

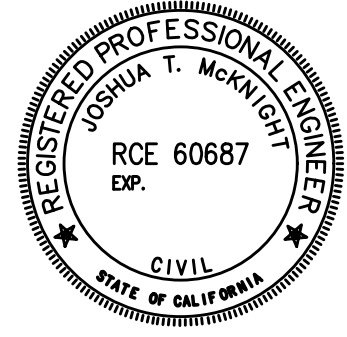
SKYLINE DEVELOPMENT
for:
KARUK TRIBE HOUSING AUTHORITY
Happy Camp, Siskiyou County, California

LEGEND	
	PROPERTY LINE
	CENTER LINE
	EXISTING FOGLINE STRIPE
	EXISTING EDGE OF PAVEMENT
	NEW ACCESS DRIVEWAY CENTERLINE
	NEW EDGE OF PAVEMENT
	EXISTING GROUND CONTOUR (INTERVAL)
	EXISTING GROUND CONTOUR (INTERVAL)
	EXISTING ACCESS DRIVEWAY
	NEW DRIVEWAY
	EXISTING CULVERTS
	NEW CULVERTS
	PAVED WATERWAY
	RIP RAP
	FLOW LINE OF DITCH OR WATERWAY
	SURFACE FLOW DIRECTION
	NEW FENCE LINE
	EXISTING FENCE LINE
	EXISTING WATERLINE
	NEW WATERLINE
	EXISTING SEWER LINE
	NEW SEWER LINE
	ROADSIDE SIGNS
	CUT SLOPE
	FILL SLOPE
	EXISTING UTILITY POLE
	EXISTING UTILITY POLE W/ GUY ANCHOR(S)
	EXISTING WATER VALVE
	NEW WATER VALVE
	EXISTING ELECTRIC BOX
	EXISTING PEDASTAL
	NEW PEDASTAL
	EXISTING WATER METER
	NEW WATER METER
	EXISTING FIRE HYDRANT
	NEW FIRE HYDRANT
	NEW ELECTRIC TRANSFORMER
	EXISTING STREET LIGHT
	NEW STREET LIGHT
	EXISTING TREE
	EXISTING TREES/BRUSH AREA
	EXISTING ROCKS
	FOUND CENTERLINE MONUMENT
	FOUND SURVEY MONUMENT
	SET SPIKE
	SURVEY CONTROL POINT (SET NAIL)

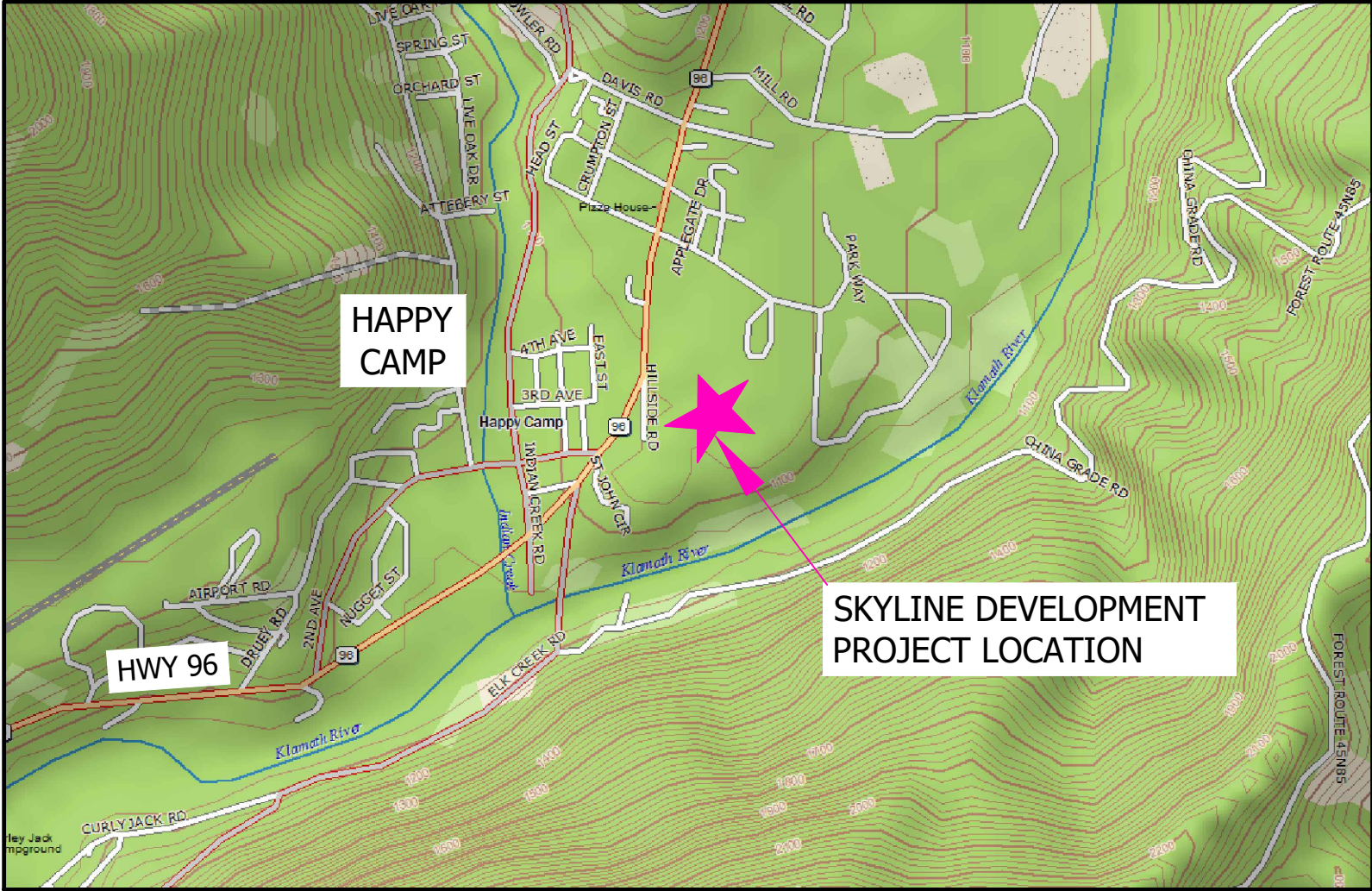
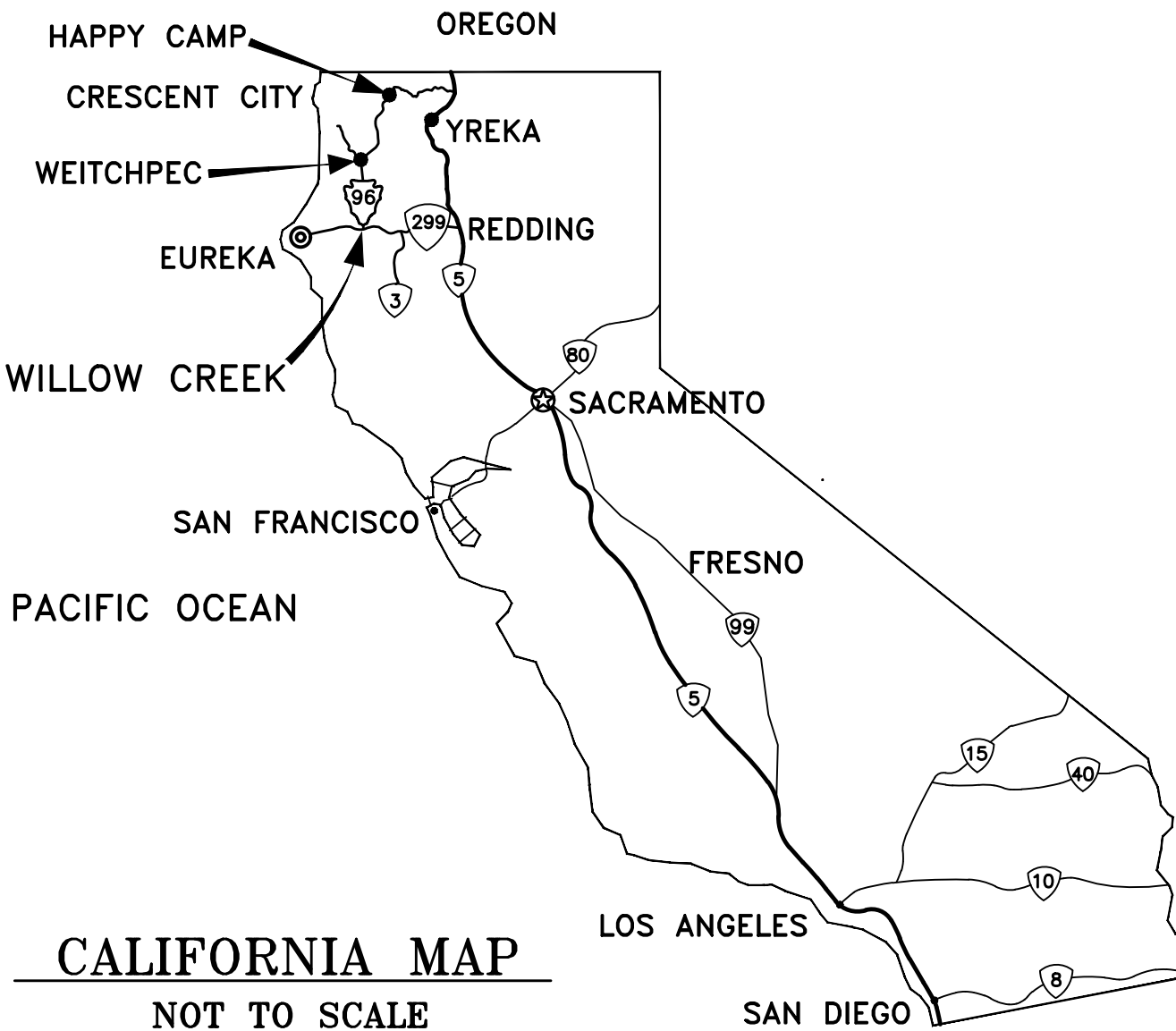
ABBREVIATIONS			
AC	ASPHALT CONCRETE	FM	FLOW METER
ACP	ASBESTOS CEMENT PIPE	FNC	FENCE
AD	AREA DRAIN, ALGEBRAIC DIFFERENCE IN GRADE	G	GAS SERVICE
AG	ABOVE GROUND	GO	GRADE
AGG.	AGGREGATE	GND	GROUND
APPROX.	APPROXIMATE	GV	GATE VALVE
B	BELL FITTING	H	HORIZONTAL
BIT	BITUMINOUS	HCCSD	HAPPY CAMP COMMUNITY SERVICES DISTRICT
BK	BACK	HCCSD	HAPPY CAMP SANITARY DISTRICT
BLD'G	BUILDING	HD	HEAD
BOW	BOTTOM OF WALL	HDPE	HIGH DENSITY POLYETHYLENE PIPE
BVCE	BEGIN VERTICAL CURVE ELEVATION	HORIZ	HORIZONTAL
BVCS	BEGIN VERTICAL CURVE STATION	HS	HIGH STRENGTH
BW	BACKWASH	HM	HUMBOLDT MERIDIAN
C	CIVIL	HWY	HIGHWAY
CT	CALTRANS	INT	INTERSECTION
CB	CATCH BASIN	INT-X	INTERSECTION
C.I.P.	CAST IN PLACE	INV.	INVERT
CL	CLASS	IRR.	IRRIGATION WATER LINE
CL	CENTERLINE	JB	ELECTRICAL JUNCTION BOX
CONC.	CONCRETE	K	VERTICAL CURVE COEFFICIENT
COR	CONTRACTING OFFICERS' REPRESENTATIVE	L	LENGTH
CMP	CORRUGATED METAL PIPE	L.F.	LINEAL FEET
CP	CONTROL POINT	LS	LICENSED SURVEYOR, LUMP SUM
D	DIAMETER	LT	LEFT
DIA	DIAMETER	MAX.	MAXIMUM
DIP	DUCTILE IRON PIPE	MIN.	MINIMUM
D.W. DWY	DRIVEWAY	MJ	MECHANICAL JOINT
DET	DETAIL	MOD	MODULAR, MODIFY
DH	DEPARTMENT OF HEALTH	MP	MILE MARKER POST
DI	DRAINAGE INLET	MSE	MECHANICALLY STABILIZED EARTH
DIA	DIAMETER	MTN	MOUNTAIN
DIM, DIMS	DIMENSIONS	NGS	NATIONAL GEODETIC SURVEY
(E), EXIST	EXISTING	N	NORTHING, NORTH
EA	EACH	NO	NUMBER
EG	EXISTING GROUND	NOTS	NOT TO SCALE
EL, ELEV	ELEVATION	OC	ON CENTER
EP	EDGE OF PAVEMENT	OHU	OVERHEAD UTILITY LINES
ET	ELECTRICAL TRANSFORMER	OUT	OUTLET
EVCE	END VERTICAL CURVE ELEVATION	PC	POINT OF CURVATURE
EVCS	END VERTICAL CURVE STATION	PERF	PERFORATED
EXC	EXCAVATION	P	POINT OF INTERSECTION
F/C	FACE OF CURB	P/L	PROPERTY LINE
FES	FLARED END SECTION	POB	POINT OF BEGINNING
FG	FINISH GRADE	POLY	POLYMER
FH	FIRE HYDRANT	PP	POWER POLE/UTILITY POLE
FHWA	FEDERAL HIGHWAY ADMINISTRATION	PRC	POINT OF REVERSE CURVE
FN	FINISH	PRV	PRESSURE RELIEF VALVE
FL	FLOW LINE, FOGLINE	PT	POINT OF TANGENCY
FLG	FLANGE FITTING	PVC	POINT OF VERTICAL CURVE
		PVI	POINT OF VERTICAL INTERSECTION
R	RADIUS, RANGE		
RD	ROAD		
RB	REBAR		
RCE	REGISTERED CIVIL ENGINEER		
RCP	REINFORCED CONCRETE PIPE		
RSE	REINFORCED SOIL EMBANKMENT		
RSP	ROCK SLOPE PROTECTION		
R/W	RIGHT OF WAY		
RD	ROAD		
RT	ROUTE, RIGHT		
RW	RAW WATER		
S	SLOPE, SOUTH		
SB	SET BACK		
SD	STORM DRAIN		
SEC	SECTION		
S.F.	SQUARE FEET		
SHT	SHEET		
SHLDR	SHOULDER		
SM	SIMILAR		
SL	STREET LIGHT		
SO	SQUARE		
SR	STATE ROUTE		
STA	STATION		
STD	STANDARD		
ST	SEPTIC TANK		
SW	SURFACE WASH		
T	TELEPHONE		
T, TEL	TO BE DETERMINED		
TBD	TO BE DETERMINED		
TC	TOP OF CONCRETE, TOP OF CURB		
THD	THREAD, THREADED		
TOW	TOP OF WALL		
TP	TOP OF ASPHALT PAVEMENT		
TYP	TYPICAL		
TVE	TRINITY VALLEY CONSULTING ENGINEERS		
TW	TOP OF CONC. WALK		
UG	UNDERGROUND		
UGV	UNDERGROUND VOLTAGE LINE		
VAR	VARIABLE		
VC	VERTICAL CURVE		
VERT	VERTICAL		
VOLTAGE	VOLTAGE		
W	WEST, WATER, WIDTH		
W/O	WITHOUT		
W	WITH		
WM	WATER METER		
WP	WEATHER PROOF		
WVR	WATER VALVE		
YR	YEAR		

APPROVAL BY: ERIN HILLMAN, KTHA EXECUTIVE DIRECTOR

APPROVAL BY: JOSHUA T. MCKNIGHT, RCE NO. 60687
PROJECT ENGINEER



Plans BY:
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67 WALNUT WAY/P.O. BOX 1567
WILLOW CREEK, CA 95573
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SKYLINE DEVELOPMENT
FOR
KARUK TRIBE
HOUSING AUTHORITY
Happy Camp, Siskiyou County, California



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 ANY APPLICABLE CONTRACT SPECIFICATIONS.
2. THE CONTRACTOR SHALL PROVIDE ALL UTILITIES AS NECESSARY TO SUCCESSFULLY COMPLETE ANY AND ALL CONSTRUCTION ACTIVITIES.
3. ALL EXISTING FENCES AND UTILITIES SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION OR BE REPLACED AT THE CONTRACTOR'S EXPENSE.
4. ALL EXISTING AND PROPOSED DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO STARTING WORK.
5. CONTRACTOR SHALL COORDINATE WITH PUBLIC WORKS DEPT. ON ALL CONSTRUCTION ACTIVITIES.

6. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITIES, WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE. ANY DAMAGE DONE 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.

7. 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, THE 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 SHOWN ON THESE DRAWINGS.

8. THE CONSTRUCTION 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 CONSTRUCTION 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.

9. TRAFFIC CONTROL FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FEDERAL HIGHWAY ADMINISTRATION STANDARD 635.

10. SAFE VEHICULAR AND PEDESTRIAN ACCESS SHALL BE PROVIDED AT ALL TIMES DURING CONSTRUCTION.

11. 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.

12. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FOR ENCROACHMENTS.

13. THESE PLANS ARE TO BE USED WITH THE LATEST EDITION OF CALTRANS STANDARD PLANS AND STANDARD SPECIFICATIONS; AND SISKIYOU COUNTY STANDARDS.

14. SAND SHALL NOT BE USED FOR PIPE BACKFILL OR BEDDING.

15. DROP INLET GRATES SHALL BE GALVANIZED AND BICYCLE PROOF.

16. CONCRETE DRIVEWAYS SHALL BE CONSTRUCTED PER SISKIYOU COUNTY STANDARDS.

17. PROPER HANDICAPPED ACCESS SHALL BE PROVIDED FOR ALL SIDEWALKS.

18. HANDICAP RAMPS SHALL BE CONSTRUCTED PER ADA STANDARDS.

19. UNDERGROUND NOTE:
DATA PERTAINING TO EXISTING UNDERGROUND FACILITIES AS INDICATED HEREIN IS FOR INFORMATION PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL AGENCIES INVOLVED AND SHALL LOCATE ALL FACILITIES PRIOR TO EXCAVATION IN ANY AREA. VERIFY LOCATIONS AND DEPTHS OF EXISTING FACILITIES PRIOR TO CONSTRUCTION OF NEW FACILITIES. NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES.

20. LAYOUT WORK (CONSTRUCTION STAKING) SHALL BE PERFORMED BY A PERSON PROPERLY LICENSED TO PERFORM CONSTRUCTION STAKING IN THE STATE OF CALIFORNIA.

21. CONTRACTORS SHALL POSSESS THE PROPER CONTRACTOR'S LICENSE.

22. AN ENCROACHMENT PERMIT SHALL BE OBTAINED FROM APPLICABLE AGENCIES FOR ANY WORK WITHIN COUNTY OR STATE RIGHT OF WAY.

23. NO WATER JETTING PERMITTED.

24. MISCELLANEOUS IRON SHALL BE GALVANIZED (EXCEPT MANHOLE COVERS).

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 AREA 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. PRIOR TO RAIN 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 AREA 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 THE 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.

SAW CUTTING & PAVEMENT REMOVAL:

1. SAW CUT EXISTING ASPHALT PAVEMENT WHERE OLD ASPHALT IS TO TIE INTO NEW ASPHALT. TAPER NEW ASPHALT SURFACING TO MATCH THE EXISTING SURFACE SECTION AT THE POINT OF TIE IN TO PROVIDE FOR A SMOOTH TRANSITION. THIS WORK SHALL BE INCIDENTAL TO ASPHALT.
2. REMOVE AND DISPOSE OF REMOVED ASPHALT OR CHIP SEAL AT THE BEGINNING OF THE PROJECT AND IN STRICT ACCORDANCE WITH APPLICABLE RULES AND REGULATIONS FOR SUCH REMOVAL, TRANSPORT, AND DISPOSAL. WORK SHALL BE INCIDENTAL TO CHIP SEALING.

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.

STREETS & DRIVEWAYS

1. AGGREGATE BASE SHALL BE CLASS 3 AND SHALL CONFORM TO THE CALTRANS STANDARD SPECIFICATIONS. THE AGGREGATE BASE SHALL BE PLACED AND COMPACTED IN ACCORDANCEWITH CALTRANS SPECIFICATIONS.
2. ASPHALT CONCRETE SHALL CONFORM TO TYPE B, 1/2" MAXIMUM, MEDIUM GRADATION. THE MIX AND GRADATION USED SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER. THE ASPHALT CONCRETE SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH CALTRANS STANDARD SPECIFICATIONS.
3. STRIPING AND SIGNING SHALL CONFORM TO CALTRANS SPECIFICATIONS.

STORM DRAINS

1. EXCAVATION AND BACKFILL OF STORM DRAINS, WILL BE CONSIDERED INCIDENTAL TO INSTALLATION OF THE STORM DRAIN. THEREFORE, NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK.
2. STORM DRAIN PIPE SHALL BE SMOOTH INTERIOR WALL, TYPE S CORRUGATED POLYETHYLENE PIPE. PIPE SHALL BE AS SPECIFIED IN AASHTO DESIGNATION : M 294 , MANUFACTURED FROM HIGH DENSITY POLYETHYLENE (HDPE) VIRGIN COMPOUNDS. THE CELL CLASSIFICATION SHALL BE 324420C PER ASTM D3350 OR HIGHER. THE PIPE SHALL BE ADS N-12 OR APPROVED EQUAL.
3. PIPE JOINTS SHALL BE WATER TIGHT. THE JOINT SHALL BE EITHER: INTEGRAL BELL COUPLERS WITH O-RING GASKET ON SPIGOT, ADS N-12 PRO LINK ULTRA WT PIPE, OR BELL/BELL COUPLERS WITH O-RING GASKET, ADS PRO LINK WT OR APPROVED EQUAL. JOINTS SHALL BE ASSEMBLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

WATER PIPE

1. WATER PIPE - PVC, C900, 150 PSI. - J-M "BLUE BRUTE" OR APPROVED EQUAL OR AS DIRECTED.

UTILITIES

WATER HAPPY CAMP COMMUNITY SERVICES DISTRICT (HCCSD)
SEWER HAPPY CAMP SANITARY DISTRICT (HCSD)
POWER PACIFICORP (PACIFIC POWER & LIGHT)
GAS -
PHONE VERIZON

SUMMARY OF QUANTITIES

NO.	ITEM / DESCRIPTION	UNIT	PLAN QUANTITY TOTAL
001	MOBILIZATION / DEMOBILIZATION	LS	1
002	CLEARING AND GRUBBING	LS	1
003	HOT MIX ASPHALT CONCRETE (HMAC) 150#/CU. FT.	TON	329
004	CONCRETE CURB & GUTTER (ROLLED CURB)	L.F.	1,518
005	CONCRETE CURB & GUTTER (CALTRANS A2-6)	L.F.	67
006	CONCRETE SIDEWALK	S.F.	7,993
007	CONCRETE DRIVEWAYS (4" THICK CONC.)	S.F.	5,069
008	CONCRETE VALLEY GUTTER	S.F.	300
009	CLASS 2 AGGREGATE BASE (BENEATH HMAC ROADWAY) 145#/ CU. FT.	TON	500
010	CLASS 2 AGGREGATE BASE (BENEATH CONC. CURB & SIDEWALK)	TON	284
011	CLASS 2 AGGREGATE BASE (BENEATH CONC. DRIVEWAYS)	TON	143
012	CLASS 2 AGGREGATE BASE (BENEATH VALLEY GUTTER)	TON	7
013	CONNECT NEW 6" C900 WATERLINE TO EXISTING 8" WATERLINE	L.S.	1
014	CONNECT NEW 6" WATERLINE TO EXISTING 4" WATERLINE	L.S.	1
015	6" C900 WATERLINE	L.F.	793
016	1" PE 3036 WATERLINE (LATERALS)	L.F.	-
017	WATER METERS	EA.	6
018	6" WATER VALVE	EA.	2
019	4" WATER VALVE	EA.	1
020	8" SDR26 SEWER LINE	L.F.	555
021	2" PVC SCH 80 PRESSURE SEWER LINE	L.F.	500
022	4" SDR26 SEWER LATERALS	EA.	9
023	STANDARD SANITARY SEWER MANHOLE	EA.	2
024	SANITARY SEWER LIFT DOSING TANK & (2)PUMPS	L.S.	1
025	SANITARY SEWER LIFT STATION CONTROL BUILDING	L.S.	1
026	SANITARY SEWER LIFT STATION 7.5KW BACKUP GENERATOR	EA.	1
027	150 GALLON PROPANE TANK ON CONC. PAD	EA.	1
028	CALTRANS G6 STORM DRAIN INLET	EA.	1
028	24" STORM DRAIN PIPE	L.F.	1
029	24" STORM DRAIN INFILTRATION SYSTEM	L.S.	1
030	ELECTRIC PULLBOX VAULT	EA.	1
031	ELECTRIC TRANSFORMER	EA.	1
032	COMMUNICATIONS	L.S.	1
033	SIGNING & STRIPING	L.S.	1
034	6' HIGH WOOD FENCE	L.F.	1,920
035	4' WIDE MAN GATES IN WOOD FENCE	EA.	12
036	EROSION CONTROL	L.S.	1

THE APPROXIMATE EARTHWORK QUANTITIES ARE AS FOLLOWS:

SITE	EXCAVATION YD ³	EMBANKMENT YD ³
SKYLINE COURT	673	1,753
LOTS 3	0	92
LOTS 5 THRU 8	0	2,861
SUBTOTALS		4,706
SHRINKAGE ASSUMED AT 25%		1,177
Totals	673	5,883

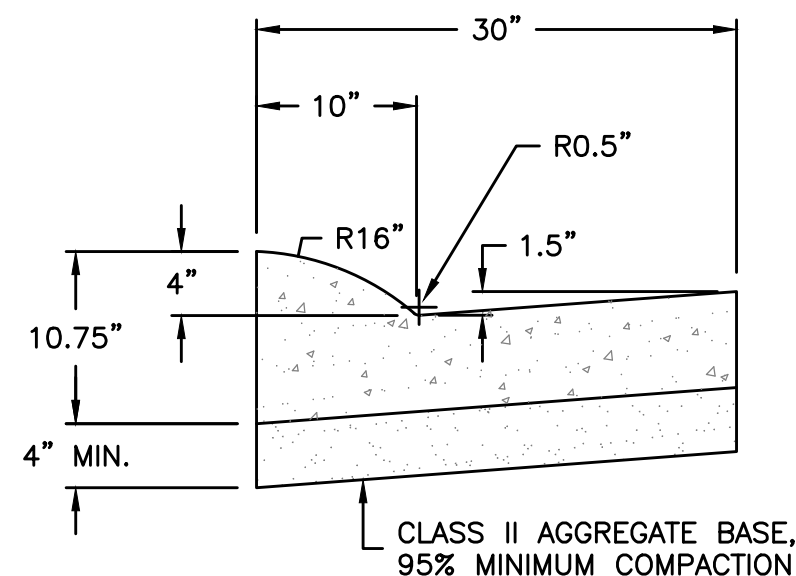
The quantities for earthwork are calculated by Existing & Subgrade Surface Comparison. No allowance has been made for strippings, keying and benching and storm drain installation. These quantities do not include overexcavation. These quantities are believed to be accurate but no assurance is made therefore. The Contractor shall be responsible for familiarizing himself as to the type, nature and quantities of materials to be excavated.

EARTHWORK NOTE: ON TRIBE & ENGINEER'S APPROVAL BORROW MATERIAL SHALL TO BE TAKEN FROM LOT #1, #2, & LOT # 10 FOR FILL MATERIAL AT LOTS 3 THRU 6.

SURVEY CONTROL				
POINT NO	NORTHING	EASTING	ELEVATION	DESCRIPTION
50	2539371.7720	6187109.7650	1122.2900	12IN SPIKE
51	2539590.8000	6186869.8490	1129.0400	60DNAIL
52	2539740.3940	6186825.6580	1128.3300	3/4IN PIPE

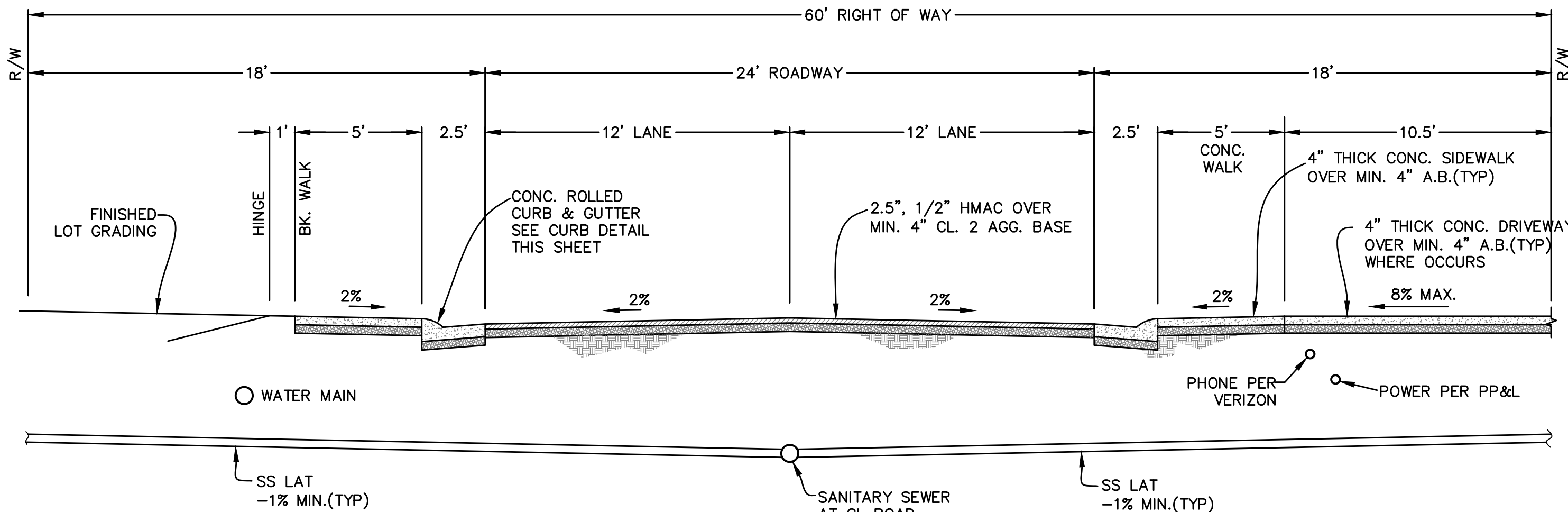
SURVEY NOTE

TOPOGRAPHY SURVEY BY TRINITY VALLEY CONSULTING ENGINEERS, INC.



