

COUNTY OF SAN JOAQUIN

DEPARTMENT OF PUBLIC WORKS

P.0. BOX 1810-1810 E. HAZELTON AVENUE STOCKTON, CALIFORNIA 95201 (209) 468-3000 FAX # (209) 468-9324 Permit No: PS-1800189
Date Issued: 01/23/2018
Start Date: 01/23/2018
Exp. Date: 03/01/2018
Project No: PWP7110005

Quad: NS

ENCROACHMENT PERMIT

To: ASTOUND 215 MASON CIR CONCORD, CA 94513

Encroachment Type:			
TCP			
Location:			-53(e-1.) III.

WEST LN@ALPINE AVE

In compliance with your request of 01/23/2018, permission is hereby granted to do work in County right-of-way as shown on attached application and subject to all the terms, conditions and restrictions written below or printed as general or special provisions on any part of this form. See reverse side and attached sheet, if any.

Trench excavations for service connections will not be permitted within ten feet (10') of pavement centerline unless otherwise approved by the Director. Surface of trench patches shall match in kind and be smooth and even with that of abutting surface. Special attention shall be given to depth of utilities through roadside area in anticipation of future drainage facilities, road profile and/or frontage development. All underground utility facilities are to be established and accurately dimensioned on sketches from surveyed centerline of road right of way, or from right of way (border) lines.

Permittee shall call the Department of Public Works, Field Engineering Division (Permit Inspections) at (209)953-7421 at least forty-eight hours prior to beginning any work within the County right of way. All work performed under this permit shall conform to the rules and regulations pertaining to safety established by the California Division of Industrial Safety and Cal-OSHA.

The jobsite shall be kept in a safe condition at all times by the daily removal of any excess dirt or debris which might be a hazard to either pedestrian or automobile traffic. All necessary traffic convenience and warning devices and personnel shall be provided, placed and maintained by and at the sole expense of the Permittee in accordance with the latest edition of the CALTRANS Manual of Traffic Control.

After completion of the work permitted herein, all debris, lumber, barricades, or any excess material shall be removed and the jobsite left in a neat workmanlike manner. Immediately following completion of construction permitted herein, Permittee shall fill out and mail notice of completion (see attached post card) provided by Grantor.

Special Comments:	
Traffic Control Per MUTCD	
FORMS: SS/WW, R-29	
Est. Permit Fee: \$436.00	KRIS BALAJI, Director

KRIS BALAJI, Director
Department of Public Works

WHITE -Permittee
GOLDENROD -PWD Central File
YELLOW -Field Inspection
PINK -Permit Section

Permit Section

ENCROACHMENT PERMIT GENERAL PROVISIONS

13-1

This permit is issued under and subject to all laws and ordinances of agencies-governing the encroachment herein permitted. See the
following references:

STREETS AND HIGHWAYS CODE

- 1. Division 1, Chapter 3
- 2. Division 2, Chapter 2, Section 942
- 3. Division 2, Chapter 4, Section 1126
- 4. Division 2, Chapter 5.5 and Chapter 6

SAN JOAQUIN COUNTY ORDINANCES NUMBERED: 324, 441, 648, 662, 672, 695, 700, 860, 892, 3359, and 3675.

- 2. It is understood and agreed by the Permittee that the performance of any work under this permit shall constitute an acceptance of all the provisions contained herein and failure on the Permittee's part to comply with any provision will be cause for revocation of this permit. Except as otherwise provided for public agencies and franchise holders, this permit is revocable on five days notice.
- 3. All work shall be done subject to the supervision of and the satisfaction of the grantor. The Permittee shall at all times during the progress of the work keep the County Highway in as neat and clean condition as is possible and upon completion of the work authorized herein, shall leave the County Highway in a thoroughly neat, clean and usable condition.
- 4. The Permittee also agrees by the acceptance of this permit to properly maintain any encroachment structure-placed by the Permittee on any part of the County Highway and to immediately repair any damage to any portion of the highway, which occurs as a result of the maintenance of the said encroachment structure, until such time as the Permittee may be relieved of the responsibility for such maintenance by the County of San Joaquin.
- 5. The Permittee also agrees by the acceptance of this permit to make, at its own expense, such repairs as may be deemed necessary by the County Department of Public Works.
- 6. It is further agreed by the Permittee that whenever construction, reconstruction or maintenance work upon the highway is necessary, the installation provided for herein shall, upon request of the County Department of Public Works, be immediately moved or removed by and at the sole expense of the Permittee.
- 7. No material used for fill or backfill in the construction of the encroachment shall be borrowed or taken from within the County right of way.
- 8. All work shall be planned and carried out with as little inconvenience as possible to the traveling public. No material shall be stacked within eight feet (8') of the edge of the pavement or traveled way unless otherwise provided herein. Adequate provision shall be made for the protection of the traveling public. Traffic control standards shall be utilized including barricades; approved signs and lights; and flagmen, as required by the particular work in progress.
- 9. The Permittee, by the acceptance of this permit, shall assume full responsibility for all liability for personal injury or damage to property which may arise out of the work herein permitted or which may arise out of the part of the Permittee to properly perform the work provided under this permit. In the event any claim of such liability is made against the County of San Joaquin or any department, official or employee thereof, the Permittee shall defend, indemnify, and hold each of them harmless for such claim.
- 10. All backfill material is to be moistened as necessary and thoroughly compacted with mechanical means. If required by the County Director of Public Works, such backfill shall consist of gravel or crushed rock. The Permittee shall maintain the surface over structures placed hereunder as may be necessary to insure the return of the roadway to a completely stable condition and until relieved of such responsibility by the County Department of Public Works. Wherever a gravel, crushed rock or asphalt surface is removed or damaged in the course of work related to the permitted encroachment, such material shall either be separately stored and replaced in the roadway as nearly as possible in its original state or shall be replaced in kind, and the roadway shall be left in at least as good a condition as it was before the commencement of operations of placing the encroachment structure.
- 11. Whenever it becomes necessary to secure permission from abutting property owners for the proposed work, such authority must be secured by the Permittee prior to starting work.
- 12. The current and future safety and convenience of the traveling public shall be given every consideration in the location and methods of construction utilized.
- 13. The Permittee is responsible for the preservation of survey monuments located within the area of work herein permitted. Prior to the start of construction, survey monuments that potentially may be disturbed shall be located and referenced by a Licensed Land Surveyor, and a Corner Record filed with the County Surveyor. Any Survey Monuments disturbed during the course of construction shall be reestablished by a Licensed Land Surveyor and another Corner Record filed with the County Surveyor. (Land Surveyors' Act Section 8771)
- 14. Prior to any excavation, the Permittee shall notify USA North (Underground Service Alert of Northern California and Nevada) at 811 or 800-227-2600 forty-eight (48) hours in advance.

