

NOTE:

THIS DRAWING WAS PREPARED FROM INFORMATION FURNISHED ON AN S-435 SKETCH.

ALL UTILITIES AVAILABLE

NO MANHOLES, PITS OR BASEMENTS EXIST WITHIN 20' OF TAX AREA.

REV No	DATE	REVISION MADE	MADE BY
SUN OIL COMPANY WESTERN ENGINEERING DEPARTMENT 2117 NATIONAL BANK BLDG. DETROIT 26, MICHIGAN 6315 SOUTH HARLEM AVENUE CHICAGO 38, ILLINOIS			
SERVICE STATION PLOT PLAN S.W.C. DUNDEE RD. RTE. 68 & GEORGE RD. WHEELING — ILLINOIS			
DRAWN BY R.D.H.	DATE 8/15/68	SCALE 1" = 30'	
CHECKED BY D.N.R.	WC No 5788	DRAWING No	REV No
APPROVED <i>[Signature]</i>	SHEET	SHEETS	C2-128
REGIONAL ENGINEER			

ROOF PLAN
SCALE 1/8" = 1'-0"

PLAN OF CONCRETE... OTHER C... TE L... E... CHEDULE ABO E... # 3-257

The President and Members of the
 Village Council
 Wheeling, Illinois

Gentlemen:

We, the undersigned, are owners of real estate located within Two hundred (200') feet of the following described property:

That part of lot "A" located at the Southwest corner of George and Dundee Roads (Ill. 68), having a usable frontage on Dundee Road of One hundred Thirty-two (132') feet and a usable frontage on George Road of One hundred Forty (140') feet approximately; in Dunhurst Subdivision Unit No. One, of part of the Southeast Quarter of Section 3, Township 42 North, Range 11, East of the Third Principal Meridian, and part of the Northeast Quarter of Section 10, Township 42 North, Range 11, East of the Third Principal Meridian, according to plat thereof registered in the office of the Registrar of Titles of Cook County, Illinois, on May 3, 1955, as Document No. 1591895 and Certificate of Correction thereof registered in the Office of the Registrar of Titles as Document No. 1699072.

We indicate by our signature below that we do not object to the erection and operation of a modern, two-bay gasoline, service, and filling station of Sun Oil Company design on the above mentioned property.

<u>NAME</u>	<u>ADDRESS</u>	<u>LEGAL</u>
Herzog Building Corporation	South side property of commercial Dundee Road, usable/fron-	That part of lot "A" loc- ated at the Southwest
<i>W. P. ...</i> Executive Vice President	tage of 700 feet, and the	corner of George and
<i>James P. Herzog</i> Secretary	West side of George Road, commercial usable/frontage of 50 feet.	Dundee Roads (Ill. 68), having a usable frontage
_____	_____	on Dundee Rd. of 700 feet
_____	_____	and a usable frontage on
_____	_____	George Rd. of 50 ft. in
_____	_____	Dunhurst Sub. Unit No. 1,
_____	_____	of pt. of the SE 1/4 of
_____	_____	Sec. 3, T. 42 N., Range 11
_____	_____	E. of the 3rd P.M., and pt.
_____	_____	of the NE 1/4 of Sec. 10,
_____	_____	T. 42 N., Range 11, E. of the
_____	_____	3rd P.M., according to plat
_____	_____	thereof registered in the
_____	_____	office of Registrar of Titles of
_____	_____	Cook Cty, Ill. on May 3, 1955.
_____	_____	as Doc. No. 1591895 and Cert.
_____	_____	of Correction thereof registered
_____	_____	in the Office of Registrar of
_____	_____	Titles as Doc. No. 1699072

JWC

SERVICE STATION SPECIFICATION

Location: Dundee & George Rd.
132 x 140

Specification No. WC 2788
Work Auth. No.

I N D E X

SEC. NO.	HEADING	PAGE	SEC. NO.	HEADING	PAGE
GENERAL CONSTRUCTION CONDITIONS					
1.	General Conditions	1	24.	Excavation, Fill, Grading	5
2.	Scope of Work	1	25.	Structural Steel & Miscellaneous Iron	5
3.	Drawings under Scope of Work	1	26.	Carpentry, Millwork & Lumber	5
4.	Permits, Fees, Surveys, etc.	1-2	27.	Wallboard	6
5.	Independent Contractor	2	28.	Overhead Doors	6
6.	Bond	2	29.	Plaster	6
7.	Insurance --- Watchmen	2	30.	Masonry, Brickwork, Blockwork	6
8.	Materials and Workmanship	3	31.	Steel Sash	7
9.	Inspection and Correction of Work	3	32.	Concrete Work, Portland Cement	7
10.	Errors and Omissions	3	33.	Bituminous Drives (8" thick)	8
11.	Owner's & Engineer's Status	3	34.	Parking Area	8
12.	Occupancy & Cleaning Up	3	35.	Roofing and Sheet Metal	8
13.	Extras	3	36.	Glass and Glazing	8
14.	Completion of Contract by Owner	3	37.	Tile, etc.	8
15.	Termination of Contract	3-4	38.	Metal Toilet Partition	8
16.	Waiver of Liens	4	39.	Plumbing, Air & Lift Oil Piping	9
17.	Release of Liens	4	40.	Heating	9
18.	Payments	4	41.	Painting	10-11
19.	Guarantee	4	42.	Electrical	11
20.	Arbitration	4		Addenda	
DETAILED MATERIAL CONDITIONS					
21.	General	5			
22.	Material by Owner	Addenda & 5			
23.	Demolition & Clearing Site	5	60.	Dispensing and Advertising	

GENERAL CONSTRUCTION CONDITIONS

1. GENERAL

The following "General Construction Conditions" are for the guidance of Contractor and sub-contractors, and shall be considered as forming part of each section of the Detailed Material Conditions of these Specifications and as such shall be binding upon Contractor for each separate branch of the work.

