BACKGROUND REPORT

California's Density Bonus Law is a mechanism which allows developers to obtain more favorable local development requirements in exchange for offering to build or donate land for affordable or senior units. The Density Bonus Law (found in California Government Code Sections 65915 – 65918) provides developers with powerful tools to encourage the development of affordable and senior housing, including up to a 50% increase in project densities, depending on the amount of affordable housing provided. The Density Bonus Law is about more than the density bonus itself, however. It is actually a larger package of incentives intended to help make the development of affordable and senior housing economically feasible. Other tools include reduced parking requirements, and incentives and concessions such as reduced setback and minimum square footage requirements. Often these other tools are even more helpful to project economics than the density bonus itself, particularly the special parking benefits. Sometimes these incentives are sufficient to make the project pencil out, but for other projects financial assistance is necessary to make the project feasible.

In determining whether a development project would benefit from becoming a density bonus project, developers also need to be aware that:

- The Density Bonus is a state mandate. A developer who meets the requirements of the state law is entitled to receive the density bonus and other benefits as a matter of right. As with any state mandate, some local governments will resist complying with the state requirement. But many local governments favor the density bonus as a helpful tool to cut through their own land use requirements and local political issues.
- Use of a density bonus may be particularly helpful in those jurisdictions that impose inclusionary housing requirements for new developments.
- Special development bonuses are available for developers of commercial projects who partner with affordable housing developers to provide onsite or offsite affordable housing. Special bonuses are also available for condominium conversion projects and projects that include child care facilities.
- The Legislature has recently added density bonuses for housing developments for foster youth, disabled veterans, homeless persons and college students.

Cities and counties are required to grant a density bonus and other incentives or concessions to housing projects which contain one of the following:

- At least 5% of the housing units are restricted to very low income residents.
- At least 10% of the housing units are restricted to lower income residents.
- At least 10% of the housing units in a for-sale common interest development are restricted to moderate income residents.
- At least 10% of the housing units are for transitional foster youth, disabled veterans or homeless persons, with rents restricted at the very low income level.
- At least 20% of the housing units are for low income college students in housing dedicated for full-time students at accredited colleges.
- The project donates at least one acre of land to the city or county for very low income units, and the land has the appropriate general plan designation, zoning, permits and approvals, and access to public facilities needed for such housing.
- The project is a senior citizen housing development (no affordable units required).

• The project is a mobile home park age-restricted to senior citizens (no affordable units required).

Affordable rental units must be restricted by an agreement which sets maximum incomes and rents for those units. As of January 1, 2015, the income and rent restrictions must remain in place for a 55 year term for very low or lower income units. Rents must be restricted as follows:

- For very low income units, rents may not exceed 30% x 50% of the area median income for a household size suitable for the unit.
- For lower income units, rents may not exceed 30% x 60% of the area median income for a household size suitable for the unit.
- Area median income is determined annually by regulation of the California Department of Housing and Community Development, based upon median income regulations adopted by the U.S. Department of Housing and Urban Development.
- Rents must include a reasonable utility allowance.
- Household size appropriate to the unit means 1 for a studio unit, 2 for a one bedroom unit, 3 for a two bedroom unit, 4 for a three bedroom unit, etc. In many cases, achieving a reduction in parking requirements may be more valuable than the additional permitted units.

The Density Bonus Law is often used by developers to obtain more housing than the local jurisdiction would ordinarily permit, it can also be a helpful land use tool. The density bonus can provide a useful mechanism for increasing allowable density without requiring local officials to approve general plan amendments and zoning changes. A project that satisfies the requirements of the Density Bonus Law often can obtain the necessary land use approvals through the award of the density bonus units and requested concessions and incentives, without having to amend the underlying land use requirements.

Although there is no specific density bonus exemption from the California Environmental Quality Act, many density bonus projects are likely candidates for urban infill and affordable housing exemptions from CEQA. One commonly invoked exemption is the Class 32 urban infill exemption found in CEQA Guidelines Section 15332. That exemption is available if the project is consistent with applicable general plan designation and zoning, the site is five acres or less and surrounded by urban uses, is not habitat for endangered, rare or threatened species, does not have any significant effects relating to traffic, noise, air quality or water quality, and is adequately served by utilities and public services. Other exemptions are available for high density housing projects near major transit stops (CEQA Guidelines Section 15195) and affordable housing projects of up to 100 units (CEQA Guidelines Section 15194).

Developer incentives are(1) Eliminate requirement for 75% minimum street wall; and (2) Eliminate requirement for 10 ft landscape buffer (this would otherwise be required along the north side of parking lot).

50% Area Median Income Limits for National City effective April 1, 2021								
Family Size	1	2	3	4	5	6	7	8
	\$42,450	\$48,500	\$54,550	\$60,600	\$65,450	\$70,300	\$75,150	\$80,000

The site plans for the apartment project at 1628 Orange Street start on the following page.

ABBREVIATIONS

AB:	ANCHOR BOLT	LB:
ACT:	ACTUAL	LN:
AD:	AREA DRAIN	LR:
AFF:	ABOVE FINISHED FLOOR	LT:
AIA:	AMERICAN INSTITUTE OF ARCHITECTS	LTG:
ALT:	ALTERNATE	MAINT
ALUM:	ALUMINUM	MAX:
APPROX:	APPROXIMATE	MECH:
ASTM:	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MIN:
BOT:	BOTTOM	MISC:
BTU:	BRITISH THERMAL UNITS	MO:
BYP:	BY PASS	NTS:
CAB:	CABINET	OC:
CF:	CUBIC FEET	OH:
CL:	CENTERLINE, CLOSET	OPP:
CMU:	CONCRETE MASONRY UNIT	PL:
CONT:	CONTINUOUS	PSI:
DEMO:	DEMOLITION	RA:
DIA:	DIAMETER	RAD:
DIAM:	DIAMETER	RCP:
DIFF:	DIFFUSER	RD:
DIM:	DIMENSION	REQ:
		RM:
		RO:
EQ:	EQUAL	ROW:
EXIST:	EXISTING	SF:
FAR:	FLOOR AREA RATIO	SIM:
FDN:	FOUNDATION	SJS:
FFE:	FINISHED FLOOR ELEVATION	SPEC:
FT:	FOOT, FEET	SQ:
FTG:	FOOTING	SS:
FURR:	FURRING	STC:
GA:	GAUGE, GAGE	STD:
GALV:	GALVANIZED	STOR:
GFI:	GROUND FAULT INTERRUPTED	STRUC
GYP:	GYPSUM	T&G:
HP:	HIGH POINT	TEMP:
HT:	HEIGHT	THRU:
HVAC:	HEATING, VENTILATING & AIR CONDITIONING	IV:
HVY:	HEAVY	IW:
IN:	INCH	IYP:
INFO:	INFORMATION	UL:
INT:	INTERIOR	UNO:
K:	KELVIN (TEMPERATURE)	VA:
KIT:	KITCHEN	

3:	POUND (WEIGHT), LAG BOLT
N:	LENGTH
R:	LIVING ROOM
Т:	LIGHT
TG:	LIGHTING
AINT:	MAINTENANCE
AX:	MAXIMUM
ECH:	MECHANICAL
IN:	MINIMUM
ISC:	MISCELLANEOUS
0:	MASONRY OPENING
TS:	NOT TO SCALE
C:	ON CENTER
H:	OVERHEAD
PP:	OPPOSITE
L:	PLATE
SI:	POUNDS PER SQUARE INCH
A:	RETURN AIR
AD:	RADIUS
CP:	REFLECTED CEILING PLAN
D:	ROOF DRAIN
EQ:	REQUIRE
M:	ROOM
0:	ROUGH OPENING
OW:	RIGHT OF WAY
F:	SQUARE FOOT
IM:	SIMILAR
JS:	SILICONE JOINT SEALANT
PEC:	SPECIFICATION
Q:	SQUARE
S:	STAINLESS STEEL
TC:	SOUND TRANSMISSION CLASS
TD:	STANDARD
TOR:	STORAGE
TRUCT:	STRUCTURAL
&G:	TONGUE & GROOVE
EMP:	TEMPERED
HRU:	THROUGH
V:	TELEVISION
W:	TOP OF WALL
YP:	TYPICAL
L:	UNDERWRITERS' LABORATORIES
NO:	UNLESS NOTED OTHERWISE

VOLT AMPERE

CALGREEN NOTES

- BUILDINGS. (CGBSC 4.106.3) STRINGENT; OR
- SALVAGED FOR REUSE. (CGBSC 4.408.1 THROUGH 4.408.5)
- THE FOLLOWING: (CGBSC 4.410.1)

