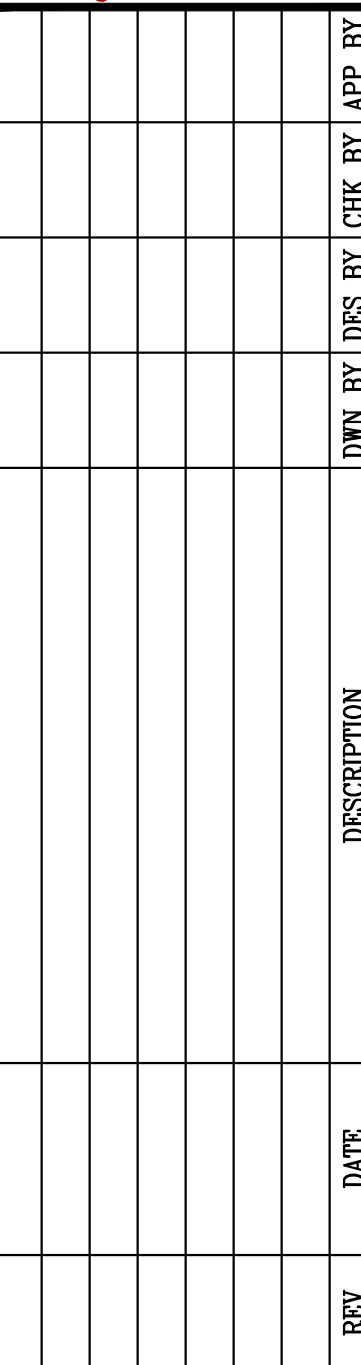
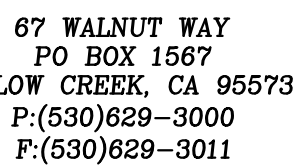




TITLE SHEET

HUMBOLDT, CALIFORNIA



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 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.

AC	=	ASPHALTIC CONCRETE
AB	=	AGGREGATE BASE
A.D.	=	ALGEBRAIC DIFFERENCE
B.C. PC	=	BEGIN CURVE
CO	=	CLEAN OUT
CL	=	CENTER LINE
CMF	=	CORRUGATED METAL PIPE
CPCT.	=	CONTACT
D	=	DELTA
DET	=	DETAIL
DRN	=	DRAIN
<A>	=	EXISTING
EC	=	END CURVE
EG	=	EXISTING GROUND
EP	=	EDGE OF PAVEMENT
FF	=	FINISH FLOOR
FG	=	FINISH GRADE
FIH	=	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.	=	LOAD DEPRESSION
LF.	=	LINEAR FEET
LF.	=	SEWER LEACH FIELD
LT.	=	LEFT
MAS.	=	MASONRY
MI	=	MILES
MSE	=	MECHANICALLY STABILIZED EARTH
(N)	=	NEW
N	=	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
TB	=	TOP OF BANK
TEL	=	TELEPHONE
TP	=	TOP OF PAVEMENT
TVCE	=	TRINITY VALLEY CONSULTING ENGINEERS
W	=	TOP OF WALL
(TYP)	=	TYPICAL
UG	=	UNDERGROUND
W	=	WATER
WV	=	WATER VALVE



The diagram illustrates the placement of section and detail numbers on technical drawings. It consists of two parts: a section symbol and a detail symbol.

Section Symbol: A circle divided into four quadrants. The top quadrant is labeled "TOP". The bottom-left quadrant is labeled "LI" and the bottom-right quadrant is labeled "RI". A horizontal line passes through the center of the circle. Above the circle, the text "SECTION LETTER" is shown with a line pointing to the top of the circle. Below the circle, the text "DRAWING NUMBER ON WHICH SECTION IS CUT" is shown with a line pointing to the bottom-left quadrant. To the right of the circle, the text "DRAWING NUMBER ON WHICH SECTION APPEARS" is shown with a line pointing to the bottom-right quadrant.

Detail Symbol: A circle divided into four quadrants. The top quadrant is labeled "TOP". The bottom-left quadrant is labeled "LI" and the bottom-right quadrant is labeled "RI". Above the circle, the text "DETAIL NUMBER" is shown with a line pointing to the top of the circle. Below the circle, the text "DRAWING NUMBER ON WHICH DETAIL IS REFERENCED" is shown with a line pointing to the bottom-left quadrant. To the right of the circle, the text "DRAWING NUMBER ON WHICH DETAIL APPEARS" is shown with a line pointing to the bottom-right quadrant.

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

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

[illegible]

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

NOTES

HUMBOLDT, CALIFORNIA

- 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, TWICE 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.

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.

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.

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 20-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.

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.

1. ASPHALT CONCRETE SHALL BE 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.

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.

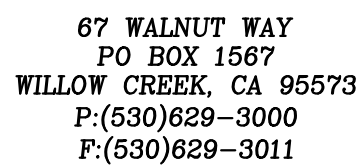
1. ALL COMMUNICATIONS FACILITIES AND WORK TO BE IN STRICT COMPLIANCE WITH APPLICABLE LAWS AND MUST MEET ALL FRONTIER REQUIREMENTS AS APPLICABLE UNDER CPUC.
2. CONTRACTOR TO COORDINATE WITH FRONTIER FOR ALL REQUIRED TESTING/INSPECTION AND FOR FRONTIER INSTALLED FACILITIES.
3. OWNER HAS THE RESPONSIBILITY 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.

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 OR MATERIALS OTHER THAN WATER WILL BE USED ON THE 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.

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.

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.

ITEM	DESCRIPTION	PLAN QUANTITY TOTAL	UNIT
001	TEMPORARY FACILITIES	1	LS
002			
003			
004			
005			
006			
007			
008			
009			
010			
011			
012			
013			
014			
015			
016			
017			
018			
019			
020			
021			
022			
023			
024			
025			

[illegible]

EXISTING CONDITIONS

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

HUMBOLDT, CALIFORNIA

DRAWING NO:
C2.0

1. THIS TENTATIVE MAP PROPOSES THE SUBDIVISION OF AN EXISTING 2.47 ACRE PARCEL INTO 18 LOTS.
2. WATER AND SEWER SERVICES ARE AVAILABLE FROM MCKINLEYVILLE COMMUNITY SERVICES DISTRICT (MCS.D).
3. CONTOUR INTERVAL: 5 FOOT CONTOURS ARE BASED ON A FIELD SURVEY. THE DATA IS MCKINLEYVILLE COMMUNITY SERVICES DISTRICT, FROM TBM 134 (RAILROAD SPIKE IN POLE) WEST OF PROPERTY, ELEVATION = 165.36.
4. PROPERTY LINE INFORMATION: CALCULATED PROPERTY LINES ARE SHOWN.
5. THIS PROPERTY MAY BE ENCUMBERED BY THE FOLLOWING RECORDED INSTRUMENTS:

THERE ARE NO EASEMENTS OF RECORD THAT AFFECT THE SUBJECT PROPERTY.

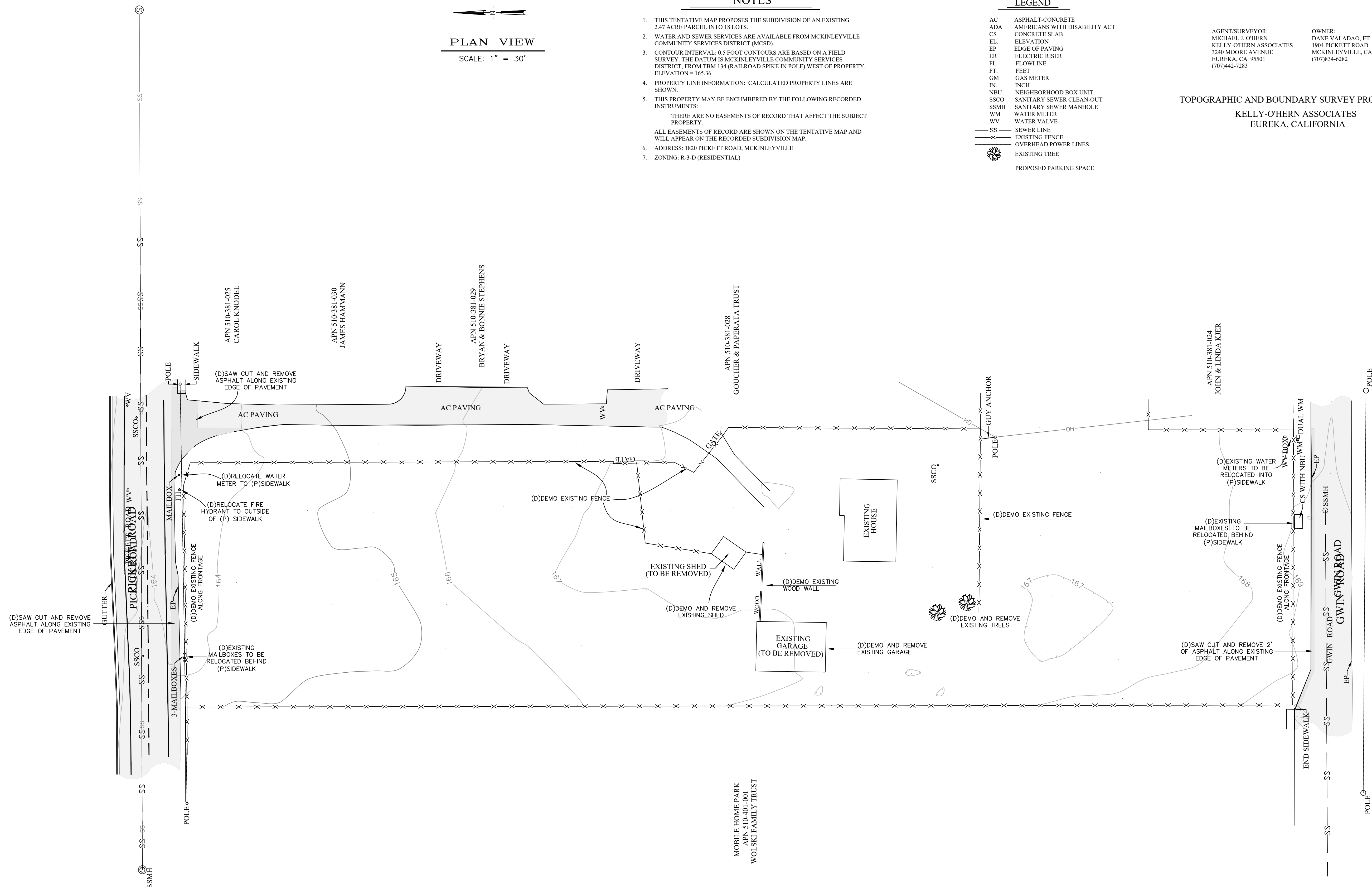
ALL EASEMENTS OF RECORD ARE SHOWN ON THE TENTATIVE MAP AND WILL APPEAR ON THE RECORDED SUBDIVISION MAP.
6. ADDRESS: 1820 PICKETT ROAD, MCKINLEYVILLE
7. ZONING: R-3-D (RESIDENTIAL)

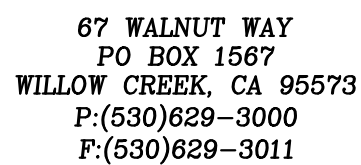
AC	ASPHALT-CONCRETE
ADA	AMERICANS WITH DISABILITY ACT
CS	CONCRETE SLAB
EL	ELEVATION
EP	EDGE OF PAVING
ER	ELECTRIC RISER
FL	FLOWLINE
FT.	FEET
GM	GAS METER
IN.	INCH
NEU	NEIGHBORHOOD BOX UNIT
SSCO	SANITARY SEWER CLEAN-OUT
SSMH	SANITARY SEWER MANHOLE
WM	WATER METER
WS	WATER VALVE
— SW	SEWER LINE
— X —	EXISTING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

AGENT/SURVEYOR: OWNER:
MICHAEL J. O'HERN DANE VALADAO, ET AL.
KELLY-O'HERN ASSOCIATES 1904 PICKETT ROAD
2340 MOORE AVENUE MC KINLEYVILLE, CA 95519
EUREKA, CA 95501 (707)834-6282
(707)442-7283

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

SCALE: 1" = 30'

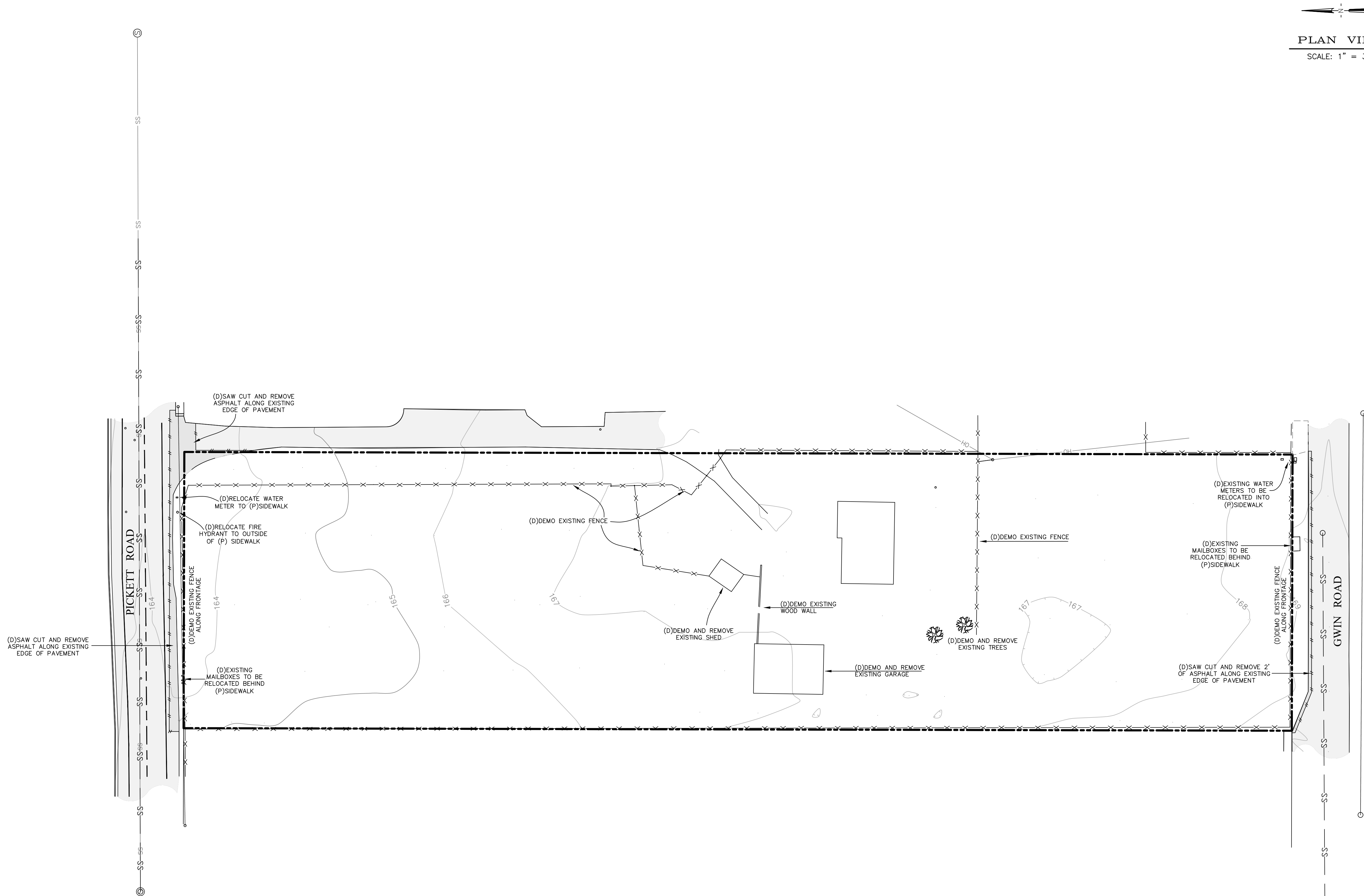


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VALADAO, ET AL
1820 PICKETT ROAD
MCKINLEYVILLE, CA 95519
APN 510-381-021

