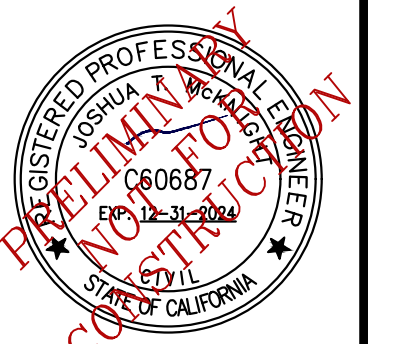


67 WALNUT WAY  
 WILLOW CREEK, CA 95573  
 P:(530)629-3000  
 F:(530)629-3011



REV	DATE	DESCRIPTION	DWN BY	ISS BY	CHK BY	APP BY

VALADAO, ET AL  
 1830 PICKEREL ROAD  
 MCKINLEYVILLE, CA 95519  
 APRN 510-381-021

**TITLE SHEET**

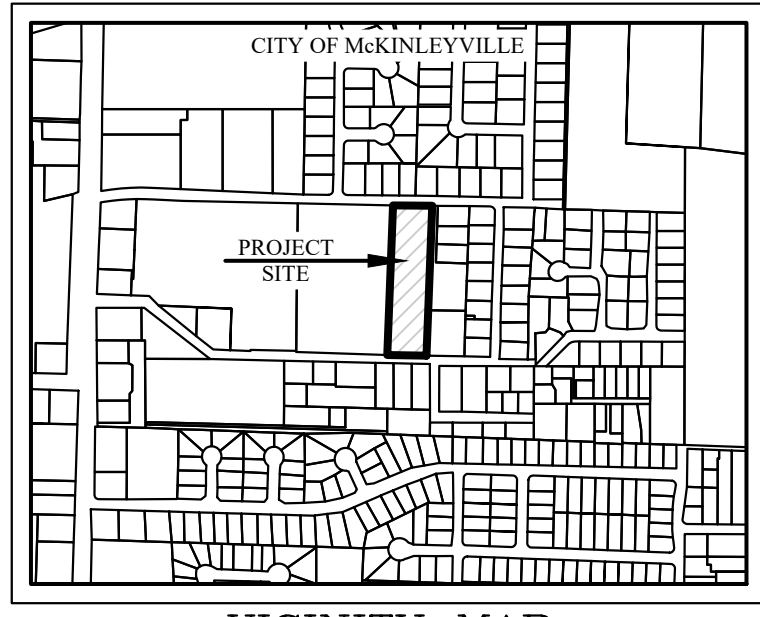
HUMBOLDT, CALIFORNIA

DATE OF ISSUE:  
 FEB 2023

SCALE:  
 AS SHOWN

PROJECT NO:  
 873.01

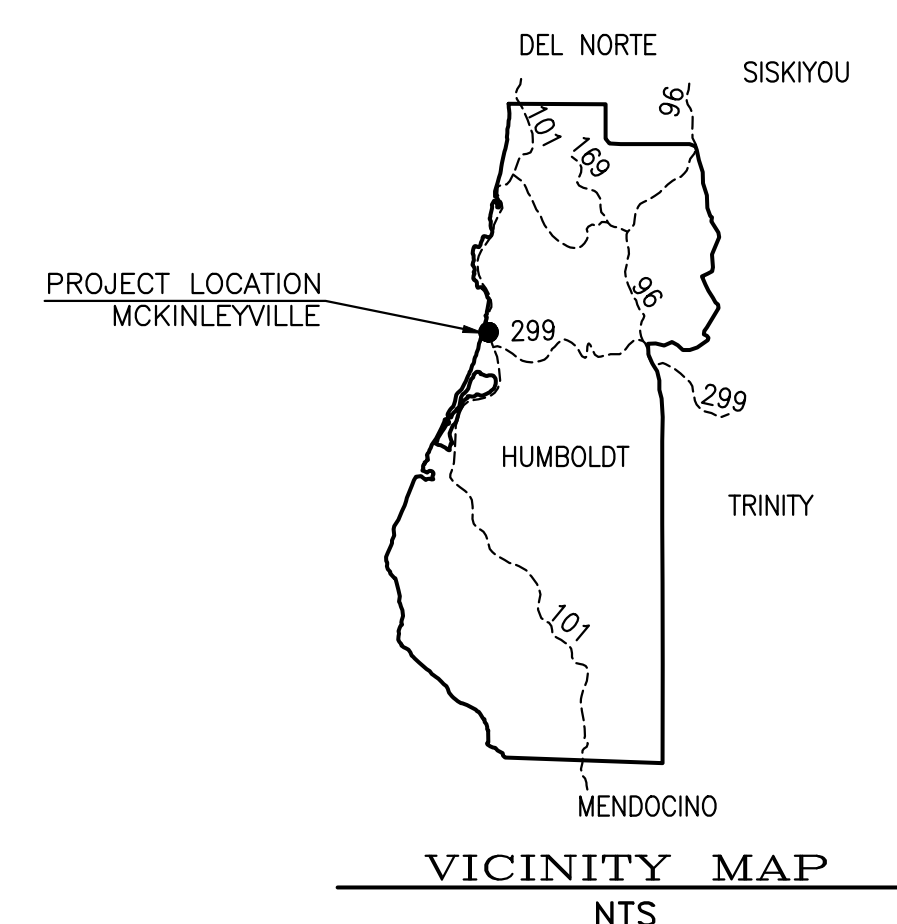
DRAWING NO:  
**T01**



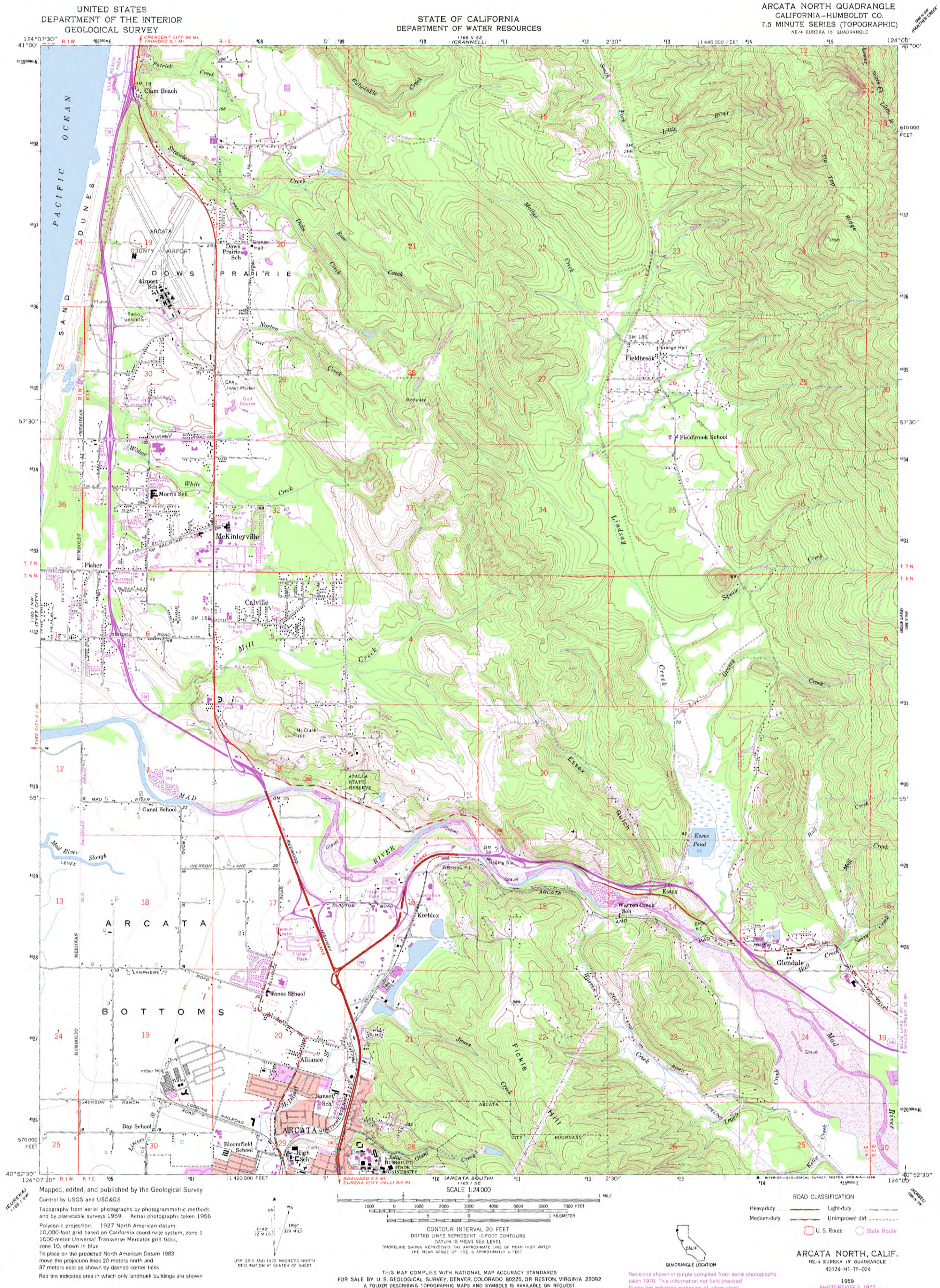
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 NTS



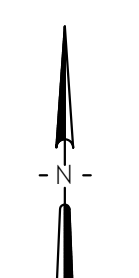
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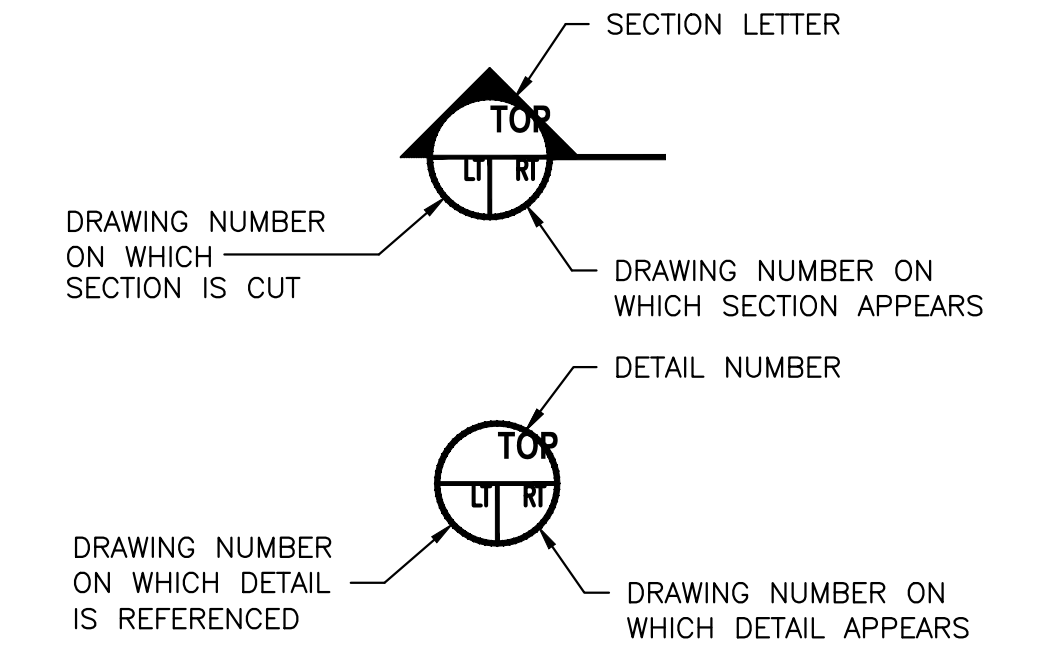
VICINITY MAP  
 NTS



PLAN VIEW  
 SCALE: NTS



**SYMBOLS**



TENTATIVE SUBDIVISION MAP BEING  
 CONCURRENTLY PREPARED BY  
 KELLY-O'HERN ASSOCIATES OF EUREKA, CA

**SHEET INDEX**

DRAWING #	TITLE	REVISION	DATE
T01.0	TITLE SHEET	0	3/10/2023
C00.0	PLOT PLAN	0	3/10/2023
C01.0	NOTES	0	3/10/2023
C02.0	EXISTING CONDITIONS	0	3/10/2023
C02.1	DEMOLITION PLAN	0	3/10/2023
C03.0	GRADING PLAN	0	3/10/2023
C03.1	SECTIONS	0	3/10/2023
C03.2	GRADING DETAILS 1	0	3/10/2023
C03.3	GRADING DETAILS 2	0	3/10/2023
C04.0	ELECTRIC & TELECOM PLAN	0	3/10/2023
C04.1	WATER PLAN	0	3/10/2023
C04.2	SANITARY SEWER PLAN	0	3/10/2023
C04.3	STORM DRAIN PLAN	0	3/10/2023
C05.0	TEMPORARY EROSION CONTROL PLAN	0	3/10/2023
C05.1	TEMPORARY EROSION CONTROL DETAILS 1	0	3/10/2023
C05.2	TEMPORARY EROSION CONTROL DETAILS 2	0	3/10/2023
L01.0	LID PLAN	0	3/10/2023

**BUILDING CODE COMPLIANCE**

BUILDING SHALL COMPLY WITH 2019 CALIFORNIA BUILDING CODE (CBC), 2019 CALIFORNIA PLUMBING CODE (CPC), 2019 CALIFORNIA MECHANICAL CODE (CMC), 2019 CALIFORNIA ELECTRICAL CODE (CEC), 2019 CALIFORNIA ENERGY EFFICIENCY STANDARDS CODE, 2019 CALIFORNIA FIRE CODE (CFC), 2019 GREEN BUILDING STANDARDS CODES, AND ALL APPLICABLE CODES.

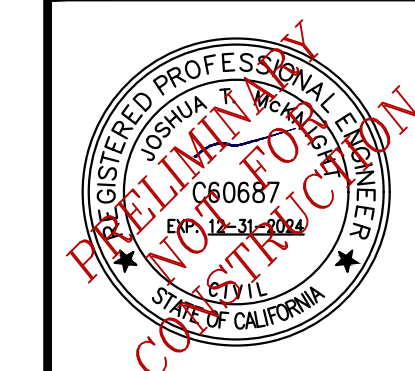
**CONTRACTOR ALERT!**

CONTRACTOR MUST CONTACT USA DIG AT 800-227-2600 AT LEAST 72 HOURS BEFORE ANY EARTHWORK OR ACTIVITIES THAT MAY IMPACT EXISTING UNDERGROUND UTILITIES.

EXISTING UTILITY ALIGNMENTS BOTH HORIZONTALLY AND VERTICALLY MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION ACTIVITIES.

**ABBREVIATIONS**

- AC = ASPHALTIC CONCRETE
- AB = AGGREGATE BASE
- A.D. = ALGEBRAIC DIFFERENCE
- BC, PC = BEGIN CURVE
- CO = CLEAN OUT
- CL = CENTER LINE
- CMP = CORRUGATED METAL PIPE
- CPCT. = COMPACT
- D = DELTA
- DET = DETAIL
- DRN = DRAIN
- <A> = EXISTING
- EC = END CURVE
- EG = EXISTING GROUND
- EP = EDGE OF PAVEMENT
- FF = FINISH FLOOR
- FG = FINISH GRADE
- FH = FIRE HYDRANT
- FL = FLOW LINE
- GA = GUY ANCHOR
- GV = GATE VALVE
- HC = HANDICAPPED
- HDPE = HIGH DENSITY POLYETHYLENE PIPE
- INV = INVERT
- (INT-X) = INTERSECTION
- K = SIGHT DISTANCE
- LAT = LATERAL
- LD. = LOCAL DEPRESSION
- LF. = LINEAR FEET
- LF. = SEWER LEACH FIELD
- LT. = LEFT
- MAS. = MASONRY
- MI = MILES
- MSE = MECHANICALLY STABILIZED EARTH
- (N) = NEW
- NTS = NOT TO SCALE
- O.C. = ON CENTER
- PG&E = PACIFIC GAS & ELECTRIC
- (P) = PROPOSED
- PP = POWER POLE
- PRC = POINT OF REVERSE CURVE
- PT = POINT
- PVI = POINT OF VERTICAL INTERSECTION
- PVT = PRIVATE
- RT = RIGHT
- RTN = RETURN
- SB = SET BACK
- SDMH = STORM DRAIN MAN HOLE
- SHT = SHEET
- SD = STORM DRAIN
- STA = STATION
- STD. = STANDARD
- TC = TOP OF CURB
- TBC = TOP BACK OF CURB
- TFC = TOP FACE OF CURB
- TOB = TOP OF BANK
- TEL = TELEPHONE
- TP = TOP OF PAVEMENT
- TVCE = TRINITY VALLEY CONSULTING ENGINEERS
- TW = TOP OF WALL
- (TYP) = TYPICAL
- UG = UNDERGROUND
- W = WATER
- WV = WATER VALVE



**GENERAL NOTES:**

1. DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN IN THESE DRAWINGS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE CONTRACT SPECIFICATIONS.
2. THE CONTRACTOR SHALL PROVIDE ALL UTILITIES AS NECESSARY TO SUCCESSFULLY COMPLETE ALL CONSTRUCTION ACTIVITIES.
3. ALL EXISTING AND PROPOSED DIMENSIONS DEPICTED HEREIN SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO STARTING WORK.
4. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER ON ALL CONSTRUCTION ACTIVITIES.
5. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITIES, WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE. ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE EXPEDITIOUSLY REPAIRED OR RECONSTRUCTED TO THE ENGINEER'S SATISFACTION AT THE CONTRACTOR'S SOLE EXPENSE WITHOUT ADDITIONAL COMPENSATION.
6. THE CONTRACTOR SHALL POSSESS THE CLASS, OR CLASSES, OF LICENSE AS SPECIFIED IN THE NOTICE TO CONTRACTORS.
7. THE CONTRACTOR IS TO EXPOSE THE ENDS OF EXISTING BURIED UTILITIES FOR SURVEYORS TO VERIFY LOCATION AND ELEVATION PRIOR TO PLACEMENT OF NEW UTILITIES. ALL COSTS OF SUCH EXCAVATION AND BACKFILL SHALL BE INCLUDED IN THE PRICE PAID FOR VARIOUS ITEMS OF WORK.
8. ALL APPLICABLE FEES TO BE PAID AND PERMITS REQUIRED SHALL BE OBTAINED BY THE CONTRACTOR BEFORE COMMENCEMENT OF CONSTRUCTION.
9. THE TYPES, LOCATIONS, SIZES, AND DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE IMPROVEMENT PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES, HOWEVER, TVCE CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT DEPICTED ON THESE DRAWINGS.
10. THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME 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 BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
11. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF U.S.A. TWO WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING THE TOLL FREE NUMBER 1-800-227-2600.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION. ALL SUCH MONUMENTS OR MARKERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
13. UNDOCUMENTED PIPING EXPOSED DURING CONSTRUCTION SHALL BE LOCATED AND MARKED BY THE CONTRACTOR FOR INCLUSION IN AS-BUILT DRAWINGS.
14. ALL NEW BURIED PIPING SHALL HAVE A MINIMUM OF 3 FEET OF COVER UNLESS OTHERWISE SPECIFIED.

**CULTURALLY SENSITIVE AREAS:**

1. AREAS WITHIN THE PROJECT PERIMETER THAT ARE CULTURALLY SENSITIVE SHALL BE PROTECTED AGAINST DAMAGE FROM CONSTRUCTION ACTIVITIES. AT NO TIME SHALL SUCH CULTURALLY SENSITIVE AREAS BE ENTERED, PARKED UPON, STOCK PILED UPON, OR HAVE ANY OTHER ACTIVITY ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT IN ANY WAY INFRINGE UPON, DETERIORATE, DESTROY, OR RENDER TO A STATE OR CONDITION UNACCEPTABLE ANY CULTURALLY SENSITIVE AREA. THE CONTRACTOR AGREES TO PROTECT ALL SUCH AREAS DURING ANY AND ALL ACTIVITIES ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT.

**QUANTITIES:**

1. QUANTITIES AND LENGTHS OF ITEMS PROVIDED WITHIN THIS PLAN SET ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ACTUAL QUANTITIES OF COMPONENTS REQUIRED FOR THE SUCCESSFUL AND SATISFACTORY COMPLETION OF THE PROJECT.

**TRAFFIC CONTROL NOTES:**

1. WHENEVER THE WORK AREA IS ADJACENT TO A TRAFFIC LANE AND THERE IS A CUT, DITCH OR TRENCH MORE THAN TWO INCHES DEEP, THE CONTRACTOR SHALL MAINTAIN CONTINUOUS BARRICADES SPACED AT APPROXIMATELY 20-FOOT INTERVALS FOR THE FIRST 100 FEET FROM THE BEGINNING OF THE CUT, DITCH OR TRENCH, AND AT APPROXIMATELY 50-FOOT INTERVALS THEREAFTER. IF THE CUT, DITCH OR TRENCH IS MORE THAN TEN FEET FROM A TRAFFIC LANE, THE BARRICADED SPACING MAY BE GREATER BUT SHALL NOT EXCEED 200 FEET.
2. UNLESS SPECIFICALLY SET FORTH AS SPECIAL PROVISIONS, ALL MARKED LANES OF TRAFFIC SHALL BE UNOBSTRUCTED IN EACH DIRECTION DURING THE PEAK TRAFFIC HOURS OF 7:00 TO 8:30AM AND 3:30 TO 6:00 PM.
3. SAFE VEHICULAR AND PEDESTRIAN ACCESS SHALL BE PROVIDED AT ALL TIMES DURING CONSTRUCTION.
4. TRACK MOUNTED VEHICLES SHALL NOT BE OPERATED ON PAVED ROADS.

**AGGREGATE BASE ROCK NOTES:**

1. AGGREGATE BASE SHALL BE CALTRANS CLASS II.
2. AGGREGATE BASE SHALL BE INSTALLED PER SECTION 26 OF THE CALTRANS STANDARD SPECIFICATIONS.
3. AGGREGATE BASE SHALL BE COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION PER CAL 316.

**ASPHALT CONCRETE NOTES:**

1. ASPHALT CONCRETE SHALL BE 1/2" MAXIMUM RADIUS HOT MIX TYPE A.
2. ASPHALT CONCRETE SHALL BE INSTALLED IN STRICT ACCORDANCE WITH SECTION 39 OF THE CALTRANS STANDARD SPECIFICATIONS.
3. ASPHALT CONCRETE SHALL BE COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION AS VERIFIED PER CAL 216.
4. EXISTING AC SURFACES SHALL BE CUT TO A NEAT STRAIGHT LINE PARALLEL WITH THE CENTERLINE AND THE EXPOSED EDGE SHALL BE TACKED WITH EMULSION PRIOR TO PAVING. THE EXPOSED BASE MATERIAL SHALL BE GRADED, RE-COMPACTED, AND RESEALED PRIOR TO PAVING.

**ELECTRIC GENERAL NOTES:**

1. ALL ELECTRIC FACILITIES AND WORK TO BE IN STRICT COMPLIANCE WITH APPLICABLE LAWS AND MUST MEET PACIFIC GAS AND ELECTRIC (PG&E) REQUIREMENTS PER CURRENT GREEN BOOK.
2. REFER TO PG&E SITE PLAN FOR ADDITIONAL DETAILS NOT EXPRESSED ON THIS SHEET.
3. CONTRACTOR TO COORDINATE WITH PG&E FOR ALL REQUIRED TESTING/INSPECTION AND FOR PG&E INSTALLED FACILITIES.
4. OWNER HAS THE RESPONSIBILITY OF PAYING ALL FEES TO PG&E DIRECT FOR THEIR SERVICES/FACILITIES UNDER THE ORIGINAL APPLICATION FOR THIS PROJECT. ADDITIONAL COSTS RESULTING DIRECTLY FROM THE CONTRACTOR'S ACTIVITIES AND NOT EXPRESSLY COVERED UNDER THE ORIGINAL APPLICATION WILL BE THE SOLE EXPENSE OF THE CONTRACTOR.
5. POWER/ELECTRICAL FACILITIES DEPICTED ON THESE PLAN SETS ARE FOR GENERAL LOCATION PURPOSES, ACTUAL HARDWARE, ALIGNMENTS, PLACEMENT, AND DESIGN TO BE PROVIDED BY PACIFIC GAS & ELECTRIC (PG&E). CONTRACTOR TO COORDINATE WITH PG&E FOR DESIGN AND INSTALLATION OF REQUIRED COMMUNICATION FACILITIES.

**COMMUNICATIONS GENERAL NOTES:**

1. ALL COMMUNICATIONS FACILITIES AND WORK TO BE IN STRICT COMPLIANCE WITH APPLICABLE LAWS AND MUST MEET ALL FRONTIER REQUIREMENTS AS APPLICABLE UNDER CPUC.
2. CONTRACTOR TO COORDINATE WITH FRONTIER FOR ALL REQUIRED TESTING/INSPECTION AND FOR FRONTIER INSTALLED FACILITIES.
3. OWNER HAS THE RESPONSIBILITY OF PAYING ALL FEES TO FRONTIER DIRECT FOR THEIR SERVICES/FACILITIES UNDER THE ORIGINAL APPLICATION FOR THIS PROJECT. ADDITIONAL COSTS RESULTING DIRECTLY FROM THE CONTRACTOR'S ACTIVITIES AND NOT EXPRESSLY COVERED UNDER THE ORIGINAL APPLICATION WILL BE THE SOLE EXPENSE OF THE CONTRACTOR.
4. TELEPHONE/COMMUNICATION FACILITIES DEPICTED ON THESE PLAN SETS ARE FOR GENERAL LOCATION PURPOSES, ACTUAL HARDWARE, ALIGNMENTS, PLACEMENT, AND DESIGN TO BE PROVIDED BY FRONTIER. CONTRACTOR TO COORDINATE WITH FRONTIER FOR DESIGN AND INSTALLATION OF REQUIRED COMMUNICATION FACILITIES.

**DUST CONTROL NOTES:**

1. THE CONTRACTOR SHALL IMPLEMENT ONE OR BOTH OF THE FOLLOWING MEASURES FOR DUST CONTROL ON THIS SITE:
  - 1.1 SPRAYING OF WATER SO AS NOT TO GENERATE ADDITIONAL RUNOFF. NO DUST PALLIATIVE MATERIALS OTHER THAN WATER WILL BE USED ON THIS PROJECT. IF NON-POTABLE WATER IS TO BE USED, IT MUST BE CONVEYED IN TANKS OR PIPES CLEARLY LABELED AS "NON-POTABLE WATER - DO NOT DRINK".
  - 1.2 COVERS FOR EXPOSED AREAS.

**EQUIPMENT & MATERIALS STORAGE NOTES:**

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL MATERIALS AND EQUIPMENT STORED ONSITE SHALL HAVE ADEQUATE COVERINGS AND CONTAINMENT TO PREVENT LEAKAGE AND SPILLS.
2. ALL MATERIALS AND EQUIPMENT SHALL BE STORED IN DESIGNATED AND APPROVED AREAS. THE AREA SHALL BE BERMED WITH EARTH DIKES THAT THE CONTRACTOR SHALL INSPECT AND MAINTAIN WEEKLY.
3. ALL FLAMMABLE, REACTIVE, AND/OR IGNITABLE LIQUIDS MUST COMPLY WITH LOCAL FIRE CODES.
4. DURING THE RAINY SEASON (OCTOBER THROUGH APRIL) THE CONTRACTOR SHALL ENSURE THAT MATERIALS ARE COVERED.
5. NO CHEMICALS, DRUMS, OR BAGGED MATERIALS SHALL BE STORED DIRECTLY ON THE GROUND; ITEMS SHALL BE PLACED ON PALLETS AND/OR IN SECONDARY CONTAINMENT.
6. IF DRUMS MUST BE KEPT UNCOVERED, THE CONTRACTOR SHALL STORE THEM AT A SLIGHT ANGLE TO REDUCE PONDING OF RAINWATER AND REDUCE CORROSION.
7. WHEN DANGEROUS MATERIALS AND/OR LIQUID CHEMICALS ARE UNLOADED ONSITE, THE CONTRACTOR SHALL HAVE EMPLOYEES TRAINED IN EMERGENCY SPILL CLEANUP PROCEDURES PRESENT.

**VEHICLE MAINTENANCE NOTES:**

1. EQUIPMENT AND VEHICLES TRAVELING ONSITE SHALL BE INSPECTED REGULARLY FOR LEAKS AND BE REPAIRED IMMEDIATELY; DO NOT ALLOW LEAKING VEHICLES ONSITE. KEEP VEHICLES AND EQUIPMENT CLEAN (DO NOT ALLOW EXCESSIVE BUILDUP OF OIL AND GREASE).
2. USE OFFSITE REPAIR SHOPS WHENEVER POSSIBLE; IF ONSITE REPAIRS ARE NECESSARY, USE A DESIGNATED AREA SURROUNDED BY EARTH BERMS. THE CONTRACTOR SHALL INSPECT THIS AREA WEEKLY AND AFTER EACH RAINSTORM EVENT TO ENSURE THAT THE EARTH BERMS ARE IN PLACE AND FUNCTIONING PROPERLY; ANY NON-FUNCTIONING BERMS SHALL BE REPAIRED IMMEDIATELY.
3. USE DRY CLEAN-UP METHODS FOR SPILLS AS MUCH AS POSSIBLE; USE ABSORBENT MATERIALS FOR SMALL SPILLS AND DISPOSE OF PROPERLY. USE A SECONDARY CONTAINMENT DURING FLUID CHANGES AND REPAIRS TO CATCH SPILLS.
4. SEGREGATE AND RECYCLE WASTES (INCLUDING BUT NOT LIMITED TO: USED OIL AND OIL FILTERS, BATTERIES, ETC.). KEEP HAZARDOUS WASTES SEPARATE FROM NON-HAZARDOUS WASTES; AFTER REPAIRS, ETC., PROMPTLY TRANSFER USED FLUIDS AND WASTES TO THEIR PROPER CONTAINMENT AREAS AND CONTAINERS.

SUMMARY OF QUANTITIES:			
ITEM	DESCRIPTION	PLAN QUANTITY TOTAL	UNIT
001	TEMPORARY FACILITIES	1	LS
002			
003			
004			
005			
006			
007			
008			
009			
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011			
012			
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024			
025			

REV	DATE	DESCRIPTION	DWN BY	ISS BY	APP BY

VALADAO, ET AL  
1820 PICKETT ROAD  
MCLELLAN, CA 95519  
APR 5 10:38 AM '02

**NOTES**

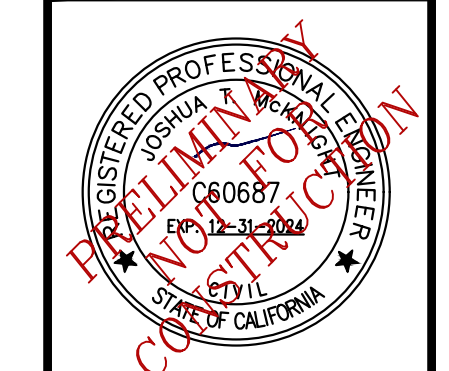
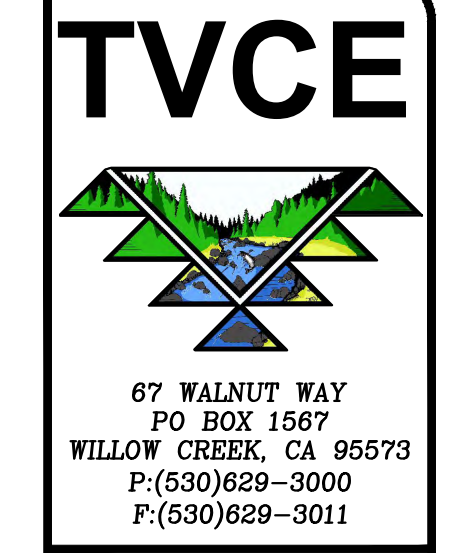
HUMBOLDT, CALIFORNIA

DATE OF ISSUE:  
FEB 2023

SCALE:  
AS SHOWN

PROJECT NO:  
873.01

DRAWING NO:  
**C01**



AGENT/SURVEYOR:  
MICHAEL J. O'HERN  
KELLY-O'HERN ASSOCIATES  
3240 MOORE AVENUE  
EUREKA, CA 95501  
(707)442-7283

OWNER:  
DANE VALADAO, ET AL  
1804 PICKETT ROAD  
MCKINLEYVILLE, CA 95519  
(707)834-6282

TOPOGRAPHIC AND BOUNDARY SURVEY PROVIDED BY:  
KELLY-O'HERN ASSOCIATES  
EUREKA, CALIFORNIA

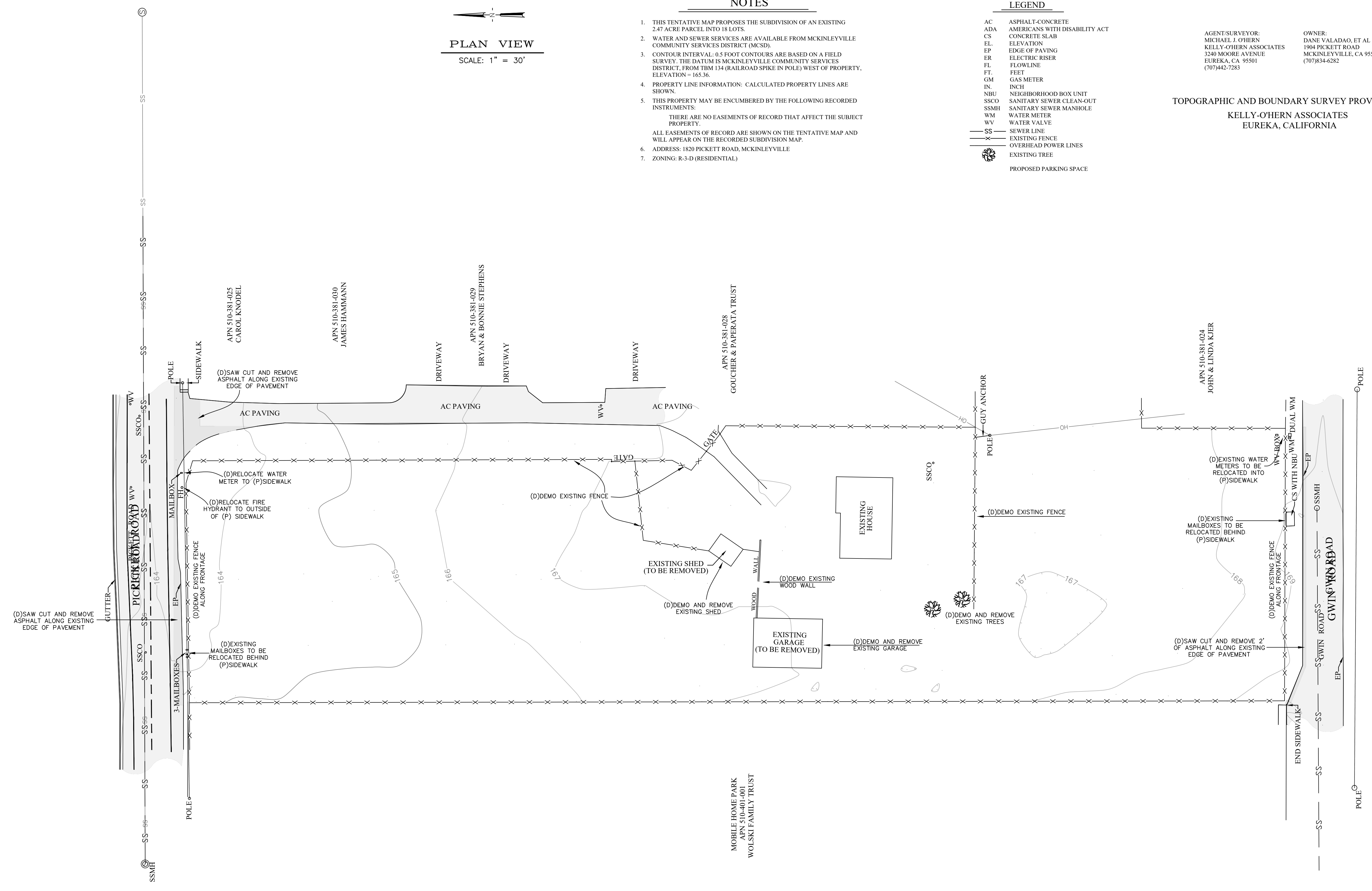
**NOTES**

- THIS TENTATIVE MAP PROPOSES THE SUBDIVISION OF AN EXISTING 2.47 ACRE PARCEL INTO 18 LOTS.
- WATER AND SEWER SERVICES ARE AVAILABLE FROM MCKINLEYVILLE COMMUNITY SERVICES DISTRICT (MCS D).
- CONTOUR INTERVAL: 0.5 FOOT CONTOURS ARE BASED ON A FIELD SURVEY. THE DATUM IS MCKINLEYVILLE COMMUNITY SERVICES DISTRICT, FROM TBM 134 (RAILROAD SPIKE IN POLE) WEST OF PROPERTY, ELEVATION = 165.36.
- PROPERTY LINE INFORMATION: CALCULATED PROPERTY LINES ARE SHOWN.
- THIS PROPERTY MAY BE ENCUMBERED BY THE FOLLOWING RECORDED INSTRUMENTS:  
THERE ARE NO EASEMENTS OF RECORD THAT AFFECT THE SUBJECT PROPERTY.  
ALL EASEMENTS OF RECORD ARE SHOWN ON THE TENTATIVE MAP AND WILL APPEAR ON THE RECORDED SUBDIVISION MAP.
- ADDRESS: 1820 PICKETT ROAD, MCKINLEYVILLE
- ZONING: R-3-D (RESIDENTIAL)

