

THOMAS J. WATSON RESEARCH CENTER

1101 KITCHAWAN ROAD, YORKTOWN HEIGHTS, NY 10598

SOLAR CARPORTS PROJECT NO: YK20KS05

IBM PROJECT MANAGER: **ARNIE VIMBA** PHONE NO: **914-945-2483**

PROJECT SCHEDULE

PRE BID MEETING DATE	-
DATE BIDS ARE DUE	-
ESTIMATED CONSTRUCTION START	-
ESTIMATED CONSTRUCTION COMPLETE	-

PROJECT SIGNOFFS

CUSTOMER NAME _____	DATE _____
PROJECT ENGINEER NAME _____	DATE _____
SAFETY/CODE COMPLIANCE NAME _____	DATE _____
COORDINATOR NAME _____	DATE _____
INSTRUMENTATION/CONTROLS NAME _____	DATE _____
ENVIRONMENTAL ENGINEERING NAME _____	DATE _____
MECHANICAL SYSTEMS ENGINEERING NAME _____	DATE _____
ELECTRICAL SYSTEMS ENGINEERING NAME _____	DATE _____
ARCHITECTURAL SYSTEMS ENGINEERING NAME _____	DATE _____
SECURITY NAME _____	DATE _____
FIRE SYSTEMS NAME _____	DATE _____
IES/IE NAME _____	DATE _____

DRAWING LIST

DWG #	DESCRIPTION
C.0-01	COVER SHEET
C.0-02	CIVIL - LEGENDS AND NOTES
C.1-01	CIVIL - SITE PLAN
C.1-02	CIVIL - ENLARGED SITE PLAN
C.1-03	CIVIL - ENLARGED SITE PLAN
C.1-50	CIVIL - EXISTING CONDITIONS PLAN
C.1-55	CIVIL - DEMOLITION PLAN
C.2-50	CIVIL - EROSION AND SEDIMENTATION CONTROL PLAN
C.2-51	CIVIL - EROSION AND SEDIMENTATION CONTROL PLAN
C.2-52	CIVIL - EROSION AND SEDIMENTATION CONTROL NARRATIVE
C.3-01	CIVIL - UTILITY PLAN
C.3-02	CIVIL - ENLARGED UTILITY PLAN
C.3-03	CIVIL - ENLARGED UTILITY PLAN
C.3-04	CIVIL - UTILITY PROFILES
C.3-05	CIVIL - UTILITY PROFILES
C.5-01	CIVIL - LANDSCAPE PLAN
C.6-01	CIVIL - SITE DETAILS

T.J. WATSON RESEARCH WASTE DISPOSAL AND HANDLING NOTES: (UPDATED AS OF 03/16/16)

*** ALL CONTRACTORS/VENDORS MUST SUBMIT ALL CHEMICAL PRODUCTS TO IBM FOR APPROVAL BEFORE BEING BROUGHT ON SITE AND BEFORE BEING USED ON SITE. ***

THIS LIST IS NOT ALL INCLUSIVE. ANY ITEMS NOT MENTIONED BELOW ARE TO BE BROUGHT TO THE IBM COORDINATORS ATTENTION FOR PROPER HANDLING AND DISPOSAL. CONTRACTORS SHOULD NEVER MAKE ASSUMPTIONS ON HOW TO HANDLE AN UNKNOWN OR SUSPICIOUS SUBSTANCE. CONTRACTORS SHOULD ALWAYS WEAR PROTECTIVE GEAR AND SCHEDULING WITH RFP PERSONNEL IS REQUIRED. IN ALL CASES BELOW, DO NOT DELIVER ANY MATERIAL TO RSP WITHOUT THE IBM COORDINATORS NAME AND/OR THE WASTE COORDINATORS NAME, AND THE PROPER CHARGE NUMBER. CONTACT YOUR FACILITY COORDINATOR FOR THIS CHARGE NUMBER.

- THE CONTRACTOR MUST MINIMIZE THE GENERATION OF ANY/ALL WASTE MATERIAL.
- IBM RESERVES THE RIGHT TO CHANGE THE CONTRACTOR FOR DISPOSAL COSTS IF ATTEMPTS HAVE NOT BEEN MADE TO MINIMIZE GENERATION OF WASTE MATERIAL.

- UNUSED, RAW MATERIALS WHICH CAN NO LONGER BE USED FOR ITS INTENDED PURPOSE MUST BE SURNDERED TO IBM FOR PROPER DISPOSAL.

- THE CONTRACTOR SHOULD MAKE ARRANGEMENTS WITH THE IBM PROJECT COORDINATOR FOR SUBMISSION OF THE WASTE MATERIAL, INCLUDING ATTACHMENT OF A COMPLETED "IBM HAZARDOUS WASTE DISPOSAL LABEL."

- IF RE-USABLE OR UNUSED RAW MATERIAL RESULTS FROM THE PROJECT, THE CONTRACTOR SHALL REMOVE THIS MATERIAL FROM THE SITE.