- v. WATER REUSE SYSTEMS c. INFORMATION FROM LOCAL UTILITY, WATER AND WASTE RECOVERY PROVIDERS ON METHODS TO FURTHER REDUCE RESOURCE CONSUMPTION, INCLUDING RECYCLE PROGRAMS AND LOCATIONS. d. PUBLIC TRANSPORTATION AND/OR CARPOOL OPTIONS AVAILABLE IN THE AREA. e. EDUCATIONAL MATERIAL ON THE POSITIVE IMPACTS OF AN INTERIOR RELATIVE HUMIDITY BETWEEN 30-60% AND WHAT METHODS AN OCCUPANT MAY USE TO MAINTAIN THE RELATIVE HUMIDITY LEVEL IN THAT RANGE. f. INFORMATION ABOUT WATER CONSERVING LANDSCAPE AND IRRIGATION DESIGN AND CONTROLLERS WHICH CONSERVE WATER. g. INSTRUCTIONS FOR MAINTAINING GUTTERS AND DOWNSPOUTS AND THE IMPORTANCE OF DIVERTING
- WATER AT LEAST 5 FT AWAY FROM FOUNDATIONS. h. INFORMATION ON REQUIRED ROUTINE MAINTENANCE MEASURES, INCLUDING, BUT NOT LIMITED TO, CAULKING, PAINTING, GRADING AROUND THE BUILDING, ETC.
- 108.50' ______ ____ 2 (5) (4) (3) $\overline{}$ P (14) (11) ΒP 10 **M M** - UNIT 2 PRIVA UNIT 1 PRIVATE OPEN SPACE: OPEN SPACE: ONE STORY DWELLING —3'-6" 339 SF 241 SF (BY OTHERS) ONE STORY DWELLING 12'-0" (BY OTHERS) 6'-1 1/4" 17'-7 3/4" 2'-9 1/2" / X K X 16'-1/1 3/4" 15'-5 UNIT 3 PRIVATE OPEN SPACE: 140 SF 213 SF <u>3</u> ONE STORY DWELLING ONE STORY DWELLING (BY OTHERS) (BY,OTHERS) 11-9" 11'-5" 10'-11 1/2" 11'-7 1/2" 14'-8" 14'-8" UNIT 5 PRIVATE OPEN SPACE: ිරු 325 SF 331 SF <u>5</u> <u>6</u> 91'-03/4" ONE STORY DWELLING ONE STORY DWELLING (BY OTHERS) (BY OTHERS) 21'-6" _____3'-6" UNIT 8 PRIVATE OPEN SPACE: 284 SF -4'-4" 6'-11 25'-10" 25'-11" 7'-3 1/4" 4'-3" ONE STORY DWELLING ONE STORY DWELLING (BY OTHERS) (BY OTHERS) 108.50' 150' HOSE PULL



1. SITE GRADING AND DRAINAGE SYSTEMS SHALL BE DESIGNED TO MANAGE ALL SURFACE WATER FLOWS FROM ENTERING

2. OUTDOOR PORTABLE WATER USE IN LANDSCAPE AREAS SHALL COMPLY WITH ONE OF THE FOLLOWING: a. LOCAL WATER EFFICIENT LANDSCAPE ORDINANCE OR THE CURRENT CALIFORNIA DEPARTMENT OF WATER RESOURCES' MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO), WHICHEVER IS MORE

> b. PROJECTS WITH AGGREGATE LANDSCAPE AREAS LESS THAN 2,500 SF MAY COMPLY WITH MWELO'S APPENDIX D PESCRIPTIVE COMPLIANCE OPTION (CGBSC 4.304.1)

3. A MINIMUM A MINIMUM OF 65% OF NON-HAZARDOUS CONSTRUCTION AND DEMOLITION WASTE SHALL BE RECYCLED OR

4. CONTRACTOR SHALL PREPARE A MANUAL, COMPACT DISC, WEB-BASED REFERENCE OR OTHER MEDIA ACCEPTABLE TO THE ENFORCING AGENCY, AND PLACED IN THE BUILDING AT THE TIME OF FINAL INSPECTION, WHICH INCLUDES ALL OF

- a. DIRECTIONS TO THE OWNER OR OCCUPANT THAT THE MANUAL SHALL REMAIN WITH THE BUILDING THROUGHOUT THE LIFE CYCLE OF THE STRUCTURE.
- b. OPERATION AND MAINTENANCE INSTRUCTIONS FOR THE FOLLOWING: i. EQUIPMENT AND APPLIANCES, INCLUDING WATER-SAVING DEVICES AND SYSTEMS, HVAC
 - SYSTEMS, PHOTOVOLTAIC SYSTEMS, ELECTRIC VEHICLE CHARGERS, WATER HEATING SYSTEMS AND OTHER MAJOR APPLIANCE AND EQUIPMENT.
 - ii. ROOF AND YARD DRAINAGE, INCLUDING GUTTERS AND DOWNSPOUTS iii. SPACE CONDITIONING SYSTEMS, INCLUDING CONDENSERS AND AIR FILTERS.
 - iv. LANDSCAPE IRRIGATION SYSTEMS.
- i. INFORMATION ABOUT STATE SOLAR ENERGY AND INCENTIVE PROGRAMS AVAILABLE.

DRAWING INDEX

	NUMBER	SHEET NAME
	A001	TITLE SHEET & OPEN SPACE SITE PLAN
	A100	SITE PLAN
	A101	SITE DETAILS
	A102	TRASH ENCLOSURE
	P0.1	PLUMBING SITE PLAN, SCHEDULES AND CALCULATIONS
	D-1	TITLE SHEET
	D-2	NOTES
	D-3	SECTIONS AND KEY MAP
	D-4	PRECISE GRADING PLAN
	D-5	SITE CROSS SECTIONS
	D-6	EROSION CONTROL PLAN
	L1	LANDSCAPE CONSTRUCTION NOTES
	L2	LANDSCAPE CONSTRUCTION PLAN
	L3	LANDSCAPE CONSTRUCTION DETAILS
	L4	LANDSCAPE IRRIGATION NOTES
	L5	LANDSCAPE IRRIGATION PLAN
	L6	LANDSCAPE IRRIGATION DETAILS
	L7	LANDSCAPE IRRIGATION DETAILS
	L8	LANDSCAPE IRRIGATION DETAILS
TE	L9	PLANT MATERIAL LEGEND
.1E ;.	L10	LANDSCAPE PLANTING PLAN
	L11	LANDSCAPE PLANTING DETAILS

L12 LANDSCAPE LIGHTING PLAN

UNIT 4 PRIVATE OPEN SPACE:

UNIT 6 PRIVATE OPEN SPACE:

- COMMON OPEN SPACE: 1,972 SF

> UNIT 7 PRIVATE OPEN SPACE: 287 SF

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH FEDERAL, STATE AND LOCAL BUILDING CODES AND REGULATIONS, INCLUDING NFPA, TITLE 19, LOCAL CITY OF NATIONAL CITY MUNICIPAL CODES AND THE FOLLOWING STATE BUILDING CODES:	OWNER/APPLICANT	ORANGE ST. PARTNERS, LLC KEITH ROBINSON, OWNER	
2019 CALIFORNIA BUILDING CODE 2019 CALIFORNIA RESIDENTIAL CODE		3559 4TH ST SAN DIEGO, CA 92103 P 619 202 7283	
2019 CALIFORNIA ELECTRICAL CODE 2019 CALIFORNIA MECHANICAL CODE			
2019 CALIFORNIA PLUMBING CODE	ARCHITECT	CLAD INC. COLIN LOWRY, AIA	
2019 CALIFORNIA ENERGY CODE 2019 CALIFORNIA HISTORICAL BUILDING CODE		4766 32ND ST	
2019 CALIFORNIA FIRE CODE		SAN DIEGO, CA 92116 P 619 800 8105	CLAD Inc.
2019 CALIFORNIA EXISTING BUILDING CODE 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE			4766 32nd Street, San Diego, CA 92116
	CIVIL ENGINEER	PASCO LARET SUITER & ASSOCIATES WILL MACK, PE, PLS, ASSOCIATE PRINCIPAL	619.800.8105 info@cladinc.us
2. CONTRACTOR SHALL COORDINATE AND/OR OBTAIN ALL BUILDING PERMITS REQUIRED FOR CONSTRUCTION AND CERTIFICATES OF OCCUPANCY.		535 NORTH HIGHWAY 101, STE A SOLANA BEACH, CA 92075 P 858 259 8212 EXT 112	cladinc.us
3. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL ASPECTS OF SAFETY DURING BUILDING CONSTRUCTION AND SHALL PROVIDE ADEQUATE SHORING AND BRACING TO ENSURE SAFETY.			NSED ARCHIA
4. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, AND PROCEDURES.		KYLE SIMON, PLA P 619 370 1080	COLIN LOWRY C C-35202 ★
5. ALL DIMENSIONS ARE TO FACE OF STUD, CONCRETE OR MASONRY, UNLESS NOTED OTHERWISE. DO NOT SCALE DRAWINGS.		SILVERCREST HOMES KEVIN OVARD, SALES REPRESENTATIVE 299 NORTH SMITH AVENUE	U BEN. 12 21-25 T
6. ALL DIMENSIONS AND SITE CONDITIONS TO BE FIELD VERIFIED AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NOTIFY THE ARCHITECT OF ANY DISCREPANCY PRIOR TO COMMENCEMENT OF WORK.		CORONA, CA 92880 P 951 213 0401	All drawings and specifications are the property of the
7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER INDICATED ON THE PLANS OR NOT, AND TO PROTECT THEM FROM DAMAGE.			architect and shall not be reproduced in any manner, without expressed written permission from CLAD Inc.
8. DURING CONSTRUCTION, AND PRIOR TO THE INCORPORATION OF ANY CHANGES, REVISIONS, MODIFICATIONS, AND/OR DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS, CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT AND SHALL OBTAIN APPROVAL FROM THE GOVERNING BUILDING OFFICIAL BEFORE PROCEEDING WITH THE WORK.	PROJECI		
9. THE MANUFACTURERS, PRODUCTS AND EQUIPMENT LISTED ESTABLISH PERFORMANCE REQUIREMENTS.	ADDRESS	1628 ORANGE STREET NATIONAL CITY, CA 91950	
SUBSTITUTIONS OF EQUAL PERFORMANCE MAY BE SUBMITTED FOR THE ARCHITECT'S APPROVAL.	ASSESSOR'S PARCEL NUMBER	561-160-16	
10. ALL MATERIALS SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS/SPECIFICATIONS UNLESS NOTED OTHERWISE.	LEGAL DESCRIPTION	PARCEL 1 THE NORTHERLY 200.00 FEET OF THE EASTERLY 108.50 FEET OF THE WESTERLY 221.50 FEET OF LOT E, IN BLOCK 5 OF UNCOLN ACRES ORCHARD SUBDIVISION. IN THE CITY OF NATIONAL CITY, COUNTY OF	
11. SPECIFIC NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.		SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO MAP THEREOF NO. 1785, FILED IN THE OFFICE OF THE COUNTY RECORDER OF SAN DIEGO COUNTY, MARCH 6, 1924.	
12. AS A CONDITION OF APPROVAL, A CERTIFICATE OF COMPLETION SHALL BE SUBMITTED TO THE PLANNING DIVISION WITHIN TEN DAYS OF THE INSTALLATION OF THE LANDSCAPING AND PRIOR TO BUILDING PERMIT FINAL.		FEET OF THE NORTHERLY 25.00 FEET OF SAID LOT E.	
13. AS A CONDITION OF APPROVAL, A COPY OF THE RESTRICTIVE COVENANT FOR THE AFFORDABLE UNIT SHALL BE SUBMITTED TO THE PLANNING DIVISION FOR REVIEW PRIOR TO THE ISSUANCE OF THE BUILDING PERMIT.		THE WESTERLY 15.00 FEET OF THE EASTERLY 30.00 FEET OF LOT F .	
AREA CALCULATIONS		PARCEL 3 AN EASEMENT AND RIGHT OF WAY FOR ROAD PURPOSES OVER THE EASTERLY 15.00 FEET OF LOT E, AND OVER THE NORTHERLY 50.00 FEET LYING EASTERLY OF THE EASTERLY LINE OF THE WESTERLY 221.50 FEET OF LOT E.	
FLOOR AREA CALCULATIONS	SITE AREA	21,700 SF (0.50 ACRES)	
LIVING AREA PER DU: 2 BB'S DU 757 SE X 1 DU'S - 757 SE			
3 BR'S DU 947 SF X 7 DU'S = 6,629 SF TRASH ENCLOSURE 89 SF TOTAL FLOOR AREA 7 475 SE	PROJECT DESCRIPTION	DETACHED FACTORY BUILT DWELLING UNITS (BY OTHERS), COMMON OPEN SPACE, AND ON GRADE PARKING.	
	ZONING CLASSIFICATION	MXC-1	
EXTERIOR PATIOS & DECKS: FRONT STAIR LANDING 25 SF X 8 DU'S = 200 SF	CONSTRUCTION TYPE	TYPE V-B	
REAR STAIR LANDING 9 SF X 8 DU'S = 72 SF			
2/2 SF	OCCUPANCY	R-3	
USABLE OPEN SPACE REQUIREMENTS: REQUIRED: COMMON OPEN SPACE:	DWELLING UNITS	ALLOWED: 48 DU PER ACRE 0.50 X 48 = 24 MAX DU'S ALLOWED	
300 SF X 8 DU = 2,400 SF		PROVIDED: 8 DWELLING UNITS	
-200 SF X 8 D0 = <u>-1,000 SF</u> 800 SF	PARKING	REQUIRED: 0.5 / BR X 23 BR'S = 11.5 = 12 PARKING SPACES MIN.	
PRIVATE OPEN SPACE: 60 SF PER DU		PROVIDED: 11 STANDARD SPACES 1 VAN ACCESSIBLE SPACE	
PROVIDED: COMMON OPEN SPACE: 1,972 SF PRIVATE OPEN SPACE:		<u>2 MOTORCYCLE SPACES</u> 14 TOTAL (12 COUNT TOWARDS REQ'D TOTAL)	
UNIT 1 183 SF	SPRINKLERS	AUTOMATIC FIRE SPRINLKERS PROVIDED IN ALL UNITS	
UNIT 2 260 SF UNIT 3 166 SF			1628 Orange Street National City, CA 01050
UNIT 4 313 SF			
UNIT 5 231 SF UNIT 6 237 SF			10/11/2022
UNIT 7 256 SF			
UNIT 8 256 SF		MAP	Project Number: NC-2021-11136, 11147, 11147.e
PRIVATE STORAGE REQUIREMENTS: REQUIRED			Revisions
150 CF PER 2BR UNIT			

FLOOR AREA CALCULATIONS LIVING AREA PER DU:		
2 BR'S DU	757 SF X 1 DU'S = 757 SF	
3 BR'S DU	947 SF X 7 DU'S = 6,629 SF	
TRASH ENCLOSURE	89 SF	
TOTAL FLOOR AREA	7,475 SF	
EXTERIOR PATIOS & DECKS:		
FRONT STAIR LANDING	25 SF X 8 DU'S = 200 SF	
REAR STAIR LANDING	9 SF X 8 DU'S = 72 SF	
	272 SF	
USABLE OPEN SPACE REQUIRE	MENTS:	
REQUIRED:		
COMMON OPEN SPACE:		
	300 SF X 8 DU = 2,400 SF	
	-200 SF X 8 DU = <u>-1,600 SF</u>	
	800 SF	
PRIVATE OPEN SPACE:	60 SF PER DU	
PROVIDED:		
COMMON OPEN SPACE:	1,972 SF	
PRIVATE OPEN SPACE:		
UNIT 1	183 SF	
UNIT 2	260 SF	
UNIT 3	166 SF	
UNIT 4	313 SF	
UNIT 5	231 SF	
UNIT 6	237 SF	
UNIT 7	256 SF	
UNIT 8	256 SF	
PRIVATE STORAGE REQUIREM	ENTS:	

200 CF PER 3BR UNIT

PROVIDED:

2BR & 3BR UNITS: 2'x2'x8' LINEN CLOSET 32 CF 5'x2'x4' STORAGE ABOVE W/D 40 CF EXTERIOR STORAGE UNIT 180 CF TOTAL 252 CF PER DU

EGRESS CALCULATIONS

TOTAL FLOOR AREA AREA PER OCCUPANT

TOTAL OCCUPANTS

REQUIRED

PROVIDED

NUMBER OF EXITS

9,470 SF 200 SF 9,470 / 200 = 47.3 = 48 OCCUPANTS

8

2 PER CBC TABLE 1006.3.1

DEVELOPER INCENTIVES

ONE (12.5%) UNIT WILL BE RESERVED FOR VERY LOW INCOME HOUSEHOLDS IN RETURN FOR REDUCED PARKING AND 2 DEVELOPER INCENTIVES.