HUMBOLDT, CALIFORNIA

DRAWING NO:
C2.1



TVCE



67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011



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

VALADAO, ET AL
1820 PICKETT ROAD
MCNEER, CA 95519
APN 510-361-021

GRADING PLAN

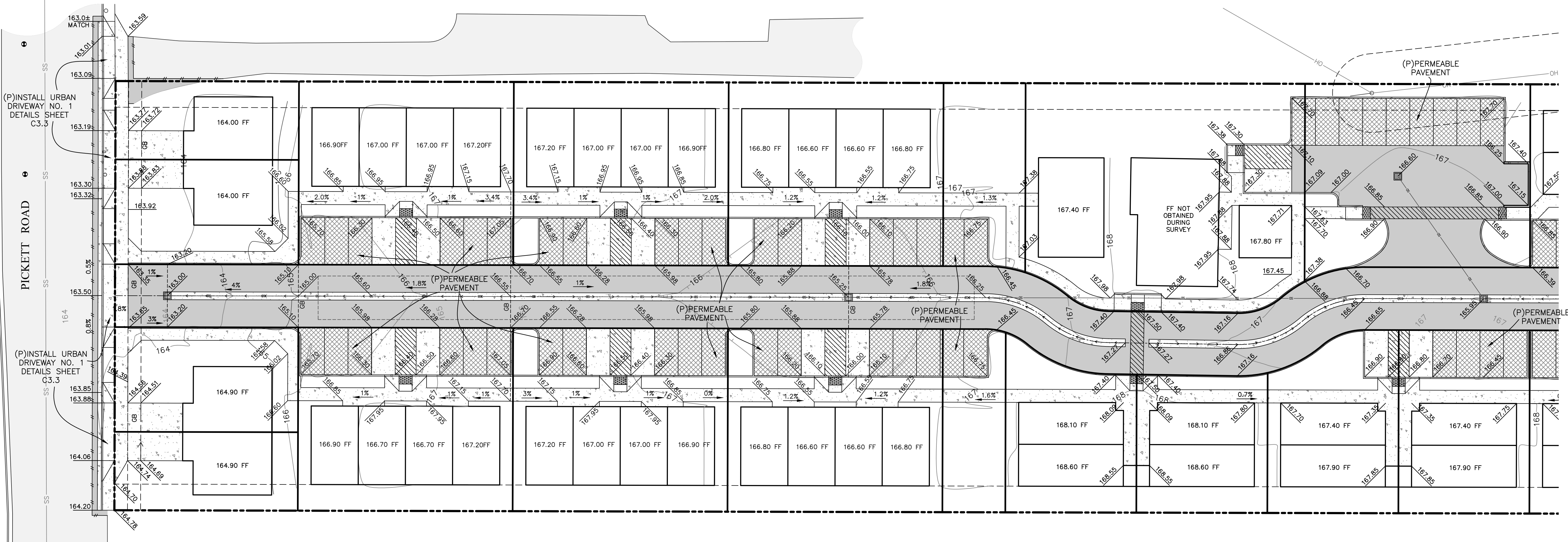
HUMBOLDT, CALIFORNIA

DATE OF ISSUE:
FEB 2023

SCALE:
1" = 30'

PROJECT NO:
873.01

DRAWING NO:
C3.0



EARTHWORK QUANTITIES:

DEGRUB 12" OF TOPSOIL ACROSS SITE

CUT (CY): ±4850 (TOPSOIL DEGRUB)

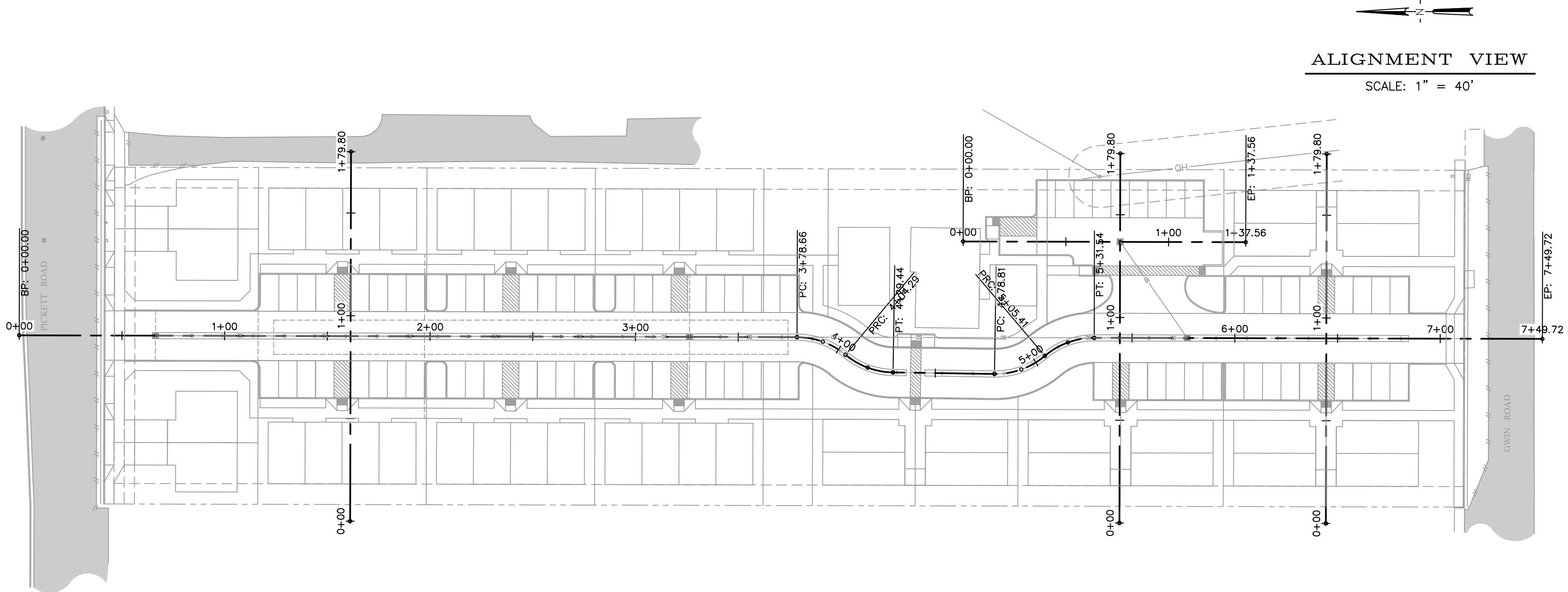
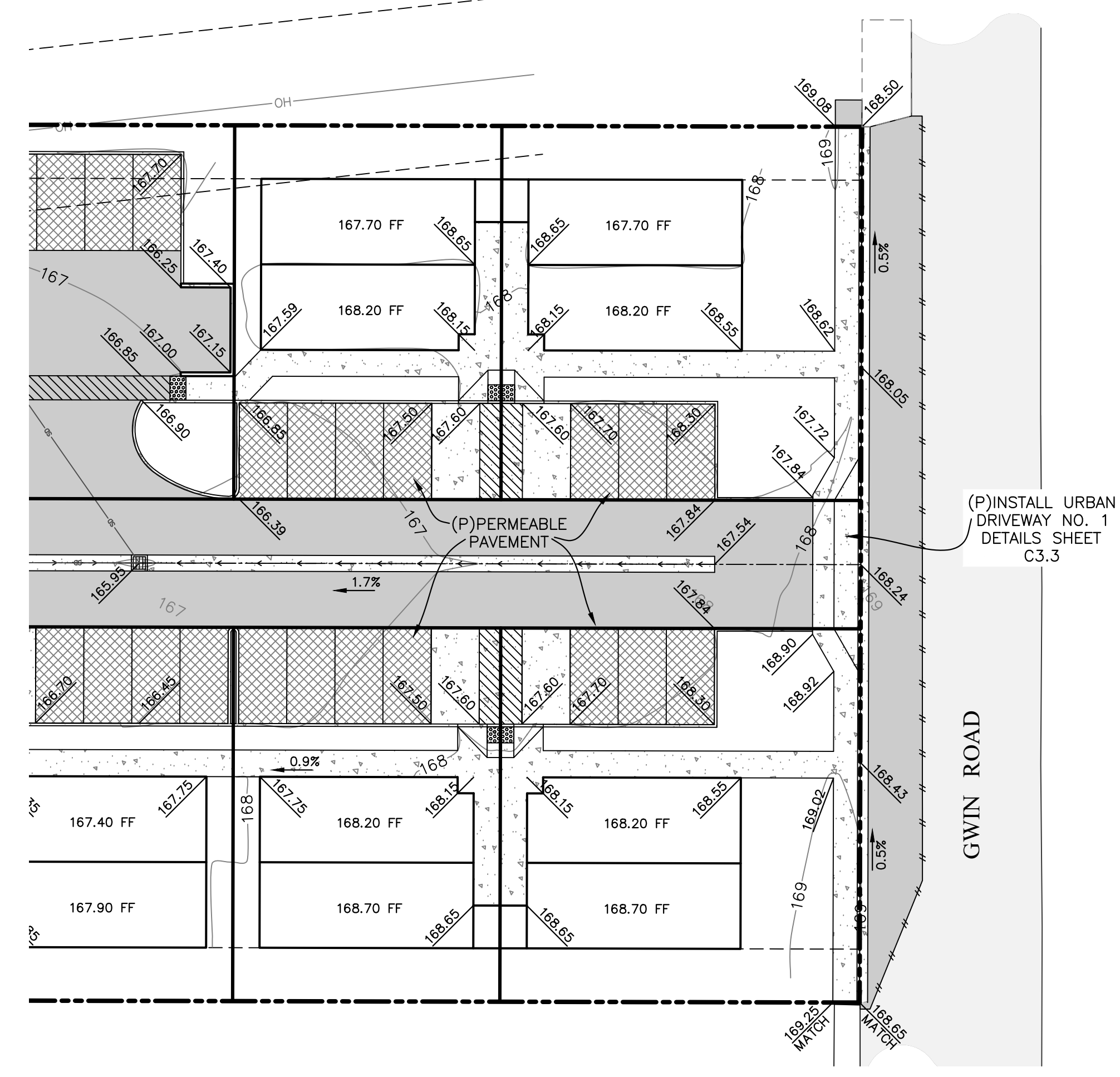
FINISHED SURFACE POST DEGRUB

FILL (CY): ±4320

NOTE:
CUT AND FILL QUANTITIES ONSITE TO BE PERMANENT

PLAN VIEW

SCALE: 1" = 20'



TVCE



67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011



REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

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

SECTIONS

HUMBOLDT, CALIFORNIA

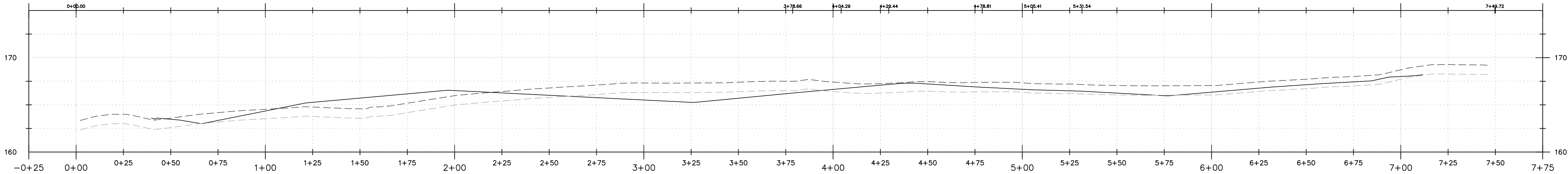
DATE OF ISSUE:
FEB 2023

SCALE:
1" = 30'

