

KEYED CONSTRUCTION NOTES

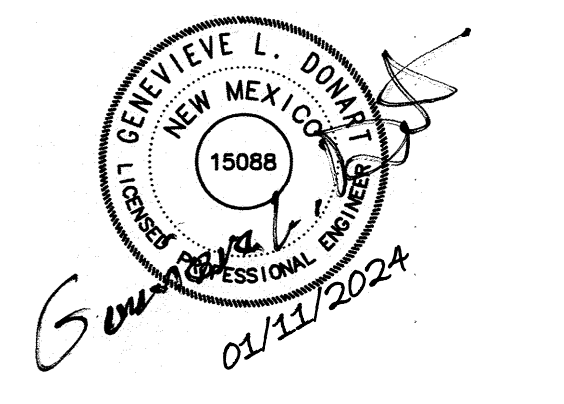
- SEE ADA COMPLIANCE NOTES THIS SHEET FOR TARGET SLOPES AND MAXIMUM SLOPES.
- ADA COMPLIANCE:
- SIDEWALK(S):
 LONGITUDINAL SLOPE SHALL NOT EXCEED 20:1 (5%).
 TARGET CROSS SLOPE = 1% TO 1.5%.
 CROSS SLOPE SHALL NOT EXCEED 2%.
- ACCESSIBLE RAMP(S):
 TARGET LONGITUDINAL SLOPE = 7%
 LONGITUDINAL SLOPE SHALL NOT EXCEED 12:1 (8.33%).
 TARGET CROSS SLOPE = 1% TO 1.5%.
 CROSS SLOPE SHALL NOT EXCEED 2%.
- ACCESSIBLE PARKING:
 TARGET SLOPE = 1% TO 1.5%.
 SLOPE SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION
- CONSTRUCT PAVING AT ELEVATIONS SHOWN.
 - PROVIDE SMOOTH TRANSITION TO EXISTING PAVEMENT.
 - TOP OF ASPHALT TO BE FLUSH WITH TOP OF CONCRETE WALK THIS AREA.
 - CONSTRUCT ADA COMPLIANT PARKING SPACES AND ACCESS AISLES AT ELEVATIONS SHOWN.
 - CONSTRUCT ADA COMPLIANT CURB RAMP AT ELEVATIONS SHOWN.
 - CONSTRUCT ADA COMPLIANT PEDESTRIAN ACCESS WALK AT ELEVATIONS SHOWN.
 - 6" HIGH CURB. TYPICAL NOTE: TO ENSURE READABILITY, NOT ALL CURBS ARE LABELED WITH BOTH FLOWLINE AND TOP OF CURB ELEVATION. ALL SPOT ELEVATIONS SHOWN WITHIN GUTTER ARE FLOWLINE ELEVATION. ADD CURB HEIGHT FOR ADJACENT TOP OF CURB ELEVATION.
 - HIGH POINT / GRADE BREAK LOCATION.
 - CONCENTRATED ROOF DISCHARGE TO BE PIPED DIRECTLY TO 4" PVC STORM DRAIN. PVC DRAIN TO DISCHARGE AT BASE OF RETAINING WALL TO A PRECAST SPLASHPAD.
 - NOT USED
 - PROVIDE 12" WIDE OPENING IN CURB TO PASS FLOW. SLOPE GUTTER AT 2% MAX. IN DIRECTION OF FLOW (EACH CURB OPENING LOCATION).
 - PROVIDE 24" WIDE OPENING IN CURB TO PASS FLOW. SLOPE GUTTER AT 2% MAX. IN DIRECTION OF FLOW (EACH CURB OPENING LOCATION).
 - CONSTRUCT 18" DEEP STORMWATER QUALITY RETENTION POND (SWOR) AT ELEVATIONS SHOWN. ALL STORMWATER QUALITY PONDING VOLUMES WILL BE VERIFIED AS PART OF AS-BUILT CERTIFICATION. PONDS WHICH DO NOT PROVIDE THE REQUIRED VOLUME WILL BE CORRECTED AT CONTRACTOR'S EXPENSE. NO WATER HARVESTING SHALL OCCUR WITHIN 10' OF ANY BUILDING.
 - CONSTRUCT GRADE WITHIN LANDSCAPE MEDIAN AT LEAST 6" BELOW CURB FLOWLINE FOR STORMWATER QUALITY RETENTION POND.
