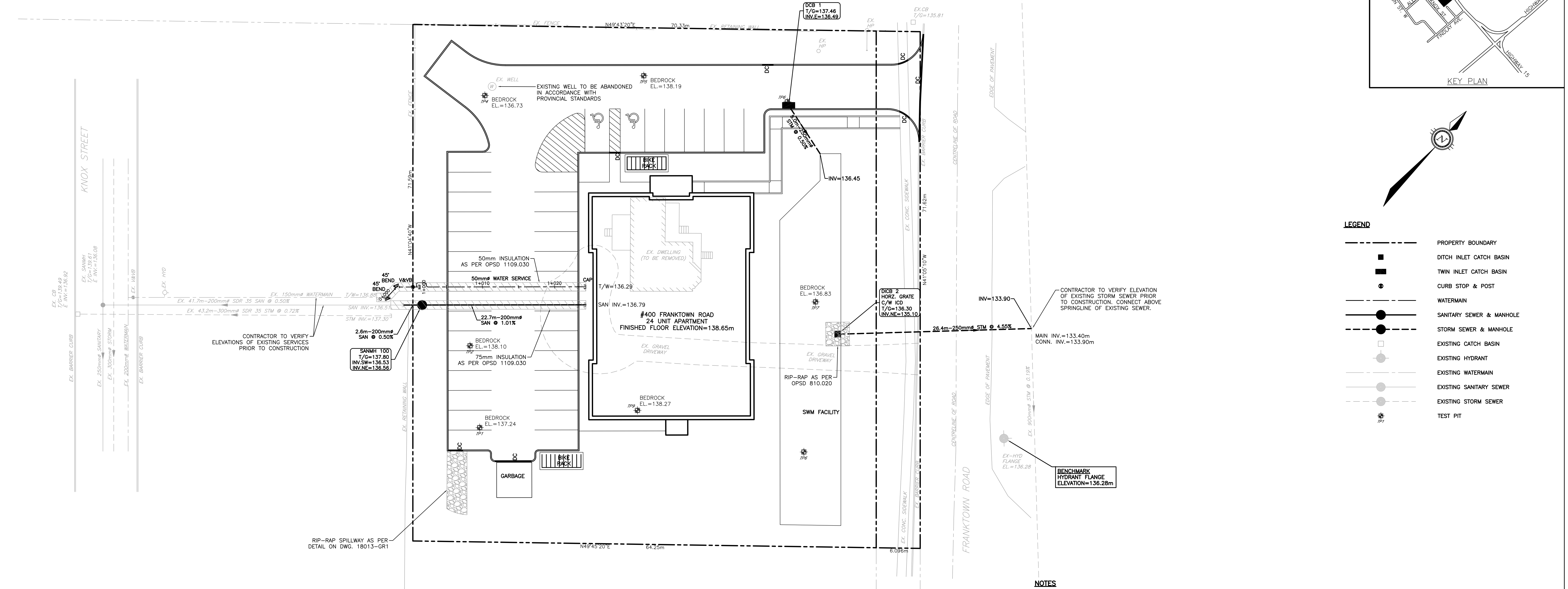
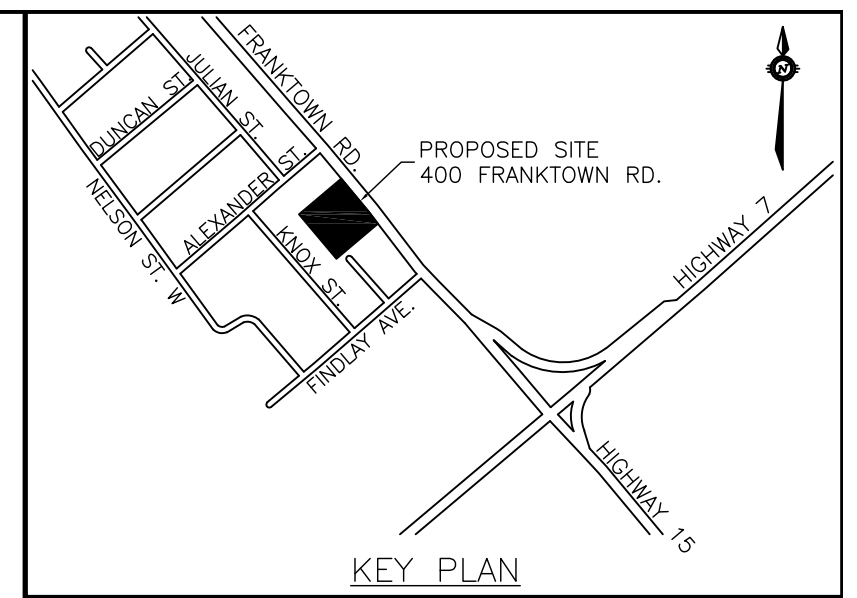


