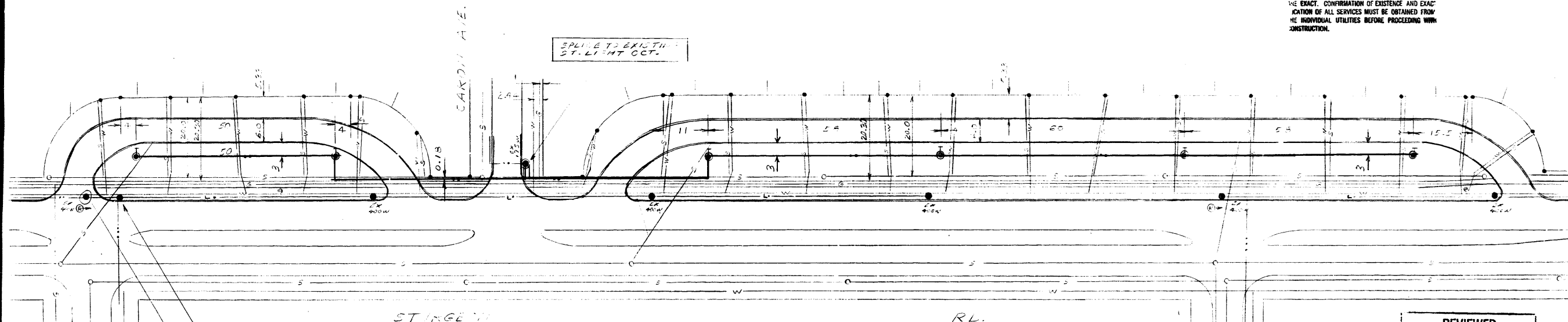


APPENDIX C – EXISTING CONDITIONS



LOCATIONS OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATION IS THE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.



RELICATE 1-4300 H.V. LUM. SIGNETAP NORTH

SPLICE TO EXISTING ST. LIGHT OCT.

- Legend**
- W WATER MAIN
 - S SEWER MAIN
 - G GAS MAIN
 - TD MTS DUCT SYSTEM
 - T MTS BURIED SYSTEM
 - HD MANITOBA HYDRO DUCT SYSTEM
 - H MANITOBA HYDRO BURIED CABLE-EXISTING
 - 70 WATT H.P.S. LUMINAIRE UNLESS NOTED OTHERWISE
 - LARGE CIRCLE INDICATES PE CELL MOUNTED ON LUMINAIRE
 - PT PT INDICATES POST TOP LUMINAIRE POLE
 - L STREET LIGHT FEEDER (#4 ALUM, C/N)
 - LL STREET LIGHT FEEDERS (2-#4 ALUM, C/N)
 - LL* STREET LIGHT FEEDER (1/0 ALUM, TPX)
 - SECONDARY 120V (#4 ALUM, C/N)
 - ⊞ RELAY
 - 2" PLASTIC PIPE

NOTE:
To be constructed in accordance with Manitoba Hydro Underground Street Lighting Practice latest revision. Dimension indicates centre line of trench. Base to be installed from property side of curb unless noted otherwise. S/L standard to be minimum 5'-0" from driveway.

| LOCATION | TYPE | AV. F.C. | U.R. AV. TO MIN. | MAX SPACING |
|----------|-------------|----------|------------------|-------------|
| | 70 W H.P.S. | C-4 | E-1 | 50 |
| | | | | |
| | | | | |

REGIONAL STREETS BRANCH
TO BE NOTIFIED 24 HOURS
PRIOR TO WORK COMMENCING
PHONE 946-0257
NOTIFY *E. Quinlan*

| REVIEWED FOR CONSTRUCTION | | |
|--|---------|--------------------|
| DEPARTMENT | DATE | INTLS |
| UNDERGROUND STRUCTURES | 2/20/28 | <i>[Signature]</i> |
| REGIONAL STREETS DISTRICT # 2 | | |
| LOCATION APPROVED UNDERGROUND STRUCTURES | | |
| <i>[Signature]</i> | | |
| DATE 24/12/28 | | |

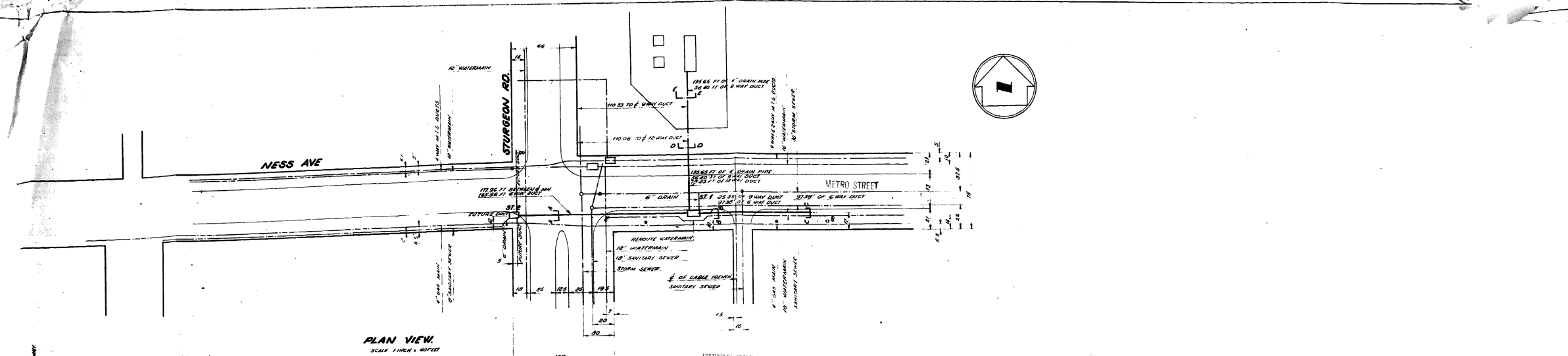
INSTALL 6-70 W H.P.S. LUMINAIRES ON 25 FT. DIRECT BURIED DUCTS

THE CITY OF WINNIPEG
STREETS AND TRANSPORTATION DEPARTMENT
AUTHORIZED FOR CONSTRUCTION
[Signature] DATE 24/12/28
MANAGER OF STREETS & TRAFFIC

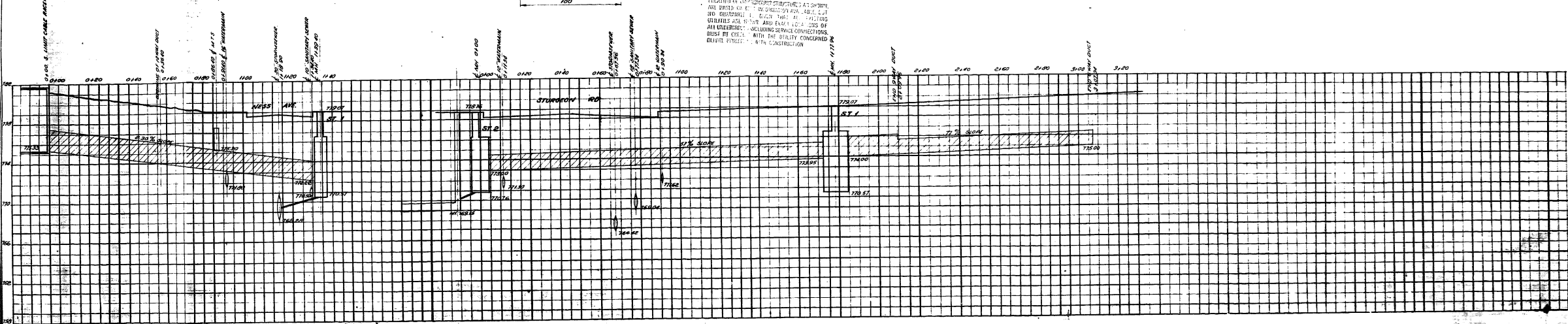
24-306

| NOTED | NO | DATE | REVISIONS | | BY | CHKD | APP |
|----------------|----|------|-----------|------|----|------|-----|
| | | | NO | DATE | | | |
| | | | | | | | |
| MANITOBA HYDRO | | | | | | | |
| CIVIL | | | | | | | |
| GEOTECHNICAL | | | | | | | |
| ELECTRICAL | | | | | | | |
| MECHANICAL | | | | | | | |
| DISTRIBUTION | | | | | | | |
| PROJECT | | | | | | | |
| MANAGER | | | | | | | |
| SCALE | | | | | | | |
| DATE | | | | | | | |
| | | | | | | | |

WPA 84 12 03



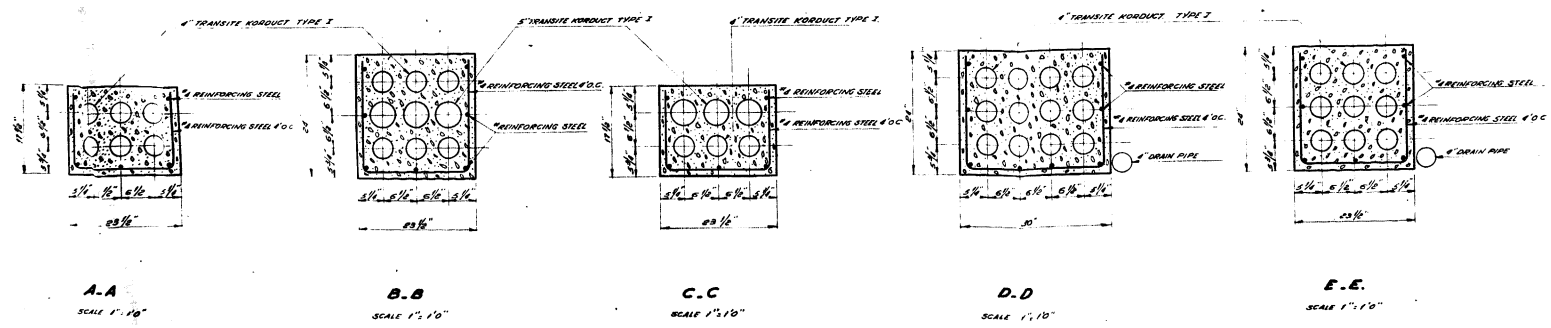
PLAN VIEW
SCALE 1" = 40' FT



PROFILE ALONG DUCT LINE

SCALE HORIZONTAL 1" = 40' FT
VERTICAL 1" = 4' FT

NOTE:
CONCRETE TO BE EXPOSED REINFORCING TO BE 3/4" OR LESS
REINFORCING TO BE PLACED 8" FROM OUTSIDE FACE OF DUCT
ENGINEERING SECTION SHALL BE ADVISED OF ANY CHANGES TO THE PLAN
DURING NEARLY 70% OF PROGRESS AT THE 1/4" CORNER OF
STURGEON RD AND NESS AVE. ELEV 754.81
SEWER CONTRACTOR TO INSTALL BACKUP VALVE IN DRAIN FROM HWY
TO STREET.



A-A SCALE 1" = 10"
B-B SCALE 1" = 10"
C-C SCALE 1" = 10"
D-D SCALE 1" = 10"
E-E SCALE 1" = 10"

LOCATION APPROVED
UNDERGROUND STRUCTURES COMMITTEE
7-9-65

APPROVED FOR CONSTRUCTION
STREETS AND TRAFFIC ENGINEER

217-36

MANITOBA HYDRO
ENGINEERING DIVISION
PLAN & PROFILE OF DUCT SYSTEM
ON NESS AVE AT STURGEON RD
CITY OF ST. JAMES
DATE: 24 JUN 65
DRAWN: J. GENTON
CHECKED: 1981
3063 E. 200T

3063-D-6982

REV. 01 00

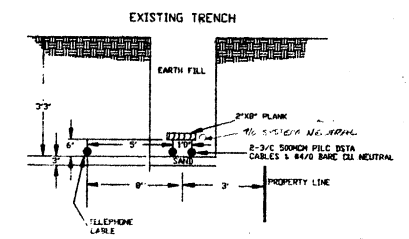
3063-D-6982

SHT. REV. 01 00

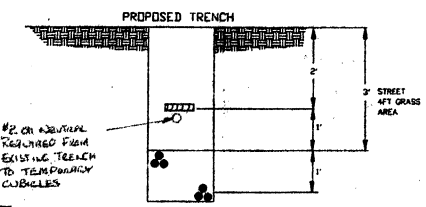


- NOTE:
- 1) EXCESSIVE BENDING OR HANDLING THE PILC SHOULD BE AVOIDED AS MUCH AS POSSIBLE.
 - 2) THE 4/0 NEUTRAL IN EXISTING TRENCH MUST BE KEPT IN SERVICE.
 - 3) NOTE CITY OF WINNIPEG PERMIT TO BE ASSESSED ON 445 FT OF TRENCH ONLY (OH TO BACKFILL, TAMP AND SOD TRENCH AREA).
 - 4) PART OF ST. JAMES PLAN #20.

THE CITY OF WINNIPEG
STREETS AND TRANSPORTATION DEPARTMENT
AUTHORIZED FOR CONSTRUCTION
ON REGIONAL STREETS
Winnipeg
STREETS & BRIDGES ENGINEER 1991-12-20 DATE



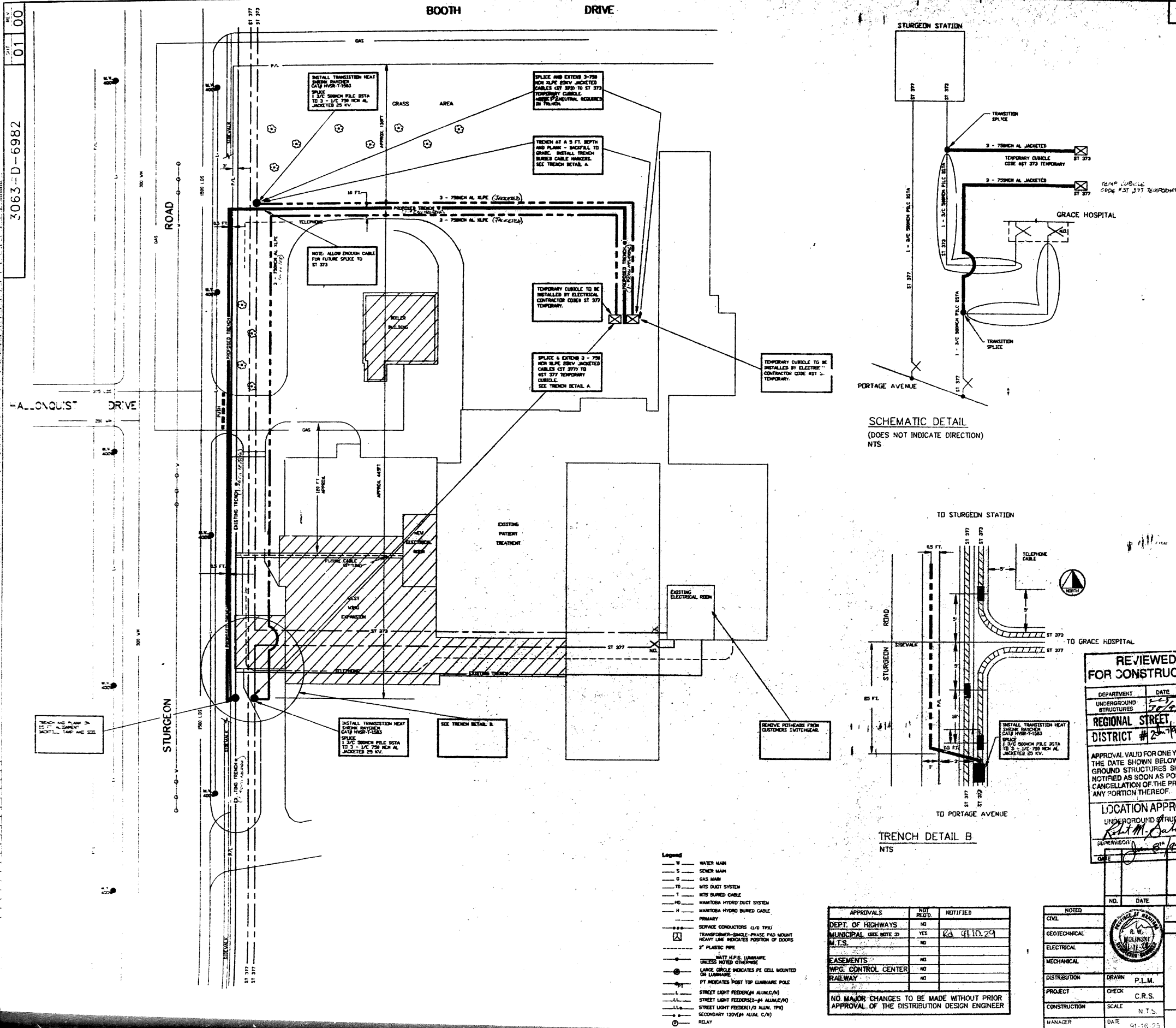
EXISTING TRENCH DETAIL
NTS



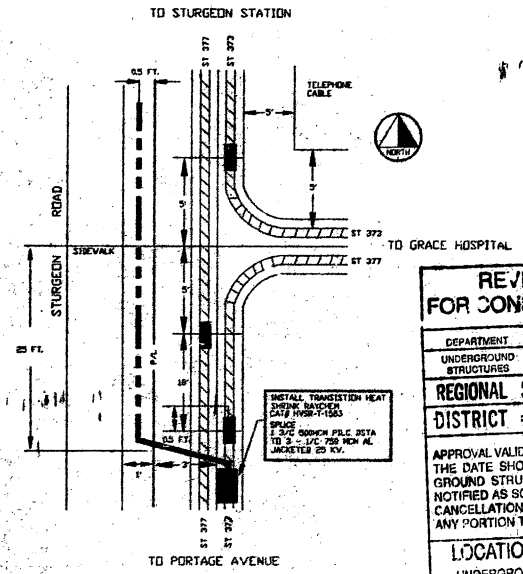
TRENCH DETAIL A
NTS

2H-362

LOCATIONS OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.



SCHEMATIC DETAIL
(DOES NOT INDICATE DIRECTION)
NTS



TRENCH DETAIL B
NTS

REVIEWED FOR CONSTRUCTION
DEPARTMENT DATE N.T.S.
UNDERGROUND STRUCTURES
REGIONAL STREET DISTRICT # 247
APPROVAL VALID FOR ONE YEAR FROM THE DATE SHOWN BELOW. UNDERGROUND STRUCTURES SHOULD BE NOTIFIED AS SOON AS POSSIBLE OF CANCELLATION OF THE PROJECT OR ANY PORTION THEREOF.
LOCATION APPROVED
UNDERGROUND STRUCTURES
SUPERVISOR
DATE

- Legend
- W WATER MAIN
 - S SEWER MAIN
 - G GAS MAIN
 - TO MTS DUCT SYSTEM
 - T MTS BURIED CABLE
 - M MANTOBA HYDRO DUCT SYSTEM
 - H MANTOBA HYDRO BURIED CABLE
 - PRIMARY
 - SERVICE CONDUCTORS (1/0 THRU)
 - TRANSFORMER-SINGLE-PHASE PAD MOUNT
 - HEAVY LINE INDICATES POSITION OF DOORS
 - 2" PLASTIC PIPE
 - UTILITY H.P.S. LUMINAIRE UNLESS NOTED OTHERWISE
 - LARGE CIRCLE INDICATES PE CELL MOUNTED ON LUMINAIRE
 - PT INDICATES POST TOP LUMINAIRE POLE
 - STREET LIGHT FEEDER(4 ALUM./A)
 - STREET LIGHT FEEDER(2-4 ALUM./A)
 - STREET LIGHT FEEDER(1/0 ALUM. THRU)
 - SECONDARY 120V(4 ALUM. C/A)
 - RELAY

| APPROVALS | NOT RECD. | NOTIFIED |
|------------------------|-----------|------------|
| DEPT. OF HIGHWAYS | NO | |
| MUNICIPAL (SEE NOTE 2) | YES | KA 4.10.29 |
| M.T.S. | NO | |
| EASEMENTS | NO | |
| TRPG. CONTROL CENTER | NO | |
| RAILWAY | NO | |

NO MAJOR CHANGES TO BE MADE WITHOUT PRIOR APPROVAL OF THE DISTRIBUTION DESIGN ENGINEER

| NOTED | NO. | DATE | REVISIONS | BY | CHKD. | APP. |
|--------------|-------|----------|-----------|----|-------|------|
| CIVIL | | | | | | |
| GEOTECHNICAL | | | | | | |
| ELECTRICAL | | | | | | |
| MECHANICAL | | | | | | |
| DISTRIBUTION | DRAWN | P.L.M. | | | | |
| PROJECT | CHECK | C.R.S. | | | | |
| CONSTRUCTION | SCALE | N.T.S. | | | | |
| MANAGER | DATE | 91-16-25 | | | | |

MANITOBA HYDRO
ENGINEERING DEPARTMENT
CENTRAL REGION MWO#21733
ST. JAMES DISTRICT
PROPOSED TEMPORARY SERVICE
TO GRACE HOSPITAL
3063-D-6982

Notes:

| REQUIREMENT | YES | NO |
|--|-----|----|
| MANITоба HYDRO - MANITоба TELEPHONE SYSTEM JOINT USE | | |
| REQUIREMENT | | |
| MANITоба TELEPHONE SYSTEM JOINT USE | | |
| DESIGNED FOR JOINT USE | | |
| APPROVED BY MTS | | |

| REQUIREMENT | YES | NO |
|--|-----|----|
| MANITоба HYDRO - MANITоба TELEPHONE SYSTEM JOINT USE | | |
| REQUIREMENT | | |
| MANITоба TELEPHONE SYSTEM JOINT USE | | |
| DESIGNED FOR JOINT USE | | |
| APPROVED BY MTS | | |

BASEMENTS NOT SECURED - CONTACT ENGINEERING BEFORE CONSTRUCTION

SEE SHEET 1 FOR SCHEMATIC DETAILS

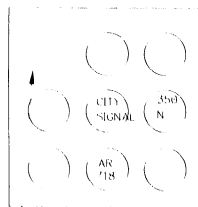
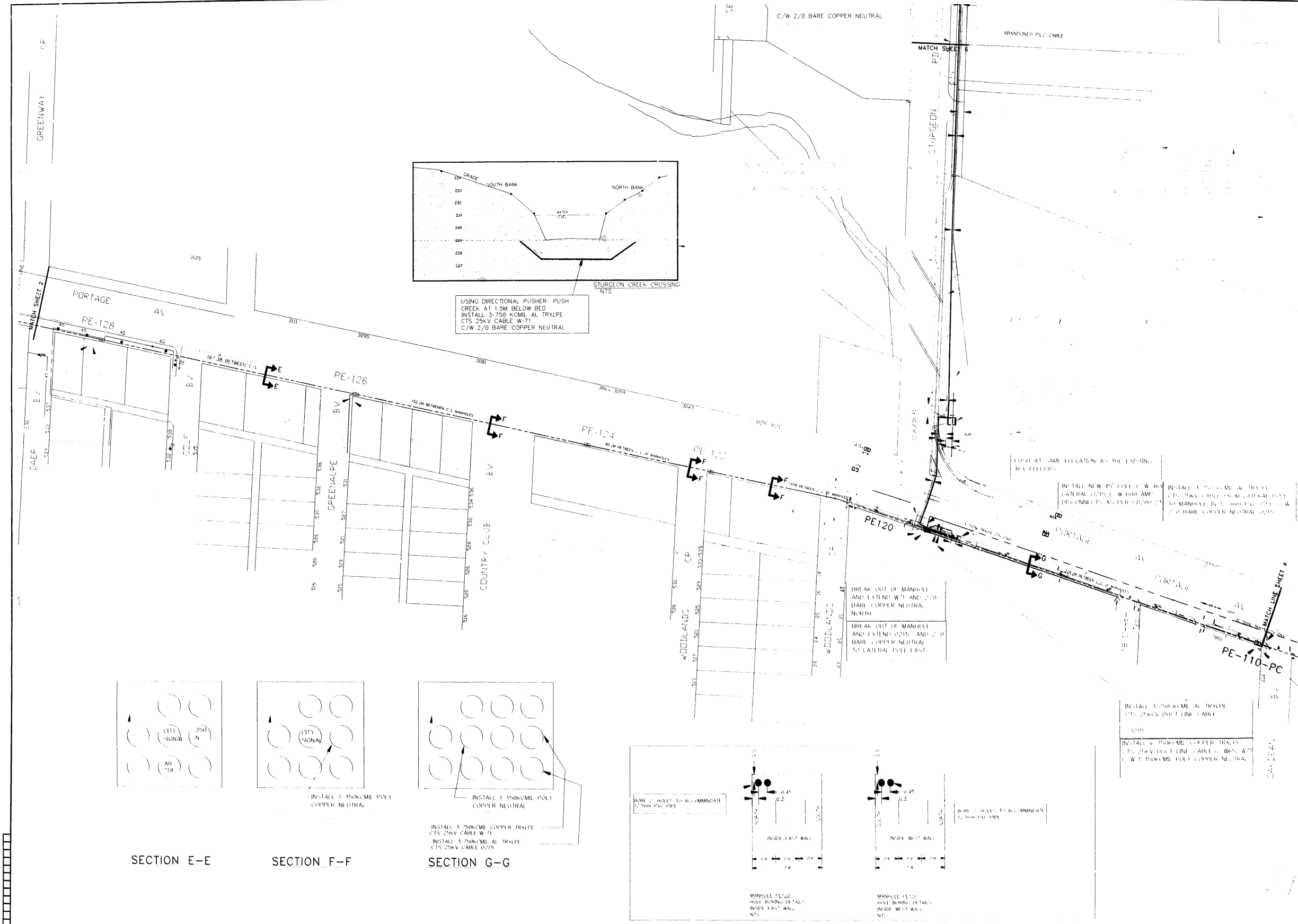
REGIONAL STREET FOR REVIEWED FOR CONSTRUCTION

| REVISION | DATE | BY | APP'D |
|----------|------|----|-------|
| 1 | | | |
| 2 | | | |

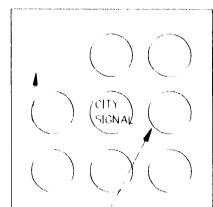
APPROVED FOR CONSTRUCTION

Robert J. [Signature]

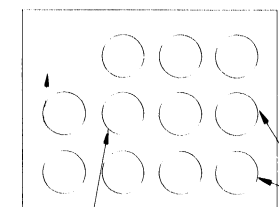
SEE SHEET 1 FOR SCHEMATIC DETAILS



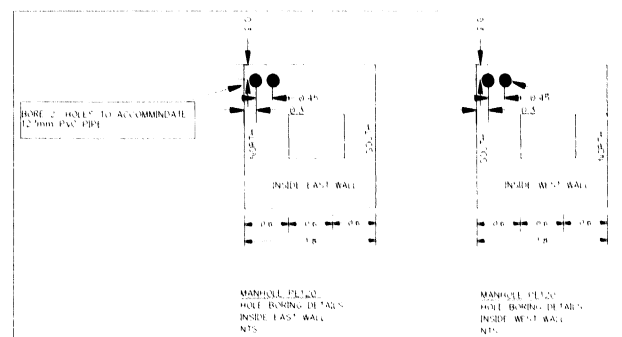
SECTION E-E



SECTION F-F



SECTION G-G



| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|--------|---------------------|--------|------------------------|--------|----------------------------|
| W | WATER MAIN | TR | TRENCH LOCATION | EX | EX MTS PWR SUPPLY PED |
| LD | LAND DRAINAGE SEWER | SN | SYSTEM NEUTRAL | J/P | J/P PEDESTAL - MH OWNED |
| SS | STORM SEWER | 1 | 1 PHASE SECONDARY | J/P | J/P PEDESTAL - MTS OWNED |
| WS | WASTE WATER | 3 | 3 PHASE SECONDARY | J/P | JUNCTION POINT (IAP BOX) |
| GM | GAS MAIN | S | SERVICE CABLE | PC | PMT CAPACITOR |
| BC | MTS BURIED CABLE | 2" | 2" PLASTIC PIPE | DC | DC CENTRE (CUBICLE) |
| MT | MTS DUCT SYSTEM | EX | EXCLUSIVE MH PEDESTAL | UG | UG FUSE |
| OL | OIL | EX | EXCLUSIVE MTS PEDESTAL | LS | LS LINE SWITCH |
| ST | STEAM | EX | EXCLUSIVE MTS PEDESTAL | UG | UG LINE SWITCH |
| MH | MANHOLE | EX | EXCLUSIVE MTS PEDESTAL | TR | TRENCH POINT |
| | | | | HP | HPS LUMINAIRE |
| | | | | HP | HPS LUM WITH PE CELL |
| | | | | HP | POST TOP LUMINAIRE |
| | | | | HP | STREET LIGHT MAST |
| | | | | HP | STREET LIGHT PILOT WIRE |
| | | | | HP | STREET LIGHT FEED WIRE |
| | | | | HP | ST LIGHT TPX FEED WIRE |
| | | | | HP | 120 V S/L SERVICE CABLE |
| | | | | HP | RELAY |
| | | | | HP | RELAY CABINET |
| | | | | HP | ANCHOR AND GUY |
| | | | | HP | ARRESTER |
| | | | | HP | CAPACITOR |
| | | | | HP | FLATRATE CUST. (RRY, SIGN) |
| | | | | HP | OH FUSE |
| | | | | HP | GROUND |
| | | | | HP | OH LINE SWITCH |
| | | | | HP | OCR |
| | | | | HP | REGULATOR |
| | | | | HP | TRANSFORMER |

| NO. | DATE | REVISION | BY | CHKD | APP'D | NOTED |
|-----|------|----------|----|------|-------|-------|
| | | | | | | |

ORIGINAL DRAWING SEALED BY *PA [Signature]* 98.10

| DISCIPLINE | DRAWN | CHECKED |
|--------------|-------|---------|
| CIVIL | | |
| ELECTRICAL | | |
| MECHANICAL | | |
| DISTRIBUTION | | |
| PROJECT | | |
| CONSTRUCTION | | |
| MANAGER | | |

SCALE: 1:1000

DATE: 98 06

MANITоба HYDRO

POG # 71030 & 74224

DISTRICT: FT. GARRY

WILKES ASSINIBOINE FEEDER

EXTENSION W-65 & W-71

03053-E-07446 03 00

AUTOGAD ORIGINAL

Notes :

| APPROVALS | REQ. RECD | NOTIFIED | CBTD |
|-------------------|-----------|----------|------|
| DEPT. OF HIGHWAYS | | | |
| MUNICIPAL | | | |
| W.T.S. | | | |
| GAS | | | |
| EASEMENTS | | | |
| CONTROL CENTER | | | |
| RAILWAY | | | |

NO MAJOR CHANGES TO BE MADE WITHOUT PRIOR APPROVAL OF THE DISTRIBUTION DESIGN ENGINEER

| MANITOBA HYDRO - MANITOBA TELEPHONE SYSTEM JOINT USE | |
|--|--------|
| REQUIREMENT | YES NO |
| EASEMENTS | |
| JOINT USE INVOLVED | |
| DESIGNED FOR JOINT USE | |
| approved by Mh | date |
| approved by MTS | date |

EASEMENTS NOT SECURED - CONTACT ENGINEERING BEFORE CONSTRUCTION

REGIONAL STREET REVIEWED FOR CONSTRUCTION

STREETS REVIEWED FOR CONSTRUCTION

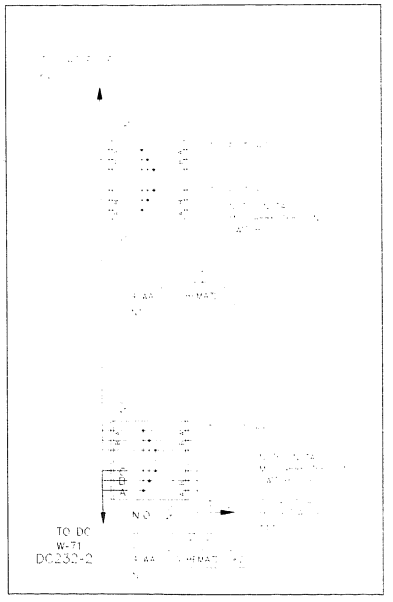
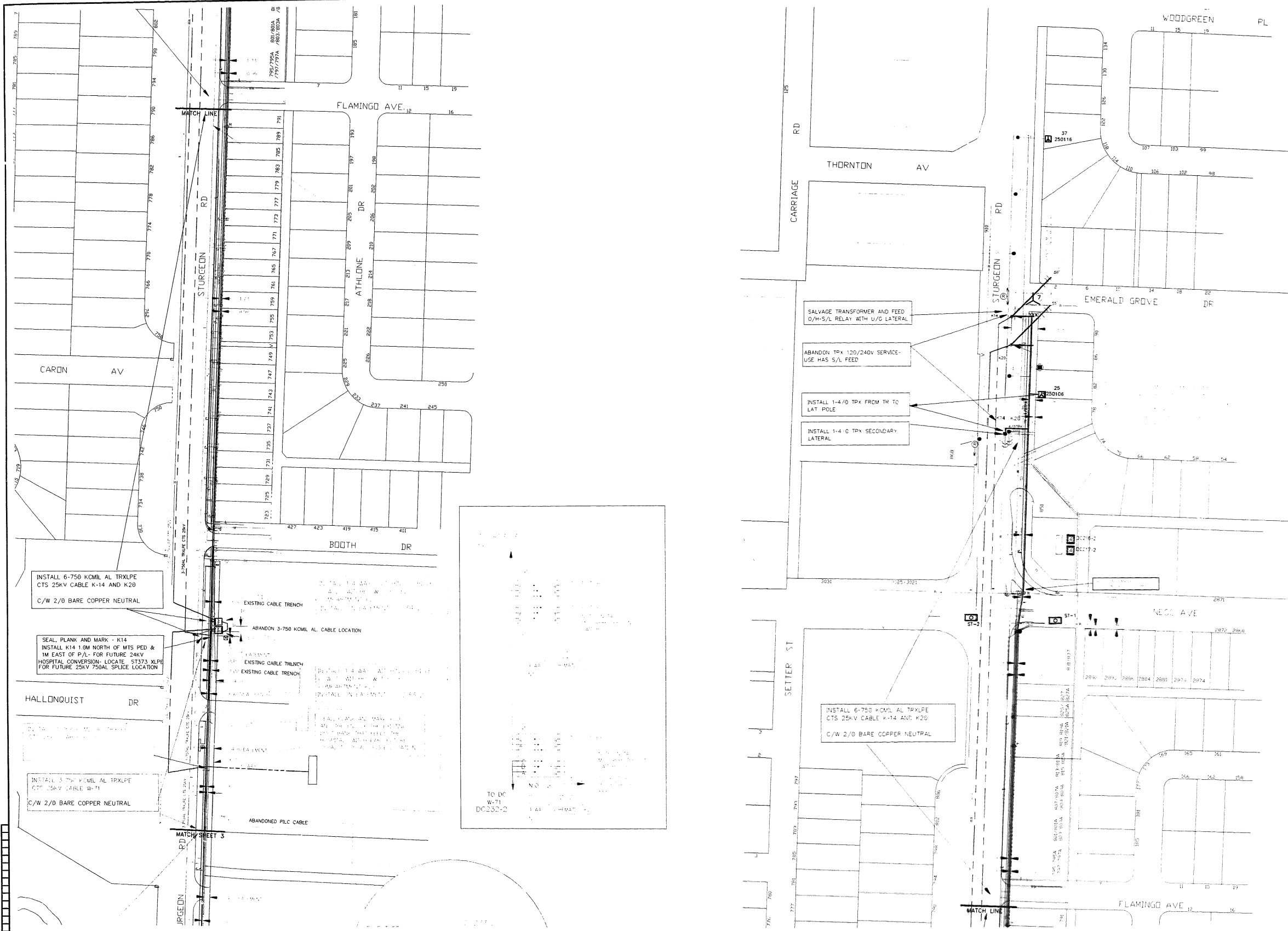
W.W.D. [Signature]

APPROVED [Signature]

DATE: July 29/98

CONSTRUCTION AS SHOWN... (Small text regarding easements and construction details)

24-1123



| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|--------|------------------------|--------|--------------------------|--------|--------------------------|
| W | WATER MAIN | PS | EX MTS PWR SUPPLY PED | HL | HPS LUMINAIRE |
| LD | LAND DRAINAGE SEWER | PN | J/U PEDESTAL-MH OWNED | HL | HPS LUM. WITH PE CELL |
| SS | STORM SEWER | PN | J/U PEDESTAL-MTS OWNED | PL | POST TOP LUMINAIRE |
| WS | WASTE WATER | J | JUNCTION POINT (TAP BOX) | SL | STREET LIGHT MAST |
| G | GAS MAIN | PC | PMT CAPACITOR | SL | STREET LIGHT PILOT WIRE |
| T | MTS BURIED CABLE | CC | DC CENTRE (CUBICLE) | SL | STREET LIGHT FEED WIRE |
| TD | MTS WITH DOOR LOCATION | E | ELBOW | SL | ST. LIGHT TPX FEED WIRE |
| OL | OL | F | UG FUSE | SL | 120 V S/L SERVICE CABLE |
| ST | STREAM | US | UG LINE SWITCH | R | RELAY |
| M | MANHOLE | TP | TRENCH POINT | RC | RELAY CABINET |
| | | | | A | ANCHOR AND GUY |
| | | | | AR | ARRESTER |
| | | | | C | CAPACITOR |
| | | | | FL | FLATRATE CUST. (RRX,SGH) |
| | | | | F | OH FUSE |
| | | | | G | GROUND |
| | | | | OS | OH LINE SWITCH |
| | | | | O | OCR |
| | | | | R | REGULATOR |
| | | | | T | TRANSFORMER |

| NO. | DATE | REVISIONS | BY | CRS. | APP. | NOTED |
|-----|------|-----------|----|------|------|-------|
| | | | | | | |

| DRAWING NUMBER | | REFERENCE DRAWINGS | |
|----------------|--|--------------------|--|
| | | | |

| PROJECT | CHECK | SCALE | DATE |
|---------|-------|-------|------|
| | | | |

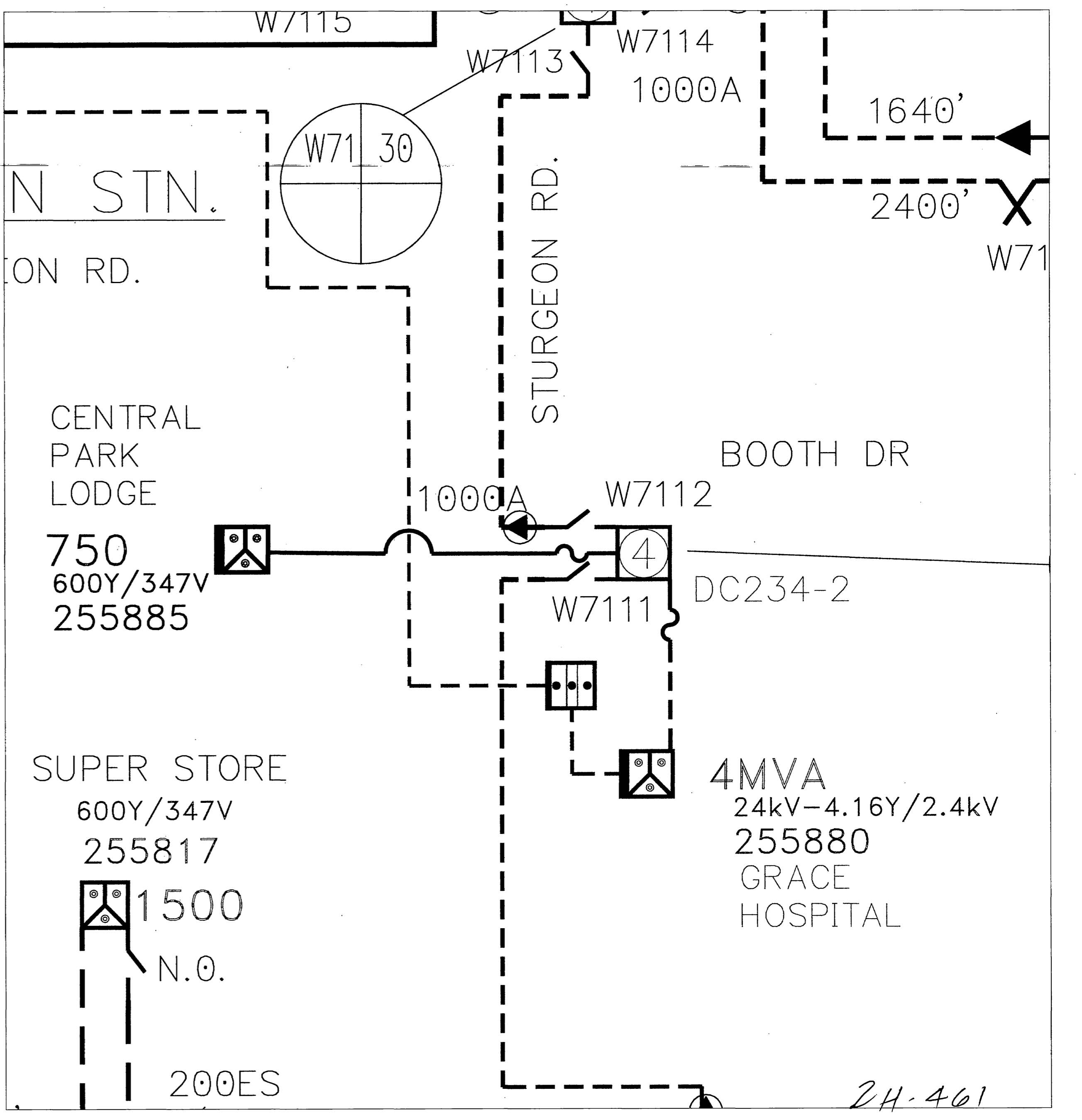
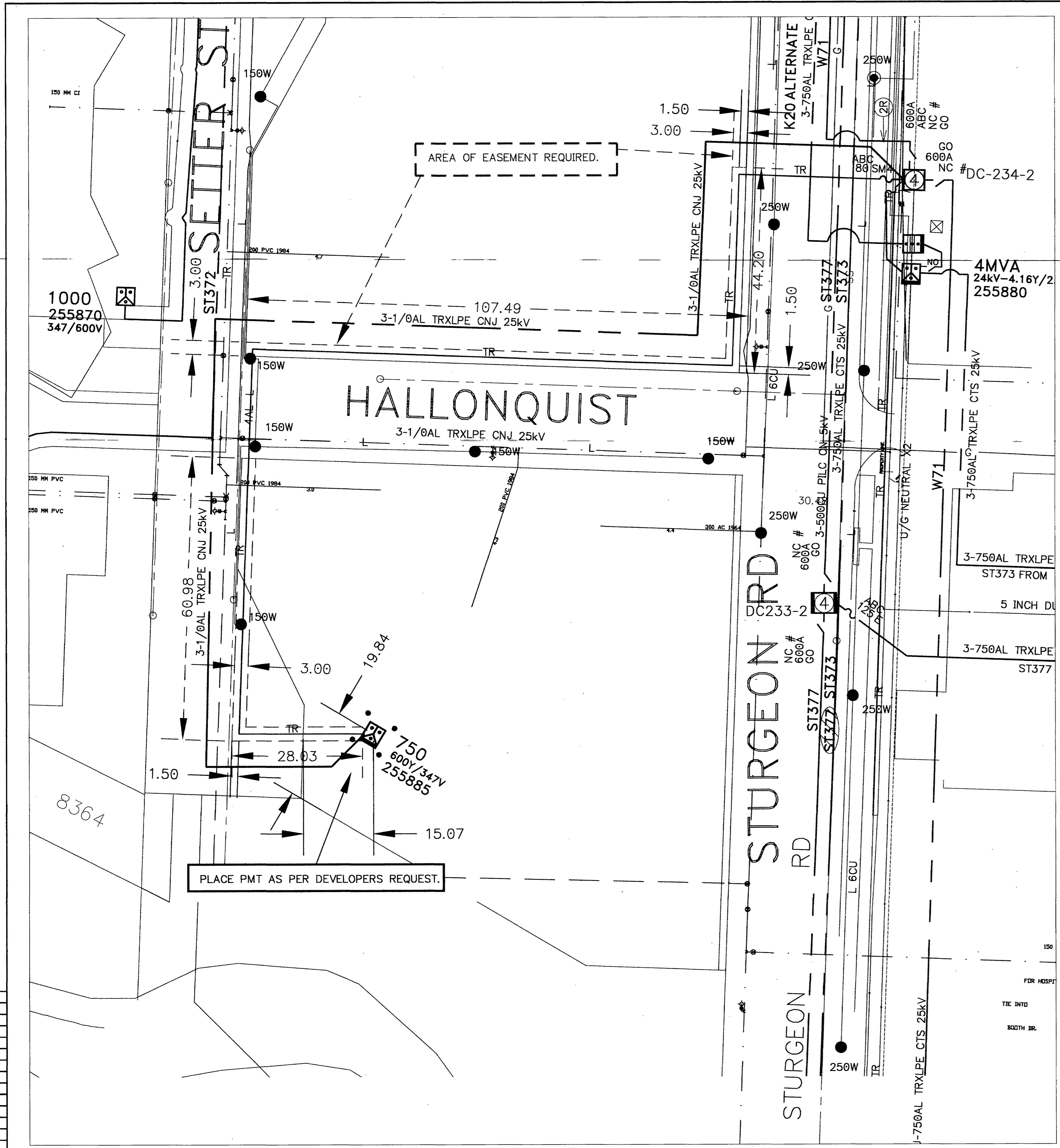
| MANITOBA HYDRO DISTRIBUTION | |
|-----------------------------|-------|
| POG #74224 & 71030 | |
| DISTRICT: ST. JAMES | |
| WLIKES ASSINIBOINE FEEDER | |
| EXTENSION W-65 & W-71 | |
| 03053-E-07446 | 06 00 |

NOTES :
CONSTRUCTION STANDARDS
 TO BE CONSTRUCTED IN ACCORDANCE WITH MANITOBA HYDRO DISTRIBUTION AND SUBTRANSMISSION STANDARDS, LATEST REVISION. NO MAJOR CHANGE SHALL BE MADE WITHOUT APPROVAL OF THE DESIGN ENGINEER OR DELEGATE.

DESIGN
 NAME : MARK SCHRAM
 PHONE : 474-4137

SITE FOREMAN
 NAME : JOHN HIRST
 PHONE : 795-7483

| AUTHORITY | NOTIFIED | NOT REQ'D | OBTAINED |
|-------------------|----------|-----------|----------|
| DEPT. OF HIGHWAYS | | X | |
| MUNICIPAL | X | | |
| M.T.S. | | X | |
| GAS | | X | |
| EASEMENTS | X | | |
| CONTROL CENTER | X | | |
| RAILWAY | | X | |
| CATV | | X | |



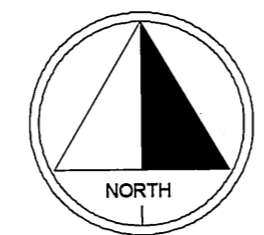
| SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION | SYMBOL | DESCRIPTION |
|--------|-------------------------|--------|---------------------------|--------|----------------------------|--------|-------------|
| W | WATER MAIN | PS | EX MTS PWR SUPPLY PED | → | ANCHOR AND GUY | | |
| LDS | LAND DRAINAGE SEWER | PS | EX CATV PWR SUPPLY PED | → | OTHER UTILITY'S ANCHOR | | |
| SS | STORM SEWER | PT | J/U PEDESTAL-MH OWNED | → | ARRESTER | | |
| DS | DOMESTIC SEWER | PT | J/U PEDESTAL-MTS OWNED | → | CAPACITOR | | |
| WS | WASTE WATER | JP | JUNCTION POINT (TAP BOX) | → | FLATRATE CUST. (RRX, SIGN) | | |
| G | GAS MAIN | PC | PMT CAPACITOR | → | OH FUSE | | |
| T | MTS BURIED CABLE | DC | DC CENTRE (CUBICLE) | → | GROUND | | |
| TD | MTS DUCT SYSTEM | UG | UG FUSE | → | OH LINE SWITCH | | |
| OL | OIL | UG | UG LINE SWITCH | → | OCR | | |
| STW | STEAM | FCI | FAULTED CIRCUIT INDICATOR | → | RELAY | | |
| TR | TRENCH LOCATION | LUM | HPS LUMINAIRE | → | RELAY CABINET | | |
| SN | SYSTEM NEUTRAL | LUM | HPS LUM. WITH PE CELL | → | | | |
| 1S | 1 PHASE SECONDARY | PT | POST TOP LUMINAIRE | → | | | |
| 3S | 3 PHASE SECONDARY | SM | STREET LIGHT MAST | → | | | |
| SC | SERVICE CABLE | PL | STREET LIGHT PILOT WIRE | → | | | |
| 50 | PMT WITH DOOR LOCATION | FL | STREET LIGHT FEED WIRE | → | | | |
| EMH | EXCLUSIVE MH PEDESTAL | TL | ST. LIGHT TPX FEED WIRE | → | | | |
| EMTS | EXCLUSIVE MTS PEDESTAL | 120 | 120 V S/L SERVICE CABLE | → | | | |
| EMCATV | EXCLUSIVE CATV PEDESTAL | REL | RELAY | → | | | |
| | | FCI | FAULTED CIRCUIT INDICATOR | → | | | |

| NO. | DATE | REVISIONS | BY | CHKD. | APP. |
|-----|------------|-----------------------------------|----|-------|------|
| 01 | 2005 05 05 | AS BUILT 2004 06 23 LARRY FRIESEN | GW | MS | MS |

| | | |
|--|------------------------|--|
| ORIGINAL DRAWING SEALED BY MANJULA MATHEW 2004 05 27 | AREA NUMBER 5001 | MANITOBA HYDRO DISTRIBUTION |
| DRAWN MS | STATION NUMBER 1085 | WBS #P08006 NETWORK #525436 |
| CHECK RCM | FEEDER NUMBER W71 | DISTRICT: WEST KILDONAN |
| SCALE 1:500 | SYSTEM VOLTAGE 24.9 kV | SUPPLY AND INSTALL 750 kVA PMT TO CENTRAL PARK LODGE |
| DATE 2004 05 26 | 1-04702-DD-50000-0045 | 10 HALLONQUIST DRIVE. |

24-461

PL SIZE - 1000 x 300



CITY OF WINNIPEG REQUIREMENTS:

WATER AND WASTE DEPARTMENT APPROVAL SUBJECT TO THE FOLLOWING NOTES:

A MINIMUM CLEARANCE OF 1000 MILLIMETERS SHALL BE PROVIDED BETWEEN THE UNDERSIDE OF ANY EXISTING WATERMAIN OR SEWERMAIN PIPE AND THE TOP OF THE PROPOSED WORKS.

A MINIMUM CLEARANCE OF 500 MILLIMETERS SHALL BE PROVIDED BETWEEN THE UNDERSIDE OF THE PROPOSED WORKS AND THE TOP OF ANY EXISTING WATERMAIN OR SEWERMAIN PIPE.

A MINIMUM LATERAL CLEARANCE OF 1.0 METER SHALL BE PROVIDED BETWEEN THE NEAREST EDGE OF THE PROPOSED WORKS AND THE NEAREST EDGE OF ANY EXISTING WATERMAIN, WATERMAIN VALVE, HYDRANT, SEWERMAIN OR SEWER MANHOLE.

A MINIMUM CLEARANCE OF 3.0 METERS SHALL BE PROVIDED BETWEEN THE NEAREST EDGE OF THE PROPOSED WORKS AND THE NEAREST EDGE OF ANY EXISTING HYDRANT AND HYDRANT BRANCH.

NOTES :

CONSTRUCTION STANDARDS

TO BE CONSTRUCTED IN ACCORDANCE WITH MANITOBA HYDRO DISTRIBUTION AND SUBTRANSMISSION STANDARDS, LATEST REVISION. NO MAJOR CHANGE SHALL BE MADE WITHOUT APPROVAL OF THE DESIGN ENGINEER OR DELEGATE.

