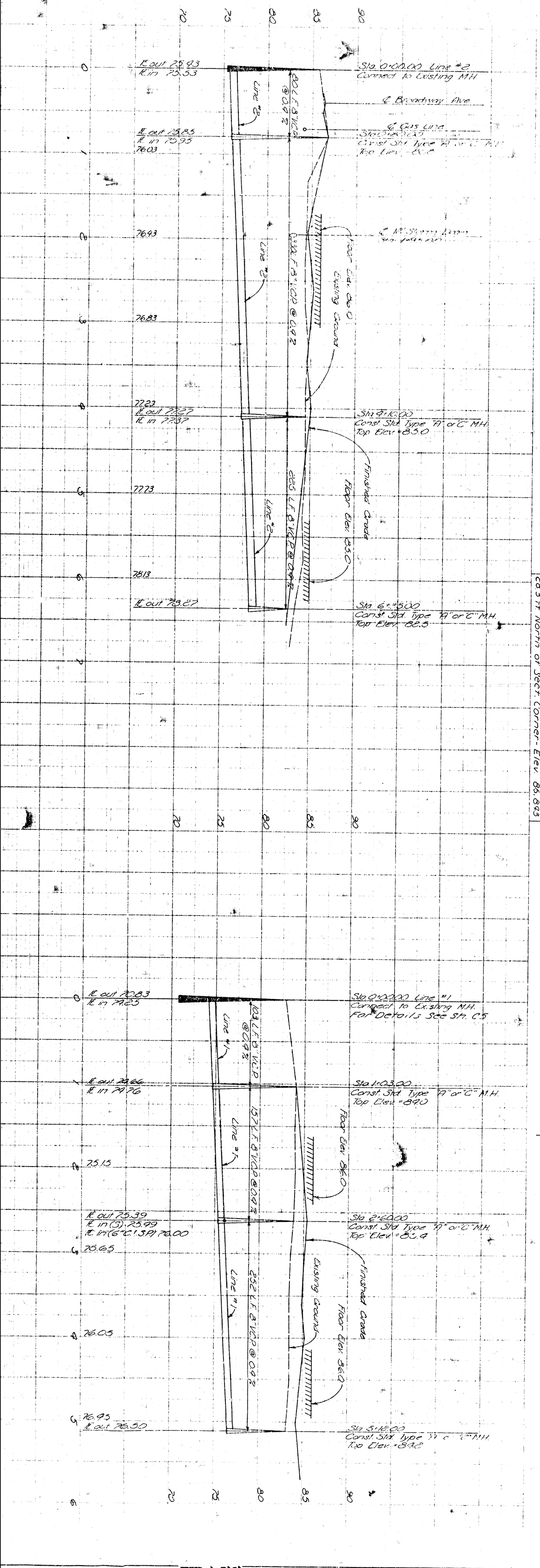
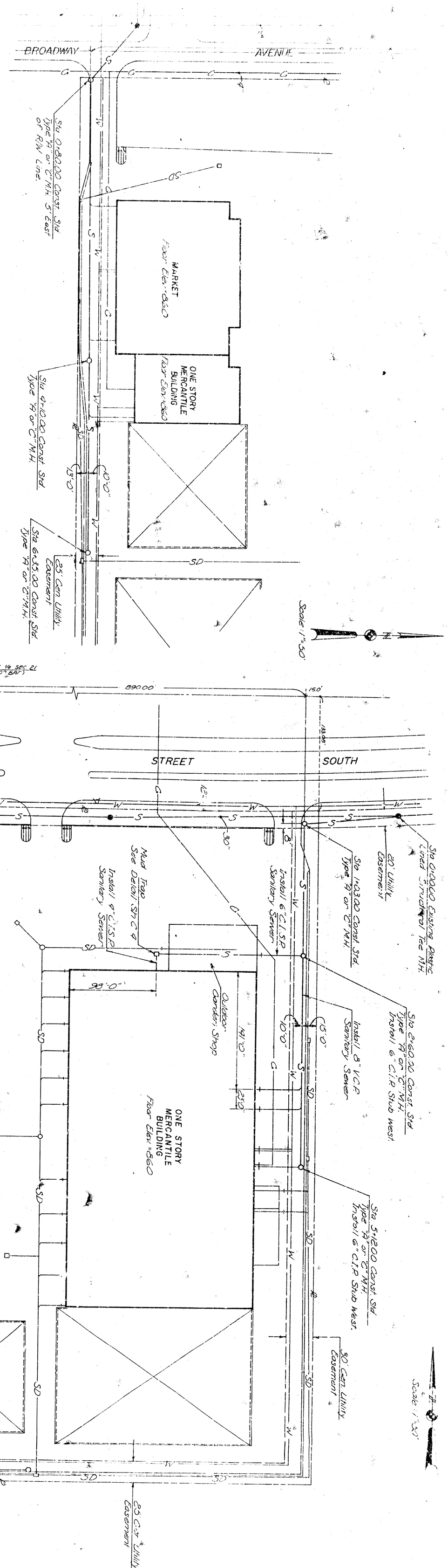


B.M. Line 19 City B.M. Disc., 28 Ft. East & 28.3 Ft. North of Sect. Corner - Elev. 86.693

Traffic must be carried thru construction on Broadway Avenue.