CONC. ROLLED CURB

H: 1" = 1'



SKYLINE COURT TYPICAL SECTION

H: 1" = 4'

REVISIONS

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PHONE (530) 629-3000

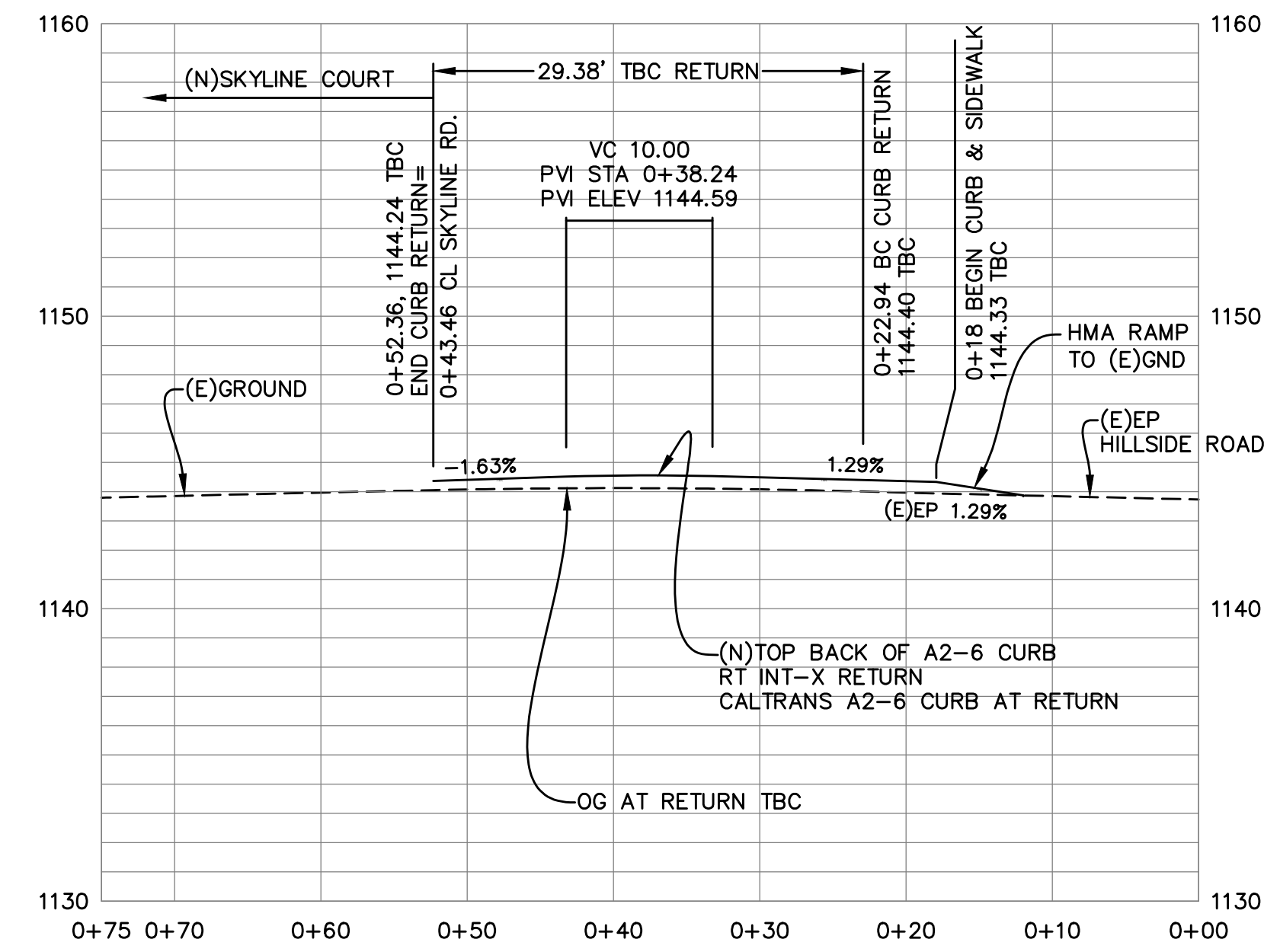


SKYLINE DEVELOPMENT

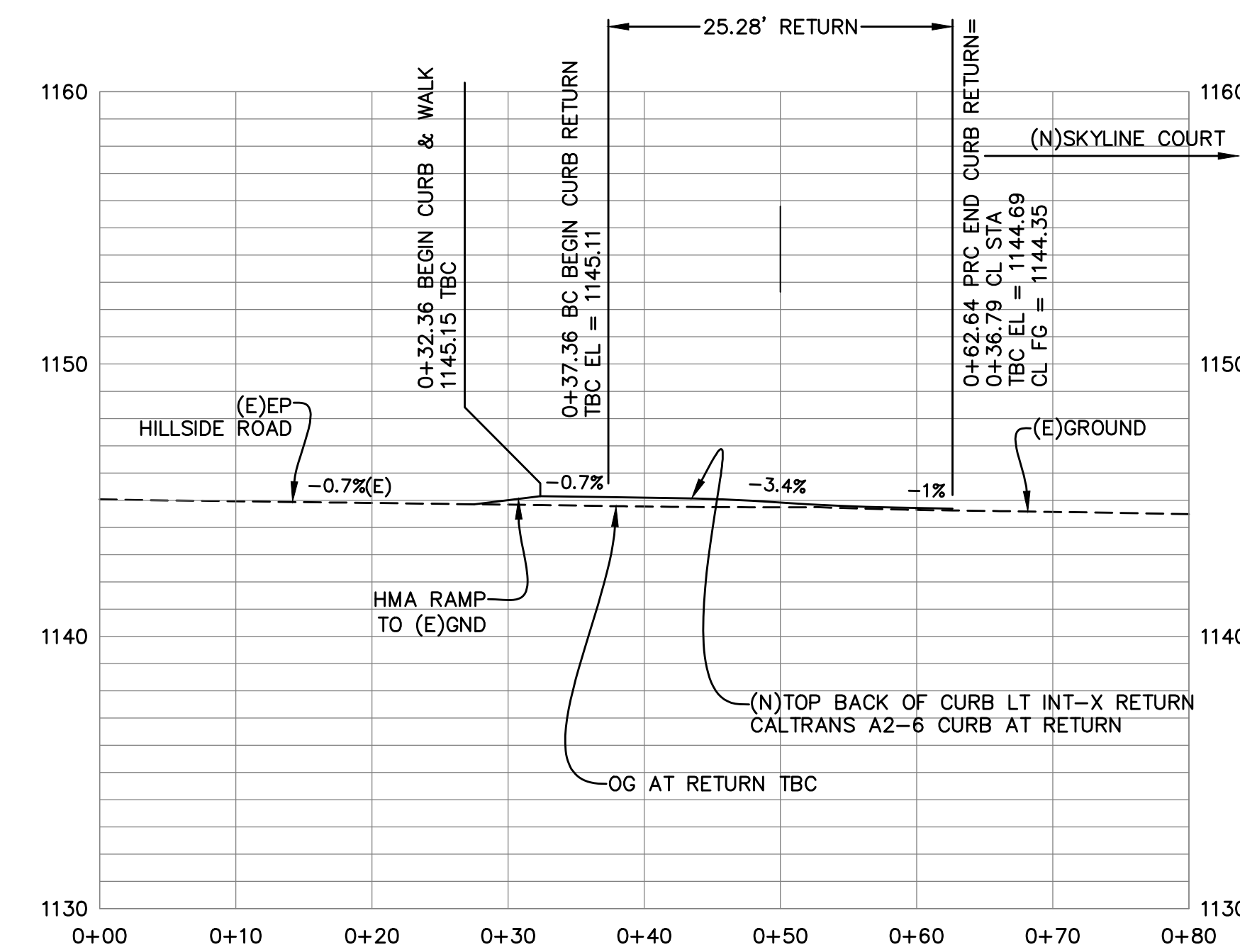
NOTES, QUANTITIES & TYPICAL SECTIONS

DESIGN BY:	TVCE
DRAWN BY:	SG
CHECKED BY:	FM
DATE:	SEPTEMBER 22, 2023
SCALE:	NO SCALE
PROJECT NO:	236.10

C2



H: 1" = 10'
V: 1" = 5'

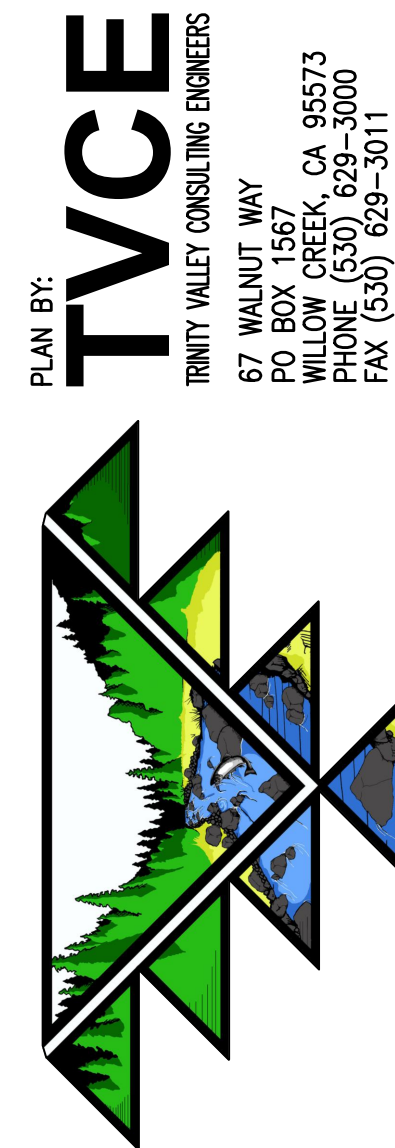


H: 1" = 10'

V: 1" = 5'

Curve Table: SKYLINE COURT INTERSECTION CURB RETURNS					
Curve #	Radius	Length	Chord Direction	Start Point (N, E)	End Point (N, E)
C7	17.500	25.288	S47° 07' 28.32"E	(2539927.45, 6186626.46)	(2539911.70, 6186643.42)
C8	17.500	29.388	N45° 55' 08.66"E	(2539864.30, 6186629.98)	(2539882.42, 6186648.70)