 - GRADE SWALE WITHIN ASPHALT PAVEMENT TO FLOWLINE ELEVATIONS SHOWN. OWNERS OPTION: CONSTRUCT 2" WIDE CONCRETE ALLEY GUTTER TO DEFINE / PROTECT SWALE FLOWLINE.
 - CONCRETE DUMPSTER PAD SLOPED TO 1.5% TYP., 2.0% MAX.
 - INSTALL TRENCH DRAIN (ACO K100S KLASSIKDRAIN AND CLASS E GRATE) WITH BUILT-IN SLOPE.
 - INSTALL TWO 6" DIA. PVC PIPES UNDER WALK. SLOPE @ 1.5%.
 - INSTALL 4" WIDE ROCK-LINED SWALE PER DETAIL ON THIS SHEET. EROSION PROTECTION MUST BE PLACED TO PERMIT STORMWATER TO PASS SMOOTHLY. HAND PLACE AT CURB OPENINGS AND SWALES TO ENSURE RUNOFF CAN BE CAPTURED AND CONVEYED PROPERLY.
 - INSTALL 2" WIDE ROCK-LINED SWALE PER DETAIL ON THIS SHEET. EROSION PROTECTION MUST BE PLACED TO PERMIT STORMWATER TO PASS SMOOTHLY. HAND PLACE AT CURB OPENINGS AND SWALES TO ENSURE RUNOFF CAN BE CAPTURED AND CONVEYED PROPERLY.
 - INSTALL 1" WIDE X 8" DEEP ROCK EDGE PROTECTION THIS AREA. EROSION PROTECTION MUST BE PLACED TO PERMIT STORMWATER TO PASS SMOOTHLY. HAND PLACE AT CURB OPENINGS AND SWALES TO ENSURE RUNOFF CAN BE CAPTURED AND CONVEYED PROPERLY.
 - CONSTRUCT CONCRETE STAIRS / STEPS TO ACHIEVE REQUIRED GRADE DIFFERENCE SHOWN. SEE ARCHITECTURAL FOR DETAILS.
 - CONSTRUCT SITE RETAINING WALL(S) TO ACHIEVE GRADE DIFFERENCE SHOWN. RETAINING HEIGHT VARIES. WALL DESIGN TO BE PROVIDED BY WALL CONTRACTOR OR STRUCTURAL ENGINEER TO INCLUDE TOTAL HEIGHT, FOOTING, GUARDRAIL, REINFORCING, WEEPHOLES, ETC.
 - RAISE EXISTING POND OUTLET BY 0.5' PER GRADES SHOWN.
 - 6" PVC STORM DRAIN @2% MINIMUM SLOPE AWAY FROM ROOF DRAIN OUTLET CONNECTIONS. PROVIDE ADAPTERS FOR THE CONNECTIONS AS NEEDED. DRAIN TOWARDS UNDERGROUND CISTERN.
 - PROVIDE 6" STORM DRAIN CONNECTION BETWEEN THE CISTERNS FOR EQUALIZATION.
 - INSTALL 2500 GALLON UNDERGROUND STORMWATER CISTERN BURIED AT LEAST 1' BELOW GRADE WITH ACCESS RISER AT SURFACE ELEVATION TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. THIS WILL CAPTURE GRAY WATER TO BE USED FOR IRRIGATION. LANDSCAPE DESIGNER TO PROVIDE DESIGN OF DISCHARGE PUMP, IRRIGATION PIPING, WATER SUPPLY DURING DRY PERIODS, AND ANY FLOATS NEEDED.
 - 6" PVC EMERGENCY OVERFLOW PIPE AT THE TOP OF THE CISTERN IS TO BE INSTALLED. DAYLIGHT PIPE TO A SURFACE LOCATION THAT SLOPES AWAY FROM THE BUILDING.