1. ELIMINATE REQUIREMENT FOR 75% MIN. STREET WALL 2. ELIMINATE REQUIREMENT FOR 10' LANDSCAPE BUFFER

PROJECT TEAM







1 SITE PLAN 1/16" = 1'-0"

07 36 81'-0" 24'-6" 13'-6" 54'-0" 20'-0". 6 PARKING SPACES @ 9'W EA. 10 _____15 rs Y 108.50' 78.50' 18′-0' TYP òð 10 (5) $\begin{bmatrix} \mathbf{\hat{o}}\\\mathbf{\hat{m}} \end{bmatrix}$ (4)(2) 6 (1) (3) 5 (6) (4) 3 2 $\overline{(7)}$ (5) "┿━─┤ 0 X 25'-0" RYS $\overline{}$ 93.50' @ RS1 A101 UNNAMED PUBLIC ROAD 20'-0" 50'-0" \Longrightarrow 5 **X** ⁴√ _____¥ P 9'-0" 108.50' $\times \rightarrow$ 40 2 KX XK+ 22 ____3'-6" -9 3/4" ₹ 20'-6 1/4" <u>2</u> ONE STORY DWELLING A101 4⁷-0" K ★ ONE STORY DWELLING (BY OTHERS) (BY OTHERS) 15'-10 1/2" 2'-2 3/4" 11'-11" 30 37 3'-1 3/4" 17'-5 1/4" 15'-5" ***** \mathbf{v} 7'-3" 4'-0" K > 4 ONE STORY DWELLING ONE STORY DWELLING 08 (BY OTHERS) (BY OTHERS) A101 13'-4["] **X**5'-3 3/4" 13'-2 1/2" 12'-8" 5'-10 1/4"^{_/} 34 6 A101 ONE STORY DWELLING ONE STORY DWELLING 21'-6" (BY OTHERS) (BY OTHERS) 17'-10 1/2" 30 3 18'-2 3/4" 8'-8" 4'-2" $|\mathbf{K} \times \mathbf{X} \rangle$ 4'-1 1/4" 7'-3" 3'-1 3/4" 7'-3 **1**4 8 ONE STORY DWELLING ONE STORY DWELLING (BY OTHERS) (BY OTHERS) 4'-0"-37 37 -3'-2" 5'-10 1/4" <u>~</u>5'-2 3/4" డు 108.50' ర్మ 150' HOSE PULL 3. 6" 30 30



- 01 BACKFLOW PREVENTERS PER CIVIL PLANS
- 03 FIRE ACCESS VEHICLE 04 6'H FENCE
- 06 CONCRETE WALKWAY
- 07 CONCRETE CURB PER CIVIL PLANS
- 08 LANDSCAPING AREA PER LANDSCAPING PLANS
- 09 PLANTER WALL PER CIVIL PLANS
- 10 RAISED PLANTER BMP PER CIVIL PLANS 11 DETECTABLE WARNING PER CIVIL PLANS
- 13 PRIVATE PATIO AND YARD SPACE
- 14 ACCESSIBLE CONCRETE SLAB WALKWAY, MIN 4' WIDE
- 15 PARKING SPACES OVERHANG 3' INTO BMP PLANTER PER CIVIL PLANS
- 16 3' WIDE WALKWAY
- 17 USPS MAILBOX, 4C PEDESTAL MAILBOX MODEL #3412D-11 MNFR BY SALSBURY INDUSTRIES. COLOR TBD BY OWNER. 18 ACCESSIBLE CONCRETE CURB RAMP PER CBC 1112A
- 19 VAN ACCESSIBLE PARKING SPACE PER CBC 1109A.8.6
- 21 ACCESSIBILITY SIGN PER CBC 1109A.8.8
- 22 ELECTRICAL METERS, 200A PANEL PER UNIT, 200A PANEL FOR COMMON AREAS 25 6'H CMU TRASH/RECYCLING ENCLOSURE WITH SLIDING
- WOOD DOORS
- 29 EXISTING POWER POLES AND OVERHEAD LINES
- 30 POURED IN PLACE CONCRETE STAIR AND LANDING
- 34 USABLE OPEN SPACE 35 SDGE TRANSFORMER PAD

R=145.00'

29

-

L= 16.35'

- 36 EXISTING DRIVEWAY
- 37 FUTURE TEMPORARY STORAGE UNIT
- 38 OUTLINE OF ROOF EAVE ABOVE
- 39 OUTLINE OF ROOF OVER PORCH ABOVE
- 40 4'x4' ENCLOSED PUMP STORAGE ROOM 41 IRRIGATION BACKFLOW PREVENTER PER CIVIL PLANS

SITE PLAN NOTES

- 1. SEE CIVIL PLANS FOR GRADING AND DRAINAGE INFORMATION. 2. SEE LANDSCAPE PLANS FOR PLANTING AND IRRIGATION INFORMATION. 3. PROVIDE BUILDING ADDRESS NUMBERS, VISIBLE AND LEGIBLE FROM THE
- STREET OR ROAD FRONTING THE PROPERTY. 4. SURFACE WATER WILL DRAIN AWAY FROM FOUNDATION WALLS. THE
- GRADE SHALL FALL A MINIMUM OF 6" WITHIN THE FIRST 10'. 5. PROJECTS WHICH DISTURB LESS THAN ONE ACRE OF SOIL SHALL MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION BY
- FOLLOWING ONE OF THE FOLLOWING MEASURES: A. RETENTION BASIN
- B. WHERE STORM WATER IS CONVEYED TO A PUBLIC DRAINAGE SYSTEM, WATER SHALL BE FILTERED BY US OF A BARRIER SYSTEM, WATTLE OR OTHER METHOD APPROVED BY THE ENFORCING AGENCY.
- 6. VENTS AND OTHER MECHANICAL EQUIPMENT ON THE EXTERIOR OF THE DWELLING UNITS WILL BE PAINTED TO MATCH THE ADJACENT EXTERIOR MATERIALS
- 7. WALKS ALONG AN ACCESSIBLE ROUTE OF TRAVEL ARE REQUIRED TO BE 48" MINIMUM WIDTH AND HAVE A SLIP RESISTANT SURFACE. 8. THE MAXIMUM PERMITTED CROSS SLOPE FOR WALKWAYS SHALL BE 1:48.
- 9. ANY ABRUPT LEVEL CHANGES WILL BE LESS THAN 1/2" ALONG ANY ACCESSIBLE ROUTE OF TRAVEL. WHEN CHANGES DO OCCUR, THEY SHALL BE BEVELED WITH A SLOPE OF LESS THAN OR EQUAL TO 1:2. LEVEL CHANGES OF LESS THAN OR EQUAL TO 1/4" MAY BE VERTICAL. 10. CONTRACTOR TO PROVIDE CONDUIT TO THE PARKING ENTRY FOR A
- FUTURE GATE. 11. CONTRACTOR TO PROVIDE CONDUIT FOR FUTURE SOLAR ROOF PANELS FOR EACH UNIT. SIZE OF CONDUIT TO BE COORDINATED WITH SOLAR
- INSTALLER & CONDUIT TO BE LOCATED IN SAME TRENCH AS MAIN POWER. 12. PRIOR TO THE CONTRACTOR REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE SOILS ENGINEER SHALL ADVISE THE
- BUILDING OFFICIAL IN WRITING THAT: A. THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOILS REPORT,
- B. THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED, AND
- C. THE FOUNDATION EXCAVATIONS, THE SOILS EXPANSIVE CHARACTERISTICS AND BEARING CAPACITY CONFORM TO THE SOILS REPORT.

SITE PLAN LEGEND

	HARDSCAPED AREA
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	LANDSCAPED AREA
	PROPOSED BUILDING
50.00'	PROPERTY LINE
	SETBACK LINE
	CENTERLINE OF PUBLIC ROAD
— — SW — —	EXISTING SEWER MAIN
— — WM — —	EXISTING WATER MAIN
	HOSE PULL PATH
01	KEYNOTE; SEE KEYNOTE LEGEND
\geq	FRONT ENTRY DOOR LOCATION
> TW	FRONT ENTRY DOOR LOCATION
TW	FRONT ENTRY DOOR LOCATION TOP OF WALL BOTTOM OF WALL
TW BW EG	FRONT ENTRY DOOR LOCATION TOP OF WALL BOTTOM OF WALL EXISTING GRADE
TW BW EG FG	FRONT ENTRY DOOR LOCATION TOP OF WALL BOTTOM OF WALL EXISTING GRADE FINISHED GRADE
TW BW EG FG FFE	FRONT ENTRY DOOR LOCATION TOP OF WALL BOTTOM OF WALL EXISTING GRADE FINISHED GRADE FINISHED FLOOR ELEVATION
TW BW EG FG FFE ROW	FRONT ENTRY DOOR LOCATION TOP OF WALL BOTTOM OF WALL EXISTING GRADE FINISHED GRADE FINISHED FLOOR ELEVATION RIGHT OF WAY
TW BW EG FG FFE ROW TYP	FRONT ENTRY DOOR LOCATION TOP OF WALL BOTTOM OF WALL EXISTING GRADE FINISHED GRADE FINISHED FLOOR ELEVATION RIGHT OF WAY TYPICAL

EXISTING STREET TREE

CLAD Inc.