REVISIONS



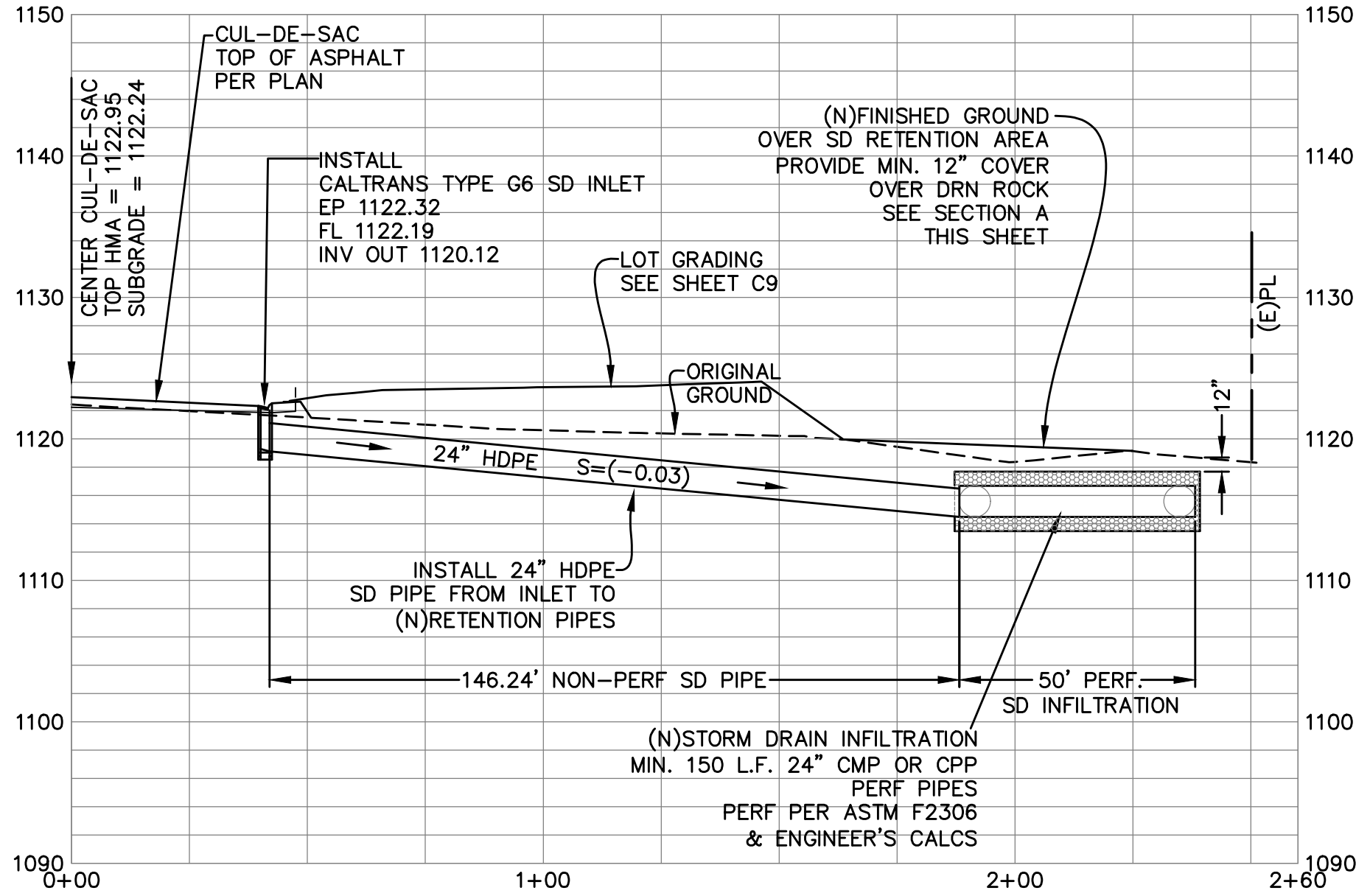
SKYLINE DEVELOPMENT

INTERSECTION DETAIL

DESIGN BY:	TVCE
DRAWN BY:	SG
CHECKED BY:	FM
DATE:	SEPTEMBER 22, 2023
SCALE:	1" = 10'
PROJECT NO:	236.10

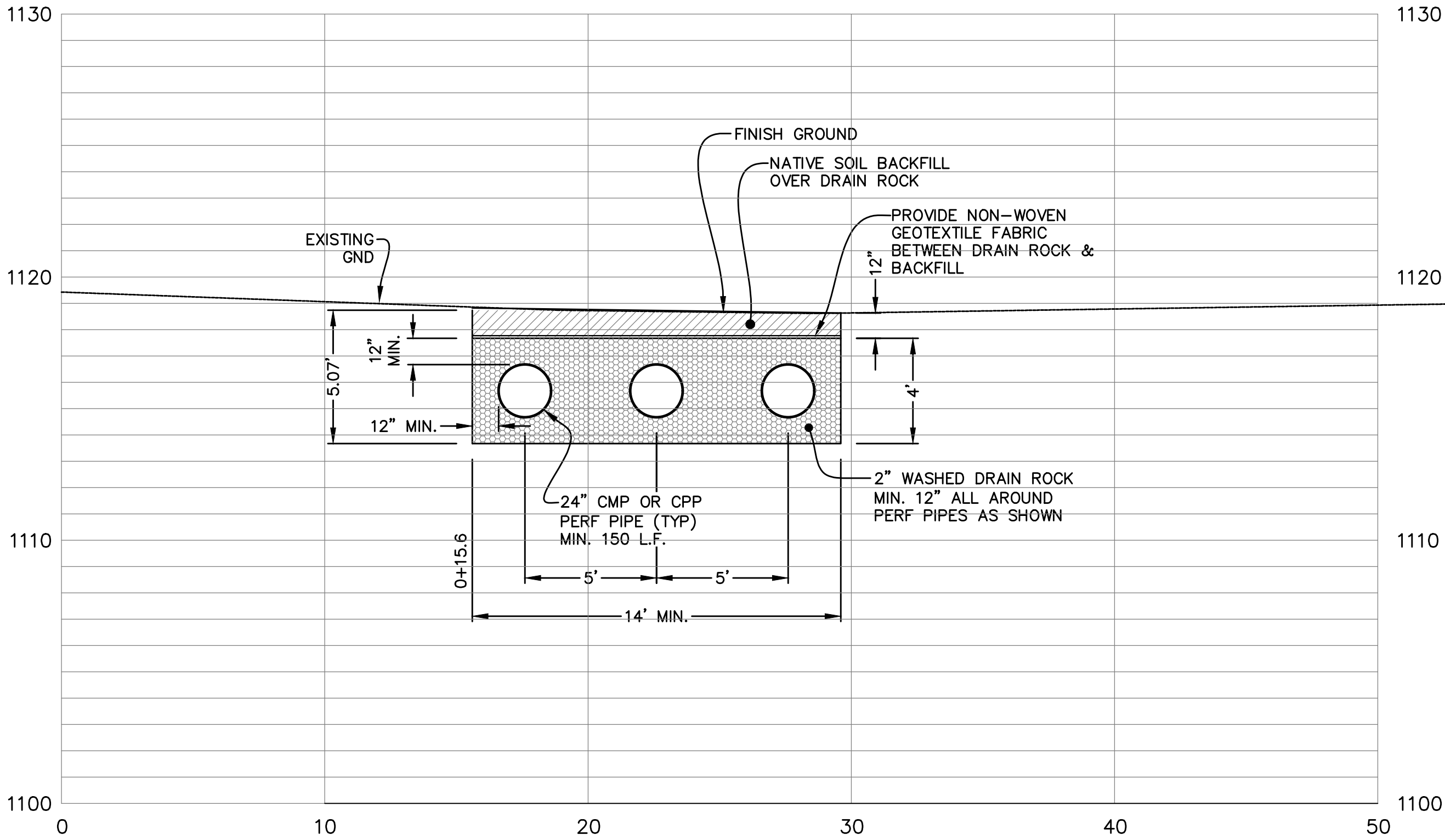
Curve Table: SKYLINE COURT CUL-DE-SAC TOP BACK OF CURB					
Curve #	Radius	Length	Chord Direction	Start Point (N, E)	End Point (N, E)
C4	17.500	17.645	S05° 28' 29.55"E	(2539441.82, 6187035.88)	(2539424.99, 6187037.49)
C5	42.500	219.220	N55° 38' 26.15"E	(2539424.99, 6187037.49)	(2539450.57, 6187074.91)
C6	17.500	17.645	N63° 14' 38.13"W	(2539450.57, 6187074.91)	(2539458.18, 6187059.82)

CURVE DATA
SKYLINE ROAD CUL-DE-SAC TOP BACK OF CURB



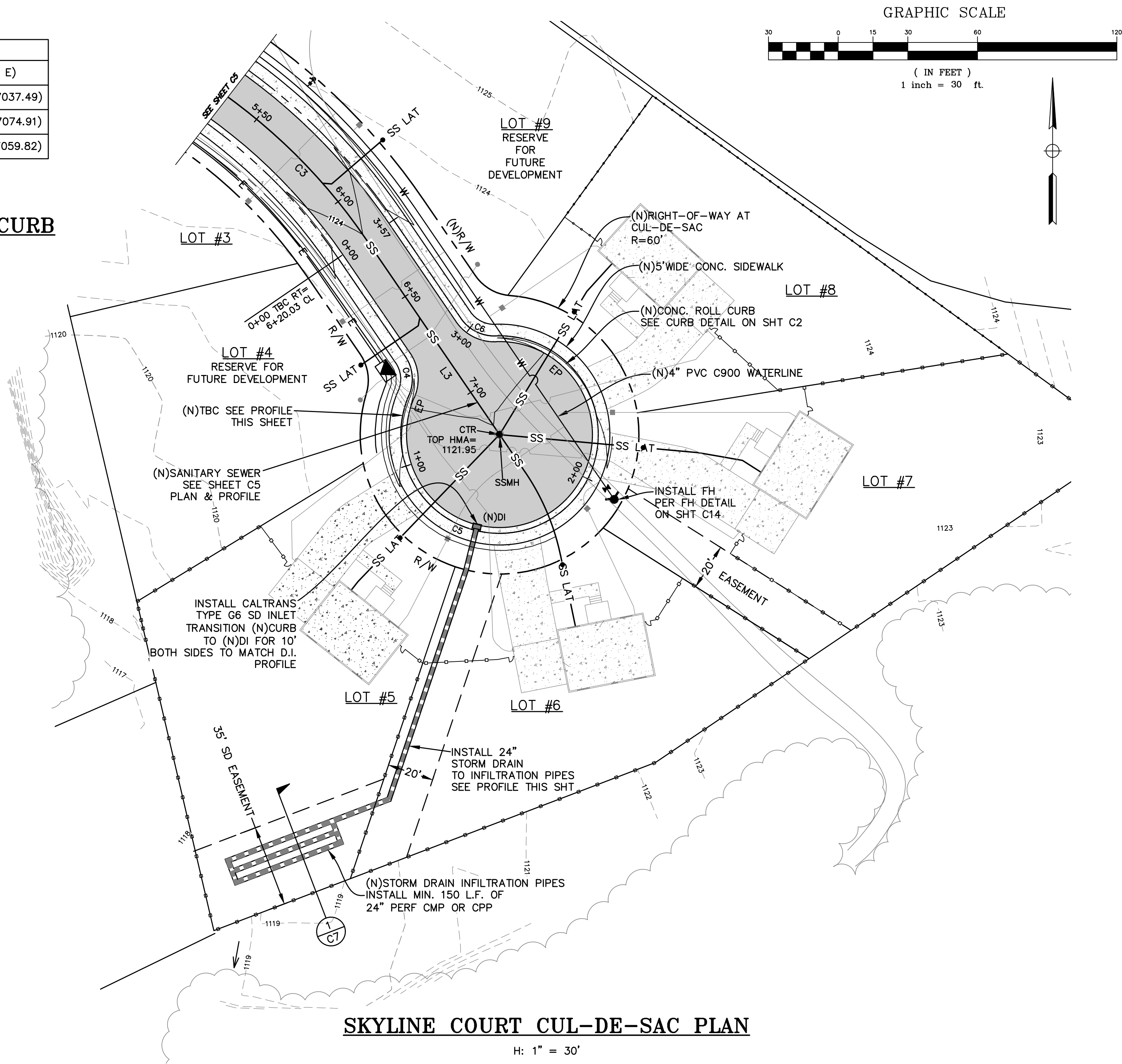
STORM DRAIN PROFILE

H: 1" = 30'
V: 1" = 10'



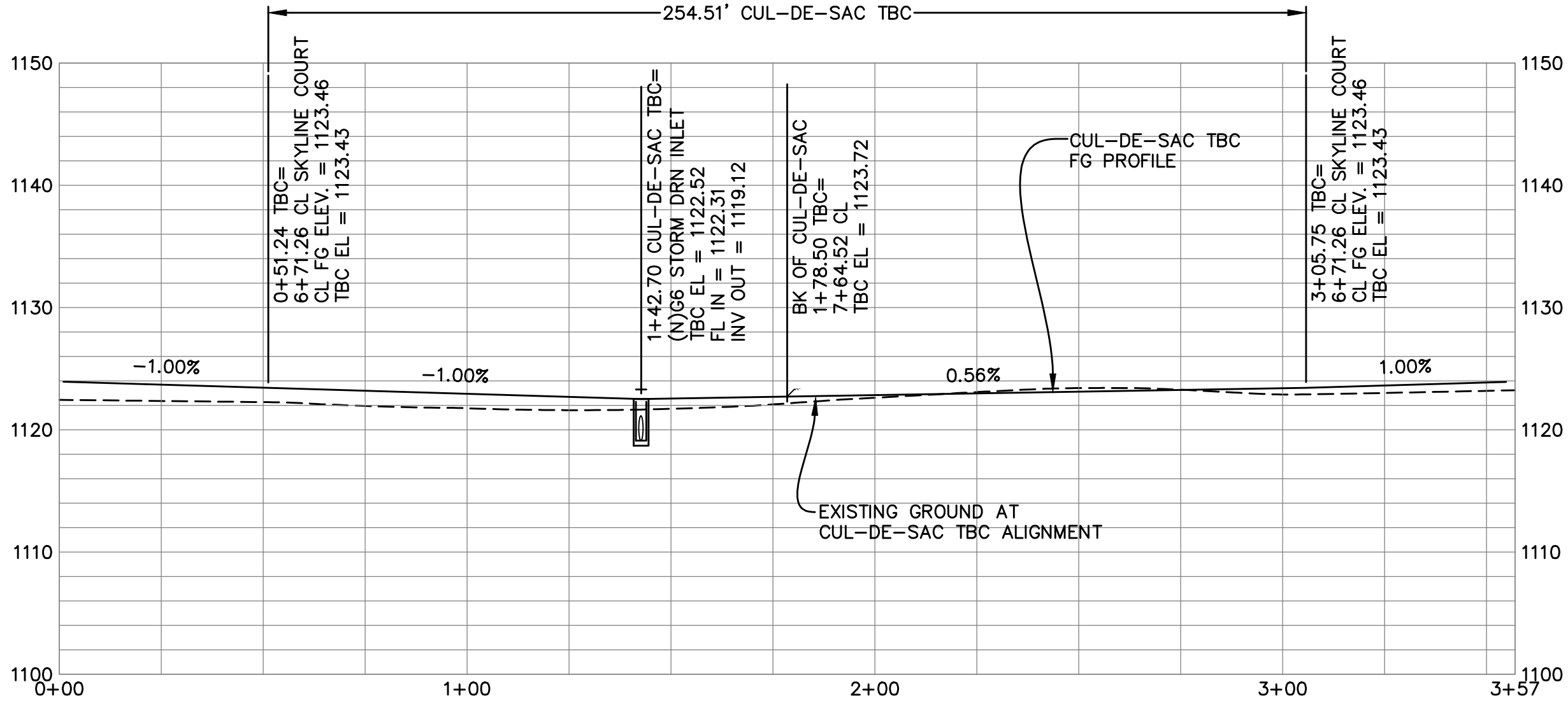
STORM DRAIN INFILTRATION SECTION 1

H: 1" = 4'
V: 1" = 4'



SKYLINE COURT CUL-DE-SAC PLAN

H: 1" = 30'



SKYLINE COURT CUL-DE-SAC TOP BACK OF CURB PROFILE

H: 1" = 30'
V: 1" = 10'

