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REV.	DATE	DESCRIPTION
1	2024.05.14	ISSUED FOR PRICING
2	2024.05.19	ISSUED FOR PRICING ADDENDUM 1

CONSULTANT:

SEAL:

PROJECT TITLE:
EAGLE RIDGE POOL UPGRADES

PROJECT ADDRESS:
 2689 GUILDFORD WAY
 COQUITLAM, BC

DRAWN BY	QSC
CHECKED BY	NG
SCALE	NTS
DATE	05.11.2024

DRAWING TITLE:
COVER PAGE

PROJECT NO.	DRAWING NO.
025b-015-26	M001

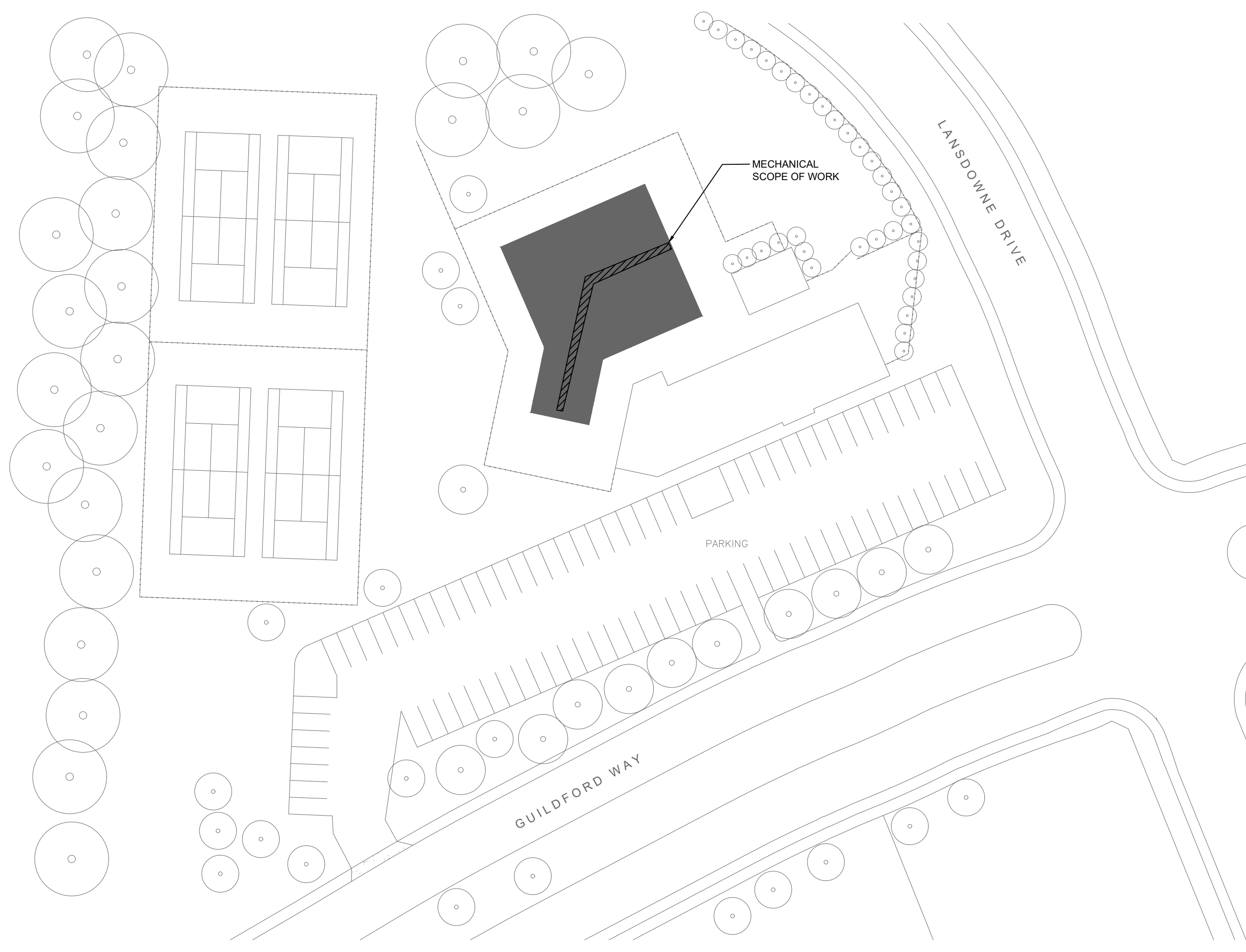
SYMBOL SCHEDULE	
PIPING SYSTEMS	SYSTEM MONITORING AND CONTROLS
DOMESTIC COLD WATER (DCW) DOMESTIC HOT WATER (DHW) DOMESTIC HOT WATER RECIRC. (DHWRC) SANITARY VENT SANITARY SEWER ABOVE GRADE SANITARY SEWER BELOW GRADE STORM SEWER ABOVE GRADE STORM SEWER BELOW GRADE DRAIN TILE IRRIGATION GAS CONDENSATE DRAIN HEATING WATER SUPPLY HEATING WATER RETURN CHILLED WATER SUPPLY CHILLED WATER RETURN CONDENSER WATER SUPPLY CONDENSER WATER RETURN REFRIGERANT SUCTION (GAS) REFRIGERANT LIQUID	ROOM TEMPERATURE SENSOR REVERSE ACTING TEMPERATURE SENSOR TEMPERATURE SENSOR HUMIDITY SENSOR CO ₂ SENSOR PIPE TEMPERATURE SENSOR PRESSURE GAUGE THERMOMETER FLOW SWITCH GAS METER WATER METER CONTROL WIRING
FITTINGS AND VALVES	DUCTWORK
DIRECTION OF FLOW PIPE DROP PIPE RISE PIPE TEE UP PIPE TEE DOWN TURNING VANES ACOUSTIC INSULATION BALANCING DAMPER BACKDRAFT DAMPER MOTORIZED DAMPER FIRE DAMPER - VERTICAL ISOLATION VALVE ISOLATION VALVE (NORMALLY CLOSED) CHECK VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE SOLENOID VALVE BALANCING VALVE CIRCUIT SETTER VALVE PRESSURE REDUCING VALVE PRESSURE INDEPENDENT VALVE STRAINER RELIEF VALVE BACKFLOW PREVENTOR AUTOMATIC AIR VENT SEISMIC GAS SHUT-OFF VALVE PIPE ANCHOR EXPANSION JOINT FLEX COUPLING PIPE SLEEVE HEAT TRACING	SUPPLY OR OUTDOOR AIR DUCT UP SUPPLY OR OUTDOOR AIR DUCT DOWN RETURN AIR DUCT UP RETURN AIR DUCT DOWN EXHAUST AIR DUCT UP EXHAUST AIR DUCT DOWN TURNING VANES ACOUSTIC INSULATION BALANCING DAMPER BACKDRAFT DAMPER MOTORIZED DAMPER FIRE DAMPER - VERTICAL ISOLATION VALVE ISOLATION VALVE (NORMALLY CLOSED) CHECK VALVE 2-WAY CONTROL VALVE 3-WAY CONTROL VALVE SOLENOID VALVE BALANCING VALVE CIRCUIT SETTER VALVE PRESSURE REDUCING VALVE PRESSURE INDEPENDENT VALVE STRAINER RELIEF VALVE BACKFLOW PREVENTOR AUTOMATIC AIR VENT SEISMIC GAS SHUT-OFF VALVE PIPE ANCHOR EXPANSION JOINT FLEX COUPLING PIPE SLEEVE HEAT TRACING
OUTLETS AND DRAINS	FIRE PROTECTION
OPEN DRAIN HOSE-BIB FLOOR DRAIN FUNNEL FLOOR DRAIN ROOF DRAIN AREA DRAIN P-TRAP VENT TO ABOVE	FIRE EXTINGUISHER FIRE DEPARTMENT SIAMESE CONNECTION PENDANT SPRINKLER HEAD EXT. COVERAGE PENDANT SPRINKLER HEAD UPRIGHT SPRINKLER HEAD EXT. COVERAGE UPRIGHT SPRINKLER HEAD UP AND DOWN SPRINKLER HEAD UP AND DOWN EXTENDED COVERAGE HEAD SIDEWALL SPRINKLER HEAD EXTENDED COVERAGE SIDEWALL HEAD DRY SPRINKLER ALARM VALVE WET SPRINKLER SUPPLY LINE DRY SPRINKLER SUPPLY LINE PRE-ACTION SPRINKLER LINE FIRE LINE TO STANDPIPE
MECHANICAL EQUIPMENT	EQUIPMENT TAGS & CALLOUTS
PUMP CABINET FAN PROPELLER FAN UNIT HEATER FORCE FLOW HEATER REHEAT COIL	GRILLE TYPE NECK/GRILLE SIZE AIR VOLUME EQUIPMENT/FIXTURE TYPE GENERAL NOTE DRAWING REVISION DETAIL NUMBER DRAWING NUMBER SECTION NUMBER DRAWING NUMBER

