Appendix D-1
Stormwater and Erosion Control Plan

SURVEY NOTES:

1. EXISTING TOPOGRAPHY OBTAINED FROM THE COORDINATES AND BEARINGS SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, (CCS83), ZONE 5, (EPOCH 2017.50); IN ACCORDANCE WITH THE CALIFORNIA PUBLIC RESOURCES CODE (PRC) §8801-8819. SAID COORDINATES AND BEARINGS ARE BASED LOCALLY UPON GLOBAL POSITIONING SYSTEM TIES TO THE FOLLOWING CONTINUOUS OPERATING REFERENCE STATIONS (CORS) AS PUBLISHED PER THE SCRIPPS ORBIT & PERMANENT ARRAY CENTER (SOPAC) AND/OR THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC). SURVEY PREPARED BY MICHAEL BAKER INTERNATIONAL NOVEMBER 2, 2023. HORIZONTAL DATUM SHOWN IS IN CALIFORNIA STATE PLANE COORDINATE SYSTEM, ZONE V, NORTH AMERICAN DATUM 1983 (NAD83). VERTICAL DATUM SHOWN IS IN NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).
2. EASEMENT LINES SHOWN ON THIS PLAN OBTAINED FROM THE COORDINATES AND BEARINGS SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, (CCS83), ZONE 5, (EPOCH 2017.50); IN ACCORDANCE WITH THE CALIFORNIA PUBLIC RESOURCES CODE (PRC) §8801-8819. SAID COORDINATES AND BEARINGS ARE BASED LOCALLY UPON GLOBAL POSITIONING SYSTEM TIES TO THE FOLLOWING CONTINUOUS OPERATING REFERENCE STATIONS (CORS) AS PUBLISHED PER THE SCRIPPS ORBIT & PERMANENT ARRAY CENTER (SOPAC) AND/OR THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC). SURVEY PREPARED BY MICHAEL BAKER INTERNATIONAL NOVEMBER 2, 2023.
3. UTILITY LINES OBTAINED FROM INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES. QUALITY LEVEL B DATA SHOULD BE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES DEFINED BY THE PROJECT AND REDUCED ONTO PLAN DOCUMENTS. SURVEY PREPARED BY MICHAEL BAKER INTERNATIONAL NOVEMBER 2, 2023. CONTRACTOR TO VERIFY ACCURACY OF UTILITY LOCATIONS IN WORKING AREAS PRIOR TO CONSTRUCTION.

GENERAL NOTES:

1. THE SUBJECT PROPERTY DOES NOT CONTAIN ANY ACTIVE OIL AND GAS WELLS BASED ON REVIEW OF AVAILABLE DATA.
2. ALL PUBLIC IMPROVEMENTS MUST BE INSTALLED IN ACCORDANCE WITH LOS ANGELES COUNTY STANDARDS.
3. THE OWNER/DEVELOPER IS REQUIRED TO PRESERVE ALL TREES EXCEPT THOSE WHICH MUST BE REMOVED IN ORDER TO HAVE A SUITABLE LOCATION FOR A DRIVEWAY OR OTHER IMPROVEMENTS, INCLUDING ROAD OR STREET IMPROVEMENTS OR SOLAR PANEL IMPROVEMENTS.

CONSTRUCTION NOTES:

1. AT ALL TIMES, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE INCLUDING MEANS & METHODS OF CONSTRUCTION SAFETY OF PERSONS & PROPERTY. THE ENGINEER'S PRESENCE OR REVIEW OF WORK AT THE JOB SITE IS FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT ONLY & IS NOT EVER TO BE CONSTRUED AS A REVIEW OF MEANS & METHODS OF CONSTRUCTION & SAFETY METHODS.
2. IF THE EXISTING FIELD CONDITIONS DO NOT PERMIT THE INSTALLATION OF THE WORK IN ACCORDANCE WITH THE DETAILS SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. THE CONTRACTOR MUST PROVIDE A SKETCH OF THE CONDITION WITH HIS PROPOSED MODIFICATION OF THE DETAILS GIVEN ON THE CONTRACT DOCUMENTS. THIS SKETCH MUST BE SUBMITTED TO & APPROVAL MUST BE GRANTED BY THE ENGINEER AND CONSTRUCTION SUPERINTENDENT PRIOR TO PERFORMING THE WORK.
3. THE CIVIL PLANS HAVE BEEN PREPARED BASED ON AVAILABLE KNOWLEDGE OF EXISTING CONDITIONS. IF DURING DEMOLITION, EXCAVATION, OR CONSTRUCTION, ACTUAL CONDITIONS ARE DISCOVERED TO DIFFER FROM THOSE INDICATED ON THE DOCUMENTS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
4. CONTRACTOR SHALL REPAIR OR REPLACE, IN-KIND, ANY DAMAGE TO OFF-SITE ITEMS THAT OCCURS AS A RESULT OF THEIR WORK.
5. ALL SIGNS, PAVEMENT MARKINGS (EXCLUDING PARKING SPACE MARKINGS), & OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE OHIO DOT STANDARDS UNLESS OTHERWISE NOTED.
6. CONTRACTOR SHALL SAW-CUT TO PROVIDE SMOOTH TRANSITIONS AT TIE-INS TO EXISTING EDGES OF PAVEMENT.
7. CONTRACTOR SHALL TAKE NECESSARY MEASURES TO SEPARATE WORK AREAS FROM PEDESTRIAN TRAFFIC & TO ENSURE SAFE PEDESTRIAN PASSAGE AT ALL TIMES.

GRADING NOTES:

1. THESE PLANS ARE INTENDED TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA) AND UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS). THE CONTRACTOR IS RESPONSIBLE TO MEET ALL ADA AND UFAS REQUIREMENTS AS STATED IN THE ADA AND ABA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES PUBLISHED IN THE FEDERAL REGISTER SEPTEMBER 15, 2010 OR AS LAST REVISED.
2. SOIL COMPACTION: CONTRACTOR TO COMPACT SOIL MATERIALS UNDER ACCESS ROADS, UNDER CONCRETE PADS, IN LAWN AREAS, AND IN UNPAVED AREAS IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT PRIOR TO INITIATION OF ANY EARTHWORK ACTIVITY.
3. CONTRACTOR TO GRADE AREAS ADJACENT TO FACILITIES SO THAT WATER DRAINS AWAY FROM STRUCTURES AND NO PONDING OCCURS.
4. SHORING, BRACING, AND PROTECTION OF EXISTING AND ADJACENT STRUCTURES DURING CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR TO PROTECT AND MAINTAIN THE INTEGRITY OF ADJACENT STRUCTURES, BUILDINGS, AND STREETS.

DRAINAGE NOTES:

1. LENGTHS OF PROPOSED STORM SEWER PIPES ARE TAKEN FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
2. WORK POINTS FOR STRUCTURES ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
3. SLOPES, DISTANCES, AND INVERT ELEVATIONS ARE GIVEN TO INTERSECTION OF FLOW LINES.

GEOTECHNICAL NOTES:

1. ALL FILLS SHALL BE COMPACTED TO PROVIDE STABILITY OF FILL MATERIAL AND TO PREVENT UNDESIRABLE SETTLEMENT OR SLIPPAGE. FILLS SHALL BE COMPACTED USING MODERN METHODS AND EQUIPMENT. FILLS SHALL BE CONSTRUCTED UNDER THE SUPERVISION OF A QUALIFIED GEOTECHNICAL ENGINEER WHO SHALL CERTIFY, IN WRITING TO MONTGOMERY COUNTY, AS TO THE ADEQUACY OF COMPACTION AND SHALL SUBMIT RESULTS OF THE COMPACTION TESTS TO THE COUNTY ENGINEER.
2. ANY PYRITIC MATERIALS ENCOUNTERED IN UTILITY CONSTRUCTION SHALL BE ADDRESSED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATION SUBJECT TO APPROVAL BY THE COUNTY ENGINEER WITH RESPECT TO STORMWATER CONSTRUCTION.
3. GEOTECHNICAL EXPLORATION PERFORMED BY GEOSYNTEC CONSULTANTS IN AUGUST 2021. REFER TO GEOTECHNICAL INVESTIGATION REPORT BY GEOSYNTEC CONSULTANTS IN AUGUST 2021

UTILITY NOTES:

1. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY.
2. SIZE, LOCATION, AND ELEVATIONS OF EXISTING STRUCTURES AND UTILITIES SHOWN ON THE PLANS ARE FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE TO VERIFY THE SIZE AND/OR LOCATION OF ALL EXISTING STRUCTURES AND UTILITIES.
3. CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING, OR CONNECTING TO SAID FACILITIES. CONTRACTOR SHALL RAISE OR LOWER TOPS OF EXISTING MANHOLES AS REQUIRED TO MATCH FINISHED GRADES.
4. TEST PITS SHALL BE DUG AT EXISTING AND PROPOSED UTILITY CROSSINGS AND CONNECTIONS TO VERIFY HORIZONTAL AND VERTICAL LOCATION OF THE EXISTING UTILITIES.
5. THE CONTRACTOR IS RESPONSIBLE FOR ALL TRENCHING, BEDDING, BACKFILL, AND PAVEMENT RESTORATION (AS REQUIRED).

UTILITY CONNECTION NOTES:

1. ELECTRIC
   - CONTRACTOR SHALL CONTACT THE POWER COMPANY A MINIMUM OF SIX (6) WEEKS PRIOR TO CONSTRUCTION TO NOTIFY THEM OF THE SCHEDULE.
   - ALL ELECTRIC WORK SHALL BE IN ACCORDANCE WITH THE POWER COMPANY'S STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL REFER TO PLANS PREPARED BY THE POWER COMPANY.
   - CONTRACTOR TO FURNISH AND INSTALL ALL TRENCHING, CONDUIT, AND PULL ROPE.

REGISTERED PROFESSIONAL ENGINEER
MAHER M. ZEIN
No. 73475
Exp: 12/31/25
CIVIL
STATE OF CALIFORNIA

ISSUED FOR PERMIT

REV	DATE	DRAWN	CHECKED	PRJ APV	SCG APV	ENG FILE NO	DESCRIPTION	WOA
D	05/07/24	CJ	MZ	KS	JY	E17031	ISSUED FOR PERMIT	92671.000
C	04/22/24	CJ	MZ	KS	JY	E17031	ISSUED FOR REVIEW	92671.000
B	04/05/24	CJ	MZ	KS	JY	E17031	ISSUED FOR REVIEW	92671.000

BY	DATE
DESIGNED: J. HEMME	04/22/24
DRAWN: C. JOHNSON	04/22/24
CHECKED: M. ZEIN	04/22/24
PROJ APV: K. SWANSON	05/07/24
SCG ENG APV: J. YUAN	05/07/24
ENG FILE NO: E17031	
WOA: 92671.000	

SoCalGas.

DWG CLASS: 50 DWG DIST: 107
SCALE: N.T.S.

HONOR RANCHO STORAGE FIELD
COMPRESSOR MODERNIZATION (HRCM)

GENERAL NOTES

28300 BRADY PARKWAY SANTA CLARITA

DRAWING NUMBER 34005-7101-D-CIV REV D

LEGEND:

- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING FEATURES
- PARCEL LINES
- LIMIT OF DISTURBANCE

REGISTERED PROFESSIONAL ENGINEER
MAHER M. ZEIN
No. 73475
Exp: 12/31/25
CIVIL
STATE OF CALIFORNIA

0 100' 200'
SCALE: 1" = 100'-0"

ISSUED FOR PERMIT

REV	DATE	DRAWN	CHECKED	PRJ APV	SCG APV	ENG FILE NO	DESCRIPTION	WOA
D	05/07/24	CJ	MZ	KS	JY	E17031	ISSUED FOR PERMIT	92671.000
C	04/22/24	CJ	MZ	KS	JY	E17031	ISSUED FOR CLIENT REVIEW	92671.000
B	04/05/24	CJ	MZ	KS	JY	E17031	ISSUED FOR REVIEW	92671.000

	BY	DATE
DESIGNED: J. HEMME		04/22/24
DRAWN: C. JOHNSON		04/22/24
CHECKED: M. ZEIN		04/22/24
PROJ APV: K. SWANSON		05/07/24
SCG ENG APV: J. YUAN		05/07/24
ENG FILE NO: E17031	DWG CLASS: 30	DWG DIST: 107
WOA: 92671.000	SCALE: 1" = 100'	

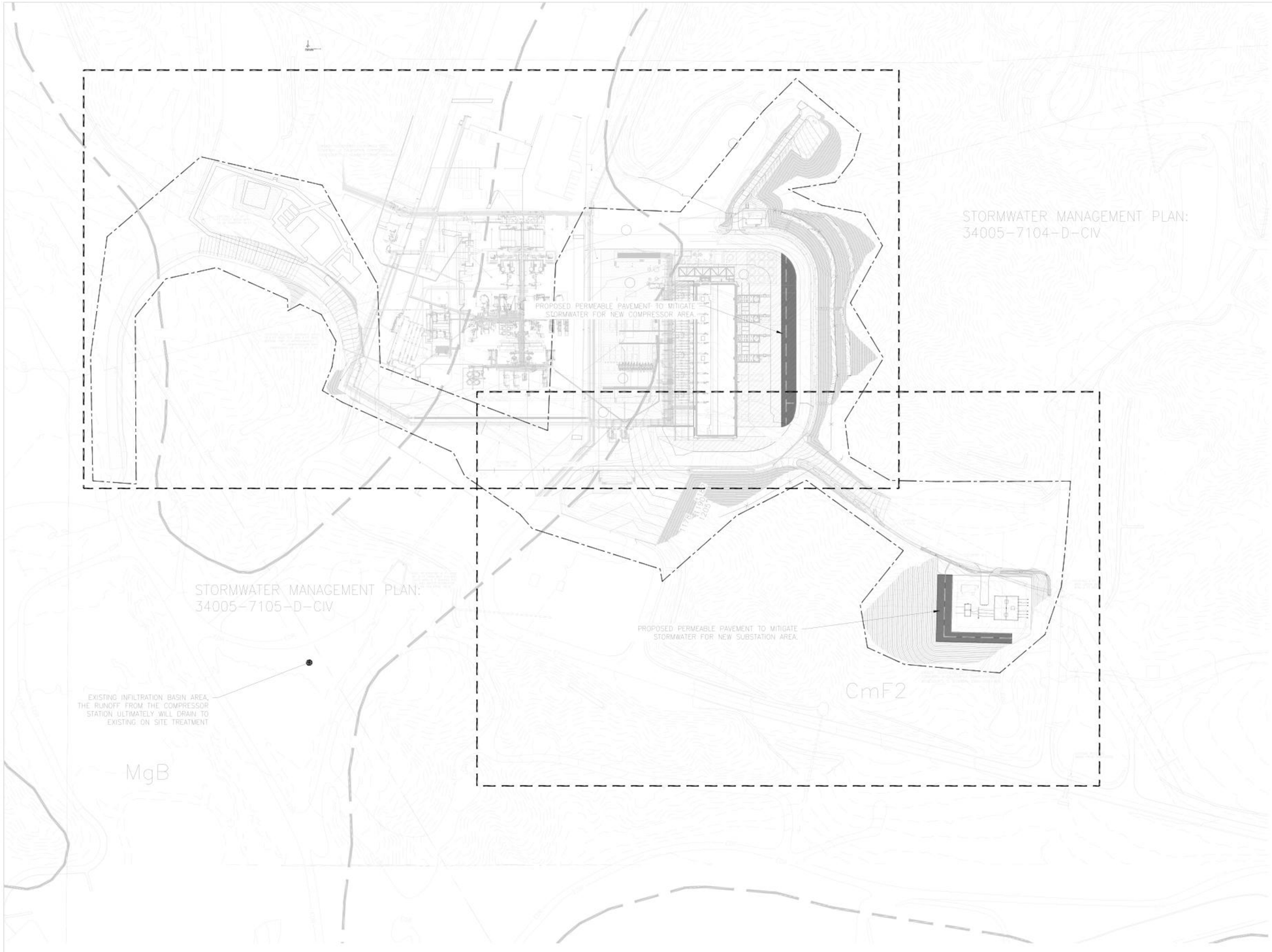
SoCalGas.

HONOR RANCHO STORAGE FIELD COMPRESSOR MODERNIZATION (HRCM) OVERALL EXISTING CONDITIONS PLAN

28300 BRADY PARKWAY SANTA CLARITA

DRAWING NUMBER 34005-7102-D-CIV REV D

Q:\Charleston WV\Team\DMM\AutoCAD\Clients E-H\072910 - Gulf Interstate Engineering (GE)\CAD\34005-7102-D-CIV.dwg, 5/7/2024 6:54 PM, Carlie Johnson



PLANT N

POST CONSTRUCTION STORMWATER MANAGEMENT PLAN LEGEND

- CONCRETE CHANNEL
- ASPHALT PAVEMENT
- SOIL BOUNDARY
- PROPOSED PERMEABLE PAVEMENT AREA
- PARCEL BOUNDARY
- LIMIT OF DISTURBANCE

SOIL TYPES FROM USDA SOIL SURVEY

- CmF2 (C)
- MgB (B)

LIMIT OF DISTURBANCE AREA: 18.7 ACRES

OWNER: SOUTHERN CALIFORNIA GAS COMPANY, A CALIFORNIA CORPORATION
PROPERTY: THAT PORTION OF THE RANCHO SAN FRANCISCO, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 1 OF PATENTS, PAGES 521 AND 522, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, AND MORE PARTICULARLY DESCRIBED IN THAT CERTAIN CORPORATION GRANT DEED RECORDED SEPTEMBER 30, 1975 IN BOOK D6814, PAGES 161 THROUGH 167 INCLUSIVE, OFFICIAL RECORDS OR THE SHORT CUT VERSION O.R., IN SAID OFFICE OF THE COUNTY RECORDER

ISSUED FOR PERMIT

REGISTERED PROFESSIONAL ENGINEER
MAHER M. ZEIN
No. 73475
Exp: 12/31/25
CIVIL
STATE OF CALIFORNIA

0 100' 200'
SCALE: 1" = 100'-0"

REV	DATE	DRAWN	CHECKED	PRJ APV	SCE APV	ENG. FILE NO.	DESCRIPTION	WOA	BY	DATE
									DESIGNED: J. HEMME	04/22/24
									DRAWN: C. JOHNSON	04/22/24
									CHECKED: M. ZEIN	04/22/24
D.	05/07/24	CJ	MZ	KS	JY	E17031	ISSUED FOR PERMIT	92671.000	PROJ APV: K. SWANSON	05/07/24
C.	04/22/24	CJ	MZ	KS	JY	E17031	ISSUED FOR CLIENT REVIEW	92671.000	SCE ENG APV: J. YUAN	05/07/24
B.	04/05/24	CJ	MZ	KS	JY	E17031	ISSUED FOR REVIEW	92671.000	ENG FILE NO: E17031	
									WOA: 92671.000	

SoCalGas.