REVISIONS

PLAN BY: TVCE

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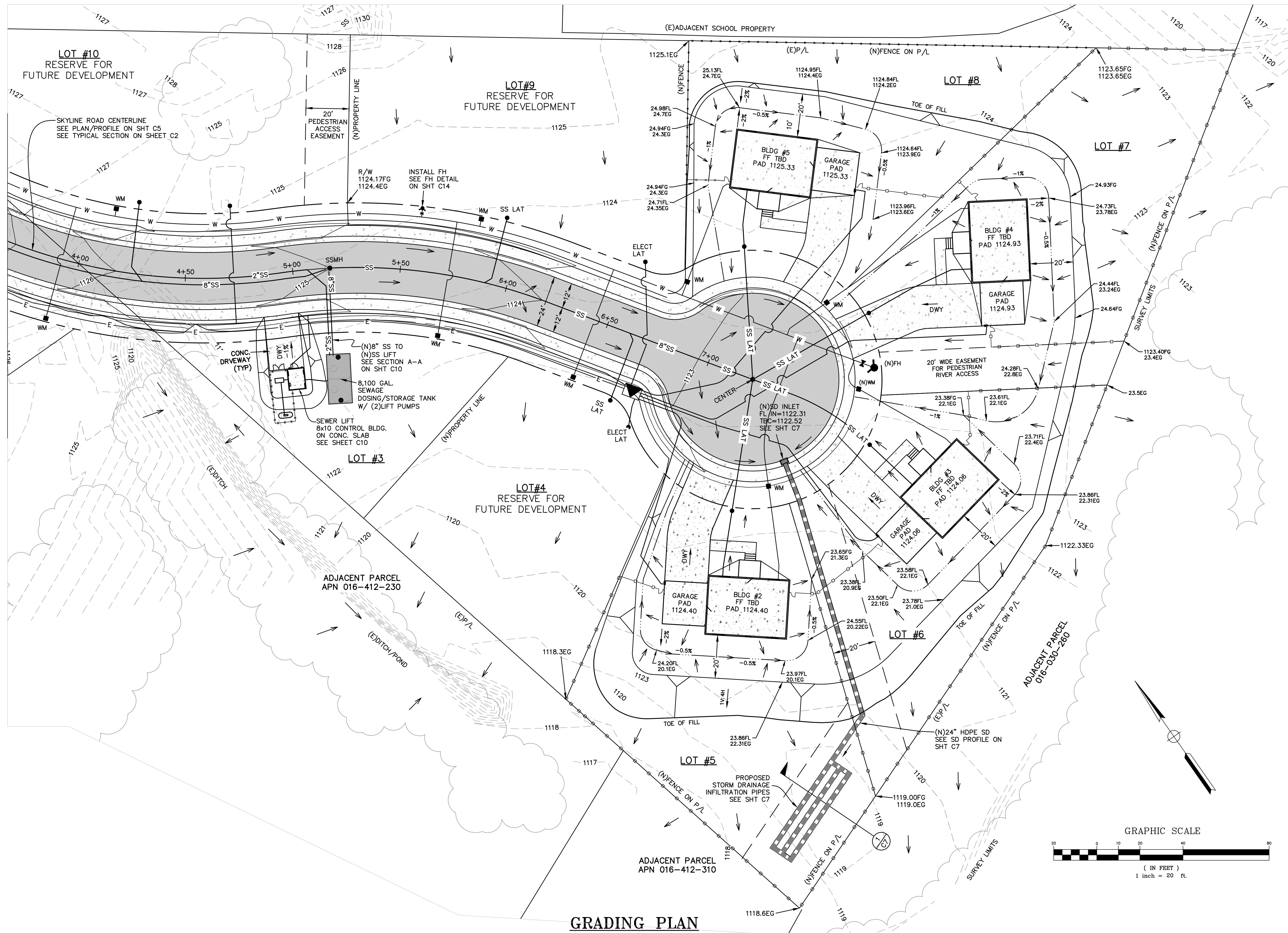
SKYLINE DEVELOPMENT

SKYLINE COURT
CUL-DE-SAC DETAIL &
STORM DRAIN PROFILE

DESIGN BY: TVCE
DRAWN BY: SG
CHECKED BY: FM
DATE: SEPTEMBER 22, 2023
SCALE: AS SHOWN
PROJECT NO: 236.10

C7

SEE SHEET C8



GRADING PLAN

H: 1" = 20'

REVISIONS

PLAN BY: TVCE
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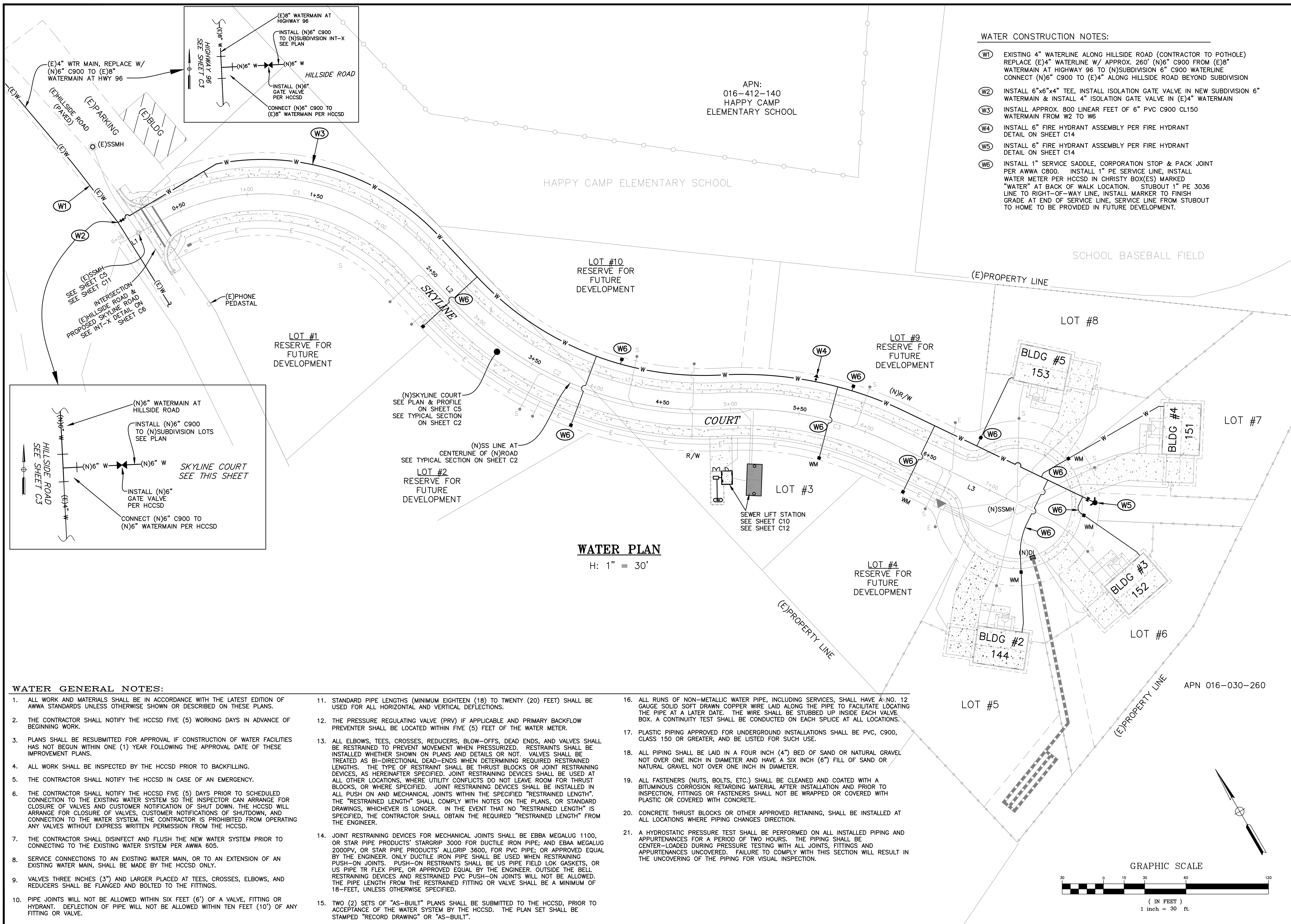


SKYLINE DEVELOPMENT

GRADING PLAN

DESIGN BY: TVCE
DRAWN BY: SG
CHECKED BY: FM
DATE: SEPTEMBER 22, 2023
SCALE: H: 1" = 20'
PROJECT NO: 236.10

C10

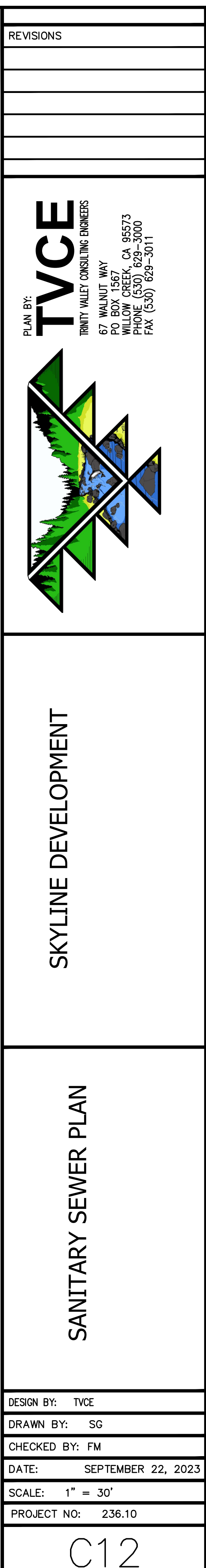
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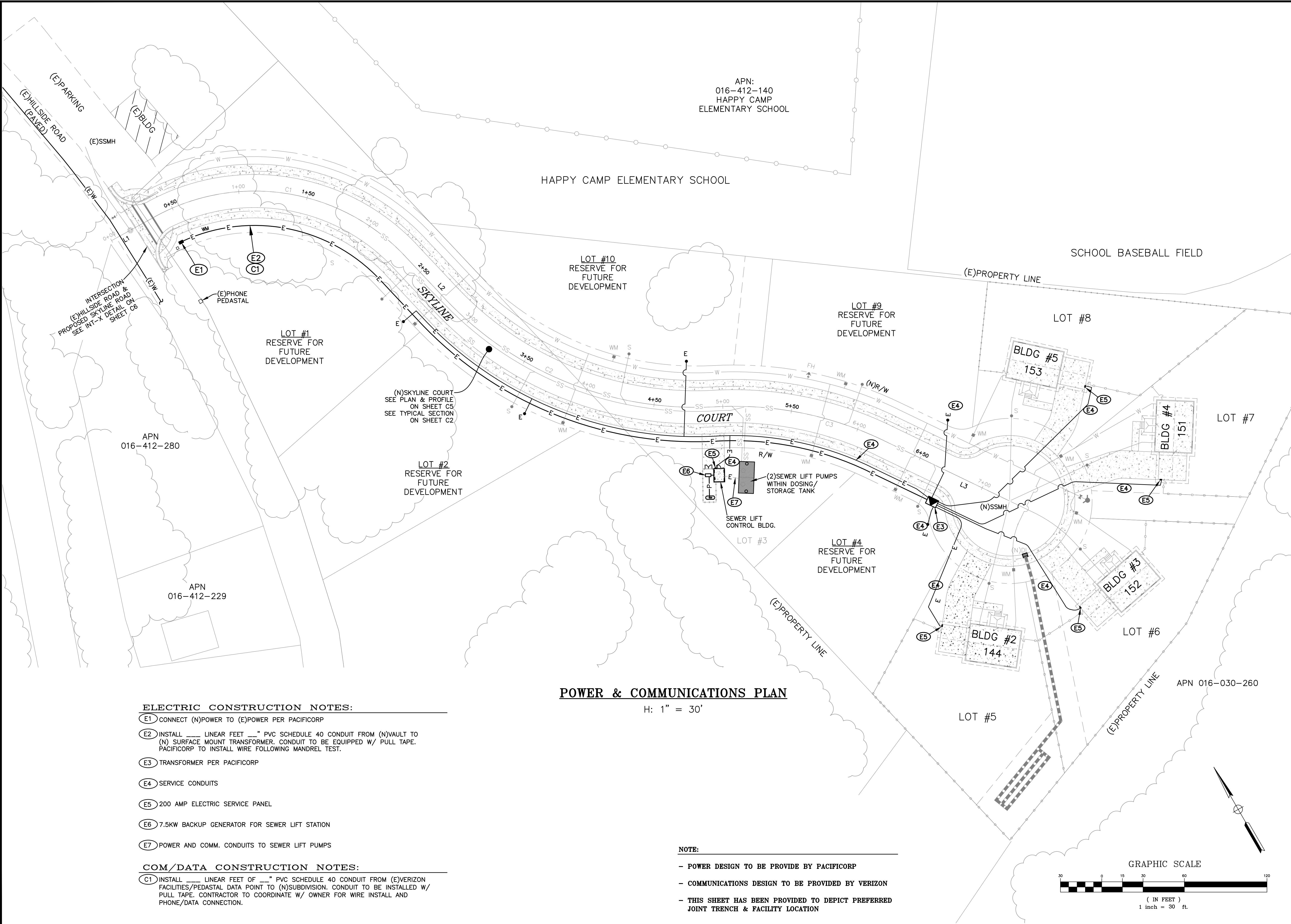
SKYLINE DEVELOPMENT

WATER PLAN

DESIGN BY:	TVCE
DRAWN BY:	SG
CHECKED BY:	FM
DATE:	SEPTEMBER 22, 2023
SCALE:	1" = 30'
PROJECT NO:	236.10

C11





ELECTRIC CONSTRUCTION NOTES:

- (E1) CONNECT (N)POWER TO (E)POWER PER PACIFICORP
- (E2) INSTALL ____ LINEAR FEET ____" PVC SCHEDULE 40 CONDUIT FROM (N)VAULT TO (N) SURFACE MOUNT TRANSFORMER. CONDUIT TO BE EQUIPPED W/ PULL TAPE. PACIFICORP TO INSTALL WIRE FOLLOWING MANDREL TEST.
- (E3) TRANSFORMER PER PACIFICORP
- (E4) SERVICE CONDUITS
- (E5) 200 AMP ELECTRIC SERVICE PANEL
- (E6) 7.5KW BACKUP GENERATOR FOR SEWER LIFT STATION
- (E7) POWER AND COMM. CONDUITS TO SEWER LIFT PUMPS

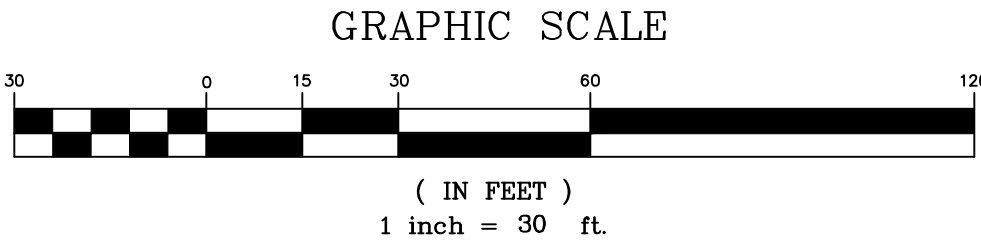
COM/DATA CONSTRUCTION NOTES:

- (C1) INSTALL ____ LINEAR FEET OF ____" PVC SCHEDULE 40 CONDUIT FROM (E)VERIZON FACILITIES/PEDASTAL DATA POINT TO (N)SUBDIVISION. CONDUIT TO BE INSTALLED W/ PULL TAPE. CONTRACTOR TO COORDINATE W/ OWNER FOR WIRE INSTALL AND PHONE/DATA CONNECTION.