HAZARDOUS MATERIALS & WASTES

AT THE YORKTOWN SITE:
ALL HAZARDOUS MATERIALS & WASTES MUST BE DELIVERED TO THE RSP FOR PROPER DISPOSAL. ALL HAZARDOUS WASTES MUST BE LABELED WITH THE ORANGE "HAZARDOUS WASTE DISPOSAL LABEL" AND HAZARDOUS CONSTITUENTS IDENTIFIED. TYPICAL EXAMPLES ARE: CAUSTIC LIQUIDS, ACIDIC LIQUIDS, PVC CEMENT AND PRIMER CAN, HAZARDOUS METAL CAN, WET NON-ASBESTOS ROOFING CEMENT (TWO) CAN, WET POISSONABLE SEALER PART A & B CAN, LIGHT WATER BATTERY, BATTERY, CHARGING DETECTOR, SOLVENTS, GLUES, SEALANTS, ETC. HAZARDOUS MATERIALS & WASTES REQUIRING SPECIAL HANDLING AND CONTAINMENT; CONTACT YOUR IBM FACILITY COORDINATOR FOR FURTHER ASSISTANCE.

PLASTIC PIPING

AT THE YORKTOWN SITE:
PLASTIC PIPING WHICH HAS BEEN EXPOSED TO HAZARDOUS MATERIALS (E.G. LAB/CHEMICAL WASTE, GLYCOL, CHILLED WATER, HAZARDOUS WASTE) MUST BE REMOVED FROM THE WORK AREA AND DELIVERED TO THE RSP FOR PROPER DISPOSAL. HAZARDOUS MATERIALS & WASTES REQUIRING SPECIAL HANDLING AND CONTAINMENT; CONTACT YOUR IBM FACILITY COORDINATOR FOR FURTHER ASSISTANCE.

REFRIGERATION EQUIPMENT

REFRIGERATION EQUIPMENT BEING DISPOSED OF MUST HAVE REFRIGERANT AND OIL REMOVED PRIOR TO DISPOSAL. REMOVAL OF REFRIGERANT AND OIL ARE TO BE PERFORMED BY LICENSED, IBM APPROVED PERSONNEL ONLY. IF REFRIGERANT AND OIL ARE NOT BEING REUSED ON CURRENT PROJECT, THEY MUST BE DELIVERED AND DISPOSED OF AT THE RSP BUILDING. CONTACT YOUR IBM FACILITY COORDINATOR FOR FURTHER ASSISTANCE.

ASBESTOS

PRIOR TO A CONSTRUCTION ACTIVITY IBM WILL IDENTIFY THE ASBESTOS-CONTAINING MATERIALS THAT WILL BE IMPACTED IN THE WORK AREA AND WILL ARRANGE TO HAVE THEM PRETESTED OR REMOVED IF SUSPECTED MATERIAL IS FOUND DURING WORK ACTIVITIES. DO NOT DISTURB IT. CONTACT THE IBM COORDINATOR IMMEDIATELY. ONLY IBM AUTHORIZED NEW YORK STATE DEPARTMENT OF LABOR ASBESTOS CONTRACTORS MAY HANDLE ASBESTOS MATERIALS IN IBM FACILITIES AT THE YORKTOWN SITE.

801 BUILDING:

ASBESTOS-CONTAINING MATERIALS MAY BE PRESENT IN LABORATORY HOOD LININGS, ROOF MASTIC, PIPE SUPPORT PADS, VENTILATION DUCT AND FAN WINDING COILS. IT MAY ALSO BE PRESENT IN PIPING INSULATION IN MECHANICAL EQUIPMENT ROOMS, ABOVE DROP CEILING, IN CORES, LABS, AND THE BOILERROOM. IN ADDITION, FLOOR TILES IN THE BUILDING MAY CONTAIN ASBESTOS.

EXCEPTIONS:

THERE IS NO ASBESTOS THERMAL SYSTEM INSULATION (PIPE COVERING, FAN COVERING, ETC.) IN AISLES 1-6 OR 31-40.

FLEWELLEN HOUSE:

ASBESTOS IS PRESENT IN THE PLASTER COVERING THE EXTERIOR ARCH OVER THE MAIN ENTRANCE.

BERNEN HOUSE:

ASBESTOS IS PRESENT IN SOME SHEET ROCK AND PLASTER PATCHES IN CEILING MATERIALS IN THE LADIES LOCKER ROOM, SUNROOM AND FIRST FLOOR OFFICE ON THE WEST SIDE OF THE BUILDING. ASBESTOS MAY BE PRESENT IN OLDER BUILDING MATERIALS AND FLOOR TILES ALSO.

WATER TREATMENT PLANT:

ASBESTOS IS PRESENT IN THE ROOFING MATERIALS.