APPLICATION FOR ENCROACHMENT PERMIT

PLEASE PRINT:	The state of the s		3 T	
Date 12/29/17		OFFICE U	USE ONLY	
Го: San Joaquin County	JOB#	110005	REF#	
Department of Public Works COMPLISTIAN SILVA)	10/10/2 95/25	2//	CR#	
ASTOURD BROADBAND LLC, PBA WAVE			3-1-18	DRIVEWAYS
(Applicant Name)	Department of Public Works CLHIZISTIAN SILVA) APN EXP. DATE 3-1-18 VALID 1-23-18 TO 3 (Applicant Name) STREET AREA TYPE (Mailing Address) (City, State, Zip Code) 445 - 516 - 3902 (Area Code - Telephone Number) CSILVA E WAYEBRAND BAND COM (Email Address) etailed plans may be submitted)		*	
215 MASON CINCLE.		Stoction QUAD	1/5	*
(Mailing Address)	A VANDOR WARELINE			* ************************************
CONCORD CA 945/3	NOTES			4
(City, State, Zip Code)	,		40000	
415-516-3902	1105	The core was a second	- warmana	
(Area Code - Telephone Number) CSILVA @WAVEBROADBAND.COM		T.		
(Email Address)		m V		- i *
SEE SUBMITTED PLANS FOR DETAILS.				
SEE SUBMITTED PLANS FOR DETAILS.				
TRENCHING 95 ALONG WEST LN FRANCHING OF SINCE SWEET LN FRANCHING OF THE SINCHINE WEST LN FRANCHINE OF THE SIN COUNTY ONLY!	m tasm	proximately _, by performing the fo	fee ollowing work (des	t/mile
e undersigned hereby applies for permission to excavate, of the side of the support of the superior of the sup	m tasm	proximately, by performing the fo	fee pllowing work (des	t/mile scription of work)
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GOYERNING INSTALLATION OF SUBSURFACE STRUCTURES AND PIPELINES WITHIN COUNTY ROAD RIGHTS-OR-WAY

PUBLIC CONVENIENCE AND SAFETY:

A. Before obstructing any private driveway entrance or County road traveled way with a trench, spoil bank, equipment or other barrier permitted for any prolonged period of time, the Permitteeshall notify the known users of the respective thosoughtare(s) involved, and shall provide access for vehicular and pedestrian traffic to and from the road.

1. Unless ofherwise permitted, all work shall be conducted in such a manner that no less than one lane of the existing County road traveled way will be maintained open to public traffic during working hours in a smooth and safe riding condition(s). Two lanes shall be open after working hours.

2. In cases where road closure is permitted, the permission to close the road will be granted under the condition that the Permittee notify the following persons and/or agencies of the time, the period of closure, and the detour route at least twenty-four (24) hours prior to said road closure.

a. The County of San Joaquin Public Works Department .d.

The local fire district

The County of San Joaquin Sheriff's Office
 The local postal service

The local school district
The local residents sayolyed

B. Should hazardons conditions relative to the installation operations warrant flagmen, as many capable flagmen as may be necessary shall be provided by the Permittee and stationed in advance of work to warn and direct traffic.

Lights, signs and barricades shall be furnished, exected and maintained by the Permittee for the adequate warring and convenience of the public, with particular attention to be taken in this regard after dark.

D. Any excess dirt and/or debris which might be a hazard to either automobile of pedestrian traffic, uncomfollable by lights, signs and barricades, shall be removed from the jobsite daily.

STRUCTURES:

A. Walls of structures shalf be such quality and strength that they will resist all pressures and will not crack or be deformed in such a way as to create a hazard or maintenance problem at any time. Therefore, the inhimum structural requirements for connecte pipe placed under country road rights-of-way shalf conform to the following American Association of State Highway and transportation Officials (AASHTO) designations.

 For concrete pipe up to and including thirty-three inches (33") inside diameter, extra strength concrete conforming to AASHTO Designation M 170M.

 For concrete pipe thirty-six inches (36°) inside diameter and larger, reinforced concrete pipe conforming to AASETTO Designation M 170M Class III.

Plastic pipe conforming to AASHTO Designation M294.

B. All concrete pipe joints with County road rights-of-way shall be sealed against leakage and/or infiltration with rubber gasket in conformance with Section 65-1:06 of the California Standard Specifications, or with other methods as may be permitted under the Special Provisions.

Cast-in-place concrete pipe, vitrified day pipe, spiral welded steel pipe, or confugated aluminum alloy pipe shall not be installed within the County road rights-of-way unless specifically so stated in the Special Provisions, and only under the conditions as provided.

D. All structures to be buried within the County rights-of-way shall be set at such elevations as to allow minimum coverage of thirty inches (30°) to the centerline of the roadways and twelve inches (12°) at the bottoms of borrow ditches each side of the roadways. The depths of structures shall be established below a flat plane extending across the rights-of-way, no part of which shall extend above the elevations stated above; manholes, lampholes, valves, etc. not included. Future surface elevations shall be anticipated as nearly as possible and structure elevations shall be established for future adjustments accordingly.

E. The County hereby reserves the right to specify in the Special Provisions the gage and surface treatment of any galvanized corrugated metal pipe that is to be installed.

F. All longitudinal utility facilities are to be established (and dimensioned on sketches) from surveyed centerline of road right-of-way, not from right-of-way (border) lines.

REPAIRS OF THE COUNTY RIGHT-OF-WAY:

A All excavations shall be backfilled and compacted immediately after work therein has been completed.

B. Trenched shall not be left open farther than 300 feet in advance of pipe laying operations, or 200 feet to the rear thereof, unless otherwise permitted by the Engineer.

C. Unless otherwise permitted under the Special Provisions, backfill shall be placed and mechanically compacted in such a manner that the relative compaction throughout the entire till within the County road right-of-way shall conform to the percentages of compaction as shown on the Trench detail.

D. Backfill material shall be placed in horizontal uniform layers not to exceed in thickness, before compaction, 0.67 foot in the bedding region, one—foot where 90% compaction is required, and two-feet where 80% compaction is required.

B. No portion of the excavation(s) shall be compacted by ponding or jetting unless a maintenance bond is provided.

- F. Gravel backfill material shall be utilized only where specifically so stated on the face of the pennit. It shall be compacted by means of a high-frequency internal vibrator, the compactor to be a size and type approved by the Engineer. Points of compaction shall not be greater than 18" centers and to the field depth of the lift.
- G. All pavements, cmbs, gutiers, sidewalks, borrow ditches, pipes, head walls, road signs, trees, shrubbery, and/or other permanent road facilities impaired by or as a result of construction operations at the construction site(s) occupied by materials and/or equipment, shall be restored immediately upon backfilling of the excavation to the original grades and cross sections, and to a condition as good as, or better than existing prior to construction.

H. All stufacing materials of roadways and driveway approaches cut or damaged by or as a result of construction operations, shall be replaced within ONE WEEK following the backfilling of excavation, weather permitting, with compacted layers of surfacing materials at least as thick as the existing, and no less than two inches (2") of asphalt concrete over six inches (6") of aggregate base, both as specified below.

Asphalt Concrete: Combined mineral aggregate shall conform to the quality and gradation requirements for Type "B" one-balf inch(1/2) maximum aggregate, coarse or medium gradation as specified in Section 39 of the California Standard Specifications. The bituminous binder to be mixed with mineral aggregate shall be paying asphalt having (Grade PG 64-10), unless otherwise directed by the Engineer. Placement of asphalt concrete surfacing shall conform to the applicable provisions of Section 39 of the California Standard Specifications.