DESIGN
 NAME: KEITH STEWART
 PHONE: 226-3688

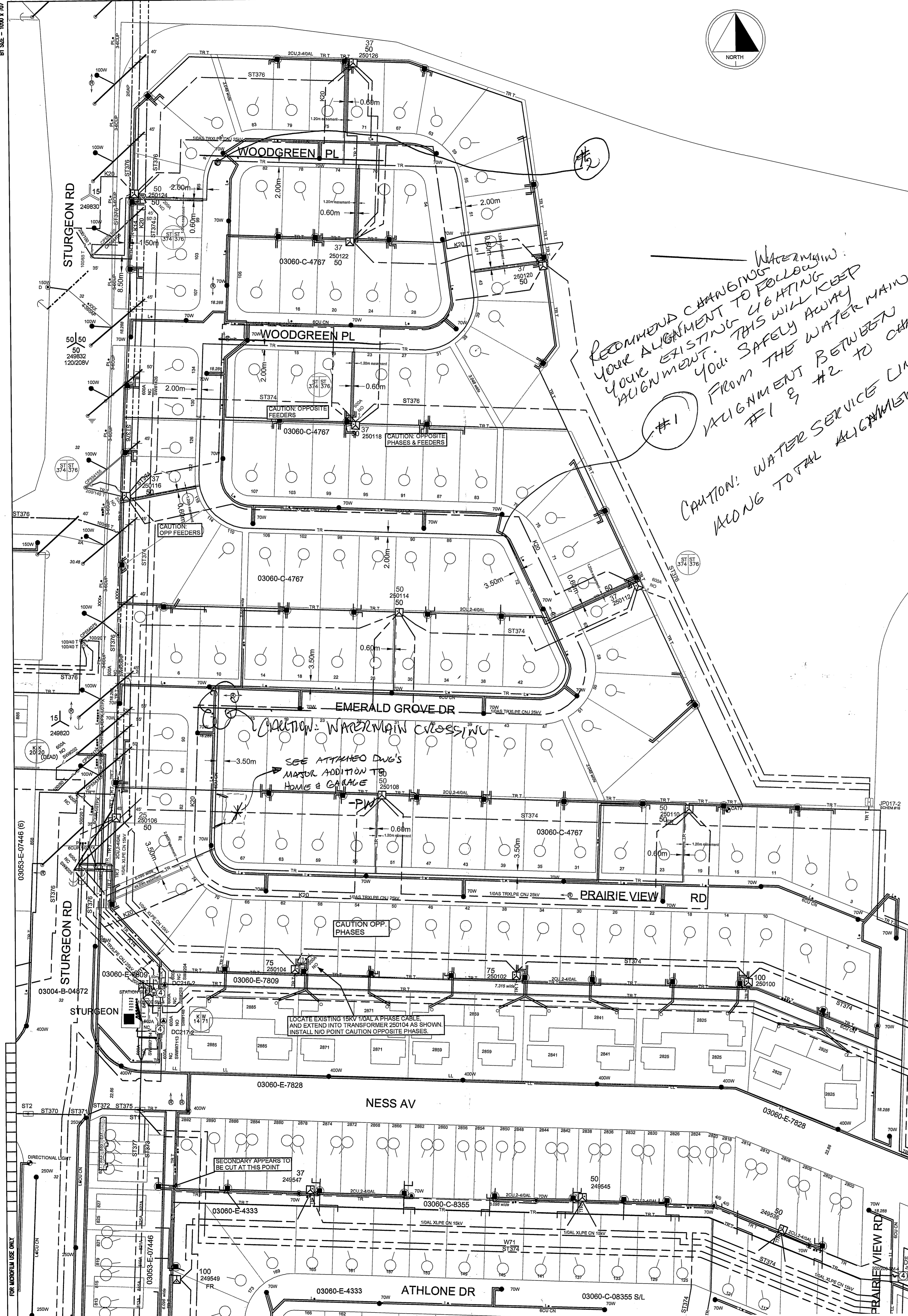
I/A CONSTRUCTION
 NAME: JOHN HINES
 PHONE: 785-7483

WEST KILDONAN DISTRICT
 NAME: DAVE STOROSCHUK
 PHONE: 697-6150

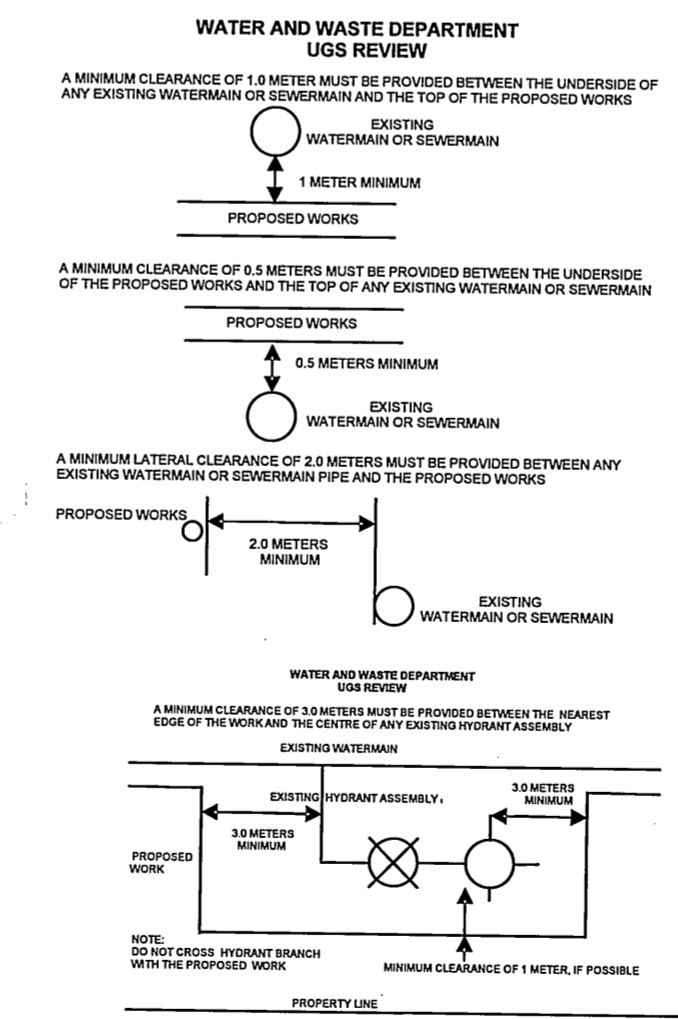
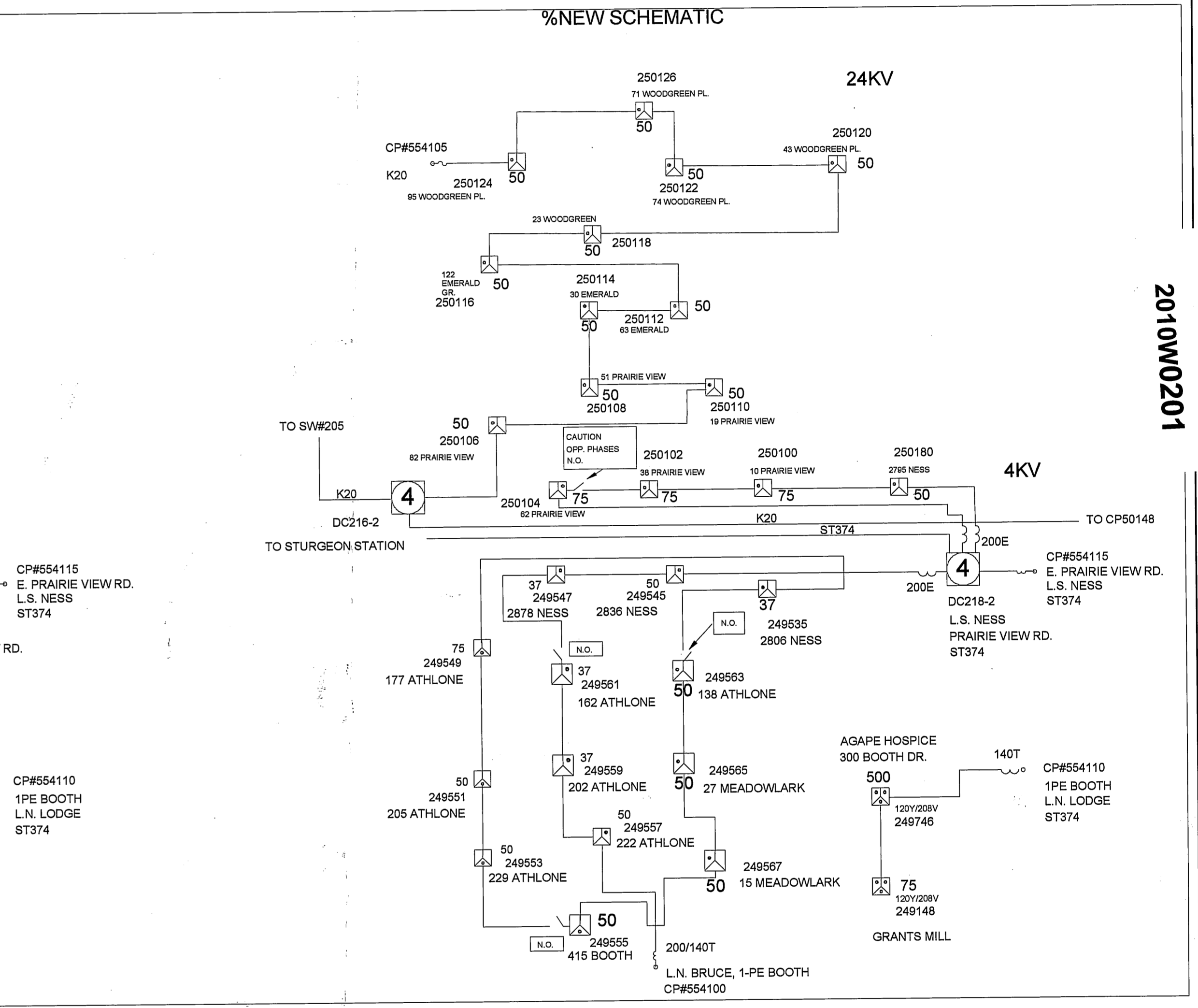
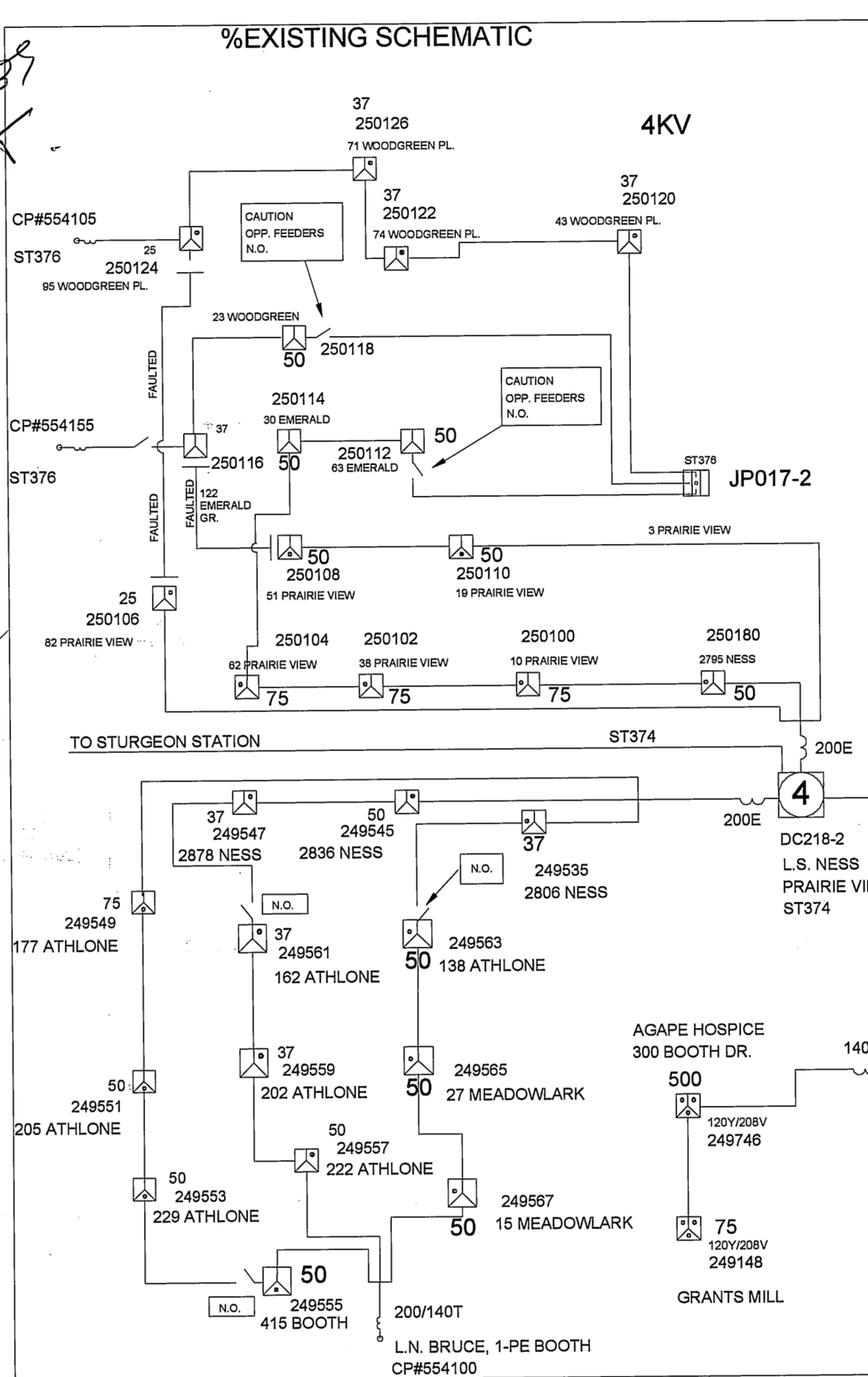
| AUTHORITY | NOTIFIED | NOT REQ'D | OBTAINED |
|-------------------|----------|-----------|------------|
| DEPT. OF HIGHWAYS | | X | |
| MUNICIPAL | X | | |
| M.T.S. | X | | |
| GAS | | X | |
| EASEMENTS | X | | 2010/01/27 |
| CONTROL CENTER | X | | |
| RAILWAY | | X | |
| CATV | X | | |

FOR CLEARANCE OF EXISTING WATER & WASTE DEPARTMENT PLANT CONTACT THE SURVEY & INSPECTION BRANCH 48 HOURS PRIOR TO CONSTRUCTION AT 986-3322

10 APR 29 P3:42



RECOMMEND CHANGING WATERMAIN ALIGNMENT TO FOLLOW YOUR EXISTING LIGHTING ALIGNMENT. THIS WILL KEEP YOU SAFELY AWAY FROM THE WATER MAIN #1 & #2 TO CHANGE CAUTION: WATER SERVICE LINES ALONG TOTAL ALIGNMENT



REVIEWED FOR CONSTRUCTION

| DEPARTMENT | DATE | INTLS. |
|------------------------|-----------|--------|
| UNDERGROUND STRUCTURES | | |
| STREETS | Apr 29/10 | SRH |
| W.W.D. | Apr 29/10 | SRH |

APPROVAL VALID FOR ONE YEAR FROM THE DATE SHOWN BELOW. UNDERGROUND STRUCTURES SHOULD BE IDENTIFIED AS SOON AS POSSIBLE OF CANCELLATION OF THE PROJECT OR ANY PORTION THEREOF.

LOCATION APPROVED UNDERGROUND STRUCTURES

SUPERVISOR: [Signature]

DATE: Apr 29/10

23 WOODGREENE PLACE HAS A POOL AND GATE IS LOCKED, CALL 832-1767 WHEN WORK IS TO BE DONE.

EXCAVATION PERMITS REQUIRED PRIOR TO CONSTRUCTION.

CAUTION: THE LOCATION OF WATER SERVICE SHUT-OFF VALVES CAN VARY SIGNIFICANTLY. A MINIMUM OF 1.0 METER CLEARANCE FROM ALL SHUT-OFF VALVES IS REQUIRED.

CONTACT THE CUSTOMER TECHNICAL SERVICES BRANCH AT 986-3322 48 HOURS PRIOR TO CONSTRUCTION FOR CLEARANCE OF EXISTING WATER AND WASTEWATER UTILITIES

| NO. | DATE | REVISIONS | BY | CHKD. | APP. |
|-----|------|-----------|----|-------|------|
| | | | | | |

| AREA NUMBER | STATION NUMBER | FEEDER NUMBER | SYSTEM VOLTAGE | SCALE | DATE | REV. |
|-------------|----------------|---------------|----------------|--------|------------|------|
| 5001 | XXXX | ST376 | 4KV/24KV | 1:1000 | 2009 07 02 | 01 |

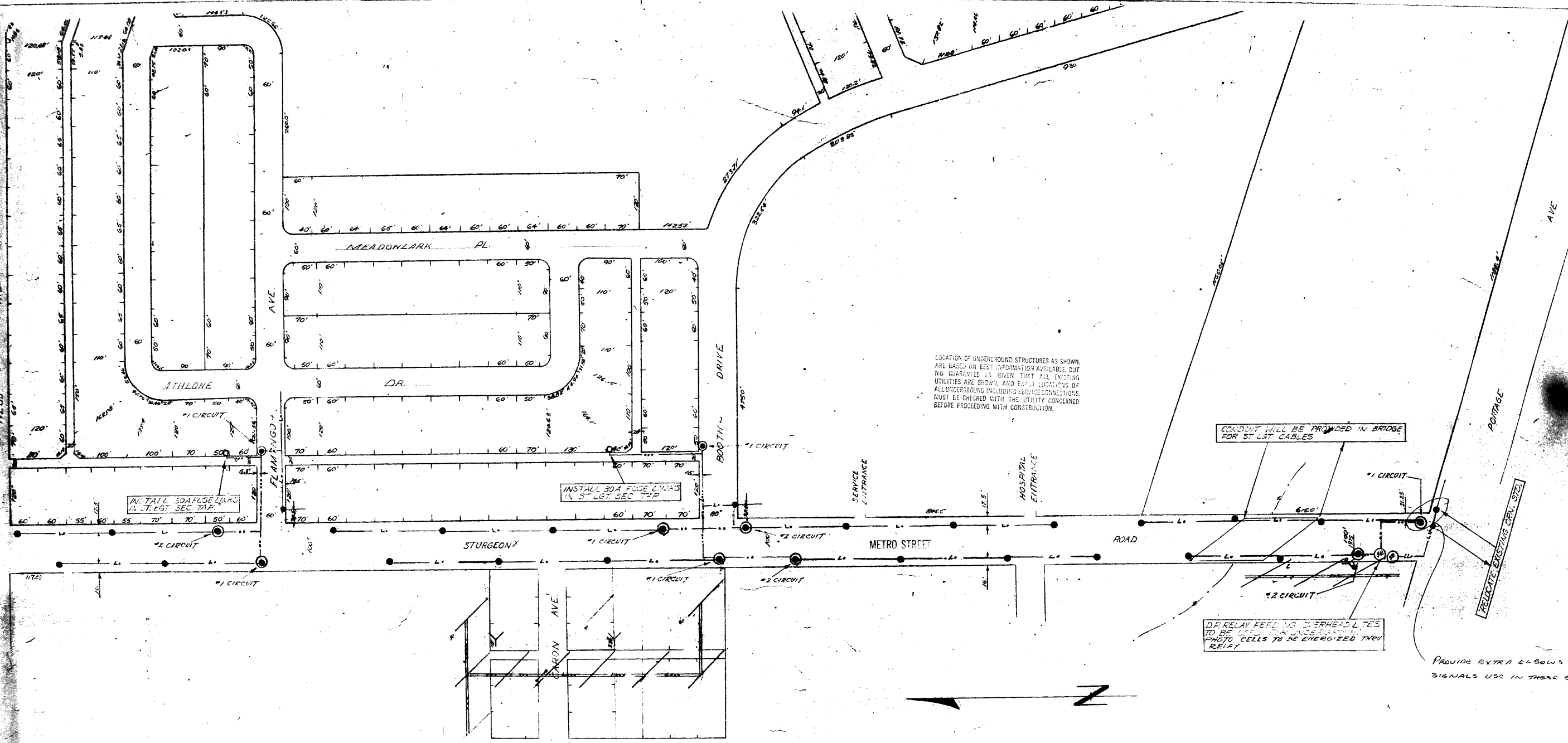
MANITOBA HYDRO
 DISTRIBUTION PLANNING & DESIGN
 WBS # P06984 NETWORK # 525485

DISTRICT: WEST KILDONAN
 SYSTEM IMPROVEMENT
 RIN CABLE REPLACEMENT & CONVERSION FROM 4KV TO 25KV ON PRAIRIE VIEW RD, EMERALD GROVE DR, GREEN PL & WOOD DR IN ST.JAMES

1-04708-DE-50000-0074

2010W0201

24-509



LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN, AND EXACT LOCATIONS OF ALL UNDERGROUND INCLUDING SERVICE CONNECTIONS, MUST BE CHECKED WITH THE UTILITY CONCERNED BEFORE PROCEEDING WITH CONSTRUCTION.

CONDUIT WILL BE PROVIDED IN BRIDGE FOR ST. LGT. CABLES

OR RELAY FEELING DISKHEAD L.T.S. TO BE USED FOR UNDERGROUND PHOTO CELLS TO BE ENERGIZED THRU RELAY

PROVIDE EXTRA ELBOWS FOR SIGNALS USE IN THESE CASES.

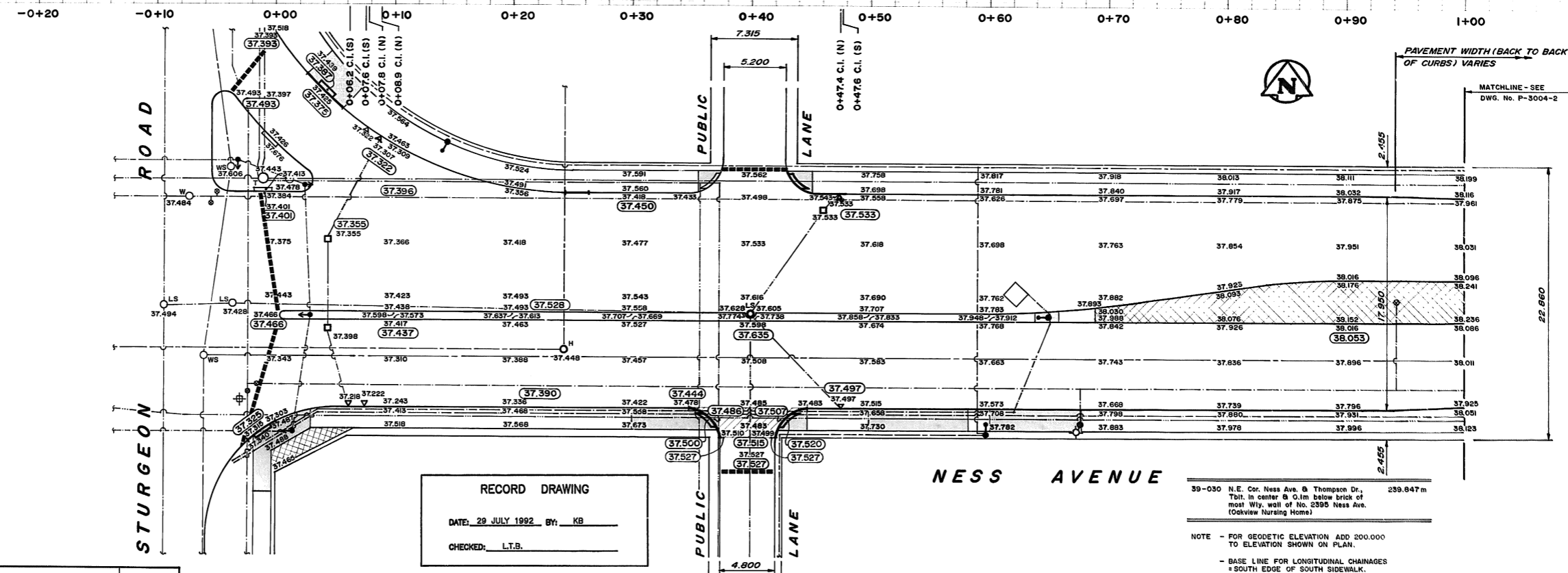
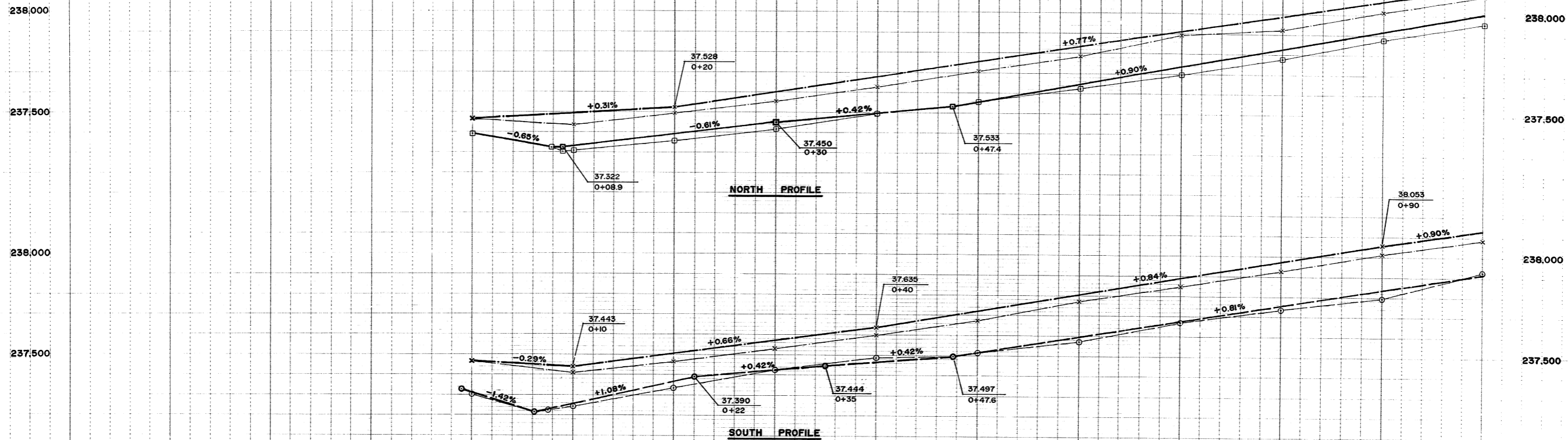
BURY #4 TWO 1/2" DIA. ST. LGT. PIPES & #6 BARE CU WIRE THORN
 BURY #4 TWO 1/2" DIA. SEC. & #6 BARE CU WIRE THORN
 INSTALL 400 W. INT. BAL. LUM. ON 20' DIA. TYPE ORN. STDS. SHOWN
 INSTALL 400 W. INT. BAL. LUM. ON TWIST LOCK RECEPTICLE & 1000 W. F.E. CELL
 IN LUMINAIRE & 30A. MULT. RELAY IN BASE OF 20' DIA. TYPE ORN. STD. SHOWN
 REMOVE 2-300 W. INC. & 1-400 W. POLE MOUNTED ST. LGTS & 2-D.P. RELAYS
 ON STURGEON RD. BETWEEN PORTAGE & NESS AVE.

2-L-45
 WA 81

APPROVED FOR CONSTRUCTION
 SUBJECT TO ABOVE NOTES IN RED
 DIRECTOR, STREETS & TRANSIT DIVISION

LOCATION APPROVED
 UNDERGROUND STRUCTURES COMMITTEE
 7-15-65

MANITOBA HYDRO
 SUBURBAN DISTRIBUTION
 PROPOSED CONSTRUCTION TO INSTALL
 29-400 W. INT. BAL. LUM. ORN. ST. LGTS.
 ON STURGEON ROAD, ST. JAMES.
 DRAWN: P.C. AUGER SCALE: 1"=100'
 TRACED: S.M.B. DATE: 6/16/65
 CHECKED: S.M.B.
 APPROVED: W.O. 30635
 DRG. No. 3060.D.4441 3/2



RECORD DRAWING
 DATE: 29 JULY 1992 BY: KB
 CHECKED: L.T.B.

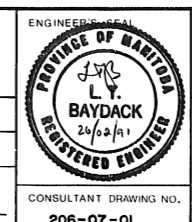
39-030 N.E. Cor. Ness Ave. & Thompson Dr., 239.847m
 Tdlt. in center @ 0.1m below brick of
 most Wj. wall of No. 2395 Ness Ave.
 (Oakview Nursing Home)
 NOTE - FOR GEODETIC ELEVATION ADD 200.000
 TO ELEVATION SHOWN ON PLAN.
 - BASE LINE FOR LONGITUDINAL CHAINAGES
 = SOUTH EDGE OF SOUTH SIDEWALK.

| LIMIT OF ASPHALT | | UTILITIES ADJUSTED | | HIGH POINT | | H.P. | |
|------------------|---------------------|--------------------|-------------------|---------------|----------------------|---------------|----------------------|
| 150 mm W.M. | WATERMAIN | 150 mm W.M. | HYDRANT | 150 mm W.M. | HYDRO | 150 mm W.M. | M.T.S. |
| 300 mm L.D.S. | LAND DRAINAGE SEWER | 300 mm L.D.S. | WASTE WATER SEWER | 300 mm L.D.S. | NEW 200 CONCRETE | 300 mm L.D.S. | 100 CONCRETE RENEWAL |
| 250 mm W.W.S. | MANHOLE | 250 mm W.W.S. | CATCH BASIN | 250 mm W.W.S. | PROPERTY LINE | 250 mm W.W.S. | SURVEY BAR |
| | CURB INLET | | JUNCTIONS | | 200 CONCRETE RENEWAL | | NEW 100 CONCRETE |
| | SIGNALS | | GAS | | ELEVATION | | (40.000) |
| EXISTING | LEGEND-PLAN | PROPOSED | EXISTING | LEGEND-PLAN | PROPOSED | EXISTING | LEGEND-PROFILE |
| | | | | | | | PROPOSED |

LOCATION APPROVED UNDERGROUND STRUCTURES
 SUPV U/G STRUCTURES COMMITTEE DATE
 NOTE:
 LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION

B.M. 39-030
 ELEV. 239.847m
 DESIGNED BY: LTB
 DRAWN BY: KB
 HOR. SCALE 1:200
 VERTICAL SCALE 1:10
 AS BUILT 29-07-92
 REVISIONS: NO. DATE BY

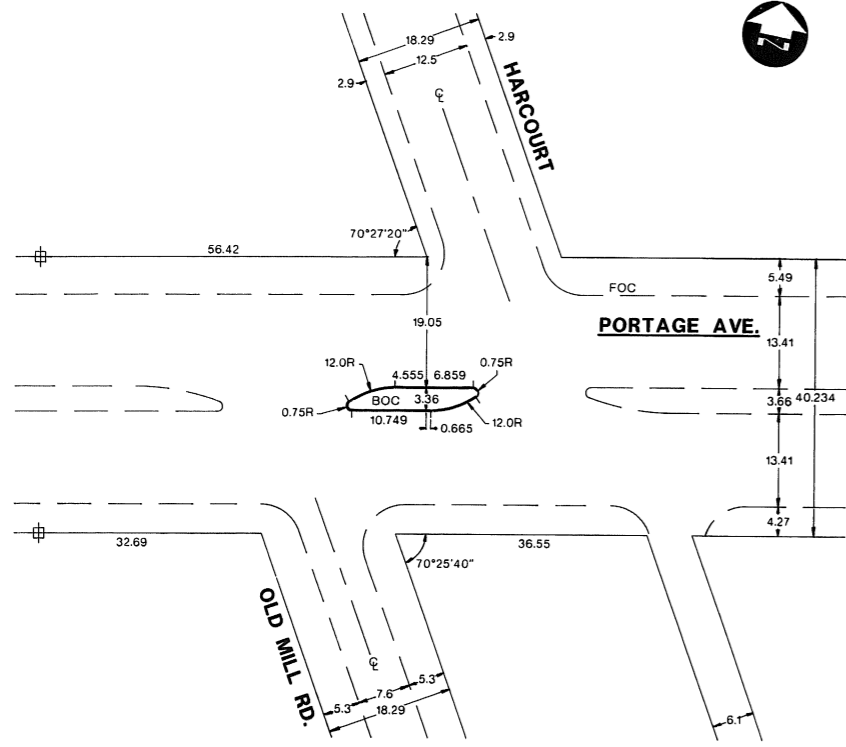
NORENCO ASSOCIATED LTD.
 ENGINEERS
 DESIGNED BY: LTB
 CHECKED BY: LTB
 DRAWN BY: KB
 APPROVED BY: LTB
 HOR. SCALE 1:200
 VERTICAL SCALE 1:10
 RELEASED FOR CONSTRUCTION
 CONSULTANT DRAWING NO. 206-07-01



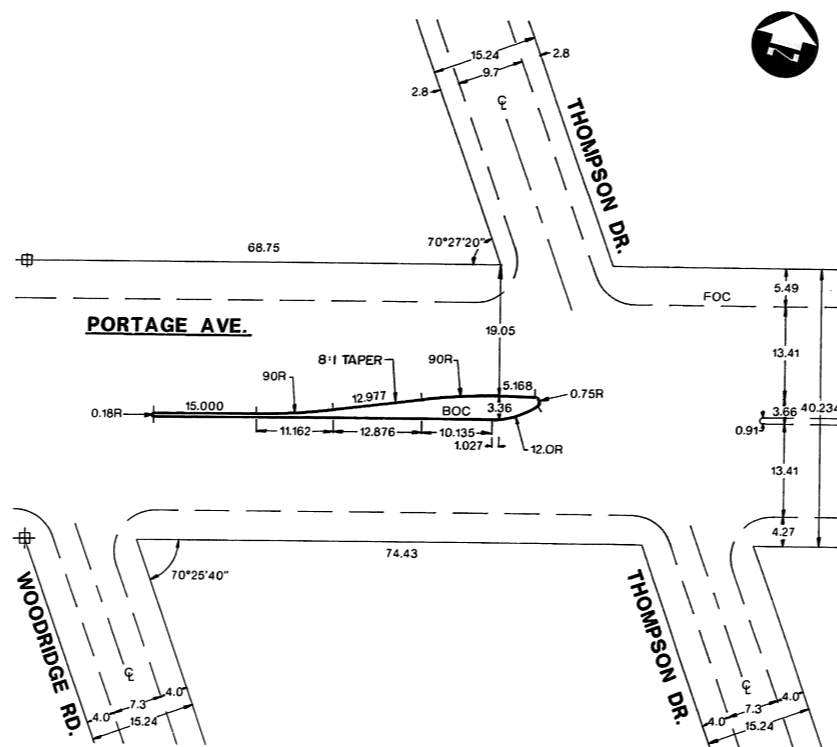
THE CITY OF WINNIPEG
 WORKS AND OPERATIONS DIVISION
 STREETS AND TRANSPORTATION DEPARTMENT

NESS AVENUE
 CONCRETE REPAIRS, ASPHALT OVERLAY & RESURFACING, SIDEWALK RENEWALS
 STURGEON ROAD TO WALLASEY STREET
 STA. 0+04 TO STA. 1+00

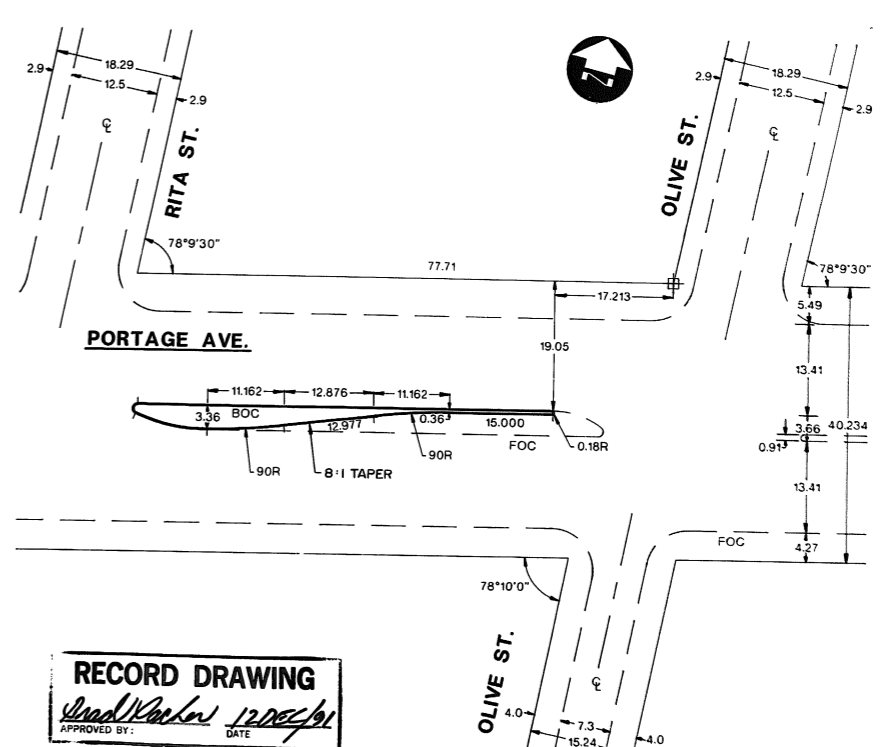
CITY DRAWING NUMBER: P-3004-1
 SHEET 1 OF 8



MEDIAN GEOMETRY HARCOURT ST.
SCALE 1"=500

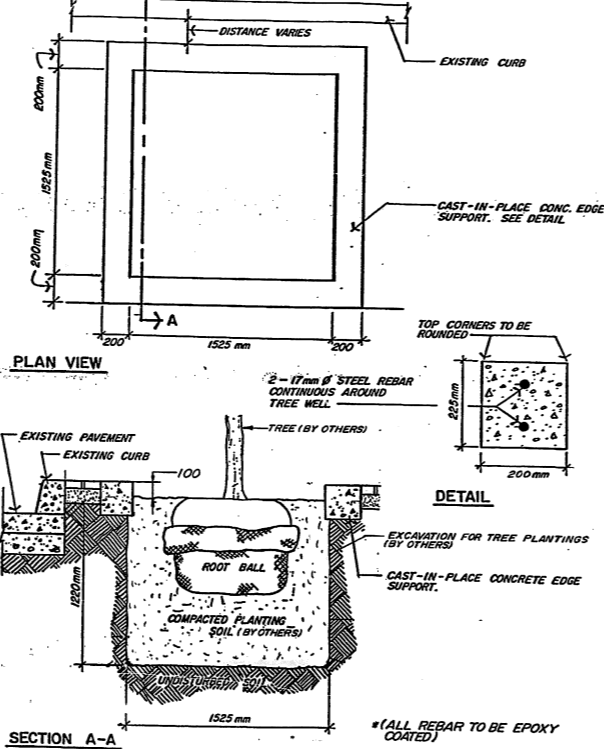
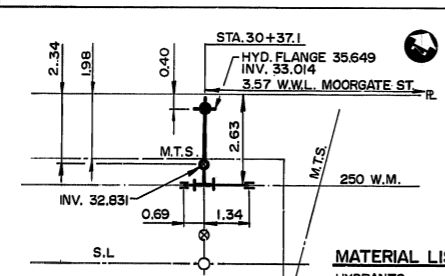
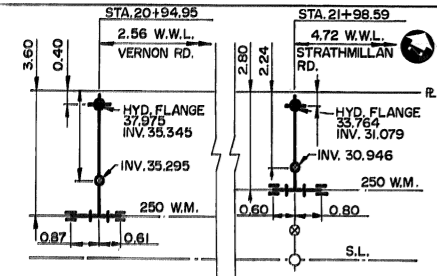
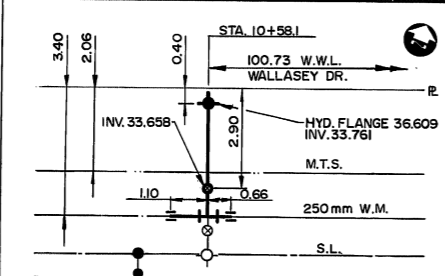
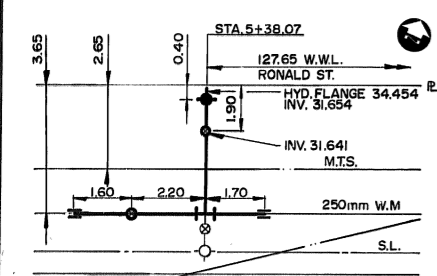


MEDIAN GEOMETRY AT THOMPSON DR.
SCALE 1"=500

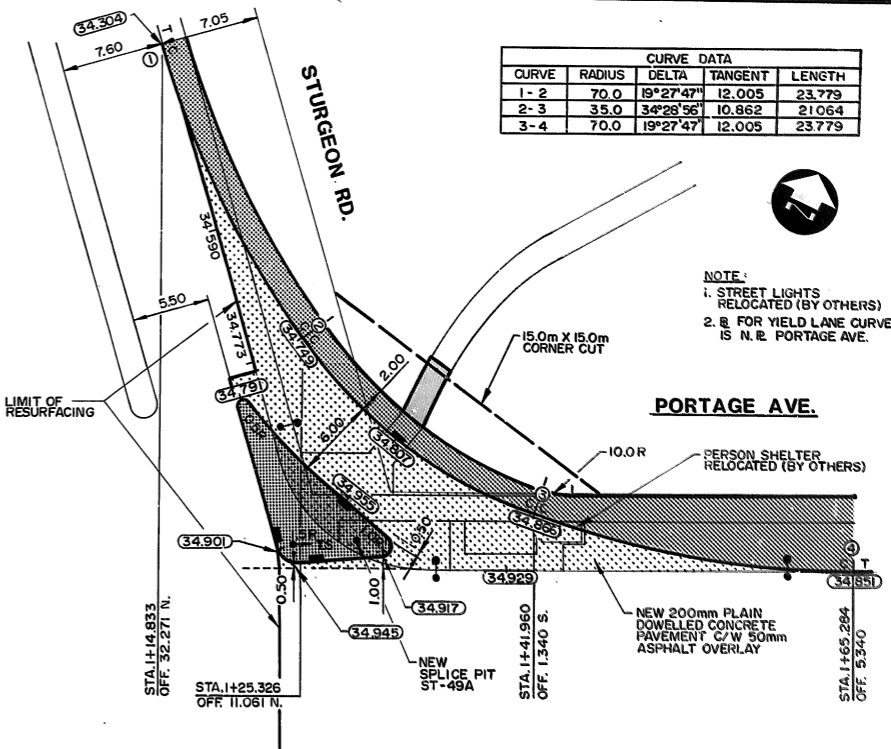


MEDIAN GEOMETRY AT OLIVE ST.
SCALE 1"=500

RECORD DRAWING
APPROVED BY: *[Signature]* DATE: 12/05/91



TREE WELL DETAIL
NOTE: FOR CLARITY, JOINT & SLAB REPAIR LOCATIONS & DIMENSIONS ARE NOT SHOWN. INFORMATION IS AVAILABLE UPON REQUEST. BY CONTACTING M.M. DILLON LTD.



RIGHT TURN YIELD PORTAGE AVE. AT STURGEON RD.
SCALE 1"=250

HYDRANT RELOCATIONS
N.T.S.

| 150 mm W.M. | 150 mm W.M. | HYDRO | 150 mm W.M. | WATERMAIN | 300 mm L.D.S. | 300 mm L.D.S. | 250 mm W.W.S. |
|---------------------|-------------------|----------|-------------|-------------|---------------|---------------|----------------|
| HYDRANT | VALVE | M.T.S. | CONCRETE | ASPHALT | PROPERTY LINE | SURVEY BAR | |
| LAND DRAINAGE SEWER | WASTE WATER SEWER | MANHOLE | CATCH BASIN | CURB INLET | JUNCTIONS | CULVERT | GAS |
| EXISTING | LEGEND-PLAN | PROPOSED | EXISTING | LEGEND-PLAN | PROPOSED | EXISTING | LEGEND-PROFILE |
| | | | | | | | PROPOSED |

LOCATION APPROVED UNDERGROUNDS STRUCTURES
DATE: 12/05/91

| NO. | REVISIONS | DATE | BY |
|-----|-----------|------|----|
| | | | |

DILLON
Consulting Engineers - Planners
Environmental Scientists

DESIGNED BY: W.J.K./B.W.S. CHECKED BY: D.P.K.
DRAWN BY: G.J.T. APPROVED BY: *[Signature]*

HOR. SCALE: AS SHOWN
VERTICAL: AS SHOWN

RELEASED FOR CONSTRUCTION: DATE: FEB. 91

ENGINEER'S SEAL
PROVINCE OF MANITOBA
B.W. SACHER
REGISTERED PROFESSIONAL ENGINEER

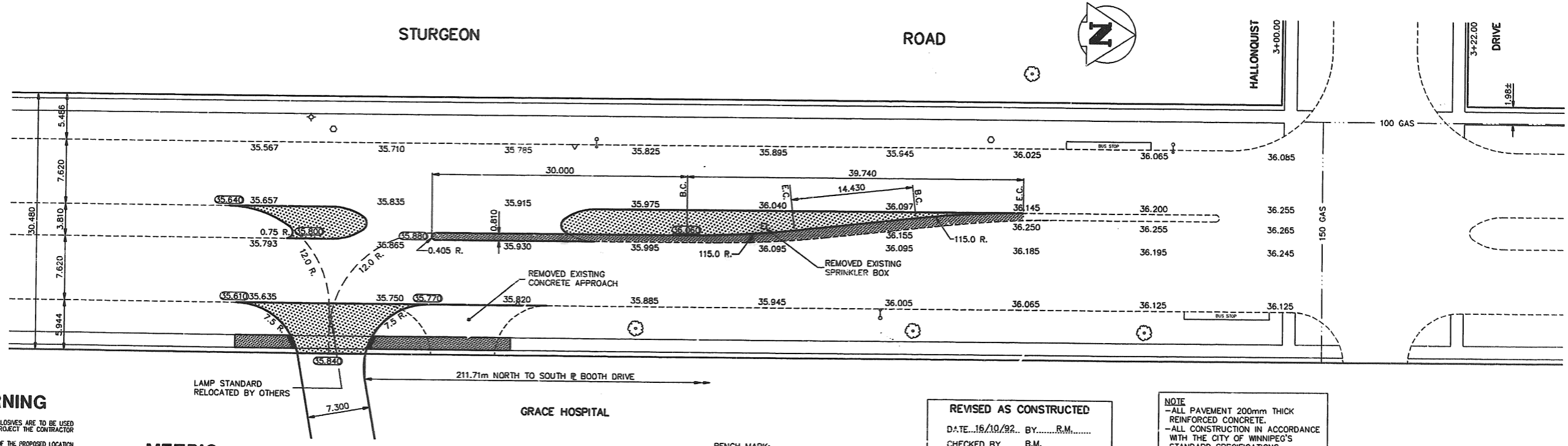
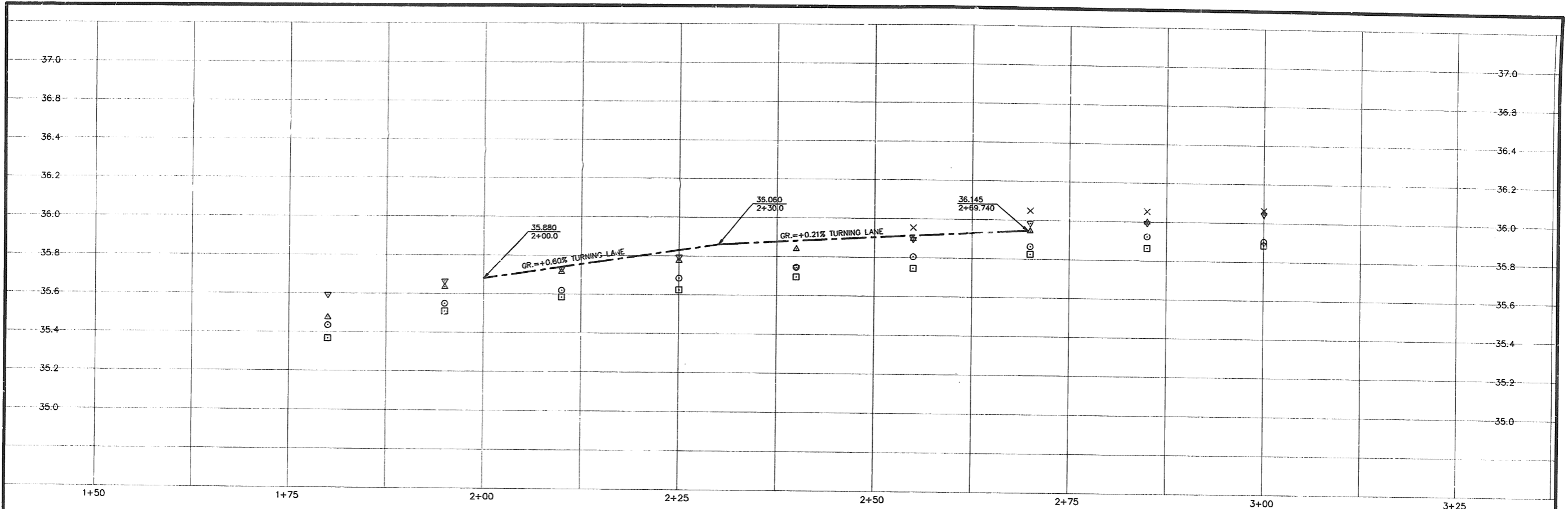
THE CITY OF WINNIPEG
WORKS AND OPERATIONS DIVISION
STREETS AND TRANSPORTATION DEPARTMENT

PORTAGE AVENUE ASPHALT RESURFACING

GEOMETRICS AND MISCELLANEOUS DETAILS

CITY DRAWING NUMBER: P3005-10
SHEET 9 OF 9

CONSULTANT DRAWING NO. R-91-B-09
M.M.D. 3436-01



WARNING

IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:
 1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
 2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.
 SEE PROVINCIAL REGULATION 210/72 FOR DETAILS

METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
 DECIMALIZED NUMBERS INDICATE METRES

| EXISTING | LEGEND-PLAN | PROPOSED | EXISTING | LEGEND-PLAN | PROPOSED | EXISTING | LEGEND-PROFILE | PROPOSED |
|------------|---------------------|------------|---------------|-------------|---------------------|------------|---------------------|------------|
| 150 WM | WATERMAIN | 150 WM | HYDRO | 150 WM | WATERMAIN | 150 WM | WATERMAIN | 150 WM |
| 300 L.D.S. | HYDRANT VALVE | 300 L.D.S. | M.T.S. | 300 L.D.S. | HYDRANT, VALVE | 300 L.D.S. | HYDRANT, VALVE | 300 L.D.S. |
| 250 WWS | LAND DRAINAGE SEWER | 250 WWS | CONCRETE | 250 WWS | LAND DRAINAGE SEWER | 250 WWS | LAND DRAINAGE SEWER | 250 WWS |
| ○ | WASTE WATER SEWER | ○ | ASPHALT | ○ | WASTE WATER SEWER | ○ | WASTE WATER SEWER | ○ |
| □ | MANHOLE | □ | SIDEWALK | □ | TURNING LANE | □ | TURNING LANE | □ |
| ▽ | CATCH BASIN | ▽ | PROPERTY LINE | ▽ | WEST GUTTER | ▽ | WEST GUTTER | ▽ |
| △ | CURB INLET | △ | SURVEY BAR | △ | EAST GUTTER | △ | EAST GUTTER | △ |
| ◇ | JUNCTIONS | ◇ | DITCH | ◇ | NORTH OR WEST P. | ◇ | NORTH OR WEST P. | ◇ |
| ○ | CULVERT | ○ | ELEVATION | ○ | SOUTH OR EAST P. | ○ | SOUTH OR EAST P. | ○ |
| ○ | GAS | ○ | | ○ | WEST MEDIAN GUTTER | ○ | WEST MEDIAN GUTTER | ○ |
| ○ | | ○ | | ○ | EAST MEDIAN GUTTER | ○ | EAST MEDIAN GUTTER | ○ |

LOCATION APPROVED UNDERGROUND STRUCTURES

DATE: _____
 SUPV. U/G STRUCTURES COMMITTEE
 NOTE: LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. COMPARISON OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

BENCH MARK:
 S.E. COR. STURGEON RD. & BOOTH DR.,
 T.B.L.T. ON TOP OF 0.05m DIA. X 2.4m IRON PIPE, 3.5m W. OF E.L. OF STURGEON RD. & 3.3m N. OF S.L. OF BOOTH DR.

REVISED AS CONSTRUCTED
 DATE: 16/10/92 BY: R.M.
 CHECKED BY: R.M.

NOTE
 -ALL PAVEMENT 200mm THICK REINFORCED CONCRETE.
 -ALL CONSTRUCTION IN ACCORDANCE WITH THE CITY OF WINNIPEG'S STANDARD SPECIFICATIONS.

FILE: 92STURGE.DWG

IDE I.D. ENGINEERING CANADA INC.
 Professional Engineers
 WINNIPEG, MANITOBA

DESIGNED BY: B.M. CHECKED BY: D.G.M.
 DRAWN BY: R.M. APPROVED BY: D.G.M.

HOR. SCALE: 1:250
 VERTICAL: 1:10

1 REV. TO AS BUILT 16/10/92 R.M.
 NO. REVISIONS DATE BY DATE AUGUST 31, 1992 DATE

ENGINEER'S SEAL
PROVINCE OF MANITOBA
 ORIGINAL STAMPED BY
 D.G. MULDER
 P. ENG.
 3/9/92
 REGISTERED ENGINEER

CONSULTANT DRAWING NO.
D2-14-419

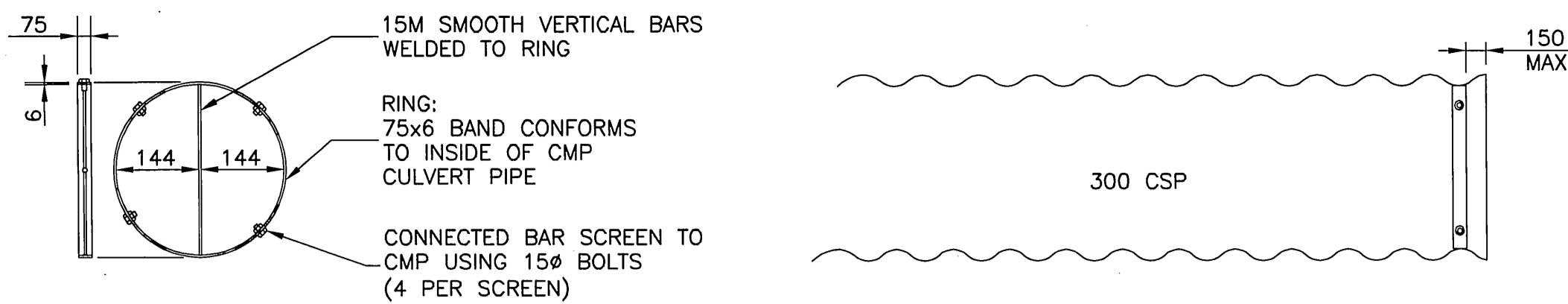
THE CITY OF WINNIPEG
 WORKS AND OPERATIONS DIVISION
 OPERATIONS DEPARTMENT - DISTRICT 2

PAVEMENT MODIFICATIONS ON
STURGEON ROAD
 AT WEST ENTRANCE TO GRACE HOSPITAL

CITY DRAWING NUMBER
 SHEET 1 OF 1
P-3039-1

NOTE : FINAL SIDEWALK GRADES DETERMINED IN THE FIELD BY CONTRACT ADMINISTRATOR.

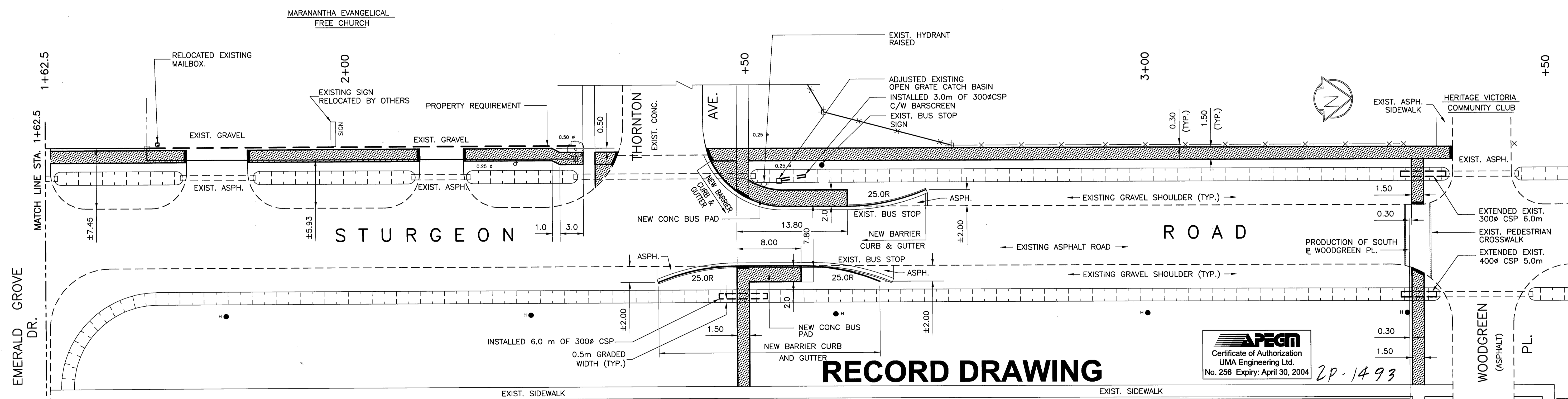
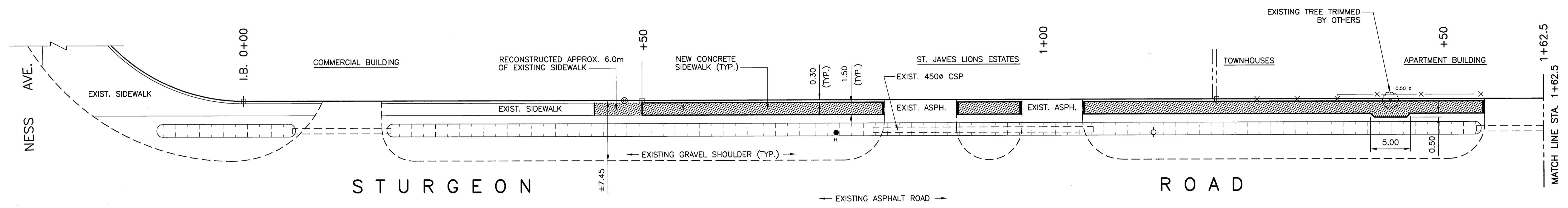
METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES



BAR SCREEN DETAIL (INLET)
NTS

CSP INLET
NTS

ENTIRE ASSEMBLY GALVANIZED AFTER FABRICATION



RECORD DRAWING

APEGM
Certificate of Authorization
UMA Engineering Ltd.
No. 256 Expiry: April 30, 2004

2P-1493

TENDER No. 564-2002

| EXISTING FACILITY | PLAN LEGEND | PROPOSED FACILITY |
|-------------------|---------------|-------------------|
| + | SURVEY BAR | |
| — | RIGHT OF WAY | |
| — | SIDEWALK | |
| + | HYDRANT | |
| + | WATER VALVE | |
| ○ | MANHOLE | |
| ○ | CATCH BASIN | |
| — | CURB INLET | |
| — | CULVERT | |
| — | PROPERTY LINE | |
| — | SIDEWALK RAMP | |

| EXISTING FACILITY | PROFILE LEGEND | PROPOSED FACILITY |
|-------------------|---------------------------|-------------------|
| — | CURB | |
| — | PRAIRIE OR PROPERTY LINE | |
| — | SIDEWALK | |
| — | DITCH | |
| — | DRIVEWAY OR GARAGE FLOOR | |
| — | PRIVATE WALK OR DOOR SILL | |

| B.M. | ELEV. | DATE | APP. |
|------|---------------------------|--------|------|
| 2 | REVISED TO RECORD—PLOTTER | 03Nov4 | DID |
| 1 | SHEET NUMBERS REVISED | 03Mar4 | DID |
| NO | REVISIONS | DATE | APP. |

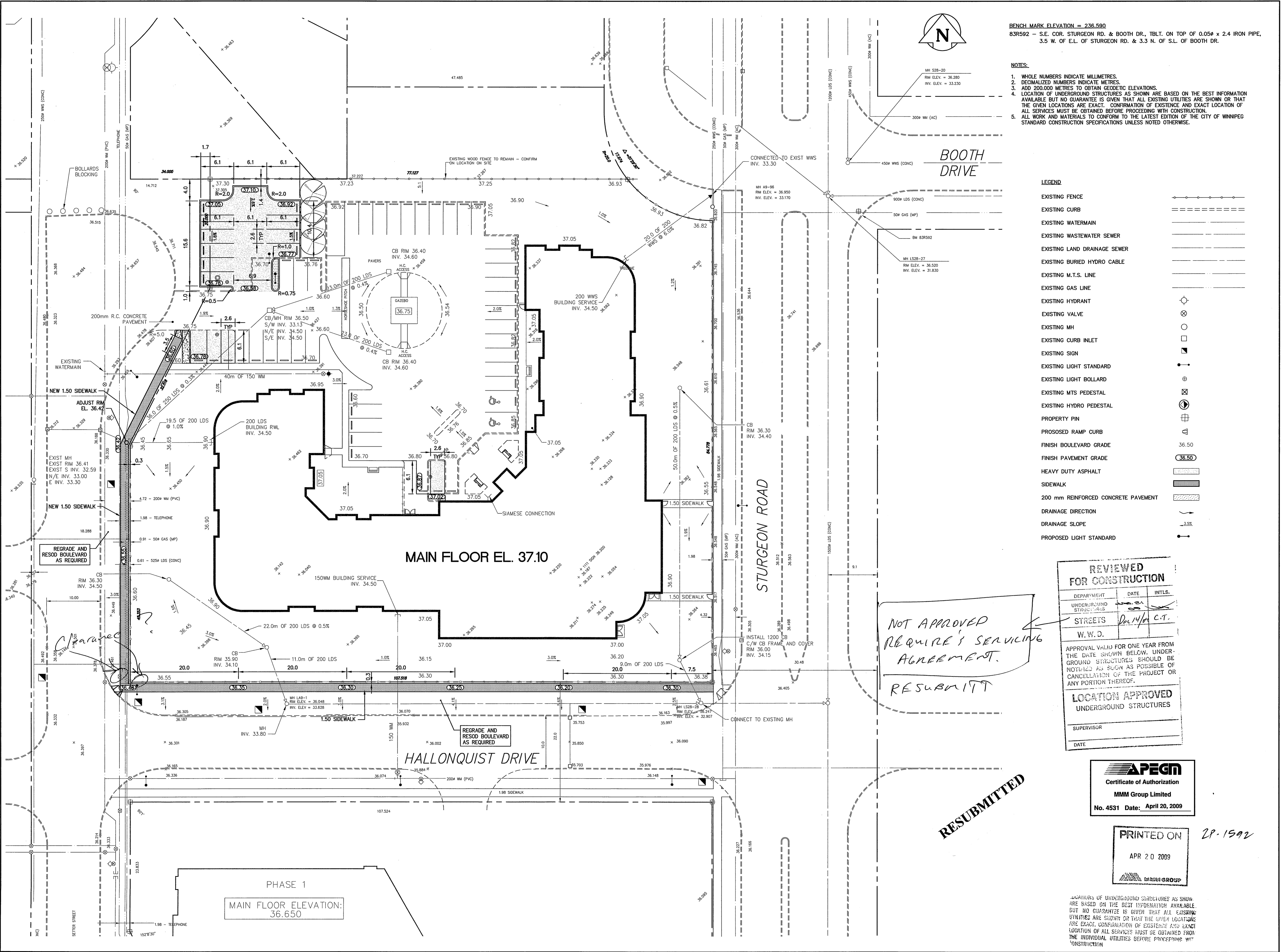
| | |
|---|---------------------------|
| UMA Engineering Ltd. | |
| • Consulting • Engineering • Construction • Management Services | |
| DESIGNED BY N.M./R.P.B. | CHECKED BY R.P.B. |
| DRAWN BY J.G./D.I.D./T.J. | APPROVED BY R.P.B. |
| HOR. SCALE: 1:250 | RELEASED FOR CONSTRUCTION |
| VERTICAL: 1:20 | DATE: |

ENGINEER'S SEAL
PROVINCE OF MANITOBA
R.P. BRUCE
REGISTERED PROFESSIONAL ENGINEER

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

2002 PEDESTRIAN AND CYCLE FACILITIES
STURGEON ROAD
PROPOSED CONCRETE SIDEWALK
WEST SIDE OF STURGEON RD.
BETWEEN A POINT APPROX. 72m NORTH OF
THE NORTH R. OF NESS AVE. & WOODGREEN PL.

SHEET 8 OF 9
DRAWING NO. W-322



BENCH MARK ELEVATION = 236.590
 83R592 - S.E. COR. STURGEON RD. & BOOTH DR., TBLT. ON TOP OF 0.05ø x 2.4 IRON PIPE, 3.5 W. OF E.L. OF STURGEON RD. & 3.3 N. OF S.L. OF BOOTH DR.

- NOTES:**
1. WHOLE NUMBERS INDICATE MILLIMETRES.
 2. DECIMALIZED NUMBERS INDICATE METRES.
 3. ADD 200.000 METRES TO OBTAIN GEODETIC ELEVATIONS.
 4. LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED BEFORE PROCEEDING WITH CONSTRUCTION.
 5. ALL WORK AND MATERIALS TO CONFORM TO THE LATEST EDITION OF THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS UNLESS NOTED OTHERWISE.

