

SYMBOL LEGEND

	DESIGN POINT
	DRAINAGE BASIN DESIGNATION
	2-YR WEIGHTED RUNOFF COEFFICIENT
	100-YR WEIGHTED RUNOFF COEFFICIENT
	DRAINAGE BASIN AREA (ACRES)

LEGEND

	DRAINAGE BASIN AREA BOUNDARY
	DIVERSION DITCH
	PROPOSED WILDLIFE FENCE
	RIGHT-OF-WAY
	EASEMENT
	PIPELINE
	FLOW DIRECTION
	EMERGENCY OVERFLOW PATH
	OUTFLOW DIRECTION
	GRASS BUFFER (RPA)

PLAN NOTES:

- CITY OF AURORA PLAN REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH CITY OF AURORA DESIGN CRITERIA AND THE CITY CODE. THE CITY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND ELEVATIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE. THE CITY OF AURORA, THROUGH THE APPROVAL OF THIS DOCUMENT, ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.
- APPROVAL OF THIS DOCUMENT BY THE CITY DOES NOT IMPLY APPROVAL FOR ANY OFFSITE WORK ON ADJACENT PRIVATE PROPERTY. IT IS THE OWNER'S RESPONSIBILITY TO COORDINATE WITH ADJACENT PROPERTY OWNERS AND OBTAIN ALL NECESSARY APPROVALS AND EASEMENTS FOR SUCH WORK. IF APPROVALS ARE NOT OBTAINED BY THE START OF CONSTRUCTION, REVISIONS TO CIVIL PLANS WILL BE REQUIRED.
- SEE THE STANDARD NOTES AND DETAILS IN THE FIELD WIDE SWMP REPORT (EDN 22119652), APPROVED SEPTEMBER 28, 2022, FOR ALL STANDARD DETAILS & CITY OF AURORA RULES AND REGULATIONS REGARDING STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES, NOTES AND LEGENDS OF BMP NAMES AND SYMBOLS.
- ALL PRIVATE DIVERSION DITCHES/SWALES ARE ANTICIPATED TO BE UNLINED.
- CRESTONE PEAK RESOURCES OPERATING LLC WILL ENSURE THAT THE PROVISIONS OF CRS 37-92-602, AS AMENDED BY SENATE BILL 15-212, REGARDING NOTIFICATION OF DOWNSTREAM WATER RIGHTS HOLDERS ARE UPHOLD.
- PROJECT AREA IS FOUND ON FIRM PANELS 08005C0066L DATED 2/17/2017 AND 08005C0067L DATED 9/28/2018, AND IS LOCATED IN FLOOD ZONE X.
- DESIGN MAJOR STORM: 100-YR STORM; DESIGN MINOR STORM: 2-YR STORM.
- ALL STORM INFRASTRUCTURE IS SIZED FOR THE 100-YR EVENT AND WILL BE PRIVATELY MAINTAINED BY CRESTONE PEAK RESOURCES OPERATING LLC.
- REFERENCE SECTION B OF THE DRAINAGE REPORT FOR A DISCUSSION OF THE SITE IN RELATION TO THE NEAREST FLOODPLAIN.
- THE PRIVATE SWALES SHALL BE MAINTAINED BY CRESTONE PEAK RESOURCES OPERATING LLC, AND SLOPES LESS THAN 2% PERMITTED, PROVIDED A MINIMUM 0.5% SLOPE PROVIDED IN ALL SWALES, AND UNDERDRAINS ARE PROVIDED IN THE SWALES WITH LESS THAN 2% SLOPE. OTHERWISE, REVISIONS SHALL BE SUBMITTED FOR SWALECHANNEL SECTIONS THAT MEET ALL COA CRITERIA FOR PERMANENT INFRASTRUCTURE. IN ADDITION, THE CITY RESERVES THE RIGHT AT ANY POINT TO REQUIRE THE CONSTRUCTION OF THE REMEDIAL MEASURES SHOULD THERE BE ANY ISSUES WITH REDUCED CAPACITY, SEDIMENTATION, EROSION, PONDING, FLOODING OR OTHER ITEMS IDENTIFIED BY THE CITY ENGINEER.
- NO COITCO SHALL BE ISSUED UNTIL THERE IS AN APPROVED POND CERTIFICATION AND INITIAL ACCEPTANCE FOR ANY NEEDED CONVEYANCE.
- ONE FOOT OF FREEBOARD WILL BE PROVIDED AT A MINIMUM FROM EACH EMERGENCY OVERFLOW SCENARIO IDENTIFIED FROM THE 100 YEAR EMERGENCY OVERFLOW WATER SURFACE ELEVATION AND THE FINISHED FLOOR ELEVATION/TOP OF FOUNDATION OF ANY NEARBY STRUCTURE.
- EMERGENCY INGRESS AND EGRESS - RIGHT-OF-WAY FOR INGRESS AND EGRESS FOR SERVICE AND EMERGENCY VEHICLES AND PERSONNEL IS GRANTED OVER, ACROSS, ON AND THROUGH ANY AND ALL PRIVATE ROADS AND WAYS, NOW OR HEREAFTER ESTABLISHED ON THE ASPEN 3-65 15-14 SOUTH OIL & GAS WELL SITE.
- CRESTONE PEAK RESOURCES OPERATING LLC SHALL BE RESPONSIBLE TO FIX EROSION DOWNSTREAM OF SWALE RIP-RAP OUTLETS CAUSED BY THE DRAINAGE ON THE SITE.