METAL

A. CONTAMINATED METAL

AT THE YORKTOWN SITE:
METAL WHICH HAS BEEN EXPOSED TO HAZARDOUS MATERIALS, CHEMICALS, HAZARDOUS WASTES, OR HAS BEEN ANY CHEMICAL CONSTITUENT FOR EXAMPLE LAB/CHEMICAL WASTE, GLYCOL, CHILLED WATER, HAZARDOUS WASTE, MUST BE REMOVED FROM THE WORK AREA AND DELIVERED TO THE RSP FOR PROPER DISPOSAL. HAZARDOUS MATERIALS & WASTES REQUIRING SPECIAL HANDLING AND CONTAINMENT; CONTACT YOUR IBM FACILITY COORDINATOR FOR FURTHER ASSISTANCE.

B. NON-CONTAMINATED METAL

AT THE YORKTOWN SITE:
ALL NON-CONTAMINATED METAL IS TO BE TRANSPORTED AND DEPOSITED IN THE SCRAP METAL ROLLOFF LOCATED AT THE RSP BUILDING. BRACK OR HEAVY PIECES OF NON-CONTAMINATED SCRAP METAL REQUIRING THE USE OF A FORK TRUCK TO UNLOAD OR LOAD MUST BE DELIVERED TO SCRAP METAL ROLLOFF. EXAMPLES OF RECYCLABLE NON-HAZARDOUS METAL INCLUDE ALL METAL CLEANING TUBS, EMPTY DRY PAINT CANS, EMPTY AND DRY NON-ASBESTOS ROOFING CEMENT (TWO) CANS, EMPTY AND DRY POISSONABLE SEALER PART A AND PART B CANS, NON-REUSABLE BASED FLOOR FLOOR, NON-ASBESTOS PANELS, NON-HAZARDOUS SERVICE PIPING SUCH AS: MEDIUM, 1" WATER, 1" HOT WATER, PROPANE, FORMING GAS, HELIUM, HYDROGEN, HOUSE WIREWORK, CLEAN HYDROGEN, OXYGEN, COMPRESSED AIR, COLD WATER, HOT WATER, SAFETY SHOWER PIPING, CLEAN DRYDEN, SANITARY WASTE.

DUCTWORK

A. EXHAUST DUCT

AT THE YORKTOWN SITE:
EXHAUST DUCT WHICH HAS BEEN EXPOSED TO CHEMICALS MUST BE DELIVERED TO THE YORKTOWN RSP BUILDING. DUCT SHOULD BE CUT INTO 3' LENGTHS AND DUCT ENDS SHOULD BE COVERED WITH PLASTIC AND DUCT TAPE.

B. SUPPLY/RETURN DUCT

AT THE YORKTOWN SITE:
SUPPLY/RETURN DUCT WHICH HAS NOT BEEN EXPOSED TO HAZARDOUS MATERIALS CONTAMINATION SHOULD BE FLATTENED (IF POSSIBLE) AND DEPOSITED INTO THE SCRAP METAL ROLLOFF AT THE RSP BUILDING.

CONSTRUCTION & DEMOLITION (C & D) DEBRIS

AT THE YORKTOWN SITE:
ALL C&D DEBRIS SHOULD BE DELIVERED TO THE RSP C&D ROLLOFFS FOR PROPER DISPOSAL. RECYCLABLE MATERIALS (E.G. METAL, CARDBOARD, PAPER) SHOULD BE REMOVED FROM C&D DEBRIS AND RECYCLED THROUGH THE APPROPRIATE EXISTING SITE RECYCLE PROGRAMS. ALL TRUCKS, GARBAGE, FOOD CONTAMINATED WASTES AND HAZARDOUS MATERIALS OR HAZARDOUS WASTES MUST BE REMOVED FROM C&D DEBRIS PRIOR TO DISPOSAL AT THE RSP. RSP PERSONNEL WILL REJECT RETURN ALL C&D LOADS WHICH CONTAINS FREE LIQUIDS, GARBAGE OR FOOD CONTAMINATED WASTES.

WOOD

AT THE YORKTOWN SITE:
ALL WOODEN BOXES, CRATES, STRUCTURES, ETC. MUST BE BROKEN DOWN FLAT PRIOR TO BEING DISPOSED.

WET CONCRETE SLURRY, RESIDUAL/EXCESS CEMENT, WASHING CONCRETE TRUCKS DOWN

AT THE YORKTOWN SITE:
ALL CONCRETE SLURRY AND WATER SHALL BE COLLECTED (FOR EXAMPLE, WITH A WET VACUUM) ALLOW SLURRY TO SETTLE OVERNIGHT AND DECANT CLEAR WATER TO AN IBM APPROVED SANITARY WASTE URINAL. REMOVE ALL EXCESS CONCRETE FROM HAND TOOLS PRIOR TO BRINGING TO AN IBM APPROVED SANITARY WASTE URINAL. WASH DRINKING AND BRUSHING TOOLS, BRUSH WITH LARGE QUANTITIES OF WATER. ALL EXCESS CEMENT SHALL BE COLLECTED AND CONTAINED AND ALLOWED TO CURE PRIOR TO DELIVERY TO RSP CONSTRUCTION DEBRIS ROLLOFF. CONTACT IBM FACILITY COORDINATOR FOR FURTHER ASSISTANCE.