THE ENGINEER WILL BE: _____

2. SCOPE OF WORK

The Contractor shall furnish all necessary labor, tools, permits, services, equipment and material (except as indicated as "FURNISHED BY OWNER") and shall construct a complete Service Station ready for use in accordance with the Agreement or Purchase Order, Drawings and these Specifications; including building; water, plumbing, sewer, air, heating and electrical systems; painting; glass and glazing; driveways; approaches, curb cuts; sidewalks; excavations, grading and filling; clearing site; fence; island lights; floodlights; and any other work indicated. When these specifications include Section 60 the work includes the Dispensing and Advertising Equipment as indicated.

3. THE DRAWINGS REFERRED TO UNDER "SCOPE OF WORK"

Are the Plot Plan No. _____ and the Reference Drawings listed on the Plot Plan.

When these Specifications include Section 60, Dispensing and Advertising Equipment, the Reference Drawings on the Plot Plan for Dispensing and Advertising Equipment are part of the contract drawings.

The Plot Plan shows the location and conditions on the particular site to which the Contractor shall adjust and adapt the standard details shown on the Reference Drawings. These Specifications contain construction and material conditions applicable to and which supplement the details shown on the Reference Drawings and Plot Plan.

4. PERMITS, FEES, SURVEYS, ETC.

The Contractor shall obtain, pay for, and assume all responsibility for all necessary or required permits, licenses, etc., and property stake-out, except any which may be specifically mentioned in these Specifications as furnished by Owner. Photostatic or duplicate copies of all permits must be sent to the Owner before any work is started and the Purchase Order or Agreement shall NOT be considered binding unless such permits are obtained and furnished Owner.

The following permits have been obtained by Owner and Originals or copies of these permits will be handed to the Contractor before construction starts.

<u>PERMIT FOR</u>	<u>NUMBER</u>	<u>DATE</u>	<u>BASE ON: (DRAWING NO. OR SKETCH)</u>
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Drawings and these Specifications are prepared as general standards but some one or more items may have to be changed to conform with local regulations. A contractor performing work in a locality is presumed to be familiar with local requirements and has made a bid with allowances for incorporating necessary changes to conform therewith.

If changes required by local authorities are not approved by Owner, or if permits, or other necessary authorizations satisfactory to Owner or other approvals cannot be obtained, all within a reasonable length of time, Owner can terminate any contracts or agreements covering this work by giving Contractor three (3) days' written notice. Owner may then abandon work entirely or take any other course Owner may see fit, but any expenses incurred by this Contractor with the approval of the Owner, as cash payments to authorities for permits, hearings, applications in connection with the proposed contract, shall be paid to Contractor upon written presentation to Owner of the detailed expenditures.

When Owner is ready to have work performed, Owner or the Engineer will indicate by Purchase Order or signed Agreement sent to the Contractor that construction can start on the basis of Drawings and Specifications and contract price if permits, licenses, insurance certificates, bond, etc., are obtained by Contractor as specified. Inspection certificates, tests, guarantees, and the like shall be paid for by the Contractor and turned over to Owner before final payment is made.

5. INDEPENDENT CONTRACTOR

Contractor agrees that in the performance of the work hereunder, Contractor shall be deemed to be an Independent contractor and as such assumes full responsibility and liability for the performance thereof. The servants, agents, employees and sub-contractors of Contractor engaged therein shall not be deemed to be employed or hired by Owner.

Contractor agrees that all labor in his and sub-contractors' employ will receive wage rates prevailing for the type of work performed in the locality of this work.

6. BOND

Before starting work the Contractor shall furnish a bond, acceptable to Owner, covering the complete performance of the contract and payment of all obligations. Cost of the bond shall not be included in the bid. Owner will purchase direct ~~Company for the same~~

7. LOSS OR DAMAGE: INSURANCE: WATCHMEN

Contractor shall be responsible for and shall indemnify Owner or any third party against any loss, including expenses, arising from any claim, suit or action which may be brought, for any loss or injury sustained in connection with the work to be performed hereunder by Contractor, his sub-contractors or their respective agents, servants, or employees or as a result of the condition of the premises during the course of said work.

Owner will carry Fire and Standard Form Limited Extended Coverage insurance during construction on completed work in place and on materials and equipment which will be incorporated in the work if on the premises and if paid for by Owner. Except to the extent that losses or damage are covered by the Fire and Standard Form Limited Extended Coverage Insurance carried by the Owner, as aforesaid, the Contractor shall be responsible for any loss or damage from any cause whatsoever to tools, structure, work done, material equipment, whether materials or equipment are furnished by the Contractor, or the Owner, or others, until final acceptance of the work.

The Contractor shall maintain at all times the following insurance coverage and before commencing work Contractor shall furnish Owner for approval and retention by Owner certificates signed by the carrier or carriers showing:

- (a) Workmen's Compensation Insurance complying with the law of the State in which the work is to be performed.
- (b) Contractor's Public Liability, \$20/40,000.00
- (c) Contractor's Property damage, \$1,000.00/\$10,000.00
- (d) In the event automotive or rolling equipment used on the job is owned by the Contractor, certificate will indicate Public Liability Insurance \$20/40,000.00, Property Damage \$5,000.00 on all such equipment.

Such certificate or certificates should be addressed to the Owner and should provide for five (5) days' advance notice to the Owner of cancellation or change. Show agent's name and address on certificates.

Smoking, open fires, lanterns, shall not be permitted in hazardous locations or when inflammable liquids are stored on premises. Provide watchmen, if necessary, to eliminate losses and provide protection.

8. MATERIALS AND WORKMANSHIP

The Contractor shall provide and pay for all materials, labor, water, tools, equipment, light, power, transportation and other facilities necessary for the execution and completion of the work. Unless otherwise specified all materials shall be new and both workmanship and materials must be of good quality and equal to the Specifications of and approved by the Engineer. The Contractor shall, if required, furnish samples or satisfactory evidence as to the kind and quality of materials.

9. INSPECTION AND CORRECTION OF WORK

The Owner or the Engineer shall at all times have access to the work and the Contractor shall provide for such access and for inspection. If upon inspection certain work is found to be not in accordance with the contract documents, same must be immediately removed and replaced to the Engineer's satisfaction. Any payment or part payment therefor shall not be considered as an acceptance of the work.

