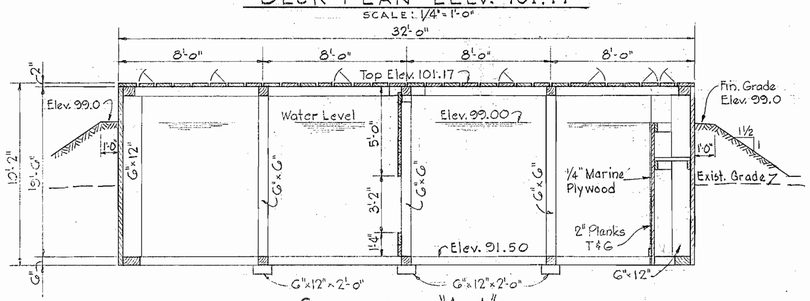
DECK PLAN - ELEV. 101.17

SCALE: 1/4" = 1'-0"



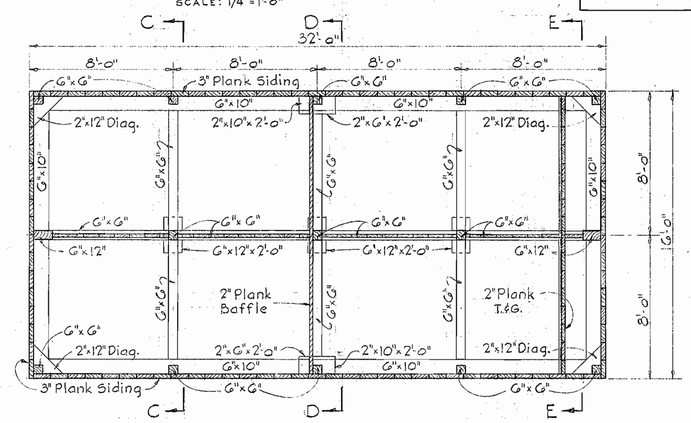
PLAN OF TOP WALES AND STRUTS

SCALE: 1/4" = 1'-0"



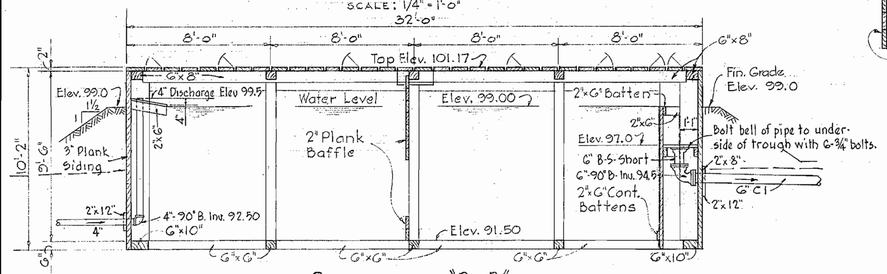
SECTION "A-A"

SCALE: 1/4" = 1'-0"



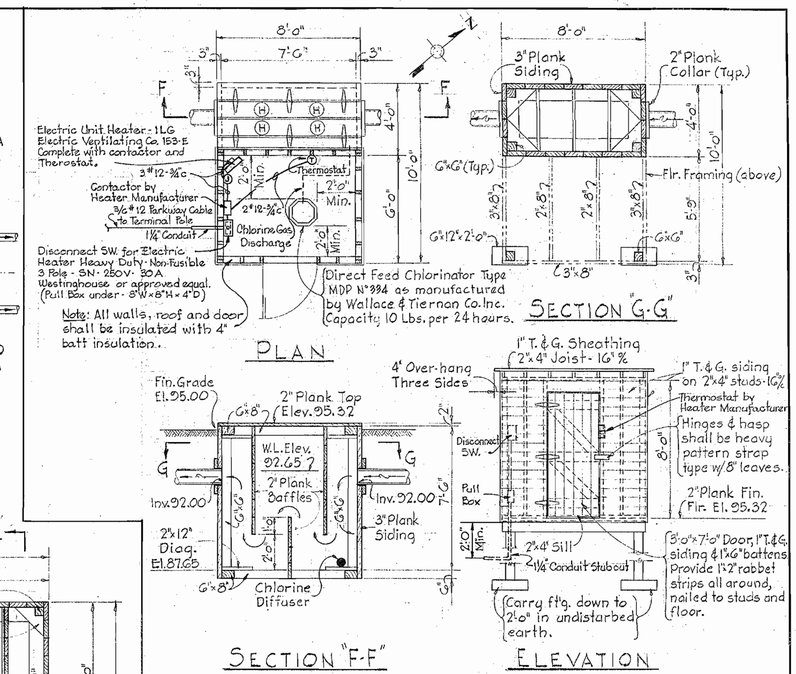
PLAN OF BOTTOM WALES AND STRUTS

SCALE: 1/4" = 1'-0"