12-16-75

O.E.S.

NOTE: A.B.S. Composite Pipe can be used as an alternate.

Approved | Const.

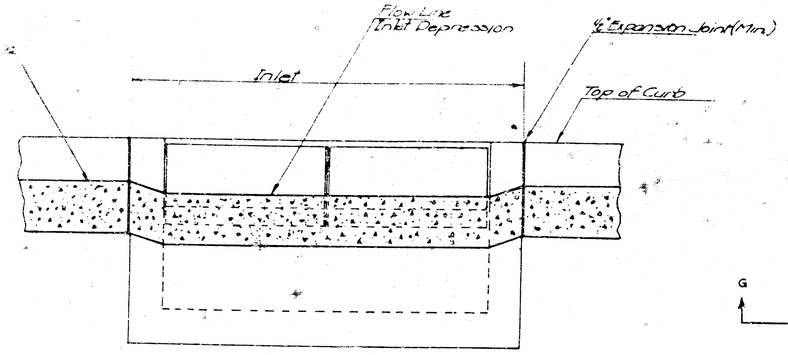
Bids | Do not scale prints use figured dimensions

Wah Yee Associates
Architects & Planners
26711 Northwestern Highway Suite 416
Southfield, Michigan 48075
Phone (313) 353-3990

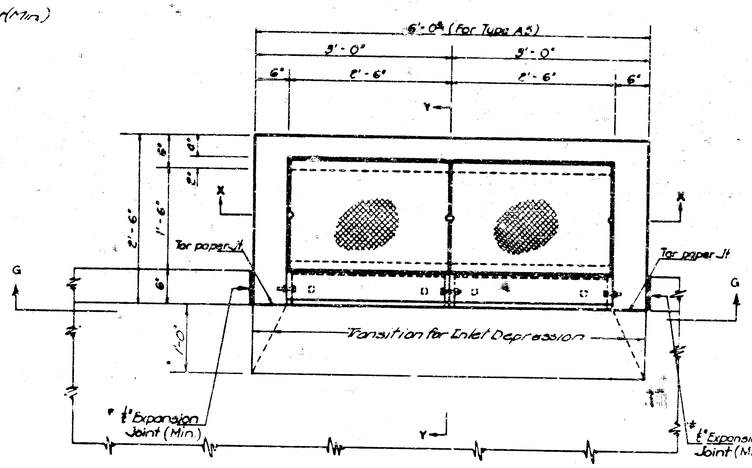
Project
ONE STORY MERCANTILE BUILDING
S.E.C. 47th ST. SOUTH & BROADWAY
WICHITA, KANSAS

Subject
SANITARY SEWER PLAN & PROFILE

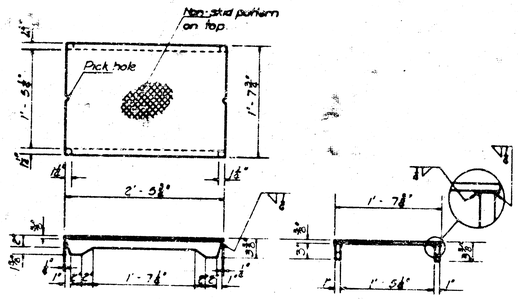
Owner
S.S. KRESGE



SECTION G-G



PLAN

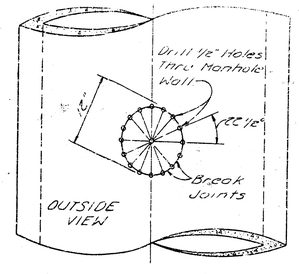


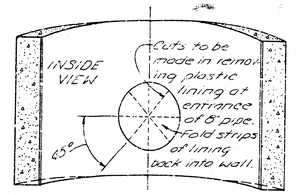
* STRUCTURAL STEEL COVER PLATE

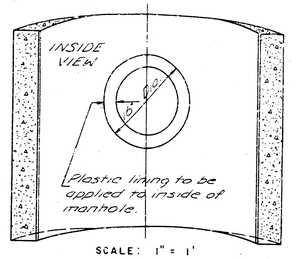
Weight 98 Lbs Each

** At the contractors option, the supports on the cover plate may be made of 2" Stock with the "feet" portions welded to the 2" steel bars. The weld shall be 1/4 full length, each side and ground smooth on the out side.

* Nonskid steel floor plate (Commercial grade), welded to steel (AS.T.M A-7, A-36, A-242 or A-441) bars.

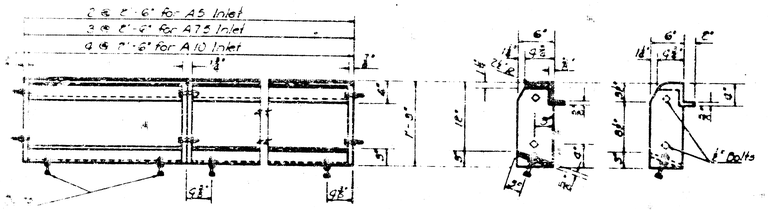






SCALE: 1" = 1'

CAUTION: Ventilate manhole before drilling holes into wall.