DWG CLASS: 50 | DWG DIST: 107
SCALE: 1" = 100'

HONOR RANCHO STORAGE FIELD COMPRESSOR MODERNIZATION (HRCM) OVERALL STORMWATER MANAGEMENT PLAN

28300 BRADY PARKWAY SANTA CLARITA

DRAWING NUMBER 34005-7103-D-CIV REV D

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PLAN N

PROPOSED TYPE A CONCRETE STORMWATER CHANNEL WITH 2' BOTTOM WIDTH AND 2:1 SIDE SLOPES

PROPOSED TYPE C CONCRETE STORMWATER CHANNEL WITH 2:1 SIDE SLOPES

PROPOSED TYPE C CONCRETE STORMWATER CHANNEL WITH 3:1 SIDE SLOPES

PROPOSED TYPE A CONCRETE STORMWATER CHANNEL WITH 3' BOTTOM WIDTH, 7:1 DOWNHILL SIDE SLOPES, AND 5:1 UPHILL SIDE SLOPES

PROPOSED 12" CLASS III RCP CULVERT

CULVERT 1

PROPOSED TYPE B CONCRETE STORMWATER CHANNEL

CULVERT 2

PROPOSED 18" CLASS III RCP CULVERT

HIGH POINT

PROPOSED TYPE A CONCRETE STORMWATER CHANNEL WITH 3' BOTTOM WIDTH, 7:1 DOWNHILL SIDE SLOPES, AND 5:1 UPHILL SIDE SLOPES

PROPOSED TYPE C CONCRETE STORMWATER CHANNEL WITH 3:1 SIDE SLOPES

PROPOSED TYPE B CONCRETE STORMWATER CHANNEL

PROPOSED INLETS AND UNDERGROUND STORM PIPING TO CONVEY RUNOFF TO EXISTING BOX CULVERT.

PROPOSED PERMEABLE PAVEMENT WITH UNDERDRAIN. PROPOSED PAVEMENT TO HAVE A DEPTH OF 2FT. SEE STORMWATER DETAIL SHEET FOR ADDITIONAL INFORMATION.

PROPOSED TYPE C CONCRETE STORMWATER CHANNEL WITH 3:1 SIDE SLOPES

PROPOSED 18" CLASS III RCP CULVERT

CULVERT 3

PROPOSED TYPE A CONCRETE STORMWATER CHANNEL WITH 3' BOTTOM WIDTH AND 1.5:1 SIDE SLOPES

PROTECT AND MAINTAIN EXISTING CHANNEL.

CULVERT 4

PROPOSED 36 INCH CLASS III RCP TO TIE INTO EXISTING BOX CULVERT. REFER TO STORMWATER MANAGEMENT DETAIL SHEET 2 FOR ADDITIONAL DETAIL.

EXISTING COMMUNICATION AND ELECTRIC UTILITIES ARE KNOWN TO EXIST IN THIS AREA. COORDINATE WORK WITH FINAL BUILDING CONSTRUCTION PLANS AND APPLICABLE SOFT DIG TECHNIQUES.

PROPOSED DUCT BANK TO BE LOCATED IN THIS AREA — COORDINATE WITH FINAL BUILDING CONSTRUCTION PLANS.

CREATE HIGH POINT BETWEEN THE TWO PROPOSED CHANNELS. THE ROADWAY CHANNEL IS TO BE PHYSICALLY SEPARATED FROM COMPRESSOR STATION PERIMETER CHANNEL.

PROPOSED TYPE A CONCRETE STORMWATER CHANNEL WITH 3' BOTTOM WIDTH AND 2:1 SIDE SLOPES

POST CONSTRUCTION STORMWATER MANAGEMENT PLAN LEGEND

- CONCRETE CHANNEL
- ASPHALT PAVEMENT
- SOIL BOUNDARY
- PROPOSED PERMEABLE PAVEMENT AREA
- PARCEL BOUNDARY
- LIMIT OF DISTURBANCE

SOIL TYPES FROM USDA SOIL SURVEY

- CmF2 (C)
- MgB (B)

LIMIT OF DISTURBANCE AREA: 18.7 ACRES

OWNER: SOUTHERN CALIFORNIA GAS COMPANY, A CALIFORNIA CORPORATION
PROPERTY: THAT PORTION OF THE RANCHO SAN FRANCISCO, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 1 OF PATENTS, PAGES 521 AND 522, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, AND MORE PARTICULARLY DESCRIBED IN THAT CERTAIN CORPORATION GRANT DEED RECORDED SEPTEMBER 30, 1975 IN BOOK D6814, PAGES 161 THROUGH 167 INCLUSIVE, OFFICIAL RECORDS OR THE SHORT CUT VERSION O.R., IN SAID OFFICE OF THE COUNTY RECORDER

0 50' 100'
SCALE: 1" = 50'-0"

REGISTERED PROFESSIONAL ENGINEER MAHER M. ZEIN No. 73475 Exp: 12/31/25 CIVIL STATE OF CALIFORNIA

ISSUED FOR PERMIT

REV	DATE	DRAWN	CHECKED	RPE APV	SCE APV	ENG. FILE NO.	DESCRIPTION	WOA	BY	DATE
									DESIGNED: J. HEMME	04/22/24
									DRAWN: C. JOHNSON	04/22/24
									CHECKED: M. ZEIN	04/22/24
D	05/07/24	CJ	MZ	KS	JY	E17031	ISSUED FOR PERMIT	92671.000	PROJ. APV.: K. SWANSON	05/07/24
C	04/22/24	CJ	MZ	KS	JY	E17031	ISSUED FOR CLIENT REVIEW	92671.000	SCE ENG APV.: J. YUAN	05/02/24
B	04/05/24	CJ	MK	KS	JY	E17031	ISSUED FOR REVIEW	92671.000	ENG. FILE NO.: E17031	
									WOA: 92671.000	

SoCalGas.

HONOR RANCHO STORAGE FIELD COMPRESSOR MODERNIZATION (HRCM) STORMWATER MANAGEMENT PLAN

28300 BRADY PARKWAY SANTA CLARITA

DWG CLASS: 50 DWG DIST: 107

SCALE: 1"=50'

DRAWING NUMBER 34005-7104-D-CIV REV D

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POST CONSTRUCTION STORMWATER MANAGEMENT PLAN LEGEND

- CONCRETE CHANNEL
- ASPHALT PAVEMENT
- SOIL BOUNDARY
- PROPOSED PERMEABLE PAVEMENT AREA
- PARCEL BOUNDARY
- LIMIT OF DISTURBANCE

SOIL TYPES FROM USDA SOIL SURVEY

- CmF2 (C)
- MgB (B)

LIMIT OF DISTURBANCE AREA: 18.7 ACRES

OWNER: SOUTHERN CALIFORNIA GAS COMPANY, A CALIFORNIA CORPORATION
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0 50' 100'
SCALE: 1" = 50'-0"

REGISTERED PROFESSIONAL ENGINEER
MAHER M. ZEIN
No. 73475
Exp: 12/31/25
CIVIL
STATE OF CALIFORNIA

ISSUED FOR PERMIT

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E	05/07/24	CJ	MZ	KS	JY	E17031	ISSUED FOR PERMIT	92671.000
D	04/22/24	CJ	MZ	KS	JY	E17031	ISSUED FOR CLIENT REVIEW	92671.000
C	04/17/24	CJ	MZ	KS	JY	E17031	ISSUED FOR REVIEW	92671.000
B	04/05/24	CJ	MZ	KS	JY	E17031	ISSUED FOR REVIEW	92671.000

	BY	DATE
DESIGNED:	J. HEMME	04/22/24
DRAWN:	C. JOHNSON	04/22/24
CHECKED:	M. ZEIN	04/22/24
PROJ APV:	K. SWANSON	05/07/24
SCG ENG APV:	J. YUAN	05/07/24
ENG FILE NO:	E17031	
WOA:	92671.000	

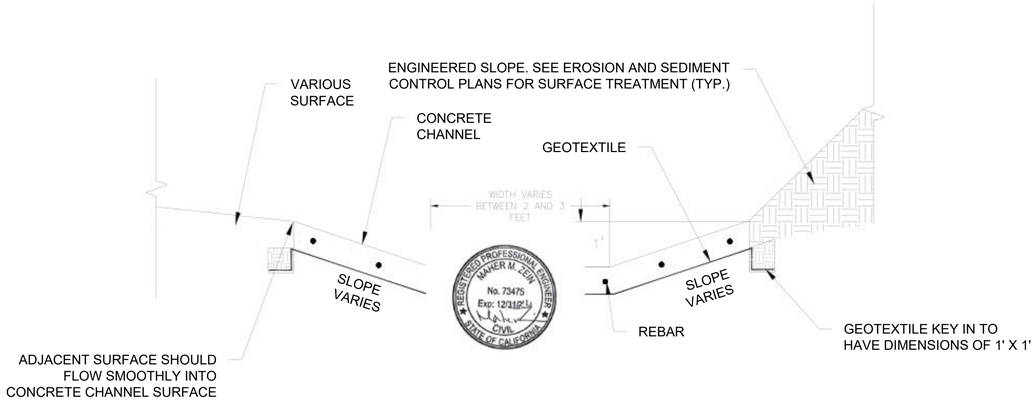
SoCalGas.

HONOR RANCHO STORAGE FIELD
COMPRESSOR MODERNIZATION (HRCM)
STORMWATER MANAGEMENT PLAN

28300 BRADY PARKWAY SANTA CLARITA

DWG CLASS: 50 | DWG DIST: 107
SCALE: 1"=50'
DRAWING NUMBER: 34005-7105-D-CIV
REV: E

G:\Dropbox (WV)\Team\JJMMA\AutoCAD\Clients E-H\0729210 - Gulf Interstate Engineering (GIE)\CAD\34005-7105-D-Civ.dwg, 5/8/2024 9:25 AM, Carla Johnson



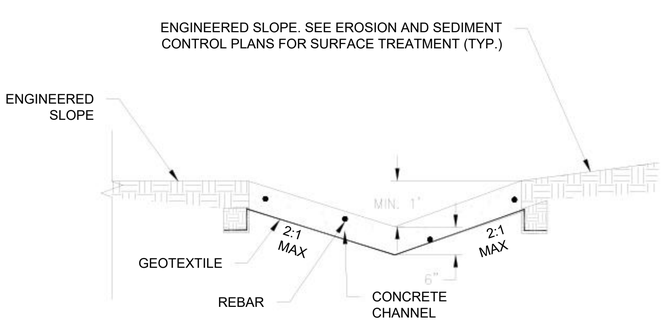
TYPICAL CONCRETE STORMWATER CHANNEL TYPE A CROSS SECTION

SCALE: NOT TO SCALE

A

NOTE:

- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
- CONCRETE TO BE A MINIMUM 6" DEPTH FOR ALL CHANNELS UNLESS OTHERWISE SPECIFIED ON PLANS.
- CHANNELS TO ON SUBGRADE AS APPROVED BY GEOTECHNICAL ENGINEER.
- CHANNEL REINFORCEMENT TO BE OF EITHER WELDED WIRE MESH OR REBAR.
- TYPICALLY MAINTAIN MINIMUM 3" COVER ON ALL SIDES OF REBAR OR WIRE MESH.
- SIDE SLOPES AND BOTTOM SLOPE VARIES. REFER TO PLANS FOR SPECIFICS DIMENSIONS.
- UNDERCUT SUBGRADE 6 INCHES AND RECOMPACT SURFACE TO MIN. 95% STANDARD PROCTOR



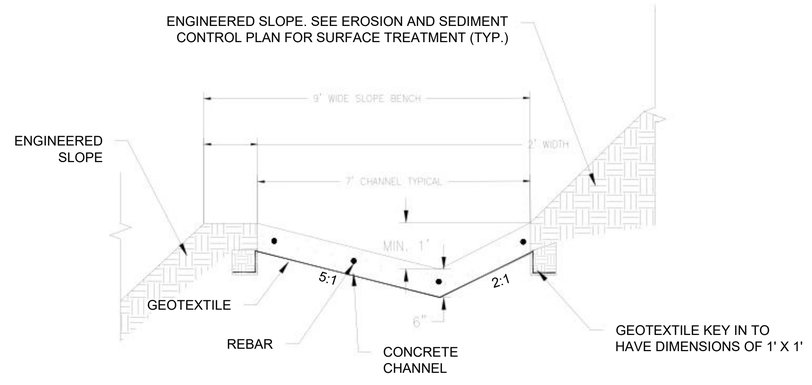
TYPICAL CONCRETE STORMWATER CHANNEL TYPE C CROSS SECTION (CONNECTOR CHANNEL)

SCALE: NOT TO SCALE

C

NOTE:

- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
- CONCRETE TO BE A MINIMUM 6" DEPTH FOR ALL CHANNELS UNLESS OTHERWISE SPECIFIED ON PLANS.
- CHANNELS TO ON SUBGRADE AS APPROVED BY GEOTECHNICAL ENGINEER.
- CHANNEL REINFORCEMENT TO BE OF EITHER WELDED WIRE MESH OR REBAR.
- TYPICALLY MAINTAIN MINIMUM 3" COVER ON ALL SIDES OF REBAR OR WIRE MESH.
- TYPICAL SIDE SLOPES MAINTAIN MAXIMUM 2:1 OR FLATTER.
- UNDERCUT SUBGRADE 6 INCHES AND RECOMPACT SURFACE TO MIN. 95% STANDARD PROCTOR.



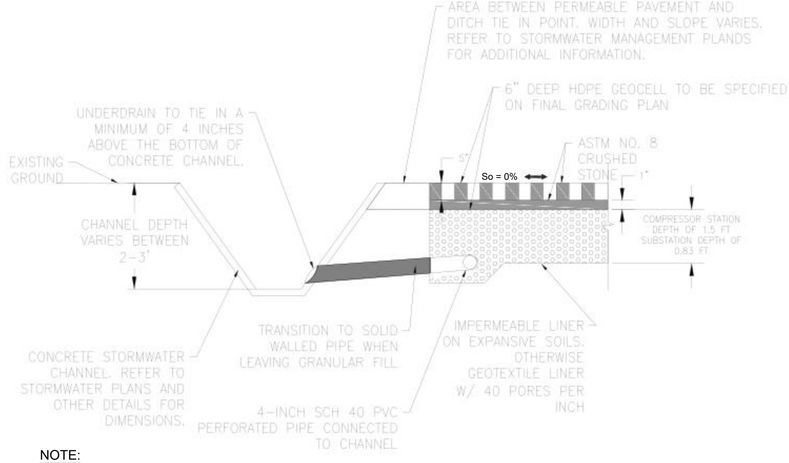
TYPICAL CONCRETE STORMWATER CHANNEL TYPE B CROSS SECTION (BENCH CHANNEL)

SCALE: NOT TO SCALE

B

NOTE:

- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
- CONCRETE TO BE A MINIMUM 6" DEPTH FOR ALL CHANNELS UNLESS OTHERWISE SPECIFIED ON PLANS.
- CHANNELS TO ON SUBGRADE AS APPROVED BY GEOTECHNICAL ENGINEER.
- CHANNEL REINFORCEMENT TO BE OF EITHER WELDED WIRE MESH OR REBAR.
- TYPICALLY MAINTAIN MINIMUM 3" COVER ON ALL SIDES OF REBAR OR WIRE MESH.
- TYPICAL SLOPE BENCH OF 9'. IF SLOPE BENCH IS WIDER SIDE SLOPES OF CHANNEL MAY VARY, REFER TO PLANS FOR DIMENSIONS.
- UNDERCUT SUBGRADE 6 INCHES AND RECOMPACT SURFACE TO MIN 95% STANDARD PROCTOR.



NOTE:

- PREPARE SUBGRADE IN PERMEABLE PAVEMENT AREAS TO A SMOOTH STABLE CONDITION WITH NOW AREAS OF PUMPING OR SPONGINESS. IN COMPRESSOR STATION AREA COMPACT SURFACE TO MIN 95% STANDARD PROCTOR. AT ELECTRIC SUBSTATION PROOF ROLL TO STABLE CONDITION

PERMEABLE PAVEMENT WITH UNDERDRAIN

SCALE: NOT TO SCALE

D

REGISTERED PROFESSIONAL ENGINEER MAHER M. ZEIN No. 73475 Exp: 12/31/24 CIVIL STATE OF CALIFORNIA

ISSUED FOR PERMIT

REV	DATE	DRAWN	CHECKED	PEL/ APV	SCE APV	ENG. FILE NO	DESCRIPTION	WOA
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D	04/22/24	CJ	MZ	KS	JY	E17031	ISSUED FOR CLIENT REVIEW	92671.000
C	04/17/24	CJ	MZ	KS	JY	E17031	ISSUED FOR REVIEW	92671.000
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BY	DATE
DESIGNED: J. HEMME	04/22/24
DRAWN: C. JOHNSON	04/22/24
CHECKED: M. ZEIN	04/22/24
PROJ APV: K. SWANSON	05/07/24
SCE ENG APV: J. YUAN	05/07/24
ENG FILE NO: E17031	
WOA: 92671.000	

SoCalGas.