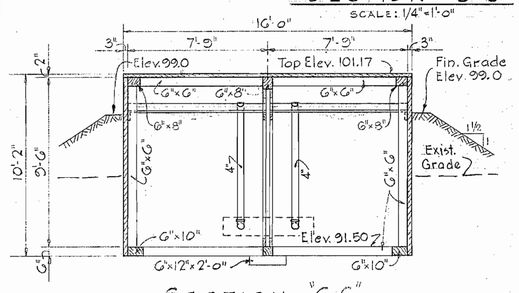
SECTION "B-B"

SCALE: 1/4" = 1'-0"



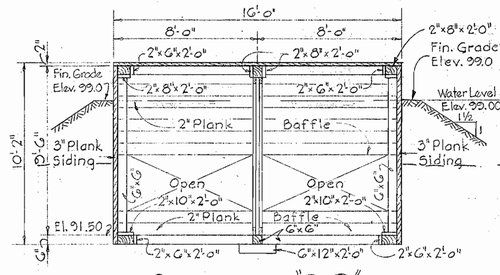
CHLORINATION CHAMBER

SCALE: 1/4" = 1'-0"



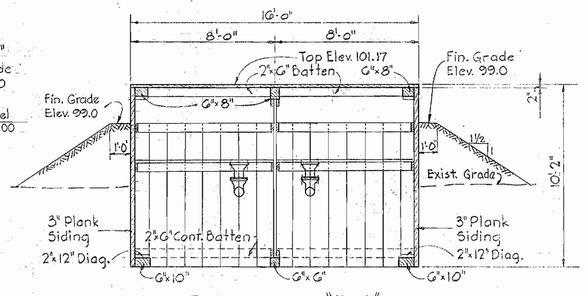
SECTION "C-C"

SCALE: 1/4" = 1'-0"



SECTION "D-D"

SCALE: 1/4" = 1'-0"



SECTION "E-E"

SCALE: 1/4" = 1'-0"

NOTES

1. Planking for deck, sides, baffles, troughs; etc. may be rough sawn, undressed oak, pine or fir. Wales, struts, post, beams, etc., may be rough sawn or dressed at option of contractor.
2. Deck planking shall be 2"×12" - ¼" space between planks. See Deck Plan.
3. Side, baffle and trough planking shall be butted tight and may vary from 6" to 12" in width.
4. Side planking shall be fastened with 2-40d nails per plank at top and bottom wales.
5. Baffle and trough planking shall be securely fastened in place. Provide battens, brackets, etc., of 2" lumber as required.
6. Wales, struts, posts, beams, etc., shall be neatly fitted at bearing points and shall be securely fastened in place.
7. Roof of chlorine shed to overhang 1'-0" on door side.
8. Roof of chlorine shed shall be covered with 2-ply tar paper laid in hot tar. All laps shall be nailed. Apply hot tar mop coat over covering.
9. Sides and roof of chlorine shed shall be of No. 2 common dressed pine or fir.

DESIGN DATA

POPULATION CAPACITY

100 Houses at 3 persons per house = 300 persons

SEWAGE QUANTITY

300 persons at 90 gal./capita/day = 27,000 gal./day (18.75 g.p.m.)

Volume Septic Tank = 28,800 gal.

Volume Chlorine Tank = 1,200 gal.

Detention Time at 18.75 g.p.m = 64 min.

Sand Filter Bed Area = 6,050 S.F.

PART - B

Contract Nº 24 W&S

WHITMAN, REQUARDT & ASSOCIATES ENGINEERS 1304 ST. PAUL ST. BALTIMORE, MARYLAND	HOWARD COUNTY METROPOLITAN COMMISSION March 24, 1961 (DATE) — Carl A. Morgan (CHIEF ENGINEER)	CONTRACT NO. 24 W&S	SEWAGE TREATMENT PLANT DETAILS	DORSEY SUB-DISTRICT	DRAWING NO. 8 OF 9	SCALE AS SHOWN

W. O. 4918-2

AS BUILT 14 MAY, 63

W&S 24 W-S/8

ELLIOTT CO., PITTSBURGH REORDER A-39070