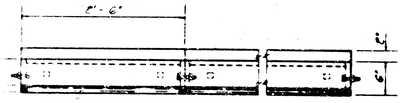


ELEVATION

TYPES A5-1, A7.5-1 & A10-1

SECTION END VIEW

TYPES A5-1 A7.5-1 & A10-1



PLAN

TYPES A5-1, A7.5-1, & A10-1

Weights 129 Lbs per 2'-6" section

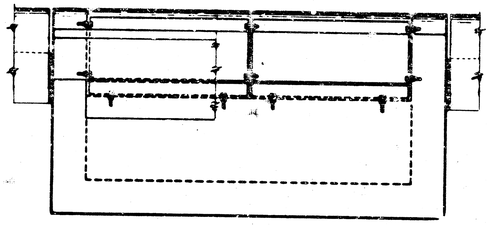
DETAILS OF CURB CASTING (IRON)

NOTE: All bolts and nuts shall be galvanized and meet the requirements of sub-section 1006.14 of the Standard Specifications.

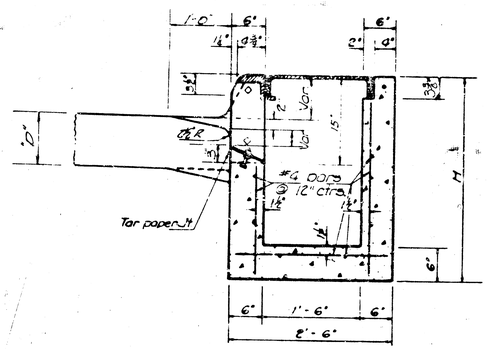
All weights of castings are calculated weights with no allowance for fillets, overruns, anchor bars and bolts.

Weights of cast iron as shown on this sheet are minimum. Heavier weights of cast iron may be used, but payment for cast iron shall be made on the weight as shown on this sheet.

Minor variations of design will be permitted on castings.



FRONT ELEVATION



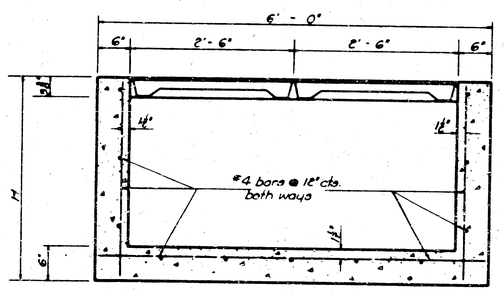
SECTION Y-Y

NOTE: See this sheet for shaping of depression at inlet. This work shall be paid for as "Concrete Pavement."

Floor of Inlet shall be shaped as shown in various "EXAMPLES" on Reinforced Concrete Manhole Standard No. 633.

Concrete used for shaping shall be unreinforced Class "A" concrete.

No addition in concrete quantities shall be made for shaping floor of Inlets.



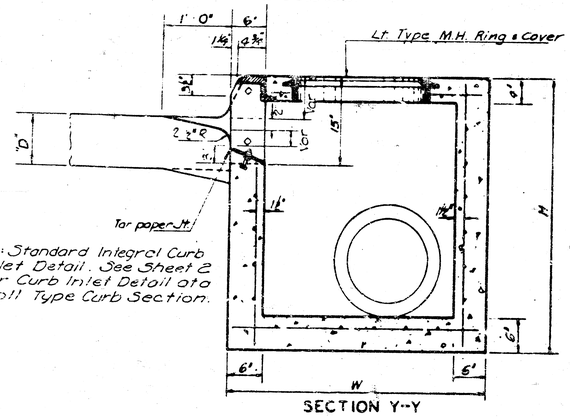
SECTION X-X

DETAIL - TIE IN

FOR PLASTIC LINED SAN. SEWER MANHOLE

NO SCALE

Note: All castings shall be gray iron and shall comply with A.S.T.M A-48 Class 25 S.

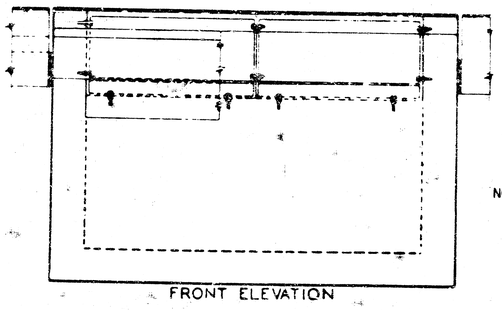


NOTE: Standard Integral Curb Inlet Detail. See Sheet 2 for Curb Inlet Detail at a Roll Type Curb Section.

SECTION Y-Y

NOTE: See standard sheet for Concrete Pavement Auxiliary Details-I, for shaping gutter approaching and leaving inlets. This shaping will be required at all type A inlets, unless otherwise noted on the plans. This work will be paid for as follows; where combined curb & gutter is used the entire length of the shaped gutter and the curb, together with the concrete under the gutter casting, shall be paid for as "Combined Curb & Gutter, Type I"; where concrete pavement and edge curb is used the shaped approaches and the edge curb, together with the concrete under the gutter casting, shall be paid for as "Concrete Pavement" and "6" Edge Curb.

See Standard Sheet No. 34. For Details of Manhole



FRONT ELEVATION

Note: Use Class A Concrete throughout.

Bevel all exposed edges with a ¾" triangular moulding.

Reinforcing bars shall be bent around pipe.

No deductions in concrete quantities shall be made for pipe openings.