DWG CLASS: 50 | DWG DIST: 107

SCALE: AS NOTED

HONOR RANCHO STORAGE FIELD COMPRESSOR MODERNIZATION (HRCM) STORMWATER MANAGEMENT DETAILS

28300 BRADY PARKWAY SANTA CLARITA

DRAWING NUMBER: 34005-7106-D-CIV

REV: E

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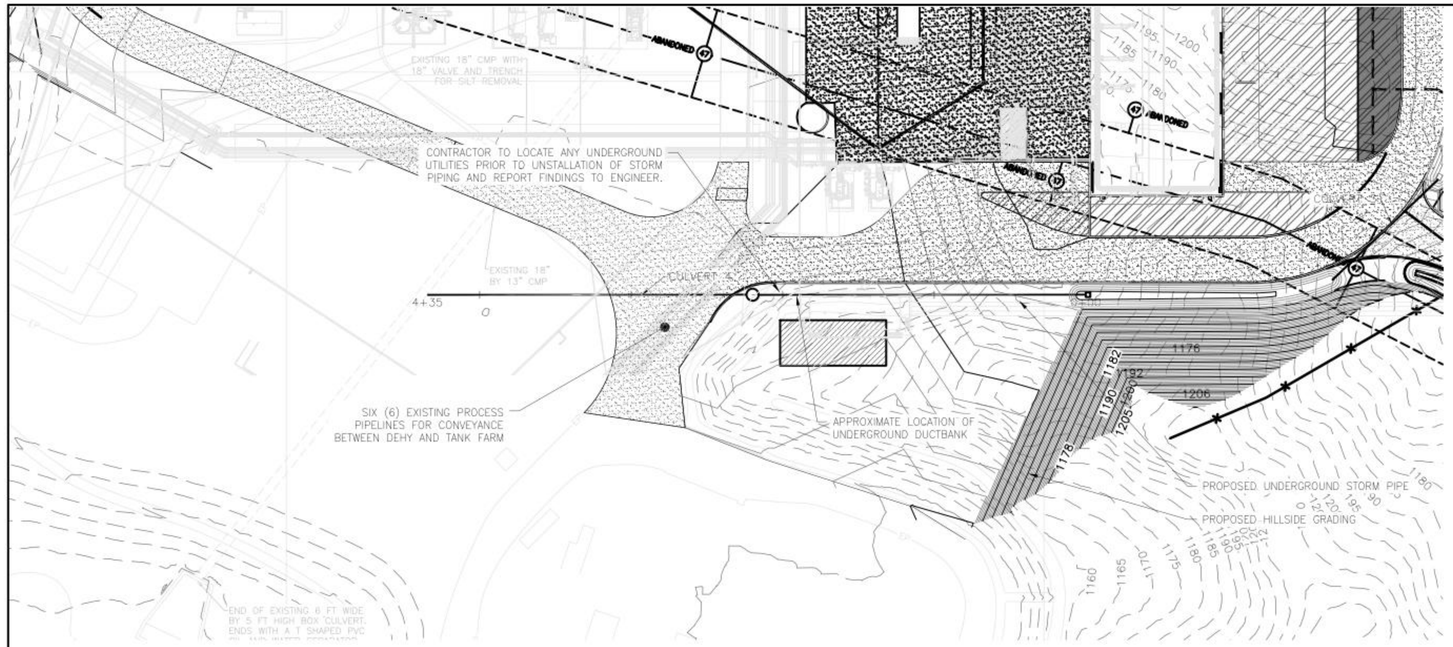
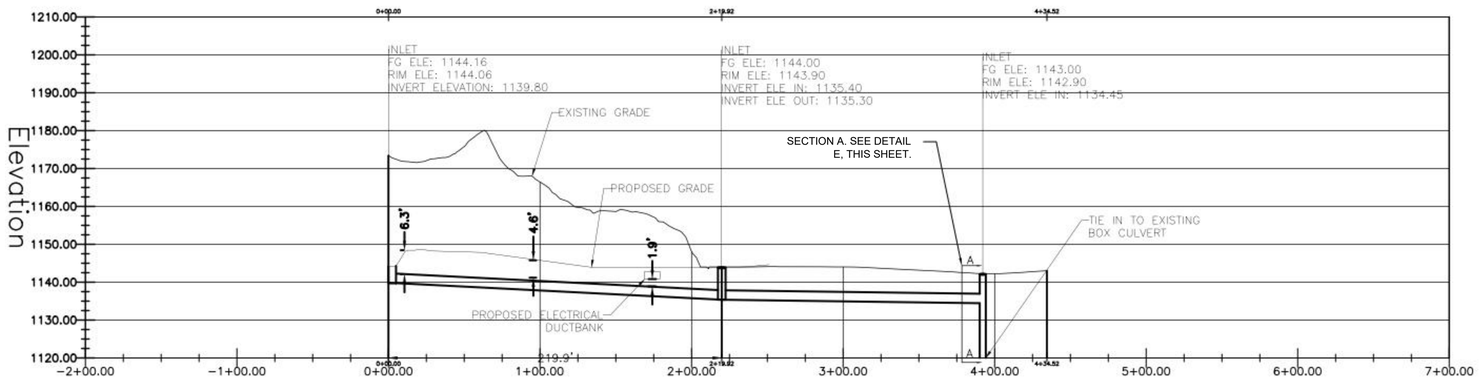


CULVERT 4 PROFILE



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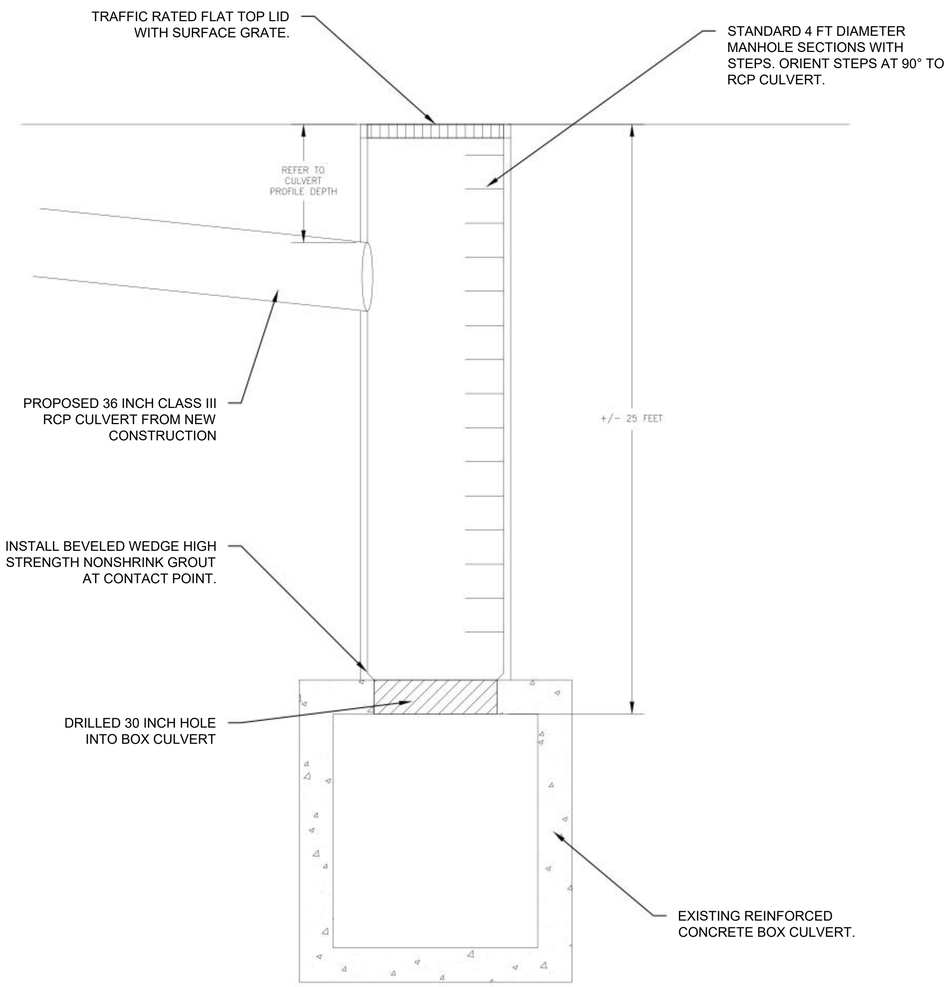
VERTICAL AXIS 0 50' 100' SCALE: 1" = 50'-0"



BOX CULVERT TIE IN DETAIL (A)

SCALE: NOT SHOWN

REGISTERED PROFESSIONAL ENGINEER — MAHER M. ZEIN — No. 73475 — Exp: 12/31/25 — CIVIL — STATE OF CALIFORNIA

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ENG FILE NO: E17031	
WOA: 92671.000	

SoCalGas.

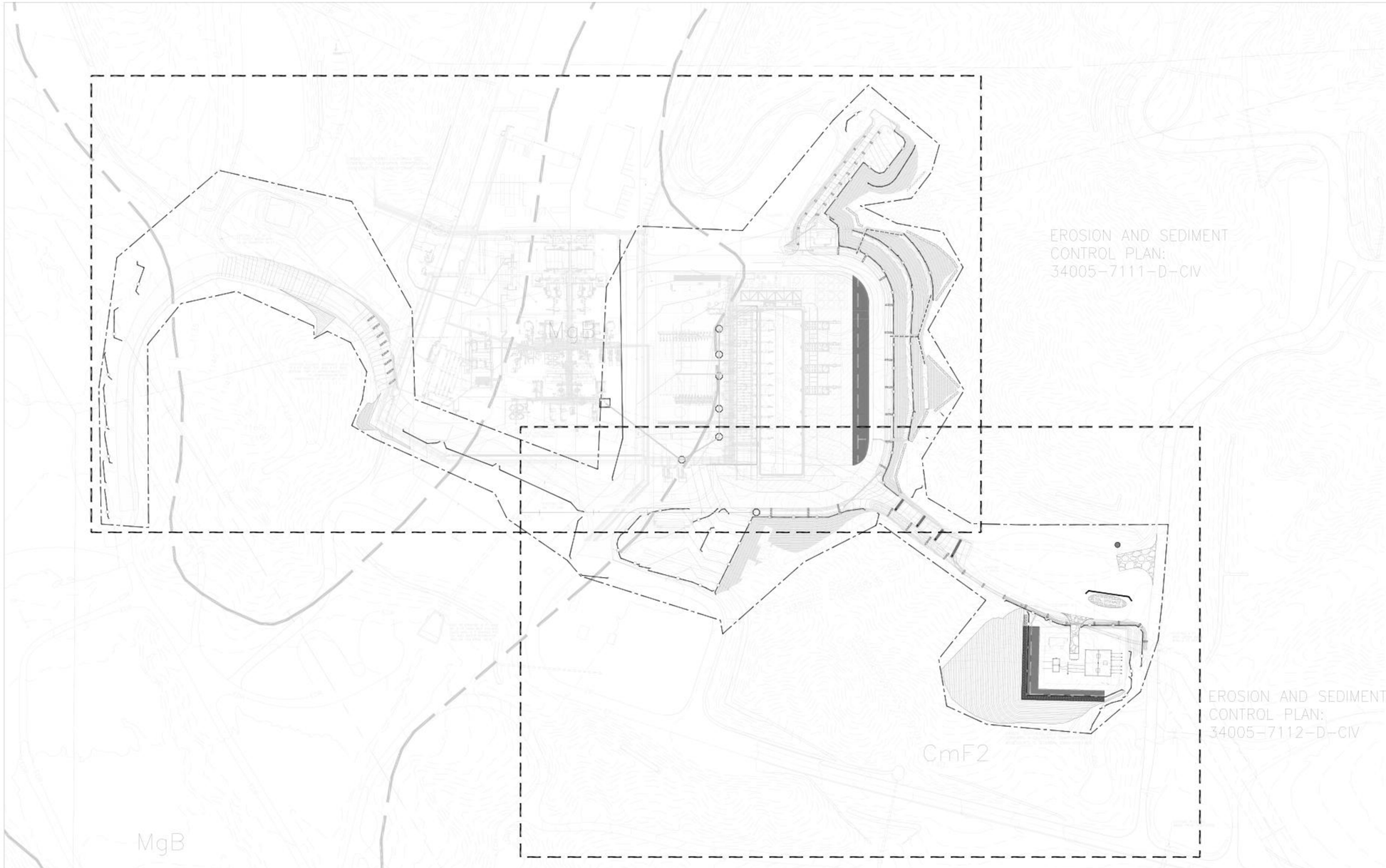
DWG CLASS: 50 DWG DIST: 107

SCALE: AS NOTED

HONOR RANCHO STORAGE FIELD
COMPRESSOR MODERNIZATION (HRCM)
STORMWATER MANAGEMENT
DETAILS

28300 BRADY PARKWAY SANTA CLARITA

DRAWING NUMBER 34005-7107-D-CIV REV D



PLANT N

EROSION AND SEDIMENT CONTROL LEGEND

- ROCK CONSTRUCTION ENTRANCE
- SOIL BOUNDARY
- SILT FENCE
- COMPOST FILTER SOCK
- ROLLED EROSION CONTROL PROTECTION MATTING
- DIVERSION BERM
- TEMPORARY ROCK CHECK DAM
- TEMPORARY STEEP SLOPE PIPING
- LIMIT OF DISTURBANCE
- TEMPORARY WATERBARS
- PERMEABLE PAVEMENT BEST MANAGEMENT PRACTICE
- INLET PROTECTION

SOIL TYPES FROM USDA SOIL SURVEY

- CmF2 (C)
- MgB (B)

LIMIT OF DISTURBANCE AREA: 18.7 ACRES

OWNER: SOUTHERN CALIFORNIA GAS COMPANY, A CALIFORNIA CORPORATION
PROPERTY: THAT PORTION OF THE RANCHO SAN FRANCISCO, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 1 OF PATENTS, PAGES 521 AND 522, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, AND MORE PARTICULARLY DESCRIBED IN THAT CERTAIN CORPORATION GRANT DEED RECORDED SEPTEMBER 30, 1975 IN BOOK D6814, PAGES 161 THROUGH 167 INCLUSIVE, OFFICIAL RECORDS OR THE SHORT CUT VERSION O.R., IN SAID OFFICE OF THE COUNTY RECORDER

REGISTERED PROFESSIONAL ENGINEER
MAHER M. ZEIN
No. 73475
Exp: 12/31/24
CIVIL
STATE OF CALIFORNIA

ISSUED FOR PERMIT

0 100' 200'
SCALE: 1" = 100'-0"

REV	DATE	DRAWN	CHECKED	PRJ APV	SCG APV	ENG. FILE NO.	DESCRIPTION	MOA
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C	04/22/24	CJ	MZ	KS	JY	E17031	ISSUED FOR CLIENT REVIEW	92671.000
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PROJ APV: K. SWANSON	05/07/24
SCG ENG. APV: J. YUAN	05/07/24
ENG. FILE NO: E17031	
MOA: 92671.000	

SoCalGas.

DWG CLASS: 50 | DWG DIST: 107
SCALE: 1"=100'

HONOR RANCHO STORAGE FIELD COMPRESSOR MODERNIZATION (HRCM) OVERALL EROSION AND SEDIMENT CONTROL PLAN

28300 BRADY PARKWAY SANTA CLARITA

DRAWING NUMBER: 34005-7110-D-CIV REV: D

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EROSION AND SEDIMENT CONTROL LEGEND

- ROCK CONSTRUCTION ENTRANCE
- SOIL BOUNDARY
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- INLET PROTECTION

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REGISTERED PROFESSIONAL ENGINEER — MAHER M. ZEIN — No. 73475 — Exp: 12/31/25 — CIVIL — STATE OF CALIFORNIA

0 50' 100'
SCALE: 1" = 50'-0"

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ENG FILE NO: E17031
WOA: 92671.000
DWG CLASS: 50 DWG DIST: 107
SCALE: 1"=50'

SoCalGas.