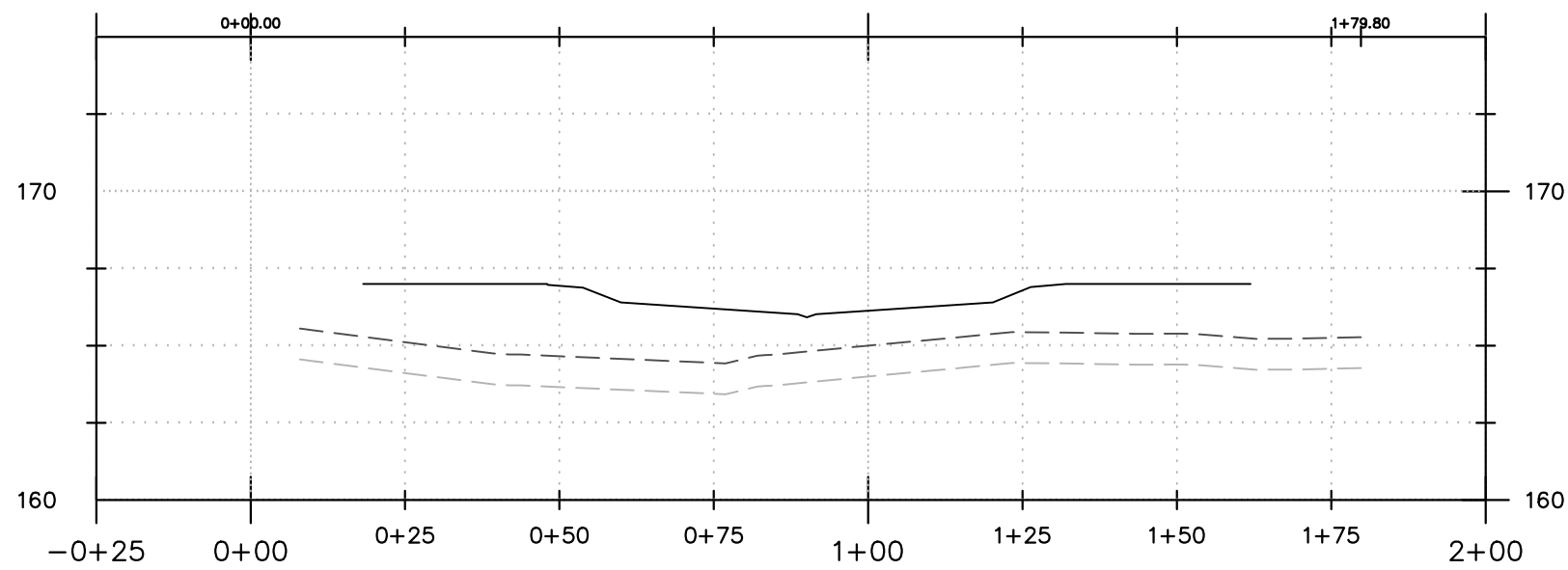
PROJECT NO:
873.01

DRAWING NO:
C3.1

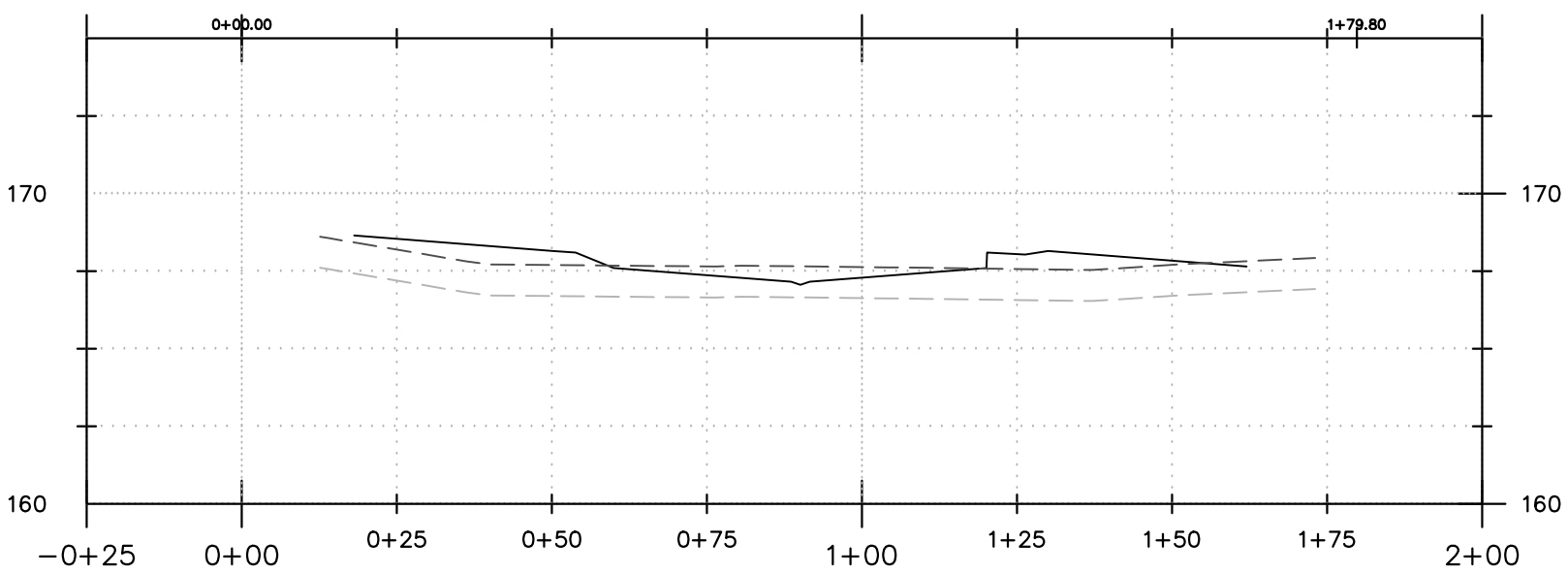
CENTERLINE



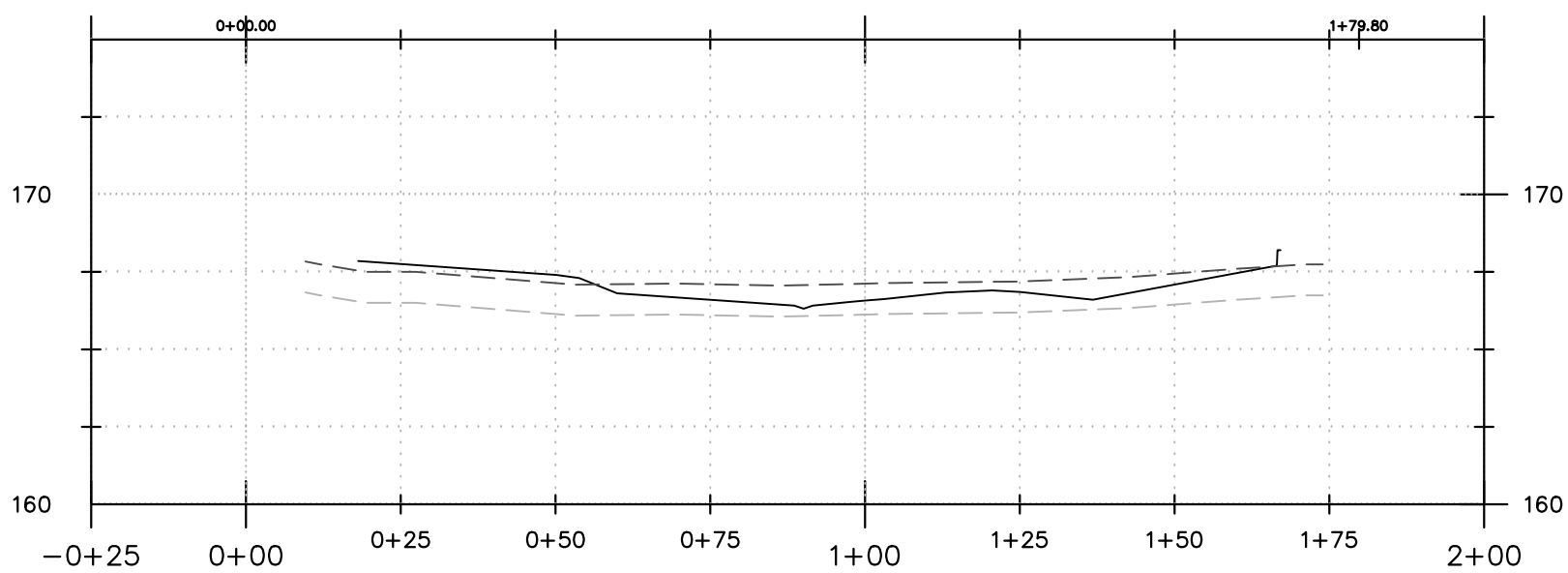
NORTH CROSS SECTION



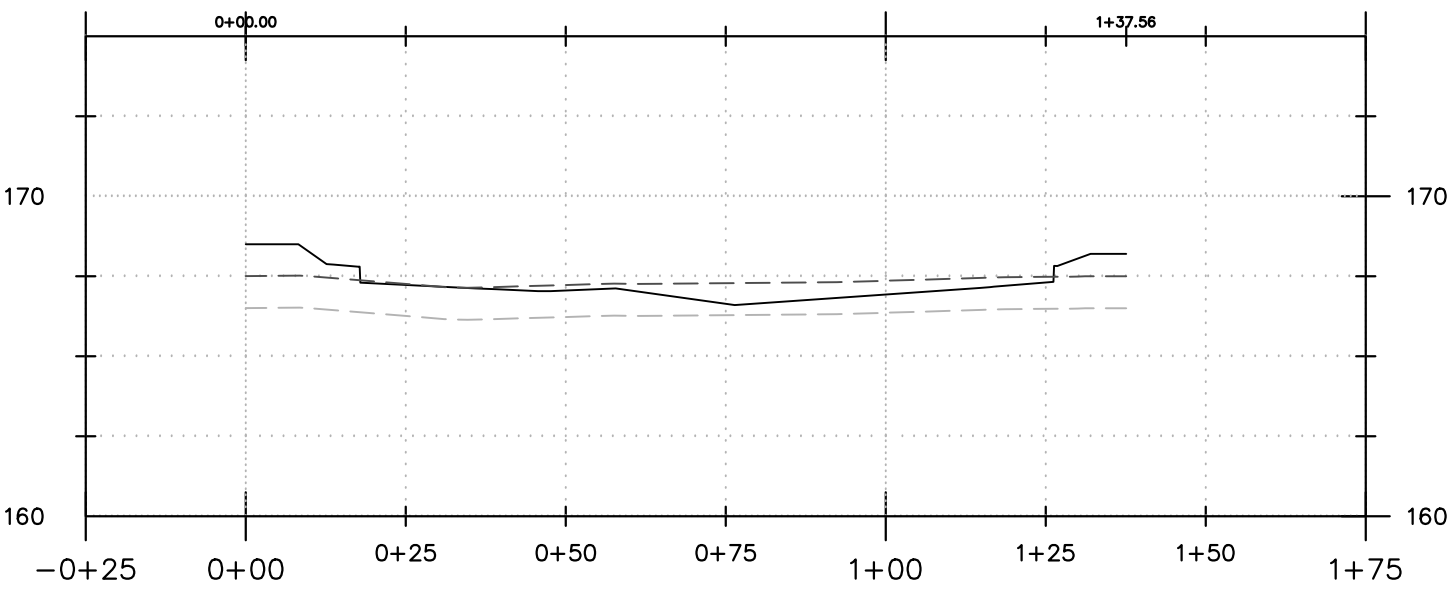
SOUTH CROSS SECTION



AUXILIARY PARKING



TRASH ENCLOSURE



1. 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)
2. 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.
3. 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.
4. ALL FILL MATERIAL SHALL BE PLACED IN HORIZONTAL LIFTS NOT TO EXCEED EIGHT INCHES (8") IN DEPTH AND SHALL BE COMPACTED MECHANICALLY.
5. ALL FILL MATERIAL SHALL BE FREE OF ORGANICS, ROCKS LARGER THAN 3"Ø, WOODY DEBRIS, ROOTS, AND INORGANIC MATERIAL.
6. ALL FILL MATERIAL SHALL HAVE A UNIFORM MOISTURE CONTENT AT OR NEAR OPTIMUM MOISTURE CONTENT AS DETERMINED BY TESTING AND APPROVED BY THE ENGINEER.
7. NON-STRUCTURAL FILL SHALL BE COMPACTED MECHANICALLY TO A FIRM UNYIELDING SURFACE AS APPROVED BY THE ENGINEER.
8. COMPACTION TESTING WILL BE DETERMINED AT THE ENGINEER'S DISCRETION.
9. 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.
10. 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.
11. SUFFICIENT TESTING AND INSPECTION SHOULD BE PERFORMED TO MONITOR THE SUITABILITY OF FILL MATERIALS AND ASSURE COMPLIANCE WITH THE RECOMMENDED COMPACTION STANDARDS.