MECHANICAL ABBREVIATIONS	
AD AREA DRAIN	KW KILOWATT
AFF ABOVE FINISHED FLOOR	KS KITCHEN SINK
AHU AIR HANDLING UNIT	LV LAVATORY
ARCH ARCHITECTURAL	LAT LEAVING AIR TEMPERATURE
BB BASEBOARD HEATER	LWT LEAVING WATER TEMPERATURE
BDD BACKDRAFT DAMPER	MAU MAKE-UP AIR UNIT
BF BOTTLE FILLER	MAX MAXIMUM
BFP BACKFLOW PREVENTER	MH MANHOLE
BHP BREAK HORSEPOWER	MBH 1000 BRITISH THERMAL UNITS/HOUR
BMS BUILDING MANAGEMENT SYSTEM	MD MOTORIZED DAMPER
BT BATH TUB	MECH MECHANICAL
CB CATCH BASIN	MIN MINIMUM
CFM CUBIC FEET PER MINUTE	NFHB NON FREEZE HOSE BIB
CLG CEILING	NIC NOT IN CONTRACT
CO CLEANOUT	NC NOISE CRITERIA/NORMALLY CLOSED
CONN CONNECTION	NO NORMALLY OPEN
OWY COMPLETE WITH	NTS NOT TO SCALE
CONT CONTINUATION	O/A OUTDOOR AIR
CTE CONNECT TO EXISTING	OBDD OPPOSED BLADE DAMPER
DB DRY BULB	OED OPEN ENDED DUCT
DCVA DOUBLE CHECK VALVE ASSEMBLY	OD OUTSIDE DIAMETER
DDC DIRECT DIGITAL CONTROL	PCC POINT OF CONNECTION
DEG DEGREE	PRV PRESSURE REDUCING VALVE
DF DRINKING FOUNTAIN	PSI POUNDS PER SQUARE INCH
DIA DIAMETER	RA RETURN AIR
DN DOWN	RF RETURN FAN
DUC DUAL CHECK VALVE	RM ROOM
DW DISH WASHER	RPM REVOLUTIONS PER MINUTE
DRG DRAWING	RWL RAIN WATER LEADER
E/A EXHAUST AIR	S/A SUPPLY AIR
EAT ENTERING AIR TEMPERATURE	SF SUPPLY FAN
EF EXHAUST FAN	SH SHOWER
EFF EFFICIENCY	SK SINK
ELEC ELECTRICAL	SS STAINLESS STEEL
ENT ENTERING	SP STATIC PRESSURE
ESP EXTERNAL STATIC PRESSURE	SPEC SPECIFICATION
EWT ENTERING WATER TEMPERATURE	ST STORM
EXH EXHAUST	T/A TRANSFER AIR
FA FROM ABOVE	TA TO ABOVE
FB FROM BELOW	TB TO BELOW
FD FLOOR DRAIN	TBC TO BE CONFIRMED
FE FIRE EXTINGUISHER	TBD TO BE DETERMINED
FFD FUNNEL FLOOR DRAIN	TD TRENCH DRAIN
FLA FULL LOAD AMPS	THRU THROUGH
FLR FLOOR	TS TAMPER SWITCH
FPM FEET PER MINUTE	TSP TOTAL STATIC PRESSURE
GPM GALLONS PER MINUTE	TYP TYPICAL
GWB GYPSUM WALL BOARD	UR URINAL
HD HUB DRAIN	VFD VARIABLE FREQUENCY DRIVE
HB HOSE BIBB	VTR VENT THROUGH ROOF
HP HORSEPOWER	W WATER MAIN
ID INSIDE DIAMETER	WB WET BULB
INV INVERT	WC WATER CLOSET
JS JANITOR SINK	WG WATER GAUGE