2. Aggregate Base: Combined mineral aggregates shall conform to the quality and the grading for three-quarter inch (3/4") maximum size aggregate Class 2 Aggregate Base specified in Section 26 of the California Standard Specifications.

I Before acceptance of repairs to the County road rights-of-way, all unsightly and detrimental dirt, dust and/or debris shall be removed and the construction areas left in a neat and presentable condition(s).

1. If necessary, County road traveled way and driveway payements shall be washed with water to remove dut and dust

2. Driveway approaches and field entrance pavements damaged by equipment or spoil banks shall be repaired as directed by the Engineer.

J. Upon request by the County, any settlement, sagging of surface, or cracking of pavement shall be repaired immediately by and at the sole expense of the Permittee for a period of one year following acceptance of the work.

SPECIAL PROVISIONS

Winter Weather Utility Work

- 1. <u>SUPERVISION:</u> The utility company (permittee) shall furnish full-time supervision of all work to insure compliance with the permit provision.
- START OF WORK: No work within the County right-of-way shall be started until the utility company representative has made an evaluation of weather conditions and has determined the work can be accomplished under the provisions of the permit.
- 3. CLEAN PAVEMENT: Dirt and mud shall not be deposited on the pavement outside the area of work, and if inadvertently tracked onto the road travel way shall be removed immediately.
- 4. DAILY RESTORATION: Private driveways and road intersections shall be restored daily.
- 5. WEATHER-TIGHT CONDITIONS: All trenches shall be filled and compacted, ditches and other drainage facilities regarded and opened, and the entire work area restored to weather-light condition prior to any rain.

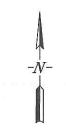
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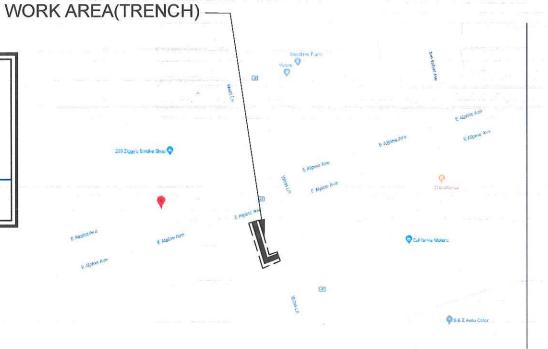
WAVE PROJECT
TRAFFIC CONTROL PLAN FOR
OPEN TRENCH ON
1528 E ALPINE AVE &
WEST LN,
STOCKTON, CALIFORNIA, 95204.

WAVE TO PLACE CONDUIT VIA OPEN TRENCH ON WEST LN & E ALPINE AVE, STOCKTON, CALIFORNIA, 95204.

PROJECT SCOPE

DEC 28, 2017 VERSION-1





VICINITY MAP

1	TITLE SHEET, INDEX
2-	LEGEND AND GENERAL NOTES
3	LAYOUT PLAN
4	TRAFFIC CONTROL PLAN
5	TRAFFIC CONTROL NOTES
6	TRENCH PAVING DETAILS
7-8	CONSTRUCTION DETAILS
9	STORM WATER PROTECTION DETAIL
	DRAWING INDEX

CALL BEFORE YOU DIG UNDERGROUND SERVICE ALERT



PlannEN

e-⊠ splanneng@gmaïl.co ∜n www.planneng.co

Rev.	Description	Date
0	ISSUE TO CONSTRUCTION	12/28/2017
-		

astound, by wave

AGENCY / CITY

TITLE SHEET, INDEX TRENCH 1528 E ALPINE AVE, STOCKTON, CA.

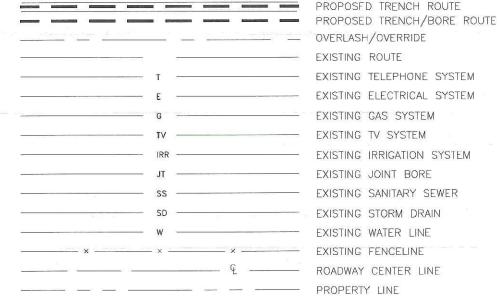
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Drawn By :	Date :
PlannEng	12/28/17
Checked By:	Job No. :
PlannEng	100015654

SYMBOLS

		\triangle	POTHOLE LOCATION
\mathscr{D}	NEW POWER SUPPLY	*	CIDELL HOUT
	NEW LOW PROFILE	$\mathcal{A}^{-\circ}$	STREET LIGHT
	POWER SUPPLY W/ METER	Φ	TRAFFIC SIGNAL COMBINATION
	NEW VAULT	0	FIRE HYDRANT
	NEW PEDESTAL		MONUMENT
	BORE PIT	ПП	CATCH BASIN
⊗ •	NEW VLT	(SD)	STORM DRAIN MANHOLE
\otimes	EXISTING POLE		STORM DIVARN MANTICEL
	EXISTING VAULT	W	WATER MANHOLE
		(55)	SANITARY SEWER MANHOLE
\bowtie	EXISTING PEDESTAL	©	SEWER CLEAN OUT
Ö	EXISTING IRRIGATION VAULT	000000	ELECTRIC MANILOLE
	EXISTING UTILITY VAULT/PEDESTAL	E	ELECTRIC MANHOLE
N 1	CAS AWATED VALVE	©	UNIDENTIFIED MANHOLE
	GAS/WATER VALVE	\boxtimes	WATER METER
\Leftrightarrow	TREE/BUSHES	©	GAS MFTFR
	A DDDEXT A TI		ONS MILLION
	ABBREVIATION	DIAD.	

€ (E) FOC MIN	CENTER LINE EXISTING FACE OF CURB MINIMUM	PL PUE R/W SD SS	PROPERTY LINE PUBLIC UTILITY EASEMENT RIGHT OF WAY EXISTING STORM DRAIN EXISTING SANITARY SEWER
MAX	MAXIMUM	T	EXISTING TELEPHONE
CDT	CONDUIT	W	EXISTING WATER