**LEGEND**

- AC ASPHALT-CONCRETE
- ADA AMERICANS WITH DISABILITY ACT
- CS CONCRETE SLAB
- EL ELEVATION
- EP EDGE OF PAVING
- ER ELECTRIC RISER
- FL FLOWLINE
- FT FEET
- GM GAS METER
- IN INCH
- NBU NEIGHBORHOOD BOX UNIT
- SSCO SANITARY SEWER CLEAN-OUT
- SSMH SANITARY SEWER MANHOLE
- WM WATER METER
- WV WATER VALVE
- SS SEWER LINE
- X EXISTING FENCE
- OVERHEAD POWER LINES
- EXISTING TREE
- PROPOSED PARKING SPACE

**PLAN VIEW**  
SCALE: 1" = 30'



REV	DATE	DESCRIPTION	CHK BY	APP BY

**EXISTING CONDITIONS**

VALADAO, ET AL  
1804 PICKETT ROAD  
MCKINLEYVILLE, CA 95519  
APN 510-381-021

HUMBOLDT, CALIFORNIA

DATE OF ISSUE:  
FEB 2023

SCALE:  
1" = 30'

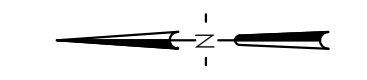
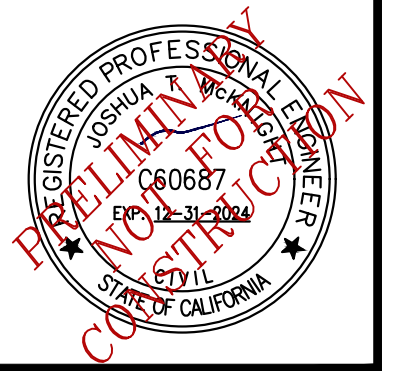
PROJECT NO:  
873.01

DRAWING NO:  
**C2.0**

**TVCE**

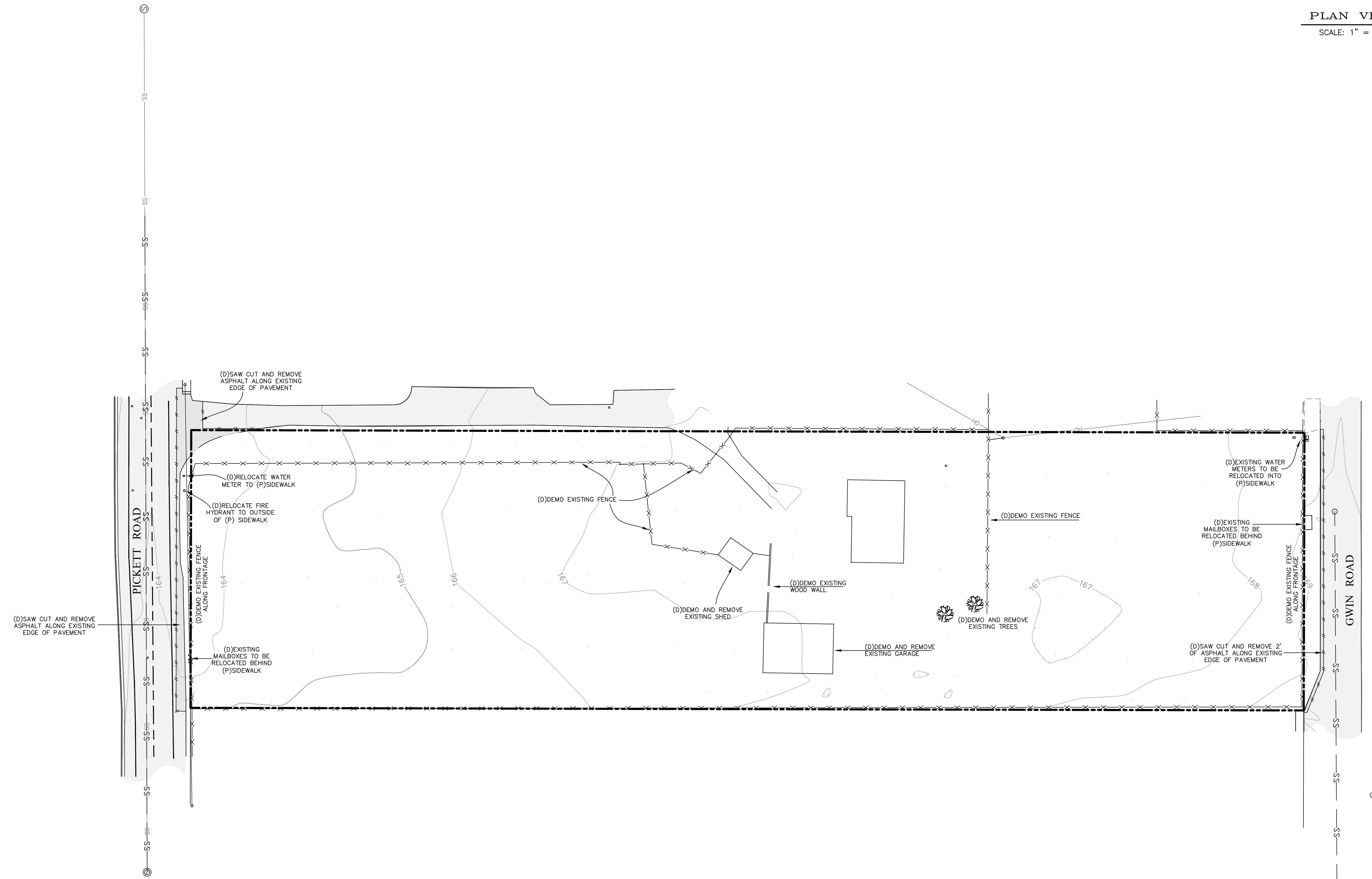


67 WALNUT WAY  
PO BOX 1587  
WILLOW CREEK, CA 95573  
P:(530)629-3000  
F:(530)629-3011



PLAN VIEW

SCALE: 1" = 30'



REV	DATE	DESCRIPTION	DWN BY	ISS BY	CHK BY	APP BY

VALADAO, ET AL  
1820 PICKETT ROAD  
MCLELLAN, CA 95519  
APN 510-381-021

**DEMOLITION PLAN**

HUMBOLDT, CALIFORNIA

DATE OF ISSUE:  
FEB 2023

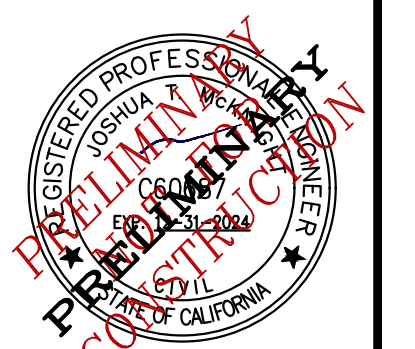
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1" = 30'

PROJECT NO:  
873.01

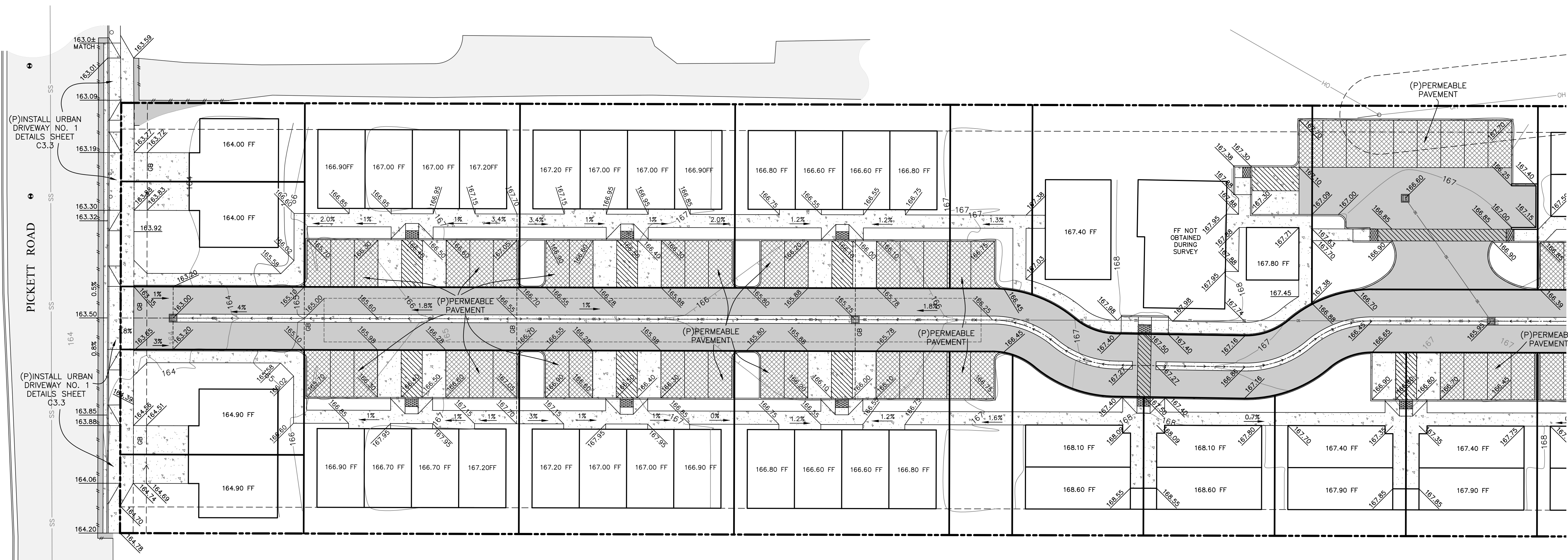
DRAWING NO:  
**C2.1**



67 WALNUT WAY  
PO BOX 1587  
WILLOW CREEK, CA 95573  
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F:(530)629-3011



REV	DATE	DESCRIPTION	DWN BY	CHK BY	APP BY
1	12/12/23	REVISED LOT DIMS PER AGENCY REVIEW	NRG	EEK	JTM
2			NRG	EEK	JTM

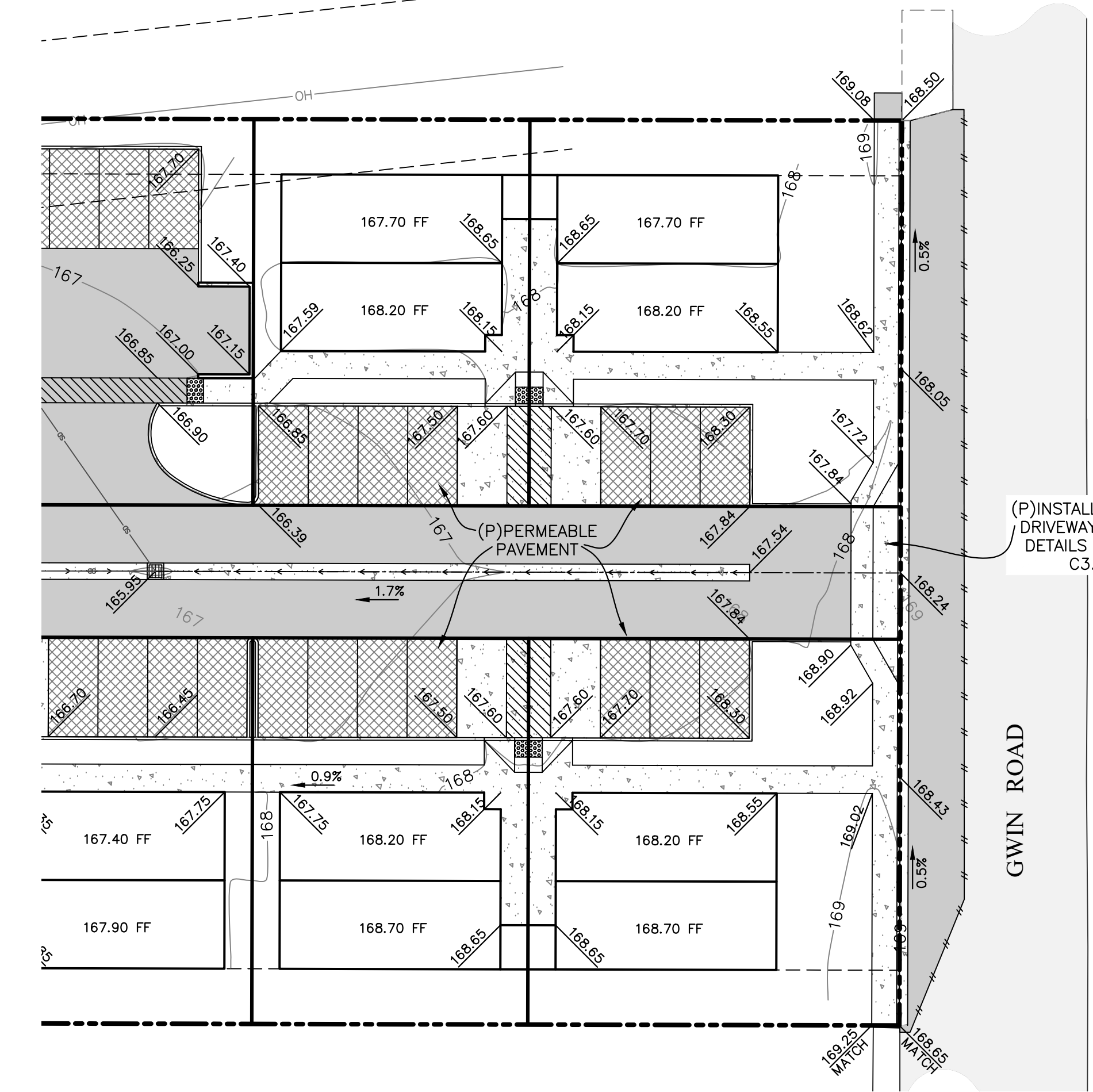


**EARTHWORK QUANTITIES:**

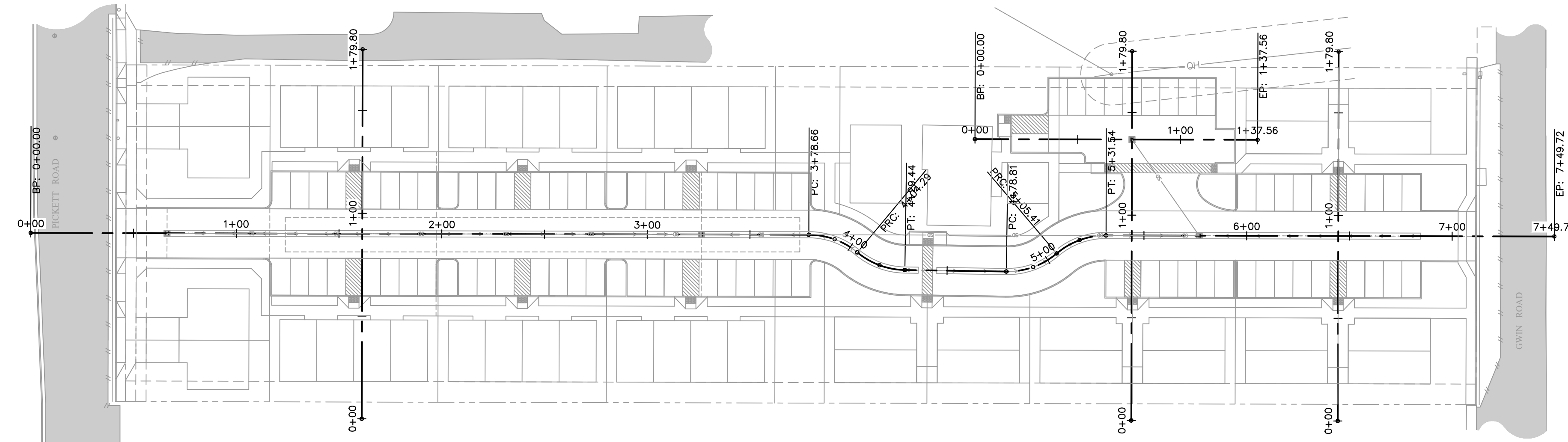
DEGRUB 12" OF TOPSOIL ACROSS SITE  
CUT (CY): ±4850 (TOPSOIL DEGRUB)  
FINISHED SURFACE POST DEGRUB  
FILL (CY): ±4320

NOTE:  
CUT AND FILL QUANTITIES ONSITE TO BE PERMANENT

**PLAN VIEW**  
SCALE: 1" = 20'



**ALIGNMENT VIEW**  
SCALE: 1" = 40'



VALADAO, ET AL  
1820 PICKETT ROAD  
MCLELLANVILLE, CA 95519  
APN 510-381-021

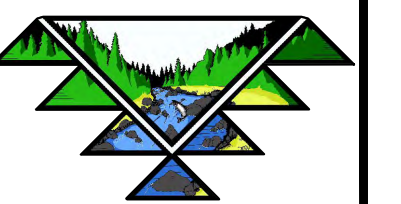
**GRADING PLAN**  
HUMBOLDT, CALIFORNIA

DATE OF ISSUE:  
FEB 2023

SCALE:  
1" = 30'

PROJECT NO:  
873.01

DRAWING NO:  
**C3.0**



67 WALNUT WAY  
 PO BOX 1587  
 WILLOW CREEK, CA 95573  
 P:(530)629-3000  
 F:(530)629-3011



REV	DATE	DESCRIPTION	DESIGNED BY	CHECKED BY	APP. BY

VALADAO, ET AL  
 1820 TICKET ROAD  
 MCLELLANVILLE, CA 95519  
 APN 510-381-021

**SECTIONS**  
 HUMBOLDT, CALIFORNIA

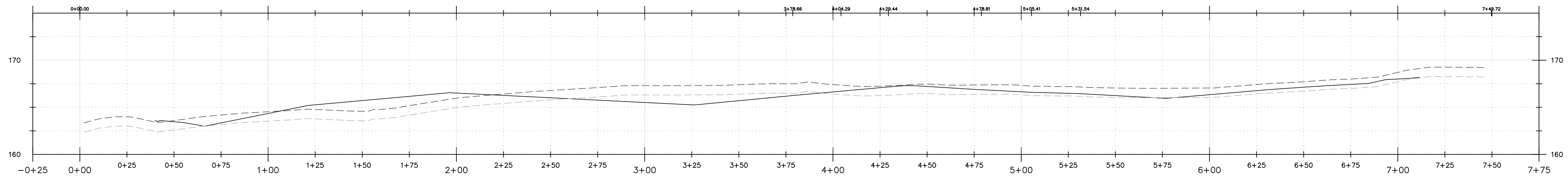
DATE OF ISSUE:  
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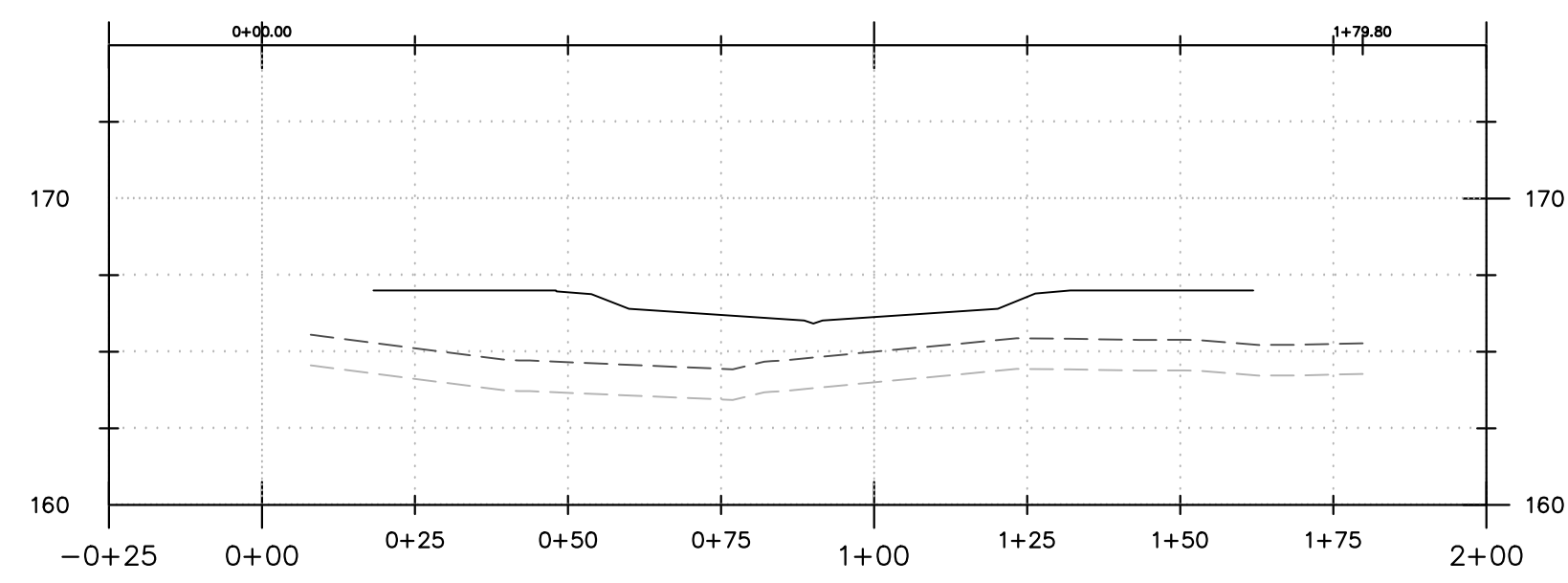
PROJECT NO:  
 873.01

DRAWING NO:  
**C3.1**

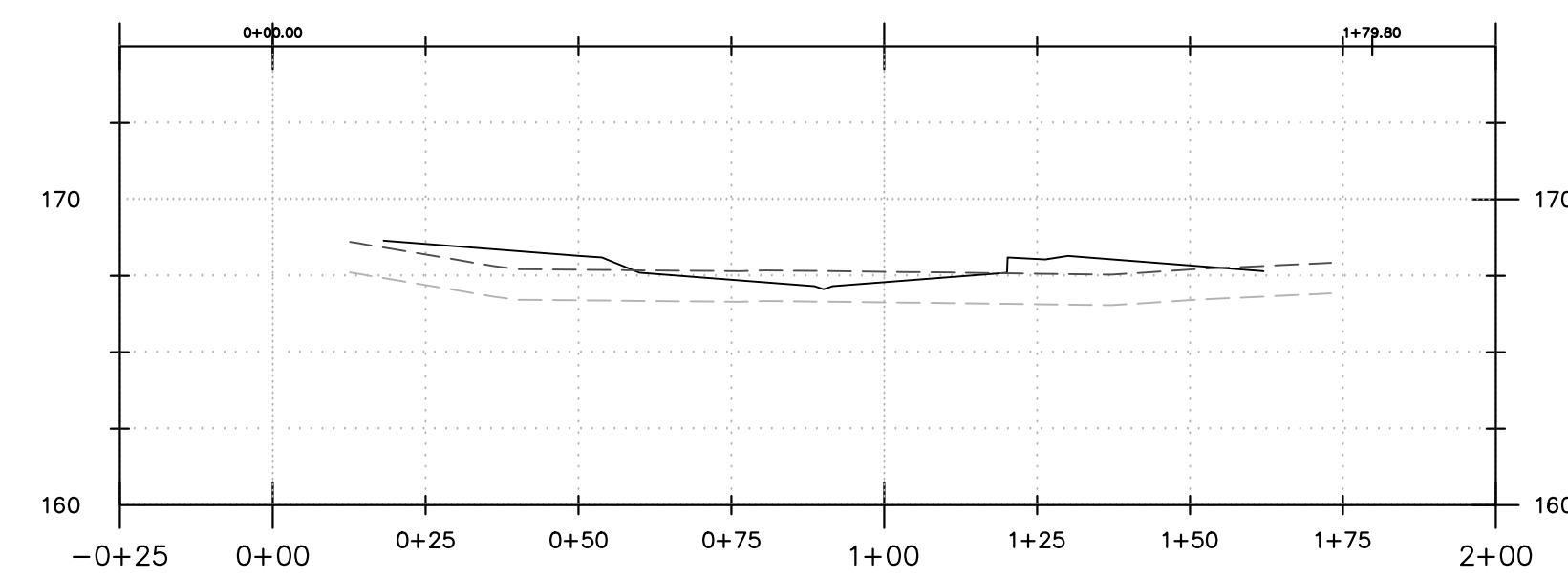
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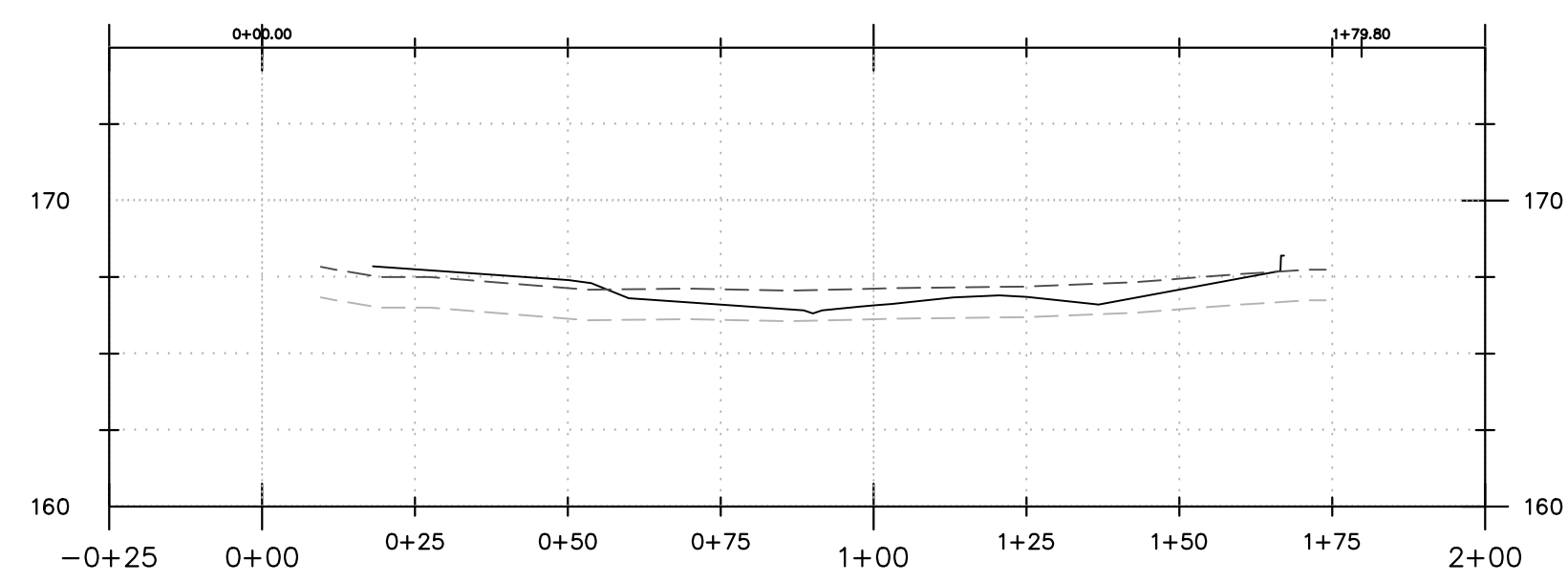
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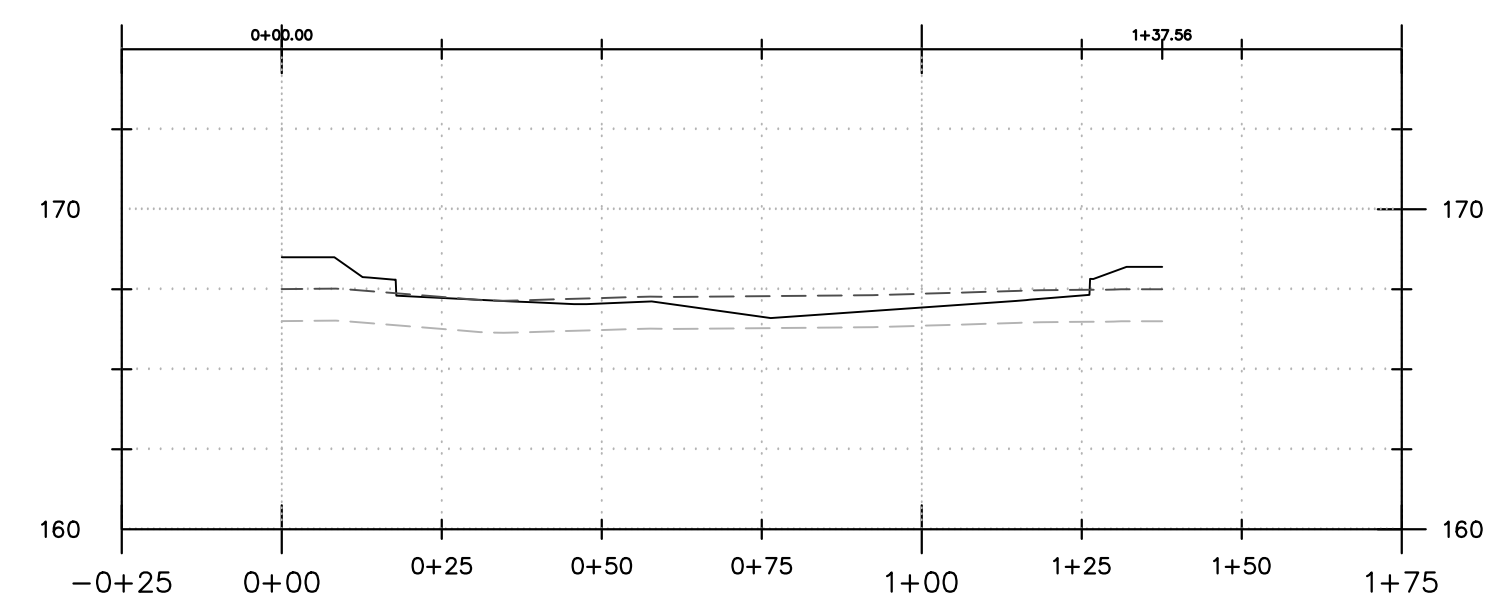
SOUTH CROSS SECTION



AUXILLARY PARKING



TRASH ENCLOSURE



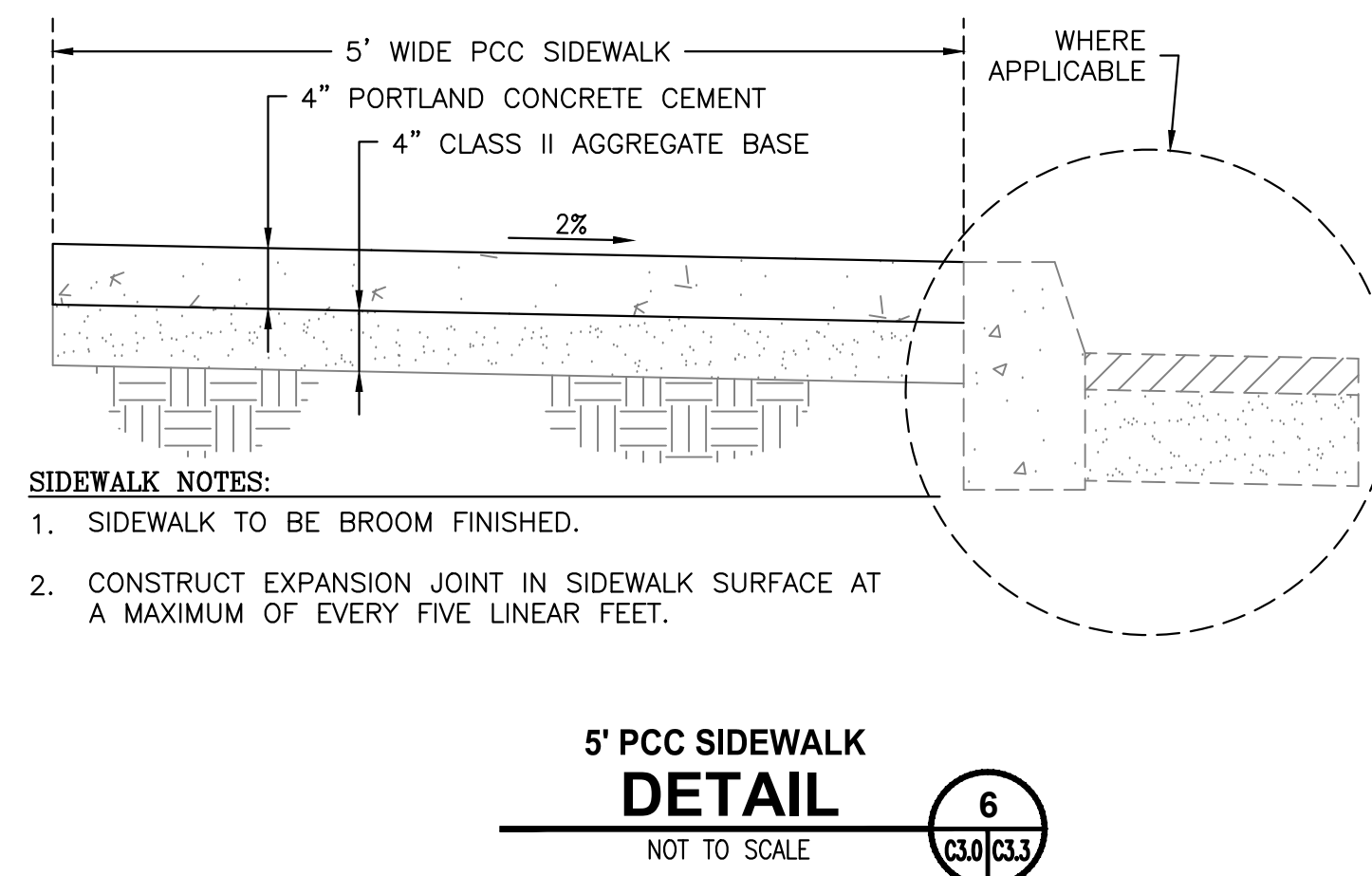
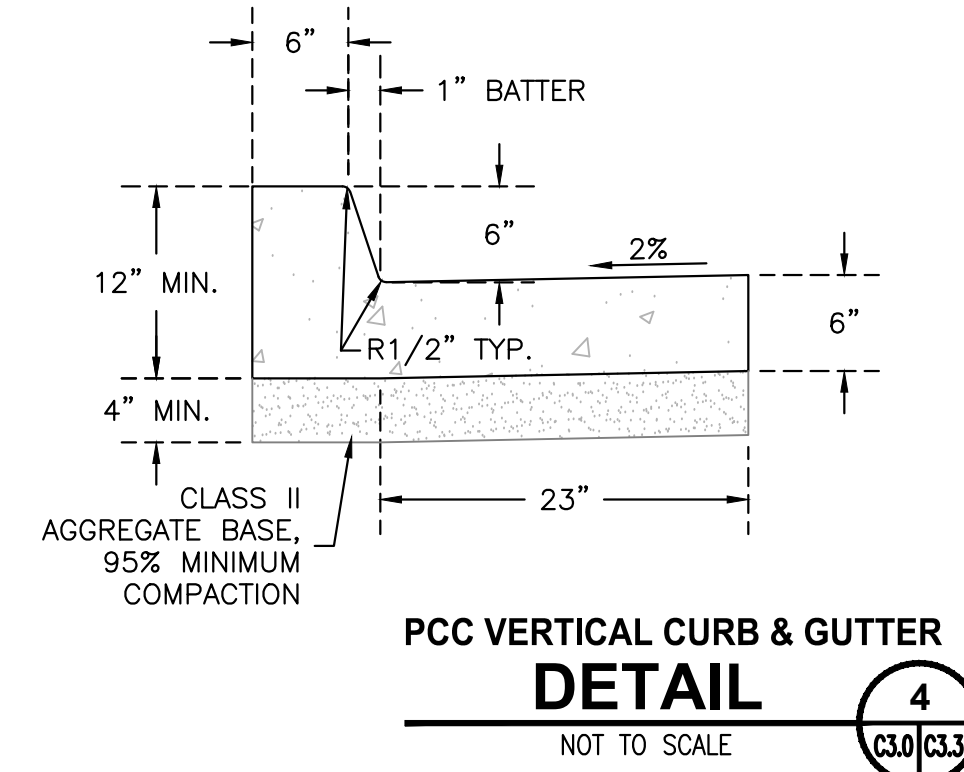
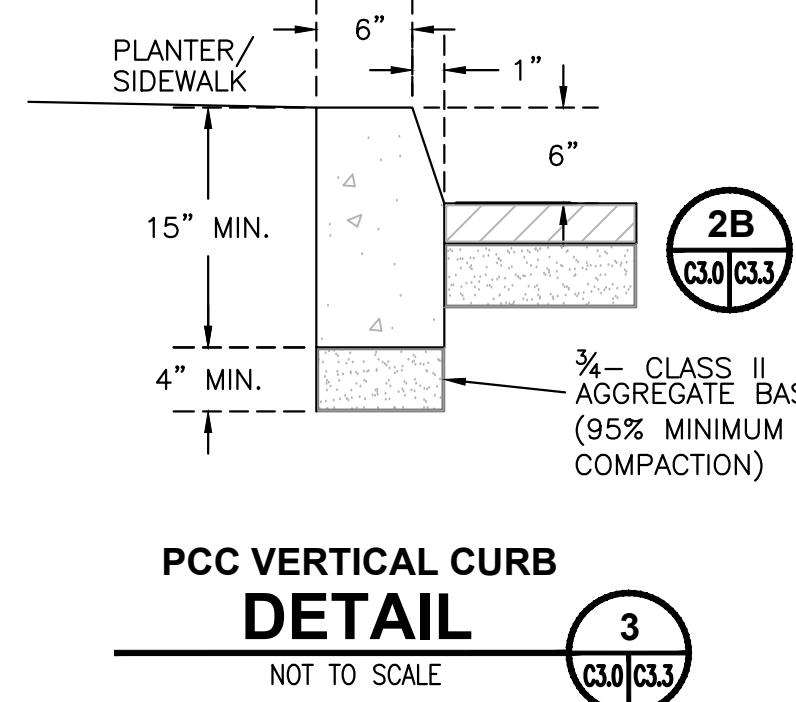
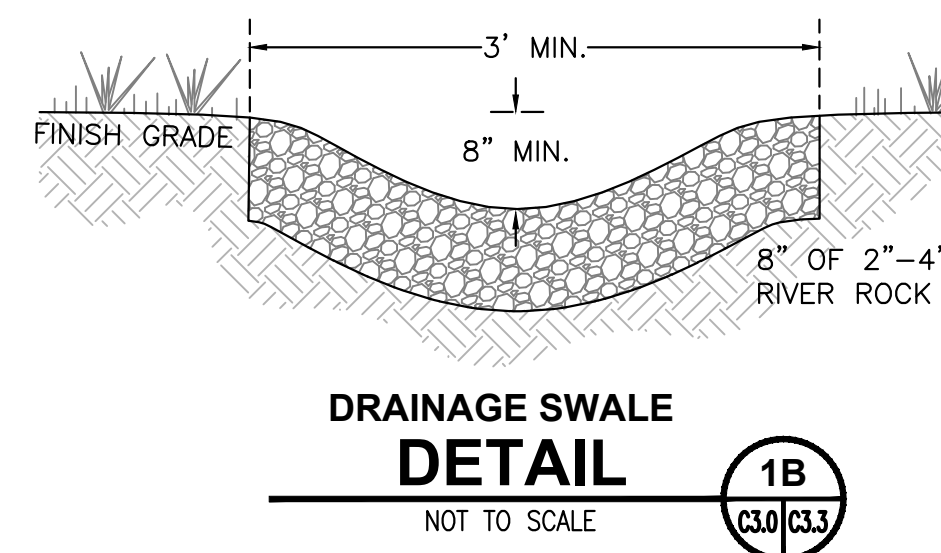
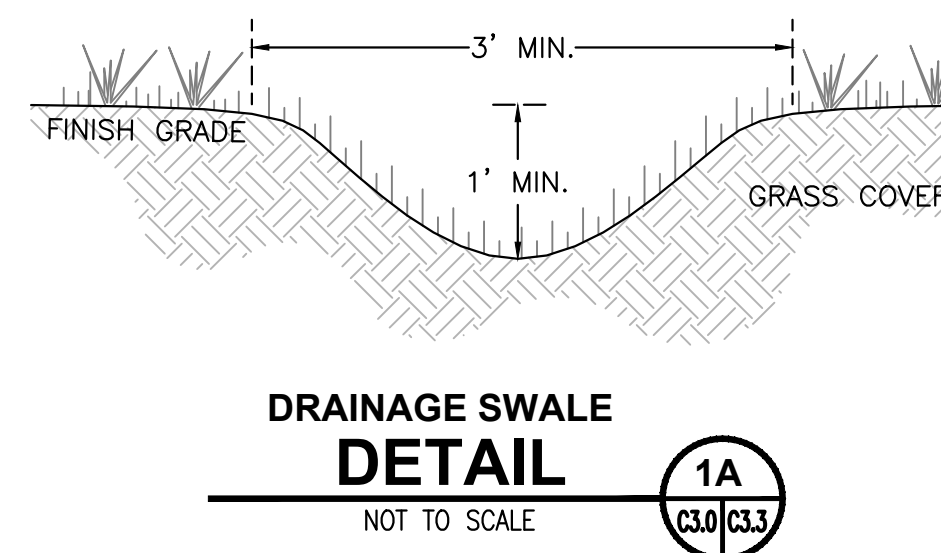
**GRADING NOTES:**