HONOR RANCHO STORAGE FIELD COMPRESSOR MODERNIZATION (HRCM)
EROSION AND SEDIMENT CONTROL PLAN
28300 BRADY PARKWAY SANTA CLARITA
DRAWING NUMBER: 34005-7111-D-CIV REV: D

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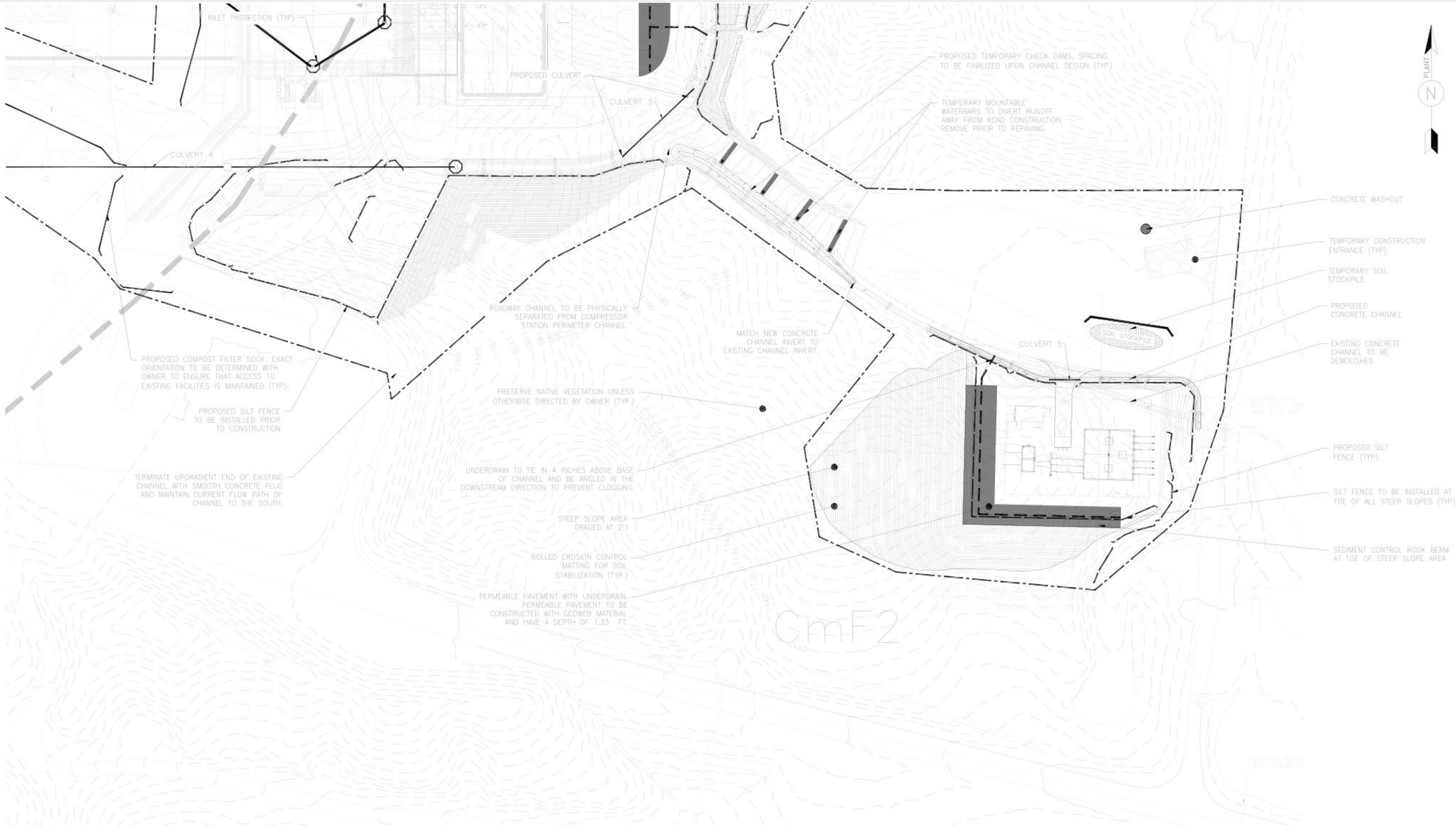

EROSION AND SEDIMENT CONTROL LEGEND

- ROCK CONSTRUCTION ENTRANCE
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REGISTERED PROFESSIONAL ENGINEER
MAHER M. ZEIN
No. 73475
Exp: 12/31/25
CIVIL
STATE OF CALIFORNIA

0 50' 100'
SCALE: 1" = 50'-0"

ISSUED FOR PERMIT

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									DESIGNED: J. HEMME	04/22/24
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DWG CLASS: 50 | DWG DIST: 107
SCALE: 1"=50'

HONOR RANCHO STORAGE FIELD
COMPRESSOR MODERNIZATION (HRCM)
EROSION AND SEDIMENT CONTROL PLAN

28300 BRADY PARKWAY SANTA CLARITA

DRAWING NUMBER: 34005-7112-D-CIV REV: D

WOA: 92671.000

SITE DESCRIPTION

PROJECT NAME AND LOCATION:
SOCAL GAS – HONOR RANCHO SITE
BRADY PARKWAY, SANTA CLARITA, CALIFORNIA 91355

DESCRIPTION:
THIS PROJECT WILL CONSIST OF DEVELOPMENT OF A COMPRESSOR STATION AND SUBSTATION WITH ASSOCIATED ACCESS ROADS, GRADING AND UTILITIES.

RUNOFF COEFFICIENT: PRE–DEVELOPMENT RUN–OFF COEFFICIENT – 84
POST–DEVELOPMENT RUN–OFF COEFFICIENT – 91

SITE AREA: APPROXIMATELY 18.7 ACRES OF THE SITE WILL BE DISTURBED FOR THE CONSTRUCTION PROJECT.

SOIL TYPES:
CmF2 MoA
HcC SsB
MgB

SEQUENCE OF MAJOR ACTIVITIES:
THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:
1. INSTALL PERIMETER CONTROLS
2. CLEAR AND GRUB
3. FULL SITE GRADING
4. PILE TOPSOIL WITHIN PERIMETER EROSION AND SEDIMENT CONTROLS
5. STABILIZE DENUDED AREAS AND STOCKPILES WITHIN 14 DAYS OF LAST CONSTRUCTION ACTIVITY IN THAT AREA
6. CONSTRUCTION OF ACCESS ROAD AND CONCRETE CHANNELS.
7. CONSTRUCTION OF PROPOSED BUILDINGS
8. FINAL GRADING AND INSTALL PERMANENT SEEDING
9. RESEED ANY DISTURBED AREAS AND LANDSCAPE SITE
10. REMOVAL OF TEMPORARY CONTROLS UPON SITE STABILIZATION

NAME OF RECEIVING WATERS: THE ENTIRE SITE IS TRIBUTARY TO THE SANTA CLARA RIVER.

GENERAL NOTES

ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH ALL LOCAL EROSION/SEDIMENT CONTROL, WASTE DISPOSAL, SANITARY AND HEALTH REGULATIONS.

ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST MEET THE STANDARDS AND SPECIFICATIONS OF THE COUNTY OF LOS ANGELES NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM–MS4 PERMIT, TITLE 12.80–ENVIRONMENTAL PROTECTION CODE, TITLE 26–BUILDING CODE, AND TITLE 31–GREEN BUILDING STANDARDS CODE .

OTHER EROSION CONTROL ITEMS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND IMPLEMENTATION OF ADDITIONAL EROSION CONTROL ITEMS, AT THE ENGINEER'S DISCRETION.

REGULAR INSPECTION AND MAINTENANCE WILL BE PROVIDED FOR ALL EROSION AND SEDIMENT CONTROL PRACTICES.

THE CONTRACTOR SHALL USE EROSION CONTROL MEASURES AS NECESSARY TO PREVENT SEDIMENT MOVEMENT INTO AREAS DESIGNATED AS WETLANDS.

NO SOLID OR LIQUID WASTE SHALL BE DISCHARGED INTO STORM WATER RUNOFF.

ADDITIONAL EROSION AND SEDIMENT CONTROL BMP'S MAY BE REQUIRED AS IDENTIFIED BY THE DESC INSPECTOR.

CONTROLS

EROSION AND SEDIMENT CONTROLS: COMPOST FILTER SOCK, SILT FENCING, ROCK CONSTRUCTION ENTRANCE, TIRE WASH RACK, AND CONCRETE WASHOUT.

STABILIZATION PRACTICES

TEMPORARY STABILIZATION – TOPSOIL STOCKPILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 21 DAYS WILL BE STABILIZED WITH TEMPORARY SEED AND MULCH NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA. THE TEMPORARY SEED SHALL BE APPLIED AS PER THE TEMPORARY SEEDING SPECIFICATIONS. AREAS OF THE SITE WHICH ARE TO BE PAVED WILL BE TEMPORARILY STABILIZED BY APPLYING GEOTEXTILE AND STONE SUB–BASE UNTIL ASPHALT PAVEMENT CAN BE APPLIED.

PERMANENT STABILIZATION – DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASES SHALL BE STABILIZED WITH PERMANENT SEED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OR WITHIN 2 DAYS FOR AREAS WITHIN 50 FEET OF A STREAM. REFER TO LANDSCAPE PLAN FOR DETAILS.

STORMWATER MANAGEMENT
STORMWATER DRAINAGE WILL BE PROVIDED VIA A CONCRETE LINED CHANNEL AND SHEET FLOW. THE STORMWATER WILL DRAIN TO EXISTING BASINS ON THE SITE.

OTHER CONTROLS

WASTE DISPOSAL:
ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER RENTED FROM A LICENSED SOLID WASTE MANAGEMENT COMPANY. THE DUMPSTER WILL MEET ALL LOCAL, CITY AND STATE SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF TWICE PER WEEK OR MORE OFTEN IF NECESSARY, AND THE TRASH WILL BE HAULED OFF–SITE. NO CONSTRUCTION WASTE MATERIALS WILL BE BURIED ONSITE. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED IN THE OFFICE TRAILER. THE INDIVIDUAL WHO MANAGES THE DAY–TO–DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED. ALL CONSTRUCTION AND DEMOLITION DEBRIS (C&DD) WASTE WILL BE DISPOSED OF IN A CALIFORNIA EPA APPROVED WASTE SITE AND BE COMPLIANT WITH THE COUNTY OF LOS ANGELES CONSTRUCTION AND DEMOLITION DEBRIS RECYCLING ORDINANCE.

HAZARDOUS WASTE:
ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES. THE INDIVIDUAL WHO MANAGES DAY–TO–DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

SANITARY WASTE:
ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF THREE TIMES PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR, AS REQUIRED BY LOCAL REGULATION.

OFF–SITE VEHICLE TRACKING:
OFF–SITE TRACKING OF SEDIMENTS SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION ENTRANCE WITH TIRE WASHING WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. ALL PAVED STREETS ADJACENT TO THE SITE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. ADDITIONAL SCRAPING MAY BE NEEDED TO ADEQUATELY REMOVE CLAY LIKE SOILS. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.

DEWATERING ACTIVITIES:
THERE SHALL BE NO TURBID DISCHARGES TO SURFACE WATERS, RESULTING FROM DEWATERING ACTIVITIES. SEDIMENT–LADEN WATER MUST PASS THROUGH A SETTLING POND, FILTER BAG, OR OTHER COMPARABLE PRACTICE, PRIOR TO DISCHARGE.

PROCESS WASTEWATER:
ALL PROCESS WASTEWATER (EQUIPMENT WASHING, LEACHATE FROM ON–SITE WASTE DISPOSAL, ETC.) SHALL BE COLLECTED AND DISPOSED OF AT A PUBLICLY OWNED TREATMENT WORKS.

TIMING OF CONTROLS/MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, CONSTRUCTION ENTRANCE(S) AND COMPOST FILTER SOCK WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. SEDIMENT CONTROL DEVICES SHALL BE IMPLEMENTED FOR ALL AREAS REMAINING DISTURBED LONGER THAN 14 DAYS AND/OR WITHIN 7 DAYS OF ANY GRUBBING ACTIVITIES. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 21 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 2 DAYS OF THE LAST DISTURBANCE IF THE AREA IS WITHIN 50 FEET OF A STREAM, AND WITHIN 7 DAYS OF THE LAST DISTURBANCE IF THE AREA IS MORE THAN 50 FEET AWAY FROM A STREAM. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE BASIN.

INVENTORY FOR POLLUTION PREVENTION PLAN

- SILT FENCING
- COMPOST FILTER SOCK
- ROCK CONSTRUCTION ENTRANCE
- CONCRETE WASHOUT
- STOCKPILE MANAGEMENT
- CHECK DAMS
- INLET PROTECTION
- ROLLED EROSION CONTROL MAT

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES:
THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF.

GOOD HOUSEKEEPING: THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.

1. AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
2. ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE WATERTIGHT CONTAINERS OR IN A COMPLETELY ENCLOSED STORAGE AREA.
3. PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
4. SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
5. WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
6. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
7. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO VERIFY PROPER USE AND DISPOSAL OF MATERIALS ONSITE.
8. ROUTINE INSPECTIONS WILL BE PERFORMED ON BMP CONTROLS WEEKLY, PRIOR TO FORECASTED RAIN EVENTS, DAILY DURING EXTENDED RAIN EVENTS, AFTER THE CONCLUSION OF RAIN EVENTS AND OR CLEANUP ACTIVITY. INITIATE REPAIRS RELATED TO A STORM EVENT WITHIN 72 HOURS OF IDENTIFYING THE PROBLEM OR AS SOON AS FEASIBLE BUT PRIOR TO THE NEXT FORECAST PRECIPITATION EVENT, PER THE CGP FOR SWPPP PROJECTS.

HAZARDOUS PRODUCTS: THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

1. PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
2. ORIGINAL LABELS AND MATERIAL SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
3. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.

PRODUCT SPECIFIC PRACTICES

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ONSITE:

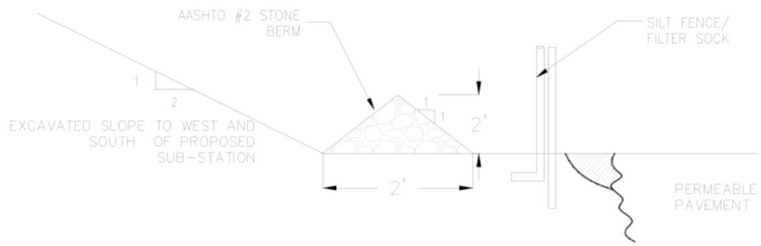
PETROLEUM PRODUCTS – ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

FUEL STORAGE TANKS SHALL BE LOCATED AWAY FROM SURFACE WATERS AND STORM SEWER SYSTEM INLETS. FUEL TANKS SHALL BE STORED IN A DIKED AREA CAPABLE OF HOLDING 150% OF THE TANK CAPACITY.

FERTILIZERS – FERTILIZERS USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER. STORAGE WILL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.

PAINTS – ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONCRETE TRUCKS – CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.



SEDIMENT CONTROL ROCK BERM
SCALE: NOT TO SCALE
A

ISSUED FOR PERMIT

REGISTERED PROFESSIONAL ENGINEER
MAHER M. ZEIN
No. 73475
Exp: 12/31/25
CIVIL
STATE OF CALIFORNIA

REV	DATE	DRAWN	CHECKED	PRJ APV.	SCG APV.	ENG FILE NO.	DESCRIPTION	WOA
E	05/07/24	CJ	MZ	KS	JY	E17031	ISSUED FOR PERMIT	92671.000
D	04/22/24	CJ	MZ	KS	JY	E17031	ISSUED FOR CLIENT REVIEW	92671.000
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	BY	DATE
DESIGNED: J. HEMME		04/22/24
DRAWN: C. JOHNSON		04/22/24
CHECKED: M. ZEIN		04/22/24
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SoCalGas.

DWG CLASS: 50 | DWG DIST: 107
SCALE: AS SHOWN

HONOR RANCHO STORAGE FIELD COMPRESSOR MODERNIZATION (HRCM) EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

28300 BRADY PARKWAY SANTA CLARITA

DRAWING NUMBER: 34005–7113–D–CIV REV: E

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SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

1. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
2. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
3. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
9. ONLY STAFF TRAINED ON SPILL RESPONSE WILL BE USED TO CONTROL SPILLS.
10. IF THE SPILL IS A THREAT TO LIFE OR THE ENVIRONMENT, OR OTHER EMERGENCY SITUATION WHERE EMERGENCY MEDICAL SUPPORT, FIRE DEPARTMENT RESPONSE OR OUTSIDE ASSISTANCE IS NEEDED, IMMEDIATELY CALL THE 911 OPERATOR AND THE LOCAL EMERGENCY RESPONSE AGENCY.
11. FOR ALL SPILLS IMMEDIATELY NOTIFY THE ACTIVITY AND SITE SUPERVISOR AND/OR THE PROJECT ENVIRONMENTAL LEAD AND DESCRIBE THE SPILL AND CURRENT SITUATION. THE PROJECT ENVIRONMENTAL LEAD WILL MAKE ANY REQUIRED REGULATORY AGENCY NOTIFICATIONS PER ENVIRONMENTAL STANDARD (ES) 104.02.
12. IF POSSIBLE, AND IF YOU HAVE PROPER TRAINING AND PERSONAL PROTECTIVE EQUIPMENT, STOP THE FLOW OF THE SPILL. IF IT CAN BE DONE SAFELY, CONTAIN THE SPILL TO A CONFINED AREA. CONTAINMENT MAY BE ACCOMPLISHED WITH: EARTHEN BERMS, SANDBAGS, ABSORBENT SOCKS AND BOOMS.
13. CONTAINMENT MATERIAL ON SITE AS PART OF THE SPILL KIT SHOULD REFLECT SITE CHARACTERISTICS. FOR GUIDANCE, REQUEST ASSISTANCE FROM THE FIELD ENVIRONMENTAL REPRESENTATIVE.
14. TO THE EXTENT THAT IT DOESN'T COMPROMISE CLEANUP ACTIVITIES, SPILLS SHALL BE COVERED AND PROTECTED FROM STORM WATER RUN-ON/-OFF DURING RAIN EVENTS.
15. IMMEDIATELY CLEAN THE IMPACTED AREA AND PROPERLY DISPOSE OF ANY IMPACTED MATERIALS.
16. SPILLS SHALL NOT BE BURIED, EXCEPT AS NECESSARY FOR IMMEDIATE INTERIM CONTAINMENT PURPOSES. SPILLED MATERIAL AND IMPACTED BUILD MATERIAL MUST BE REMOVED AS SOON AS POSSIBLE AFTER PROPER CONTROL AND CONTAINMENT AND PROPERLY DISPOSED OF.
17. USE ABSORBENT MATERIALS ON SPILLS TO THOROUGHLY CLEAN UP THE MATERIAL TO THE MAXIMUM EXTENT POSSIBLE. SPILLS SHALL NOT BE DILUTED WITH WATER OR OTHER LIQUID FOR PURPOSES OF MITIGATING THE SPILL. WHEN IT IS NECESSARY TO USE WATER OR OTHER LIQUID FOR FINAL CLEANING AND DECONTAMINATION OF A SPILL, THE WATER OR OTHER LIQUID SHALL NOT BE ALLOWED TO ENTER STORM DRAIN INLETS, DRAINAGES, OR WATERCOURSES, AND SHALL BE COLLECTED AND DISPOSED OF PROPERLY. COORDINATE DISPOSAL OF THESE WASTES WITH SDGE HAZARDOUS WASTE.
18. USED CLEANUP MATERIALS, CONTAMINATED MATERIALS, AND RECOVED SPILL MATERIAL SHALL BE STORED AND DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS AND BMP 2-05 "HAZARDOUS MATERIALS/WASTE MANAGEMENT."

DUST CONTROL

DUST CONTROL INVOLVES PREVENTING OR REDUCING DUST FROM EXPOSED SOILS OR OTHER SOURCES DURING LAND DISTURBING, DEMOLITION AND CONSTRUCTION ACTIVITIES TO REDUCE THE PRESENCE OF AIRBORNE SUBSTANCES WHICH MAY PRESENT HEALTH HAZARDS, TRAFFIC SAFETY PROBLEMS OR HARM ANIMAL OR PLANT LIFE.

DUST CONTROL METHODS SHOULD BE APPROVED BY PROJECT ENVIRONMENTAL LEAD.

