

SOUTHERN SANDOVAL COUNTY
ARROYO FLOOD CONTROL
AUTHORITY
LOWER MONTOYAS ARROYO
BANK STABILIZATION PROJECT
SSCAFCA Project No. MO_P0029-01
MONTOYAS ARROYO WATERSHED



Southern Sandoval
County
Arroyo Flood Control
Authority

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LOWER MONTOYAS ARROYO BANK
STABILIZATION PROJECT

COVER SHEET

THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER
SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

REVISIONS &
CHANGE NOTICES

MARK	DESCRIPTION	DATE

PROJECT NO: MO_P0029-01

DESIGNED BY: AES

DRAWN BY: KLF

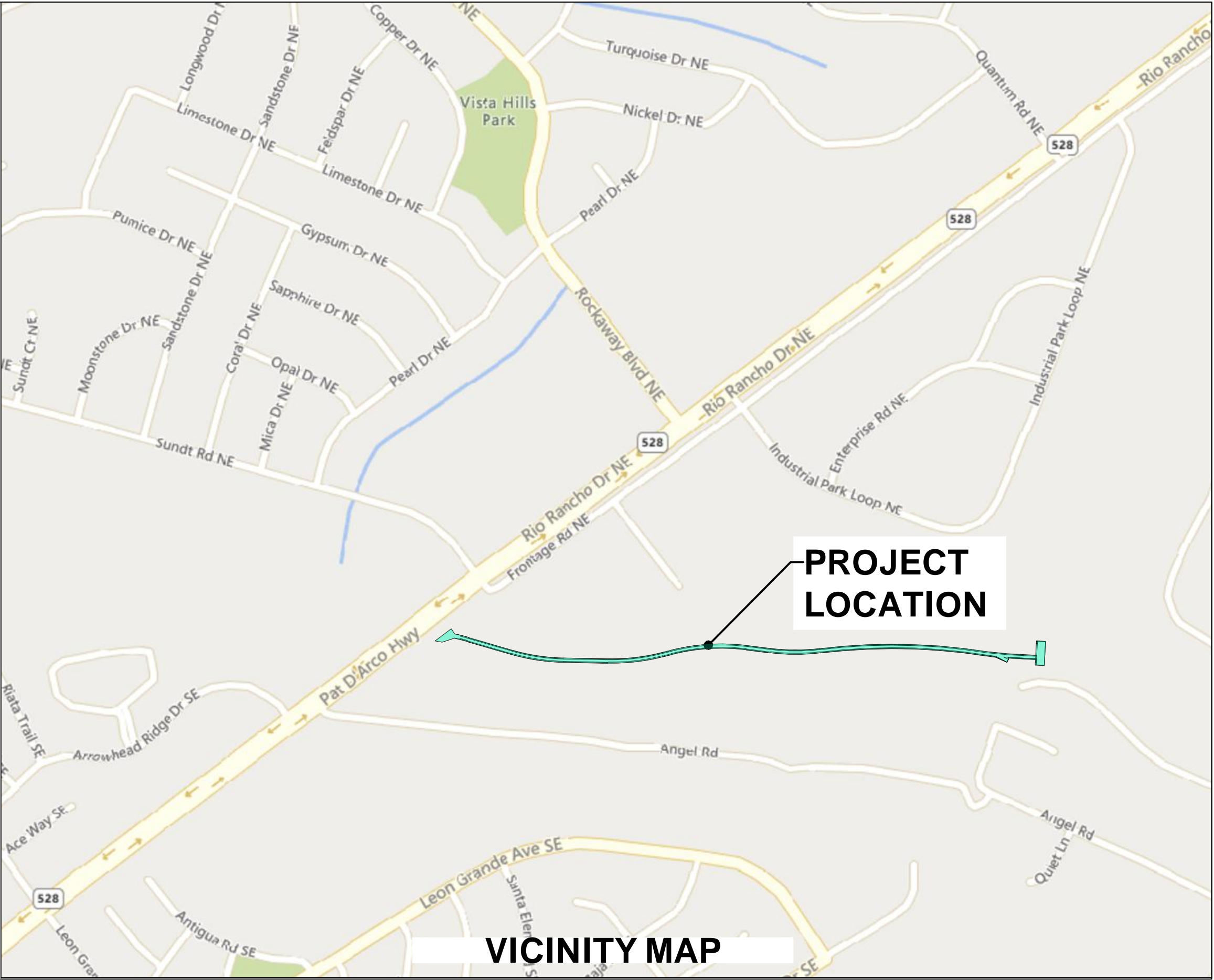
CHECKED BY: JN

DATE: 1/6/2022

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SHEET 1 OF 24

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APPROVALS

SSCAFCA: _____
EXECUTIVE ENGINEER

DATE: _____

VILLAGE OF
CORRALES: _____
PLANNING & ZONING

DATE: _____

CITY OF
RIO RANCHO: _____
UTILITY DEPARTMENT

DATE: _____

Friday, January 7, 2022 10:39:49 AM - Kathy Fournier
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GENERAL NOTES

- ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH 1) THE PROJECT CONSTRUCTION PLANS, 2) THE PROJECT SPECIFICATIONS, AND 3) NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, APWA NM CHARTER, LATEST EDITION, IN THAT ORDER OF PRECEDENCE AT THE TIME OF CONSTRUCTION BID.
- THE CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- NO MODIFICATIONS TO THESE PLANS SHALL BE MADE WITHOUT THE WRITTEN CONSENT OF THE OWNER, ENGINEER AND ALL APPROVAL SIGNATORIES. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION METHODS OR TECHNIQUES OR FOR THE PROSECUTION OF THE WORK AS SHOWN ON THESE PLANS. THE ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS OR OTHER PERSONS PERFORMING ANY WORK, AS SHOWN IN THE PROJECT CONTRACT DOCUMENTS.
- UNLESS OTHERWISE PROVIDED AS PART OF THE CONSTRUCTION PLANS, A COMPLETE TRAFFIC CONTROL PLAN SHALL BE PREPARED BY THE CONTRACTOR WHEN ANY PORTION OF THE WORK IMPACTS THE TRAVELING PUBLIC, EITHER VEHICULAR OR PEDESTRIAN. ALL CONSTRUCTION SIGNING, BARRICADING AND CHANNELIZATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (MUTCD), LATEST EDITION. THE PLAN SHALL BE SUBMITTED TO THE APPROPRIATE JURISDICTIONAL AUTHORITY FOR APPROVAL AT LEAST 7 DAYS PRIOR TO THE DESIRED START OF CONSTRUCTION. THE CONTRACTOR SHALL NOT IMPLEMENT THE TRAFFIC CONTROL PLAN UNTIL APPROVAL OF THE PLAN HAS BEEN RECEIVED.
- THE CONTRACTOR SHALL DESIGNATE AT LEAST ONE EMERGENCY CONTACT PERSON, AND SHALL PROVIDE TELEPHONE NUMBERS WHERE THIS PERSON CAN BE CONTACTED AT ANY TIME. THIS INFORMATION SHALL BE PROVIDED TO THE OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM ALL JURISDICTIONAL AUTHORITIES PRIOR TO START OF CONSTRUCTION.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY, HEALTH, AND ENVIRONMENTAL PROTECTION.
- EXISTING SITE IMPROVEMENTS WHICH ARE DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE. THE WORK SHALL BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION OF THE REPAIRS. REPAIRS MUST BE ACCEPTED BY THE OWNER PRIOR TO FINAL PAYMENT.
- THE CONTRACTOR SHALL ONLY UTILIZE THE DESIGNATED STAGING AREAS FOR STORAGE OF ALL EQUIPMENT AND MATERIALS. THE OWNER ASSUMES NO RESPONSIBILITY OR LIABILITY FOR CONTRACTOR'S EQUIPMENT AND MATERIAL IN THE STAGING AREA. SECURITY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. IF NO STAGING AREA IS DESIGNATED ON THESE PLANS, AN OFF-SITE STAGING AREA SHALL BE PROVIDED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE, OR THE CONTRACTOR MAY NEGOTIATE WITH THE OWNER TO USE AN ON-SITE AREA.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING, IN ADVANCE OF HIS/HER CONSTRUCTION OPERATIONS, IF OVERHEAD UTILITY LINES, SUPPORT STRUCTURES, POLES, GUYS, ETC., ARE AN OBSTRUCTION TO CONSTRUCTION OPERATIONS. IF ANY OBSTRUCTION IS EVIDENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY OWNER TO REMOVE OR SUPPORT THE UTILITY OBSTRUCTION. ANY COSTS ASSOCIATED WITH THIS EFFORT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH ACTUAL VERTICAL AND HORIZONTAL CONTROLS ON THE CONSTRUCTION DOCUMENTS, ARE SHOWN APPROXIMATE AND IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION PROVIDED BY VARIOUS OWNERS OF THE FACILITIES, AND SUPPLEMENTED BY VISUAL SURFACE INFORMATION WHERE APPROPRIATE. ACCURACY, LOCATION, AND COMPLETENESS OF THIS INFORMATION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD BE VERIFIED, BY ANY MEANS NECESSARY, PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE OWNER AT 505-892-7246 IMMEDIATELY.
- IT IS MANDATORY THAT A PRE-CONSTRUCTION MEETING BE HELD PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE OWNER AT 505-892-7246 TO DETERMINE THE TIME AND LOCATION OF THE PRE-CONSTRUCTION MEETING.
- AT THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT A DETAILED CONSTRUCTION SCHEDULE TO THE OWNER.
- ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE OWNER AND/OR ALL WORK AND MATERIALS NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS AND TAKE WHATEVER MEASURES ARE NECESSARY TO ENSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST-FREE CONDITION AT ALL TIMES.
- THE CONTRACTOR SHALL CONTACT NEW MEXICO ONE CALL AT 811 OR 1-800-321-2537, FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION FOR UTILITY SPOTS IN ACCORDANCE WITH APPLICABLE STATE LAW.
- CONTRACTOR WILL NOTIFY THE OWNER AT 505-892-7246 A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL CONFINE HIS WORK TO WITHIN THE CONSTRUCTION LIMITS AND/OR PUBLIC RIGHTS-OF-WAY TO PRESERVE EXISTING VEGETATION, LANDSCAPING, AND PRIVATE PROPERTY. APPROVAL OF THESE PLANS DOES NOT GIVE OR IMPLY ANY PERMISSION TO TRESPASS OR WORK ON PRIVATE PROPERTY. PERMISSION MUST BE GRANTED IN WRITING BY THE OWNER OF THAT PROPERTY.
- IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO KEEP THE JOB SITE FREE FROM TRASH ON A DAILY BASIS, AND ALL MATERIALS WILL BE NEATLY ORGANIZED. TRASH AND/OR NON-USED MATERIALS SHALL NOT BE BURIED ON-SITE.
- CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES SO AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.

GENERAL NOTES (CONTINUED)

- CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING UTILIZING APPROVED CONSTRUCTION PLANS, THE APPROPRIATE RIGHT-OF-WAY MAPS AND RECORDED PLATS, EACH REVISION TO THE PLANS SHALL BE RECORDED IN THE PLAN REVISION BLOCK. PLANS SHALL INCLUDE LOCATION MAP WITH LEGAL DESCRIPTION AND LOCATION GRID.
- THE CONTRACTOR SHALL MAINTAIN AN UP TO DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THE FINAL AS-BUILT PLANS, REFLECTING ANY AND ALL CHANGES TO THE ORIGINAL PLAN, SHALL BE SUBMITTED TO THE OWNER PRIOR TO FINAL PAYMENT.
- THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION ACTIVITIES, PERMITTING, AND SUBMITTALS ARE IN ACCORDANCE WITH THE SSCAFCA AND/OR JURISDICTIONAL AUTHORITY ORDINANCES.
- NO WORK SHALL BE PERFORMED IN A FEMA FLOODPLAIN WITHOUT WRITTEN AUTHORIZATION FROM THE LOCAL FLOODPLAIN MANAGER.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF HIS WORK FROM STORMWATER FLOWS AS OUTLINED IN THE SUPPLEMENTAL TECHNICAL SPECIFICATIONS PROVIDED IN THE CONTRACT DOCUMENTS.
- UNLESS OTHERWISE SPECIFIED, ALL CONCRETE SHALL BE A MINIMUM OF 3,000 PSI.
- IF APPLICABLE, THE CONTRACTOR SHALL COMPLY WITH ALL CONSTRUCTION RELATED REQUIREMENTS OF THE PROJECT'S CORP OF ENGINEERS 404 PERMIT. COPIES OF THE PERMIT TERMS MAY BE OBTAINED FROM THE OWNER.

EROSION CONTROL / ENVIRONMENTAL PROTECTION / STORMWATER POLLUTION PREVENTION PLAN

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULFILLING ALL NECESSARY NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, PREPARING A STORM WATER POLLUTION PREVENTION PLAN (SWPPP), OBTAINING AN NPDES PERMIT PRIOR TO CONSTRUCTION, FILLING OUT THE NOTICE OF INTENT (NOI) APPLICATION, AND FILLING OUT THE NOTICE OF TERMINATION (NOT) APPLICATION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE IMPLEMENTATION OF AND INSPECTION REPORTS FOR THE SWPPP.
- THE CONTRACTOR SHALL SUBMIT THE SWPPP WITH THE PROPOSED CONSTRUCTION STAGING AREA AND TEMPORARY SANITARY FACILITIES CLEARLY SHOWN. ANY CHECK DAMS, SILT FENCES, OR OTHER BEST MANAGEMENT PRACTICES (BMPs) THAT ARE REQUIRED IN THE APPROVED SWPPP SHALL BE INCLUDED IN, AND ARE INCIDENTAL TO, THE NPDES/SWPPP BID ITEM.
- THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED SWPPP ON-SITE AT ALL TIMES AND SHALL COMPLY WITH THE REQUIREMENTS INDICATED ON THAT PLAN AND SHALL PROVIDE AN ADDITIONAL FULLY EXECUTED COPY TO THE OWNER.
- THE CONTRACTOR SHALL EITHER PROMPTLY REMOVE ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR INSTALL BMPs IDENTIFIED IN THE APPROVED SWPPP TO PREVENT DISCHARGE OF EXCAVATED MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY DURING A RAIN OR WIND EVENT.
- THE CONTRACTOR SHALL IMPLEMENT THE APPROVED SWPPP, IF APPLICABLE, AND ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY.
- THE CONTRACTOR SHALL MITIGATE EROSION OF TEMPORARY OR PERMANENT DIRT SWALES BY INSTALLING BMPs IDENTIFIED IN THE APPROVED SWPPP IN THE SWALES PERPENDICULAR TO THE DIRECTION OF FLOW, AND AT INTERVALS AS SPECIFIED IN THE SWPPP.
- CONSTRUCTION AREAS SHALL BE WATERED FOR DUST CONTROL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND SUPPLYING WATER AS REQUIRED. WATERING, AS REQUIRED FOR CONSTRUCTION AND DUST CONTROL, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND NO MEASUREMENT OR PAYMENT SHALL BE MADE THEREFOR.
- ANY AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY AN IMPERVIOUS SURFACE SHALL BE REVEGETATED WITH NATIVE GRASS SEEDING. WHEN CONSTRUCTION ACTIVITIES CEASE AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME WITHIN 14 DAYS, STABILIZATION MEASURES MUST BE INITIATED.
- ALL WASTE PRODUCTS FROM THE CONSTRUCTION SITE, INCLUDING ITEMS DESIGNATED FOR REMOVAL, CONSTRUCTION WASTE, CONSTRUCTION EQUIPMENT WASTE PRODUCTS (OIL, GAS, TIRES, ETC.) GARBAGE, GRUBBING, EXCESS CUT MATERIAL, VEGETATIVE DEBRIS, ETC. SHALL BE APPROPRIATELY DISPOSED OF OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMITS REQUIRED TO HAUL OR DISPOSE OF WASTE PRODUCTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE WASTE DISPOSAL SITE COMPLIES WITH GOVERNMENT REGULATIONS REGARDING THE ENVIRONMENT, ENDANGERED SPECIES, AND ARCHAEOLOGICAL RESOURCES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP AND REPORTING OF SPILLS OF HAZARDOUS MATERIALS ASSOCIATED WITH THE CONSTRUCTION SITE. HAZARDOUS MATERIALS INCLUDE GASOLINE, DIESEL FUEL, MOTOR OIL, SOLVENTS, CHEMICALS, PAINTS, ETC. WHICH MAY BE A THREAT TO THE ENVIRONMENT. THE CONTRACTOR SHALL REPORT THE DISCOVERY OF PAST OR PRESENT SPILLS TO THE NEW MEXICO ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE TEAM AT 505-827-9329.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING SURFACE AND UNDERGROUND WATER. CONTACT WITH SURFACE WATER BY CONSTRUCTION EQUIPMENT AND PERSONNEL SHALL BE MINIMIZED. EQUIPMENT MAINTENANCE AND REFUELING OPERATIONS SHALL BE PERFORMED IN AN ENVIRONMENTALLY SAFE MANNER IN COMPLIANCE WITH GOVERNMENT REGULATIONS.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS CONCERNING CONSTRUCTION NOISE AND HOURS OF OPERATION.
- WHERE STORM INLETS ARE SUSCEPTIBLE TO INFLOW OF SILT OR DEBRIS FROM CONSTRUCTION ACTIVITIES, PROTECTION SHALL BE PROVIDED ON THEIR UPSTREAM SIDE UTILIZING BMPs IDENTIFIED IN THE APPROVED SWPPP.

SOILS

- UNLESS OTHERWISE SPECIFIED SUBGRADE SOILS AND STRUCTURAL FILL MATERIALS SHALL BE COMPACTED TO THE FOLLOWING PERCENTAGES OF THE ASTM D-1557 MAXIMUM DENSITY.

MATERIALS	PERCENT (%) COMPACTION
STRUCTURAL FILL IN THE BUILDING AREA	95
SUB BASE FOR SLAB SUPPORT	95
MISCELLANEOUS BACKFILL BELOW STRUCTURAL FILL OR ROAD	95
MISCELLANEOUS BACKFILL BELOW UNPAVED, NON-BUILDING AREAS	90
ROAD SUB GRADE	95
SIDEWALK / TRAIL SUB GRADE	95
CURB AND GUTTER SUBGRADE	95
- AT ALL FINAL GRADES, WITH THE EXCEPTION OF AREAS WITH IMPROVEMENTS, SHALL BE DISKED OR RIPPED TO A DEPTH OF 12" TO FACILITATE PLANT GROWTH.

UTILITY COMPANY CONTACTS

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ABBREVIATIONS

AP	ANALYSIS POINT
@	AT
BC	BEGIN CURVE
BCR	BEGIN CURB RETURN
BK	BOOK
BLDG	BUILDING
BM	BENCH MARK
BOA	BEGINNING OF ALIGNMENT
BOP	BEGINNING OF PROJECT
BVC	BEGIN VERTICAL CURVE
BW	BASE OF WALL
CATV	CABLE TV LINE
CB	CATCH BASIN
CF	CURB FACE
CFS	CUBIC FEET PER SECOND
CG	CURB AND GUTTER
CLF	CHAIN LINK FENCE
C	CENTERLINE
OMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
CONC	CONCRETE
CORR	CITY OF RIO RANCHO
CY	CUBIC YARDS
DUE	DRAINAGE UTILITY EASEMENT
DI	DROP INLET
DIA	DIAMETER
Δ	DELTA
EACH	EACH WAY
EC	END CURVE
ECR	END CURB RETURN
ELEV	ELEVATION
EOA	END OF ALIGNMENT
EOP	END OF PROJECT
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
EST	ESTIMATE
EVC	END VERTICAL CURVE
EW	EACH WAY
EXIST	EXISTING
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FOC	FACE OF CURB
FP	FINISHED PAD
FPS	FEET PER SECOND
G	GAS
GM	GAS METER
GV	GATE VALVE
HORIZ	HORIZONTAL
INT	INTERSECTION
INV	INVERT
INV EL	INVERT ELEVATION
LF	LINEAR FEET
LP	LIGHT POLE
LT	LEFT
MH	MANHOLE
MID	MID-POINT
NG	NATURAL GROUND
OC	ON CENTER
OHE	OVER HEAD ELECTRIC
PB	PULL BOX
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PG	PAGE
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE PIPE
PVMT	PAVEMENT
Q	100 YEAR PEAK DISCHARGE
QTY	QUANTITY
RAD	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REF	REFERENCE
RP	RADIUS POINT
RT	RIGHT
R/W,ROW	RIGHT-OF-WAY
S	SLOPE
SAS, SS	SANITARY SEWER LINE
SD	STORM DRAIN
SF	SQUARE FEET
STA	STATION
STD	STANDARD
SW	SIDEWALK
SY	SQUARE YARDS
T	TANGENT
TA	TOP OF ASPHALT
TAC	TOP OF ASPHALT CURB
TBC	TOP BACK OF CURB
TC	TOP OF CONCRETE
TEL	TELEPHONE LINE, RISER OR BOX
TP	TOP OF PIPE
TRANS	TRANSVERSE
TW	TOP OF WALL
TYP	TYPICAL
UE	UNDERGROUND ELECTRICAL LINE
UT	UNDERGROUND TELEPHONE LINE
V	VELOCITY
VC	VERTICAL CURVE
VERT	VERTICAL
VPI	VERTICAL POINT OF INTERSECTION
W	WATER LINE
WM	WATER METER
WQ	WATER QUALITY
WSEL	WATER SURFACE ELEVATION
WV	WATER VALVE



Southern Sandoval
County
Arroyo Flood Control
Authority

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LOWER MONTOYAS ARROYO BANK
STABILIZATION PROJECT

GENERAL NOTES

THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER
SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

REVISIONS &
CHANGE NOTICES

MARK	DESCRIPTION	DATE

PROJECT NO: MO_P0029-01

DESIGNED BY: AES

DRAWN BY: JNN

CHECKED BY: JJH

DATE: 1/7/2022

TOPOGRAPHIC SURVEY
LOWER MONTOYAS ARROYO
BANK STABILIZATION STUDY

CITY OF RIO RANCHO
SANDOVAL COUNTY, NEW MEXICO
MARCH, 2021

NOTES:

1. PLAT REFERENCE: WITHIN ARROWHEAD EAST SUBDIVISION PLAT (SUMMARY) TRACT A FILED 1/27/2011 PAGE 3288 (RR BOOK 23, PG. 88) AND BOUNDARY SURVEY PLAT, RECORDED 9/25/2002 IN VOL. 3, PAGE 2213-A, SANDOVAL COUNTY, NEW MEXICO.
2. BEARINGS AND DISTANCES MEASURED WITH THE "TRIMBLE VRS NOW" GNSS RTK VIRTUAL REFERENCE SYSTEM. BEARINGS ARE NEW MEXICO STATE PLANE BEARINGS, CENTRAL ZONE, NAD83. DISTANCES ARE GROUND DISTANCES. ELEVATION DATUM IS NAVD83.
3. GEODETIC REFERENCE IS AN OBSERVATION ON USCGS BRASS CAP STATION "ACADEMY 1969" HAVING NEW MEXICO STATE PLANE COORDINATES, NAD83 CENTRAL ZONE, NAD83 N1545373.92 USRT E1534536.60 USRT.
4. ELEVATION DATUM IS NAVD83 AS MEASURED WITH THE "TRIMBLE VRS NOW" GNSS RTK VIRTUAL REFERENCE SYSTEM AND CHECKED AGAINST "OPUS" GPS SOLUTIONS ON CONTROL POINTS.

THIS IS NOT A BOUNDARY SURVEY OR RIGHT-OF-WAY SURVEY
APPARENT PROPERTY CORNERS, RIGHT-OF-WAY OR PROPERTY LINES
ARE SHOWN AND DERIVED FROM RECORD SURVEY PLATS, RIGHT-OF-WAY
MAPS OR DEEDS REFERENCED HEREON AND ARE NOT GUARANTEED OR
TO BE RELIED ON FOR THE ESTABLISHMENT OF PROPERTY LINES.

TOPO WITH ORTHOPHOTO

TOPO AND PLAT ONLY

DETAIL - NMSR528 AREA

DETAIL - EAST AREA

DIAGRAM - NMSR528
BOX CULVERT

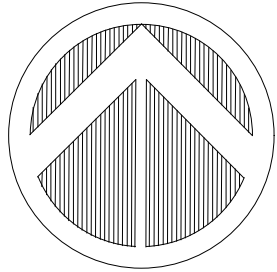
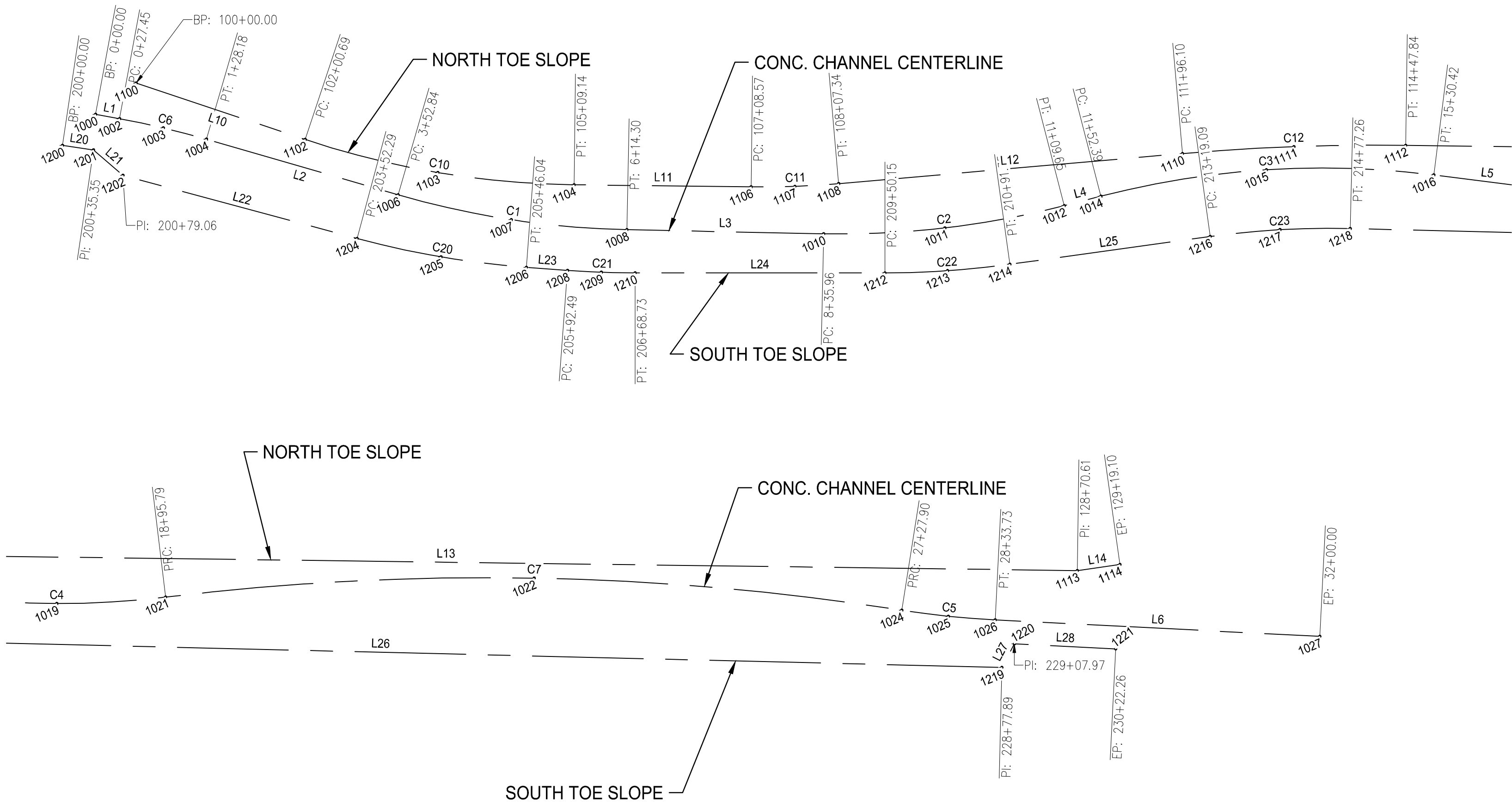
TOPOGRAPHIC SURVEY
SSCAFC A LOWER MONTOYAS 2021
RIO RANCHO, NEW MEXICO

Community
Sciences
Corporation
Land Surveying
(505) 897-0000

1 of 1

Thursday, January 6, 2022 10:10:01 AM -- Kathy Fournier
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Point Table				
Point #	Elevation	Northing	Easting	Description
33	5029.00	1545373.92	1534536.60	ACADEMY
1000	5168.64	1549085.69	1523624.67	CONC-CHANNEL - 0+00.00 - BOA
1001	5164.50	1548097.16	1523471.19	CONC-CHANNEL - 0+27.45 - RP
1002	5168.32	1549080.74	1523651.67	CONC-CHANNEL - 0+27.45 - PC
1003	5165.60	1549070.40	1523700.96	CONC-CHANNEL - 0+77.81 - Mid
1004	5164.50	1549057.60	1523749.67	CONC-CHANNEL - 1+28.18 - PT
1005	5161.85	1549955.49	1524243.91	CONC-CHANNEL - 3+52.84 - RP
1006	5161.85	1548995.04	1523965.44	CONC-CHANNEL - 3+52.84 - PC
1007	5160.32	1548966.94	1524093.01	CONC-CHANNEL - 4+83.57 - Mid
1008	5158.78	1548955.70	1524223.17	CONC-CHANNEL - 6+14.30 - PT
1009	5156.17	1549950.89	1524465.53	CONC-CHANNEL - 8+35.96 - RP
1010	5156.17	1548951.10	1524444.78	CONC-CHANNEL - 8+35.96 - PC
1011	5154.56	1548957.62	1524581.37	CONC-CHANNEL - 9+72.81 - Mid
1012	5152.95	1548982.71	1524715.79	CONC-CHANNEL - 11+09.65 - PT
1013	5152.45	1548025.22	1525007.42	CONC-CHANNEL - 11+52.39 - RP
1014	5152.45	1548993.40	1524757.16	CONC-CHANNEL - 11+52.39 - PC
1015	5150.23	1549023.18	1524943.53	CONC-CHANNEL - 13+41.40 - Mid
1016	5148.00	1549017.41	1525132.17	CONC-CHANNEL - 15+30.42 - PT
1017	5146.60	1549994.70	1525375.43	CONC-CHANNEL - 16+49.85 - RP
1018	5146.60	1549002.51	1525250.67	CONC-CHANNEL - 16+49.85 - PC
1019	5145.15	1548994.70	1525373.32	CONC-CHANNEL - 17+72.82 - Mid
1020	5133.92	1546023.88	1525587.69	CONC-CHANNEL - 18+95.79 - RP

Point Table				
Point #	Elevation	Northing	Easting	Description
1021	5143.71	1549001.99	1525495.99	CONC-CHANNEL - 18+95.79 - PRC
1022	5138.81	1549023.40	1525911.16	CONC-CHANNEL - 23+11.85 - Mid
1023	5132.67	1549974.99	1526481.18	CONC-CHANNEL - 27+27.90 - RP
1024	5133.92	1548987.21	1526325.31	CONC-CHANNEL - 27+27.90 - PRC
1025	5133.30	1548980.35	1526377.77	CONC-CHANNEL - 27+80.82 - Mid
1026	5132.67	1548976.27	1526430.52	CONC-CHANNEL - 28+33.73 - PT
1027	5125.01	1548957.71	1526796.32	CONC-CHANNEL - 32+00.00 - EOA
1100	5171.26	1549120.90	1523670.36	NORTH-TOE-SLOPE - 100+00.00 - BOA
1101	5161.54	1550001.23	1524175.65	NORTH-TOE-SLOPE - 102+00.69 - RP
1102	5165.41	1549057.38	1523860.73	NORTH-TOE-SLOPE - 102+00.69 - PC
1103	5163.40	1549020.08	1524010.21	NORTH-TOE-SLOPE - 103+54.91 - Mid
1104	5161.54	1549006.30	1524163.67	NORTH-TOE-SLOPE - 105+09.14 - PT
1105	5157.95	1549998.83	1524375.08	NORTH-TOE-SLOPE - 107+08.57 - RP
1106	5159.14	1549003.90	1524363.09	NORTH-TOE-SLOPE - 107+08.57 - PC
1107	5158.55	1549004.53	1524412.47	NORTH-TOE-SLOPE - 107+57.96 - Mid
1108	5157.95	1549007.61	1524461.75	NORTH-TOE-SLOPE - 108+07.34 - PT
1109	5153.34	1546545.99	1525067.23	NORTH-TOE-SLOPE - 111+96.10 - RP
1110	5153.34	1549041.47	1524849.03	NORTH-TOE-SLOPE - 111+96.10 - PC
1111	5151.97	1549049.28	1524974.64	NORTH-TOE-SLOPE - 113+21.97 - Mid
1112	5150.55	1549050.77	1525100.50	NORTH-TOE-SLOPE - 114+47.84 - PT
1113	5133.62	1549031.88	1526523.14	NORTH-TOE-SLOPE - 128+70.61 - PI
1114	5133.06	1549038.73	1526571.13	NORTH-TOE-SLOPE - 129+19.10 - EOA

Point Table				
Point #	Elevation	Northing	Easting	Description
1200	5168.64	1549050.74	1523587.42	SOUTH-TOE-SLOPE - 200+00.00 - BOA
1201	5169.02	1549045.56	1523622.38	SOUTH-TOE-SLOPE - 200+35.35 - PI
1202	5170.00	1549016.97	1523655.44	SOUTH-TOE-SLOPE - 200+79.06 - PC
1203	5166.72	1549935.48	1524186.13	SOUTH-TOE-SLOPE - 203+52.29 - RP
1204	5166.72	1548945.83	1523919.26	SOUTH-TOE-SLOPE - 203+52.29 - PC
1205	5165.64	1548925.06	1524013.84	SOUTH-TOE-SLOPE - 204+49.17 - Mid
1206	5164.40	1548913.31	1524109.96	SOUTH-TOE-SLOPE - 205+46.04 - PT
1207	5162.92	1549932.03	1524232.45	SOUTH-TOE-SLOPE - 205+92.49 - RP
1208	5163.84	1548909.86	1524156.28	SOUTH-TOE-SLOPE - 205+92.49 - PC
1209	5163.39	1548907.73	1524194.34	SOUTH-TOE-SLOPE - 206+30.61 - Mid
1210	5162.92	1548907.03	1524232.45	SOUTH-TOE-SLOPE - 206+68.73 - PT
1211	5159.55	1549932.03	1524513.87	SOUTH-TOE-SLOPE - 209+50.15 - RP
1212	5159.55	1548907.03	1524513.87	SOUTH-TOE-SLOPE - 209+50.15 - PC
1213	5158.73	1548909.46	1524584.42	SOUTH-TOE-SLOPE - 210+20.75 - Mid
1214	5157.85	1548916.74	1524654.62	SOUTH-TOE-SLOPE - 210+91.35 - PT
1215	5153.22	1547982.24	1525014.09	SOUTH-TOE-SLOPE - 213+19.09 - RP
1216	5155.12	1548948.01	1524880.21	SOUTH-TOE-SLOPE - 213+19.09 - PC
1217	5154.17	1548955.68	1524958.90	SOUTH-TOE-SLOPE - 213+98.18 - Mid
1218	5153.22	1548956.95	1525037.95	SOUTH-TOE-SLOPE - 214+77.26 - PT
1219	5137.76	1548922.68	1526438.16	SOUTH-TOE-SLOPE - 228+77.89 - PI
1220	5137.94	1548949.31	1526452.17	SOUTH-TOE-SLOPE - 229+07.97 - PI
1221	5133.06	1548943.52	1526566.30	SOUTH-TOE-SLOPE - 230+22.26 - EOA

ALIGNMENT DATA					
Number	Radius	Length	Line/Chord Direction	Chord Length	Delta
C1	1000.00	261.46	S81° 19' 16"E	260.72	14° 58' 50"
C2	1000.00	273.69	N83° 20' 52"E	272.84	15° 40' 53"
C3	1000.00	378.03	N86° 20' 13"E	375.78	21° 39' 34"
C4	1000.00	245.94	S89° 52' 44"E	245.32	14° 05' 29"
C5	1000.00	105.83	S84° 03' 52"E	105.78	6° 03' 49"
C6	1000.00	100.73	S76° 43' 00"E	100.69	5° 46' 18"
C7	3000.00	832.11	S88° 58' 43"E	829.45	15° 53' 32"
C10	995.00	308.45	S80° 25' 44"E	307.22	17° 45' 42"
C11	995.00	98.77	N87° 50' 48"E	98.73	5° 41' 15"
C12	2505.00	251.75	N87° 52' 55"E	251.64	5° 45' 29"
C20	1025.00	193.74	S80° 19' 24"E	193.46	10° 49' 48"
C21	1025.00	76.24	S87° 52' 09"E	76.22	4° 15' 42"
C22	1025.00	141.19	N86° 03' 13"E	141.08	7° 53' 33"
C23	975.00	158.17	N86° 45' 17"E	157.99	9° 17' 41"
L1		27.45	S79° 36' 09"E		
L2		224.66	S73° 49' 51"E		
L3		221.67	S88° 48' 41"E		
L4		42.73	N75° 30' 26"E		
L5		119.43	S82° 50' 00"E		
L6		366.27	S87° 05' 46"E		
L10		200.69	S71° 32' 53"E		
L11		199.44	S89° 18' 35"E		
L12		388.75	N85° 00' 10"E		
L13		1422.77	S89° 14' 21"E		
L14		48.48	N81° 52' 37"E		
L20		35.35	S81° 34' 39"E		
L21		43.71	S49° 08' 39"E		
L22		273.24	S74° 54' 31"E		
L23		46.45	S85° 44' 18"E		
L24		281.42	N90° 00' 00"E		
L25		227.75	N82° 06' 27"E		
L26		1400.63	S88° 35' 52"E		
L27		30.09	N27° 44' 44"E		
L28		114.29	S87° 05' 46"E		