- ALL EARTHWORK, INCLUDING BUT NOT LIMITED TO, SITE CLEARING, GRUBBING, STRIPPING, AND GRADING WILL BE CONDUCTED DURING DRY WEATHER CONDITIONS. (TYPICALLY APRIL 15 TO OCTOBER 15)
- ANY UNDOCUMENTED FILL SOILS, FINE-GRAINED RESIDUAL SOILS, AND ANY OTHER DEBRIS ENCOUNTERED AT OR BELOW THE EXISTING GROUND SURFACE SHALL BE REMOVED AT THE LOCATIONS RECEIVING ANY POTENTIAL FILLS.
- THE SITE SHOULD BE GRADED TO PROVIDE ADEQUATE DRAINAGE SUCH THAT NO WATER IS ALLOWED TO POND ANYWHERE ON THE SITE OR MIGRATE BENEATH FUTURE DEVELOPMENTS.
- ALL FILL MATERIAL SHALL BE PLACED IN HORIZONTAL LIFTS NOT TO EXCEED EIGHT INCHES (8") IN DEPTH AND SHALL BE COMPACTED MECHANICALLY.
- ALL FILL MATERIAL SHALL BE FREE OF ORGANICS, ROCKS LARGER THAN 3", WOODY DEBRIS, ROOTS, AND INORGANIC MATERIAL.
- ALL FILL MATERIAL SHALL HAVE A UNIFORM MOISTURE CONTENT AT OR NEAR OPTIMUM MOISTURE CONTENT AS DETERMINED BY TESTING AND APPROVED BY THE ENGINEER.
- NON-STRUCTURAL FILL SHALL BE COMPACTED MECHANICALLY TO A FIRM UNYIELDING SURFACE AS APPROVED BY THE ENGINEER.
- COMPACTION TESTING WILL BE DETERMINED AT THE ENGINEER'S DISCRETION.
- IT IS RECOMMENDED THAT ANY MATERIAL PROPOSED FOR STRUCTURAL FILL MATERIAL TO SUPPORT ANY FOUNDATIONS OR STRUCTURAL BUILDING ELEMENT AND ASSOCIATED UTILITIES BE COMPACTED AS OUTLINED IN THE SOILS REPORT.
- ALL FILL SLOPES SHALL BE TO A SMOOTH AND EVEN GRADE, SHALL BE SURFACE TRACKWALKED, AND FINAL GRADES NOT TO EXCEED 2:1 (h:v), WITHOUT ENGINEER APPROVAL.
- SUFFICIENT TESTING AND INSPECTION SHOULD BE PERFORMED TO MONITOR THE SUITABILITY OF FILL MATERIALS AND ASSURE COMPLIANCE WITH THE RECOMMENDED COMPACTION STANDARDS.

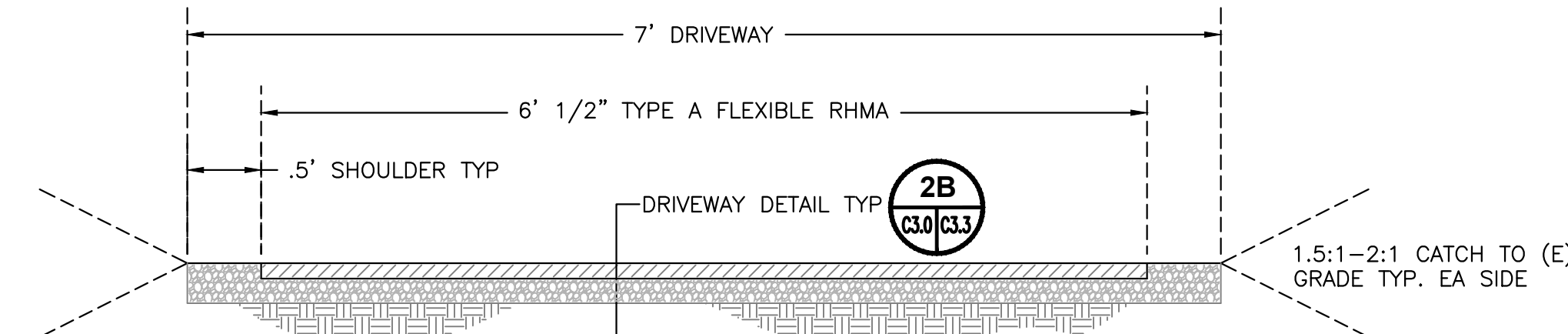
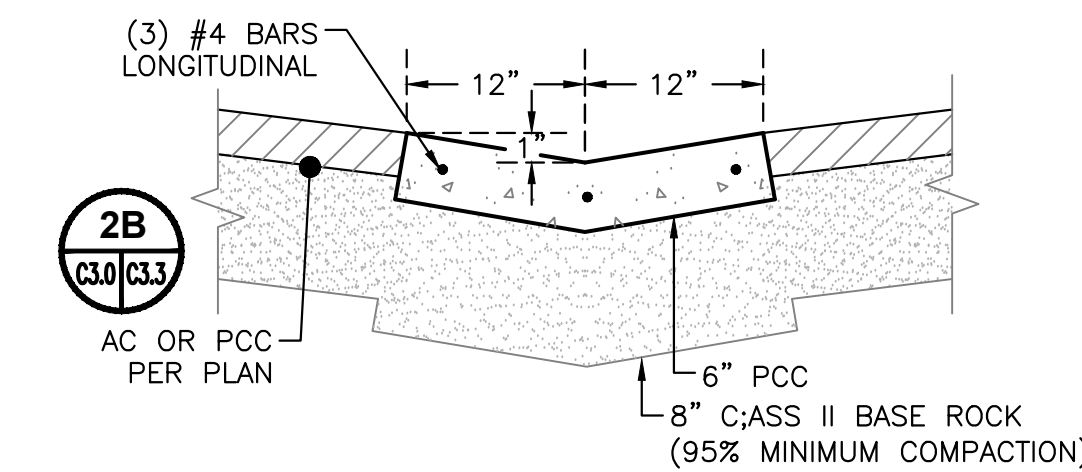
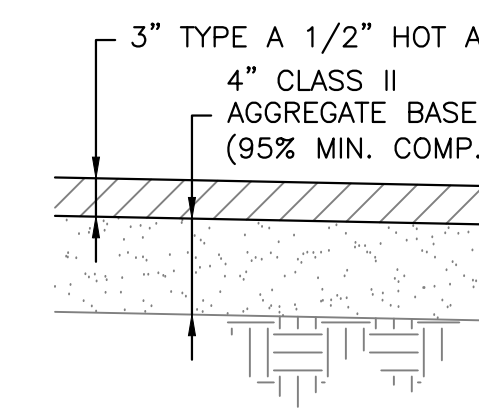
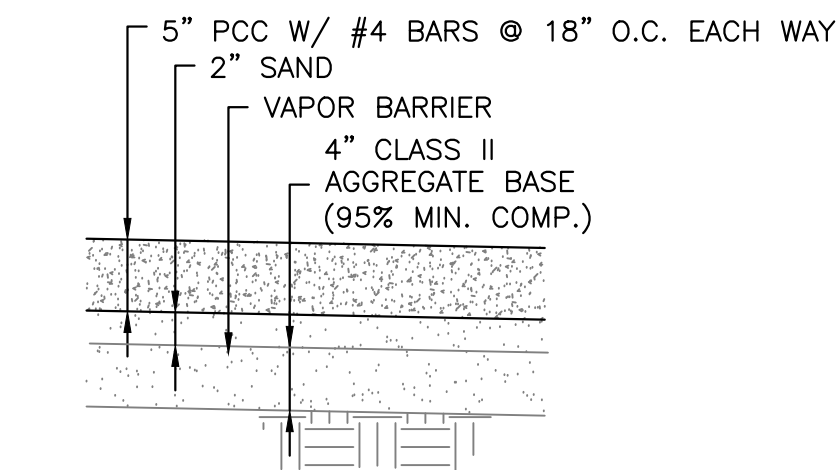
**CLEARING, GRUBBING, & DEMOLITION NOTES:**

- TREES SCHEDULED TO BE REMOVED SHALL BE REMOVED COMPLETELY INCLUDING STUMPS, ROOTS, BRANCHES, WOODY DEBRIS, BARK, AND FLESH. TREES SHALL BE REMOVED FROM THE SITE AND DEPOSITED IN LOCATIONS DESIGNATED BY THE OWNER.
- VEGETATION AND WOODY DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A MANNER CONSISTENT WITH APPLICABLE LAWS AND REGULATIONS.
- ALL GENERATED AND ACCUMULATED CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A MANNER CONSISTENT WITH APPLICABLE LAWS AND REGULATIONS.
- ALL AREAS WITH GENERATED VOIDS FROM DEMOLITION ACTIVITIES SHALL BE BACKFILLED WITH NATIVE SOIL TO FINISH GRADE IN 1' MAXIMUM VERTICAL LIFTS SUFFICIENTLY COMPACTED TO ELIMINATE SUBSIDENCE.
- DUST CONTROL SHALL BE MAINTAINED DURING DEMOLITION PRACTICES.
- TRACKING OF MATERIAL FROM THE SITE ONTO EXISTING ROADWAYS WILL NOT BE TOLERATED. TEMPORARY CONSTRUCTION SITE ENTRANCES SHOULD BE BUILT AT POINTS OF INTERSECTION TO EXISTING ROADWAYS AND PRACTICES SHOULD BE IMPLEMENTED TO REMOVE CONSTRUCTION MATTER FROM VEHICLES AND EQUIPMENT PRIOR TO LEAVING THE CONSTRUCTION SITE.
- EROSION CONTROL MEASURES SHALL BE IMPLEMENTED FOR THE SITE AS SOON AS PRACTICAL AND SHALL BE IN PLACE PRIOR TO EXECUTION OF MAJOR DEMOLITION OPERATIONS.

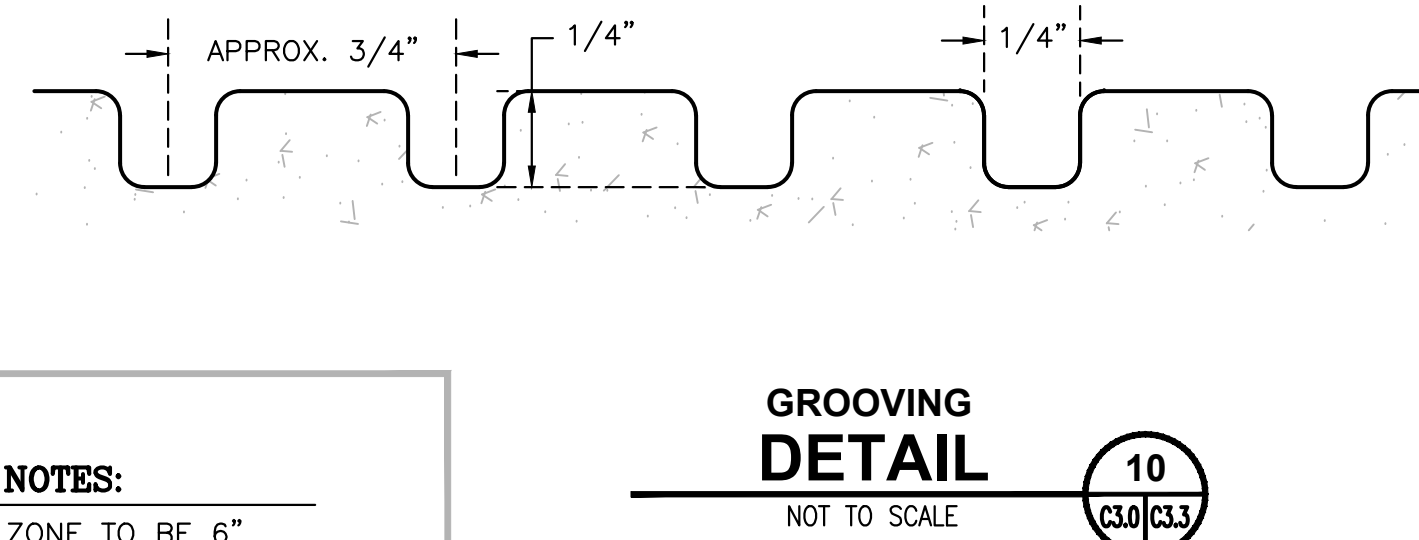
FILL PLACEMENT LOCATION	COMPACTION RECOMMENDATIONS (ASTM D 1557-MODIFIED PROCTOR)	MOISTURE CONTENT (PERCENT OPTIMUM)
STRUCTURAL FILL SUPPORTING FOOTING	90%	-1 TO +3 PERCENT
STRUCTURAL FILL SUPPORTING SLABS-ON-GRADE	90%	-1 TO +3 PERCENT
STRUCTURAL FILL PLACED WITHIN 3 FEET BEYOND THE PERIMETER OF THE BUILDING PAD	90%	-1 TO +3 PERCENT
UTILITY TRENCHES WITHIN BUILDING AND ANY PAVEMENT AREAS	95%	-1 TO +3 PERCENT
UTILITY TRENCHES BENEATH LANDSCAPE AND GRASS AREAS	90%	-1 TO +3 PERCENT



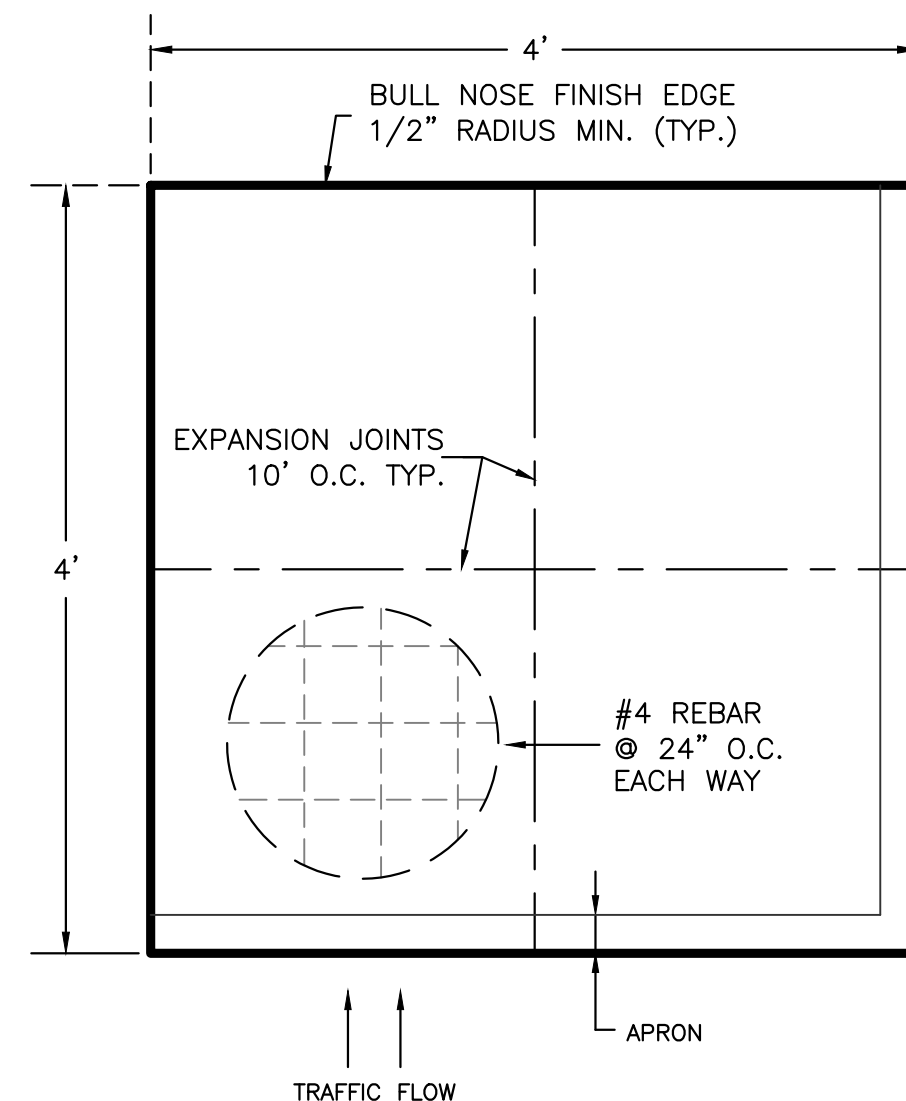
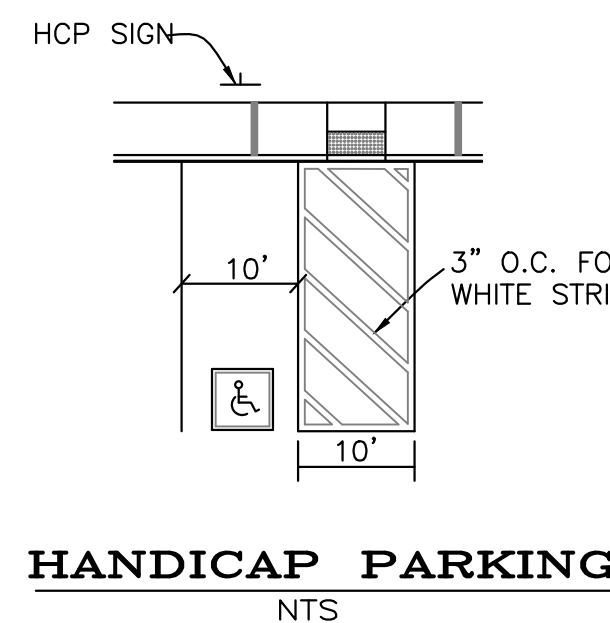
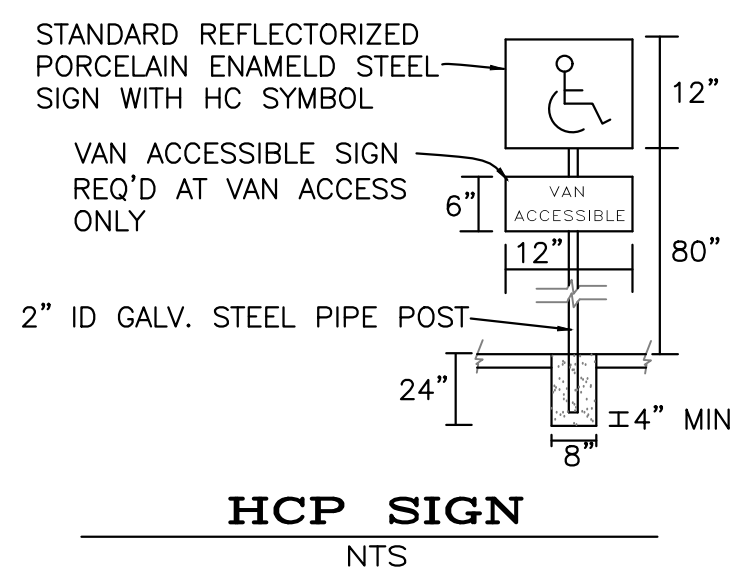
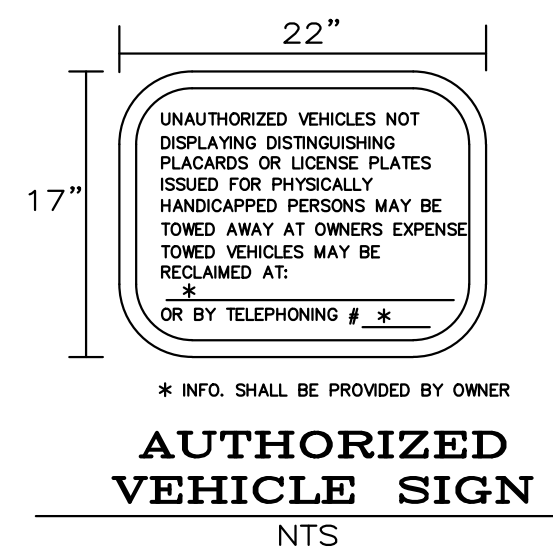
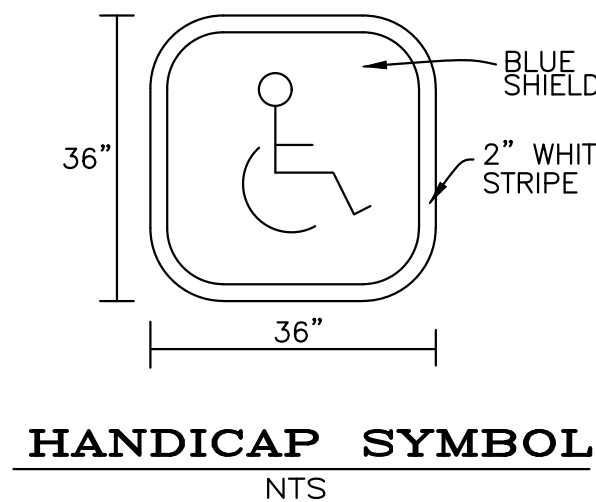
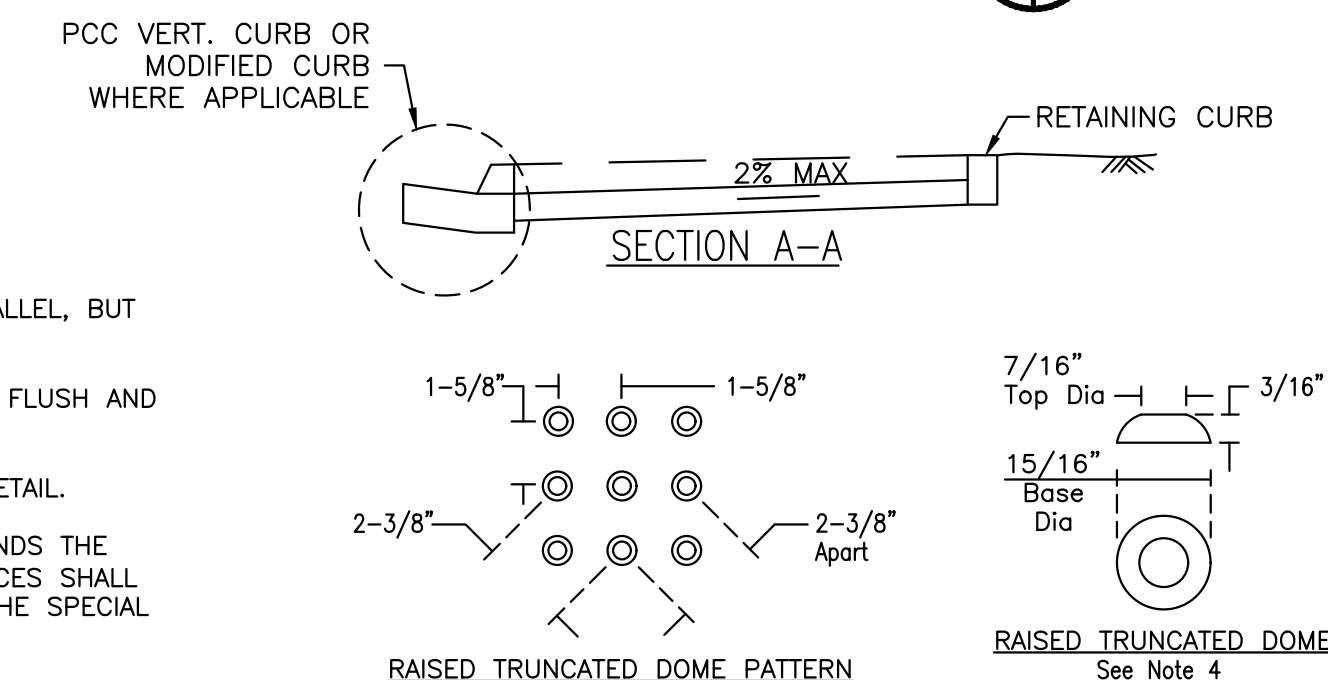
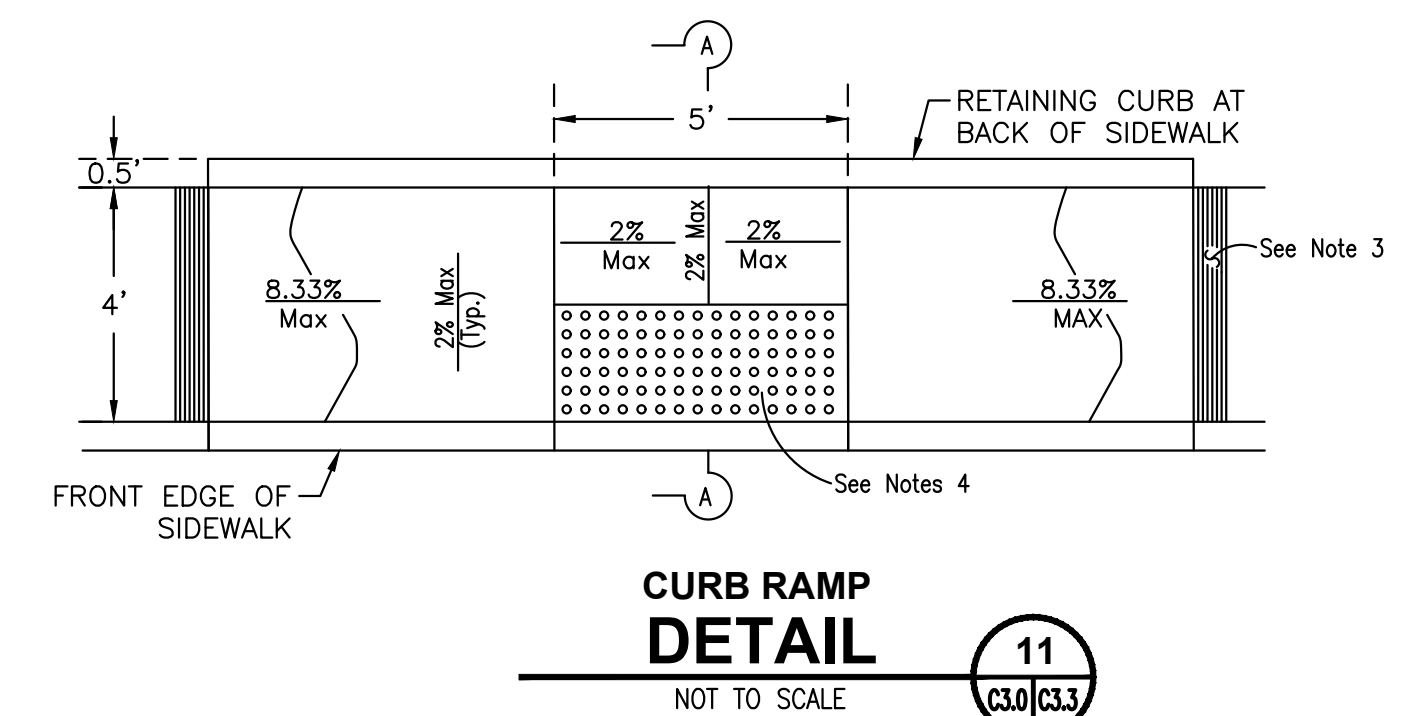
- SIDEWALK NOTES:**
- SIDEWALK TO BE BROOM FINISHED.
  - CONSTRUCT EXPANSION JOINT IN SIDEWALK SURFACE AT A MAXIMUM OF EVERY FIVE LINEAR FEET.



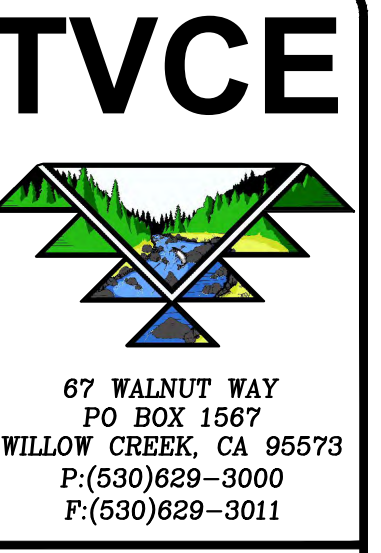
- DRIVEWAY NOTES:**
- PAVEMENT TO BE FLEXIBLE RUBBERIZED HOT MIX ASPHALT (RHMA-G) PER CALTRANS STD SPECS SECTION 39.
  - AGGREGATE BASE TO BE 3/4" CLASS 2 PER CALTRANS STD SPECS SECTION 26.



- CURB RAMP NOTES:**
- IF LOCATED ON A CURVE, THE SIDES OF THE RAMP NEED NOT BE PARALLEL, BUT THE MINIMUM WIDTH OF THE RAMP SHALL BE 4'.
  - TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
  - THE RAMP SHALL HAVE A 1' WIDE GROOVED BORDER. SEE GROOVING DETAIL.
  - CURB RAMPS SHALL HAVE A DETECTABLE WARNING SURFACE THAT EXTENDS THE FULL WIDTH AND 3' DEPTH OF THE RAMP. DETECTABLE WARNING SURFACES SHALL CONFORM TO THE DETAILS ON THIS PLAN AND THE REQUIREMENTS IN THE SPECIAL PROVISIONS.
  - UTILITY PULL BOXES, MANHOLES, VAULTS AND ALL OTHER UTILITY FACILITIES WITHIN THE BOUNDARIES OF THE CURB RAMP WILL BE RELOCATED OR ADJUSTED TO GRADE BY THE UTILITY OWNER PRIOR TO, OR IN CONJUNCTION WITH, CURB RAMP CONSTRUCTION.
  - MAXIMUM SLOPES OF ADJOINING GUTTERS, THE ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP AND CONTINUOUS PASSAGE TO THE CURB RAMP SHALL NOT EXCEED 5% WITHIN 4' OF THE TOP OR BOTTOM OF THE CURB RAMP.



- ADA CONCRETE PARKING NOTES:**
- PARKING & LOAD/UNLOAD ZONE TO BE 6" THICK P.C.C. (3,000 PSI MIN.). CONTRACTOR TO SUBMIT MIX DESIGN AND RECEIVE ACCEPTANCE APPROVAL PRIOR TO PLACEMENT.
  - PLACE 6" MIN. THICK CLASS 2, 3/4" A.B. UNDER PAD. 95% MIN. COMPACTION.
  - REBAR TO BE EMBEDDED 3" MIN. FROM EDGES.
  - CONCRETE TO BE BROOM FINISHED.
  - CONSTRUCT EXPANSION JOINTS IN CONCRETE SURFACE AS INDICATED.
  - EXPANSION JOINTS TO BE WET SET OR SAWCUT.
  - FILL EXPANSION JOINT WITH FLEXIBLE EPOXY SEALANT.



REV	DATE	DESCRIPTION	APP'D BY

VALADAO, ET AL  
1800 PICKET ROAD  
MC NAY, CA 95119  
APR 5 10:58 AM '21  
**GRADING DETAILS 1**  
HUMBOLDT, CALIFORNIA

DATE OF ISSUE:	FEB 2023
SCALE:	AS SHOWN
PROJECT NO:	873.01
DRAWING NO:	<b>C03.2</b>



67 WALNUT WAY  
PO BOX 1587  
WILLOW CREEK, CA 95573  
P:(530)629-3000  
F:(530)629-3011



REV	DATE	DESCRIPTION	APP'D BY

SEE SHEET 3 FOR NOTES

VARIABLES	
X	3'
W (RESIDENTIAL)	18' RECOMMENDED / 10' MIN. / 20' MAX.
W (NON-RESIDENTIAL)	24' RECOMMENDED / 12' MIN. / 20' MAX.
PL	1.67' MINIMUM (SEE NOTE 1)

**PLEASE NOTE!**  
30° MAXIMUM Direction Change

**3D PERSPECTIVE**

**SECTION A-A**

**SECTION B-B**

**SECTION C-C**

**PLAN**

**PROFILE**

NOTE: FIGURES HEREON ARE NOT DRAWN TO SCALE, UNLESS OTHERWISE NOTED.