LINETYPES



GENERAL NOTES

- 1. ALL GENERAL NOTES SHALL APPLY TO ALL DRAWINGS, PLANS AND DETAILS.
- 2. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA), AT LEAST 48 HOURS (AND NOT MORE THAN 14 DAYS) PRIOR TO THE START OF CONSTRUCTION BY CALLING (800) 227-2600.
- 3. CONTRACTOR SHALL POTHOLE/HAND DIG AND VERIFY ALL UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION. ALL UTILITY LOCATIONS ON PLANS ARE APPROXIMATE, CONTRACTOR MUST VERIFY.
- 4. CONTRACTOR SHALL VERIFY ALL FOOTAGES ON SITE, PRIOR TO THE START OF CONSTRUCTION. ALL DIMENSIONS SHOWN ON PLANS ARE APPROXIMATE.
- 5. CONTRACTOR SHALL KEEP A COPY OF APPROVED PLAN(S) AND PERMIT(S) AT THE JOB SITE AT ALL TIMES AND PRESENT IT TO AN AUTHORIZED AGENT OF THE CITY OF STOCKTON AND/OR LAW ENFORCEMENT UPON REQUEST.
- 6. CONTRACTOR SHALL ENSURE THAT ANY EXISTING FACILITIES DAMAGED OR REMOVED SHALL BE REPLACED IN KIND OR BETTER, INCLUDING BUT NOT LIMITED TO REPLACING EXISTING STRIPING AND REMOVING UNNECESSARY "USA" MARKINGS.
- 7. CONTRACTOR SHALL WORK ONLY DURING APPROVED HOURS, UNLESS OTHERWISE APPROVED IN WRITING BY THE "CITY ENGINEER."
- CONTRACTOR SHALL PERFORM ALL WORK AND TRAFFIC CONTROL IN ACCORDANCE WITH THE CITY OF STOCKTON AND STATE OF CALIFORNIA STANDARD PLANS AND SPECIFICATIONS, AND CURRENT CALIFORNIA DEPARTMENT OF TRANSPORTATION "MANUAL OF TRAFFIC CONTROLS AND MAINTENANCE OF HAZARD ZONE" AND "MANUAL OF WARNING SIGNS, LIGHTS AND DEVICES" FOR USE IN PERFORMANCE OF WORK UPON HIGHWAYS. FLASHING ARROW SIGNS SHALL BE REQUIRED FOR ALL LANE CLOSURES.
- 9. CONTRACTOR SHALL ENSURE ALL WORK PERFORMED IS IN ACCORDANCE WITH REGULATIONS AND STANDARDS SET BY ANY AND ALL REGULATORY AGENCIES HAVING JURISDICTION AT THIS WORK SITE, INCLUDING BUT NOT LIMITED TO THE STATE OF CALIFORNIA PUBLIC UTILITY COMMISSION (CPUC), THE STATE OF CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT (CAL OSHA), THE COUNTY OF SAN JOAQUIN, ALL WORK SHALL BE ACCESSIBLE AND SUBJECT TO INSPECTION BY CITY ENGINEER AND/OR AN AUTHORIZED AGENT OF WAVE
- 10. CONTRACTOR SHALL "RED-LINE" ALL LAYOUTS, PLANS AND DETAILS, ON THE DAY OF CONSTRUCTION AND SUBMIT A COMPLETE SET OF "AS-BUILT" PLANS TO WAVE UPON COMPLETION OF THE PROJECT, AND TO CITY.
- 11. CONTRACTOR SHALL NOTIFY RESIDENTS AFFECTED BY THE WORK IN LANDSCAPED AREA IN ADVANCE OF CONSTRUCTION.
- 12. CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS INSPECTOR 48 HOURS IN ADVANCE OF WORK COMMENCING.
- 13. LANE CLOSURES ARE PROHIBITED BEFORE 8:30 AM AND AFTER 4:00 PM (3:00 PM OF FRIDAYS AND ON DAYS PRECEDING DESIGNATED LEGAL HOLIDAYS). NO LANE CLOSURES ARE PERMITTED ON WEEKENDS AND HOLIDAYS.

PROPOSED

THIS PROJECT PROPOSE TO OPEN TRENCH THROUGH EXISTING MANHOLE TO EXISTING WAVE VAULT.
INSTALLATION OF (3) 11/4" HDPE CONDUIT. TRAFFIC CONTROL.

FROM EXISTING MANHOLE NO: 1119 ON WEST LN TRENCH APPROX 95' TO EXISTING WAVE VAULT ON WEST LN.

CONTACT LIST

PLANNENG ENGINEERING INC
SUMAIR SYED ARIF
4746 CLAYTON RD,
CONCORD, CA, 94521
(925) 408-2159
splanneng@gmail.com
www.planneng.com

WAVE
Christian Silva
FDC Fiber Permit Technician III
215 Mason Circle
Concord, CA 94520
wavebroadband.com
925-459-1028 Ext 21028 (Office)
415-516-3902 (Cell)
csilva@wavebroadband.com

CITY OF STOCKTON
22 E, WEBER AVENUE, ROOM 301
STOCKTON, CA 95202
PHONE: (209) 937-8411
FAX: (209) 937-8277
FAX: (209) 937-7115

CALL BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600

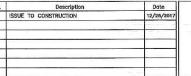




4746 Clayton Rd., Concord, CA., 94521 e-⊠ splanneng® (925) 408–2159 ⊕ www.plar

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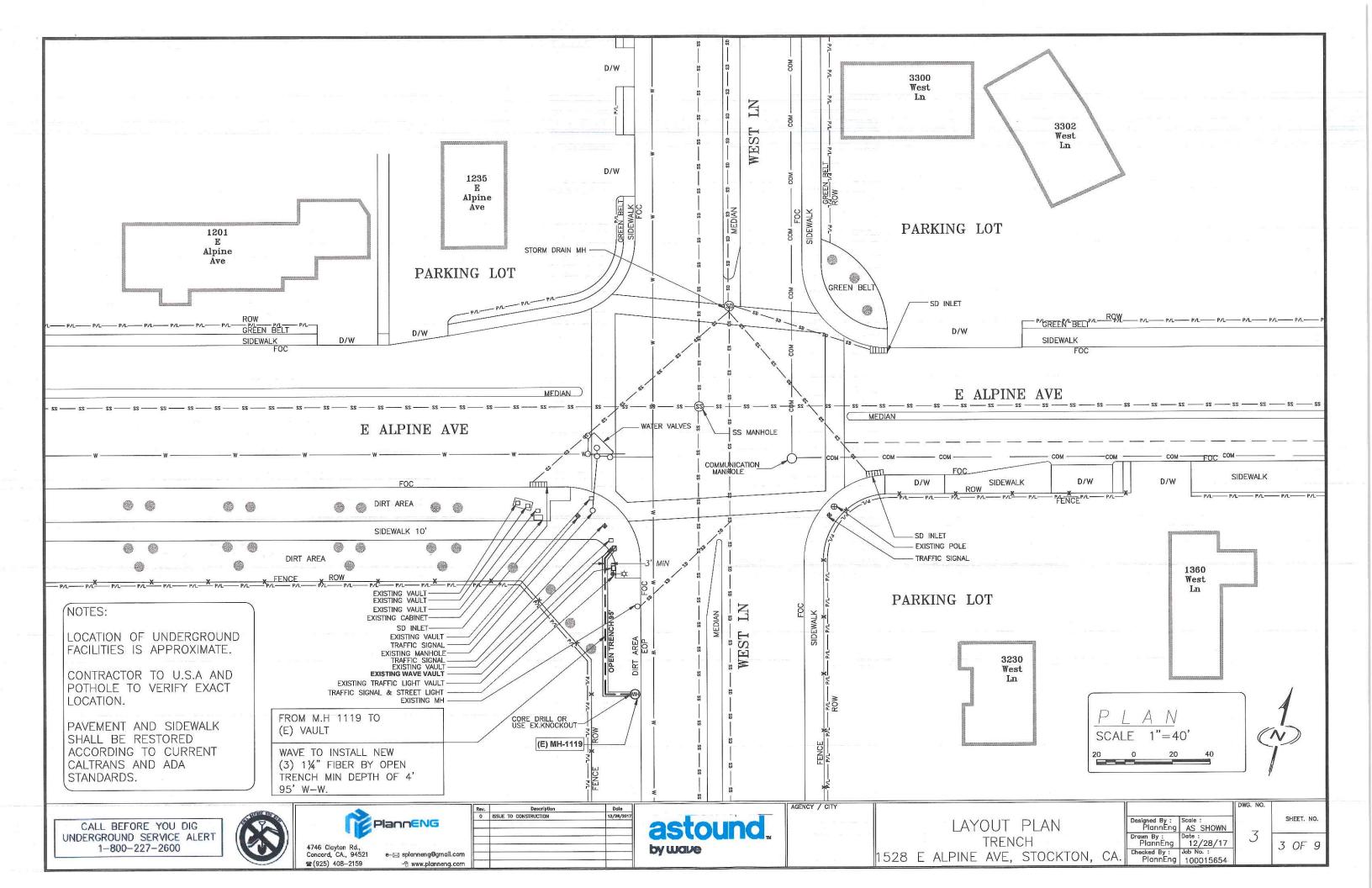
AGENCY / CITY