THE FOLLOWING SPECIFICATIONS FOR DUST CONTROL SHALL BE FOLLOWED ONSITE:

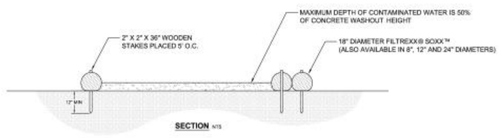
1. VEGETATIVE COVER AND/MULCH – APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREAS THAT WILL REMAIN IDLE FOR OVER 21 DAYS. SAVING EXISTING TREES AND LARGE SHRUBS WILL ALSO REDUCE SOIL AND AIR MOVEMENT ACROSS DISTURBED AREAS. SEE TEMPORARY SEEDING; PERMANENT SEEDING; MULCHING PRACTICES; AND TREE AND NATURAL AREA PROTECTION PRACTICES.
2. WATERING – SPRAY SITE WITH WATER UNTIL THE SURFACE IS WET BEFORE AND DURING GRADING AND REPEAT AS NEEDED, ESPECIALLY ON HAUL ROADS AND OTHER HEAVY TRAFFIC ROUTES. WATERING SHALL BE DONE AT A RATE THAT PREVENTS DUST BUT DOES NOT CAUSE SOIL EROSION. WETTING AGENTS SHALL BE UTILIZED ACCORDING TO MANUFACTURERS INSTRUCTIONS.
3. SPRAY-ON ADHESIVES – APPLY ADHESIVE ACCORDING TO THE FOLLOWING TABLE OR MANUFACTURERS' INSTRUCTIONS.

ADHESIVE	WATER DILUTION (ADHESIVE: WATER)	NOZZLE TYPE	APPLICATION RATE GAL./AC.
LATEX EMULSION	12.5:1	FINE	235
RESIN IN WATER ACRYLIC EMULSION (NO-TRAFFIC)	4:1	FINE	300
ACRYLIC EMULSION (NO-TRAFFIC)	7:1	COARSE	450
ACRYLIC EMULSION (TRAFFIC)	3.5:1	COARSE	350

4. STONE – GRADED ROADWAYS AND OTHER SUITABLE AREAS WILL BE STABILIZED USING CRUSHED STONE OR COARSE GRAVEL AS SOON AS PRACTICABLE AFTER REACHING AN INTERIM OR FINAL GRADE. CRUSHED STONE OR COARSE GRAVEL CAN BE USED AS A PERMANENT COVER TO PROVIDE CONTROL OF SOIL EMISSIONS.
5. BARRIERS – EXISTING WINDBREAK VEGETATION SHALL BE MARKED AND PRESERVED. SNOW FENCING OR OTHER SUITABLE BARRIER MAY BE PLACED PERPENDICULAR TO PREVAILING AIR CURRENTS AT INTERVALS OF ABOUT 15 TIMES THE BARRIER HEIGHT TO CONTROL AIR CURRENTS AND BLOWING SOIL.
6. CALCIUM CHLORIDE – THIS CHEMICAL MAY BE APPLIED BY MECHANICAL SPREADER AS LOOSE, DRY GRANULES OR FLAKES AT A RATE THAT KEEPS THE SURFACE MOIST BUT NOT SO HIGH AS TO CAUSE WATER POLLUTION OR PLANT DAMAGE. APPLICATION RATES SHOULD BE STRICTLY IN ACCORDANCE WITH SUPPLIERS' SPECIFIED RATES.
7. OPERATION AND MAINTENANCE – WHEN TEMPORARY DUST CONTROL MEASURES ARE USED; REPETITIVE TREATMENT SHOULD BE APPLIED AS NEEDED TO ACCOMPLISH CONTROL.
8. STREET CLEANING – PAVED AREAS THAT HAVE ACCUMULATED SEDIMENT FROM CONSTRUCTION SHOULD BE CLEANED DAILY, OR AS NEEDED, UTILIZING A STREET SWEEPER OR BUCKET – TYPE ENDLOADER OR SCRAPER.

CONCRETE WASHOUT

SPECIFICATIONS FOR CONCRETE WASHOUT



NOTES:
1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
2. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.
3. A SUITABLE GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS.
4. WASHOUTS SHALL BE COVERED AT THE END OF EACH WORKDAY

*APDATED FROM FILTREXX

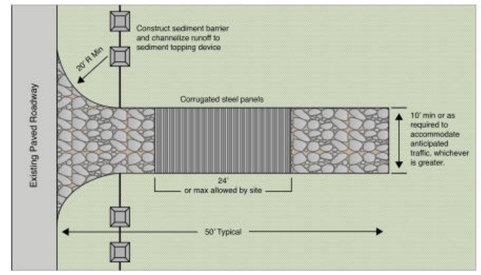
1. THE RESIDUE OR CONTENTS OF ALL CONCRETE MIXERS, DUMP TRUCKS, OTHER CONVEYANCE EQUIPMENT AND FINISHING TOOLS SHALL BE WASHED INTO CONCRETE CLEAN-OUT STRUCTURES CONSISTING OF A COMPOAST FILTER SOCK BARRIER. THE LENGTH AND WIDTH OF THESE STRUCTURES SHALL BE AS DETERMINED BY THE CONTRACTOR TO FACILITATE THE PARTICULAR EQUIPMENT USED. THESE STRUCTURES SHALL BE CONSTRUCTED ON LEVEL GROUND AT LEAST 100' FROM THE NEAREST WATERCOURSE, DRAINAGE SWALE OR INLET. AT NO TIME SHALL THE STRUCTURE BE ALLOWED TO BE MORE THAN 50% FULL. THE CONTRACTOR SHALL MAINTAIN THESE PONDS UNTIL ALL CONCRETE PLACEMENT IS COMPLETE FOR THE PROJECT.
2. DRIVE 2"X2"X36" WOOD STAKES THROUGH THE COMPOST FILTER SOCK, TO SECURELY ANCHOR THE SOCK AND CONNECT THE SOCK AS NEEDED. GRAVEL BACKFILL SHALL BE PROVIDED AND TAMPED AROUND THE OUTSIDE PERIMETER OF THE SOCK TO PREVENT EROSION AND FLOW AROUND THE BALES.
3. THE INTENT OF THESE STRUCTURES IS TO COLLECT ALL CONCRETE WASH OUT WATER AND ALLOW IT TO DRY TO A SOLID MATERIAL. AFTER DRYING, THE SOLID MATERIAL CAN BE REMOVED WITH A LOADER OR EXCAVATOR FOR PROPER DISPOSAL. WASH OUT WILL NOT BE PERMITTED IN ANY OTHER AREAS.
4. USE THE MINIMUM AMOUNT OF WATER TO WASH THE VEHICLES AND EQUIPMENT. NEVER DISPOSE OF WASH OUT INTO THE STREET, STORM INLET, DRAINAGE SWALE OR WATERCOURSE. DISPOSE OF SMALL AMOUNTS OF EXCESS DRY CONCRETE, GROUT AND MORTAR IN THE TRASH. ANY SOAPS THAT ARE UTILIZED SHALL BE PHOSPHATE-FREE AND BIODEGRADABLE.
5. ADDITIONAL CONCRETE CLEAN-OUT STRUCTURES SHALL BE CONSTRUCTED WITHIN THE SPECIFIED AREA AS NEEDED BASED UPON THE VOLUME OF WASH OUT GENERATED DAILY.

CONSTRUCTION ENTRANCE

DESCRIPTION

A CONSTRUCTION ENTRANCE IS A STABILIZED PAD OF STONE UNDERLAIN WITH GEOTEXTILE AND IS USED TO REDUCE THE AMOUNT OF MUD TRACKED OFF-SITE WITH CONSTRUCTION TRAFFIC. LOCATED AT POINTS OF INGRESS/EGRESS, THE PRACTICE IS USED TO REDUCE THE AMOUNT OF MUD TRACKED OFF-SITE WITH CONSTRUCTION TRAFFIC.

SPECIFICATIONS FOR CONSTRUCTION ENTRANCE



1. STONE SIZE –1.5-2.5 INCH STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 50 FT.
3. THICKNESS – THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
4. WIDTH – THE ENTRANCE SHALL BE AT LEAST 10 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. GEOTEXTILE – A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE AREA, PRIOR TO PLACING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

FIGURE 7.4.1

GEOTEXTILE SPECIFICATION FOR CONSTRUCTION ENTRANCE	
MINIMUM TENSILE STRENGTH	200 LBS.
MINIMUM PUNCTURE STRENGTH	80 PSI.
MINIMUM TEAR STRENGTH	50 LBS.
MINIMUM BURST STRENGTH	320 PSI.
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EOS < 0.6 MM.
PERMITTIVITY	1X10-3 CM/SEC.

6. TIMING – THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
7. CULVERT – A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FROM FLOWING ACROSS THE ENTRANCE OR TO PREVENT RUNOFF FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
8. WATER BAR – A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
9. MAINTENANCE – TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY. REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
10. MAINTENANCE – REPAIR FABRIC DAMAGED DURING ROCK SPREADING BY PLACING NEW FABRIC OVER THE DAMAGED AREA. THE NEW FABRIC MUST BE LARGE ENOUGH TO COVER THE DAMAGED AREA AND PROVIDE AT LEAST AN 18 INCH OVERLAP ON ALL EDGES.
11. MAINTENANCE – REPAIR A TEMPORARY CONSTRUCTION ENTRANCE IF THE FABRIC IS EXPOSED, DEPRESSIONS DEVELOP IN THE SURFACE, OR ROCK IS DISPLACED.
12. CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY AREAS.
13. REMOVAL – THE ENTRANCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS STABILIZED OR REPLACED WITH A PERMANENT ROADWAY OR ENTRANCE.

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HONOR RANCHO STORAGE FIELD
COMPRESSOR MODERNIZATION (HRCM)
EROSION AND SEDIMENT CONTROL
NOTES AND DETAILS

28300 BRADY PARKWAY SANTA CLARITA

DRAWING NUMBER: 34005-7114-D-CIV REV: E

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TEMPORARY SEEDING

DESCRIPTION

TEMPORARY SEEDINGS ESTABLISH TEMPORARY COVER ON DISTURBED AREAS BY PLANTING APPROPRIATE RAPIDLY GROWING ANNUAL GRASSES OR SMALL GRAINS. TEMPORARY SEEDING PROVIDES EROSION CONTROL ON AREAS IN BETWEEN CONSTRUCTION OPERATIONS. GRASSES WHICH ARE QUICK GROWING ARE SEEDED AND USUALLY MULCHED TO PROVIDE PROMPT, TEMPORARY SOIL STABILIZATION. IT EFFECTIVELY MINIMIZES THE AREA OF A CONSTRUCTION SITE PRONE TO EROSION AND SHOULD BE USED EVERYWHERE THE SEQUENCE OF CONSTRUCTION OPERATIONS ALLOWS VEGETATION TO BE ESTABLISHED.

SPECIFICATIONS FOR TEMPORARY SEEDING

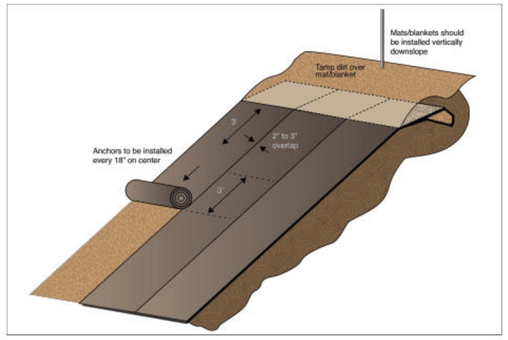
1. THE SELECTION OF HYDROSEEDING MATERIALS MUST BE APPROVED BY THE DISTRICT STORMWATER COORDINATOR AND LANDSCAPE ARCHITECT AND SHALL COMPLY WITH CALIFORNIA'S STANDARD SPECIFICIATIONS SECTION 20-3.04B, 20-2.10, AND ANY SPECIAL PROVISIONS OF THE PROJECT. (GUIDANCE FOR TEMPORARY SOIL STABILIZATION, JULY 2003 – STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION).
2. ALL SEEDS INCORPORATED IN THE HYDROSEED MIXTURE, MUST COMPLY WITH THE CALIFORNIA STATE SEED LAW OF THE DEPARTMENT OF AGRICULTURE. EACH SEED BAG SHALL BE DELIVERED TO THE SITE SEALED AND CLEARLY MARKED AS TO THE SPECIES, PURITY, PERCENT GERMINATION, DEALER'S GUARANTEE, AND DATES OF TEST. THE CONTRACTOR SHALL PROVIDE THE RESIDENT ENGINEER WITH SUCH DOCUMENTATION.
3. HYDROSEED MUST BE AT LEAST 50 PERCENT WOOD FIBER. THE REMAINING PERCENTAGE MUST BE CELLULOSE FIBER, ALTERNATE FIBER OR A COMBINATION OF THESE FIBERS. THE FIBER MUST BE COMPLIANT WITH SECTION 21-2.202D OF THE STATE OF CALIFORNIA'S STANDARD SPECIFICATION MANUAL.
4. SEED MUST NOT CONTAIN PROHIBITED NOXIOUS WEED SEED OR MORE THAN 1.0 PERCENT TOTAL WEED SEED BY WEIGHT.

6. TEMPORARY SEED SHALL BE APPLIED BETWEEN CONSTRUCTION OPERATIONS ON SOIL THAT WILL NOT BE GRADED OR REWORKED FOR 21 DAYS OR GREATER. THESE IDLE AREAS SHALL BE SEEDED WITHIN 7 DAYS AFTER GRADING.

7. THE SEEDBED SHOULD BE PULVERIZED AND LOOSE TO PROVIDE THE SUCCESS OF ESTABLISHING VEGETATION. TEMPORARY SEEDING SHALL NOT BE POSTPONED IF IDEAL SEEDBED PREPARATION IS NOT POSSIBLE.

8. SOIL AMENDMENTS--TEMPORARY VEGETATION SEEDING RATE SHALL ESTABLISH ADEQUATE STANDS OF VEGETATION WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. BASE RATE FOR LIME AND FERTILIZER SHALL BE USED.

9. SEEDING METHOD--SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SPREADER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. WHEN FEASIBLE, SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPED INTO PLACE USING A ROLLER OR CULTIPACKER. IF HYDROSEEDING IS USED, THE SEED AND FERTILIZER WILL BE MIXED ON SITE, AND THE SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.
10. SLOPES STEEPER THAN 3:1 WILL REQUIRE EROSION CONTROL BLANKETS.
    - FULL SOIL CONTACT WITH THE ROLLED EROSION CONTROL PRODUCTS (RECP)
    - ROCKS, CLODS OR OTHER OBSTRUCTIONS MUST BE REMOVED TO ENSURE COMPLETE DIRECT CONTACT WITH SOIL.
    - IF APPLYING SEEDS OR UTILIZING RECPS IN CONJUNCTION WITH VEGETATION ESTABLISHMENT, SEEDBED SHOULD BE PREPARED BY LOOSENING THE TOP 2 INCHES OF TOPSOIL.
    - SEED THE AREA BEFORE BLANKET INSTALLATION FOR EROSION CONTROL AND VEGETATION. SEEDING AFTER MAT INSTALLATION IS OFTEN SPECIFIED FOR TURF REINFORCEMENT. WHEN SEEDING PRIOR TO BLANKET INSTALLATION, ALL CHECK SLOTS AND OTHER ARES DISTURBED DURING INSTALLATION MUST BE RE-SEEDED. WHERE SOIL FILLING IS SPECIFIED, SEED THE MATTING AND THE ENTIRE DISTURBED AREA AFTER INSTALLATION AND PRIOR TO FILLING THE MAT WITH SOIL.
    - U-SHAPED WIRE STAPLES, METAL GEOTEXTILE STAKE PINS, OR TRIANGULAR WOODEN STAKES CAN BE USED TO ANCHOR MATS AND BLANKETS TO THE GROUND SURFACE.
    - WIRE STAPLES AND METAL STAKES SHOULD BE DRIVEN FLUSH TO THE SOIL SURFACE.
    - ALL ANCHORS SHOULD BE 6 INCHES TO 18 INCHES LONG AND HAVE SUFFICIENT GROUND PENETRATION TO RESIST PULLOUT. LONGER ANCHORS MAY BE REQUIRED FOR LOOSE SOILS.
    - WHEN INSTALLING ON SLOPES – CONSULT THE MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION. IN GENERAL, THESE WILL BE AS FOLLOWS:
      a. BEGIN AT THE TOP OF THE SLOPE AND ANCHOR THE BLANKET IN A 6-INCH DEEP BY 6 INCH WIDE TRENCH. BACKFILL TRENCH AND TAMP EARTH FIRMLY.
      b. UNROLL BLANKET DOWN SLOPE IN THE DIRECTION OF WATER FLOW.
      c. OVERLAP THE EDGES OF ADJACENT PARALLEL ROLLS 2 INCHES TO 3 INCHES AND STAPLE EVERY 3 FEET.
      d. WHEN BLANKETS MUST BE SPLICED, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH A 6 INCH OVERLAP. STAPLE THROUGH THE OVERLAPPED AREA, APPROXIMATELY 12 INCHES APART.
      e. LAY BLANKETS LOOSELY AND MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
      f. STAPLE BLANKETS SUFFICIENTLY TO ANCHOR BLANKET AND MAINTAIN CONTACT WITH SOIL. STAPLES SHALL BE PLACED DOWN THE CENTER AND STAGGERED WITH THE STAPLES PLACED ALONG THE EDGES.
    - BLANKETS AND MATS MUST BE REMOVED AND DISPOSED OF PRIOR TO APPLICATION OF PERMANENT SOIL STABILIZATION MEASURES.



MULCHING TEMPORARY SEEDING

1. APPLICATIONS OF TEMPORARY SEEDING SHALL INCLUDE MULCH WHICH SHALL BE APPLIED DURING OR IMMEDIATELY AFTER SEEDING. SEEDINGS MADE DURING OPTIMUM SEEDING DATES ON FAVORABLE VERY FLAT SOIL CONDITIONS MAY NOT NEED MULCH TO ACHIEVE ADEQUATE STABILIZATION.