BASIN SUMMARY TABLE

BASIN	BASIN AREA (Ac)	IMPERV. (%)	2-YR (C)	100-YR (C)	2-YR PEAK FLOW (cfs)	100-YR PEAK FLOW (cfs)
A'	2.40	41.8	0.31	0.65	1.03	6.40
B'	5.05	46.0	0.35	0.67	2.60	14.88
C'	1.08	20.0	0.14	0.57	0.21	2.61
D'	0.93	100.0	0.83	0.89	2.05	6.53
OS-1'	3.06	27.0	0.19	0.59	0.64	5.86
OS-2'	2.94	5.0	0.03	0.50	0.10	5.33
OS-3'	12.82	5.3	0.03	0.51	0.31	14.94
OS-4'	0.20	80.0	0.65	0.81	0.44	1.63

DESIGN POINT SUMMARY TABLE

DESIGN POINT	TRIBUTARY BASIN	INLET TYPE	2-YR PEAK FLOW (cfs)	100-YR PEAK FLOW (cfs)
1'	A'	CULVERT	1.03	6.40
2'	B'	BASIN	2.60	14.88
3'	C'	SWALE	0.21	2.61
4'	A*B*C*D'	OUTLET STRUCTURE	4.21	23.49
5'	A*B*C*D'	EMERG. SPILLWAY	4.21	23.49
6'	A*B*C*D'	TOTAL OUTFALL	4.21	10.10*
7'	OS1' + OS2'	CULVERT	0.68	10.20
8'	OS2'	SWALE	0.10	5.33
9'	OS3'	SWALE	0.31	14.94
10'	OS4'	RPA	0.44	1.63