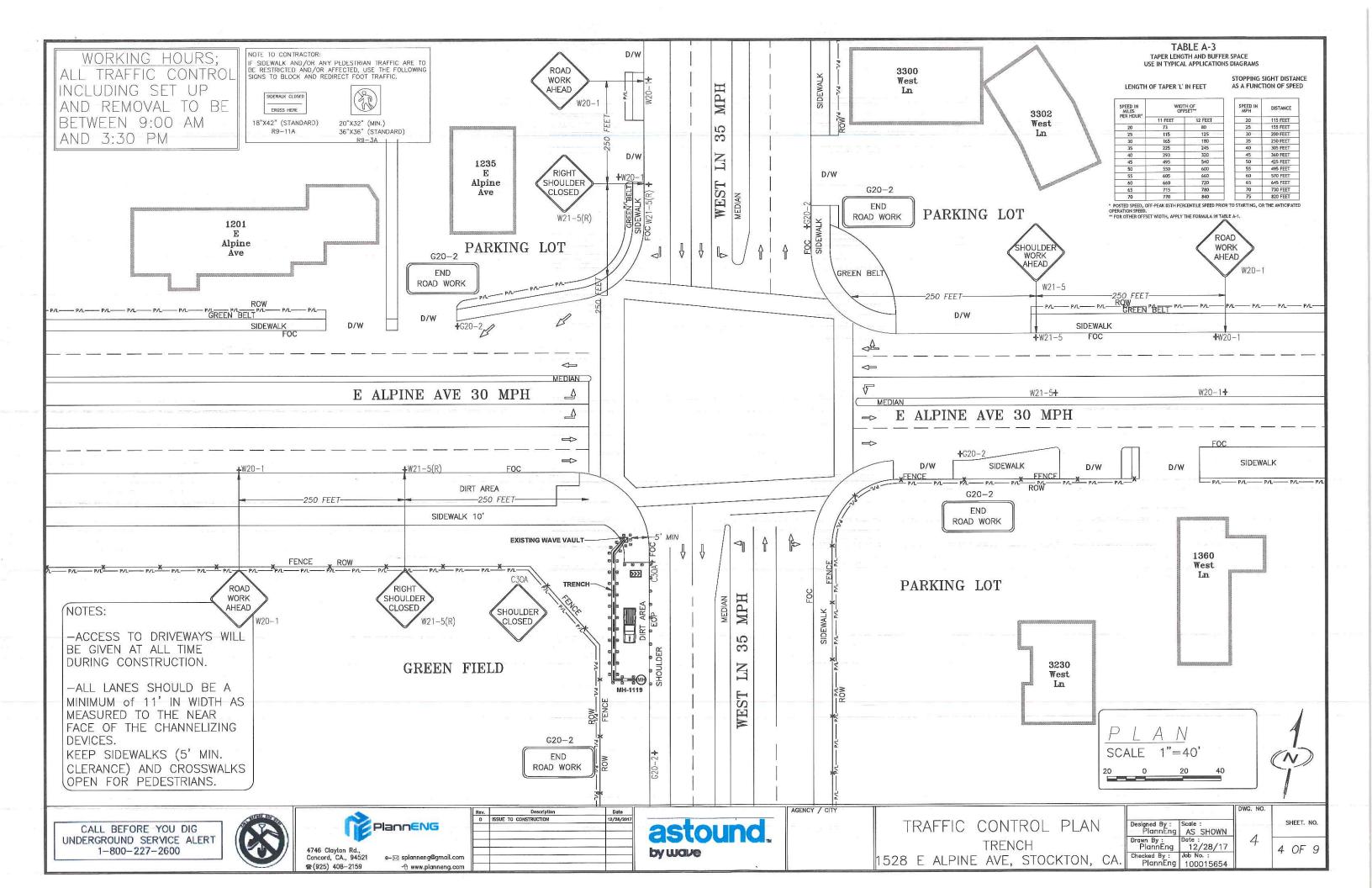
LEGEND AND GENERAL NOTES

TRENCH

1528 E ALPINE AVE, STOCKTON, CA.

2 SHEET. NO. 2 OF 9





LEGEND

- Traffic Cone or Delineator
- **■** Sign
- Direction of Travel (Not a pavement marking)
- Flashing Arrow Sign (Where Required)
 Refer to Page 7 of Caltrans manual
 Type A, Type I, or Type I.
- Y High Level Warning Device (Flagtree)
- Refer to Page 12 of Caltrans manual to select for Details on Type I, Type I, or Type I.
- Flagger

NOTES:

- 1. Flaggers will be used to control traffic at non-signalized intersections.

 Flaggers will use 2 way radios when a 24' (min) road way cannot be maintained.
- 2. No Parking/Tow Away signs will be posted 48 hours in advance to clear

Work Zone

3. All construction zone signs/directional signs will confrom to caltrons specs.

Signs will be spaced 150 feet apart where applicable.

4. Same traffic control plan will apply at other similar location and opposite

side of street

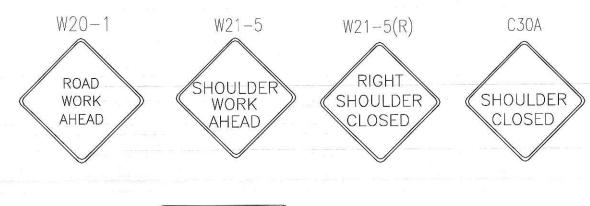
5. Use flag trees on all c-18/c-23 signs.