At the contractor's option Class A Concrete (AE) may be used throughout, but payment shall be made as Cu. Yds. of Class A Concrete miscellaneous.

A small opening may be required in the back of the inlet to drain a low area, if ordered by the Engineer. Reinforcing bars will extend through the opening. No deduction in concrete quantities will be made for this opening.

When so ordered by the Engineer the top of the inlet shall be sloped slightly to approximately fit the ground line or other conditions.

All exposed cast iron surfaces shall be painted either in the shop or in the field with one coat of a zinc dust paint, followed by two field coats of aluminum paint.

Owner: U.S. KRESS

Subject: MISCELLANEOUS DETAILS

Project: ONE STORY MERCANTILE BUILDING S.E.C. 47th ST. SOUTH & BROADWAY WICHITA, KANSAS

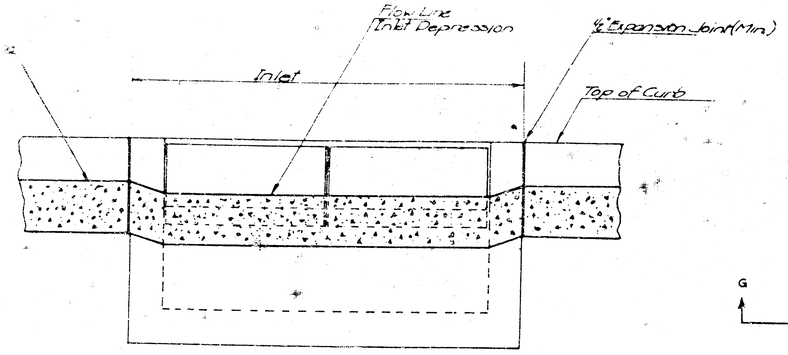
Approved

Date

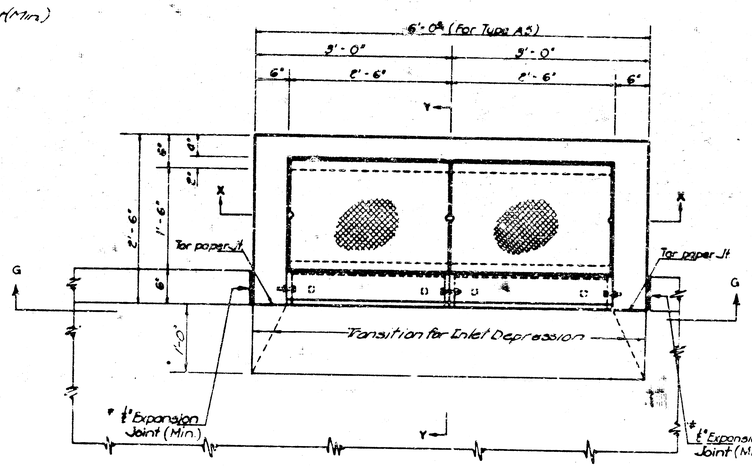
Cont.

Do not scale print. Use figured dimensions

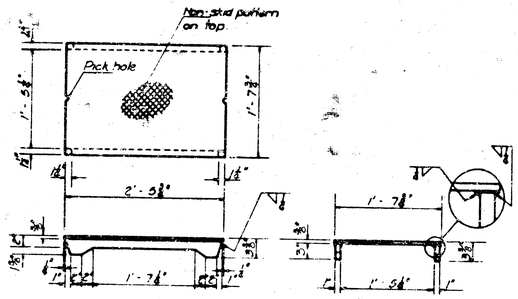
Weh Yee Associates Architects & Planners 2071 Northwestern Highway (48076) Southfield, Michigan Phone (313) 353-3990



SECTION G-G



PLAN

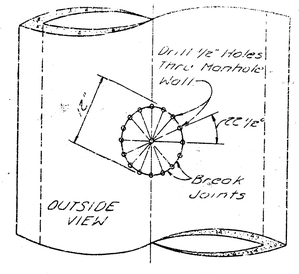


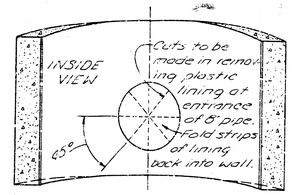
* STRUCTURAL STEEL COVER PLATE

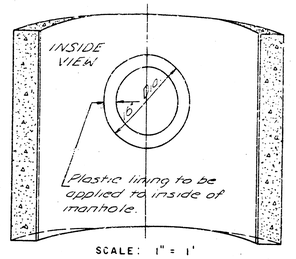
Weight 98 Lbs Each

** At the contractors option, the supports on the cover plate may be made of 2" Stock with the "feet" portions welded to the 2" steel bars. The weld shall be 1/4 full length, each side and ground smooth on the out side.

* Nonskid steel floor plate (Commercial grade), welded to steel (AS.T.M A-7, A-36, A-242 or A-441) bars.

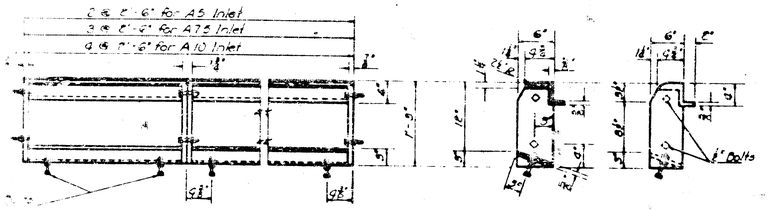






SCALE: 1" = 1'

CAUTION: Ventilate manhole before drilling holes into wall.