CONSULTANTS

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Architect: _____ Engineer: _____



SANTA FE COUNTY - ABEDON LOPEZ SENIOR CENTER

155A CAMINO DE QUINTANA
 SANTA CRUZ, NM 87567

No	Date	Description
Revision Schedule		
ISSUE:		100% CONSTRUCTION DOCUMENTS
PROJECT NUMBER:		2585
FILE:		UTILITY PLAN
DRAWN BY:		IA
CHECKED BY:		GLD
DATE:		SEPTEMBER 08, 2023

SHEET TITLE
GRADING & DRAINAGE PLAN

ON LOPEZ COMMUNITY CENTER :

1-HOUR CALCULATIONS			
AREA OF SITE:	90221.06	SF	= 2.07 ACRE
HISTORIC FLOWS:			
	Treatment SF	%	
Area A	18044	20%	10%
Area B	44208	49%	31%
Area C	18044	20%	30%
Area D	9924	11%	29%
Total Area	90221	100%	100%
DEVELOPED FLOWS:			
	Treatment SF	%	Precip. Zone
Area A	9022	10%	E _A = 0.67
Area B	27969	31%	E _B = 0.86
Area C	27066	30%	E _C = 1.09
Area D	26164	29%	E _D = 2.58
Total Area	90221	100%	
EXCESS PRECIP:			
			Zone 3
Area A			E _A = 0.67
Area B			E _B = 0.86
Area C			E _C = 1.09
Area D			E _D = 2.58
Total Area			E _D = 2.58

On-Site Weighted Excess Precipitation (100-Year, 6-Hour Storm)
 Weighted E = $\frac{E_A A_A + E_B A_B + E_C A_C + E_D A_D}{A_A + A_B + A_C + A_D}$

Historic E = 1.06 in. Developed E = 1.41 in.

On-Site Volume of Runoff: V₃₆₀ = E^{*}A / 12
 Historic V₃₆₀ = 7948 CF. Developed V₃₆₀ = 10592 CF

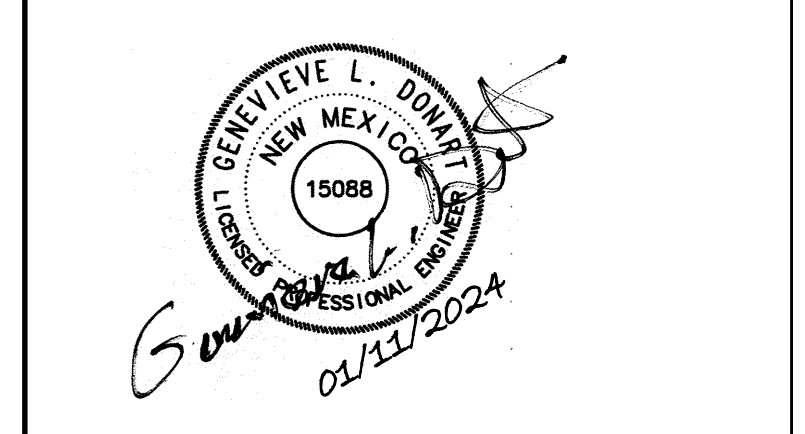
On-Site Peak Discharge Rate: Q_p = Q_{sa}A₁ + Q_{sb}A₂ + Q_{sc}A₃ + Q_{sd}A₄ / 43.560
 For Precipitation Zone 3
 Q_{sa} = 1.84 Q_{sc} = 3.17
 Q_{sb} = 2.49 Q_{sd} = 4.49
 Historic Q_p = 5.6 CFS. Developed Q_p = 6.6 CFS

ADDITIONAL VOLUME GENERATED = 10592 CF - 7948 CF = 2644 CF ADDITIONAL VOLUME

LEGEND

— 4965 —	EXISTING CONTOUR
G=4965.21	EXISTING SPOT ELEVATION
— 65 —	PROPOSED 1.0' CONTOUR
- - - 65.5 - - -	PROPOSED 0.5' CONTOUR
◆ 65.4	PROPOSED SPOT ELEVATION
→	FLOW DIRECTION
FF = 4966.00	FINISH FLOOR ELEVATION
— ○ —	EXISTING STORM DRAIN / MANHOLE
— ○ —	PROPOSED STORM DRAIN / INLET