EXCESS CONCRETE

THE CONTRACTOR SHOULD TAKE PRECISE MEASUREMENTS AND CALCULATIONS TO ENSURE EXCESS CONCRETE DISPOSAL IS KEPT TO A MINIMUM. WHEN MULTIPLE CONCRETE POURS ARE PLANNED, THE CONTRACTOR WILL SEGREGATE IN AREA THAT IS APPROVED BY IBM TO WASTE THE CONCRETE. THE CONCRETE WILL BE WASTED BY SPREADING OUT THE WET CONCRETE, ALLOWING IT TO HARDEN, REDUCE THE SIZE INTO SMALLER PIECES AND LOADING THE HARDENED CONCRETE PIECES INTO AN IBM SUPPLIED DUMPER FOR RECYCLE. AN ALTERNATIVE TO WASTING THE CONCRETE IS TO POUR THE EXCESS CONCRETE INTO CONTRACTOR CONSTRUCTED 1.5' X 1.5' X 6' (1/2" CY) BOX FORMS. A WOOD SHAPED RICE OF 1/2" HIGH WILL BE CAST INTO THE WET CONCRETE, THE TOP SHAPED LEVEL AND THEN LASTLY THE FORMS STRIPPED WHEN THE CONCRETE IS CURED. IBM WILL DIRECT THE CONTRACTOR WHERE TO STORE THE BLOCKS.

CONTACT IBM FACILITY COORDINATOR FOR FURTHER ASSISTANCE.

AT THE YORKTOWN SITE:

CONCRETE BLOCK WASH DOWN

CONCRETE BLOCK WASH DOWN SHALL OCCUR IN AN AREA THAT IS APPROVED BY IBM TO WASH OUT THE CONCRETE TRUCKS. THE AREA MUST BE RINSE WITH WATER COURSES OR WETLANDS. THE CONCRETE WASH DOWN WATER WILL BE MINIMIZED TO AVOID OVERLAND FLOW. THE CONCRETE WASH DOWN AREA WILL BE COMPOSED OF A CIRCLE OF HAY BALES TOPPED WITH FILTER FABRIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND/OR RESTORING THE HAY BALES/FILTER FABRIC FOR THE DURATION OF THE PROJECT OR UNTIL NO LONGER NEEDED. ANY HARDENED CONCRETE WILL BE RECYCLED IN 2" SMALL PIECES AND LOADED INTO AN IBM SUPPLIED DUMPER FOR RECYCLE. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR IS RESPONSIBLE TO REMOVE THE HAY BALES/FILTER FABRIC MATERIALS AND RESTORE THE SITE TO ITS ORIGINAL CONDITION.

CARDBOARD

AT THE YORKTOWN SITE:
ALL CARDBOARD MUST BE FLATTENED PRIOR TO RECYCLING AND DELIVERED TO THE 20-2 CARDBOARD BAILING AREA. CONTACT YOUR IBM FACILITY COORDINATOR FOR FURTHER ASSISTANCE.

ELECTRICAL WIRE

AT THE YORKTOWN SITE:
SMALL AMOUNTS OF SCRAP WIRE SHOULD BE DEPOSITED INTO THE SCRAP METAL ROLLOFF AT RSP BUILDING. LARGE AMOUNTS OF SCRAP WIRE CAN BE COLLECTED IN CARDBOARD TUBES/STACKS AND DELIVERED TO THE RSP FOR RECYCLING.

OTHER RECYCLABLES

AT THE YORKTOWN SITE:
A. LIGHT FIXTURES, BULBS AND BALLASTS AT THE YORKTOWN SITE SHALL BE DELIVERED TO THE RSP BUILDING PRIOR TO DELIVERY. BULBS ARE TO BE SEPARATED AND WRAPPED IN A BUNDLE AND ALL LIGHT FIXTURES SHALL BE HALOGENATED AND SHAVED.

B. SMOKE DETECTORS SHALL BE DELIVERED TO THE RSP BUILDING.

C. GLASS, PLASTIC AND OTHER POTENTIALLY RECYCLABLE MATERIALS, CONTACT YOUR IBM FACILITY COORDINATOR FOR FURTHER ASSISTANCE.

CHILLED WATER & GLYCOL SYSTEMS

AT THE YORKTOWN SITE:
BEFORE DRAINING ANY LIQUIDS IN ANY DRAIN ALWAYS CHECK WITH YOUR IBM FACILITY COORDINATOR FOR APPROVAL AND CORRECT DRAINAGE SYSTEM. WHEN DRAINING CHILLED WATER SYSTEMS, ALL CHILLED WATER PIPING IS TO BE FLUSHED WITH COLD WATER PRIOR TO REMOVAL. CHILLED WATER IS TO BE DRAINED IN SANITARY DRAINS ONLY. WHEN DRAINING GLYCOL SYSTEMS, THE GLYCOL IS TO BE DRAINED IN LAB CHEMICAL WASTE DRAIN ONLY. UNLESS REQUIRED TO BE COLLECTED AND RE-USED; SEE YOUR IBM FACILITY COORDINATOR BEFORE DRAINING OR FOR FURTHER ASSISTANCE.