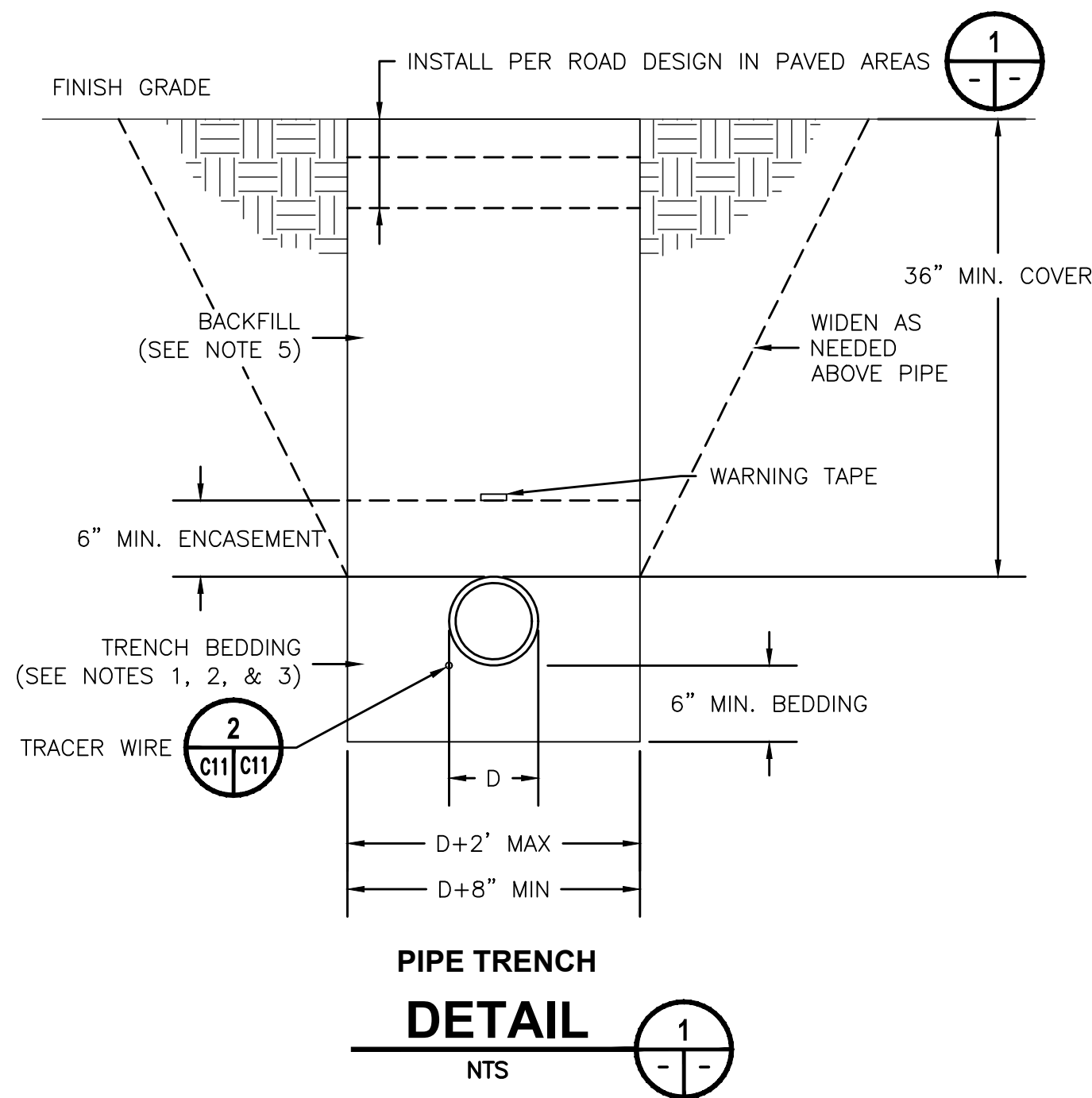
POWER & COMMUNICATIONS PLAN

H: 1" = 30'

- NOTE:**
- POWER DESIGN TO BE PROVIDE BY PACIFICORP
 - COMMUNICATIONS DESIGN TO BE PROVIDED BY VERIZON
 - THIS SHEET HAS BEEN PROVIDED TO DEPICT PREFERRED JOINT TRENCH & FACILITY LOCATION

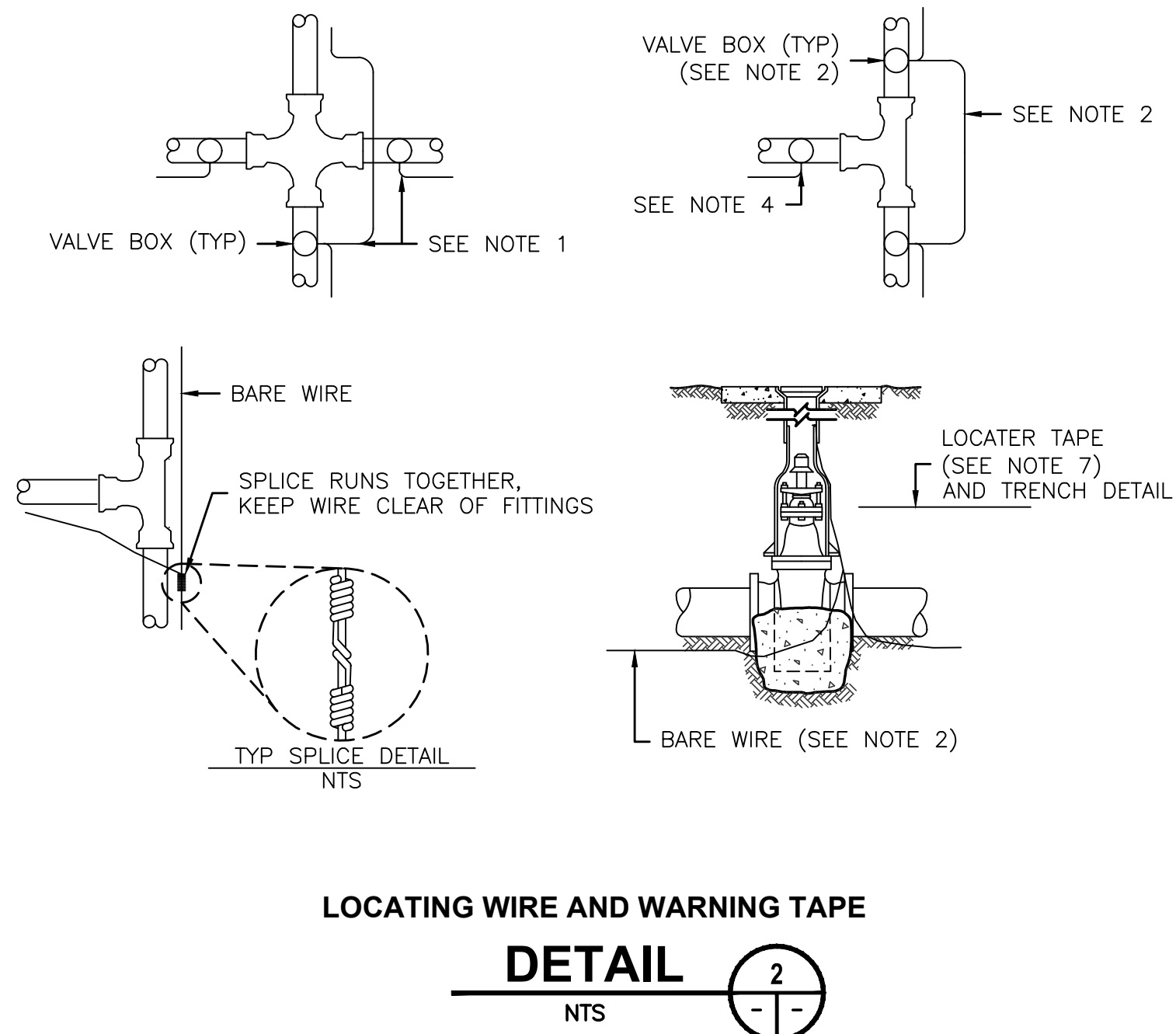


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PLAN BY: TVCE TRINITY VALLEY CONSULTING ENGINEERS 67 WALNUT WAY PO BOX 1567 WILLOW CREEK, CA 95573 PHONE (530) 629-3000 FAX (530) 629-3011 	
SKYLINE DEVELOPMENT	
POWER & COMMUNICATIONS PLAN	
DESIGN BY: TVCE	CHECKED BY: FM
DRAWN BY: SG	DATE: FEBRUARY 17, 2016
SCALE: 1" = 30'	PROJECT NO: 236.10
C13	



PIPE TRENCH NOTES:

- BACKFILL BY HAND, COMPACT OR CONSOLIDATE TO PROVIDE SOLID BEDDING UNDER AND AROUND PIPE.
- BEDDING MATERIAL SHALL BE GRAVEL 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 3" 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 II AGGREGATE BASE. BASE CONSOLIDATION SHALL BE 95% RELATIVE COMPACTION PER ASTM 2922. A 2-SACK CONCRETE SLURRY MAY BE USED N PLACE OF AB.



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.

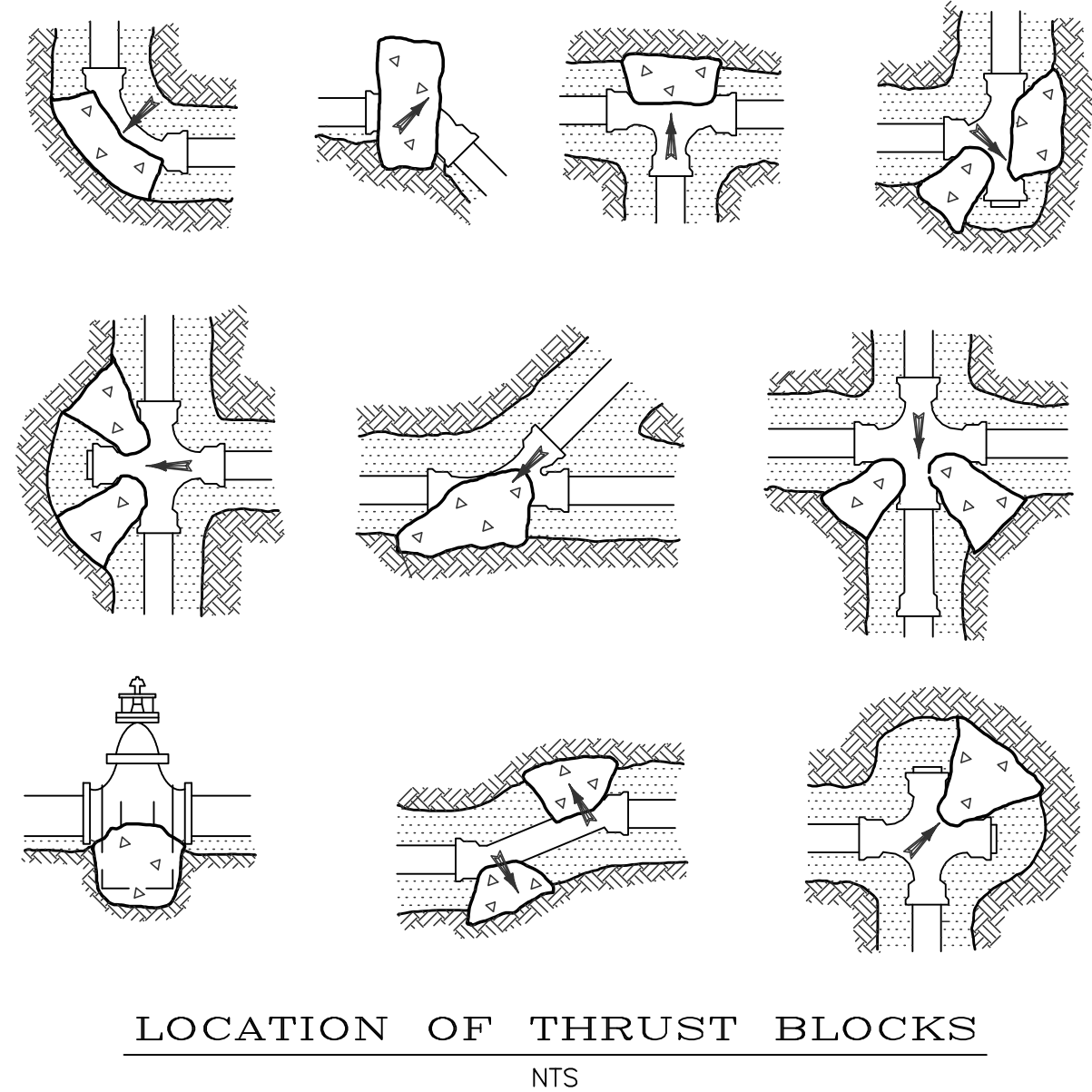
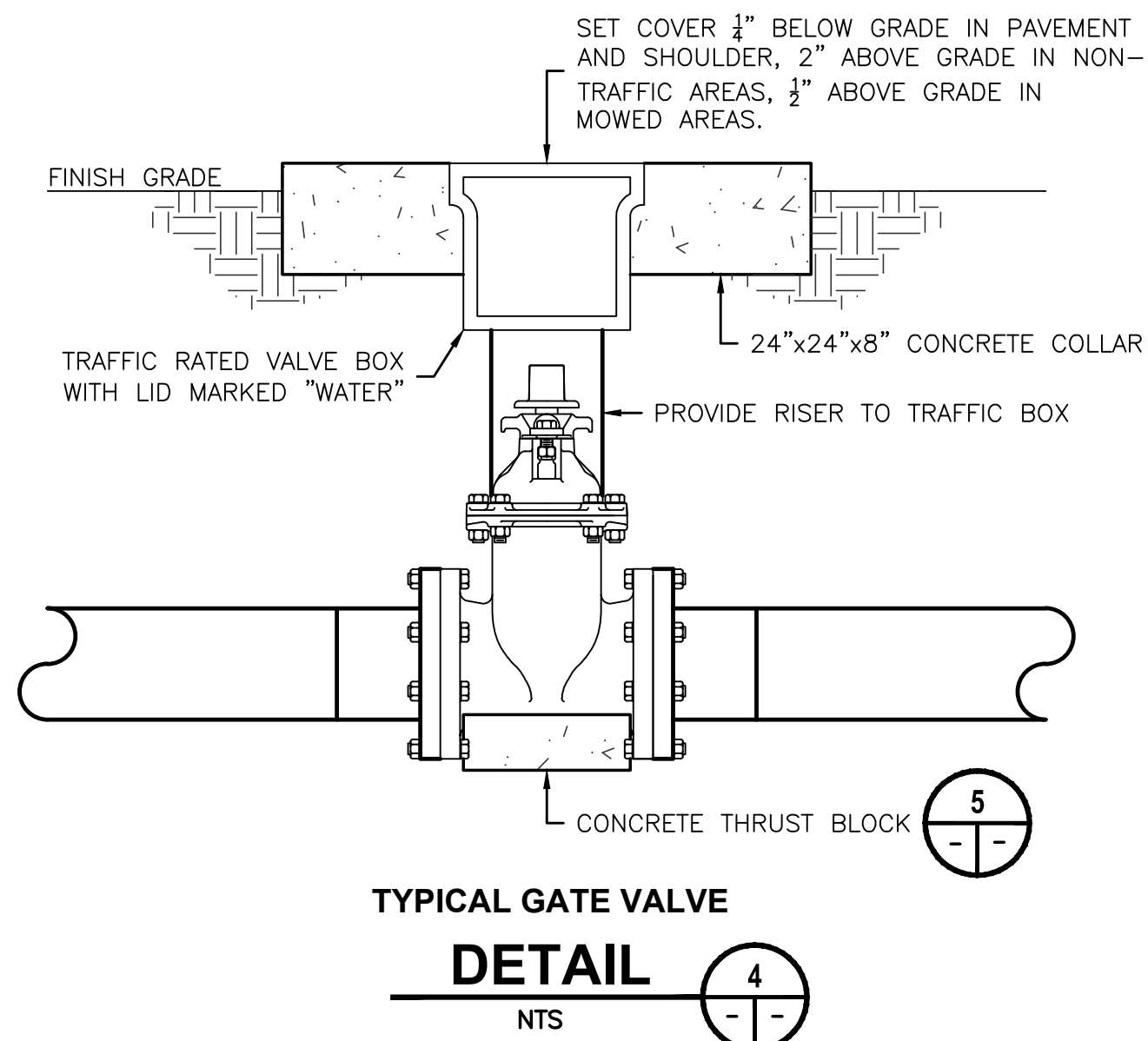
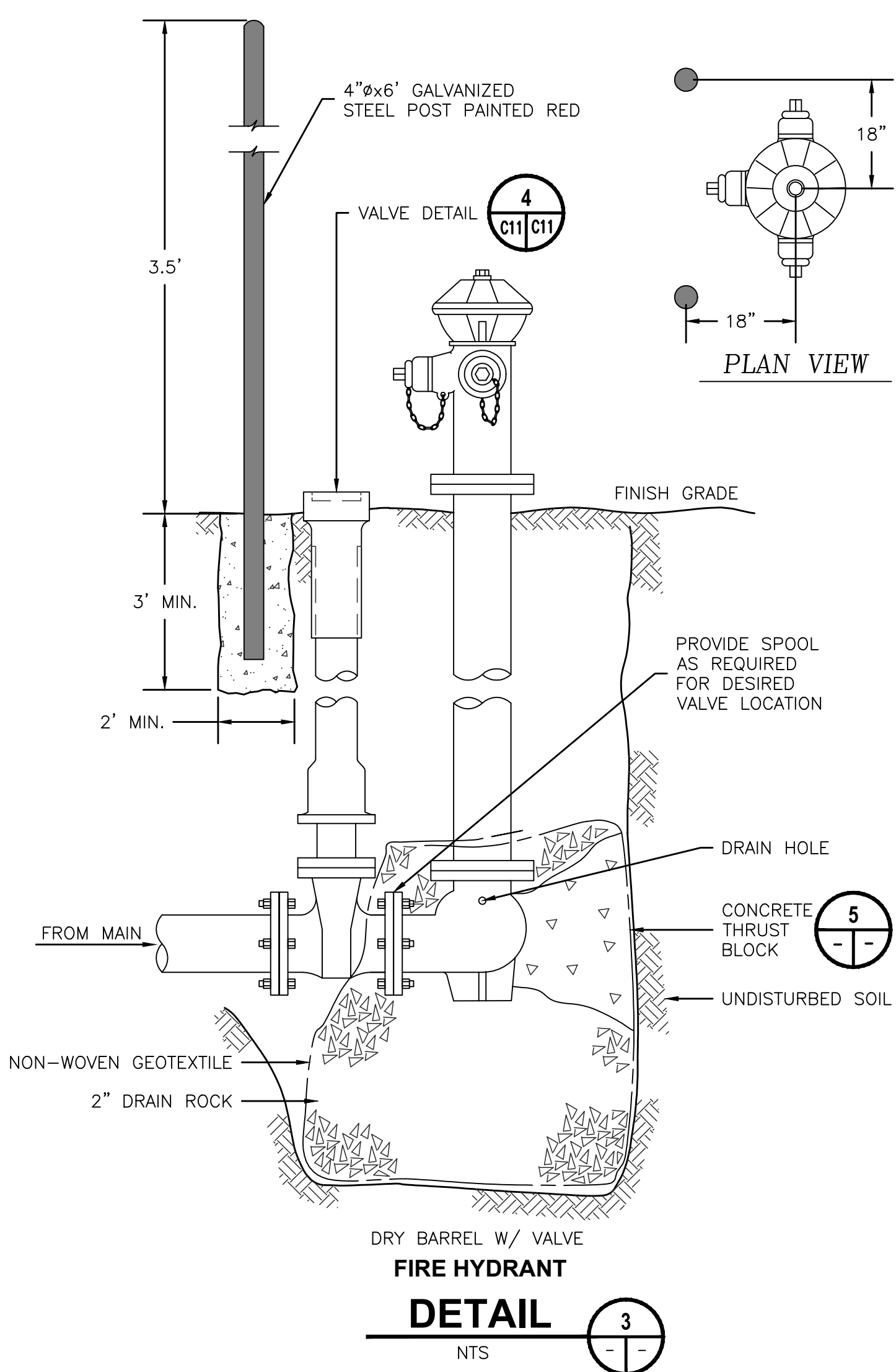