MECHANICAL DRAWING LIST		
DRAWINGS NO.	DESCRIPTION	SCALE
M001	COVER PAGE	NTS
M101	POOL TANK UPGRADES - MECHANICAL	NTS
M102	DETAILS	NTS

LEGAL ADDRESS: PLAN NWP53820
 CITY OF COQUITLAM
 METRO VANCOUVER REGIONAL DISTRICT

CIVIC ADDRESS: 2689 GUILDFORD WAY
 COQUITLAM, B.C.
 V3B 7Y5



1 SITE PLAN
 M001 SCALE: NTS
 PROJECT NORTH

- GENERAL NOTES**
- THE MECHANICAL SYSTEM SHALL CONSIST OF ALL WORK SHOWN ON THE DRAWINGS, DIAGRAMS, SCHEMATICS AND AS DESCRIBED IN THE SPECIFICATIONS.
 - THE MECHANICAL PLANS ARE DIAGRAMMATIC IN NATURE AND DO NOT ATTEMPT TO SHOW ALL REQUIRED OFFSETS. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL CONSTRUCTION DETAILS.
 - COORDINATE THE DRAWINGS WITH THE SPECIFICATIONS AND IN CASES WHERE CONFLICTS OCCUR THE MOST STRINGENT REQUIREMENT SHALL APPLY.
 - CONTRACTOR TO COORDINATE ALL MECHANICAL WORK WITH THAT OF OTHER TRADES TO ENSURE PROPER AND ADEQUATE INTERFACE WITH THE WORK OUTLINED FOR THIS PROJECT.
 - THE CONTRACTOR SHALL BE REQUIRED TO ATTEND A PRE-BID WALK THROUGH TO ENSURE A PROPER UNDERSTANDING OF THE MECHANICAL SCOPE OF WORK.
 - CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND VERIFYING ACTUAL ON-SITE CONDITIONS AND EQUIPMENT LOCATIONS PRIOR TO ANY AND ALL DEMOLITION WORK AND/OR EQUIPMENT REMOVAL.
 - CONTRACTOR TO INCLUDE AS A PART OF THE BID ALL COSTS ASSOCIATED WITH CUTTING AND PATCHING THAT IS REQUIRED TO INSTALL ALL NEW MECHANICAL SYSTEMS AS REQUIRED TO MEET THE SITE CONDITIONS AS SHOWN ON THE DRAWINGS. PATCHING SHALL MEET THE AESTHETIC CONDITIONS WHICH WAS THE CONDITION PRIOR TO ANY CUTTING BEING PERFORMED.
 - CONTRACTOR TO PROPERLY SEAL AND REPAIR ANY AND ALL DAMAGE THAT IS A RESULT OF REMOVAL OR DEMOLITION OF MECHANICAL EQUIPMENT. THIS INCLUDES BUT IS NOT LIMITED TO WALL, DOOR, CEILINGS, ETC.
 - THE EXISTING DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. AS A RESULT, THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT.
 - DURING REMOVAL OF ITEMS SO INDICATED, CAUTION SHOULD BE USED TO PREVENT DAMAGE TO ANY EQUIPMENT HAVING SALVAGE VALUE. ALL REUSABLE SALVAGED MATERIAL SHALL REMAIN THE PROPERTY OF THE OWNER AND BE RETAINED FOR THEIR INSPECTION. ONLY ITEMS AGREED BY THE OWNER SHALL BE DISPOSED OF BY THE CONTRACTOR.
 - CONTRACTOR SHALL COORDINATE AND SCHEDULE WORK WITH FACILITY TO LIMIT INTERFERENCE WITH OPERATIONS.
 - IN ADDITION TO THESE DRAWINGS, CONTRACTOR TO ALLOW FOR ALL WORK OUTLINED IN MECHANICAL SPECIFICATIONS 220500 (COMMON WORK PLUMBING) AND 225113 (SWIMMING POOL PIPING).