10. ERRORS AND OMISSIONS; EXAMINATION OF SITE; CHANGES

The Owner will not be responsible for errors or misunderstandings on the part of the Contractor for failure to secure written instructions from the Owner or Owner's representative, in cases of errors or omissions in or conflicts between the Drawings, Specifications and existing conditions. Contractor, before submitting proposal, has visited the site, is familiar with existing conditions and fully understands the Scope of Work included.

Claims for adjusting Contract Sum will not be allowed by the Owner if the Contractor fails to follow the procedure outlined above and to request and obtain in writing before executing the work an order from the Owner including an agreement on cost for any changes required.

11. OWNER'S AND ENGINEER'S STATUS

The Owner reserves the right to reject any or all bids and to let other contracts for associated work and this Contractor shall cooperate with the other contractors in accordance with specific instructions of Engineer with respect thereto.

As a duly authorized representative of the Owner, the Engineer will be the interpreter of the intent and meaning of Plans and Specifications and will have general supervision and direction of the work, dealing solely with the Contractor and not sub-contractors. He will have full authority to stop the work when such stoppage may be necessary to insure proper execution of the contract. The Engineer's approval is required on all invoices rendered.

12. OCCUPANCY AND CLEANING UP

Owner shall have the right to occupy the premises for business prior to completion of the work by the Contractor but such occupancy shall not be construed by the Contractor as final acceptance of any portion of the work.

The Contractor shall at all times keep the premises free from accumulations of waste material or rubbish, and at the completion of the work the Contractor shall remove all rubbish from and about the building and all tools, scaffolding and surplus materials and shall leave the premises "broom clean" ready for occupancy. The cleaning of all glass is included.

13. EXTRAS

Positively no extras will be allowed unless the Owner has agreed to the cost of same before the work is done and written order is issued.

14. COMPLETION OF CONTRACT BY OWNER

If the Contractor shall fail to perform any of his obligations under this contract, the Owner may give written notice thereof to the Contractor, and if the Contractor shall not correct the deficiencies within three days of the date of such notice, the Owner may, without prejudice to any other remedy he may have, make good the deficiencies and deduct the cost thereof from any amount due or to become due to the Contractor, provided, however, that the Engineer shall approve both such actions and the amounts charged to the Contractor.

15. TERMINATION OF CONTRACT

If the Contractor should be adjudged a bankrupt or if he should make a general assignment for the benefit of his creditors, or if a receiver should be appointed on account of insolvency, or if the Contractor should refuse or fail to supply enough properly skilled workmen or approved materials, or if the Contractor should fail to make prompt payment to sub-contractors for material or labor, or disregard laws or the instructions of the Owner, or otherwise be guilty of violation of

any provisions of the contract, then the Owner may, without prejudice to any other right or remedy and after giving the Contractor seven (7) days' written notice, terminate the work of the Contractor hereunder, withhold any monies due the Contractor at the time of termination, and take possession of the premises and all materials, tools and appliances thereon, and finish the work by whatever method the Owner may deem expedient, charging the cost of same to the Contractor.

16.

17. RELEASE OF LIENS

The Contractor shall be required before final payment is due to furnish a complete release of all liens arising out of this contract, or, in lieu thereof, receipts in full, together with an affidavit that so far as the Contractor has knowledge or information the releases and receipts include all the labor and material for which a lien could be filed. If any sub-contractor shall fail or refuse to execute a release or receipt in full, the Contractor may furnish a bond satisfactory to the Owner, to indemnify him against any lien.

18. PAYMENTS

Payment of the contract price will be made as follows:

(a) Four partial payments when, in the opinion of the Engineer, the contract work is one-quarter, one-half, three-quarters and substantially completed (but not finally accepted), each such payment to be in an amount equal to eighty-five percent of one-quarter of the contract price.

(b) Final payment of the retained fifteen per cent of the contract price within thirty (30) days from the date of final acceptance of the completed building and improvements.

All invoices for payments shall be approved by the Engineer and submitted in triplicate to the Owner. **A record drawing of all underground piping, utilities, conduit, etc., shall be furnished by the contractor upon completion of work.**

19. GUARANTEE

The Contractor shall make good at his own expense any defect, settlement, damage or injury to any portion of the work arising from improper workmanship, carelessness or defective material, which may appear within one year after its final acceptance. The Contractor shall be responsible for and pay for any violations or infringements of patent rights on any devices or appliances used on the premises for any reason whatever.

20. ARBITRATION

Any controversy or claim arising out of or relating to this contract or the breach thereof shall be settled by arbitration in accordance with the Rules, then obtaining, of the American Arbitration Association.

DETAILED MATERIAL CONDITIONS

21. GENERAL

The General Construction Conditions of these Specifications are a part of each section of the Detailed Material Conditions of these Specifications.

22. SUMMARY OF MATERIAL FURNISHED BY OWNER (OR OTHERS)

See the attached addenda page(s) for summary of material furnished by Owner (or others) and for modifications of this standard specification to fit conditions at this site.

(Note: If above items are sent freight collect, Contractor shall receive and pay freight. Owner will reimburse Contractor upon presentation of receipted freight bills.) UNDER NO CONDITIONS SHOULD CONTRACTOR ACCEPT A COLLECT DELIVERY WITHOUT PAYING FREIGHT CHARGES. IF SHIPMENT IS REFUSED WIRE REGIONAL ENGINEER AT ONCE. For receiving these items the following obvious instructions are included: Contractor - 1) shall receive above items and shall carefully check with the delivery tickets, and note and have carrier acknowledge thereon any shortages, damage, rattling or broken seals; 2) shall check contents, quantity (with packing slip) and condition before storing; 3) shall sign and turn over all delivery tickets and packing slips and immediately report any discrepancies to Engineer; 4) shall post notice on site instructing carrier in case delivery is attempted when Contractor is absent; and 5) shall pay any demurrage or additional handling if delivery is refused.

23. DEMOLITION AND CLEARING SITE

Contractor shall remove or relocate, as required or indicated, all structures, trees, stumps, poles, catch basins, fire plugs, valve boxes, etc., to fit new construction or as called for. If Contractor's own employees perform demolition work, Contractor's insurance must specifically cover the demolition contemplated. Foundation walls of demolished structures shall be removed to one foot below finished grade, and cellars shall be left broom clean.