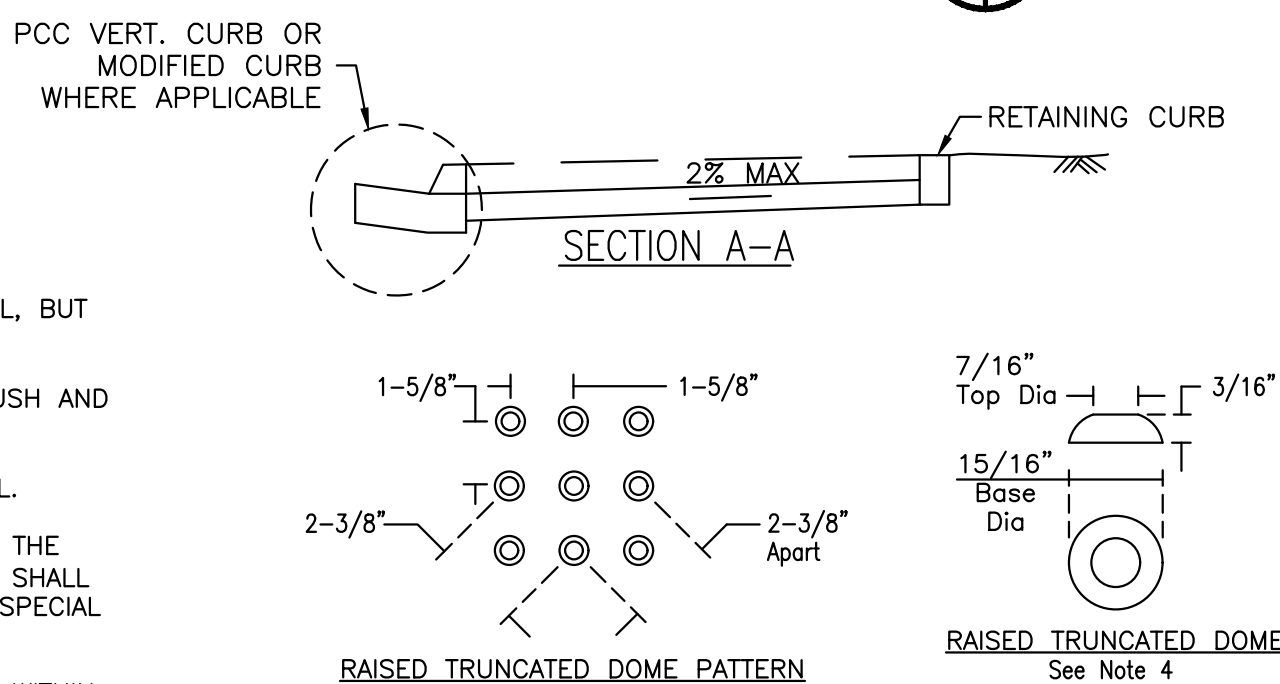
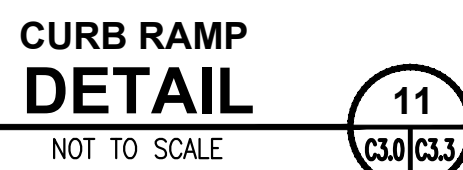
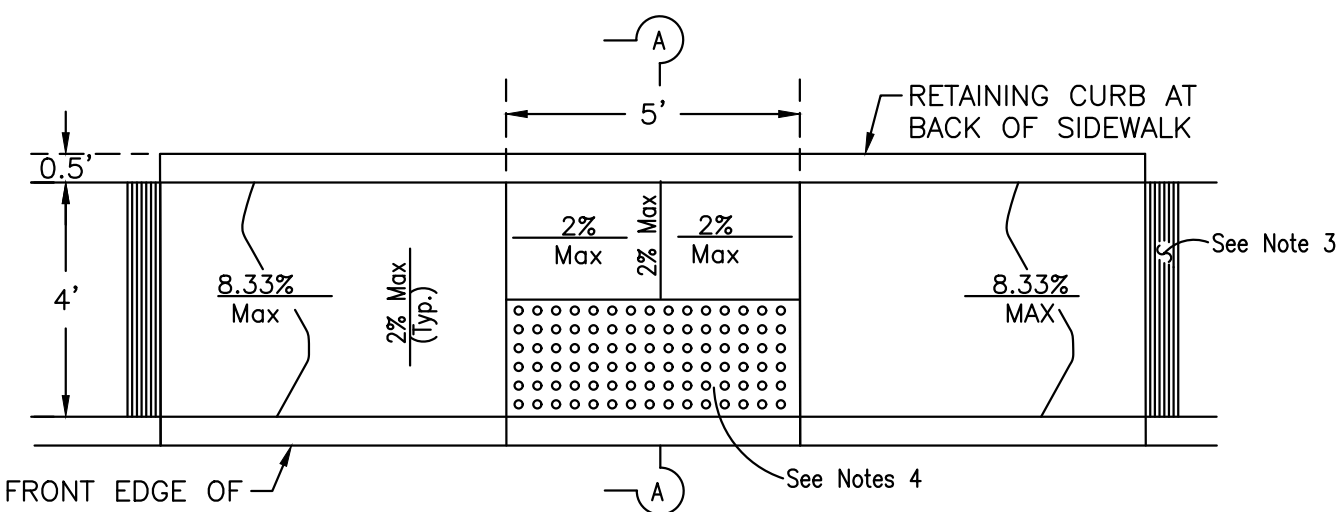
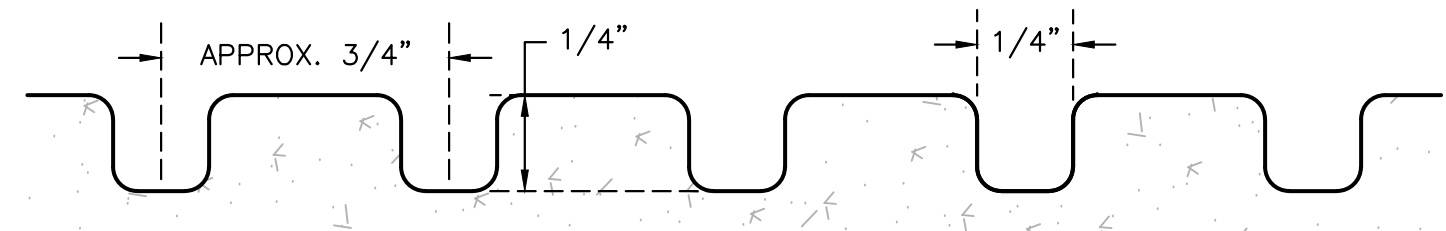
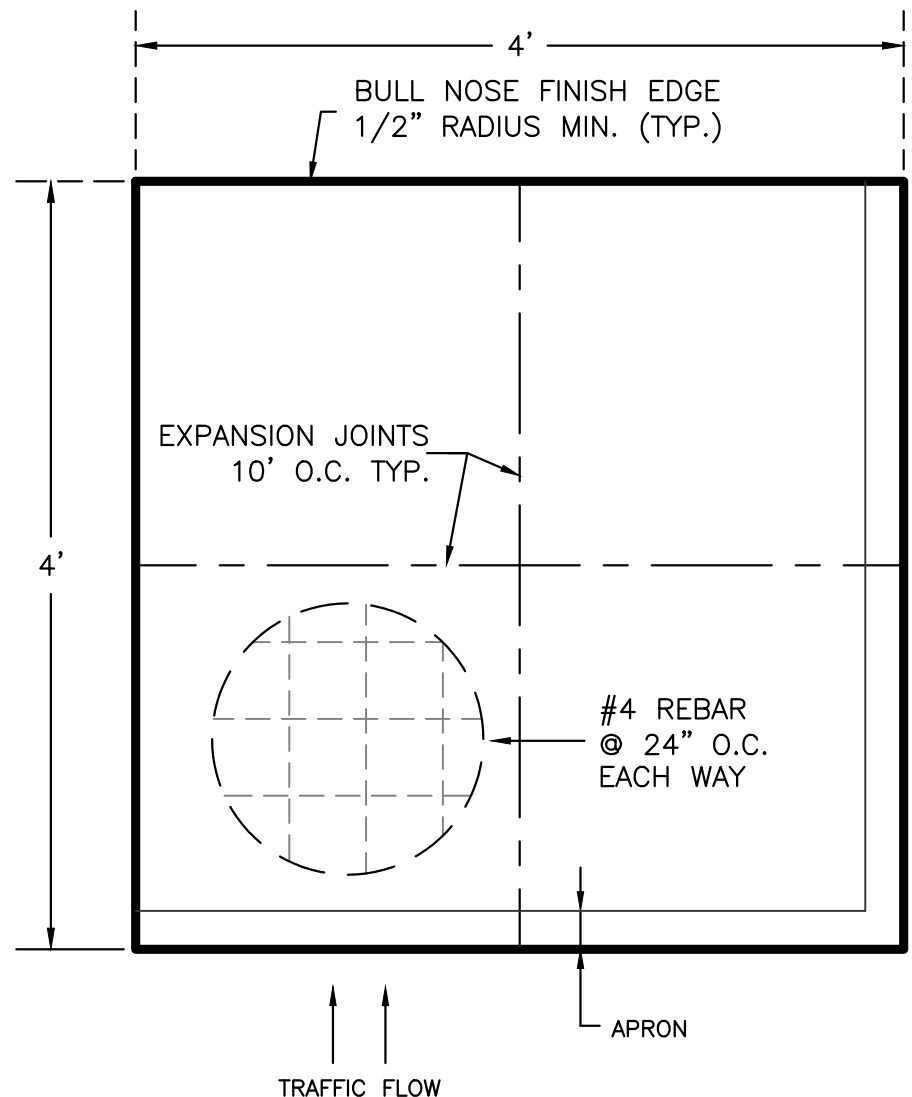
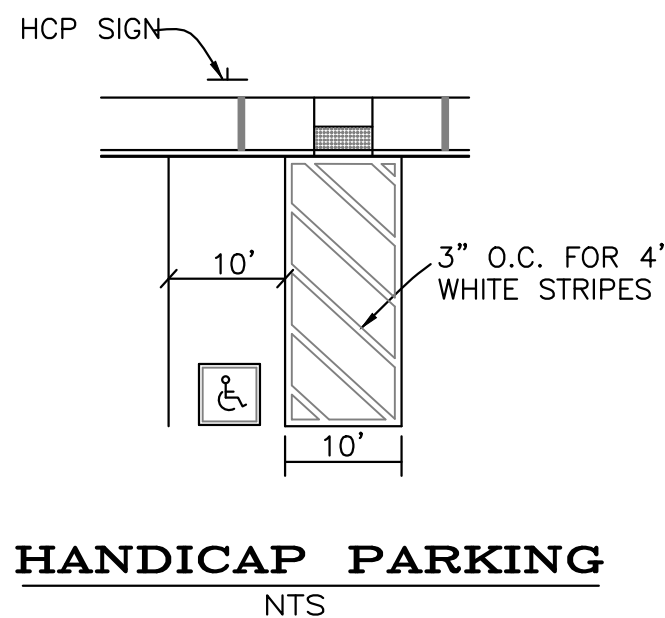
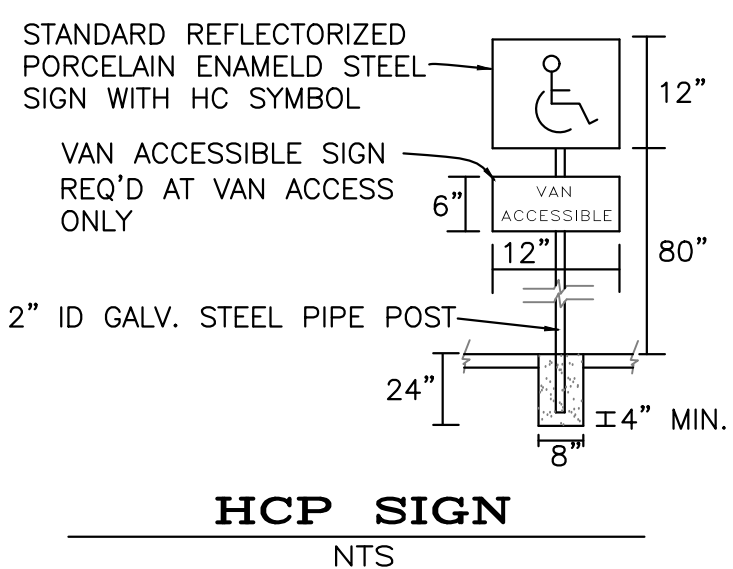
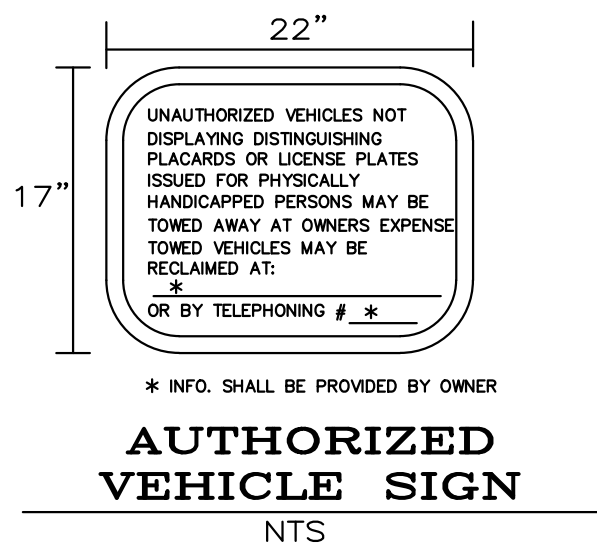
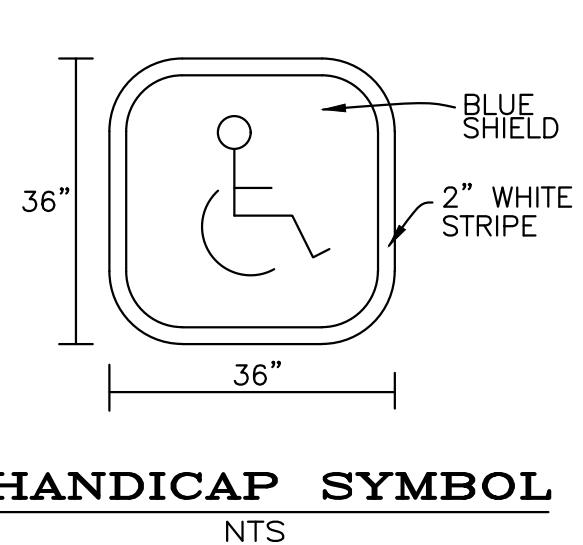
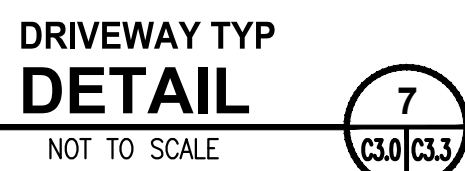
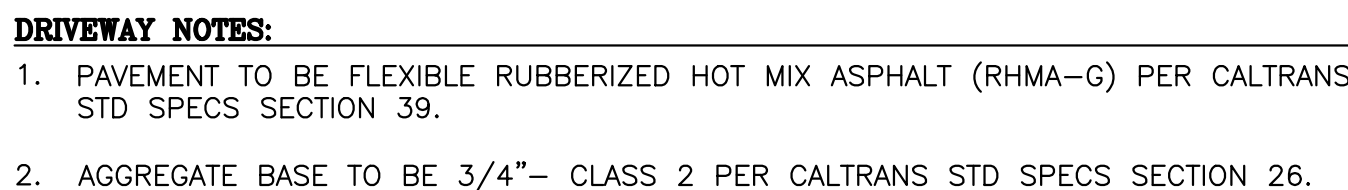
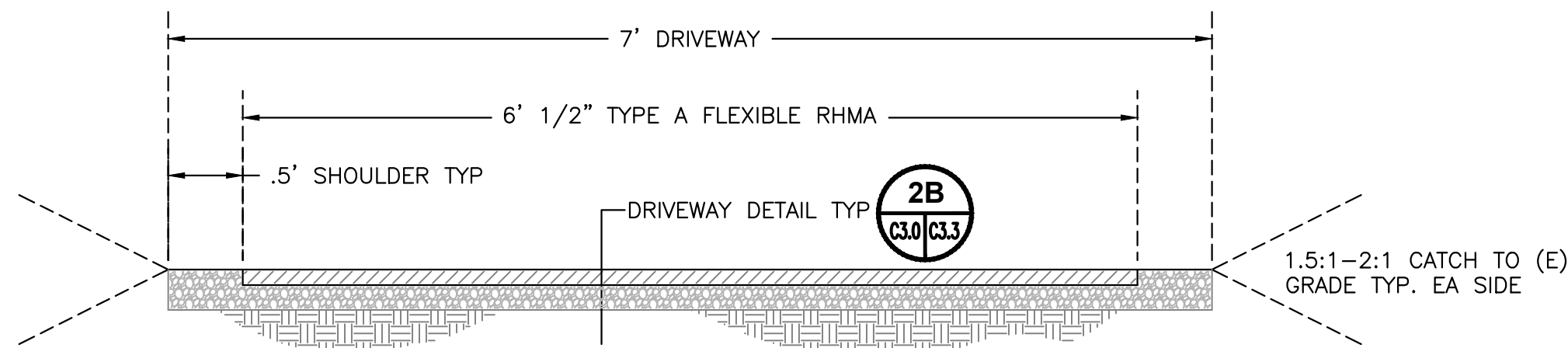
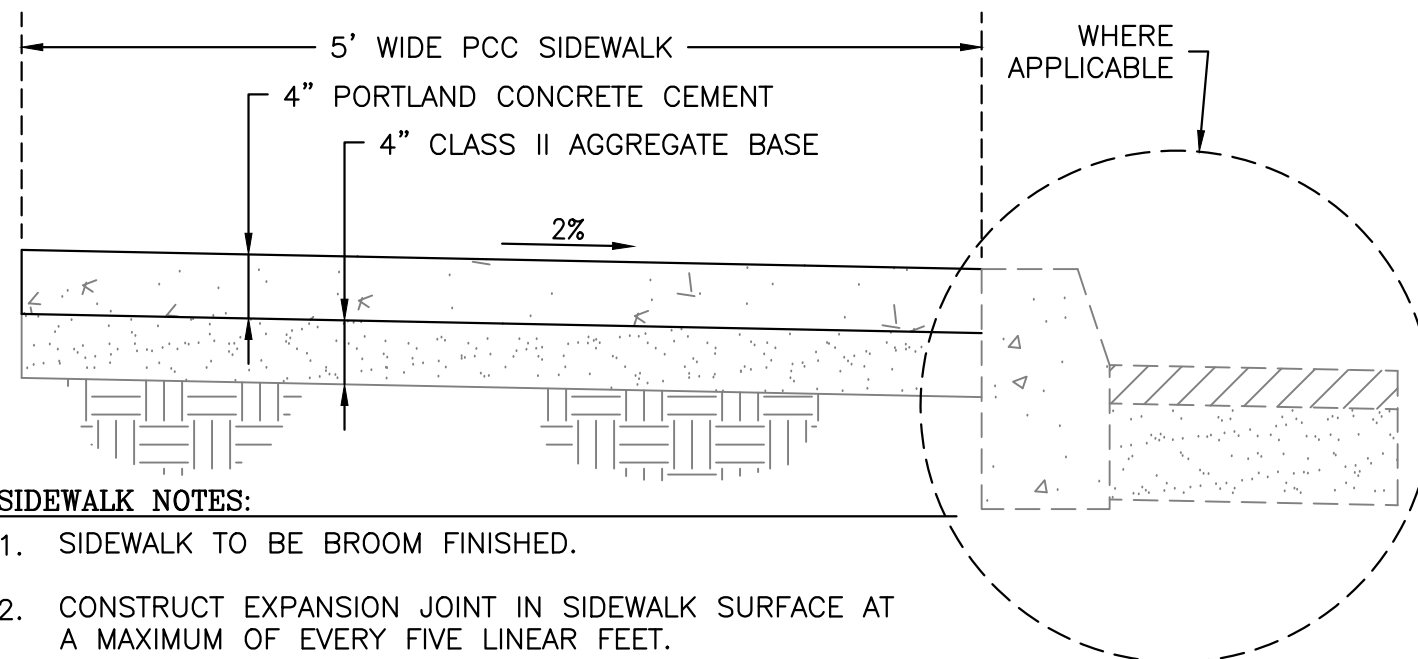
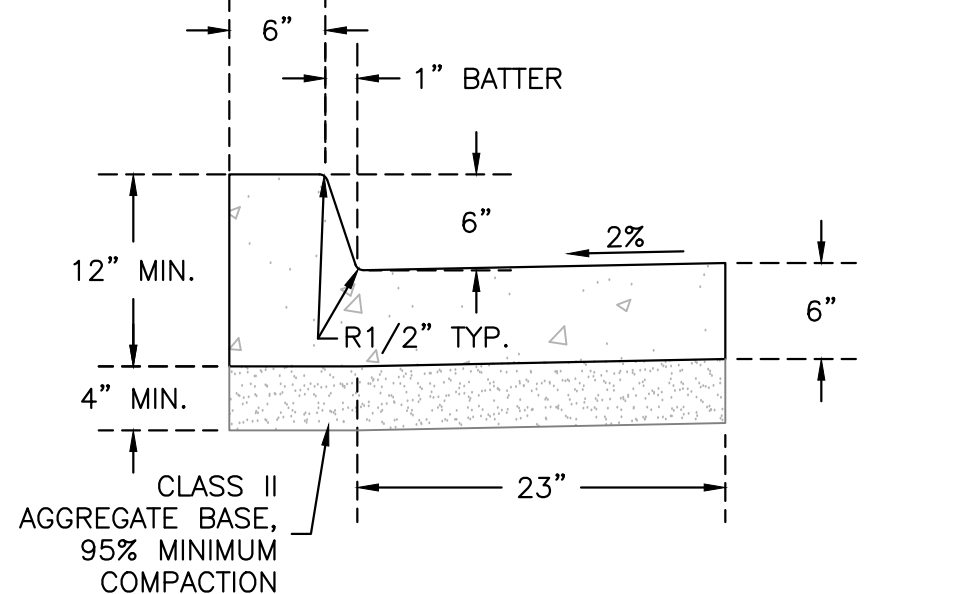
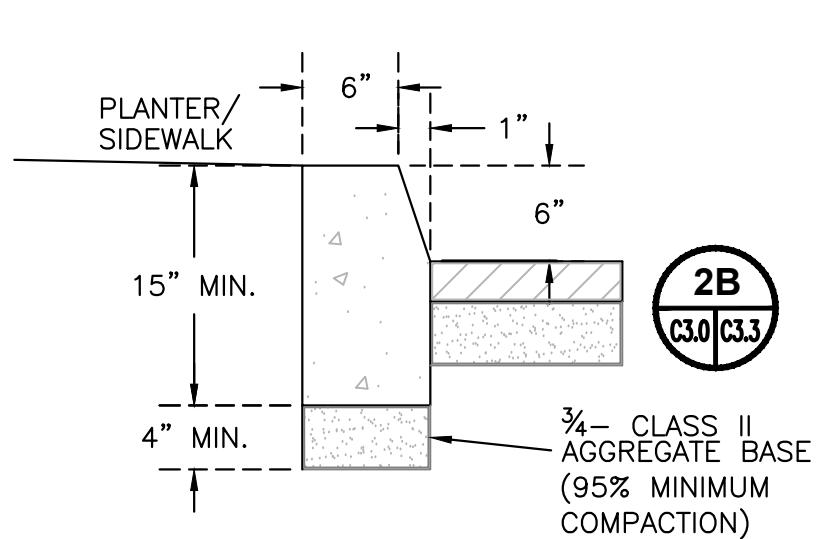
1. TREES SCHEDULED TO BE REMOVED SHALL BE REMOVED COMPLETELY INCLUDING STUMPS, ROOTS, BRANCHES, WOODY DEBRIS, BARK, AND FLESH. TREES SHALL BE REMOVED FROM THE SITE AND DEPOSITED IN LOCATIONS DESIGNATED BY THE OWNER.
2. VEGETATION AND WOODY DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A MANNER CONSISTENT WITH APPLICABLE LAWS AND REGULATIONS.
3. ALL GENERATED AND ACCUMULATED CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A MANNER CONSISTENT WITH APPLICABLE LAWS AND REGULATIONS.
4. 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.
5. DUST CONTROL SHALL BE MAINTAINED DURING DEMOLITION PRACTICES.
6. 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.
7. 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.