TABLE I THRUST(T) AT FITTINGS, IN POUNDS AT 100 PSI WATER PRESSURE					
PIPE SIZE	TEE OR DEAD END	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
1 1/2"	284	401	217	111	56
2"	443	627	339	173	87
2 1/2"	649	918	497	253	127
3"	962	1361	736	375	189
4"	1810	2559	1385	706	355
6"	3739	5288	2862	1459	733
8"	6433	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)		$A_{SB} = \frac{T}{B} \times \frac{P.T}{100}$
SOIL	SAFE BEARING LOAD, POUNDS PER SQ. FT.	
SOUND SHALE	10000	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
CEMENTED SAND AND GRAVEL	4000	
COARSE AND FINE COMPACTED SAND	3000	
MEDIUM CLAY (CAN BE SPADED)	2000	
SOFT CLAY	1000	
MUCK	0	

THRUST BLOCK SIZING
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.

THRUST BLOCK
DETAIL 5. NTS

REVISIONS

PLAN BY: TVCE

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SKYLINE DEVELOPMENT

WATER DETAILS

DESIGN BY: TVCE

DRAWN BY: SG

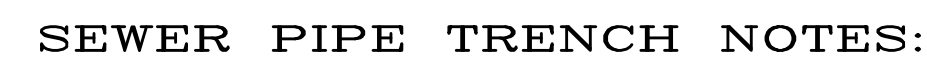
CHECKED BY: FM

DATE: SEPTEMBER 22, 2023

SCALE: AS SHOWN

PROJECT NO: 236.10

C15



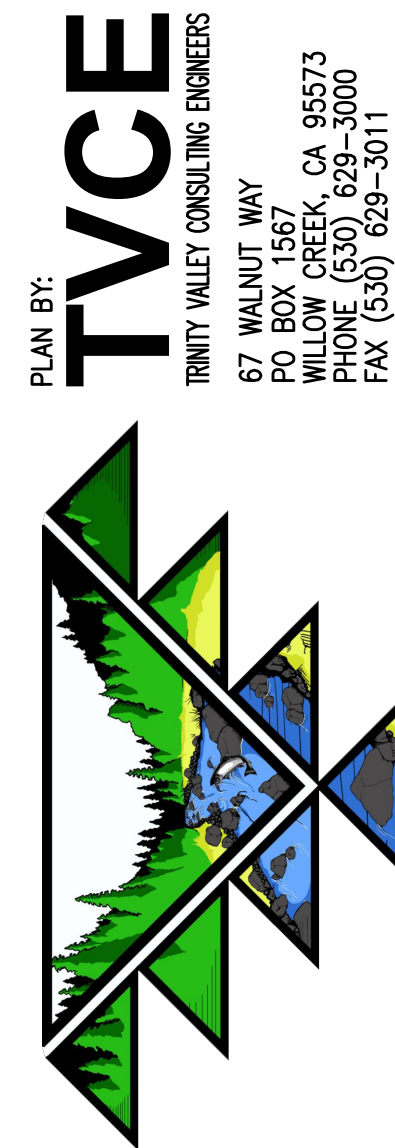
-
- The drawing consists of two parts: a Plan view (top) and a Section view (bottom).
- Plan View:** Shows the sewer line layout on the ground. A vertical line represents the "TRENCH" and "OF MAIN SEWER". To the left, a horizontal line is labeled "R/W OR PROPERTY LINE". A "6\"x4\" WYE" connects the horizontal line to the vertical line. A "PLUG & SEAL" is shown on the horizontal line. A "UTILITY EASEMENT VARIES" is indicated. A "2\"x2\" TREATED WOOD MARKER STAKE, TYP. (AT PLUGGED LATERAL)" is shown. A "6\"x6\" PVC TEE-WYE" is shown. A "6\" PVC BEND AS REQUIRED" is shown. A "4\" MIN. INDIVIDUAL HOUSE CONNECTION BY OTHERS" is shown. A "PROPERTY LINE" is shown. A "6\"x4\"x4\" STD. PVC DOUBLE \"Y\" BRANCH" is shown. A "4\" MIN. INDIVIDUAL HOUSE CONNECTION BY OTHERS" is shown. A "UTILITY EASEMENT VARIES" is indicated. A "3'-0\" is shown.
- Section View:** Shows the sewer line in cross-section. A "6\" PVC SERVICE LATERAL SLOPE 1/4\" PER FOOT TYP. 1/8\" PER FOOT MIN." is shown. A "6\"x4\" WYE" is shown. A "6\"x4\"x4\" STD. PVC DOUBLE \"Y\" BRANCH" is shown. A "60\" MAX" is shown. A "6\" PVC SERVICE LATERAL" is shown. An "ELECTRONIC MARKER, TYP." is shown. A "3'-0\" is shown. A "SLOPE 1/4\" PER FOOT TYP. 1/8\" PER FOOT MIN." is shown. A "UNDISTURBED EARTH" is shown.

SINGLE SERVICE CONNECTION DOUBLE SERVICE CONNECTION

1. SERVICE LATERALS SHALL TERMINATE 2' INSIDE U.E. AT PROPERTY LINE AT A DEPTH OF 3 FEET, PLUGGED WATERTIGHT AND MARKED WITH A 2"x2" TREATED STAKE AND ELECTRONIC MARKER.
2. THE MINIMUM DIAMETER OF ALL SERVICE LATERALS SHALL BE 6 INCHES.
3. CONNECTION TO CITY LATERAL SHALL BE MADE WITH A CLEANOUT.