24. EXCAVATION, FILL, GRADING

Contractor shall do all excavating, back-filling, filling and grading, including necessary shoring, underpinning, pumping, hauling, top soil, etc., indicated and required for the finished grades, surfaces and structure shown. When, with the approval of the Engineer, it is found necessary to remove over one cubic yard of rock or old concrete that was not evident on site inspection, it will be paid for as an extra if the unit price is submitted with the bid.

Fill shall be made of clean, unfrozen, ~~earth~~ gravel or sand (free from refuse or organic matter), placed in eight inch (8") layers and solidly compacted by rolling or tamping. Excess excavated material shall be removed from the site.

25. STRUCTURAL STEEL AND MISCELLANEOUS IRON

Including all anchor bolts, any pit covers and frames, shall be according to the latest specifications of the A.I.S.C. of the size and weight shown and with a shop coat of chromic metal primer paint, unless galvanized.

26. CARPENTRY, MILLWORK AND LUMBER

All carpentry and millwork including cant strips, barge boards; grounds for plaster; overhead door frames; tire racks; shelves; work bench; rough hardware and installation of finish hardware; is part of this work. Lumber for framing, carpentry and shelving shall be N. C. pine or fir, and for millwork ponderosa pine, white pine, redwood or spruce, finish grade "D" select or better, all sound, dry, free from loose knots, sap and other imperfections. All millwork shall be prime painted all surfaces after shellacking knots. The contract always includes the wood framing under metal coping and bands. Set nails in finish lumber. Exterior flush type doors shall be Weldwood, stay-strate, mineral core, birch face, paint grade, as made by U. S. Plywood Corp.

Fence posts shall be fir, locust or redwood with portion below grade treated with two coats of creosote. All other fence lumber to be N. C. pine, redwood or spruce, finish grade "D" select or better.

Caulk all joints around doors, windows and sash with a mastic caulking compound to make the joints air and water tight.

27. WALLBOARD

Whenever specifically called for, use U. S. Gypsum Company's 3/8" thick, recessed-edge Sheetrock or equal, in accordance with the manufacturer's Specifications. Joints to be sealed with approved sealer and strips of fabric, so as to produce a smooth, even finish.

28. OVERHEAD DOORS

Overhead doors shall be streamlined high-lift doors from approved manufacturer according to the latest Specification V-12. Include wood stops and glazing. Approved manufacturers are: Atlas Overhead Door Co., Barber-Colman Co., Better-Bilt Door Co., Clark Door Co., Crawford Door Co., Overhead Door Co., Huck-Gerhardt Co., Rowe Mfg. Co., Raynor Mfg. Co. **McKee Door Co.**

Doors to be furnished by - - a manufacturer having a representative capable of supplying parts and service in the area of the station.

29. PLASTER

Rock lath for plastered surfaces will be acceptable where permitted. Metal lath, of painted diamond mesh, expanded type weighing 3.4 pounds per square yard and applied according to manufacturer's instructions, shall be used unless other material is approved. Aggregate for base coats shall be clean sand or crushed stone screenings all passing #8 sieve with a large percentage retained on next smaller sieve and with not more than 5% dust.

Where metal lath joins a plastered surface on masonry, lap the metal lath 6" over the masonry. Plaster on metal lath shall total at least 3/4" thick, applied in three coats; and on block, brick or rock lath 5/8" except where 3/4" is required at openings, two coats. Finished plaster surfaces to have ~~sand-float~~ finish.

smooth

Scratch (on metal lath) and brown and finish coats shall be Gypsum Ready-sanded Plaster, Prepared Gypsum Sand Float Finish, Gypsum Wood-fiber Plaster, Gypsum Neat Plaster, as manufactured by U. S. Gypsum Company, or approved equal, or Portland Cement Plaster, and all applied in accordance with manufacturer's Specifications. For the Gypsum finish coat use one part Gypsum Neat Unfibred Plaster to two parts sand or the Prepared Gypsum Sand Float Finish. For Portland Cement Plaster use one part portland cement to three parts sand aggregate and if necessary up to ten pounds of lime per sack of cement, and one pound of long hair or fiber per sack of cement in the plaster scratch coat on metal lath.

30. MASONRY, BRICKWORK, BLOCKWORK

Concrete block shall conform to the A.S.A. Specifications A79.1-1953 and A81.1-1953. Blocks for load bearing piers and for the entire course supporting roof rafters in a load bearing wall shall be solid block or hollow block filled with mortar. Brick shall be standard size, red, hard-burned No. 1 common. Portland cement, waterproofed at mill, and hydrated lime shall conform to the Specifications of the A.S.A. Mortar sand shall be clean, all pass a #10 sieve and 30% retained on #30 sieve, with not more than 5% loam or clay.

Mortar below grade shall be composed by volume of one part portland cement, up to one-quarter part lime and three parts sand and for other work one part portland cement, one part lime and six parts sand. All joints shall be 1/2" thick completely filled with mortar, ~~troweled flush and wiped smooth~~ for exposed joints and raked for stucco or plaster. Brickwork to be common bond with every seventh course a through header course. Block or brick intersecting walls shall be securely masonry bonded, metal wall ties not being acceptable.

No masonry shall be laid in freezing weather, and all finished work shall be adequately protected against freezing.

Set lintels, wood strips, nailing blocks, anchors and concrete coping if indicated. Grout sash with cement mortar. When a masonry chimney is required install a brick or concrete block chimney around a 9" x 9" T. C. flue lining, with an 8" diameter thimble and a clean-out door.

31. STEEL SASH

Shall be as approved by the Engineer and as manufactured by Detroit Steel Products Co. or equal with one shop coat of paint. Projecting sash complete with glazing clips and padlock brackets and standard hardware to open out.