DRAINAGE SWALE
DETAIL
NOT TO SCALE

1A
C3.0 C3.3

DRAINAGE SWALE
DETAIL
NOT TO SCALE

1B
C3.0 C3.3



- ## CURB RAMP NOTES
1. IF LOCATED ON A CURVE, THE SIDES OF THE RAMP NEED NOT BE PARALLEL, BUT THE MINIMUM WIDTH OF THE RAMP SHALL BE 4'.
 2. TRANSITIONS FROM RAMPS TO WALKS, GUTTERS, OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT CHANGES.
 3. THE RAMP SHALL HAVE A 1' WIDE GROOVED BORDER. SEE GROOVING DETAIL.
 4. 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.
 5. UTILITY PULP 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.
 6. 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.

[illegible]

VALADAO, ET AL
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GRADING DETAILS 1

HUMBOLDT, CALIFORNIA

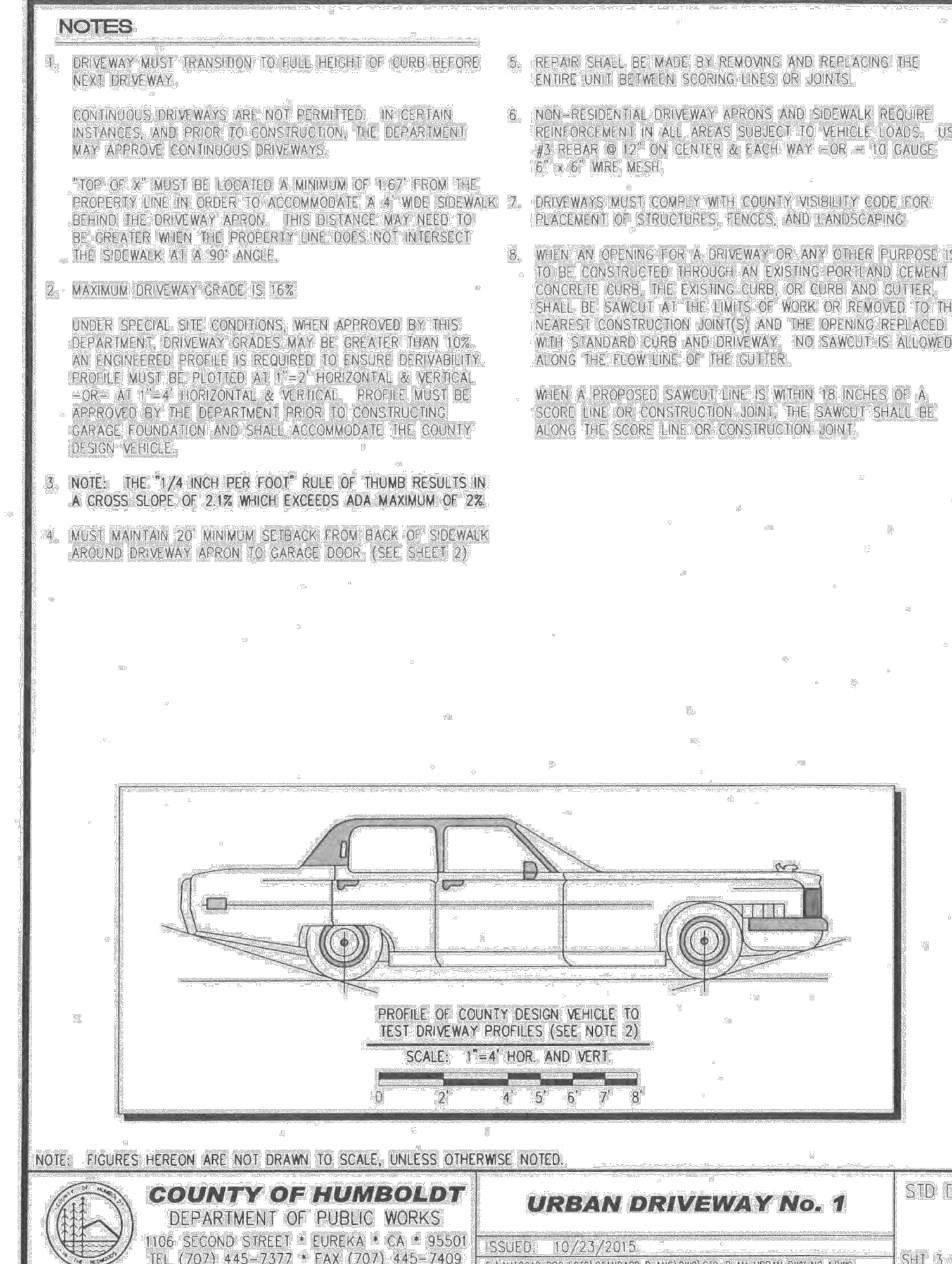
DATE OF ISSUE:
FEB 2023

SCALE: AS SHOWN

PROJECT NO: 873 01

DRAWING NO:

C03.2



TVCE



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

ELECTRIC AND TELECOM PLAN

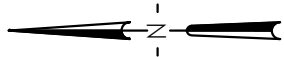
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DATE OF ISSUE:
FEB 2023

SCALE:
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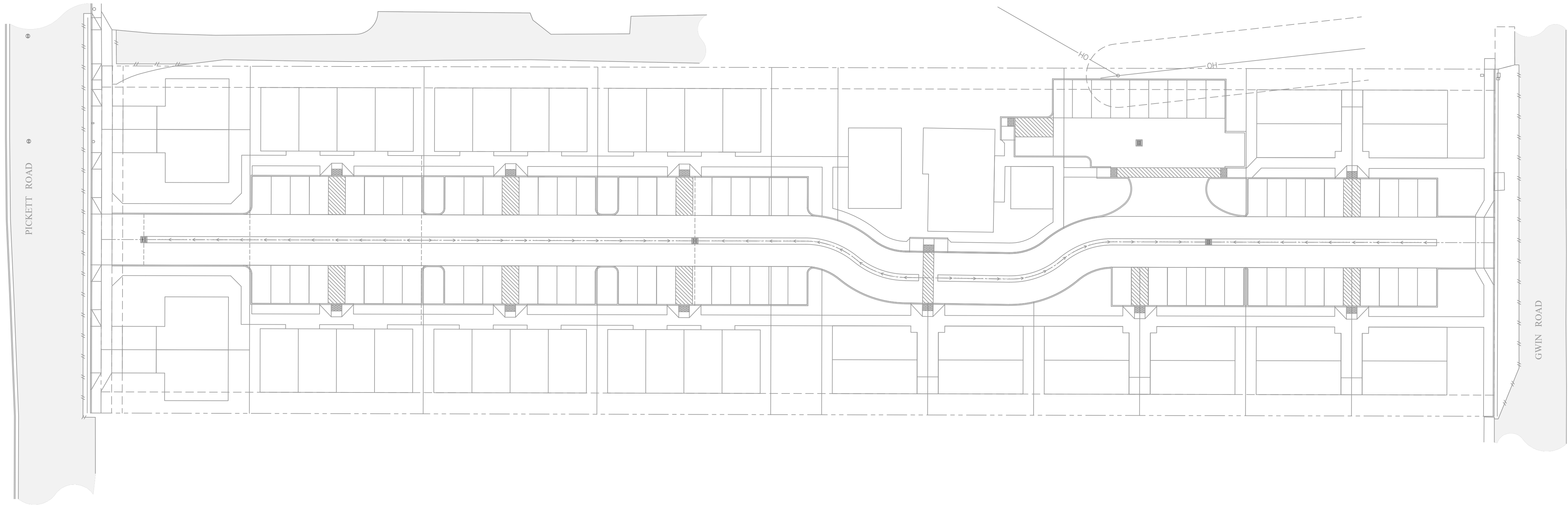
PROJECT NO:
873.01

DRAWING NO:
C4.0



PLAN VIEW

SCALE: 1" = 30'