TABLE 6C-1 RECOMMENDED ADVANCE WARNING SIGN SPACING

	DIS	TANCE BETWEEN S	IGNS*
ROAD TYPE	А	В	С
URBAN (LOW SPEED) - 25 MPH OR LESS	100 FEET	100 FEET	100 FEET
URBAN (HIGH SPEED) - MORE THAN 25 MPH TO 40 MPH	250 FEET	250 FEET	250 FEET
URBAN (HIGH SPEED) - MORE THAN 40 MPH	350 FEET	350 FEET	350 FEET
RURAL	500 FEET	500 FEET	500 FEET
EXPRESSWAY / FREEWAY	1,000 FEET -	1,500 FEET	2,640 FEET

THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN. THE B DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS.

THE C DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS. (THE "FIRST SIGN" IS THE SIGN IN A THREE—SIGN SERIES THAT IS CLOSEST TO THE TTC ZONE. THE "THIRD SIGN" IS THE SIGN THAT IS FURTHEST UPSTREAM FROM THE TTC ZONE.)



END ROAD WORK

G20-2

CALL BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600





Rev.	Description	Date
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SMOOTHWALL



Customer Service 800-847-7661



- •Available from $\frac{1}{2}$ " to 16" diameters
- •Manufactured from flexible HDPE, makes gradual bends without special equipment
- ·Continuous lengths reduce joining casts
- •Excellent low temperature properties, allows installation in cold climates
- ·Outstanding long term cable protection from shifting ground, rock and root impingment
- ·Provides a permanent pathway, simpifies future cable repairs or replacment
- ·Available with UV protectant for aerial/lash
- •UL Listing Available from $\frac{1}{2}$ " -6" for SDR 13.5, SCH 40 and SCH 80

Existing Conduit, Plow, Direct Burial, Aerial





















FOOTAGE MARKINGS

Sequential foot or markings. Custom print streams available.

SILICORE™



SILICORE is co-extruded with the though HDPE jacket creating a super, slick permanent lining. SILICORE lined ducts allow for higher speed cable jetting and longer cable pulls.

PREINSTALLED TAPE

Factory pre-installe Bull-Line™ Pull Tape with EVEN-LOAD™, ensures extra slack at any access point throughout the real. Available 500lb-6,000lb tensile strength or locatable.

PREINSTALLED CABLE Specifiy single or multiple cables to be factory pre-installed. Cable types: Service Drops, Fiber, Coaxial, 600Volt Cu, Medium Voltage.



Customer Service • 800-847-7661

SMOOTHWALL SPECS

	PIPE SIZE	//"	1/4	1"	14	17.9	2"	2 //"	3"	4"	5"	6"		10"	12"
	Nom OD (in)	0.840	1.050	1.315	1.660	1.900	2.375	2.875	3.500	4.500	5.563	6.625	8.625	10.750	12.750
WALL	OD Tolerence +/-	0.004	0.005	0.007	0.008	0.010	0.012	0.014	0.018	0.023	0.028	0.033	0.043	0.054	0.064
TYPE	Bend Radius (in)-Supported	8	10	13	17	19	24	29	39	50	61	73	155	194	230
	Bend Radius (in)-Unsupported	16	20	26	34	38	48	58	78	100	122	146	233	290	344
	Min. Wall (in)	0.093	0.117	0.146	0.184	0.211	0.264	0.319	0.389	0.500	0.618	0.736	0.958	1.194	1.417
	Wall Tolerence +	0.020	0.020	0.020	0.022	0.025	0.032	0.038	0.047	0.060	0.074	880.0	0.115	0.143	0.170
SDR-9	Avg ID (in)	0.634	0.796	1.003	1.270	1.453	1,815	2.199	2.675	3.440	4.253	5.065	6.593	8.219	9.746
	Weight (#/ft)	0.098	0.152	0.234	0,370	0.485	0.759	1.110	1.648	2.723	4.161	5.901	10.001	15.534	
	Safe Working Load	525	821	1,288	2,052	2,688	4,200	6,155	9,122	15,080	23,045	23,045	55,397	86,057	121,056
	Min. Wall (in)	0.076	0.095	0.120	0.151	0.173	0.216	0.261	0.318	0.409	0.506	0.602	0.784	0.977	1.159
	Wall Tolerence +	0.020	0.020	0.020	0.020	0.021	0.026	0.031	0.038	0.049	0.061	0.072	0.094	0.117	0.139
SDR-11	Avg ID (in)	0.668	0.840	1.055	1.338	1.533	1.917	2.322	2.826	3,633	4.490	5.349	6.963	8.679	10.293
	Weight (#/ft)	0.084	0.128	0.199	0.312	0.408	0.636	0.930	1.380	2.282	3.490	4.944	8.383	13.019	
	Safe Working Load	440	687	1,078	1,717	2,249	3,515	5,151	7,633	12,618	19,284	27,349	46,355	72,010	101,297
	Min. Wall (in)	0.062	0.078	0.097	0.123	0.141	0.176	0.213	0.259	0.333	0.412	0.491	0.639	0.796	0.944
	Wall Tolerence +	0.020	0.020	0.020	0.020	0.020	0.021	0.026	0.031	0.040	0.049	0.059	0.077	0.096	0.113
SCD-13.5	Avg ID (in)	0.696	0.874	1.101	1.394	1.598	2.002	2.423	2.951	3.794	4.690	5.584	7.270	9.062	10.749
	Weight (#/ft)	0.072	0.110	0.167	0.263	0.342	0.528	0.775	1.146	1.895	2.896	4.112	6.969		15.214
	Safe Working Load	365	570	894	1,425	1,867	2,917	4,274	6,335	10,472	16,004	22,697	38,470	59,762	84,067
	Min. Wall (in)	0.062	0.068	0.084	0.107	0.123	0.153	0.185	0.226	0.290	0.359	0.427			
	Wall Tolerence +	0.018	0.020	0.020	0.020	0.020	0.020	0.022	0.027	0.035	0.043	0.051			
SDR-15.5	Avg ID (in)	0.698	0.894	1.127	1.426	1.634	2.049	2.483	3.021	3.885	4.802	5.720			Section 1
	Weight (#/ft)	0.071	0.098	0.149	0.234	0.304	0.467	0.680	1.011	1.669	2.552	3.615			
	Safe Working Load			792	1,234	1,607	2,466	3,592	5,342	8,814	13,483	19,123			
	Min. Wall (in)		0.062	0.077	0.098	0,112	0.140	0.169	0.206	0.265	0.327	0.390			
	Wall Tolerence +		0.020	0.020	0.020	0.020	0.020	0.020	0.025	0.032	0.039	0.047			
SDR-17	Avg ID (in)		0.906	1.141	1.444	1.656	2.075	2.517	3.063	3.938	4.870	5.798			-
	Weight (#/ft)		0.091	0.138	0.217	0.281	0.432	0.625	0.928	1.534	2.339	3.324			
	Safe Working Load	em umata ta de	460	722	1,150	1,507	2,355	3,450	5,114	8,453	12,918	18,321			

CALL BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600







Rev.	Description	Date	
0	ISSUE TO CONSTRUCTION	12/28/2017	
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			by wave

CONSTRUCTION DETAILS TRENCH 1528 E ALPINE AVE, STOCKTON, CA.