4766 32nd Street, San Diego, CA 92116 619.800.8105 info@cladinc.us cladinc.us



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1628 Orange Street National City, CA 91950

10/11/2022 **BUILDING PERMIT SET 3**

Notes

Revisions No Date Project Number: NC-2021-11136, 11147, 11147.e

SITE PLAN

A10







BETWEEN CONCRETE HARDSCAPE AND ANY EXPOSED WOOD FRAMING CONCRETE LANDING

BLOCK FOUNDATION OF DWELLING UNIT (BY OTHERS) -

DWELLING FLOOR (BY

3/4" MAX AT REQUIRED

7 3/4" MAX AT ALL OTHER

PROVIDE METAL FLASHING

OTHERS) —

DOORS -

EGRESS DOOR

D. TYPICAL SLAB EDGE DETAIL

 $6 \frac{\text{STAIR DETAILS}}{1^{"}=1^{"}-0^{"}}$

STAIR NOTES

1. INDIVIDUAL STAIR RISERS MAY VARY, COORDINATE WITH GRADING PLAN FOR FFE AND FINISH GRADE AT EACH UNIT. 2. MAX RISE TO BE 7 3/4" AND MIN TREAT TO BE 10" (MEASURED FROM NOSING PROJECTION)

3. MIN HEADEROOM ABOVE STAIRS TO BE 6'-8". 4. MINIMUM WIDTH TO BE 36".

5. THE GREATEST RISER HEIGHT WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8". THE GREATEST TREAD WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8"



















SHINGLE ROOF -



GATES —

TRASH ENC. FFE 132' - 6"



ROOF T.P. 140' - 6"

TRASH ENC. FFE 132' - 6"







1 TRASH ENCLOSURE PLAN

 $\frac{1}{1/4"} = 1'-0"$

FIBER CEMENT FASCIA BOARD -ROOF T.P. 140' - 6" 16" SQUARE METAL VENT, PAINT TO MATCH METAL SLIDING STUCCO CLAD BLOCK WALL -TRASH ENC. FFE 132' - 6"



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ROOF T.P. 140' - 6" 16" SQUARE METAL VENT, PAINT TO MATCH WALL COLOR —————







$7_{\frac{1/4"=1'-0"}{}}$





		тслі	<u></u>			1 DATU /I			
FIXIO						BED / 1 BATH (UNIT#2)			
FIXTURE TYPF		FIVTI		750/		иот			
		SUPPI		HOT	SUBTOTAL	SUBTOTAL	LOAD	SUBTOTAL	
WATER CLOSET	1	2.5		0	2.5	0.0	3	3	KRAL ENGINEERING
LAVATORY	1	1		0.8	1.0	0.8	1	1	COMPANY
BATHTUB	1	4		3	4.0	3.0	2	2	6035 ZORA STREET
KITCHEN SINK	1	1.5		1.5	1.5	1.3	2	2	LA MESA, CA 91942
DISHWASHER	1	1.5		1.5	1.5	1.5	0	0	T: 619-832-8827
CLOTHES WASHER	₹ 1	4		3	4.0	3.0	3	3	M36716 EXP 03-31-24
TOTAL SUPPLY/LO	AD (FIXTUR	RE UNITS	5)		14.5	9.6		11.0	ALL IDEAS DESIGNS
EQUIVALENT FLOW	N RATE (GP	M)			11	13			ALL IDEAS, DESIGNS
			. <u>.</u>					тс	REPRESENTED BY THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF
FIXTUR									SHALL NOT BE REPRODUCED IN WHOLE OR II
FIXTI IRF TYPF	= оту								PART, NOR CAN ANY STRUCTURES BE BUILT FROM THEM WITHOUT THE EXPRESS PRIOR
		SUPPI	LY	75% HOT	SUBTOTAL	SUBTOTAL	LOAD	SUBTOTAL	WRITTEN PERMISSION OF KRAL ENGINEERIN COMPANY. ANY UNAUTHORIZED REUSE OF
WATER CLOSET	2	2.5		0	5.0	0.0	3	6	THESE PLANS OTHER THAN FOR THE PROJECT AND LOCATION SHOWN IS
LAVATORY	2	1		0.8	2.0	1.6	1	2	PROHIBITED.
BATHTUB	2	4		3	8.0	6.0	2	4	
SHOWER	0	2		1.5	0.0	0.0	2	0	PROJECT NO: KEC-221
KITCHEN SINK	1	1.5		1.3	1.5	1.3	2	2	
	1	1.5		1.5	1.5	1.5	0	0	PROJECT IIILE:
TOTAL SUPPLY/LO		4 RELINITS	.) .)	3	4.0	3.0 13./	3	3 17.0	ORANGE STREET
EQUIVALENT FLOW	N RATE (GP	M)	,, 		16	10		17.0	
		1							RESIDENCES
	FIXTU	REUNI	T C4		ATION - W	HOLF SIT	E		
				W4	ATER SUPPLY	(WSFU)	WASTF I	.OAD (DFU)	
FIXTURI	E TYPE		QTY	FI	XTURF	FIXTURF	FIXTURE	WASTF	
			_	S	UPPLY	SUBTOTAL	LOAD	SUBTOTAL	
WATER CLOSET			15		2.5	37.5	3	45	
LAVATORY			15		1	15.0	1	15	
BATHTUB			15		4	60.0	2	30	
SHOWER			0		2	0.0	2	0	
			8		1.5	12.0	2	16	
CLOTHES WASHER	2		0 8		4	32.0	3	24	
HOSE BIB			1		2.5	2.5	0	0.0	
HOSE BIB (ADD'L)			1		1.0	1.0	0	0.0	
TOTAL SUPPLY/LO	AD (FIXTUR	RE UNITS	5)			172.0		130.0	
EQUIVALENT FLOW	N RATE (GP	M)				59			
DRIP IRRIGATION FLOW RATE (GPM) PER LANDSCPAPE DWG			11.51						
TOTAL SERVICE F	FLOW RAT	E (GPM))			70.51			
AL	LLOWAB	LE WA	TER	PRESS	SURE LOSS	S CALCULA	ATION		BUILDER: ORANGE ST PARTNERS, LLC
MIN AVAILABLE S	STATIC PRE	SSURE	AT C	ONNEC	TION TO PU	BLIC MAIN		42 PSIG	
PRESSURE LOSS	5 THRU 2" N		@ 71 (1 CDM					-2 PSIG	
HEADLOSS (ERO					12 FT v		-1	3.5 PSIG	ARCHITECT:
PIPE FRICTION LC	OSS FROM	200FT (") OF 3"	PVC PI	PE @ 71GPN	.43311/F31 1		-1.1 PSIG	CLAD INC 4766 32ND ST
MIN PRESSURE A				ET	- @	·	2	20.2 PSIG	SAN DIEGO, CA
SET BOOSTER PL		FT TO 7	5 PSI	(~55 PS	BOOST)			75 PSIG	
				@ 16 CI			1)		1628 ORANGE ST
HEAD LOSS (PLIM	/IP TO SHO	WERHE			12 FT v		-/	-5 PSIG	NATIONAL CITY, CA
MINIMUM RESIDU	JAL PRESS		MOS	TREMO	TE SHOWE	RHEAD		-20 PSIG	
PRESSURE AVAIL			RICTI	ON			4	4.8 PSIG	
LENGTH OF PIPE		DG POC	ΤΟ Μ	IOST RE		JRE		290 FT	PLOT DATE: 8/26/22
EQUIVALENT LEN	NGTH OF P	IPE INCL	LUDIN	IG FITTI	NGS		33	3.5 FT	NO. DATE DESCRIPTION
	SSIBLE FR	ICTION	LOSS	9 PER 10		E	1	3.4 PSI/	
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	SC	ы. 40	۲V(IABLE			
BASED ON H	HAZEN-WIL	LIAMS FO		JLA (C=1	50) WITH M	AX. FLOW VE	LOCITY OF	8FPS	
		13 PSI	1001	- i MAX.	COLD M				
PIPE PIP	PE						F11/7		
SIZE I.C	J.	(FP	S)		(GPN	1)	LXI- UN	NIT	
1" 1.1	18	8			27.2	7	4	6	
1-1/4" 1.3	36	8			36.22	2	6	9	
1-1/2" 1.5	59	8			49.5	1	12	23	
2" 2.0	05	8			82.3	0	28	34	
3" 3.0	04	8			180.9	9	8)9	
4" 4.2	20	8			355.4	IJ	22	JU	
									SHEET NAME:
									SITE PLAN, SCHEDULES AND CALCULATIONS

P0.

1628 ORANGE STREET CONSTRUCTION DOCUMENTS CITY OF NATIONAL CITY

GENERAL NOTES

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DET DAT DAT DAT DAT DAT DAT DAT APPROVAL OF THESE PLANS BY THE CITY ENGINEER OF THE CITY OF NATIONAL CITY DOES NOT CONSTITUTE CERTIFICATION OF THE PROJECT AS A WHOLE, IN TERMS OF COMPLETENESS, ACCURACY, DESIGN, AND CONSTRUCTION STANDARDS. APPROVED STANDARDS: PUBLIC WORKS SDRSD. IT IS THE RESPONSIBILITY OF THE ENGINEER-OF-WORK TO EXERCISE CONTROL OVER THE DESIGN OF THE PROJECT.