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WATER PLAN

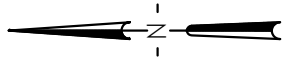
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DATE OF ISSUE:
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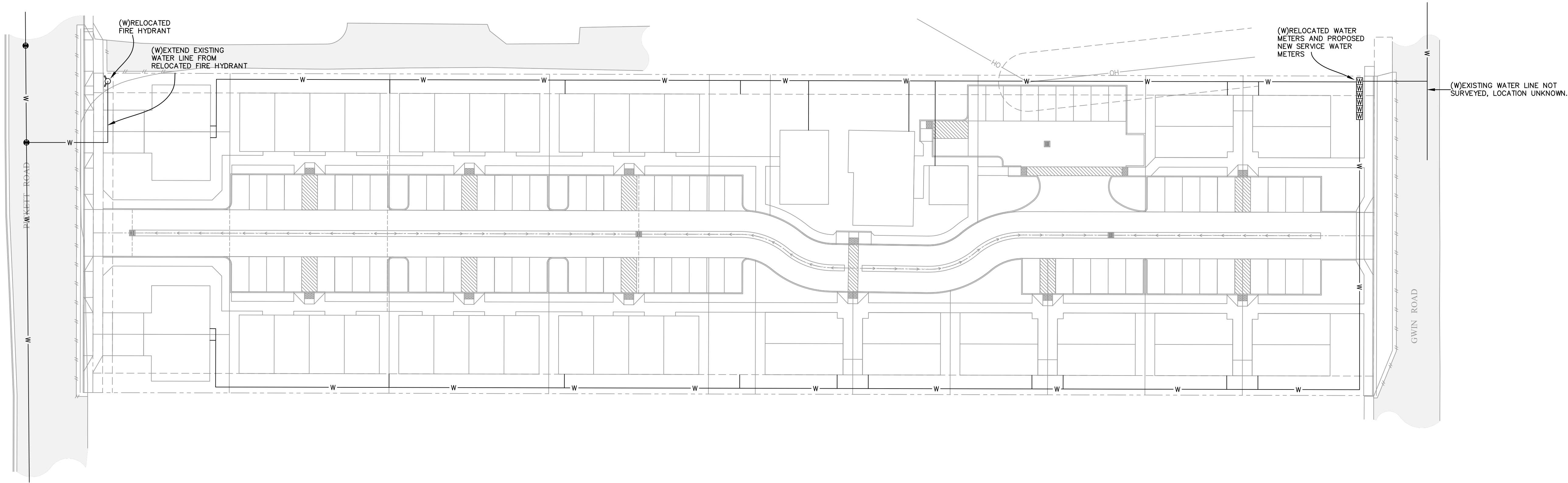
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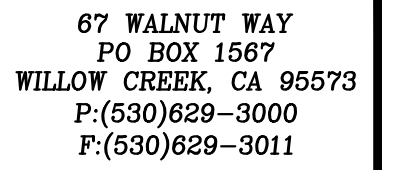
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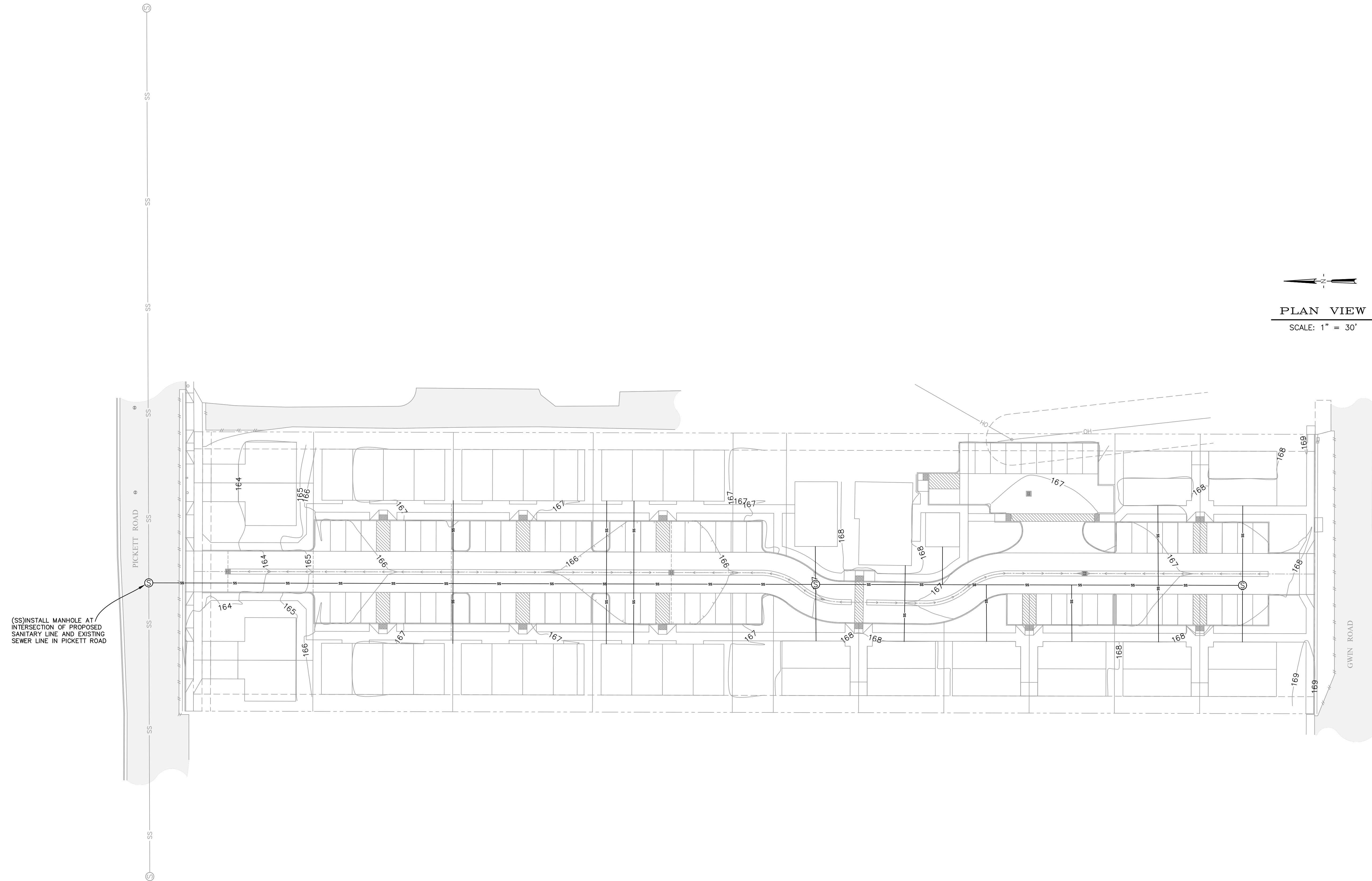
PLAN VIEW

SCALE: 1" = 30'



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DATE OF ISSUE: FEB 2023
SCALE: 1" = 30'
PROJECT NO: 873.01
DRAWING NO: C4.2



PLAN VIEW

SCALE: 1" = 30'

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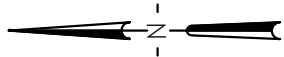
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STORM WATER PLAN

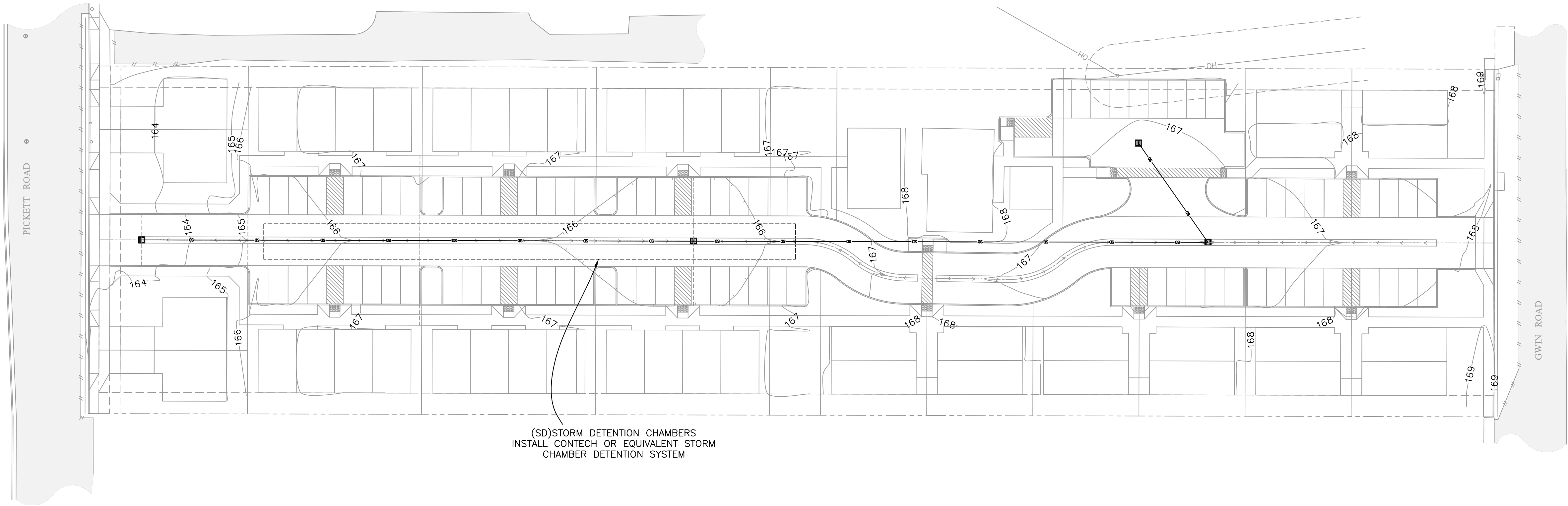
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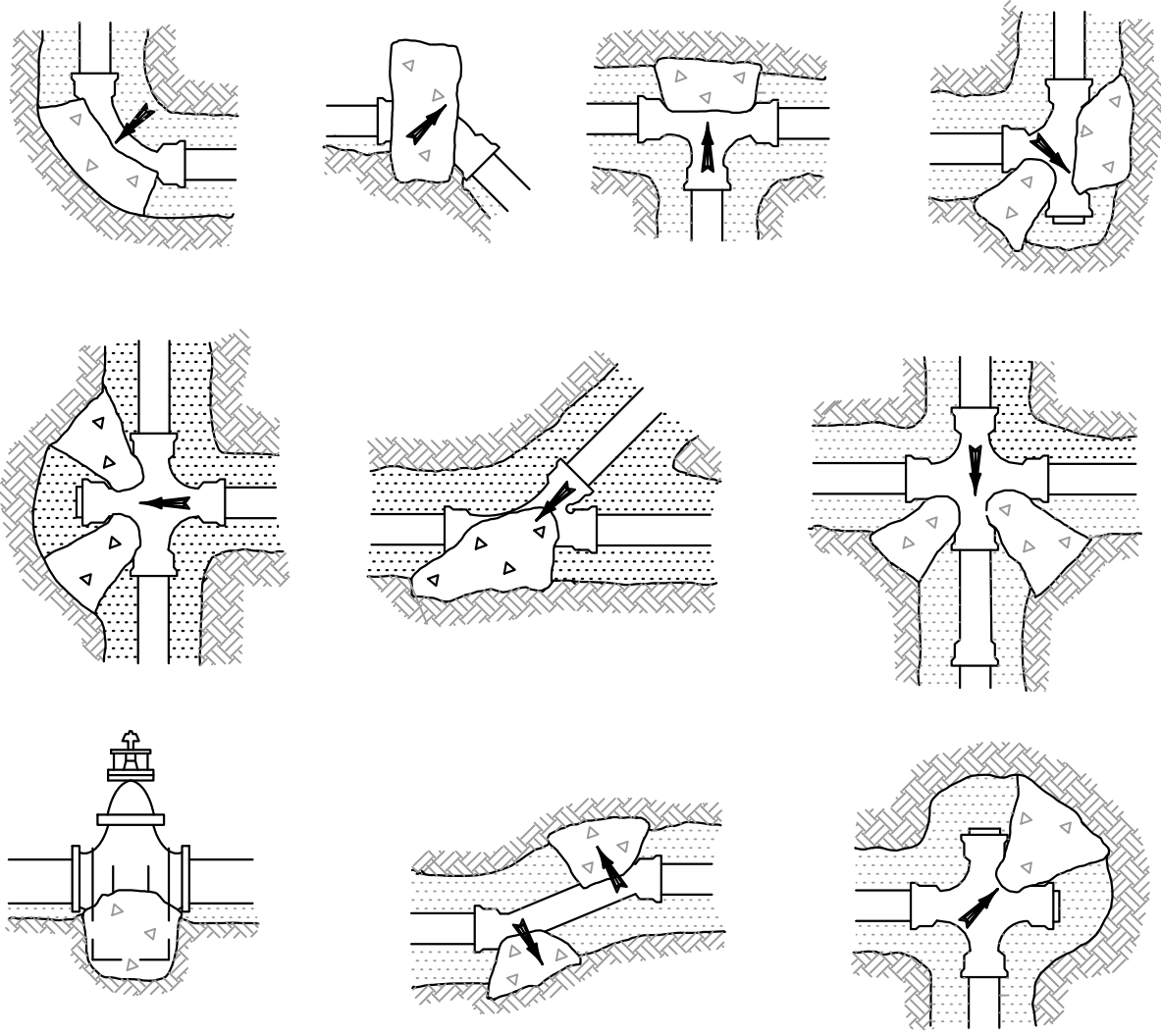


PLAN VIEW

SCALE: 1" = 30'



(SD) STORM DETENTION CHAMBERS
INSTALL CONTECH OR EQUIVALENT STORM
CHAMBER DETENTION SYSTEM



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

$$A_{SB} = \frac{T}{B} \times \frac{P.T.}{100}$$

WHERE:

A_{SB} = 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.

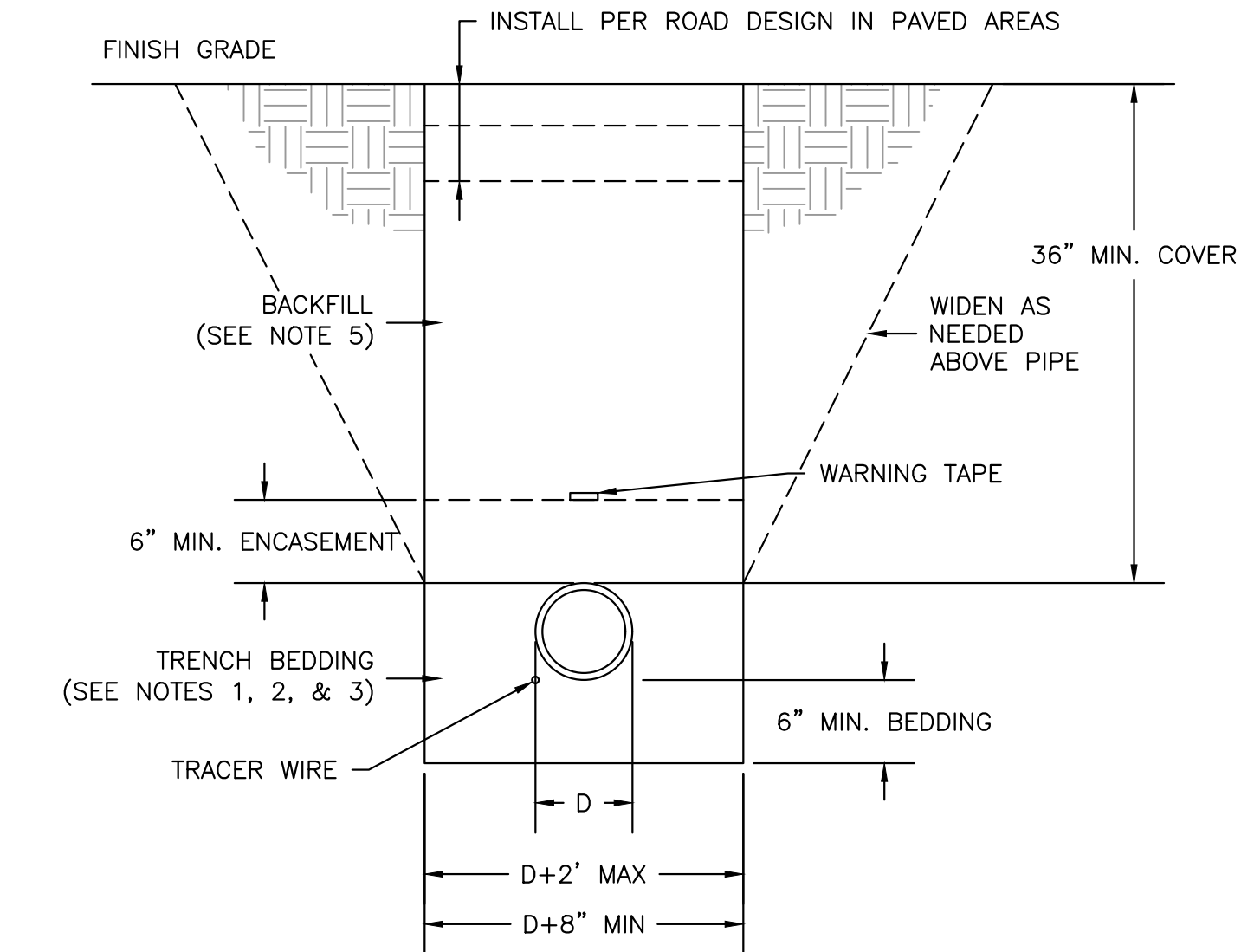
P.T. = PRESSURE USED FOR PIPELINE TEST IN PSI

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.