**Southern Sandoval
County
Arroyo Flood Control
Authority**

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505-892-7241 (Fax)
www.sscafca.com



LOWER MONTOYAS ARROYO BANK
STABILIZATION PROJECT

SITE CONTROL PLAN

THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER
SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

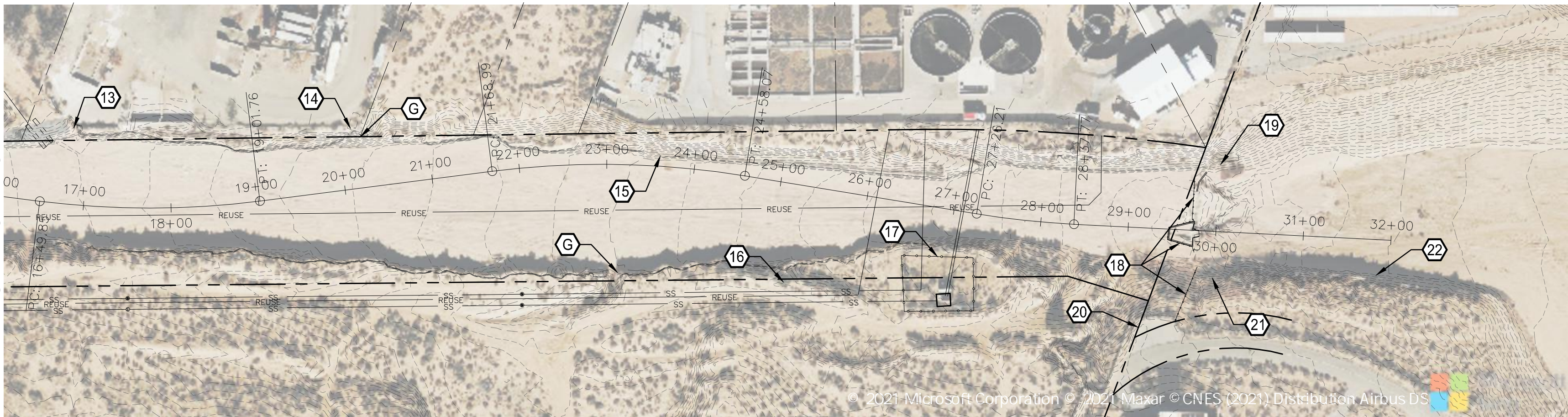
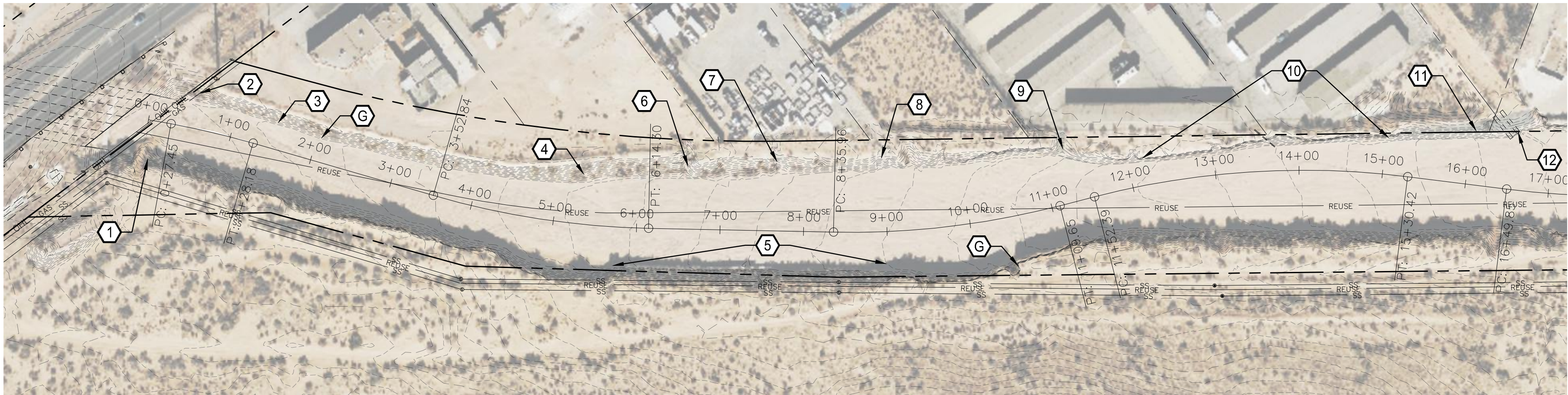
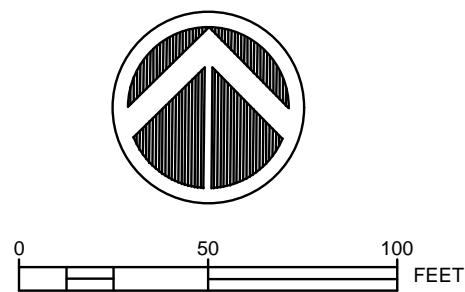
REVISIONS & CHANGE NOTICES		
MARK	DESCRIPTION	DATE

PROJECT NO: MO_P0029-01
DESIGNED BY: AES
DRAWN BY: KLF
CHECKED BY: JLN
DATE: 12/30/2021

Thursday, January 6, 2022 11:12:01 AM -KFOURNIER
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Ⓔ GENERAL NOTE:

SMALL QUANTITIES OF BROKEN CONCRETE AND MISCELLANEOUS NON-NATURAL RUBBLE EXIST THROUGHOUT THE PROJECT AREA. REMOVAL AND DISPOSAL OF THESE ITEMS, ALTHOUGH NOT INDIVIDUALLY CALLED OUT FOR REMOVAL ON THIS SHEET, SHALL BE CONSIDERED INCIDENTAL TO THE REMOVAL OF OBSTRUCTIONS BID ITEM.



KEYED NOTES:

- STA. 0+00± TO 1+00±, 40'±RT., IF NECESSARY REMOVE AND DISPOSE OF WIRE ENCLOSED RIPRAP 85'± X 13'±. DEPTH UNKNOWN.
- STA. 1+00± TO 2+00±, 50'±LT., REMOVE AND DISPOSE OF WIRE ENCLOSED RIPRAP 25'± X 15'±. DEPTH UNKNOWN.
- STA. 2+00± TO 3+00±, 35'±LT., IF NECESSARY REMOVE AND DISPOSE OF ROCK GABIONS 200'± ALONG TOE OF BANK.
- STA. 3+00± TO 4+00±, 70'±LT., REMOVE AND DISPOSE OF 1± CY CONCRETE DEBRIS.
- STA. 4+00± TO 5+00±, 50'±RT., IF NECESSARY REMOVE AND SALVAGE APPROX. 115± CONCRETE BLOCKS (6'X2'X2').
- STA. 5+00± TO 6+00±, 75'±LT., REMOVE AND DISPOSE OF < 1 CY ROCK/WIRE RUNDOWN.(SEE GENERAL NOTE, THIS SHEET.)
- STA. 6+00± TO 7+00±, 80'±LT., REMOVE AND DISPOSE OF 34± CY CONCRETE DEBRIS.
- STA. 7+00± TO 8+00±, 90'±LT., REMOVE AND DISPOSE OF 69± CY CONCRETE DEBRIS RUNDOWN.
- STA. 8+00± TO 9+00±, 65'±LT., REMOVE WIRE ENCLOSED RIPRAP RUNDOWN AND STAKES. SALVAGE ROCK, DISPOSE OF REMAINDER.
- STA. 9+00± TO 10+00±, 65'±LT., REMOVE WIRE ENCLOSED RIPRAP RUNDOWN AND STAKES. SALVAGE ROCK, DISPOSE OF REMAINDER.
- STA. 10+00± TO 11+00±, 65'±LT., REMOVE WIRE ENCLOSED RIPRAP RUNDOWN AND STAKES. SALVAGE ROCK, DISPOSE OF REMAINDER.
- STA. 11+00± TO 12+00±, 65'±LT., REMOVE WIRE ENCLOSED RIPRAP RUNDOWN AND STAKES. SALVAGE ROCK, DISPOSE OF REMAINDER.
- STA. 12+00± TO 13+00±, 65'±LT., REMOVE WIRE ENCLOSED RIPRAP RUNDOWN AND STAKES. SALVAGE ROCK, DISPOSE OF REMAINDER.
- STA. 13+00± TO 14+00±, 65'±LT., REMOVE WIRE ENCLOSED RIPRAP RUNDOWN AND STAKES. SALVAGE ROCK, DISPOSE OF REMAINDER.
- STA. 14+00± TO 15+00±, 65'±LT., REMOVE WIRE ENCLOSED RIPRAP RUNDOWN AND STAKES. SALVAGE ROCK, DISPOSE OF REMAINDER.
- STA. 15+00± TO 16+00±, 65'±LT., REMOVE WIRE ENCLOSED RIPRAP RUNDOWN AND STAKES. SALVAGE ROCK, DISPOSE OF REMAINDER.
- STA. 16+00± TO 17+00±, 65'±LT., REMOVE WIRE ENCLOSED RIPRAP RUNDOWN AND STAKES. SALVAGE ROCK, DISPOSE OF REMAINDER.
- STA. 17+00± TO 18+00±, 65'±LT., REMOVE WIRE ENCLOSED RIPRAP RUNDOWN AND STAKES. SALVAGE ROCK, DISPOSE OF REMAINDER.
- STA. 18+00± TO 19+00±, 65'±LT., REMOVE WIRE ENCLOSED RIPRAP RUNDOWN AND STAKES. SALVAGE ROCK, DISPOSE OF REMAINDER.
- STA. 19+00± TO 20+00±, 65'±LT., REMOVE WIRE ENCLOSED RIPRAP RUNDOWN AND STAKES. SALVAGE ROCK, DISPOSE OF REMAINDER.
- STA. 20+00± TO 21+00±, 65'±LT., REMOVE WIRE ENCLOSED RIPRAP RUNDOWN AND STAKES. SALVAGE ROCK, DISPOSE OF REMAINDER.
- STA. 21+00± TO 22+00±, 65'±LT., REMOVE WIRE ENCLOSED RIPRAP RUNDOWN AND STAKES. SALVAGE ROCK, DISPOSE OF REMAINDER.
- STA. 22+00± TO 23+00±, 65'±LT., REMOVE WIRE ENCLOSED RIPRAP RUNDOWN AND STAKES. SALVAGE ROCK, DISPOSE OF REMAINDER.
- STA. 23+00± TO 24+00±, 65'±LT., REMOVE WIRE ENCLOSED RIPRAP RUNDOWN AND STAKES. SALVAGE ROCK, DISPOSE OF REMAINDER.
- STA. 24+00± TO 25+00±, 65'±LT., REMOVE WIRE ENCLOSED RIPRAP RUNDOWN AND STAKES. SALVAGE ROCK, DISPOSE OF REMAINDER.
- STA. 25+00± TO 26+00±, 65'±LT., REMOVE WIRE ENCLOSED RIPRAP RUNDOWN AND STAKES. SALVAGE ROCK, DISPOSE OF REMAINDER.
- STA. 26+00± TO 27+00±, 65'±LT., REMOVE WIRE ENCLOSED RIPRAP RUNDOWN AND STAKES. SALVAGE ROCK, DISPOSE OF REMAINDER.
- STA. 27+00± TO 28+00±, 65'±LT., REMOVE WIRE ENCLOSED RIPRAP RUNDOWN AND STAKES. SALVAGE ROCK, DISPOSE OF REMAINDER.
- STA. 28+00± TO 29+00±, 65'±LT., REMOVE WIRE ENCLOSED RIPRAP RUNDOWN AND STAKES. SALVAGE ROCK, DISPOSE OF REMAINDER.
- STA. 29+00± TO 30+00±, 65'±LT., REMOVE WIRE ENCLOSED RIPRAP RUNDOWN AND STAKES. SALVAGE ROCK, DISPOSE OF REMAINDER.
- STA. 30+00± TO 31+00±, 65'±LT., REMOVE WIRE ENCLOSED RIPRAP RUNDOWN AND STAKES. SALVAGE ROCK, DISPOSE OF REMAINDER.
- STA. 31+00± TO 32+00±, 65'±LT., REMOVE WIRE ENCLOSED RIPRAP RUNDOWN AND STAKES. SALVAGE ROCK, DISPOSE OF REMAINDER.



**Southern Sandoval
County
Arroyo Flood Control
Authority**

1041 Commercial Dr. S.E.
Rio Rancho, New Mexico 87124
505-892-RAIN (7246)
505-892-7241 (Fax)
www.sscafca.com



**LOWER MONTOYAS ARROYO BANK
STABILIZATION PROJECT**

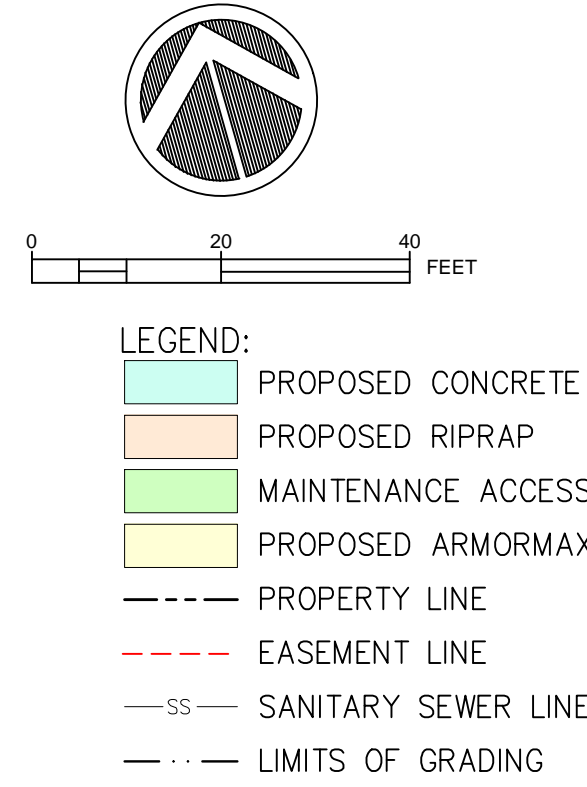
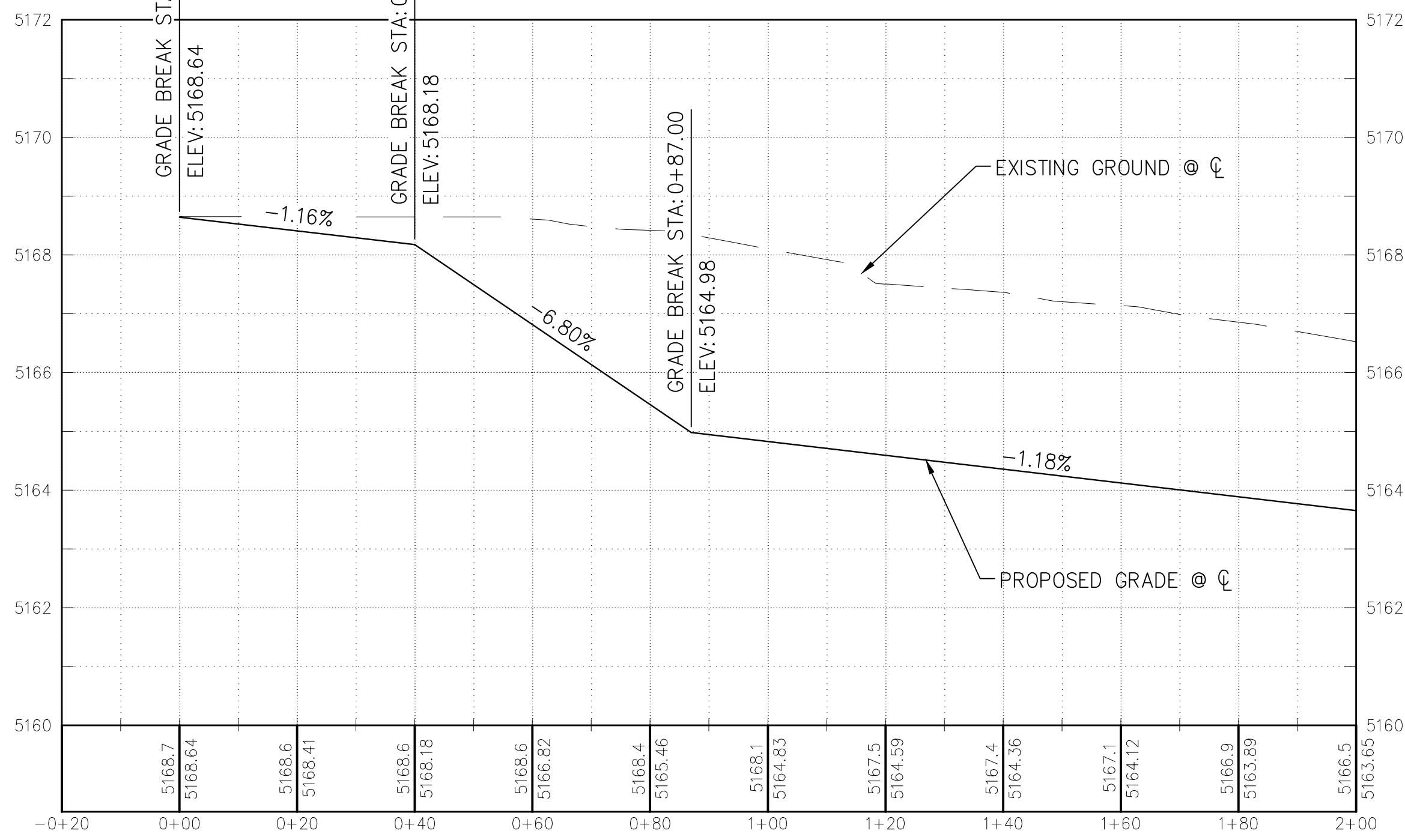
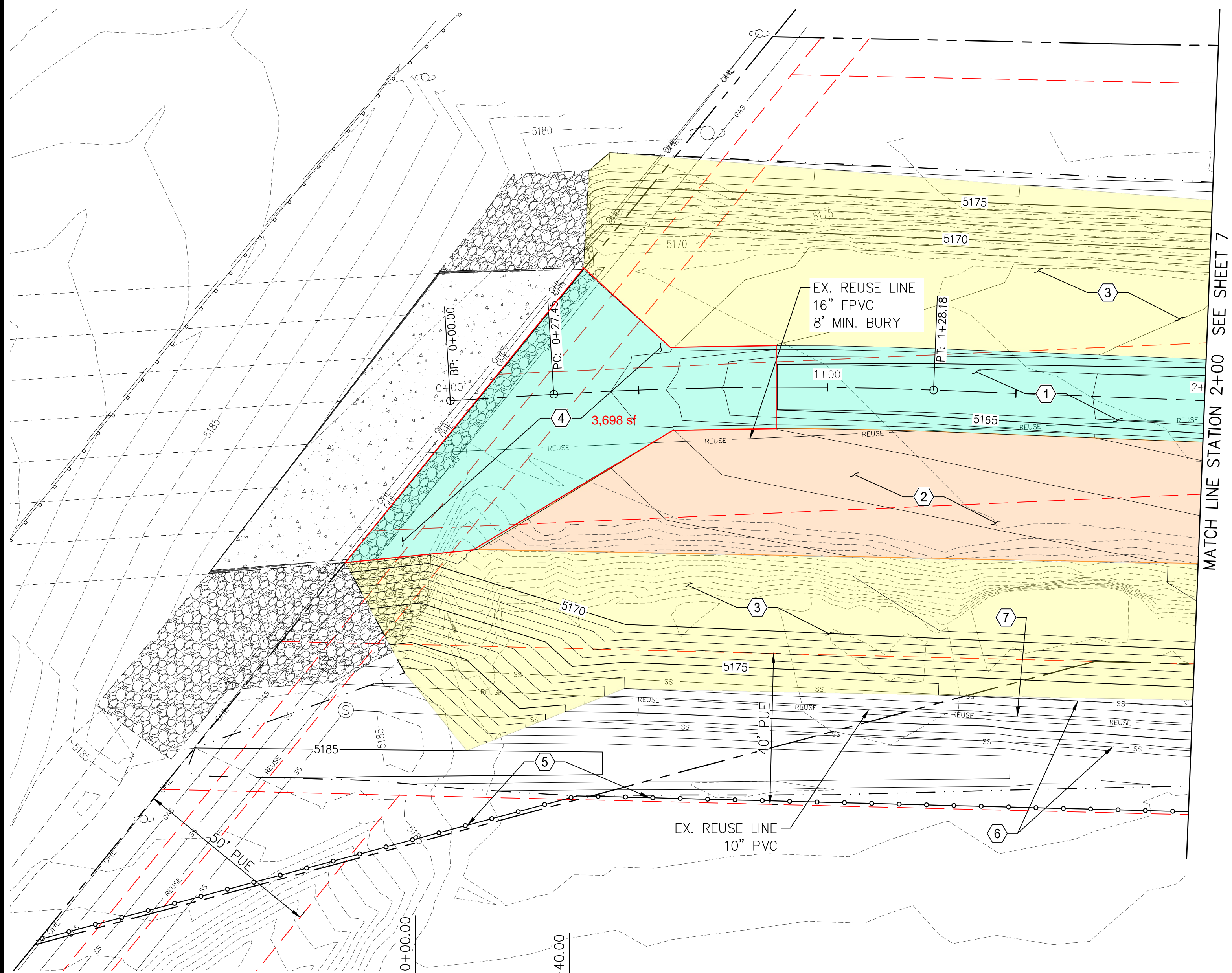
SITE REMOVALS PLAN

THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER
SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

REVISIONS & CHANGE NOTICES		
MARK	DESCRIPTION	DATE
1	REVISED NOTE	1/25/22

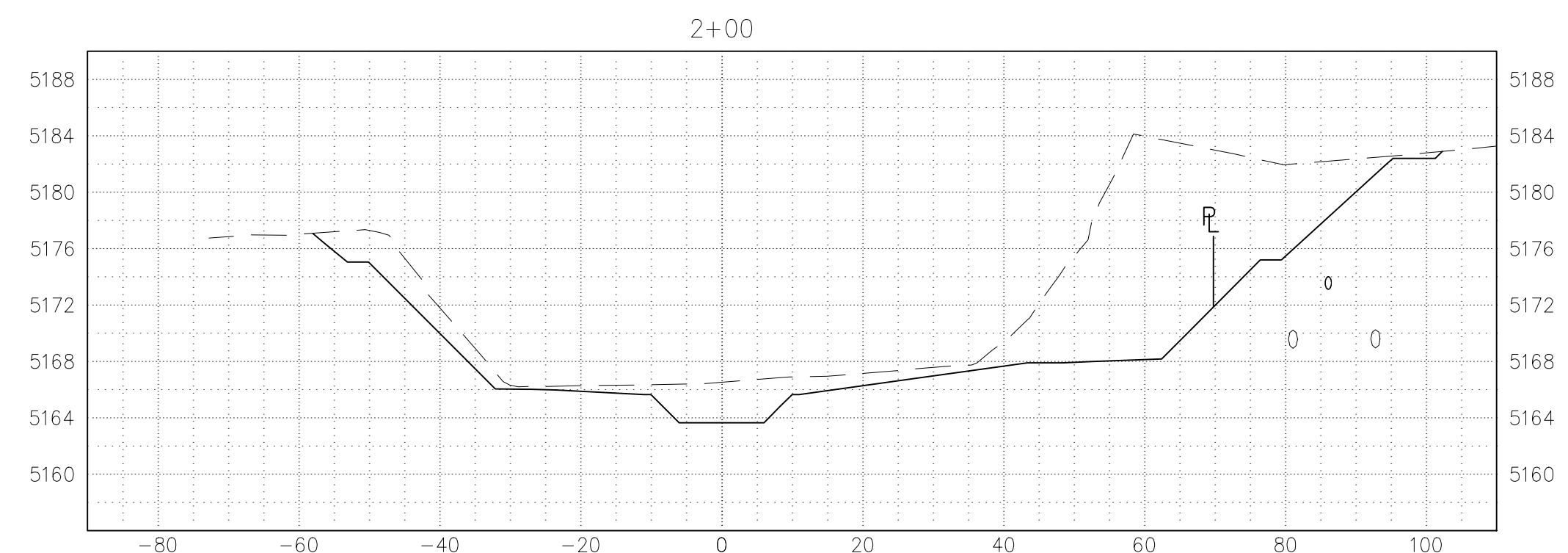
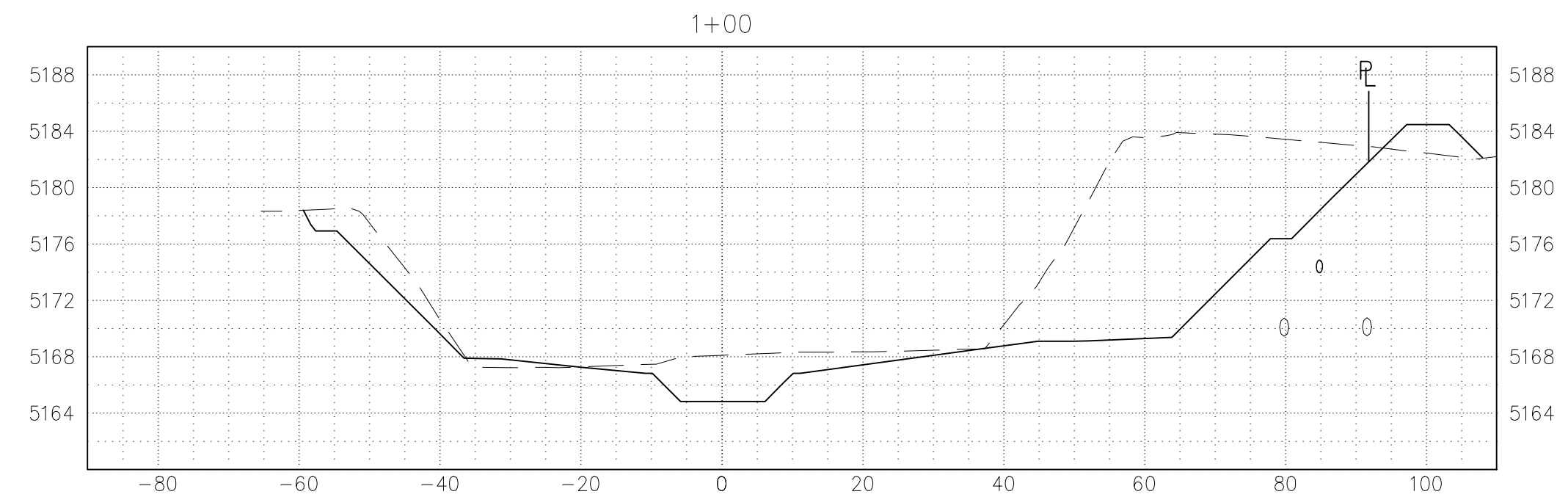
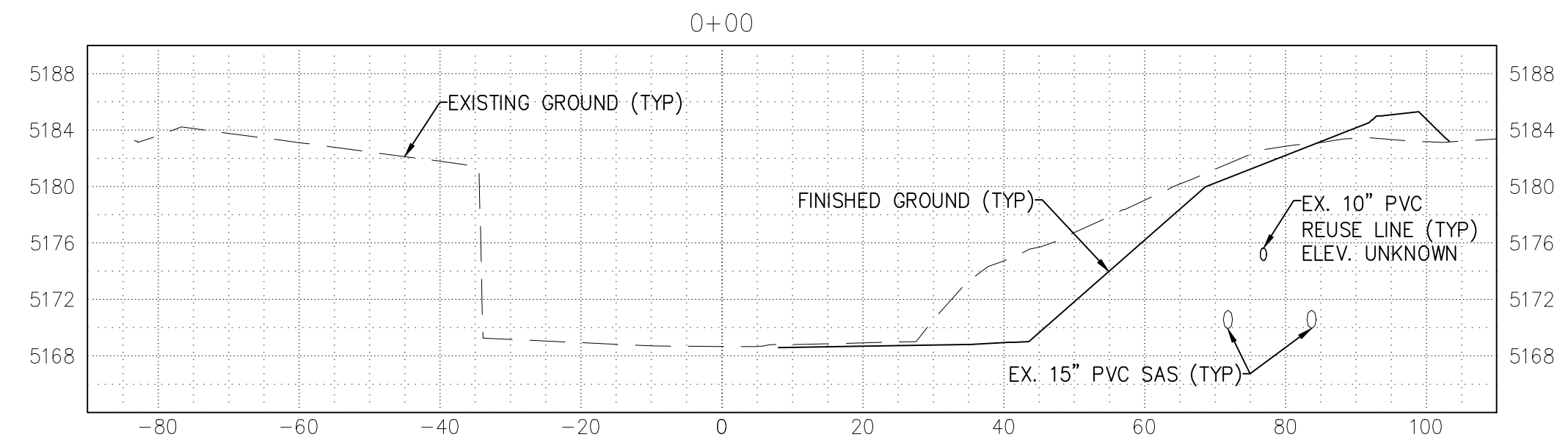
PROJECT NO: MO_P0029-01
DESIGNED BY: AES
DRAWN BY: KLF
CHECKED BY: JN
DATE: 1/6/2022

Friday, January 7, 2022 10:51:11 AM - FRED J. RIVER
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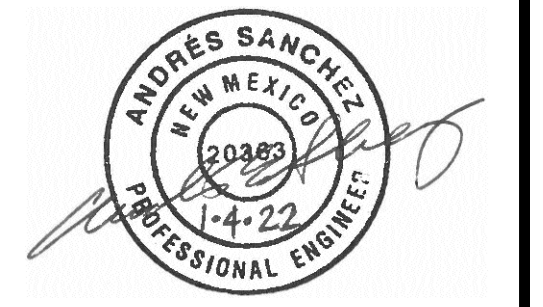
KEYED NOTES:

1. CONSTRUCT CONCRETE LOW FLOW CHANNEL PER DETAILS SHOWN ON SHEET 19.
2. CONSTRUCT TYPE L RIPRAP, 20" THICK, PER DETAIL SHOWN ON SHEET 17.
3. INSTALL ARMORMAX PER DETAILS SHOWN ON SHEET 20. TERMINATION OF ARMORMAX ADJACENT TO CONCRETE, GROUTED BOULDERS, OR RIPRAP SHALL FOLLOW DETAILS ON SHEET 20. NATIVE GRASS SEEDING WILL BE REQUIRED UNDER ALL ARMORMAX, SEE MANUFACTURERS VEGETATION ESTABLISHMENT SPECIFICATION ON SHEET 20.
4. CONSTRUCT CONCRETE SURFACE PER DETAILS SHOWN ON SHEET 18.
5. CONSTRUCT FENCE 0.5' INSIDE SOUTH PROPERTY LINE TO STA. 0+27.15, 107.12'± RT. THEN 0.5' INSIDE EASEMENT LINE ON SOUTH EDGE OF PROJECT AS SHOWN. SEE FENCE DETAIL ON SHEET 17.
6. ANY EXISTING 15" PVC SEWER LINE ENCOUNTERED SHALL BE REMOVED AND DISPOSED OF PER CITY OF RIO RANCHO MODIFIED APWA 801 SPECIFICATION.
7. DUE TO LACK OF LOCATION & ELEVATION INFORMATION ON EXISTING 10" REUSE LINE, IF ENCOUNTERED DURING CONSTRUCTION, IT SHALL BE RELOCATED, RAISED, OR LOWERED AS NEEDED, ACCORDING TO CORR STANDARDS, TO MAINTAIN A MIN. 36" COVER. ANY WORK PERFORMED ON THE EXISTING 10" REUSE LINE WILL BE REIMBURSED UNDER BID ITEM: 10" REUSE LINE RELOCATION.



Southern Sandoval County Arroyo Flood Control Authority

1041 Commercial Dr. S.E.
Rio Rancho, New Mexico 87124
505-892-RAIN (7246)
505-892-7241 (Fax)
www.sscafca.com



LOWER MONTOYAS ARROYO BANK STABILIZATION PROJECT

PLAN & PROFILE STA. 0+00 TO 2+00

THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45
DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

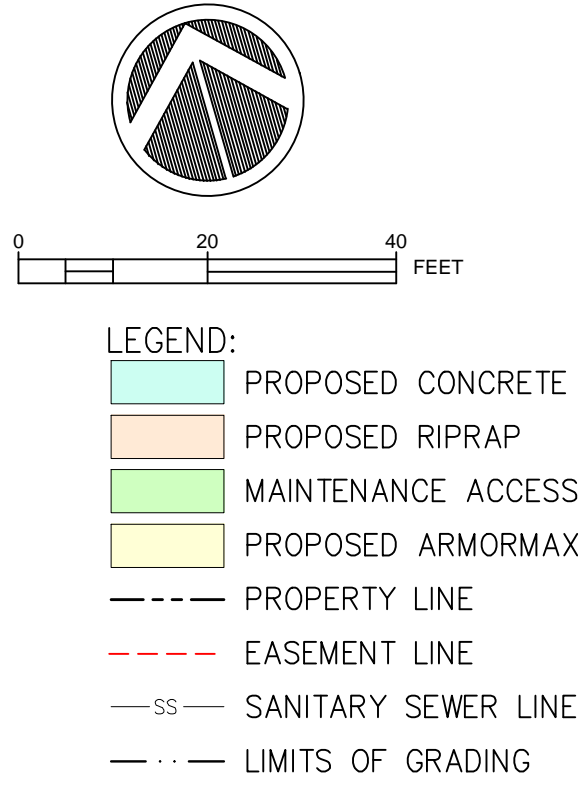
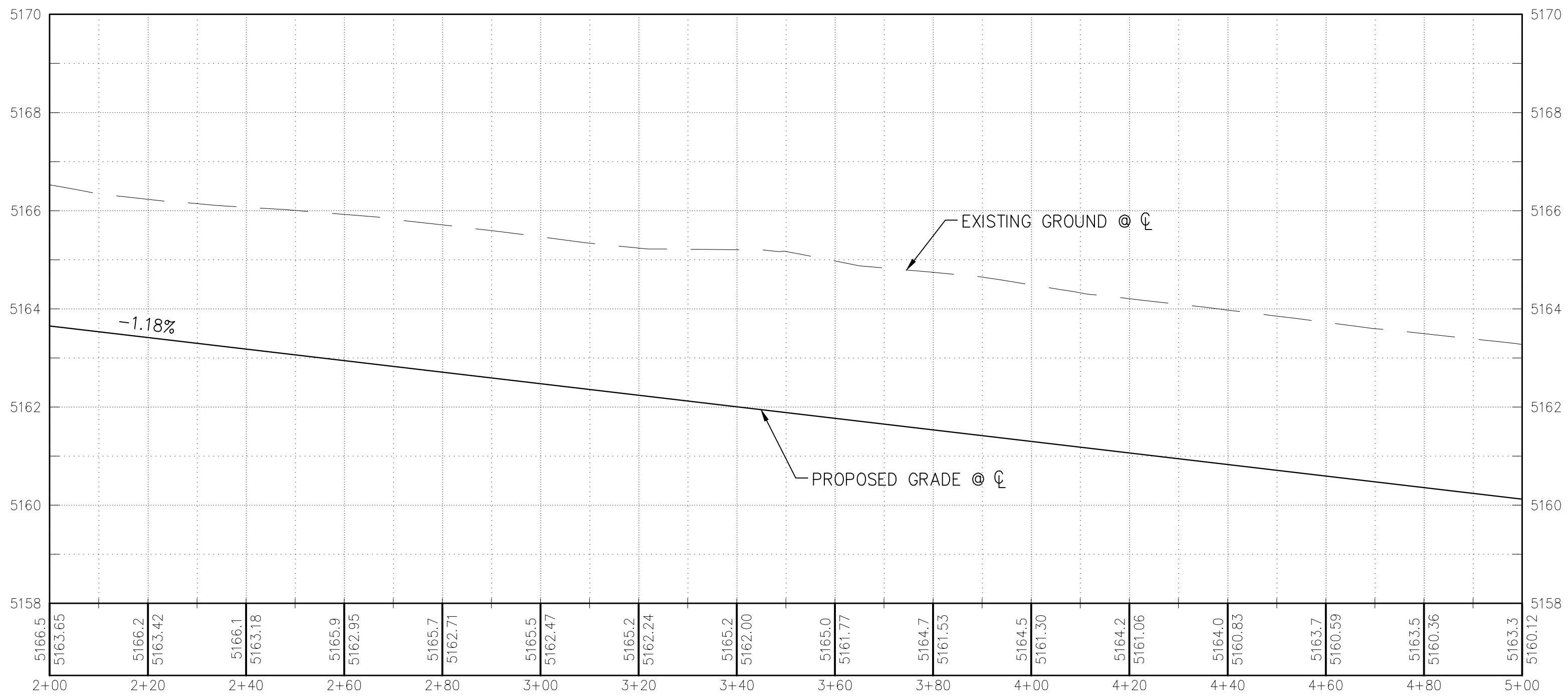
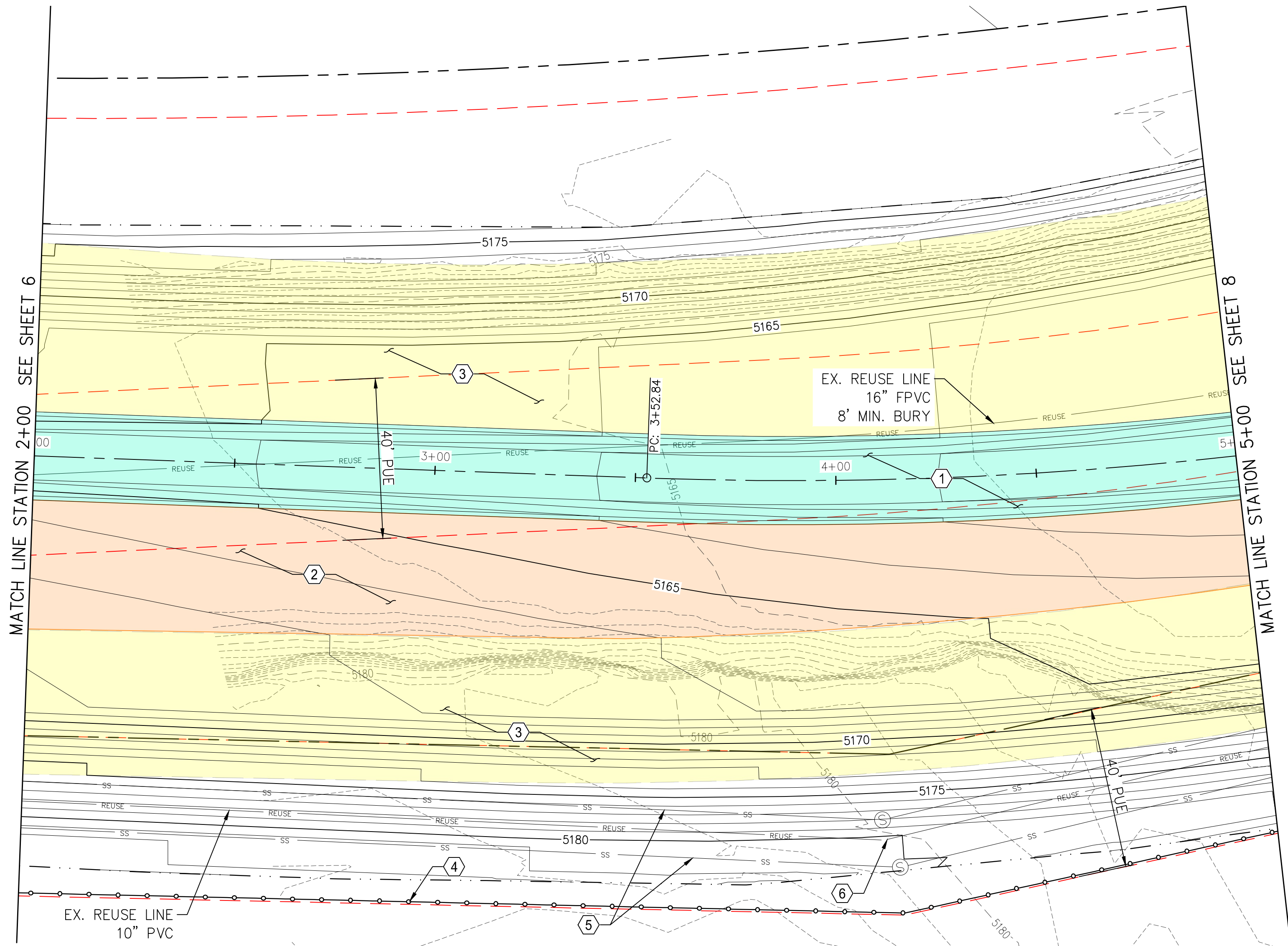
REVISIONS & CHANGE NOTICES		
MARK	DESCRIPTION	DATE