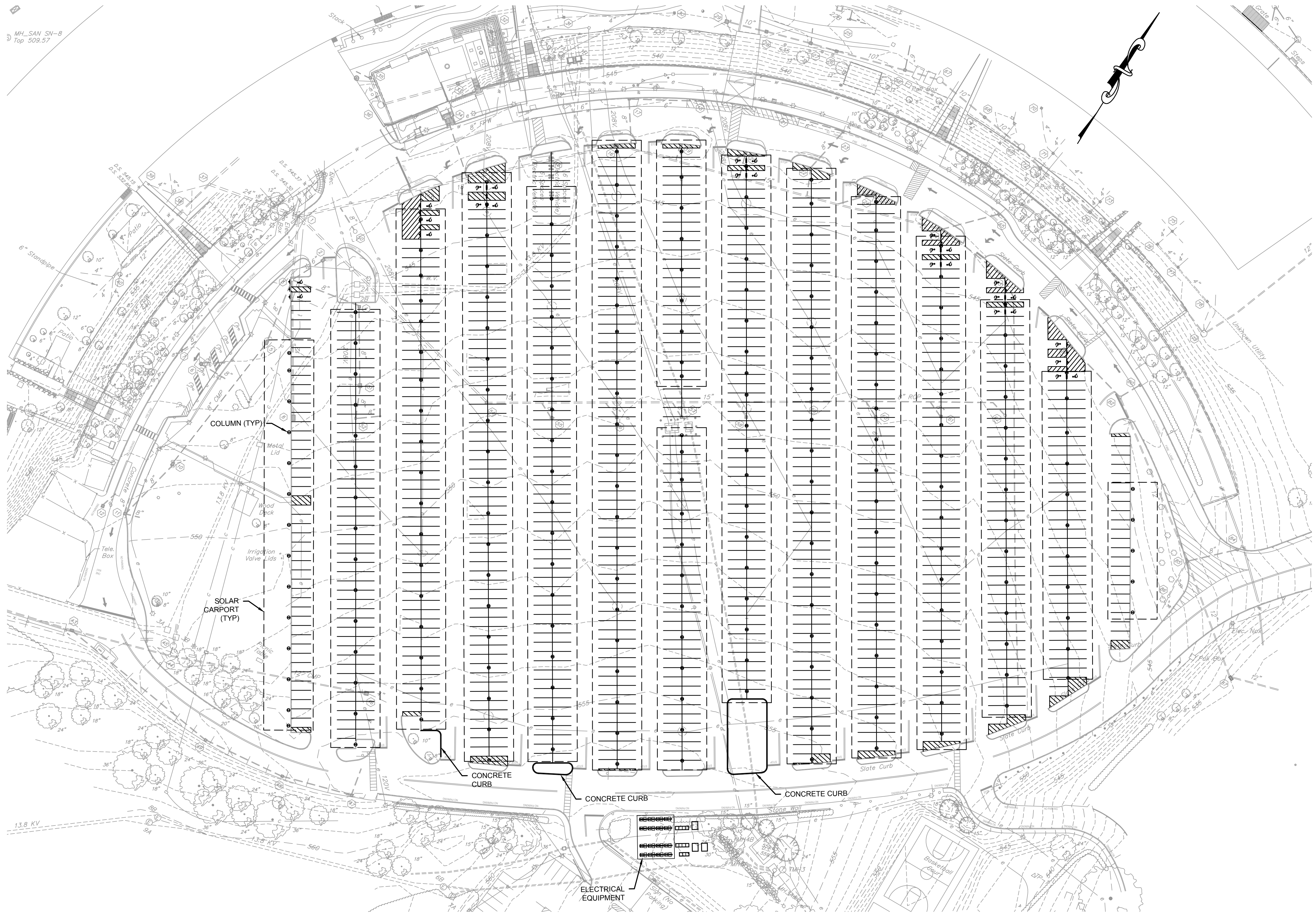
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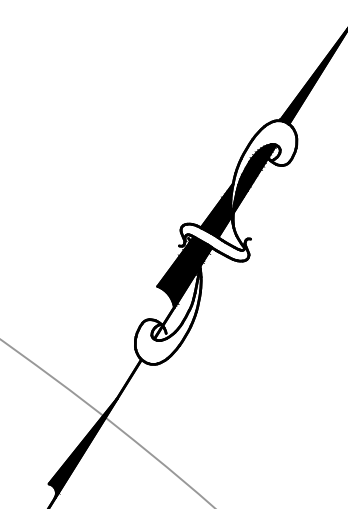
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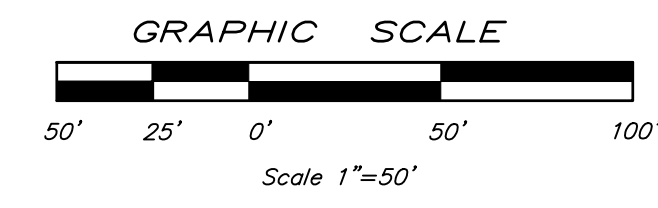