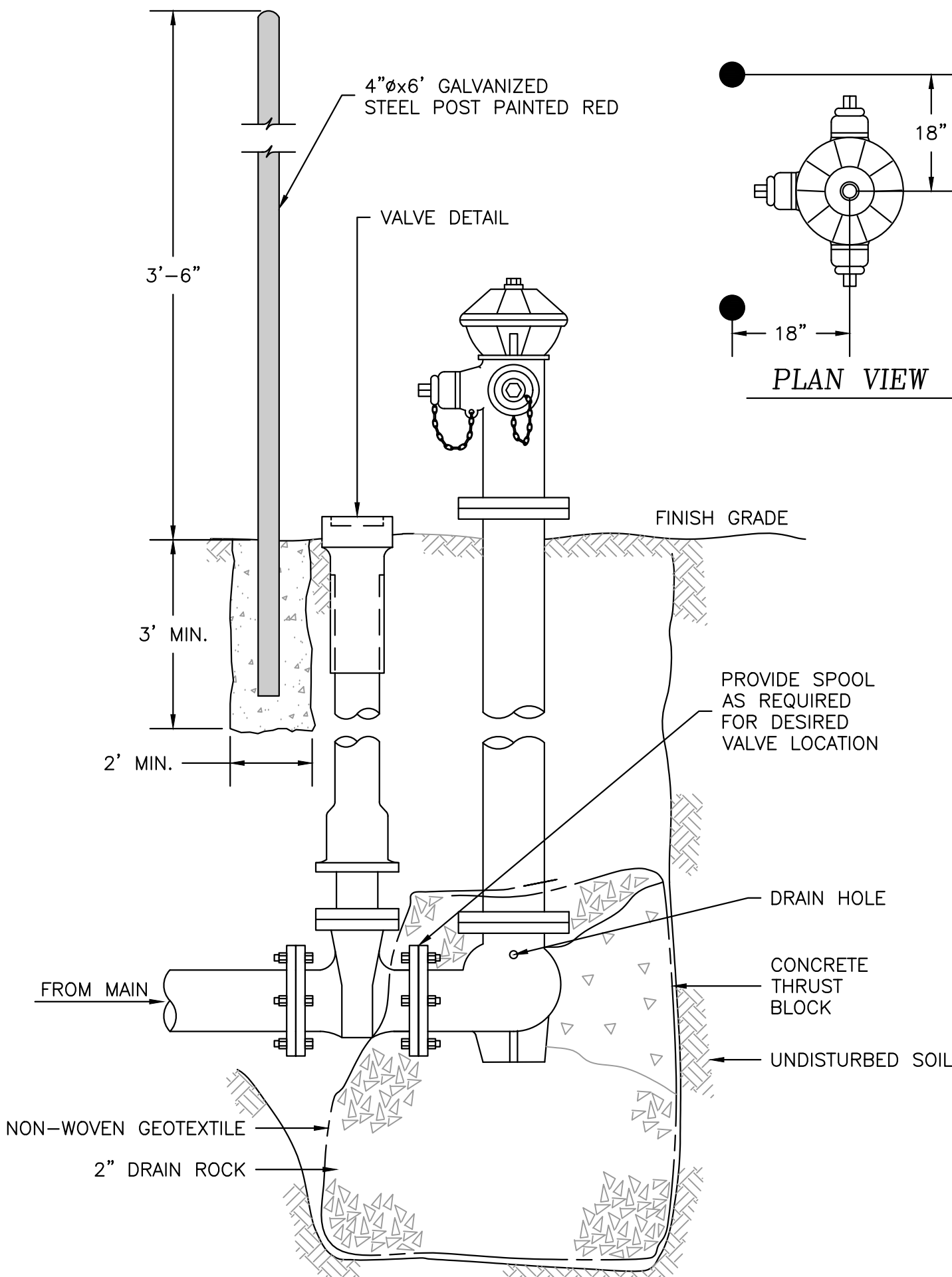
17 THRUST BLOCK DETAIL
4.0 4.1 NTS



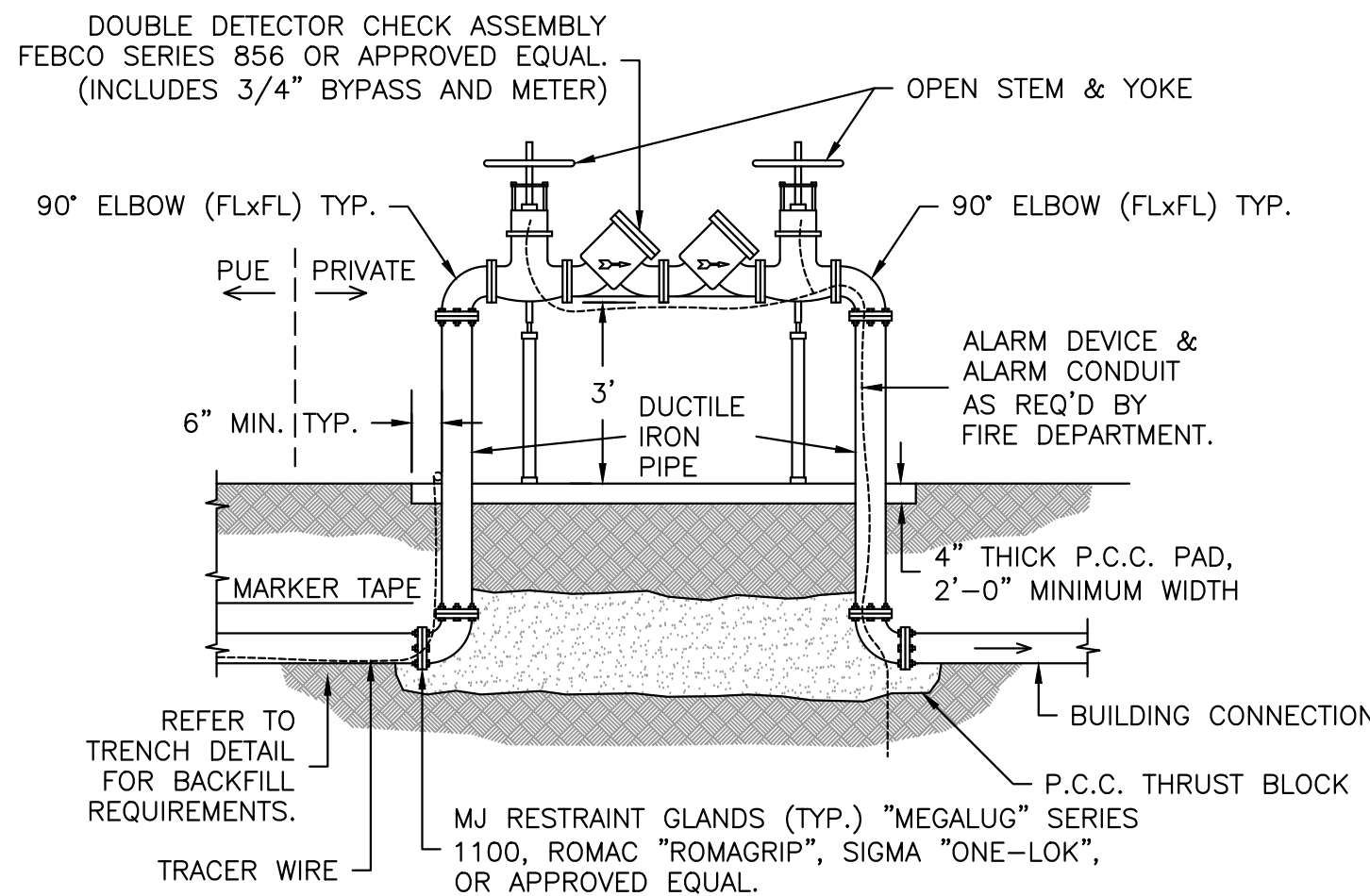
PIPE TRENCH NOTES:

- 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



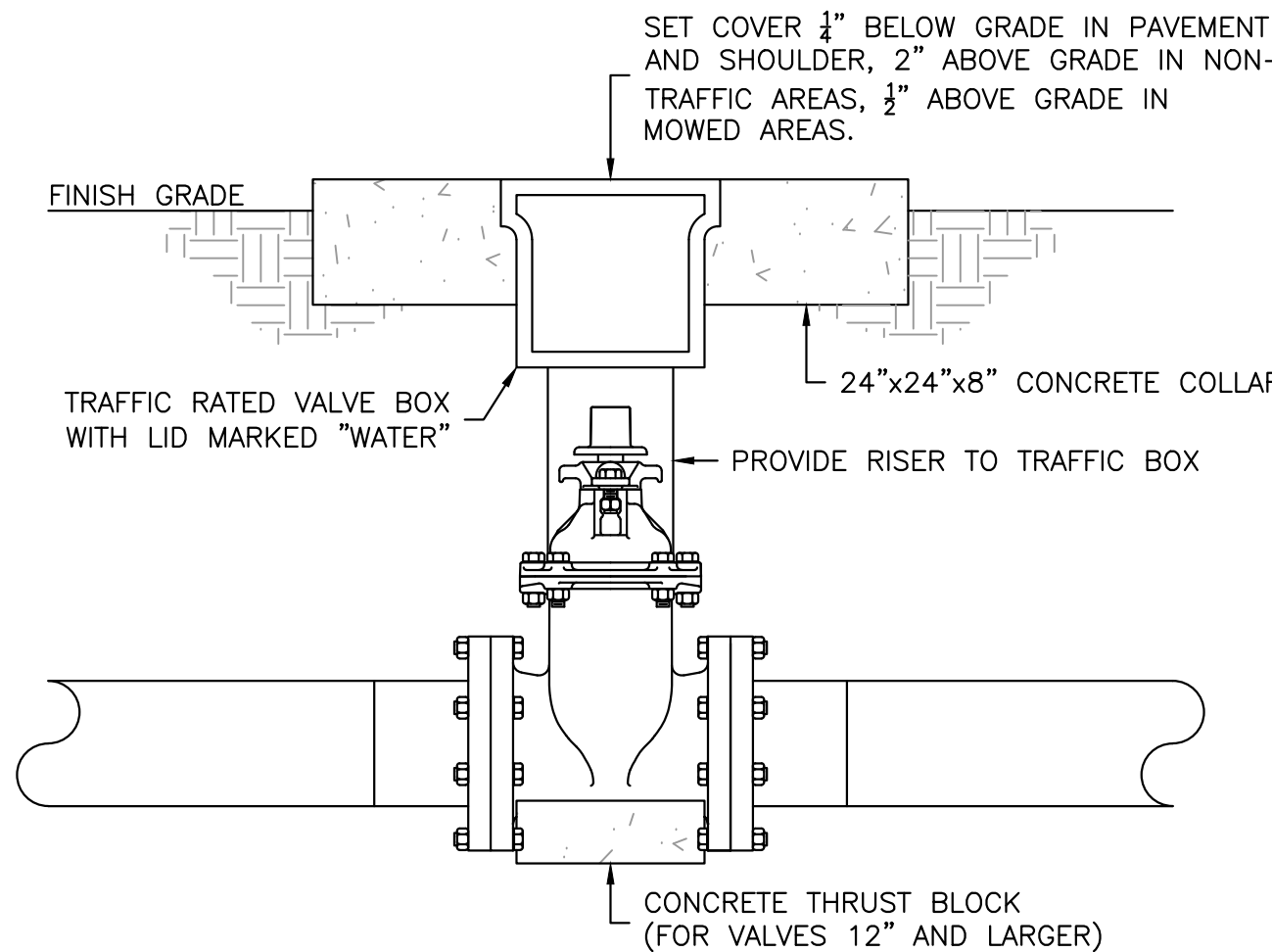
19 DRY BARREL FIRE HYDRANT DETAIL
4.0 4.1 NTS



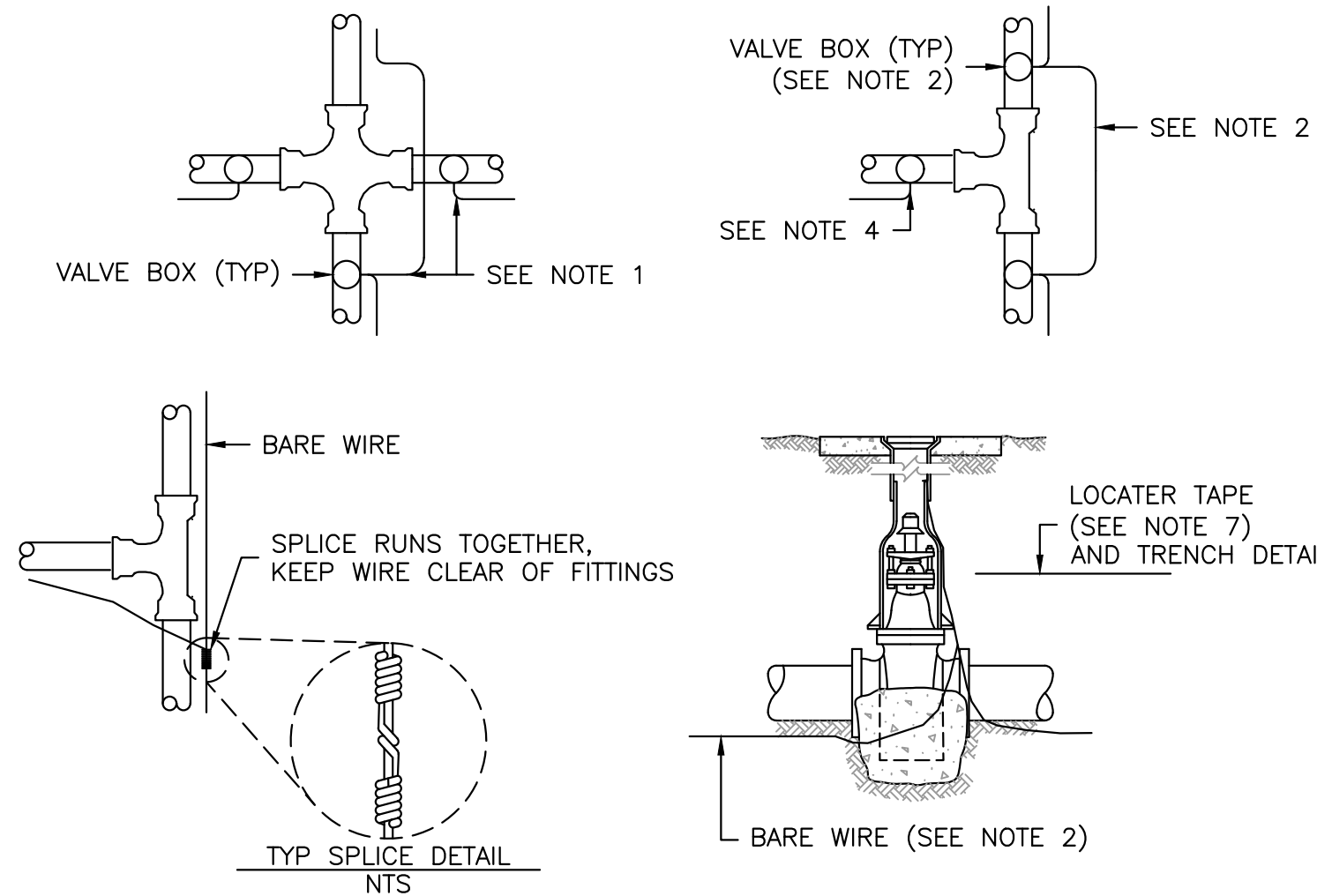
DDCA NOTES:

- 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.