32. CONCRETE WORK: PORTLAND CEMENT

Concrete shall be either mixed on job or Certified Ready-Mixed in accordance with Specifications for Plain and Reinforced Concrete as prepared by the Portland Cement Association in their "Concrete Information No. ST27," (available Portland Cement Association, Chicago 10, Ill., or local branches) and Ready-Mixed concrete specification ASTM C94 and shall be according to the following:

Type	Item	Fixed Requirements				Variable
		Total Water Gal./Bag of Cement Maximum	Bags of Cement/C.Y. Minimum	Slump in Inches Maximum	Maximum Designated Size Coarse Agg. ASTM C33	Approximate Mix. by Vol.
A	Pavements*	5-1/4	6	4	1-1/2" to #4	1: 2: 3-1/2
A-1	Floors on Ground	5-1/2	6	3	1-1/2" to #4	1: 2: 3-1/2
B	Rod Reinforced Concrete	6	5-1/2	5	3/4" to #4	1:2-1/4:3-1/2
C	Unreinforced Footings and Walls Underground	7	5	6	1-1/2" to #4	1: 2: 4

* For exterior pavements only, use Type A Concrete with from 3 to 6 per cent air content using air entraining portland cement (in accordance with ASTM C175).

The actual mix is not fixed and may be varied for local aggregate to meet the fixed requirements. The sum of the fine and coarse aggregate in the above mixes indicates a maximum for the sum of the volumes of local aggregates.

Floors and walks on ground shall be unreinforced and four inches thick. Concrete drives and approaches shall be unreinforced and six inches thick unless another thickness is indicated.

The building floors shall be finished with a wood float after screeding, and followed by a steel trowel after sufficient time has been allowed for the wet sheen to disappear from the surface. Final steel troweling should be done after concrete is so hard that no mortar accumulates on the trowel and a ringing sound is produced as the trowel is forced over the surface. In this finishing no dry cement or mixtures of dry cement and sand shall be sprinkled directly on the surface to absorb moisture or to stiffen the mix. Other horizontal surfaces including drives, approaches, walks, curbs shall be finished with a hair bristle broom. Vertical surfaces shall be carborundum rubbed. The results shall be a smooth surface free from defects, blemishes and trowel marks.

Floors, except in heater and toilet rooms, shall be surface hardened with a mixture of zinc and magnesium fluosilicates equal to Lapidolith as manufactured by L. Sonneborn Sons, Inc. and applied one gallon per 100 sq. ft. in three coats, according to the manufacturer's specifications.

Cure floors for five days by completely covering with an asphalt-impregnated waterproofed paper, overlapping edges of paper and sealing with tape. ~~Concrete shall be covered with a curing compound or plastic sheeting immediately after finishing and kept moist or at least twice a day for five days, or until curing compound has set.~~ **For exterior concrete, use Master Builder's "Master-Cure", Truscon's "Tra-Cure", or Sonneborn Hydraside Curing Compound.**

Required expansion, contraction and mortised construction joints for floors and pavements are indicated. Premoulded asphaltic material or Flexcell shall be used for expansion joints. Use 3/8" thick, in curbs every 20 feet and across the walks at building corners and in building where shown. All joints and edges shall be marked with an edging tool.

Accurately set all anchor bolts in foundations and provide sleeves for piping, conduits, etc., where required.

33. BITUMINOUS DRIVES (8" THICK)

On a compacted base graded 8" below finish grade, place a two course pavement, the bottom course to be of 3" to 1-1/4" aggregate, either crushed stone, or gravel, or slag or other approved material, voids filled with stone chips or approved porous material and rolled until stabilized and solidly compacted (equal to compaction of a 10 ton roller) to a thickness of 6-1/2" and the top course of premixed asphaltic concrete, hot mixed, hot laid, with graded 3/8" stone (IV-C Exhibit 1, similar to Pennsylvania Highway Specification for Bituminous Surface Course) rolled until stabilized and solidly compacted to 1-1/2" thickness.

34. PARKING AREA

To be one course of approximately 1/2" to 3/4" sized crushed stone, slag or gravel with voids filled with crusher screenings or other suitable filler material rolled and sprinkled with water until stabilized and solidly compacted to 3" thickness. Leave in suitable place at site one cubic yard of screenings.

35. ROOFING AND SHEET METAL

Built-up 15-year composition flashing and roofing with slag or gravel surface shall be laid according to the specifications of the manufacturer and both workmanship and material guaranteed for this period by a roofer authorized by the manufacturer.

Where metal flashings and counterflashings are shown they shall be galvanized steel. Solder all joints. Gutters and downspouts, etc., shall be galvanized steel. ~~All metal to be given one coat - - of zinc primer, as manufactured by Middle Color Company, or Rustolene, as manufactured by Rustolene Paint Corporation before installation and painting by contractor.~~

36. GLASS AND GLAZING

Glaze all sash (including partitions) and doors shown (except overhead and main entrance door) with double thick "B" quality. Obscure glass, where called for, shall be equal to 1/8" Silverite. All glass to be bed and face puttied, using white lead putty on wood sash, and metal sash putty on steel sash. Wire glass, where required, shall be clear 1/4" thick.

Polished plate glass 1/4" thick, necessary break molding and sash equal to the Pittco members shown, shall be furnished and installed for show windows and main entrance door.

For mirrors, see schedule.

37. TILE ETC.

Wainscot in each rest room 5'-0" high, except at the mirror that is framed in tile per drawing, shall consist of:

Base	4 1/2 x 4 1/2	Cove	A-3401	(Mosaic #416 Reed Yellow
Cap	4 1/2 x 4 1/2	BN	A-4402	Color (or
Field	4 1/2 x 4 1/2)	(American-Olean #12 Buttercup

Floors random pattern 2-3/16 x 1-1/16 series, natural clay, cushion edge colored 8% of total area n 1-1/16 squares of dark brown and black within Harvest Range Granitex, (Mosaic's #1799-A35) or olden Range Varitone, (Olean's #OS-11714).

~~Set tile in thick bed of Portland cement mortar. Install toilet tissue holder, soap dispenser, mirror in each rest room with screws in lead shields or equal.~~

METAL TOILET PARTITION

Furnish and install when indicated on building drawing; a standard partition with paneled or b door and sides all with a shop baked enamel finish in light yellow #302. Partition shall be high, 12" off floor and 12" clearance to head rail brace and shall be complete with polished e or white non-corrosive metal; shoes, roller, gravity hinger, bumper, pull, latch, and coat Include wall brackets and fasteners.