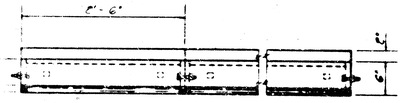


ELEVATION

TYPES A5-1, A7.5-1 & A10-1

SECTION END VIEW

TYPES A5-1 A7.5-1 & A10-1



PLAN

TYPES A5-1, A7.5-1, & A10-1

Weights 129 Lbs per 2'-6" section

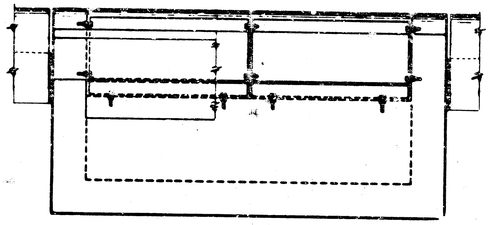
DETAILS OF CURB CASTING (IRON)

NOTE: All bolts and nuts shall be galvanized and meet the requirements of sub-section 1006.14 of the Standard Specifications.

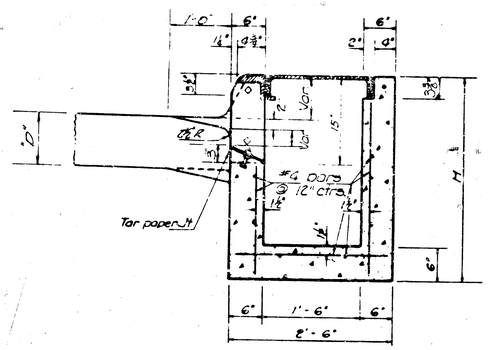
All weights of castings are calculated weights with no allowance for fillets, overruns, anchor bars and bolts.

Weights of cast iron as shown on this sheet are minimum. Heavier weights of cast iron may be used, but payment for cast iron shall be made on the weight as shown on this sheet.

Minor variations of design will be permitted on castings.



FRONT ELEVATION



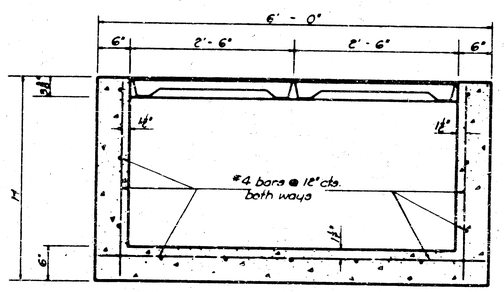
SECTION Y-Y

NOTE: See this sheet for shaping of depression at inlet. This work shall be paid for as "Concrete Pavement."

Floor of Inlet shall be shaped as shown in various "EXAMPLES" on Reinforced Concrete Manhole Standard No. 633.

Concrete used for shaping shall be unreinforced Class "A" concrete.

No addition in concrete quantities shall be made for shaping floor of Inlets.



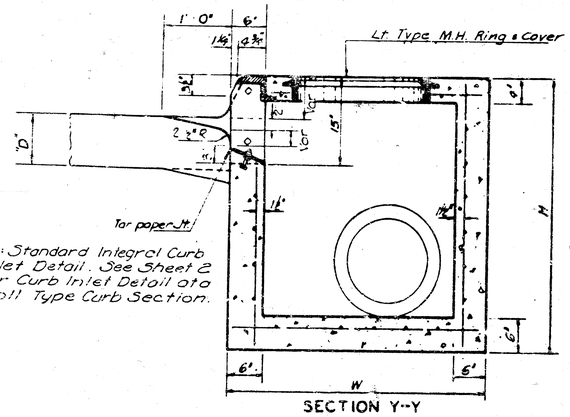
SECTION X-X

DETAIL - TIE IN

FOR PLASTIC LINED SAN. SEWER MANHOLE

NO SCALE

Note: All castings shall be gray iron and shall comply with A.S.T.M A-48 Class 25 S.

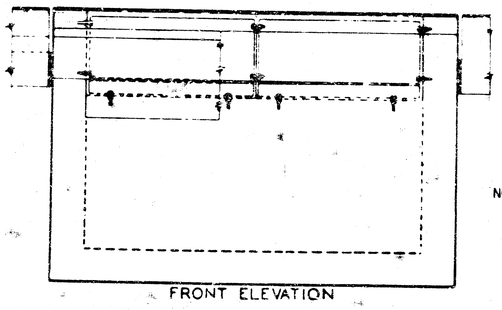


NOTE: Standard Integral Curb Inlet Detail. See Sheet 2 for Curb Inlet Detail at a Roll Type Curb Section.

SECTION Y-Y

NOTE: See standard sheet for Concrete Pavement Auxiliary Details-I, for shaping gutter approaching and leaving inlets. This shaping will be required at all type A inlets, unless otherwise noted on the plans. This work will be paid for as follows; where combined curb & gutter is used the entire length of the shaped gutter and the curb, together with the concrete under the gutter casting, shall be paid for as "Combined Curb & Gutter, Type I"; where concrete pavement and edge curb is used the shaped approaches and the edge curb, together with the concrete under the gutter casting, shall be paid for as "Concrete Pavement" and "6" Edge Curb.