20 DOUBLE DETECTOR CHECK VALVE
4.0 4.1 NTS



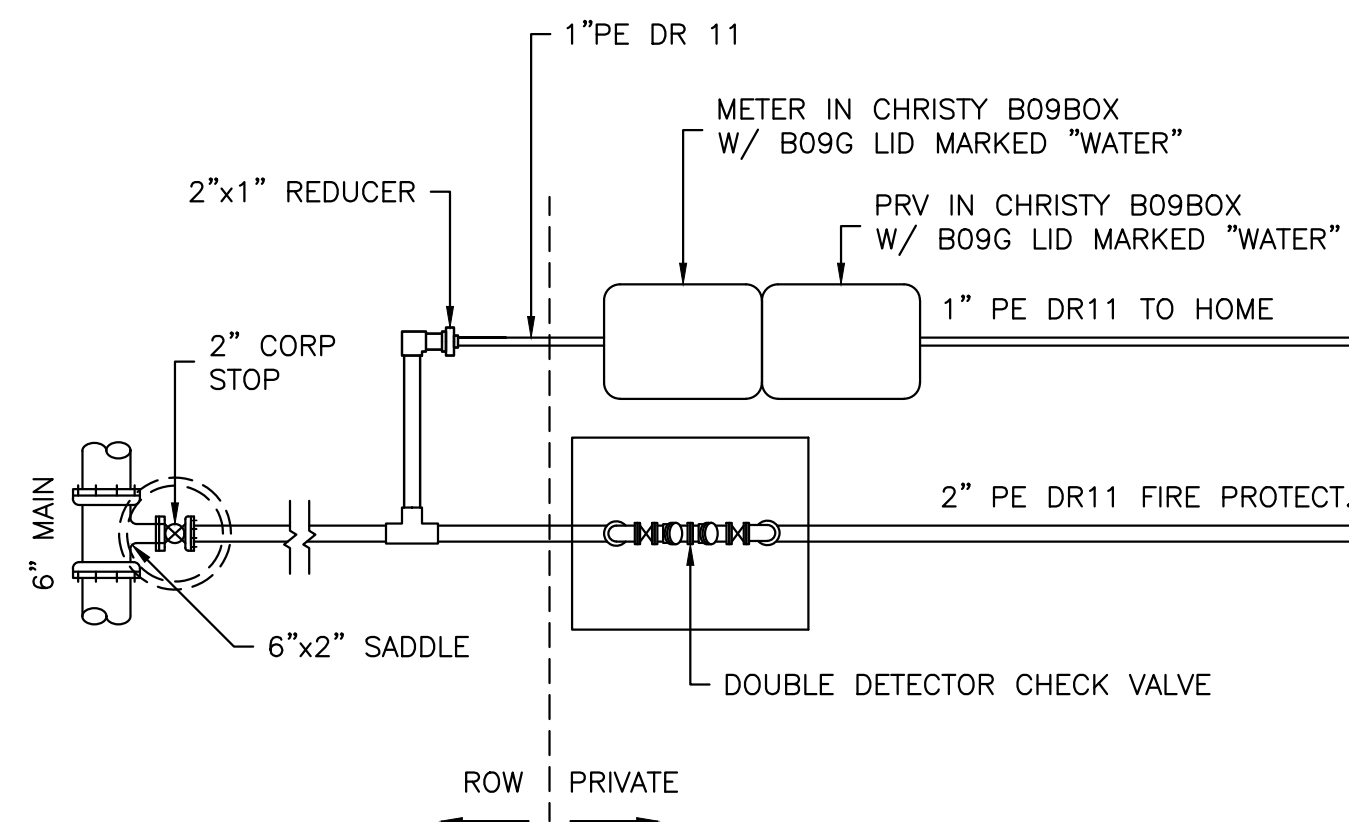
21 GATE VALVE DETAIL
4.0 4.1 NTS



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.

22 TRACER WIRE & WARNING TAPE DETAIL
4.0 4.1 NTS



WATER SERVICE NOTES:

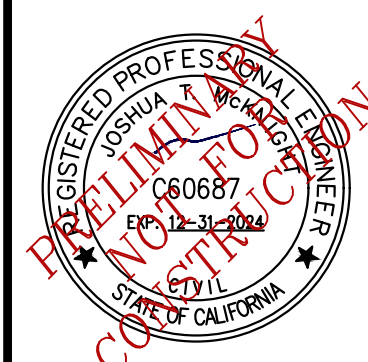
- SET METER BOX COVER FLUSH WITH FINISHED SURFACE.
- PIPE OPENINGS IN METER BOX SHALL BE CUT - DO NOT USE HAMMER. PRIOR TO BACKFILLING, PIPE OPENINGS SHALL BE GROUTED.
- TRACER WIRE REQUIRED FROM GATE VALVE AT MAIN TO HOME.

23 WATER SERVICE DETAIL
4.0 4.1 NTS

TVCE



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DATE	DESCRIPTION	CHK BY	APP BY

VALADAO, ET AL
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APN 510-361-021
HUMBOLDT, CALIFORNIA

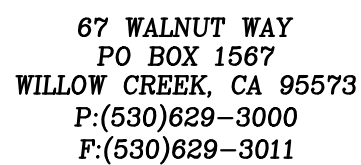
WATER DETAILS

DATE OF ISSUE:
FEB 2023

SCALE:
NTS

PROJECT NO:
873.01

DRAWING NO:
C04.4

[illegible]

VALADAO, ET AL
1820 PICKETT ROAD
McKINLEYVILLE, CA 95519

HUMBOLDT, CALIFORNIA

SCALE

DRAWING NO:

C04.5

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.

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



STANDARD MANHOLE
DETAIL
NTS



SHALLOW MANHOLE
DETAIL
NTS



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.

ELEVATION

Part	Marks
Part 1	4.0
Part 2	4.2
Total	28

NOTES:

-

SS TWO-WAY CLEANOUT DETAIL
NTS





	REV	DATE	DESCRIPTION	DWN BY	DOS BY	CHK BY	APP BY

EROSION CONTROL PLAN

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

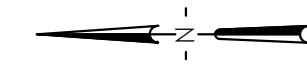
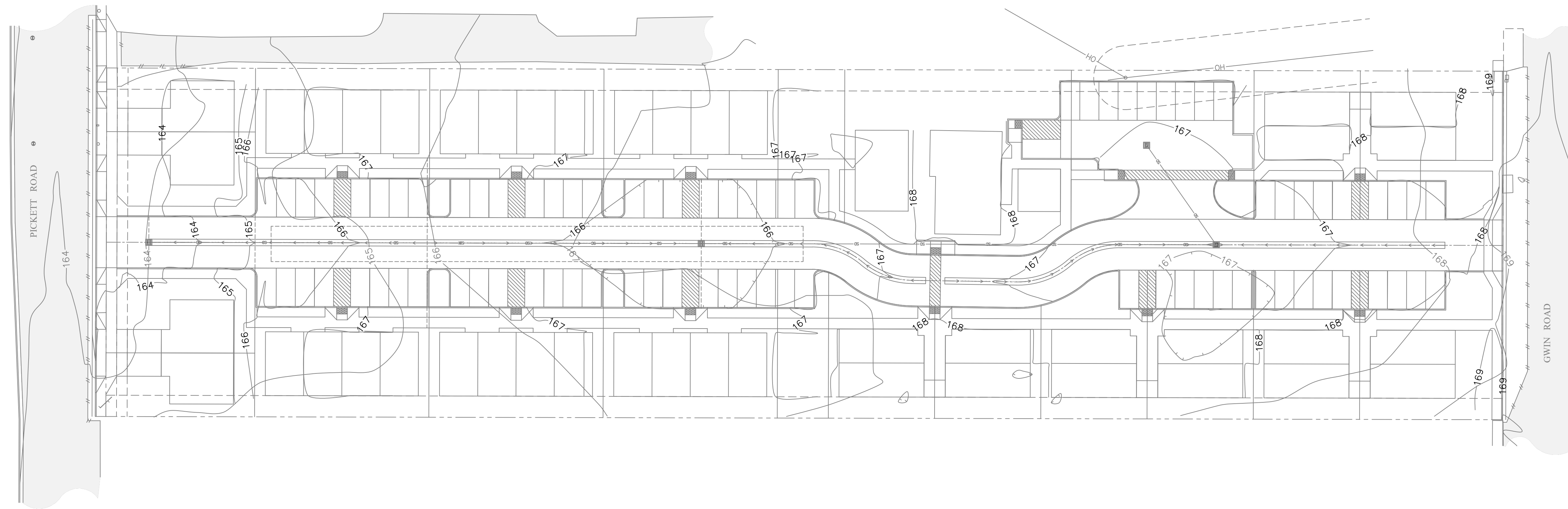
HUMBOLDT, CALIFORNIA

DATE OF ISSUE:
FEB 2023

SCALE:
1" = 30'

PROJECT NO:
873.01

DRAWING NO:
C5.0

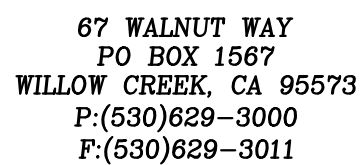


PLAN VIEW

SCALE: 1" = 30'

LEGEND

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



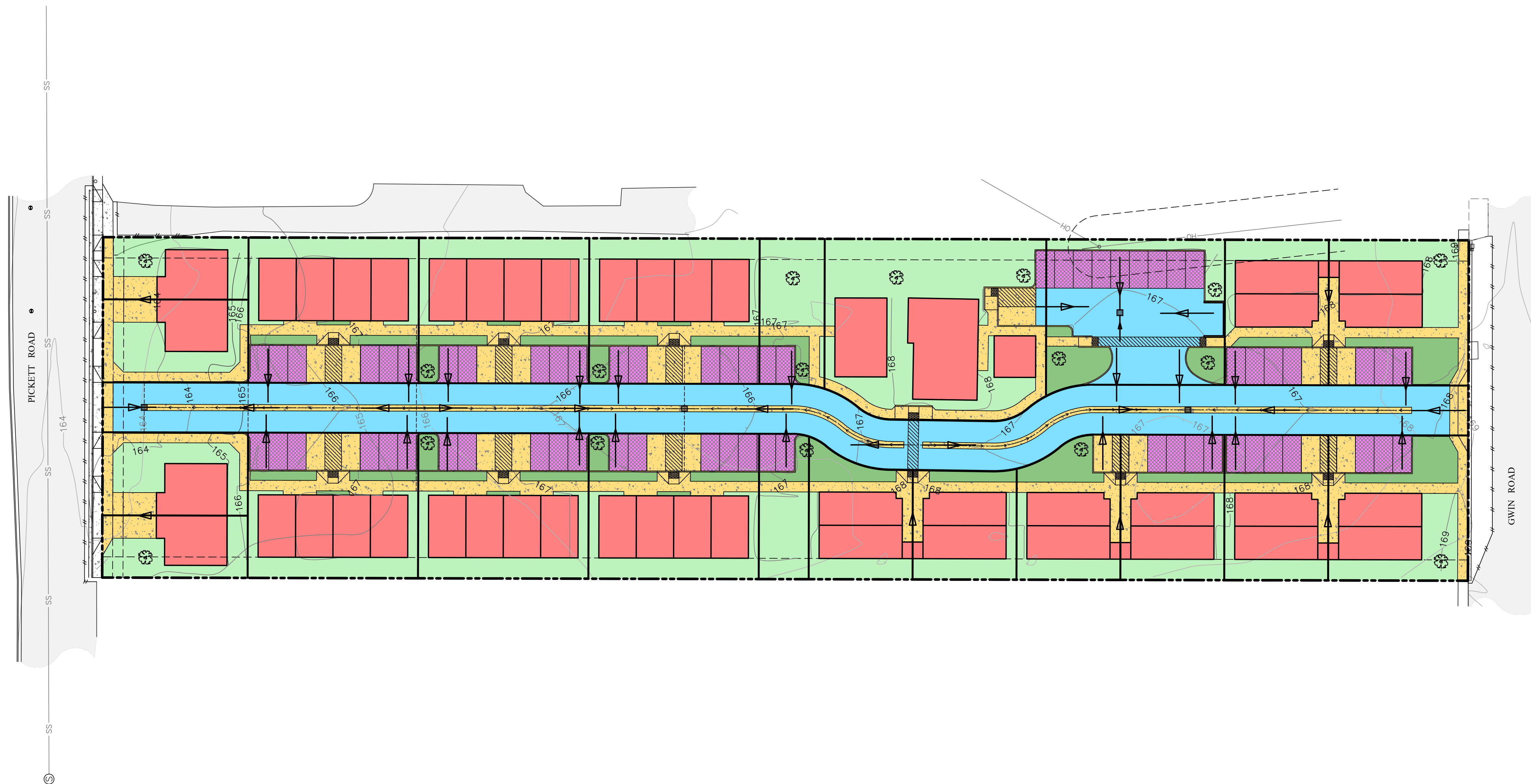
REV	DATE	DESCRIPTION	DOWN BY	DESS BY	CHK BY	APP BY
A	12/12/23	REVISED LOT LID VALUES PER AGENCY REVIEW	NRC	EEL	EEL	JTM

LID PLAN

HUMBOLDT, CALIFORNIA



SCALE: 1" = 30'



1. 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.
2. SOIL QUALITY IMPROVEMENT
IN AREAS SUBJECT TO GRADING/CLEARING NOT COVERED BY IMPERVIOUS SURFACE, CREATE/AMEND PEROVIOUS 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.

5. **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.
6. **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.
7. **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.
8. **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.
9. **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.

8. 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.

1. DIRECT DOWNSPOUT RAINWATER AWAY FROM BUILDING TO PREVENT SATURATION OF FOUNDATION.
2. PROVIDE SPLASH BLOCKS OR OTHER MEANS TO PREVENT SOIL EROSION.
3. 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