- 1. A PERMIT SHALL BE OBTAINED FROM THE ENGINEERING DEPARTMENT FOR ALL IMPROVEMENT WORK WITHIN THE PUBLIC RIGHT-OF-WAY AND ALL GRADING OPERATIONS ON PRIVATE PROPERTY.
- 2. APPROVAL OF THESE PLANS BY THE CITY OF NATIONAL CITY DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL A VALID PERMIT HAS BEEN ISSUED.
- 3. NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE GRADING ORDINANCE AND NOTWITHSTANDING THE APPROVAL OF THESE PLANS, THE CONTRACTOR IS RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO THE ADJACENT PROPERTY. NO PERSON SHALL EXCAVATE ON LAND SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING PUBLIC STREET, SIDEWALK, ALLEY OR ANY OTHER PUBLIC OR PRIVATE PROPERTY WITHOUT SUPPORTING AND PROTECTING SUCH PROPERTY FROM SETTLING, CRACKING, EROSION, SILTING, SCOUR OR THE DAMAGE WHICH MIGHT RESULT FROM THE GRADING DESCRIBED ON THESE PLANS.
- 4. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK, NOTICE OF PROPOSED WORK SHALL BE GIVEN TO THE FOLLOWING AGENCIES:

UNDERGROUND SERVICE ALERT	1-800-227-260
AT&T	(858) 268-2062
CITY OF NATIONAL CITY PUBLIC WORKS DEPARTMENT	(619) 336-4380
COX COMMUNICATIONS	(619) 266-5038
CROWN CASTLE	(760) 224-5264
SAN DIEGO GAS AND ELECTRIC	(858) 547-2009
SWEETWATER AUTHORITY	(619) 409-6751
	UNDERGROUND SERVICE ALERT AT&T CITY OF NATIONAL CITY PUBLIC WORKS DEPARTMENT COX COMMUNICATIONS CROWN CASTLE SAN DIEGO GAS AND ELECTRIC SWEETWATER AUTHORITY

- 5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL SUBSTRUCTURES WHETHER SHOWN OR NOT AND PROTECT THEM FROM DAMAGE. THE EXPENSE OF REPAIR OR REPLACEMENT OF SAID SUBSTRUCTURES SHALL BE BORN BY THE CONTRACTOR.
- 6. THE ENGINEER-OF-WORK SHALL BE NOTIFIED WHEN CONSTRUCTION COMMENCES AND ANY CHANGES OR ADDITIONS ARE MADE DURING THE PROGRESS OF CONSTRUCTION. A REPORT CONFIRMING THIS, SIGNED BY THE REGISTERED SOILS ENGINEER, SHALL BE SUBMITTED TO THE CITY'S ENGINEERING DEPARTMENT AT THE COMPLETION OF THE PROJECT SPECIFICS.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ENGINEER OF RECORD PRIOR TO COMMENCING DEMOLITION OF ANY MONUMENTATION AND/OR BENCHMARKS, OF ALLOWING ENGINEER'S SURVEYOR OF LOCATING MONUMENTATION AND/OR BENCHMARKS PRIOR TO DEMOLITION, AND OF NOTIFYING ENGINEER AFTER CONSTRUCTION IS COMPLETE. MONUMENTATION SHALL BE OFF-SET. PROTECT AND REPLACE IF DISTURBED.
- 8. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS: AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE CITY ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- 9. CONTRACTOR WILL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
- 10. LOCATION AND ELEVATION OF IMPROVEMENTS OF WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENT PRIOR TO CONSTRUCTION OF NEW WORK.
- 11. BEFORE EXCAVATING, VERIFY LOCATION OF UNDERGROUND UTILITIES. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWING LOCATION OF UTILITIES WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO OTHER EXISTING UTILITIES EXCEPT AS SHOWN ON THE PLANS.
- 12. NEITHER THE OWNER NOR THE CITY ENGINEER-OF-WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
- 13. <u>INSPECTION NOTES</u>: NO WORK SHALL BE COMMENCED ON THE SITE PRIOR TO A PRE-CONSTRUCTION MEETING WITH THE ENGINEERING DEPARTMENT. CALL THE CITY CONSTRUCTION ENGINEER AT (619) 336-4380 TO SCHEDULE A MEETING.
- 14. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE, OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT, CONSTRUCTION EQUIPMENT, AND ANY OTHER ASSOCIATED EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 8:00 A.M. AND 4:00 P.M. EACH DAY, MONDAY THROUGH FRIDAY. UNLESS OTHERWISE NOTED, PRIOR APPROVAL OF THE CITY ENGINEER WILL BE REQUIRED FOR WORK BEFORE 8:00 A.M. AND AFTER 4:00 P.M.
- 15. STRUCTURAL SECTIONS OF THE STREET IMPROVEMENTS SHALL BE PER PLAN, BUT NOT LESS THAN THE MINIMUM REQUIREMENTS PER NATIONAL CITY STANDARD DRAWING NO. 113-S-B.
- 16. THE ASPHALT CONCRETE PAVEMENT SHALL BE INSTALLED IN A MINIMUM OF TWO LIFTS. THE FINAL LIFT SHALL BE AT LEAST 2 INCHES THICK AND SHALL BE PAVED AFTER COMPLETION OF ALL STRUCTURES.
- 17. CHANGE ORDER: CHANGE ORDERS SHALL BE REQUESTED IN WRITING USING THE CITY OF NATIONAL CITY STANDARD FORM AND ATTACHED WITH PLANS SHOWING IN RED THE REVISIONS FOR APPROVAL.
- 18. PUBLIC WATER SYSTEM IMPROVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH SWEETWATER AUTHORITY'S DESIGN STANDARDS AND STANDARD SPECIFICATIONS FOR CONSTRUCTION OF WATER FACILITIES. PUBLIC WATER SYSTEM SHALL BE MAINTAINED AND OPERATED BY SWEETWATER AUTHORITY.

EARTHWORK QUANTITIES

CUT:	125	CU. YD(S)	IMPORT:	75	CU. YD(S
FILL:	200	CU . YD(S)	EXPORT:	0	CU. YD(S,

UTILITY NOTES

- 1. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS WAS DETERMINED FROM A SEARCH OF AVAILABLE PUBLIC RECORDS. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE POSSIBLE EXISTENCE OF UNDERGROUND FACILITIES NOT SHOWN OR IN A LOCATION DIFFERENT FROM THAT SHOWN ON THE PLANS. THE CONTRACTOR SHALL DETERMINE THE LOCATION AND DEPTH OF ALL UTILITIES, INCLUDING SERVICE CONNECTIONS, THAT MAY AFFECT OR BE AFFECTED BY HIS OPERATIONS AND SHALL TAKE ADEQUATE MEASURES TO PROTECT THE UNDERGROUND UTILITIES SHOWN ON THE PLANS AND THOSE FACILITIES ENCOUNTERED DURING CONSTRUCTION BUT NOT SHOWN ON THE PLANS.
- 2. PURSUANT TO STATE LAW, CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600 NOT LESS THAN TWO (2) WORKING DAYS PRIOR TO CONDUCTING ANY EXCAVATION WORK ON THIS PROJECT. THIS REQUIREMENT SHALL EXTEND TO EXCAVATION WORK CONDUCTED WITHIN PUBLIC RIGHT-OF-WAY AND TO EXCAVATION WORK CONDUCTED ON PRIVATE PROPERTY. THE CONTRACTOR SHALL MARK OUT THE APPROXIMATE LIMITS OF THE PROPOSED EXCAVATION PRIOR TO CALLING USA TO ASSIST THE EXISTING UTILITY OWNERS IN UNDERSTANDING THE LIMITS OF THE REQUIRED PREMARK SERVICES.
- 3. EXISTING UTILITIES IN CONFLICT WITH THE PROPOSED WORK SHALL BE REMOVED, RELOCATED, OR ADJUSTED BY THEIR RESPECTIVE OWNERS UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR IS REFERRED TO SECTION 4 OF THE STANDARD SPECIFICATIONS.
- 4. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (BELOW GROUND AND ABOVE GROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT THE REVISION OF THE CONSTRUCTION PLANS IF IT IS FOUND THAT ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
- 5. THE CONTRACTOR SHALL MAINTAIN THE SERVICE OF ALL EXISTING WATER AND SEWER UTILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING WATER AND SEWER MAINS DURING CONSTRUCTION, AND SHALL HAVE SUFFICIENT PIPELINE MATERIALS AND EQUIPMENT ONSITE TO IMMEDIATELY REPAIR ANY DAMAGE TO EXISTING MAINS. CONTRACTOR IS RESPONSIBLE TO REPLACE OR REPAIR ANY DAMAGE, PRIVATE OR PUBLIC
- 6. BEFORE EXCAVATING, THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES BY CONTACTING EACH OF THE FOLLOWING, 48 HOURS PRIOR TO COMMENCING WORK:

UNDERGROUND SERVICE ALERT	1-800-227-2600
CABLE TELEVISION: (COX COMMUNICATIONS)	(619) 266-5038
FIBER OPTICS: (CROWN CASTLE)	(760) 224-5264
GAS & ELECTRIC: (SDG&E)	(858) 547-2009
SEWER, STORM, STREET LIGHT, & TRAFFIC SIGNAL: (CITY OF NATIONAL CITY)	(619) 336-4380
TELEPHONE: (AT&T)	(858) 268-2062
WATER: (SWEETWATER AUTHORITY)	(619) 409-6751

ASPHALT CONCRETE, PORTLAND CEMENT CONCRETE, TRENCH BACKFILL & COMPACTION

- 1. EXISTING PAVEMENT WILL BE SAWCUT AT ALL LOCATIONS THAT JOIN WITH PROPOSED IMPROVEMENTS.
- 2. ASPHALT CONCRETE SECTIONS GREATER THAN 3" SHALL BE LAID IN TWO LIFTS MINIMUM AND SHALL BE COMPRISED OF AN AC BASE AND A SURFACE COURSE. AC FOR THE BASE COURSE SHALL BE CLASS B-PG 64-10 (3/4"). AC FOR THE SURFACE COURSE SHALL BE CLASS C2-PG 64-10 (1/2"). SURFACE COURSE SHALL BE 2" THICK MINIMUM.
- 3. STRUCTURAL SECTIONS OF THE STREET IMPROVEMENTS SHALL BE PER PLAN, BUT NOT LESS THAN THE MINIMUM REQUIREMENTS PER NATIONAL CITY STANDARD DRAWING NO. 113-S-B.
- 4. THE UPPER 6" OF THE TRENCH OR PAVEMENT SECTION MEASURED FROM THE BOTTOM OF THE BASE COURSE SHALL BE COMPACTED TO A RELATIVE COMPACTION OF 95 PERCENT OF MAXIMUM DRY DENSITY.

SHEET LIST TABLE					
Sheet Number	Sheet Title				
1	TITLE SHEET				
2	NOTES				
3	SECTIONS AND KEY MAP				
4	PRECISE GRADING PLAN				
5	SECTIONS AND DETAILS				
6	EROSION CONTROL PLAN				

GRADING NOTES

DUMPING AND STOCKPILING IS PROHIBITED IN NATIONAL CITY. ALL MATERIAL EXCAVATED AND REMOVED FROM THE SITE. NO EXCEPTIONS. 1. ALL GRADING, TESTING AND OBSERVATION SHALL BE DONE IN ACCORDANCE WITH APPENDIX "J" OF

- THE CALIFORNIA BUILDING CODE AND CHAPTER 15.70 OF THE NATIONAL CITY2.THE STANDARD TEST USED TO DEFINE THE MAXIMUM DENSITY OF ALL COMPACTIO
- PER ASTM D-1557-91 PER SPECIFICATION 301-1.3. ALL DENSITIES SHALL BE EX RELATIVE COMPACTION IN THE FOREGOING STANDARD PROCEDURE.
- 3. <u>CLEARING, GRUBBING, AND PREPARING AREAS TO BE FILLED</u> 3.1 ANY TREES NOT UTILIZED IN LANDSCAPING, ABANDONED STRUCTURES, WEEL AND ANY OTHER RUBBISH SHALL BE REMOVED, FILLED OR OTHERWISE DISPO LEAVE THE AREAS THAT HAVE BEEN DISTURBED WITH A NEAT AND FINISHED / FREE FROM UNSIGHTLY DEBRIS.
- 3.2 ALL VEGETABLE MATTER AND SOIL DESIGNATED AS UNSUITABLE BY THE SOIL SHALL BE REMOVED UNDER THE DIRECTION OF THE SOILS ENGINEER. ALL EX SHALL BE PLOWED OR SCARIFIED TO A DEPTH OF AT LEAST EIGHT INCHES, UN IS FREE FROM RUTS, HUMMOCKS, OR THE UNEVEN FEATURES WHICH WOULD PREVENT UNIFORM COMPACTION BY THE EQUIPMENT TO BE USED.
- 3.3 WHERE FILL IS TO BE PLACED, CARE SHOULD BE TAKEN THAT ANY EXISTING SOILS BE REMOVED AND THAT NATURAL GROUND SHALL BE SCARIFIED AT LE AND COMPACTED AT LEAST 90% OF MAXIMUM DENSITY. FILL SOILS SHOULD LEAST 90%. PAVEMENT BASE COURSE MATERIAL SHOULD BE COMPACTED AT
- MATERIALS
- 4. THE MATERIALS FOR THE FILL SHALL BE APPROVED BY THE SOILS ENGINEER BEFC COMMENCEMENT OF GRADING OPERATIONS, OR THEIR IMPORT.
- 5. PLACING, SPREADING AND COMPACTION OF FILL MATERIAL
- 5.1 THE SELECTED FILL MATERIAL SHALL BE PLACED IN LAYERS WHICH WHEN CO ALLOW ADEQUATE BONDING AND COMPACTION.
- 5.2 WHEN MOISTURE CONTENT OF THE FILL MATERIAL IS BELOW THAT SPECIFIED ENGINEER, WATER SHALL BE ADDED UNTIL THE MOISTURE CONTENT IS AS SF ASSURE THOROUGH BONDING DURING THE COMPACTION PROCESS. WHE CONTENT OF THE FILL MATERIAL IS ABOVE THAT SPECIFIED BY THE SOILS EN MATERIAL SHALL BE AERATED BY BLADING OR OTHER SATISFACTORY METHO MOISTURE CONTENT IS AS SPECIFIED.
- 5.3 AFTER EACH LAYER HAS BEEN PLACED, MIXED, AND SPREAD EVENLY, IT SHAL THOROUGHLY COMPACTED TO A RELATIVE COMPACTION OF NOT LESS THAN 90%. 5.4 FIELD DENSITY TEST SHALL BE MADE BY THE SOILS ENGINEER. WHERE SHEEF ARE USED, THE SOIL MAY BE DISTURBED TO A DEPTH OF SEVERAL INCHES. DENSIT TAKEN IN COMPACTED MATERIAL BELOW THE DISTURBED SURFACE. WHEN THESE THAT THE DENSITY OF ANY LAYER OF FILL OR PORTION THEREOF IS BELOW THE RE DENSITY, THE PARTICULAR LAYER OR PORTION SHALL BE REWORKED UNTIL THE R HAS BEEN OBTAINED.
- 5.5 EXPANSIVE SOIL ENCOUNTERED IN CUT AREAS SHALL BE REMOVED AND DISF UNCLASSIFIED FILL SHALL BE USED TO REPLACE ANY EXPANSIVE SOILS, AND SHAL TO MINIMUM 90%.
- 6. DISPOSAL OF OVERSIZE ROCKS
- 6.1 OVERSIZE ROCK SHALL BE EXPORTED FROM THE SITE, USED FOR LANDSCAP PLACED IN DESIGNATED NON-STRUCTURAL FILL AREAS.
- 7. <u>ENGINEERING OBSERVATION</u> 7.1 FIELD OBSERVATION BY SOILS ENGINEER SHALL BE MADE DURING THE FILL A OPERATION SO THAT HE CAN EXPRESS HIS OPINION REGARDING THE CONFORM, ACCEPTED SPECIFICATIONS.
- 8. <u>SEASONAL LIMITS</u> 8.1 NO FILL SHALL BE PLACED, SPREAD, OR ROLLED WHILE IT IS IN AN UNSUITABL CONTENT. NOR DURING UNFAVORABLE WEATHER CONDITIONS. WHEN THE WORK BY HEAVY RAIN, OPERATIONS SHALL NOT BE RESUMED UNTIL FIELD TEST BY THE INDICATE THAT THE MOISTURE CONTENT AND DENSITY OF FILL ARE AS PREVIOUS.
- 9. <u>GRADING TOLERANCE</u> 9.1 THE ACCEPTABLE ACCURACY FOR VERTICAL AND HORIZONTAL COMPLIANCE ON THIS PLAN SHALL BE ACCORDING TO THE STANDARDS SPECIFICATIONS FOR PL CONSTRUCTION.