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2.	2024.05.19	ISSUED FOR PRICING ADDENDUM 1

CONSULTANT:

SEAL:

PROJECT TITLE:
EAGLE RIDGE POOL UPGRADES

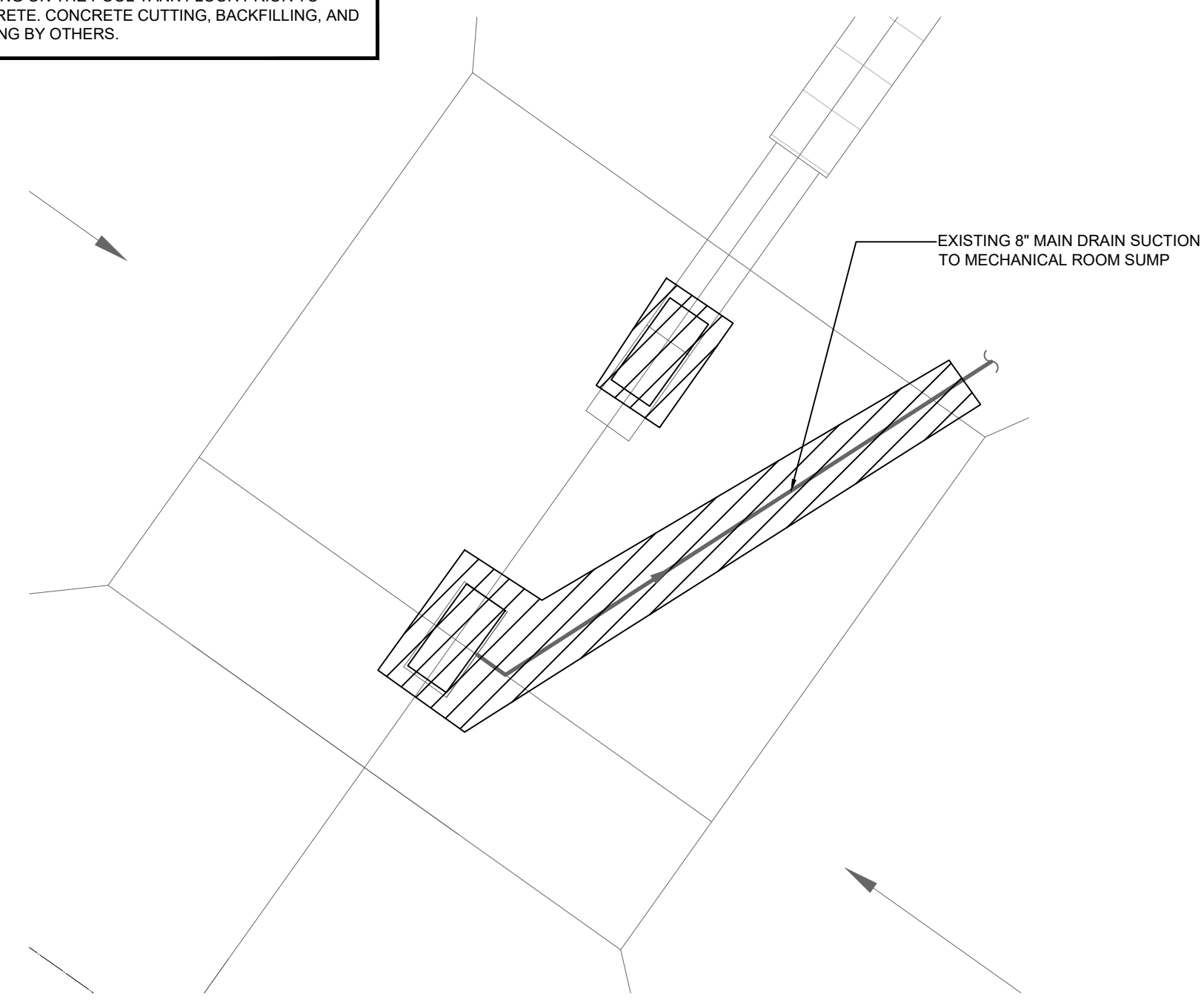
PROJECT ADDRESS:
 2689 GUILDFORD WAY
 COQUITLAM, BC