See Standard Sheet No. 34. For Details of Manhole



FRONT ELEVATION

Note: Use Class A Concrete throughout.

Bevel all exposed edges with a ¾" triangular moulding.

Reinforcing bars shall be bent around pipe.

No deductions in concrete quantities shall be made for pipe openings.

At the contractor's option Class A Concrete (AE) may be used throughout, but payment shall be made as Cu. Yds. of Class A Concrete miscellaneous.

A small opening may be required in the back of the inlet to drain a low area, if ordered by the Engineer. Reinforcing bars will extend through the opening. No deduction in concrete quantities will be made for this opening.

When so ordered by the Engineer the top of the inlet shall be sloped slightly to approximately fit the ground line or other conditions.

All exposed cast iron surfaces shall be painted either in the shop or in the field with one coat of a zinc dust paint, followed by two field coats of aluminum paint.

Owner: U.S. KRESS

Subject: MISCELLANEOUS DETAILS

Project: ONE STORY MERCANTILE BUILDING S.E.C. 47th ST. SOUTH & BROADWAY WICHITA, KANSAS

Approved

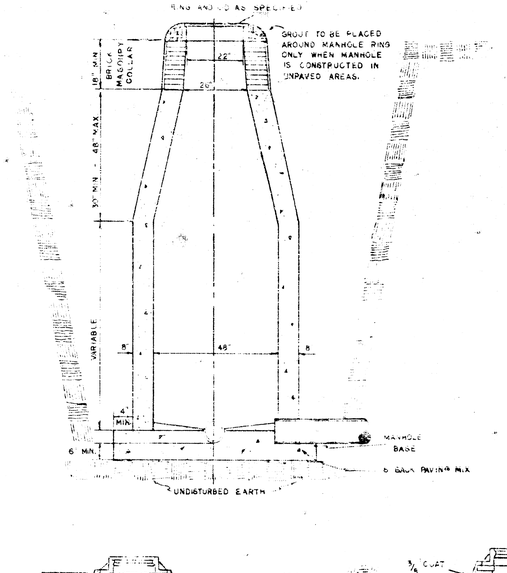
Date

Cont.

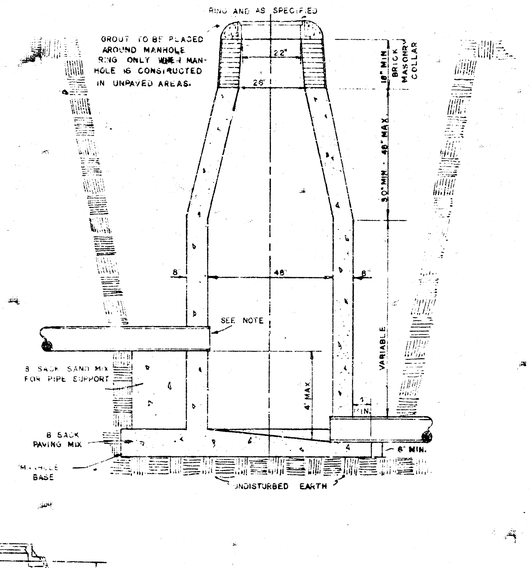
Do not scale print. Use figured dimensions

Weh Yee Associates Architects & Planners 2071 Northwestern Highway (48076) Southfield, Michigan Phone (313) 353-3990

STANDARD MANHOLE, TYPE "C"



DROP MANHOLE, TYPE "C"



GENERAL NOTES

MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD.

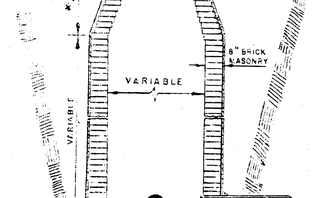
STANDARD MANHOLES TYPE "C" AND STANDARD DROP MANHOLES TYPE "C" SHALL BE BID AS STANDARD MANHOLES FOR THE TYPE AND DIAMETER INDICATED.

OUTSIDE DROP MANHOLES TYPE "C" SHALL BE BID AS STANDARD OUTSIDE DROP MANHOLES FOR THE TYPE AND DIAMETER INDICATED. ALL MANHOLE DIAMETERS WILL BE 4FT UNLESS INDICATED OTHERWISE. MANHOLES WITH PIPE SIZES LARGER THAN 24" SHALL BE 5FT. DIAMETER.

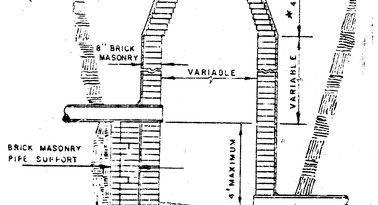
THE FLOORS OF ALL MANHOLES SHALL BE SHAPED TO INCREASE HYDRAULIC EFFICIENCY USING 8 SACK SAND MIX CONCRETE.

CAST IN PLACE CIRCULAR CONCRETE MANHOLES ARE TO BE CONSTRUCTED ONLY ON SEWERS NOT SUBJECT TO DETERIATION OF CONCRETE DUE TO FORMATION OF HYDROGEN SULFIDE GAS AND IN LOCATIONS WHERE IT IS OBVIOUS THAT ANY ADJUSTMENT OF THE MANHOLE TOP ELEVATION WHICH MAY BE NECESSARY WILL NOT REQUIRE MODIFICATION OF THE CONCRETE BARREL.