PROJECT NO: MO_P0029-01
DESIGNED BY: AES
DRAWN BY: KLF
CHECKED BY: JN
DATE: 1/7/2022

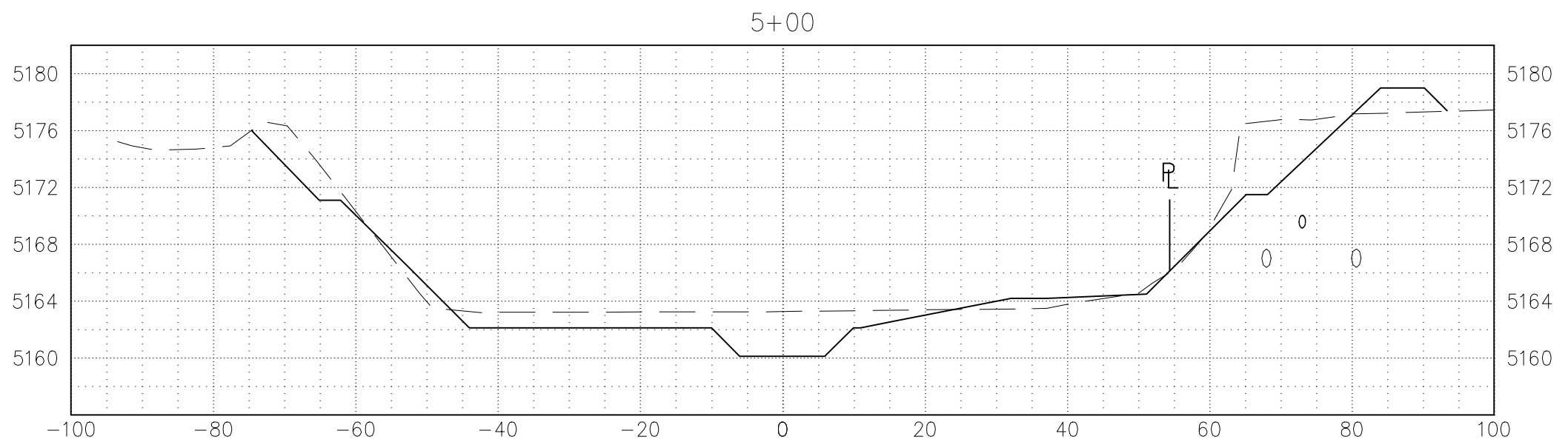
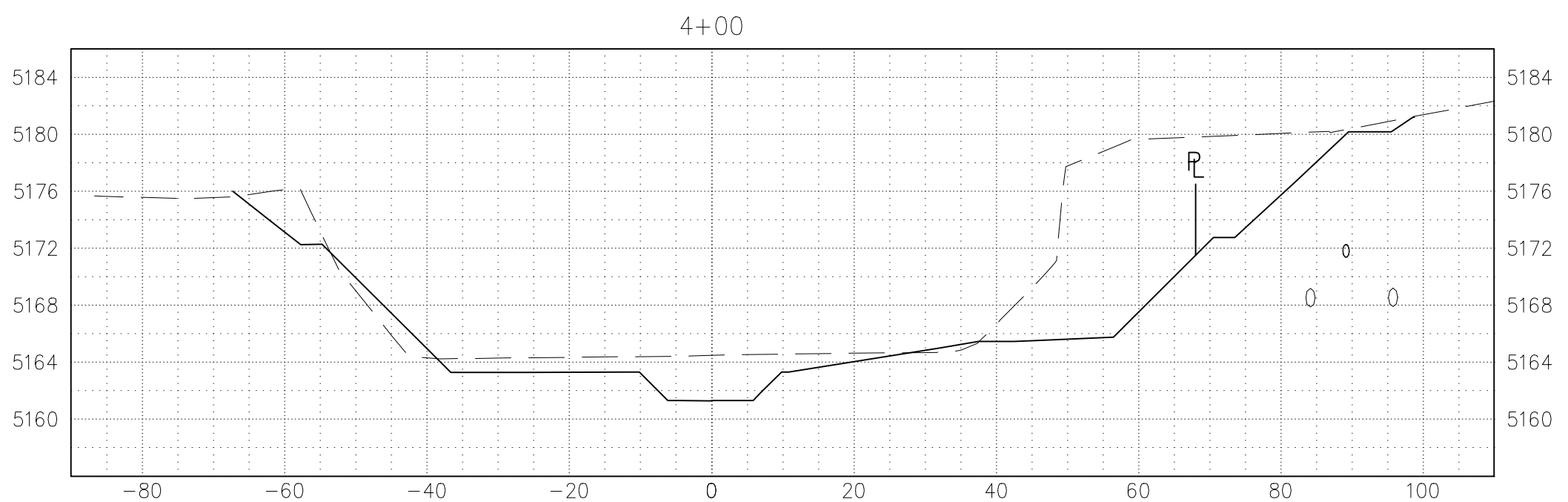
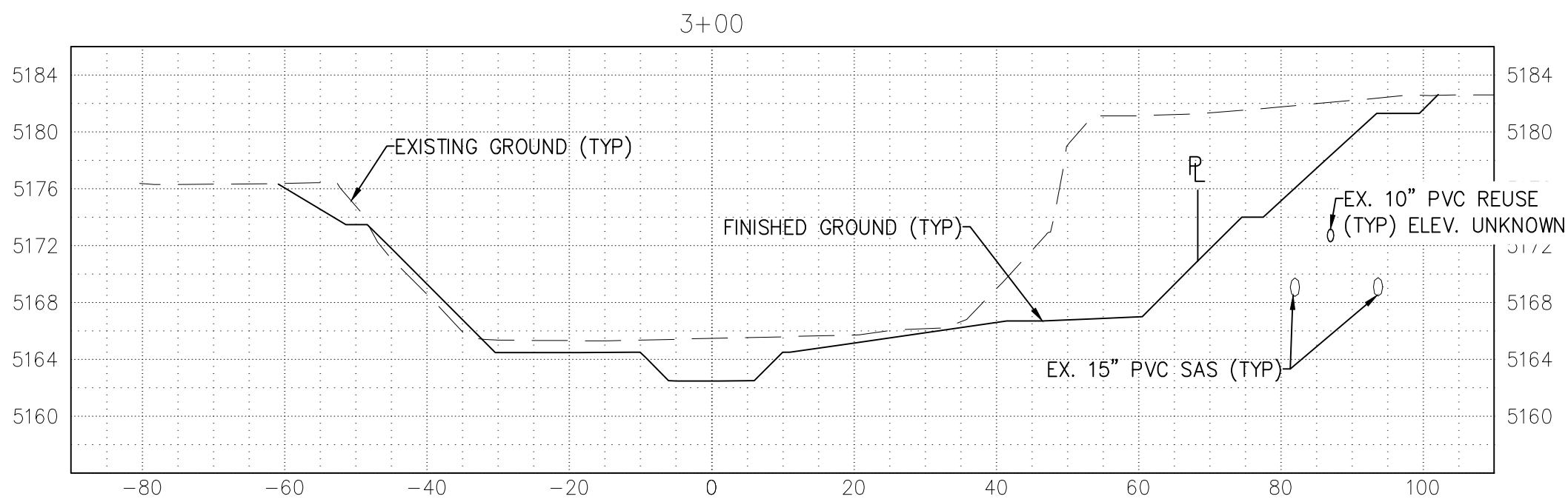
6

SHEET 6 OF 24

Friday, January 7, 2022 10:51:11 AM - FIDURNER
\\02.081.19\PUBLIC\DATA\SSCAFCA_PROJECT_FILES\MONTODAS\MO_P0029-01\AUTOCAD\PRODUCTION_DRAWINGS\PLAN_SETS\MO_P0029-01_PLANS.DWG



- KEYED NOTES:
1. CONSTRUCT CONCRETE LOW FLOW CHANNEL PER DETAILS SHOWN ON SHEET 19.
 2. CONSTRUCT TYPE L RIPRAP, 20" THICK, PER DETAIL SHOWN ON SHEET 17.
 3. INSTALL ARMORMAX PER DETAILS SHOWN ON SHEET 20. TERMINATION OF ARMORMAX ADJACENT TO CONCRETE, GROUTED BOULDERS, OR RIPRAP SHALL FOLLOW DETAILS ON SHEET 20. NATIVE GRASS SEEDING WILL BE REQUIRED UNDER ALL ARMORMAX, SEE MANUFACTURERS VEGETATION ESTABLISHMENT SPECIFICATION ON SHEET 20.
 4. UNLESS OTHERWISE SHOWN, CONSTRUCT FENCE 0.5' INSIDE EASEMENT LINE ON SOUTH EDGE OF PROJECT. SEE FENCE DETAIL ON SHEET 17.
 5. ANY EXISTING 15" PVC SEWER LINE ENCOUNTERED SHALL BE REMOVED AND DISPOSED OF PER CITY OF RIO RANCHO MODIFIED APWA 801 SPECIFICATION.
 6. DUE TO LACK OF LOCATION & ELEVATION INFORMATION ON EXISTING 10" REUSE LINE, IF ENCOUNTERED DURING CONSTRUCTION, IT SHALL BE RELOCATED, RAISED, OR LOWERED AS NEEDED, ACCORDING TO CORR STANDARDS, TO MAINTAIN A MIN. 36" COVER. ANY WORK PERFORMED ON THE EXISTING 10" REUSE LINE WILL BE REIMBURSED UNDER BID ITEM: 10" REUSE LINE RELOCATION.





**Southern Sandoval
County
Arroyo Flood Control
Authority**

1041 Commercial Dr. S.E.
Rio Rancho, New Mexico 87124
505-892-RAIN (7246)
505-892-7241 (Fax)
www.sscafca.com



**LOWER MONTOYAS ARROYO BANK
STABILIZATION PROJECT**

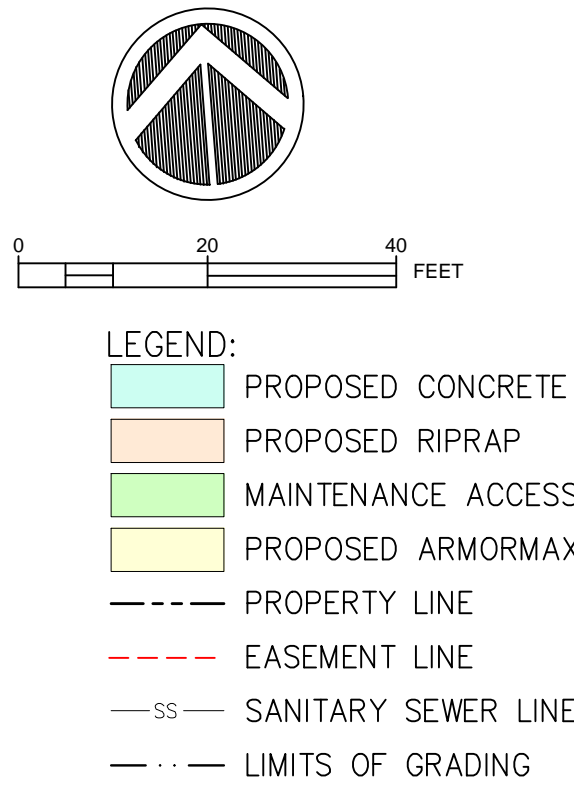
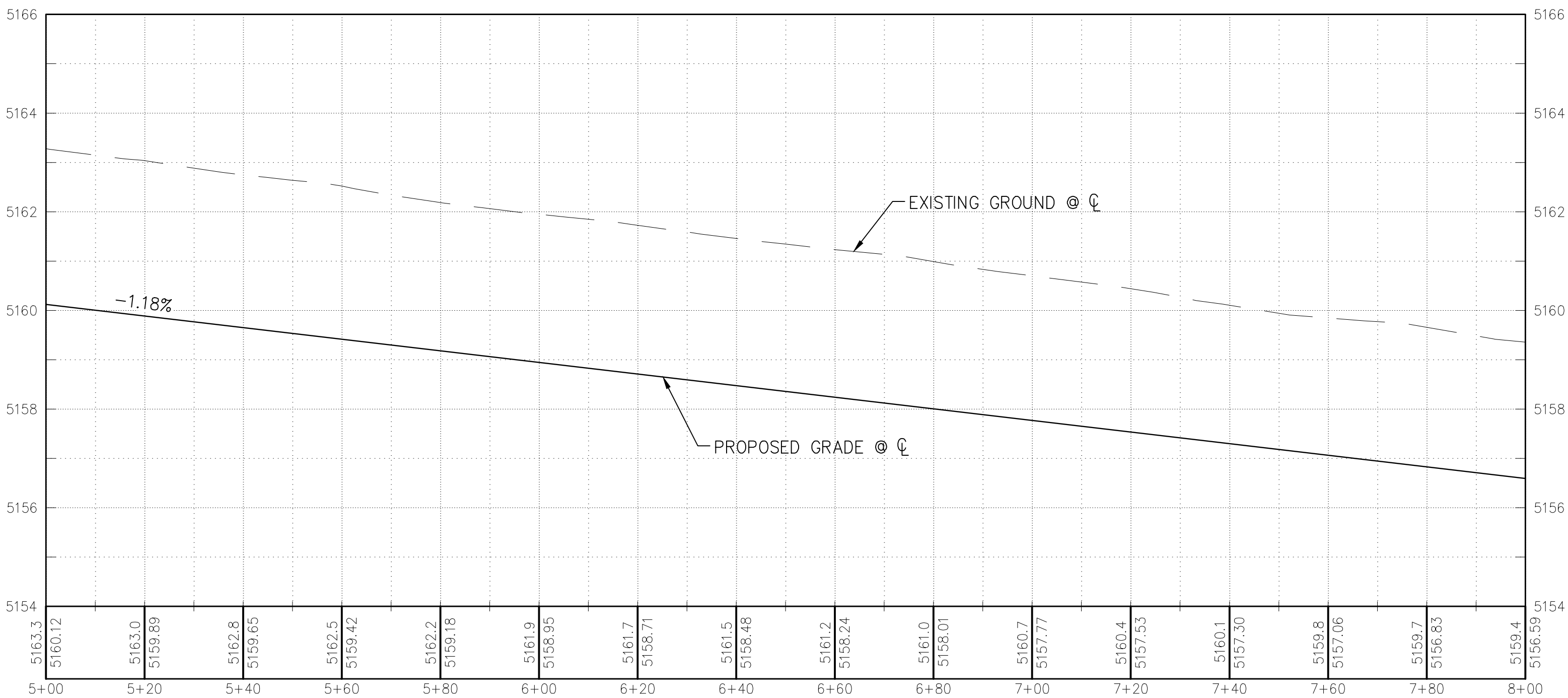
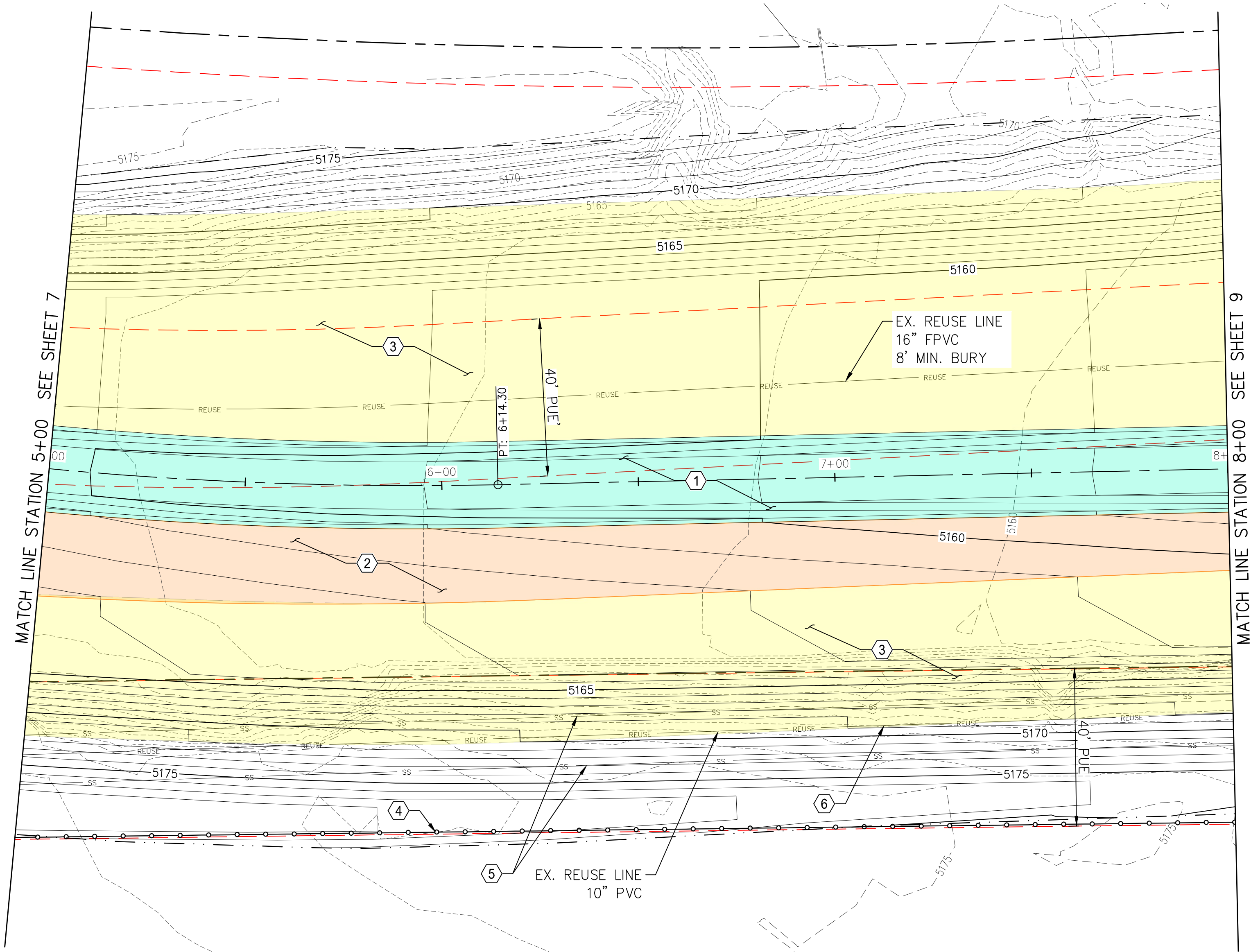
**PLAN & PROFILE
STA. 2+00 TO 5+00**

THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

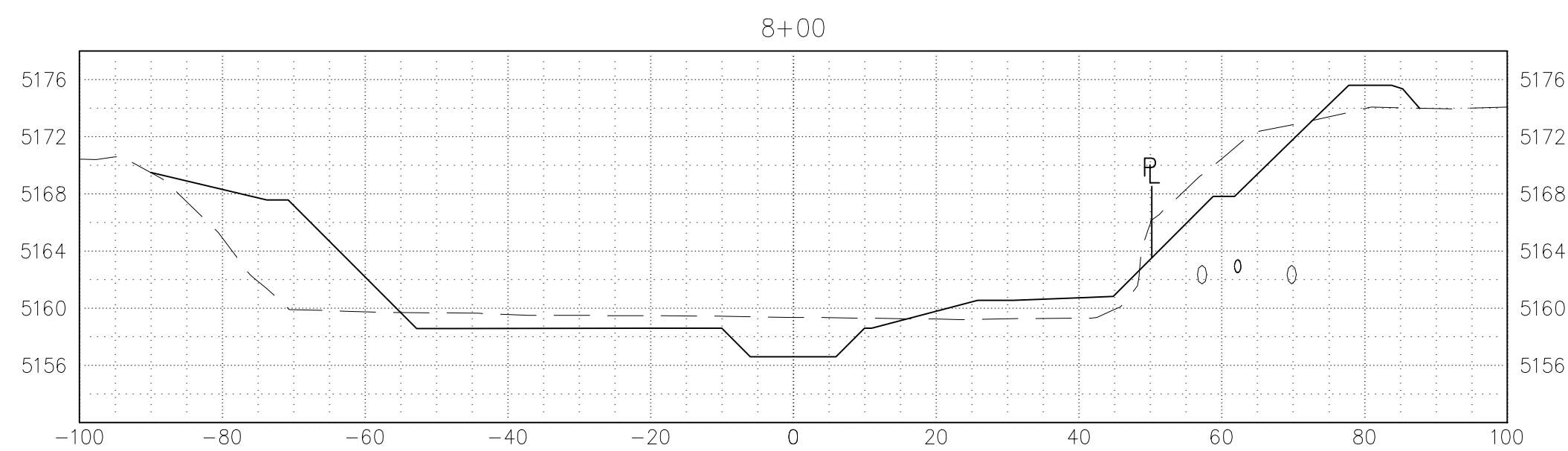
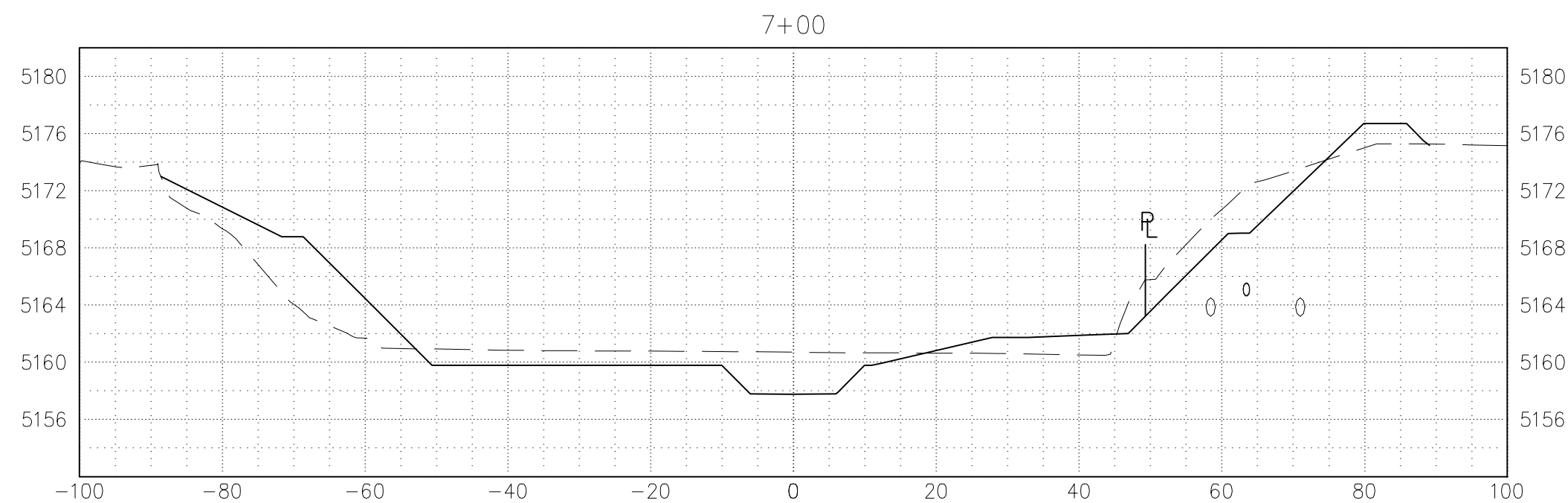
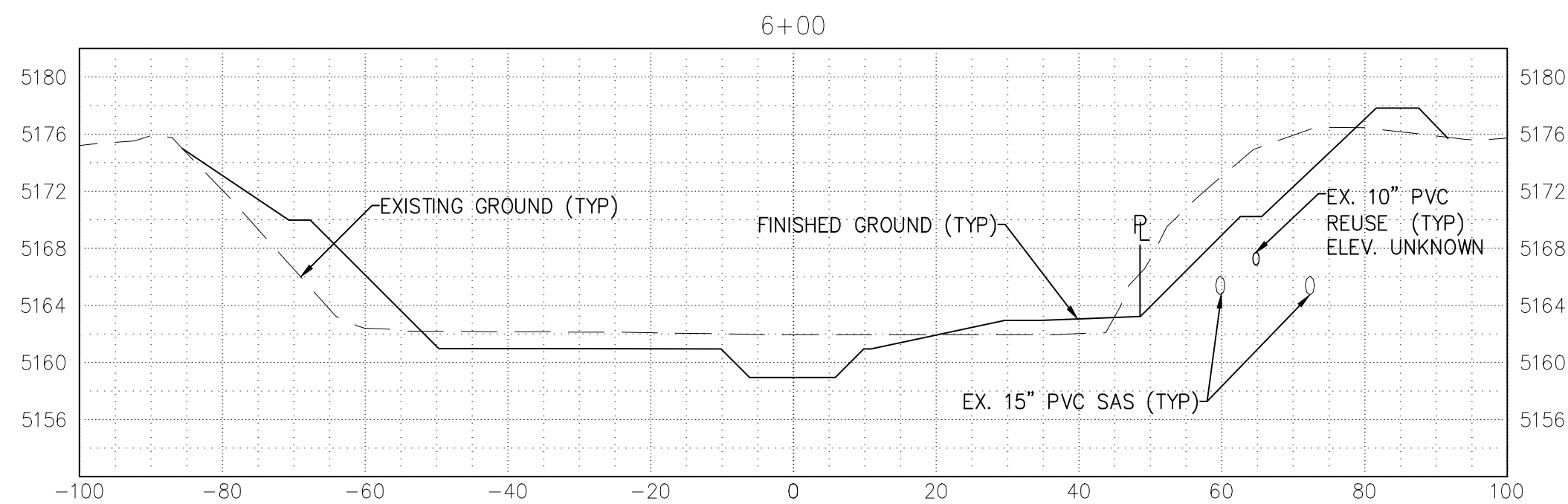
REVISIONS & CHANGE NOTICES		
MARK	DESCRIPTION	DATE

PROJECT NO: MO_P0029-01
DESIGNED BY: AES
DRAWN BY: KLF
CHECKED BY: JN
DATE: 1/7/2022

Friday, January 7, 2022 10:51:11 AM - KFORNER
\\192.168.1.9\public\DATA\SSCAFECA_PROJECT_FILES\MONTODAS\MO_P0029-01\AUTOCAD\PRODUCTION_DRAWINGS\PLAN\SETA\MO_P0029-01_PLANS.DWG



- KEYED NOTES:
1. CONSTRUCT CONCRETE LOW FLOW CHANNEL PER DETAILS SHOWN ON SHEET 19.
 2. CONSTRUCT TYPE L RIPRAP, 20" THICK, PER DETAIL SHOWN ON SHEET 17.
 3. INSTALL ARMORMAX PER DETAILS SHOWN ON SHEET 20. TERMINATION OF ARMORMAX ADJACENT TO CONCRETE, GROUTED BOULDERS, OR RIPRAP SHALL FOLLOW DETAILS ON SHEET 20. NATIVE GRASS SEEDING WILL BE REQUIRED UNDER ALL ARMORMAX, SEE MANUFACTURERS VEGETATION ESTABLISHMENT SPECIFICATION ON SHEET 20.
 4. UNLESS OTHERWISE SHOWN, CONSTRUCT FENCE 0.5' INSIDE EASEMENT LINE ON SOUTH EDGE OF PROJECT. SEE FENCE DETAIL ON SHEET 17.
 5. ANY EXISTING 15" PVC SEWER LINE ENCOUNTERED SHALL BE REMOVED AND DISPOSED OF PER CITY OF RIO RANCHO MODIFIED APWA 801 SPECIFICATION.
 6. DUE TO LACK OF LOCATION & ELEVATION INFORMATION ON EXISTING 10" REUSE LINE, IF ENCOUNTERED DURING CONSTRUCTION, IT SHALL BE RELOCATED, RAISED, OR LOWERED AS NEEDED, ACCORDING TO CORR STANDARDS, TO MAINTAIN A MIN. 36" COVER. ANY WORK PERFORMED ON THE EXISTING 10" REUSE LINE WILL BE REIMBURSED UNDER BID ITEM: 10" REUSE LINE RELOCATION.



**Southern Sandoval
County
Arroyo Flood Control
Authority**

1041 Commercial Dr. S.E.
Rio Rancho, New Mexico 87124
505-892-RAIN (7246)
505-892-7241 (Fax)
www.sscafca.com



LOWER MONTOYAS ARROYO BANK
STABILIZATION PROJECT

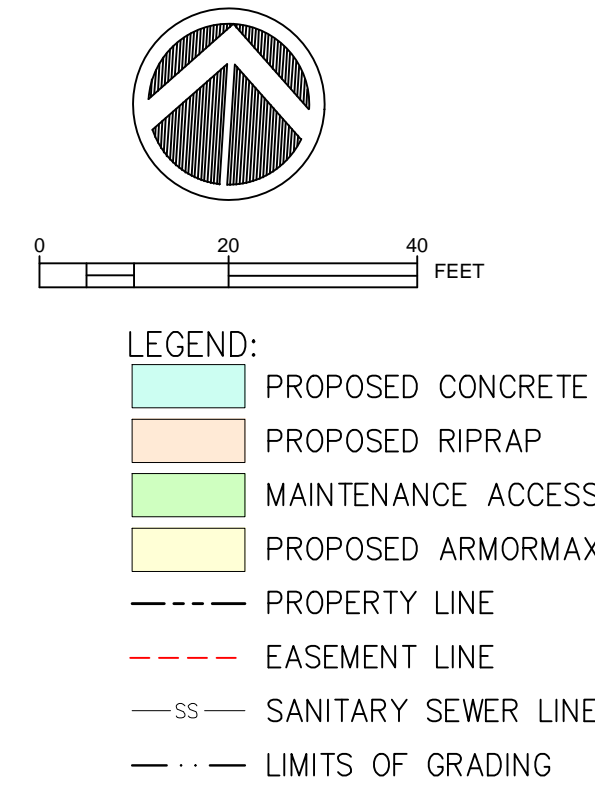
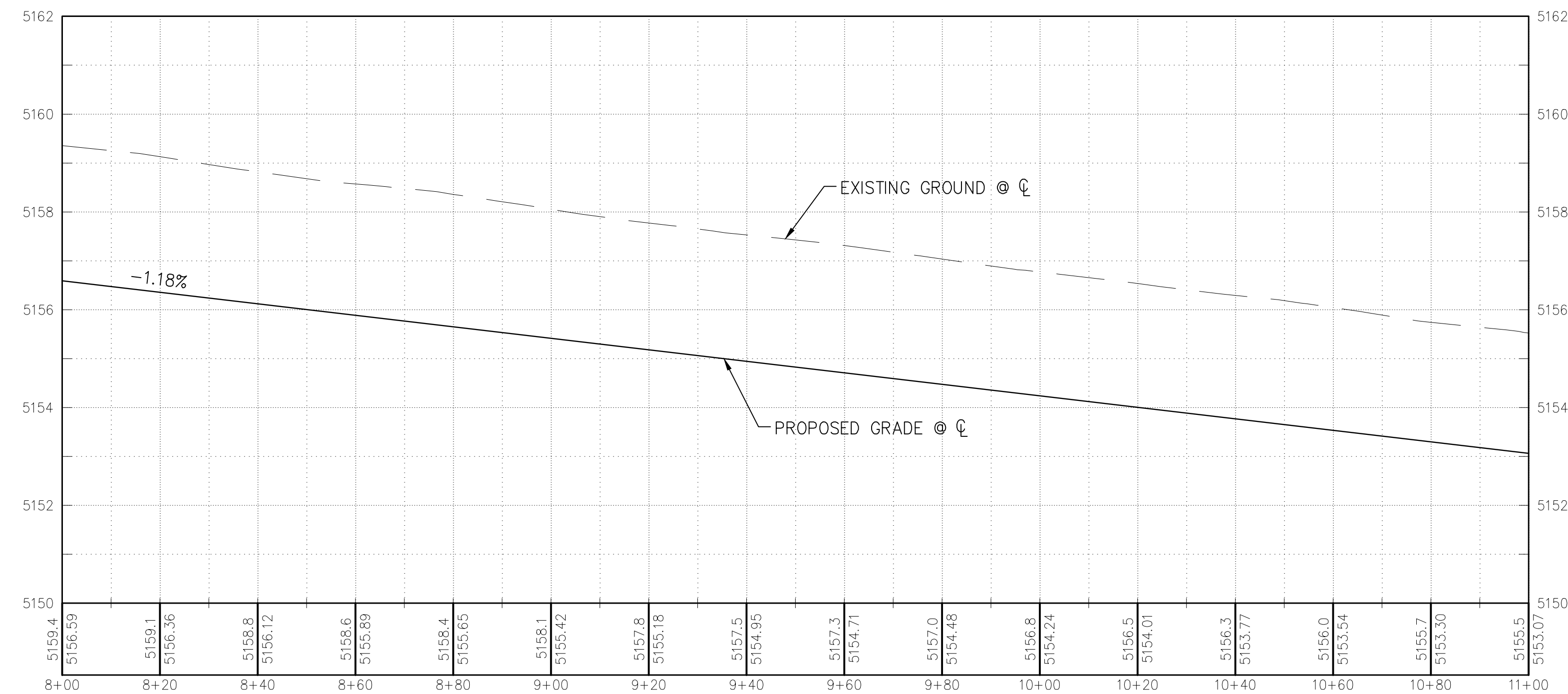
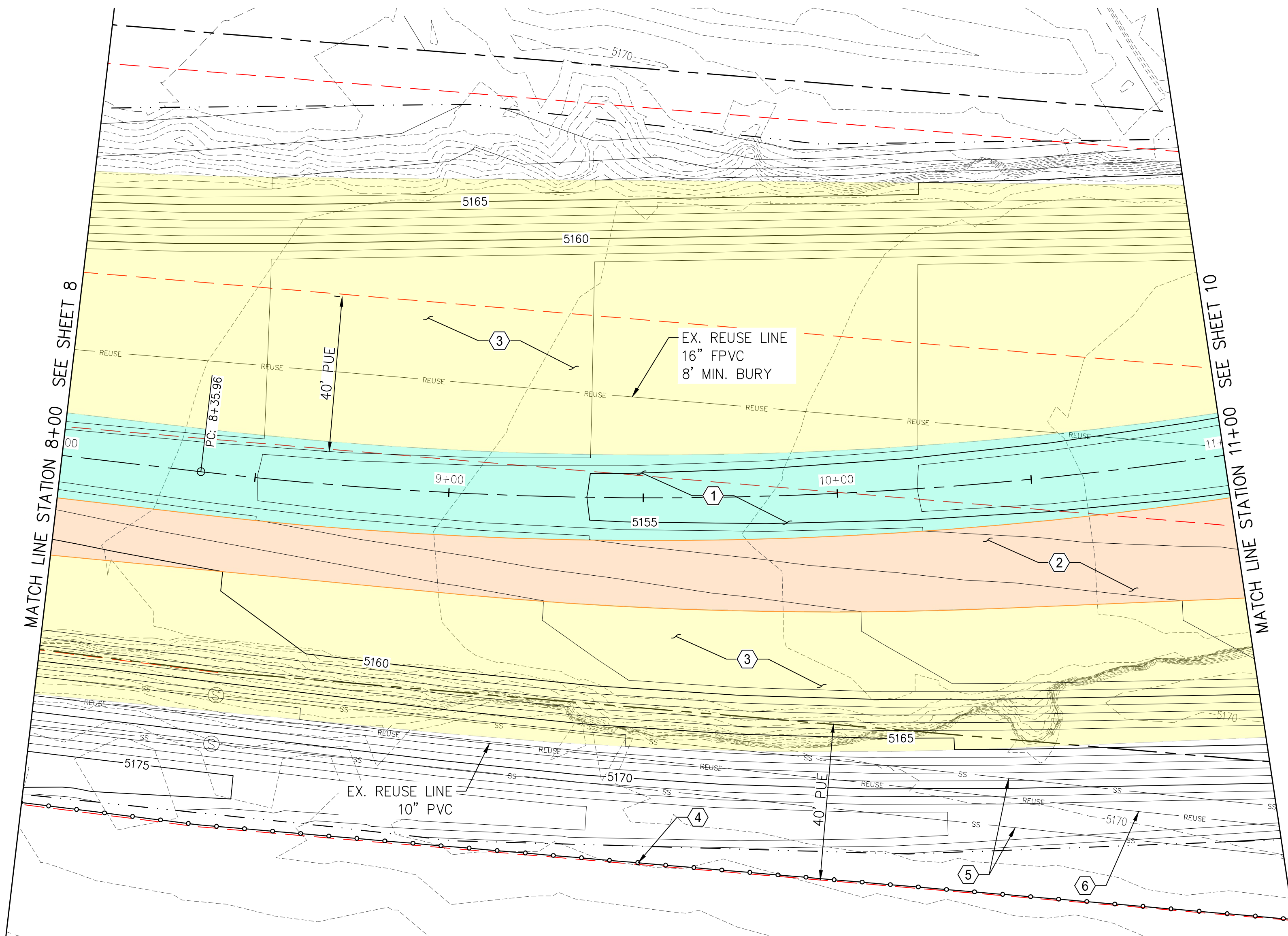
PLAN & PROFILE
STA. 5+00 TO 8+00

THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45
DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

REVISIONS & CHANGE NOTICES		
MARK	DESCRIPTION	DATE

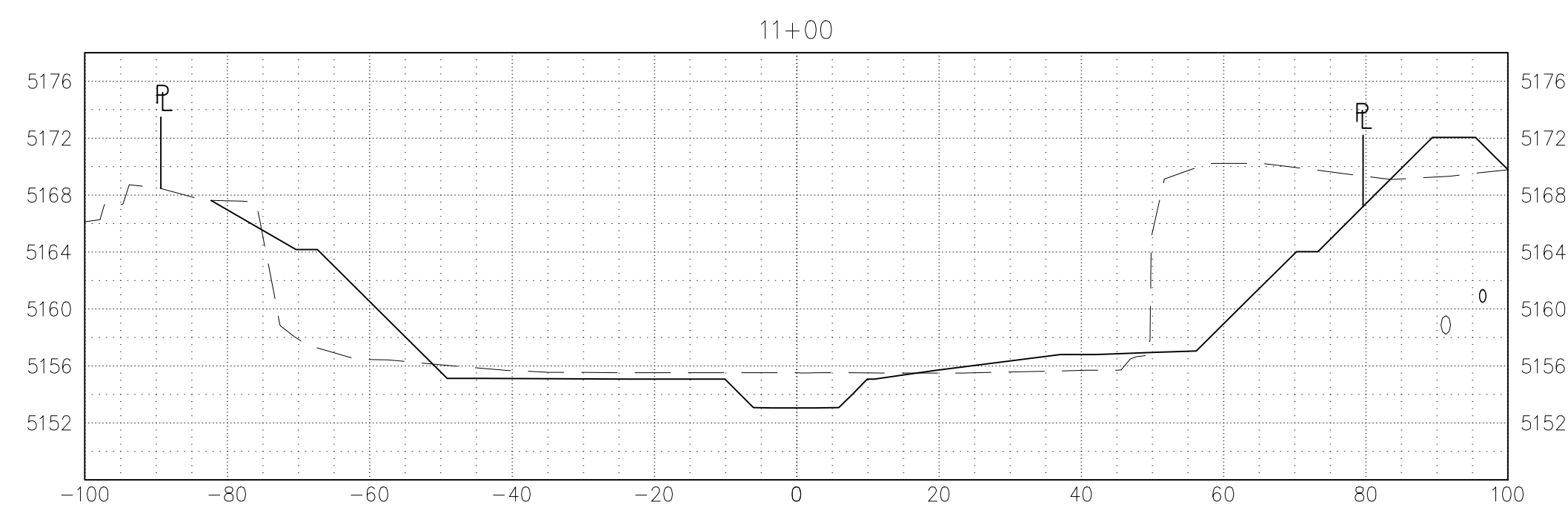
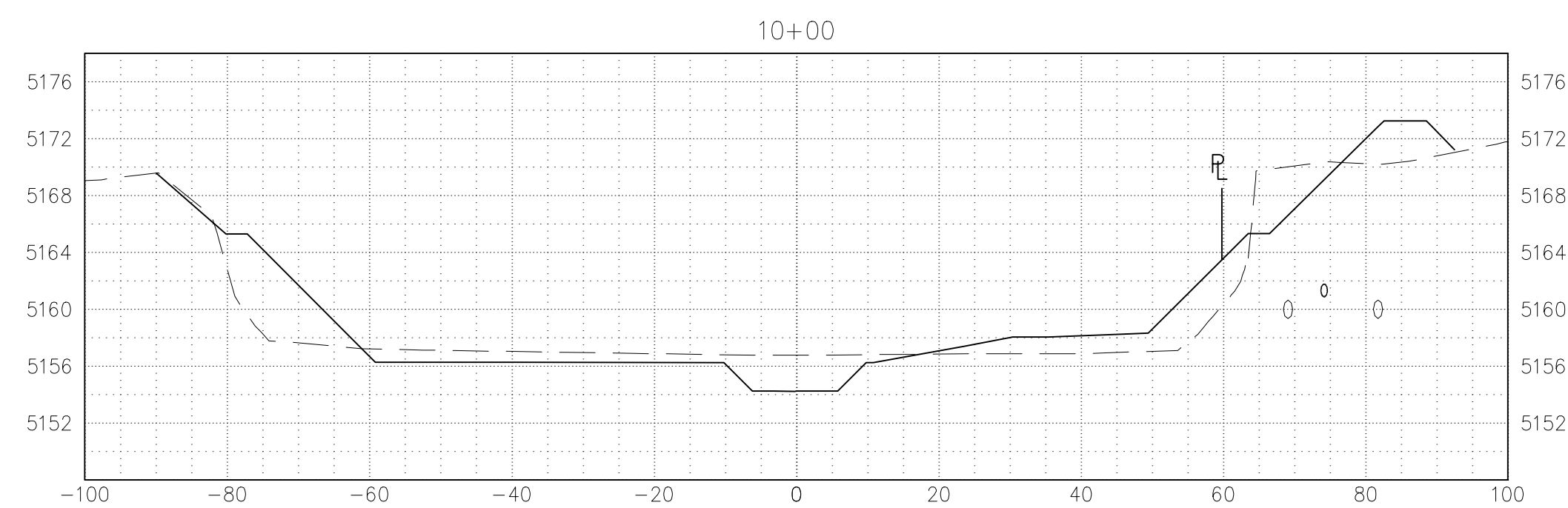
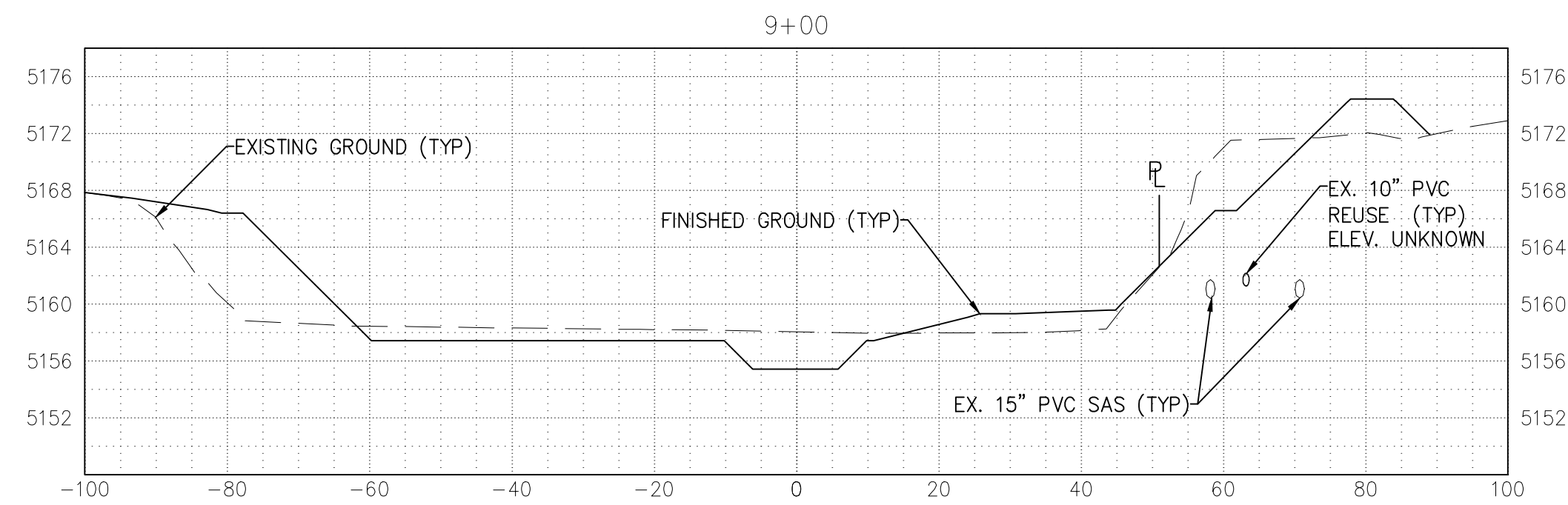
PROJECT NO: MO_P0029-01
DESIGNED BY: AES
DRAWN BY: KLF
CHECKED BY: JN
DATE: 1/7/2022

Friday, January 7, 2022 10:51:11 AM - FJOURNER
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KEYED NOTES:

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6. DUE TO LACK OF LOCATION & ELEVATION INFORMATION ON EXISTING 10" REUSE LINE, IF ENCOUNTERED DURING CONSTRUCTION, IT SHALL BE RELOCATED, RAISED, OR LOWERED AS NEEDED, ACCORDING TO CORR STANDARDS, TO MAINTAIN A MIN. 36" COVER. ANY WORK PERFORMED ON THE EXISTING 10" REUSE LINE WILL BE REIMBURSED UNDER BID ITEM: 10" REUSE LINE RELOCATION.



Southern Sandoval County Arroyo Flood Control Authority

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505-892-7241 (Fax)
www.sscatca.com



LOWER MONTOYAS ARROYO BANK STABILIZATION PROJECT

PLAN & PROFILE STA. 8+00 TO 11+00

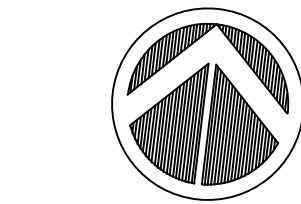
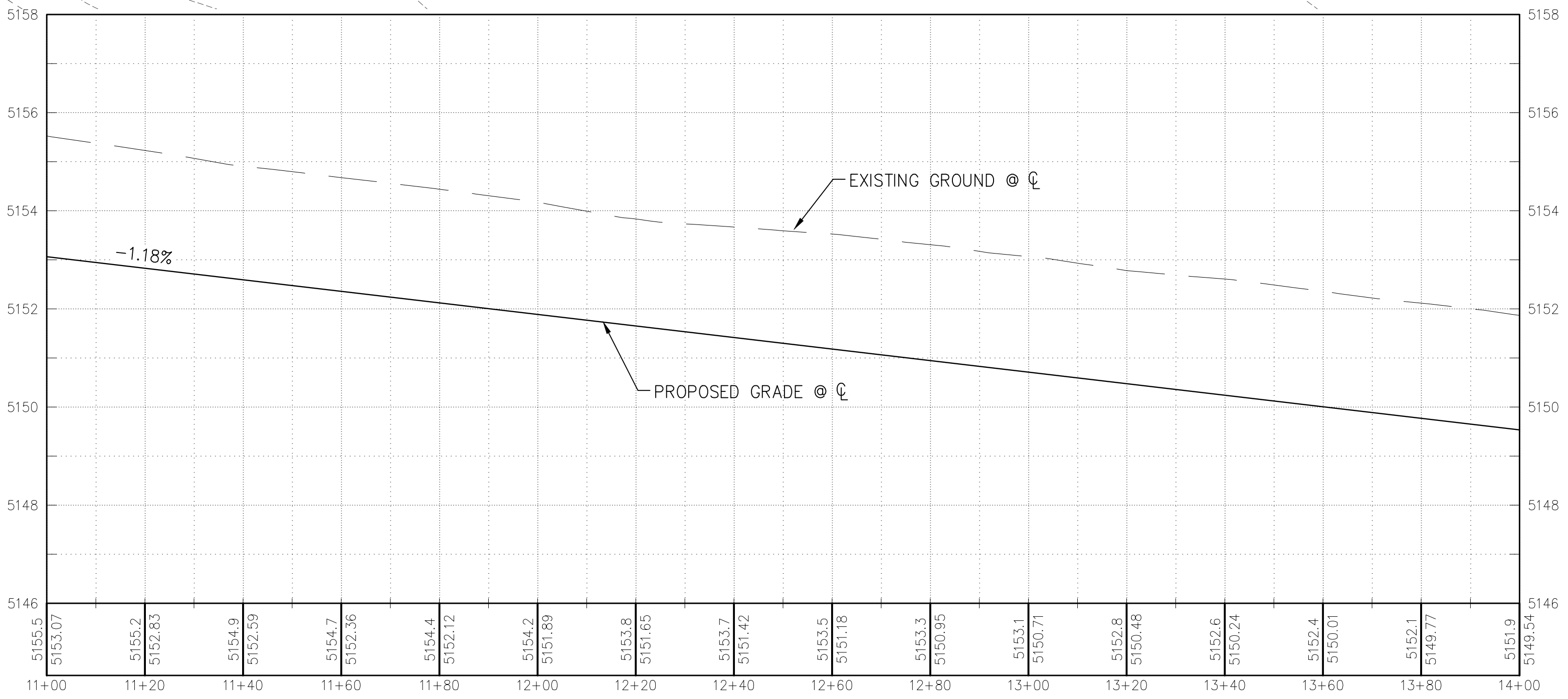
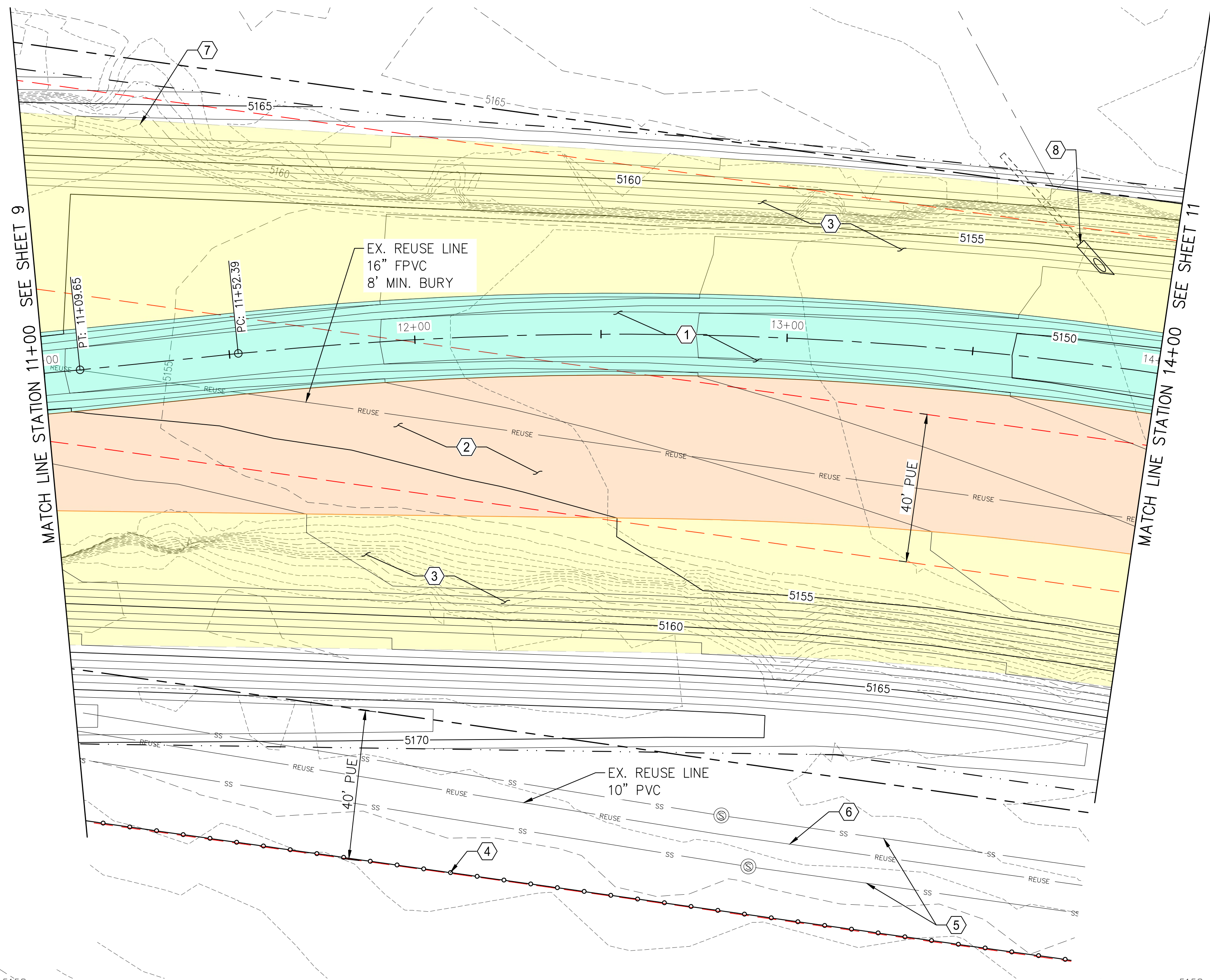
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45
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REVISIONS & CHANGE NOTICES

MARK	DESCRIPTION	DATE

PROJECT NO: MO_P0029-01
DESIGNED BY: AES
DRAWN BY: KLF
CHECKED BY: JN
DATE: 1/7/2022

Friday, January 7, 2022 10:51:11 AM - JFURNER
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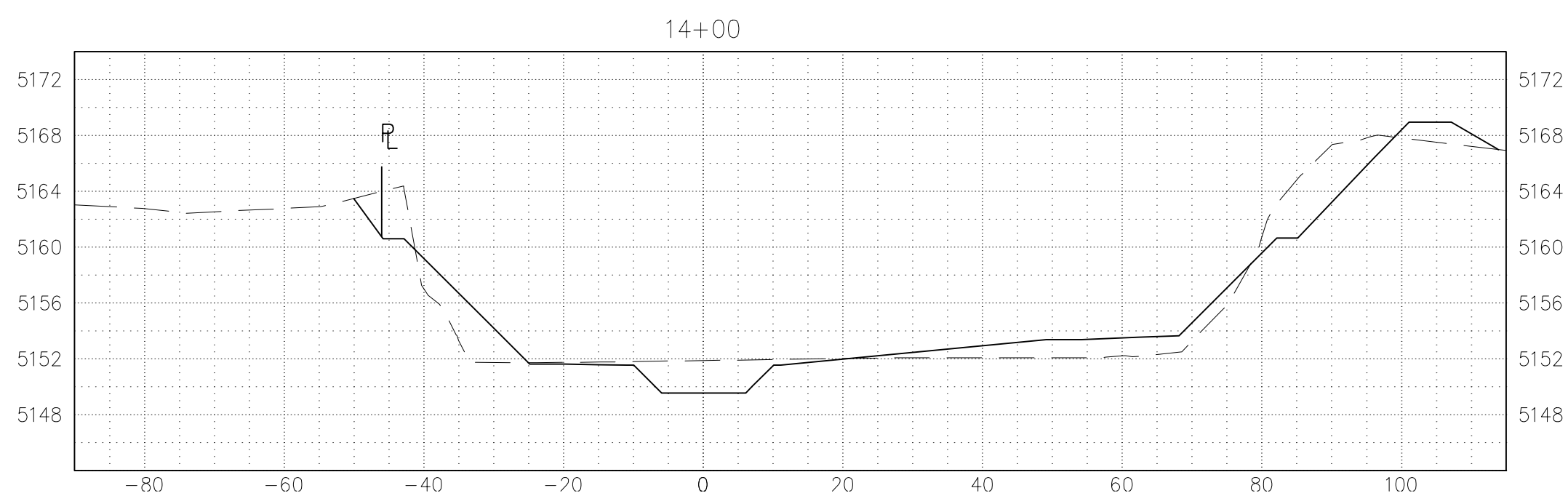
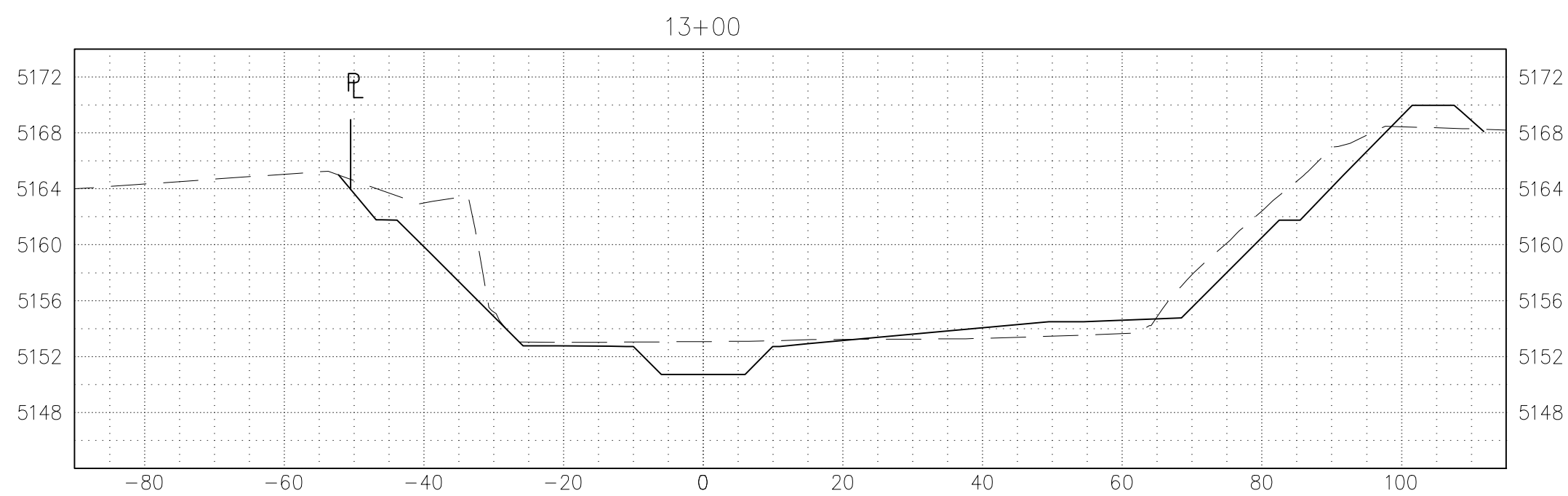
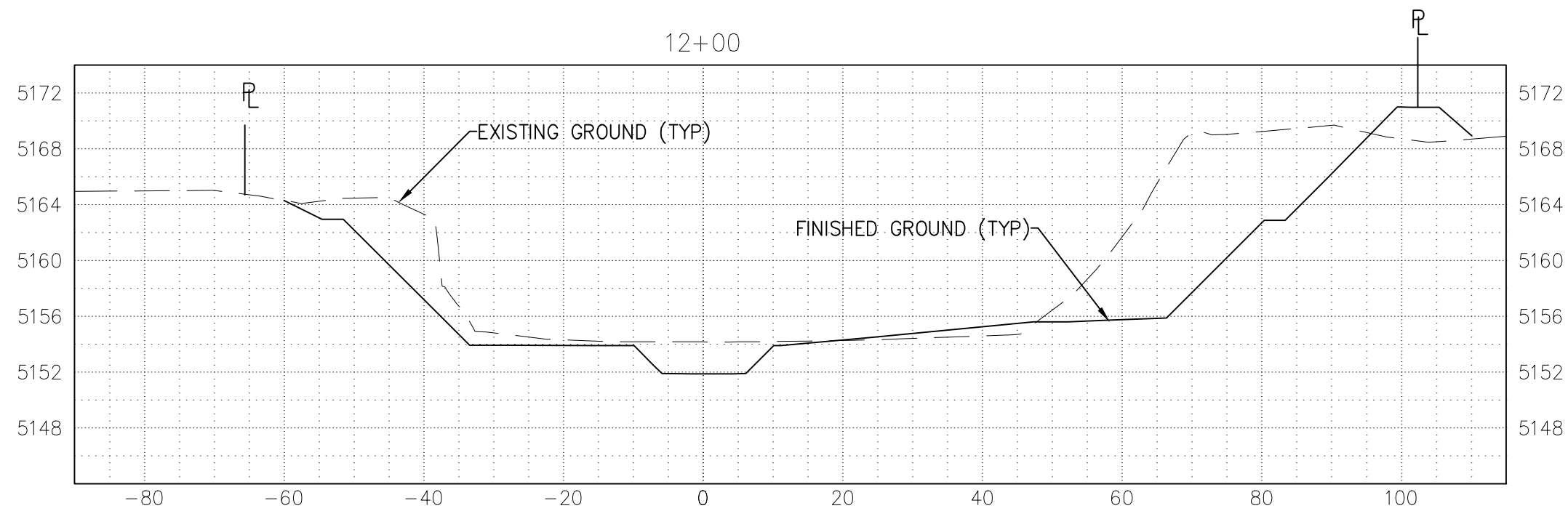


0 20 40 FEET

- LEGEND:
- PROPOSED CONCRETE
 - PROPOSED RIPRAP
 - MAINTENANCE ACCESS
 - PROPOSED ARMORMAX
 - PROPERTY LINE
 - EASEMENT LINE
 - SANITARY SEWER LINE
 - LIMITS OF GRADING

KEYED NOTES:

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5. ANY EXISTING 15" PVC SEWER LINE ENCOUNTERED SHALL BE REMOVED AND DISPOSED OF PER CITY OF RIO RANCHO MODIFIED APWA 801 SPECIFICATION.
6. DUE TO LACK OF LOCATION & ELEVATION INFORMATION ON EXISTING 10" REUSE LINE, IF ENCOUNTERED DURING CONSTRUCTION, IT SHALL BE RELOCATED, RAISED, OR LOWERED AS NEEDED, ACCORDING TO CORR STANDARDS, TO MAINTAIN A MIN. 36" COVER. ANY WORK PERFORMED ON THE EXISTING 10" REUSE LINE WILL BE REIMBURSED UNDER BID ITEM: 10" REUSE LINE RELOCATION.
7. CONTRACTOR TO ADJUST TOP OF ARMORMAX PLACEMENT TO ALLOW EXISTING OFFSITE DRAINAGE TO FLOW OVER TOP OF NEW ARMORMAX. THE GOAL IS TO PREVENT PONDING BEHIND ARMORMAX.
8. EXTEND EXISTING 18" CMP AS NEEDED AND CONSTRUCT SINGLE METAL PIPE CONCRETE BLANKET W/OUT SAFETY GRATE PER NMDOT STD DWG 511-11-1/2 AND 2/2/ SEE STRUCTURE PLACEMENT SECTION ON DETAIL SHEET 17.



**Southern Sandoval
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Arroyo Flood Control
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505-892-7241 (Fax)
www.sscafca.com



**LOWER MONTOYAS ARROYO BANK
STABILIZATION PROJECT**

**PLAN & PROFILE
STA. 11+00 TO 14+00**

THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

REVISIONS &
CHANGE NOTICES

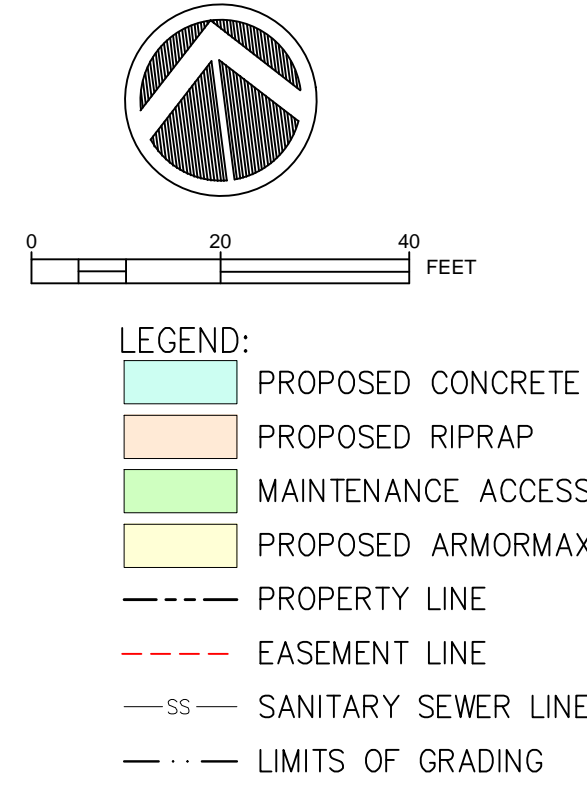
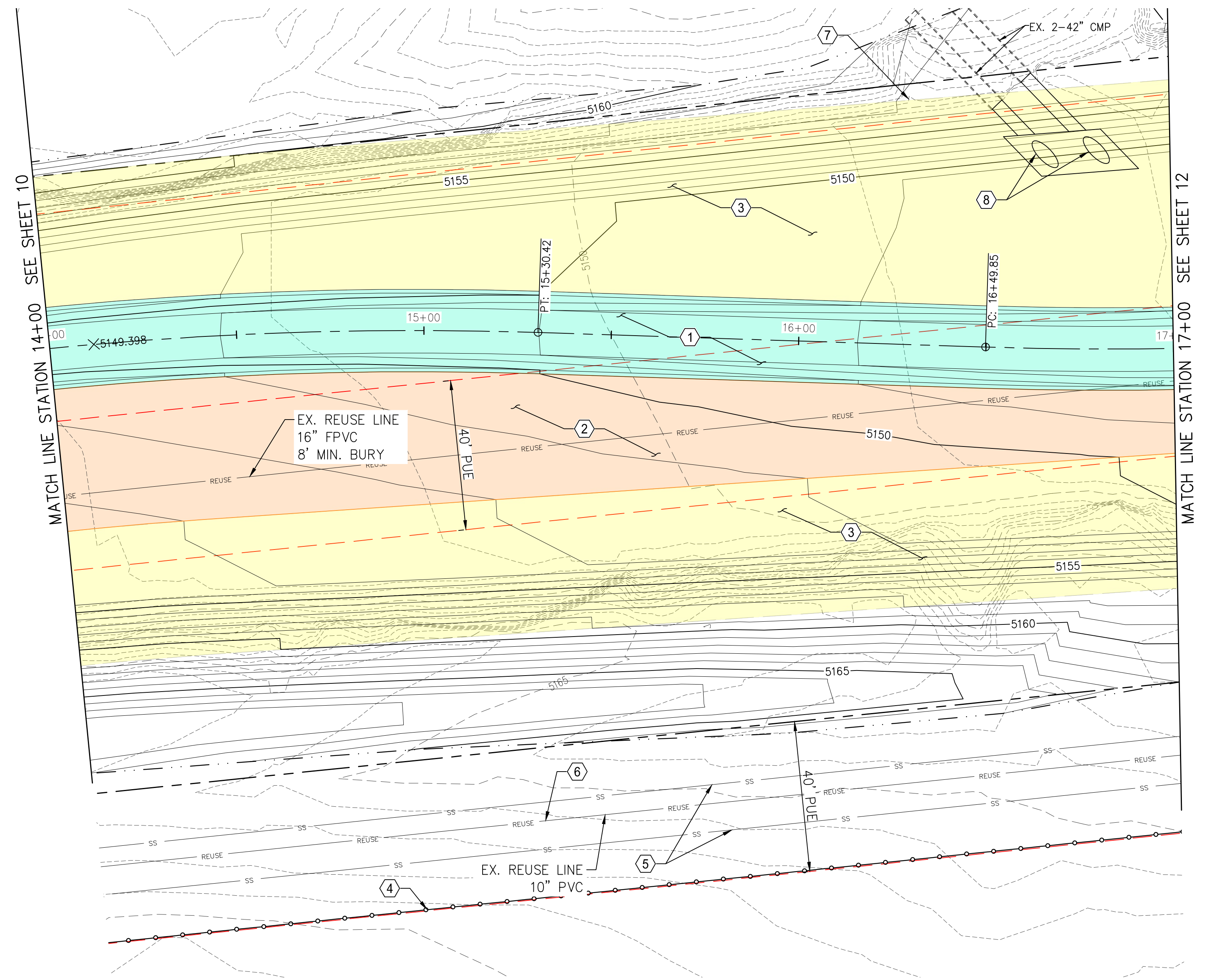
MARK	DESCRIPTION	DATE