DRAWN BY: QSC
 CHECKED BY: NG
 SCALE: NTS
 DATE: 05.11.2024

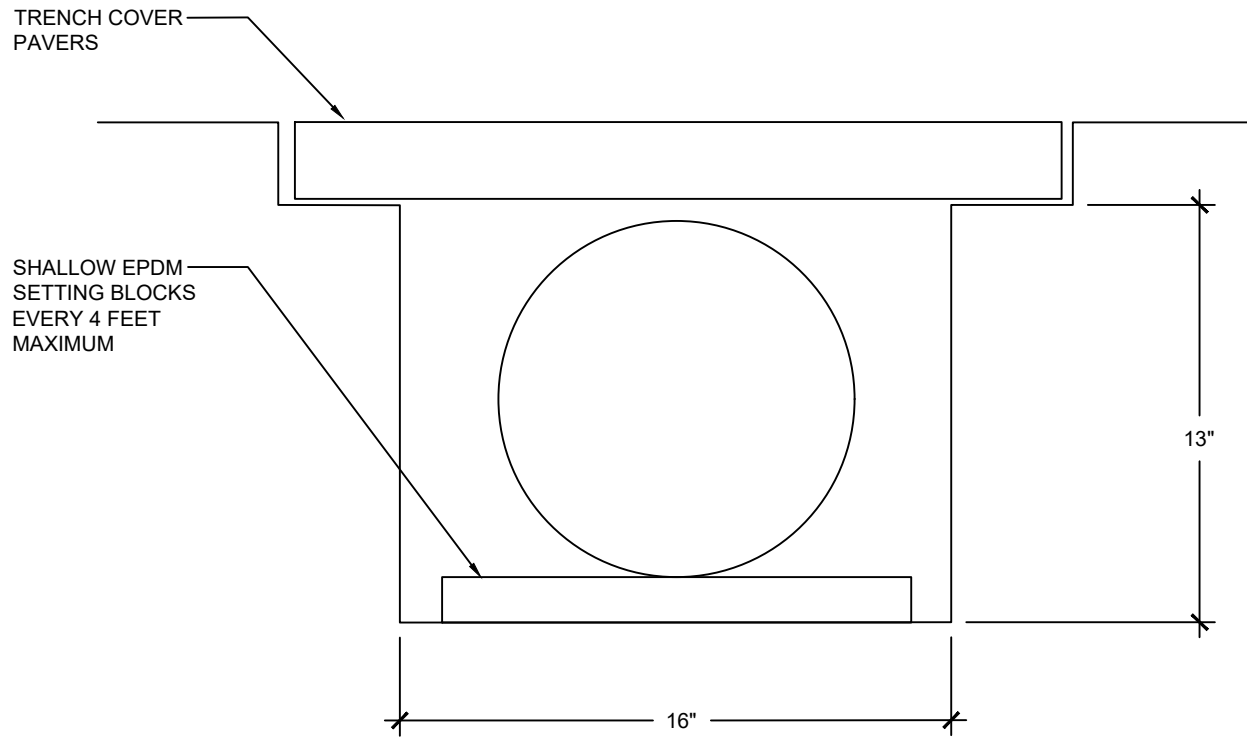
DRAWING TITLE:
POOL TANK UPGRADES - MECHANICAL

PROJECT NO. DRAWING NO.
025b-015-26 M101

DEMOLITION NOTES:
 DEMOLISH EXISTING MAIN DRAIN COVERS AND PIPING AS SHOWN.
 MECHANICAL CONTRACTOR TO SCAN DRAIN PIPE TO TRACE THE PIPE ROUTING ON THE POOL TANK FLOOR PRIOR TO CUTTING CONCRETE. CONCRETE CUTTING, BACKFILLING, AND WATER PROOFING BY OTHERS.