NOT FOR CONSTRUCTION



LEGEND

| | |
|-----|--------------------------|
| --- | PROPERTY BOUNDARY |
| ■ | DITCH INLET CATCH BASIN |
| ■ | TWIN INLET CATCH BASIN |
| ● | CURB STOP & POST |
| —●— | WATERMAIN |
| —●— | SANITARY SEWER & MANHOLE |
| —●— | STORM SEWER & MANHOLE |
| □ | EXISTING CATCH BASIN |
| ○ | EXISTING HYDRANT |
| —○— | EXISTING WATERMAIN |
| —○— | EXISTING SANITARY SEWER |
| —○— | EXISTING STORM SEWER |
| ⊕ | TEST PIT |

- NOTES**
- CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES.
 - ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS.
 - STRIP AND REMOVE ALL TOPSOIL FROM IMPROVED AREAS.
 - ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW-CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT.
 - CONTRACTOR IS TO COMPLY WITH TOWN OF CARLETON PLACE REQUIREMENTS FOR TRAFFIC CONTROL WHEN WORKING ON MUNICIPAL ROADS.
 - RESTORE PAVEMENT STRUCTURE AND SURFACES ON EXISTING ROADS TO A CONDITION AT LEAST EQUAL TO ORIGINAL AND TO THE SATISFACTION OF THE MUNICIPAL AUTHORITIES.
 - ALL MATERIAL SUPPLIED AND PLACED FOR PARKING LOT AND ACCESS ROAD CONSTRUCTION SHALL BE TO OPSS STANDARDS UNLESS OTHERWISE NOTED. (CONSTRUCTION OPSS 206, 310 & 314 MATERIALS OPSS 1001, 1003 & 1010).
 - REFER TO ARCHITECT'S SITE PLAN FOR BUILDING DIMENSIONS AND SITE LAYOUT. DIMENSIONS AND LAYOUT INFORMATION SHALL BE CONFIRMED PRIOR TO COMMENCEMENT OF CONSTRUCTION. LAYOUT TO BE CHECKED BY THE OWNERS CONSULTANT(S) PRIOR TO CONSTRUCTION.
 - SUPPLY AND INSTALL ALL PIPING AND APPURTENANCES AS SHOWN TO WITHIN 1.0m OF BUILDING WALLS. PROVIDE TEMPORARY CAPS.
 - THE CONTRACTOR SHALL COORDINATE AND PAY FOR ALL CONSTRUCTION RELATED PERMITS, FEES, INSPECTIONS AND APPROVALS REQUIRED BY THE TOWN.
 - THE CONTRACTOR SHALL CONFIRM LOCATIONS AND ELEVATIONS OF EXISTING SERVICES AND STRUCTURES TO BE CONNECTED TO AND EXISTING SERVICES THAT MAY BE DAMAGED OR CAUSE CONFLICTS PRIOR TO CONSTRUCTION OF ANY NEW SEWER, WATER AND/OR STORM WATER WORKS. THE ENGINEER SHALL BE INFORMED IMMEDIATELY OF ANY ERRORS, DISCREPANCIES, CONFLICTS, OMISSIONS etc. THAT ARE FOUND. DO NOT CONTINUE CONSTRUCTION IN AREAS WHERE DISCREPANCIES APPEAR UNTIL SUCH DISCREPANCIES HAVE BEEN RESOLVED. THE CONTRACTOR SHALL PROTECT ANY SUCH EXISTING SERVICES & FACILITIES. SUCH REQUIRED MEASURES INCLUDE, BUT ARE NOT LIMITED TO: ENSURE ALL CONCERNED UTILITIES HAVE LOCATED THEIR PLANT PRIOR TO ANY EXCAVATING, LOCATE AND FLAG/PAIN THE LOCATIONS OF OTHER U/G PLANT WHICH MIGHT BE DAMAGED BY EXCAVATION AND CONSTRUCTION TRAFFIC, HAND DIG IN PROXIMITY TO EXISTING BURIED SERVICES TO LOCATE THEM WITHOUT ANY RESULTING DAMAGE, BRACE AND SUPPORT WHERE REQUIRED.