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**SANTA FE COUNTY -
ABEDON LOPEZ
SENIOR CENTER**

155A CAMINO DE QUINTANA
SANTA CRUZ, NM 87567

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SHEET TITLE
UTILITY PLAN

CU-101

GENERAL NOTES

- A. EXISTING UTILITY LINES ARE SHOWN IN AN APPROXIMATE MANNER ONLY AND MAY BE INCOMPLETE OR OBSOLETE. SUCH LINES MAY OR MAY NOT EXIST WHERE SHOWN OR NOT SHOWN. ALL UTILITIES SHOULD BE FIELD VERIFIED AND LOCATED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES.
- B. CONTRACTOR SHALL NOT USE VIBRATORY COMPACTION EQUIPMENT OR HEAVY VEHICLES OVER EXISTING UTILITIES.
- C. SITE STORM DRAIN, ELECTRIC LINES & TRANSFORMERS AND GAS LINES ARE SHOWN FOR GENERAL INFORMATION ONLY TO PROVIDE AN OVERVIEW OF SITE UTILITIES AND POTENTIAL CONFLICTS. SEE ELECTRICAL AND MECHANICAL SITE PLANS FOR LOCATIONS AND GAS LINE SIZES. SEE CG-101 FOR STORM DRAIN DESIGN.
- D. ALL WATER FITTINGS SHALL HAVE JOINT RESTRAINTS (LT). SEE RESTRAINED JOINT CRITERIA NOTES THIS SHEET. (LT) LENGTH SHOWN ON KEYED NOTES.
- E. ALL ABOVE GROUND UTILITY EQUIPMENT AND FITTINGS SHALL BE PAINTED IN COLORS TO MATCH BUILDING COLORS.
- F. CAP OR PLUG AND REMOVE EXISTING WATER AND SEWER SERVICES THAT WILL NOT BE USED FOR NEW BUILDING.