Designed By :	Scale :
PlannEng	AS SHOWN
Drawn By :	Date :
PlannEng	12/28/17
Checked By :	Job No. :
PlannEna	100015654

SHEET, NO.

LEGEND

- Traffic Cone or Delineator
- **■** Sign
- Direction of Travel
 (Not a pavement marking)
- Flashing Arrow Sign (Where Required)
 Refer to Page 7 of Caltrans manual
 Type A, Type I, or Type I.
- Y High Level Warning Device (Flagtree)
- Harricade (For Excavation Only)

 Refer to Page 12 of Caltrans manual to select for Details on Type I, Type I, or Type II.
- Flagger

NOTES:

- 1. Flaggers will be used to control traffic at non-signalized intersections.

 Flaggers will use 2 way radios when a 24' (min) road way cannot be maintained.
- 2. No Parking/Tow Away signs will be posted 48 hours in advance to clear

Work Zone

3. All construction zone signs/directional signs will confrom to caltrons specs.

全(925) 408-2159

Signs will be spaced 150 feet apart where applicable.

4. Same traffic control plan will apply at other similar location and opposite

side of street

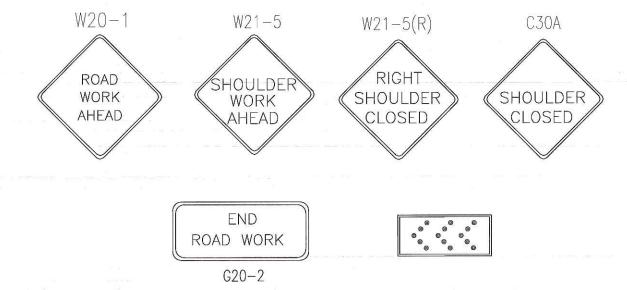
5. Use flag trees on all c-18/c-23 signs.

TABLE 6C-1 RECOMMENDED ADVANCE WARNING SIGN SPACING

	DISTANCE BETWEEN SIGNS*					
ROAD TYPE	А	В	С			
URBAN (LOW SPEED) - 25 MPH OR LESS	100 FEET	100 FEET	100 FEET			
URBAN (HIGH SPEED) - MORE THAN 25 MPH TO 40 MPH	250 FEET	250 FEET	250 FEET			
URBAN (HIGH SPEED) - MORE THAN 40 MPH	350 FEET	350 FEET	350 FEET			
RURAL	500 FEET	500 FEET	500 FEET			
EXPRESSWAY / FREEWAY	1,000 FEET	1,500 FEET	2,640 FEET			

THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN. THE B DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS.

THE C DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS. (THE "FIRST SIGN" IS THE SIGN IN A THREE—SIGN SERIES THAT IS CLOSEST TO THE TTC ZONE. THE "THIRD SIGN" IS THE SIGN THAT IS FURTHEST UPSTREAM FROM THE TTC ZONE.)



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Rev. Description Date

0 ISSUE TO CONSTRUCTION 12/28/20



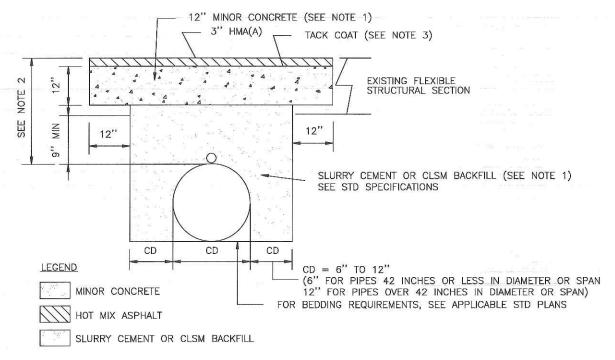
TRAFFIC CONTROL NOTES

TRENCH
1528 E ALPINE AVE, STOCKTON, CA.

5 5 0

CASE 1 : FOR TRAFFIC INDEX (TI) LESS THAN OR EQUAL TO THAN 12

CASE 2: FOR TRAFFIC INDEX (TI) GREATER THAN 12

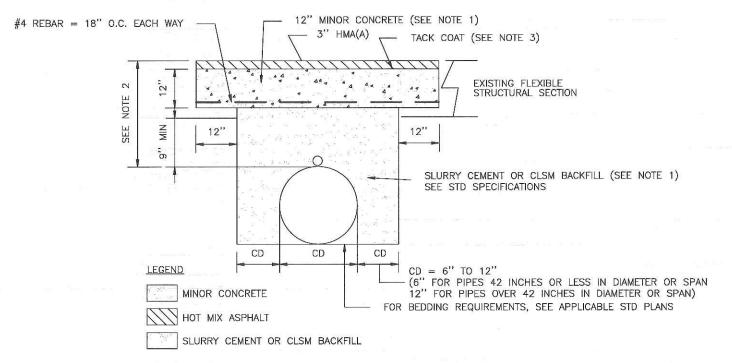


NOTES

- CONCRETE CAP MAY BE RAPID STRENGTH CONCRETE (RSC); IF RSC IS USED, REPLACE THE SLURRY CEMENT OR CLSM BACKFILL WITH LEAN CONCRETE BACKFILL OR RSC DEPENDING UPON THE PROJECT'S TIME CONSTRAINTS.
- FOR NEW INSTALLATIONS, MINIMUM DEPTH OF COVER REQUIREMENTS ARE TO FOLLOW
 GUIDELINES IN THE ENCROACHMENT PERMITS MANUAL OR HIGHWAY DESIGN MANUAL. WHEN
 COVER OVER A REPLACEMENT PIPE/ENCASEMENT PIPE IS LESS THAN 24", A SPECIAL
 DESIGN IS NECESSARY (FOR IN-HOUSE PROJECTS, REFER TO HD DRAINAGE DETAIL
 LIBRARY).
- TACK COAT (ASPHALTIC EMULSION) SHALL BE APPLIED PRIOR TO PLACING HMA(A).
 ALL MATERIALS, WORKMANSHIP, TESTING, AND INSPECTIONS SHALL COMPLY WITH CALTRANS STANDARD SPECIFICATIONS AND PROJECT—SPECIFIC SPECIAL PROVISIONS.

ABBREVIATIONS:

CD = CLEAR DISTANCE
CLR = CLEARANCE
HMA(A) HOT MIX ASPHALT TYPE A
O.C. = ON CENTER
(X) OUTSIDE DIAMTER OF UTILITY OR CULVERT
CLSM CONTROLLED LOW-STRENGHT MATERIAL



NOTES

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- 2. FOR NEW INSTALLATIONS, MINIMUM DEPTH OF COVER REQUIREMENTS ARE TO FOLLOW GUIDELINES IN THE ENCROACHMENT PERMITS MANUAL OR HIGHWAY DESIGN MANUAL. WHEN COVER OVER A REPLACEMENT PIPE/ENCASEMENT PIPE IS LESS THAN 24", A SPECIAL DESIGN IS NECESSARY (FOR IN-HOUSE PROJECTS, REFER TO HD DRAINAGE DETAIL LIBRARY).
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CLSM CONTROLLED LOW-STRENGHT MATERIAL

TRENCH PAVING DETAILS PAVED TRAVEL WAY WITHIN STATE'S RIGHT-OF-WAY

SCALE: N.T.S.