 - THE CONTRACTOR SHALL APPRAISE HIS/HER SELF OF ALL SURFACE AND SUBSURFACE CONDITIONS TO BE ENCOUNTERED AND SHALL CARRY OUT THEIR OWN TEST PITS AS REQUIRED TO MAKE THEIR OWN INDEPENDENT ASSESSMENT OF GROUND CONDITIONS. THE CONTRACTOR SHALL NOT MAKE ANY CLAIM FOR ANY EXTRA COST DUE TO ANY SURFACE OR SUBSURFACE CONDITIONS VARYING FROM THOSE ANTICIPATED BY THE CONTRACTOR.
 - DESIGN ELEVATIONS GIVEN ON THIS PLAN ARE TO BE ADHERED TO WITH NO CHANGES WITHOUT PRIOR WRITTEN APPROVAL BY ROBINSON LAND DEVELOPMENT.
 - THE CONTRACTOR SHALL COMPLY WITH THE GEOTECHNICAL REPORT FOR PAVEMENT STRUCTURE. REMOVE ALL SURFICIAL VEGETATION, EXISTING ASPHALT, CURB (ETC.) LOCATED WITHIN DESIGNATED AREAS OF PROPOSED CONSTRUCTION. REMOVE AND/OR RELOCATE PIPES, APPURTENANCES, STRUCTURES, ETC. THAT ARE DESIGNATED FOR REMOVAL AND/OR RELOCATION. REGRADE EXISTING GRANULARS TO PROPOSED GRADES. SUPPLY AND INSTALL GRANULARS AS REQUIRED TO ACHIEVE PROPOSED GRADES. ALL MATERIAL DESIGNATED BY THE ENGINEER AS EXCESS TO THE REQUIREMENTS OF THIS WORK SHALL BE LOADED, HAULED AND DISPOSED OF OFF SITE BY THE CONTRACTOR. LOOSE SUBGRADE TO BE RECOMPACTED. SOFT AREAS SHALL BE SUBEXCAVATED, WITH A 5:1 TAPER TO BE RECOMPACTED, AND BACKFILLED WITH SELECT SUBGRADE MATERIAL.
 - REFER TO GEOTECHNICAL INVESTIGATION PREPARED BY KOLLAARD ASSOCIATES, DATED OCTOBER 2017.
 - ALL PIPE INSTALLATION INCLUDES THE REMOVAL OF ALL ORGANICS AND UNCONSOLIDATED FILL MATERIALS TO FIRM BEARING SUBGRADE. BACKFILL WITH GRANULAR "B" TYPE II, COMPACTED TO 95% SPMD, TO U/S OF PIPE BEDDING WHERE FILLING IS REQUIRED.
 - THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL PROVIDE FOR DEWATERING, SUPPORT AND PROTECTION OF EXCAVATIONS AND TRENCHING AS WELL AS RELEASE OF ANY PUMPED GROUND WATER IN A CONTROLLED AND APPROVED MANNER.
 - ALL WATERMAIN WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH CURRENT TOWN AND PROVINCIAL STANDARDS, SPECIFICATIONS AND DRAWINGS. NO WORK SHALL COMMENCE UNLESS A TOWN WATERWORKS INSPECTOR IS ON SITE. CONTRACTOR TO COORDINATE FOR INSPECTION.
 - INSTALLATION OF WATER METER AND REMOTE RECEPTACLE SHALL BE IN ACCORDANCE WITH TOWN STANDARDS.