39. PLUMBING

Shall consist of complete water, gas supply, vent, soil and drain systems, including fixtures, meter, piping, drains, septic tanks, drain field and connections to water, sewer and gas systems of municipality. Hot water piping is required from water heater location to lavatories, wash bay, and to any other locations shown. Provide certification or test (in presence of Engineer) for tightness of drainage, vent and water systems. Valve each water line at fixtures.

Water connections at island when indicated shall be provided with an accessible shut-off and drain at the low point in the water line.

Unless otherwise required: (1) in and within five feet of building, drain, soil and vent pipes shall be medium weight cast iron pipe, minimum size 4" for water closets and 2" for small fixtures, with short lead connections and with joints caulked with oakum and soft lead. (2) Other underground connections shall be minimum 4" for separate storm and sanitary lines or 6" for combined lines and of vitreous TC bell and spigot pipe, cement and oakum caulked. (3) Provide brass flush floor clean-outs at end of soil line in building and at each change in direction. (4) Water pipe to be copper tubing, sweated and soldered joints, minimum 1" for mains and 1/2" branches to fixtures, all protected from freezing. Exterior hose bibs where shown on plan shall be 8" #1207 Freezeless Faucet of Woodford Hydrant Company, Des Moines, Iowa, or equal.

Minimum size of ferrule connection to water main shall be 1".

Crane, Eljer, Standard or Kohler fixtures approved equal to the following Standard fixtures shall be used where called for or indicated.

Water Closet: F2100 Cadet with white hard rubber open front lidless seat or Standard Tank & Seat Company's #0-40 White Ebonite.

Lavatories: P4100-B-Ledgewood 19" x 17" with combination faucet, rubber stopper plug, and bead chain. Fittings, "P" trap, and exposed piping, to be chrome.

Sand and Grease Trap: Of approved design shall be installed as on plan, with connections to floor drains of lub and wash bays.

Urinal: F6000-1 China floor type, 3/4" top spud with exposed hand operated flush valve, 2" drain connection.

Floor Drain: Chrome, with chrome plated brass cover and 2" trap.

Air piping (1/2") and lift oil piping (1-1/4") complete as shown and to outlets shown with valves and other fittings shall conform to Section 60 of these Specifications. Test air and lift oil piping with 200# pressure in presence of Engineer. Fill lift oil system with oil before testing. Cover each joint in air piping with soap solution to test with air. Air piping to slope down to a low point at outlet.

Set and assemble lifts and compressor.

40. HEATING

Complete warm-air heating system, complete with ~~electrical~~, ducts and returns, of type shown on the drawings, shall be capable of heating office and toilets to a temperature of 70°F. and balance of building, to a temperature of 60°F when outside temperature is 0°F. Contractor shall provide for supports and for openings in building for heaters, heat conductors, radiation and fuel oil supply and return lines. Gas supply to heating unit is part of Plumbing. Test fuel oil piping and tank assembly with two pound (2#) air pressure and with soap solution applied to each joint.

41. PAINTING

Painting shall be in accordance with manufacturer's printed directions and the following color schedule. Use ready-mixed paint identified by the following codes, as stocked at the factory by the following manufacturers only:

Harrison Paint & Varnish Co.,
1329 Harrison Avenue, S.W.,
Canton, Ohio

Pittsburgh Plate Glass Company,
P.O. Box 268, Newark 1, N. J.
or nearest P.P.G. Warehouse

Sherwin-Williams Company,
92 Liberty St., N.Y. 6, N.Y.

The Glidden Company, Reading, Pa.

~~For White Masonry Coating only #111
Benjamin Foster Company,
4535 W. Girard Avenue
Philadelphia 31, Pa.~~

For Hydrocide Colorcoat only #113
L. Sonneborn Sons, Inc.
New York 16, N.Y.

Small emergency quantities of paint can be procured through the Regional Engineer. Fill nail holes, etc. with putty after prime coat. Unit heaters and suspended furnaces, exposed unfinished piping, ducts and unfinished lub equipment on walls or ceiling, shall be painted to match background finish, as instructed by Engineer. Grout shall be applied with a scrub brush. Grout shall be, by weight, 50% portland cement and 50% clean sand which passes a #20 sieve. It shall be mixed with water to a paint consistency and kept well mixed while applying. Wet wall with water before application. Apply to fill voids and smooth out the surface.

<u>EXTERIOR OF BUILDING:</u>		Code
Exterior masonry without porcelain or glass finish	White Colorcoat) 1 coat	111
	White Colorcoat)	113
Doors, Transoms and Frames (2 coats)		
Office	Grey White	101
Toilet rooms & others in same side of bldg.	White	106*
Overhead doors except bottom panel	White	106*
Bottom panel	Dark blue	200
Other doors, steel sash, chimney, vents above roof	Dark blue	200

<u>INTERIOR OF BUILDING:</u>		Code
	<u>General Preparation of Surfaces</u>	
Block or brick walls	Grout (1 coat) & tinted primer (1 coat)	059
Plastered & sheetrock walls or ceilings	Primer and sealer tinted (1 coat)	059
Wood (if not primed millwork)	Shellac knots and 1 coat of primer	059
Top of work bench, desk and counters	Linseed oil (1 coat)	
Galvanized heating ducts and plenum	Wash with vinegar plus aluminum (1 coat)	1200

<u>INTERIOR OF BUILDINGS:</u>		Code
	<u>Finish Coat (1 coat)</u>	
All painted ceilings (except Toilet Rooms)	White, Int. S.G.	102
Office and Sales Room:		
Base 6" high above floor	Dark Blue	200
Walls, transoms, glazed partition, show window jamb and head, and all wall shelves except:	Light Yellow	302
Counter surface of desk	Linseed Oil	
Edge of shelves	Dark Blue	200
Door and door trim, sill of show window	Dark Blue	200
Pipe column	Grey Aluminum	1200 701
Toilet Rooms: (Tiled surfaces are unpainted)		
Walls, doors, transoms, windows, partitions, ceiling	Light Yellow	302
Lubrication & Washing Bays, Storage & Night Delivery Rooms:		
Walls to top of sill (about 3'9" high) and partitions (bottom panel) & steel doors	Dark Blue	200
Other painted wall & partition surfaces	Light Blue	202
Work bench (except top), edge of shelves	Dark Blue	200
Doors, trim, track & springs, steel sash, waste baskets, slop sink exterior	Dark Blue	200
Tire racks, exterior of electric fixtures and stems, piping, shelves (edge dark blue)	To match background	
Shelving and edges in Storage Room	Dark Blue	200
lift	Maroon Enamel	601