LEGEND

| | |
|-------------------------------------|-------|
| EXISTING FENCE | --- |
| EXISTING CURB | --- |
| EXISTING WATERMAIN | --- |
| EXISTING WASTEWATER SEWER | --- |
| EXISTING LAND DRAINAGE SEWER | --- |
| EXISTING BURIED HYDRO CABLE | --- |
| EXISTING M.T.S. LINE | --- |
| EXISTING GAS LINE | --- |
| EXISTING HYDRANT | ⊙ |
| EXISTING VALVE | ⊗ |
| EXISTING MH | ⊙ |
| EXISTING CURB INLET | ⊙ |
| EXISTING SIGN | ⊙ |
| EXISTING LIGHT STANDARD | ⊙ |
| EXISTING LIGHT BOLLARD | ⊙ |
| EXISTING MTS PEDESTAL | ⊙ |
| EXISTING HYDRO PEDESTAL | ⊙ |
| PROPERTY PIN | ⊙ |
| PROPOSED RAMP CURB | --- |
| FINISH BOULEVARD GRADE | 36.50 |
| FINISH PAVEMENT GRADE | 36.50 |
| HEAVY DUTY ASPHALT | --- |
| SIDEWALK | --- |
| 200 mm REINFORCED CONCRETE PAVEMENT | --- |
| DRAINAGE DIRECTION | --- |
| DRAINAGE SLOPE | --- |
| PROPOSED LIGHT STANDARD | --- |

REVIEWED FOR CONSTRUCTION

| | | |
|------------------------|-----------|--------|
| DEPARTMENT | DATE | INTLS. |
| UNDERGROUND STRUCTURES | | |
| STREETS | Dec 14/09 | C.T. |
| W. W. D. | | |

APPROVAL VALID FOR ONE YEAR FROM THE DATE SHOWN BELOW. UNDERGROUND STRUCTURES SHOULD BE NOTIFIED AS SOON AS POSSIBLE OF CANCELLATION OF THE PROJECT OR ANY PORTION THEREOF.

LOCATION APPROVED UNDERGROUND STRUCTURES

SUPERVISOR _____
 DATE _____

APEGN
 Certificate of Authorization
 MMM Group Limited
 No. 4531 Date: April 20, 2009

PRINTED ON
 APR 20 2009
 GARDNER GROUP

LOCATIONS OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

| | | |
|-----|---------------------------|-------------|
| 2. | CITY REVIEW | APRIL 20-09 |
| 1. | SIDEWALK AND GRADES ADDED | JULY 29-08 |
| NO. | REVISION | DATE |

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 It is not to be reproduced in any form whatsoever without written consent of the Architect.
 Do not scale this drawing.

CONSULTANTS
MMM GROUP
 Suite 111 - 93 Lombard Ave.
 Winnipeg, MB R3B 3B1
 1.204.943.3178
 1.204.943.4948
 www.mmm.ca

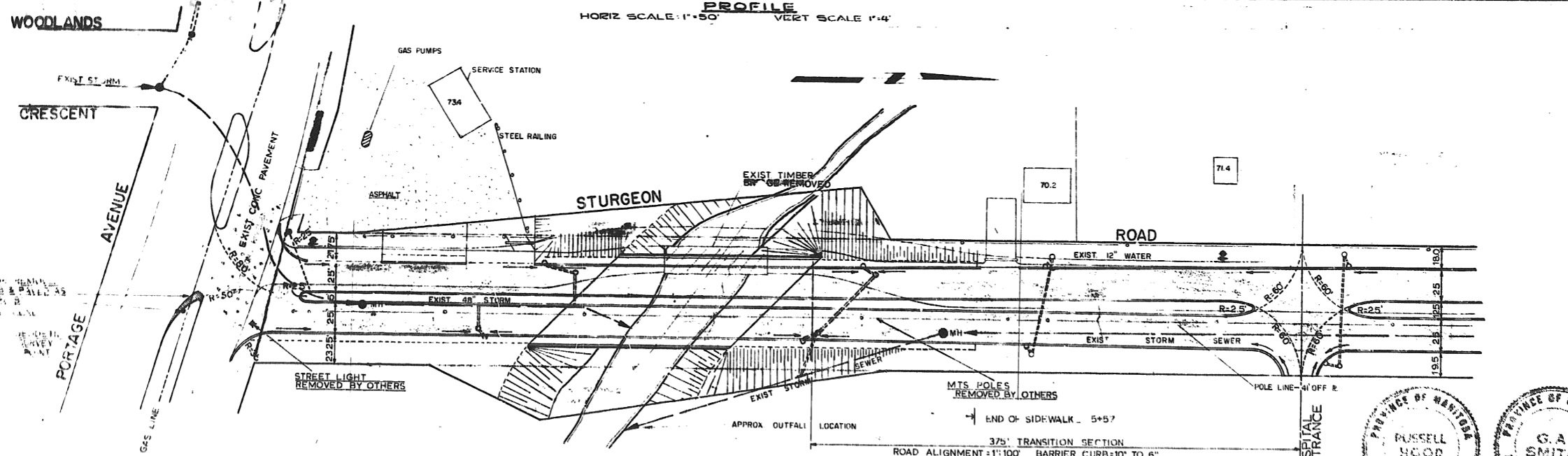
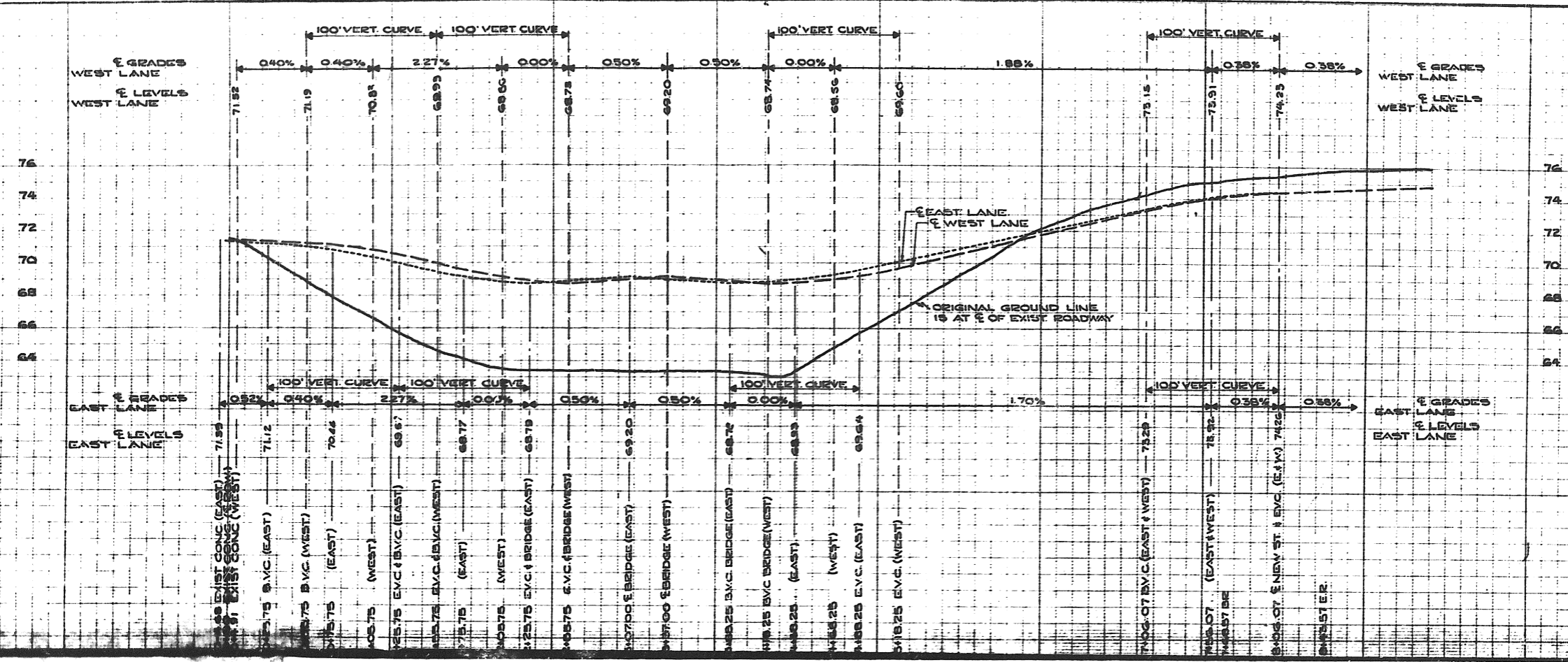


david watkin architect ltd.
 bus: 283-8438
 fax: 572-0714
 mob: 560-2572
 3800 point mackay rd. n.w. calgary, alberta t3b 5b8

PROJECT: STURGEON CREEK II R.R.
 CLIENT: WINNIPEG, MANITOBA
 ALL SENIORS CARE LIVING CENTRES

DRAWING: PARKING LOT EXPANSION SIDEWALK CONSTRUCTION
 FILE: 41464_002
 DATE: JULY 29 08
 DRAWING NO.: _____
 DRAWN: ED
 SCALE: 1:300

C-02



NOTES:

- CURB FROM PORTAGE AVENUE TO HOSPITAL ENTRANCE IS 10" BARRIER
- ALL RADII ARE 25FT TO BACK OF CURB UNLESS OTHERWISE INDICATED.
- MEDIAN FROM PORTAGE AVENUE TO HOSPITAL ENTRANCE WAS PAVED WITH 4" CONCRETE.
- C. OF ROADWAY OFFSET 0.75' WEST OF C. OF STREET RIGHT OF WAY

SCALE
1" = 50'

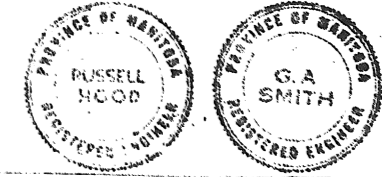
NOTES:

- JOINTS — CONFORM TO EXISTING JOINTS IN HIGHWAY
- NEW PAVEMENT — JOINED TO EXISTING PAVEMENT WITH AN APPROVED EPOXY BONDING AGENT TO THE MANUFACTURER'S SPECIFICATIONS

| DESCRIPTION | LEGEND | |
|------------------------------------|----------|----------|
| | EXISTING | PROPOSED |
| SANITARY SEWER & MH | | |
| STORM SEWER & MH | | |
| CATCH BASINS | | |
| WATER MAIN | | |
| GATE VALVE, CROSS OR TEE | | |
| FIRE HYDRANT (OFF LINE WITH VALVE) | | |
| FIRE HYDRANT (ON LINE) | | |
| SEWAGE FORCE MAIN | | |
| CURB STOP | | |
| CURB | | |
| AREA TO BE PAVED | | |
| DIRECTION OF DRAINAGE | | |
| SIDEWALK | | |

THE METROPOLITAN CORPORATION OF
GREATER WINNIPEG
STREETS AND TRAFFIC DEPARTMENT
STURGEON ROAD PAVING

PORTAGE AVENUE — HOSPITAL ENT.
RECORD DRAWING



APPROVED BY: *[Signature]*
STREETS AND TRAFFIC ENGINEER

13 BUILT
MARCH 1968

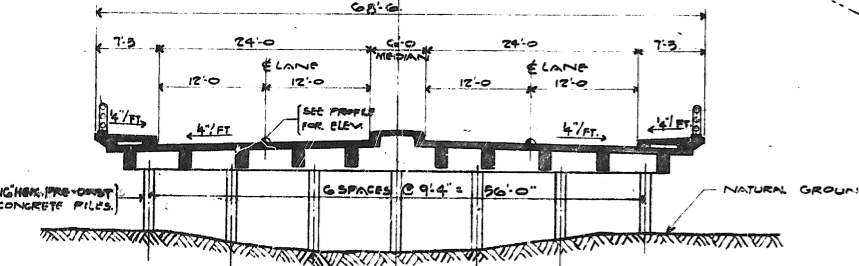
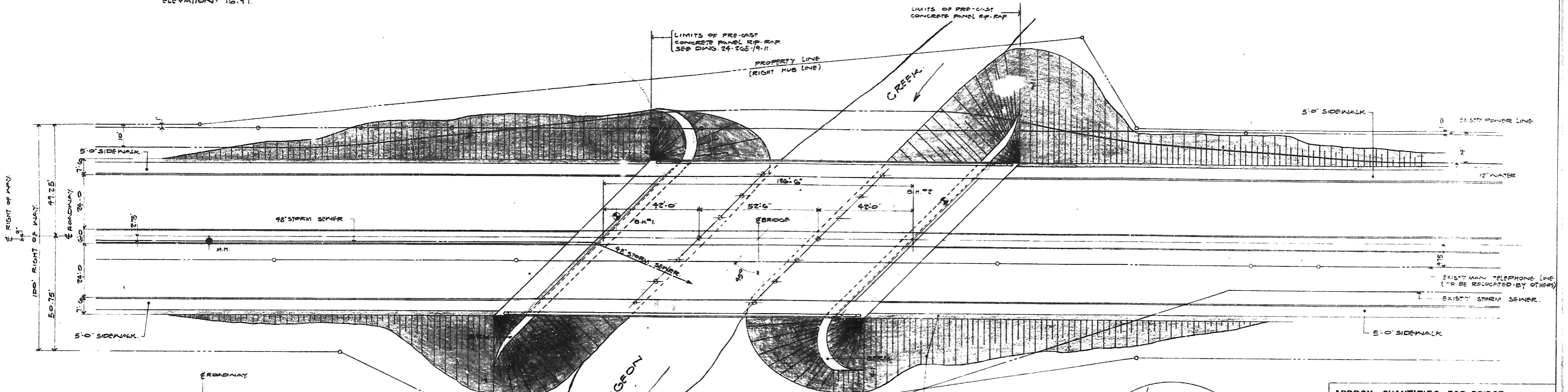
| NO | DESCRIPTION | DATE |
|----|-------------|------|
| | | |

DRAWN BY RKS
TRACED BY
CHECKED BY RFB
DESIGNED BY G.A.S.
LAYOUT BY
SHEET 2 OF 12
DATE 20/4/65
APPROVED BY *[Signature]*
DATE

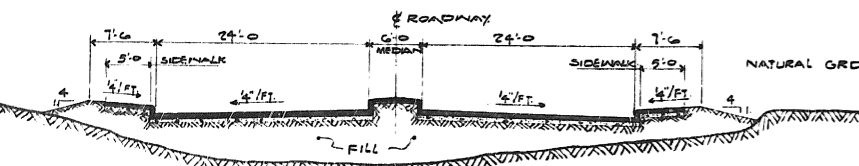
WOODS McLELLAN & ASSOCIATES LIMITED
REGISTERED PROFESSIONAL ENGINEERS
CALGARY REGINA SASKATON
GARY REGINA SASKATON

SCALE AS SHOWN DWG NO 24-265-19-02

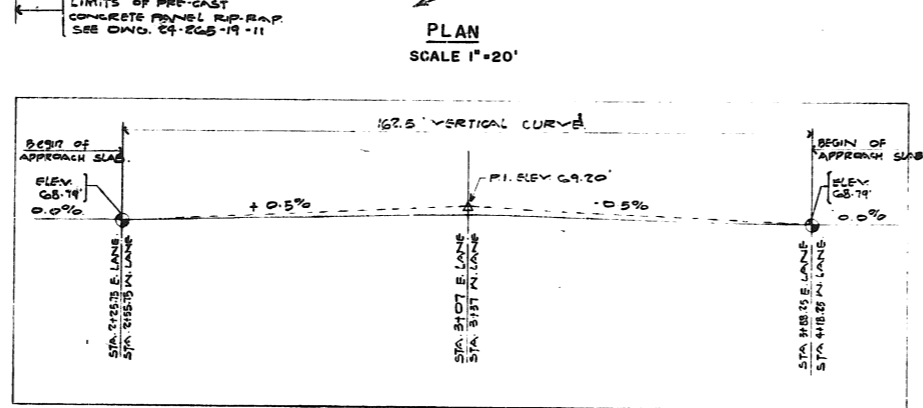
BENCH MARK - SOUTH WEST CORNER WOODLANDS CREST EAST AND PORTAGE AVE. - TOP OF HYDRANT, ELEVATION: 76.97.



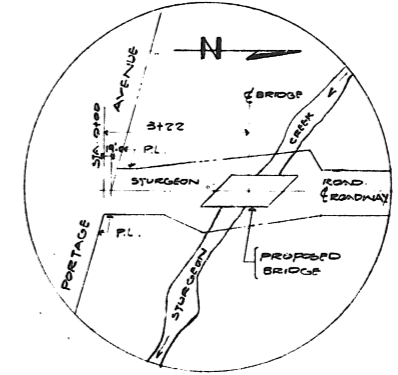
CROSS-SECTION THRU BRIDGE
SCALE 1"=10'



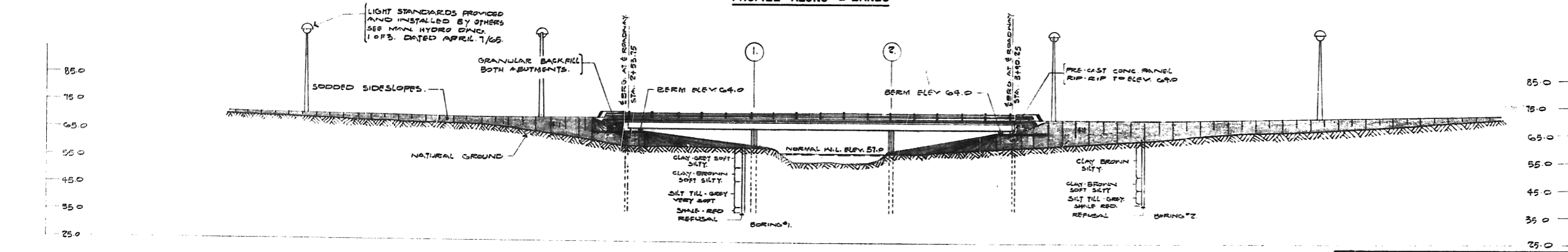
CROSS-SECTION THRU APPROACHES
SCALE 1"=10'



PROFILE ALONG LANES



LOCATION PLAN
SCALE 1"=200'



ELEVATION
SCALE 1"=20'

| APPROX. QUANTITIES FOR BRIDGE | |
|------------------------------------|--------------------------------|
| EMBANKMENT MATERIAL | 8,000 C.Y. |
| GRANULAR MATER | 160 C.Y. |
| PRE-CAST CONCRETE | (1) SUPPLY 980 LIN. FT. |
| | (5) DRIVE 780 LIN. FT. |
| REINFORCING STEEL - HIGH STRENGTH | 101,000 LBS. |
| | INTERMEDIATE GRADE 20,000 LBS. |
| CAST IN PLACE CONCRETE 2-1/2 STOPS | 555 C.Y. |
| PRE-CAST CONCRETE RIP-RAP | 950 S.Y. |
| SODDING | 1300 S.Y. |
| ALUMINUM HANDRAIL | 274 LIN. FT. |
| MISC. STEEL WORK | 900 LBS. |

- GENERAL NOTES**
- DESIGN SPECIFICATIONS AND S.D. 1961 (A.C.I. 215-65)
 - DESIGN LOADINGS HS 20-44 + IMPACT
 - CONCRETE: 3500 P.S.I. @ 28 DAYS ENTRAINED AIR 5 ± 1% MAX. AGGREGATE SIZE 1" UNLESS OTHERWISE NOTED.
 - REINFORCING STEEL: C.S.A. GR. 60 S.A. GR. 60 AS INDICATED DEFORMATIONS SHALL CONFORM TO C.S.A. GR. 60.
 - ALL MATERIAL TO BE SUPPLIED BY THE CONTRACTOR.
 - CLEAR COVER ON STEEL 2" EXCEPT AS FOLLOWS:
- 1" ON TOP TRANSVERSE SLAB STEEL
- 3" IN ALL FOOTINGS, ON INSIDE RACES OF ABUT WALLS
 - SOIL BORING DATA SHOWN ON DRAWINGS IS FOR GENERAL INFORMATION ONLY, AND THE OFFICE WILL NOT ACCEPT RESPONSIBILITY FOR ANY ERRORS OR INACCURACIES CONTAINED THEREIN.
 - APPROX. QUANTITIES SHOWN ARE FOR GENERAL INFORMATION ONLY. PAYMENT FOR ALL WORK SHALL BE AS OBTAINED IN THE SPECIFICATIONS.
 - FALSEWORK SHALL NOT BE REMOVED FROM UNDER SUPERSTRUCTURE UNTIL CASTING AND CURING OF CONCRETE HAS BEEN COMPLETED. THE DEAD LOAD SHALL BE TRANSFERRED BY THE LOOSENING OF JACKS.
 - ALL ELEVATIONS GIVEN ARE GEODETIC MINUS 1000.

THE METROPOLITAN CORPORATION OF
GREATER WINNIPEG

STREETS AND TRAFFIC DEPARTMENT

STURGEON ROAD BRIDGE
GENERAL LAYOUT

APPROVED BY: *[Signature]*
STREETS AND TRAFFIC ENGINEER

DRAWN BY: D. K.
TRACED BY:
CHECKED BY: R. E. P.
DESIGNED BY: J. P. D.
LAYOUT BY:

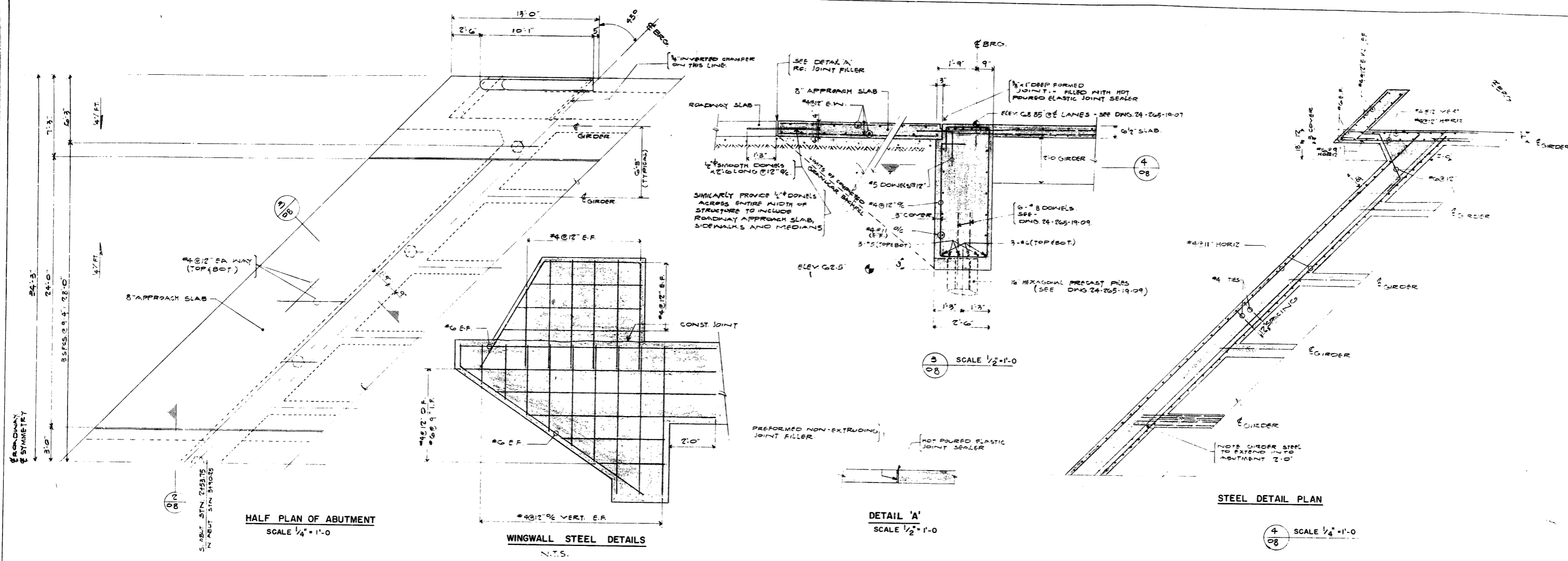
UNDERWOOD McLELLAN & ASSOCIATES LIMITED
CONSULTING PROFESSIONAL ENGINEERS
CALGARY REGINA SASKATOON WINNIPEG

SHEET 7 OF 12
APPROVED BY: *[Signature]* DATE: MAY 12/65

SCALE: AS SHOWN DWG. NO. 24-265-19-07



| NO. | DESCRIPTION | DATE | BY |
|-----|-------------|------|----|
| | | | |
| | | | |
| | | | |



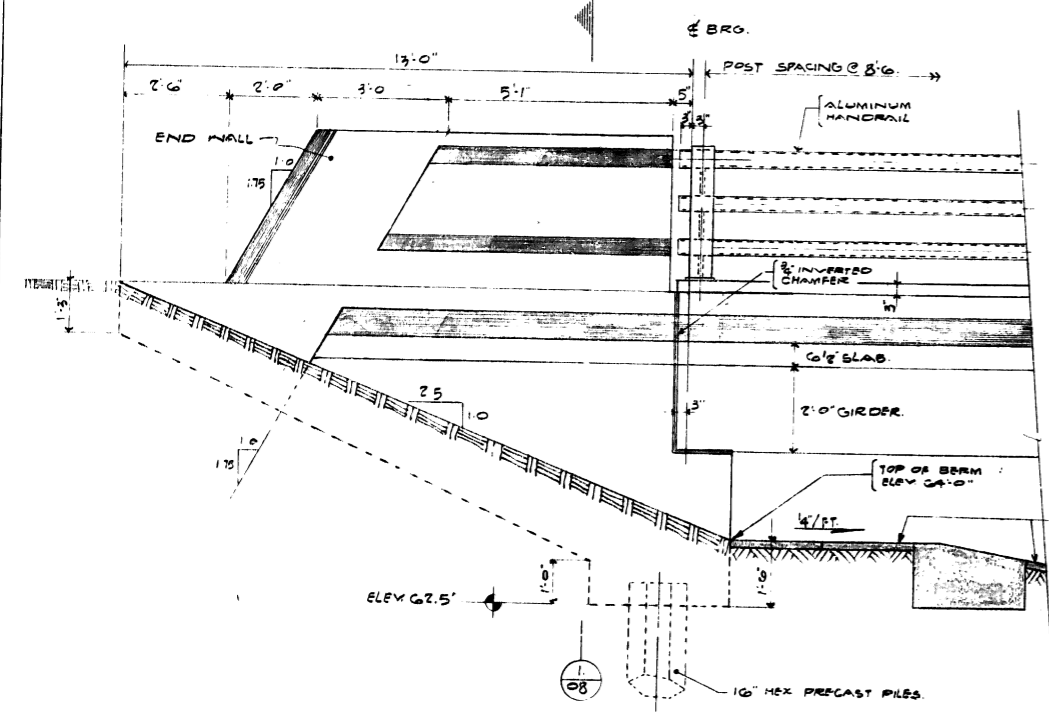
HALF PLAN OF ABUTMENT
SCALE 1/4" = 1'-0"

WINGWALL STEEL DETAILS
N.T.S.

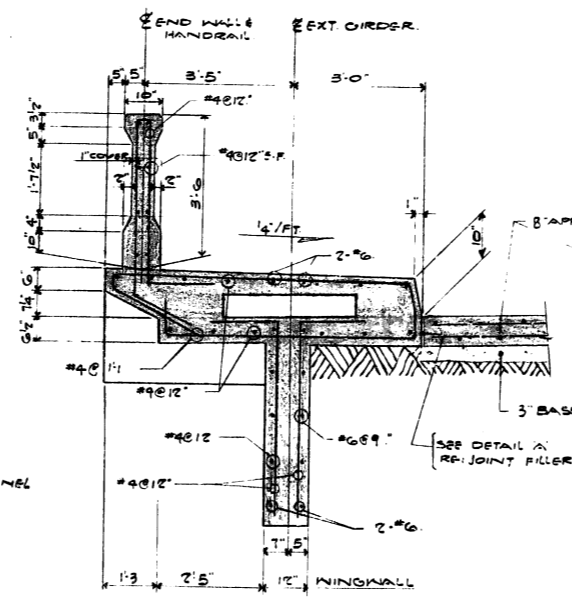
DETAIL 'A'
SCALE 1/2" = 1'-0"

STEEL DETAIL PLAN

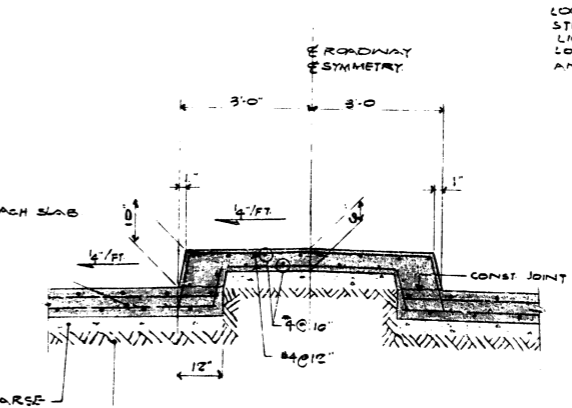
SCALE 1/4" = 1'-0"



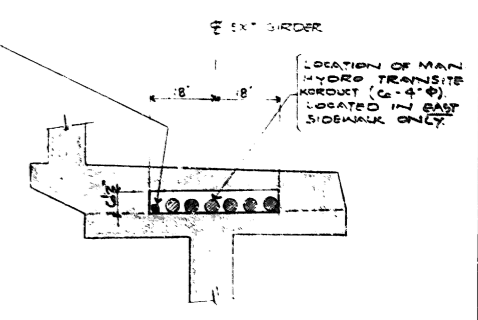
SIDE ELEVATION
SCALE 1/2" = 1'-0"



SCALE 1/2" = 1'-0"



SCALE 1/2" = 1'-0"



UTILITIES IN SIDEWALK
SCALE 1/2" = 1'-0"

NOTES
1. ALL REINFORCING STEEL SHOWN HEREON SHALL CONFORM TO EITHER C.S.A. C301 OR C.S.A. C3010



THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRAFFIC DEPARTMENT

STURGEON ROAD BRIDGE
ABUTMENT DETAILS

APPROVED BY: *[Signature]*
STREETS AND TRAFFIC ENGINEER

DRAWN BY: D.K.
CHECKED BY: R.E.P.
DESIGNED BY: J.P.D.
LAYOUT BY: *[Signature]*

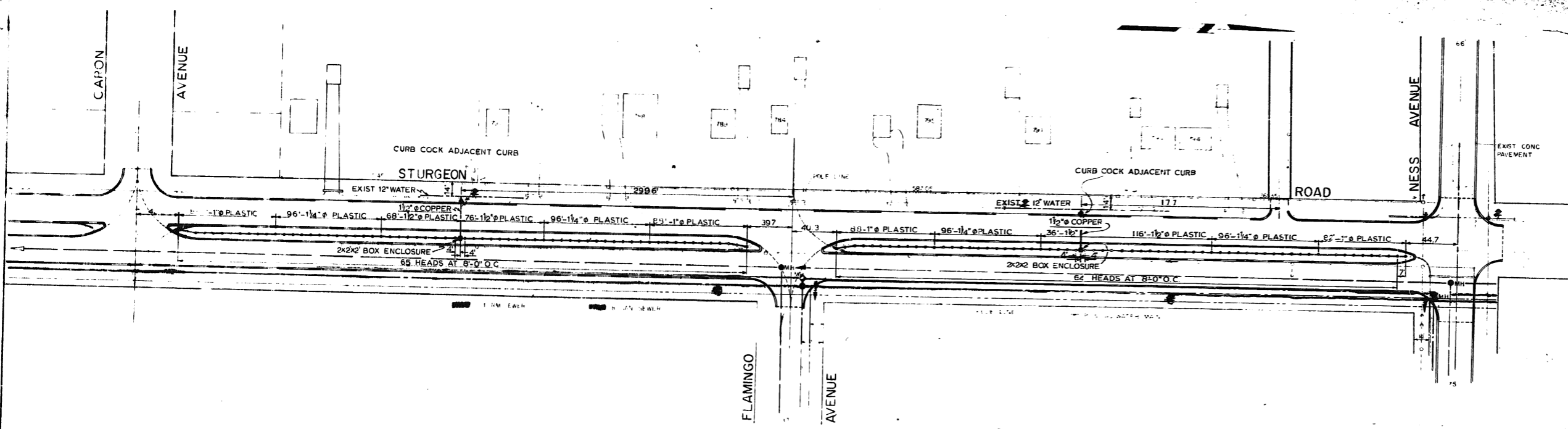
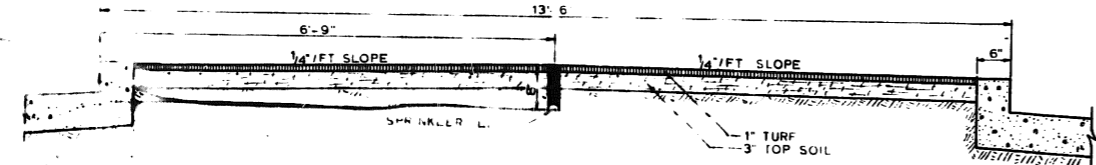
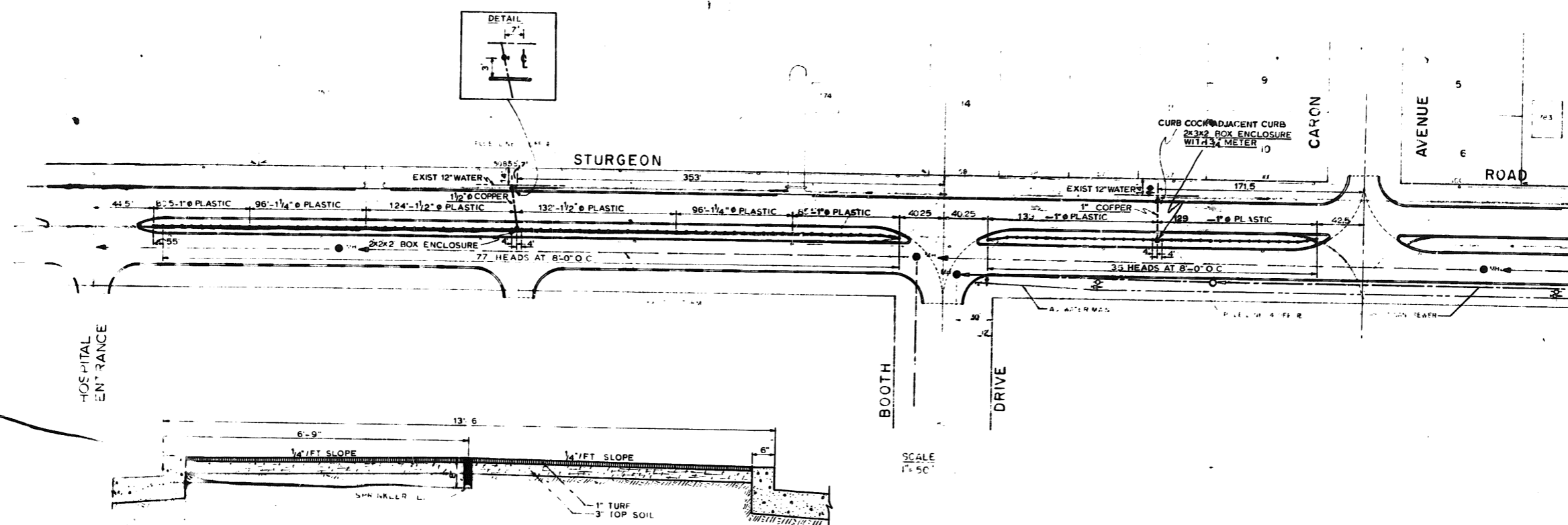
UNDERWOOD McLELLAN & ASSOCIATES LIMITED
CONSULTING PROFESSIONAL ENGINEERS
CALGARY REGINA SASKATOON WINNIPEG

MAY 12/65
DATE

SHEET 8 OF 12

SCALE: AS SHOWN DWG. NO. 24-265-19-08

| NO. | DESCRIPTION | DATE | BY |
|-----|-------------|------|----|
| | | | |
| | | | |
| | | | |
| | | | |



| DESCRIPTION | LEGEND |
|---------------------|--------|
| STURGEON ROAD | |
| EXIST 12\"/> | |
| EXIST CONC PAVEMENT | |

THE METROPOLITAN CORPORATION OF
GREATER WINNIPEG

STREETS AND TRAFFIC DEPARTMENT
STURGEON ROAD PAVING

SPRINKLER SYSTEM
RECORD DRAWING

APPROVED BY: *[Signature]*
STREETS AND TRAFFIC ENGINEER

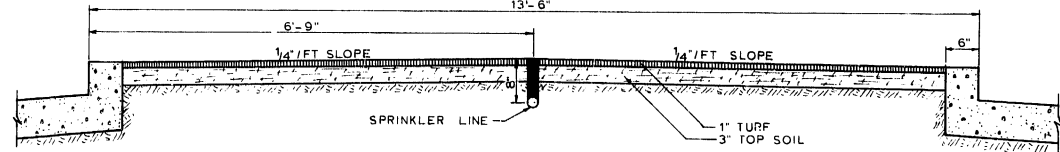
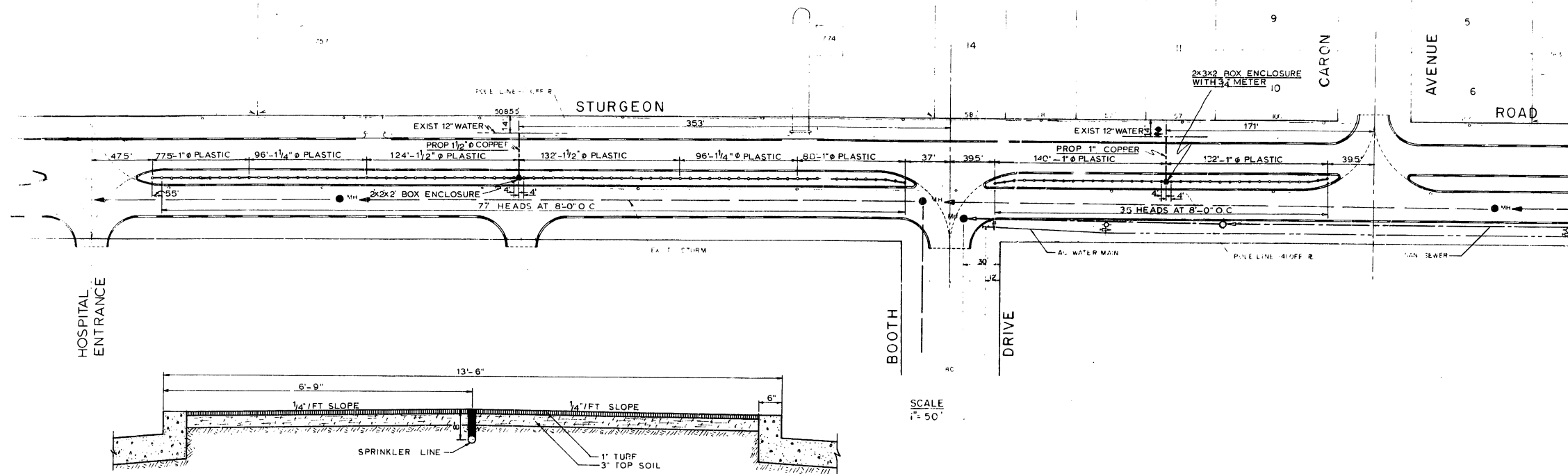
DRAWN BY RKS
CHECKED BY: *[Signature]*
DESIGNED BY G.S.
LAYOUT BY: *[Signature]*

PROFESSOR OF ENGINEERING
GARY REGINA SASKATOON WINNIPEG

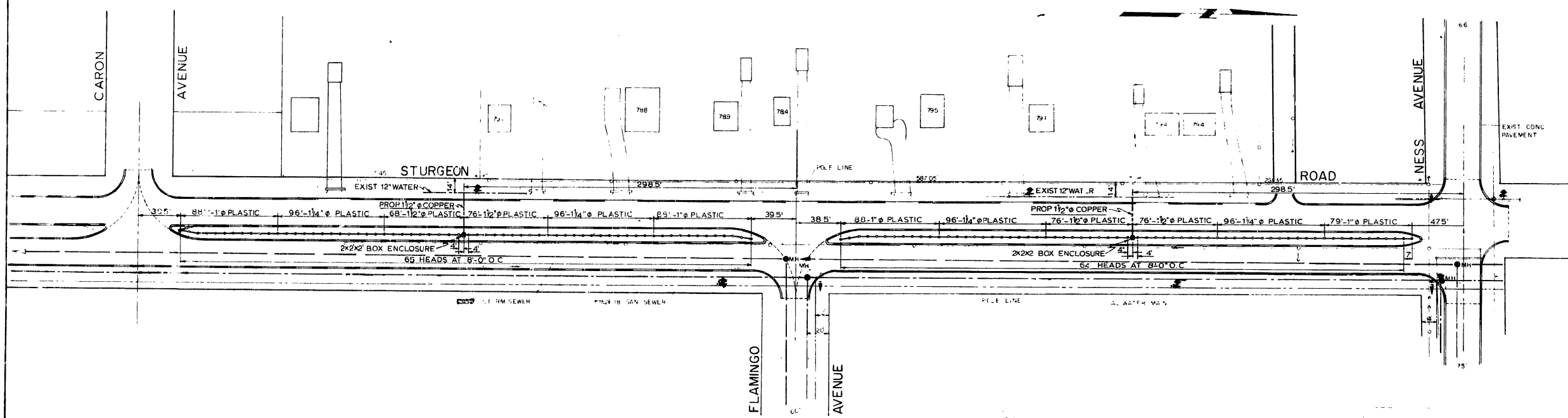
2014/65
DATE

SCALE AS SHOWN DWG NO 24-265-19-05 AB

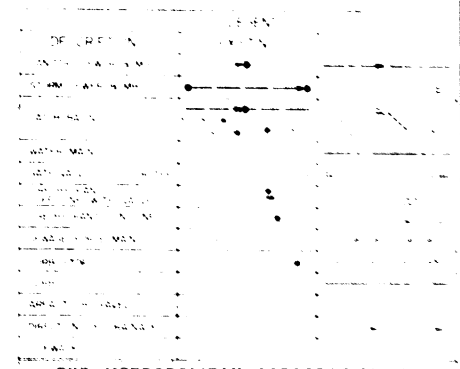




TYPICAL SECTION THROUGH SODDED MEDIAN

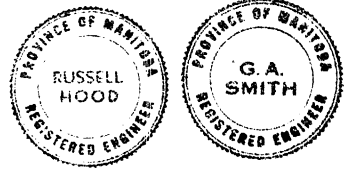


SCALE 1"=50'

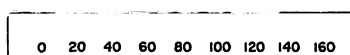


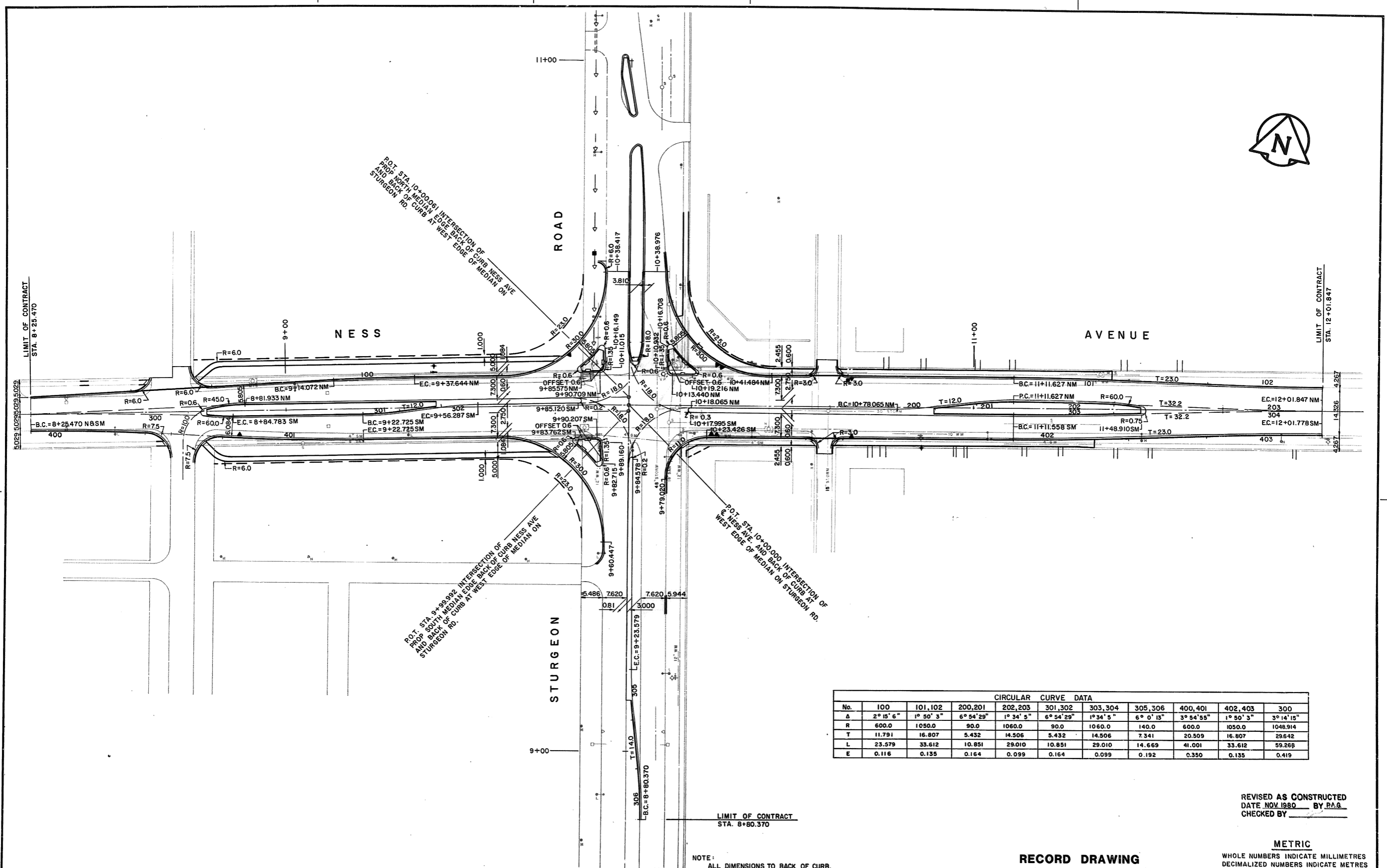
THE METROPOLITAN CORPORATION OF
GREATER WINNIPEG
STREETS AND TRAFFIC DEPARTMENT
STURGEON ROAD PAVING

SPRINKLER SYSTEM



APPROVED BY: *[Signature]*
 UNDERWOOD McLELLAN & ASSOCIATES LIMITED
 CONSULTING PROFESSIONAL ENGINEERS
 CALGARY REGINA SASKATOON WINNIPEG
 DATE: 20/4/65
 SHEET 5 OF 12
 SCALE AS SHOWN
 PROJECT NO. 24-265-19-05





| CIRCULAR CURVE DATA | | | | | | | | | | |
|---------------------|-----------|-----------|------------|-----------|------------|-----------|-----------|------------|-----------|------------|
| No. | 100 | 101,102 | 200,201 | 202,203 | 301,302 | 303,304 | 305,306 | 400,401 | 402,403 | 300 |
| A | 2° 15' 6" | 1° 50' 3" | 6° 54' 29" | 1° 34' 5" | 6° 54' 29" | 1° 34' 5" | 6° 0' 13" | 3° 54' 55" | 1° 50' 3" | 3° 14' 15" |
| R | 600.0 | 1050.0 | 90.0 | 1060.0 | 90.0 | 1060.0 | 140.0 | 600.0 | 1050.0 | 1048.914 |
| T | 11.791 | 16.807 | 5.432 | 14.506 | 5.432 | 14.506 | 7.341 | 20.509 | 16.807 | 29.642 |
| L | 23.579 | 33.612 | 10.851 | 29.010 | 10.851 | 29.010 | 14.669 | 41.001 | 33.612 | 59.268 |
| E | 0.116 | 0.135 | 0.164 | 0.099 | 0.164 | 0.099 | 0.192 | 0.350 | 0.135 | 0.419 |

REVISED AS CONSTRUCTED
DATE NOV 1980 BY P.A.G.
CHECKED BY _____

NOTE:
ALL DIMENSIONS TO BACK OF CURB.

RECORD DRAWING

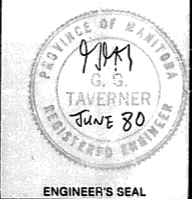
METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

WARNING
IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:
1.) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
2.) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.
SEE PROVINCIAL REGULATION 210/72 FOR DETAILS

LOCATION APPROVED
UNDERGROUND STRUCTURES COMMITTEE
June 20th 1980
Supr. U/G Structures Committee
LOCATIONS OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

| ITEM (PLAN) | | EXISTING | PROPOSED | ITEM (PLAN) | | EXISTING | PROPOSED |
|----------------------------|-----|----------|----------|-------------------|---|----------|----------|
| EDGE OF PAVEMENT (NO CURB) | --- | | --- | WATER VALVE | ○ | | ○ |
| EDGE OF PAVEMENT (CURBED) | --- | | --- | HYDRANT | ○ | | ○ |
| SIDEWALK | --- | | --- | MANHOLE | ○ | | ○ |
| PARALEPIC RAMP | --- | | --- | CATCH BASIN | ○ | | ○ |
| PROPERTY LINE | --- | | --- | CATCH BASIN INLET | ○ | | ○ |
| SEWER | --- | | --- | CULVERT | ○ | | ○ |
| HYDRO | --- | | --- | | | | |
| M.T.S. | --- | | --- | | | | |
| GAS | --- | | --- | | | | |
| WATER MAIN | --- | | --- | | | | |
| TRAFFIC SIGNALS | --- | | --- | | | | |

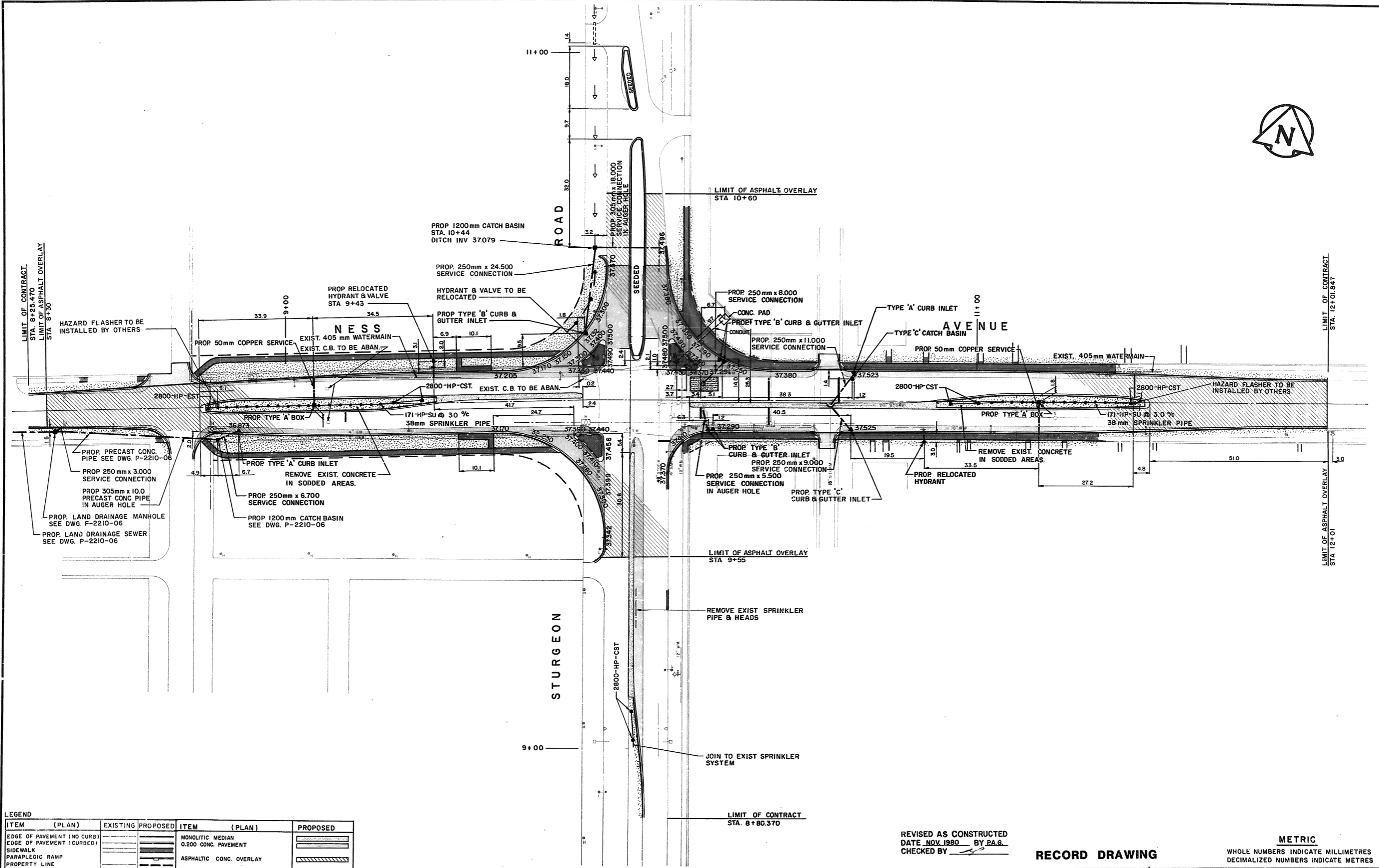
| NO. | REVISIONS | DATE | APP. |
|-----|----------------|---------|------|
| 1 | RECORD DRAWING | NOV/80 | |
| 2 | ADDENDUM No. 1 | 27/6/80 | |



the **uma** group
Underwood McLellan Ltd.
Consulting Engineers and Planners
DESIGNED BY: G.A.R.
DRAWN BY: J.M.B.
CHECKED BY: G.G.T.
DATE: MAY 1980
JOB No. 09-0265-171-02
APPROVED BY: *[Signature]* DATE: 6/6/80

THE CITY OF WINNIPEG
WORKS & OPERATIONS DEPARTMENT
STREETS AND TRANSPORTATION DIVISION

STURGEON ROAD & NESS AVENUE INTERSECTION IMPROVEMENT
HORIZONTAL ALIGNMENT
SCALE: 1:500
DRAWING NO: P-2210-02



| LEGEND | | EXISTING | PROPOSED | ITEM (PLAN) | PROPOSED |
|----------------------------|--|----------|----------|--|----------|
| EDGE OF PAVEMENT (NO CURB) | | | | MONOLITHIC MEDIAN | |
| EDGE OF PAVEMENT (CURBED) | | | | 0.200 CONC. PAVEMENT | |
| SIDEWALK | | | | ASPHALTIC CONC. OVERLAY | |
| PARAPLEGIC RAMP | | | | SODDING | |
| PROPERTY LINE | | | | PAVEMENT RENEWAL | |
| SEWER | | | | JOINT REPAIRS | |
| HYDRO | | | | SPRINKLER BOX | |
| M.T.S. | | | | RAINBIRD 171-HP-SU SPRINKLER HEAD OR APPROVED EQUIVALENT | |
| GAS | | | | RAINBIRD 2800-HP-EST SPRINKLER HEAD OR APPROVED EQUIVALENT | |
| WATER MAIN | | | | RAINBIRD 2800-HP-CST SPRINKLER HEAD OR APPROVED EQUIVALENT | |
| WATER VALVE | | | | | |
| HYDRANT | | | | | |
| MANHOLE | | | | | |
| CATCH BASIN | | | | | |
| CATCH BASIN INLET | | | | | |
| DITCH | | | | | |
| CULVERT | | | | | |
| ELEVATIONS | | 36.830 | 37.150 | | |

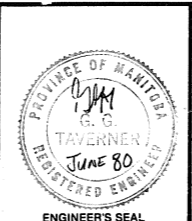
NOTE:
ALL DIMENSIONS TO BACK OF CURB.