SANITARY SEWER SERVICE

REVISIONS



SKYLINE DEVELOPMENT

SEWER DETAILS

DESIGN BY: TVCE

DRAWN BY: SG

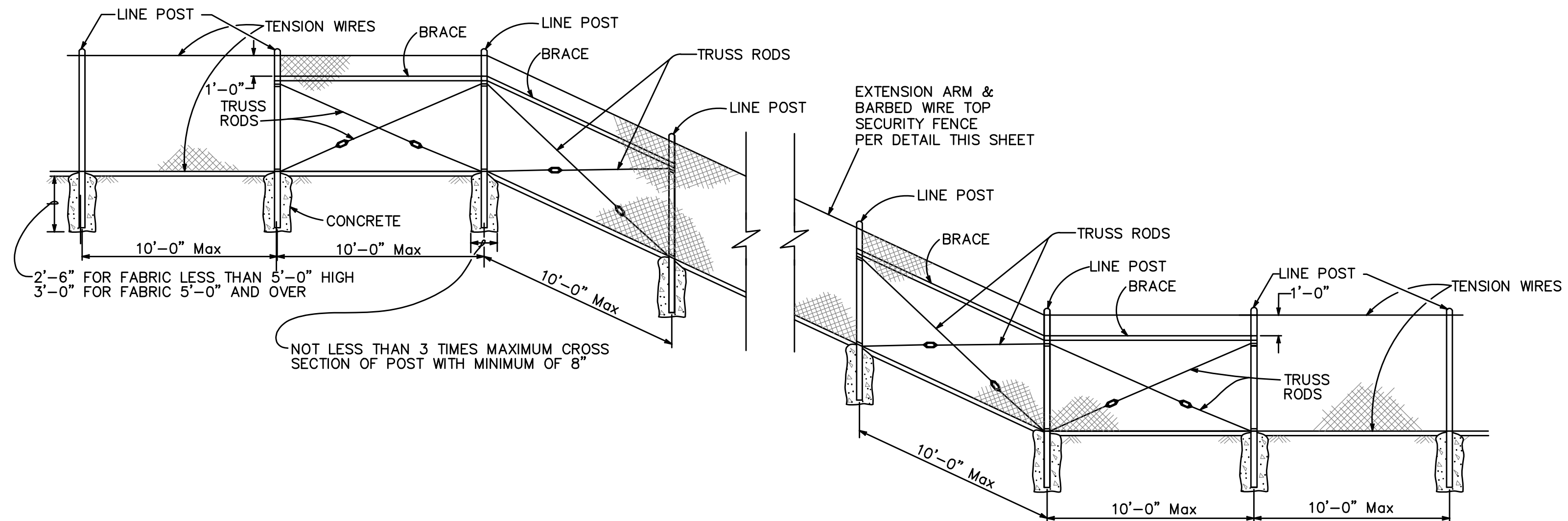
CHECKED BY: FM

DATE: SEPTEMBER 22, 2023

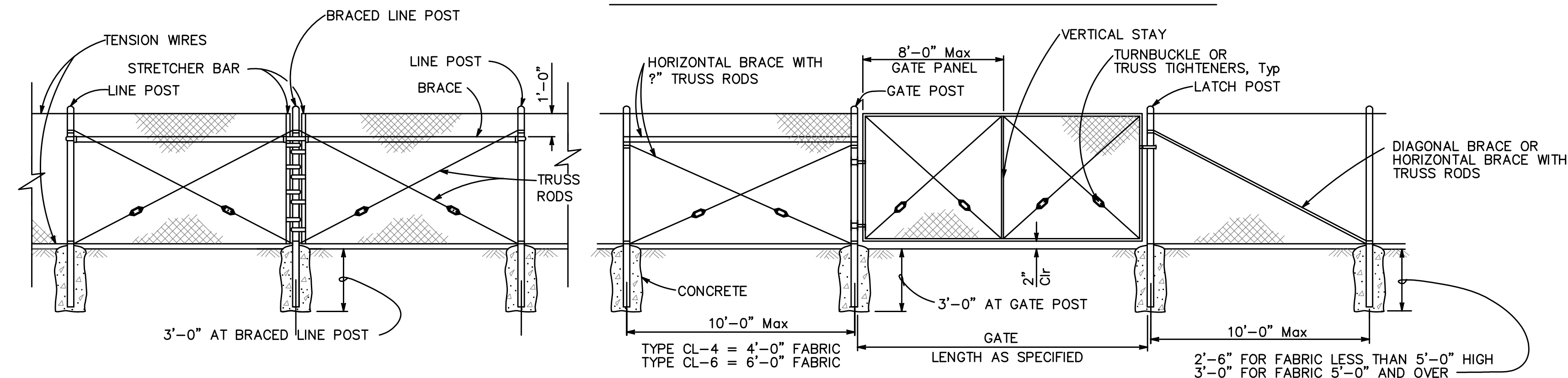
SCALE: AS SHOWN

PROJECT NO: 236.10

C17



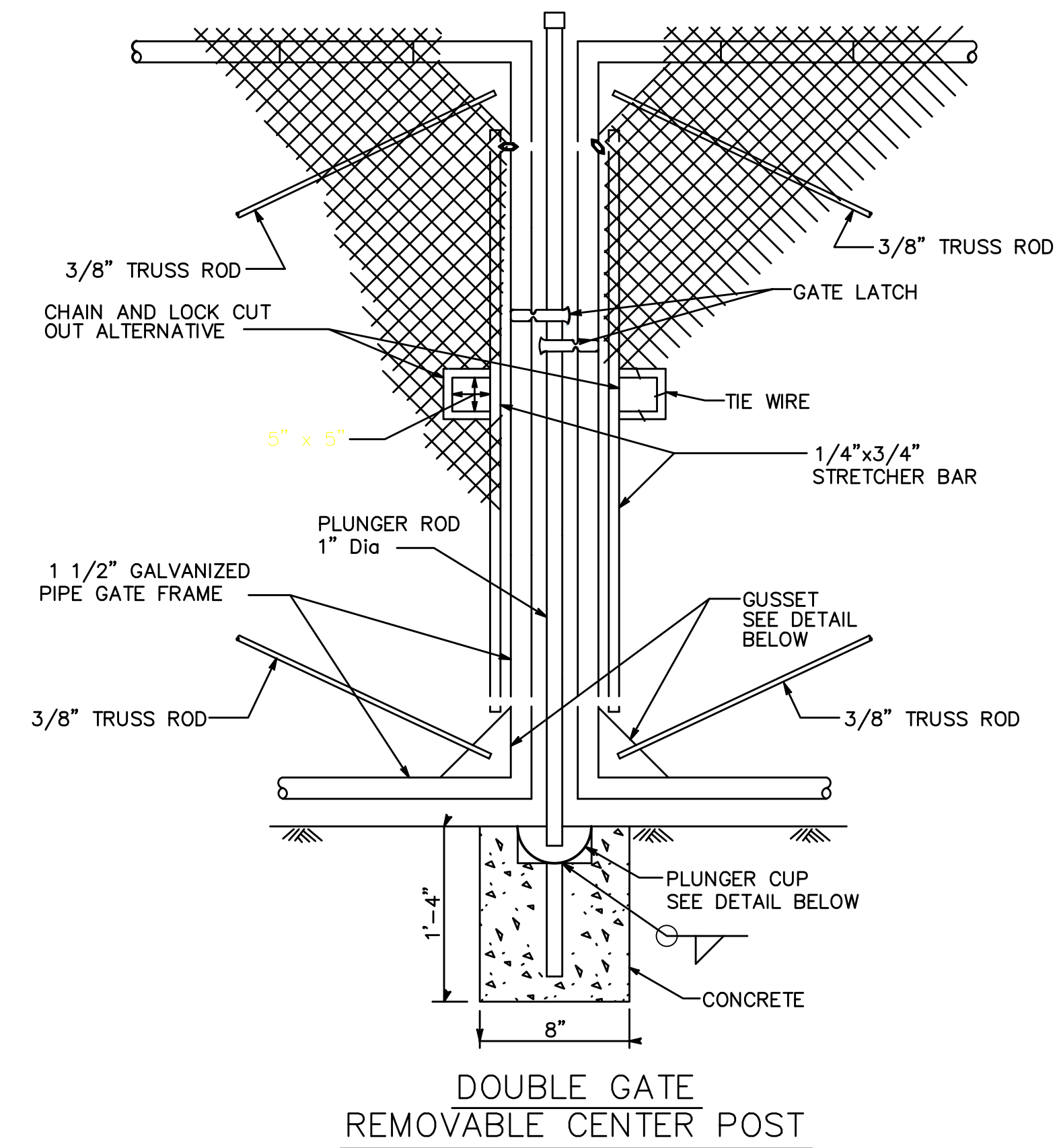
CHAIN LINK FENCE ON SHARP BREAK IN GRADE



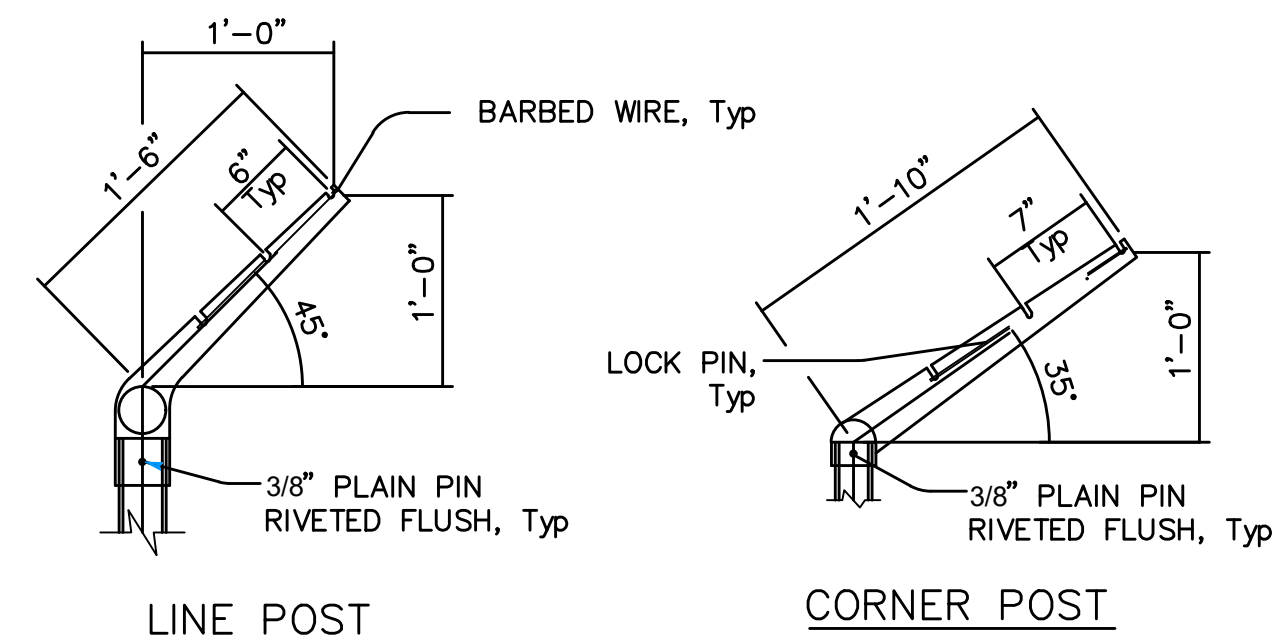
CHAIN LINK GATE INSTALLATION

- NOTES:**
1. The below table shows examples of post and brace sections which may comply with the Specifications.
 2. Sections shown in the tables must also comply with the strength requirements and other provisions of the Specifications.
 3. Other sections which comply with the strength requirements and other provisions of the Specifications may be used on approval of the Engineer.
 4. Options exercised shall be uniform on any one project.
 5. Dimensions shown are nominal.
 6. Offset to be 2'-0" at monument locations, measured at right angles to R/W lines. Taper to achieve offset to be at least 20'-0" long.
 7. See Standard Plan A85B for Brace, Stretcher Bar, and Truss Tightener Details.

TYPICAL MEMBER DIMENSIONS (See Notes)							
FENCE HEIGHT	LINE POSTS		END, LATCH AND CORNER POSTS		NPS (Std Wt)	BRACES	
	NPS (Std Wt)	ROLL FORMED	NPS (Std Wt)	ROLL FORMED		ROLL FORMED	
6' AND LESS	1 1/2"	17/8"x15/8"	2"	2" x 1 3/4"	1 1/4"	1 5/8" x 1 1/4"	1 5/8" x 1 1/4"
OVER 6'	2"	2 1/4" x 1 3/4"	2 1/2"	2 1/2" x 2 1/2"	1 1/4"	1 5/8" x 1 1/4"	1 5/8" x 1 1/4"



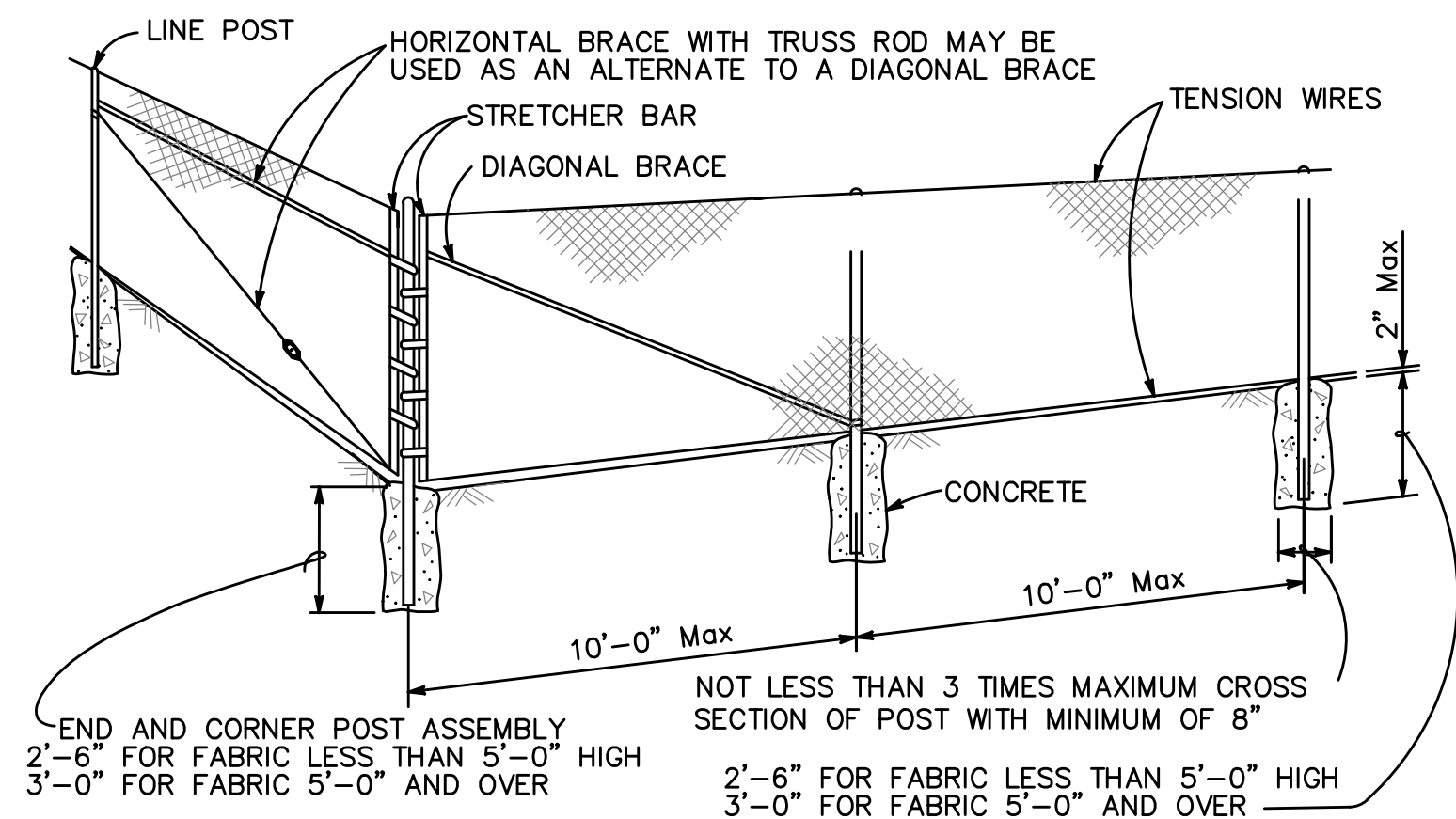
DOUBLE GATE
REMOVABLE CENTER POST



BARBED WIRE POST TOP

BRACED LINE POST INSTALLATION

Braced line post at intervals not exceeding 1000'

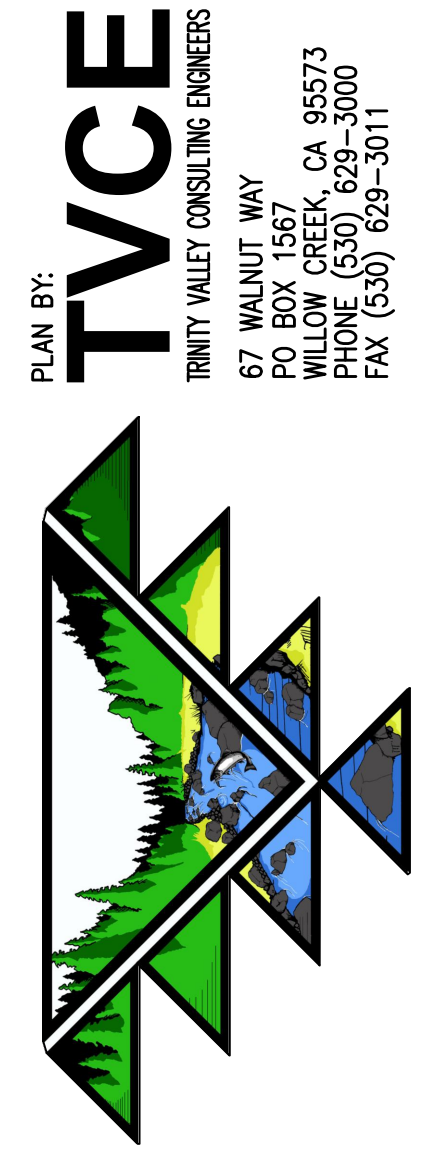


CORNER POST

GATE POST			
FENCE HEIGHT	GATE WIDTHS	NPS (Std Wt)	WEIGHT PER FOOT
6'-0" AND LESS	UP THRU 6'-0"	2 1/2"	5.79 LB
	OVER 6'-0" THRU 12'-0"	4"	10.79 LB
	OVER 12'-0" THRU 18'-0"	5"	14.62 LB
	OVER 18'-0" TO 24'-0" Max	6"	18.97 LB
OVER 6'-0"	UP THRU 6'-0"	3"	7.58 LB
	OVER 6'-0" THRU 12'-0"	5"	14.62 LB
	OVER 12'-0" THRU 18'-0"	6"	18.97 LB
	OVER 18'-0" TO 24'-0" Max	8"	28.55 LB

Above post dimensions and weights are minimums. Larger sizes may be used on approval of the Engineer.

REVISIONS



SKYLINE DEVELOPMENT

FENCE DETAILS
CALTRANS STD A85 & A85A

DESIGN BY: TVCE

DRAWN BY: SG

CHECKED BY: FM

DATE: SEPTEMBER 22, 2023

SCALE: AS SHOWN

PROJECT NO: 236.10

C18