NOTE: OPENING FOR INLET PIPE CUT IN MANHOLE WALL AND PIPE GROUTED IN PLACE WITH NON-SHRINKING GROUT. EXTERIOR OF COMPLETED CONNECTION TO BE SEALED WITH APPROVED COATING.



STANDARD MANHOLE TYPE "A"



DROP MANHOLE TYPE "A"

MANHOLES

THE CONCRETE USED FOR MORTAR IN MANHOLES SHALL CONTAIN 8 SACKS OF CEMENT PER CUBIC YARD.

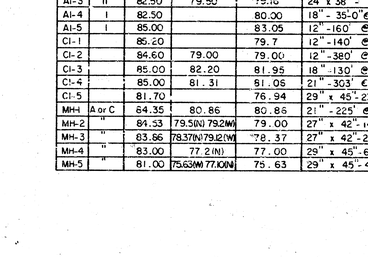
STANDARD MANHOLES AND DROP MANHOLES, REGARDLESS OF DIAMETER, SHALL BE BID AT ONE PRICE AS STANDARD MANHOLES.

SINGLE OR DOUBLE OUTSIDE DROP MANHOLES SHALL BE BID AT ONE PRICE AS OUTSIDE DROP MANHOLES.

ALL MANHOLES WITH PIPES LARGER THAN 24" SHALL BE 5' DIAMETER UNLESS OTHERWISE SPECIFIED ON PLAN, ALL M.H.'S WITH PIPES 24" & SMALLER SHALL BE 4' DIA.

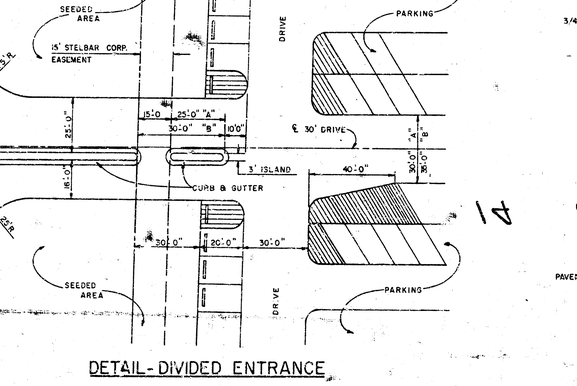


SECTIONAL ELEVATION—INVERT



PLAN

AREA INLET SCHEDULE	
TYPE I	INSIDE WIDTH - 1'-11"
TYPE II	INSIDE WIDTH - 3'-10 3/4"
TYPE III	INSIDE WIDTH - 5'-10 1/2"



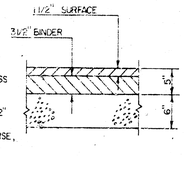
SECTION

AREA INLET DETAIL

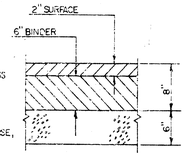
CONC. PAVEMENT (SEE SHEET NO. 2 FOR DETAILS)
6" PORTLAND CEMENT CONC. PAVEMENT
SUBGRADE - SIX(6) INCHES COMPACTED THICKNESS OF PORTLAND CEMENT TREATED SUBGRADE.

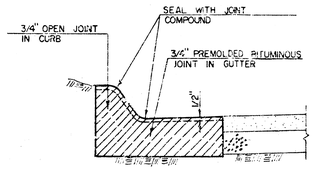


PARKING LOT PAVEMENT
SUBGRADE - SIX (6) INCHES COMPACTED THICKNESS OF PORTLAND CEMENT TREATED SUBGRADE.
BASE - CRUSHED AGGREGATE BASE COURSE, 3 1/2" COMPACTED THICKNESS.
SURFACE - BITUMINOUS CONCRETE SURFACE COURSE, 1 1/2" COMPACTED THICKNESS.

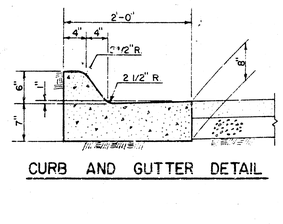


SERVICE DRIVES
SUBGRADE - SIX (6) INCHES COMPACTED THICKNESS OF PORTLAND CEMENT TREATED SUBGRADE.
BASE - CRUSHED AGREGATE BASE COURSE, 6" COMPACTED THICKNESS.
SURFACE - BITUMINOUS CONCRETE SURFACE COURSE, 2" COMPACTED THICKNESS.