2 POOL TANK DEMOLITION
 M101 SCALE: NTS

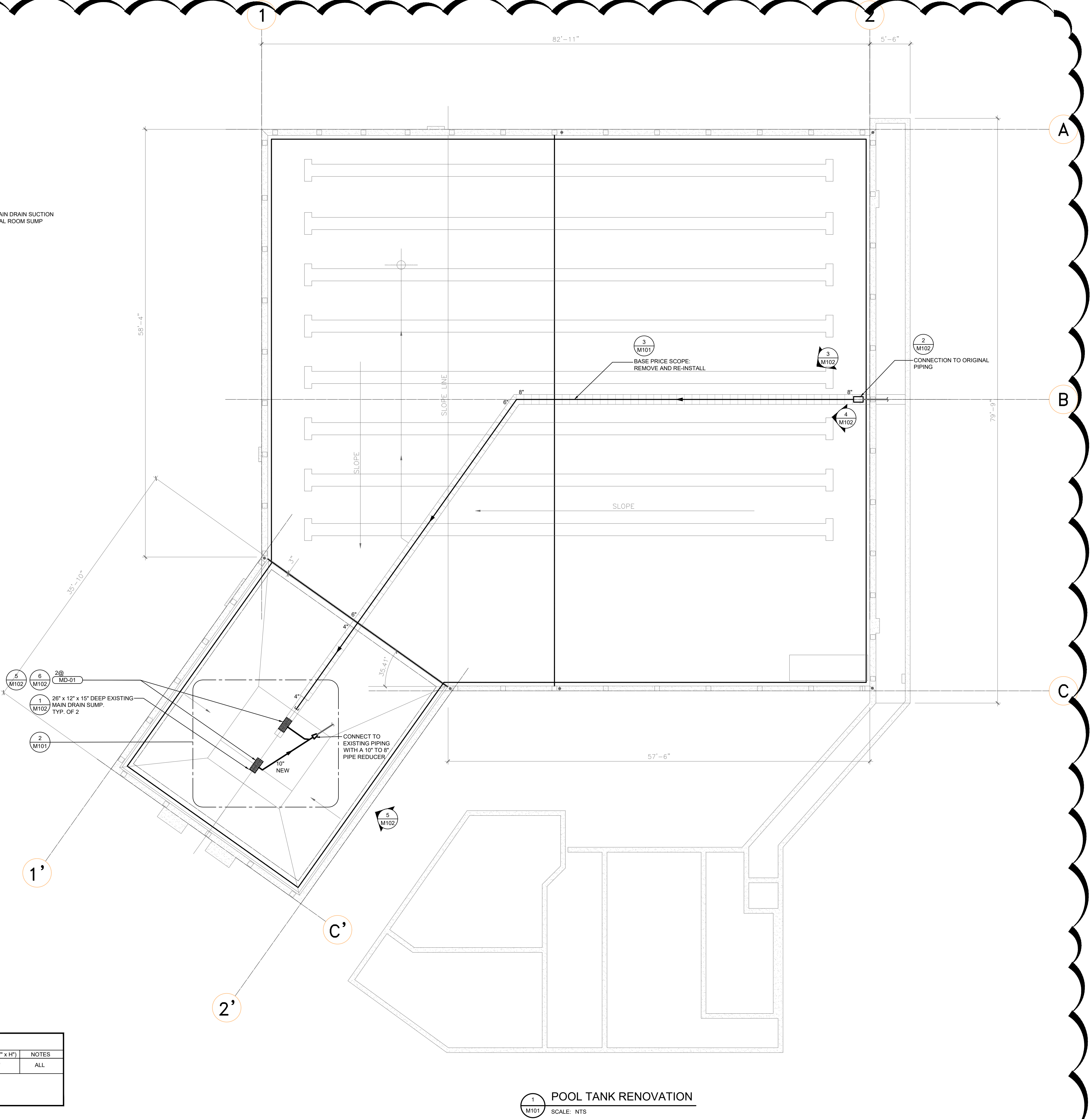


3 SUPPLY PIPE SETTING BLOCK
 M101 SCALE: NTS

GENERAL NOTES:
THE BASE MECHANICAL SCOPE IS THE FOLLOWING:
 CONTRACTOR TO CONFIRM ALL DIMENSIONS AND CONDITIONS ON SITE.
 DISCONNECT AND REMOVE THE PERFORATED WATER SUPPLY PIPING OUT OF THE POOL TANK-TRENCH TEMPORARILY TO FACILITATE THE TRENCH REPAIRS SCOPE (TRENCH REPAIRS BY OTHERS).
 RE-INSTALL THE PERFORATED WATER SUPPLY PIPING. CONTRACTOR TO ALLOW FOR THE REPLACEMENT OF EXISTING MJ COUPLING WITH HULK FERINCO COUPLINGS.
 PROVIDE SHALLOW EPDM RUBBER SETTINGS BLOCKS BETWEEN THE BOTTOM OF THE TRENCH AND THE REINSTALLED PIPING.
 DEMO EXISTING MAIN DRAIN GRATES AND PIPING AS SHOWN.
 CONNECT TO EXISTING PIPING. INCREASE PIPE SIZE TO 10", AND ADD A 10" PIPE TO THE TWO NEW MAIN DRAINS SPECIFIED.
 PROVIDE TWO NEW MAIN DRAINS AND GRATES (SPECIFIED, SEE SCHEDULE). SUMP AND GRATE SOFA CERTIFIED TO APSP/ANSI/ICC-16 2017, NSF/ANSI/CAN 50-2020 AND USPC. NOTE THAT RPD FIELD CERTIFICATION IS NOT REQUIRED.

EQUIPMENT TAG	MANUFACTURER	MODEL	DESCRIPTION	DIMENSIONS (L" x W" x H")	NOTES
MD-01	DALDORADO	DALMAX-SG-242421-BEAST	ANTI-ENTRAPMENT SUMP (1734 GPM MAX FLOW) SLIP RESISTANT GRATE	24" x 24" x 21"	ALL

NOTES:
 1. ANSI 61 COMPLIANT
 2. FASTENERS TO BE 316 STAINLESS STEEL OR BETTER
 3. RPD FIELD CERTIFICATION NOT REQUIRED
 4. GRATE TO BE INSTALLED WITH 316SS 1/4" - 20x1.25" MACHINE SCREWS



1 POOL TANK RENOVATION
 M101 SCALE: NTS

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DALMAX-SG-242421-BEAST

GRATE DETAIL
 4.6" [117mm]
 2.4" [61mm]

Minimum length before reduction > 16"

INSTALLATION: FOLLOW DALDORADO SUPPLIED INSTALLATION INSTRUCTIONS AND WARNINGS. GRATE MUST BE INSTALLED WITHIN SUMP USING ONLY THE 316 SS 1/2"-20x1.25" MACHINE SCREWS (TESTED TO APSP/ANSI/ICC-16 2017) AS SUPPLIED BY DALDORADO. NO OTHERS ARE PERMITTED.