 - VALVE AND VALVE BOX SHALL BE INSTALLED IN ACCORDANCE WITH TOWN STANDARDS AND AS PER CITY OF OTTAWA STANDARD W24.
 - WATERMAIN TO BE 152mm PVC CLASS 150 DR18 UNLESS OTHERWISE NOTED.
 - ALL WATERMAIN TO BE INSTALLED WITH A MINIMUM COVER DEPTH OF 2.4m, WHERE COVER DEPTH CAN NOT BE ACHIEVED PROVIDE THERMAL INSULATION AS PER OPSS 1109.030.
 - PROVIDE THERMAL INSULATION BETWEEN WATER SERVICE AND OPEN STRUCTURES AS PER CITY OF OTTAWA DETAIL W23.
 - WATERMAIN BEDDING IS TO BE AS PER OPSS 1102.02.
 - CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS AS PER OPSS 1109.011.
 - WATERMAIN TO BE HYDROSTATICALLY TESTED TO 20PSI FOR 2 HOURS.
 - DISINFECTION AND TESTING OF WATERMAIN SHALL BE COMPLETED IN ACCORDANCE WITH TOWN STANDARDS.
 - CONTRACTOR TO FOLLOW TOWN'S WATERMAIN COMMISSIONING PROTOCOL FOR NEW PROPOSED WATERMANS.
 - CONCRETE THURST BLOCKS AS PER OPSS 1103.010 AND OPSS 1103.020.
 - IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM THE WATERMAIN CONNECTION TO THE EXISTING MAIN. THIS SHALL BE COMPLETED IN THE PRESENCE OF A DESIGNATED MUNICIPAL WATER OPERATOR AND THE SELECTED CONTRACTOR SHALL PROMOTE TO THE SATISFACTION OF THE TOWN THAT THEY ARE COMPETENT TO PERFORM THE WORKS PRIOR TO INITIATING CONSTRUCTION.
 - ALL SANITARY SEWERS SHALL BE PVC SDR 35.
 - THE CONTRACTOR SHALL CONSTRUCT FLEXIBLE STORM AND SANITARY SEWERS IN ACCORDANCE WITH OPSS 802.010, 802.013 AND 802.014. BEDDING AND BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 100% SPMD.
 - THE UNDERGROUND SERVICING CONTRACTOR IS REQUIRED TO PERFORM ALL FIELD TESTS REQUIRED BY THE TOWN FOR QUALITY CONTROL ON ALL INSTALLED WATER, SEWER AND MANHOLES IN ACCORDANCE WITH TOWN AND OPSS SPECIFICATIONS & STANDARDS. ALL SANITARY SEWER AND MANHOLES SHALL PASS AN EXFILTRATION TEST COMPLETED AS PER OPSS SPECIFICATIONS. ALL TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER. SEWERS ARE NOT TO BE PUT INTO USE UNTIL ALL TESTING IS SUCCESSFULLY COMPLETE.
 - WHERE CONNECTIONS OR BREAK-INS TO EXISTING STRUCTURES OR PIPES ARE REQUIRED THEN THIS WORK INCLUDES ALL: EXCAVATION, PROTECTION & SUPPORT, CORING, CUTTING IN, BREAKING-IN, CONNECTIONS, RE-CONNECTIONS OF EXISTING, REPAIRS AND SEALING OF OPENINGS, RE-BENCHING, TESTING AND REINSTATEMENT.
 - DO NOT CONSTRUCT USING DRAWINGS THAT ARE NOT MARKED "ISSUED FOR CONSTRUCTION".