EXTERIOR STRUCTURES AND EQUIPMENT:

		<u>1 coat unless otherwise stated</u>	
Light poles on island	Ext. Gloss White (2 coats)		106*
Except 6' high base or to reducer fitting	Dark Blue		200
Other floodlight & sign poles, reflectors & arms	Ext. Gloss White (2 coats)		106*
Except 6" base & all diamond-arrow frames and			
A-2717 Sign - cantilever part of pole,	Dark Blue		200
reflectors & arms	Dark Blue		200
Air hose standard	Maroon		601
Fill boxes, manholes, etc.(for Blue Sunoco)	(for Octane Concentrate) Half Maroon & Half Yellow		601/302
Grating, pit covers, etc. (Inside & outside)	Black		507
Face of concrete curbs	Black		507
Vent pipes, downspouts, etc.	To match background		
Fence & Billboard (if indicated): Wood	Ext. Gloss White (3 coats)		105
Metal	Black (2 coats)		507

* For fume resistance use #112. **3" Wood Valance Letters Dark Blue 200**
Face of Letters (After erection) Light Yellow 302

42. ELECTRICAL

Provide a complete electrical system for building, island lights, floodlights and battery charger, and as indicated. Provide for billboard as indicated. Provide conduit from panel board to 5' beyond building for extension and wiring under another section for sign, oil display, and pumps indicated, except when junction boxes for exterior electrical are shown these conduits shall then be connected to the junction boxes and wired. Adjust floodlights and spotlights at night to the satisfaction of the Engineer.

All work shall conform with the requirements of the National Electrical Code, the power company and local regulations. Upon completion of the work Contractor shall furnish Owner with a certificate of approval issued by the local inspection authority having jurisdiction.

Provide lamps (except for "T"-lights), interior fixtures as shown on drawings including fluorescent fixtures with "daylight" tubes and other electrical material required including the following:

Service Entrance: As indicated on Plot Plan, otherwise minimum 3-wire service entrance cable.

Service Drop: Underground when wires cross driveways, unless overhead is approved by Engineer. Terminate overhead on rear of building and maintain minimum of 14 foot clearance above finish grade.

Service Equipment: As indicated on Plot Plan, otherwise minimum 100 Amp. 3-wire 125-250 Volt enclosed switch or circuit breaker. Same capacity continued to panel board.

Panel Board: Surface mounted type multi-breaker for the number of circuits shown on Plot Plan and Building Plan.

Interior Branch Circuits: In rigid steel conduit or electrical metallic tubing and to run parallel and at right angles to floors and walls. Circuits to be concealed unless otherwise approved by Engineer.

Exterior Branch Circuits and Underground Service: Under concrete driveways galvanized or sheradized rigid steel conduit. Parkway or approved service cable permitted under bituminous driveways. Minimum conduit size 3/4". Underground conduit to be surrounded with clean clay, sand or loam and to be 12 inches from other underground pipes. **1" minimum to Advertising sign and to each end of ramp island.**

Wire and Cable: Insulation types "T" and "TW". Size wire, minimum #12, and keep within 3% voltage drop under maximum load.

Air Compressor Connection: Mount motor starting switch and connect to service outlet with armored cable if permitted or rigid steel conduit.

Switches and Receptacles: Minimum of 4'6" above floor in lubrication and wash bays.

Telephone: Run conduit with fittings to telephone location.

Furnace: Provide all electrical circuits and outlets, and make necessary connections to furnace and furnace equipment for its satisfactory operation.

Sign Signs: Provide circuits, outlets, breakers, etc., for signs on building, to be erected by others.

60. DISPENSING AND ADVERTISING EQUIPMENT

Present a separate bid for this work, which may be awarded as a separate contract. The General Construction Conditions of the Specifications (Form S-705) and the Plot Plan for the location, the Drawings referred to on the Plot Plan that detail the Dispensing and Advertising Equipment, the Purchase Order, and the requirements of local authorities establish the scope of work.

Furnish all necessary labor and material, except material indicated below as furnished by others, for the complete ready to use installation of the gasoline dispensing and slop oil systems, the diamond-arrow advertising signs, and the oil display rack receptacles on the pump islands. Work includes necessary permits, excavation, backfilling, setting tanks and pumps, assembling sign, concrete work, electrical, piping, and tests.

Material furnished by others for installation by this Contractor:

Pumps (without anchor bolts)

Tanks for gasoline and slop oil

~~Diamond-arrow sign~~ and anchor bolts **for Diamond-arrow sign**

Special fittings listed on drawings

Gasola pipe thread compound

Anchor bolts for light poles on pump islands.

Furnishing and installing these items is not part of this Section 60:

Lamps for signs and pumps

Floodlights on sign and others on plot plan

Fuel oil tank and piping.

Electrical work includes conduits from a point about five feet outside the building, and wiring from the panelboard to the signs, the pumps, and the oil display receptacles. Also included are the conduit and wires for the floodlights on the sign pulled to the floodlight location on the sign. **Each advertising sign to be serviced by a 1" minimum conduit.**

Pipe and conduit are to be reamed and cleaned and free of foreign matter on the inside. The threads are to be clean-cut. Backfill and material within 8" of conduits, pipes, and tanks, shall be clean, uniform, and free of sulphur or acid content and shall be sufficiently compacted to prevent any later settlement.