**COUNTY OF HUMBOLDT**  
DEPARTMENT OF PUBLIC WORKS  
1106 SECOND STREET • EUREKA • CA • 95501  
TEL (707) 445-7377 • FAX (707) 445-7409  
F:\AUTOCAD PROJECTS\STANDARD PLANS\STD-PLAN-URBAN DRY NO LONG

**URBAN DRIVEWAY No. 1** STD DWG  
ISSUED: 10/23/2015 UPDATE: 10/02/2019  
SHT 1 OF 3

SEE SHEET 3 FOR NOTES

DRIVEWAY LENGTH AND GARAGE F.F. ELEVATION TABLE			
- FOR A 2% MIN. & 16% MAX. DRIVEWAY GRADE -			
DISTANCE FROM CURB LINE TO GARAGE	DRIVEWAY LENGTH	REFERENCE POINT AT FLOWLINE OF CURB TO GARAGE FINISH FLOOR ELEVATION REFERENCE POINT	MINIMUM
29'	20'	1.08'	3.60'
30'	21'	1.18'	4.04'
31'	22'	1.28'	4.20'
32'	23'	1.38'	4.36'
33'	24'	1.48'	4.52'
34'	25'	1.58'	4.68'
35'	26'	1.68'	4.84'
36'	27'	1.78'	5.00'
37'	28'	1.88'	5.16'
38'	29'	1.98'	5.32'
39'	30'	2.08'	5.48'
40'	31'	2.18'	5.64'
41'	32'	2.28'	5.80'
42'	33'	2.38'	5.96'
43'	34'	2.48'	6.12'
44'	35'	2.58'	6.28'

FOR DISTANCES NOT SHOWN ADD 0.16' ELEVATION FOR EACH ADDITIONAL FOOT OF DRIVEWAY LENGTH

**PLAN**

**SECTION A-A**

**ELEVATION PROFILE**

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**COUNTY OF HUMBOLDT**  
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**URBAN DRIVEWAY No. 1** STD DWG  
ISSUED: 10/23/2015 UPDATE: 10/02/2019  
SHT 2 OF 3

**NOTES**

- DRIVEWAY MUST TRANSITION TO FULL HEIGHT OF CURB BEFORE NEXT DRIVEWAY.
- CONTIGUOUS DRIVEWAYS ARE NOT PERMITTED. IN CERTAIN INSTANCES, AND PRIOR TO CONSTRUCTION, THE DEPARTMENT MAY APPROVE CONTIGUOUS DRIVEWAYS.
- "TOP OF R" MUST BE LOCATED A MINIMUM OF 4" FROM THE PROPERTY LINE IN ORDER TO ACCOMMODATE A 4" WIDE SIDEWALK BEHIND THE DRIVEWAY APRON. THIS DISTANCE MAY NEED TO BE GREATER WHEN THE PROPERTY LINE DOES NOT INTERSECT THE SIDEWALK AT A 90° ANGLE.
- MAXIMUM DRIVEWAY GRADE IS 16%.
- UNDER SPECIAL SITE CONDITIONS, WHEN APPROVED BY THIS DEPARTMENT, DRIVEWAY GRADES MAY BE GREATER THAN 16%. AN ENGINEERED PROFILE IS REQUIRED TO ENSURE DERIVABILITY. PROFILE MUST BE PLOTTED AT 1"=2' HORIZONTAL & VERTICAL OR AT 1"=4' HORIZONTAL & VERTICAL. PROFILE MUST BE APPROVED BY THE DEPARTMENT PRIOR TO CONSTRUCTING GARAGE FOUNDATION AND SHALL ACCOMMODATE THE COUNTY DESIGN VEHICLE.
- NOTE: THE 1/4" INCH PER FOOT" RULE OF THUMB RESULTS IN A CROSS-SLOPE OF 2.1% WHICH EXCEEDS ADA MAXIMUM OF 2%.
- MUST MAINTAIN 20" MINIMUM SETBACK FROM BACK OF SIDEWALK AROUND DRIVEWAY APRON TO GARAGE DOOR. (SEE SHEET 2)
- REPAIR SHALL BE MADE BY REMOVING AND REPLACING THE ENTIRE UNIT BETWEEN SCORING LINES OR JOINTS.
- NON-RESIDENTIAL DRIVEWAY APRONS AND SIDEWALK REQUIRE REINFORCEMENT IN ALL AREAS SUBJECT TO VEHICLE LOADS. USE #3 REBAR @ 12" ON CENTER & EACH WAY OR #10 GAUGE 6" x 6" WIRE MESH.
- DRIVEWAYS MUST COMPLY WITH COUNTY WISBURY CODE FOR PLACEMENT OF STRUCTURES, FENCES, AND LANDSCAPING.
- WHEN AN OPENING FOR A DRIVEWAY OR ANY OTHER PURPOSE IS TO BE CONSTRUCTED THROUGH AN EXISTING PORTLAND CEMENT CONCRETE CURB, THE EXISTING CURB OR CURB AND CUTTER SHALL BE SAWCUT AT THE LIMITS OF WORK OR REMOVED TO THE NEAREST CONSTRUCTION JOINT(S) AND THE OPENING REPAIRED WITH STANDARD CURB AND DRIVEWAY. NO SAWCUTS ALLOWED ALONG THE FLOWLINE OF THE GUTTER.
- WHEN A PROPOSED SAWCUT LINE IS WITHIN 18" INCHES OF A SCORE LINE OR CONSTRUCTION JOINT, THE SAWCUT SHALL BE ALONG THE SCORE LINE OR CONSTRUCTION JOINT.

NOTE: FIGURES HEREON ARE NOT DRAWN TO SCALE, UNLESS OTHERWISE NOTED.

**COUNTY OF HUMBOLDT**  
DEPARTMENT OF PUBLIC WORKS  
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**URBAN DRIVEWAY No. 1** STD DWG  
ISSUED: 10/23/2015 UPDATE: 10/02/2019  
SHT 3 OF 3

VALADAO, ET AL  
1824 TICKET ROAD  
MCLELLAN, CA 95519  
APN 510-381-021

**GRADING DETAILS 2**

HUMBOLDT, CALIFORNIA

DATE OF ISSUE:  
FEB 2023

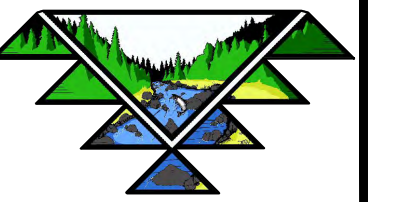
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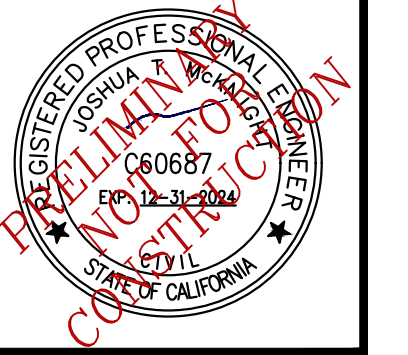
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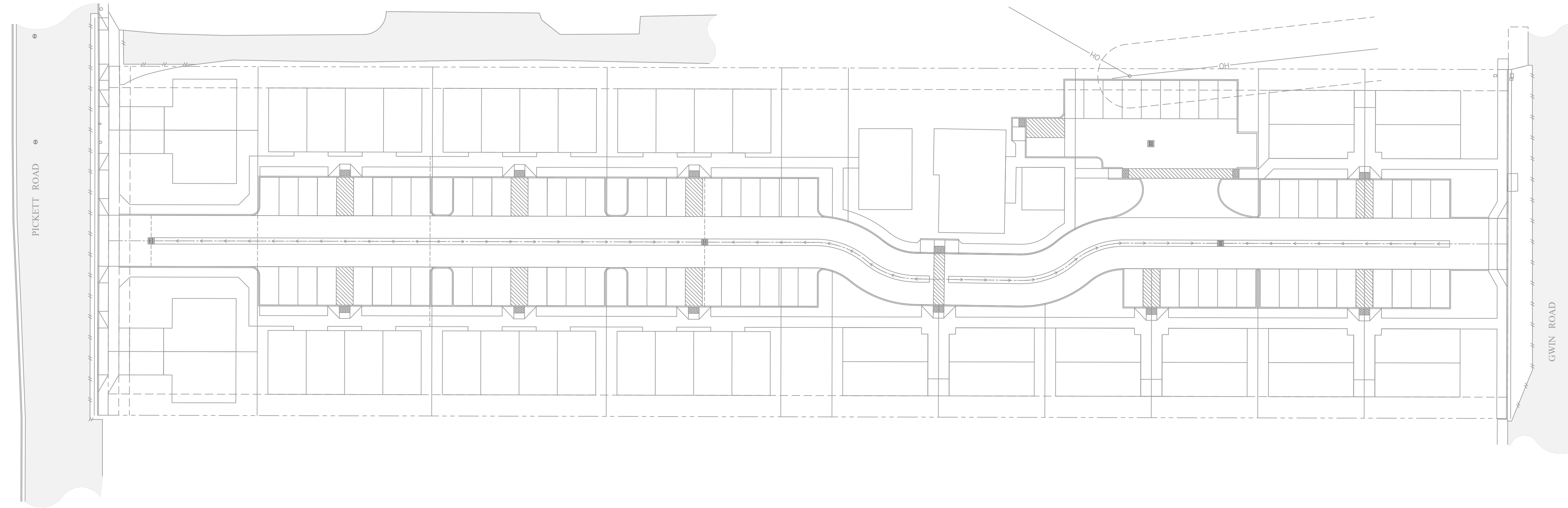
**TVCE**



67 WALNUT WAY  
 PO BOX 1587  
 WILLOW CREEK, CA 95573  
 P:(530)629-3000  
 F:(530)629-3011



PLAN VIEW  
 SCALE: 1" = 30'



REV	DATE	DESCRIPTION	DNW BY	DES BY	CHK BY	APP BY

VALADAO, ET AL  
 1820 PUCKETT ROAD  
 MCLELLAN, CA 95519  
 APN 510-381-021

**ELECTRIC AND TELECOM PLAN**

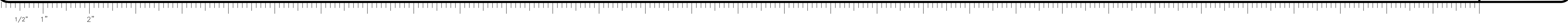
HUMBOLDT, CALIFORNIA

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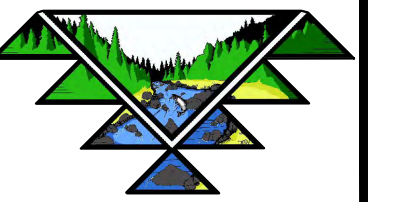
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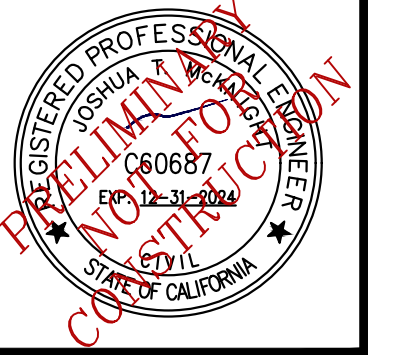
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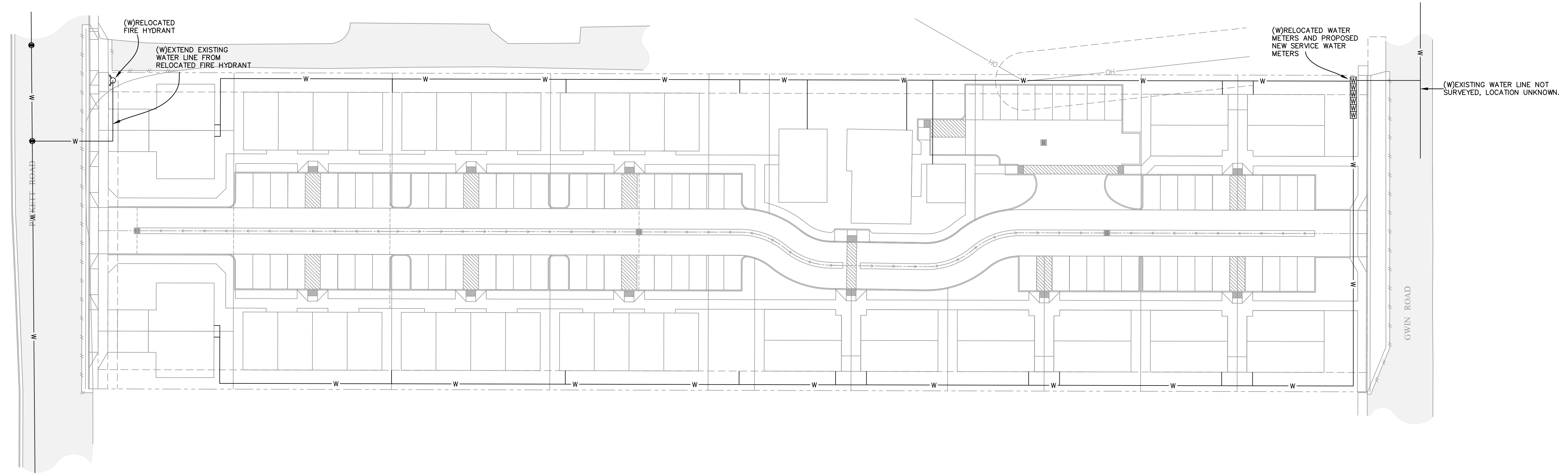
**TVCE**



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PLAN VIEW  
 SCALE: 1" = 30'



REV	DATE	DESCRIPTION	DWN BY	ISS BY	CHK BY	APP BY

VALADAO, ET AL  
 1800 TICKET ROAD  
 MCDEVITT, CA 95519  
 APN 510-381-021

**WATER PLAN**

HUMBOLDT, CALIFORNIA

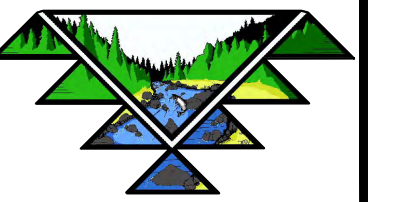
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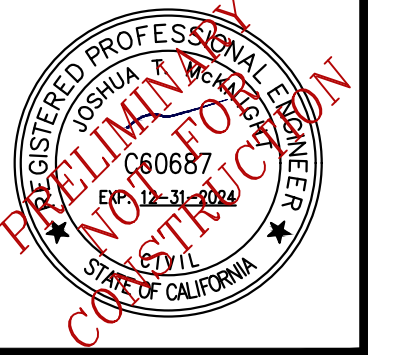
PROJECT NO:  
 873.01

DRAWING NO:  
**C4.1**

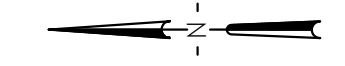
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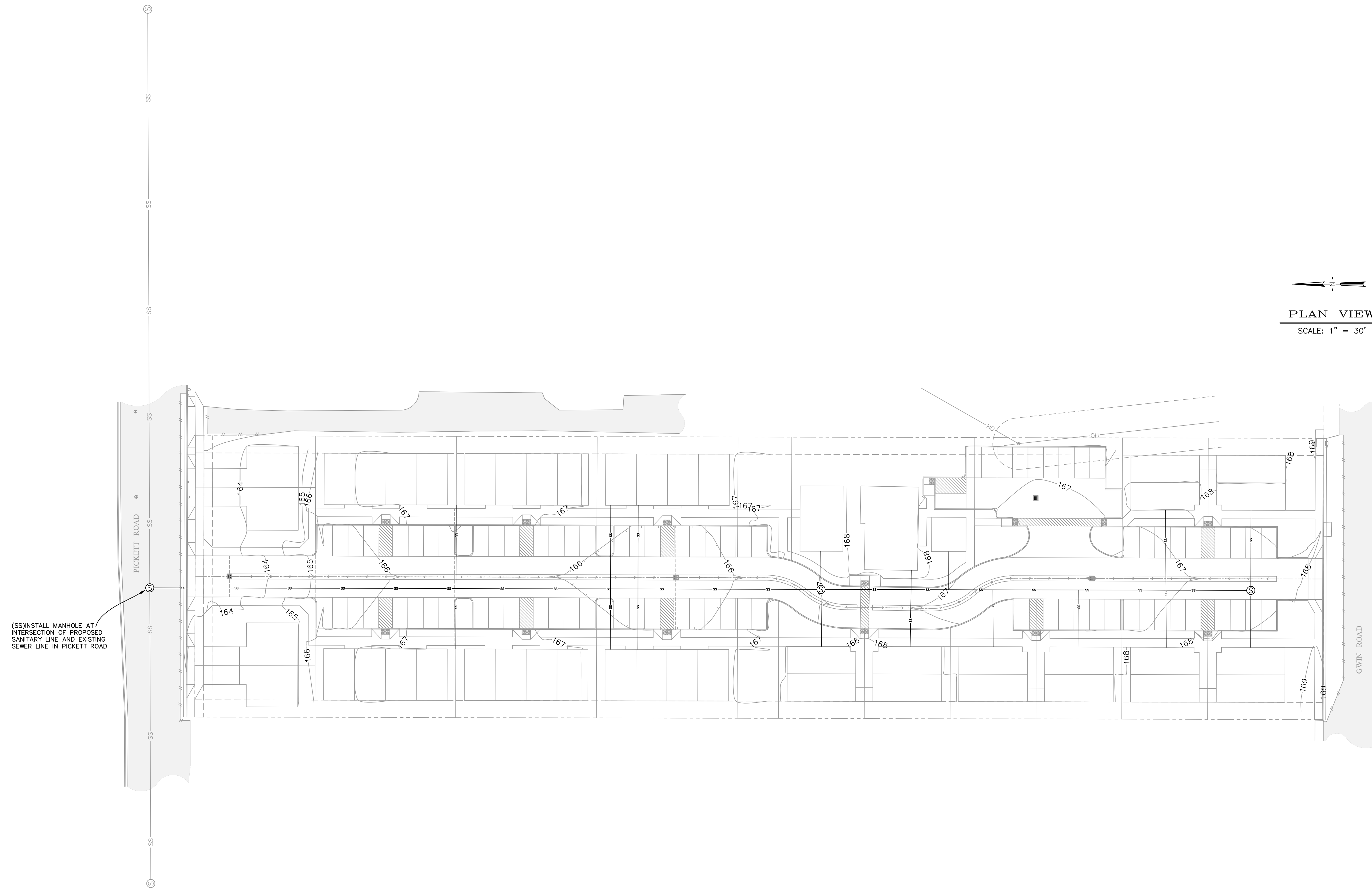
67 WALNUT WAY  
PO BOX 1587  
WILLOW CREEK, CA 95573  
P:(530)629-3000  
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REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY



**PLAN VIEW**  
SCALE: 1" = 30'



(SS) INSTALL MANHOLE AT INTERSECTION OF PROPOSED SANITARY LINE AND EXISTING SEWER LINE IN PICKETT ROAD

VALADAO, ET AL  
1820 PICKETT ROAD  
MCLELLAN, CA 95519  
APN 510-381-021

**SANITARY SEWER PLAN**

HUMBOLDT, CALIFORNIA

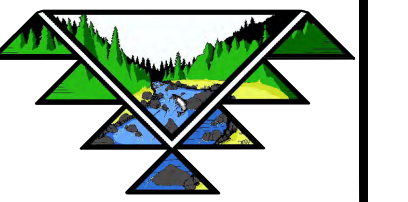
DATE OF ISSUE:  
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SCALE:  
1" = 30'

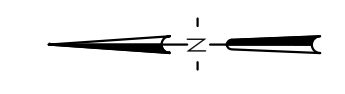
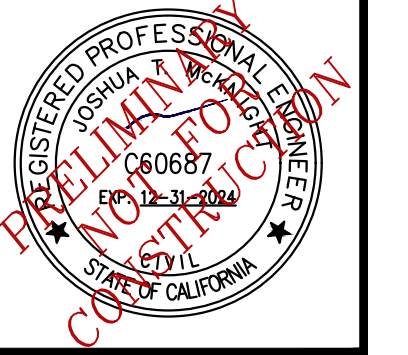
PROJECT NO:  
873.01

DRAWING NO:  
**C4.2**

**TVCE**

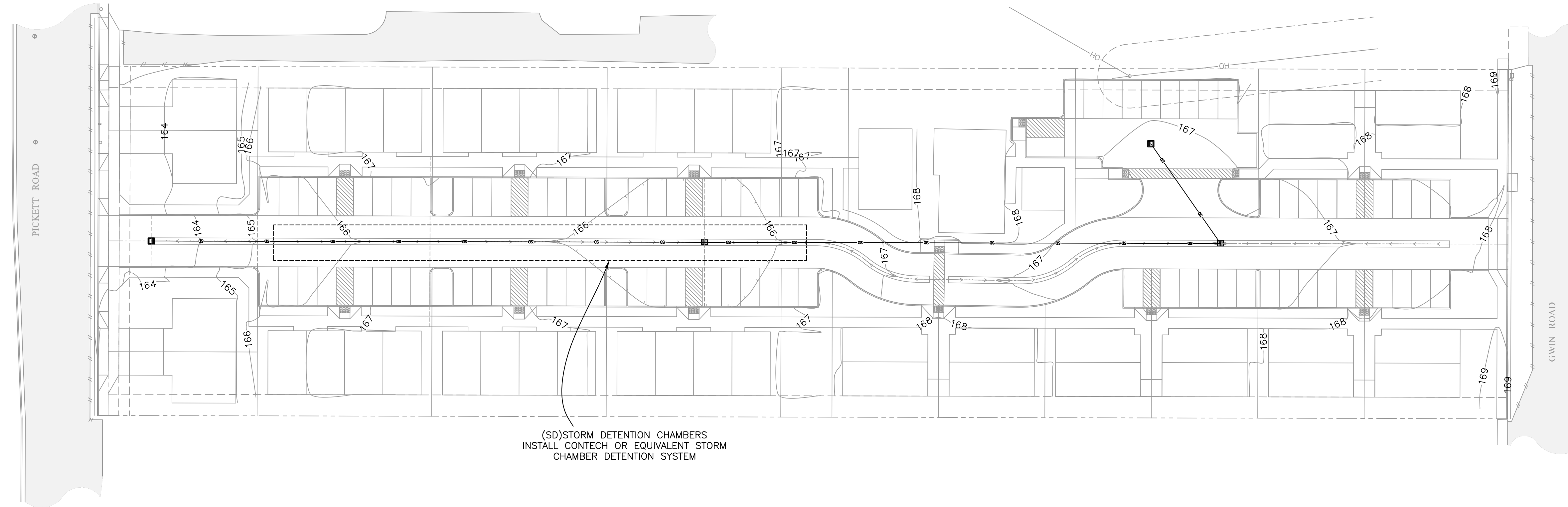


67 WALNUT WAY  
 PO BOX 1587  
 WILLOW CREEK, CA 95573  
 P:(530)629-3000  
 F:(530)629-3011



**PLAN VIEW**

SCALE: 1" = 30'



REV	DATE	DESCRIPTION	CHK BY	APP BY

VALADAO, ET AL  
 1820 PICKETT ROAD  
 MCDEVILLE, CA 95519  
 APN 510-381-021

**STORM WATER PLAN**

HUMBOLDT, CALIFORNIA

DATE OF ISSUE:  
 FEB 2023

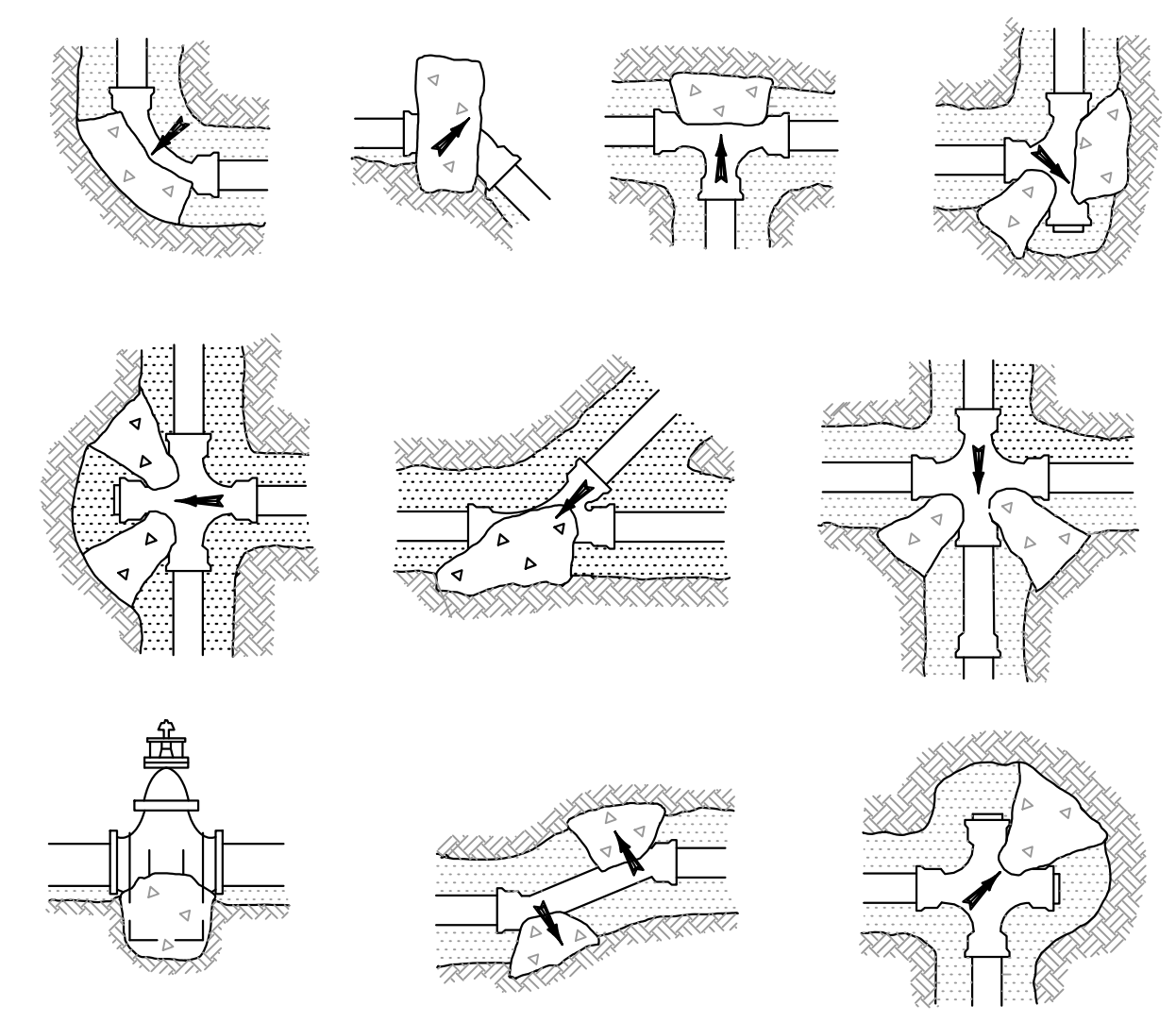
SCALE:  
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PROJECT NO:  
 873.01

DRAWING NO:  
**C4.3**

**TVCE**  
  
 67 WALNUT WAY  
 PO BOX 1587  
 WILLOW CREEK, CA 95753  
 P:(530)629-3000  
 F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER  
 CIVIL  
 STATE OF CALIFORNIA  
 No. 60687  
 EXPIRES 12/31/2024



**15 LOCATION OF THRUST BLOCKS**  
 4.0 4.1 NTS

**TABLE I**  
 THRUST (T) AT FITTINGS, IN POUNDS AT 100 PSI WATER PRESSURE

PIPE SIZE	TEE OR DEAD END	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
1 1/2"	284	401	217	111	56
2"	443	627	339	173	87
2 1/2"	649	918	497	253	127
3"	962	1361	736	375	189
4"	1810	2559	1385	706	355
6"	3739	5288	2862	1459	733
8"	6433	9097	4923	2510	1261
10"	9677	13685	7406	3776	1897
12"	13685	19353	10474	5340	2683
14"	18385	26001	14072	7174	3604
16"	23779	33628	18199	9278	4661

**TABLE II**  
 SAFE BEARING LOADS (B)

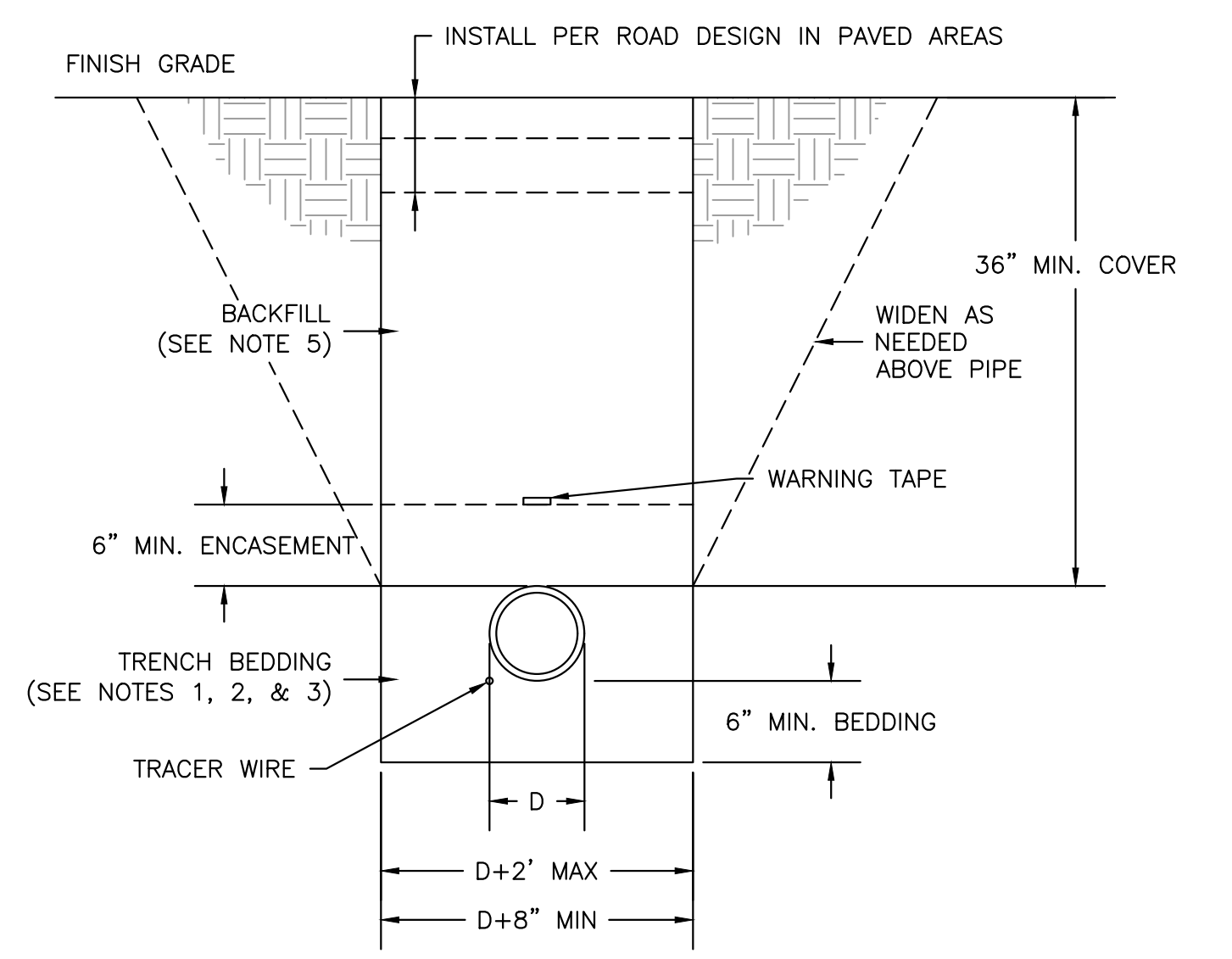
SOIL	SAFE BEARING LOAD, POUNDS PER SQ. FT.
SOUND SHALE	10000
CEMENTED SAND AND GRAVEL	4000
COARSE AND FINE COMPACTED SAND	3000
MEDIUM CLAY (CAN BE SPADED)	2000
SOFT CLAY	1000
MUCK	0

WHERE:  
 $A_{SB} = \frac{T}{B} \times \frac{P.T.}{100}$   
 A<sub>SB</sub> = AREA OF BLOCK BEARING AGAINST UNDISTURBED TRENCH MATERIAL IN SQ. FT.  
 T = THRUST FACTOR FROM TABLE I IN POUNDS AT 100 PSI  
 B = SAFE BEARING LOAD FROM TABLE II IN POUNDS/SQ. FT.  
 P.T. = PRESSURE USED FOR PIPELINE TEST IN PSI

**16 THRUST BLOCK SIZING**  
 4.0 4.1 NOT TO SCALE

- THRUST BLOCK NOTES:**
- THRUST BLOCKS SHALL BE CONSTRUCTED SO THAT MAJOR BEARING SURFACE IS IN DIRECT LINE WITH THE MAJOR FORCE CREATED BY THE PIPE OR FITTINGS.
  - ALL CONCRETE SHALL BE CLASS 470-C-2500 PER "GREENBOOK".
  - CONCRETE SHALL BE FLUID ENOUGH SO THAT IT MAY BE WORKED AROUND THE FITTINGS. A DOUBLE LAYER OF 6 MIL POLYETHYLENE FILM SHALL BE PLACED BETWEEN CONCRETE AND METAL FITTINGS.
  - CONCRETE SHALL BE KEPT BEHIND THE BELL OF THE FITTINGS.
  - ALL THRUST BLOCKS FOR PIPES LARGER THAN 12" SHALL BE ENGINEERED.
  - A CONCRETE PAD SHALL BE PLACED UNDER ALL VALVES 12" AND LARGER FOR SUPPORT.
  - ALL ANCHOR BLOCKS SHALL BE CONSTRUCTED WITH A MINIMUM OF (2) #4 REBAR STRAPS.