KEYED NOTES

WATER KEYED NOTES

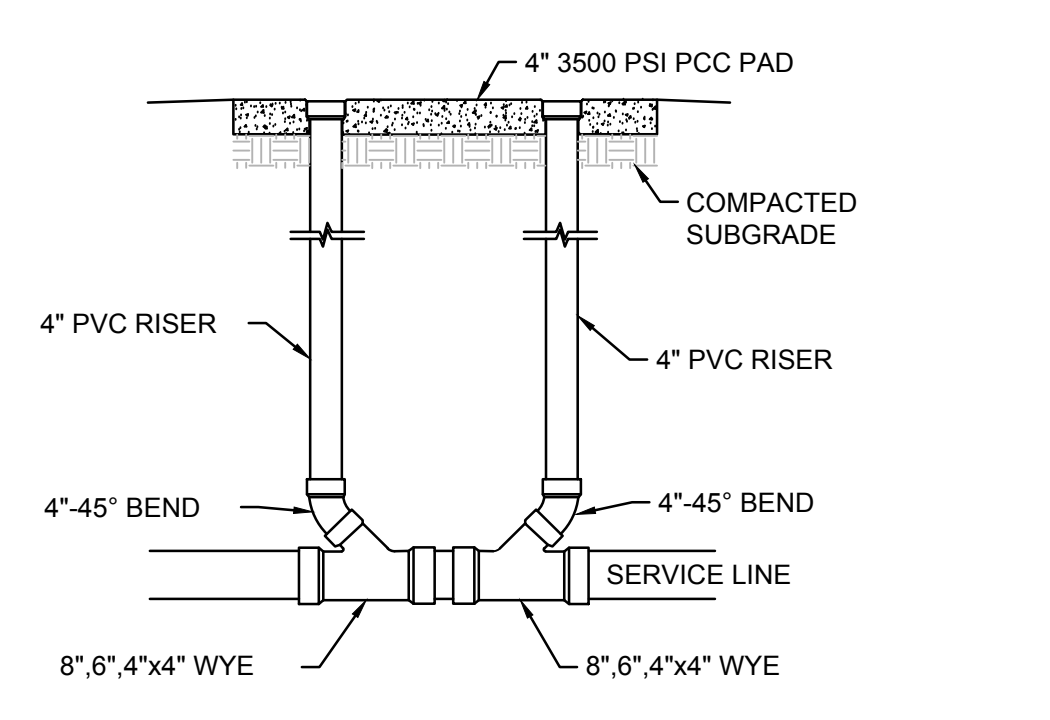
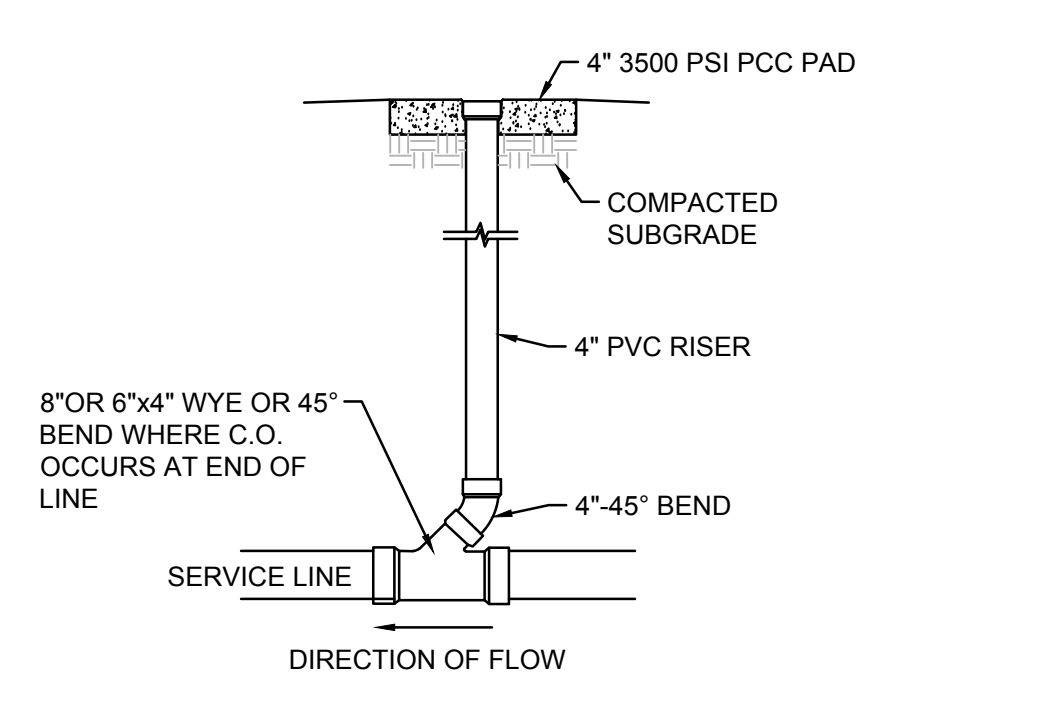
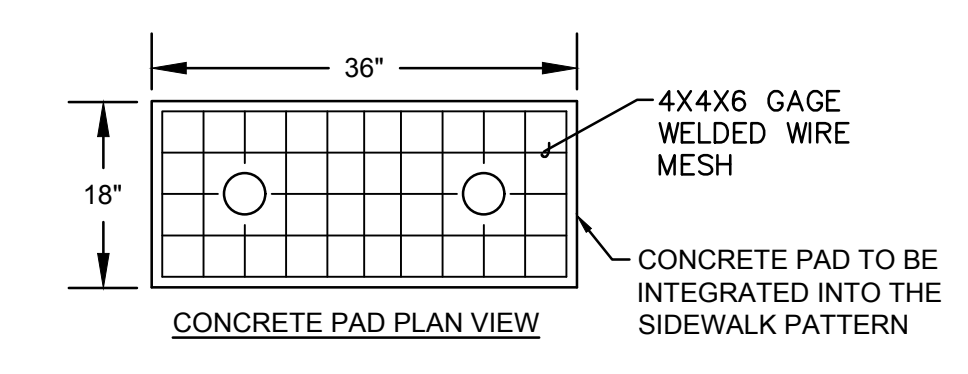
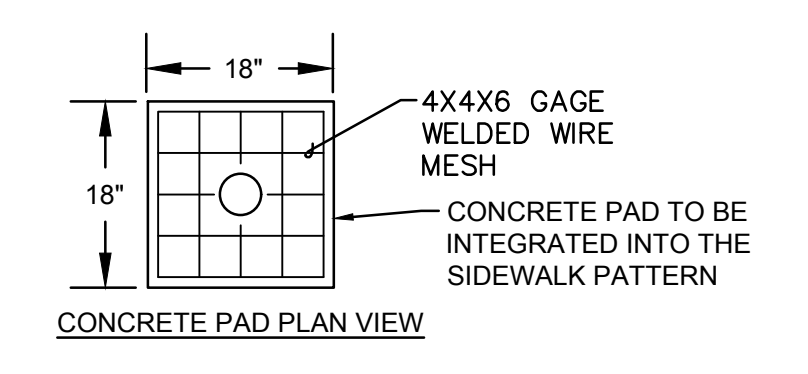
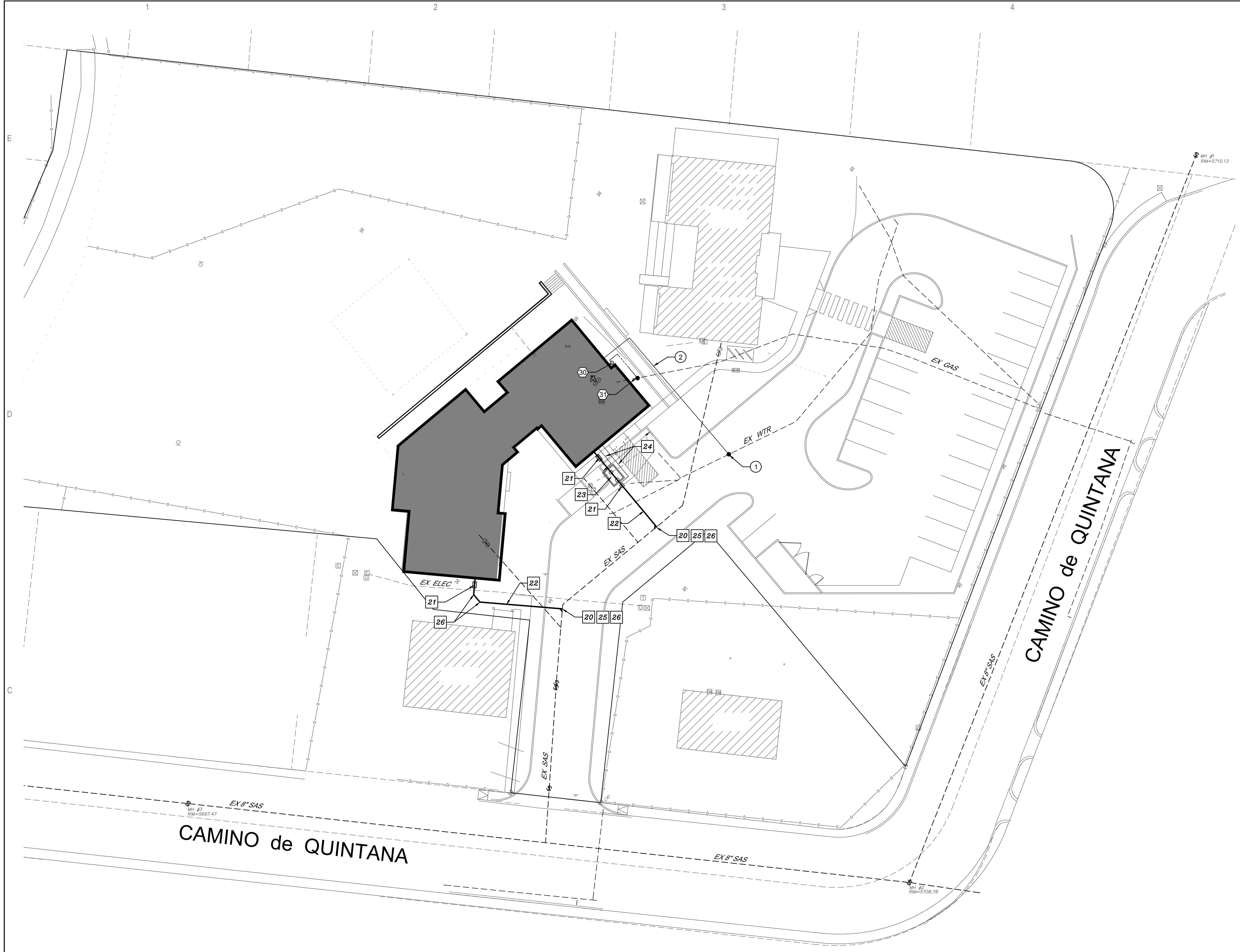
- 1. CONNECT NEW 7" WATER SERVICE TO EXISTING WATER LINE.
- 2. 7" WATER SERVICE LINE.

SEWER

- 20. CONNECT NEW SEWER SERVICE TO EXISTING 6" SANITARY SEWER LINE.
- 21. SANITARY SEWER DOUBLE OR SINGLE CLEANOUT.
- 22. 4" SANITARY SEWER LINE.
- 23. GREASE INTERCEPTOR SIZE TO BE DETERMINED BY PLUMBING ENGINEER.
- 24. 3" GREASE INTERCEPTOR VENT LINE TO BUILDING.
- 25. 6" X 4" WYE/TEE.
- 26. 4" - 45° BEND.

GAS KEYED NOTES

- 30. GAS METER
- 31. CONNECT NEW GAS LINE TO EXISTING GAS LINE.



SINGLE CLEANOUT

SCALE: N.T.S.

DOUBLE CLEANOUT

SCALE: N.T.S.