2. MATERIALS:
    - HYDROSEEDERS--IF WOOD-CELLULOSE FIBER IS USED, IT SHALL BE USED AT 2,000 LB. PER ACRE OR 46 LB. PER 1,000 SQUARE FEET.

COMPOST FILTER SOCK

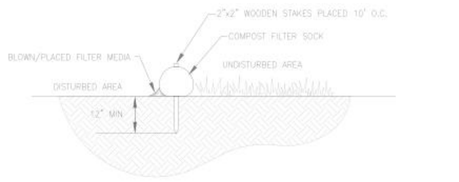
1. MATERIALS – COMPOST USED FOR FILTER SOCKS SHALL BE WEED, PATHOGEN AND INSECT FREE AND FREE OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH. THEY SHALL BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER AND CONSIST OF A PARTICLES RANGING FROM 3/8" TO 2".
2. FILTER SOCKS SHALL BE 3 OR 5 MIL CONTINUOUS, TUBULAR, HDPE 3/8" KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST PASSING THE ABOVE SPECIFICATIONS FOR COMPOST PRODUCTS.

INSTALLATION:

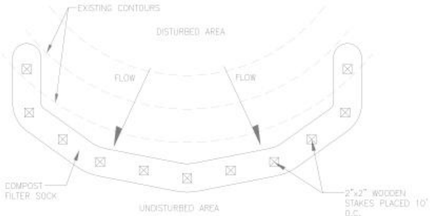
3. FILTER SOCKS WILL BE PLACED ON A LEVEL LINE ACROSS SLOPES, GENERALLY PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREA. ON SLOPES APPROACHING 2:1, ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND AS NEEDED MID-SLOPE.
4. FILTER SOCKS INTENDED TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE, SHALL BE SEEDED AT THE TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION.
5. FILTER SOCKS ARE NOT TO BE USED IN CONCENTRATED FLOW SITUATIONS OR IN RUNOFF CHANNELS.

MAINTENANCE:

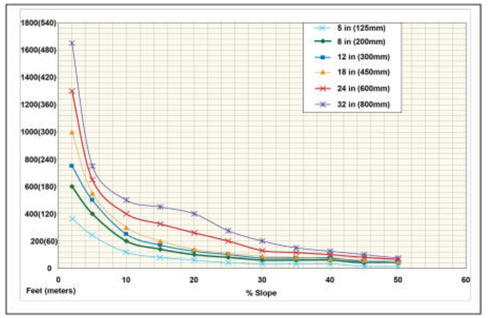
6. ROUTINELY INSPECT FILTER SOCKS AFTER EACH SIGNIFICANT RAIN, MAINTAINING FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES.
7. REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTER SOCKS WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE PRACTICE.
8. WHERE THE FILTER SOCK DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
9. REMOVAL – FILTER SOCKS WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED IN SUCH AS WAY AS TO FACILITATE AND NOT OBSTRUCT SEEDINGS.



ELEVATION VIEW



FILTREXX CFS SIZING CHART



FILTREXX CFS MESH SPECIFICATIONS

Material Type	NATURAL ORIGINAL (Cotton Fiber)	NATURAL PLUS (Wood Fiber)	BASIC (5 mil High Density Polyethylene HDPE)	BASIC PLUS (Multi-Filament Polypropylene MFPP)	DURABLE (Multi-Filament Polypropylene MFPP)	ORIGINAL / DURABLE PLUS / DURASOCK HD (Multi-Filament Polypropylene MFPP)	EXTREME (Multi-Filament Polypropylene MFPP)
Material Characteristic	Biodegradable	Biodegradable	Photodegradable	Photodegradable	Photodegradable	Photodegradable	Photodegradable
Design Diameters	5 in (125mm), 8 in (200mm), 12 in (300mm)	5 in (125mm), 8 in (200mm), 12 in (300mm)	8 in (200mm), 12 in (300mm), 18 in (400mm)	8 in (200mm), 12 in (300mm), 18 in (400mm), 24 in (600mm), 32 in (800mm)	5 in (125mm), 8 in (200mm), 12 in (300mm), 18 in (400mm), 24 in (600mm), 32 in (800mm)	5 in (125mm), 8 in (200mm), 12 in (300mm), 18 in (400mm), 24 in (600mm)	8 in (200mm), 12 in (300mm)
Mesh Opening	1/8 in (3mm)	1/8 in (3mm)	3/8 in (10mm)	3/8 in (10mm)	1/8 in (3mm)	1/8 in (3mm)	1/16 in (1.5mm)
Tensile Strength (ASTM D4595)[1]	MD: 193 lbs TD: 158 lbs	MD: 210 lbs TD: 289 lbs	MD: 211 lbs TD: 79 lbs	MD: 236 lbs TD: 223 lbs	MD: 545 lbs TD: 226 lbs	MD: 670 lbs TD: 423 lbs	MD: 1062 lbs TD: 797 lbs
% Original Strength from Ultraviolet Exposure (ASTM G-155)	ND	ND	23% at 1000 hr	100% at 1000 hr	100% at 1000 hr	100% at 1000 hr	100% at 1000 hr
Functional Longevity/ Project Duration[2]	up to 12 months[3]	up to 18 months[4]	up to 4 yr	up to 4 yr	up to 5 yr	up to 5 yr	up to 5 yr

[1] Tensile Strength is based on 12" diameter using ASTM D4595. See Filtrexx TechLink #3342 for full tensile strength testing.
[2] Functional longevity ranges are estimates only. Site-specific environmental conditions may result in significantly shorter or longer time periods.
[3] Data based on Caltrans research and specifications
[4] See TechLink #3339 for research & testing

REGISTERED PROFESSIONAL ENGINEER
MAHER M. ZEIN
No. 73475
Exp: 12/31/25
CIVIL
STATE OF CALIFORNIA

ISSUED FOR PERMIT

REV	DATE	DRAWN	CHECKED	PRJ. APV.	SOC APV.	ENG. FILE NO.	DESCRIPTION	WOA
E	05/07/24	CJ	MZ	KS	JY	E17031	ISSUED FOR PERMIT	92671.000
D	04/22/24	CJ	MZ	KS	JY	E17031	ISSUED FOR CLIENT REVIEW	92671.000
C	04/17/24	CJ	MZ	KS	JY	E17031	ISSUED FOR REVIEW	92671.000
B	04/05/24	CJ	MZ	KS	JY	E17031	ISSUED FOR REVIEW	92671.000

DESIGNED: J. HEMME 04/22/24
DRAWN: C. JOHNSON 04/22/24
CHECKED: M. ZEIN 04/22/24
PROJ. APV.: K. SWANSON 05/07/24
SOC. ENG. APV.: J. YUAN 05/07/24
ENG. FILE NO: E17031
WOA: 92671.000

SoCalGas.

HONOR RANCHO STORAGE FIELD
COMPRESSOR MODERNIZATION (HRCM)
EROSION AND SEDIMENT CONTROL
NOTES AND DETAILS

28300 BRADY PARKWAY SANTA CLARITA

DWG CLASS: 50 | DWG UNIT: 107
SCALE: AS NOTED
DRAWING NUMBER: 34005-7115-D-CIV
REV: E

COMPOST FILTER SOCK–CONTINUED

FILTREXX CFS DESIGN AND PERFORMANCE SPECIFICATIONS

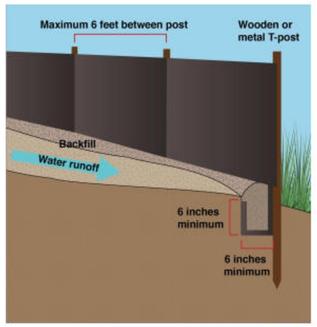
Design Diameter / Design & Performance	5 in (125mm)	8 in (200mm)	12 in (300mm)	18 in (450mm)	24 in (600mm)	32 in (800mm)	Testing Lab/ Reference	Publication(s)
Effective Height	4 in (100mm)	6.5 in (160mm)	9.5 in (240mm)	14.5 in (360mm)	19 in (480mm)	26 in (650mm)	The Ohio State University, Ohio Agricultural Research and Development Center	Transactions of the American Society of Agricultural & Biological Engineers, 2006
Effective Circumference	15 in (380mm)	25 in (620mm)	38 in (960mm)	57 in (1450mm)	75 in (1900mm)	100 in (2500mm)		
Density (when filled)	7.0 lbs. (12 kg/m)	13 lbs/ft (20 kg/m)	32 lbs/ft (50 kg/m)	67 lbs/ft (100 kg/m)	133 lbs/ft (200 kg/m)	200 lbs/ft (300 kg/m)	Soil Control Lab, Inc	
Air Space	25%	20%	20%	20%	20%	20%	Soil Control Lab, Inc	
Maximum continuous length	unlimited	unlimited	unlimited	unlimited	unlimited	unlimited		
Staking Requirement	10 ft (3m)	10 ft (3m)	10 ft (3m)	10 ft (3m)	10 ft (3m)	10 ft (3m)		
Maintenance Requirement (sediment accumulation removal at 1/2 height)	2 in (50mm)	3.25 in (80mm)	4.75 in (120mm)	7.25 in (180mm)	9.5 in (240mm)	13 in (325mm)		
Initial Maintenance Requirement based on Rainfall-Runoff*	13 in (33 cm); 665 L/linear m	22 in (55 cm); 1109 L/linear m	32 in (80 cm); 1388 L/linear m	42 in (105 cm); 1825 L/linear m	64 in (160 cm); 2776 L/linear m	86 in (215 cm); 3885 L/linear m	The University of Georgia & Auburn University	
Functional Longevity**	6 mo – 5 yr	6 mo – 5 yr	6 mo – 5 yr	6 mo – 5 yr	6 mo – 5 yr	6 mo – 5 yr		
Maximum Slope Length (<2%)	360 ft (110m)	600 ft (185m)	750 ft (229m)	1000 ft (305m)	1300 ft (396m)	1650 ft (500m)	The Ohio State University, Ohio Agricultural Research and Development Center	Filtrexx Design Tool, Filtrexx Library #301, Filtrexx Tech Link #3304 & #3311
Hydraulic Flow Through Rate	4.5 gpm/ft (56 L/min/m)	7.5 gpm/ft (94 L/min/m)	11.3 gpm/ft (141 L/min/m)	15.0 gpm/ft (188 L/min/m)	22.5 gpm/ft (281 L/min/m)	30.0 gpm/ft (374 L/min/m)	The Ohio State University, Ohio Agricultural Research and Development Center; University of Guelph, School of Engineering' Watershed Research Group	Filtrexx Tech Link #3311 & #3313, #3300; American Society of Agricultural & Biological Engineers Meeting Proceedings, 2006; Second Interagency Conference on Research in Watersheds, 2006
P Factor (RUSLE)	0.1–0.32	0.1–0.32	0.1–0.32	0.1–0.32	0.1–0.32	0.1–0.32	USDA ARS Environmental Quality Lab/ University of Georgia	American Society of Agricultural & Biological Engineers Meeting Proceedings, 2006
Sediment Storage Capacity***	104 cu. in. (1710cc)	174 cu. in (2850cc)	396 cu. in (6490cc)	857 cu. in (14040cc)	1631 cu. in (26840cc)	2647 cu. in (43377 cc)		Filtrexx Tech Link #3314
Total Solids Removal	98%	98%	98%	98%	98%	98%	Soil Control Lab, Inc	International Erosion Control Association, 2006
Total Suspended Solids Removal	78%	78%	78%	78%	78%	78%	USDA ARS Environmental Quality Lab	Filtrexx Tech Link #3300; American Society of Agricultural & Biological Engineers Meeting Proceedings, 2006
Turbidity Reduction	63%	63%	63%	63%	63%	63%	USDA ARS Environmental Quality Lab	Filtrexx Tech Link #3300; American Society of Agricultural & Biological Engineers Meeting Proceedings, 2006
Clay (<0.002mm) Removal	65%	65%	65%	65%	65%	65%	USDA ARS Environmental Quality Lab	Filtrexx Tech Link
Silt (0.002–0.05mm) Removal	64%	64%	64%	64%	64%	64%	USDA ARS Environmental Quality Lab	Filtrexx Tech Link
Other Recommended Uses	Slope Interruption	Inlet Protection, Ditch Protection, Slope Interruption	Inlet protection, Ditch Protection, Concrete Washout, Filtration System, Slope Interruption	Ditch Protection, Concrete Washout, Filtration System	Ditch Protection, Concrete Washout, Filtration System	Ditch Protection, Concrete Washout, Filtration System		

* Based on rainfall intensity of 12.5 cm (5 in)/hr applied to a bare clay loam soil at a 10% slope; runoff flow rate of 188 ml/sec/linear m (0.52 gpm/linear ft); and mean runoff volume of 230 L/m2 (6.3 g/ft2).
** Functional Longevity is dependent on mesh material type, UV exposure, freeze/thaw frequency, region of US/Canada, runoff-sediment frequency/duration/loading, and adherence to specified maintenance requirement. Functional longevity ranges are estimates only. Site-specific environmental conditions may result in significantly shorter or longer time periods.
*** Sediment Storage Capacity = sediment accumulation behind (directly upslope) + within the device.

SILT FENCE

DESCRIPTION

SILT FENCES ARE TEMPORARY LINEAR SEDIMENT CONTROL BARRIERS MANUFACTURED OF A WOVEN GEOTEXTILE THAT ARE DESIGNED TO ALLOW WATER TO PERMEATE WHILE RETAINING COURSE SEDIMENT THROUGH SEDIMENTATION. SILT FENCES ACT BY INTERCEPTING AND SLOWING THE FLOW OF SEDIMENT LADEN RUNOFF AND ALLOWING SEDIMENT TO SETTLE FROM THE RUNOFF BEFORE WATER LEAVES THE CONSTRUCTION SITE BOUNDARIES.



SPECIFICATIONS FOR SILT FENCE CONSTRUCTION

1. DEVELOP THE LENGTH OF EACH REACH SO THAT THE CHANGE IN BASE ELEVATION ALONG THE REACH DOES NOT EXCEED ONE–THIRD OF THE BARRIER HEIGHT; EACH REACH SHOULD NOT EXCEED 500 FEET MAXIMUM WITH THE ENDS TURNED UPSLOPE IN A J–HOOK FASHION.
2. THE MAXIMUM LENGTH OF SLOPE DRAINING TO THE SILT FENCE SHOULD BE 100 FEET OR LESS.
3. FOR AREAS WITH MODERATE SEDIMENT LOADS, STANDARD SILT FENCE MAY BE USED. FOR AREAS AFFECTED BY HIGH WINDS AND/OR HEAVIER SEDIMENT LOADS, HEAVY DUTY SILT FENCE (WIRE BACKED) IS ADVISED.
4. J–HOOK INSTALLATION CAN BE UTILIZED FOR BREAKING UP SEDIMENTATION AREAS TO SMALLER SURFACE AND REDUCE PONDING ACROSS LARGER DISTURBED SLOPES.
5. ALL SILT FENCE MUST BE INSTALLED ON LEVEL CONTOURS
6. EXCAVATE A TRENCH APPROXIMATELY 6 INCHES WIDE AND 6 INCHES DEEP TO PLACE THE BOTTOM OF THE SILT FENCE INTO, ENSURING THAT IT IS NOT WIDER OR DEEPER THAN NECESSARY.
7. KEY–IN OR BURY THE BOTTOM OF SILT FENCE FABRIC IN THE TRENCH AND TAMP DOWN SOIL INTO PLACE. IF IT IS NOT FEASIBLE TO TRENCH ALONG THE SLOPE CONTOUR, USE SANDBAGS OR BACKFILLING TO KEY IN THE BOTTOM OF THE FABRIC.
8. INSTALL FENCE POSTS AT LEAST 12 INCHES BELOW GRADE ON THE DOWN SLOPE SIDE OF TRENCH. THESE POSTS CAN BE METAL OR WOODEN. IF WOODEN THESE STAKES SHALL BE STRUCTURALLY SOUND. IF METAL, TOP OF STAKE SHALL BE PROTECTED WITH CAPS.
9. TRENCH SHOULD BE BACKFILLED WITH NATIVE MATERIAL AND COMPACTED OR SECURED WITH GRAVEL BAGS IF COMPACTION IS NOT FEASIBLE.
10. WHEN JOINING SEPARATE ROLLS OF SILT FENCE, ADJOINING SEAMS SHOULD BE SPLICED TOGETHER AT A SUPPORT POST WITH A MINIMUM OF 6 INCH OVERLAP WITH BOTH ENDS SECURED. WIRE USED TO SECURE THE TOPS OF STAKES TOGETHER SHOULD BE AT LEAST 9–GAUGE OR HEAVIER.
11. IF STAPLES ARE USED TO JOIN FABRIC TO SUPPORT POSTS, THEY SHOULD BE A MINIMUM OF 1.75 INCHES LONG AND MADE OF 15–GAUGE OR HEAVIER WIRE.
12. IF POSSIBLE, AN UNDISTURBED OR STABILIZED AREA SHOULD BE LEFT IMMEDIATELY DOWN SLOPE FROM THE FENCE.

LIMITATIONS

1. SILT FENCE SHALL NOT BE USED TO DIVERT WATER
2. SILT FENCES SHALL NOT BE CONSIDERED FOR INSTALLATION BELOW OR ON SLOPES STEEPER THAN A 1:1 GRADIENT OR FOR SOILS WHICH CONTAIN HIGH NUMBERS OF ROCKS OR LOOSE DIRT CLODS UNLESS THE ROCKS ARE REMOVED AND ADDITIONAL CONTROLS ARE USED UPSLOPE (I.E. ROCKFALL NETTING).
3. SILT FENCES CANNOT BE USED IN AREAS OF CONCENTRATED FLOW
4. INEFFECTIVE UNLESS TRENCHED AND KEYED IN ACCORDING TO THE INSTALLATION GUIDELINES.
5. SILT FENCE SHOULD NOT BE USED ON SLOPES PRONE TO LANDSLIDES OR SIGNIFICANT EROSION

OTHER INSTALLATION TYPES

1. WIRE BACKED
   - WIRE SIDE SHOULD BE FACING THE DOWNWARD SIDE OF THE SLOPE.
   - INSTALLATION USING METAL T–POSTS WITH SAFETY CAPS AS STAKES IS RECOMMENDED
   - CANNOT BE INSTALLED USING STATIC SLICING
2. J–HOOK INSTALLATION
   - J–HOOKING DESCRIBES SILT–FENCE INSTALLATION THAT HAS MULTIPLE UPTURNED ENDS TO BREAKUP LONG RUNS OF FENCE AND PROVIDE MULTIPLE STORAGE AREAS AS RETENTION AREAS.
   - INSTALLATION SHOULD BE SECURED WITH GRAVEL BAGS AT ENDS.