150mm# WATERMAIN GRADE TABLE

| STATION | FINISHED GRADE (m) | TOP OF WATER (m) | COMMENTS |
|---------|--------------------|------------------|-------------------------------|
| 0+000 | 138.65 | 136.88 | CONNECT TO EXISTING/ 45° BEND |
| 0+002 | 138.32 | 136.52 | 45° HORIZONTAL BEND |
| 0+004.2 | 137.86 | 136.06 | VALVE & VALVE BOX |
| 0+004.7 | 137.84 | 136.04 | 50mm# SERVICE CONNECTION |
| 0+005.2 | 137.82 | 136.02 | CAP |

INLET CONTROL DEVICE (ICD) TABLE

| STRUCTURE | 100 YEAR HEAD (m) | 100 YEAR OUTFLOW (L/s) | ORIFICE DIAMETER (mm) | ORIFICE TYPE |
|-----------|-------------------|------------------------|-----------------------|-----------------|
| DICB 2 | 1.38 | 29.60 | 108.2 | CIRCULAR, SLIDE |

50mm# WATER SERVICE GRADE TABLE

| STATION | FINISHED GRADE (m) | TOP OF WATER (m) | COMMENTS |
|---------|--------------------|------------------|--------------------------|
| 1+000 | 137.84 | 136.04 | 50mm# SERVICE CONNECTION |
| 1+010 | 138.00 | 136.20 | TOP OF WATER SERVICE |
| 1+020 | 138.07 | 136.27 | TOP OF WATER SERVICE |
| 1+024.3 | 138.09 | 136.29 | CAP |

NOTES

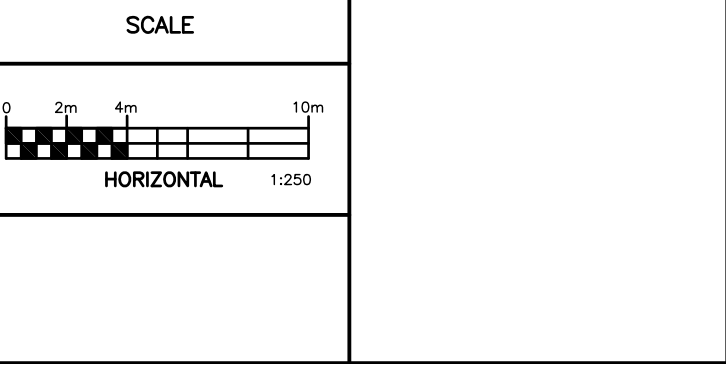
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

| NO. | REVISION DESCRIPTION | DATE | BY |
|-----|----------------------------------|----------|-----|
| 1 | ISSUED FOR SITE PLAN APPLICATION | 22/09/20 | SMC |

SCALE

0 2m 4m 10m

HORIZONTAL 1:250



Robinson Land Development

CONSULTING ENGINEERS

350 PALLADIUM DRIVE
KANATA, ONTARIO K2V 1A8
TELEPHONE (613) 592-6060

| DESIGN | BLM |
|----------|-----|
| CHECKED | SMC |
| DRAWN | BLM |
| CHECKED | SMC |
| APPROVED | SMC |

400 FRANKTOWN ROAD
TOWN OF CARLETON PLACE
COUNTY OF LANARK

SERVICING PLAN

PROJECT No. 18013

SURVEY RLD

DATED SEPTEMBER 2020

DWG. No. 18013-S1