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PARKING REQUIREMENTS:
TOWN CODE REQUIREMENT FOR PARKING SPACES - 1,492
PROVIDED PARKING SPACES - 1,621*
*THIS INCLUDES THE MAIN EMPLOYEE PARKING LOT AND SATELLITE PARKING LOT

- NOTES:**
- REFER TO PLANS BY OTHERS FOR DETAILED SOLAR CARPORT DESIGN INFORMATION.
 - ALL PARKING SPACES, INCLUDING HANDICAP SPACES, SHALL BE 9'x18' IN SIZE. REFER TO SHEET C.6-01 FOR STRIPING AND SIGN DETAILS.
 - THE ENTIRE EMPLOYEE PARKING LOT SHALL BE SEAL COATED PRIOR TO RESTRIPING. SEAL COATING AND RESTRIPING SHALL TAKE PLACE AFTER ALL SOLAR CARPORTS HAVE BEEN INSTALLED.
 - ALL PROPOSED PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH NEW YORK STATE DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND STANDARDS. PAVEMENT MARKINGS SHALL BE AS FOLLOWS:
WHITE (12" STOP BAR IN ACCESS AISLES, 4" DIAGONAL LINES, 4" PARKING STALL LINES)
YELLOW (4" DOUBLE LINES IN ACCESS AISLES)
BLUE (HANDICAP SPACE LINES AND SYMBOLS)
 - MAIN EMPLOYEE PARKING LOT PARKING SPACE SUMMARY:
EXISTING PARKING SPACES - 1,514
PROPOSED PARKING SPACES - 1,419 (INCLUDES 27 HANDICAP SPACES)



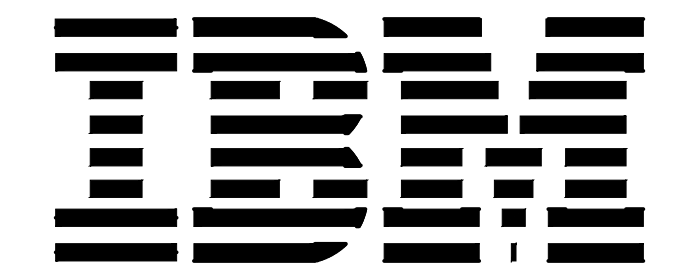
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FACILITIES DESIGN
COMPUTER GRAPHICS

FACILITIES ENGINEERING
REARRANGEMENT ENGINEERING
FACILITIES PLANNING

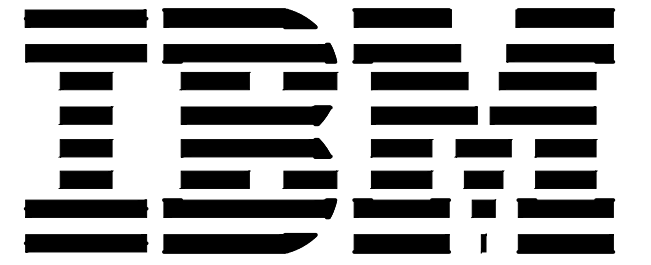
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C	10/27/20	ISSUED FOR PERMITTING	AMW
B	10/13/20	90% CLIENT REVIEW	AMW
A	08/12/20	REVISE PER CLIENT REQUEST	AMW