WARNING
IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:
1.) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
2.) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.
SEE PROVINCIAL REGULATION 210/72 FOR DETAILS

LOCATION APPROVED
UNDERGROUND STRUCTURES COMMITTEE
David J. MacIntyre
Date: _____
Supv. U/G Structures Committee

LOCATIONS OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

| NO. | REVISIONS | DATE | APP. |
|-----|-------------------------------------|------|------|
| 1 | REVISED & ADDED C.B.G. I. | | |
| 2 | REVISED INTERSECTION GRADES 26/6/80 | | |



REVISED AS CONSTRUCTED
DATE NOV. 1980 BY P.A.G.
CHECKED BY _____

RECORD DRAWING

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

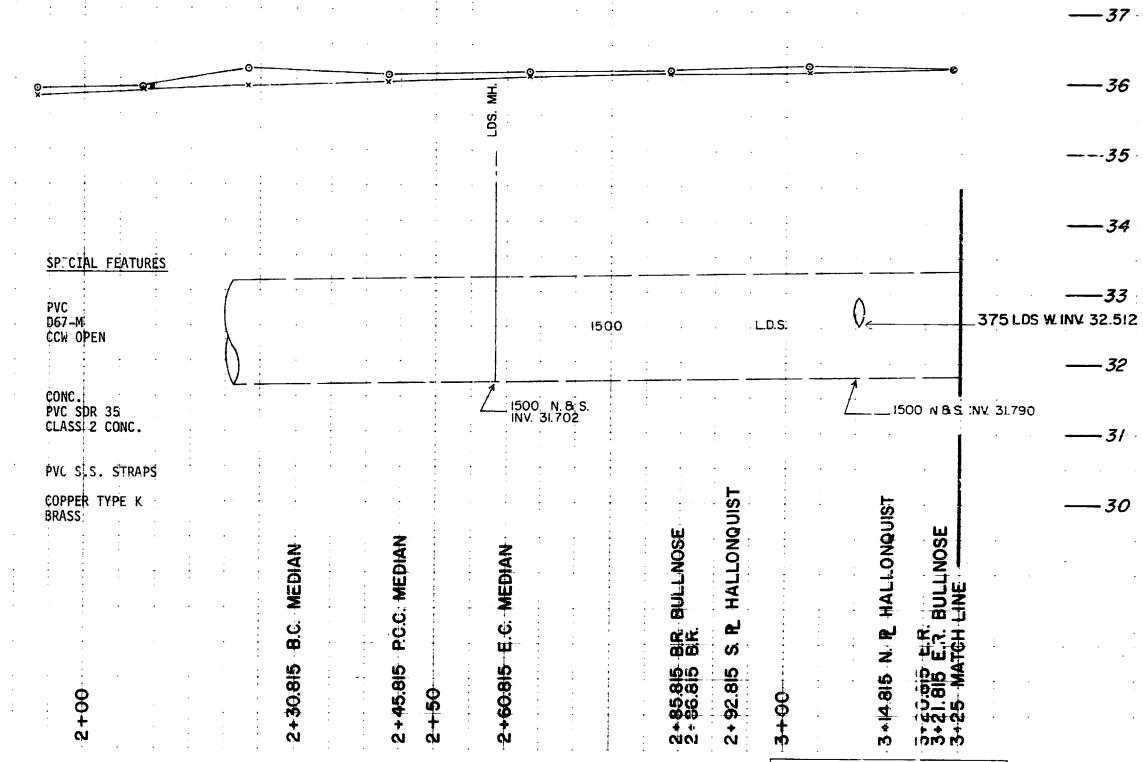
| | |
|--|---------------------|
| the uma Underwood McLellan Ltd. Consulting Engineers and Planners | |
| DESIGNED BY: G.A.R. | DRAWN BY: P.A.G. |
| CHECKED BY: G.G.T. | DATE: MAY 1980 |
| APPROVED BY: _____ | DATE: 6/6/80 |



| | |
|---|-----------------------|
| STURGEON ROAD & NESS AVENUE INTERSECTION IMPROVEMENT | |
| PAVEMENT & LANDSCAPING | |
| SCALE: 1:500 | DRAWING NO: P-2210-04 |

| ITEM | MANUFACTURER | MODEL OR SPECIFICATION | SPECIAL FEATURES |
|-----------------------------|--------------|------------------------|---------------------|
| 150 PIPE HYDRANTS | REHAU | AWMA C900 | PVC |
| GATE VALVES | DAIGLE | AWMA C500 | D67-M |
| VALVE BOXES | DAIGLE | AWMA C500 | CCW OPEN |
| FITTINGS | ITT GRINNELL | AWMA C110 | |
| LAND DRAINAGE PIPE | GENSTAR | ASTM C14-1 | CONC. |
| C.B. LEAD | REHAU | ASTM D-3014 | PVC SDR 35 |
| MANHOLES & C.B.s | GENSTAR | | CLASS 2 CONC. |
| MANHOLE COVERS | NORWOOD | CAST IRON | |
| SADDLES ON CONC. PIPE | NORWOOD | FOUNDRY | |
| WATER PIPE CORPORATION STOP | REHAU | NEOPRENE CASKET | PVC S.S. STRAPS |
| | EMCO | ASTM B88 | COPPER TYPE K BRASS |

CONTRACTOR: ROUREX/CAMBRIAN
CONSTRUCTION PERIOD: JULY TO SEPTEMBER, 1984
FIELD BOOK NO.: 8439



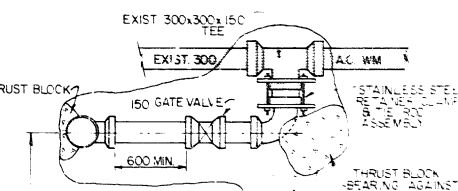
BRIDGE

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

- NOTES:
- 1- REMOVE EXIST. THRUST-BLOCK/HYDRANT/GATE VALVE ASS'Y. AND HAUL TO CITY YARD. INSTALL NEW OFFSET HYDRANT/GATE VALVE ASS'Y. AS SHOWN IN DETAIL 'A'.
 - 2- REMOVE & DISPOSE OF EXIST. BARRIER CURB AND DOWEL IN PROPOSED R.C. PAV'T.
 - 3- SAWCUT, REMOVE AND DISPOSE OF EXIST. PAV'T AND INSTALL 2000 C.B.
 - 4- REMOVE & DISPOSE OF EXISTING SPRINKLER LINE, BOX, AND SERVICE IN CONFLICT WITH PROPOSED WORKS, AS SHOWN ABANDON SPRINKLER SERVICE CONNECTION AT MAIN, AS SPECIFIED.
 - 5- MEDIAN TREES IN CONFLICT WITH PROPOSED WORKS TO BE RELOCATED BY OTHERS

MEDIAN LANE REVERSE CURVE DATA

| | |
|---|-----------|
| Δ | = 11° 25' |
| R | = 75.0 |
| S | = 7.58 |
| T | = 14.9 |
| E | = 0.37 |



RECORD DRAWING

| EXISTING | LEGEND - PLAN | PROPOSED | EXISTING | LEGEND - PROFILE | PROPOSED |
|---------------|---------------------|---------------|---------------------|---------------------|---------------------|
| 150 mm W.M. | WATERMAIN | 150 mm W.M. | HYDRO M.T.S. | 150 mm W.M. | WATERMAIN |
| 300 mm L.D.S. | LAND DRAINAGE SEWER | 300 mm L.D.S. | CONCRETE ASPHALT | 300 mm L.D.S. | LAND DRAINAGE SEWER |
| 250 mm W.W.S. | WASTE WATER SEWER | 250 mm W.W.S. | PROPERTY LINE | 250 mm W.W.S. | WASTE WATER SEWER |
| MANHOLE | MANHOLE | MANHOLE | SURVEY BAR | CONCRETE | CONCRETE |
| CATCH BASIN | CATCH BASIN | CATCH BASIN | LIGHT STANDARD | WEST GUTTER PROFILE | WEST R. PROFILE |
| CURB INLET | CURB INLET | CURB INLET | CURB STOP | | |
| JUNCTIONS | JUNCTIONS | JUNCTIONS | PAVEMENT ELEVATIONS | | |
| CULVERT | CULVERT | CULVERT | SPRINKLER LINE | | |
| GAS | GAS | GAS | | | |

| NO. | REVISIONS | DATE | BY |
|-----|--------------------------------|----------|-----|
| D | REV TO 85 RECORD DWG | 07/11/84 | bgd |
| C | REV TO RECORD DWG | 25/08/84 | EJB |
| B | ADDED SIDEWALK | 10/09/84 | bgd |
| A | EXIST. WEST CURB TO BE REMOVED | | |
| A | EXIST. WEST CURB TO BE REMOVED | | |
| A | SIDEWALK ALIGNMENT | 09/17/84 | bgd |

ENGINEER'S SEAL

PROVINCE OF MANITOBA
B.T. WEBER
REGISTERED ENGINEER

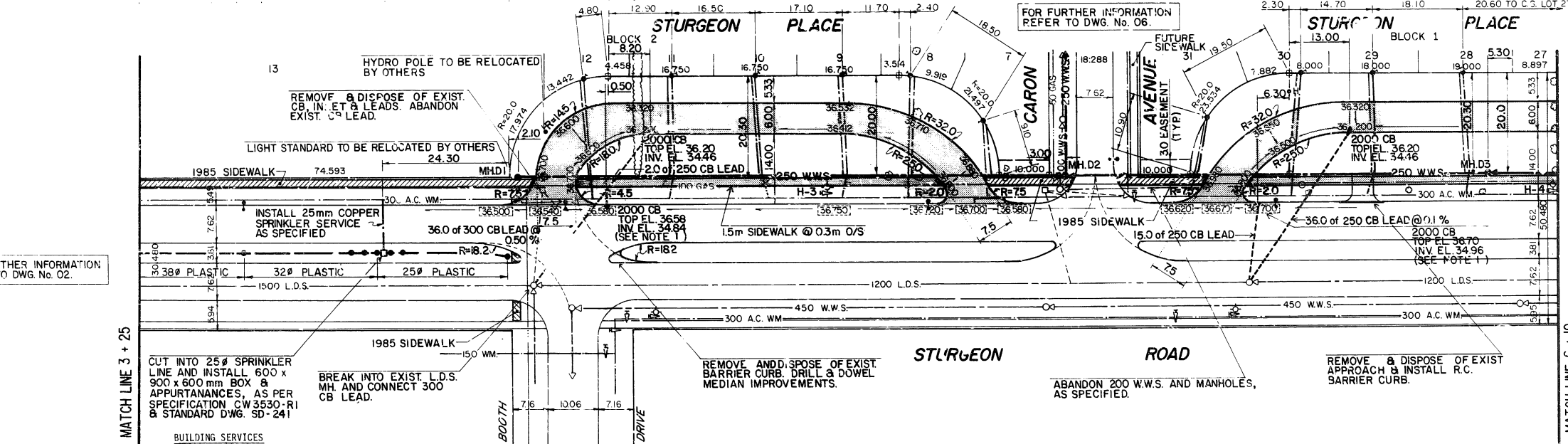
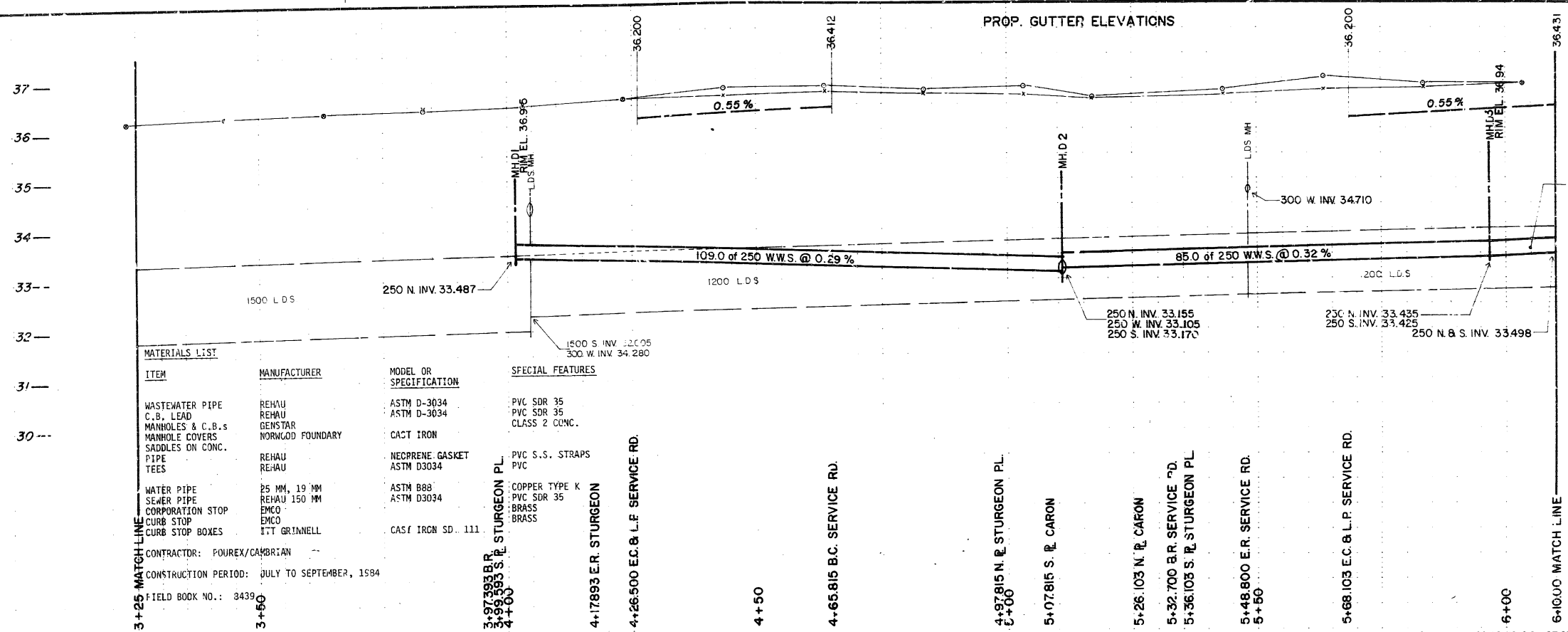
DESIGNED BY PEAL/BTW
CHECKED BY PCW
DRAWN BY LS/BGD
DATE MAY 1984
HOR. SCALE: 1:500
VERTICAL: 1:50
APPROVED BY [Signature]
DATE May 28/84

CONSULTANT PLAN NO. 02-0063-100-01

THE CITY OF WINNIPEG
WORKS AND OPERATIONS DIVISION
OPERATIONS DEPARTMENT - DISTRICT 2

STURGEON PLACE DEVELOPMENT
UNDERGROUND SERVICES AND PAVING
BRIDGE TO MATCH LINE 3 + 25

RELEASED FOR CONSTRUCTION
DISTRICT ENGINEER
DATE 02/01/84
PLAN NO. 02

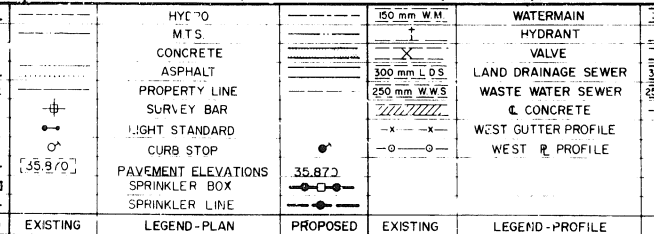
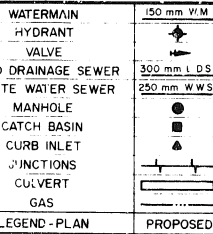


METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

| LOCATION | WASTEWATER JUNCTION | CORPORATION STOP |
|----------|---------------------|------------------|
| STURGEON | | |
| 2 | 7 94.70 | D1 N 34.25 |
| 2 | 8 78.80 | D1 N 34.20 |
| 2 | 9 64.70 | D1 N 34.10 |
| 2 | 10 48.30 | D1 N 34.01 |
| 2 | 11 30.30 | D1 N 33.95 |
| 2 | 12 11.40 | D1 N 34.03 |
| 3 | 28 80.50 | D2 N 34.20 |
| 3 | 29 61.60 | D2 N 34.12 |
| 3 | 30 45.00 | D2 N 34.11 |
| 3 | 31 25.70 | D2 N 34.37 |

NOTE: ABANDON EXIST. BLDG. SERVICES & INSTALL NEW SERVICES AS SPECIFIED.

ALL 1985 CONSTRUCTION OF SIDEWALK SHOWN THUS



LOCATION APPROVED UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE

DATE

LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN AND EXACT LOCATIONS OF ALL UNDERGROUND INCLUDING SERVICE CONNECTIONS MUST BE CHECKED WITH THE UTILITY CONCERNED BEFORE PROCEEDING WITH CONSTRUCTION.

| NO. | REVISIONS | DATE | BY |
|-----|-------------------------|---------|-----|
| D | REV. TO '85 RECORD DWG. | Nov 85 | bgd |
| C | REV. TO RECORD DWG | 24/1/84 | FJB |
| B | ADD. EXIST. UTILITIES | 10/1/84 | bgd |
| A | HAND REVISIONS DETAILED | | |
| A | Signoff Assessment | 2/1/84 | bgd |

the uma group
Underwood McLellan Ltd.
Consulting Engineers and Planners

DESIGNED BY: FEAL/BTW
DRAWN BY: JWT

CHECKED BY: PEAL
DATE: MAY 1984

APPROVED BY: *Donna Hoar*
DATE: May 28/84

HOR SCALE: 1:500
VERTICAL SCALE: 1:50

PROVINCE OF MANITOBA
B.T.
WEBER
REGISTERED ENGINEER

PROVINCE OF MANITOBA
P.E.A.
LAGASSE
REGISTERED ENGINEER

CONSULTANT PLAN NO: 02-0063-10(1-01)

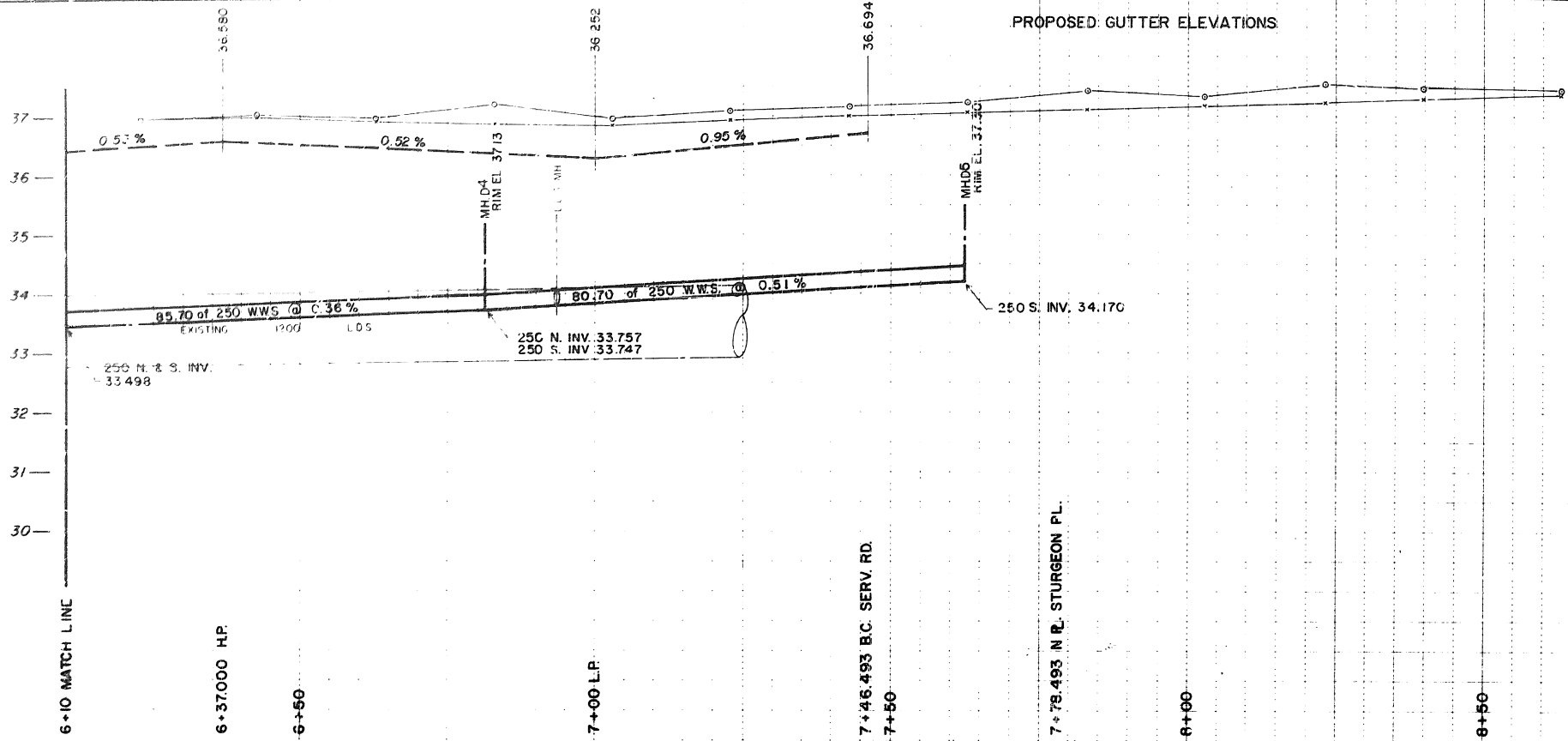
THE CITY OF WINNIPEG
WORKS AND OPERATIONS DIVISION
OPERATIONS DEPARTMENT - DISTRICT 2

STURGEON PLACE DEVELOPMENT
UNDERGROUND SERVICES AND PAVING
STURGEON ROAD

RELEASED FOR CONSTRUCTION
DATE: 2002.12.18
DISTRICT ENGINEER

PLAN NO: 03

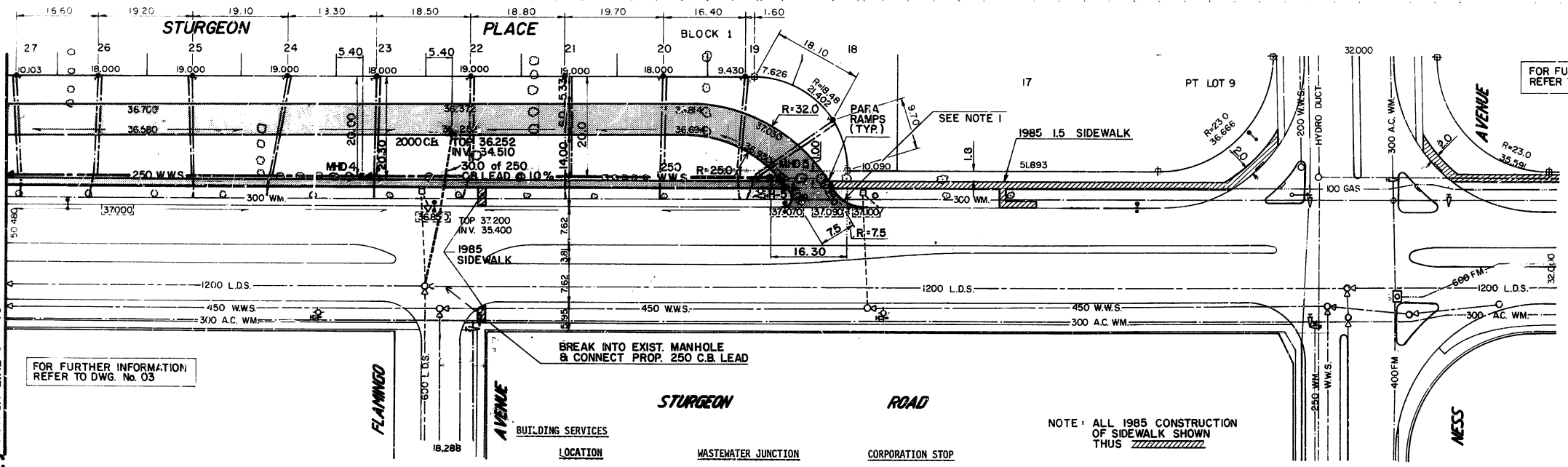
MATCH LINE 3 + 25 TO MATCH LINE 6 + 10



MATERIALS LIST

| ITEM | MANUFACTURER | MODEL OR SPECIFICATION | SPECIAL FEATURES |
|----------------------------------|------------------|------------------------|------------------|
| WASTEWATER PIPE | REHAU | ASTM D-3034 | PVC SDR 35 |
| C.B. LEAD | REHAU | ASTM D-3034 | PVC SDR 35 |
| MANHOLES & C.B. SADDLES ON CONC. | GENSTAR | CAST IRON | CLASS 2 CONC. |
| PIPE TEES | NORWOOD FOUNDARY | CAST IRON | |
| NEOPRENE GASKET | REHAU | ASTM D3034 | PVC S.S. STRAPS |
| WATER PIPE | REHAU | ASTM D3034 | PVC |
| SEWER PIPE | 19 MM | ASTM D3034 | COPPER TYPE K |
| CORPORATION STOP | EMCO | ASTM D3034 | PVC SDR 35 |
| CURB STOP | EMCO | CAST IRON SD. 111 | BRASS |
| CURB STOP BOXES | ITT GRINNELL | | BRASS |

CONTRACTOR: POUREX/CAMBREAN
 CONSTRUCTION PERIOD: JULY TO SEPTEMBER, 1984
 FIELD BOOK NO.: 8439



BUILDING SERVICES

| STREET | BLOCK | LOT | DIST. FROM MANHOLE | MANHOLE NO. | INVERT AT P.L. | DIST. FROM HYDRANT | HYDRANT NO. |
|----------|-------|-----|--------------------|-------------|----------------|--------------------|-------------|
| STURGEON | 3 | 18 | 79.20 | D4 N | 34.76 | 149.30 | 4 |
| | 3 | 19 | 75.40 | D4 N | 34.57 | 147.90 | 4 |
| | 3 | 20 | 59.10 | D4 N | 34.13 | 132.10 | 4 |
| | 3 | 21 | 40.80 | D4 N | 34.27 | 113.20 | 4 |
| | 3 | 22 | 22.10 | D4 N | 33.38 | 92.60 | 4 |
| | 3 | 23 | 2.60 | D4 N | 34.01 | 75.00 | 4 |
| | 3 | 24 | 67.60 | D3 N | 34.10 | 53.60 | 4 |
| | 3 | 25 | 51.40 | D3 N | 34.13 | 38.70 | 4 |
| | 3 | 26 | 32.30 | D5 N | 34.27 | 17.70 | 4 |
| | 3 | 27 | 16.30 | D3 N | 34.13 | 3.80 | 4 |

NOTE: ALL 1985 CONSTRUCTION OF SIDEWALK SHOWN THUS

NOTE: REMOVE & DISPOSE OF EXIST. BARRIER CURB AND DOWEL IN PROPOSED R.C. PAVT.



April 26 1984
RECORD DRAWING

METRIC
 WHOLE NUMBERS INDICATE MILLIMETRES
 DECIMALIZED NUMBERS INDICATE METRES

NOTE: DETERMINE LOCATION OF UNDERGROUND UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

WARNING: READ THIS BEFORE YOU BEGIN WORK. IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR THE EXCAVATION AND PERMITTED BY THE ATTACHED PERMIT, NO WORK SHALL BE COMMENCED BEFORE: (1) THE LOCAL OFFICE OF THE GAS COMPANY HAS BEEN NOTIFIED OF THE PROPOSED EXCAVATION, AND (2) THE GAS COMPANY HAS MARKED OUT THE LOCATION OF ANY ENHANCED GAS INSTALLATIONS, OR THE GAS COMPANY HAS ADVISED THAT NO GAS INSTALLATIONS WILL BE ENHANCED BY THE PROPOSED EXCAVATION. FOR SPECIFIC DETAILS REFER TO MANITOBA REGULATIONS 216/72 MADE UNDER THE GAS PIPE LINE ACT.

| EXISTING | LEGEND - PLAN | PROPOSED | EXISTING | LEGEND - PLAN | PROPOSED | EXISTING | LEGEND - PROFILE | PROPOSED |
|----------|---------------------|----------|----------|---------------|----------|----------|------------------|----------|
| | WATERMAIN | | | HYDRO | | | WATERMAIN | |
| | HYDRANT | | | CONCRETE | | | PROPERTY LINE | |
| | LAND DRAINAGE SEWER | | | MANHOLE | | | CURB INLET | |
| | WASTE WATER SEWER | | | CULVERT | | | GAS | |

LOCATION APPROVED UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE

DATE: _____

LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN AND EXACT LOCATIONS OF ALL UNDERGROUND INCLUDING SERVICE CONNECTIONS MUST BE CHECKED WITH THE UTILITY CONCERNED BEFORE PROCEEDING WITH CONSTRUCTION.

| NO. | REVISIONS | DATE | BY |
|-----|---|----------|-----|
| C | REV. TO RECORD DWG. | Nov 85 | EJB |
| C | REV. TO RECORD DWG. | 24/10/84 | EJB |
| B | ADD EXIST. SIDEWALK | 10/10/84 | bad |
| A | AND RELOCATION DELETED SIDEWALK ALONG WEST SIDE OF STURGEON PLACE | 03/10/84 | bad |

the umc group
 Underwood McLellan Ltd.
 Consulting Engineers and Planners

DESIGNED BY: PEAL
 CHECKED BY: PEAL
 DRAWN BY: LS/BGD
 DATE: MAY 1984

HOR. SCALE: 1:50
 VERTICAL: 1:50

APPROVED BY:

DATE: May 28/84

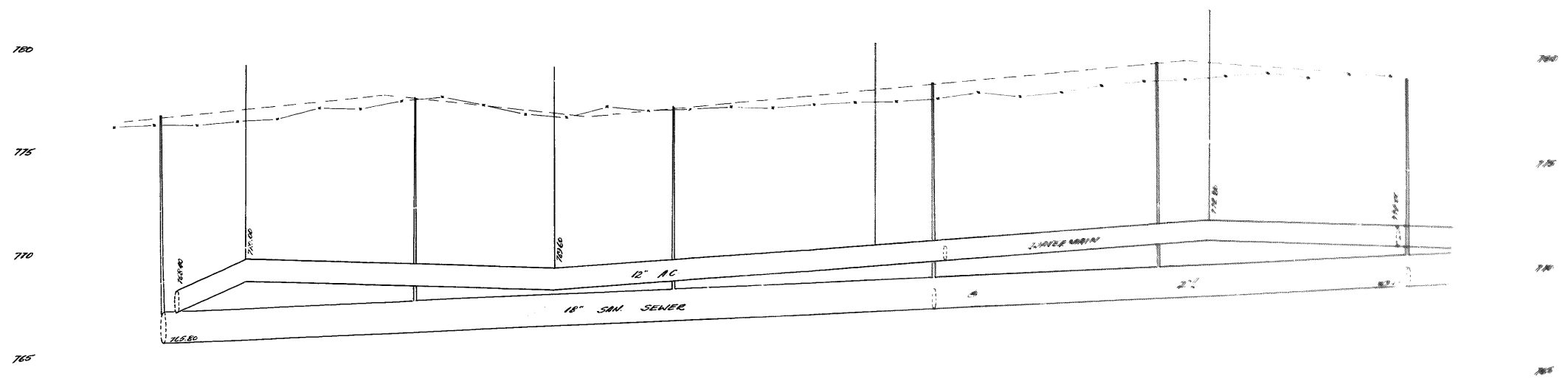
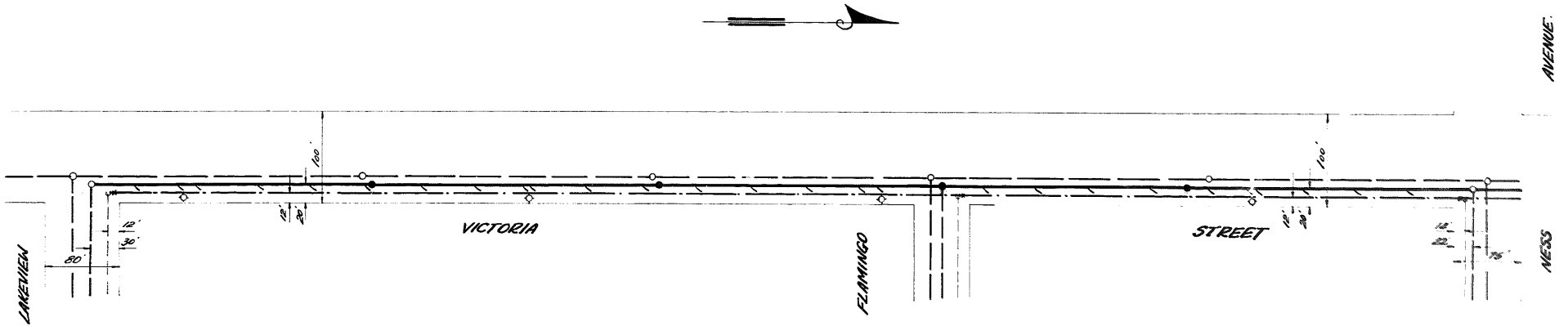


THE CITY OF WINNIPEG
 WORKS AND OPERATIONS DIVISION
 OPERATIONS DEPARTMENT - DISTRICT 2

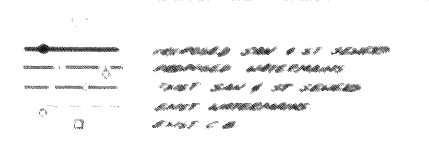
STURGEON PLACE DEVELOPMENT
 UNDERGROUND SERVICES AND PAVING
 STURGEON PLACE

MATCH LINE 6 + 10 TO NESS AVE.

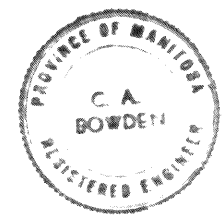
RELEASED FOR CONSTRUCTION: _____
 DISTRICT ENGINEER
 DATE: 2008 11 27
 PLAN NO. 04



- 1. INTERSECTION ELEVATION ON TOP OF PIPE
- 2. INVERT OF THE 12\"/>
- 3. INTERSECTION ELEVATION ON TOP OF MAIN



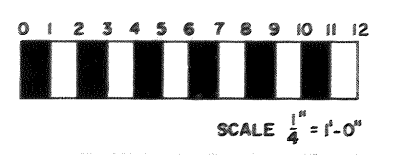
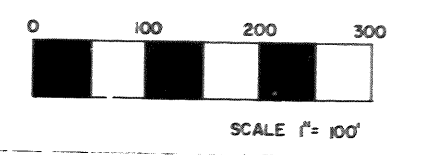
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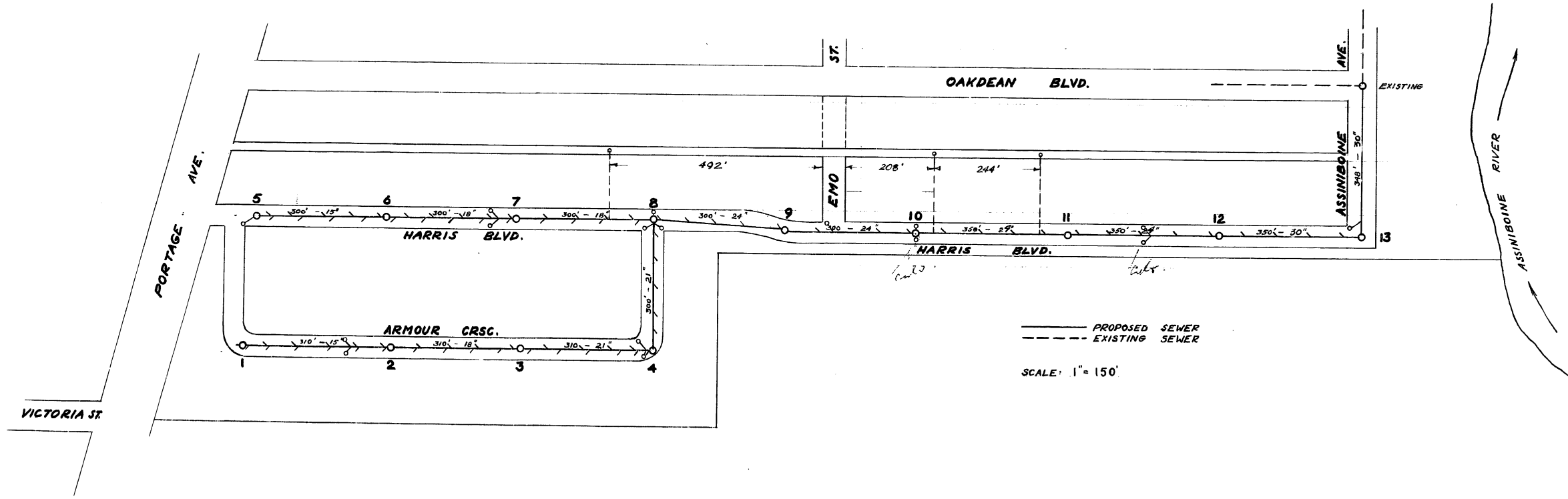
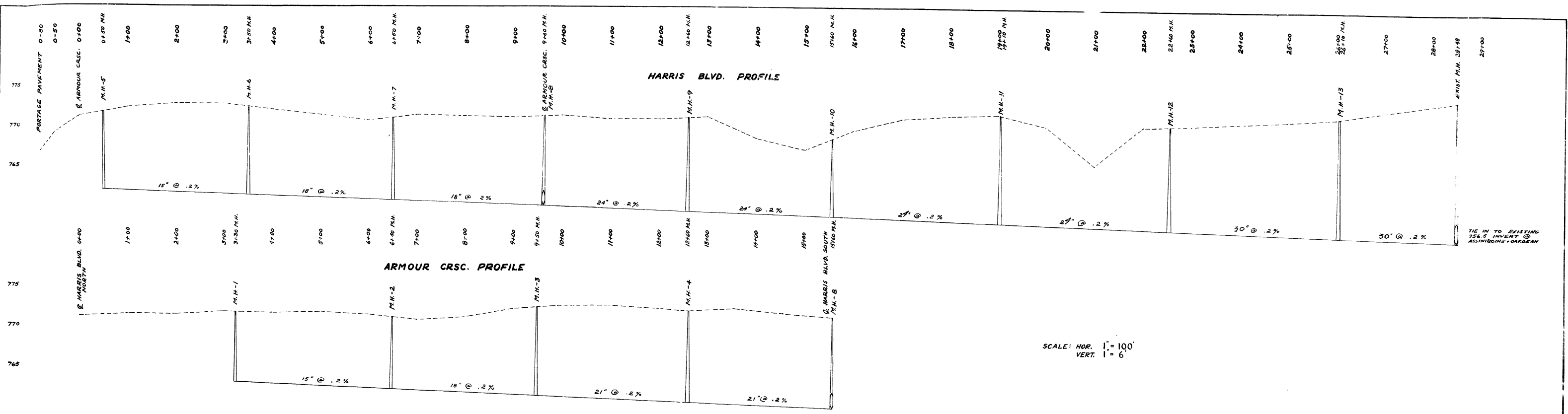


THE CITY OF ST JAMES
 ENGINEERING DEPARTMENT
 10\"/>

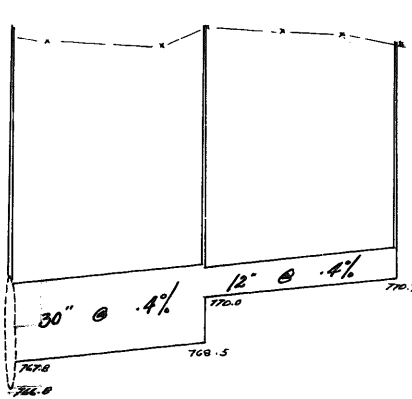
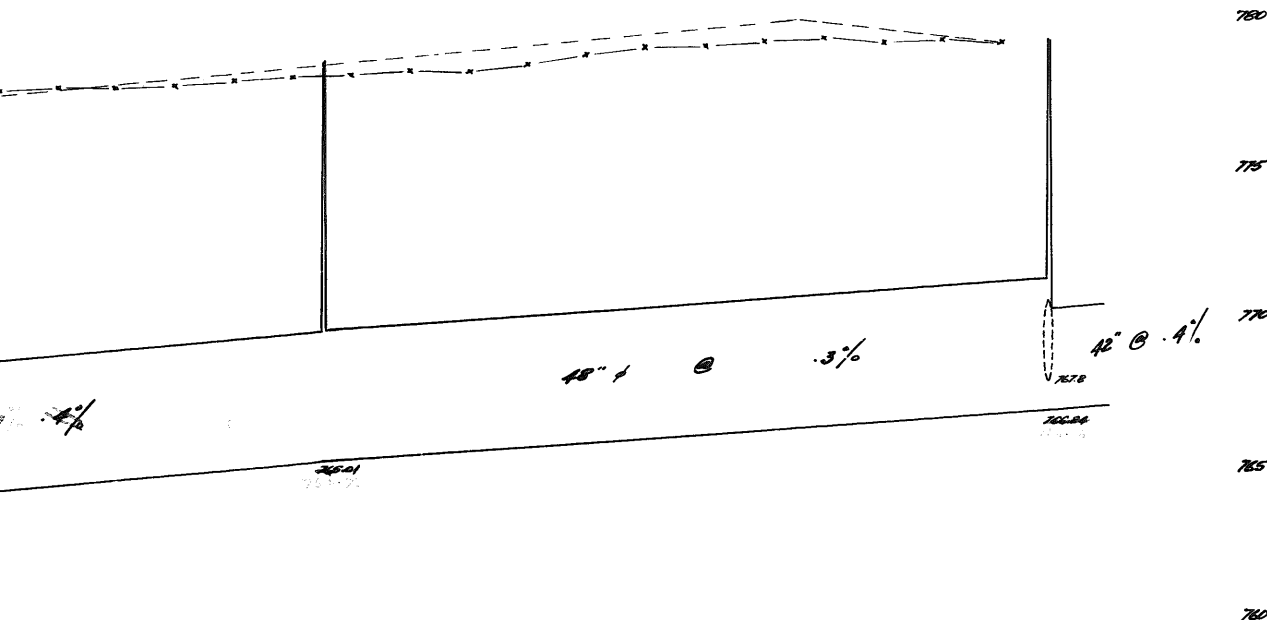
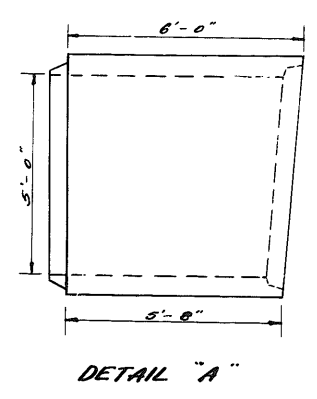
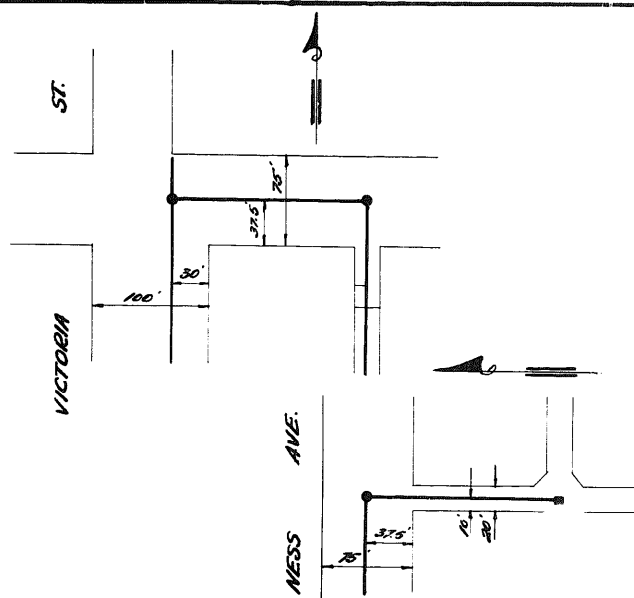
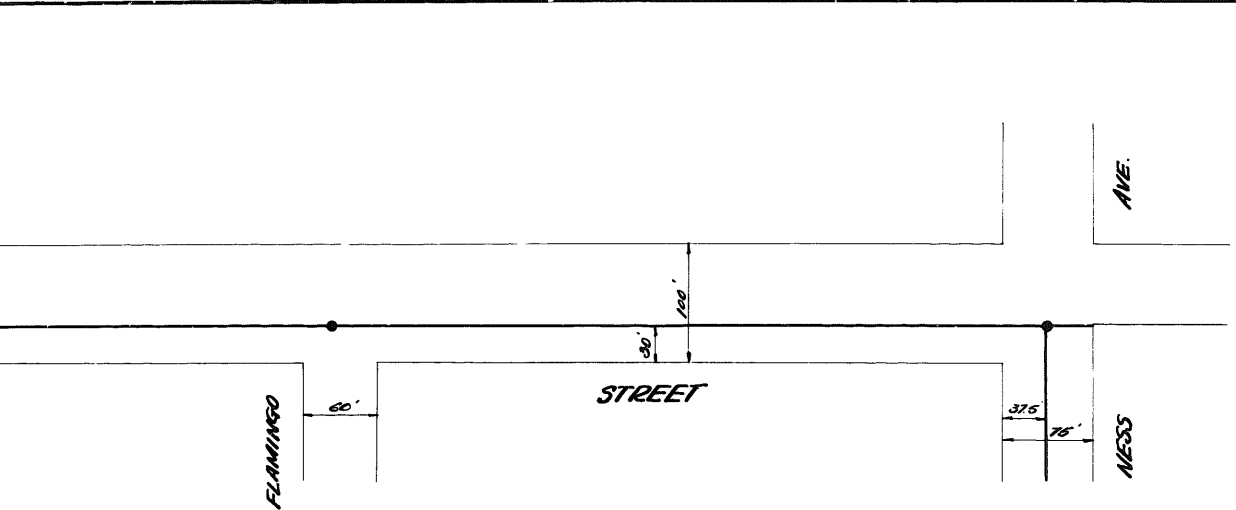
DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 DATE: FEB 11th 03
 SCALE: 1\"/>

29x





MUNICIPALITY OF WINDYBUSH
 ENGINEER
 THE PROPOSED SEWER FOR
 HARRIS BLVD. & ARMOUR CRSC.
 15th DEC 1964



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 9950
 10000

NOTES:

LEGEND:

- PROPOSED ST. SEWER & MANHOLE
- EXIST. ST. SEWER & MANHOLE

BENCH MARK:

NO. REVISIONS:
AS BUILT.

**THE CITY OF ST. JAMES
ENGINEERING DEPARTMENT**

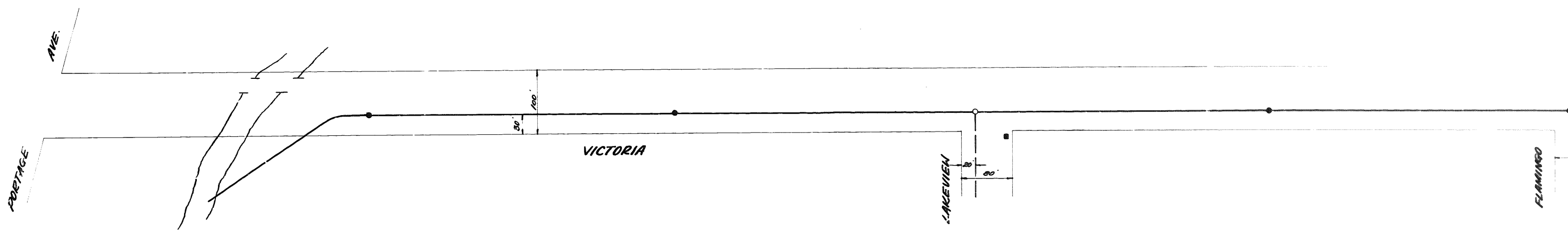
TITLE: *Victoria Street* VICTORIA STREET
PORTAGE - NESS
STORM SEWER

DRAWN BY: *SB* DATE: *01/21/01*
 DESIGNED BY: *Bob Davidson*
 APPROVED: *[Signature]*
 CITY ENGINEER

SCALE: HORIZ. 1" = 100'
 VERT. 1" = 4'

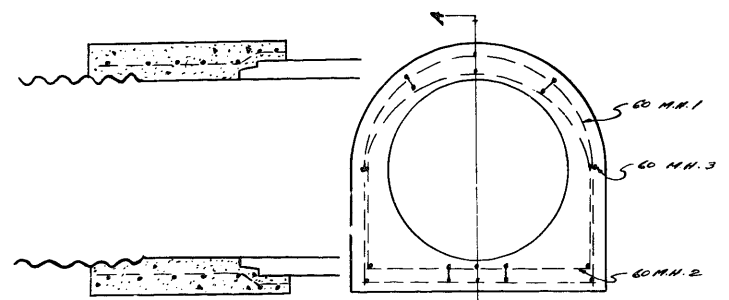
FILE: *AV 6*





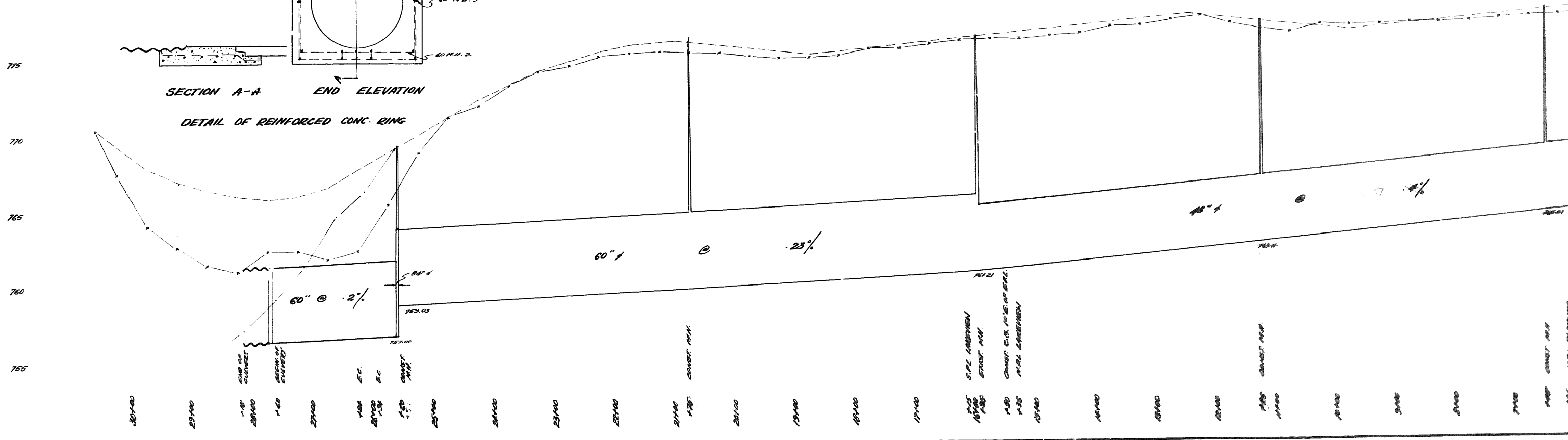
| STEEL LIST | | | | |
|------------|-----|--------|--------|------|
| MARK | NO. | SIZE | LENGTH | TYPE |
| 60" M.H.-1 | 10 | 3/8" # | 14'-0" | ⤿ |
| 60" M.H.-2 | 10 | 3/8" # | 12'-2" | ⌊ |
| 60" M.H.-3 | 12 | 3/8" # | 9'-6" | — |

CONCRETE TO BE 3000 LBS. KALICRETE.



SECTION A-A END ELEVATION

DETAIL OF REINFORCED CONC. RING



30+00 29+00 28+00 27+00 26+00 25+00 24+00 23+00 22+00 21+00 20+00 19+00 18+00 17+00 16+00 15+00 14+00 13+00 12+00 11+00 10+00 9+00 8+00 7+00 6+00 5+00 4+00 3+00 2+00 1+00

END OF CURVE
28+00

END OF CURVE
27+00

ETC.

ETC.

CONST. M.H.

CONST. M.H.

S.P.L. LAKEVIEW
EXIST. M.H.

CONST. D.S. M.H. AT SP.L.

M.H. LAKEVIEW

CONST. M.H.

CONST. M.H.

M.H. FLAMINGO

236.000
235.000

236.000
235.000

0+60 WFL SCHOOL RD.
+4.267 EXIST. TEE, BEGIN CONST.

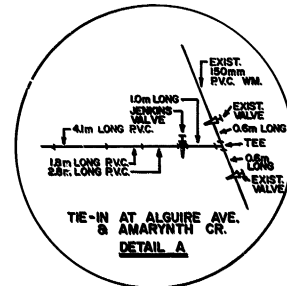
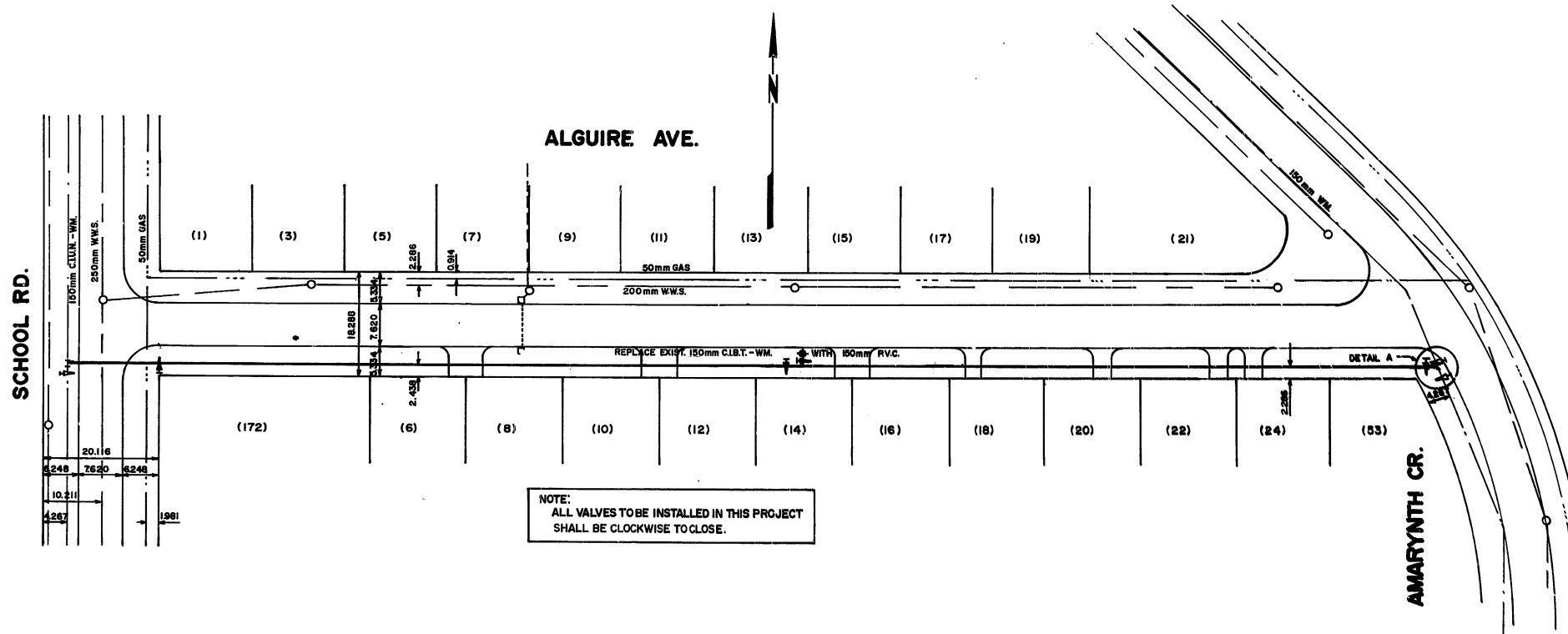
1+281.7 EFL SCHOOL RD. - INST. VALVE
REMOVE EXIST. VALVE BOX

1+100

+28.917 INSTALL VALVE
+31.617 REPLACE EXIST. HYD.

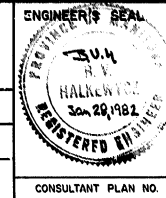
2+100

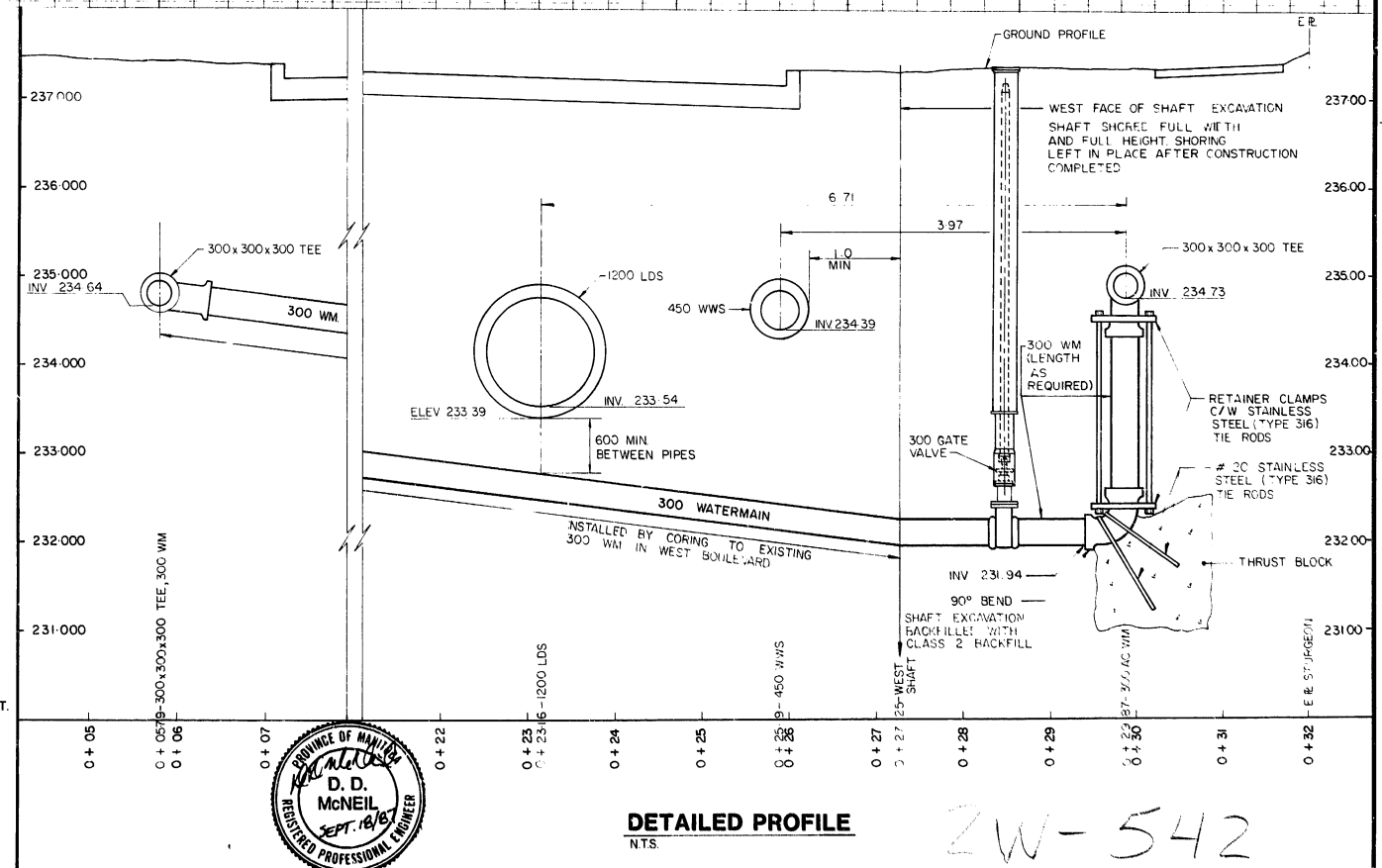
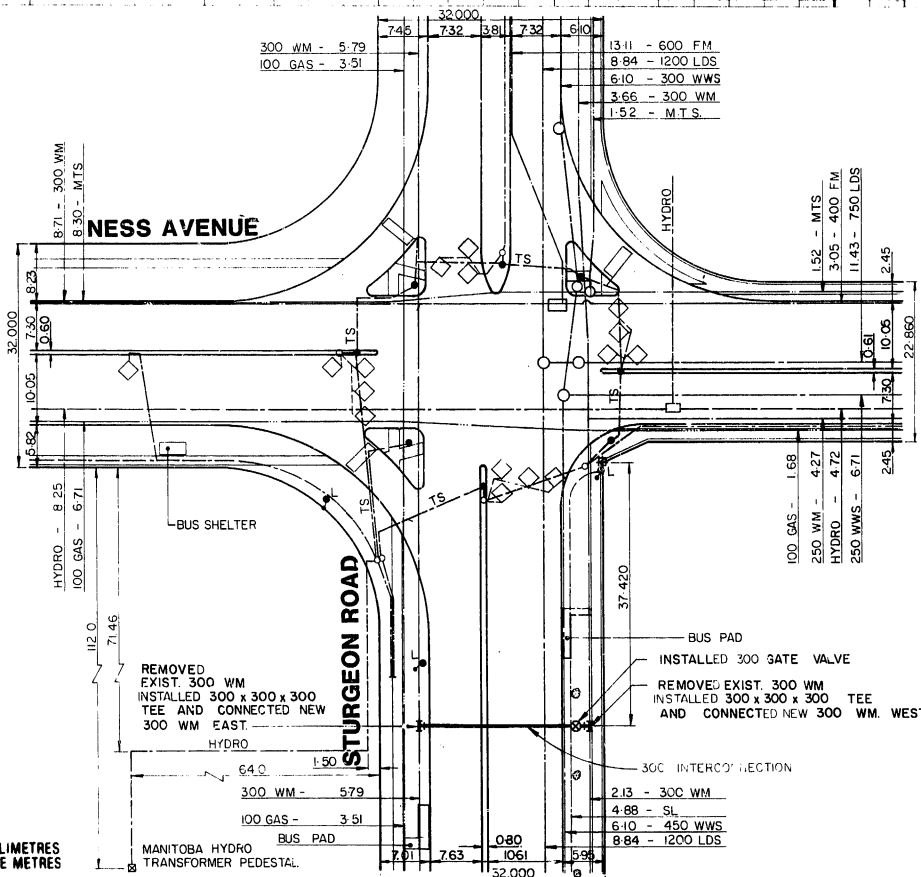
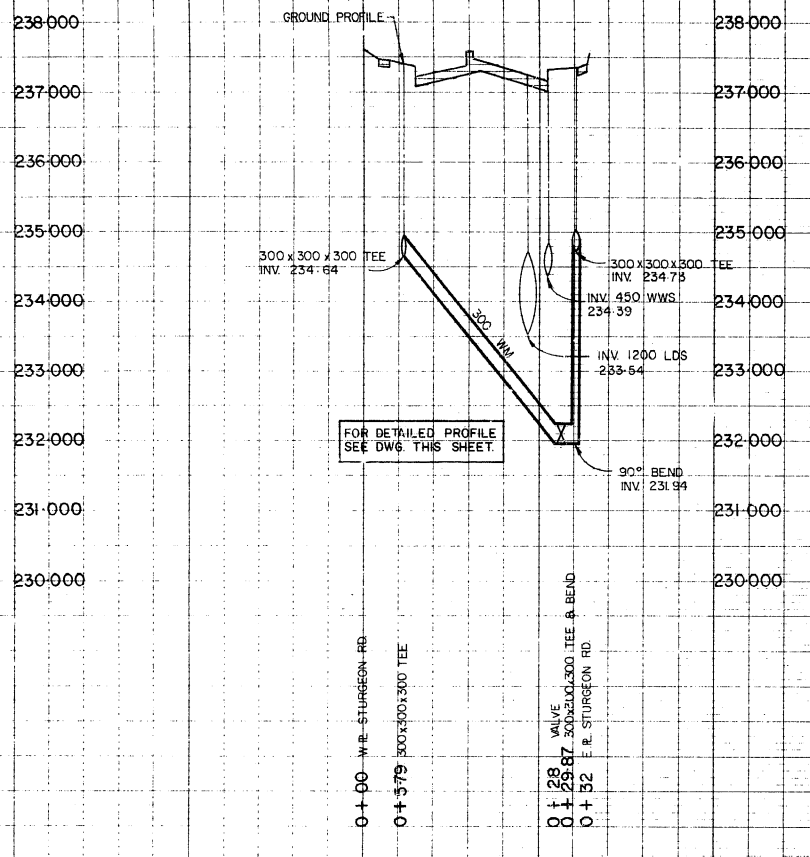
+39.615 3P. AMARYNTH AFF. WFL-ALGUIRE
+41.617 INSTALL VALVE
+43.717 EXIST. TEE, END CONST.