CERTIFIED MAXIMUM FLOW RATE:
 FLOOR-1734 GPM WALL-1552 GPM

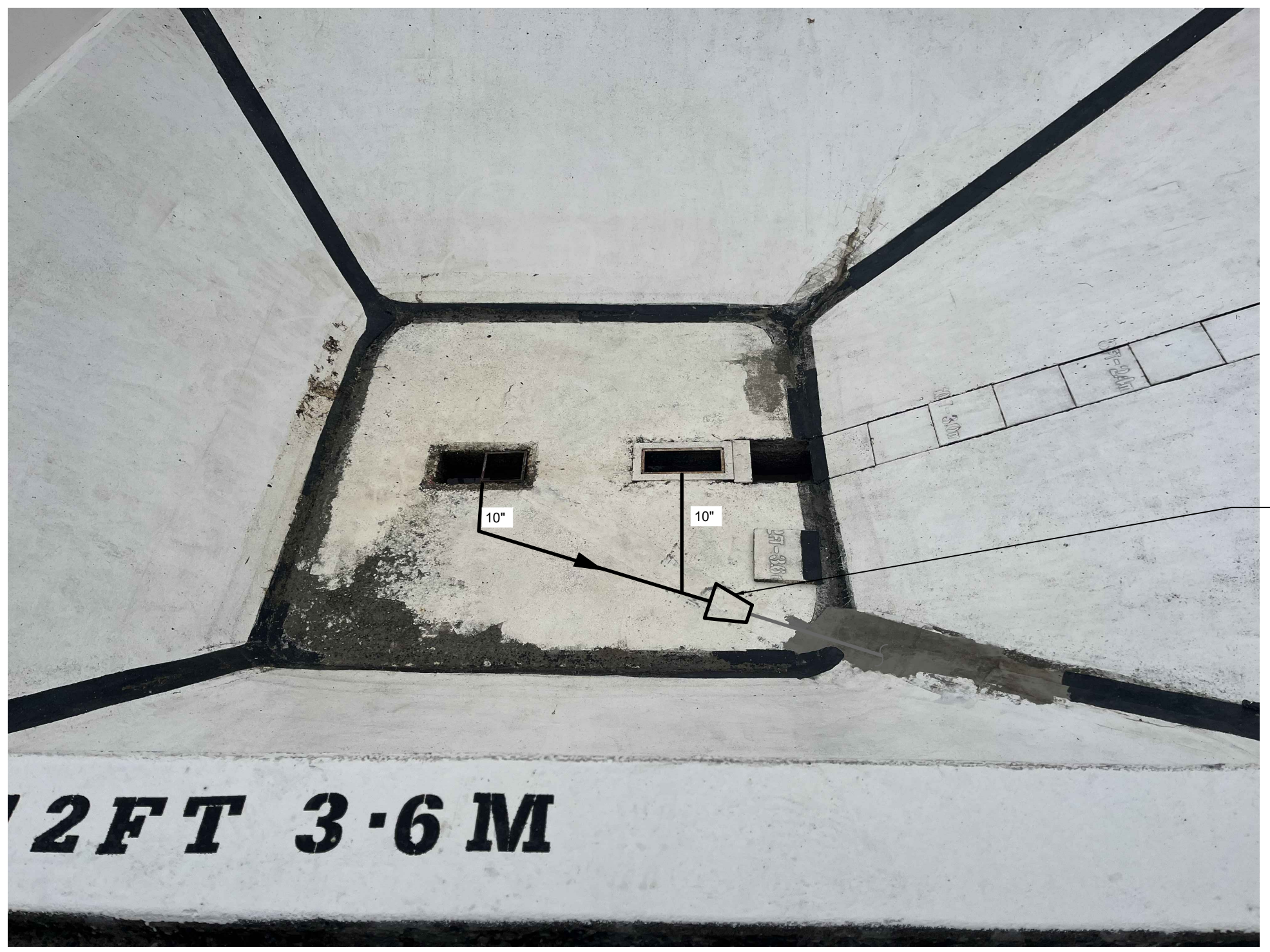
DalMAX-SG-242421 OPTIONS	
TOTAL GPM	1734 FLOOR, 1552 WALL
PORT CONFIGURATIONS	ANY PER NOTES ABOVE
MAX PORT SIZE, SIDE	10-IN
MIN PORT SIZE, BUSH DOWN	6-IN
GRATE COLOR	WHITE

Product: 24x24x21 Sump & Grate Package
Product #: DalMAX-SG-242421-BEAST
Material: PVC **Rev Date:** 11/07/2024
Color: WHITE **Rev By:** DALDORADO

DALDORADO
 4327 Arnold Ave, Naples, FL 34104
 Phone: 888.509.8128
 www.daldorado.com

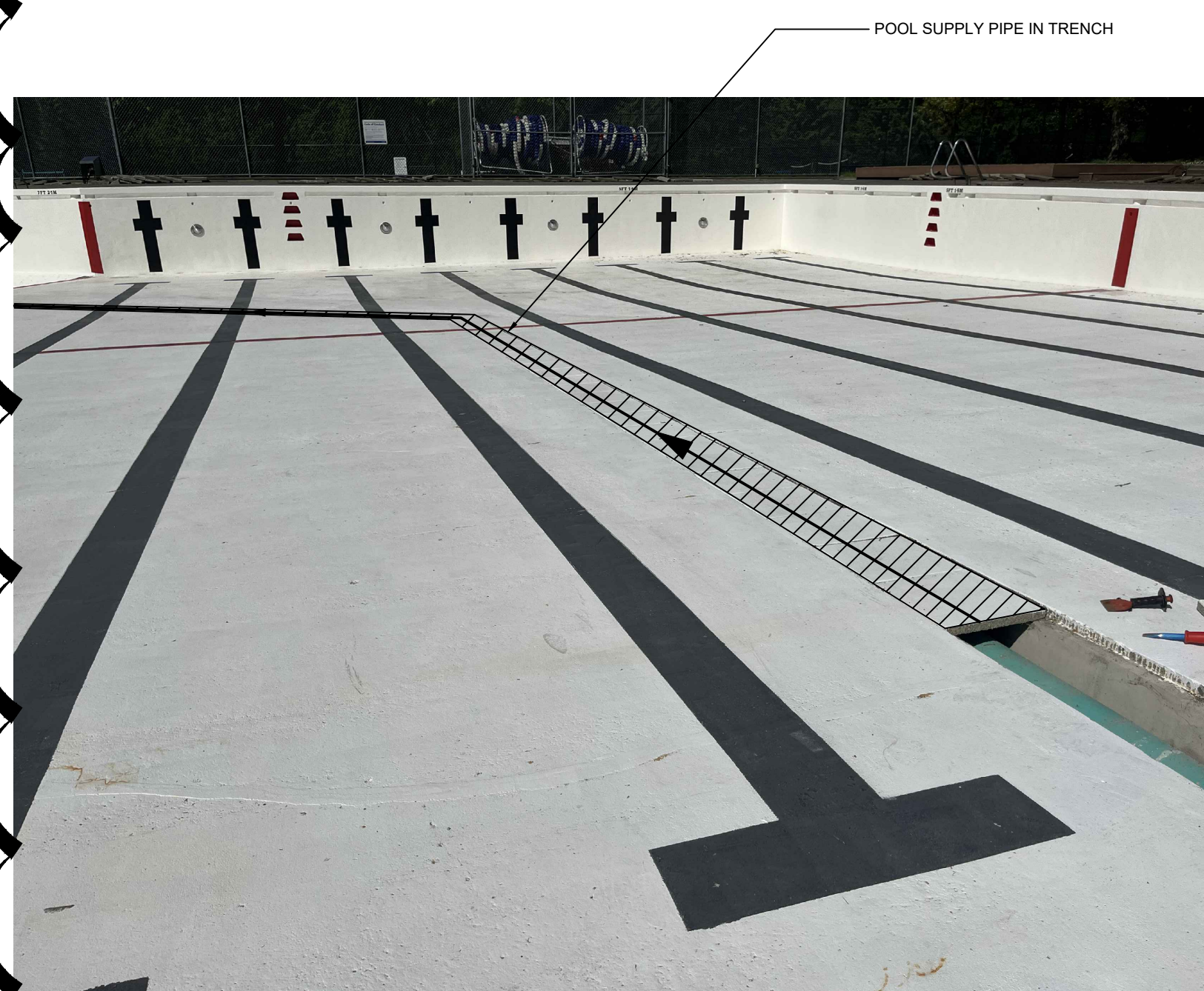
**SUMP LIFE: LIFE OF THE AQUATIC FACILITY
 GRATES AND FASTENERS: 25 YEAR SERVICE LIFE/10 YEAR WARRANTY**