SHEET TITLE:
**WATSON RESEARCH CENTER
SOLAR CARPORTS**

CIVIL
SITE PLAN

DRAWN BY: MBD	SCALE: AS NOTED
CHECKED BY: NAS	DATE: 07/09/20
PROJECT NO. YK20KS05	DRAWING NO. C.1-01
SHEET OF	

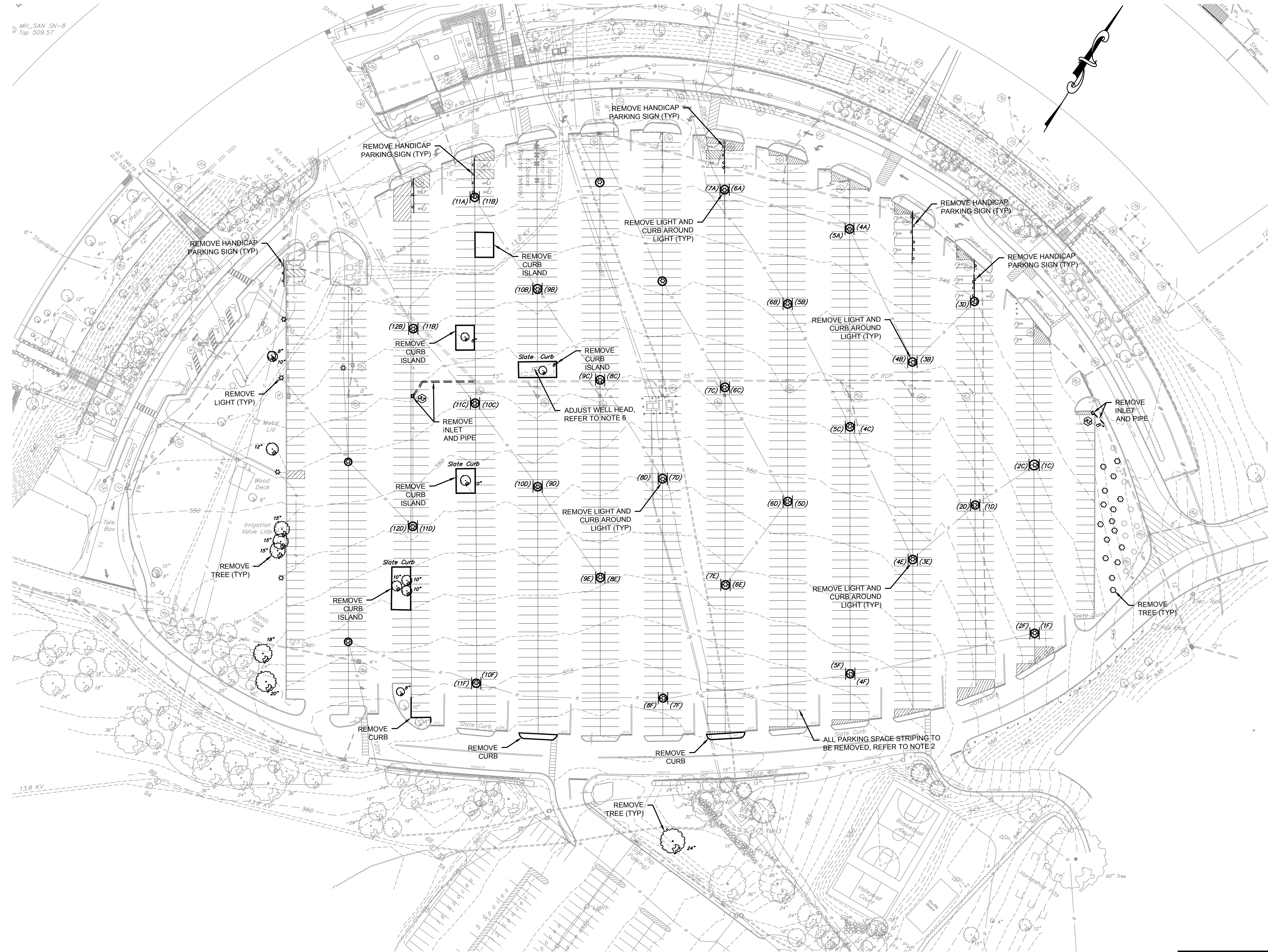


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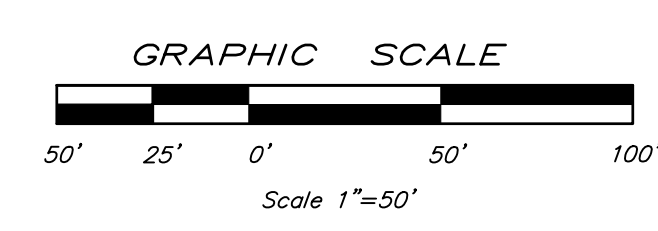
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- NOTES:
1. ALL BOLD FEATURES ARE TO BE REMOVED, UNLESS OTHERWISE NOTED.
 2. ALL EXISTING PARKING SPACE STRIPING SHALL BE REMOVED IN THE MAIN EMPLOYEE PARKING LOT. THIS WILL BE ACCOMPLISHED BY SEAL COATING THE PARKING LOT.
 3. ALL EXISTING LIGHTS, AND ASSOCIATED CURB, IN THE MAIN EMPLOYEE PARKING LOT SHALL BE REMOVED.
 4. ALL EXISTING HANDICAP SIGNING IN THE MAIN EMPLOYEE PARKING LOT SHALL BE REMOVED.
 5. ALL CURB ISLANDS NOTED TO BE REMOVED SHALL BE REPLACED BY FULL DEPTH PAVING.
 6. THE EXISTING WELL HEAD SHALL BE ADJUSTED TO BE FLUSH WITH THE FINAL PAVING, AS DIRECTED BY IBM ENVIRONMENTAL.