MAINTENANCE

1. PERFORM ROUTINE INSPECTIONS ON SILT FENCE WEEKLY, PRIOR TO FORECASTED RAIN EVENTS, DAILY DURING EXTENDED RAIN EVENTS. INITIATE REPAIRS RELATED TO A STORM EVENT WITHIN 72 HOURS OF IDENTIFYING THE PROBLEM OR AS SOON AS FEASIBLE BUT PRIOR TO THE NEXT FORECASTED PRECIPITATION EVENT, PER THE CGP FOR SWPPP PROJECTS.
2. REPAIR OR REPLACE SPLIT, TORN, SLUMPING, UNDERCUT OR WEATHERED MATERIAL. NOTE THAT THE GEOTEXTILE MAY NEED TO BE REPLACED WHEN INSTALLATION IS NEEDED FOR LONGER THAN 5 TO 8 MONTHS DUE TO DEGRADATION AND LIMITED DURABILITY.
3. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES ONE THIRD OF THE BARRIER HEIGHT. REMOVED SEDIMENT SHALL BE INCORPORATED IN THE PROJECT AT APPROPRIATE LOCATIONS OR DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REQUIREMENTS.

REMOVAL

1. SILT FENCE SHOULD BE LEFT IN PLACE UNTIL THE UPGRADIENT AREA IS STABILIZEDOR IN THE PROCESS OF STABILIZATION (I.E. HYDROSEEDING).
2. FOLLOWING THE REMOVAL OF THE BMP, FILL AND COMPACT POST HOLES, ANCHOR TRENCH, REMOVE SEDIMENT ACCUMULATION, RETURN TO ORIGINAL LINE AND GRADE, AND STABILIZE DISTURBED AREAS.

INLET PROTECTION

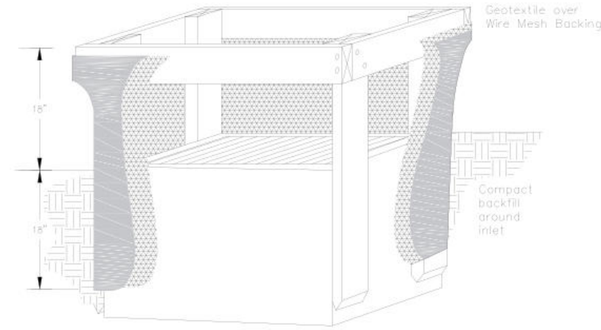
DESCRIPTION

A BMP OR COMBINATION OF BMPS USED AT STORM DRAINS OR OTHER DRAINAGE INLETS TO PROTECT AGAINST THE DISCHARGE OF SEDIMENT–LADEN STORM WATER AND NON–STORM WATER RUNOFF FROM CONSTRUCTION OR OPERATIONAL AND MAINTENANCE ACTIVITIES. THE BMP SLOWS OR PONDS THE STORM WATER FLOW, GIVING THE SEDIMENT TIME TO SETTLE OUT BEFORE DISCHARGE TO THE STORM DRAIN. IT IS FOR USE AT ALL DOWNSTREAM STORM DRAIN AND/OR DRAINAGE INLETS THAT HAVE THE POTENTIAL TO BE IMPACTED BY CONSTRUCTION ACTIVITIES, SITE STORMWATER RUN–OFF, OR NON–STORMWATER DISCHARGES.

DESIGN

1. IDENTIFY ALL DOWNSTREAM STORM DRAIN INLETS OR DRAINAGES THAT HAVE THE POTENTIAL TO RECEIVE RUNOFF OR NON–STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES.
2. DRAINAGE AREAS TO EACH CONTROL SHOULD NOT EXCEED 1 ACRE AND AREA SHOULD BE PROVIDED AROUND THE INLET TO ALLOW PONDING WITHOUT FLOODING.
3. INSTALLATION TYPES:
   - SILT FENCE – FOR USE IN INTERNAL AREAS WITH LESS THAN 5% SLOPE AND FOR SHEET FLOWS. NOT FOR USE WITHIN ACTIVE ROADWAYS.
   - GRAVEL BAG AND FILTER MEDIA – FOR USE ON SLOPED AND PAVED STREETS AND FOR SHEET FLOW.
   - PROPRIETARY TEMPORARY GEOTEXTILE INSERT – VARIOUS PRODUCTS PROVIDE DIFFERENT FEATURES, INCLUDING DIFFERENT POLLUTION REDUCTION AND SIZING. REFER TO MANUFACTURER SPECIFICATIONS FOR DESIGN AND INSTALLATION REQUIREMENTS. MOST INSERTS FIT BENEATH THE GRATE OF A DROP BOX INLET OR OUTSIDE A CURB INLET AND ARE FASTENED TO THE GRATE OR CURB.

SECTION



INSTALLATION

1. SILT FENCE – DO NOT PLACE FABRIC BENEATH INLET GRATE. REFER TO SILT FENCE DETAIL FOR ADDITIONAL SPECIFICATIONS.
   a. EXCAVATE A TRENCH APPROXIMATELY 6 INCH WIDE BY 6 INCH DEEP ALONG THE PERIMETER OF THE INLET.
   b. SECURE SILT FENCE WITH WOOD STAKES A MAXIMUM OF 3 FEET APART, DRIVING AT LEAST 18 INCHES INTO THE GROUND OR 12 INCHES BELOW THE BOTTOM OF THE TRENCH.
   c. LAY FABRIC ALONG THE TRENCH AND UP THE STAKES. MAXIMUM SILT FENCE HEIGHT IS 24 INCHES.
   d. STAPLE THE FILTER FABRIC TO WOODEN STAKES USING HEAVY–WIRE DUTY STAPLES AT LEAST 1 INCH IN LENGTH.
   e. BACKFILL WITH GRAVEL OR COMPACTED EARTH AROUND PERIMETER.
2. GRAVEL BAG AND FILTER MEDIA
   a. CONSTRUCT AROUND STORM DRAIN INLET ON PAVED STREETS.
   b. LEAVE ROOM UPSTREAM OF BARRIER TO ALLOW ACCUMULATED WATER TO POND AND SEDIMENT TO SETTLE.
   c. PLACE FILTER FABRIC FOLLOWED BY SEVERAL LAYERS OF GRAVEL BAGS, OVERLAP THE BAGS AND PACK TIGHTLY TOGETHER.
3. PROPRIETARY TEMPORARY GEOTEXTILE INSERT – REFER TO MANUFACTURER INSTRUCTION FOR INSTALLATION.
   a. SPACES AND GRATES SHOULD BE SEALED TO PREVENT SEEPAGE OF SEDIMENT–LADEN WATER.
   b. MOST MUNICIPALITIES REQUIRE REMOVAL OF BMPS FROM STORM DRAIN INLETS WITHIN THEIR RIGHT OF WAY WITHIN 72 HOURS OF A RAIN EVENT (E.G. CERTAIN MUNICIPALITIES REQUIRE REMOVAL OF INLET PROTECTION PRIOR TO FORECASTED PRECIPITATION EVENTS).
   c. REMOVE INLET PROTECTION AT THE END OF THE CONSTRUCTION PERIOD OR WHEN THE INLET IS NO LONGER IMPACTED BY CONSTRUCTION ACTIVITY.
4. FOR ADDITIONAL DETAIL REFER TO SECTION 13–6.03C IN THE STANDARD SPECIFICATIONS FOR THE STATE OF CALIFORNIA 2018 OR MORE RECENT VERSION.

LIMITATIONS

1. INLET PROTECTION SHOULD NOT BE USED IN AREAS WHERE RUNOFF WILL RESULT IN PONDING AND/OR FLOODING INTO ROAD TRAFFIC OR ONTO ERODIBLE SURFACES OR SLOPS, OR OVERFLOW UNTO SIDEWALKS.
2. INLET PROTECTION SHOULD NOT BE USED IN HIGH FLOW CONDITIONS AS A SINGULAR BMP. ADJUNCT ADDITIONAL PROJECT BMPS, SUCH AS SEDIMENT TRAPS SHOULD BE USED IN CONJUNCTION.
3. FREQUENT MAINTENANCE IS REQUIRED.

MAINTENANCE

1. PERFORM ROUTINE INSPECTIONS ON STORM DRAIN INLET PROTECTION WEEKLY, PRIOR TO FORECASTED RAIN EVENTS, DAILY DURING EXTENDED RAIN EVENTS, AND AFTER THE CONCLUSION OF RAIN EVENTS. INITIATE REPAIRS RELATED TO A STORM EVENT WITHIN 72 HOURS OF IDENTIFYING THE PROBLEM OR AS SOON AS FEASIBLE BUT PRIOR TO THE NEXT FORECAST PRECIPITATION EVENT, PER THE CGP FOR SWPPP PROJECTS.
2. REPAIR ANY HOLES OR GASHES IN BAGS, SILT FENCE, OR FILTER FABRIC AS APPROPRIATE. REPLACE ANY BROKEN GRAVEL BAGS, IF USED.
3. INSPECT BARRIERS FOR SEDIMENT ACCUMULATION AND REMOVE SEDIMENT WHEN ACCUMULATION REACHES ONE–THIRD OF THE BARRIER HEIGHT. REMOVED SEDIMENT SHALL BE INCORPORATED IN THE PROJECT AT APPROPRIATE LOCATIONS OR DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REQUIREMENTS.

ISSUED FOR PERMIT

REV.	DATE	DRAWN	CHECKED	PRJ. APV.	SCG APV.	ENG. FILE NO.	DESCRIPTION	WOA	BY	DATE
									DESIGNED: J. HEMME	04/22/24
									DRAWN: C. JOHNSON	04/22/24
E	05/07/24	CJ	MZ	KS	JY	E17031	ISSUED FOR PERMIT	92671.000	CHECKED: M. ZEIN	04/22/24
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									WOA: 92671.000	

SoCalGas.

DWG CLASS: 50 | DWG DIST: 107

SCALE: AS NOTED

HONOR RANCHO STORAGE FIELD COMPRESSOR MODERNIZATION (HRCM) EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

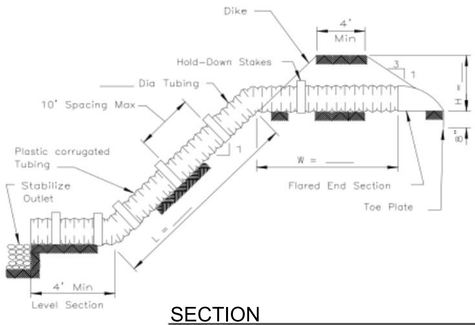
28300 BRADY PARKWAY SANTA CLARITA

DRAWING NUMBER: 34005–7116–D–CIV REV: E

TEMPORARY SLOPE DRAIN

DESCRIPTION

A SLOPE DRAIN IS A PIPE USED TO INTERCEPT AND DIRECT SURFACE RUNOFF OR GROUNDWATER INTO A STABILIZED WATERCOURSE, TRAPPING DEVICE, OR STABILIZED AREA. SLOPE DRAINS ARE TYPICALLY USED WITH DIVERSION BERMS AND DRAINAGE DITCHES TO INTERCEPT AND DIRECT SURFACE FLOW AWAY FROM SLOPE AREAS TO PROTECT CUT OR FILL SLOPES. SLOPE DRAINS PREVENT STORM WATER FROM FLOWING DIRECTLY DOWN THE SLOPE BY CONFINING THE RUNOFF INTO AN ENCLOSED PIPE OR CHANNEL. THE SLOPE DRAIN MAY BE INSTALLED AS A RIGID PIPE, SUCH AS CORRUGATE METAL, A FLEXIBLE CONDUIT, OR A LINED TERRACE DRAIN WITH A TOP OF A SLOPE INLET AND A BOTTOM OF A SLOPE OUTLET.



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SPECIFICATIONS FOR TEMPORARY SLOPE PIPE CONSTRUCTION

1. DRAINAGE AREA TO TEMPORARY SLOPE PIPE SHALL NOT EXCEED 10 ACRES.
2. CONDUIT MATERIAL SHALL BE HEAVY DUTY FLEXIBLE MATERIAL SUCH AS NON PERFORATED CORRUGATED PLASTIC TUBING OR SPECIALLY DESIGN FLEXIBLE TUBING.
3. THE SOIL MATERIAL AROUND THE PIPE SHALL BE HAND COMPACTED IN THE 6" LIFTS TO FILL ALL VOIDS IN THE TUBING CORRUGATIONS.
4. THE PIPES ARE SIZED TO CONVEY AT LEAST THE PEAK FLOW OF A TEN YEAR STORM AND ARE TO HAVE A MINIMUM DIAMETER OF 12 INCHES.
5. THE PIPE IS TO BE INSTALLED PERPENDICULAR TO SLOPE CONTOURS.
6. SECURELY ANCHOR AND STABILIZE PIPE APPURTENANCES INTO SOIL.
7. CHECK AND ENSURE THAT PIPE CONNECTIONS ARE WATERTIGHT.

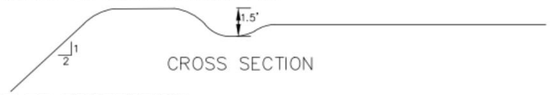
MAINTENANCE

1. PERFORM ROUTINE INSPECTIONS ON SLOPE DRAINS WEEKLY, PRIOR TO FORECASTED RAIN EVENTS, AND AFTER THE CONCLUSION OF RAIN EVENTS. INITIATE REPAIRS RELATED TO A STORM EVENT WITHIN 72 HOURS OF IDENTIFYING THE PROBLEM OR AS SOON AS FEASIBLE BUT PRIOR TO THE NEXT FORECAST PRECIPITATION EVENT, PER THE CGP FOR SWPPP PROJECTS.
2. INSPECT BMPS SUBJECT TO NON-STORMWATER DISCHARGES DAILY WHILE THE DISCHARGES OCCUR. MINIMIZE STANDING WATER BY REMOVING SEDIMENT BLOCKAGES AND FILLING DEPRESSIONS.
3. INSPECT OUTLET FOR EROSION AND DOWNSTREAM SCOUR. IF ERODED, REPAIR DAMAGE AND INSTALL ADDITIONAL ENERGY DISSIPATION MEASURES. IF DOWNSTREAM SCOUR IS OCCURRING, IT MAY BE NECESSARY TO REDUCE FLOWS BEING DISCHARGED INTO THE CHANNEL UNLESS OTHER PREVENTATIVE MEASURES ARE IMPLEMENTED.
4. INSERT INLET FOR CLOGGING OR UNDERCUTTING. REMOVE DEBRIS FROM INLET TO MAINTAIN FLOWS. REPAIR UNDERCUTTING AT INLET AND IF NEEDED, INSTALL FLARED SECTION OR RIPRAP AROUND THE INLET TO PREVENT FURTHER UNDERCUTTING.
5. INSPECT PIPES FOR LEAKAGE. REPAIR LEAKS AND RESTORE DAMAGED SLOPES.
6. INSPECT SLOPE DRAINAGE FOR ACCUMULATIONS OF DEBRIS AND SEDIMENT. REMOVE SEDIMENT FROM ENTRANCES AND OUTLETS AS REQUIRED. FLUSH DRAINS AS NECESSARY; CAPTURE AND SETTLE OUT SEDIMENT FROM DISCHARGE.
7. ENSURE WATER IS NOT PONDING ONTO INAPPROPRIATE AREAS 9E.G. ACTIVE TRAFFIC LANES, MATERIAL STORAGE AREAS, ETC.).
8. PIPE ANCHORS MUST BE CHECKED TO ENSURE THAT THE PIPE REMAINS ANCHORED TO THE SLOPE. INSTALL ADDITIONAL ANCHORS IF PIPE MOVEMENT IS DETECTED.

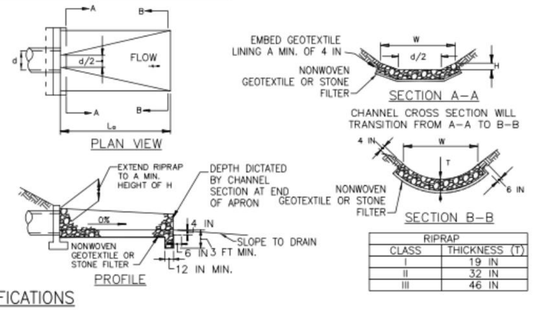
TEMPORARY DIVERSION BERM

1. DRAINAGE AREA TO BERM SHOULD NOT EXCEED 10 ACRES.
2. THE CHANNEL CROSS SECTION MAY BE PARABOLIC OR TRAPEZOIDAL. DISK THE BASE OF THE DIKE BEFORE PLACING FILL. BUILD THE DIKE 10% HIGHER THAN DESIGNED FOR SETTLEMENT. THE DIKE SHALL BE COMPACTED BY TRAVERSING WITH TRACKED EARTH-MOVING EQUIPMENT.
3. THE MINIMUM CROSS SECTION OF THE LEVEE OR DIKE WILL BE AS FOLLOWS:
   SHAPE: PARABOLIC DIKE TOP WIDTH: 4 FT HEIGHT 1.5 FT SIDE SLOPES: 2:1
   WHERE CONSTRUCTION TRAFFIC WILL CROSS, THE TOP WIDTH MAY BE MADE WIDER AND SIDE SLOPES FLATTER THAN SPECIFIED ABOVE.
4. THE GRADE MAY BE VARIABLE DEPENDING UPON THE TOPOGRAPHY, BUT MUST HAVE A POSITIVE DRAINAGE TO THE OUTLET AND BE STABILIZED TO BE NON-EROSIVE.
5. OUTLET RUNOFF ONTO A STABILIZED AREA.
6. DIVERSIONS SHALL BE SEEDED AND MULCHED IN ACCORDANCE WITH THE REQUIREMENTS IN PRACTICE STANDARDS TEMPORARY SEEDING AND MULCHING IN THIS SWPPP AND THE OEPA RAINWATER AND LAND DEVELOPMENT MANUAL. DIVERSIONS SHALL BE SEEDED AND MULCHED AS SOON AS THEY ARE CONSTRUCTED.