PROJECT NO: MO_P0029-01
DESIGNED BY: AES
DRAWN BY: KLF
CHECKED BY: JN
DATE: 1/7/2022

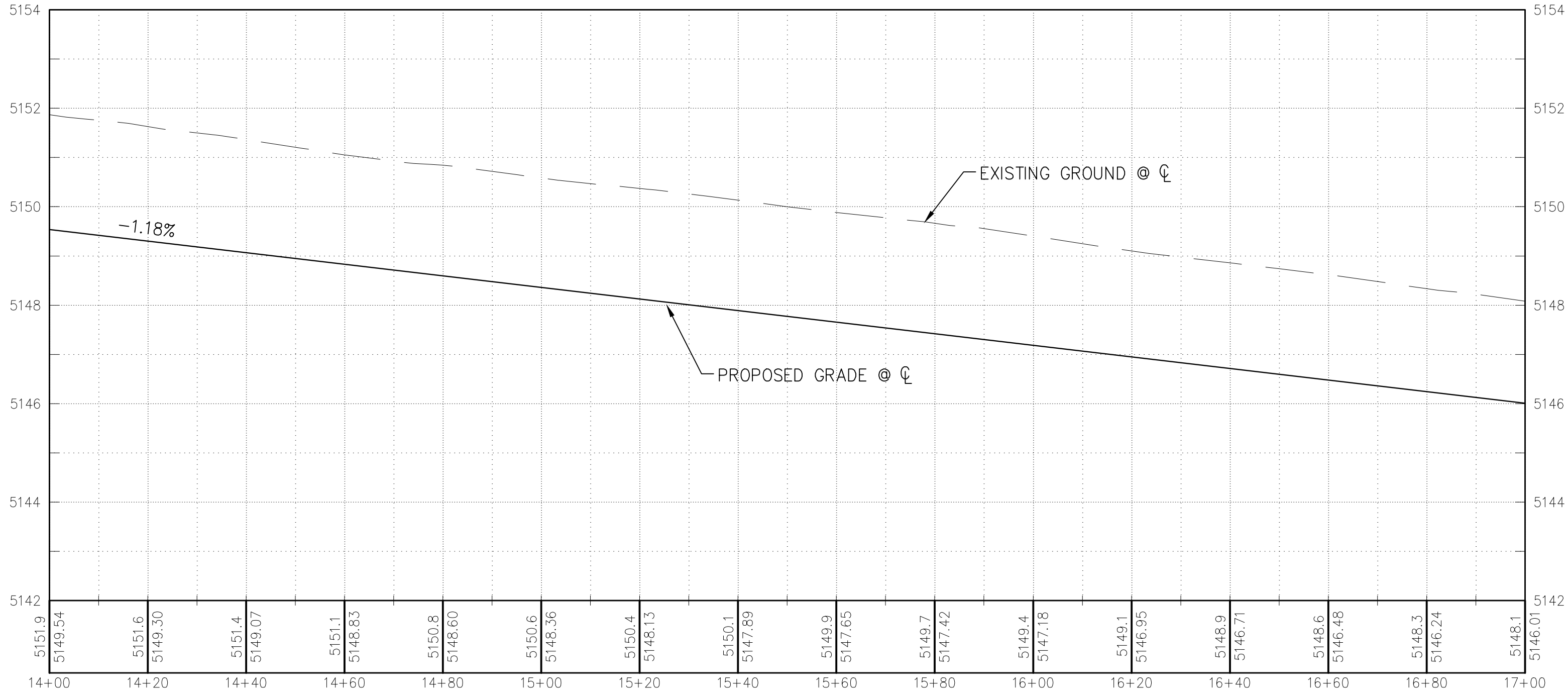
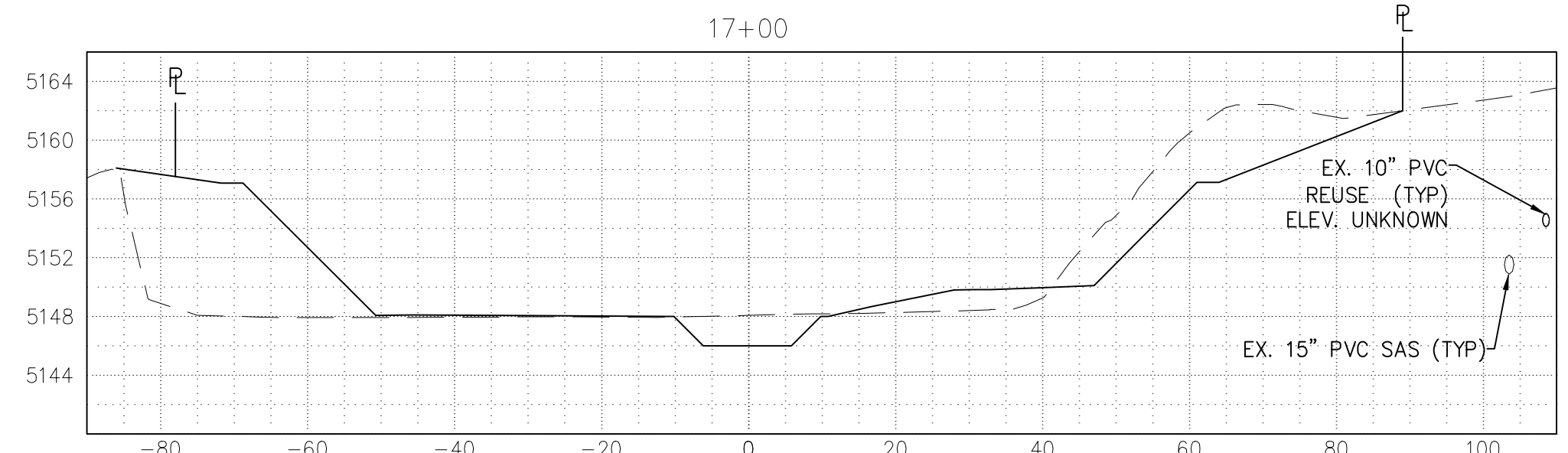
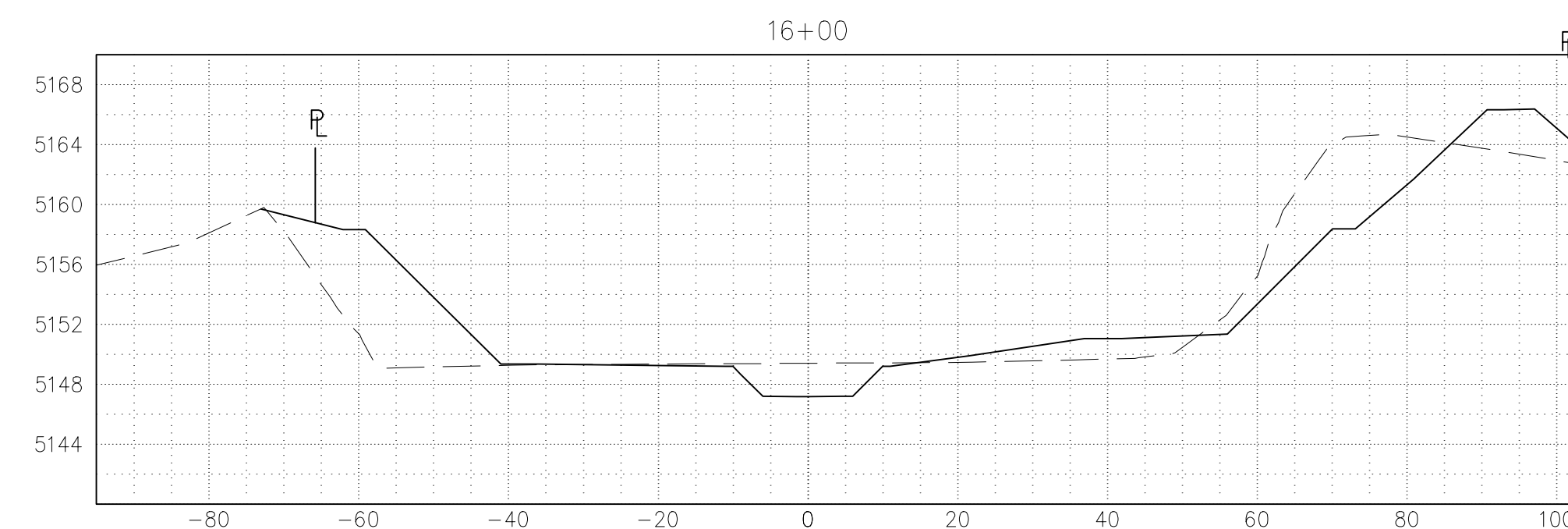
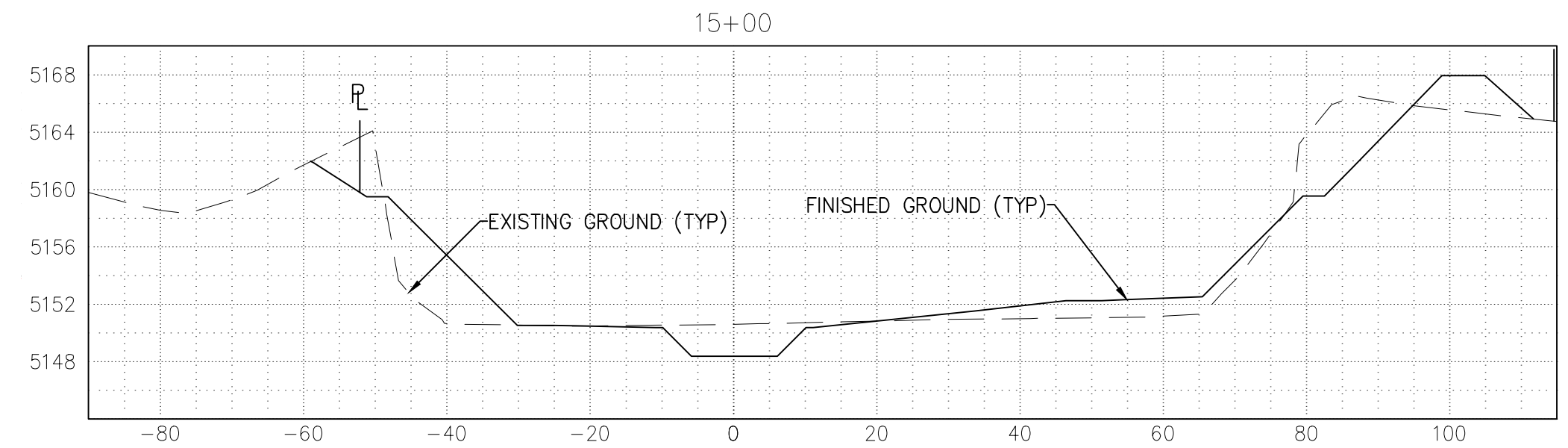
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SHEET 10 OF 24

Friday, January 7, 2022 10:51:11 AM - KFORNER
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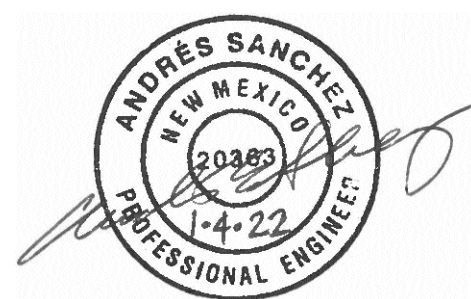
- KEYED NOTES:**
1. CONSTRUCT CONCRETE LOW FLOW CHANNEL PER DETAILS SHOWN ON SHEET 19.
 2. CONSTRUCT TYPE L RIPRAP, 20" THICK, PER DETAIL SHOWN ON SHEET 17.
 3. INSTALL ARMORMAX PER DETAILS SHOWN ON SHEET 20. TERMINATION OF ARMORMAX ADJACENT TO CONCRETE, GROUTED BOULDERS, OR RIPRAP SHALL FOLLOW DETAILS ON SHEET 20. NATIVE GRASS SEEDING WILL BE REQUIRED UNDER ALL ARMORMAX, SEE MANUFACTURERS VEGETATION ESTABLISHMENT SPECIFICATION ON SHEET 20.
 4. UNLESS OTHERWISE SHOWN, CONSTRUCT FENCE 0.5' INSIDE EASEMENT LINE ON SOUTH EDGE OF PROJECT. SEE FENCE DETAIL ON SHEET 17.
 5. ANY EXISTING 15" PVC SEWER LINE ENCOUNTERED SHALL BE REMOVED AND DISPOSED OF PER CITY OF RIO RANCHO MODIFIED APWA 801 SPECIFICATION.
 6. DUE TO LACK OF LOCATION & ELEVATION INFORMATION ON EXISTING 10" REUSE LINE, IF ENCOUNTERED DURING CONSTRUCTION, IT SHALL BE RELOCATED, RAISED, OR LOWERED AS NEEDED, ACCORDING TO CORR STANDARDS, TO MAINTAIN A MIN. 36" COVER. ANY WORK PERFORMED ON THE EXISTING 10" REUSE LINE WILL BE REIMBURSED UNDER BID ITEM: 10" REUSE LINE RELOCATION.
 7. CONTRACTOR TO ADJUST TOP OF ARMORMAX PLACEMENT TO ALLOW EXISTING OFFSITE DRAINAGE TO FLOW OVER TOP OF NEW ARMORMAX. THE GOAL IS TO PREVENT PONDING BEHIND ARMORMAX.
 8. EXTEND EXISTING 2-42" CMP AS NEEDED AND CONSTRUCT DOUBLE METAL PIPE CONCRETE BLANKET WITH SAFETY GRATE PER NMDOT STD DWG 511-14-1/4 THRU 4/4. SEE STRUCTURE PLACEMENT SECTION ON DETAIL SHEET 17.



SSCAFECA

Southern Sandoval County
Arroyo Flood Control Authority

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LOWER MONTOYAS ARROYO BANK
STABILIZATION PROJECT

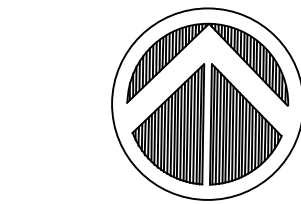
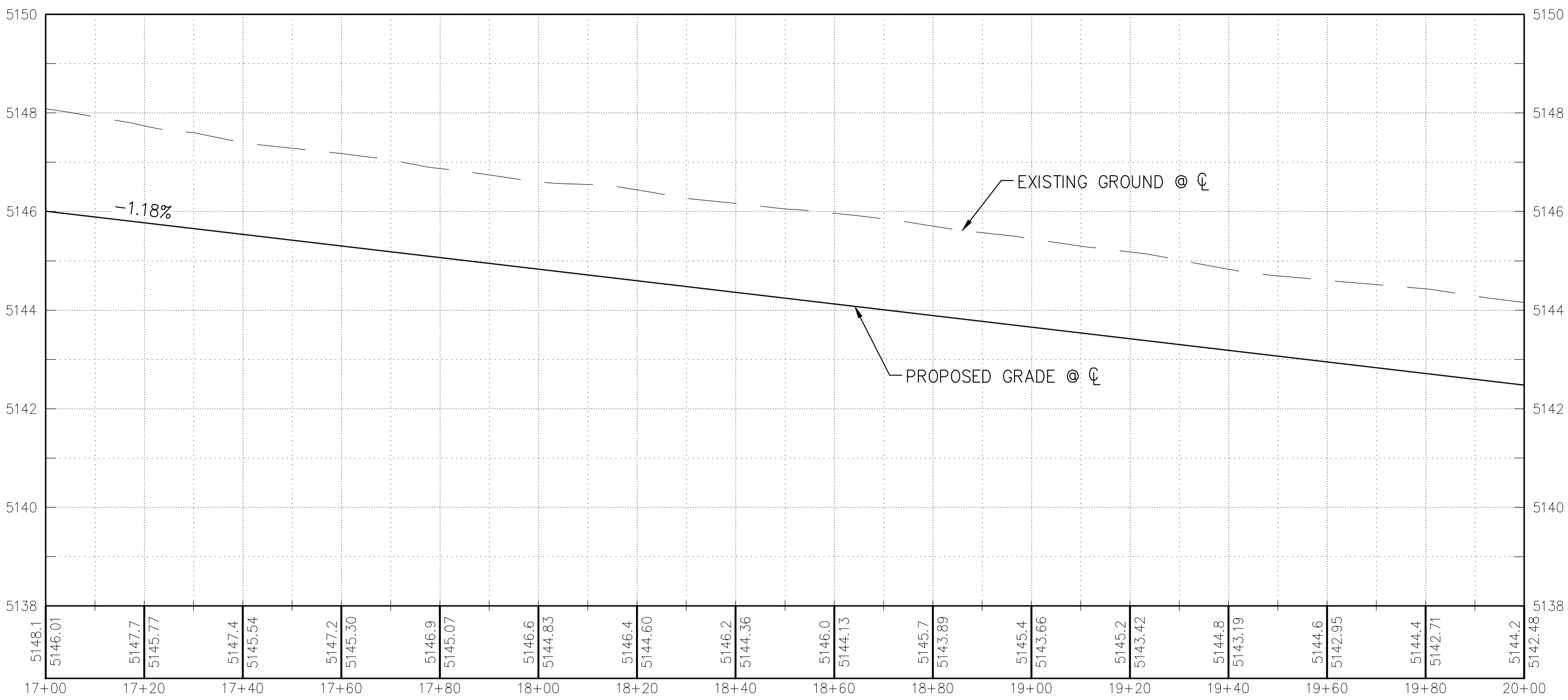
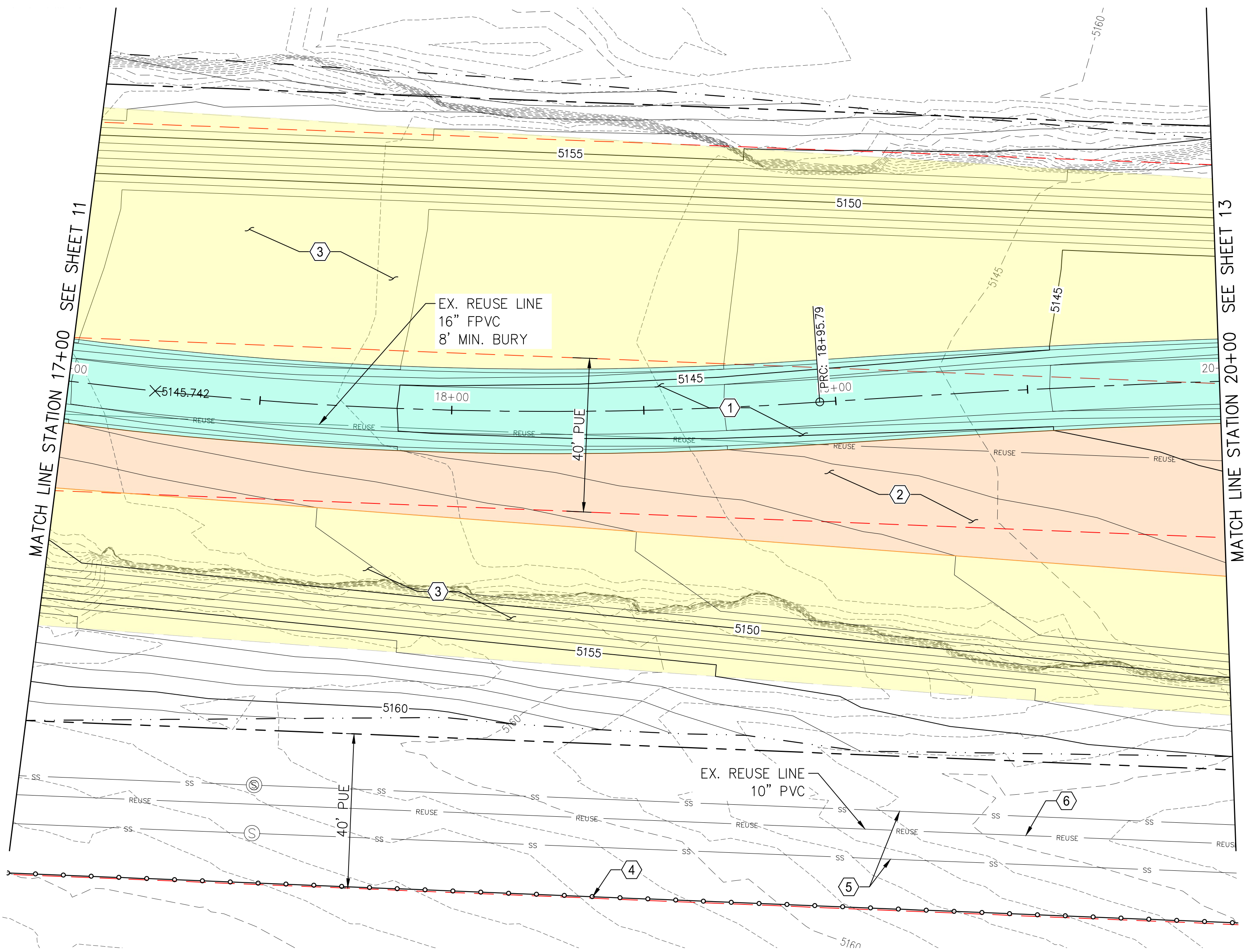
PLAN & PROFILE
STA. 14+00 TO 17+00

THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45
DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

REVISIONS & CHANGE NOTICES		
MARK	DESCRIPTION	DATE

PROJECT NO: MO_P0029-01
DESIGNED BY: AES
DRAWN BY: KLF
CHECKED BY: JN
DATE: 1/7/2022

Friday, January 7, 2022 10:51:11 AM -PFOURNER
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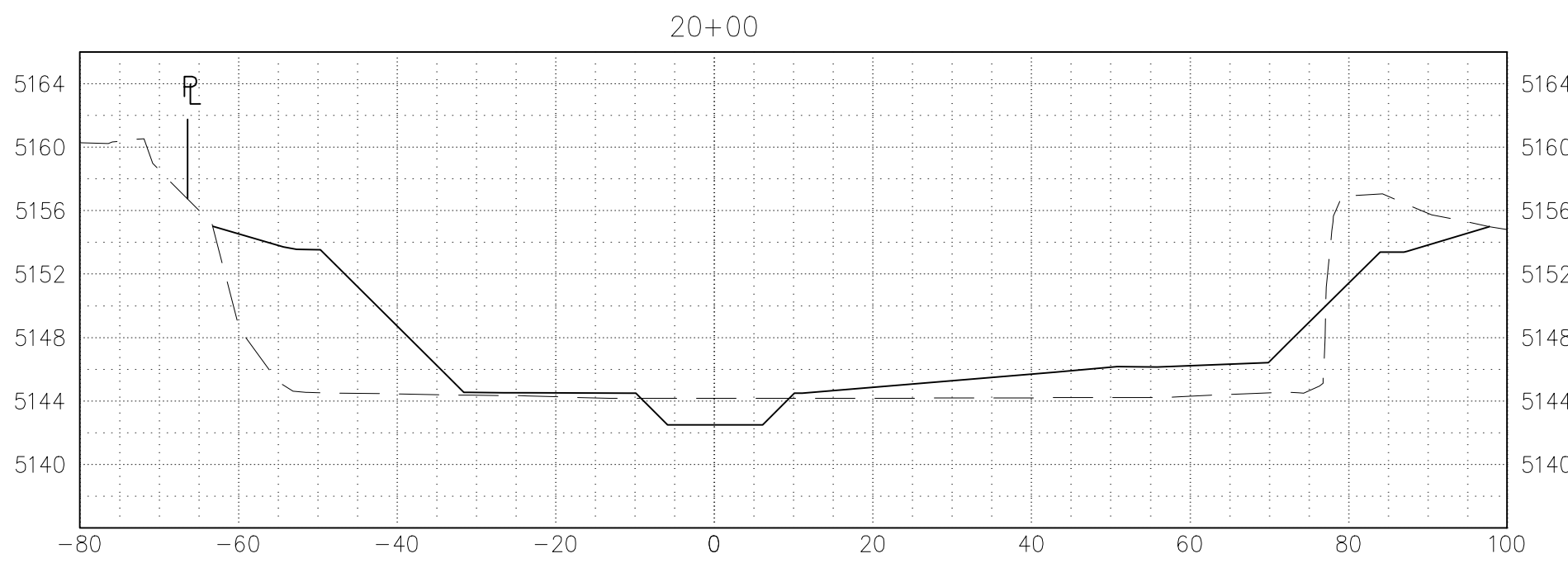
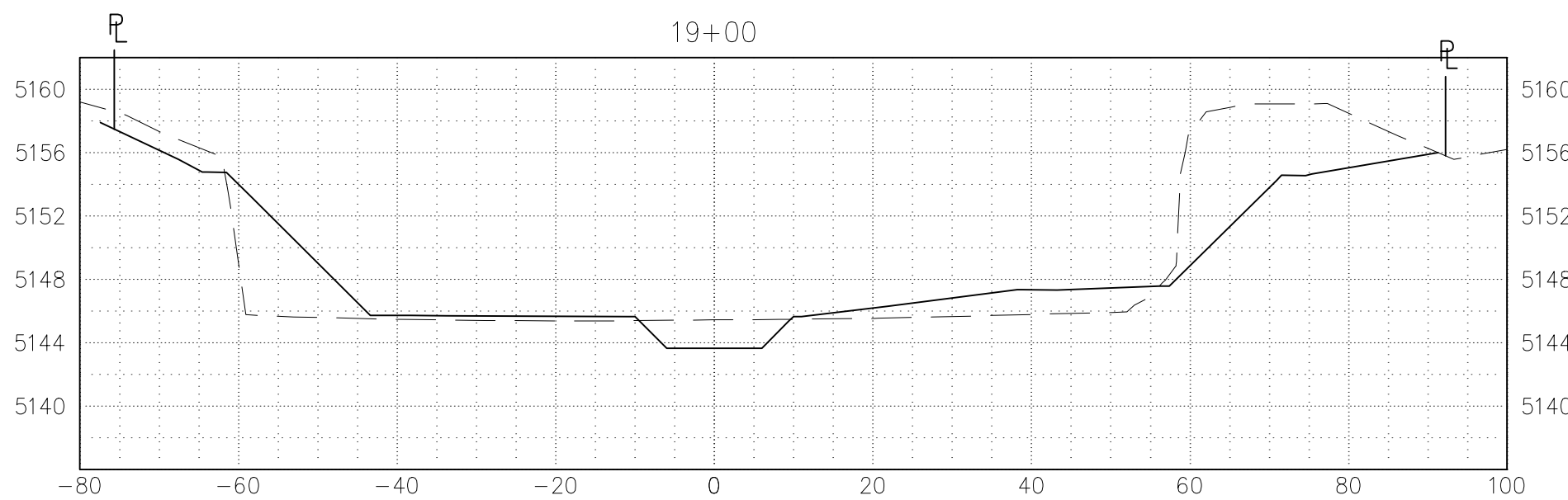
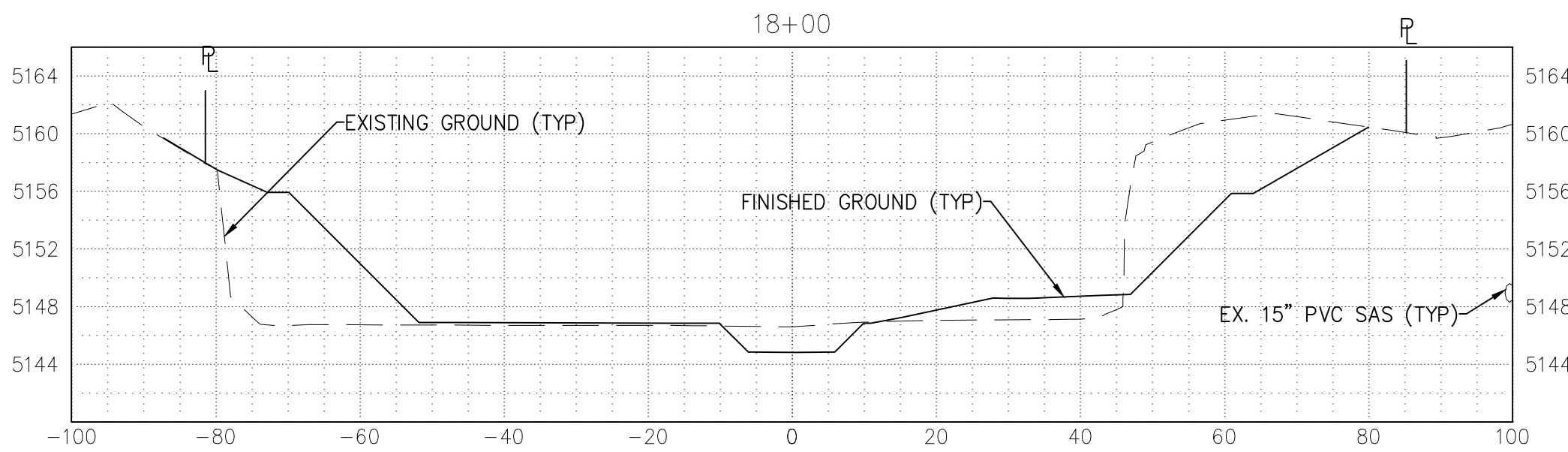
0 20 40 FEET

LEGEND:

- PROPOSED CONCRETE
- PROPOSED RIPRAP
- MAINTENANCE ACCESS
- PROPOSED ARMORMAX
- PROPERTY LINE
- EASEMENT LINE
- SANITARY SEWER LINE
- LIMITS OF GRADING

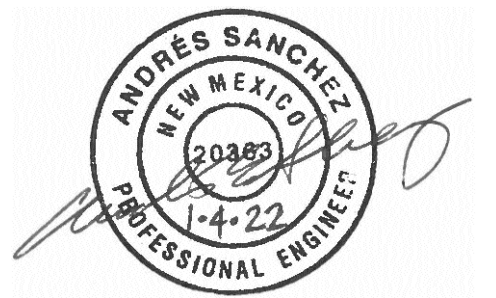
KEYED NOTES:

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6. DUE TO LACK OF LOCATION & ELEVATION INFORMATION ON EXISTING 10" REUSE LINE, IF ENCOUNTERED DURING CONSTRUCTION, IT SHALL BE RELOCATED, RAISED, OR LOWERED AS NEEDED, ACCORDING TO CORR STANDARDS, TO MAINTAIN A MIN. 36" COVER. ANY WORK PERFORMED ON THE EXISTING 10" REUSE LINE WILL BE REIMBURSED UNDER BID ITEM: 10" REUSE LINE RELOCATION.



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**LOWER MONTOYAS ARROYO BANK
STABILIZATION PROJECT**

**PLAN & PROFILE
STA. 17+00 TO 20+00**

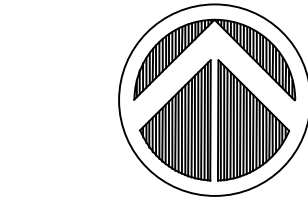
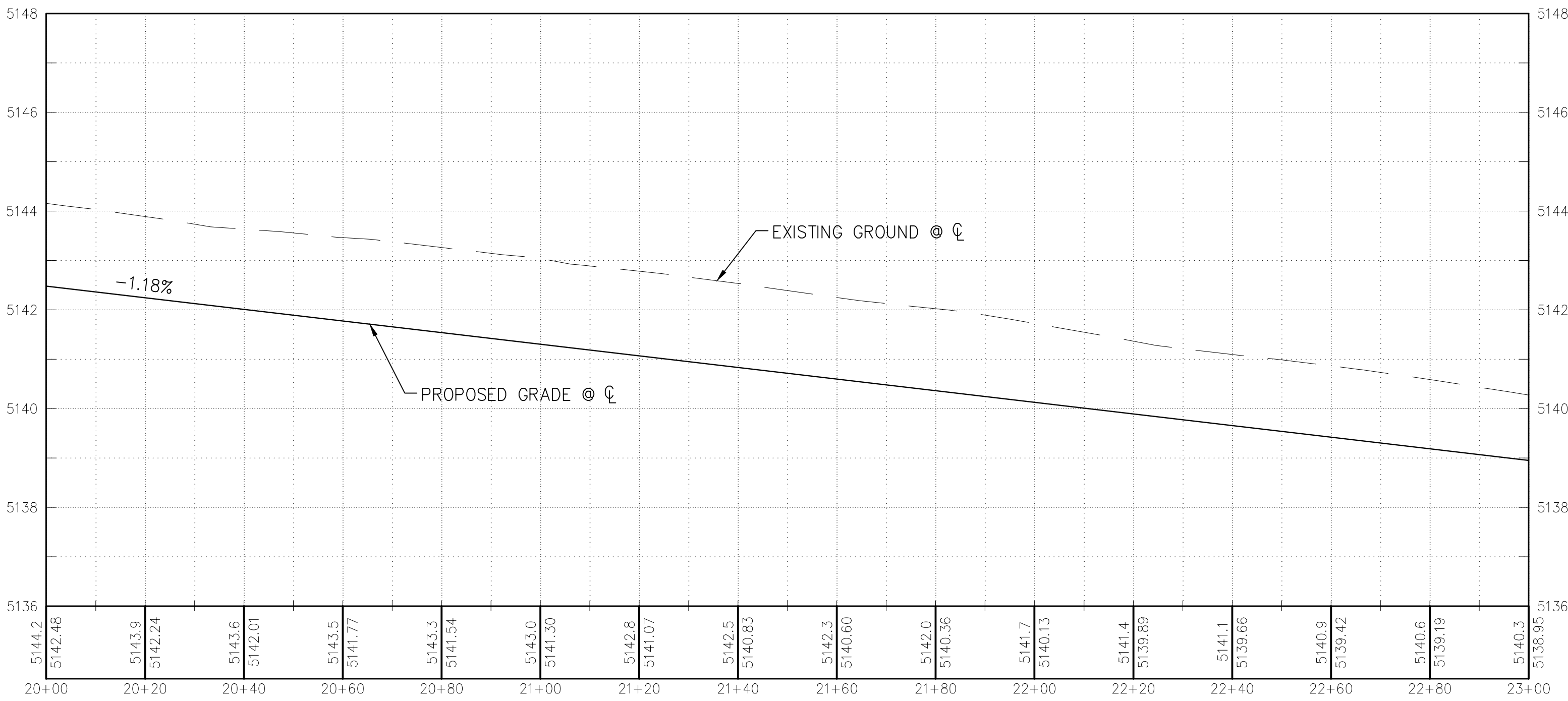
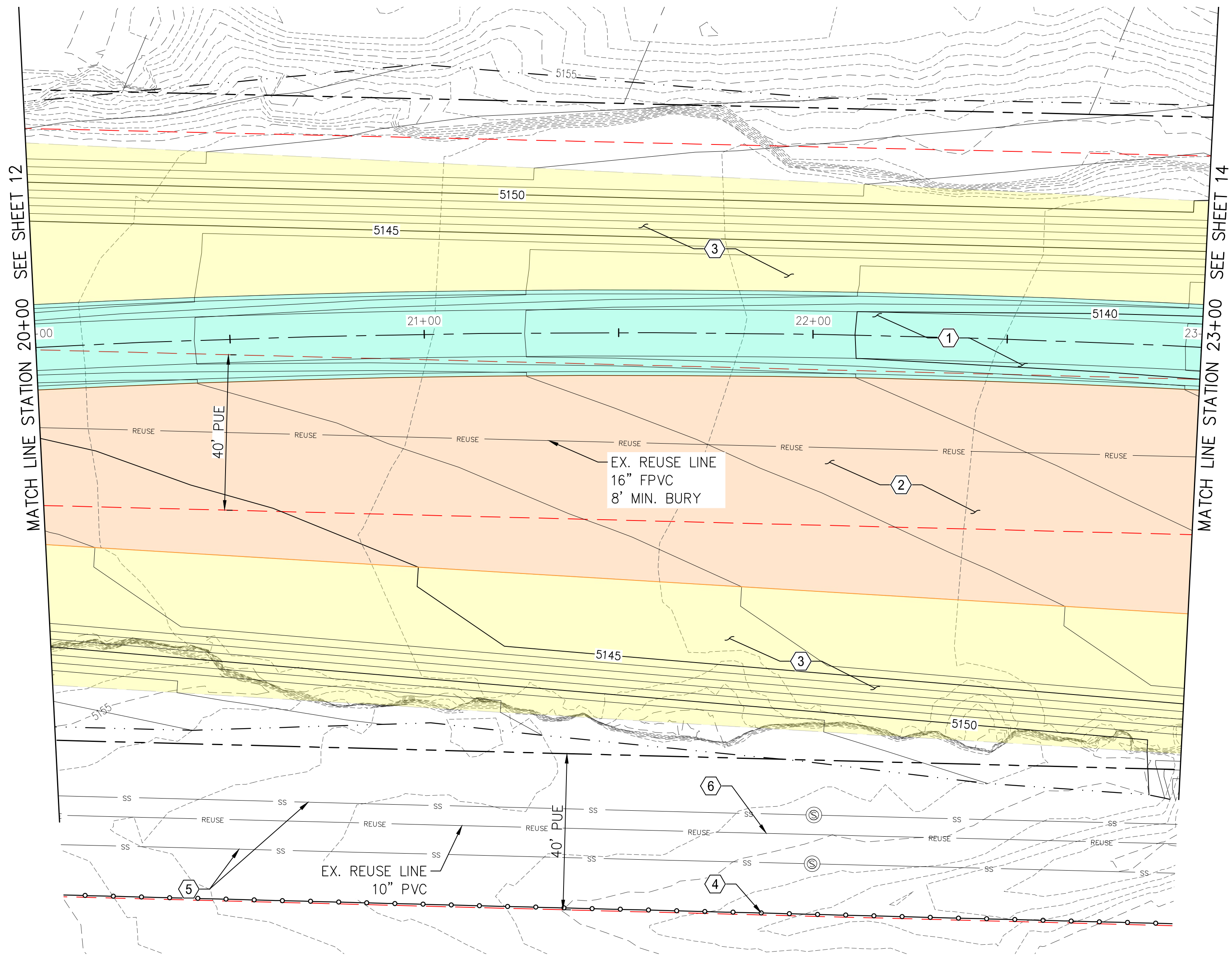
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45
DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

**REVISIONS &
CHANGE NOTICES**

MARK	DESCRIPTION	DATE

PROJECT NO: MO_P0029-01
DESIGNED BY: AES
DRAWN BY: KLF
CHECKED BY: JN
DATE: 1/7/2022

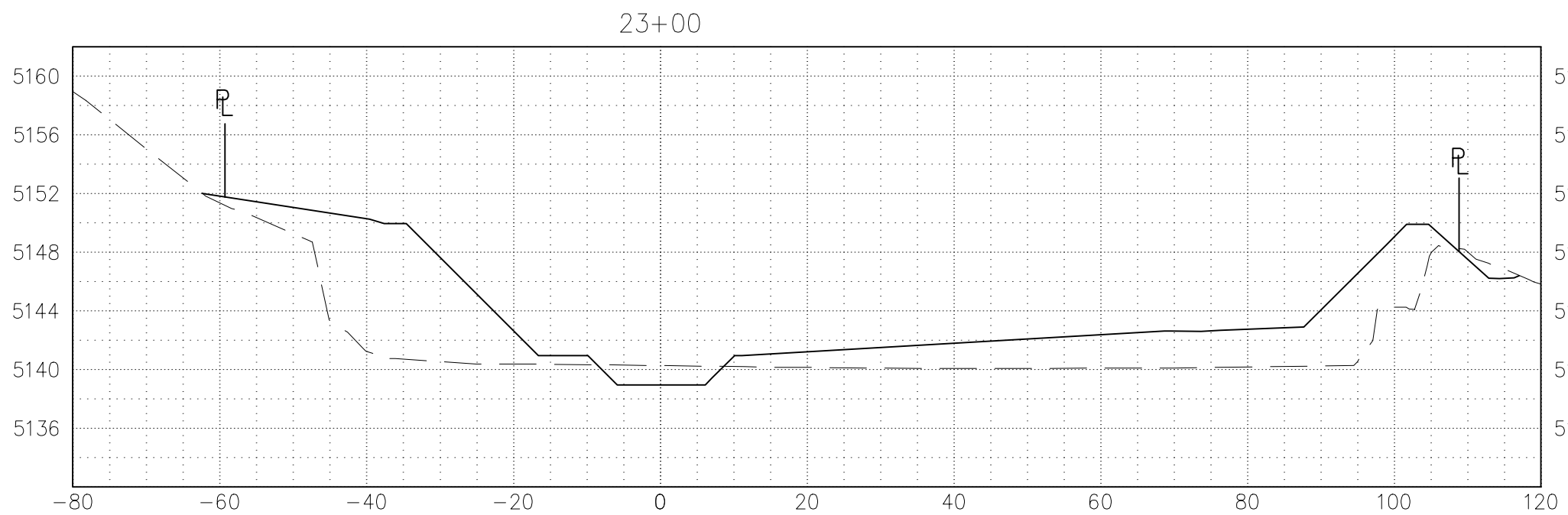
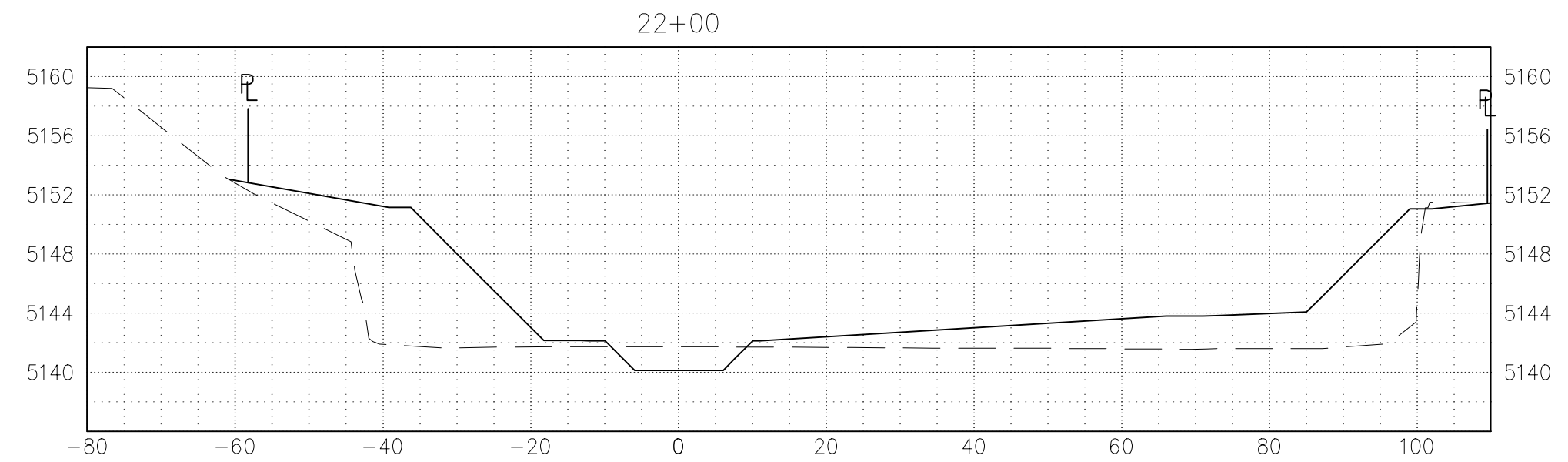
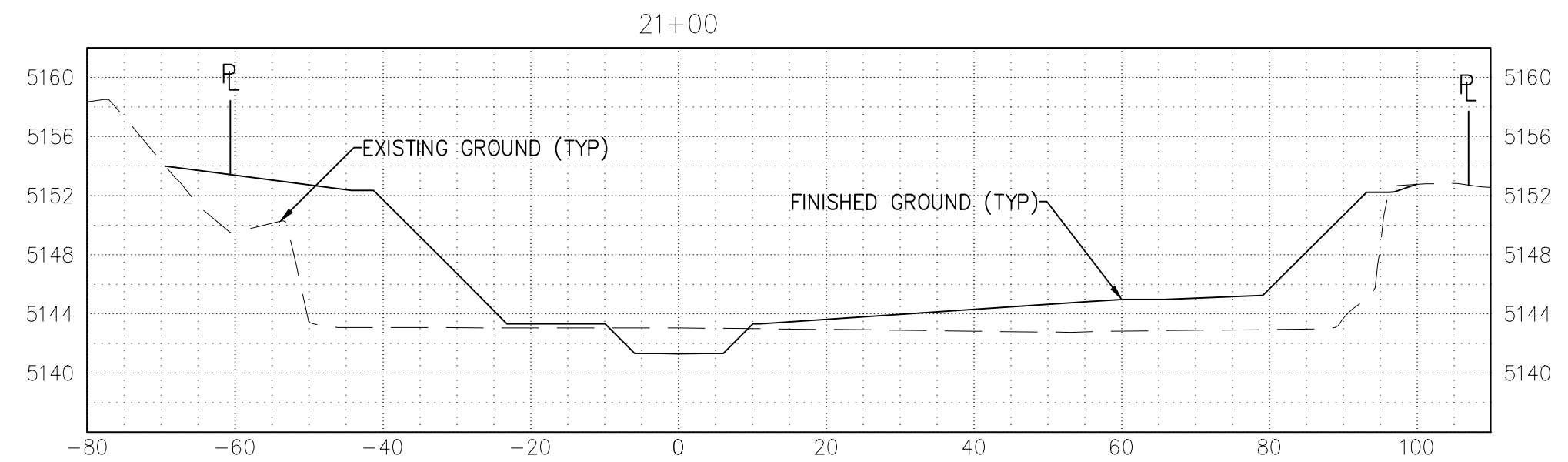
Friday, January 7, 2022 10:51:11 AM - JED:JUNIER
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- LEGEND:
- PROPOSED CONCRETE
 - PROPOSED RIPRAP
 - MAINTENANCE ACCESS
 - PROPOSED ARMORMAX
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 - EASEMENT LINE
 - SANITARY SEWER LINE
 - LIMITS OF GRADING