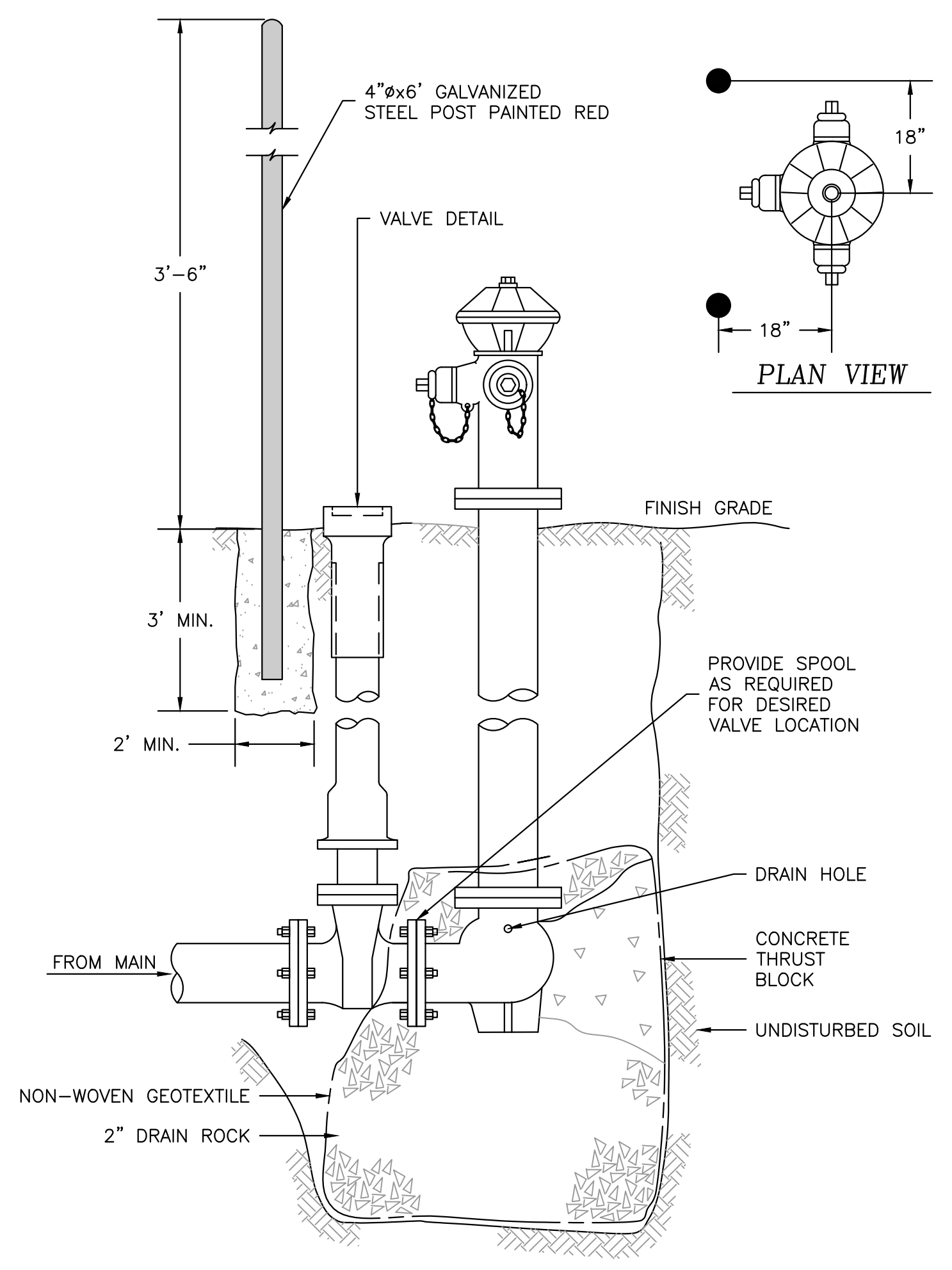
**17 THRUST BLOCK DETAIL**  
 4.0 4.1 NTS



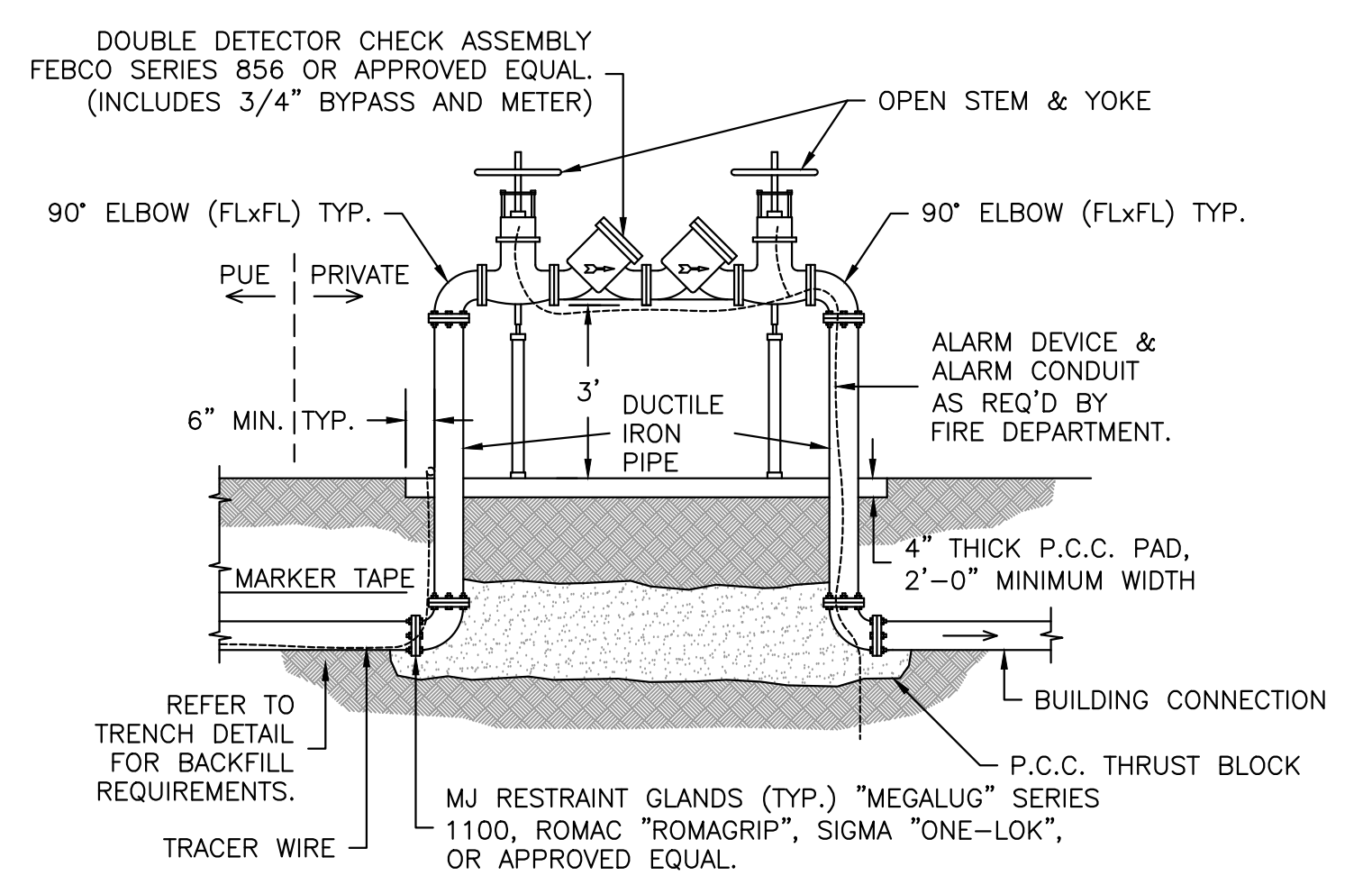
**18 PIPE TRENCH NOTES:**

- ALL TRENCHING WORK TO BE IN STRICT COMPLIANCE WITH 29 CFR 1926 PART P.
- BACKFILL BY HAND, COMPACT OR CONSOLIDATE TO PROVIDE SOLID BEDDING UNDER AND AROUND PIPE.
- BEDDING MATERIAL SHALL BE SAND OR CRUSHED ROCK AND SHALL HAVE A MAXIMUM SIZE OF 3/4" AND BE REASONABLY GRADED FROM COARSE TO FINE WITH A MINIMUM SAND EQUIVALENT OF 28.
- IMPORT GRAVEL BACKFILL SHALL BE STREAM GRAVEL OR CRUSHED ROCK AND BE REASONABLY WELL GRADED FROM COARSE TO FINE WITH A MAXIMUM SIZE OF 1-1/2" AND A MINIMUM SAND EQUIVALENT GREATER THAN 28.
- JETTING WILL NOT BE ALLOWED.
- IN ROAD CROSSINGS BACKFILL ABOVE PIPE SHALL BE 3/4" MINUS CLASS 2 AGGREGATE BASE. BASE CONSOLIDATION SHALL BE 95% RELATIVE COMPACTION PER ASTM 2922. A 2-SACK CONCRETE SLURRY MAY BE USED IN PLACE OF AB.

**18 PIPE TRENCH DETAIL**  
 4.0 4.1 NTS

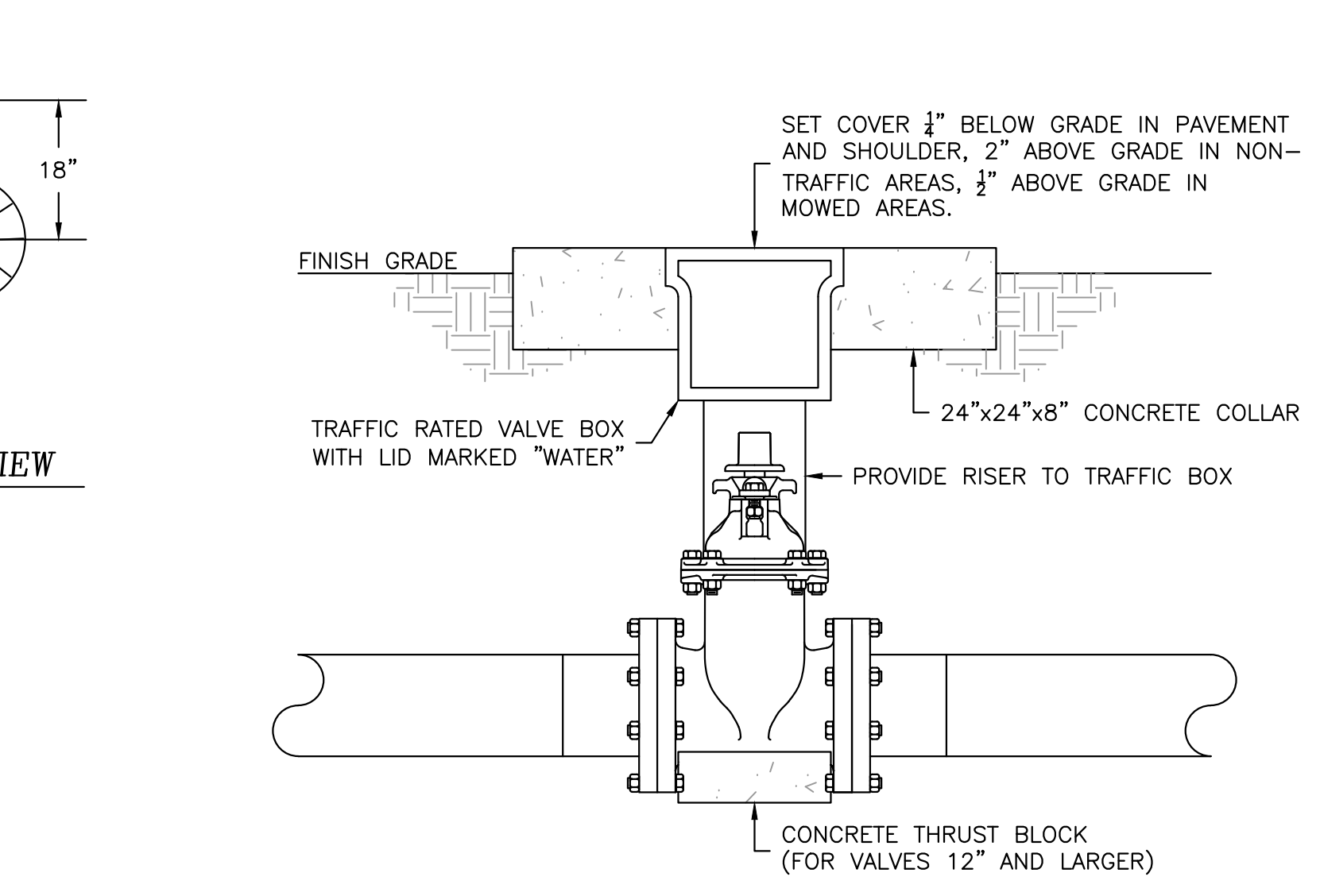


**19 DRY BARREL FIRE HYDRANT DETAIL**  
 4.0 4.1 NTS

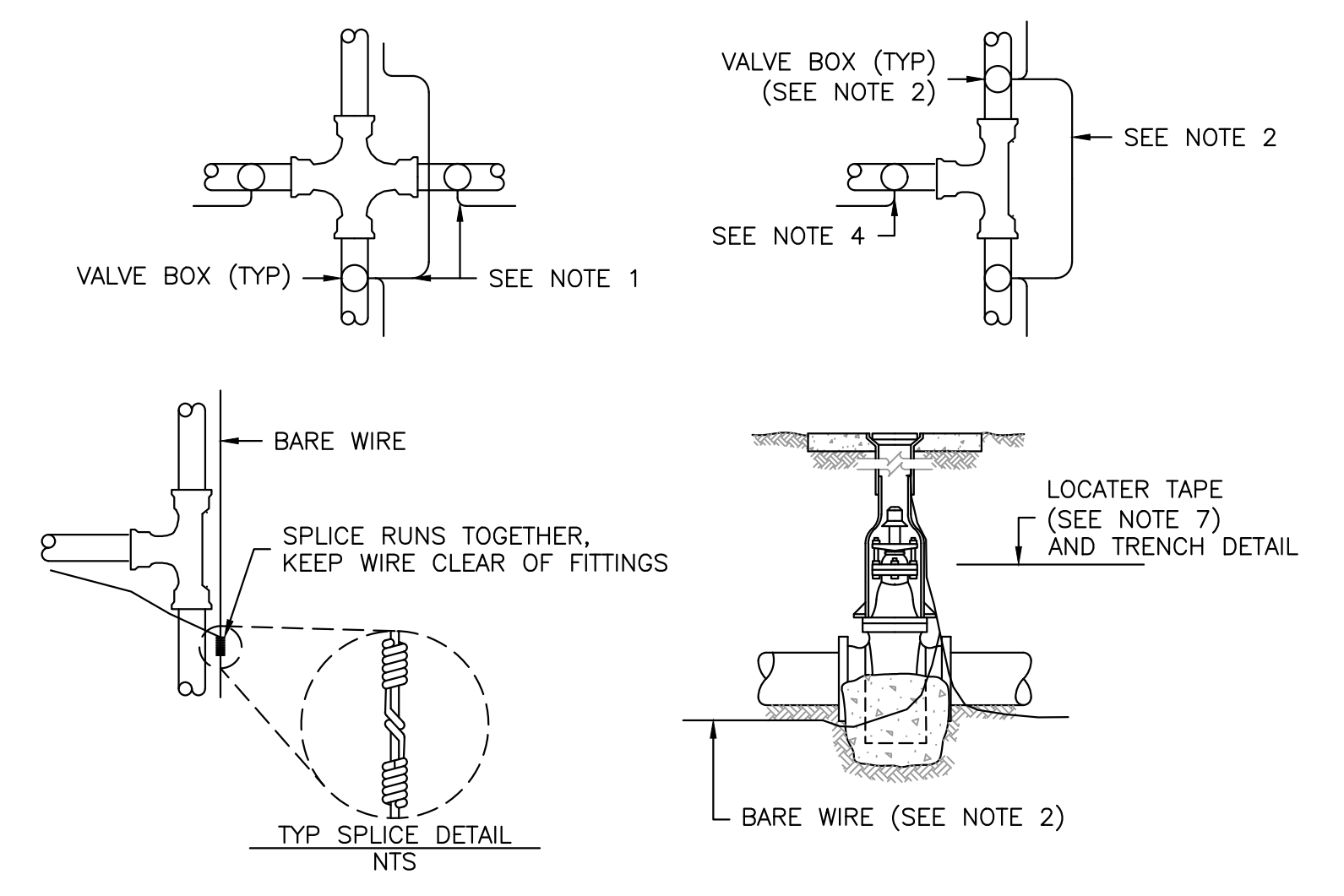


**20 DOUBLE DETECTOR CHECK VALVE**  
 4.0 4.1 NTS

- DDCA NOTES:**
- THE DOUBLE DETECTOR CHECK ASSEMBLY SHALL BE REQUIRED FOR USE IN CLASS I AND CLASS II FIRE SPRINKLER SYSTEMS ONLY. CLASS I AND II AUTOMATIC FIRE SPRINKLER SYSTEMS ARE THOSE WITH DIRECT CONNECTION TO THE PUBLIC WATER MAIN ONLY; NO RESERVOIRS OR AUXILIARY SOURCES, NO ANTIFREEZE OR ADDITIVES OF ANY KIND, AND ALL SPRINKLER DRAINS DISCHARGE TO THE ATMOSPHERE OR OTHER SAFE OUTLETS (AWWA MANUAL NO. M-14).
  - ASSEMBLY SHALL BE PROTECTED FROM DAMAGE BY VEHICLES AND MAY REQUIRE BOLLARDS.
  - FIRE SPRINKLER SYSTEM ALARM MONITORING SHALL BE PER CURRENT STATE AND LOCAL FIRE CODES.

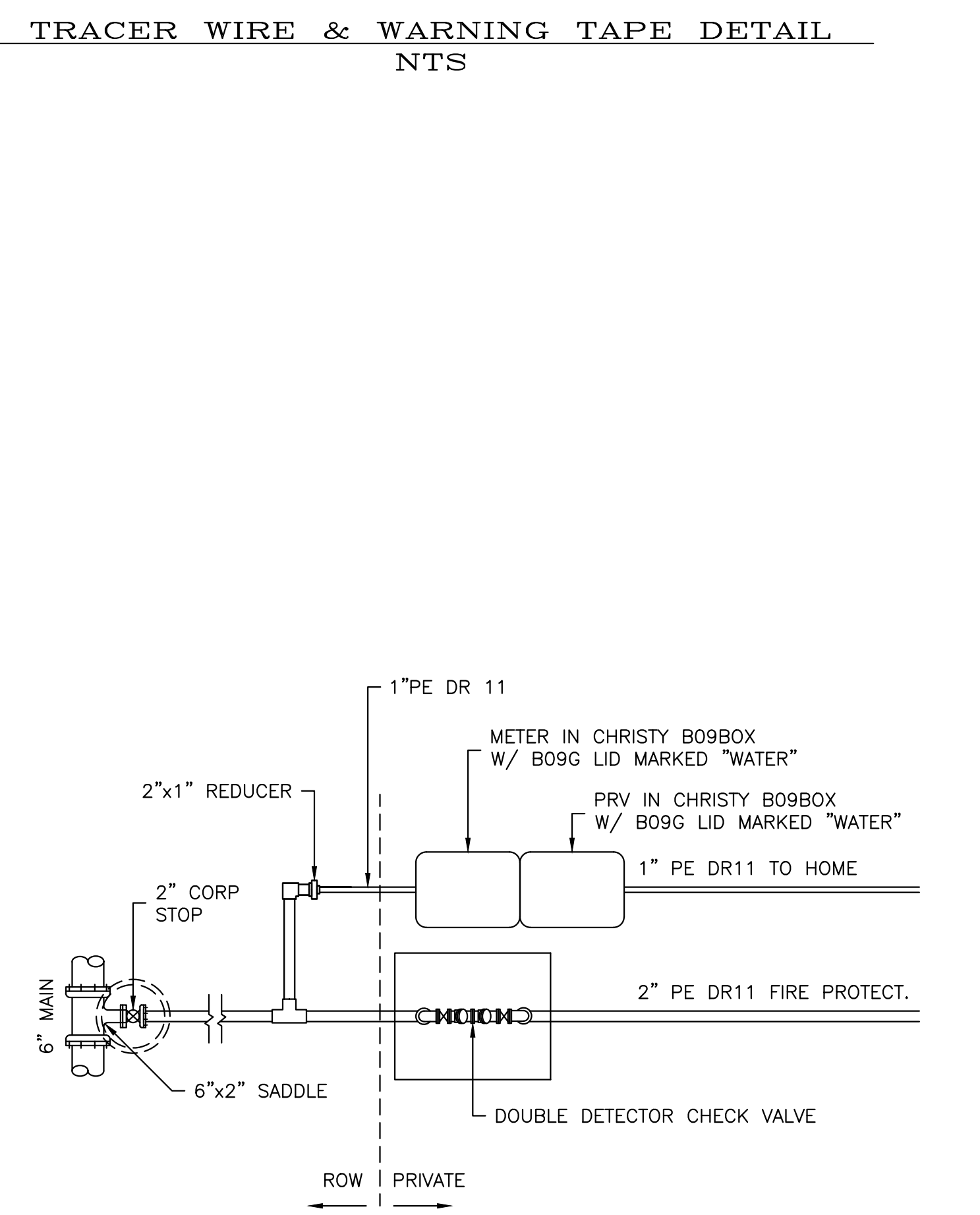


**21 GATE VALVE DETAIL**  
 4.0 4.1 NTS



**22 TRACER WIRE & WARNING TAPE DETAIL**  
 4.0 4.1 NTS

- LOCATING WIRE AND WARNING TAPE NOTES:**
- WIRE SHALL BE CONTINUOUS BETWEEN VALVE BOXES, EXCEPT WHERE BOXES ARE WITHIN TEN (10) FEET OF PIPE INTERSECTION.
  - BARE WIRE SHALL NOT TOUCH VALVES OR FITTINGS.
  - LOCATING WIRE SHALL BE PLACED AT BOTTOM OF TRENCH, NEXT TO PIPE. (DO NOT ATTACH WIRE TO PIPE).
  - IF WIRE ENDS AT A VALVE, A SINGLE INSULATED WIRE SHALL EXTEND UP TO WITHIN 12" OF BOX COVER.
  - ALL VALVES, INCLUDING FIRE HYDRANT VALVES, SHALL HAVE LOCATING WIRES.
  - LOCATING WIRE SHALL BE BARE #6 AWG SOLID COPPER, SOFT DRAWN WIRE. WIRE SHALL BE INSTALLED WITH ALL NON-METALLIC MAINS AND SERVICES.
  - WARNING TAPE SHALL BE A DETECTABLE METALLIZED 2" WIDE WARNING TAPE. BLUE COLOR CODED, IMPRINTED WITH "CAUTION-BURIED WATER LINE BELOW" SHALL BE INSTALLED 6" MINIMUM ABOVE ALL WATER MAINS IN OFF ROAD INSTALLATIONS. LINEGUARD DETECTABLE MARKING TAP, TYPE III OR APPROVED EQUAL.



**23 WATER SERVICE NOTES:**

- SET METER BOX COVER FLUSH WITH FINISHED SURFACE.
- PIPE OPENINGS IN METER BOX SHALL BE CUT - DO NOT USE HAMMER. PRIOR TO BACKFILLING, PIPE OPENINGS SHALL BE GROUTED.
- TRACER WIRE REQUIRED FROM GATE VALVE AT MAIN TO HOME.

**23 WATER SERVICE DETAIL**  
 4.0 4.1 NTS

REV	DATE	DESCRIPTION	CHK BY	APP BY

**WATER DETAILS**  
 VALADAO, ET AL  
 1820 PICKETT ROAD  
 MCLELLAN, CA 95051-9  
 APR 5 10-381-021  
 HUMBOLDT, CALIFORNIA

DATE OF ISSUE:  
 FEB 2023

SCALE:  
 NTS

PROJECT NO:  
 873.01

DRAWING NO:  
**C04.4**



67 WALNUT WAY  
PO BOX 1587  
WILLOW CREEK, CA 95573  
P:(530)629-3000  
F:(530)629-3011

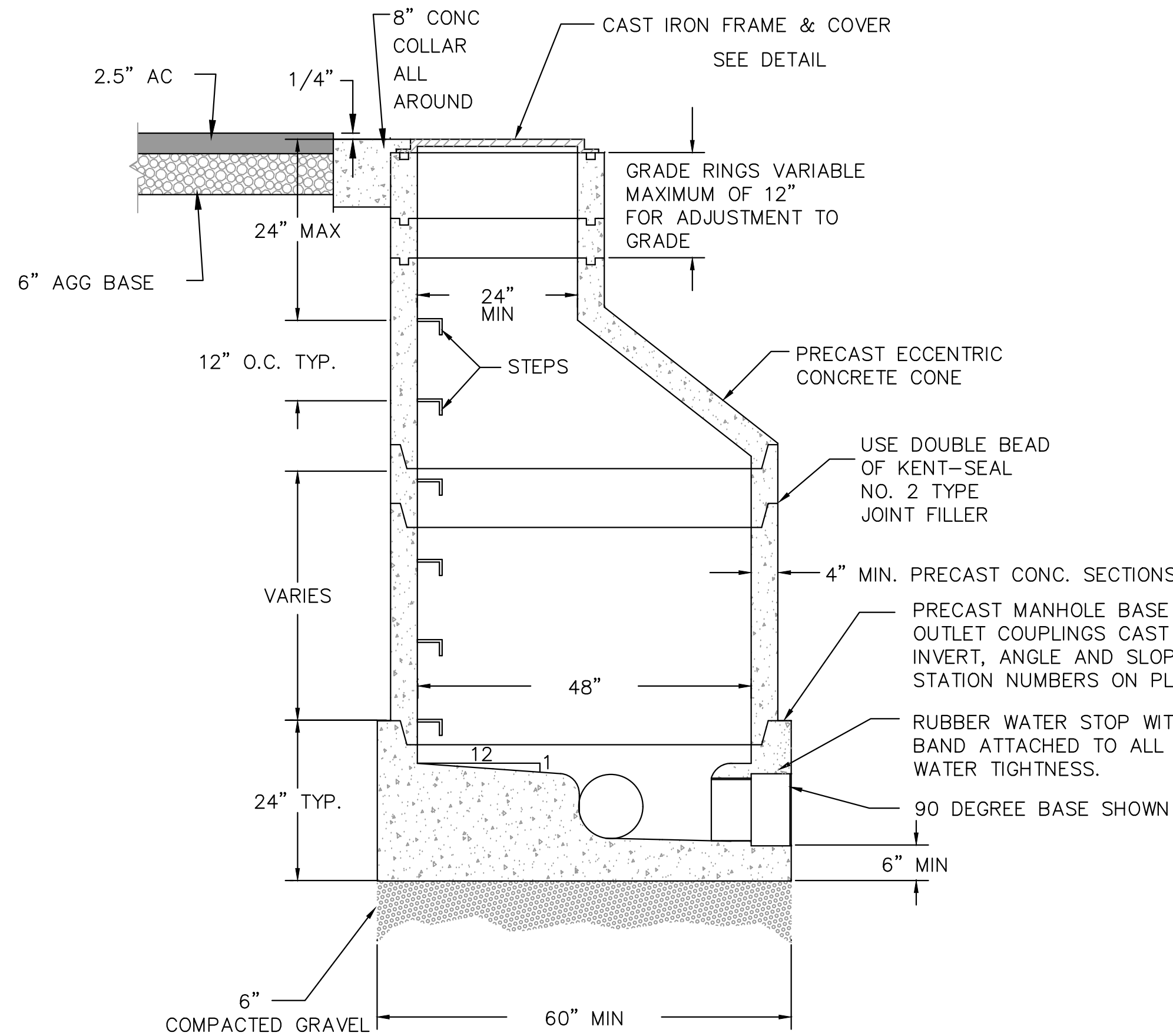


**SANITARY SEWER GENERAL NOTES:**

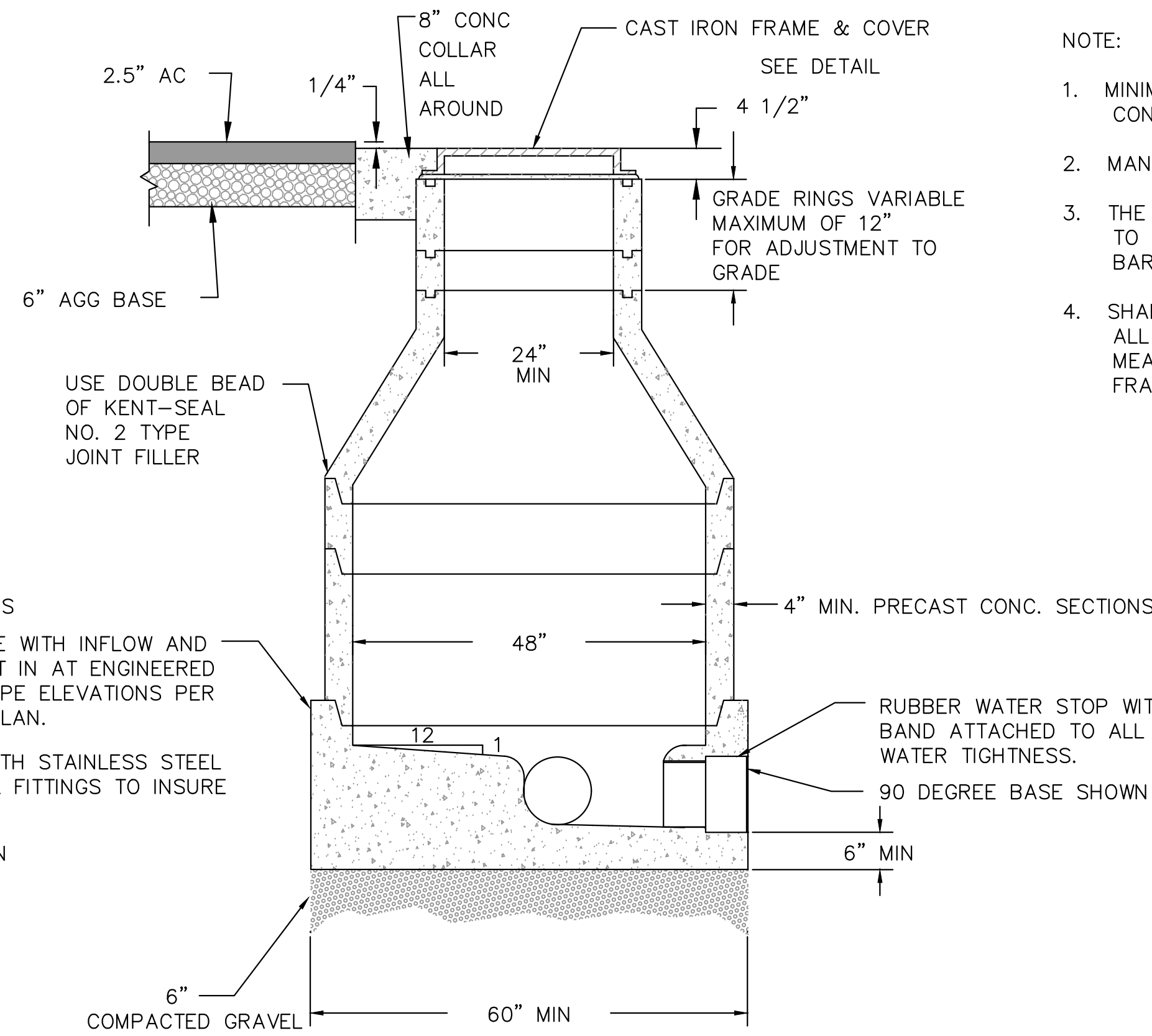
1. THE CONTRACTOR SHALL VERIFY ALL SEWER LATERAL LOCATIONS WITH THE PROJECT ENGINEER PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR SHALL EXPOSE THE END OF EXISTING SEWER LINES FOR SURVEYORS TO VERIFY LOCATION AND ELEVATION PRIOR TO PLACEMENT OF NEW PIPE.
3. ANY SEWER PIPE HAVING LESS THAN 20" OF COVER MEASURED AT THE BELL WITHIN THE STREET BEFORE THE ADDITION OF BASE ROCK SHALL BE DUCTILE IRON PIPE. ALL OTHER PIPE SHALL BE PVC CONFORMING TO ASTM D3034.
4. THE CONTRACTOR SHALL PLACE AN "S" IN THE WET CONCRETE CURB TOP AT SEWER LATERAL LOCATIONS.
5. ALL SEWER SERVICES TO MANHOLES SHALL MATCH INVERT OF THE INLET PIPE TO CROWN OF THE OUTLET PIPE, UNLESS OTHERWISE NOTED.
6. ALL SEWER SERVICES TO MANHOLES SHALL BE AIR TESTED TO THE SATISFACTION OF THE ENGINEER AFTER AGGREGATE BASE AND SIDEWALK PLACEMENT. SERVICES SHALL BE BALL AND FLUSHED AND TV TESTED. PRIOR TO EXPIRATION OF THE 1 YEAR WARRANTY PERIOD.
7. SEWER MAINS AND LATERALS SHALL BE TV TESTED. CONTRACTOR TO COORDINATE WITH ENGINEER.
8. ALL MANHOLE RISERS SHALL BE SEALED BETWEEN RINGS WITH "RAMNECK" OR SIMILAR SEALING MATERIAL. JOINTS SHALL BE GROUTED INSIDE AND OUT.
9. DURING INSTALLATION AND BACKFILLING, ALL TRENCHES SHALL BE FREE OF WATER. ALL DEWATERING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
10. POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS SHALL, AT A MINIMUM, CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D3034 AS THEY APPLY TO SDR-26 PVC SEWER PIPE USING AN ELASTOMERIC GASKET JOINT IN A BELL AND SPIGOT ASSEMBLY SYSTEM.
11. POLYVINYL CHLORIDE JOINTS SHALL BE BELL AND SPIGOT USING AN ELASTOMERIC GASKET WHICH MEETS THE REQUIREMENTS OF ASTM DESIGNATION D1869. NO SOLVENT WELD JOINTS WILL BE ALLOWED.
12. ALL SANITARY SEWER PIPE INSTALLATIONS SHALL BE ACCOMPLISHED AS SPECIFIED HEREIN. PVC PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATION.
13. ALL SEWER LATERALS TO BE PVC SDR-26 PER ASTM D3034.
14. ALL LATERALS SHALL HAVE NO LESS THAN ONE CLEAN-OUT BETWEEN MAIN AND HOME. ALL LATERAL CLEANOUTS SHALL BE TWO-WAY, INSTALLED W/ RISERS TO FINISH GRADE IN CHRISTY BOX (OR EQUIVALENT) WITH LID MARKED "SEWER".
15. ALL LATERALS AND MAINS ARE TO BE VIDEO TAPED TO THE SERVICE CLEAN-OUT.
16. ALL LEAKAGE TESTS SHALL BE COMPLETED AND APPROVED AFTER BACKFILLING AND PRIOR TO PLACEMENT OF PERMANENT SURFACING.
17. ALL SEWER MAINS AND LATERALS SHALL BE CLEANED AND FLUSHED, DEFLECTION TESTED AND AIR TESTED.
18. THE COMPLETE JOB SITE SHALL BE DEEMED READY FOR TELEVISION INSPECTION WHEN THE FOLLOWING WORK IS COMPLETED:
  - 18.1. ALL SEWER PIPELINES ARE INSTALLED AND BACKFILLED.
  - 18.2. ALL STRUCTURES ARE IN PLACE, ALL CHANNELING IS COMPLETE AND PIPELINES ARE ACCESSIBLE FROM STRUCTURES.
  - 18.3. ALL OTHER UNDERGROUND FACILITIES, UTILITY PIPING AND CONDUITS ARE INSTALLED.
  - 18.4. FINAL STREET SUB GRADING IS COMPLETE AND READY FOR ASPHALT CONCRETE SURFACING. PIPELINES TO BE INSPECTED HAVE BEEN PRELIMINARY BALLED AND FLUSHED OR CLEANED WITH A HIGH PRESSURE CLEANER.
  - 18.5. FINAL AIR TESTS HAVE BEEN COMPLETED AND APPROVED.
19. WHEN THE ABOVE ITEMS ARE COMPLETE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING AS TO THE SCHEDULED DATE OF THE TELEVISION INSPECTION.

**NOTE:**

1. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE - 3000 PSI
2. MANUFACTURED TO MEET ASTM C 478
3. THE MANHOLE BASE SHALL BE PRECAST TO 8" ABOVE THE BARREL OF THE MAIN SEWER
4. SHALLOW MANHOLE IS REQUIRED FOR ALL MANHOLES LESS THAN 5' IN DEPTH MEASURED FROM LINE OF FLOW TO FRAME RIM

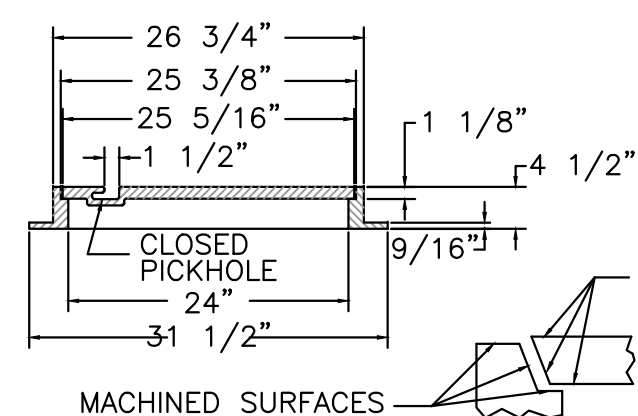
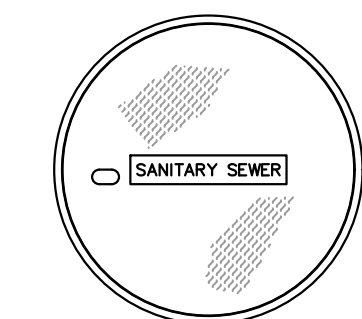


**24**  
4.0 4.2  
**STANDARD MANHOLE**  
**DETAIL**  
NTS



**25**  
4.0 4.2  
**SHALLOW MANHOLE**  
**DETAIL**  
NTS

**SS MANHOLE DETAIL**  
NTS

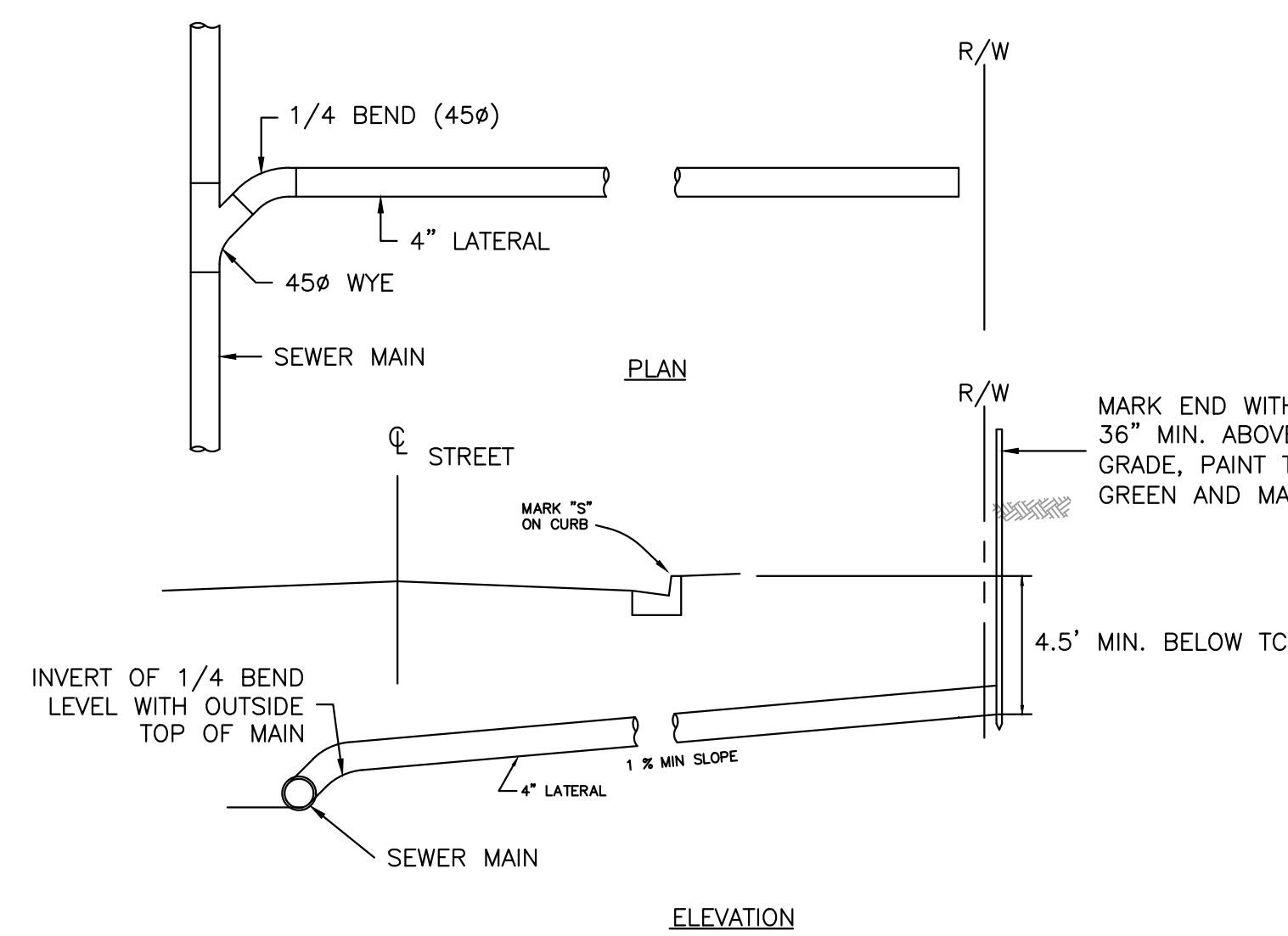


**NOTES:**

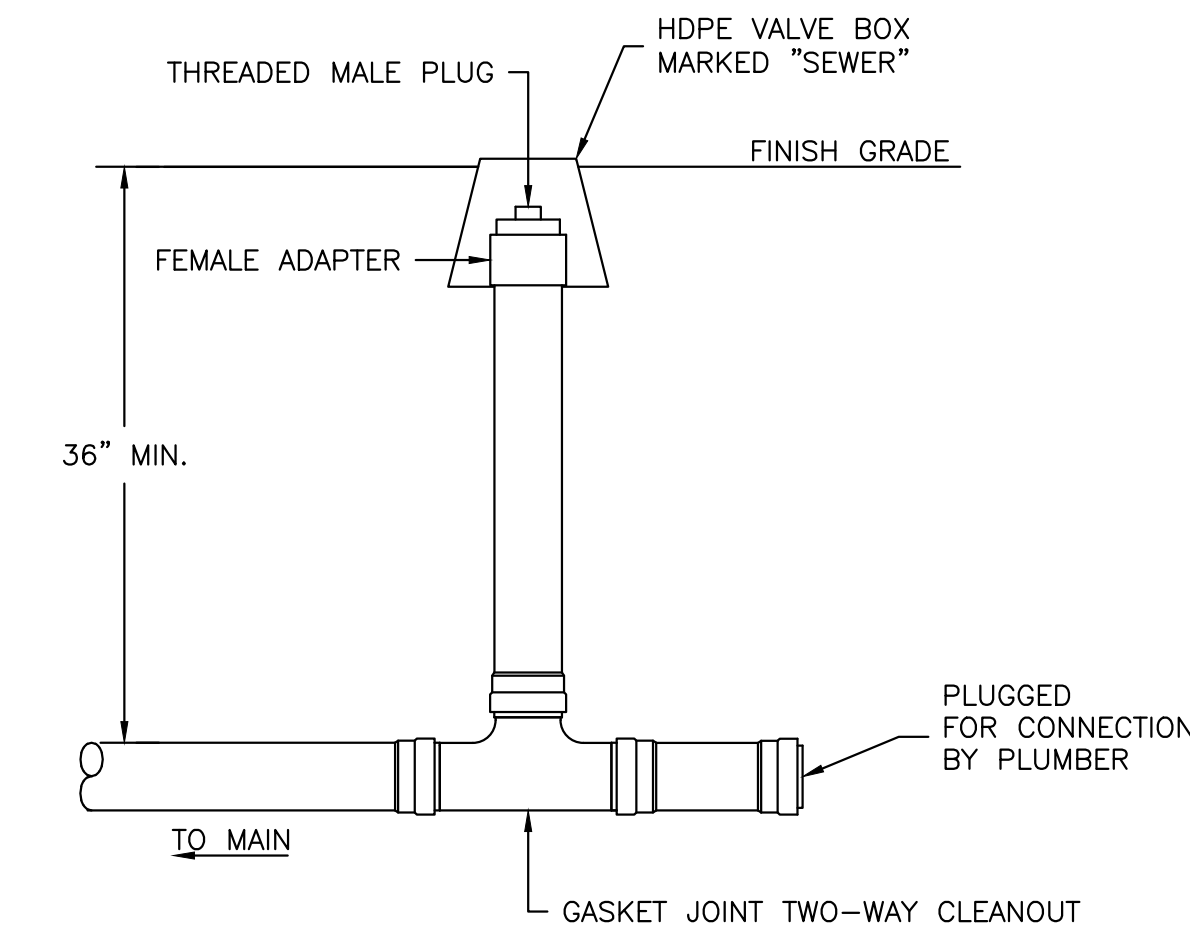
1. FRAME AND COVER FULLY MACHINED ON SURFACE, AS SHOWN, FOR PERFECT NO-ROCK, NO-STICK FIT.
2. STANDARD COVER MARKING: "SANITARY SEWER".
3. CASTING TO BE FURNISHED WITH BLEND PICKHOLES.
4. CASTINGS TO BE DIPPED IN ASPHALT PAINT.
5. ALL PARTS OF ACCEPTABLE ASSEMBLIES TO BE INTERCHANGEABLE.