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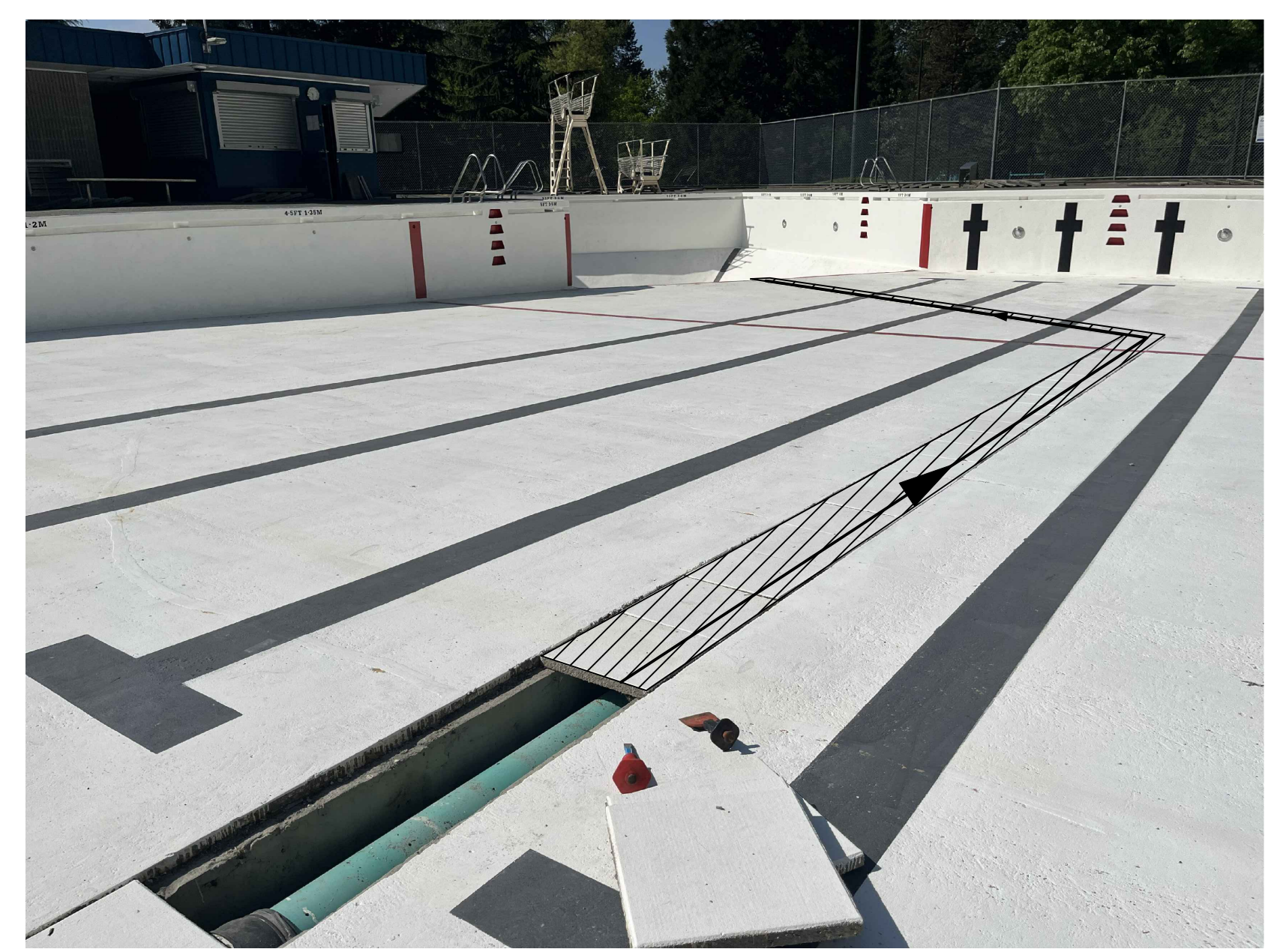


6 MAIN DRAIN SPECIFICATION
 SCALE: NTS

5 MAIN DRAINS - TOP VIEW
 SCALE: NTS



4 IMAGE B
 SCALE: NTS



3 IMAGE A
 SCALE: NTS



2 EXISTING SUPPLY PIPE
 SCALE: NTS



1 EXISTING MAIN DRAIN
 SCALE: NTS

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DETAILS

PROJECT NO. DRAWING NO.
025b-015-26 M102