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**LOWER MONTOYAS ARROYO BANK
STABILIZATION PROJECT**

**PLAN & PROFILE
STA. 20+00 TO 23+00**

THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45
DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

**REVISIONS &
CHANGE NOTICES**

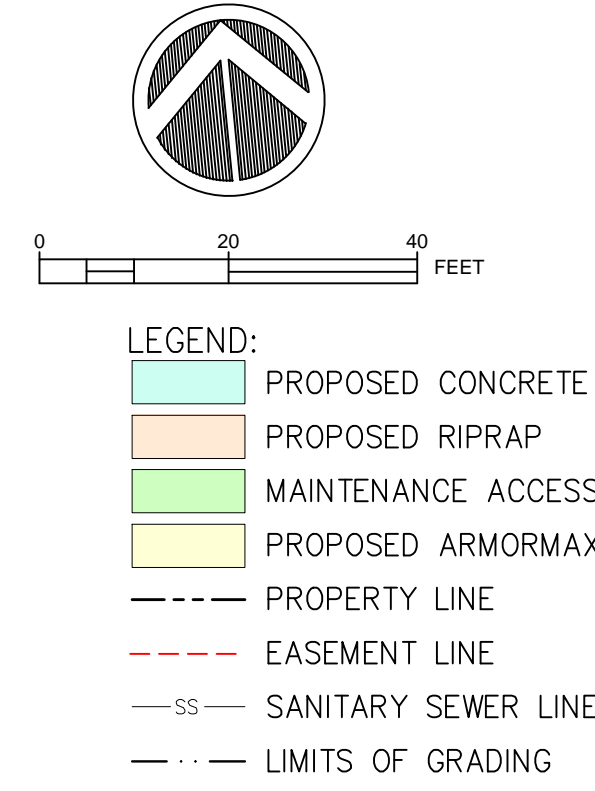
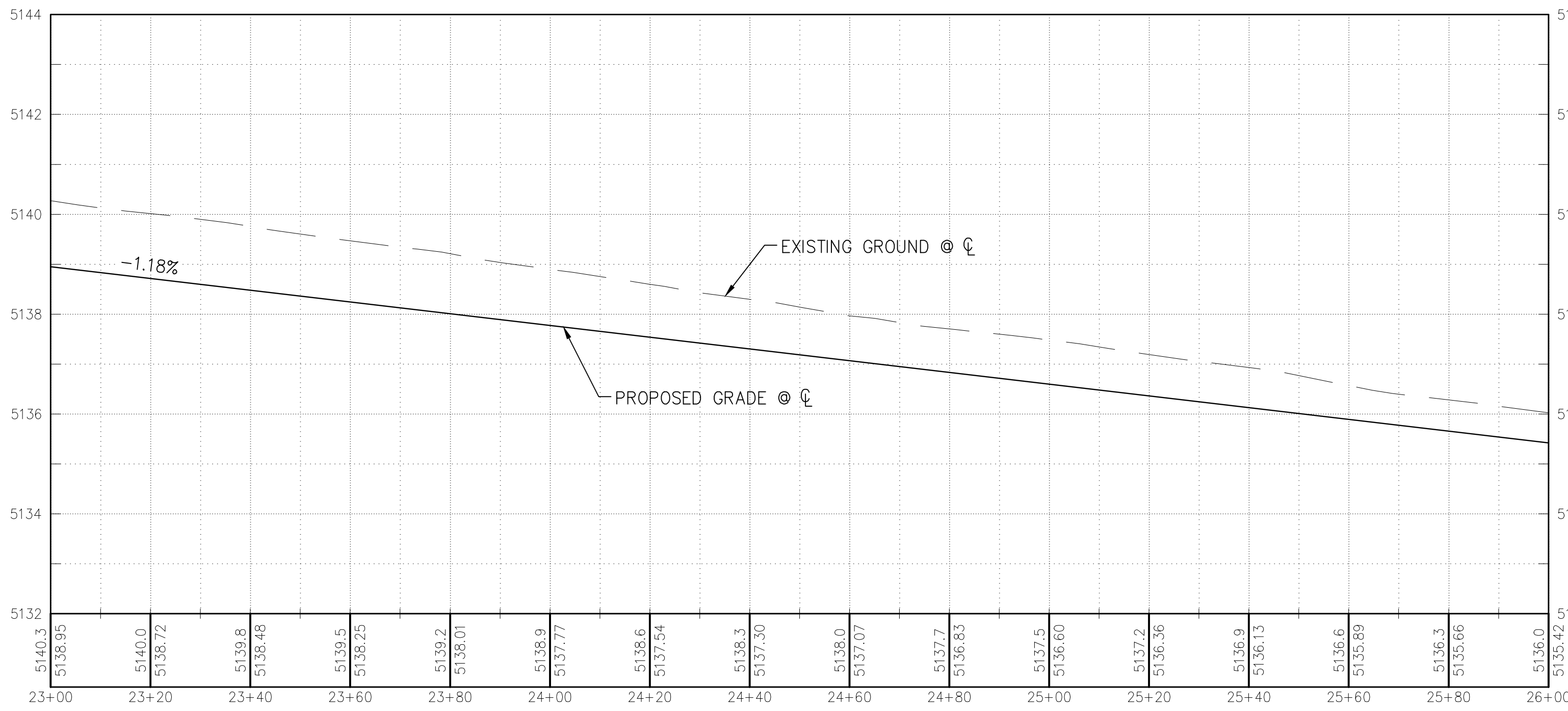
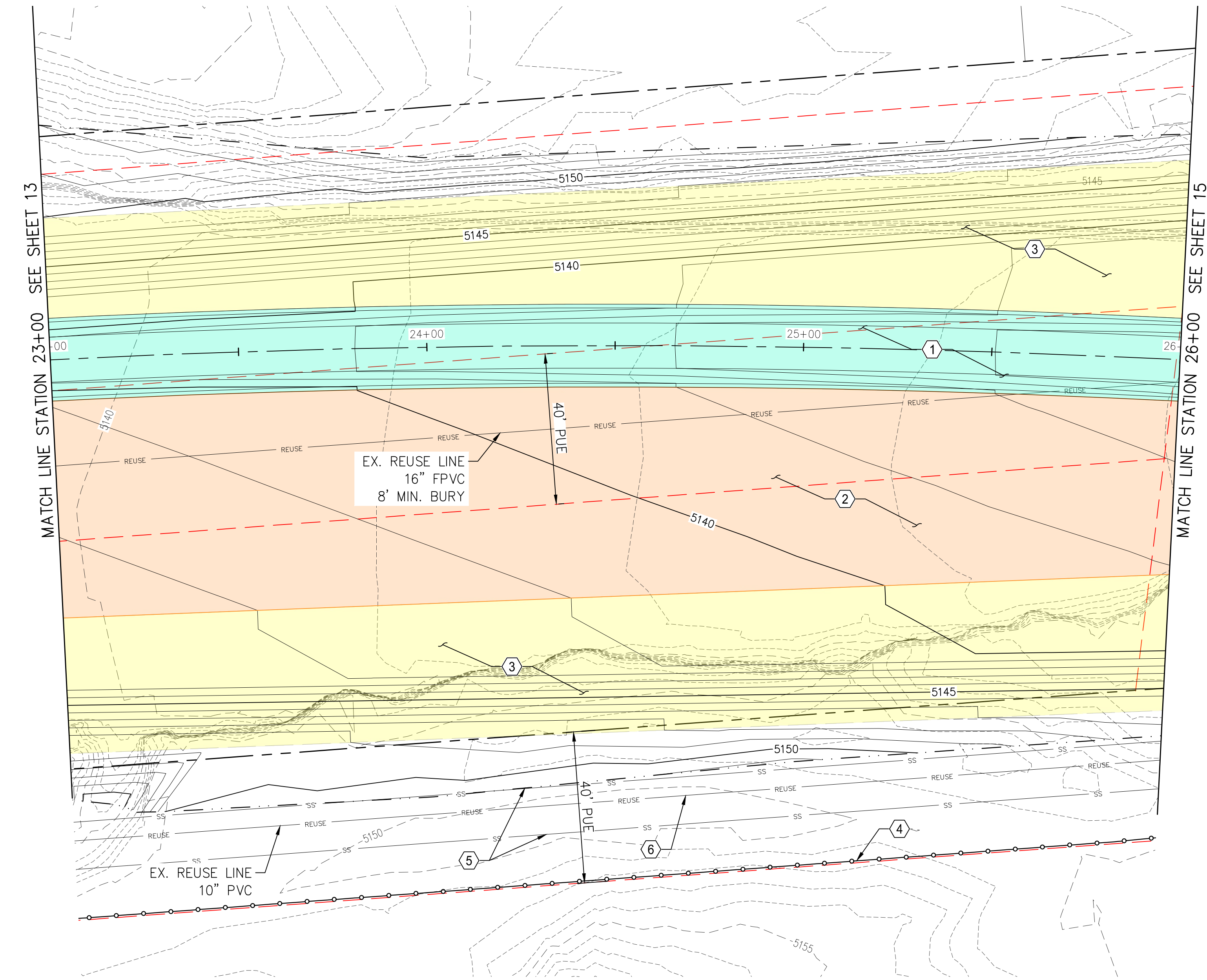
MARK	DESCRIPTION	DATE

PROJECT NO: MO_P0029-01
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DRAWN BY: KLF
CHECKED BY: JN
DATE: 1/7/2022

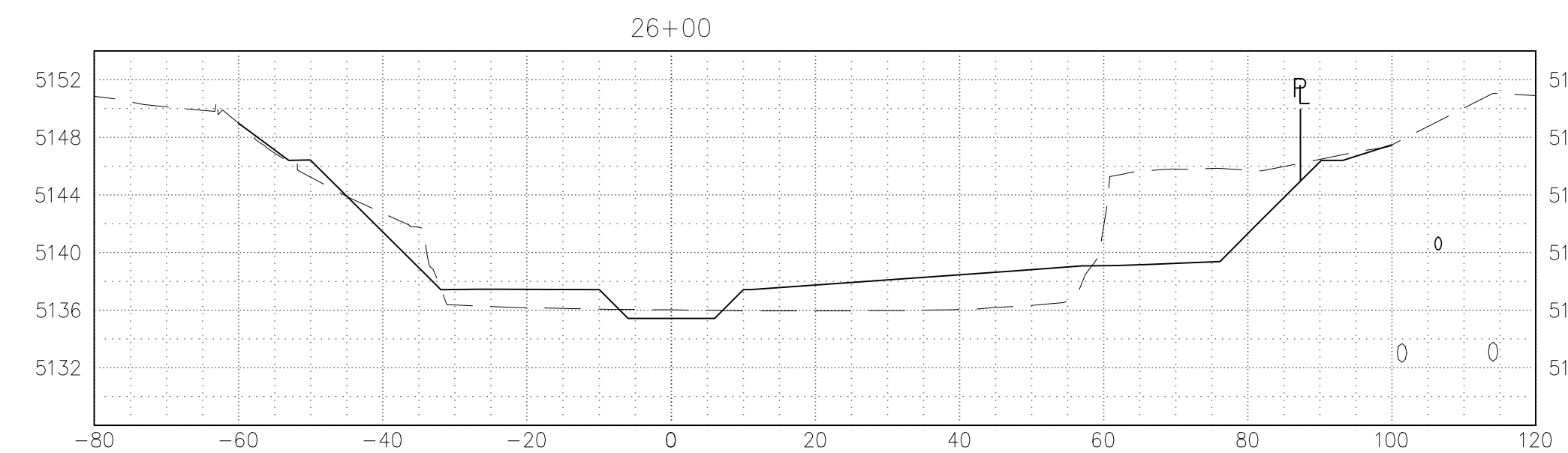
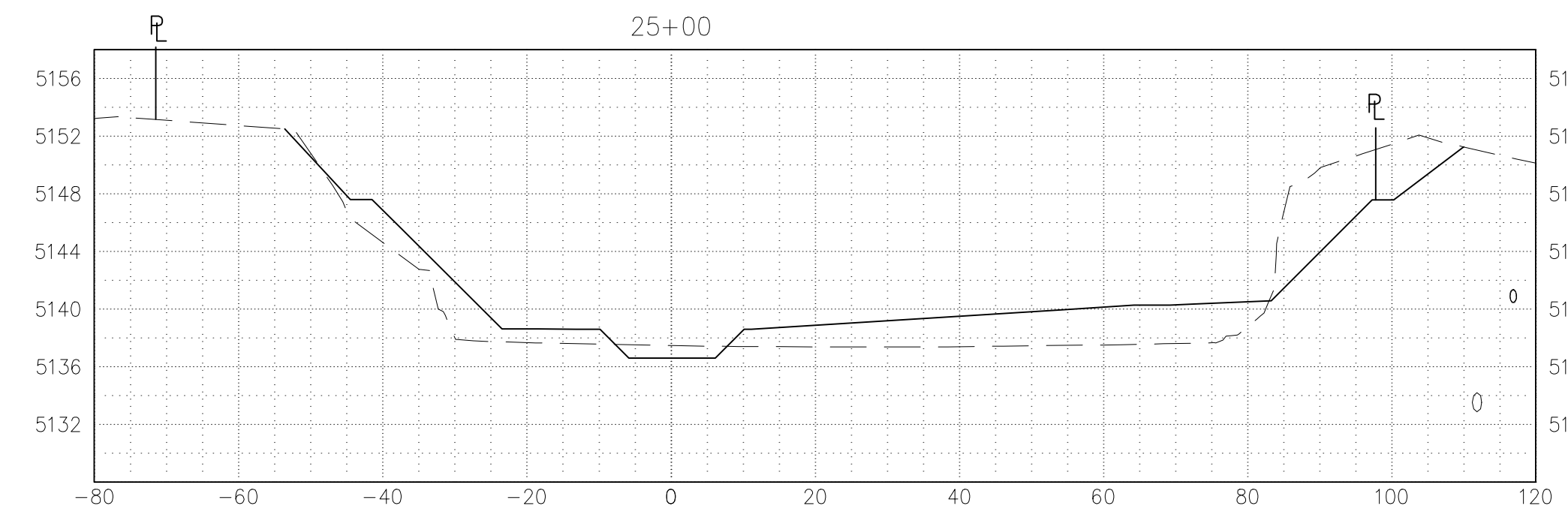
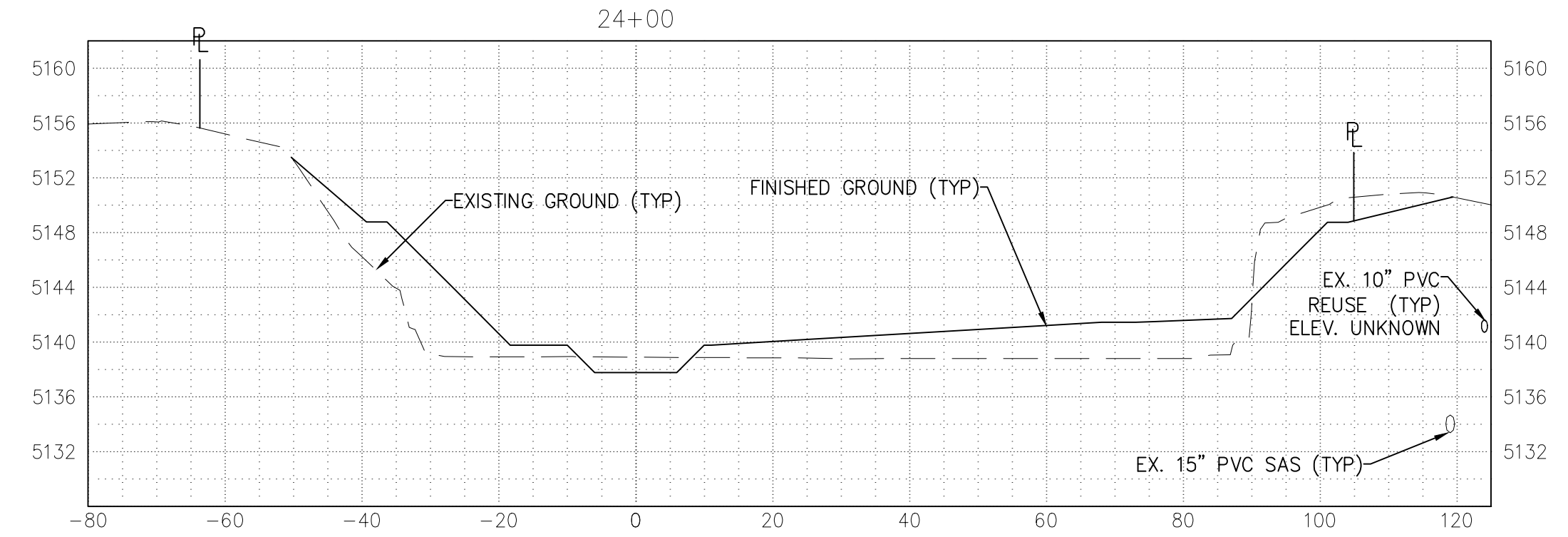
13

SHEET 13 OF 24

Friday, January 7, 2022 10:51:11 AM - KFORNER
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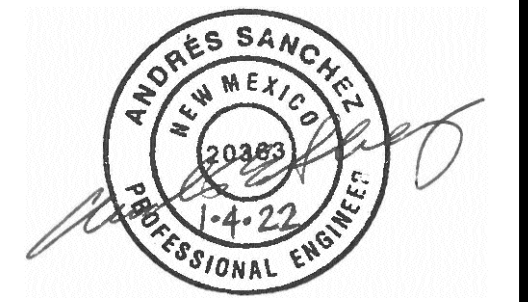


- KEYED NOTES:**
1. CONSTRUCT CONCRETE LOW FLOW CHANNEL PER DETAILS SHOWN ON SHEET 19.
 2. CONSTRUCT TYPE L RIPRAP, 20" THICK, PER DETAIL SHOWN ON SHEET 17.
 3. INSTALL ARMORMAX PER DETAILS SHOWN ON SHEET 20. TERMINATION OF ARMORMAX ADJACENT TO CONCRETE, GROUTED BOULDERS, OR RIPRAP SHALL FOLLOW DETAILS ON SHEET 20. NATIVE GRASS SEEDING WILL BE REQUIRED UNDER ALL ARMORMAX, SEE MANUFACTURERS VEGETATION ESTABLISHMENT SPECIFICATION ON SHEET 20.
 4. UNLESS OTHERWISE SHOWN, CONSTRUCT FENCE 0.5' INSIDE EASEMENT LINE ON SOUTH EDGE OF PROJECT. SEE FENCE DETAIL ON SHEET 17.
 5. ANY EXISTING 15" PVC SEWER LINE ENCOUNTERED SHALL BE REMOVED AND DISPOSED OF PER CITY OF RIO RANCHO MODIFIED APWA 801 SPECIFICATION.
 6. DUE TO LACK OF LOCATION & ELEVATION INFORMATION ON EXISTING 10" REUSE LINE, IF ENCOUNTERED DURING CONSTRUCTION, IT SHALL BE RELOCATED, RAISED, OR LOWERED AS NEEDED, ACCORDING TO CORR STANDARDS, TO MAINTAIN A MIN. 36" COVER. ANY WORK PERFORMED ON THE EXISTING 10" REUSE LINE WILL BE REIMBURSED UNDER BID ITEM: 10" REUSE LINE RELOCATION.



**Southern Sandoval
County
Arroyo Flood Control
Authority**

1041 Commercial Dr. S.E.
Rio Rancho, New Mexico 87124
505-892-RAIN (7246)
505-892-7241 (Fax)
www.sscafca.com



**LOWER MONTOYAS ARROYO BANK
STABILIZATION PROJECT**

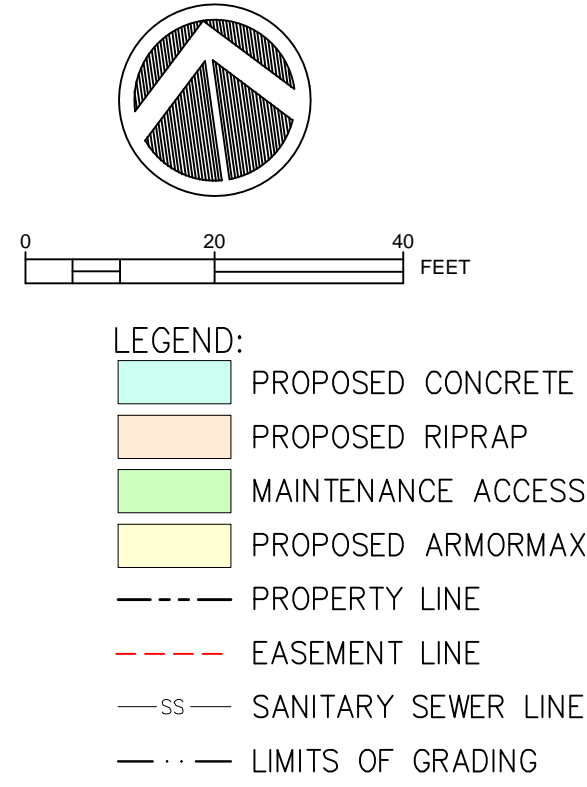
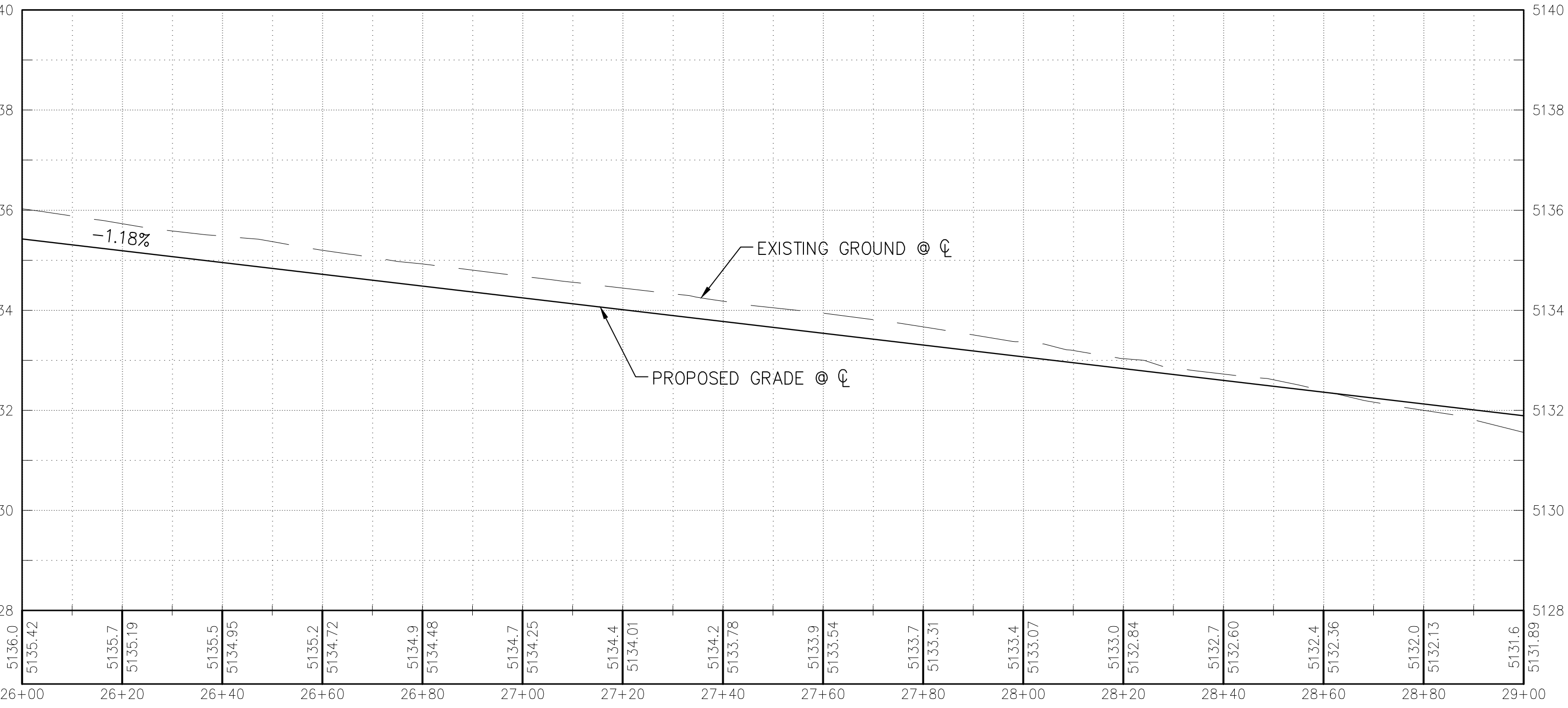
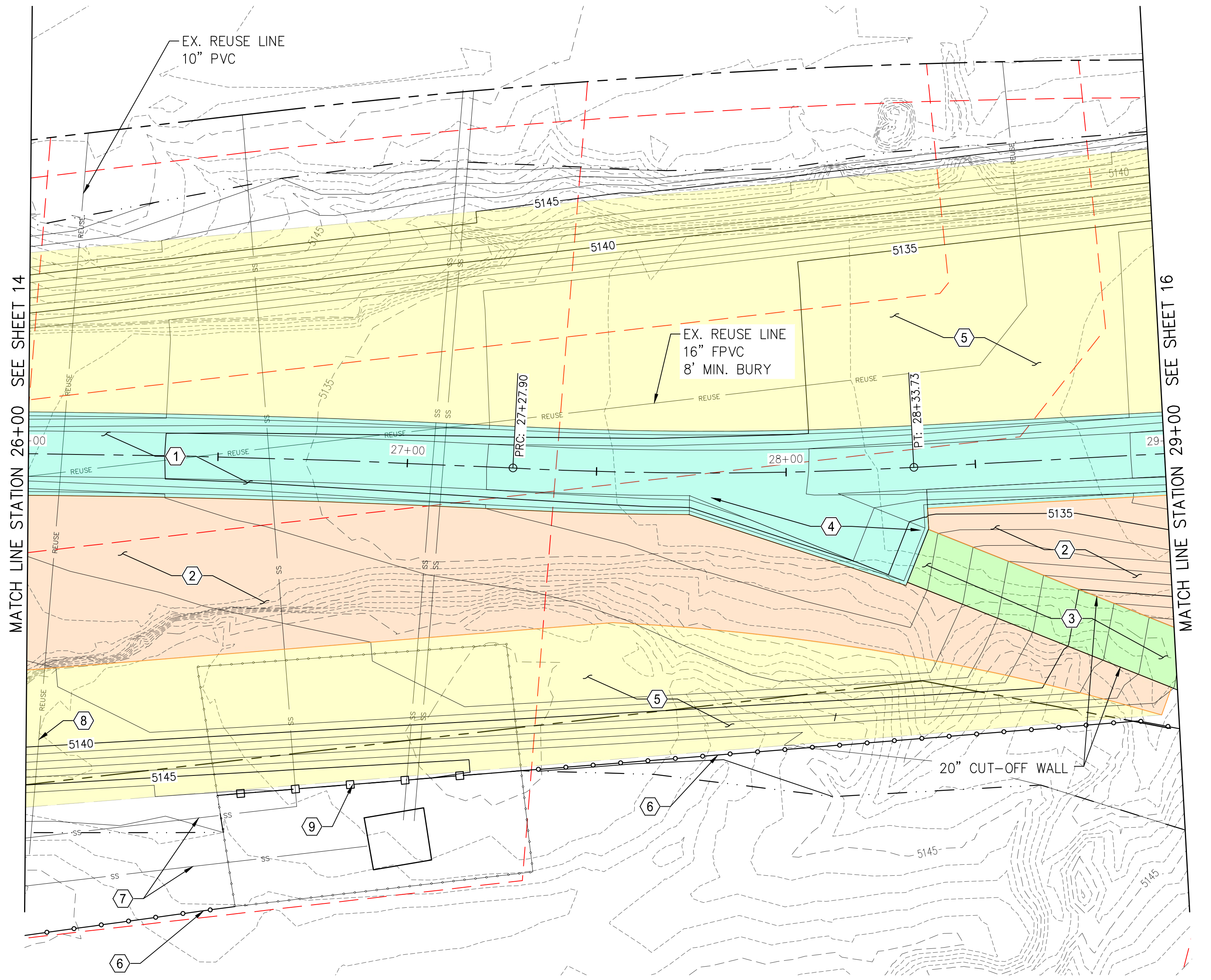
**PLAN & PROFILE
STA. 23+00 TO 26+00**

THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

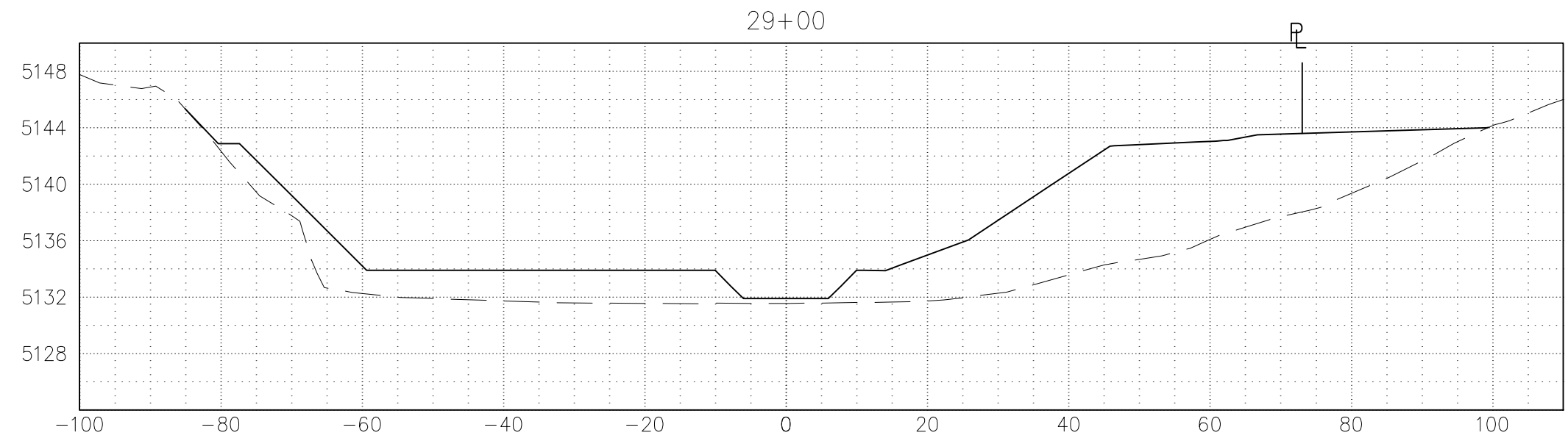
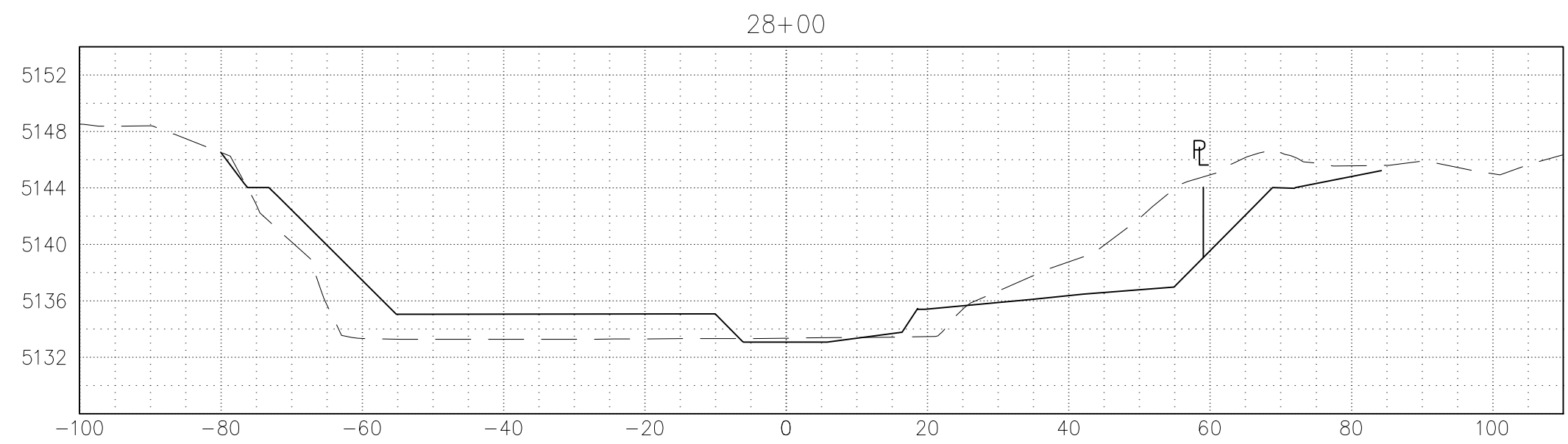
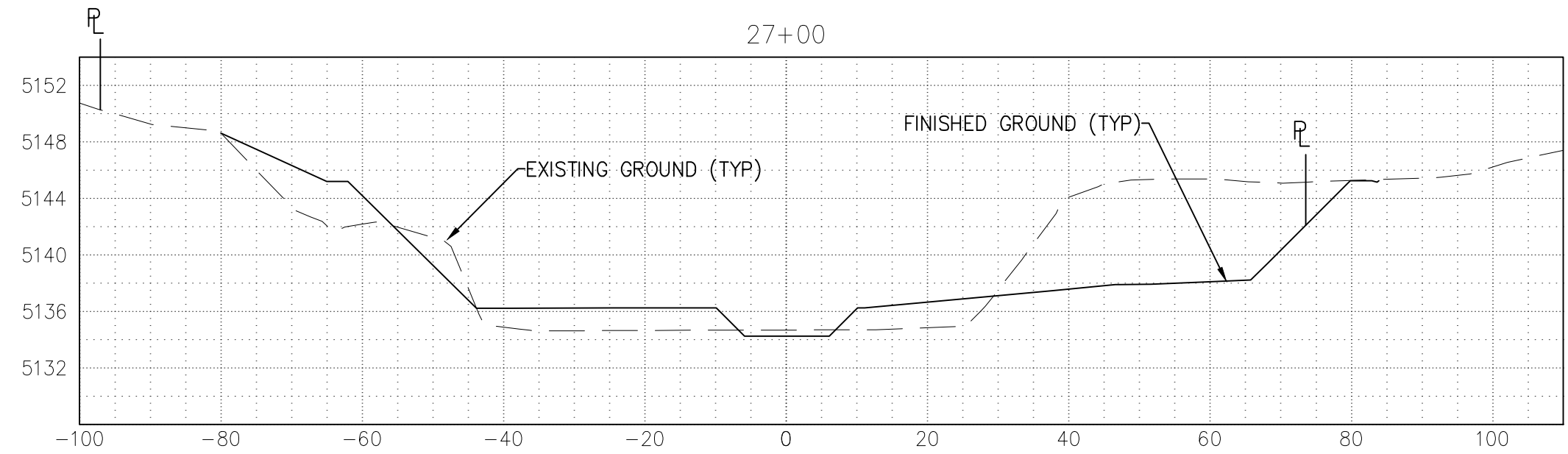
REVISIONS & CHANGE NOTICES		
MARK	DESCRIPTION	DATE


PROJECT NO: MO_P0029-01
DESIGNED BY: AES
DRAWN BY: KLF
CHECKED BY: JN
DATE: 1/7/2022

Friday, January 7, 2022 10:51:11 AM - FJOURNER
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- KEYED NOTES:**
1. CONSTRUCT CONCRETE LOW FLOW CHANNEL PER DETAILS SHOWN ON SHEET 19.
 2. CONSTRUCT TYPE L RIPRAP, 20" THICK, PER DETAIL SHOWN ON SHEET 17.
 3. CONSTRUCT MAINTENANCE ACCESS AND FLUSH CURB PER TYPICAL SECTION SHOWN ON SHEET 17.
 4. CONSTRUCT CONCRETE ACCESS RAMP PER DETAILS SHOWN ON SHEET 18.
 5. INSTALL ARMORMAX PER DETAILS SHOWN ON SHEET 20. TERMINATION OF ARMORMAX ADJACENT TO CONCRETE, GROUTED BOULDERS, OR RIPRAP SHALL FOLLOW DETAILS ON SHEET 20. NATIVE GRASS SEEDING WILL BE REQUIRED UNDER ALL ARMORMAX. SEE MANUFACTURERS VEGETATION ESTABLISHMENT SPECIFICATION ON SHEET 20.
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 9. INSTALL APPROX. 80 LF OF CHAIN LINK FENCE W/SECURITY WIRE, SAME AS EXISTING LIFT STATION FENCING.