**ACCEPTABLE MANUFACTURERS**  
**SOUTH BAY FOUNDRY**  
SFB1900 CPH  
COVER 130 LBS  
FRAME 140 LBS  
**D AND L SUPPLY**  
D&L A-1024  
COVER 130 LBS  
FRAME 150 LBS

**27**  
4.0 4.2  
**SS MANHOLE LID DETAIL**  
NTS



**28**  
4.0 4.2  
**SS SERVICE LATERAL DETAIL**  
NTS



**NOTES:**

1. ALL PIPING AND FITTINGS TO BE PVC SDR 26.

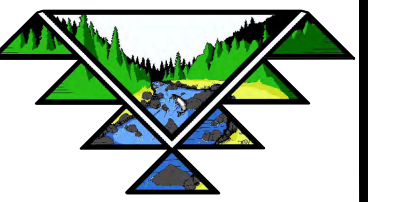
**29**  
4.0 4.2  
**SS TWO-WAY CLEANOUT DETAIL**  
NTS

REV	DATE	DESCRIPTION	APP'D BY

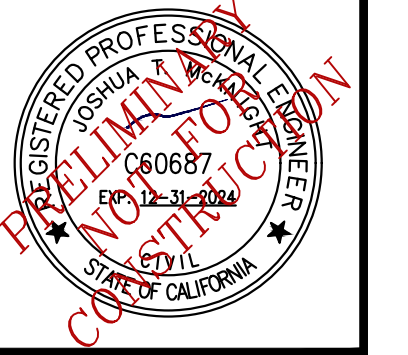
**SANITARY SEWER DETAILS**  
VALADAO, ET AL  
1830 PICKETT ROAD  
MCLELLAN, CA 94519  
APN 510-381-021  
HUMBOLDT, CALIFORNIA

DATE OF ISSUE:  
FEB 2023  
SCALE:  
NTS  
PROJECT NO:  
873.01  
DRAWING NO:  
**C04.5**

**TVCE**

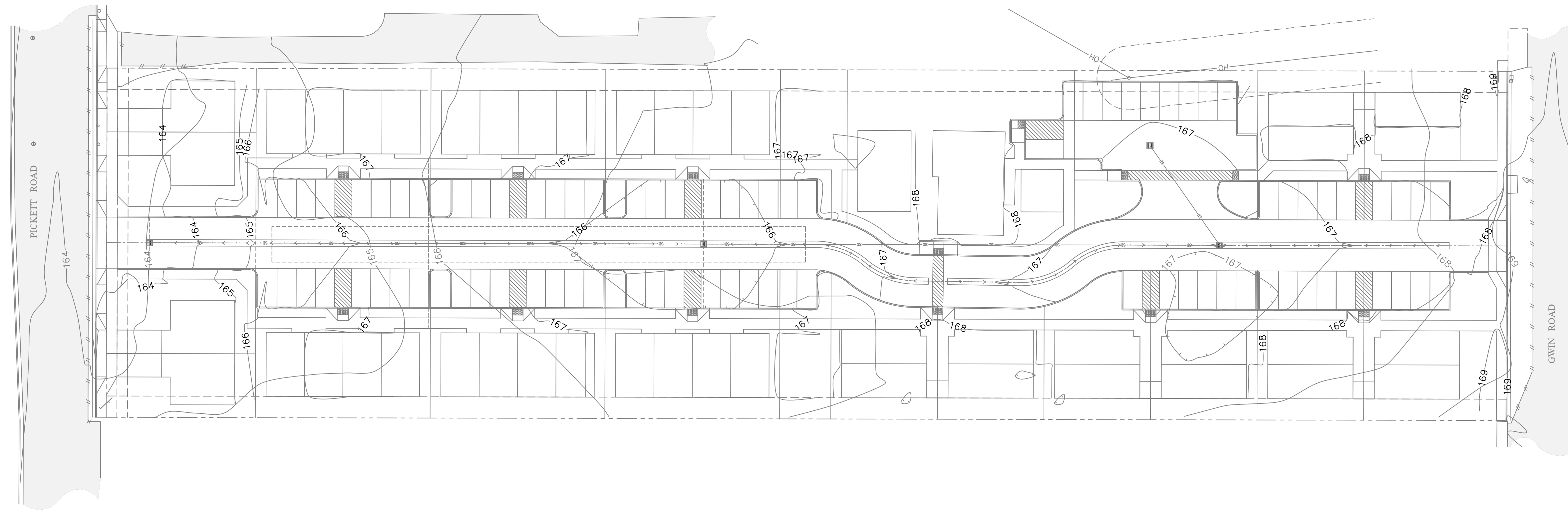


67 WALNUT WAY  
PO BOX 1587  
WILLOW CREEK, CA 95573  
P:(530)629-3000  
F:(530)629-3011



PLAN VIEW  
SCALE: 1" = 30'

LEGEND	
	ONSITE OVERLAND RELEASE PATH
	OFFSITE OVERLAND RELEASE PATH
	STRAW/FIBER ROLLS
	SILT FENCE
	SEED AND STRAW



REV	DATE	DESCRIPTION	DESIGNED BY	CHECKED BY	APP. BY

VALADAO, ET AL  
1820 PICKETT ROAD  
MCLELLAN, CA 95519  
APN 510-381-021

**EROSION CONTROL PLAN**

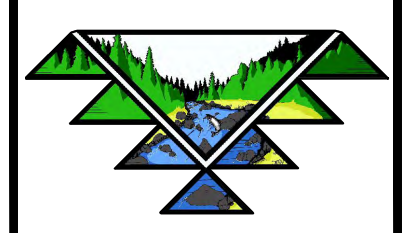
HUMBOLDT, CALIFORNIA

DATE OF ISSUE:  
FEB 2023

SCALE:  
1" = 30'

PROJECT NO:  
873.01

DRAWING NO:  
**C5.0**



67 WALNUT WAY  
 PO BOX 1587  
 WILLOW CREEK, CA 95573  
 P:(530)629-3000  
 F:(530)629-3011



**STRAW MULCH NOTES:**

1. STRAW SHALL BE DERIVED FROM WHEAT, RICE, OR BARLEY. WHERE REQUIRED BY THE PLANS, SPECIFICATIONS, PERMITS, OR ENVIRONMENTAL DOCUMENTS, NATIVE GRASS STRAW SHALL BE USED.
2. A TACKIFIER IS THE PREFERRED METHOD FOR ANCHORING STRAW MULCH TO THE SOIL ON SLOPES.
3. CRIMPING, PUNCH ROLLER-TYPE ROLLERS, OR TRACK WALKING MAY ALSO BE USED TO INCORPORATE STRAW MULCH INTO THE SOIL ON SLOPES. TRACK WALKING SHALL ONLY BE USED WHERE OTHER METHODS ARE IMPRACTICAL.
4. AVOID PLACING STRAW ONTO ROADS, SIDEWALKS, DRAINAGE CHANNELS, SOUND WALLS, EXISTING VEGETATION, ETC.
5. STRAW MULCH WITH TACKIFIER SHALL NOT BE APPLIED DURING OR IMMEDIATELY BEFORE RAINFALL.
6. APPLY STRAW AT A MINIMUM RATE OF 4,000 LB/ACRE, EITHER BY MACHINE OR BY HAND DISTRIBUTION.
7. ROUGHEN EMBANKMENTS AND FILL RILLS BEFORE PLACING THE STRAW MULCH BY ROLLING WITH A CRIMPING OR PUNCHING TYPE ROLLER OR BY TRACK WALKING.
8. EVENLY DISTRIBUTE STRAW MULCH ON THE SOIL SURFACE.
9. ON SMALL AREAS, A SPADE OR SHOVEL CAN BE USED TO PUNCH IN STRAW MULCH.
10. ON SLOPES WITH SOILS THAT ARE STABLE ENOUGH AND OF SUFFICIENT GRADIENT TO SAFELY SUPPORT CONSTRUCTION EQUIPMENT WITHOUT CONTRIBUTING TO COMPACTION AND INSTABILITY PROBLEMS, STRAW CAN BE "PUNCHED" INTO THE GROUND USING A KNIFE BLADE ROLLER OR A STRAIGHT BLADED COULTER, KNOWN COMMERCIALY AS A "CRIMPER".
11. ON SMALL AREAS AND/OR STEEP SLOPES, STRAW CAN ALSO BE HELD IN PLACE USING JUTE. THE NETTING SHALL BE HELD IN PLACE USING 11 GAUGE WIRE STAPLES, GEOTEXTILE PINS OR WOODEN STAKES AS DESCRIBED IN EC-7, GEOTEXTILES AND MATS.
12. TACKIFIER ACTS TO GLUE THE STRAW FIBERS TOGETHER AND TO THE SOIL SURFACE. THE TACKIFIER SHALL BE SELECTED BASED ON LONGEVITY AND ABILITY TO HOLD THE FIBERS IN PLACE. A TACKIFIER IS TYPICALLY APPLIED AT A RATE OF 125 LB/ACRE. IN WINDY CONDITIONS, THE RATES ARE TYPICALLY 180LB/ACRE.

**EROSION AND SEDIMENT CONTROL NOTES:**

1. EROSION CONTROL BEST MANAGEMENT PRACTICES (BMP'S) SHALL BE INSTALLED AND MAINTAINED DURING THE WET SEASON (OCTOBER 1 THROUGH APRIL 30). SEDIMENT CONTROL BMP'S SHALL BE INSTALLED AND MAINTAINED ALL YEAR.
2. ALL DRAINAGE INLETS IMMEDIATELY DOWNSTREAM OF THE WORK AREA AND WITHIN THE WORK AREA SHALL BE PROTECTED WITH SEDIMENT CONTROL AND INLET FILTER BAGS, YEAR ROUND.
3. ALL STABILIZED CONSTRUCTION ACCESS LOCATIONS SHALL BE CONSTRUCTED PER STANDARD DRAWING TC-1 WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES PAVED AREAS. THE STABILIZED ACCESS SHALL BE MAINTAINED ON A YEAR-ROUND BASIS UNTIL THE COMPLETION OF CONSTRUCTION.
4. ALL AREAS DISTURBED DURING CONSTRUCTION, BY GRADING, TRENCHING, OR OTHER ACTIVITIES, SHALL BE PROTECTED FROM EROSION DURING THE WET SEASON (OCTOBER 1 THROUGH APRIL 30). HYDROSEED, IF UTILIZED, MUST BE PLACED BY SEPTEMBER 15. HYDROSEED PLACED DURING THE WET SEASON SHALL USE A SECONDARY EROSION PROTECTION METHOD.
5. SENSITIVE AREAS AND AREAS WHERE EXISTING VEGETATION IS BEING PRESERVED SHALL BE PROTECTED WITH CONSTRUCTION FENCING. SEDIMENT CONTROL BMP'S SHALL BE INSTALLED WHERE ACTIVE CONSTRUCTION AREAS DRAIN INTO SENSITIVE OR PRESERVED VEGETATION AREAS.
6. SEDIMENT CONTROL BMP'S SHALL BE PLACED ALONG THE PROJECT PERIMETER WHERE DRAINAGE LEAVES THE PROJECT. SEDIMENT CONTROL BMP'S SHALL BE MAINTAINED YEAR-ROUND UNTIL THE CONSTRUCTION IS COMPLETE OR THE DRAINAGE PATTERN HAS BEEN CHANGED AND NO LONGER LEAVES THE SITE.
7. ALL SLOPES GREATER THAN 1:1 SHALL RECEIVE SEED AND STRAW OR OTHER EROSION CONTROL.
8. ALL FENCING AND EROSION CONTROL METHODS SHALL BE MAINTAINED THROUGHOUT ALL ON-SITE CONSTRUCTION ACTIVITIES.
9. ALL BMPS SHALL BE INSTALLED AND FUNCTIONING PRIOR TO ANY ANTICIPATED STORM EVENT.

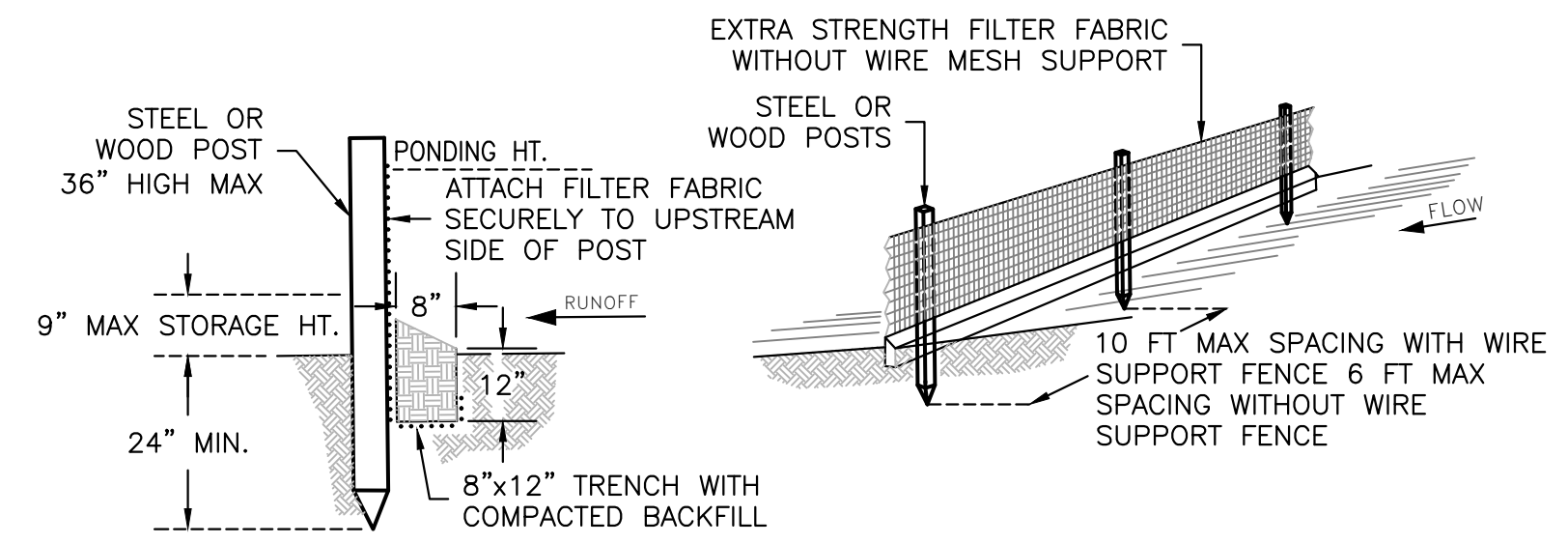
**GENERAL WATER POLLUTION CONTROL NOTES:**

1. THE INFORMATION ON THESE DRAWINGS ARE ACCURATE FOR WATER POLLUTION CONTROL PURPOSES ONLY.
2. THE INFORMATION ON THIS PLAN IS INTENDED TO BE USED AS A GUIDELINE FOR THE CONTRACTOR AND SUBCONTRACTORS TO INSTALL WATER POLLUTION CONTROL DEVICES AT GENERAL LOCATION THROUGHOUT THE SITE. THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE NARRATIVE SECTION OF THE WATER POLLUTION CONTROL PLAN.
3. FIELD CONDITIONS MAY NECESSITATE MODIFICATION TO THESE DRAWINGS.
4. PERMANENT EROSION CONTROL AND REVEGETATION WILL BE INSTALLED AS AREAS ARE DETERMINED TO BE SUBSTANTIALLY COMPLETE AND PER THE SPECIFICATIONS.
5. ALL BMPs WILL BE FIELD-VERIFIED AND APPROVED FOR INSTALLATION BY THE RE. ALL BMPs WILL BE INSTALLED ACCORDING TO THE STANDARD PLANS AND SPECIFICATIONS UNLESS APPROVED BY THE RE AND AMENDED INTO THE WPCP.

**BMP MAINTENANCE NOTES:**

1. ALL OF THE IMPLEMENTED BMPs SHALL BE INSPECTED AND CORRECTED AS NEEDED PRIOR TO, DURING, AND DIRECTLY FOLLOWING ANY STORM EVENT, OR WHENEVER PRACTICAL.

PHASE OF CONSTRUCTION	BMP INSTALLATION SCHEDULE										
	EROSION AND SEDIMENT CONTROL MEASURES										
	(WET SEASON)				(WET AND DRY SEASON)						
PRE-GRADING	●	●	●								●
CUT AND FILL ACTIVITIES				●	●						●
UNDERGROUND WORK											
STORM DRAIN IMPROVEMENTS											
OFFSITE IMPROVEMENTS				●							
COMPLETION OF PAVING											
POST-GRADING	●	●									

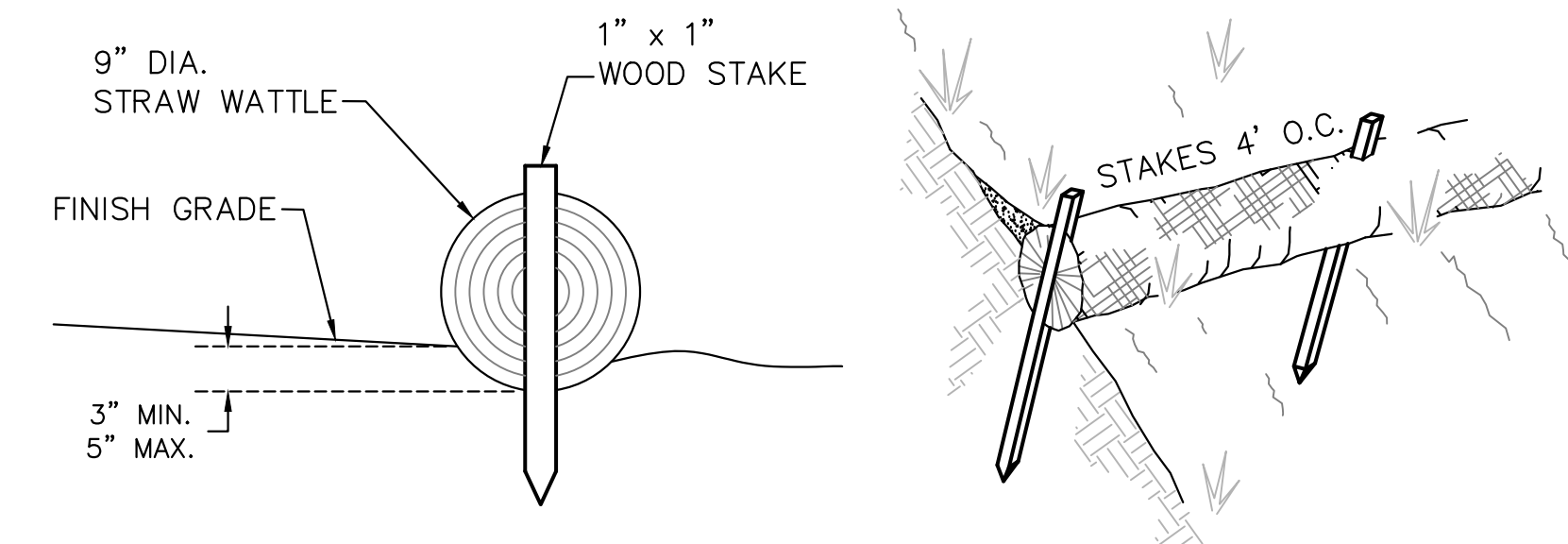


**SILT FENCE NOTES:**

1. THE CONTRACTOR SHALL INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT.
2. CONTRACTOR SHALL REMOVE SEDIMENT AS NECESSARY. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND IN AN AREA THAT CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

**SILT FENCE DETAILS**

NTS

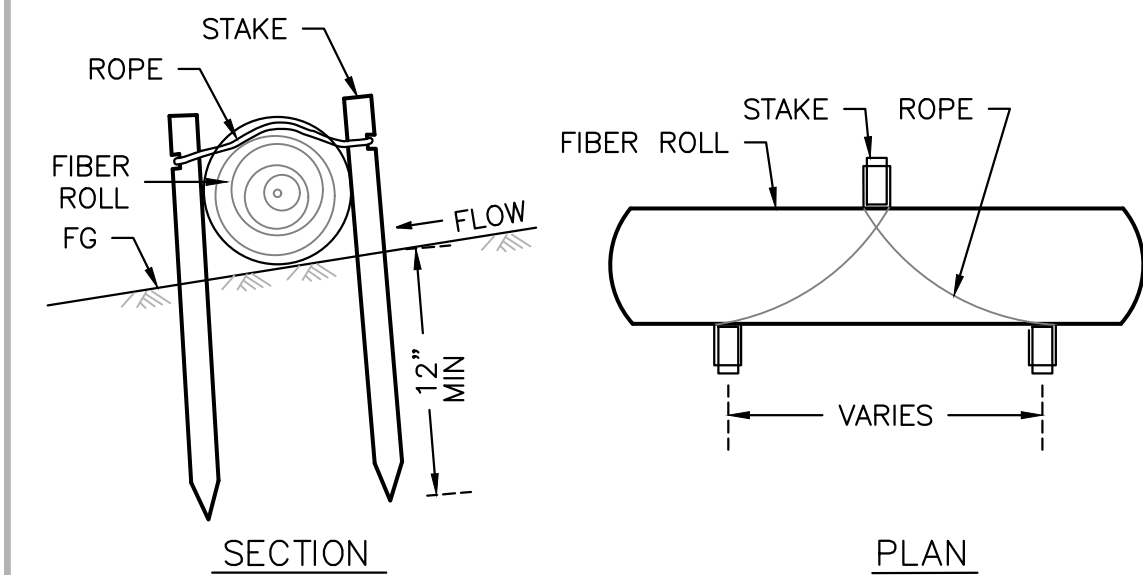


**STRAW WATTLE NOTES:**

1. STRAW WATTLES SHALL BE INSTALLED WITH 18 OR 24 INCH WOOD STAKES AT FOUR FEET ON CENTER. THE ENDS OF ADJACENT STRAW WATTLES SHALL BE ABUTTED TO EACH OTHER SNUGLY OR OVERLAPPED BY SIX INCHES.
2. STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3"-5" DEEP. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND THE ROLL.

**STRAW WATTLE INSTALLATION DETAIL**

NTS

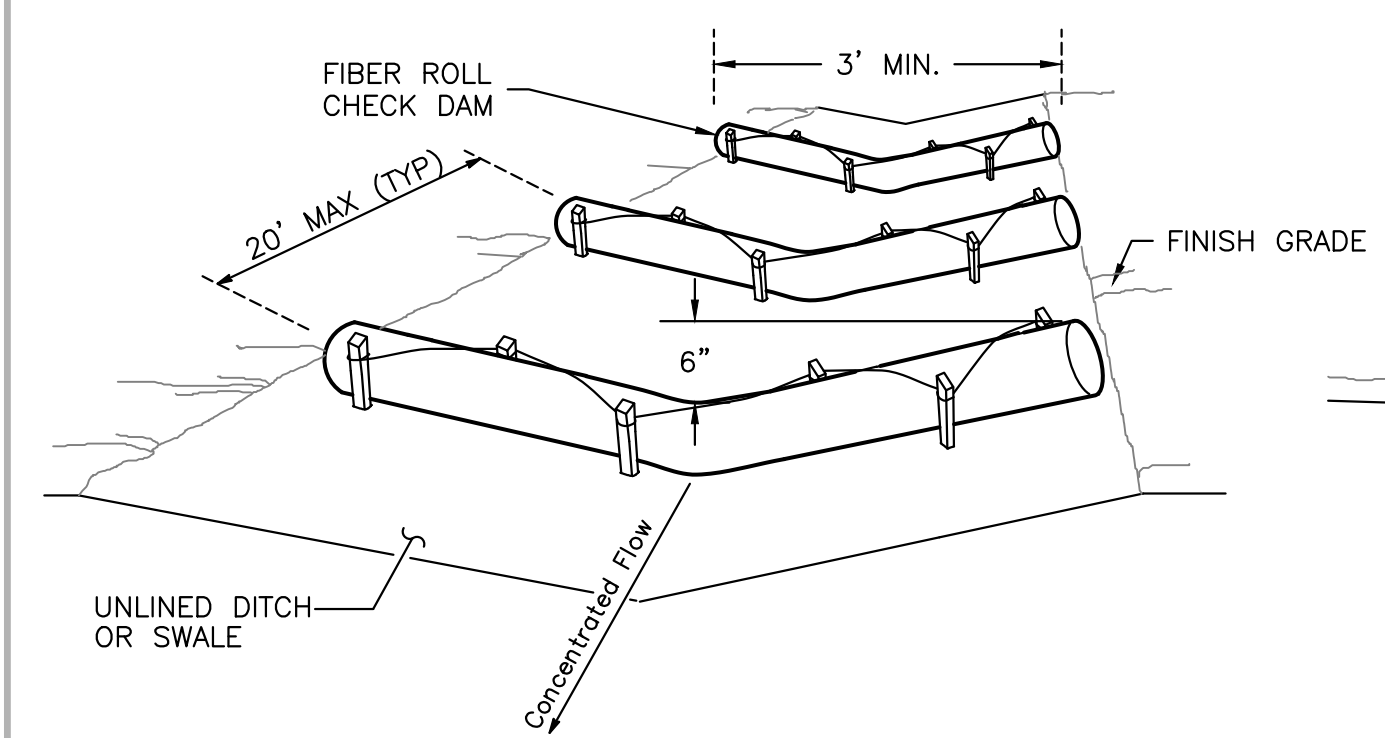


**STAKING AND LASHING DETAIL**

NTS

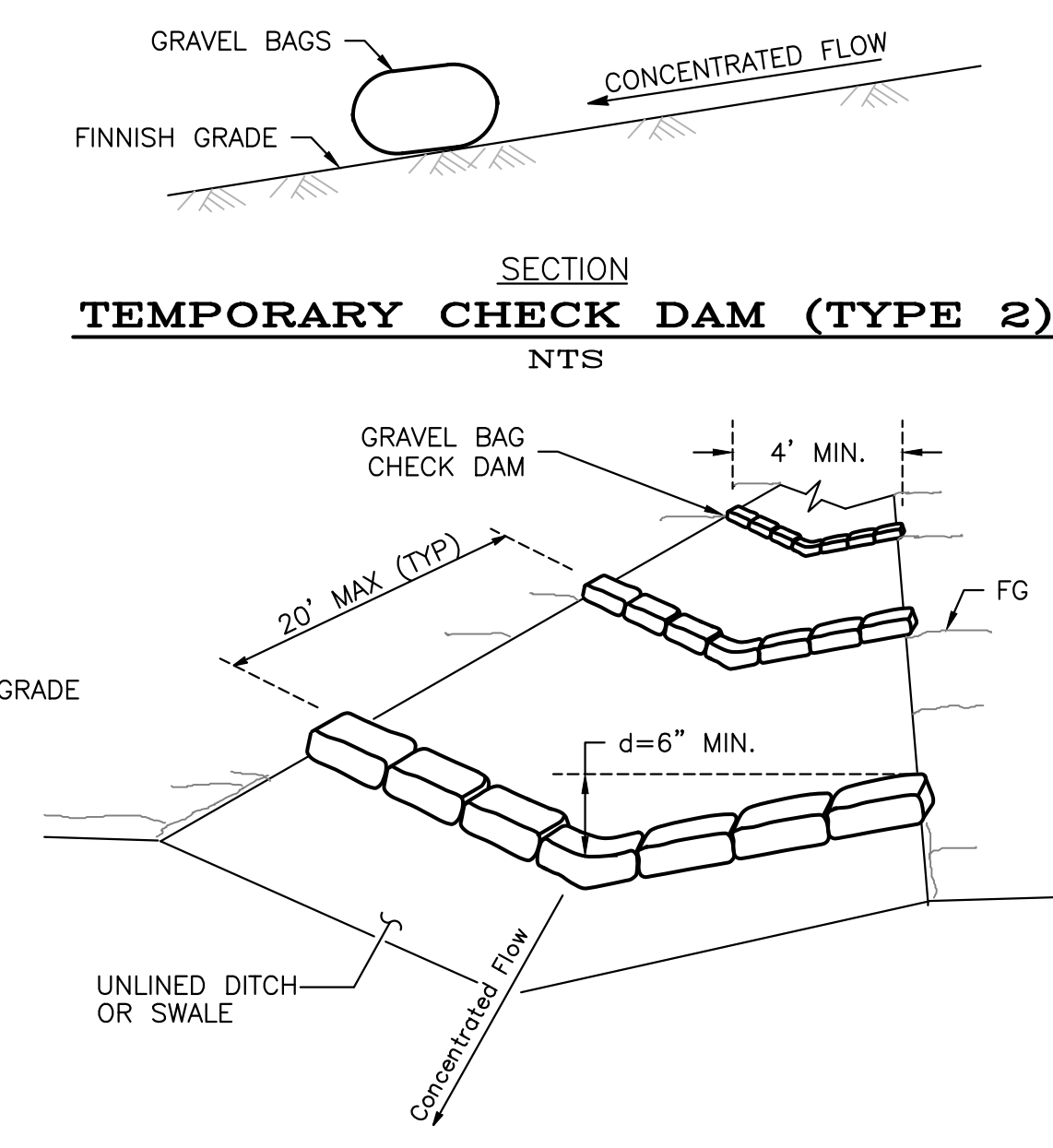
**NOTE:**

1. SPILLWAY DEPTH "D" SHALL BE MAINTAINED TO PREVENT FLANKING OF CONCENTRATED FLOW AROUND THE ENDS OF EACH CHECK DAM.



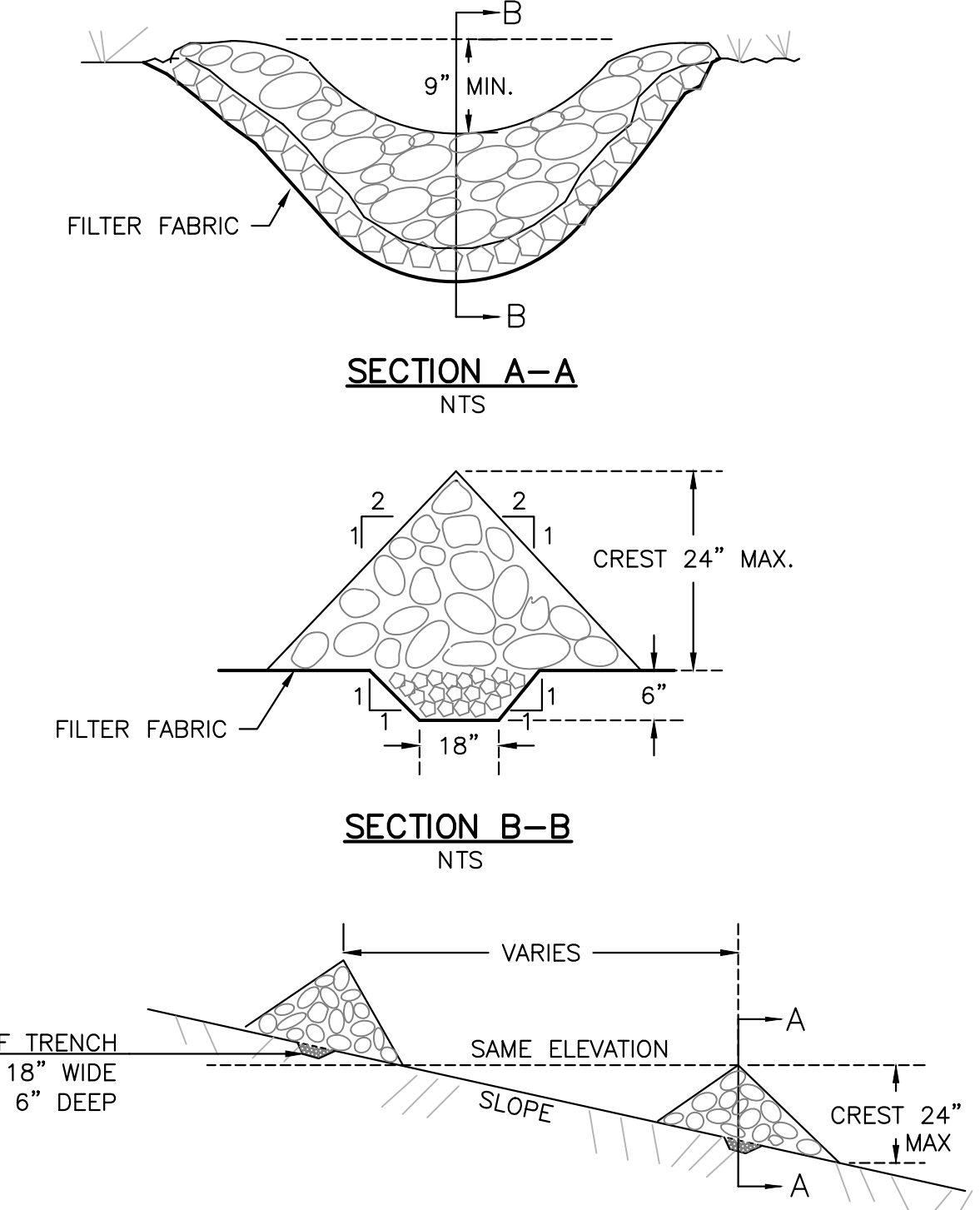
**TEMPORARY CHECK DAM (TYPE 1)**

NTS



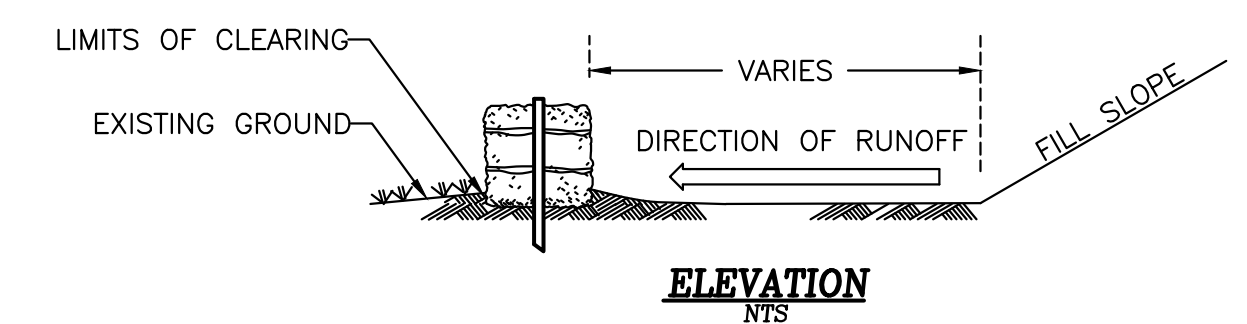
**TEMPORARY CHECK DAM (TYPE 2)**

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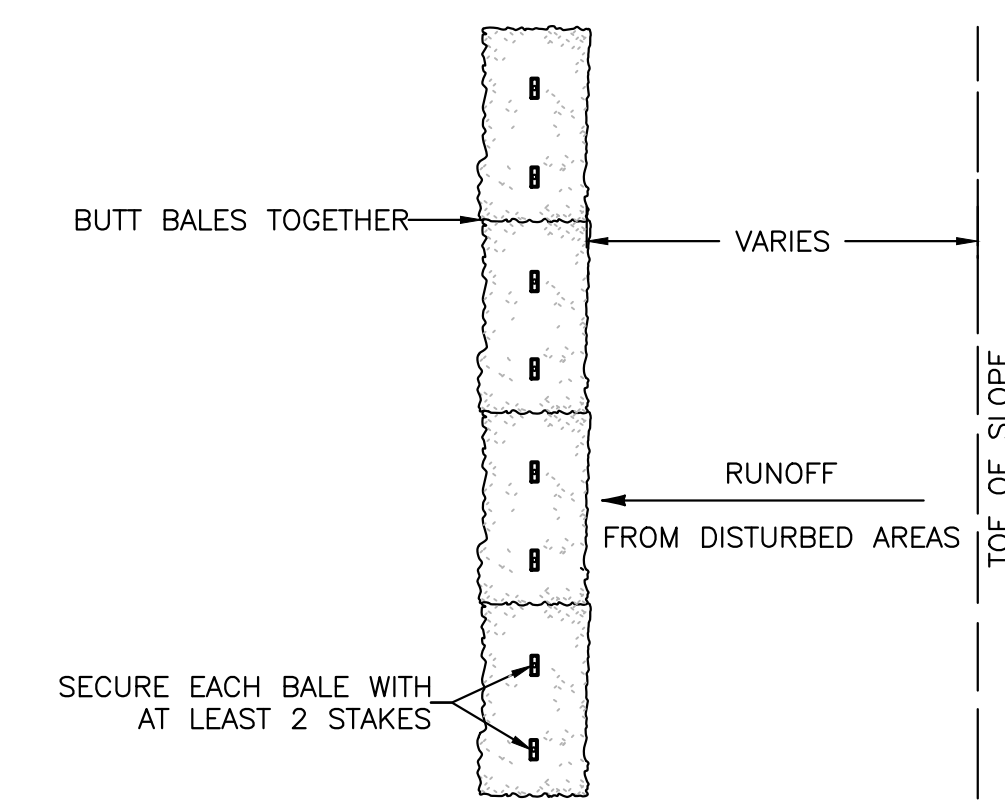
**TEMPORARY CHECK DAM (TYPE 3)**