NOTE:
ALL VALVES TO BE INSTALLED IN THIS PROJECT
SHALL BE CLOCKWISE TO CLOSE.

| | | | | | | | | | | |
|---------------|---------------------|---------------|---------------|---------------|---------------------|---------------|--------------------------------|----------------|--|--|
| 150 mm W.M. | WATERMAIN | 150 mm W.M. | HYDRO | 150 mm W.M. | WATERMAIN | 150 mm W.M. | LOCATION APPROVED | B.M. ELEV. | THE CITY OF WINNIPEG WORKS AND OPERATIONS DEPARTMENT OPERATIONS DIVISION - DISTRICT 2 ALGUIRE AVE. SCHOOL - AMARYNTH 150mm WATERMAIN RENEWAL | RELEASED FOR CONSTRUCTION: J.V. Haldenby DISTRICT ENGINEER DATE Jan 28, 1982 PLAN NO. 792-C |
| 300 mm L.D.S. | LAND DRAINAGE SEWER | 300 mm L.D.S. | CONCRETE | 300 mm L.D.S. | LAND DRAINAGE SEWER | 300 mm L.D.S. | UNDERGROUND STRUCTURES | AS - BUILT | | |
| 250 mm W.W.S. | WASTE WATER SEWER | 250 mm W.W.S. | ASPHALT | 250 mm W.W.S. | WASTE WATER SEWER | 250 mm W.W.S. | SUPV. U/G STRUCTURES COMMITTEE | 8/18/82 M.S.G. | DESIGNED BY <i>[Signature]</i> | CHECKED BY |
| MANHOLE | MANHOLE | MANHOLE | PROPERTY LINE | 250 mm W.W.S. | WASTE WATER SEWER | 250 mm W.W.S. | DATE | | DRAWN BY R.J.M. | DATE JAN. 782 |
| CATCH BASIN | CATCH BASIN | CATCH BASIN | SURVEY BAR | CONCRETE | CONCRETE | CONCRETE | | | HOR. SCALE: 1:500 | APPROVED BY <i>[Signature]</i> |
| CURB INLET | CURB INLET | CURB INLET | | PROFILE | PROFILE | PROFILE | | | VERTICAL: 1:50 | DATE Jan 28, 1982 |
| JUNCTIONS | JUNCTIONS | JUNCTIONS | | | | | | | DETAIL: N.T.S. | |
| CULVERT | CULVERT | CULVERT | | | | | | | | |
| GAS | GAS | GAS | | | | | | | | |
| EXISTING | LEGEND - PLAN | PROPOSED | EXISTING | LEGEND - PLAN | PROPOSED | EXISTING | LEGEND - PROFILE | PROPOSED | | |
| | | | | | | | | | NO. | REVISIONS |
| | | | | | | | | | DATE | BY |





AS-CONSTRUCTED
 [Signature]
 INSPECTION SURVEY TECHNICAL SERVICES DATE 30.11.07
 WATERWORKS, WASTE & DISPOSAL DEPARTMENT

METRIC
 WHOLE NUMBERS INDICATE MILLIMETRES
 DECIMALIZED NUMBERS INDICATE METRES

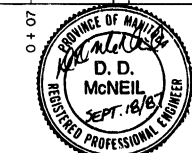
| 150 mm W.M. | 150 mm W.M. | HYDRO | 150 mm W.M. | 300 mm W.M. | 300 mm W.M. |
|---------------------|---------------------|----------------|---------------------|---------------------|---------------------|
| WATERMAIN | WATERMAIN | M.T.S. | WATERMAIN | WATERMAIN | WATERMAIN |
| HYDRANT | HYDRANT | CONCRETE | HYDRANT | HYDRANT | HYDRANT |
| VALVE | VALVE | ASPHALT | VALVE | VALVE | VALVE |
| LAND DRAINAGE SEWER | LAND DRAINAGE SEWER | PROPERTY LINE | LAND DRAINAGE SEWER | LAND DRAINAGE SEWER | LAND DRAINAGE SEWER |
| WASTE WATER SEWER | WASTE WATER SEWER | SURVEY BAR | WASTE WATER SEWER | WASTE WATER SEWER | WASTE WATER SEWER |
| MANHOLE | MANHOLE | TREE | MANHOLE | MANHOLE | MANHOLE |
| CATCH BASIN | CATCH BASIN | LIGHT STANDARD | CATCH BASIN | CATCH BASIN | CATCH BASIN |
| CURB INLET | CURB INLET | TRAFFIC SIGNAL | CURB INLET | CURB INLET | CURB INLET |
| JUNCTIONS | JUNCTIONS | | JUNCTIONS | JUNCTIONS | JUNCTIONS |
| CULVERT | CULVERT | | CULVERT | CULVERT | CULVERT |
| GAS | GAS | | GAS | GAS | GAS |
| EXISTING | LEGEND-PLAN | PROPOSED | EXISTING | LEGEND-PROFILE | PROPOSED |

LOCATION APPROVED UNDERGROUND STRUCTURES

BM ELEV 39-027
 237.845

NOTE:
 LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION

REVISED TO ASBUILT 89 09 28 TM
 NO REVISIONS DATE BY



WORKS & OPERATIONS DIVISION
 WATERWORKS, WASTE & DISPOSAL DEPARTMENT

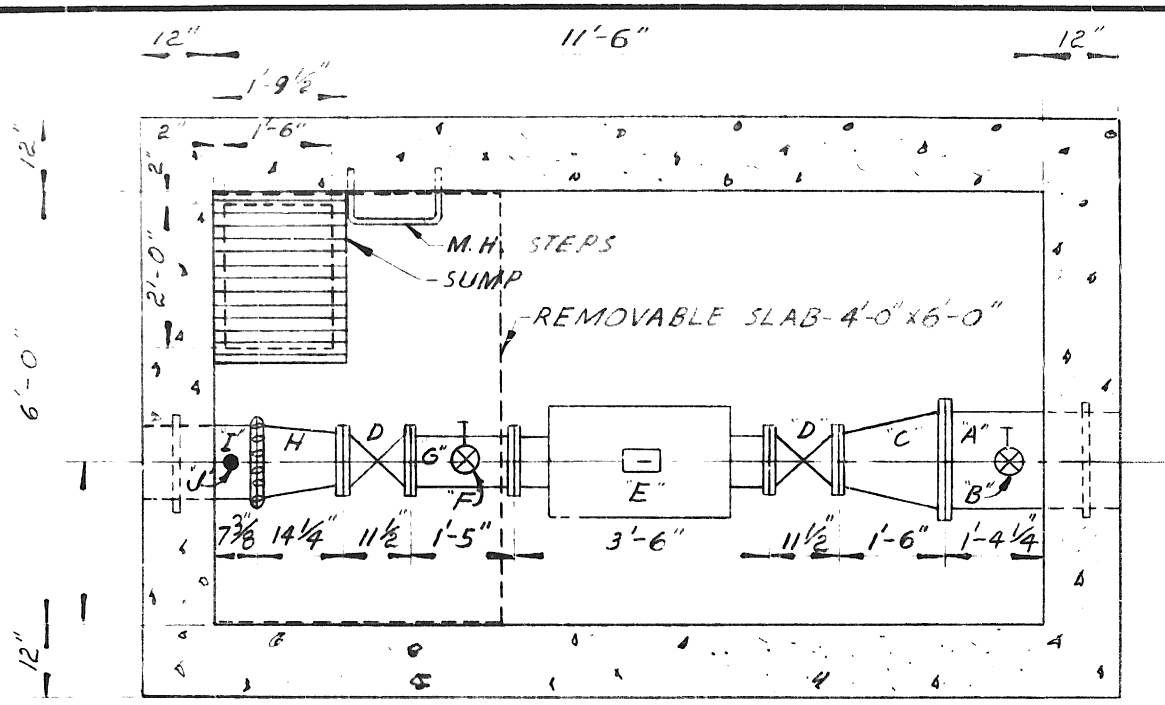
DESIGNED BY DDM
 CHECKED BY RAS
 DRAWN BY TM
 APPROVED BY [Signature]
 HOR SCALE 1:500
 VERTICAL 1:50
 RELEASED FOR CONSTRUCTION
 DATE 18.7.97



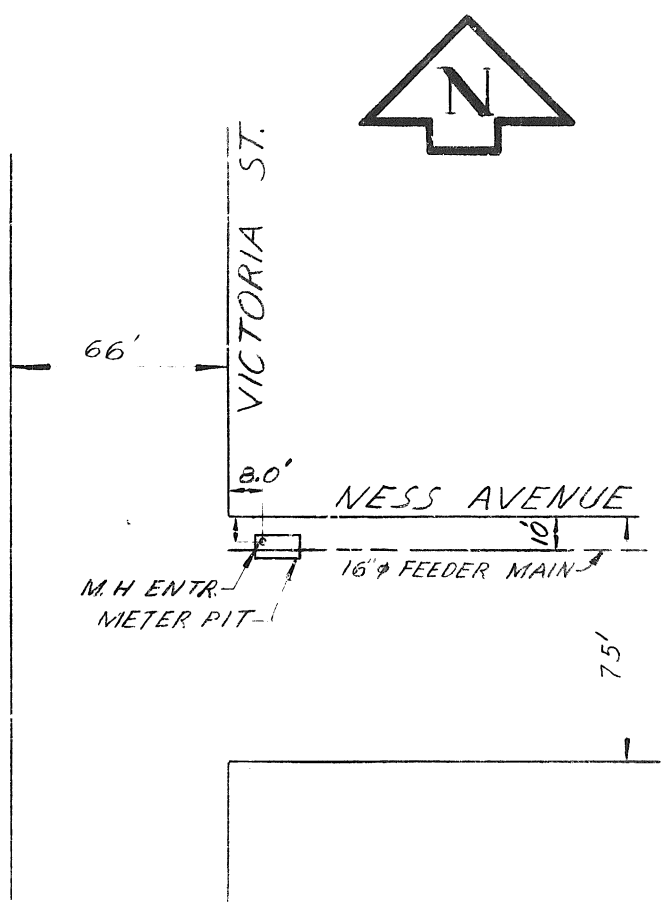
THE CITY OF WINNIPEG
 WORKS AND OPERATIONS DIVISION

WEST END FEEDERMAIN
PROPOSED 300
INTERCONNECTION AT
STURGEON RD. AND NESS AVE.

CITY DRAWING NUMBER
 SHEET OF
D-1612



FLOOR PLAN
SCALE - 3/8" = 1'-0"

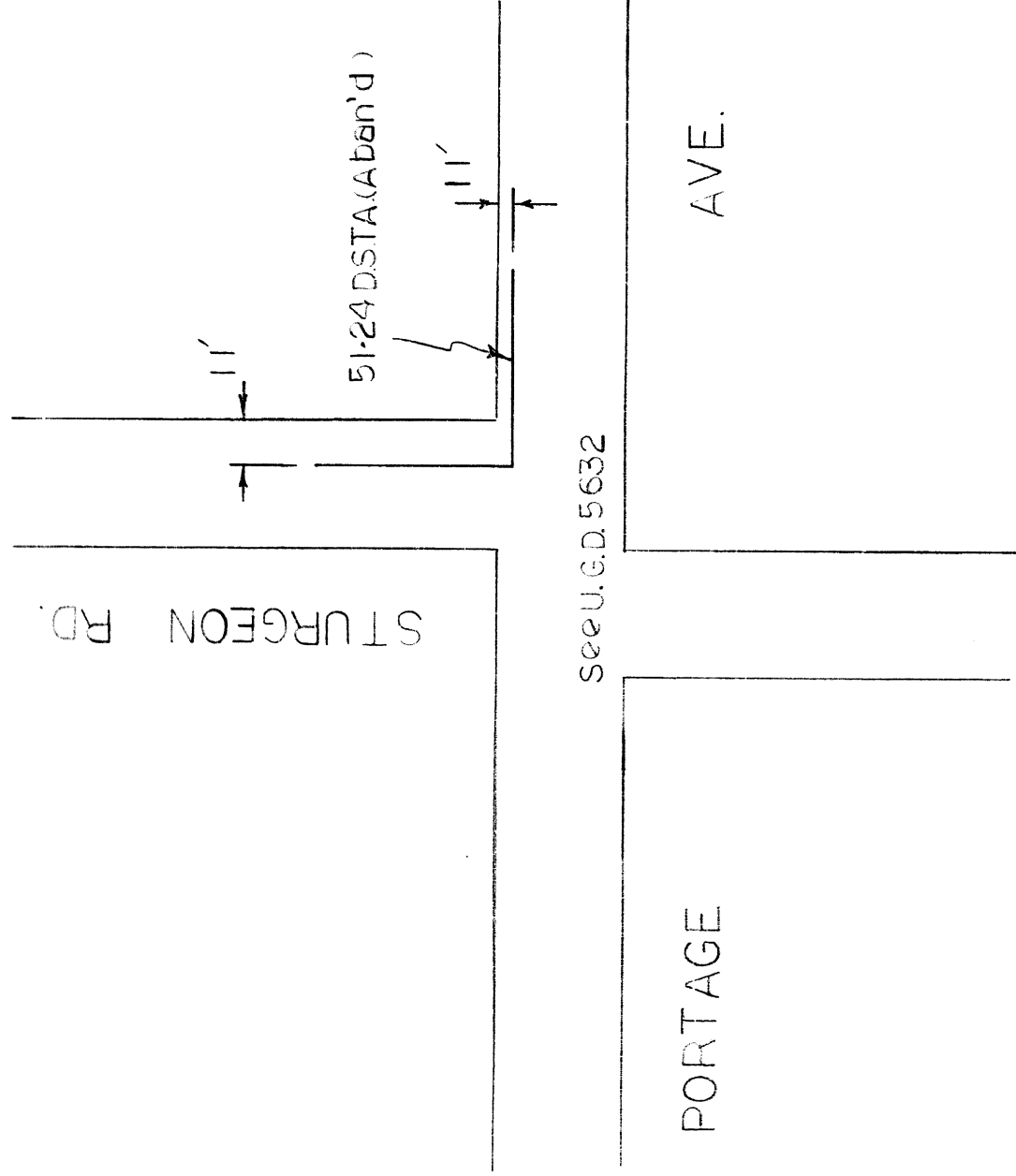


SITE PLAN
SCALE - 1" = 60'

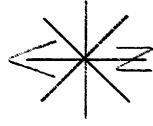
| ITEM | LIST OF MATERIALS | No. |
|------|---|-----|
| A | 16" φ C.I. PIPE - FLANGED | 1 |
| B | 2" SHORT NIPPLE AND 2" φ BRASS MC AVITY GATE VALVE (2" PLUG ON BOTTOM OF PIPE) | 2 |
| C | 16" X 8" φ REDUCER - FLANGED | 1 |
| D | 8" φ MC AVITY GATE VALVES | 2 |
| E | 8" φ FISCHER-PORTER MAGNETIC METER (#6209B1462A1) | 1 |
| F | 3" φ - 6" LONG GALVANIZED NIPPLE, 3" φ CRANE BRASS GATE VALVE & 3" φ BRASS PLUG (ON BOTTOM) | 1 |
| G | 8" φ FILLER | 1 |
| H | 8" X 12" φ REDUCER - FLANGE TO VICTAULIC | 1 |
| I | 12" C.I. PIPE - VICTAULIC | 1 |
| J | 1" C.I. PLUGS (TOP AND BOTTOM) | 2 |

THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
WATERWORKS BRANCH
METER PIT - ST. JAMES
VICTORIA STREET AND
NESS AVENUE

| | | | |
|-----------------|-------------|------------|-------------|
| APPROVED BY | DESIGNED BY | CHECKED BY | DRAWING NO. |
| CHIEF ENGINEER | DRAWN BY | DATE | A-834 |
| | G.O. | 18 JULY 52 | |
| SCALES AS NOTED | | | |

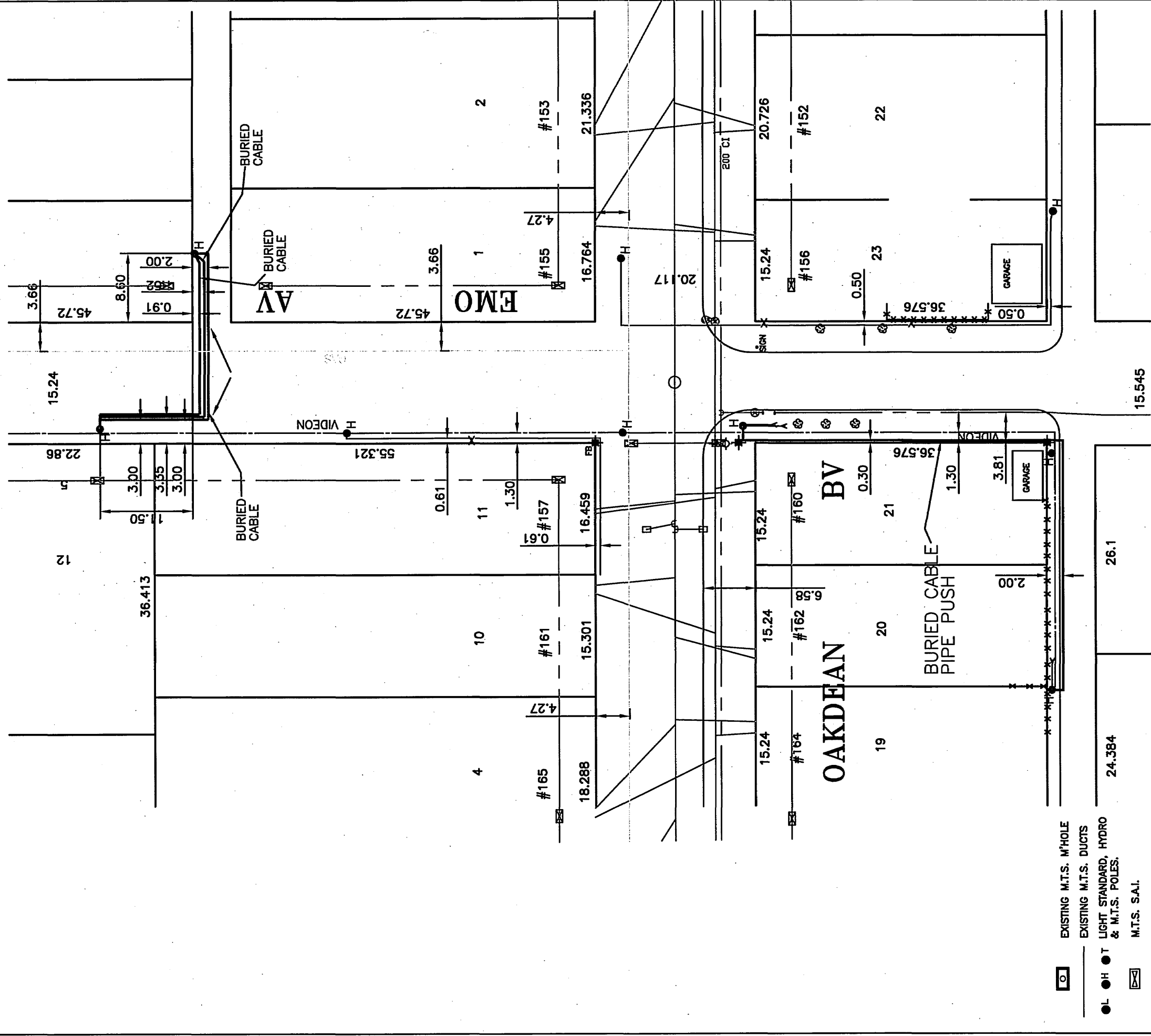


Total 51-24 D.S.T.A. 142.3' (Aban'd 93023)



| MANITOBA TELEPHONE SYSTEM | |
|---|------------------|
| Exchange: VERNON | Loc. Code: 6400 |
| Municipality of: ST JAMES - ASSINIBOIA C.C.A. | |
| Location: STURGEON RD. & PORTAGE AVE. | |
| Scale: N.T.S. | DIP OF PLAT OF |
| U.G. DIP NUMBER: 5356 A | |

| CODE | REVISED | APPROVAL |
|------|---------|----------|
| | 11-4-56 | |
| | | |
| | | |
| | | |

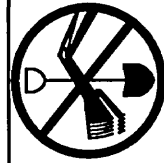


- EXISTING M.T.S. M'HOLE
- EXISTING M.T.S. DUCTS
- LIGHT STANDARD, HYDRO & M.T.S. POLES.
- M.T.S. S.A.I.
- DSLAM CABINET
- M.T.S. PEDESTAL
- PROPOSED M.T.S. PEDESTAL
- HYDRO TRANSFORMER
- PAYPHONE
- EASEMENT BOUNDARY
- GAS
- WATER
- SEWER
- UNITEL
- HYDRO DUCTS
- HYDRO BURIED CABLE
- SIGNALS
- PAVEMENT/SIDEWALK
- WATER HYDRANT
- VALVE
- SEWER M'HOLE/CATCH BASIN
- SURVEY MONUMENT
- PROPERTY LINE

| GEOMATICS JOB NUMBER: | |
|---|-------------------------------|
| <small>Contact Geomatics at 986-4826 refer to construction const.</small> | <small>DATE COMPLETED</small> |
| APPROVAL 05-30 | DATE COMPLETED 05-02-14 |
| NETWORK # 9722640 | DATE COMPLETED 07-02-19 |
| AB | |

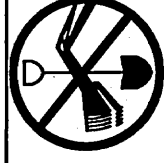
PLANT DEPT. To contact PERMIT CLERK at 986-3184 24 hours prior to commencing construction.
 Contact Geomatics at 986-4826 prior to commencing const.

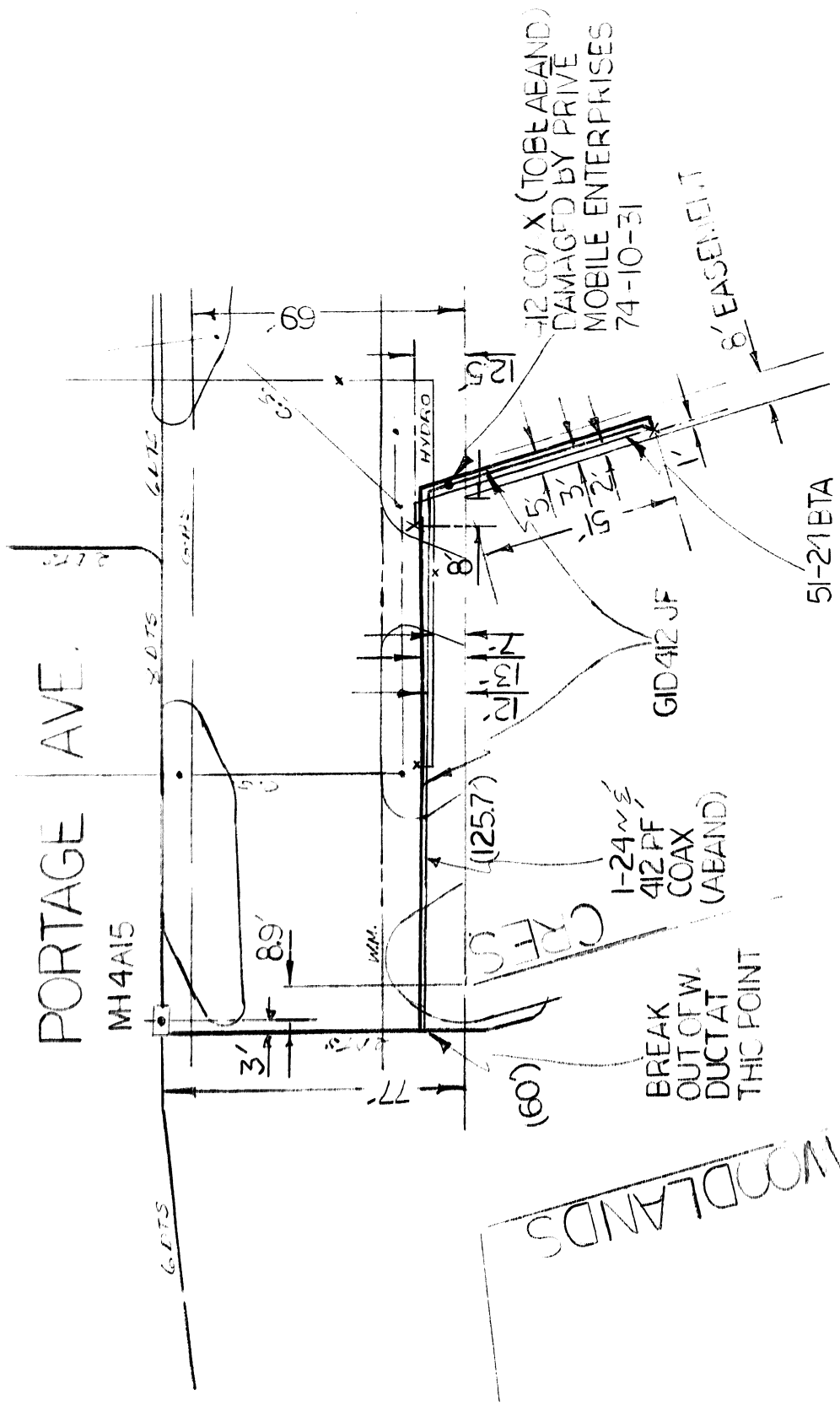
| | | | |
|---|------------------|--------------------|------------------|
| SITE LOCATION EMO AVE. & OAKDEAN BLVD. | | SCALE 1:500 | PP/AB AB |
| ORIGINATORS: NAME BRENDA SWAN | TELEPHONE # | EXCHANGE VERNON | CLI CODE 6400 |
| MANAGER - UGS/O.P.E. BRENDA SWAN | DATE 07-02-19 | INDEX 9722640 | ROUTE 1 of 1 |
| NETWORK # 9722640 | | PLAT. 5377 | |



CALL BEFORE YOU DIG — CHECK FOR

- PIPELINES CARRYING OIL, GASOLINE, NATURAL GAS, LIQUID PROPANE, STEAM, DRINKING/IRRIGATION WATER, SEWAGE; SEPTIC FIELDS/TANKS;
- BURIED ELECTRICAL, RAILWAY/TRAFFIC SIGNAL, TELEGRAPH LINES; DUCT FORMATIONS; MTS FOTS, TV, VF CABLES ETC.

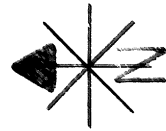




NOTES:

PLANT DEPT.:

- To contact M. McAMMOND at 947-7532 at 24 hours prior to construction for verification of approval and/or in order that the necessary permits may be purchased.
- To contact M.R.E. CAMERON DIST 2 at 537-1371 24 hours prior to commencing construction
- To contact GREATER WPG GAS COMPANY at _____ at 24 hours prior to construction and have them determine the exact location of their utilities.
- No concrete cuts allowed.
- To bury cable(s) at a minimum depth of 3.0 feet below grade.
- To confirm final length of cable.
- To restore ALL SURFACES _____ as closely as possible to its original condition.



0.0

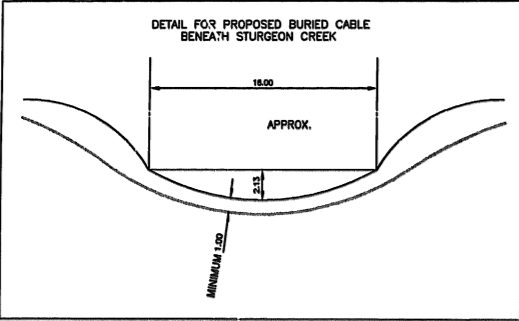
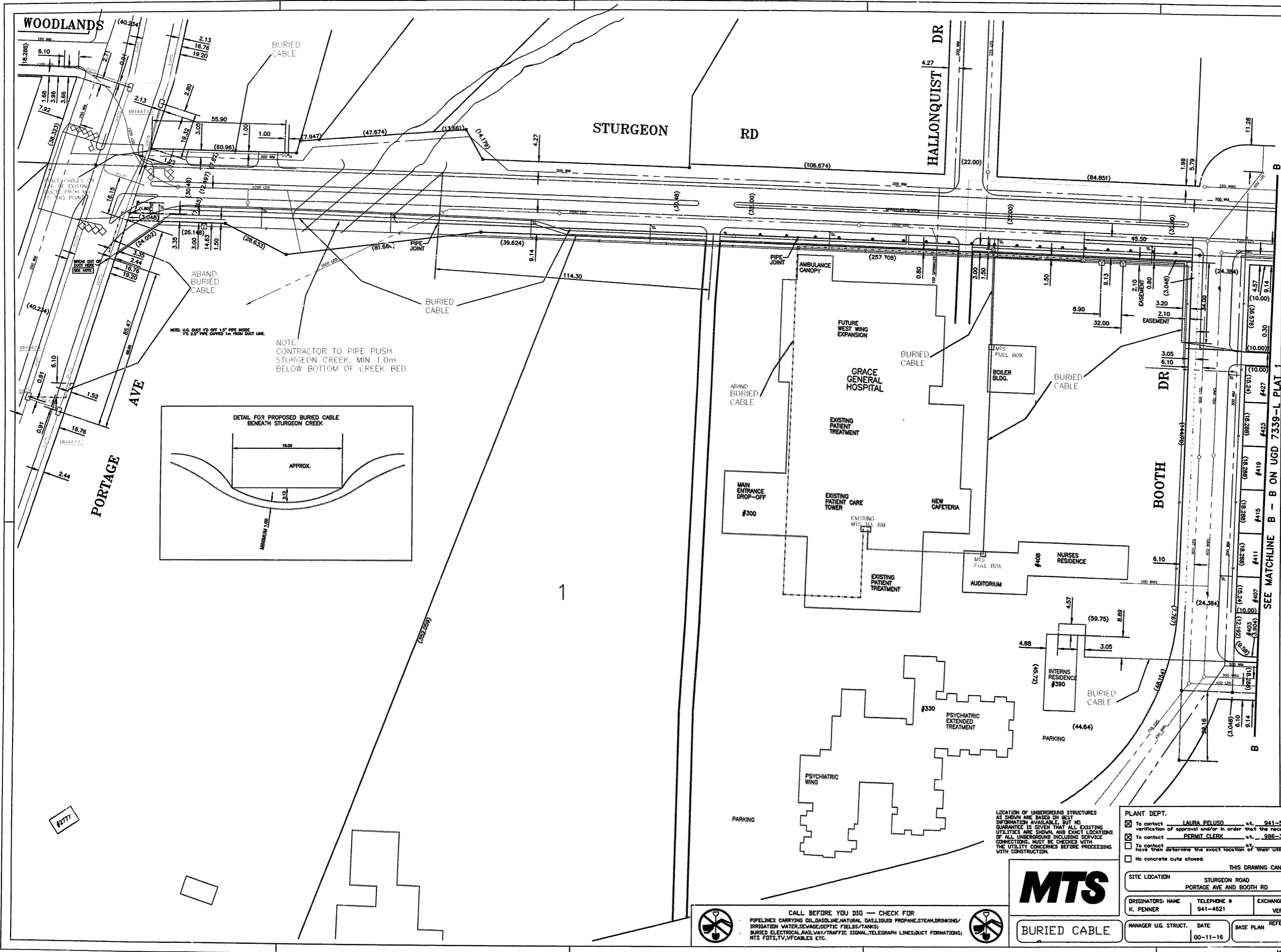
W.O. 78 455 Plan

| CODE | | REVISED | APPROVAL | MANITOBA TELEPHONE SYSTEM | |
|-----------------------|--|------------|------------------------|---------------------------|--|
| | | 77-5-12 IM | A | Exchange: VERNON | Loc. Code: 6400 |
| | | 77-6-13 MG | | Area: DISTRICT 2 | |
| | | 77-9-19 MG | | Location: | S. OF PORTAGE AVENUE - F. OF WOODLANDS CRES. E |
| Scale: 1" = 40' | | | DIP | OF | PLAT |
| AS BUILT | | | | | OF |
| U.G. Dip Number: 5632 | | | Pole Book No.: 71J-A46 | | |

Table 1 was used for P 117

WOODLANDS

NOTES



NOTE: U.S. DUCT 1/2" OFF 1.5" PIPE NOISE VS 2.5" PIPE CAPPED 1/4" FROM DUCT LINE.

NOTE: CONTRACTOR TO PIPE PUSH STURGEON CREEK, MIN 1.0m BELOW BOTTOM OF CREEK BED

- LEGEND**
- PROPOSED M.T.S. M'HOLE
 - EXISTING M.T.S. M'HOLE
 - PROPOSED M.T.S. DUCTS
 - EXISTING M.T.S. DUCTS
 - EXISTING M.T.S. BURIED CA.
 - M.T.S. POLE
 - HYDRO POLE
 - LIGHT STANDARD
 - M.T.S. PEDESTAL
 - PROPOSED M.T.S. PEDESTAL
 - HYDRO TRANSFORMER
 - PARAPHONE
 - S.A.I. CABINET
 - EASEMENT BOUNDARY
 - GAS
 - WATER
 - SEWER
 - UNTIL
 - HYDRO DUCTS
 - HYDRO BURIED CABLE
 - SIGNALS
 - PAVEMENT/SIDEWALK
 - WATER HYDRANT
 - SEWER M'HOLE/CATCH BASIN
 - SURVEY MONUMENT

CITY BASE

| APPROVAL | ORDER # | YEAR COMPLETED |
|----------|----------|----------------|
| 00-127 | 90219100 | 00-11-16 |
| AB | | 01-12-27 |

PLANT DEPT. To contact LAURA PELUSO at 941-5867, 24 hours prior to commencing construction for verification of approval and/or in order that the necessary permits may be purchased.

To contact PERMIT CLERK at 986-3184, 24 hours prior to commencing construction.

To contact _____ at _____ hours prior to commencing construction and have them determine the exact location of their utilities.

No concrete cuts allowed.

THIS DRAWING CANCELS UGD #'S 74152 & 8648

| | | | |
|---|-------------|----------------|---------------|
| SITE LOCATION | | SCALE | |
| STURGEON ROAD PORTAGE AVE AND BOOTH DR | | PP/AB 1:750 | |
| ORIGINATOR'S NAME | TELEPHONE # | EXCHANGE | LOCATION CODE |
| K. PENNER | 941-4621 | VERNON | WNPGB13 |
| MANAGER U.G. STRUCT. | DATE | BASE PLAN | REFERENCES |
| | 00-11-16 | | INDEX |
| | | ORDER # | PLAT. |
| | | 6 of 6 | 7339-L |

MTS

BURIED CABLE

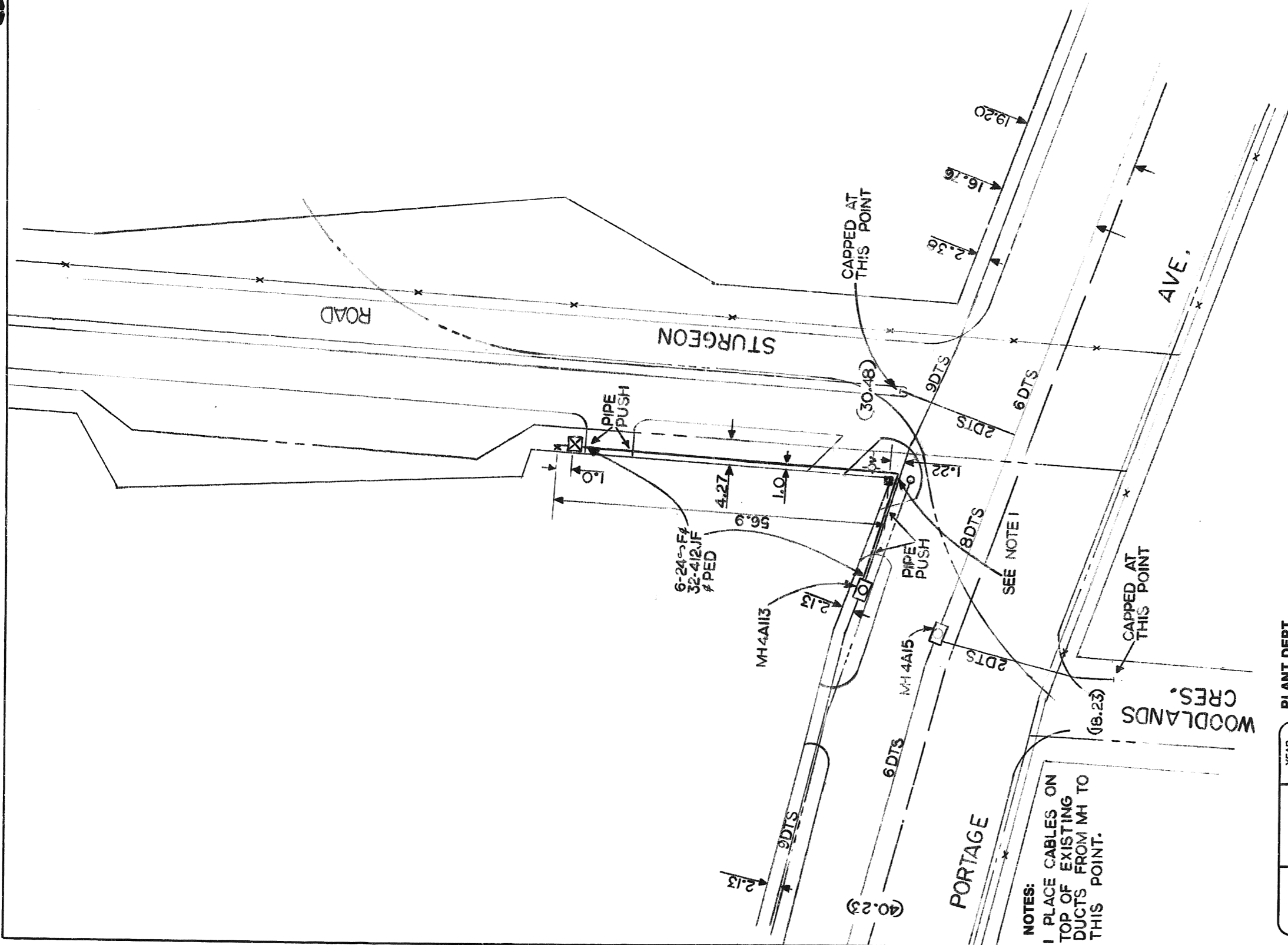
CALL BEFORE YOU DIG — CHECK FOR
PIPELINES CARRYING OIL, GAS, LIQUID, NATURAL GAS, LIQUID PROPANE, STEAM, DRINKING/
IRRIGATION WATER, SEWAGE, SEPTIC TANKS, FIELDS/TANKS/
BURIED ELECTRICAL, RAILWAY, TRAFFIC SIGNAL, TELEGRAPH LINES, DUCT FORMATIONS,
MTS PDTS, TV, VFCABLES ETC.

SEE MATCHLINE B - B ON UGD 7339-L PLAT

UGS CABLE DWG



MTS FORM 4219
REV. 6/78

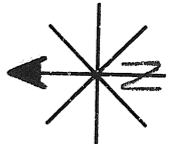


NOTES:
1 PLACE CABLES ON TOP OF EXISTING DUCTS FROM MH TO THIS POINT.

APPROVAL ORDER # 86-217
71761-96
"AS"

PLANT DEPT.

- To contact S. PIERSON at 941-4723 24 hours prior to commencing construction for verification of approval and/or in order that the necessary permits may be purchased.
- To contact B. HALKEWYCZ at 837-1371 24 hours prior to commencing construction.
- To contact _____ at _____ hours prior to commencing construction and have them determine the exact location of their utilities.
- No concrete cuts allowed.



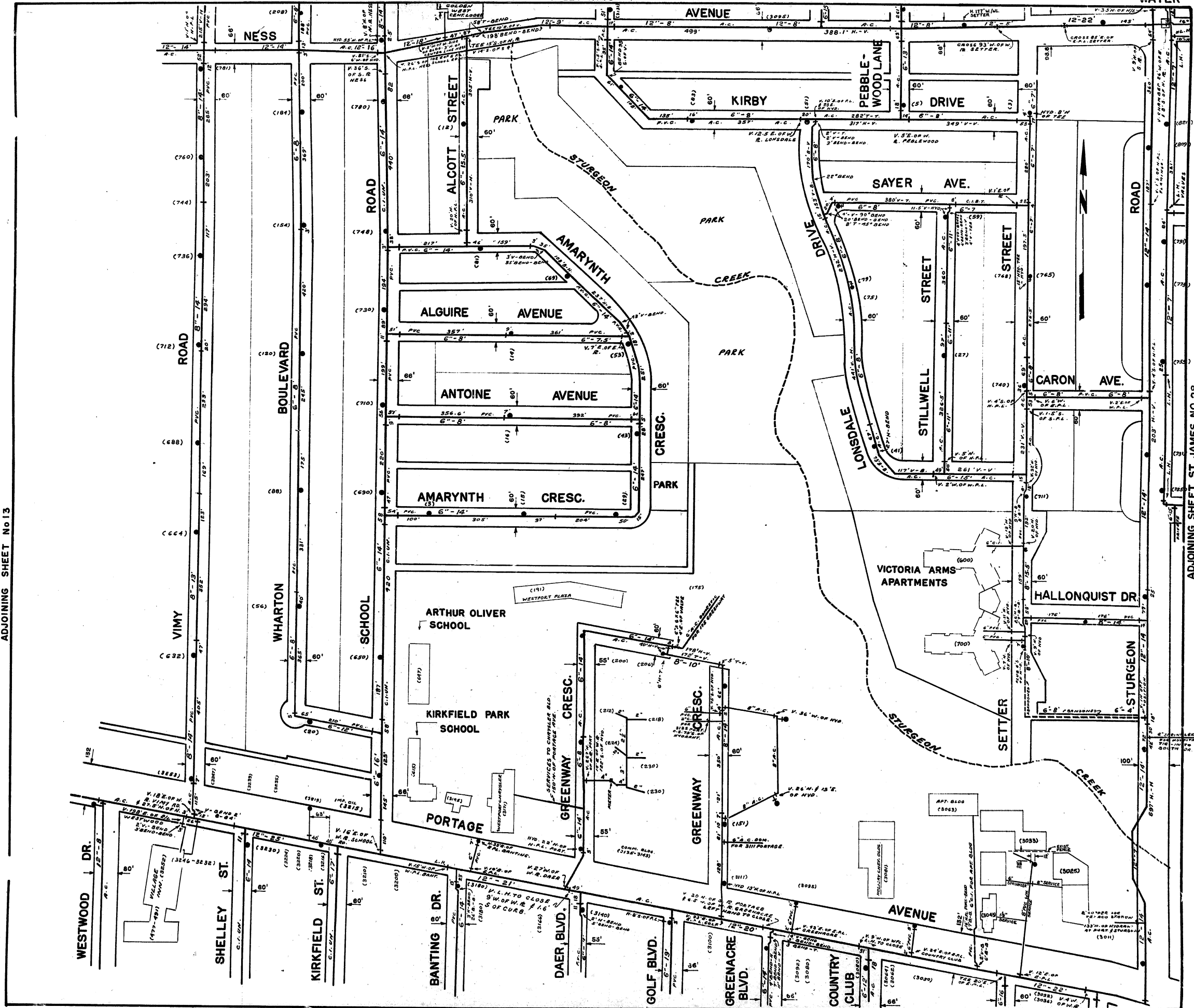
SCALE 1:750
PP/AB AB

SITE LOCATION STURGEON ROAD, PORTAGE AVE.

ORIGINATORS: NAME TELEPHONE # EXCHANGE LOCATION CODE SHEET ROUTE
N. MURRAY 941-4632 VERNON 6400 _____ of _____

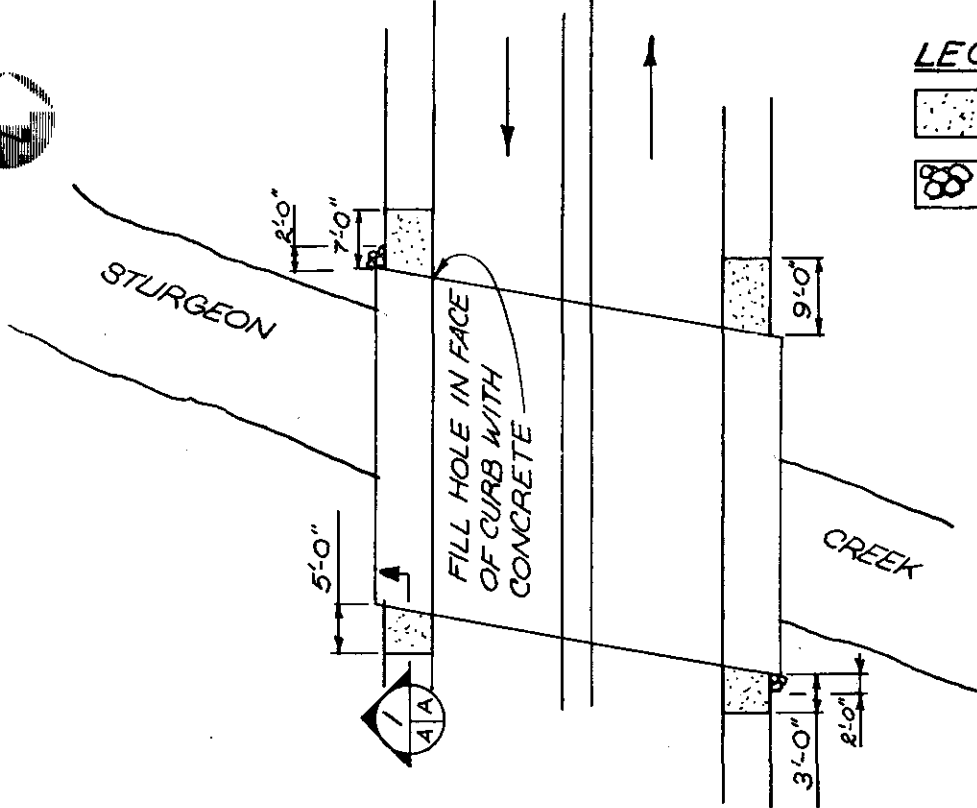
1st LEVEL SIGNATURE DATE 21-08-86
INDEX#: 93
BASE PLAN REFERENCES OTHER INDEX# 93
ORDER # 81599
71761 1 of 1
PLAT. UGD
8648

ADJOINING SHEET No 13



ADJOINING SHEET, ST. JAMES NO. 28

STURGEON ROAD

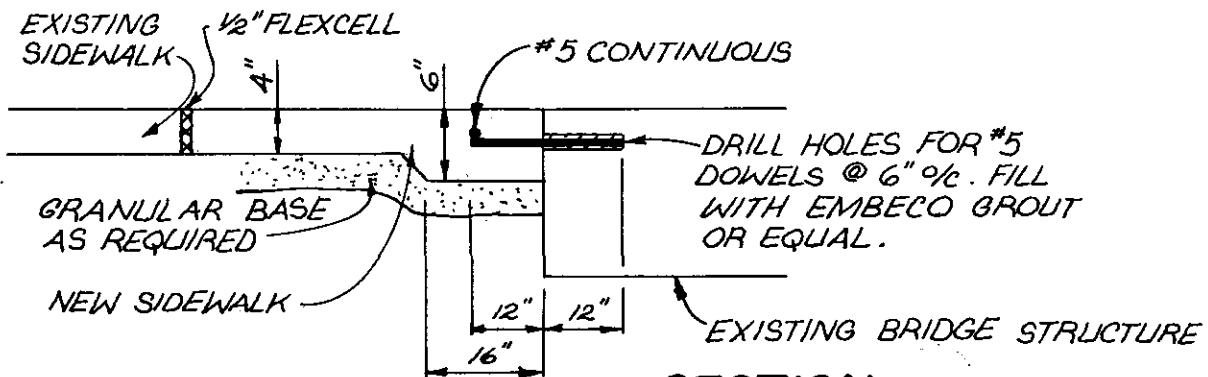


LEGEND

-  REPLACE APPROACH SIDEWALK
-  PLACE CONC. RIPRAP (GROUTED)

PLAN

SCALE: N.T.S.



SECTION

SCALE: N.T.S.



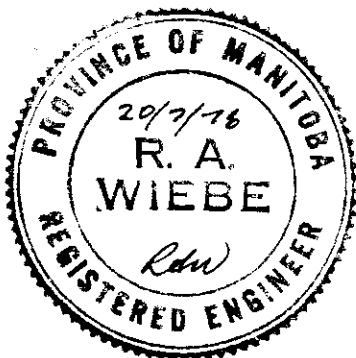
B-5257

NOTE:

1. INSTALL 1/2" FLEXCELL BETWEEN NEW SIDEWALK AND EXISTING CURB & SIDEWALK.
2. MATCH NEW SIDEWALK TO HEIGHT OF SIDEWALK ON BRIDGE.

AS BUILT

APPROVED BY: *Rdw*



Consulting
Engineers
& Planners

DATE JULY/78

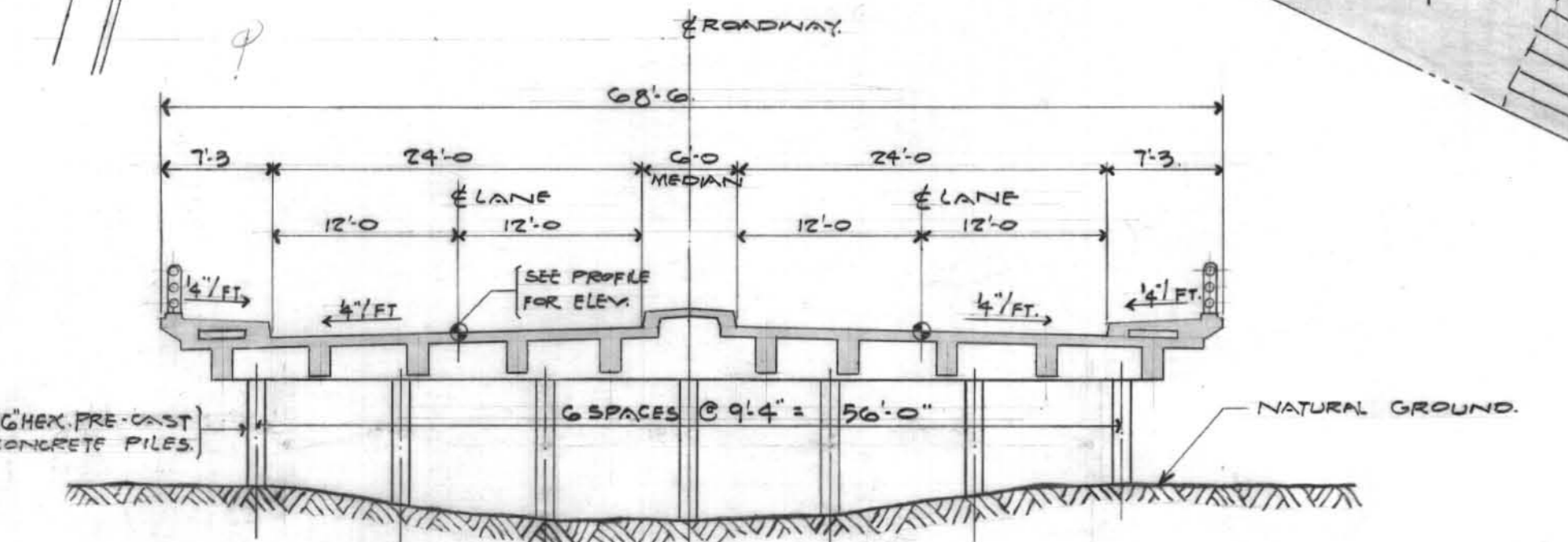
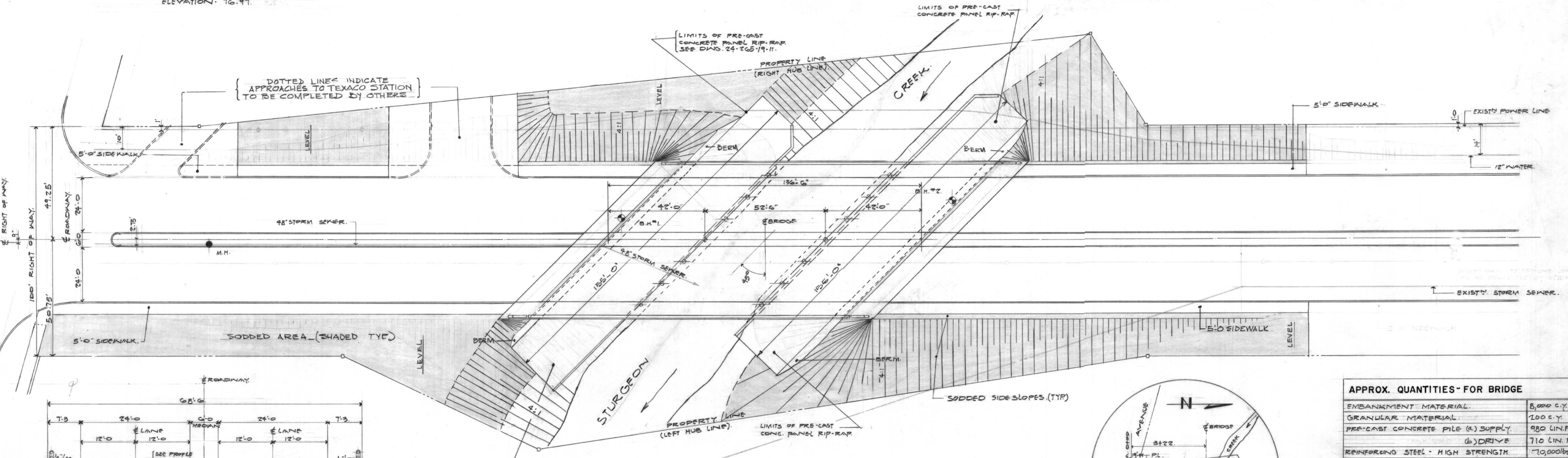
TITLE STURGEON ROAD
AT STURGEON CREEK B120

PROJECT NO.
M.M.D. 8285-04

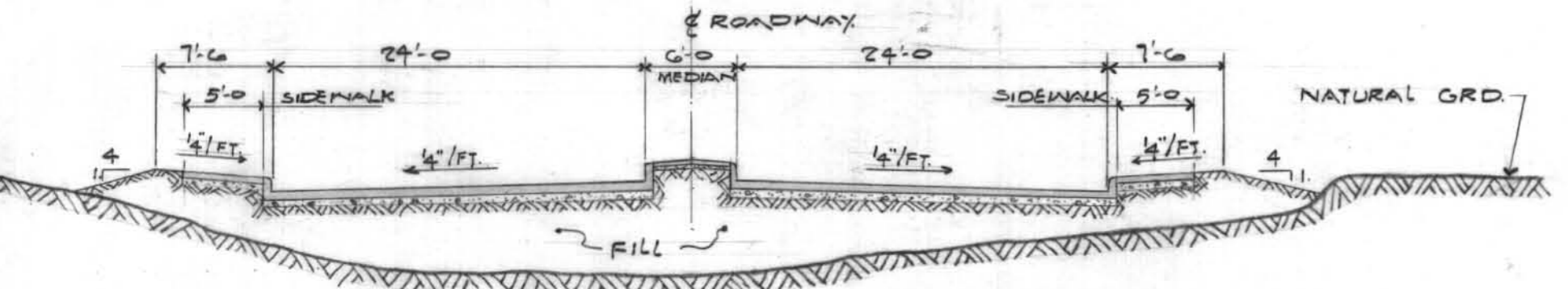
PROJECT
BRIDGE MAINTENANCE - PHASE IV

DETAIL NO.
A

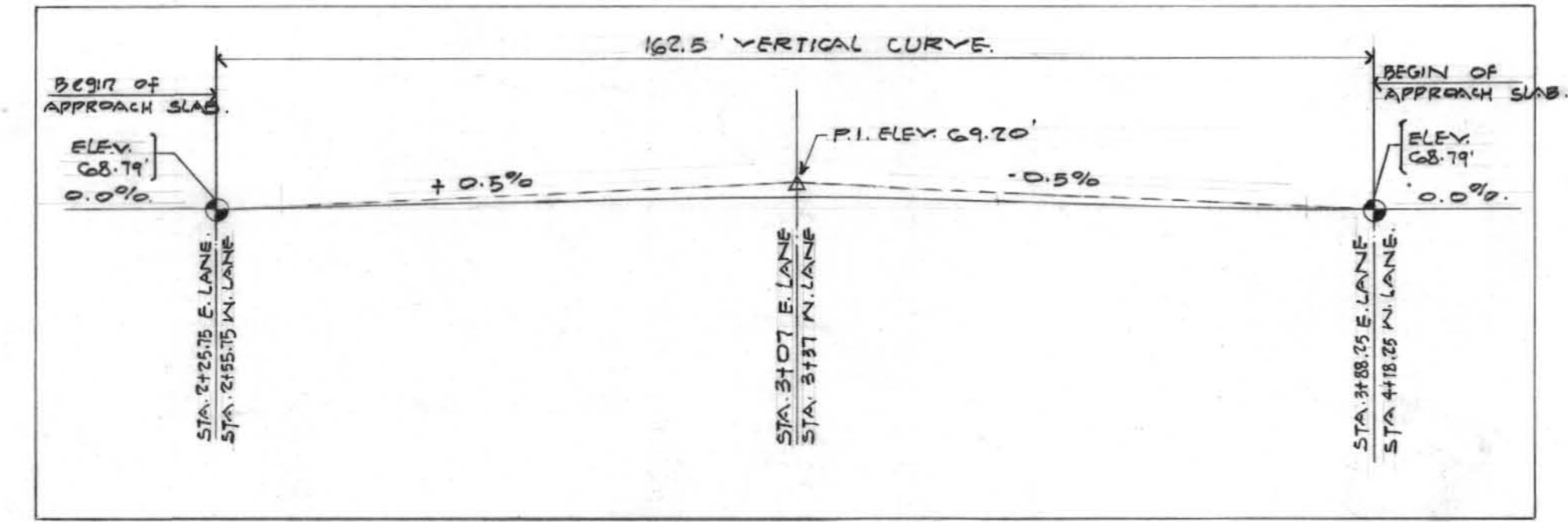
BENCH MARK - SOUTH WEST CORNER WOODLANDS CREST, EAST AND PORTAGE AVE. - TOP OF HYDRANT, ELEVATION: 76.97.