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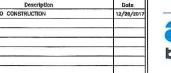




全(925) 408-2159

e–⊠ splanneng@gmail.com

^A www.planneng.com





TRENCH F

TRENCH PAVING DETAILS
TRENCH
528 E ALPINE AVE, STOCKTON, CA.

SHEET, NO.
6 OF 9

SMOOTHWALL SPECS

	PIPE SIZE	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	21/2"	3"	4"	5"	6"	8"	10"	12"
	Nom OD (in)	0.840	1.050	1.315	1.660	1.900	2.375	2.875	3.500	4.500	5.563	6.625	8.625	10.750	12.750
WALL	OD Tolerence +/-	0.004	0.005	0.007	0.008	0.010	0.012	0.014	0.018	0.023	0.028	0.033	0.043	0.054	0.064
TYPE	Bend Radius (in)-Supported	8	10	13	17	19	24	29	39	50	61	73	155	194	230
	Bend Radius (in)-Unsupported	16	20	26	34	38	48	58	78	100	122	146	233	290	344
	Min. Wall (in)	0.109	0.113	0.133	0.140	0.145	0.154	0.203	0.216	0.237	0.258	0.280	0.322	0.365	0.406
The State of the S	Wall Tolerence +	0.020	0.020	0.020	0.020	0.020	0.020	0.024	0.026	0.028	0.031	0.034	0.039	0.044	0.049
SCH-40	Avg ID (in)	0.620	0.804	1.029	1.360	1.590	2.047	2.445	3.042	3.998	5.016	6.031	7.942	9.976	11.889
	Weight (#/ft)	0.111	0.148	0.217	0.293	0.350	0.469	0.740	0.969	1.380	1.872	2.432	3.661	5.215	6.846
	Safe Working Load	610	798	1,340	1,604	1,919	2,579	4,090	5,348	7,618	10,320	13,395	20,158	28,580	5,348
	Min. Wall (in)	0.147	0.154	0.179	0.191	0.200	0.218	0.276	0.300	0.337	0.375	0.432			
	Wall Tolerence +	0.020	0.020	0.021	0.023	0.024	0.026	0.033	0.036	0.040	0.045	0.052			
SCH-80	Avg ID (in)	0.526	0.722	0.936	1.255	1.476	1.913	2.290	2.864	3.786	4.768	5.709			
	Weight (#/ft)	0.139	0.188	0.276	0.382	0.463	0.641	0.978	1.310	1.914	2.657	3.656			
	Safe Working Load	768	1,040	1,533	2,116	2,564	3,545	5,409	7,238	10,578	14,669	20,172			

NOTES:

1	Ren	d Radius	

1/2" through 21/2" Supported Bend Radius 10 times the OD Unsupported Bend Radius 20 times the OD 3" through 6" Supported Bend Radius 11 times the OD Unsupported Bend Radius 22 times the OD 8" through 16" Supported Bend Radius 18 times the OD Unsupported Bend Radius 27 times the OD

During cable placement, large sweeping bends are recommended over tighter bends. Pre-formed sweeps are recommended for conduit size 8" through 16" diameters. "Safe Working Load" is calculated using a 20% safety factor with the minimum resin tensile strength of 3,000 psi, the average OD and minimum wall thickness.

Product Specifications

All Smoothwall conduit dimensions meets or exceeds one or more of the following specifications: ASTM F-2160, ASTM D-3035, ASTM D-2239, ASTM D-3485, NEMA TC-7, UL 651, UL 19990, Bellcore GR-356

Internal or external ribs are in addition to the average wall and for determining OD and ID dimensions. The average rib height to be added is 0.020"

Add 0.016 #/ft ribbed products 1 1/2" and less. For 2" and large, add 0.025 #/ft

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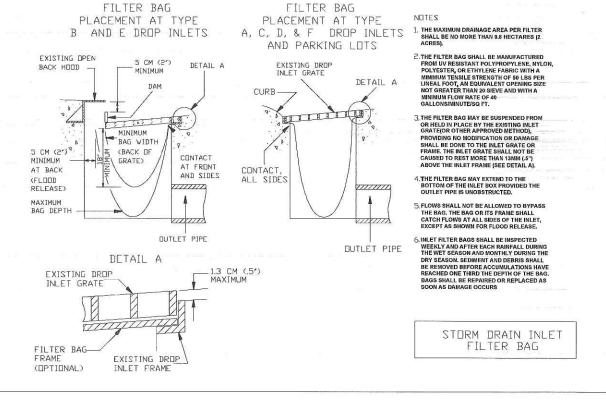


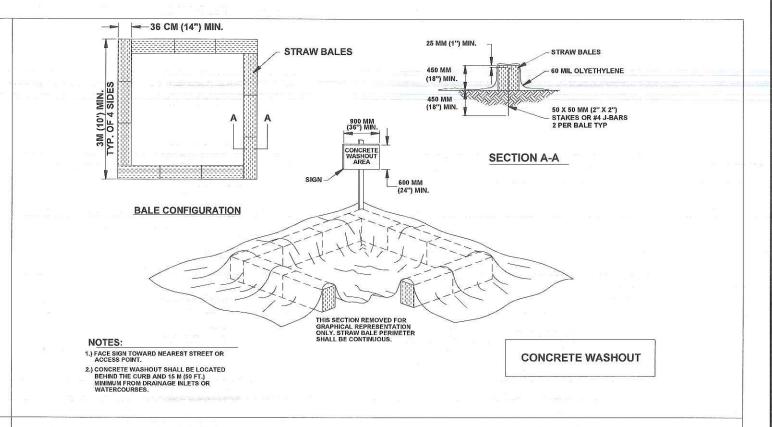
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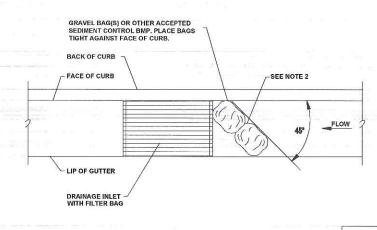
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SHEET, NO.

STORM WATER PROTECTION PLAN







PLAN VIEW

NOTES:

1.) SEDIMENT TRAPPED UPSTREAM OF SEDIMENT CONTROL BMP SHALL BE REMOVED WEEKLY AND PRIOR TO A RAINFALL EVENT

2.) PLACE BMP'S TIGHTLY TOGETHER AT JOINTS TO PREVENT OR MINIMIZE SEEPAGE AT JOINTS. INLET SEDIMENT CONTROL

CALL BEFORE YOU DIG UNDERGROUND SERVICE ALERT 1-800-227-2600





	Rev.	Description	Date	
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CONSTRUCTION DETAILS
TRENCH
STORM WATER PROTECTION DETAIL

		DWG. NO.
Designed By : PlannEng	Scale : AS SHOWN	
Drawn By : PlannEng	Date : 12/28/17	9
Checked By : PlannEng	Job No. : 100015654	

SHEET. NO.