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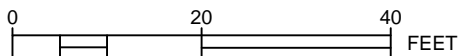
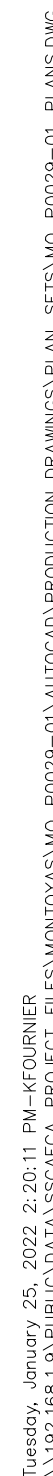
LOWER MONTOYAS ARROYO BANK
STABILIZATION PROJECT

PLAN & PROFILE
STA. 26+00 TO 29+00

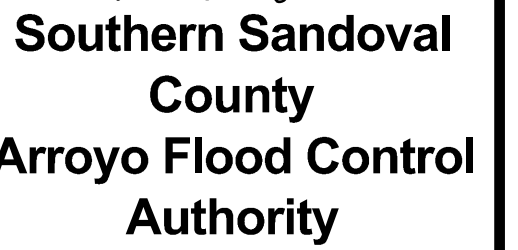
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45
DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

REVISIONS & CHANGE NOTICES		
MARK	DESCRIPTION	DATE

PROJECT NO: MO_P0029-01
DESIGNED BY: AES
DRAWN BY: KLF
CHECKED BY: JN
DATE: 1/7/2022



-
- DETAIL OF FENCING FASTENING & BRACING**
NTS
1. 3/4" DIAMETER CABLE.
2. 3/4" DIAMETER HOLES FOR CABLE THRU CENTER OF POST. PROVIDE ADEQUATE TENSION IN THE CABLE TO MINIMIZE SAG BETWEEN SPANS.
3. LINE POST 2 1/2" O.D.
4. GATE, END AND CORNER POST 2 3/4" O.D.
5. DIAGONAL BRACE AT EVERY ANGLE POINT AND IN END SPANS 2 1/2" O.D. WELDED IN PLACE.
6. 2000 PSI (4 SACK CONC.) AT EVERY 4TH POST, EVERY ANGLE POINT, BRACE POINT AND AT ENDS. CAPS ON ALL POSTS.
7. BOLT ASSE 527K-4 REFLECTIVE SIGN TO CABLE. TACK WELD NUT TO THREADS, EVERY OTHER SPAN.
- GENERAL NOTES:**
* THERE SHOULD BE ENOUGH TENSION IN THE CABLE TO MINIMIZE SAG BETWEEN SPANS.
- SECTION A-A**
(PIGTAIL)
(TYPICAL EVERY FOURTH POST)
NTS
- TYPICAL SECTION**
NTS
- KEYED NOTES:**
- GENERAL NOTES:**
- Southern Sandoval County
Arroyo Flood Control Authority
- STANDARD DRAWING
M104
CABLE FENCE
- 04/104.DWG April 30, 2020



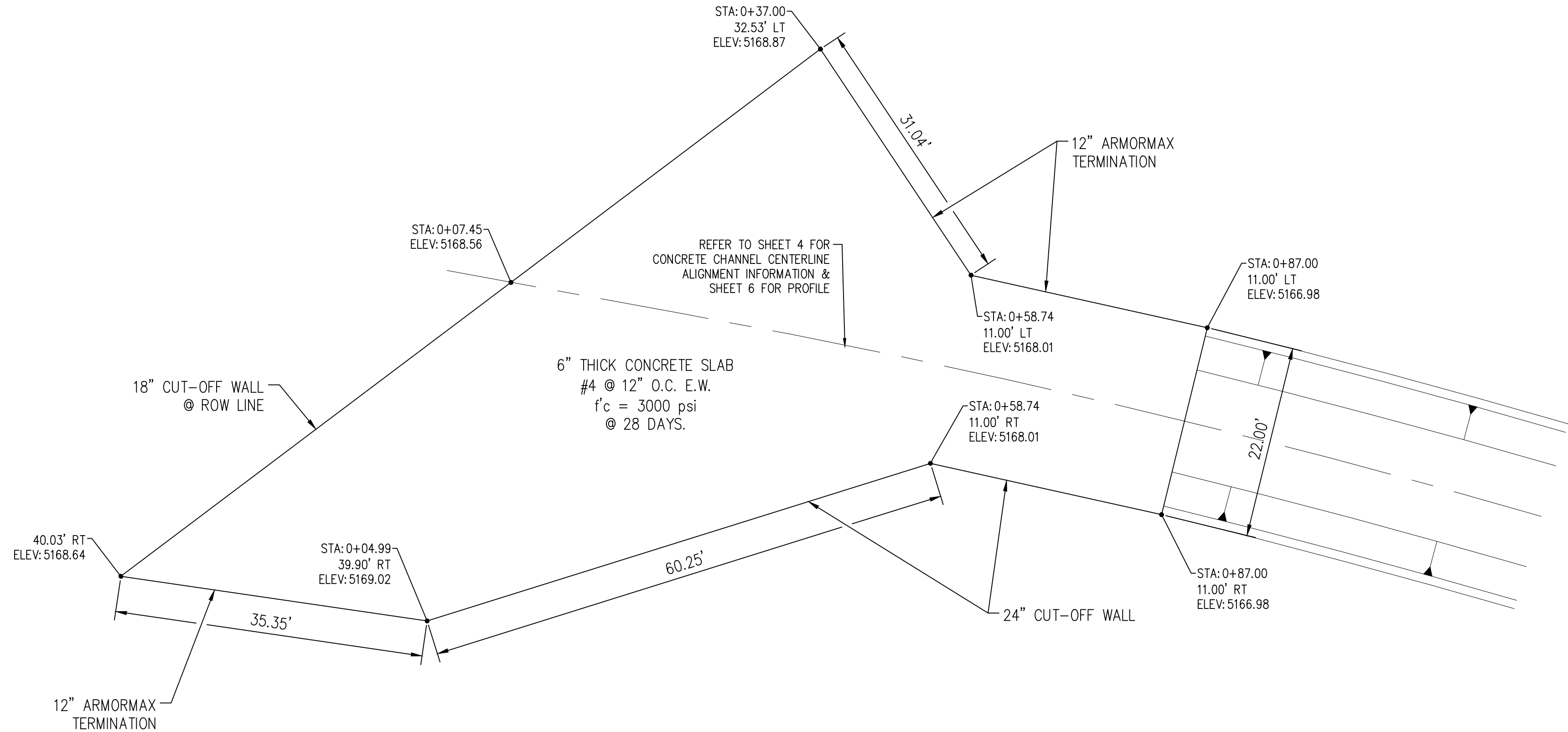
PLAN & PROFILE
STA. 29+00 TO 32+00

THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

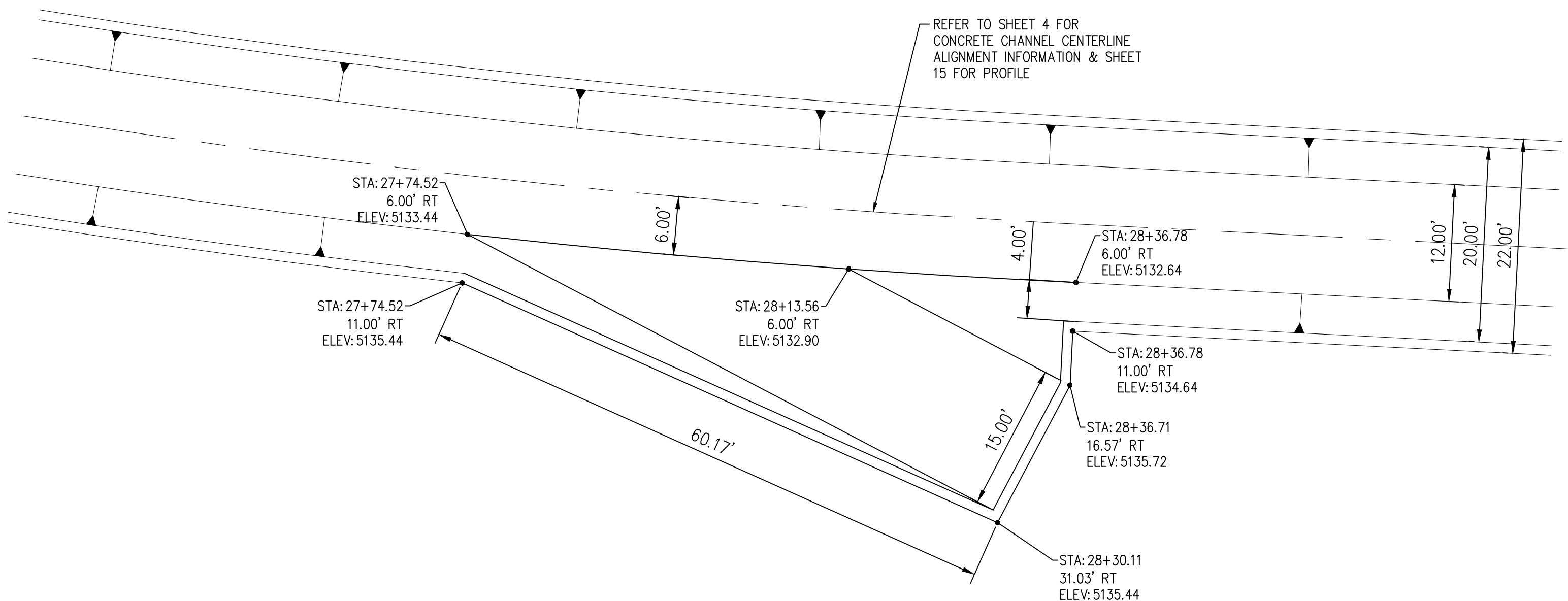
PROJECT NO: MO_P0029-01
DESIGNED BY: AES
DRAWN BY: KLF
CHECKED BY: JN
DATE: 1/25/2022

SHEET 16 OF 24

Thursday, January 6, 2022 1:42:58 PM - Kathy_Feunier
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CONCRETE PAVING PLAN VIEW



CONCRETE RAMP PLAN VIEW



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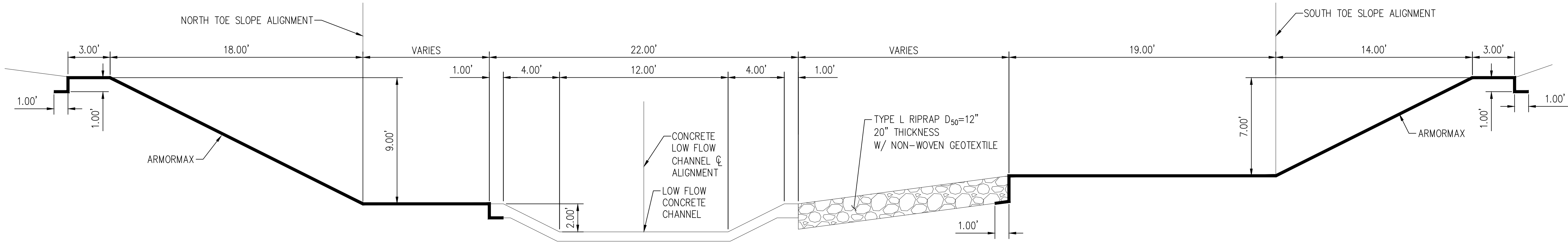
LOWER MONTOYAS ARROYO BANK
STABILIZATION PROJECT

CONCRETE PAVING AND RAMP DETAILS

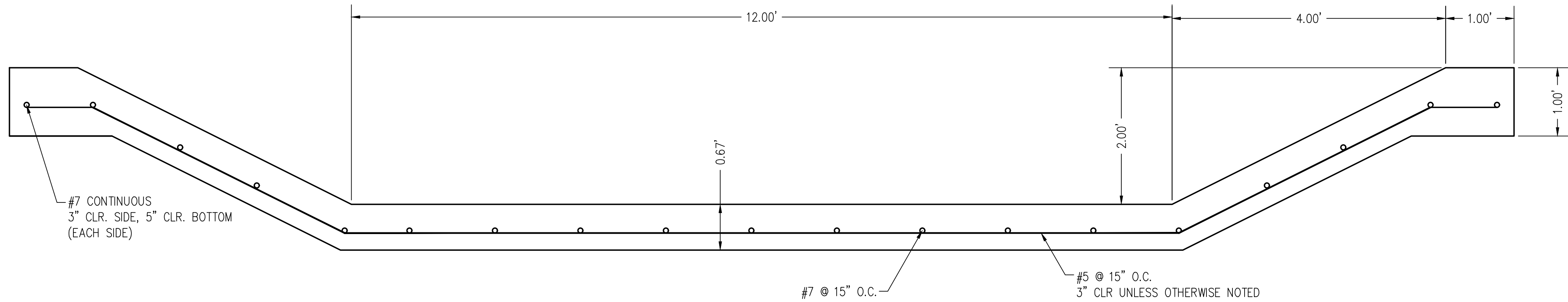
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER
SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

REVISIONS & CHANGE NOTICES		
MARK	DESCRIPTION	DATE

PROJECT NO: MO_P0029-01
DESIGNED BY: AES
DRAWN BY: KLF
CHECKED BY: JN
DATE: 1/6/2022



**TYPICAL COMPOSITE CHANNEL SECTION -
TO DEMONSTRATE COMPOSITE CHANNEL CONCEPT**



CONCRETE LOW FLOW CHANNEL SECTION
BASE BID = NO CONCRETE COLOR

CONCRETE LOW FLOW CHANNEL NOTES:

1. CAST-IN-PLACE CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH $f'_c=3000$ PSI MINIMUM.
2. ALL EXPOSED FORMED EDGES SHALL HAVE $\frac{3}{4}$ " CHANFER UNLESS OTHERWISE NOTED.
3. CHANNEL SUBGRADE PREPARATION TO A DEPTH OF 12", MUST ACHIEVE MAX. DRY DENSITY OF 95% PER ASTM D-1557
4. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. MINIMUM LAP LENGTHS FOR #5 AND #7 REBAR SHALL BE 30" AND 43", RESPECTIVELY.
5. EXPOSED CHANNEL CONCRETE SHALL HAVE A TINED FINISH, TINING SHALL BE APPLIED TRANSVERSE TO FLOW.
6. BASE BID = NO CONCRETE COLOR.

7. CONTROL JOINTS ARE REQUIRED AT A SPACING NOT TO EXCEED 18-FT. ALL CONTROL JOINTS SHALL BE SEALED WITH SONOLASTIC NP-1 OR APPROVED EQUAL.
8. CONSTRUCTION JOINTS SHALL BE IN ACCORDANCE WITH AMAFCA STANDARD DRAWING 102, SEE BID AND CONTRACT DOCUMENTS - VOLUME 2 - SPECIFICATIONS.

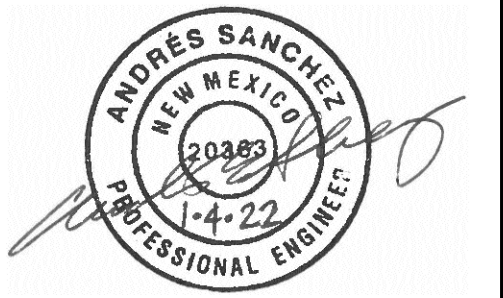
2 NOTES ADDED

1 REMOVAL OF ADDITIVE ALTERNATIVE #1



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LOWER MONTOYAS ARROYO BANK
STABILIZATION PROJECT

LOW FLOW CONCRETE CHANNEL
DETAILS

THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER
SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

REVISIONS &
CHANGE NOTICES

MARK	DESCRIPTION	DATE
1	REMOVAL OF ADD.	
	ALTERNATIVE #1	1/24/22
2	ADDED NOTES	1/26/22

PROJECT NO: MO_P0029-01
DESIGNED BY: AES
DRAWN BY: ###
CHECKED BY: JN
DATE: 1/6/2022

19

SHEET 19 OF 24

Thursday, January 6, 2022 2:05:44 PM - Kathy Frazier
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EROSION CONTROL INSTALLATION DETAILS

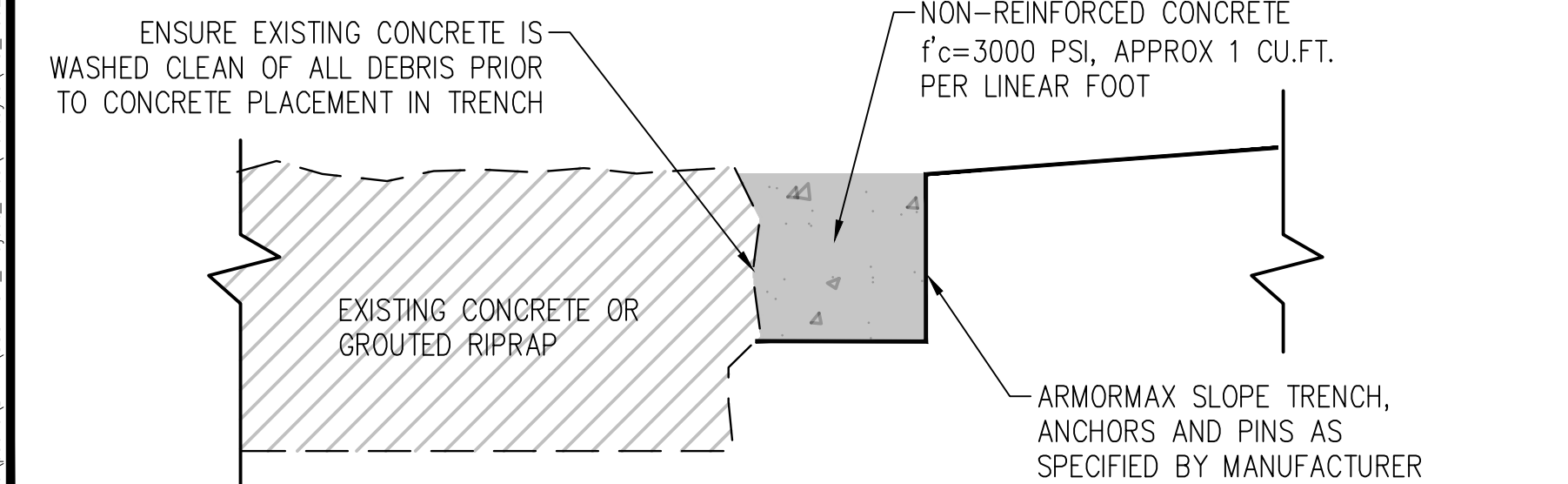
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1 of 1

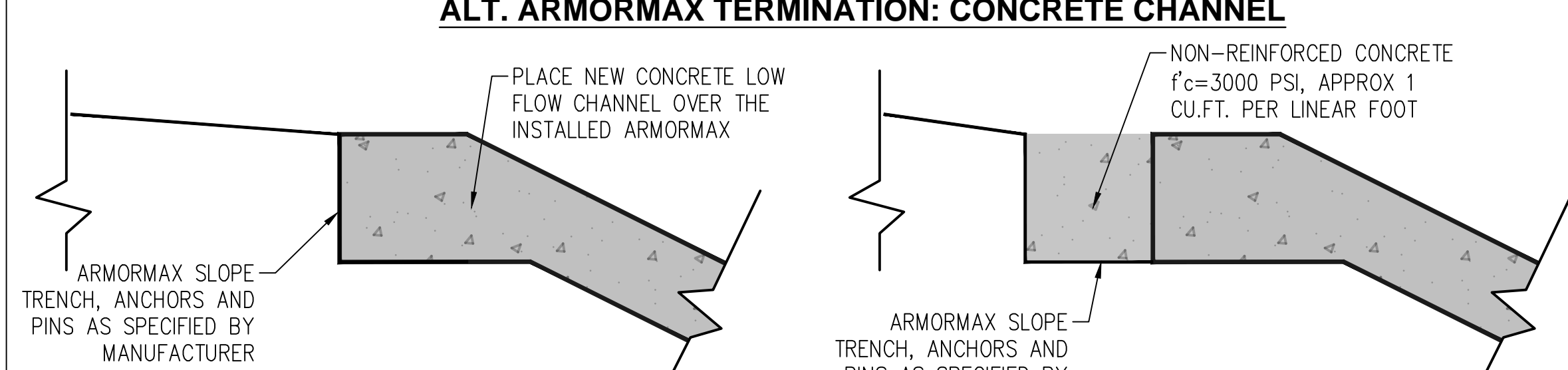
ARMORMAX®

ARMORMAX® 75 INSTALLATION
DETAILS FOR SLOPES

Date: 03/29/2017 Drawn By: J. HILL Scale: NTS
Rev: ALL DIMENSIONS ARE TO BE VERIFIED BY ENGINEER OF RECORD

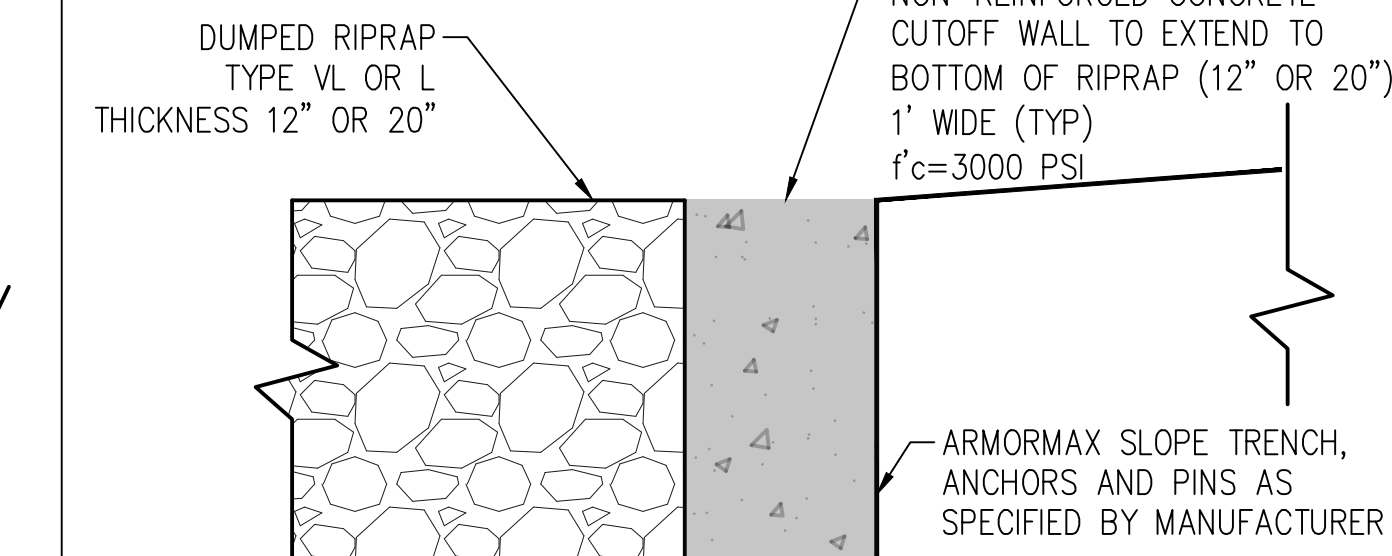


ALT. ARMORMAX TERMINATION: EXISTING CONCRETE OR GROUTED RIPRAP

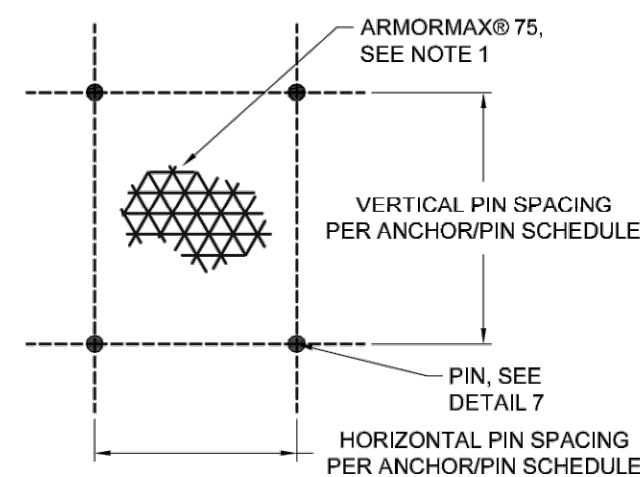
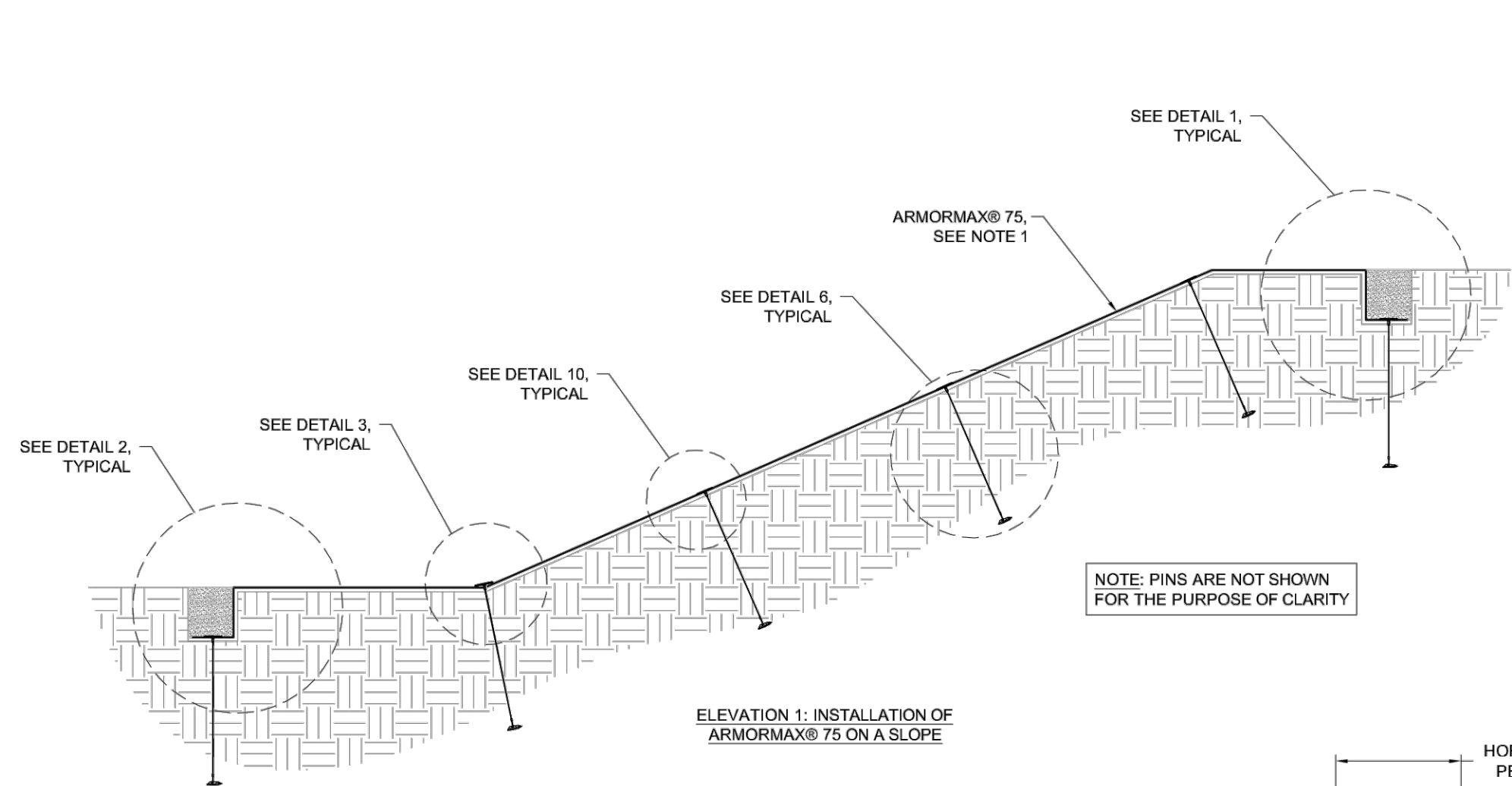