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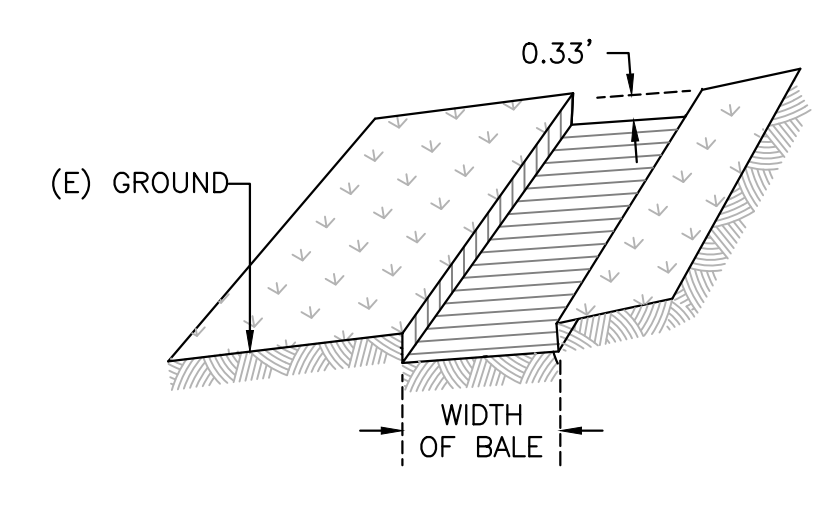
**ELEVATION**

NTS

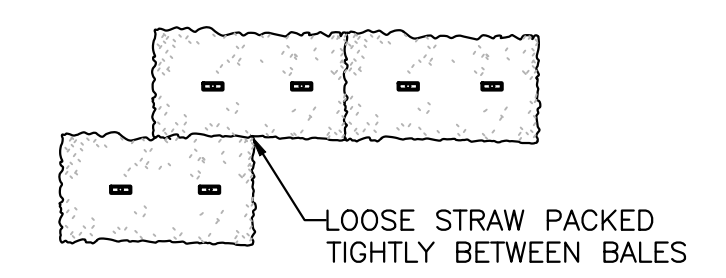


**PLAN VIEW**

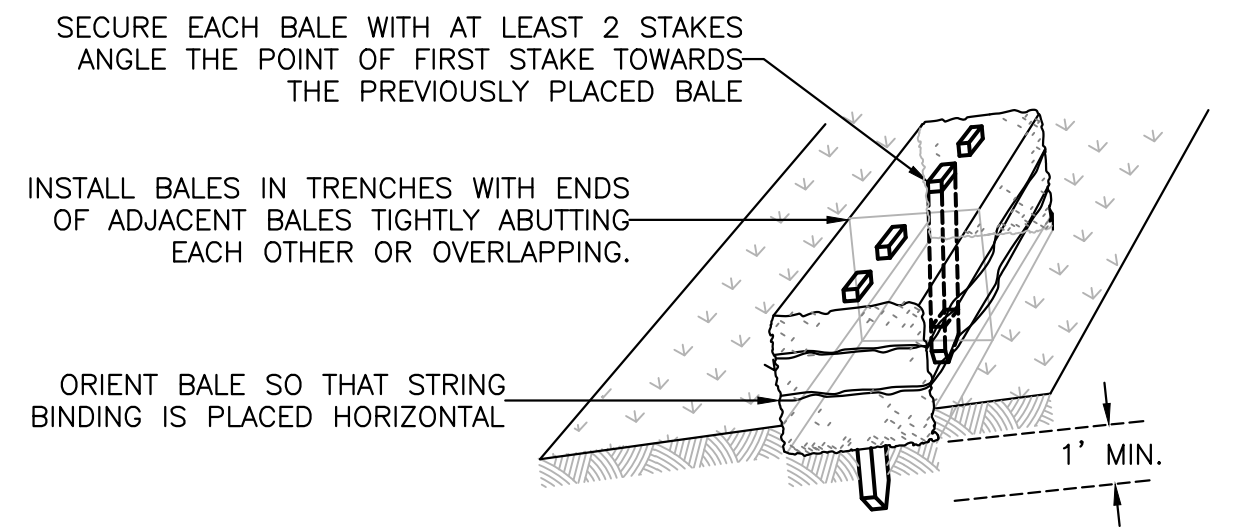
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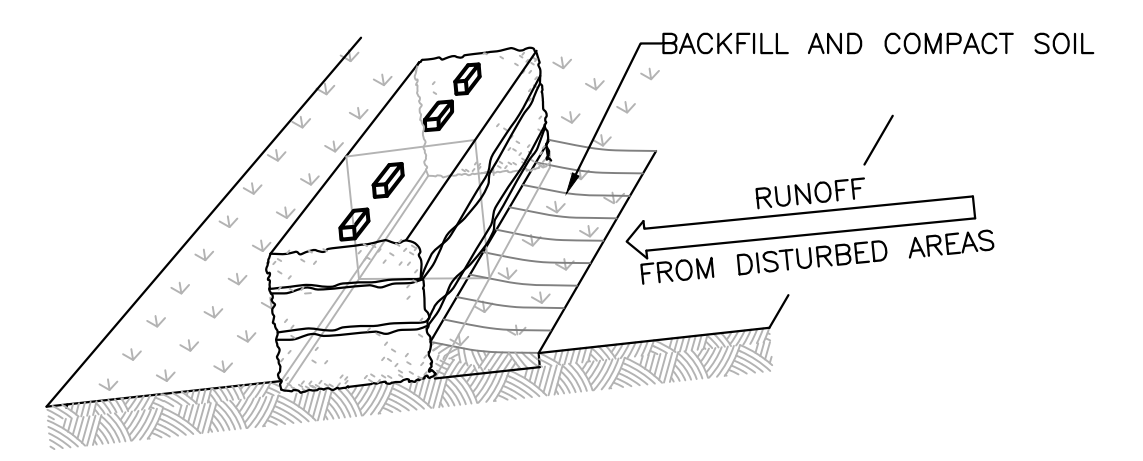
**STEP 1: EXCAVATE TRENCH**



**STEP 3: TIGHTLY PACK STRAW BETWEEN BALES**



**STEP 2: INSTALL BALES**



**STEP 4: BACKFILL SOIL AGAINST BALES**

**STRAW BALE BARRIER INSTALLATION DETAIL**

NTS

NO.	DESCRIPTION	DATE	REV

**EROSION CONTROL DETAILS 1**

VALADAO, ET AL  
 1820 PICKETT ROAD  
 MCCLINTOCK, CA 95959  
 APN 510-361-021  
 HUMBOLDT, CALIFORNIA

DATE OF ISSUE:  
 FEB 2023

SCALE:  
 AS SHOWN

PROJECT NO:  
 873.01

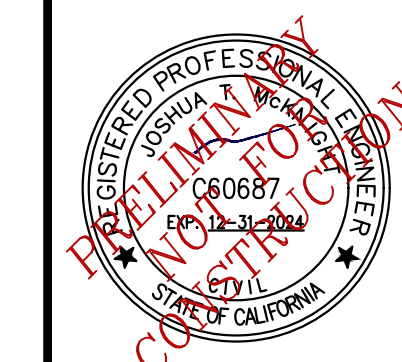
DRAWING NO:  
**C05.1**



TVCE



67 WALNUT WAY  
WILLOW CREEK, CA 95573  
P:(530)629-3000  
F:(530)629-3011



DESCRIPTION  
REV  
DATE

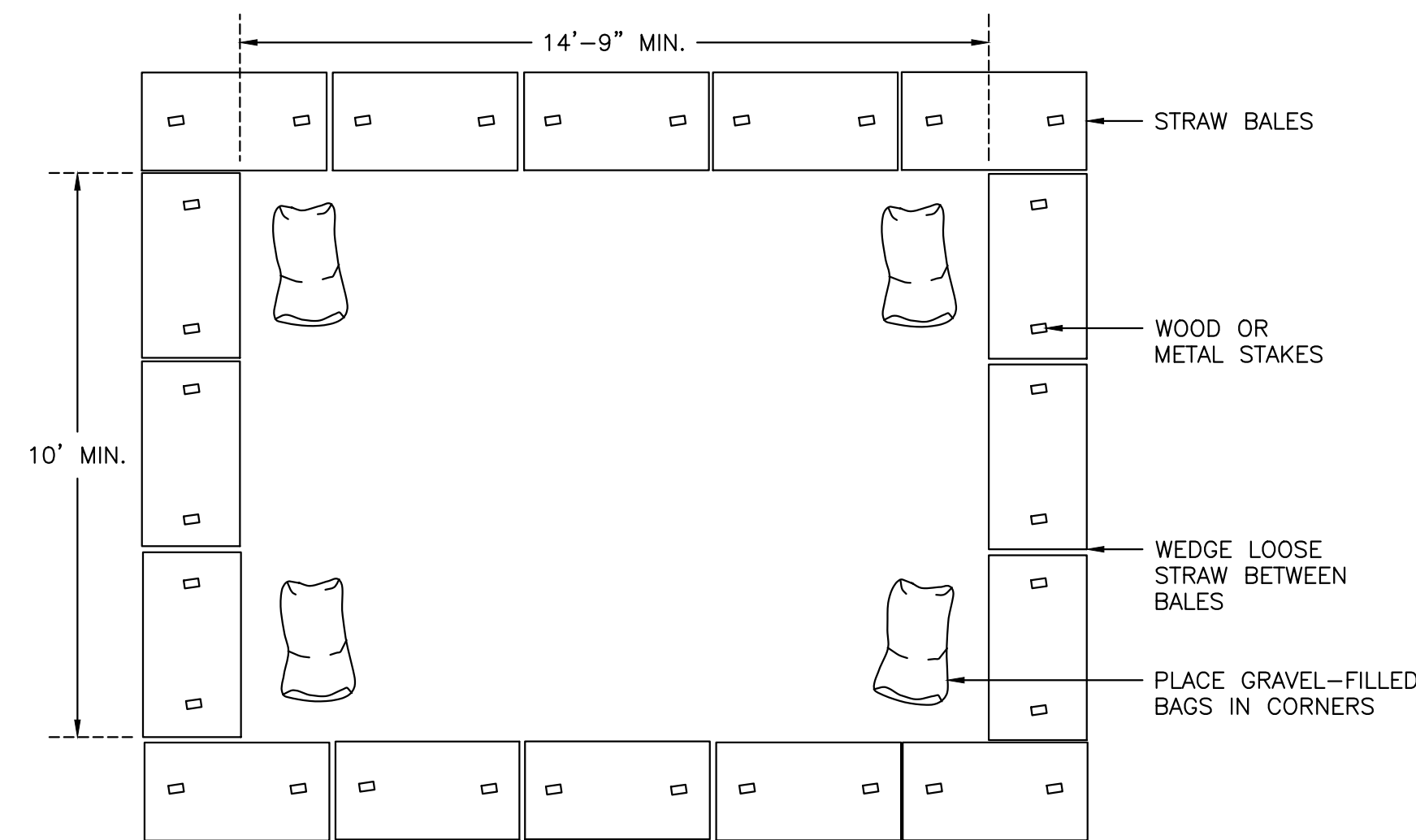
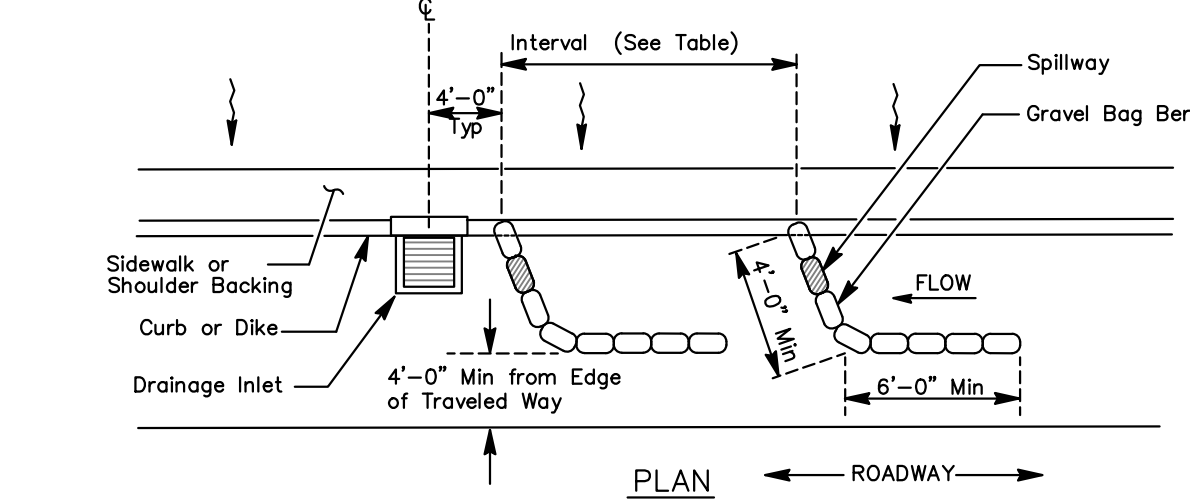
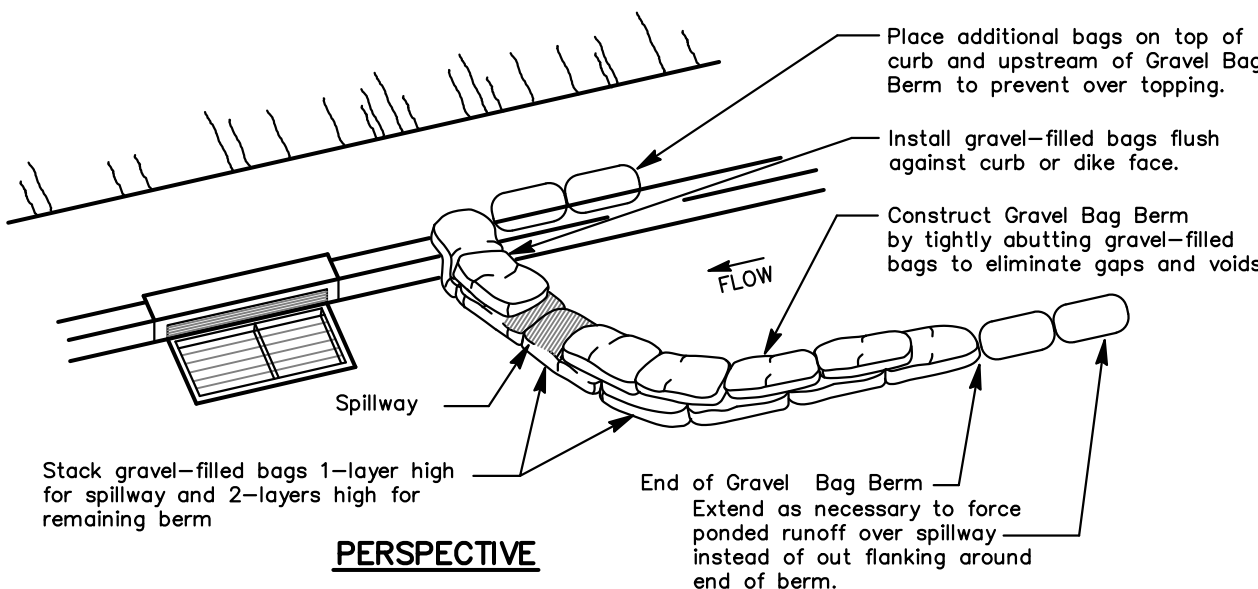
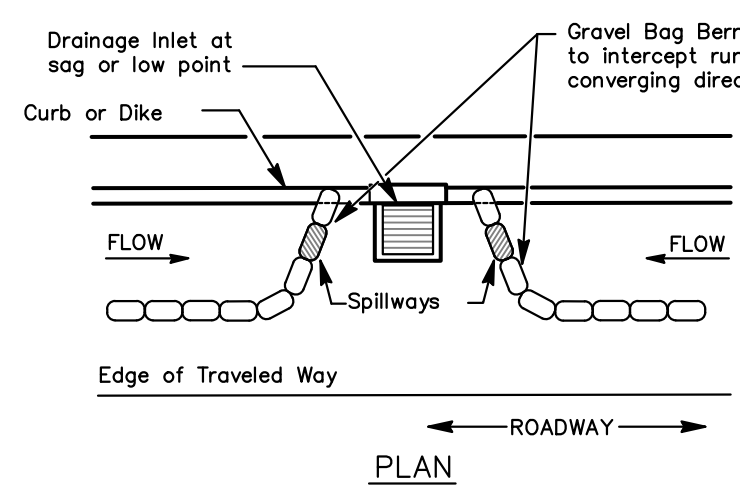
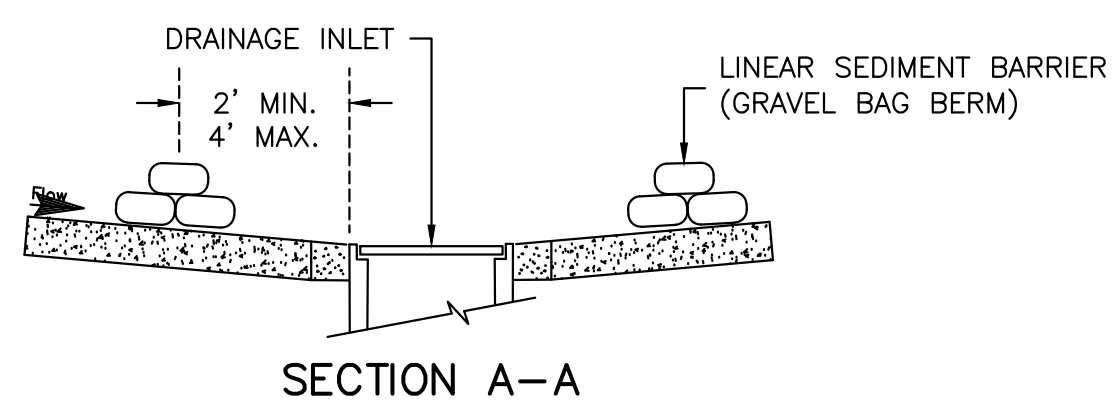
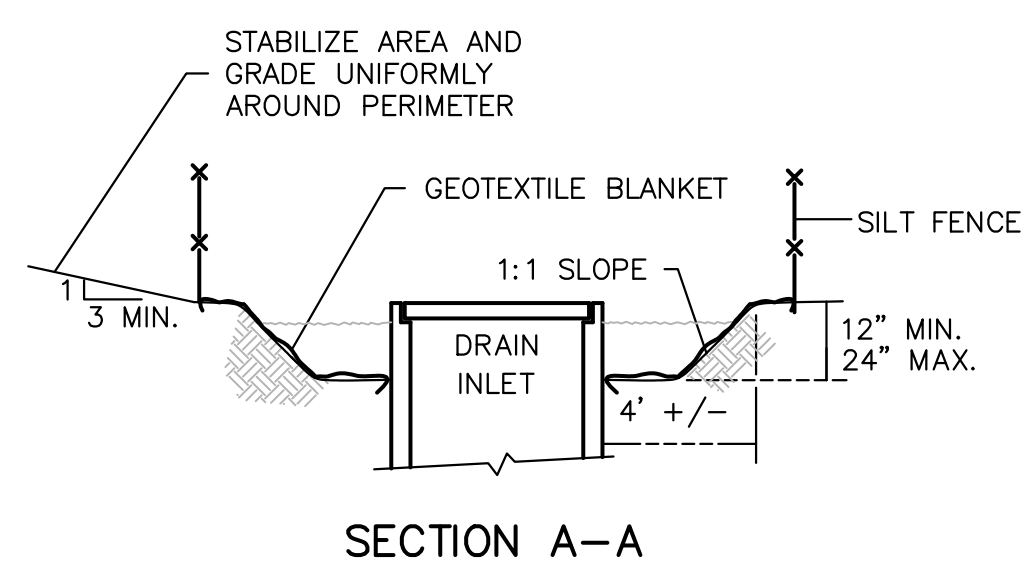
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CHK BY: JPP  
BY: [ ]  
DATE: [ ]

REVISIONS

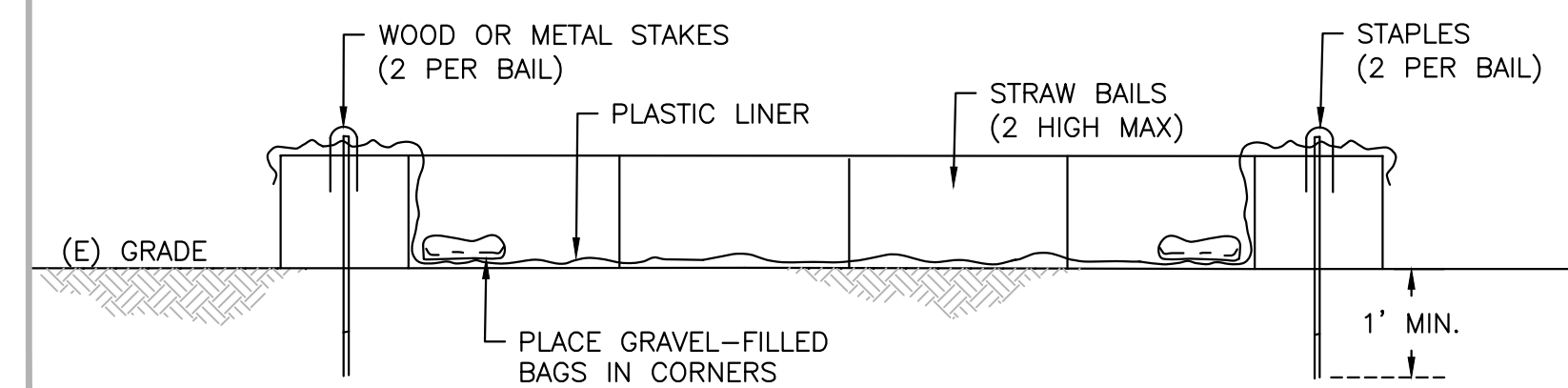
VALADAO, ET AL  
1800 PICKETT ROAD  
MCLELLAN, CA 95051  
APN 510-361-021

EROSION CONTROL DETAILS 2  
HUMBOLDT, CALIFORNIA

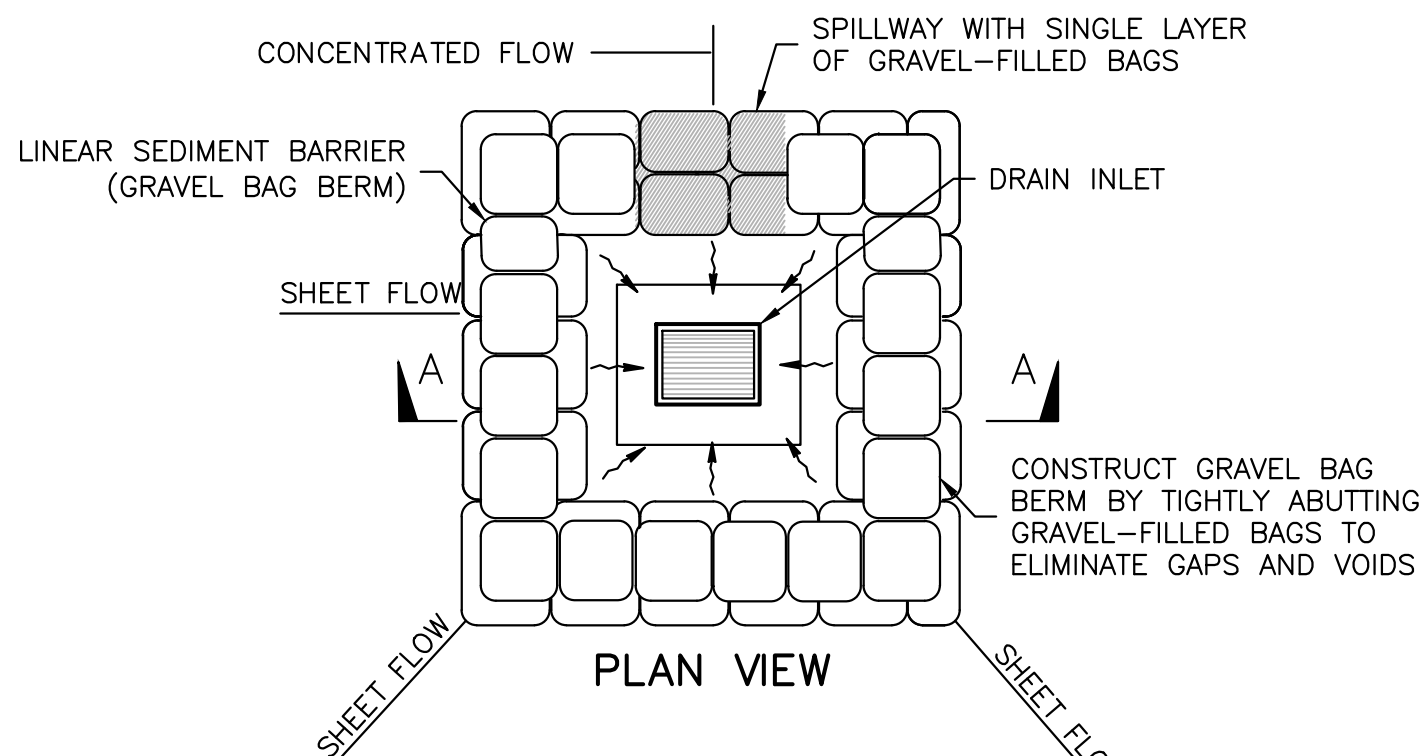
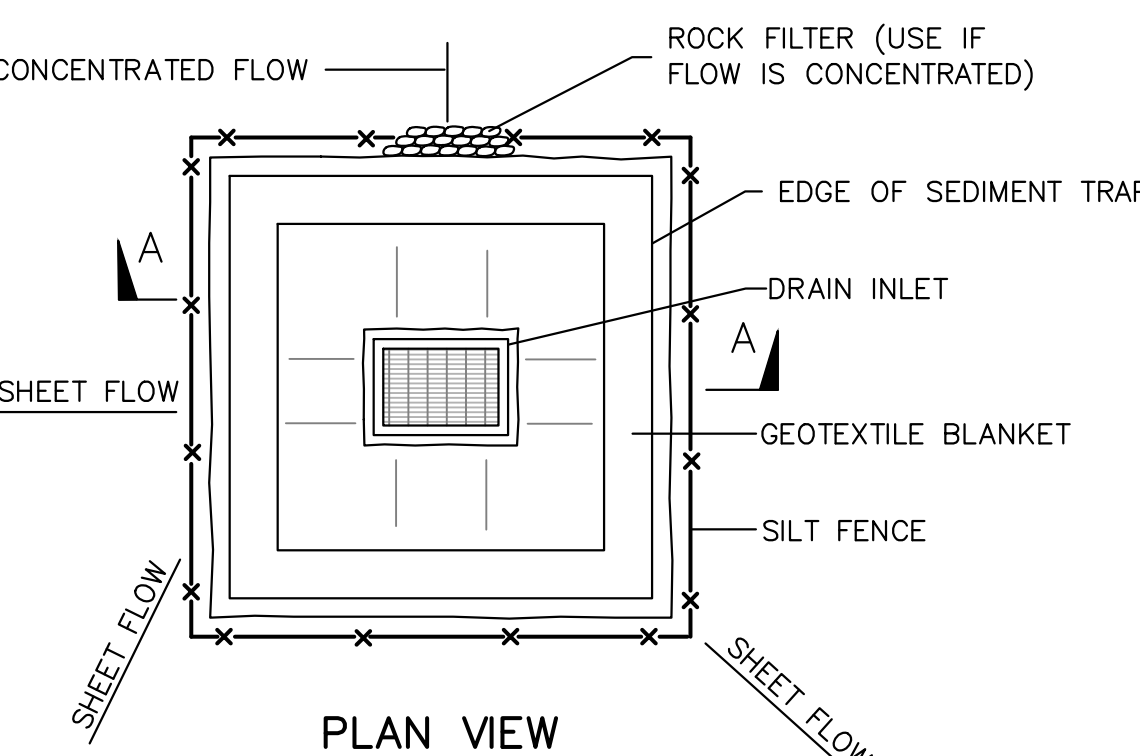
DATE OF ISSUE: FEB 2023  
SCALE: AS SHOWN  
PROJECT NO: 873.01  
DRAWING NO: C05.2



PLAN  
**TEMPORARY CONCRETE WASHOUT FACILITY**  
NTS



PROFILE  
**TEMPORARY CONCRETE WASHOUT FACILITY**  
NTS

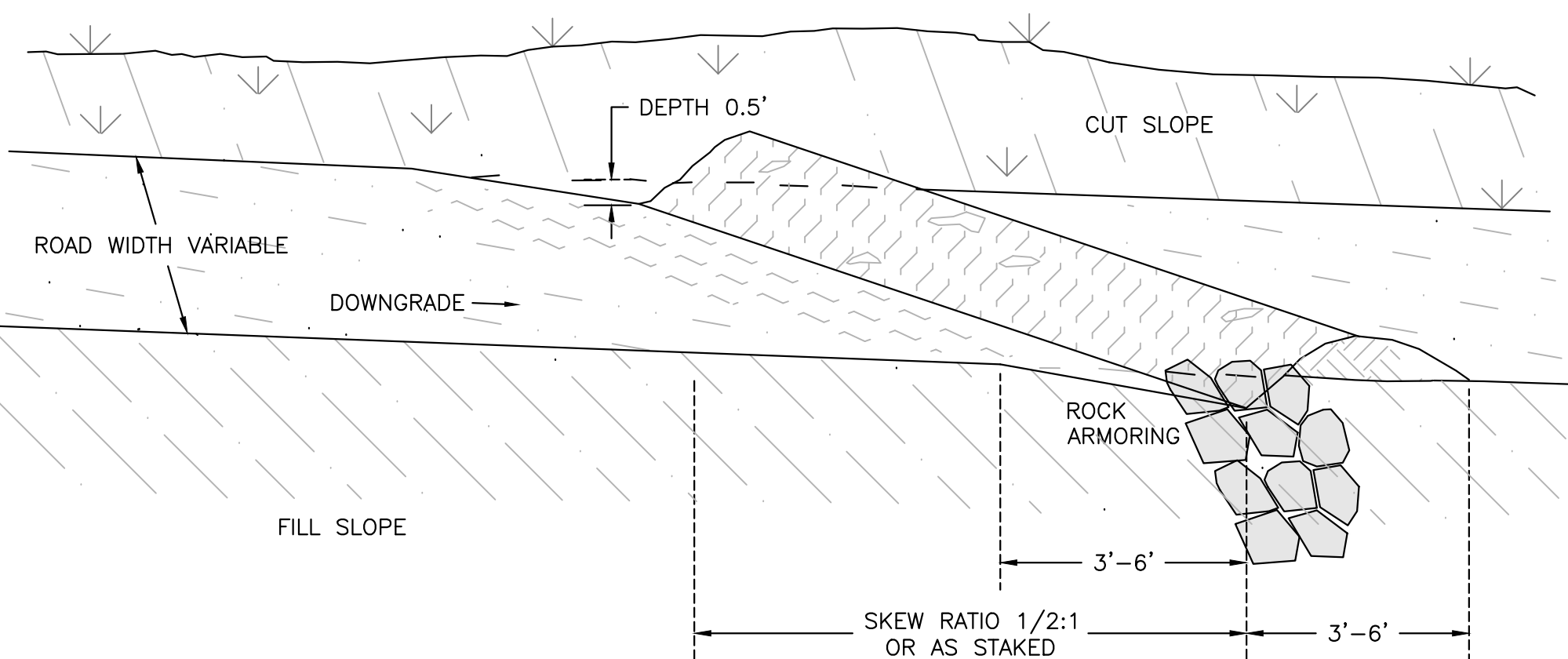


**DROP INLET PROTECTION NOTES:**

1. REMOVE SEDIMENT BEFORE REACHING ONE-THIRD FULL
2. FOR USE IN CLEARED, GRUBBED, AND GRADED AREAS.
3. SHAPE BASIN SO THAT LONGEST FLOW AREA FACES LONGEST LENGTH OF TRAP.
4. FOR CONCENTRATED FLOWS, SHAPE BASIN IN 2:1 RATIO WITH LENGTH ORIENTED TOWARDS DIRECTION OF FLOW.