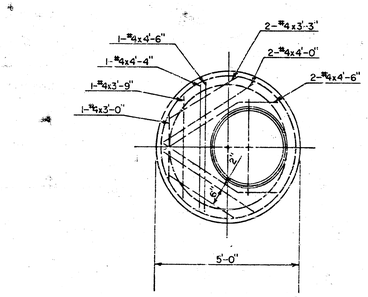


EXPANSION JOINT DETAIL

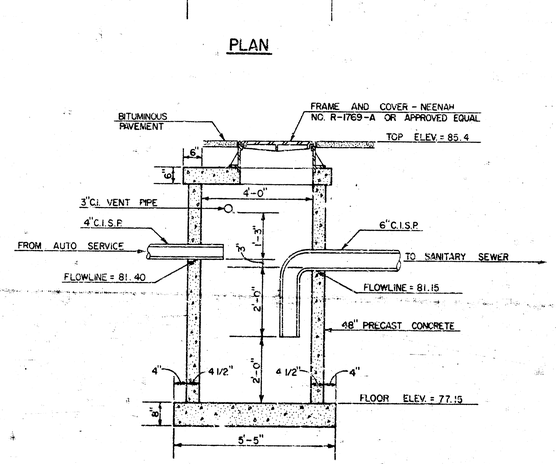


CURB AND GUTTER DETAIL

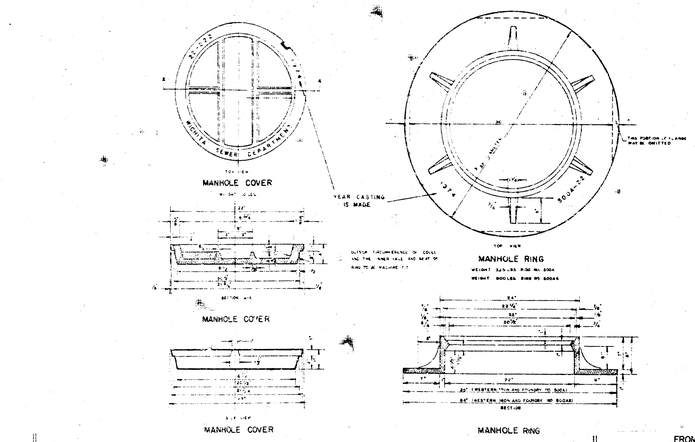
STORM SEWER SCHEDULE						
STR. NO.	TYPE	TOP ELEV.	FLOWLINE IN	FLOWLINE OUT	PIPE SIZE LENGTH & GRADE	PIPE CLASS & MATERIAL
AI-1	II	83.35		81.1	18" - 40.0' @ .6%	III R.C.P.
AI-2	III	82.85		80.1	24" x 38" - 200' @ .3%	III R.H.E.C.P.
AI-3	II	82.50	79.50	79.16	24" x 38" - 73' @ .375%	III R.H.E.C.P.
AI-4	I	82.50		80.00	18" - 35-0" @ 25%	"
AI-5	I	85.00		83.05	12" -160' @ 5%	"
CI-1		86.20		79.7	12" -140' @ 5%	"
CI-2		84.60	79.00	79.00	12" -380' @ 5%	"
CI-3		85.00	82.20	81.95	18" -130' @ 5%	"
CI-4		85.00	81.31	81.05	21" -303' @ 5%	"
CI-5		81.70		76.94	29" x 45" -239' @ 45%	III R.H.E.C.P.
MH-1	A or C	84.35	80.86	80.86	21" -225' @ 6%	III R.C.P.
MH-2	"	84.53	79.51(N) 79.2(W)	79.00	27" x 42" -140' @ 45%	III R.H.E.C.P.
MH-3	"	83.86	78.37(N) 79.2(W)	78.37	27" x 42" -263' @ 45%	"
MH-4	"	83.00	77.2(N)	77.00	29" x 45" -668' @ 45%	"
MH-5	"	81.00	75.63(W) 77.1(N)	75.63	29" x 45" -45' @ 45%	"

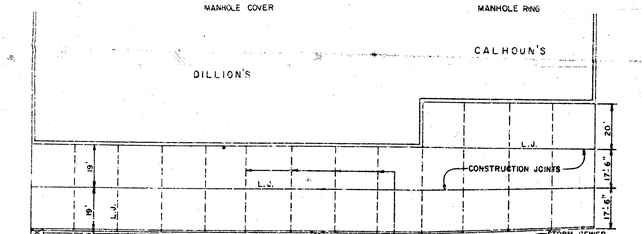


PLAN

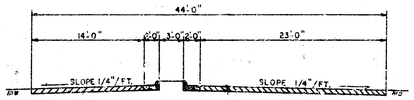


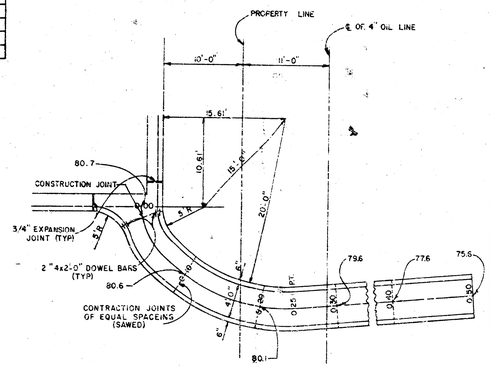
SECTION



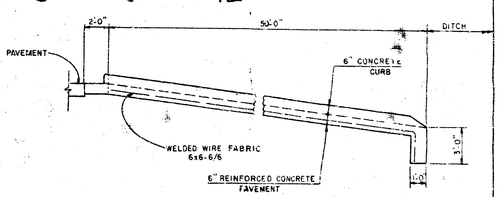


DETAIL - DIVIDED ENTRANCE





DETAIL - DRAINAGE FLUME



PROFILE - DRAINAGE FLUME

14 8 4 13

Owner
Project
ONE STORY MERCANTILE BUILDING
Adject
Wah Yee Associates Architects & Planners
Cont
Approved