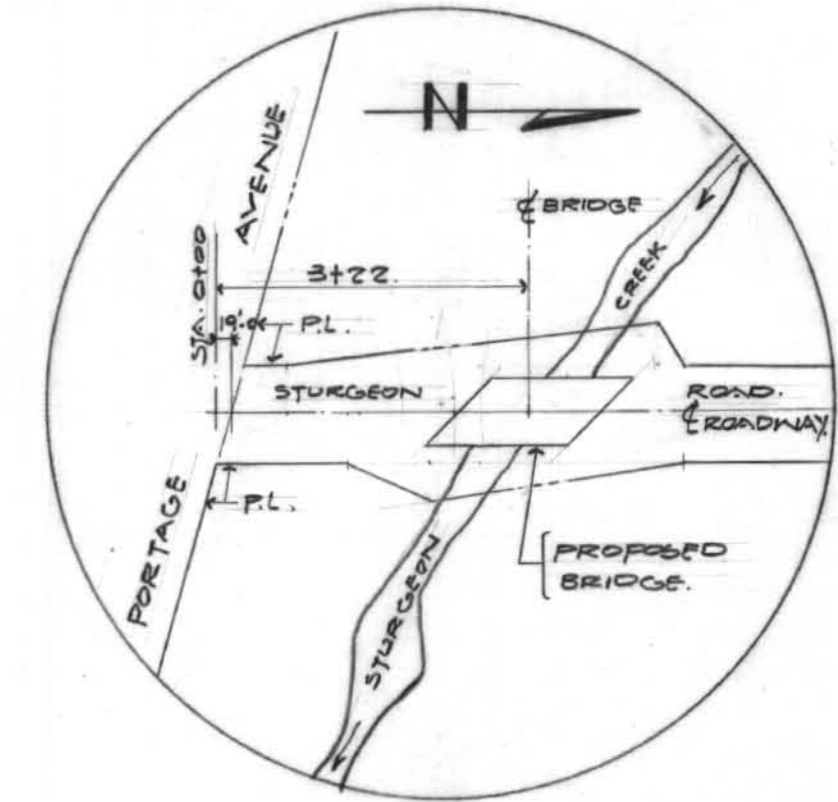
CROSS-SECTION THRU BRIDGE
SCALE 1"=10'



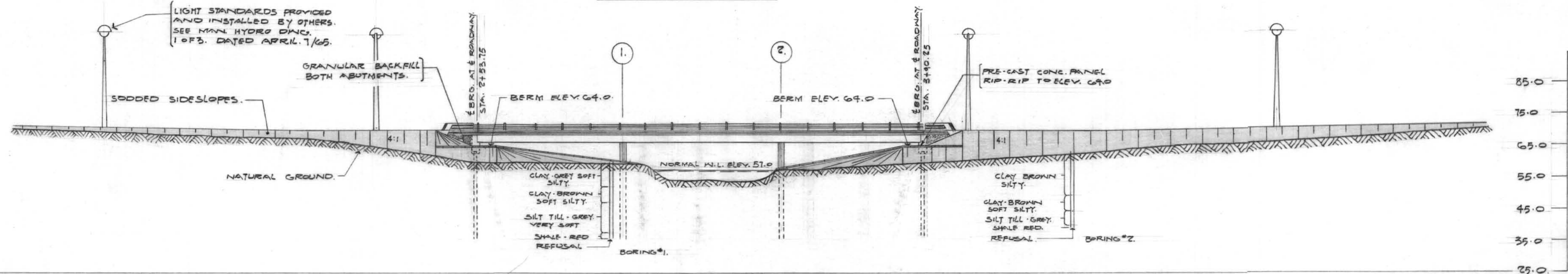
CROSS-SECTION THRU APPROACHES
SCALE 1"=10'



PROFILE ALONG LANES



LOCATION PLAN
SCALE 1"=200'



ELEVATION
SCALE 1"=20'

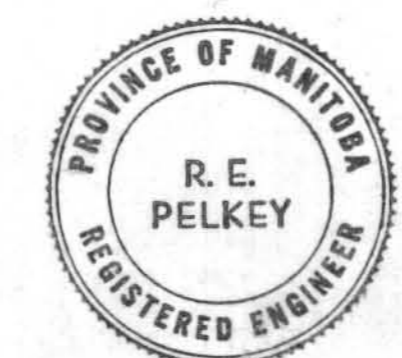
| APPROX. QUANTITIES - FOR BRIDGE | |
|--|--------------|
| EMBANKMENT MATERIAL | 8,000 C.Y. |
| GRANULAR MATERIAL | 100 C.Y. |
| PRE-CAST CONCRETE PILE (A) SUPPLY | 980 LIN. FT. |
| PRE-CAST CONCRETE PILE (B) DRIVE | 710 LIN. FT. |
| REINFORCING STEEL - HIGH STRENGTH | 70,000 LBS. |
| INTERMEDIATE GRADE | 70,000 LBS. |
| CAST IN PLACE CONCRETE: f _c : 3750 PSI. | 555 C.Y. |
| PRE-CAST CONCRETE RIP-RAP | 950 S.Y. |
| SODDING | 2000 S.Y. |
| ALUMINUM HANDRAIL | 274 LIN. FT. |
| MISC. STEEL WORK | 900 LBS. |

- GENERAL NOTES**
- DESIGN SPECIFICATIONS: A.S.H.T.O. 1961 (A.C.I. 318-63).
 - DESIGN LOADING: HS 20-44 + IMPACT.
 - CONCRETE: 3750 PSI @ 28 DAYS, ENTRAINED AIR 5 ± 1%.
 - MAX. AGGREGATE SIZE 1" UNLESS OTHERWISE NOTED.
 - REINFORCING STEEL: C.S.A. G80.1, C.S.A. G30.10 AS INDICATED. DEFORMATIONS CONFORM TO C.S.A. G30.10.
 - ALL MATERIALS WERE SUPPLIED BY THE CONTRACTOR.
 - CLEAR COVER ON STEEL: 2" EXCEPT AS FOLLOWS:
- 1" ON TOP TRANSVERSE SLAB STEEL.
- 1" ON BOTTOM TRANSVERSE SLAB STEEL.
- 3" IN ALL FOOTINGS, ON INSIDE FACES OF ABUT. WALLS.
 - SOIL BORING DATA SHOWN ON DRAWINGS IS FOR GENERAL INFORMATION ONLY, AND THE OWNER WILL NOT ACCEPT RESPONSIBILITY FOR ANY ERRORS OR INACCURACIES CONTAINED THEREIN.
 - APPROX. QUANTITIES SHOWN ARE FOR GENERAL INFORMATION ONLY. PAYMENT FOR ALL WORK WILL BE AS DEFINED IN THE SPECIFICATIONS.
 - RAILWORK WAS NOT REMOVED FROM UPPER SUPERSTRUCTURE UNTIL CASTING AND CURING OF CONCRETE HAD BEEN COMPLETED. THE DEAD LOAD WAS TRANSFERRED BY THE LOSSENING OF WEDGES.
 - ALL ELEVATIONS GIVEN ARE GEODETIC MINUS 700.00.

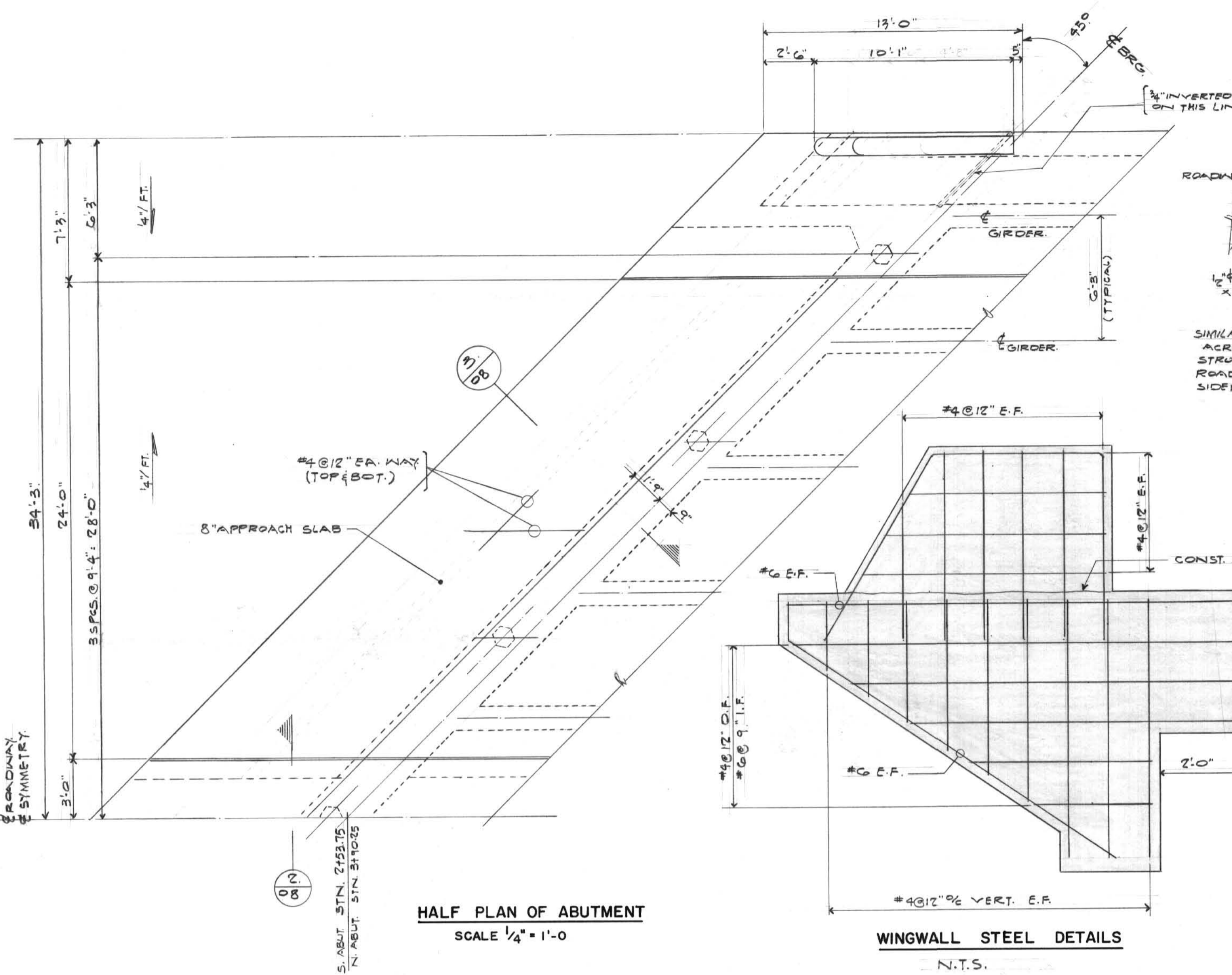
THE METROPOLITAN CORPORATION OF
GREATER WINNIPEG
STREETS AND TRAFFIC DEPARTMENT
RECORD DRAWING
STURGEON ROAD BRIDGE
GENERAL LAYOUT

B-5036

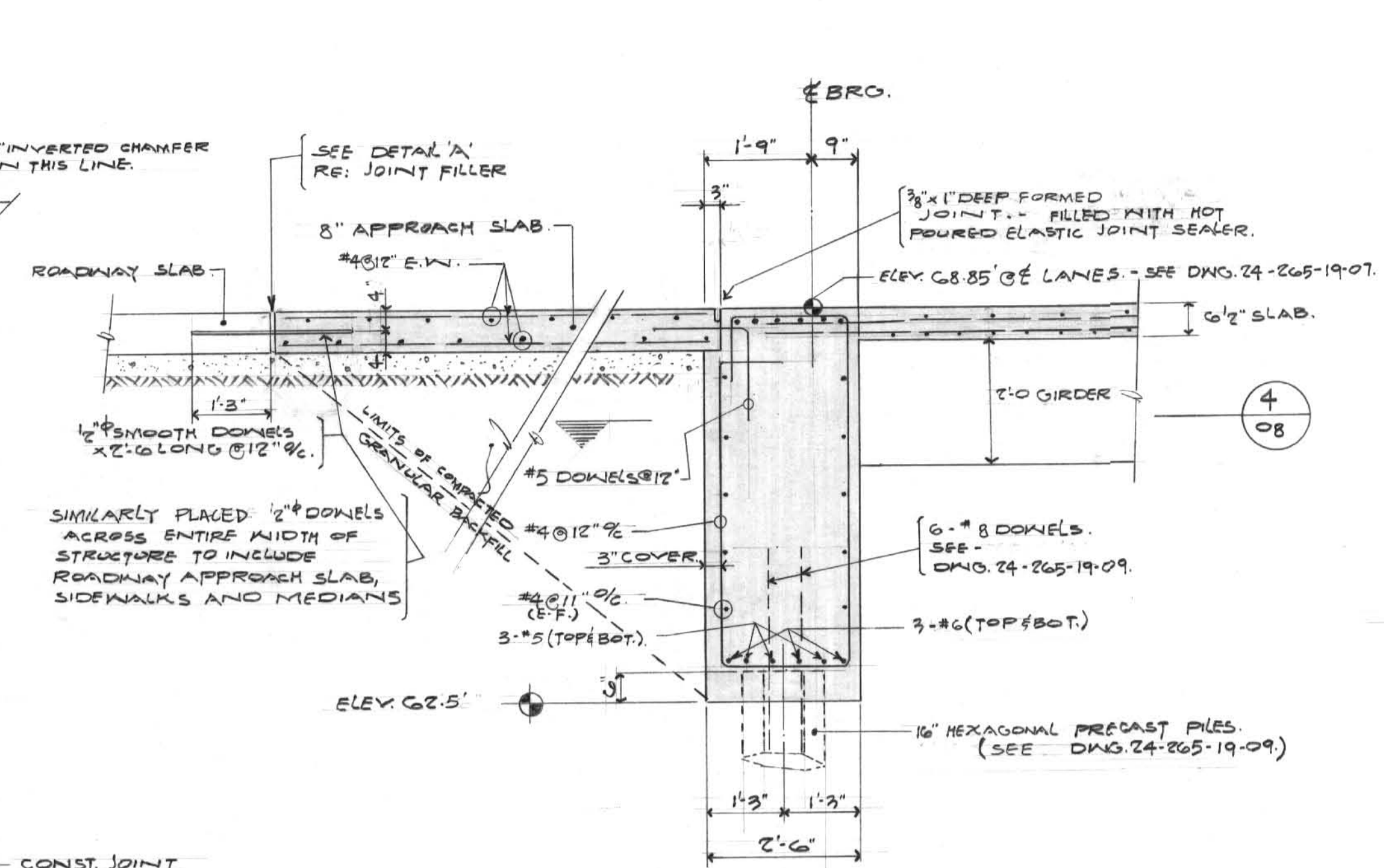
APPROVED BY: *[Signature]*
STREETS AND TRAFFIC ENGINEER
DRAWN BY: D.K.
TRACED BY: R.E.P.
CHECKED BY: R.E.P.
DESIGNED BY: J.P.D.
LAYOUT BY: *[Signature]*
SHEET 7 OF 12
DATE: MAY 12/65
APPROVED BY: *[Signature]*
DATE: MAY 12/65
SCALE: AS SHOWN
DWG. NO. 24-265-19-07



| NO. | DESCRIPTION | DATE | BY |
|-----|-------------|------|----|
| | | | |
| | | | |
| | | | |
| | | | |

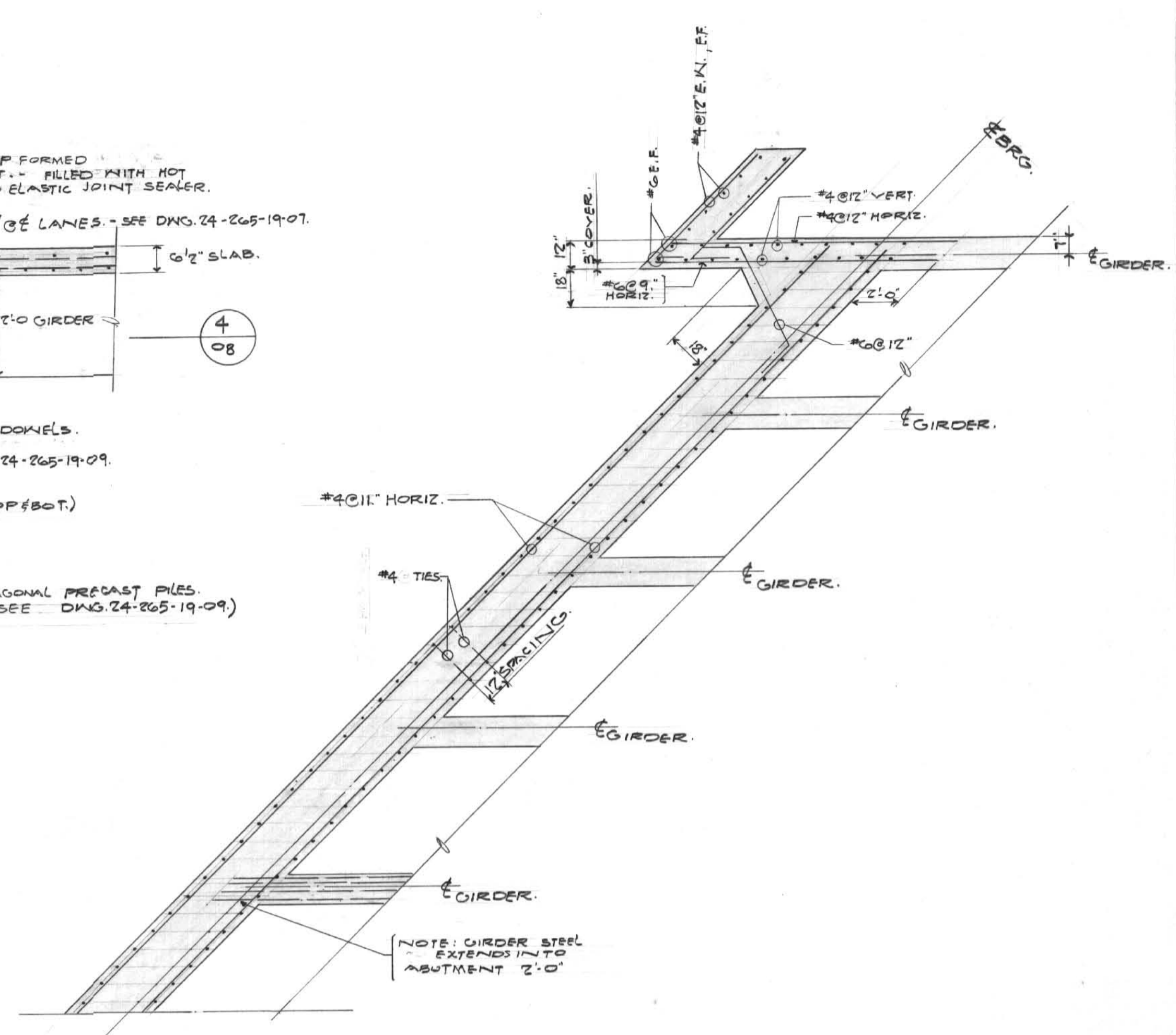


HALF PLAN OF ABUTMENT
SCALE 1/4" = 1'-0"



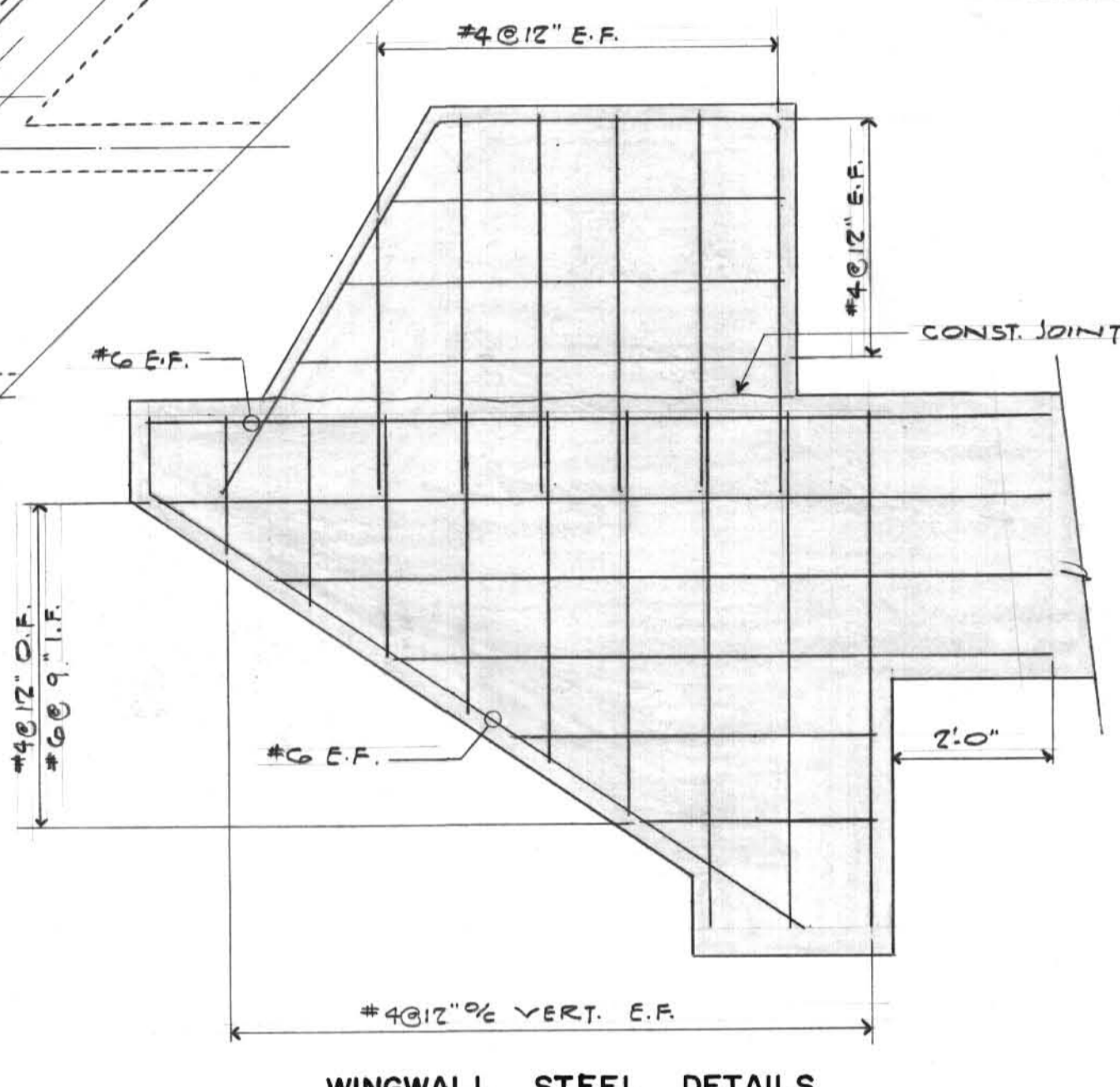
SCALE 1/2" = 1'-0"

DETAIL 'A'
SCALE 1/2" = 1'-0"

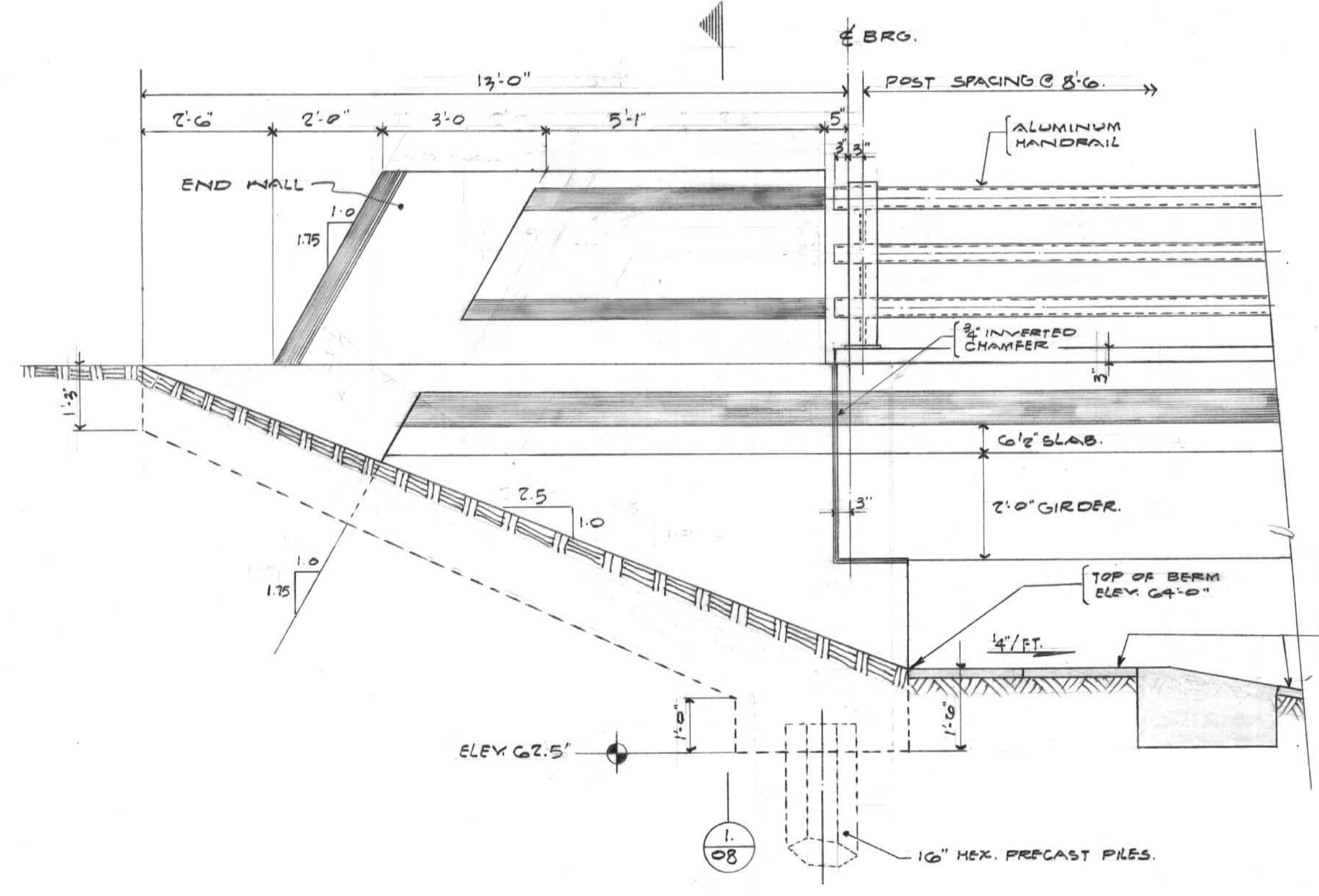


STEEL DETAIL PLAN

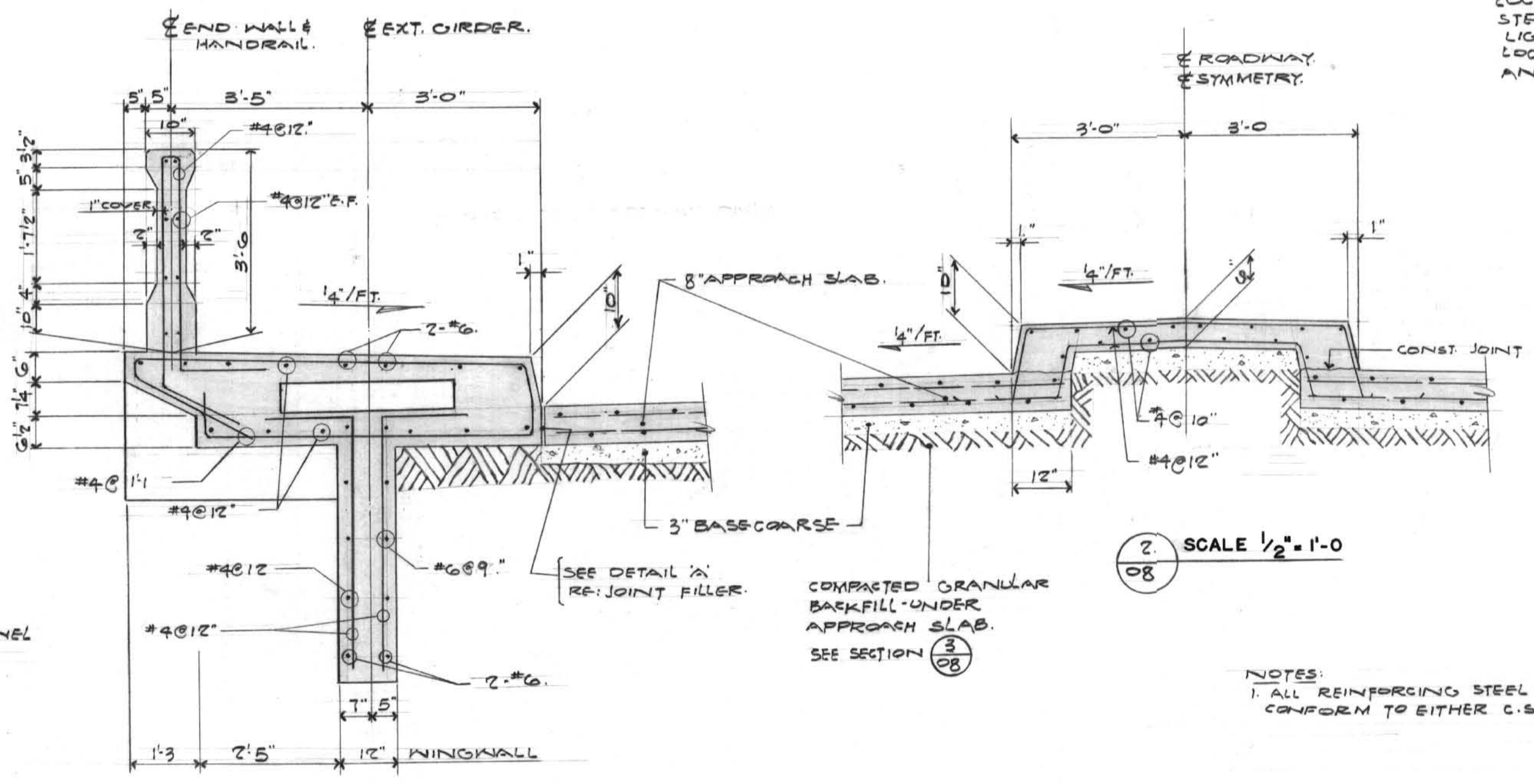
SCALE 1/4" = 1'-0"



WINGWALL STEEL DETAILS
N.T.S.

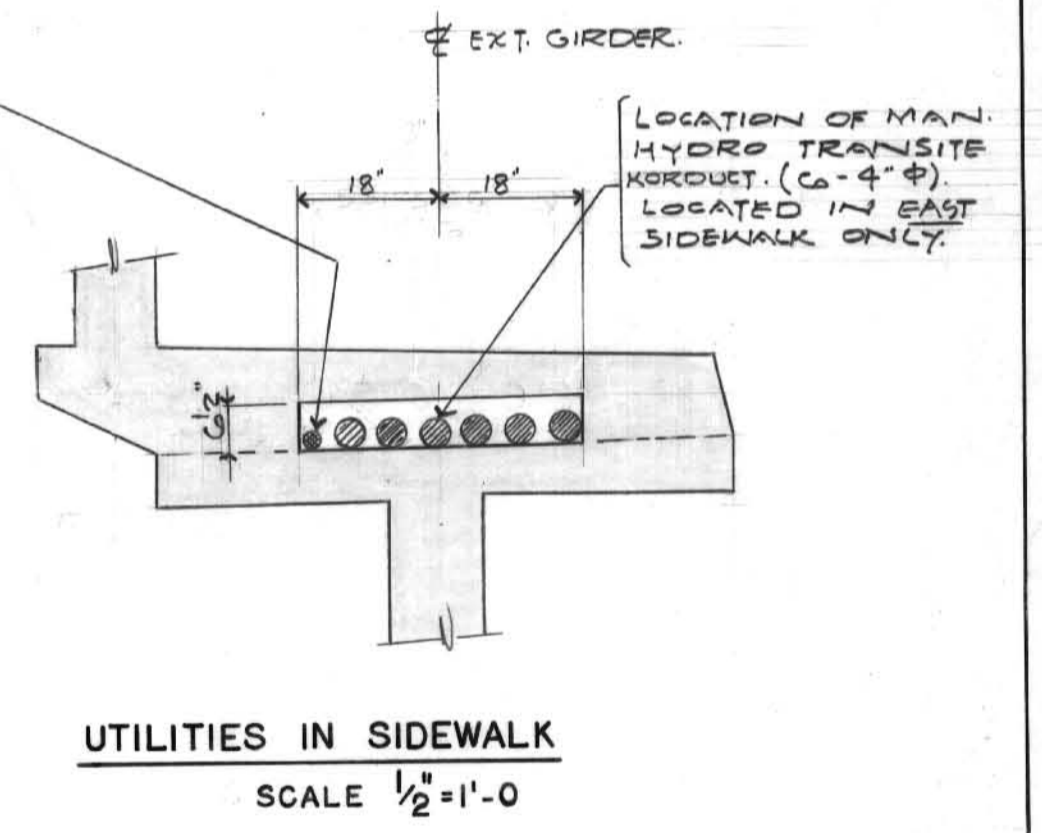


SIDE ELEVATION
SCALE 1/2" = 1'-0"



SCALE 1/2" = 1'-0"

SCALE 1/2" = 1'-0"



UTILITIES IN SIDEWALK
SCALE 1/2" = 1'-0"

NOTES:
1. ALL REINFORCING STEEL SHOWN HEREON DID CONFORM TO EITHER C.S.A. G30:1 OR C.S.A. G30:10.



| NO. | DESCRIPTION | DATE | BY |
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THE METROPOLITAN CORPORATION OF
GREATER WINNIPEG
STREETS AND TRAFFIC DEPARTMENT

RECORD DRAWING
STURGEON ROAD BRIDGE
ABUTMENT DETAILS

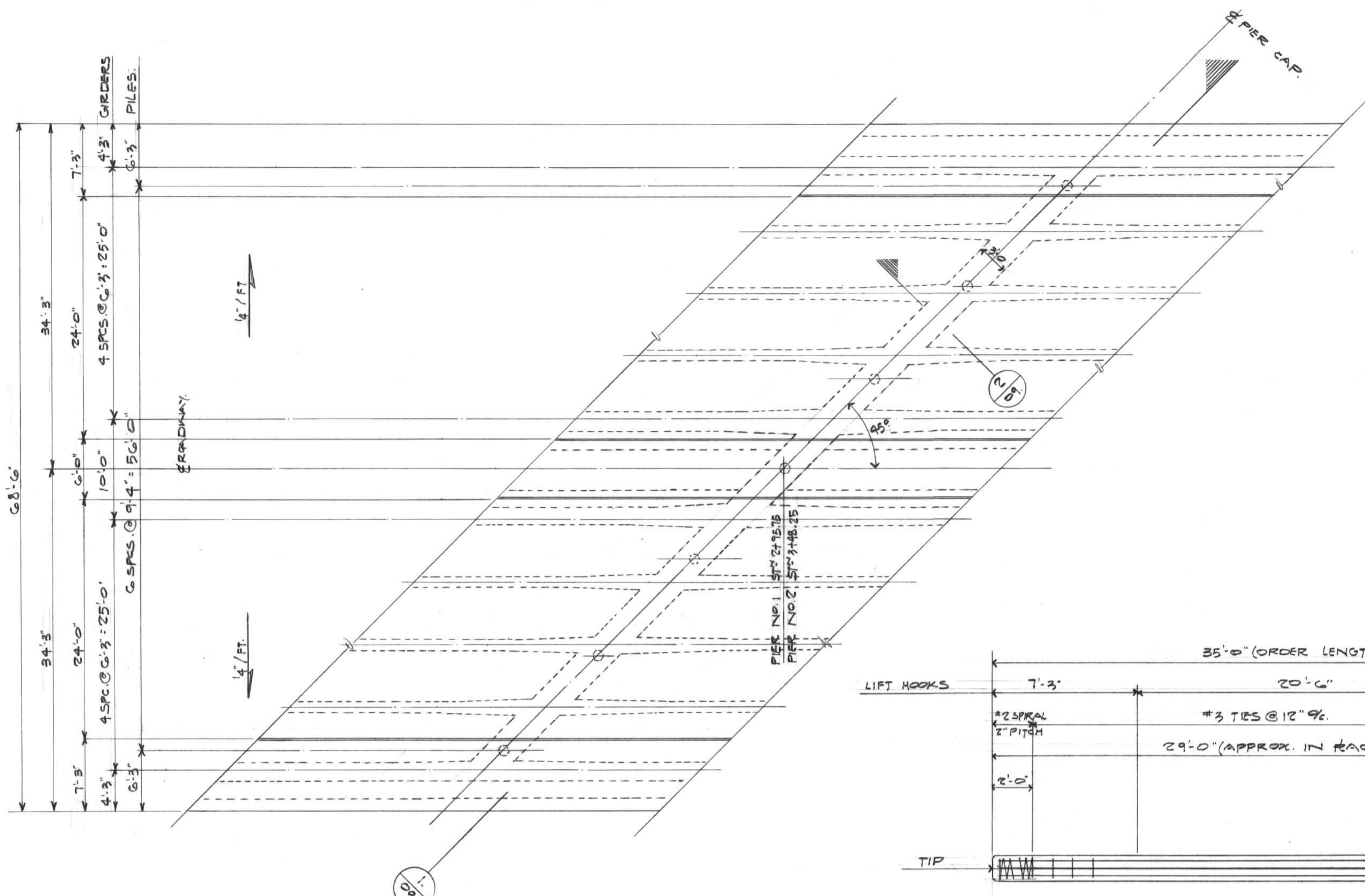
B-5037

APPROVED BY: *W. K. Sullivan*
STREETS AND TRAFFIC ENGINEER

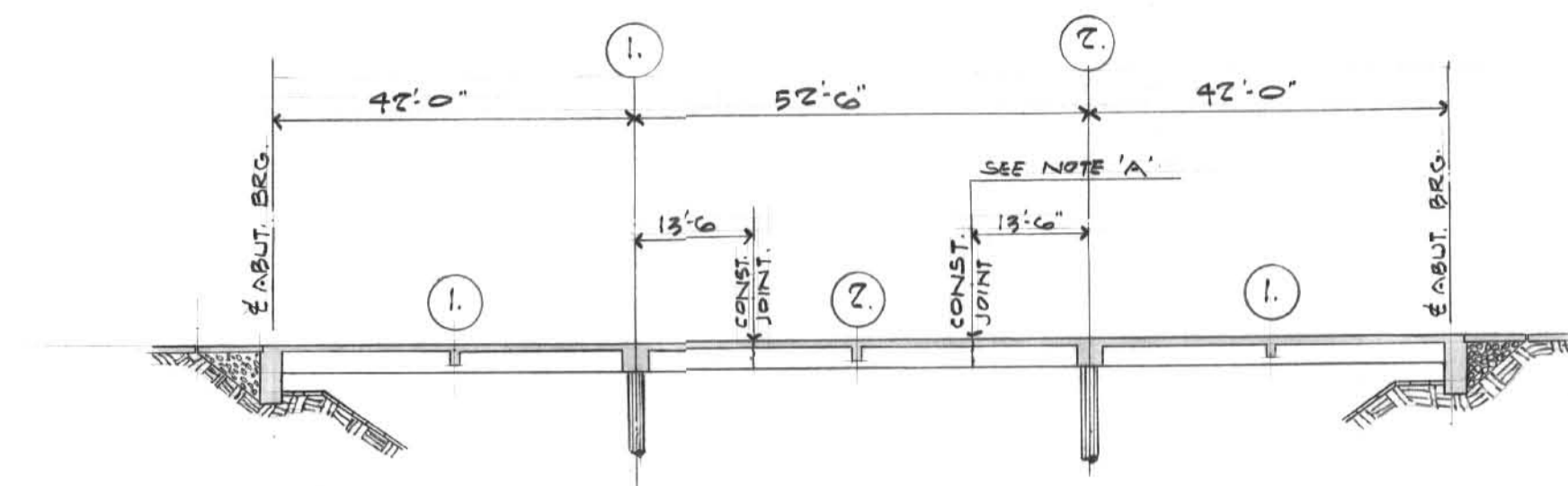
DRAWN BY: D.K.
TRACED BY: R.E.P.
DESIGNED BY: J.P.D.
LAYOUT BY: *R. Hood*

UNDERWOOD McLELLAN & ASSOCIATES LIMITED
CONSULTING PROFESSIONAL ENGINEERS
CALGARY REGINA SASKATOON WINNIPEG

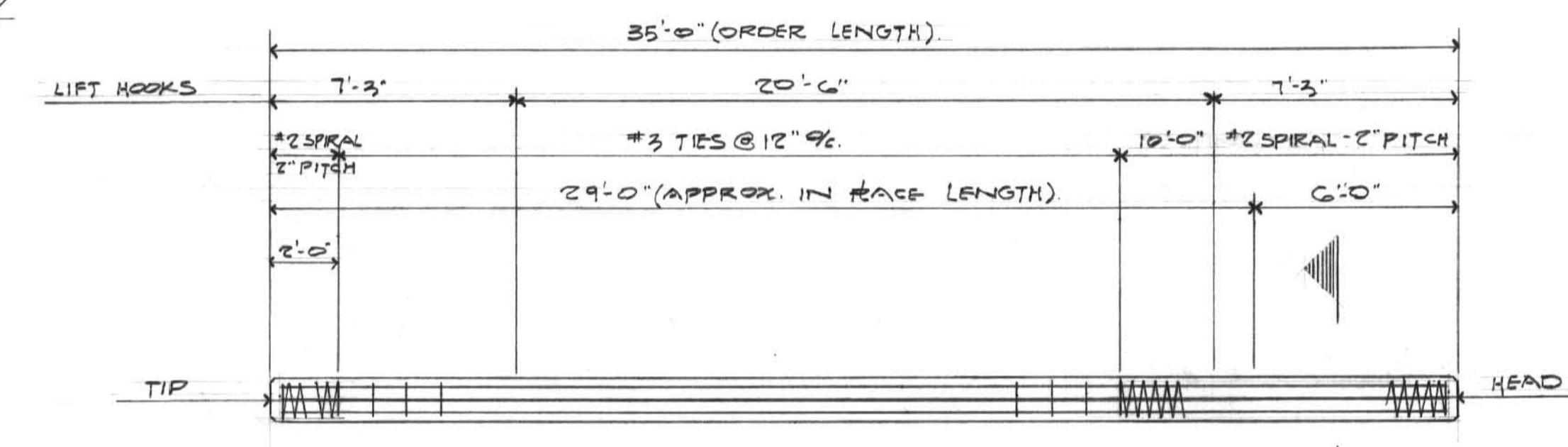
SHEET 8 OF 12
APPROVED BY: *R. Hood* DATE: MAY 12/65
SCALE: AS SHOWN
DWG. NO. 24-265-19-08



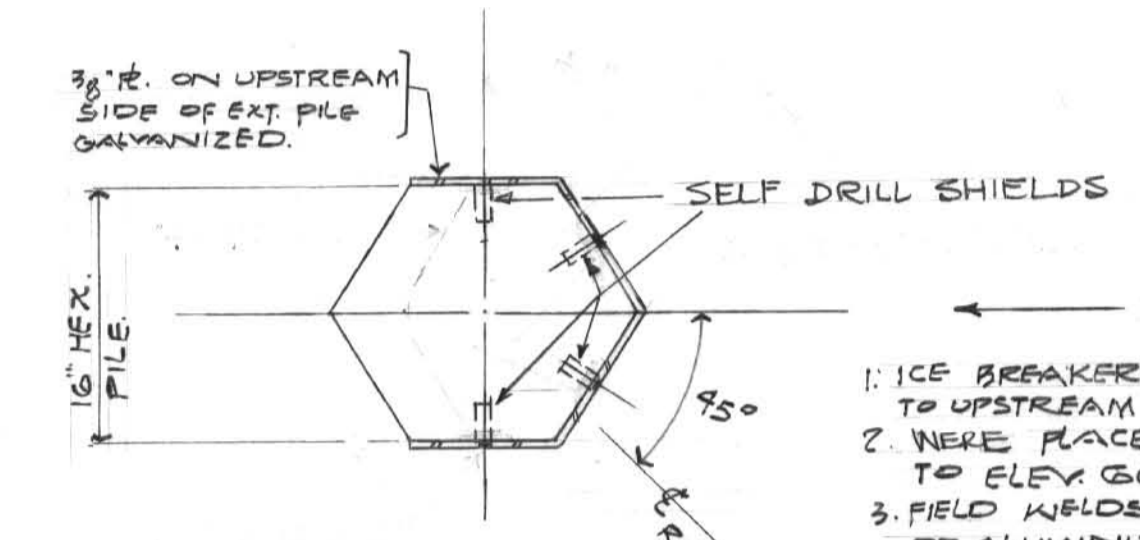
PLAN OF BENT CAP
SCALE 1/8" = 1'-0"



POUR SCHEDULE
NOTE 'A': VERTICAL CONSTRUCTION JOINTS IN GIRDERS & SLABS ARE LOCATED AS SHOWN, 18'-6" INTO SPANS FROM E BENT AS INDICATED.

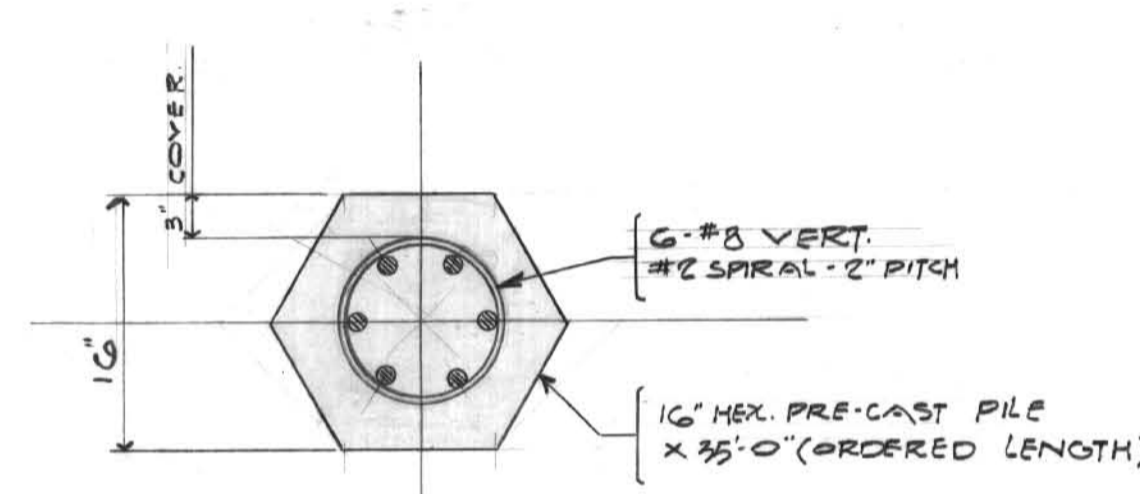


ELEVATION OF PRE-CAST PILE
SCALE 1/4" = 1'-0"

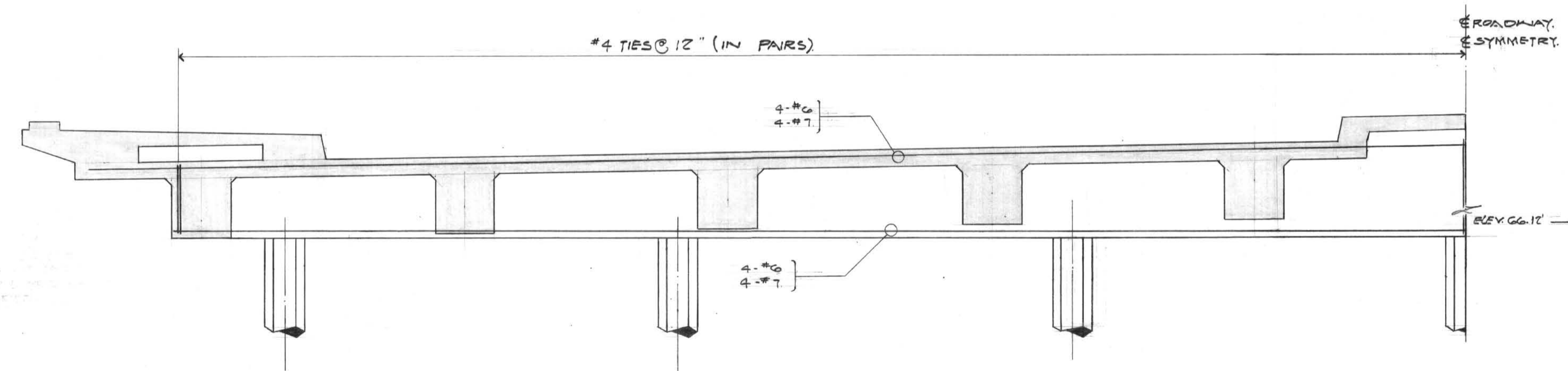


PIER ICE BREAKERS
SCALE 1" = 1'-0"

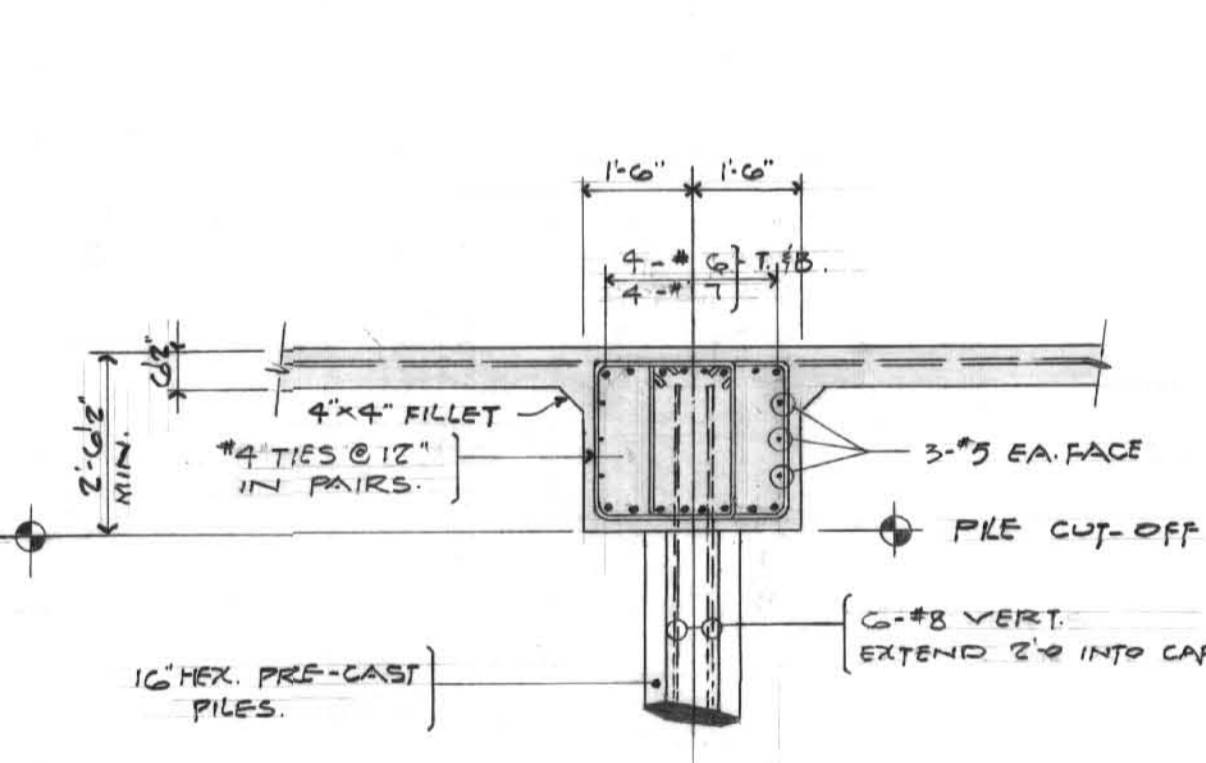
- 1. ICE BREAKERS - WERE SUPPLIED TO UPSTREAM PILES ONLY (2-REQ'D)
- 2. WERE PLACED FROM ELEV. 57.0' TO ELEV. 66.0'
- 3. FIELD WELDS RECEIVED 2-COATS OF ALUMINUM PAINT.