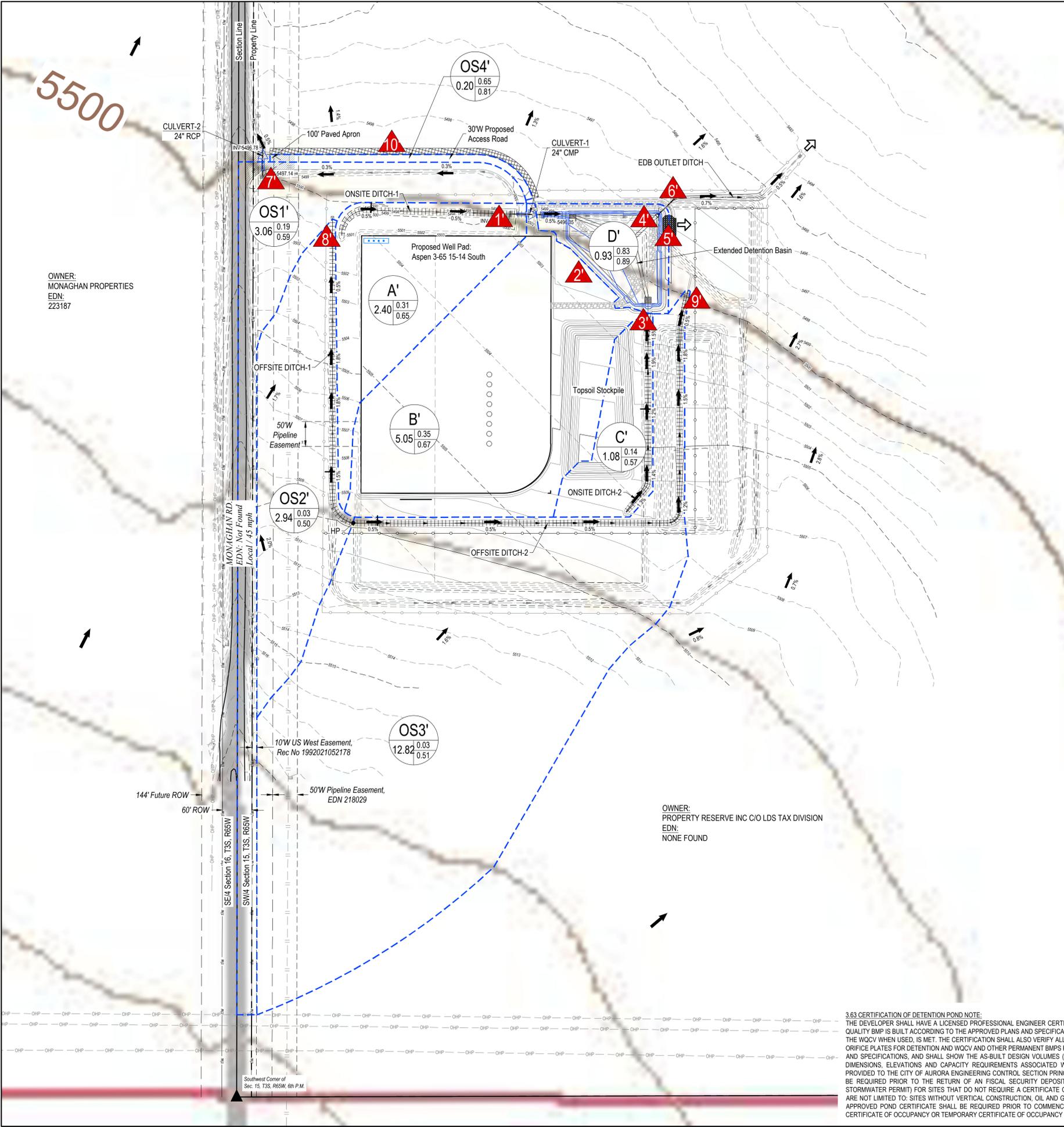
CONVEYANCE HYDRAULIC TABLE

CONVEYANCE	Q100 DESIGN FLOW (cfs)	FLOW DEPTH AT DESIGN FLOW (ft)	AVAILABLE FREEBOARD (ft)
ONSITE DITCH 1 (PROD PHASE)	6.40	0.65	1.35
ONSITE DITCH 2 (PROD PHASE)	2.61	0.34	1.66
OFFSITE DITCH 1 (PROD PHASE)	5.33	0.46	1.54
OFFSITE DITCH 2 (PROD PHASE)	14.94	0.96	1.04