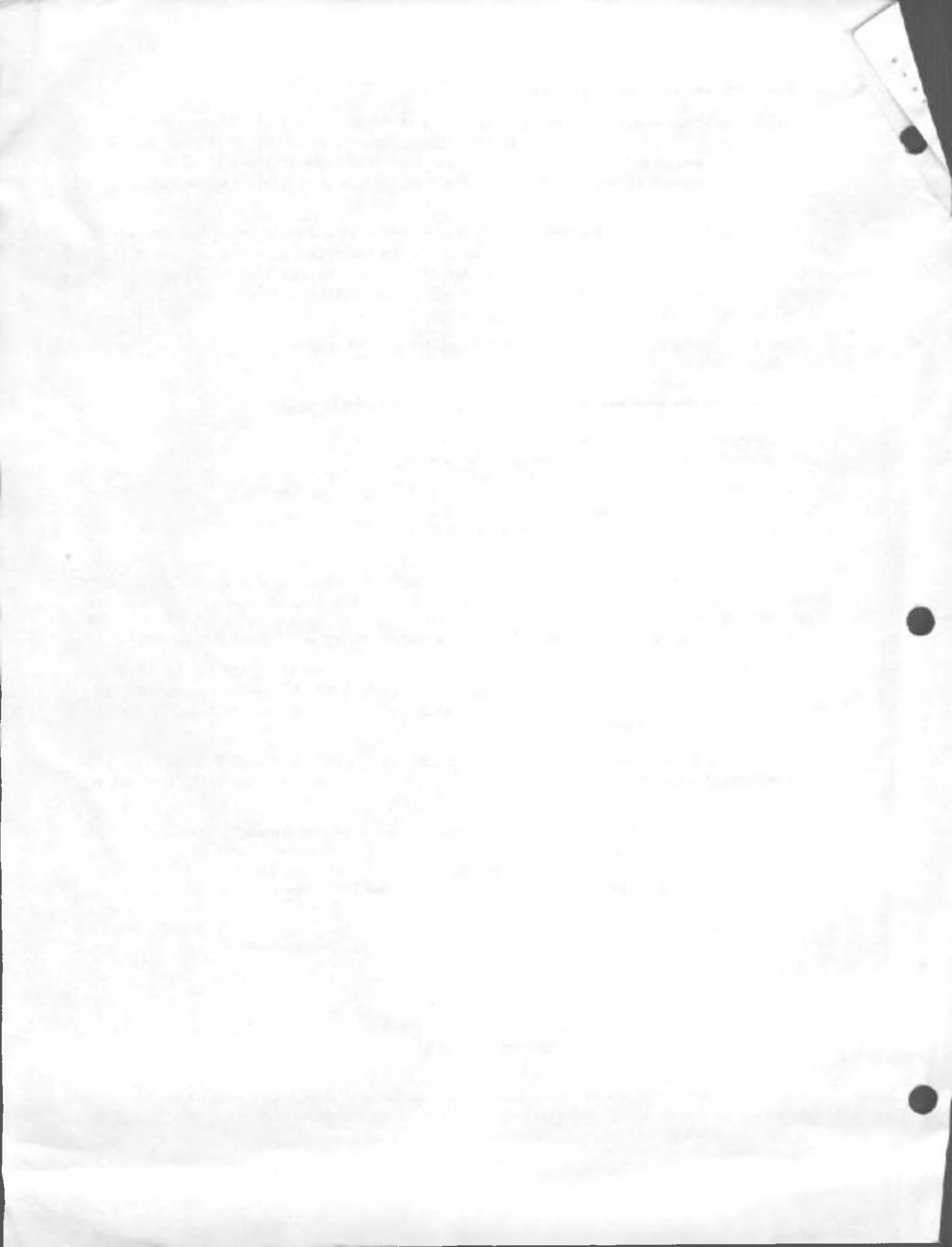
Concrete work includes the sign foundations, the bases under tanks when required, the pads around surface fittings, and the pump islands, but not the concrete driveway or mats around the islands.

~~Tests are required on the gasoline tanks before placing in the ground.~~ Tests are also required on the gasoline valve assembly and on the piping and tank assembly when installed. Tests shall be made in the presence of the Engineer and faulty work corrected and retested to his satisfaction before backfill is placed over piping. Apply ~~one~~ ^{two} pound (2) air pressure to the tanks and to the tanks and piping after piping is in place and carefully test each joint with a soap solution. Test valve assemblies after cleaning by filling with liquid and allowing to stand for 30 minutes. Also check extractor fittings for easy withdrawal and replacement.

This work is not complete until all permits or certificates the contractor obtains are delivered to the Engineer.

If ballast is needed to hold tanks in place during construction contractor will furnish the water necessary. Contractor will then remove all the water in time for the scheduled delivery of product into the tanks.

The guarantee for this work, as called for in the General Conditions, shall specifically include (a) the tightness and satisfactory operation of the gasoline system and (b) freedom from settlement of the backfill.



ADDENDA

Summary of Material Furnished by Owner (or others) to be Installed by Contractor

- (1) 2 frame contact auto hoists or lifts with adapter, muffler, wheel stops, dead man air control valve, oil valve, and oil for lifts
- (2) Compressor with starting switch
- (3) Fuel oil tank
- (4) Air signs, Ladies, Men, Rest Room signs
- (5) Floodlights, island lights, spotlights, light standards without lamps
- (6) Metal desk and chair
- (7) Computing pumps
- (8) Special fittings
- (9) Wood letters WASHING, LUBRICATION, ACCESSORIES

Material furnished and Installed by Contractor

- (1) Rheem or Everhot automatic gas water heater, storage capacity 50 gal., 50,000 BTU/hr. input rating. Recovery capacity 42.0 gal./hr./100° temperature rise. 6' above floor. Hot water heater to be equipped with Watts N40XL pressure and temperature relief valve and connected to plumbing with dielectric unions.
- (2) Shelving per detailed drawing #4-439
- (3) Toilet fixtures for each room
 - (a) Powdered soap dispenser - Luron standard model
 - (b) Paper towel dispenser - Scott #996 or equal
 - (c) Roll tissue holder - Scott #964 or equal
 - (d) Mirror - 18" x 24" x 1/4" polished plate, 1/2" chrome frame, recessed in tile. Ketcham #C919S or PPG
 - (e) White metal waste basket, 13" around x 14" high
 - (f) Chrome or alumilite hat & coat hook

Material Furnished by Owner or Others and Installed by Others

- (1) Porcelain enamel
- (2) Illuminated SUNOCO letters, Caduceus, Advertising sign Plastic WASHING and LUBRICATION letters