SCALE 1" = 1'-0"



SCALE 3/8" = 1'-0"



SCALE 3/8" = 1'-0"

NOTE:
1. ALL REINFORCING STEEL SHOWN HEREON DID CONFORM TO C.S.A. G30.10
2. CONCRETE:
PRE-CAST PILES - f_c = 5000 P.S.I. @ 28 DAYS.
ALL OTHER CONC. - f_c = 3750 P.S.I. @ 28 DAYS.



| NO. | DESCRIPTION | DATE | BY |
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THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRAFFIC DEPARTMENT

RECORD DRAWING
STURGEON ROAD BRIDGE
PIER BENT DETAILS
B-5038

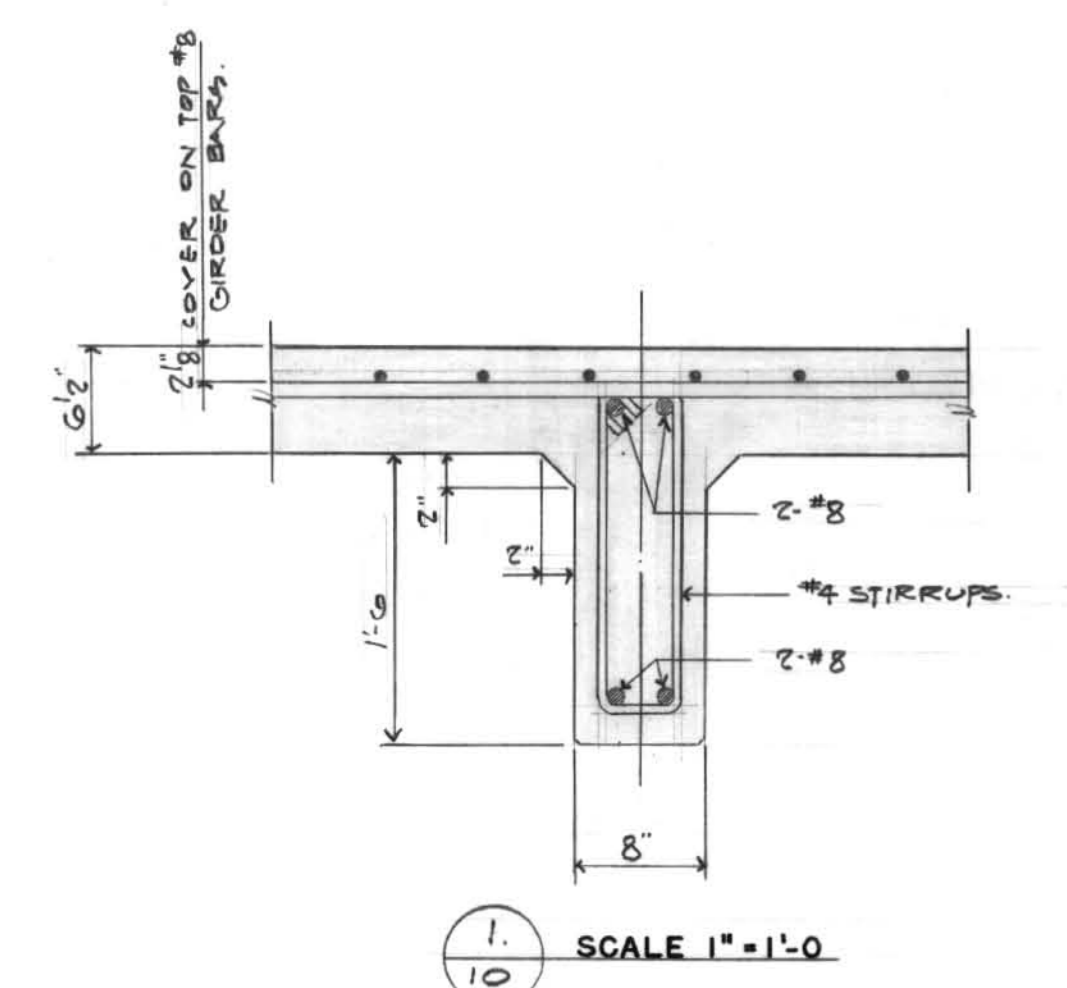
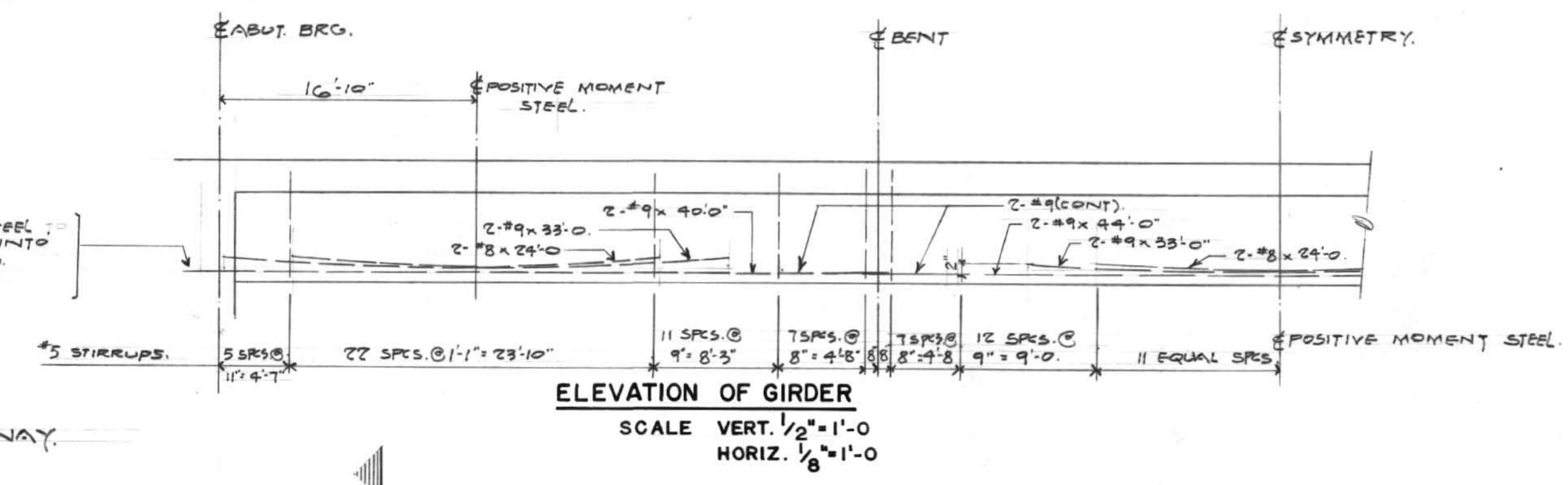
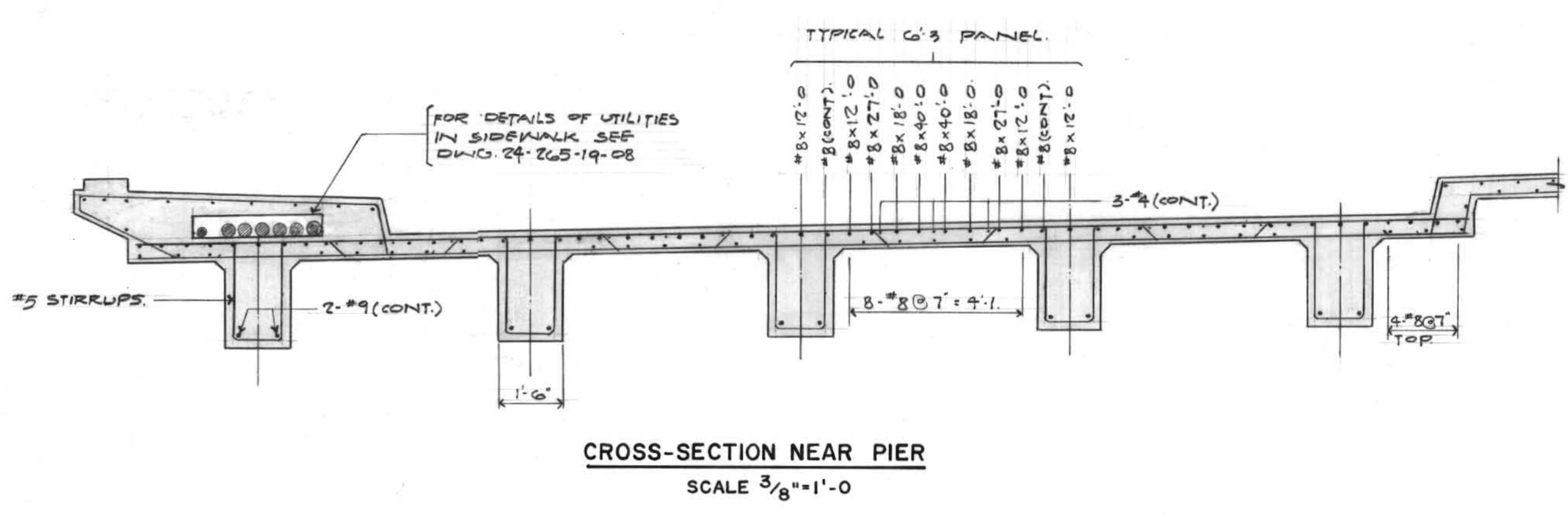
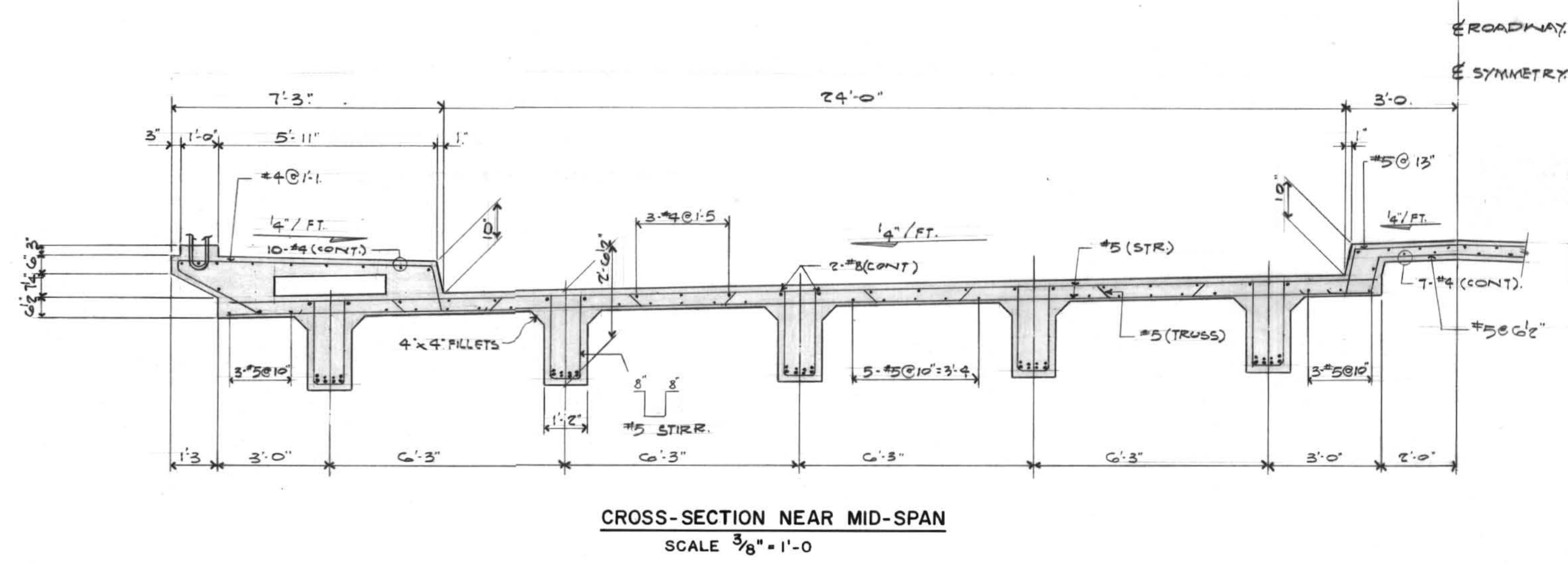
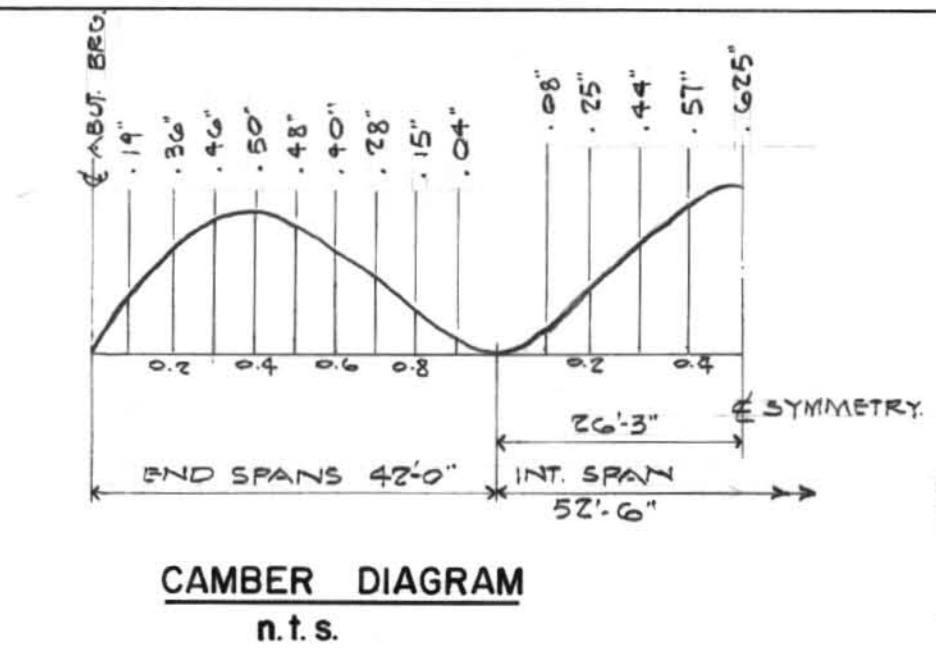
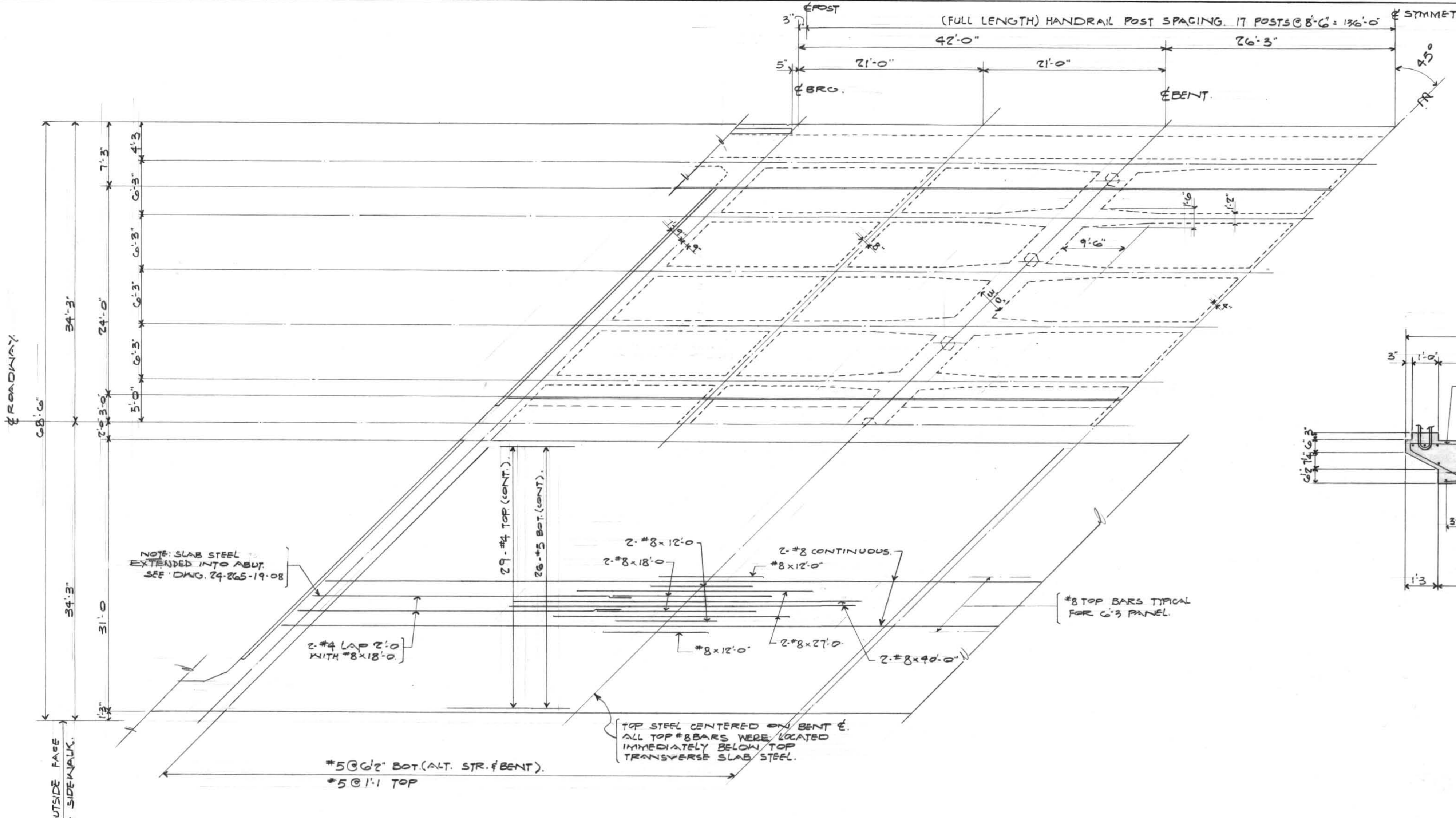
APPROVED BY: *W. K. Sturgeson*
STREETS AND TRAFFIC ENGINEER

DRAWN BY: D.D.K.
TRACED BY: R.E.P.
CHECKED BY: R.E.P.
DESIGNED BY: J.P.D.
LAYOUT BY: *R. Hood*

UNDERWOOD McLELLAN & ASSOCIATES LIMITED
CONSULTING PROFESSIONAL ENGINEERS
CALGARY REGINA SASKATOON WINNIPEG

SHEET 9 OF 12
APPROVED BY: *AB*
DATE: MAY 12/65

SCALE: AS SHOWN
DWG. NO. 24-265-19-09



NOTE -
1. REINFORCING STEEL - ALL BARS LARGER THAN #5 CONFORM TO C.S.A. C30.10 ALSO THE #5 GIERER STIRRUPS DID CONFORM TO C.S.A. C30.10
2. ALL OTHER STEEL WAS SUPPLIED TO EITHER C.S.A. C30.1 OR C.S.A. C30.10

THE METROPOLITAN CORPORATION OF
GREATER WINNIPEG
STREETS AND TRAFFIC DEPARTMENT

RECORD DRAWING
STURGEON ROAD BRIDGE
SLAB & GIRDER DETAILS
B-5039

APPROVED BY
W. J. Stuenkel
STREETS AND TRAFFIC ENGINEER

DRAWN BY D.K.
TRACED BY
CHECKED BY R.E.P.
DESIGNED BY J.P.D.
LAYOUT BY
SHEET 10 OF 12
SCALE - AS SHOWN

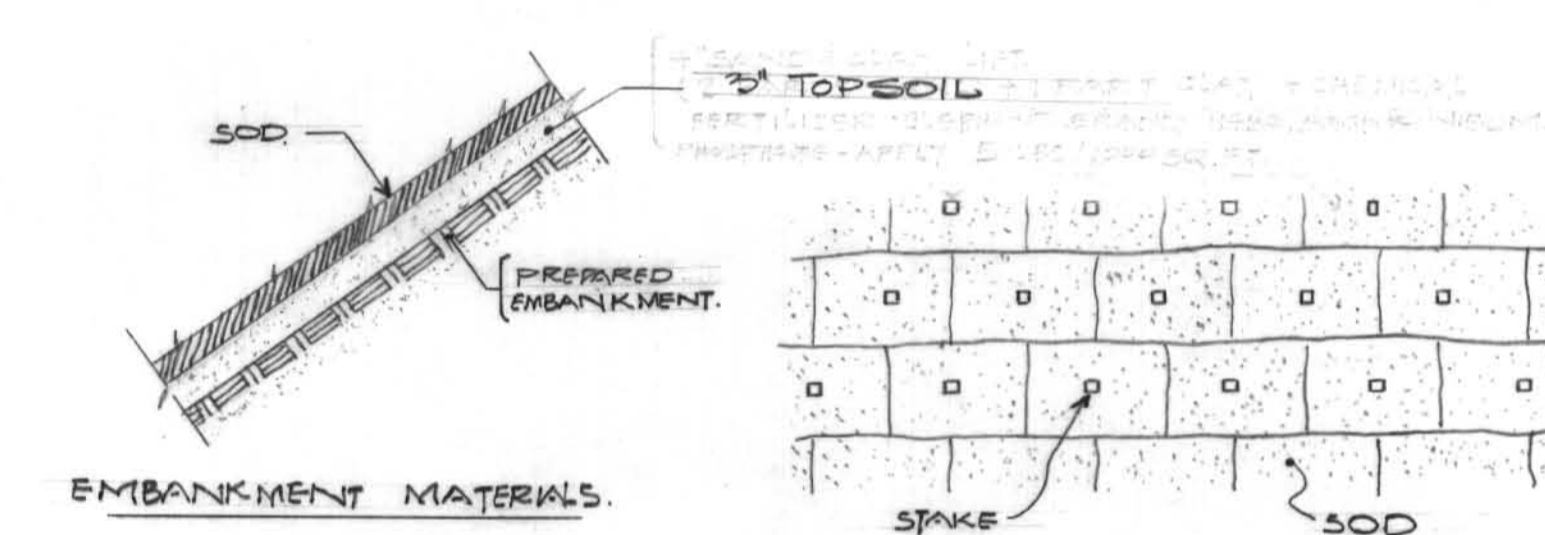
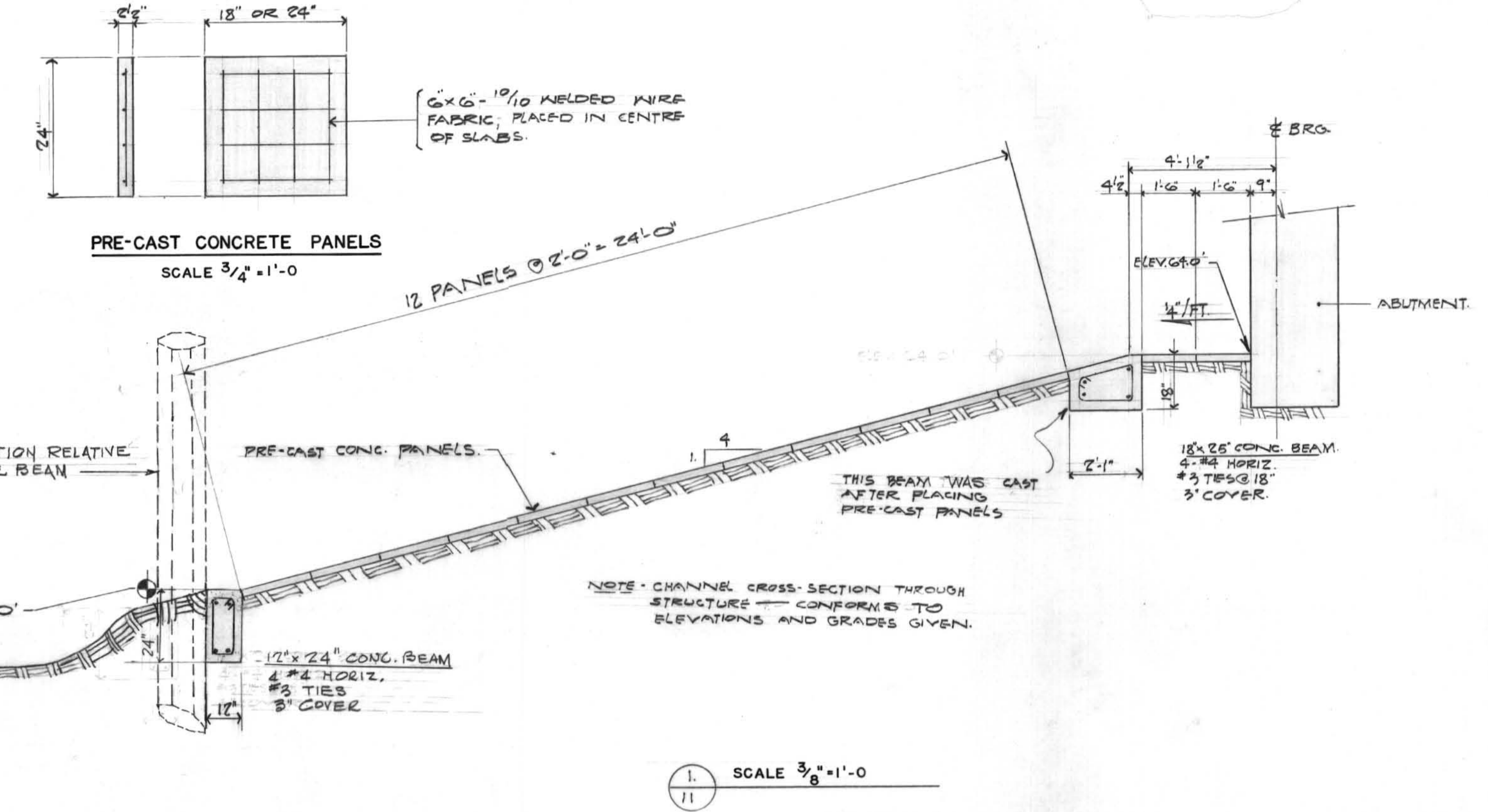
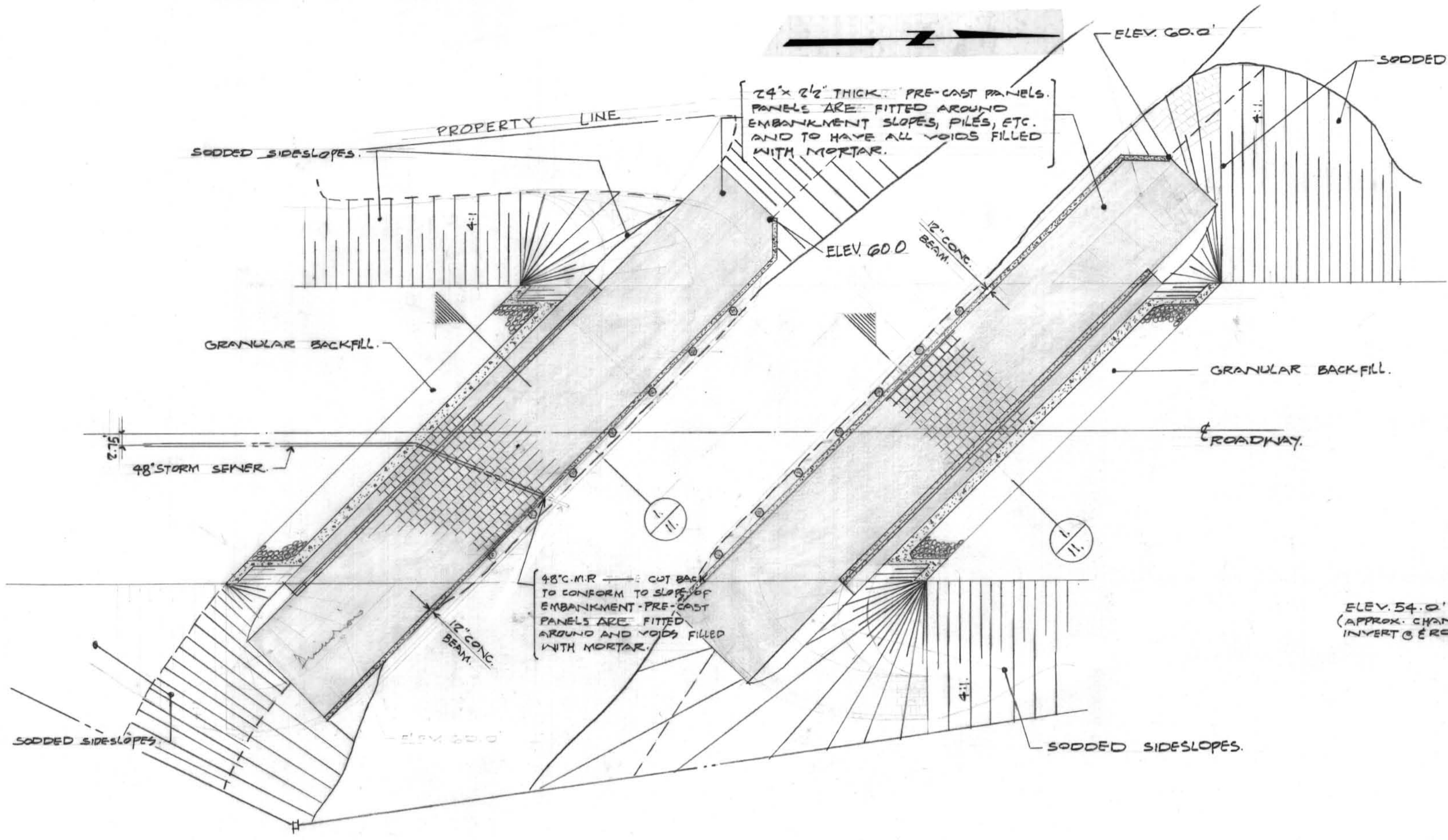
UNDERWOOD McLELLAN & ASSOCIATES LIMITED
CONSULTING PROFESSIONAL ENGINEERS
CALGARY REGINA SASKATOON WINNIPEG

l. Hood
DATE MAY 12/65

APPROVED BY
DATE
DWG. NO 24-265-19-10

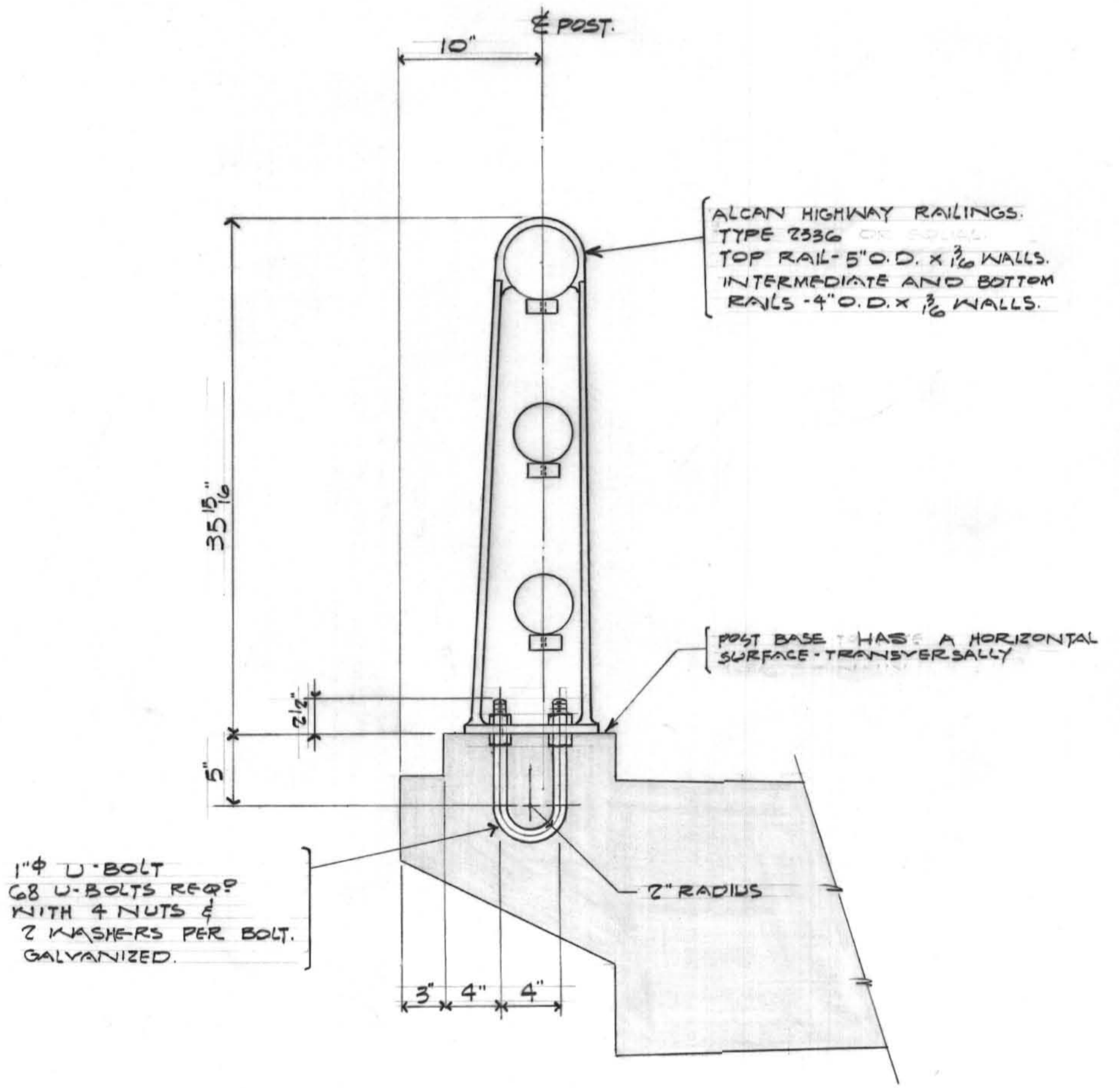


| NO. | DESCRIPTION | DATE | BY |
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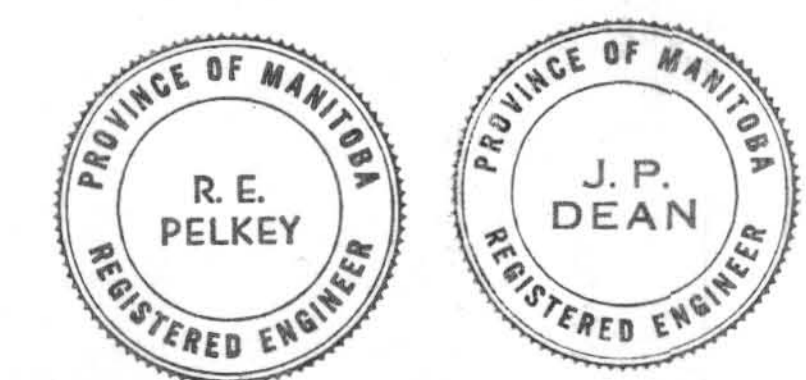


- SODDING WAS EXTENDED TO EDGE OF ROUNDING AND WAS COUNTERSUNK TO EXISTING GRADE LEVELS AT EDGES OF SHOULDERS AND DITCHES TO ALLOW FREE FLOW OF WATER ACROSS THE JOINT BETWEEN EXISTING GRADE AND NEW SODDING.
- PEGGING OF SODS WAS WITH STAKES - 1/2" x 1/4" x 12" (LONGER IF NECESSARY TO SECURE SODS.)
- ON SLOPES OF 1 1/2:1 AND LESS, EVERY SOD WAS STAKED IN THE BOTTOM THREE ROWS AND IN EVERY THIRD ROW ABOVE.
- STAKES WERE DRIVEN FLUSH BUT NO DEEPER.
- THE SPACE BETWEEN STAKES, REGARDLESS OF SOD SIZE, DID NOT EXCEED 24" HORIZONTALLY.

SODDING OF SIDESLOPES
NOT TO SCALE



NOTES:
1. ALL CONCRETE SHOWN HEREON WAS 3000 P.S.I. @ 28 DAYS.
2. ALL REINFORCING STEEL DID CONFORM TO C.S.A. G30.1



| NO. | DESCRIPTION | DATE | BY |
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THE METROPOLITAN CORPORATION OF GREATER WINNIPEG
STREETS AND TRAFFIC DEPARTMENT

RECORD DRAWING
STURGEON ROAD BRIDGE
PRE-CAST PANELS, SODDING AND HANDRAIL DETAILS
B-5040

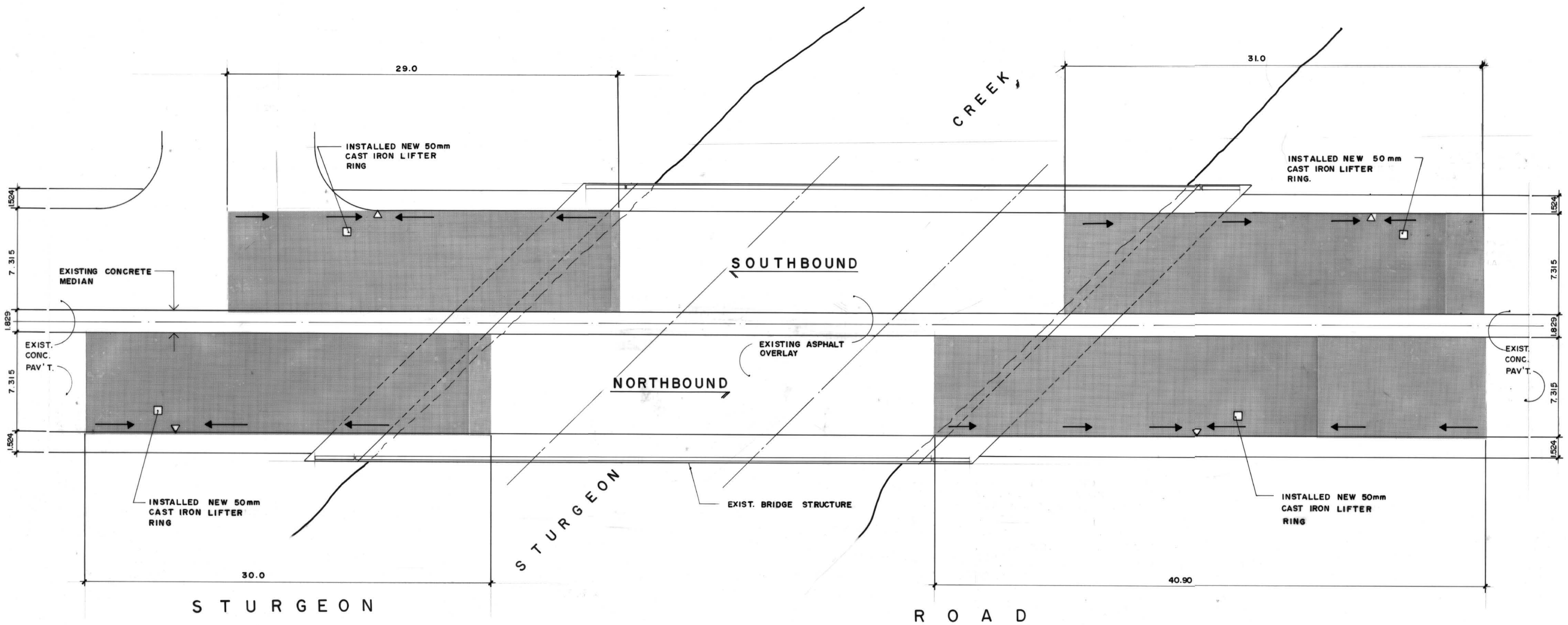
APPROVED BY: *W. K. Stambogian*
STREETS AND TRAFFIC ENGINEER

DRAWN BY D.K.
TRACED BY
CHECKED BY R.E.P.
DESIGNED BY J.P.D.
LAYOUT BY *A. Hood*

UNDERWOOD McLELLAN & ASSOCIATES LIMITED
CONSULTING PROFESSIONAL ENGINEERS
CALGARY REGINA SASKATOON WINNIPEG

SHEET 11 OF 12
APPROVED BY: *A. Hood*
DATE: MAY 12 / 65

SCALE: AS SHOWN
DWG. NO. 24-265-19-11AB



LEGEND

- 0 - 50mm OF EXISTING ASPHALT OVERLAY WAS REMOVED AND RESURFACED WITH NEW 50 - 75 mm ASPHALT OVERLAY.
- CURB INLET
- CATCH BASIN
- DIRECTION OF DRAINAGE

NOTE:
 JOINT AND CRACK CLEANING AND SEALING WAS DONE WITHIN THE LIMITS OF THE NEW ASPHALT OVERLAY

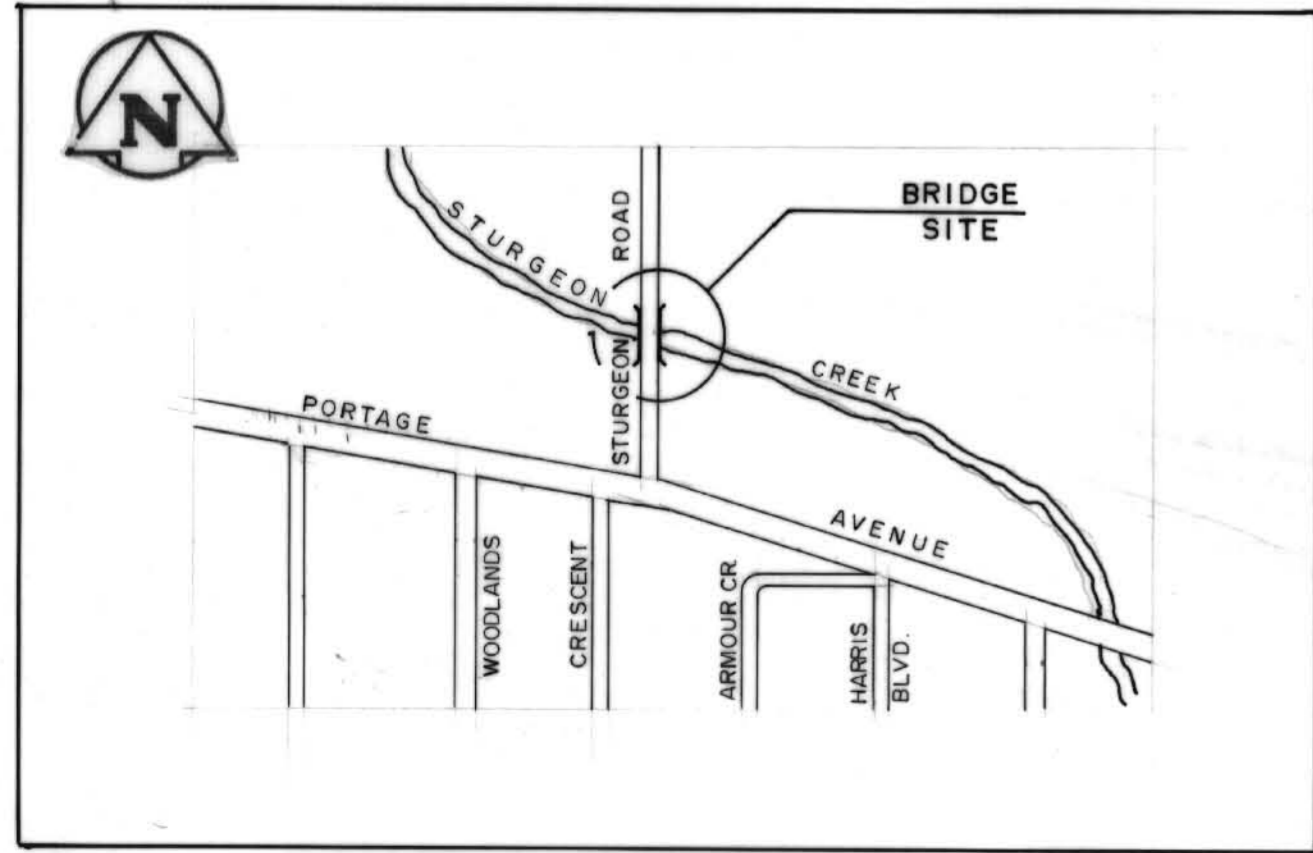
QUANTITIES

| | | |
|---------------------|-----|---------|
| CRACKS | 50 | LIN. M. |
| TRAVERSE JOINTS | 270 | LIN. M. |
| LONGITUDINAL JOINTS | 20 | LIN. M. |

REID, CROWTHER & PARTNERS LIMITED
 WINNIPEG

AS CONSTRUCTED

SIG. *[Signature]* DATE *Nov 21/85*

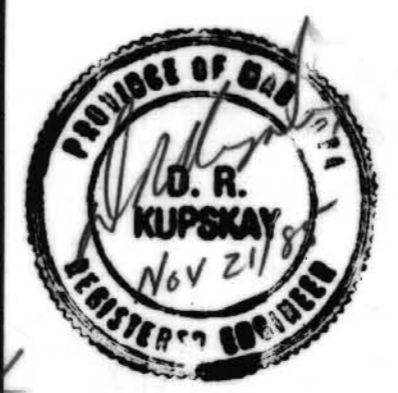


LOCATION PLAN
 N. T. S.

B-5535
 METRIC

WHOLE NUMBERS INDICATE MILLIMETRES
 DECIMALIZED NUMBERS INDICATE METRES

| | | | |
|-----|----------------|----------|------|
| NO. | AS CONSTRUCTED | 85 11 17 | DATE |
| | REVISIONS | | APP. |



Reid Crowther
 Reid Crowther & Partners Ltd.
 Engineers-Planners-Surveyors

| | |
|--------------------------|-----------------------|
| DESIGNED BY: D. R. K. | DRAWN BY: R. T. P. |
| CHECKED BY: D. R. K. | DATE: 85 11 17 |
| APPROVED BY: | DATE: |

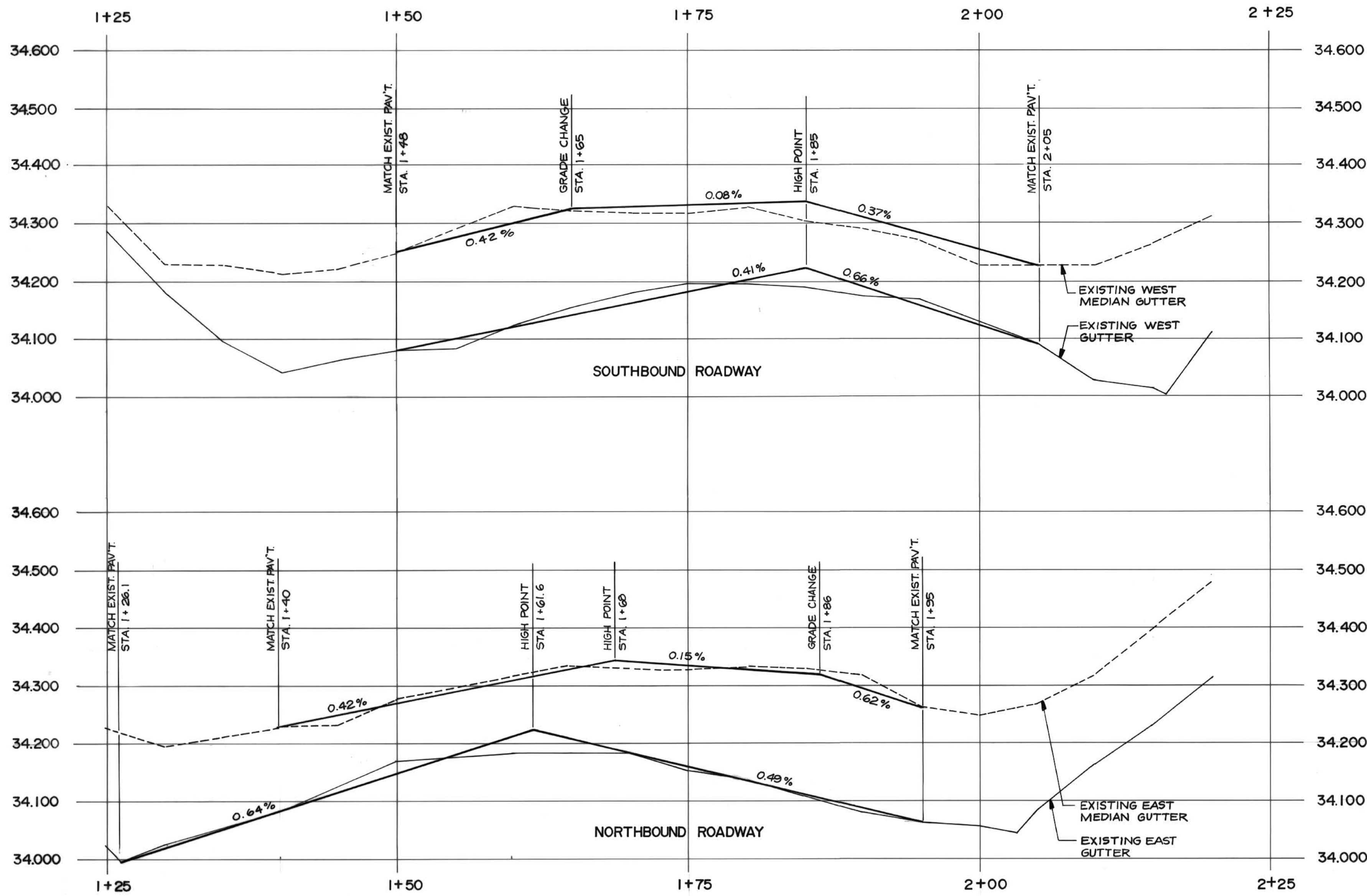
THE CITY OF WINNIPEG

WORKS & OPERATIONS
 DIVISION
 STREETS & TRANSPORTATION
 DEPARTMENT

BRIDGE MAINTENANCE
 PHASE 8302C
 MISCELLANEOUS ASPHALT
 RESURFACING WORKS

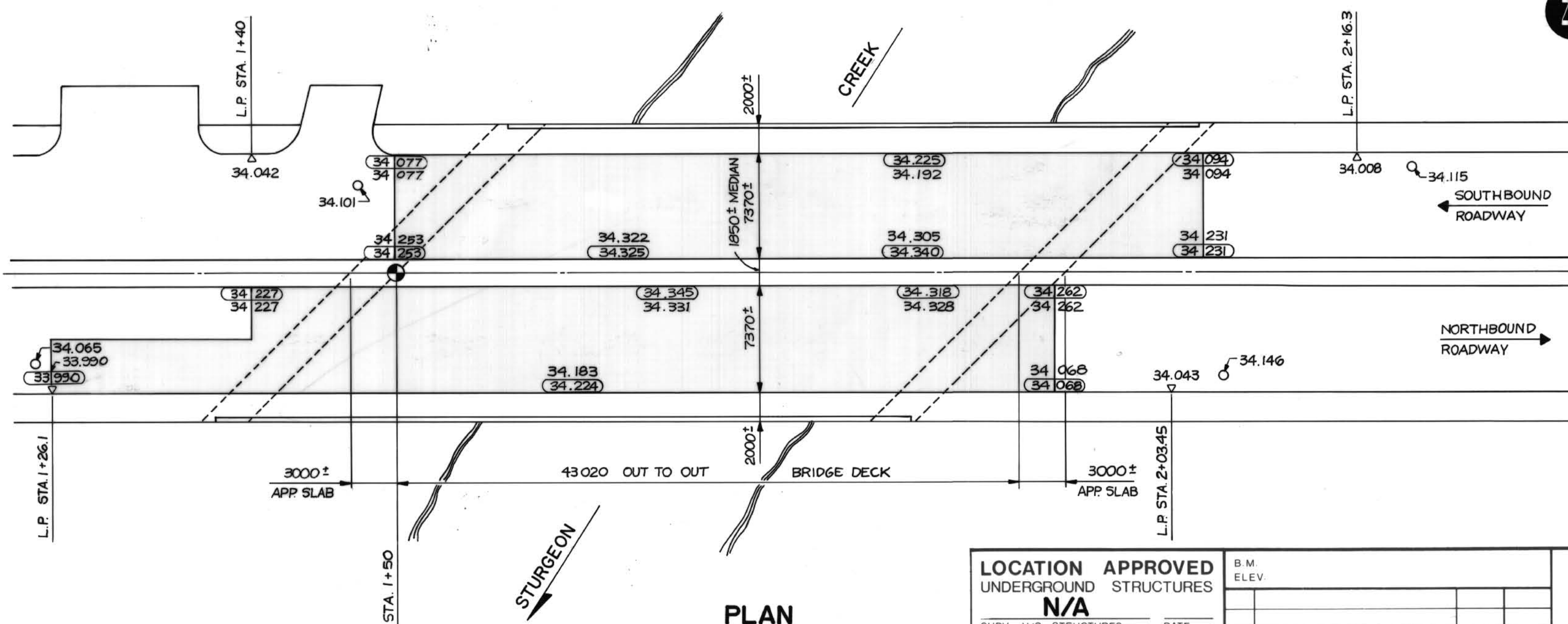
**STURGEON CREEK BRIDGE
 AT STURGEON ROAD**

| | | |
|----------------|----------------------------|------------------------|
| AUTHORIZED BY: | STREETS & BRIDGES ENGINEER | DATE |
| ACCEPTED BY: | BRIDGE ENGINEER | DATE |
| SCALE: | N. T. S. | DRAWING NO. B120-85-01 |

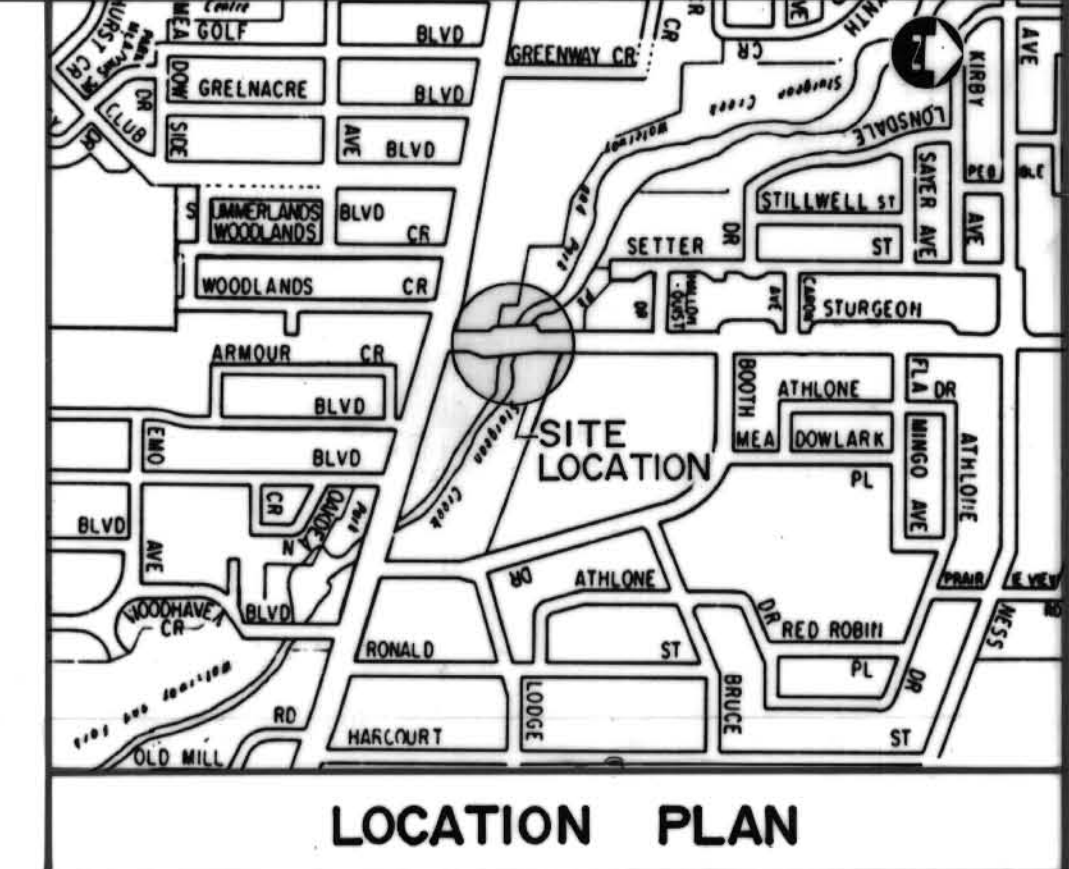


ROADWAY PROFILE

HORIZ. 1 : 250
VERT. 1 : 5



PLAN
1 : 250



LOCATION PLAN

- NOTES:**
1. PLANING ON THE BRIDGE DECK SHALL REMOVE ALL ASPHALT OVERLAY TO THE CONCRETE DECK SURFACE.
 2. ASPHALT OVERLAY ON APPROACH SLABS AND ROADWAY SHALL BE PLANNED TO RECEIVE A MINIMUM 50 mm NEW ASPHALT OVERLAY
 3. SAWCUT ALL FINISHED EDGES A MINIMUM 40 mm DEEP.