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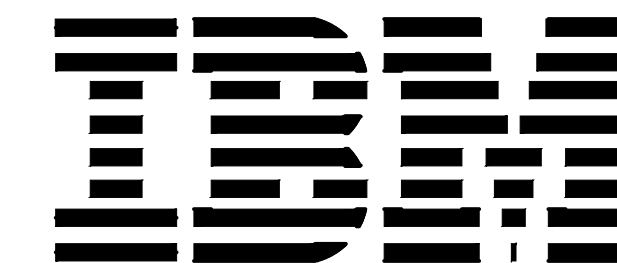
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SOLAR CARPORTS**

**CIVIL
DEMOLITION PLAN**

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PROJECT NO. YK20KS05	DRAWING NO. C.1-55
SHEET OF	

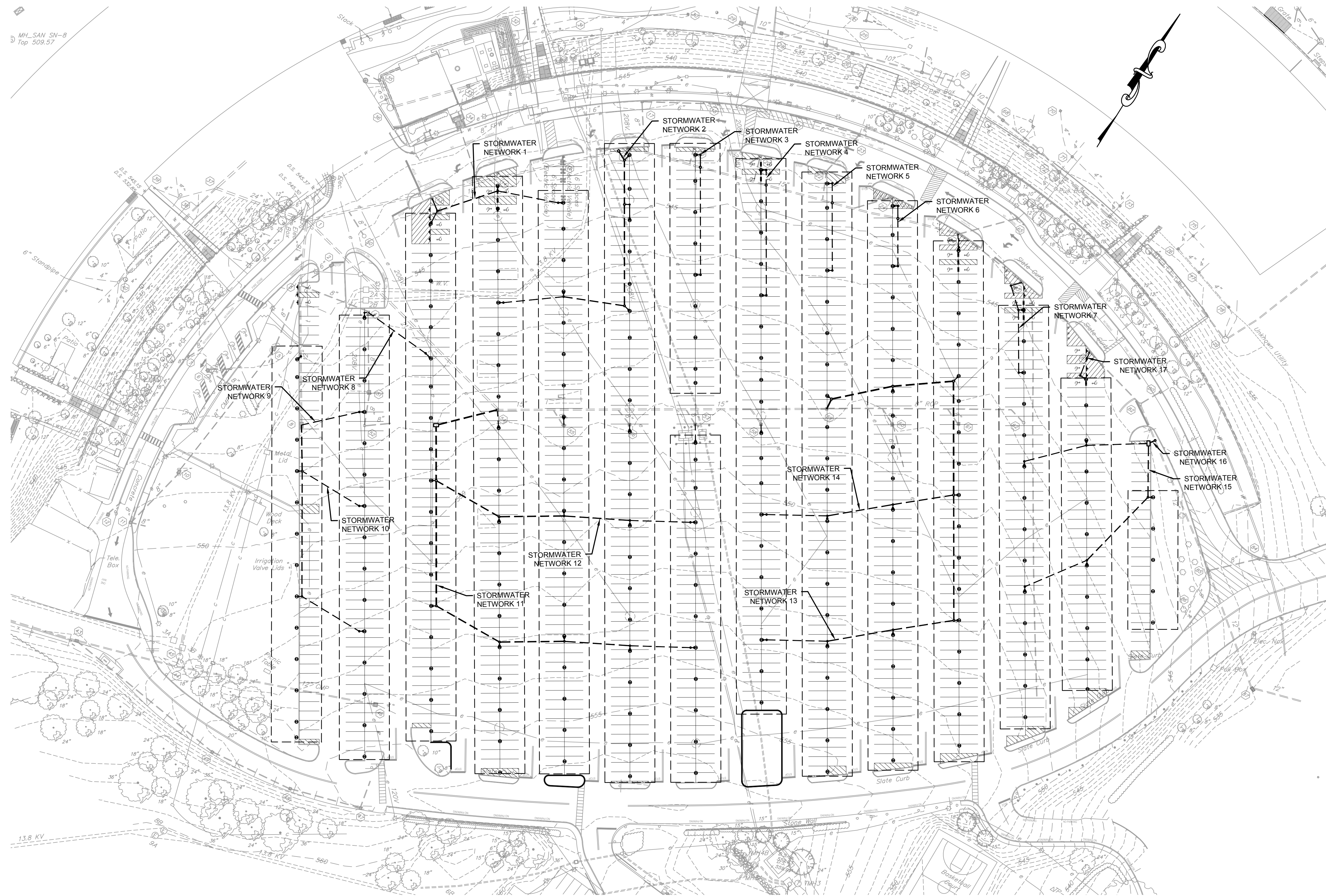


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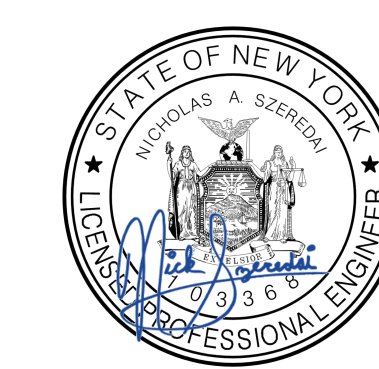
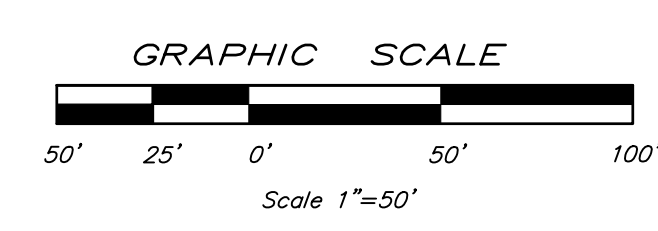
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