SPECIFICATIONS FOR TEMPORARY DIVERSION BERM



ROCK OUTLET PROTECTION



RIPRAP	
CLASS	THICKNESS (T)
I	19 IN
II	32 IN
III	46 IN

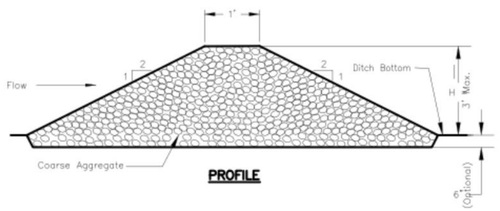
SPECIFICATIONS

1. RIPRAP AND STONE MUST CONFORM TO THE SPECIFIED CLASS.
2. USE NONWOVEN GEOTEXTILE AS SPECIFIED IN SECTION H-1 MATERIALS, AND PROTECT FROM PUNCTURING, CUTTING, OR TEARING. REPAIR ANY DAMAGE OTHER THAN AN OCCASIONAL SMALL HOLE BY PLACING ANOTHER PIECE OF GEOTEXTILE OVER THE DAMAGED PART OR BY COMPLETELY REPLACING THE GEOTEXTILE. PROVIDE A MINIMUM OF ONE FOOT OVERLAP FOR ALL REPAIRS AND FOR JOINING TWO PIECES OF GEOTEXTILE TOGETHER.
3. PREPARE THE SUBGRADE FOR GEOTEXTILE OR STONE FILTER (⅜ TO 1½ INCH STONE FOR 6 INCH MINIMUM DEPTH) AND RIPRAP TO THE REQUIRED LINES AND GRADES. COMPACT ANY FILL REQUIRED IN THE SUBGRADE TO A DENSITY OF APPROXIMATELY THAT OF THE SURROUNDING UNDISTURBED MATERIAL.
4. EXTEND GEOTEXTILE AT LEAST 6 INCHES BEYOND EDGES OF RIPRAP AND EMBED AT LEAST 4 INCHES AT SIDES OF THE RIPRAP.
5. CONSTRUCT RIPRAP OUTLET TO FULL COURSE THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO AVOID DISPLACEMENT OF UNDERLYING MATERIALS. PLACE STONE FOR RIPRAP OUTLET IN A MANNER THAT WILL ENSURE THAT IT IS REASONABLY HOMOGENOUS WITH THE SMALLER STONES AND SPALLS FILLING THE VOIDS BETWEEN THE LARGER STONES. PLACE RIPRAP IN A MANNER TO PREVENT DAMAGE TO THE STONE FILTER BLANKET OR GEOTEXTILE. HAND PLACE TO THE EXTENT NECESSARY.
6. WHERE NO ENDWALL IS USED, CONSTRUCT THE UPSTREAM END OF THE APRON SO THAT THE WIDTH IS TWO TIMES THE DIAMETER OF THE OUTLET PIPE, AND EXTEND THE STONE UNDER THE OUTLET BY A MINIMUM OF 18 INCHES.
7. CONSTRUCT APRON WITH 0% SLOPE ALONG ITS LENGTH AND WITHOUT OBSTRUCTIONS. PLACE STONE SO THAT IT BLENDS IN WITH EXISTING GROUND.
8. MAINTAIN LINE, GRADE, AND CROSS SECTION. KEEP OUTLET FREE OF EROSION. REMOVE ACCUMULATED SEDIMENT AND DEBRIS. AFTER HIGH FLOWS INSPECT FOR SCOUR AND DISLODGED RIPRAP. MAKE NECESSARY REPAIRS IMMEDIATELY.

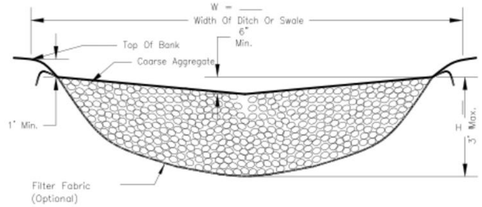
ROCK CHECK DAM

DESCRIPTION

ROCK CHECK DAMS ARE SMALL BARRIERS CONSTRUCTED OF GRAVEL BAGS OR OTHER SUITABLE MATERIALS, PLACED ALONG A CURB AND GUTTER OR ACROSS A SWALE OR DRAINAGE DITCH. ROCK CHECK DAMS CREATE SMALL POOLS AND REDUCE THE EFFECTIVE SLOPE OF THE CHANNEL REDUCING SCOUR AND EROSION BY REDUCING FLOW VELOCITY AND INCREASING RESIDENCE TIME WITHIN THE CHANNEL. CHECK DAMS PROMOTE SEDIMENT TRAPPING.



PROFILE



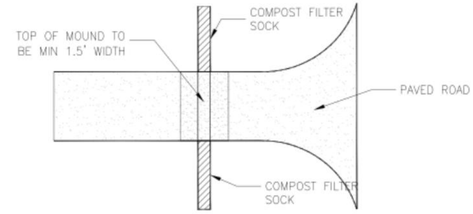
CROSS SECTION

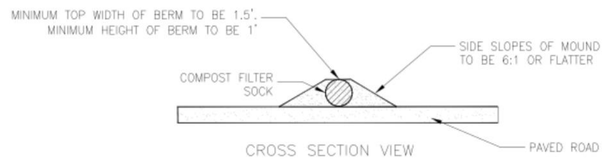
INSTALLATION

1. ROCK CHECK DAMS ARE USUALLY CONSTRUCTED OF 8 TO 12 INCH ROCK PLACED INDIVIDUALLY BY HAND OR MECHANICALLY, BUT NEVER DUMPED. THE ROCK USED SHOULD BE LARGE ENOUGH TO STAY IN PLACE GIVEN THE EXPECTED CHANNEL FLOW. ABUTMENTS SHOULD BE EXTENDED 18 INCHES INTO THE CHANNEL BANK. ROCK CAN BE GRADED SUCH THAT SMALLER DIAMETER ROCK (2 TO 4 INCHES) IS LOCATED ON THE UPSTREAM SIDE OF THE LARGER ROCK, INCREASING RESIDENCE TIME.
2. GRAVEL BAG AND SANDBAG CHECK DAMS ARE CONSTRUCTED BY STACKING BAGS ACROSS THE DITCH OR SWALE. TIGHTLY ABUT BAGS AND STACK IN A PYRAMID FASHION NO HIGHER THAN 3 FEET. UPPER ROWS SHALL OVERLAP JOINTS IN LOWER ROWS.

MAINTENANCE

1. PERFORM ROUTINE INSPECTIONS ON ROCK CHECK DAMS WEEKLY, PRIOR TO FORECASTED RAIN EVENTS, DAILY DURING EXTENDED RAIN EVENTS, AND AFTER THE CONCLUSION OF RAIN EVENTS. INITIATE REPAIRS RELATED TO A STORM EVENT WITHIN 72 HOURS OF IDENTIFYING THE PROBLEM OR AS SOON AS FEASIBLE BUT PRIOR TO THE NEXT FORECAST PRECIPITATION EVENT, PER THE CGP FOR SWPPP PROJECTS.
2. REPLACE MISSING, DAMAGED, OR DEGRADED ROCK, BAGS, ROLLS, ETC.
3. IF THE CHECK DAM IS USED AS A GRADE CONTROL STRUCTURE, SEDIMENT REMOVAL IS NOT REQUIRED AS LONG AS THE SYSTEM CONTINUES TO CONTROL THE GRADE.
4. SEDIMENT CAN BE RE-SUSPENDED DURING SUBSEQUENT STORMS OR REMOVAL OF THE CHECK DAM. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES ⅓ OF THE BARRIER HEIGHT, AND PRIOR TO PERMANENT SEEDING OR SOIL STABILIZATION. REMOVED SEDIMENT SHALL BE INCORPORATED IN THE PROJECT AT APPROPRIATE LOCATIONS OR DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REQUIREMENTS.
5. WATER SUITABLE FOR MOSQUITO PRODUCTION MAY STAND BEHIND CHECK DAMS, PARTICULARLY IS SUBJECTED TO NON-STORMWATER FLOWS. REMOVE STANDING WATER FROM THE DAM 72 HOURS AFTER ACCUMULATION.





DRIVEABLE GRAVEL BERM
(WATER BAR)
SCALE: NOT TO SCALE
C

CONSTRUCTION NOTES:

1. BERM SHALL BE CONSTRUCTED OUT OF AASHTO #1 COARSE MATERIAL.
2. COMPOST FILTER SOCK SHALL BE PLACED ON EITHER SIDE OF BERM AS DEPICTED ON THE PLAN SHEETS.

REGISTERED PROFESSIONAL ENGINEER
MAHER M. ZEIN
No. 73475
Exp: 12/31/25
CIVIL
STATE OF CALIFORNIA

ISSUED FOR PERMIT

REV	DATE	DRAWN	CHECKED	PRJ APV	SCG APV	ENG FILE NO	DESCRIPTION	WOA
E	05/07/24	CJ	MZ	KS	JY	E17031	ISSUED FOR PERMIT	92671.000
D	04/22/24	CJ	MZ	KS	JY	E17031	ISSUED FOR CLIENT REVIEW	92671.000
C	04/17/24	CJ	MZ	KS	JY	E17031	ISSUED FOR REVIEW	92671.000
B	04/05/24	CJ	MZ	KS	JY	E17031	ISSUED FOR REVIEW	92671.000

BY	DATE
DESIGNED: J. HEMME	04/22/24
DRAWN: C. JOHNSON	04/22/24
CHECKED: M. ZEIN	04/22/24
PROJ APV: K. SWANSON	05/07/24
SCG ENG APV: J. YUAN	05/07/24

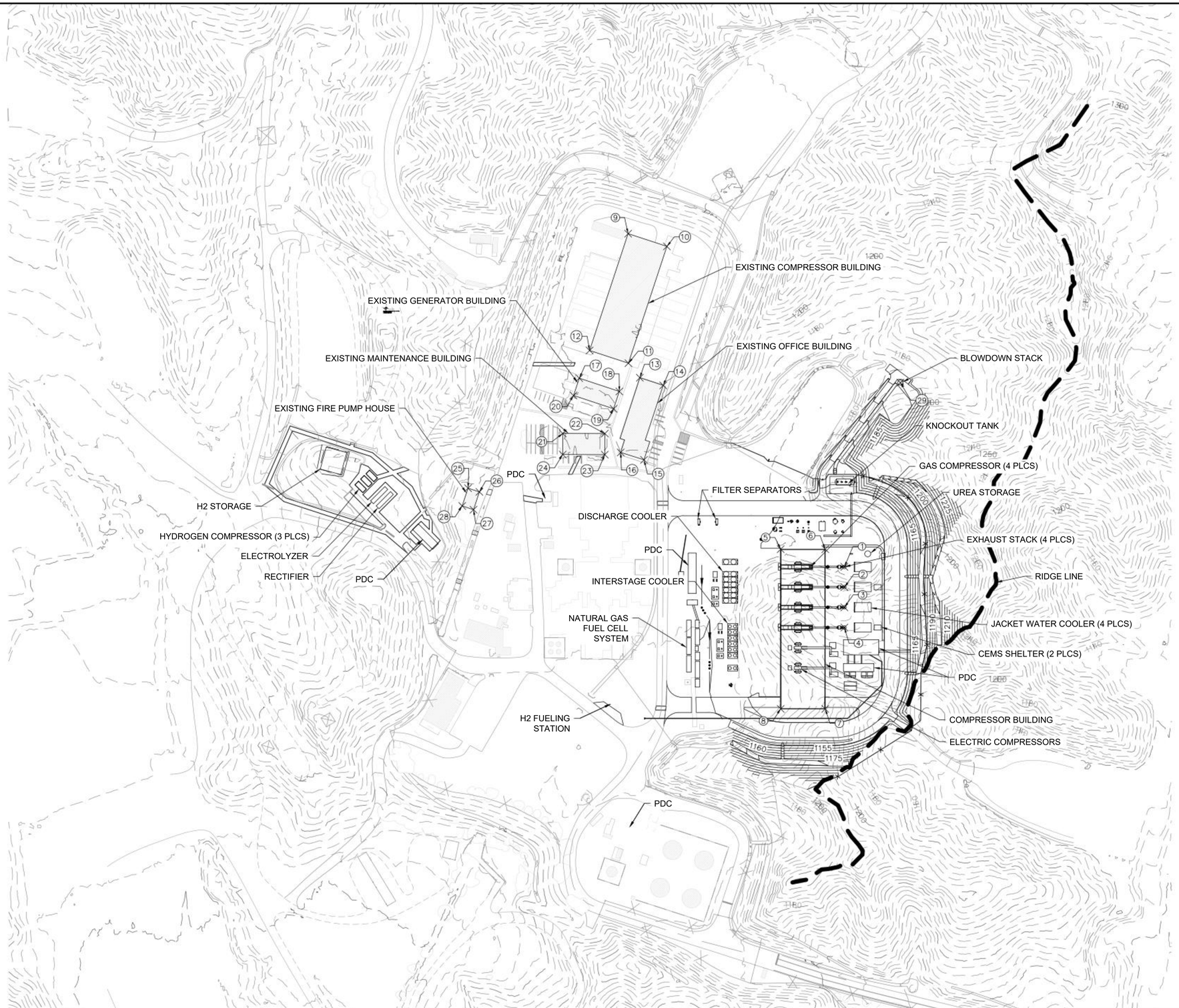
ENG FILE NO: E17031 | DWG CLASS: 50 | DWG DIST: 107
WOA: 92671.000 | SCALE: AS NOTED

SoCalGas.

HONOR RANCHO STORAGE FIELD
COMPRESSOR MODERNIZATION (HRCM)
EROSION AND SEDIMENT CONTROL DETAILS 5

28300 BRADY PARKWAY SANTA CLARITA

DRAWING NUMBER 34005-7117-D-CIV REV E



SITE PLAN POINT COORDINATE TABLE			
NUMBER	UTM NORTHING	UTM EASTING	LOCATION DESCRIPTION
1	3812748.380	354347.764	CL STACK
2	3812736.189	354347.646	CL STACK
3	3812723.998	354347.527	CL STACK
4	3812711.809	354347.407	CL STACK
5	3812759.424	354309.503	BLDG CORNER
6	3812759.160	354336.322	BLDG CORNER
7	3812662.855	354335.375	BLDG CORNER
8	3812663.118	354308.566	BLDG CORNER
9	3812950.557	354219.350	BLDG CORNER
10	3812942.658	354242.679	BLDG CORNER
11	3812872.450	354218.791	BLDG CORNER
12	3812880.350	354195.461	BLDG CORNER
13	3812863.635	354225.577	BLDG CORNER
14	3812858.869	354239.645	BLDG CORNER
15	3812814.080	354228.864	BLDG CORNER
16	3812818.692	354213.594	BLDG CORNER
17	3812863.718	354189.080	BLDG CORNER
18	3812855.470	354213.142	BLDG CORNER
19	3812845.065	354209.576	BLDG CORNER
20	3812853.313	354185.514	BLDG CORNER
21	3812830.499	354178.792	BLDG CORNER
22	3812830.180	354204.166	BLDG CORNER
23	3812817.457	354204.006	BLDG CORNER
24	3812817.776	354178.632	BLDG CORNER
25	3812798.058	354121.376	BLDG CORNER
26	3812795.742	354128.179	BLDG CORNER
27	3812785.065	354124.544	BLDG CORNER
28	3812787.380	354117.742	BLDG CORNER
29	3812859.116	354382.582	STACK CENTERLINE

SITE BUILDING DIMENSIONS	
NAME	L x W x H (FEET)
EXISTING OFFICE BUILDING	154 x 50 x 18
EXISTING MAINTENANCE BUILDING	80 x 40 x 20
EXISTING GENERATOR BUILDING	82 x 34 x 20
EXISTING COMPRESSOR BUILDING	242 x 80 x 35
EXISTING FIRE PUMP HOUSE	36 x 22 x 16
COMPRESSOR BUILDING	316 x 88 x 58.5

NORTH

0 100' 200'
SCALE IN FEET

JOHN T. SIRHALL
No. C 73423
EXPIRES 12/31/22
CIVIL
STATE OF CALIFORNIA

15 Mar 2022

PRELIMINARY
ISSUED FOR PERMIT

REV.	DATE	DRAWN	CHECKED	ENG. APV.	QUA. APV.	ENG. FILE NO.	DESCRIPTION	WOA
C	03/15/2022	WHJ	JBB	JS		E17031	ISSUED FOR PERMIT	
B	02/04/2022	WHJ	JBB	JS		E17031	ISSUED FOR PERMIT	
A	11/02/2021	WHJ	JBB	JS		E17031	ISSUED FOR PERMIT	

	BY	DATE
DESIGNED	J. BAKKER	10/29/2021
DRAWN	W. JACKSON	10/29/2021
CHECKED	J. SIRHALL	10/29/2021
PROJ. APV.	R. HIESTAND	10/29/2021
QUA. ENG. APV.		
ENG. FILE NO.		
WOA	92671.000	

SoCalGas
A Sempra Energy utility

DWG CLASS.
DWG. DATE
SCALE 1"=100'

HONOR RANCHO STORAGE FIELD
COMPRESSOR MODERNIZATION (HRCM)
OVERALL SITE PLAN

DRAWING NUMBER 34005-CIV-SK-012B
REV. C

D:\Burns & McDonnell\SoCalGas - Honor Rancho FEED (131782) - Documents\CADD\Civil\34005-CIV-SK-012B.dwg, 3/15/2022 8:15 AM, Bakker, Jon