RECORD DRAWING
APPROVED BY: *[Signature]* DATE: 22.08.92

LOCATION APPROVED UNDERGROUND STRUCTURES
N/A
SUPV. U/G STRUCTURES COMMITTEE DATE
NOTE:
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

| B.M. ELEV. | NO. | REVISIONS | DATE | BY |
|------------|-----|-----------|------|----|
| | | | | |
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DILLON
Consulting Engineers • Planners
Environmental Scientists

| | |
|----------------------|---------------------------------|
| DESIGNED BY: B.A.N. | CHECKED BY: B.W.S. |
| DRAWN BY: L.L.G. | APPROVED BY: <i>[Signature]</i> |
| HOR. SCALE: AS NOTED | DATE: 22.08.92 |
| VERTICAL: AS NOTED | DATE: 22.08.92 |

ENGINEER'S SEAL
PROVINCE OF MANITOBA
22.08.92
B.A.J. NEIRINCK
REGISTERED PROFESSIONAL ENGINEER

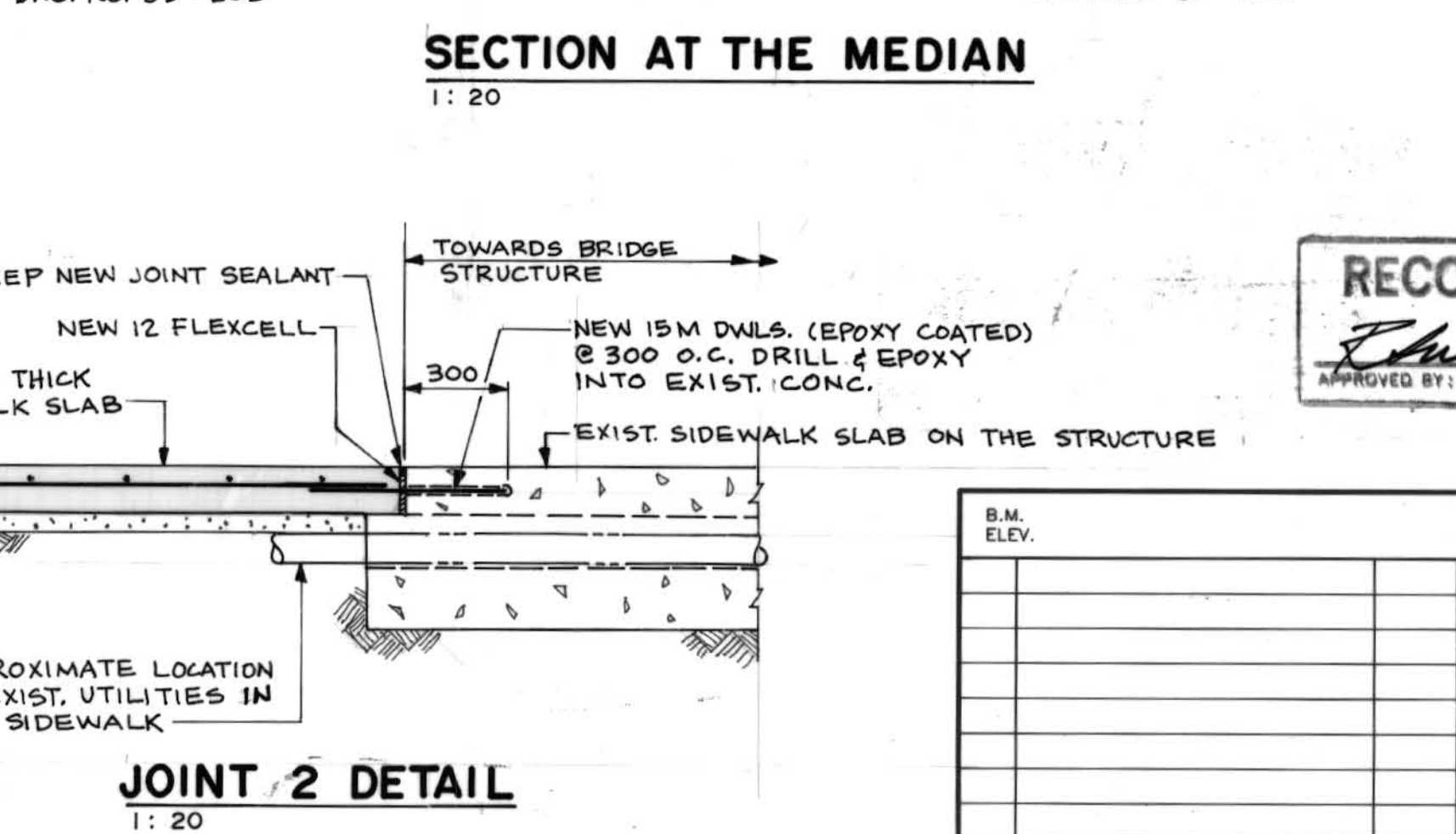
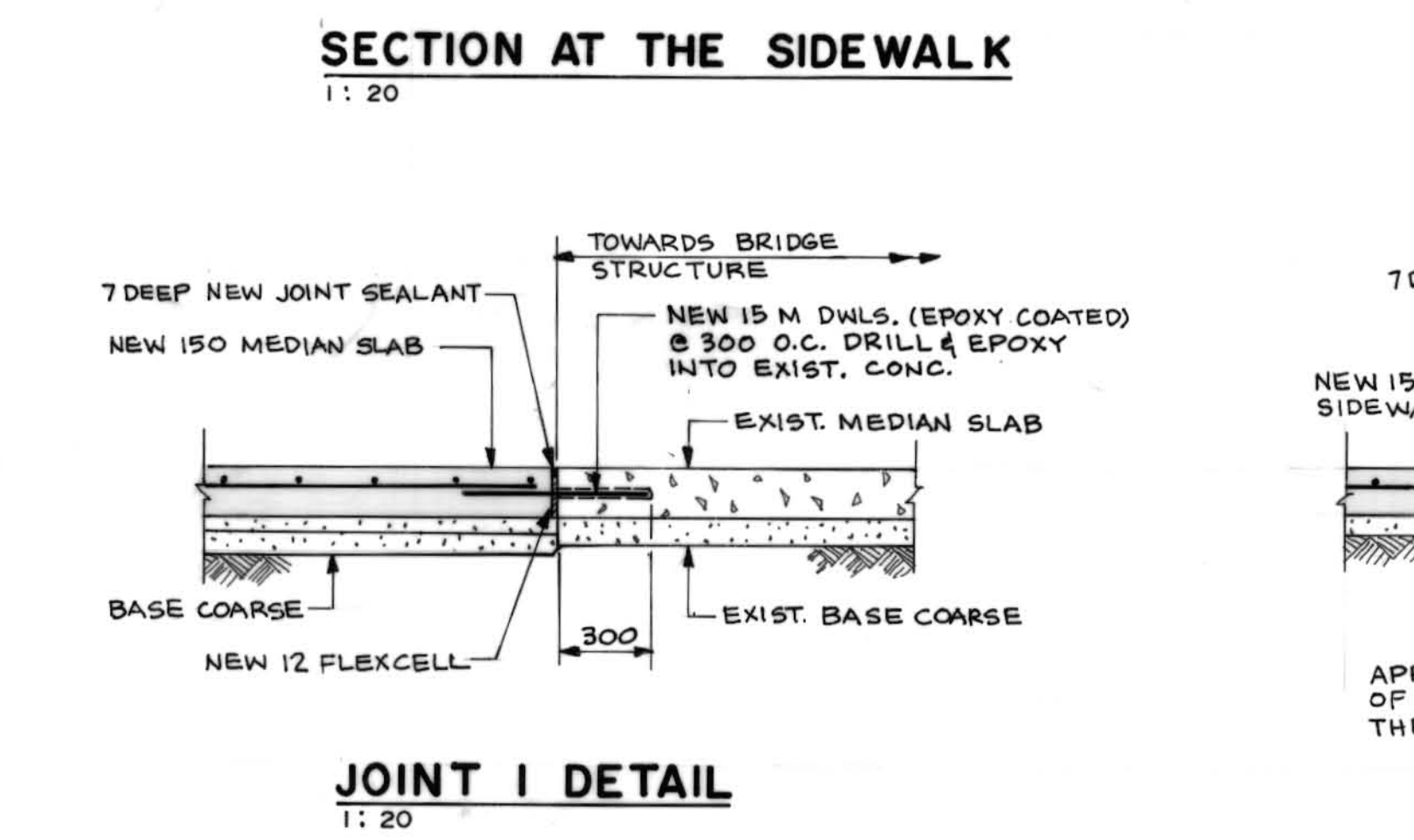
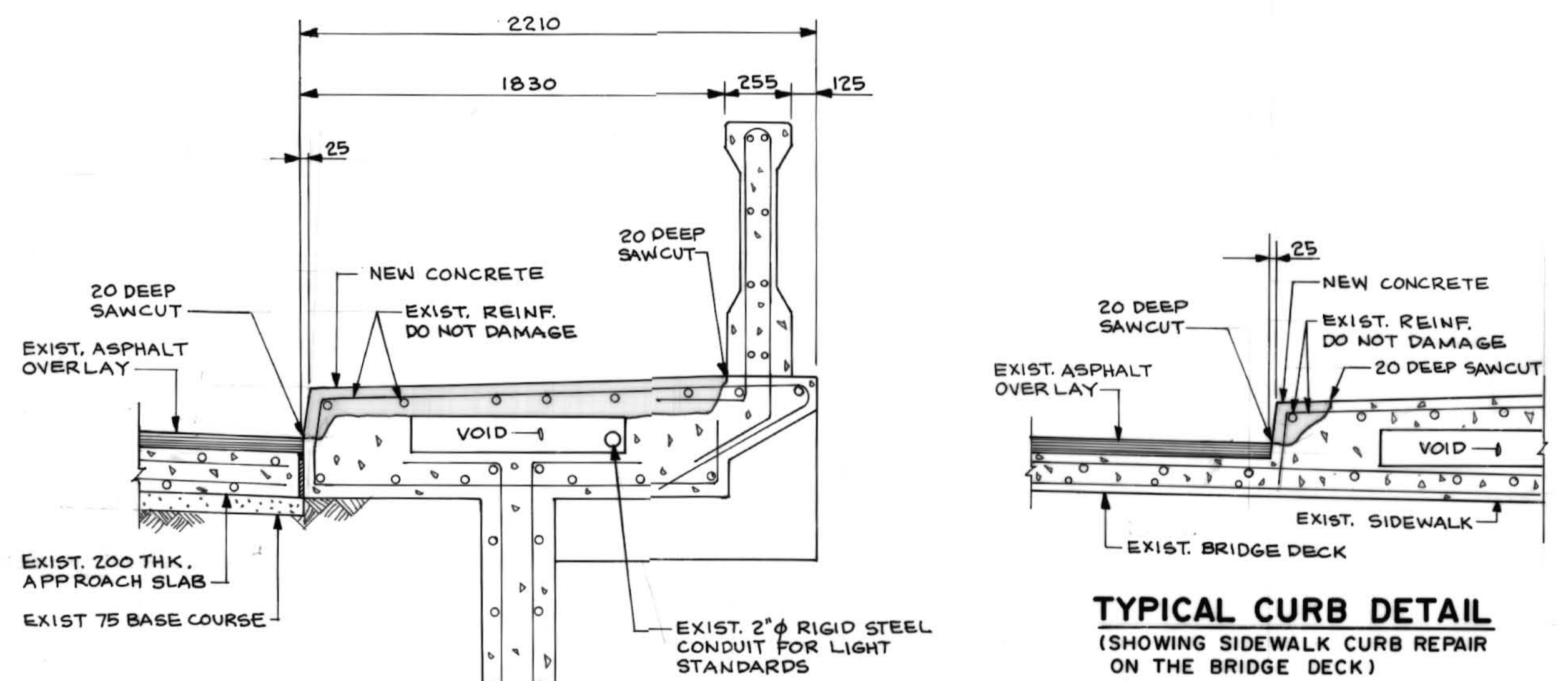
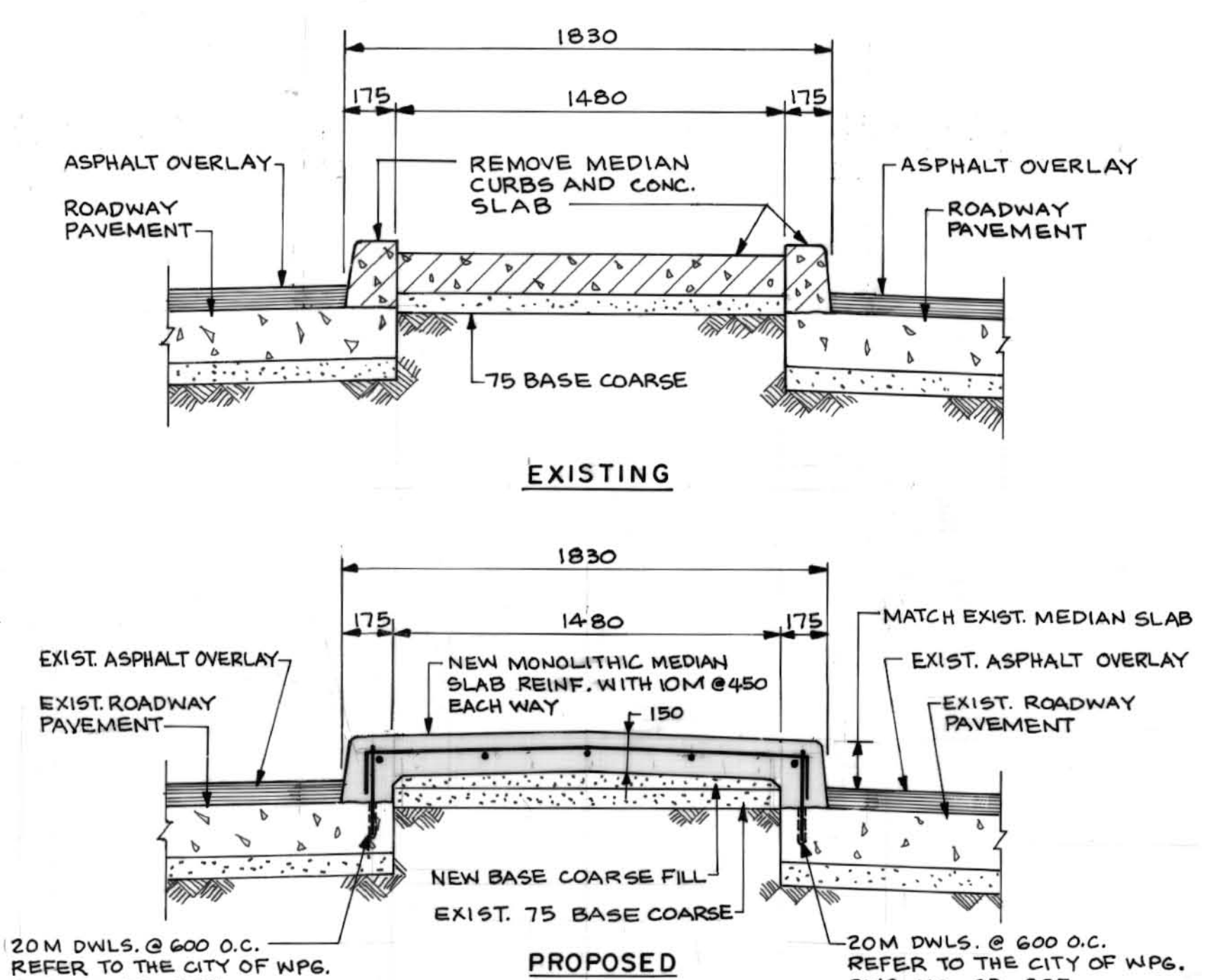
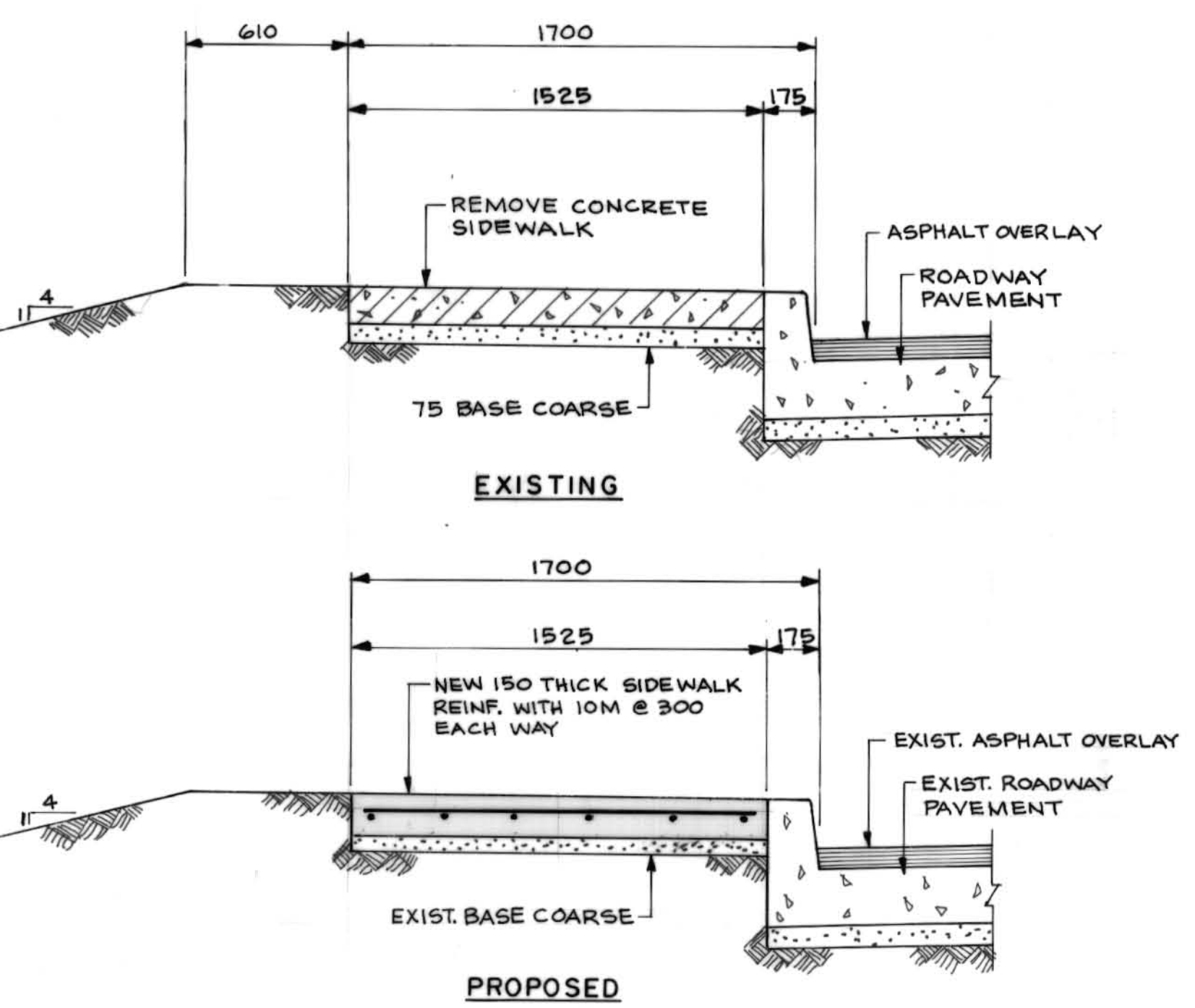
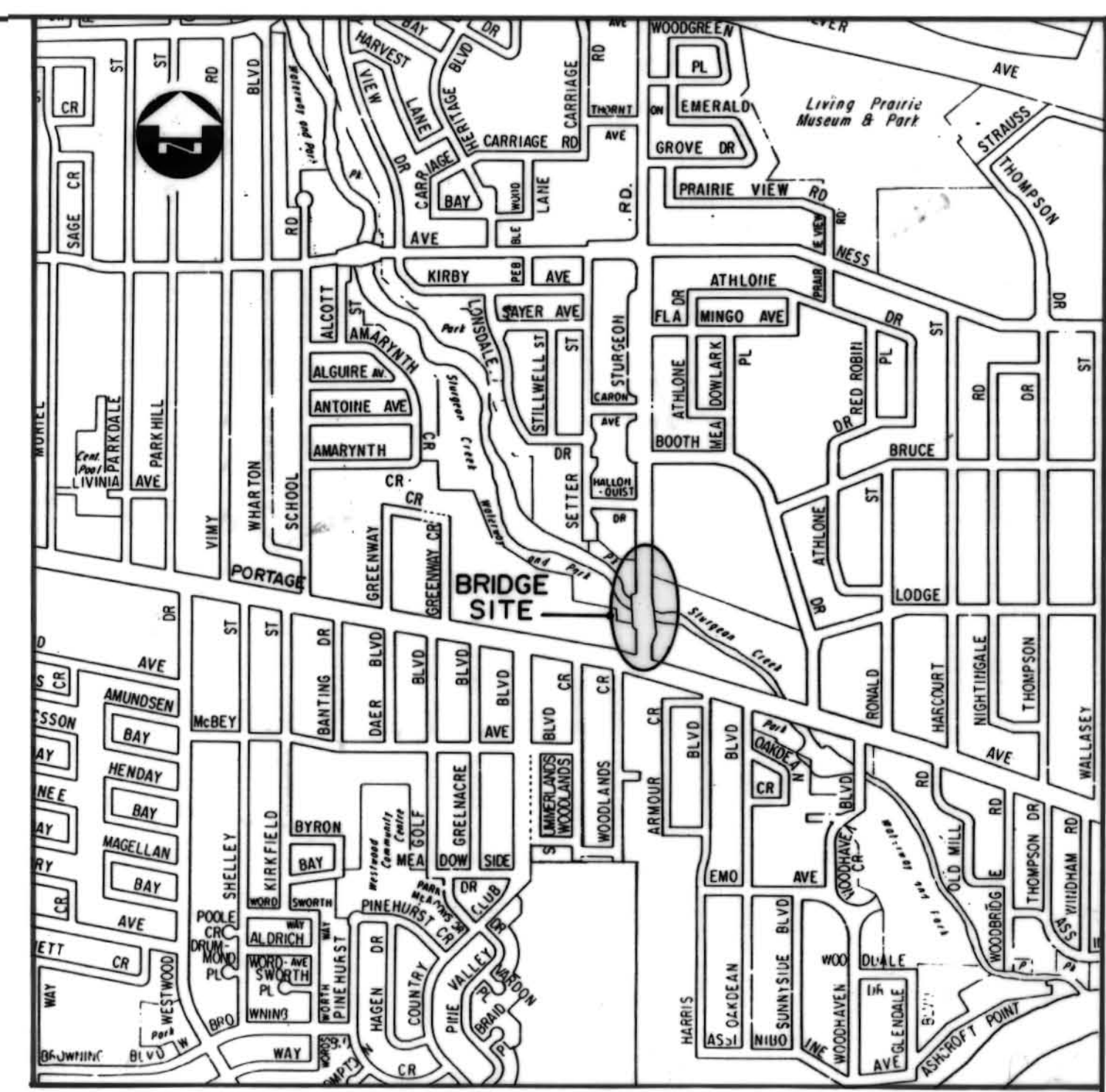
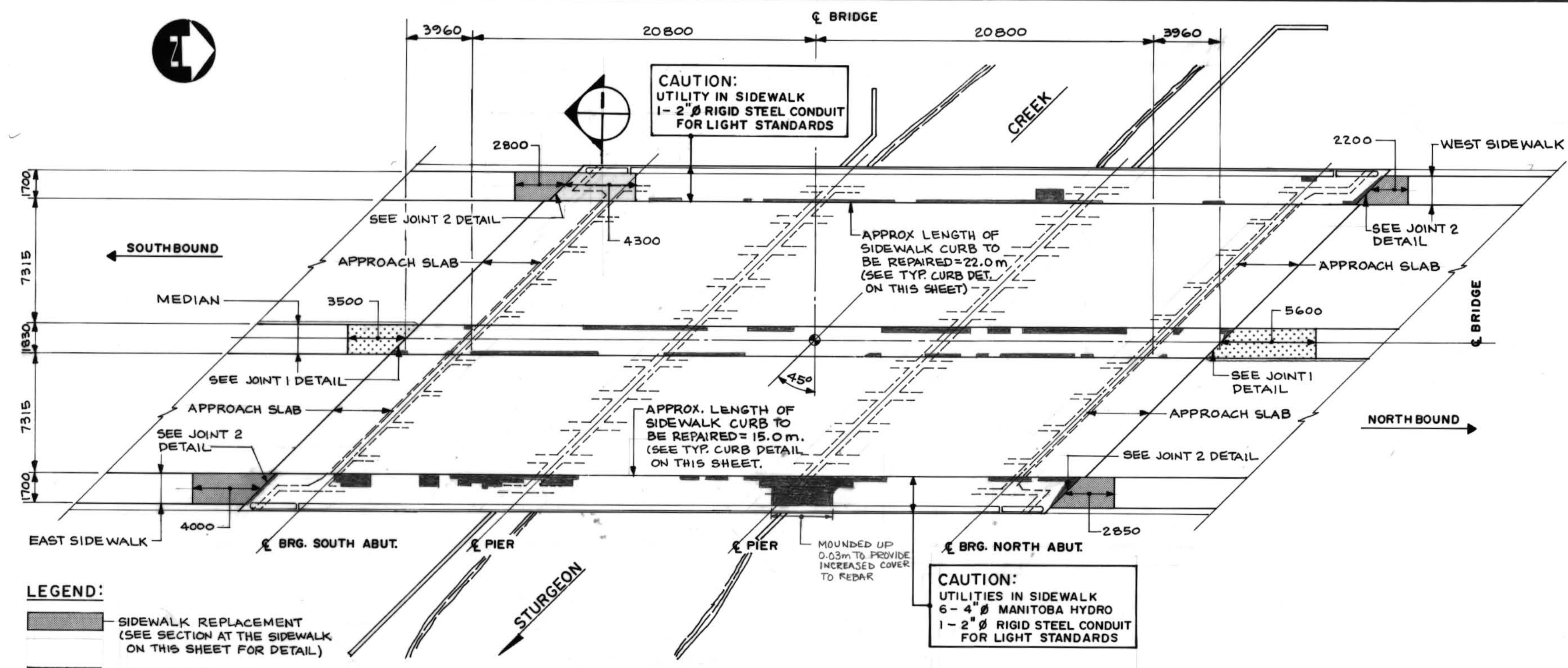
THE CITY OF WINNIPEG
WORKS AND OPERATIONS DIVISION
STREETS AND TRANSPORTATION DEPARTMENT

1992 BRIDGE MAINTENANCE
MISCELLANEOUS ASPHALT RESURFACING
AND CRACK SEALING WORKS

STURGEON ROAD BRIDGE

CITY DRAWING NUMBER: B 120-92-01
SHEET 1 OF 1

B-5916-1



RECORD DRAWING
APPROVED BY: *[Signature]* DATE: 97.12.04

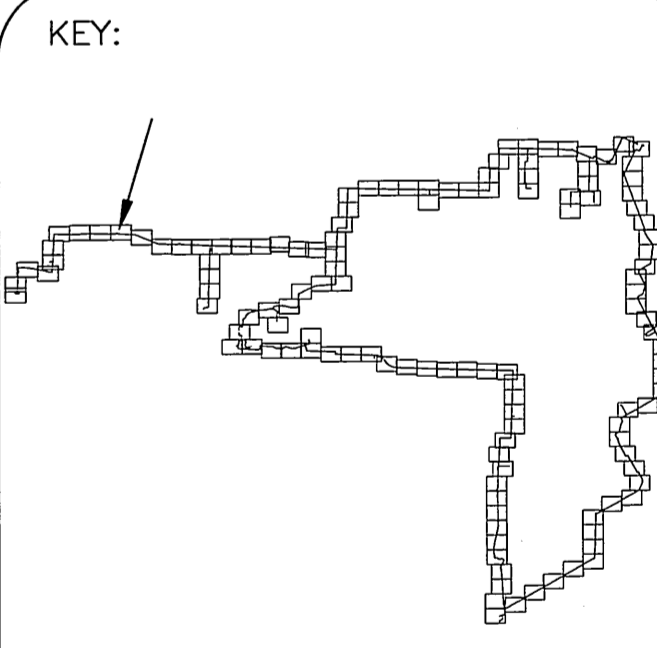
SECTION
1:20

| | | | | | | | |
|------------------------------|--|---|--|---|--|--|--|
| <p>B.M. ELEV.</p> | | <p>DILLON CONSULTING</p> | | <p>ENGINEER'S SEAL PROVINCE OF MANITOBA 96.11.19 R. A. WIEBE REGISTERED PROFESSIONAL ENGINEER</p> | | <p>THE CITY OF WINNIPEG STREETS AND TRANSPORTATION DEPARTMENT BRIDGE ENGINEERING DIVISION</p> | |
| <p>DESIGNED BY: R. A. W.</p> | | <p>CHECKED BY: R. A. W.</p> | | <p>1996 BRIDGE MAINTENANCE SIDWALK AND MEDIAN REPAIRS STURGEON ROAD BRIDGE OVER STURGEON CREEK</p> | | <p>CITY DRAWING NUMBER B120-96-02</p> | |
| <p>DRAWN BY: N. B. G.</p> | | <p>APPROVED BY: <i>[Signature]</i></p> | | <p>CONSULTANT DRAWING NO. MMD96-3701-01</p> | | <p>SHEET 1 OF 1</p> | |
| <p>HOR. SCALE: AS SHOWN</p> | | <p>AUTHORIZED BY: <i>[Signature]</i> DATE: 96.11.20</p> | | <p>PLANS, DETAILS AND SECTIONS</p> | | <p>B-5996-1</p> | |
| <p>NO. REVISIONS</p> | | <p>DATE BY</p> | | <p>DATE: NOV. 1996</p> | | <p></p> | |

| No. | Rev. | Date |
|--------|-------------------|----------|
| 00 | ISSUED FOR REVIEW | 06-03-20 |
| ISSUED | | |

LEGEND:

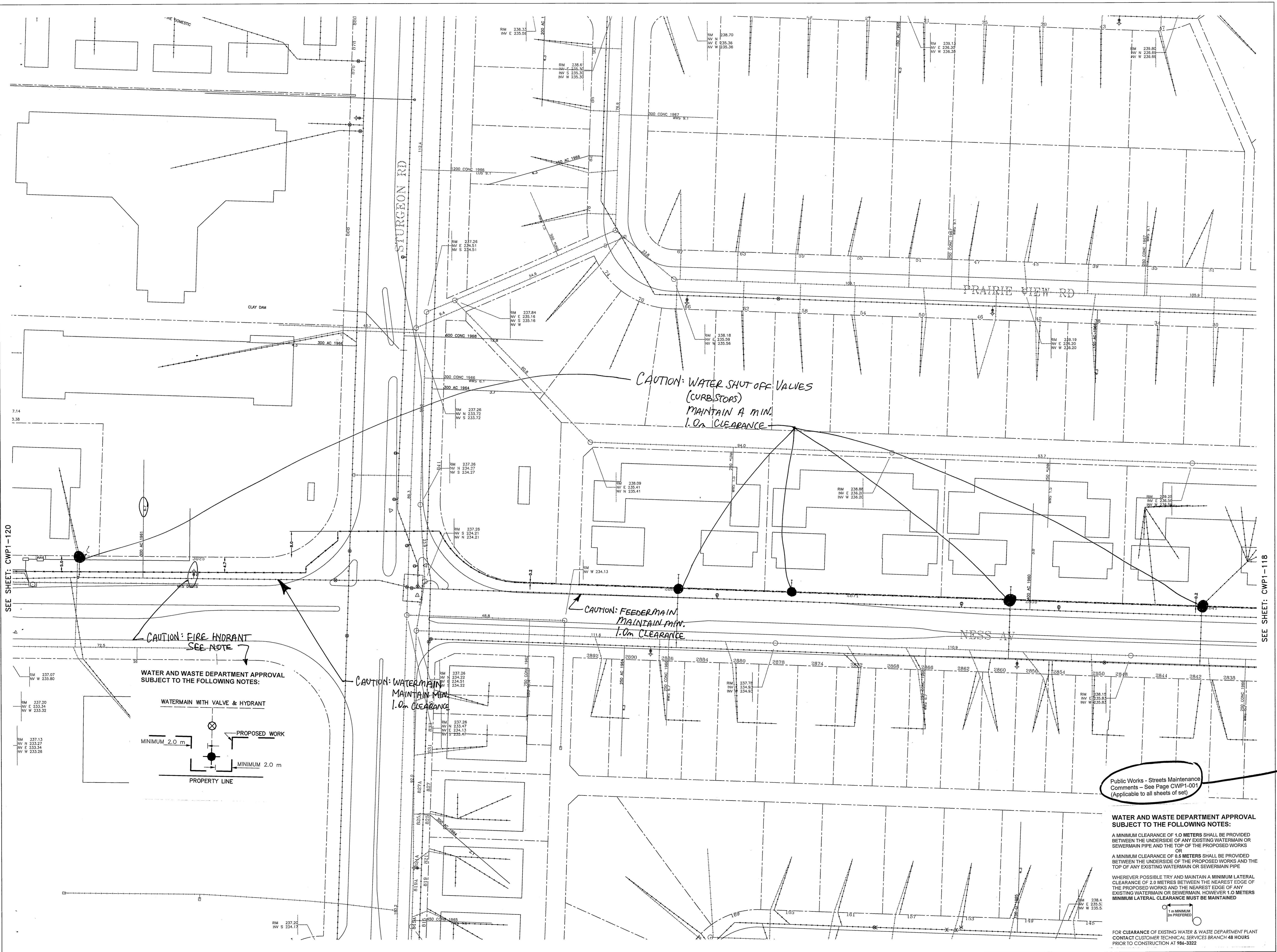
LOCATIONS OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. THE CITY DOES NOT GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE THE EXACT CONFIGURATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.



REVIEWED FOR CONSTRUCTION

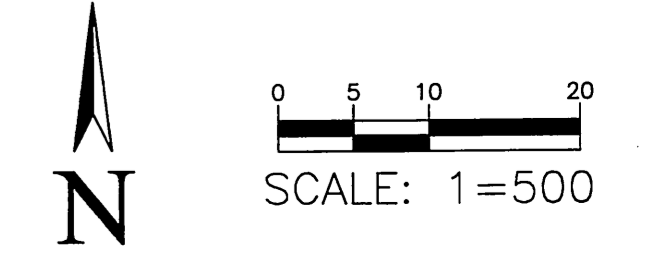
| NOTES | DATE | INTLS. |
|------------------------|-------------|--------|
| UNDERGROUND STRUCTURES | APR 3 2006 | PJB |
| STREETSUN | 10 8 2006 | dk |
| W. W. D. | MAY 11 2006 | TJS |

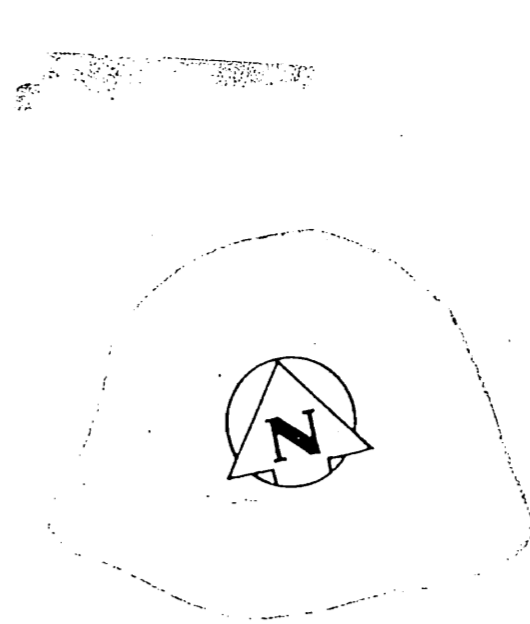
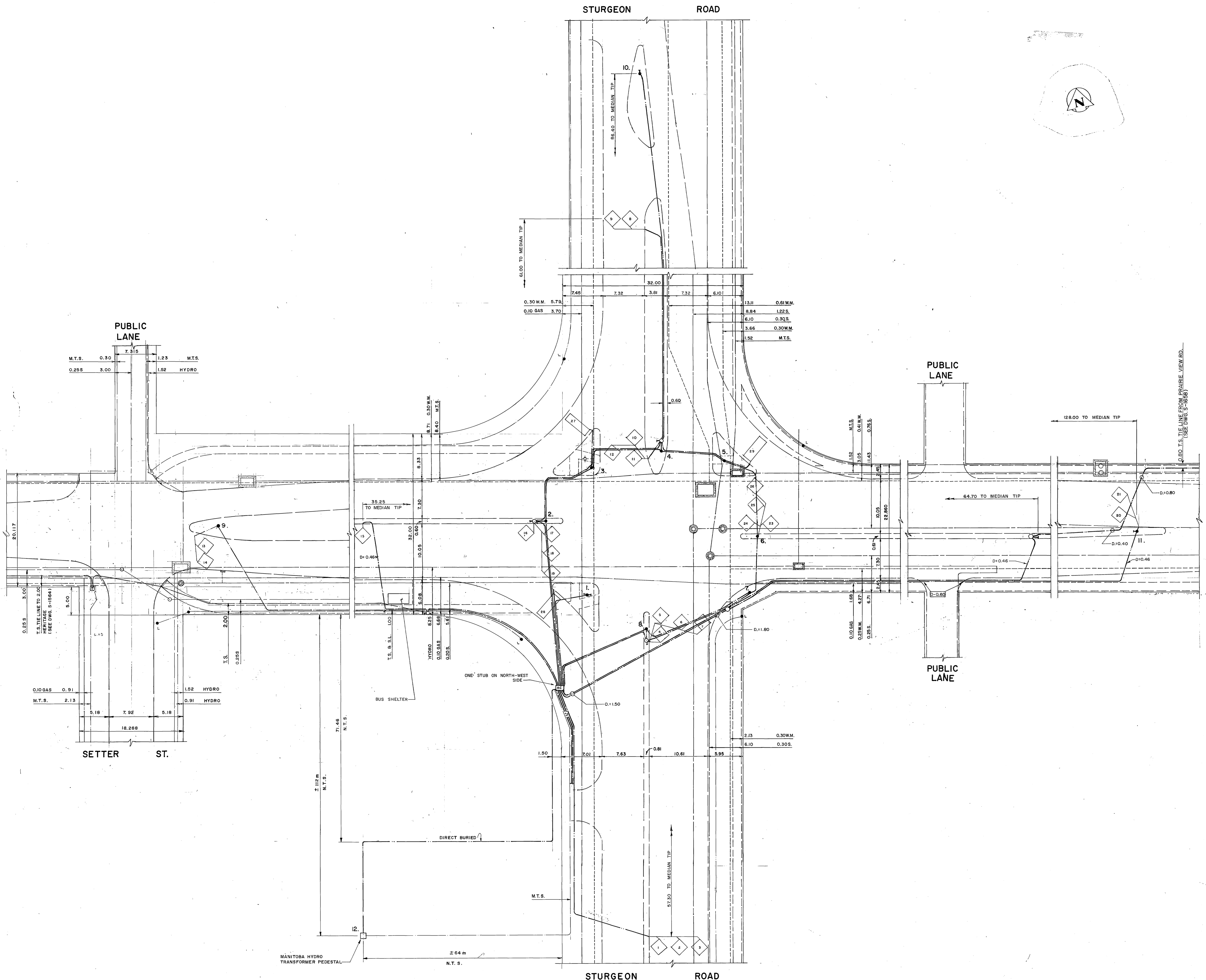
LOCATION APPROVED UNDERGROUND STRUCTURES



SEE SHEET: CWP1-120

SEE SHEET: CWP1-118





| SIGNALS EQUIPMENT INSTALLATION PLAN | | | | | | | | | | |
|-------------------------------------|----------------------|-----------|--------|--------|---------|------------------|------|--|--|--|
| NO. | POLE TYPE AND LENGTH | EXT. BASE | HEADS | ARROWS | REMARKS | | | | | |
| 1. | DAVIT | B | A S.B. | 12" RT | 12" | P.B. FOR N.E. | B.B. | | | |
| 2. | 18" SIGNAL | A | W.B. | 12" | 12" | P.B. FOR E.B. | B.B. | | | |
| 3. | DAVIT | B | A W.B. | 12" RT | 12" | P.B. FOR E.B. | B.B. | | | |
| 4. | 18" SIGNAL | A | N.B. | 12" RT | 12" | P.B. FOR S.B. | B.B. | | | |
| 5. | DAVIT | B | A N.B. | 12" RT | 12" | P.B. FOR S.B. | B.B. | | | |
| 6. | 18" SIGNAL | A | E.B. | 12" | 12" | P.B. FOR W.B. | B.B. | | | |
| 7. | DAVIT | B | A E.B. | 12" RT | 12" | P.B. FOR W.B. | B.B. | | | |
| 8. | 18" SIGNAL | A | S.B. | 12" | 12" | P.B. FOR N.B. | B.B. | | | |
| 9. | 10" SIGNAL | B | E.B. | | | K.R. SIGN | B.B. | | | |
| 10. | 10" SIGNAL | B | | | | K.R. SIGN | B.B. | | | |
| 11. | 10" SIGNAL | A | W.B. | | | K.R. SIGN | B.B. | | | |
| 12. | TRANSFORMER VAULT | | | | | 120 VOLT SERVICE | B.B. | | | |

BASES - TYPE 'A' - 8" ANCHOR BOLT SQUARE - NO REINFORCING STEEL
 TYPE 'B' - 6" ANCHOR BOLT SQUARE - NO REINFORCING STEEL
 TYPE 'C' - 10" ANCHOR BOLT SQUARE - REINFORCING STEEL

| WORKS TO BE CONSTRUCTED | | SYMBOL |
|---|--|---------|
| SIGNAL POLE BASE | | ○ |
| JOINT USE POLE BASE | | ○ |
| ACTUATED CONTROLLER BASE | | AC |
| CONTROLLER BASE | | □ |
| SINGLE CONDUIT TO BE INSTALLED (1 1/2" PLASTIC PIPE) | | |
| MULTIPLE CONDUIT BANK TO BE INSTALLED (2 OR MORE 1 1/2" PLASTIC PIPE) | | |
| STUBS TO BE INSTALLED (2" PLASTIC PIPE) | | ○-..... |
| SPLICE TO EXISTING CONDUIT | | |
| INSTALL CONDUIT INTO EXISTING BASE, POLE OR MANHOLE | | |
| REMOVALS | | ← R |
| SERVICE PIT | | ○ |
| DETECTOR LOOPS | | ◇ |

| WARNING | |
|---|---|
| IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST: | |
| 1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION. | B 91-0711 U.S. TIE LINE ADDED, MORAY TO STURGEON |
| 2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS. | 7 91-0807 LOOP No. 22 REMOVED |
| SEE PROVINCIAL REGULATIONS 210/72 FOR DETAILS | 6 86-024 INSTALLED [IT] ON S.W. CORNER OF SETTER |
| | 5 85-0830 U.S. PLANT & SIGNAL EQUIP. AS PER S.W.O. 5005 |
| | 4 82-736 T.S. TIE TO HERITAGE AS PER S.W.O. 4068 |
| | 3 81-0223 EXPT. E & W. ROUND VERT. ARROW REMOVED |
| | 2 80-917 NEW GEOMETRY, U.S. PLANT |
| | 1 79-515 U.S. PLANT & SIGNAL EQUIPMENT AS BUILT |

| METRIC | | | |
|--|------|----------------------|---------|
| ALL DIMENSIONS SHOWN ON THIS PLAN ARE IN METRES UNLESS OTHERWISE INDICATED | | | |
| NO. | DATE | DESCRIPTION | CHECKED |
| | | "AS BUILT" REVISIONS | |

LOCATION APPROVED UNDERGROUND STRUCTURES COMMITTEE

APPROVED FOR CONSTRUCTION

MANAGER OF STREETS & TRAFFIC

DATE: 10-3-93

THE CITY OF WINNIPEG

WORKS & OPERATIONS DEPARTMENT

STREETS & TRANSPORTATION DIVISION

DESIGN CHECK

DATE

TRAFFIC SIGNALS

NESS AVE & STURGEON ROAD

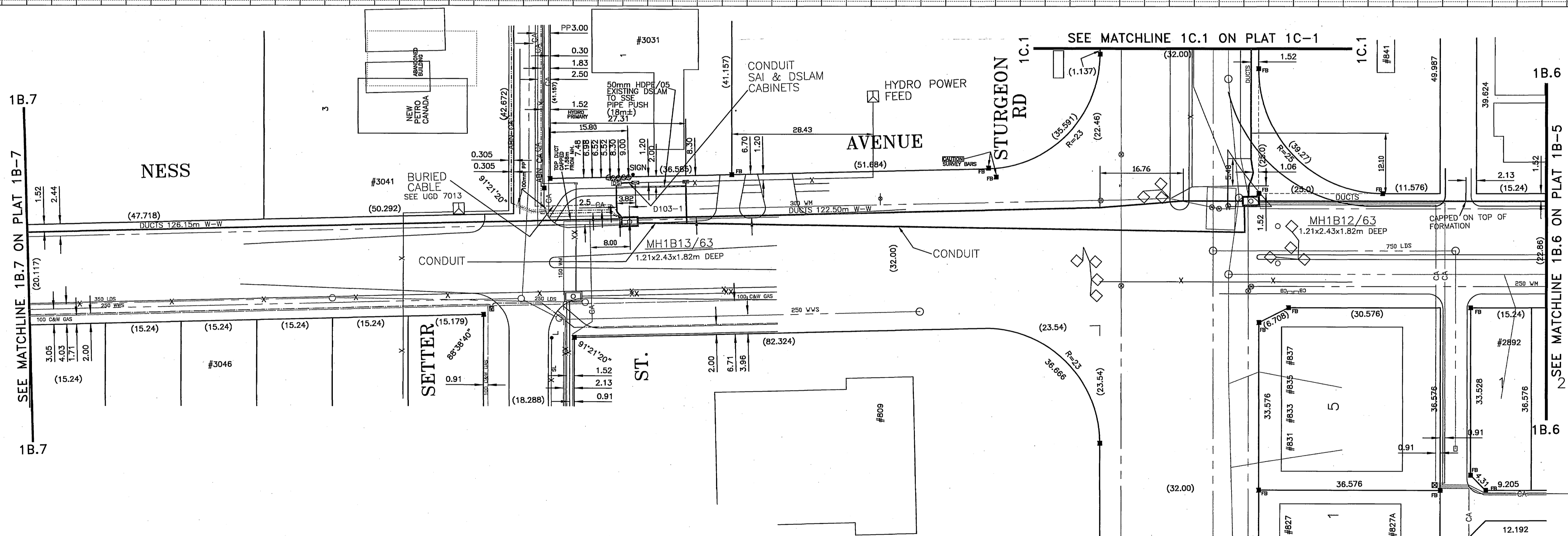
APPROVED BY: TRAFFIC SIGNALS ENGINEER

SCALE: 1:250

DRAWING NO. S-1301

LEGEND

| | | | |
|----------------------|-------------|----------------------|---------------|
| EXIST. PAVEMENT LINE | SURVEY BAR | EXISTING SIDEWALK | WOOD POLE |
| PROP. PAVEMENT LINE | CATCH BASIN | PROPOSED SIDEWALK | AERIAL WIRING |
| FUTURE PROP. LINE | CURB INLET | FENCE | TROLLEY POLE |
| EXIST. PROPERTY LINE | GAS VALVE | BUILDING | |
| PROP. PROPERTY LINE | WATER VALVE | ORNAMENTAL LIGHT STD | |
| RAILWAY TRACKS | VALVE PIT | SIGNAL CONTROLLER | |
| FIRE HYDRANT | MANHOLE | TREE | |



| | | |
|-----|-------------|-------------|
| | AB | 05-05-31 |
| PP | 9722511 | 05 - 65 |
| PP | 9710581 | UGS-01-2120 |
| B9 | REVISED | 01-04-18 |
| 65 | EST 97034 | UGS-64-580 |
| 63 | EST 97007 | UGS-63-440 |
| YR. | NETWORK NO. | APPROVAL |
| | | CORRECTED |

MTS
 GEOMATICS JOB NUMBER:

| | |
|---|--------------|
| EXCHANGE VERNON | |
| LOCATION ON NESS AVENUE STURGEON RD. TO W. OF SETTER ST. | |
| DATE: | U.G. CONDUIT |
| SCALE: VERT. _____ | PLAT NO: |
| HORIZ. 1:500 | 1B-6 |
| SHEET 1 OF 1 SHEETS | |

LEGEND

| | | | | | |
|--|---------------------------|--|--------------------|--|--------------------------|
| | PROPOSED M.T.S. M'HOLE | | 5-100mm DUCTS | | PAVEMENT/SIDEWALK |
| | EXISTING M.T.S. M'HOLE | | 3-40mm DUCTS | | WATER HYDRANT |
| | PROPOSED M.T.S. DUCTS | | EASEMENT BOUNDARY | | VALVE |
| | EXISTING M.T.S. DUCTS | | GAS | | SEWER M'HOLE/CATCH BASIN |
| | EXISTING M.T.S. BURIED CA | | WATER | | SURVEY MONUMENT |
| | EXISTING M.T.S. BURIED CA | | SEWER | | UNITE L |
| | M.T.S. PEDESTAL | | HYDRO DUCTS | | PROPERTY LINE |
| | PROPOSED M.T.S. PEDESTAL | | HYDRO BURIED CABLE | | |
| | HYDRO TRANSFORMER | | | | |
| | S.A.I. CABINET | | | | |
| | DSLAM CABINET | | | | |

METRIC
 WHOLE NUMBERS INDICATE MILLIMETERS
 DECIMALIZED NUMBERS INDICATE METERS

LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN, AND EXACT LOCATIONS OF ALL UNDERGROUND INCLUDING SERVICE CONNECTIONS, MUST BE CHECKED WITH THE UTILITY CONCERNED BEFORE PROCEEDING WITH CONSTRUCTION.

BENCH MARK

LTO PLANS:

UNDERGROUND STRUCTURES

ORIGINATOR: GREG SIM
 DRAWN BY: P.FLEURY
 CHECKED:
 APPROVAL NUMBER: 05-
 MANAGER - UGS/O.P.E.
 BRIAN ULASY

CALL BEFORE YOU DIG - CHECK FOR

- PIPELINES CARRYING OIL, GASOLINE, NATURAL GAS, LIQUID PROPANE, STEAM, DRINKING/IRRIGATION WATER, SEWAGE, SEPTIC FIELDS/TANKS;
- BURIED ELECTRICAL, RAILWAY/TRAFFIC SIGNAL, TELEGRAPH LINES; DUCT FORMATIONS; MTS FOTS, TV, VF CABLES ETC.

UNDERGROUND STRUCTURES

ORIGINATOR: GREG SIM
 DRAWN BY: P.FLEURY
 CHECKED:
 APPROVAL NUMBER: 05-
 MANAGER - UGS/O.P.E.
 BRIAN ULASY

SCALE: VERT. _____
 HORIZ. 1:500

SHEET 1 OF 1 SHEETS

U.G. CONDUIT
 PLAT NO: 1B-6

MTS U.G. STRUCTURES PROFILE MASTER UGSP

NOTES

HEATHER KENDRICK
 3 MAR-06 A9-38

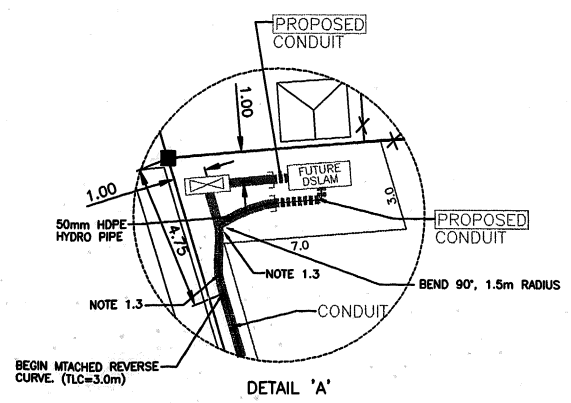
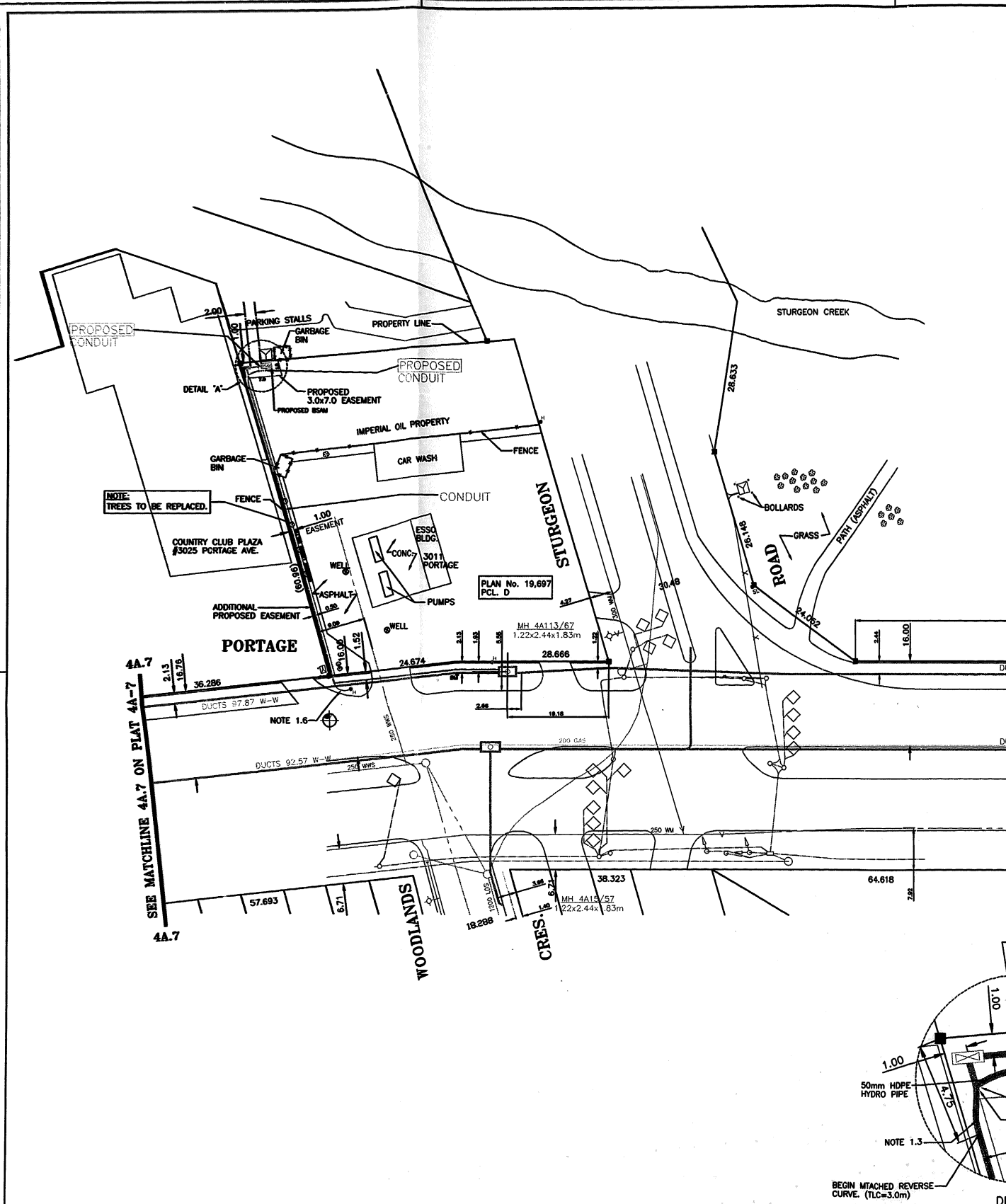
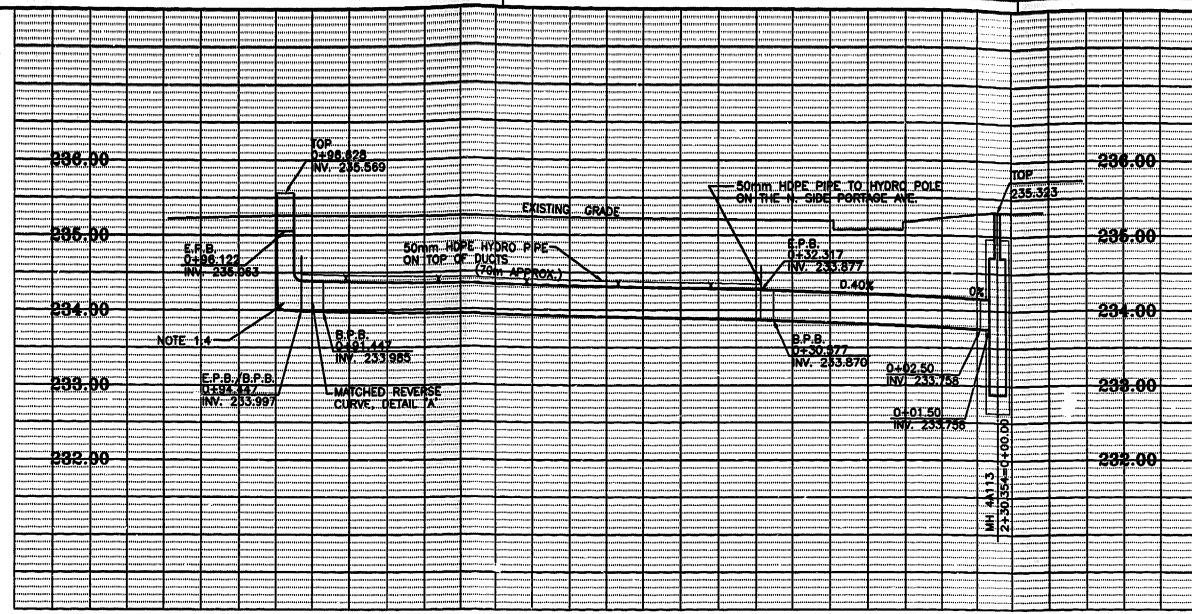
LOCATIONS OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATION, DEPTH OR INFORMATION OF EXISTENCE AND EXACT LOCATION OF ALL UTILITIES MUST BE OBTAINED FROM THE UTILITY CONCERNED BEFORE PROCEEDING WITH CONSTRUCTION.

| REVIEWED FOR CONSTRUCTION | | |
|--|-------------------------------|-------------|
| DEPARTMENT | DATE | INITIALS |
| UNDERGROUND STRUCTURES | March 03 | [Signature] |
| STREETS | W.W.D. March 7/03 [Signature] | |
| APPROVAL VALID FOR ONE YEAR FROM THE DATE SHOWN ABOVE. UNDERGROUND STRUCTURES SHOULD BE NOTIFIED AS TO ANY POSSIBLE OF CANCELLATION TO THE PROJECT OR ANY FUTURE WORK. | | |
| LOCATION APPROVED UNDERGROUND STRUCTURES | | |
| SUPERVISOR | DATE | |
| [Signature] | 03-07-03 | |

| CITY BASE | PP | UGS-03-2360 | 03-02-20 |
|-----------|-------------|-------------|-----------|
| 02 | 9710582 | 01-172 | 01-08-09 |
| 72 | RO 21756 | | |
| 67 | EST 92502 | 67-107 | |
| 65 | RO 22183 | 65-156 | |
| 57 | EST 93023 | | 18-08-83 |
| YR. | NETWORK NO. | APPROVAL | CORRECTED |

MTS
 EXCHANGE VERNON
 LOCATION ON PORTAGE AVE. EAST OF HARRIS BLVD. TO WEST OF WOODLANDS CRES. EAST

| | |
|---------------------------------|------------------------|
| DATE: 01-08-09 | U.G. CONDUIT |
| SCALE VERT. 1:50 HORZ. 1:500 | PROPOSED PLAT NO. 4A-6 |
| SHEET OF SHEETS | 4A-6 |
| UGS-03-2360 | |



LEGEND

| | | |
|---|---|--|
| <ul style="list-style-type: none"> □ PROPOSED M.T.S. M' HOLE ○ EXISTING M.T.S. M' HOLE — PROPOSED M.T.S. DUCTS - - - EXISTING M.T.S. DUCTS - - - EXISTING M.T.S. BURIED CA. ○ P.O.L.E. (M.T.S. HYDRO, LIGHT) ○ M.T.S. PEDESTAL ○ M.T.S. TRANSFORMER ○ SA1 CABINET ○ DSLAM CABINET | <ul style="list-style-type: none"> — 5-100mm DUCTS — 3-40mm DUCTS - - - EASEMENT BOUNDARY - - - GAS - - - WATER - - - SEWER - - - HYDRO DUCTS - - - HYDRO BURIED CABLE - - - SIGNALS | <ul style="list-style-type: none"> — PAVEMENT/SIDEWALK ○ WATER HYDRANT ○ VALVE ○ SEWER M' HOLE/CATCH BASIN ○ SURVEY MONUMENT ○ UNTEL |
|---|---|--|

METRIC
 WHOLE NUMBERS INDICATE MILLIMETERS
 DECIMALIZED NUMBERS INDICATE METERS

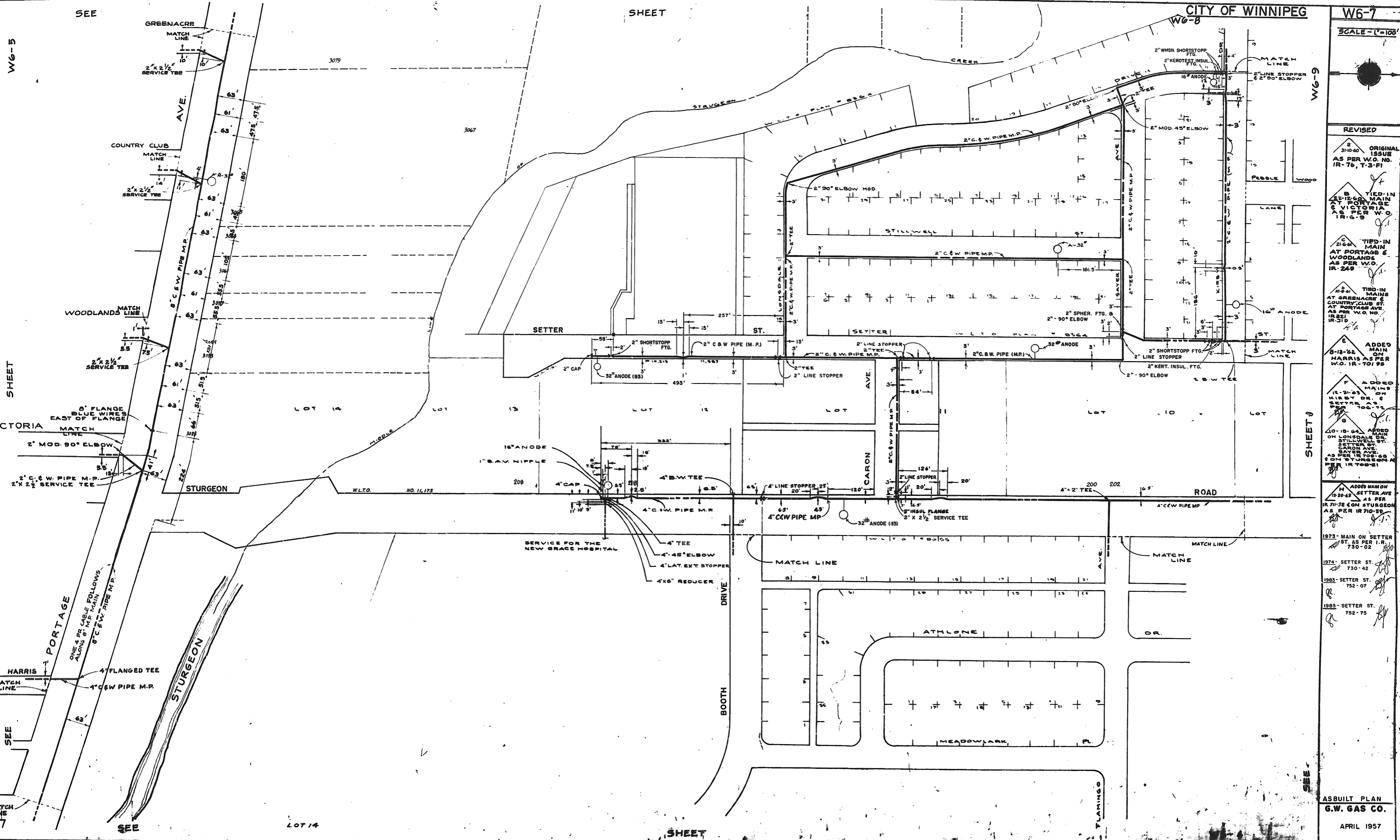
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CALL BEFORE YOU DIG - CHECK FOR
 PIPELINES CARRYING OIL, GASOLINE, NATURAL GAS, LIQUID PROPANE, STEAM, DRINKING/IRRIGATION WATER, SEWAGE, SEPTIC FIELDS/TANKS;
 BURIED ELECTRICAL, RAILWAY/TRAFFIC SIGNAL, TELEGRAPH LINES; DUCT FORMATIONS; MTS FOTS, TV, VV CABLES ETC.

UNDERGROUND STRUCTURES

ORIGINATOR: HEATHER KENDRICK
 DRAWN BY: G.S.
 CHECKED:
 APPROVAL NUMBER: 03-
 MANAGER - UGS/O.P.E. DATE
 LUC ALLARD

CITY BASE
 PP 9715291 UGS-03-2360 03-02-20
 02 9710582 01-172 01-08-09
 72 RO 21756
 67 EST 92502 67-107
 65 RO 22183 65-156
 57 EST 93023 18-08-83
 YR. NETWORK NO. APPROVAL CORRECTED



CITY OF WINNIPEG

W6-7
SCALE - 1"=100'

REVISED

ORIGINAL ISSUE AS PER W.O. NO. IR-76, T-3-F1

TIED-IN MAIN AT PORTAGE & VICTORIA AS PER W.O. IR-6-9

TIED-IN MAIN AT PORTAGE & WOODLANDS AS PER W.O. IR-248

TIED-IN MAINS AT GREENACRE & COUNTRY CLUB ST. AT PORTAGE AVE AS PER W.O. NO. IR-310

ADDED MAIN ON HARRIS AS PER W.O. IR-701-95

ADDED MAINS ON LONSDALE DR. & KIRBY DR. & SETTER ST. AS PER W.O. NO. IR-706-75

ADDED MAIN ON LONSDALE DR. & SETTER ST. AS PER W.O. NO. IR-706-75

ADDED MAIN ON STURGEON AVE AS PER IR-708-51

1973 - MAIN ON SETTER ST. AS PER I.R. 730-02

1974 - SETTER ST. 730-42

1983 - SETTER ST. 752-07

1985 - SETTER ST. 752-75

AS BUILT PLAN
G.W. GAS CO.
APRIL 1957

W6-7

W7-9

ROAD

SHEET

VIMY

SEE

SEE

SHEET

FIELDSTONE

W6-10

W5-5



REVISED

ORIGINAL ISSUE
5-31-63 AS PER
12-7037-70

ADDED MAIN
7-9-69 ON
SCHOOL RD
AS PER
703-89

ADDED
01-11-69 MAIN
ON 11th ST
AS PER
12-7037-70

ADDED
12-13-69 TIE-IN
MAIN AT
VALLEY VIEW
AS PER
703-89

ADDED
12-13-69 TIE-IN
MAIN AT
VALLEY VIEW
AS PER
703-89

ADDED
12-13-69 TIE-IN
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