OPTION 1

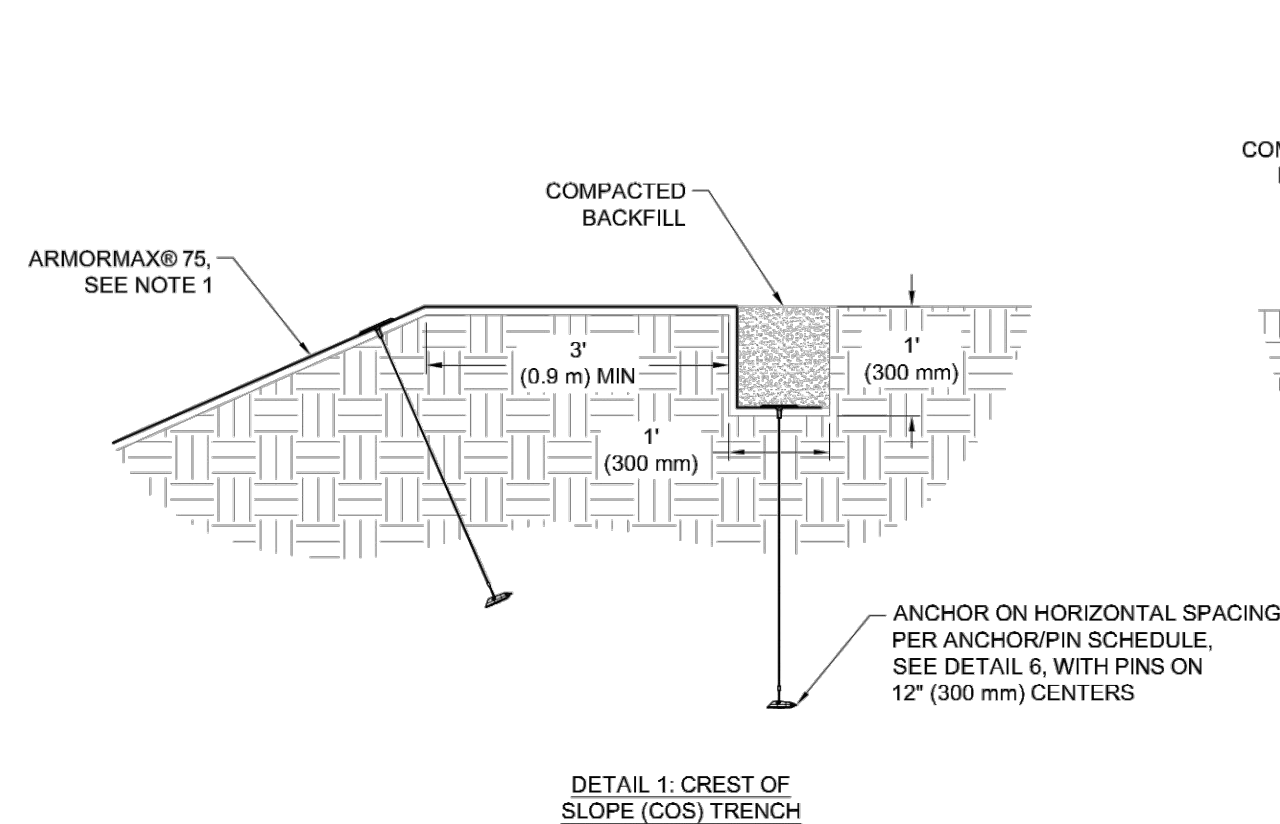
OPTION 2



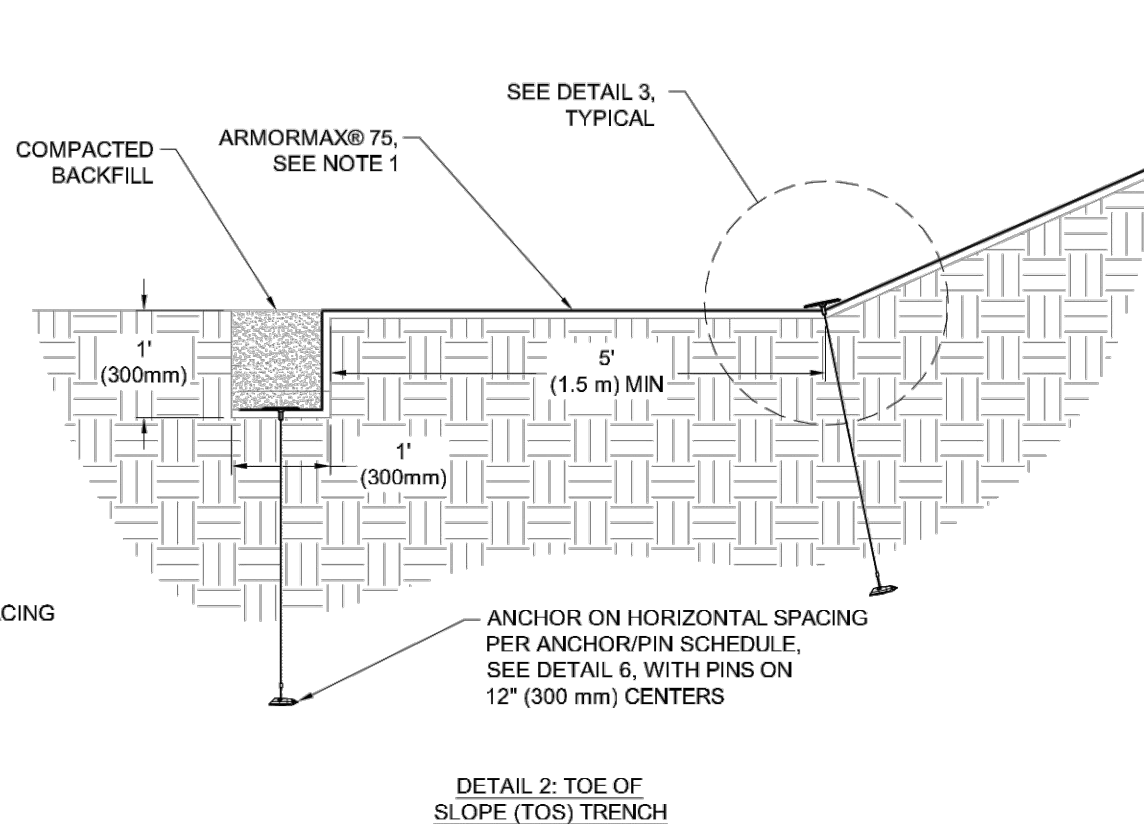
ALT. ARMORMAX TERMINATION: RIPRAP



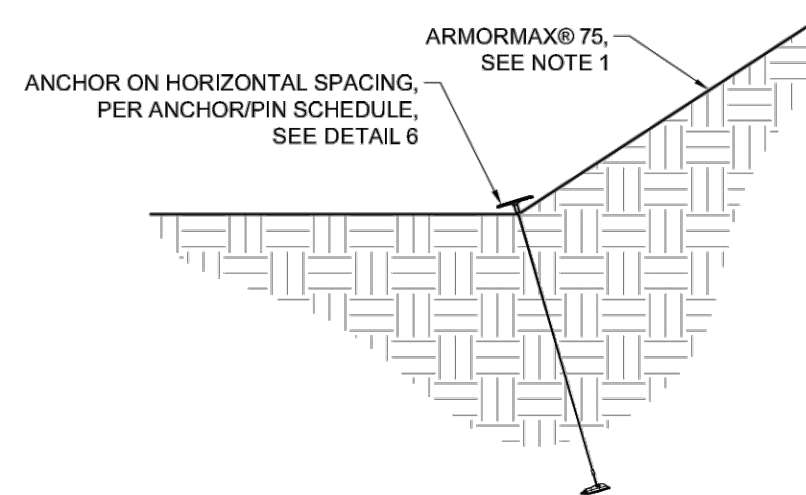
DETAIL 4: PIN PATTERN



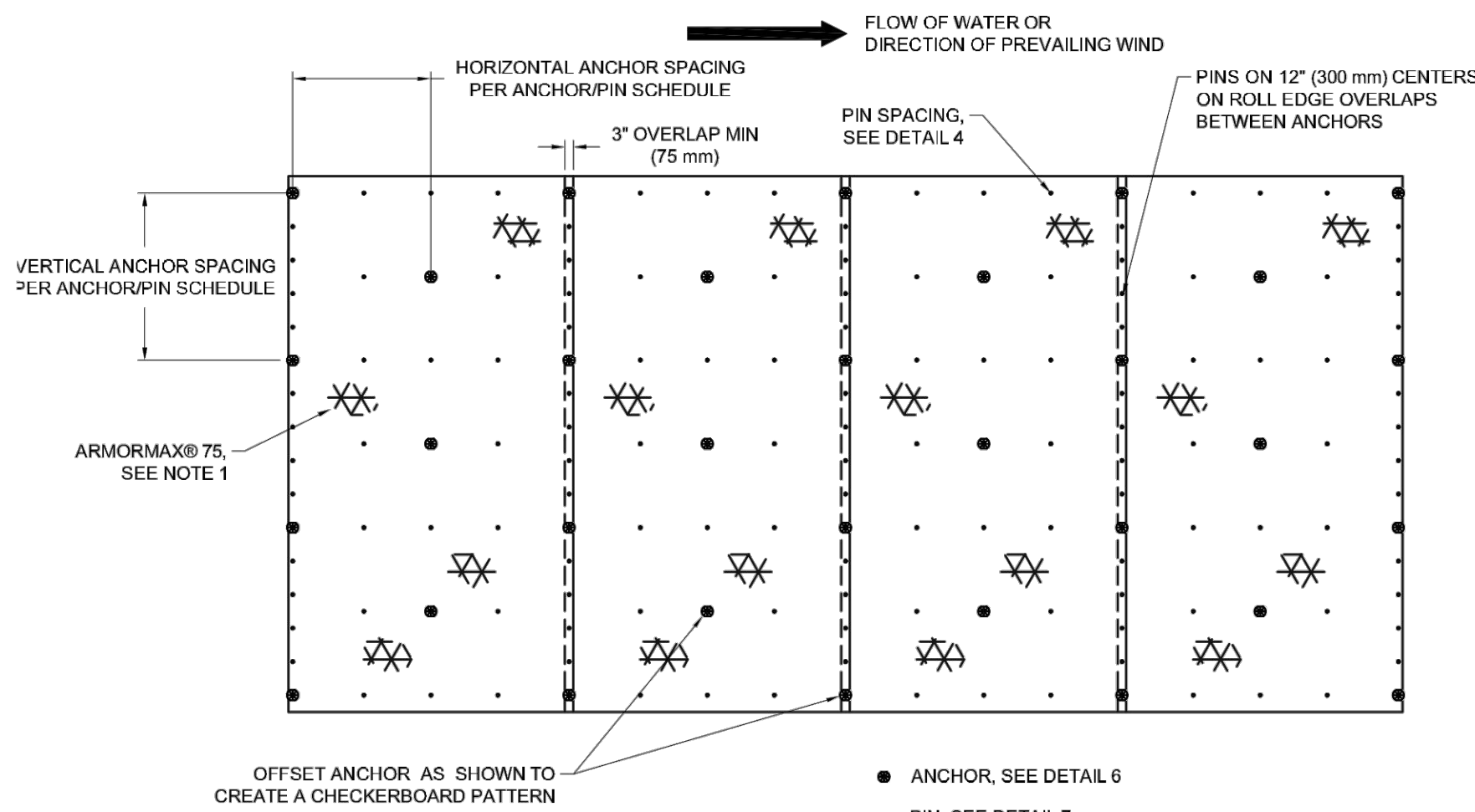
DETAIL 1: CREST OF SLOPE (COS) TRENCH



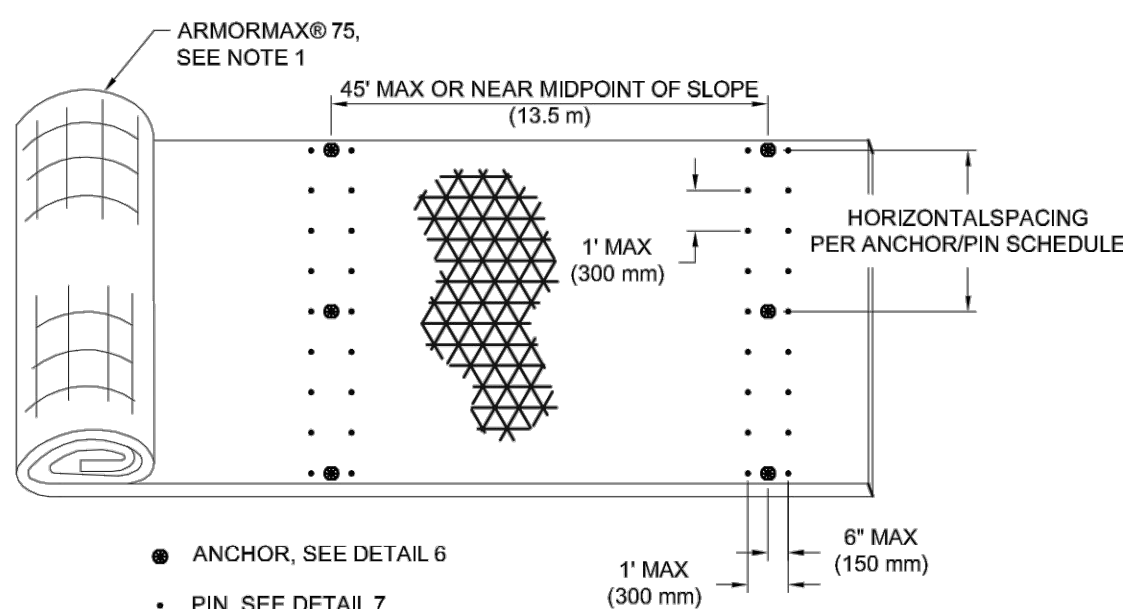
DETAIL 2: TOE OF SLOPE (TOS) TRENCH



DETAIL 3: BREAK IN SLOPE INTERFACE



DETAIL 5: ANCHOR / PIN PATTERN



DETAIL 9: SIMULATED CHECK SLOT DETAIL

ANCHOR/PIN SCHEDULE		
SECURING DEVICE	ANCHOR	PIN
HORIZONTAL ANCHOR SPACING	PER MANUFACTURERS RECOMMENDATIONS	PER MANUFACTURERS RECOMMENDATIONS
VERTICAL ANCHOR SPACING	PER MANUFACTURERS RECOMMENDATIONS	PER MANUFACTURERS RECOMMENDATIONS
EMBEDMENT DEPTH	PER MANUFACTURERS RECOMMENDATIONS	PER MANUFACTURERS RECOMMENDATIONS

ARMORMAX® 75 ON A SLOPE FOR EROSION CONTROL (NON-STRUCTURAL APPLICATION) GENERAL INSTALLATION GUIDELINES

GENERAL NOTES

- ARMORMAX® 75 is an engineered solution used for permanent erosion protection or surficial slope stability in vegetated and unvegetated applications. It is composed of two components: PYRAMAT® 75 High Performance Turf Reinforcement Mat (HPTRM) and Engineered Earth Anchors. The ARMORMAX® 75 is available in green or tan to provide for an aesthetically pleasing solution with proven performance.
- PYRAMAT® 75 HPTRM is a three-dimensional, lofty, woven polypropylene geotextile that is available in green or tan which is specially designed for erosion control applications on steep slopes and vegetated waterways. The matrix is composed of polypropylene monofilament yarns featuring X3® technology woven into a uniform configuration of resilient pyramid-like projections. The material exhibits very high interlock and reinforcement capacity with both soil and root systems, demonstrates superior UV resistance, and enhances seedling emergence.
- The Type B1 anchor model is used for permanent erosion protection applications and has a working load of up to 800 lbs. The Type B1 anchor consists of a die cast aluminum anchor head, zinc-aluminum coated carbon steel cable, a die cast zinc load-locking mechanism with a ceramic roller, and two aluminum ferrules. The bullet nose design of the anchor head allows the anchor to penetrate HPTRM resulting in minimal installation damage. The Type B1 anchor is also designed with a recessed cavity so the top of the cable can be cut below the surface being protected.
- The 12", 18", and 24" Securing Pins are composed of a wire, mushroomed at the top. A washer is then placed on the wire and the wire is crimped or swaged about 3-1/2" below the top so the washer will not slide off. The end of the wire is cut at a 45 degree angle for easy penetration of the soil. These Pins with washers conform to industry standards for erosion control pins with washers.
- LANDLOK® S2 Erosion Control Blankets consist of 100% wheat straw mechanically bound and covered on both sides by netting. The straw is homogeneously blended and evenly distributed throughout the blanket. The netting is photodegradable polypropylene with mesh openings of approximately 3/8 in. by 3/8 in. (11 mm by 11 mm). The blanket is sewn on approximately 2 in. (51 mm) centers with photodegradable polypropylene thread. This product is NTEP approved for AASHTO standards.

VEGETATION ESTABLISHMENT

- Prepare seedbed by loosening 50 to 75 mm (2 to 3 in) of soil above final grade. Apply seed in an amount equivalent to 60% of the total mixture required to be installed on the soil surface, to scarified surface prior to installation of the ARMORMAX® 75. Select and apply soil amendments and fertilizer, to scarified surface prior to installation of ARMORMAX® 75. A site specific soil test should be performed to help determine what soil amendments, such as lime and fertilizer, need to be incorporated into the soil to promote healthy vegetation.
- The installed ARMORMAX® 75 shall be soil filled and seeded with the remaining 40% of the seed mixture. Do not place excessive soil above material. Once soil fill and additional seed is in place, surficial protection should be accomplished by installing LANDLOK® S2 Erosion Control Blanket (ECB) atop the seed layer. LANDLOK® S2 ECB is to be secured using 6" U-shaped staples with a frequency of 2.0 staples per square meter (1.7 staples per square yard).
- Irrigate as necessary to establish and maintain vegetation until 75% of vegetation has established and has reached a height of 2 inches. Frequent, light irrigation will need to be applied to seeded areas if natural rain events have not occurred within two weeks of seeding.

BEFORE INSTALLATION BEGINS

- Coordinate with a Propex Representative: A pre-construction meeting is suggested with the construction team and a representative from Propex. This meeting should be scheduled by the contractor with at least a two week notice.
- Gather the Tools Needed: Tools that you will need to install ARMORMAX® 75 include a pair of industrial shears to cut PYRAMAT® 75, tape measure, percussion hammer (sized appropriately for the anchors), ground rod driver compatible with the percussion hammer, drive steel compatible with the anchor, setting tool to set and load-lock the anchor, and wire cutters to cut the cable tendon of the anchor. If Anchors will be load tested during construction, additional testing equipment may be necessary. Consult the "Anchor Load Test Manual" from Propex for further guidance. Available for purchase from Propex are drive steel, setting tools, and wire cutters.
- Determine how to Establish Vegetation: The method of vegetation establishment should be determined prior to the start of installation. Different vegetation establishment methods require different orders of installation. Refer to Establish Vegetation for further guidance.
- Please consult the Propex Website for the most up to date installation guidelines.



Southern Sandoval County Arroyo Flood Control Authority

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LOWER MONTOYAS ARROYO BANK
STABILIZATION PROJECT

ARMORMAX DETAILS

THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER
SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

REVISIONS & CHANGE NOTICES

MARK	DESCRIPTION	DATE

PROJECT NO: MO_P0029-01

DESIGNED BY: AES

DRAWN BY: JNF

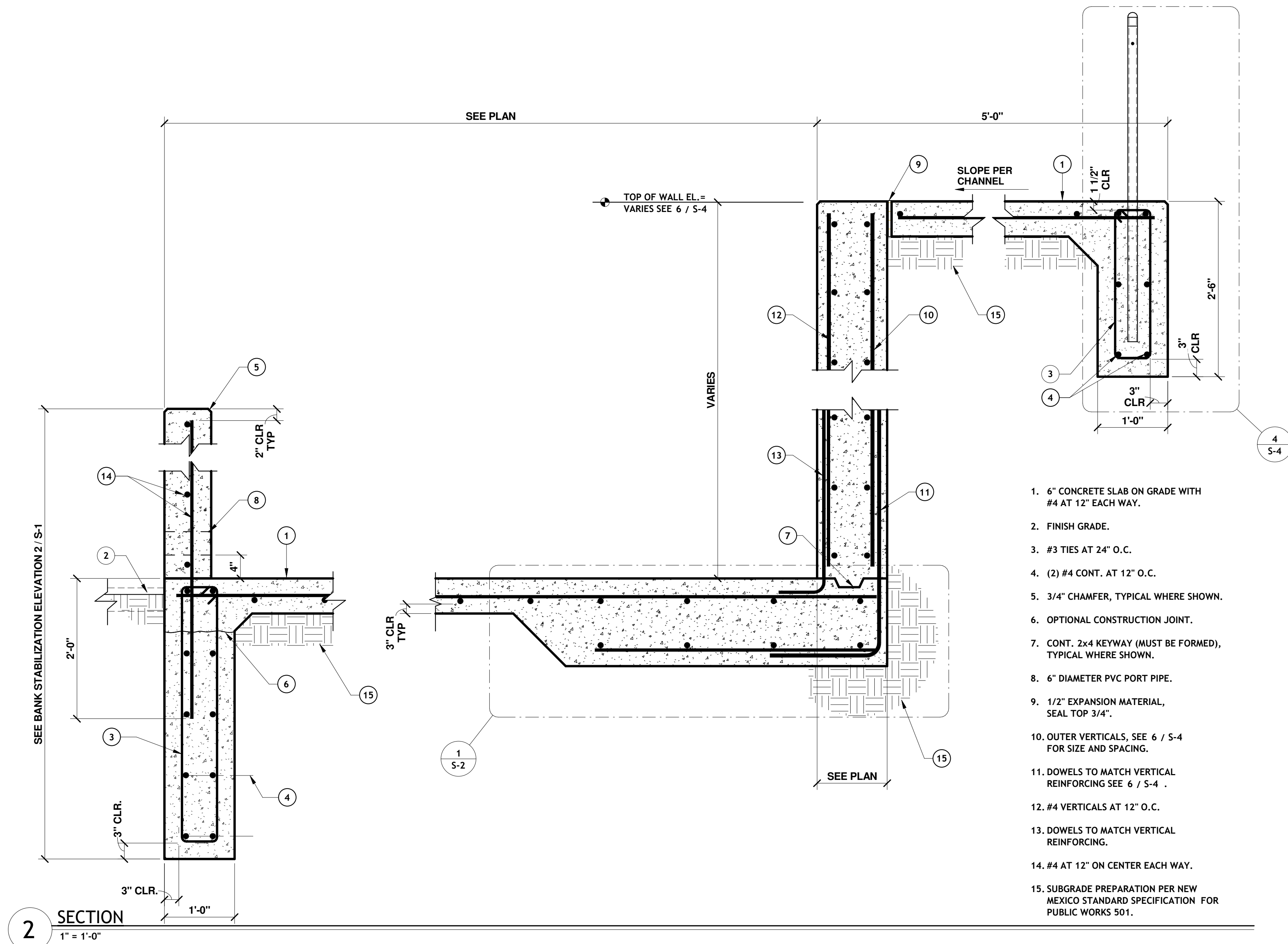
CHECKED BY: KJL

DATE: 1/6/2022

20

SHEET 20 OF 24

THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

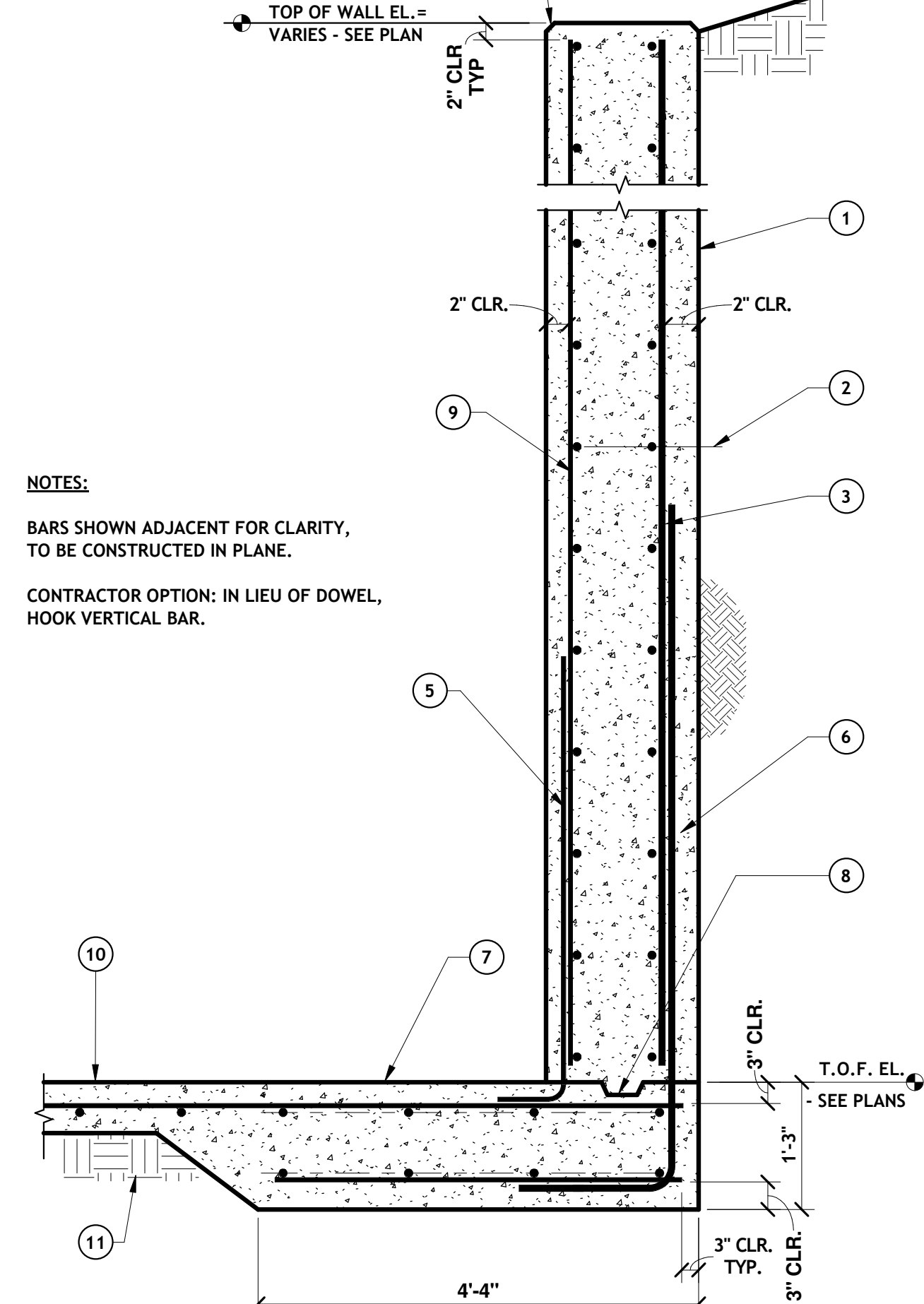


1. CONCRETE WALL, SEE PLANS.
2. #4 CONTINUOUS HORIZONTAL AT 12" O.C. EACH FACE, EACH WALL.
3. OUTER VERTICALS. SEE 3 / S-2 . FOR SIZE AND SPACING.
4. 3/4" CHAMFER, TYP.
5. #4 DOWELS TO MATCH VERTICAL REINFORCING INSIDE FACE OF WALL. SEE 4 / S-3 FOR LAP SPLICE LENGTH.
6. DOWELS TO MATCH VERTICAL REINFORCING SEE 3 / S-2 .
7. CONCRETE FOOTING AS SHOWN WITH (4) #4 CONTINUOUS, EVENLY SPACED BARS TOP AND BOTTOM. TRANSVERSE BARS #4 AT 12" O.C. TOP AND BOTTOM.
8. CONT. 2x4 KEYWAY (MUST BE FORMED), TYPICAL WHERE SHOWN.
9. #4 VERTICALS @ 12" ON CENTER.
10. 6" CONCRETE SLAB ON GRADE WITH #4 AT 12" EACH WAY.
11. SUBGRADE PREPARATION PER NEW MEXICO STANDARD SPECIFICATION FOR PUBLIC WORKS 501.

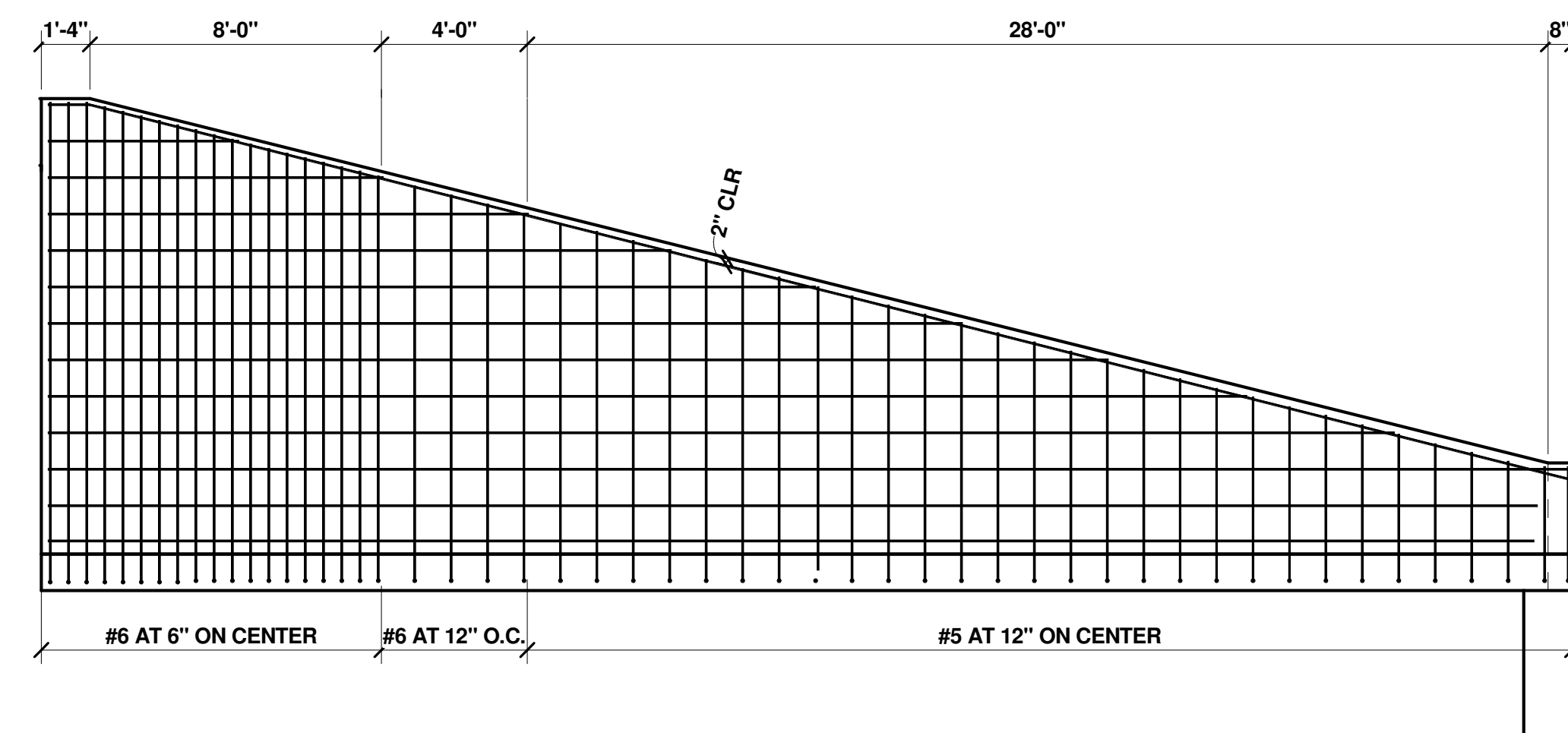
NOTES:

BAR SHOWN ADJACENT FOR CLARITY, TO BE CONSTRUCTED IN PLANE.

CONTRACTOR OPTION: IN LIEU OF DOWEL, HOOK VERTICAL BAR.



1. 6" CONCRETE SLAB ON GRADE WITH #4 AT 12" EACH WAY.
2. FINISH GRADE.
3. #3 TIES AT 24" O.C.
4. (2) #4 CONT. AT 12" O.C.
5. 3/4" CHAMFER, TYPICAL WHERE SHOWN.
6. OPTIONAL CONSTRUCTION JOINT.
7. CONT. 2x4 KEYWAY (MUST BE FORMED), TYPICAL WHERE SHOWN.
8. 6" DIAMETER PVC PORT PIPE.
9. 1/2" EXPANSION MATERIAL, SEAL TOP 3/4".
10. OUTER VERTICALS, SEE 6 / S-4 FOR SIZE AND SPACING.
11. DOWELS TO MATCH VERTICAL REINFORCING SEE 6 / S-4 .
12. #4 VERTICALS AT 12" O.C.
13. DOWELS TO MATCH VERTICAL REINFORCING.
14. #4 AT 12" ON CENTER EACH WAY.
15. SUBGRADE PREPARATION PER NEW MEXICO STANDARD SPECIFICATION FOR PUBLIC WORKS 501.



SSCA/CA
RIO RANCHO, NM

LOWER MONTOYAS BANK STABILIZATION

STRUCTURAL
CONCRETE REINFORCEMENT DETAILS

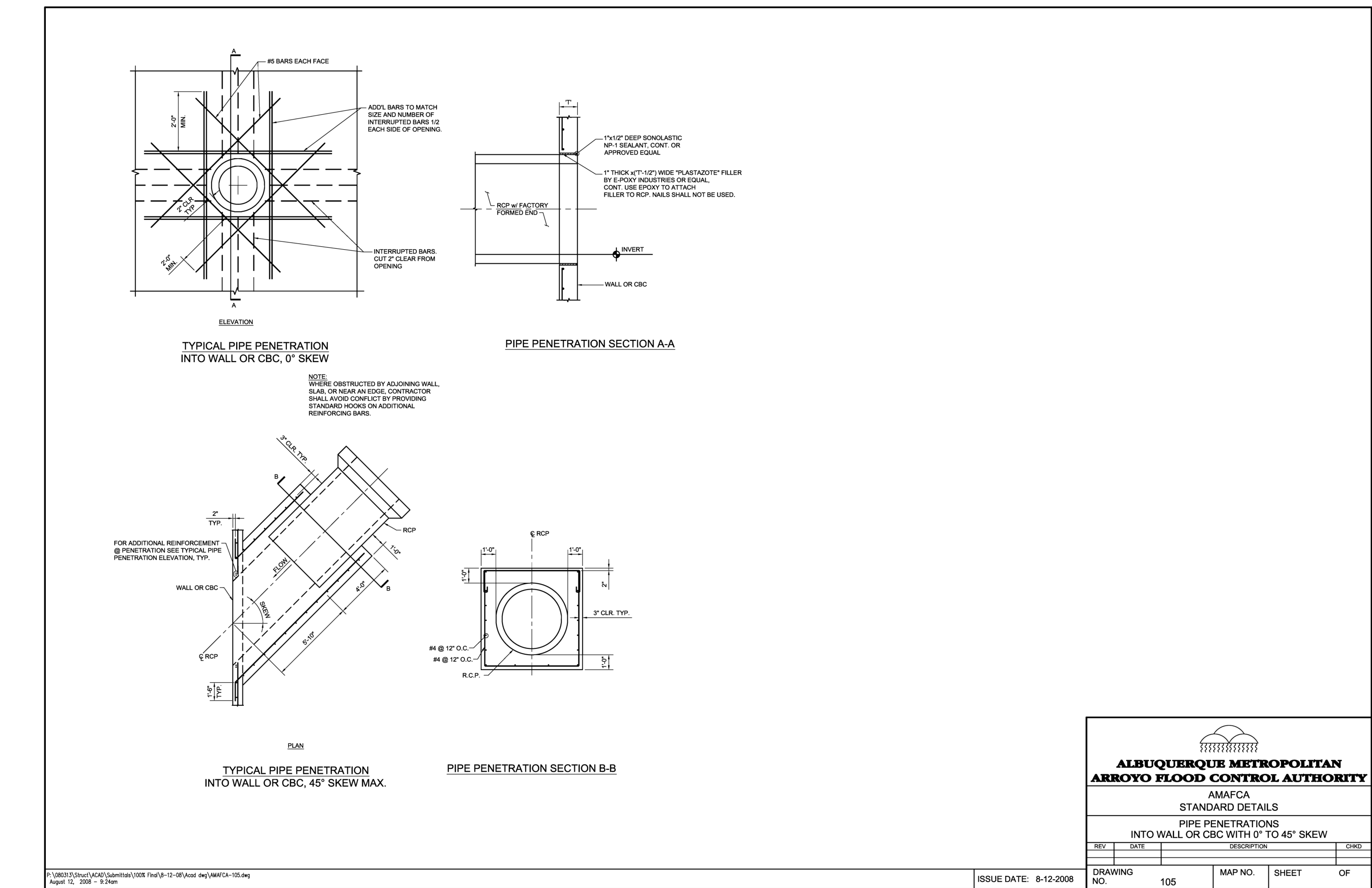
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Phone: 505-884-0700
www.smithengineering.pro

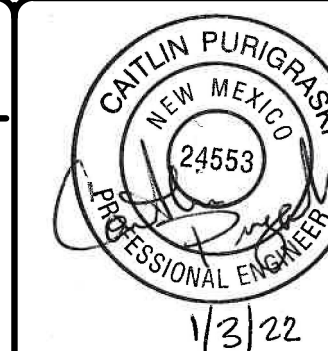


PROJECT NO:
119130-04

DATE
JANUARY 2022
SHEET NO:
S-2

THIS CONTRACT ALLOWS THE OWNER TO MAKE
PAYMENT WITHIN 45 DAYS AFTER SUBMISSION
OF AN UNDISPUTED REQUEST FOR PAYMENT.





- | SSCAFCA
RIO RANCHO, NM | |
|---------------------------|----------------------|
| 5 | |
| 4 | |
| 3 | |
| 2 | |
| 1 | |
| NO | REVISION DESCRIPTION |
| | DATE |
| | BY |



***Solutions for Today...
Vision for Tomorrow***

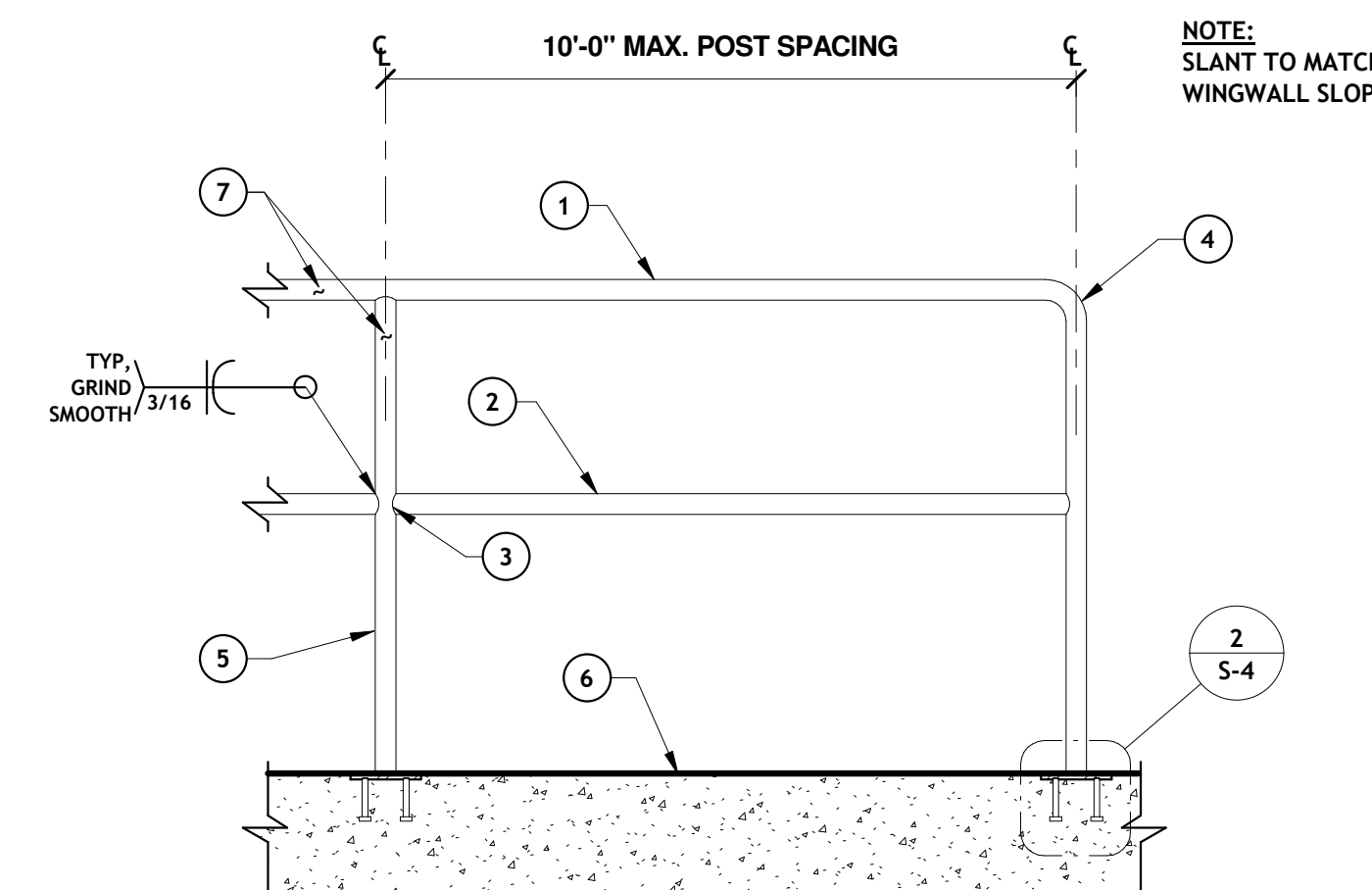


PROJECT NO:
119130-04

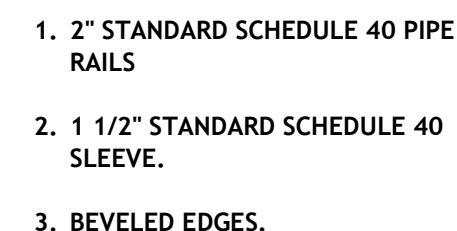
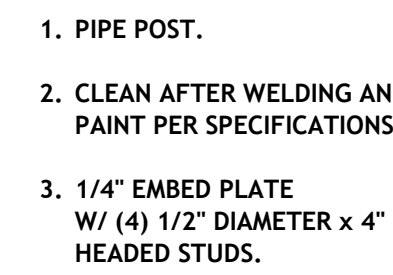
DATE:
JANUARY 202

SHEET NO:
S-4

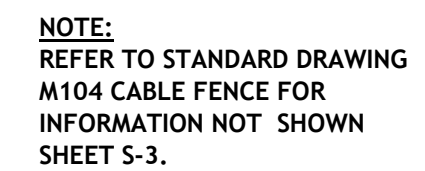
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



TYP,
GRIND
SMOOTH

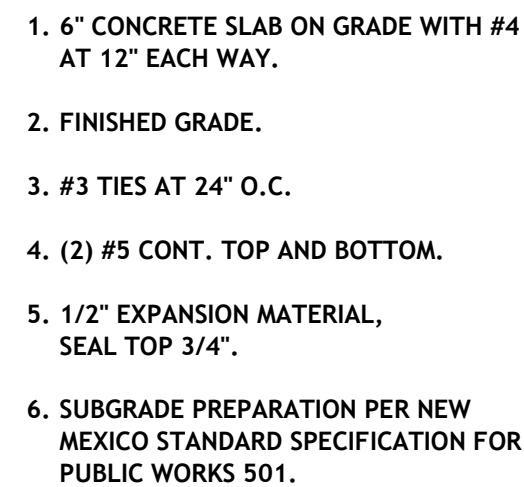


Technical drawing of a 2x8 beam with a 2x4 splice. The drawing shows a side view of the beam with a 2x4 splice in the center. Dimensions are given: 4 inches for the splice length, 1 inch for the overlap, and 8 inches for the total length of the splice area. Callouts 1, 2, 3, and 4 point to specific parts of the beam and splice. A note indicates a 3/16 inch dimension for one end only.



2'-0"

TURNDOWN SLAB EDGE, SEE PLANS



SEE PLAN

TOP OF SLAB EL. AT TOP OF WALL
SEE 6 / S-4

1'-8"

1'-4"

1 1/2" CLR.

3" CLR

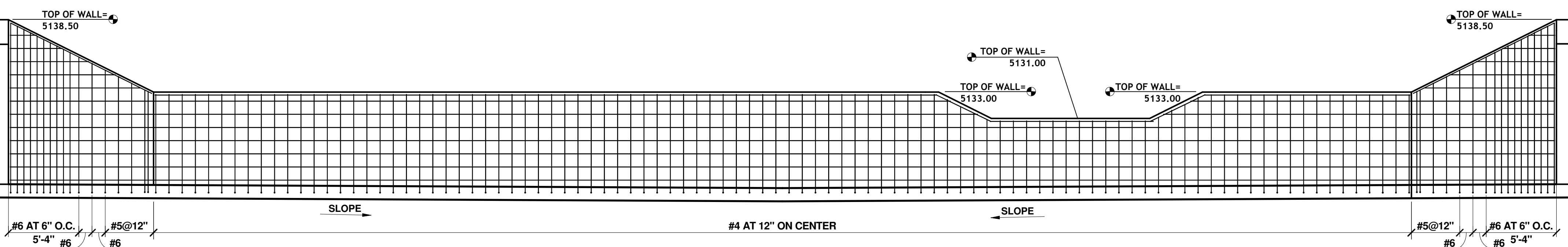
3" CLR

3

4

5

6



#6 AT 6" O.C. #5@12"

THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.