**DROP INLET PROTECTION NOTES:**

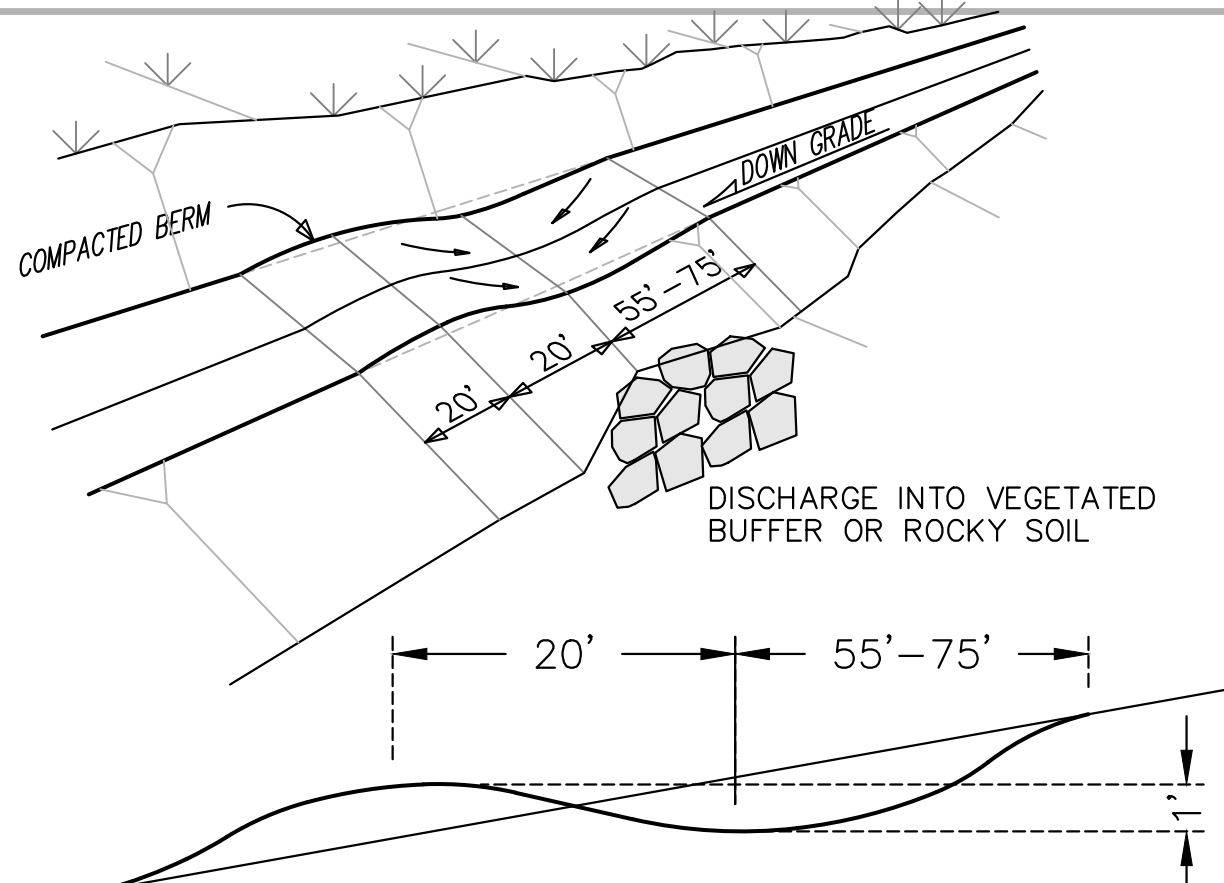
1. REMOVE SEDIMENT BEFORE REACHING ONE-THIRD FULL
2. FOR USE IN PAVED AREAS.
3. SHAPE BASIN SO THAT LONGEST FLOW AREA FACES LONGEST LENGTH OF TRAP.



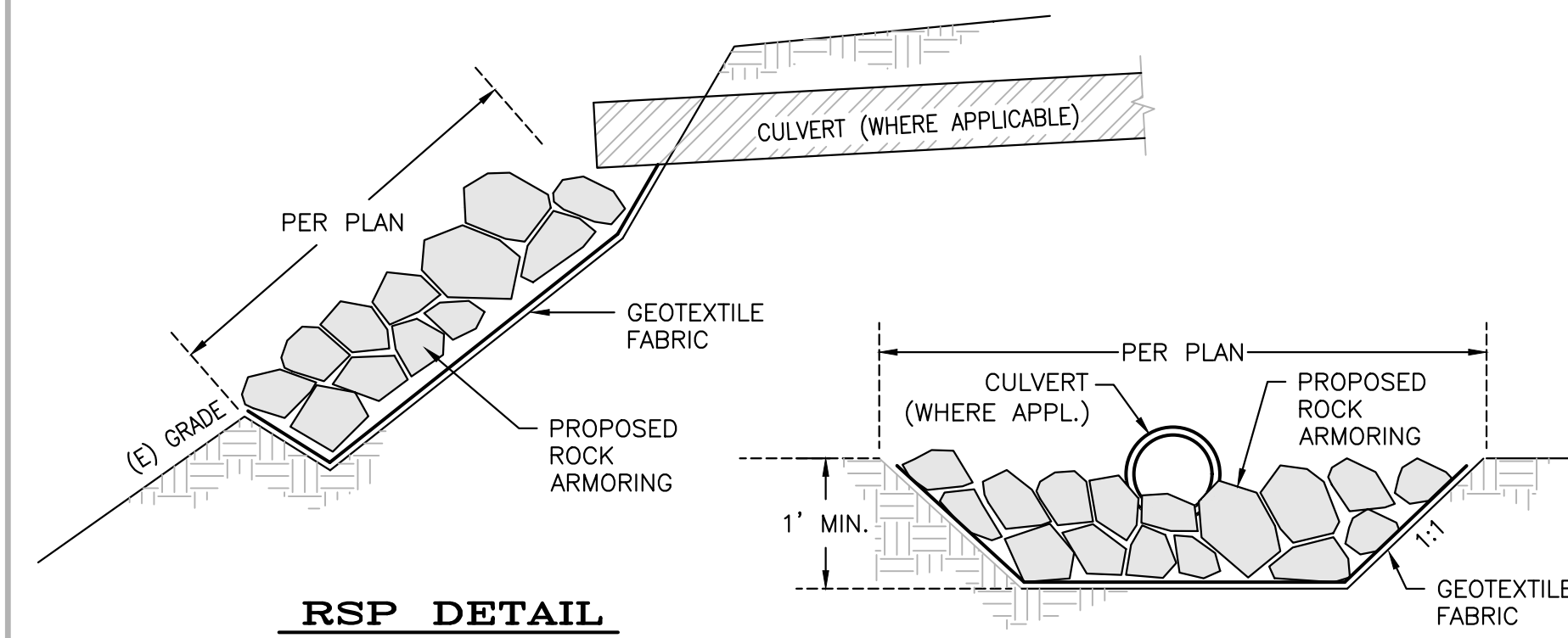
**WATER BAR DRAINAGE STRUCTURE**  
NTS

**CONSTRUCTION NOTES:**

1. LOCATE DRAINAGE STRUCTURE WHERE THEY CAN TAKE ADVANTAGE OF NATURAL DRAINAGE FEATURES AND MINIMIZE EROSION.
2. ALL DRAINAGE FEATURES SHALL BEGIN AT THE INTERSECTION OF THE ROADBED AND CUT SLOPE AND RUN ACROSS THE ENTIRE WIDTH OF THE ROADBED.
3. THE CROSS SLOPE OF DRAINAGE FEATURES SHALL BE A MINIMUM 3%-5% GRADE.
4. DRAINAGE FEATURES SHALL BE SURFACED WITH 4" OF 1-1/2" ROAD BASE.
5. ALL DRAINAGE FEATURES SHALL HAVE FREE FLOWING OUTLETS.
6. PROVIDE 1/4 TON RIP RAP ARMORING AT OUTLETS.

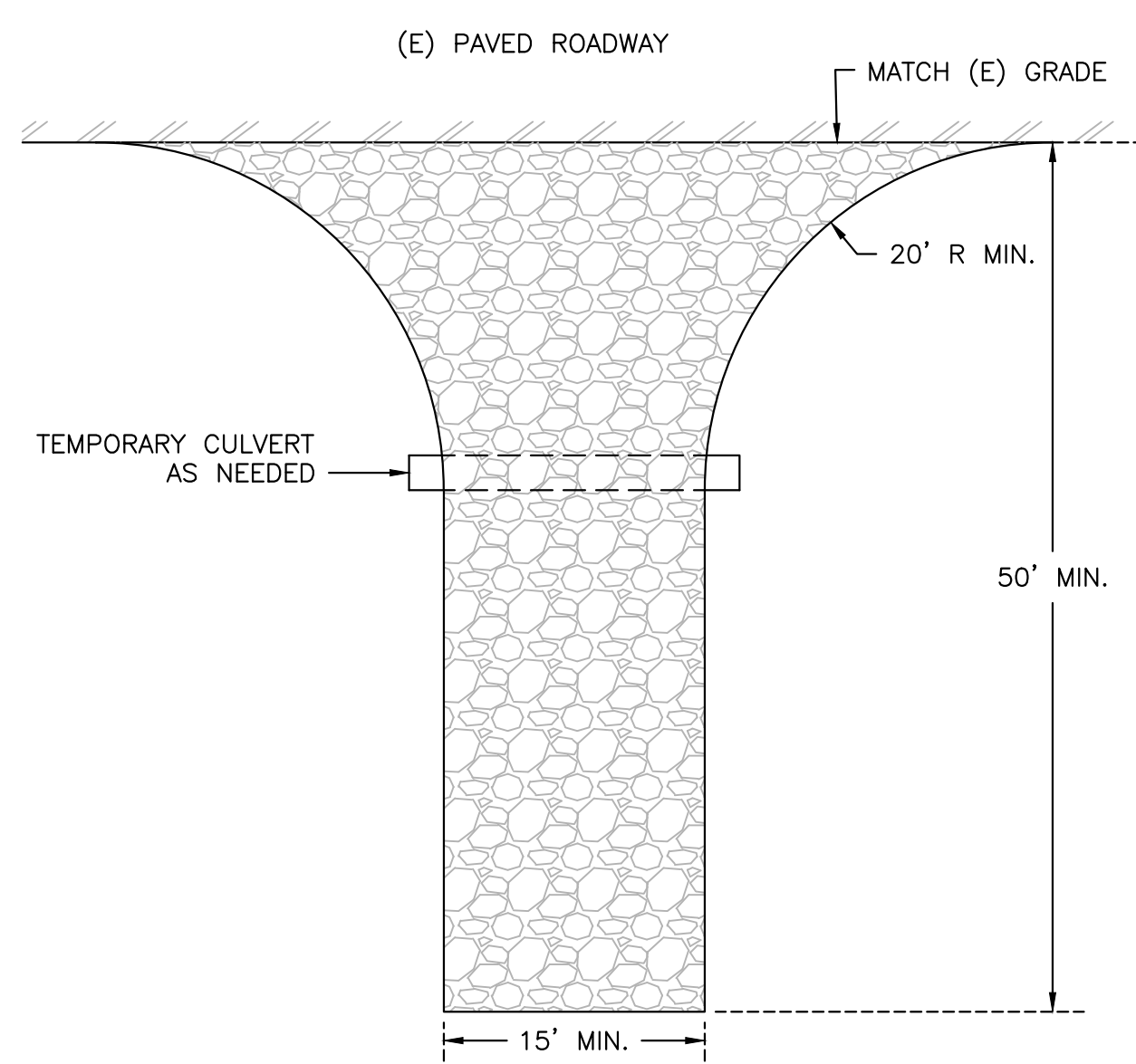


**ROLLING DIP DRAINAGE STRUCTURE**  
NTS

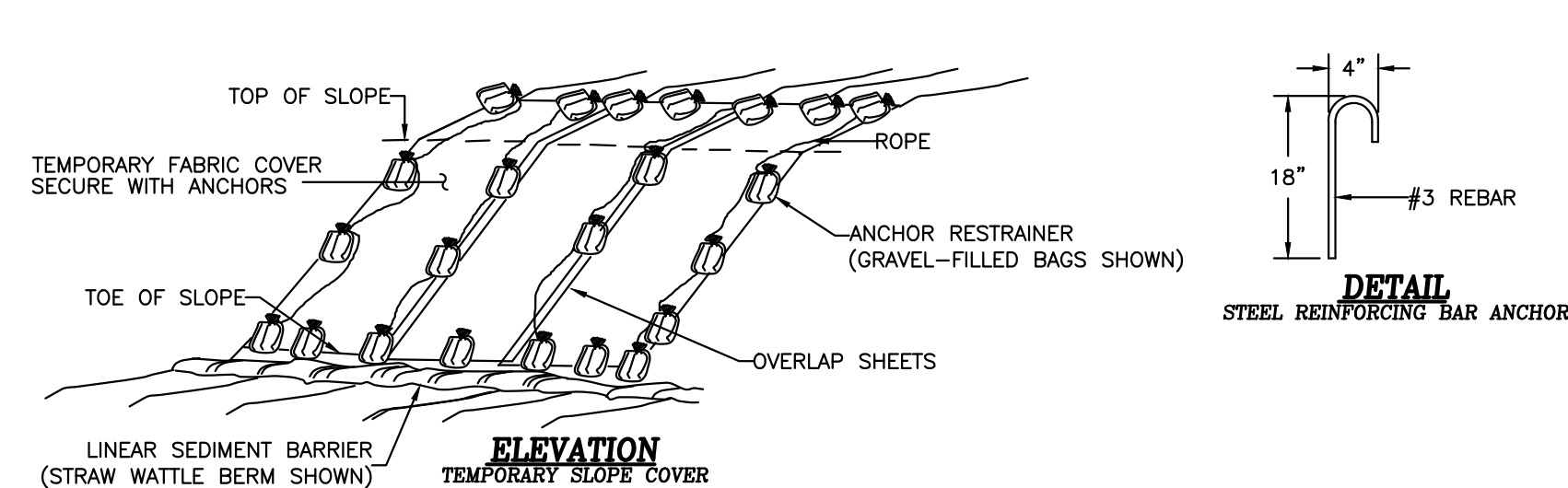


**RSP DETAIL**  
NTS

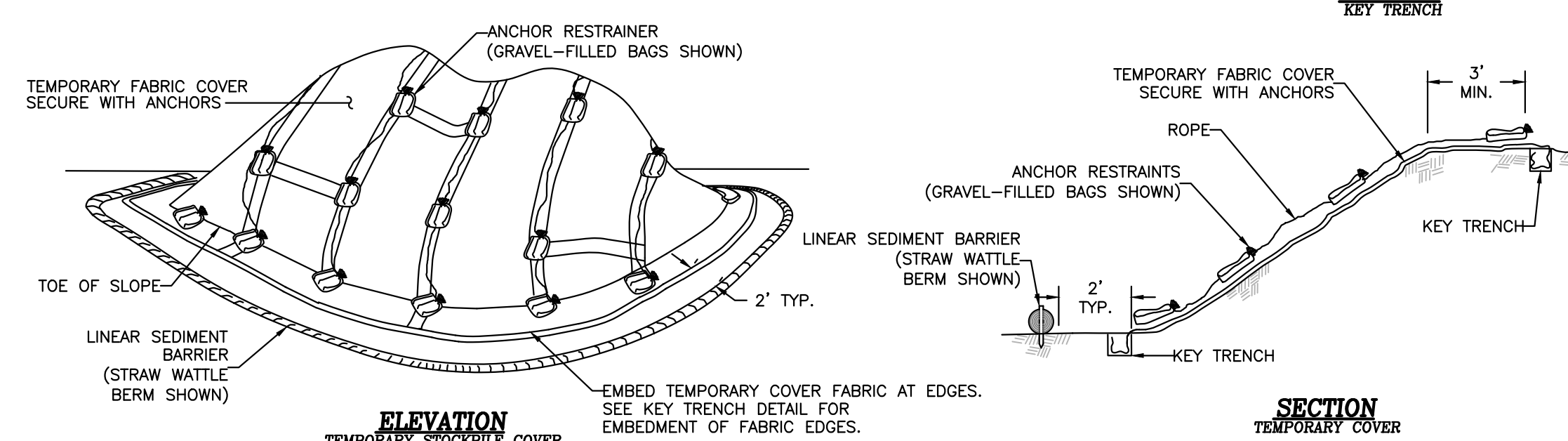
**RSP SECTION**  
NTS



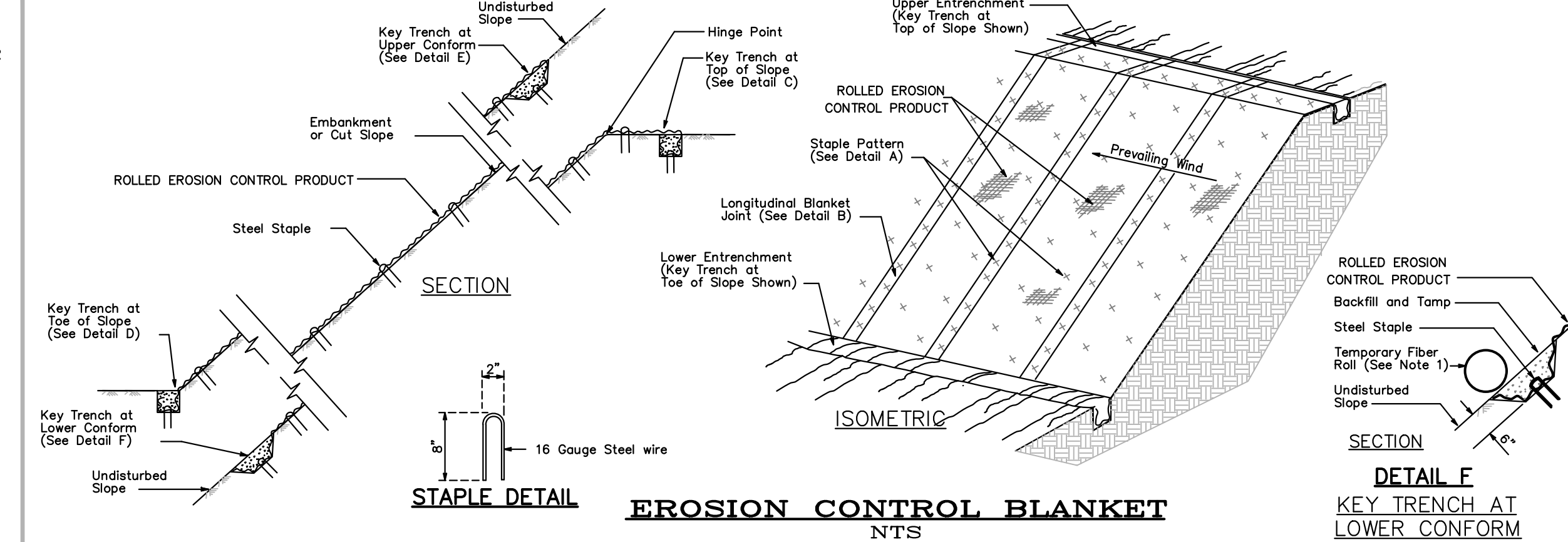
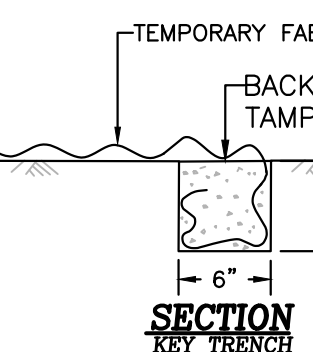
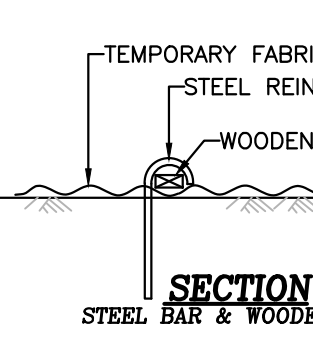
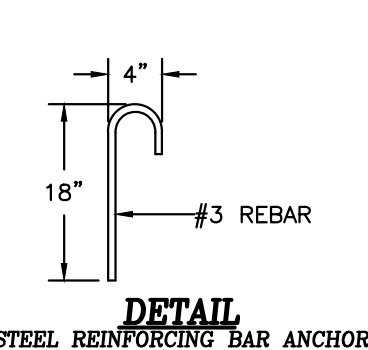
**STABILIZED CONSTRUCTION ENTRANCE**  
NTS



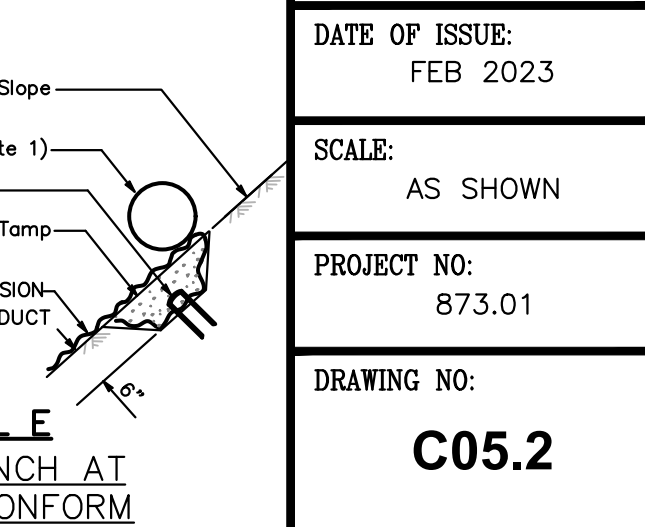
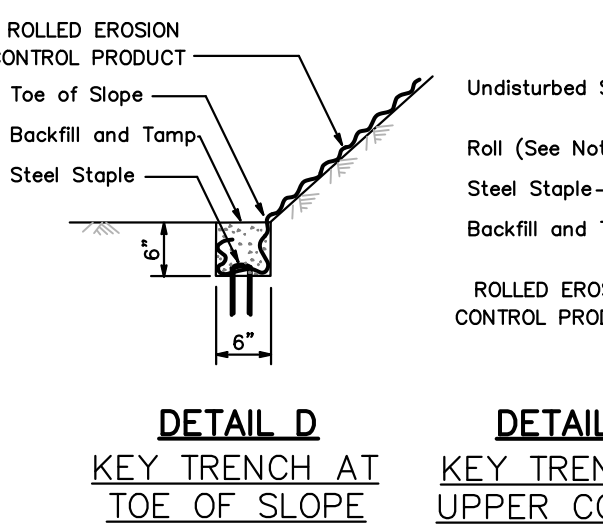
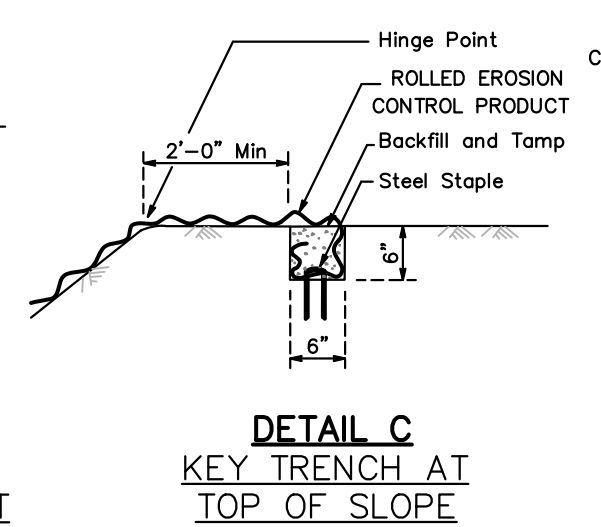
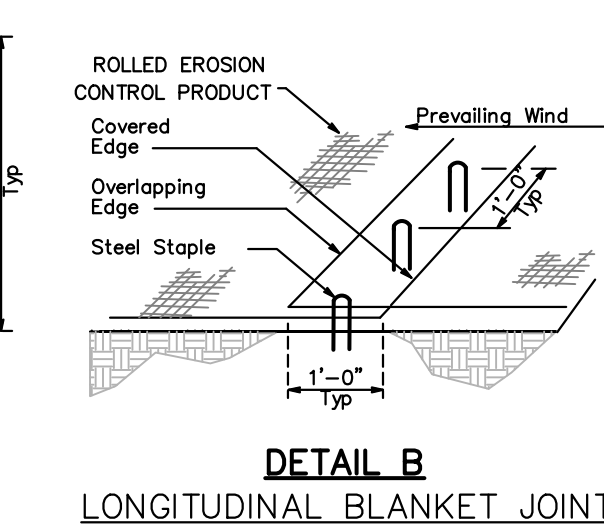
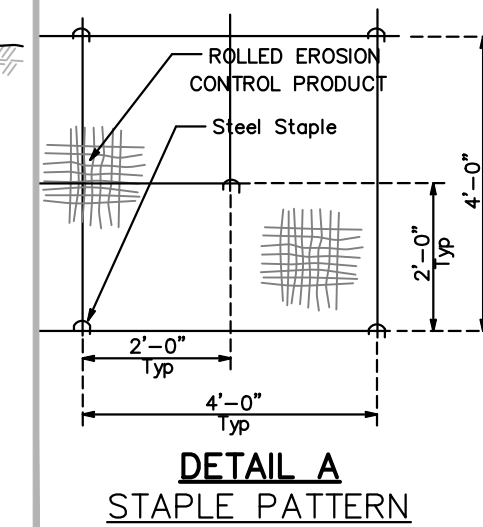
**TEMPORARY GEOTEXTILE COVERS**  
NTS



**SECTION**  
TEMPORARY COVER

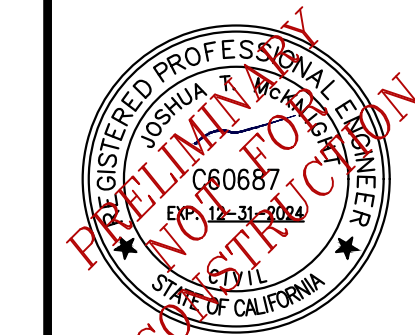


**EROSION CONTROL BLANKET**  
NTS



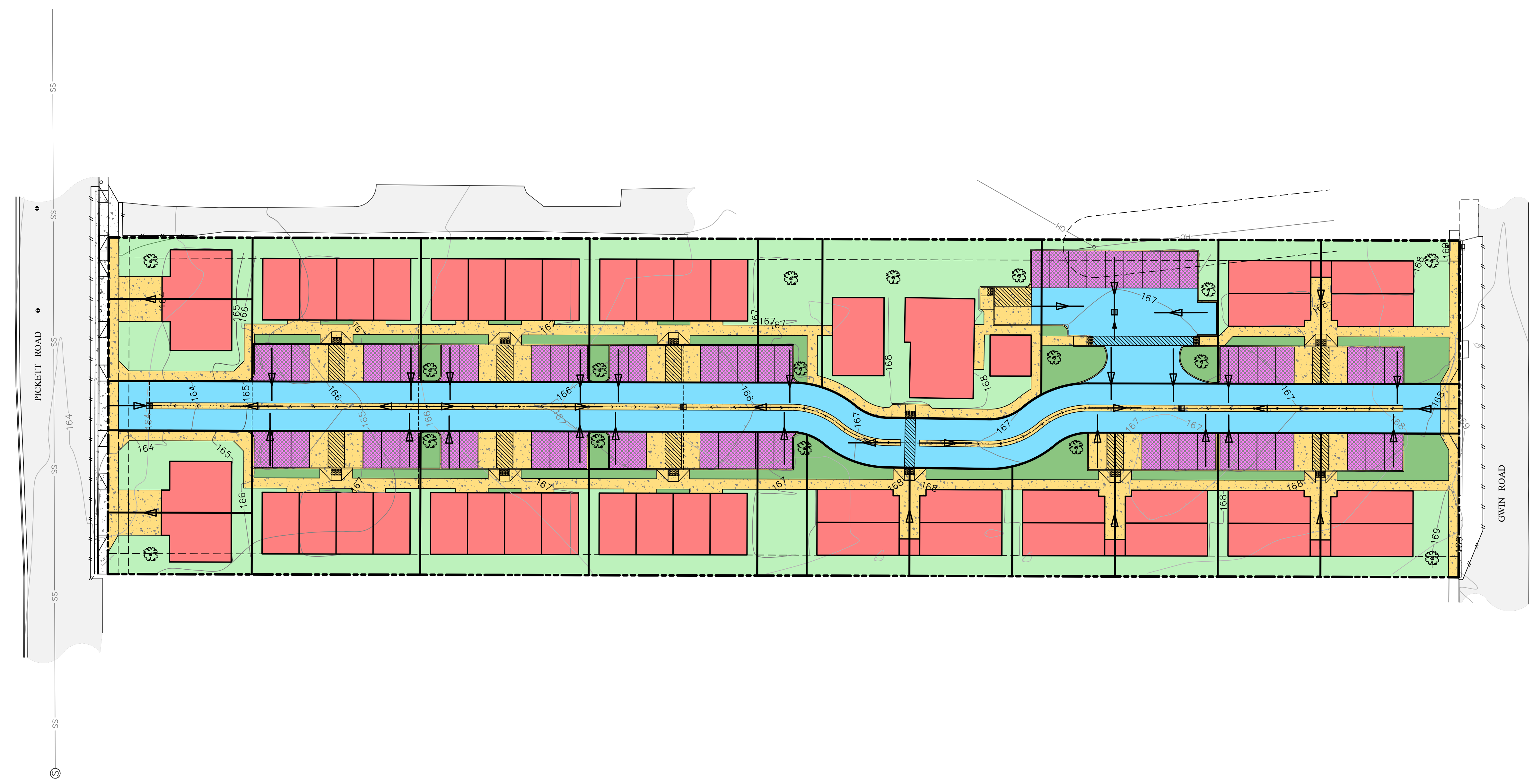


67 WALNUT WAY  
PO BOX 1587  
WILLOW CREEK, CA 95573  
P:(530)629-3000  
F:(530)629-3011



REV	DATE	DESCRIPTION	DESIGNED BY	CHECKED BY	APP. BY
12/12/23		REVISED LOT LID VALUES PER AGENCY REVIEW	NRG	EKK	EKK
					JTM

PLAN VIEW  
SCALE: 1" = 30'



**LOW IMPACT DEVELOPMENT NOTES:**

- STREAM SETBACK AND BUFFERS:**  
A STREAM SETBACK OR BUFFER IS AN AREA ALONG A SHORELINE, WETLAND, OR STREAM WHERE DEVELOPMENT IS RESTRICTED OR PROHIBITED. THE PRIMARY FUNCTION OF SETBACKS AND BUFFERS IS TO PHYSICALLY PROTECT AND SEPARATE A STREAM, LAKE OR WETLAND FROM FUTURE DISTURBANCE OR ENCROACHMENT. IF PROPERLY DESIGNED, SETBACKS AND BUFFERS CAN PROVIDE STORM WATER MANAGEMENT AND ACT AS A RIGHT-OF-WAY DURING FLOODS, SUSTAINING THE INTEGRITY OF STREAM ECOSYSTEMS AND HABITATS.
- SOIL QUALITY IMPROVEMENT**  
IN AREAS SUBJECT TO GRADING/CLEARING NOT COVERED BY IMPERVIOUS SURFACE, CREATE/AMEND PERVIOUS AREAS WITH A 12" LAYER OF TOPSOIL. SOIL QUALITY IMPROVEMENT OPTIONS INCLUDE THE FOLLOWING:  
 OPTION 1: LEAVE NATIVE VEGETATION AND SOIL UNDISTURBED AND PROTECT FROM COMPACTION DURING CONSTRUCTION IDENTIFY AREAS OF THE SITE THAT WILL NOT BE STRIPPED, LOGGED, GRADED, OR DRIVEN ON, AND FENCE OFF THOSE AREAS TO PREVENT IMPACTS DURING CONSTRUCTION. IF NEITHER SOILS NOR VEGETATION ARE DISTURBED, THESE AREAS DO NOT REQUIRE AMENDMENT.  
 OPTION 2: AMEND EXISTING SITE TOPSOIL OR SUBSOIL  
SCARIFY OR TILL SUBGRADE TO 8 INCH DEPTH (OR TO DEPTH NEEDED TO ACHIEVE A TOTAL DEPTH OF 12 INCHES OF UN-COMPACTED SOIL AFTER CALCULATED AMOUNT OF AMENDMENT IS ADDED). ENTIRE SURFACE SHOULD BE DISTURBED BY SCARIFICATION. AMEND SOIL TO MEET DESIRED ORGANIC CONTENT.  
 OPTION 3: STOCKPILE EXISTING TOPSOIL DURING GRADING. REPLACE TOPSOIL BEFORE PLANTING. STOCKPILE AND COVER SOIL WITH WEED BARRIER MATERIAL THAT SHEDS MOISTURE YET ALLOWS AIR TRANSMISSION. REPLACE STOCKPILED TOPSOIL PRIOR TO PLANTING AND ENSURE THAT REPLACED SOIL PLUS ADDITIONAL COMPOST AS NEEDED WILL AMOUNT TO AT LEAST 12 INCHES OF DEPTH.
- TREE PLANTING AND PRESERVATION**  
TREES INTERCEPT RAIN WATER ON THEIR LEAVES AND BRANCHES, ALLOWING WATER TO EVAPORATE OR RUN DOWN THE BRANCHES AND TRUNK WHERE IT READILY INFILTRATES INTO THE SOIL. TREE ROOTS ALSO INCREASE INFILTRATION OF THE SOIL.
- ROOFTOP AND IMPERVIOUS AREA DISCONNECTION**  
DISCONNECTION OF ROOFTOP AND IMPERVIOUS AREAS FROM THE STORM DRAIN SYSTEM HELPS REDUCE RUNOFF AND PROVIDE POLLUTANT REMOVAL AS THE RE-DIRECTED WATER TRAVELS OVER AND THROUGH VEGETATION AND SOIL INSTEAD OF BEING DIRECTLY PIPED AND DISCHARGED INTO THE STORM DRAIN. ROOF RUNOFF IS DIRECTED TO SPREAD OVER A PERVIOUS AREAS SUCH AS A STREAM SETBACK AND BUFFERS, AREAS OF SOIL QUALITY IMPROVEMENT, OR OTHER APPROPRIATE INFILTRATION AREAS.
- POROUS PAVEMENT**  
THIS OPTION CAN BE EASY TO INSTALL AND MAINTAIN, COST EFFECTIVE, AND CAN ADD AESTHETIC VALUE TO YOUR PROJECT. PERMEABLE PAVEMENTS MAY INCLUDE PERVIOUS CONCRETE, PERVIOUS ASPHALT, POROUS PAVERS, CRUSHED AGGREGATE, OPEN PAVERS WITH GRASS OR PLANTINGS, OPEN PAVERS WITH GRAVEL, OR SOLID PAVERS.
- GREEN ROOFS**  
A GREEN ROOF IS A MULTI-LAYERED, VEGETATED ROOFTOP SYSTEM DESIGN FOR FILTERING, ABSORBING, AND RETAINING STORM WATER. A GREEN ROOF CAPTURES STORM WATER WITHIN THE PORE SPACE OF THE GROWTH MEDIUM AND THEN RELEASES THE WATER SLOWLY VIA EVAPORATION, TRANSPIRATION, AND DISCHARGE TO THE ROOF DRAINS.
- VEGETATED SWALES**  
A VEGETATED SWALE IS A BROAD, SHALLOW CHANNEL WITH DENSE VEGETATION COVERING THE BOTTOM AND SIDE SLOPES. VEGETATION IN THE CHANNEL PROVIDES FILTRATION AND SOLIDS REMOVAL AND REDUCES FLOW VELOCITIES AS STORM WATER IS CONVEYED THROUGH THE SYSTEM. DEPENDING ON SOIL TYPE, SOME INFILTRATION MAY ALSO OCCUR, DECREASING RUNOFF VOLUME AND PROVIDING ADDITIONAL FILTRATION.
- RAIN BARRELS AND CISTERNS**  
RAIN BARRELS AND CISTERNS ARE A SYSTEM THAT COLLECTS AND STORES STORM WATER RUNOFF FROM A ROOF OR OTHER IMPERVIOUS SURFACE. THESE TYPICALLY HAVE OVERFLOW MECHANISMS OR PLUGS THAT DRAIN TO A VEGETATED AREA OR TO THE STORM DRAIN SYSTEM WHEN THE BARREL IS FULL.

**DOWNSPOUTS:**

- DIRECT DOWNSPOUT RAINWATER AWAY FROM BUILDING TO PREVENT SATURATION OF FOUNDATION.
- PROVIDE SPLASH BLOCKS OR OTHER MEANS TO PREVENT SOIL EROSION.
- DOWNSPOUT RAINWATER SHALL NOT DISCHARGE ONTO A SIDEWALK. CONTRACTOR TO PROVIDE UNDER-WALK DRAINS IN THESE AREAS.

ON-SITE LID LEGEND		
	IMPERVIOUS ASPHALT	16,733 SF
	IMPERVIOUS CONCRETE	19,139 SF
	IMPERVIOUS ROOF SURFACING	29,484 SF
	PERMEABLE ASPHALT	10,236 SF
	PERVIOUS LANDSCAPING	25,163 SF
	SELF RETAINING AREA	6,985 SF
	ROOF DRAIN	
	TREE	17 EA
IMPERVIOUS SURFACE TOTALS:		65,356 SF
PERVIOUS SURFACE TOTALS:		42,384 SF

VALADAO, ET AL  
1800 PICKETT ROAD  
MCADAMVILLE, CA 95519  
APN 510-381-021  
**LID PLAN**  
HUMBOLDT, CALIFORNIA

DATE OF ISSUE:  
FEB 2023  
SCALE:  
1" = 30'  
PROJECT NO:  
873.01  
DRAWING NO:  
**L1.0**