*90% OF 100-YR PRE-DEVELOPMENT UNIT PEAK FLOW

SURVEY BENCHMARK

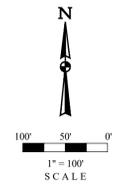
COA ID: 386009SE003
DESCRIPTION: SET 3" DIAM. BRASS CAP (STAMPED COA BM, AB-120A, 25-N101A, 1981) ATOP 30" LONG STEEL PIPE IN CONCRETE, AT NW COR. OF E. 56TH AVE. AND MONAGHAN ROAD, MON. IS 11.5' +/- NORTH AND 105.5' +/- WEST OF SEC. COR. 9.10.16.15, T3S, R65W. BM IS 37' +/- N. OF N. EDGE OIL E. 56TH AVE. AKA 25-N101A
LATITUDE: 39° 47' 53.31" N
LONGITUDE: 104° 39' 34.51" W (NAD 83)
ELEV.: 5466.23' (NAVD 88)



3.63 CERTIFICATION OF DETENTION POND NOTE:
THE DEVELOPER SHALL HAVE A LICENSED PROFESSIONAL ENGINEER CERTIFY EACH STORMWATER DETENTION POND AND/OR WATER QUALITY BMP IS BUILT ACCORDING TO THE APPROVED PLANS AND SPECIFICATIONS AND THE REQUIRED DETENTION VOLUME, INCLUDING THE WQCV WHEN USED, IS MET. THE CERTIFICATION SHALL ALSO VERIFY ALL PERTINENT DIMENSIONS, ELEVATIONS, REQUIRED OUTLET ORIFICE PLATES FOR DETENTION AND WQCV AND OTHER PERMANENT BMPS REQUIREMENTS ARE INSTALLED PER THE APPROVED PLANS AND SPECIFICATIONS, AND SHALL SHOW THE AS-BUILT DESIGN VOLUMES (WQCV, 10-YEAR, 100-YEAR, EURV) AND OTHER PERTINENT DIMENSIONS, ELEVATIONS AND CAPACITY REQUIREMENTS ASSOCIATED WITH THE WQ BMP USED. THE CERTIFICATION SHALL BE PROVIDED TO THE CITY OF AURORA ENGINEERING CONTROL SECTION PRINCIPAL ENGINEER. AN APPROVED POND CERTIFICATE SHALL BE REQUIRED PRIOR TO THE RETURN OF AN FISCAL SECURITY DEPOSIT (AS WELL AS SATISFYING OTHER CONDITIONS OF THE STORMWATER PERMIT) FOR SITES THAT DO NOT REQUIRE A CERTIFICATE OF OCCUPANCY. EXAMPLES OF THESE SITES INCLUDE BUT ARE NOT LIMITED TO: SITES WITHOUT VERTICAL CONSTRUCTION, OIL AND GAS WELL PADS, OUTDOOR STORAGE, AND TOW YARDS. AN APPROVED POND CERTIFICATE SHALL BE REQUIRED PRIOR TO COMMENCEMENT OF BUSINESS OPERATIONS. IN NO CASE SHALL A CERTIFICATE OF OCCUPANCY OR TEMPORARY CERTIFICATE OF OCCUPANCY BE ISSUED WITHOUT AN APPROVED POND CERTIFICATE.

OWNER:
MONAGHAN PROPERTIES
EDN:
223187

OWNER:
PROPERTY RESERVE INC C/O LDS TAX DIVISION
EDN:
NONE FOUND



REV	DATE	BY	REVISIONS

RESPONSIBLE ENGINEER:

PRODUCTION OPERATIONS
OFF-SITE DRAINAGE PLAN
FINAL CONDITION

SCALE: AS NOTED
DRAWN BY: C.D.C.
DATE DRAWN: 06-21-2024
PROJ. NO. CR03-21-0010
UELS FILE NO.:

C - 7317
SHEET
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