EMERGENCY EROSION CONTROL MEASURE

- 1. ALL BUILDING PADS TO BE DIKED AND THE DIKES TO BE MAINTAINED TO PREVENT W FROM FLOWING FROM THE PAD UNTIL THE STREET AND DRIVEWAYS ARE PAVED AI WATER CAN FLOW FROM THE PADS WITHOUT CAUSING EROSION, OR CONSTRUCT DRAINAGE FACILITIES TO THE SATISFACTION OF THE CITY ENGINEER THAT WILL AL WATER TO DRAIN FROM THE PAD WITHOUT CAUSING EROSION.
- 2. THE TOPS OF ALL SLOPES ARE TO BE DIKED OR TRENCHED TO PREVENT WATER FR FLOWING OVER THE CREST OF SLOPES.
- 3. AS SOON AS CUTS OR EMBANKMENTS ARE COMPLETED, BUT NOT LATER THAN NOVA I, ALL CUT AND FILL SLOPES SHALL BE STABILIZED WITH BONDED FIBER MATRIX (BFM AN EQUAL TREATMENT APPROVED BY THE CITY ENGINEER. BETWEEN NOVEMBER APRIL 30 APPROVED SLOPE PROTECTION MEASURES SHALL PROCEED IMMEDIATE BEHIND THE EXPOSURE OF CUT SLOPES AND/OR THE CREATION OF EMBANKMENT SLOPES.
- 4. CATCH BASINS, DESILTING BASINS AND STORM DRAIN SYSTEM SHALL BE INSTALLED THE SATISFACTION OF THE CITY OF NATIONAL CITY PUBLIC WORKS DEPARTMENT A ENGINEERING.
- 5. GRAVEL BAG CHECK DAMS SHALL BE PLACED IN A MANNER APPROVED BY THE CITY NATIONAL CITY PUBLIC WORKS DEPARTMENT AND ENGINEERING IN UNPAVED STREE WITH GRADIENTS IN EXCESS OF TWO PERCENT (2%) AND ON OR IN OTHER GR OR EXCAVATED AREAS OR AS REQUIRED BY THE CITY ENGINEER.
- 6. THE OWNER TO MAINTAIN THE PLANTING AND EROSION CONTROL MEASURES DESC. ABOVE UNTIL RELIEVED OF THE SAME BY THE CITY. THE OWNERS TO REMOVE ALLS INTERCEPTED BY THE USE OF GRAEL BAGS, CATCH BASINS AND DESILTING BASINS. KEEP THESE FACILITIES CLEAN AND FREE OF SILT AND SAND AS DIRECTED BY THE ENGINEER. THE OWNER SHALL REPAIR ANY ERODED SLOPES AS DIRECTED BY THE ENGINEER AND PUBLIC WORKS DEPARTMENT.

PLANS	REVIEWED	ΒY
TAMARA O PLAN CHE	'NEAL RCE# 69 CK ENGINEER	107
ENGINEERI CHARLES	NG DEPARTMENT NISSLEY	-

DATE

precise grading PLANS - CITY OF NATIONAL CITY - ORANGE STRFET RESIDENCE

GRADING NOTES (CONT'D)

10.1 NOTE TO CONTRACTOR: UPON COMPLETION OF WORK, CONTRACTOR SHALL DELIVER TO THE

CITY AN UD TO DATE SET OF (AS BUILT) BECORD DRAWINGS DEEDADED BY THE

10. RECORD DRAWING (AS-BUILT)

I APPENDIX "J" OF Y MUNICIPAL CODE.		ENGINEER-OF-WORK. SUCH DRAWINGS SHAL INK AND IN DETAIL ALL CONSTRUCTION CHAI	LE BLUEPRINT COPIES OF THE PLANS SHOWING IN RED NGES, ESPECIALLY DEPTHS OF CONDUIT. UTILITIES SHALL
ON WORK SHALL BE XPRESSED AS A		BE DIMENSIONED FROM THE CLOSEST PERM CHANGES TO THE ORIGINAL MYLARS ON FILE ENGINEER-OF-WORK SHALL ALSO PRO	ANENT STRUCTURE. ENGINEER-OF-WORK SHALL MAKE E WITH THE CITY ENGINEER'S OFFICE. VIDE SAID AS-BUILTS IN DIGITAL FORMAT (PDF FILE).
DS, TREE STUMPS OSED OF SO AS TO	11.	<u>OWNER:</u> THOMAS STRAFFORD INVESTMENTS 2801 B STREET, #70 SAN DIEGO, CA 92102	
LS ENGINEER	12.	CONTRACTOR TBD	
XPOSED SURFACES INTIL THE SURFACE D TEND TO	13.	<u>ACCESSORS PARCEL NUMBER</u> 561-160-16	
UNCOMPACTED EAST EIGHT INCHES BE COMPACTED AT T LEAST 95%.	14.	BENCHMARK CITY OF NATIONAL CITY VERTICAL CONTROL MONUMENT DESCRIPTION: BRASS PLUG/TOF LOCATION: NORTHEAST CORNER OF 16TH S ^T DATUM: MEAN SEA LEVEL (NGVD 29) ELEVATION: 100 80 EFET	. BENCHMARK ? OF CURB TREET AND EUCLID AVENUE
ORE	15.	LEGAL DESCRIPTION	
OMPACTED SHALL D BY THE SOILS		PARCEL 1 THE NORTHERLY 200.00 FEET OF THE EASTER E, IN BLOCK 5 OF LINCOLN ACRES ORCHARD OF SAN DIEGO, STATE OF CALIFORNIA, ACCO OF THE COUNTY RECORDER OF SAN DIEGO	RLY 108.50 FEET OF THE WESTERLY 221.50 FEET OF LOT SUBDIVISION, IN THE CITY OF NATIONAL CITY, COUNTY ORDING TO MAP THEREOF NO. 1785, FILED IN THE OFFICE COUNTY, MARCH 6, 1924
PECIFIED TO EN THE MOISTURE IGINEER, THE FILL DOS LINTIL THE		TOGETHER WITH THAT PORTION LYING WITH FEET OF THE NORTHERLY 25.00 FEET OF SAI	IIN THE EASTERLY 93.50 FEET OF THE WESTERLY 315.00 ID LOT E.
LL BE		<u>PARCEL 2</u> THE WESTERLY 15.00 FEET OF THE EASTERL PARCEL 3	LY 30.00 FEET OF LOT F.
PSFOOT ROLLERS TY TEST SHALL BE TEST INDICATE		AN EASEMENT AND RIGHT OF WAY FOR ROAL AND OVER THE NORTHERLY 50.00 FEET LYIN 221.50 FEET OF LOT E.	D PURPOSES OVER THE EASTERLY 15.00 FEET OF LOT E, IG EASTERLY OF THE EASTERLY LINE OF THE WESTERLY
EQUIRED 90% REQUIRED DENSITY POSED OF OFFSITE.	16.	STANDARD DRAWINGS AND SPECIFICATIONS SAN DIEGO REGIONAL STANDARD DRAWING STANDARD DRAWINGS, AND THE STANDARD CURRENT EDITION, TOGETHER WITH THE LA	5 S (LATEST EDITION) AND CITY OF NATIONAL CITY SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION, TEST REGIONAL SUPPLEMENTAL AMENDMENTS.
	17.	SOILS REPORT	
ING PURPOSES, OR		BY: <u>ADVANCED GEOTECHNICAL SOLUTI</u> NO: <u>1706-05-B-2</u> DATE: <u>AUGUST 10,2017</u> PHONE NO.: <u>(619) 867-0487</u> EMAIL : PAULD@ADV-GEOSOLUTIONS COM	I <u>ONS, INC.</u> AGS, INC. 485 CORPORATE DRIVE, SUITE B ESCONDIDO, CA 92029
AND COMPACTION ANCE OF THE		THESE PLANS HAVE BEEN REVIEWED BY THE WITH THE RECOMMENDATIONS AND SPECIFIC FOR THIS DEVELOPMENT.	 E UNDERSIGNED AND FOUND TO BE IN CONFORMANCE CATIONS OUTLINED IN THE SOILS REPORT PREPARED
LE HIGH MOISTURE IS INTERRUPTED SOILS ENGINEER LY SPECIFIED.	18	BY: PAUL J. DERISI REFERENCE DRAWINGS	DATE:
WITH THE DESIGN	10.	SWEETWATER AUTHORITY WATER MAIN REF	PACEMENT E16TH STREET TO EUCLID AVE. WORK ORDER
	19.	AFTER COMPLETION OF GRADING, THE FOLL ENGINEER-OF-WORK: ``I HEREBY CERTI	OWING STATEMENT SHALL BE EXECUTED BY THE IFY THAT THE GRADING HAS BEEN DONE ACCORDING TO
		THE SOILS REPORT LISTED IN THEM 17." BY:	
ND		DATE:	
LLOW			SEAL:
ROM IEMBER	20.	AFTER THE COMPLETION OF THE PROJECT, T THE ENGINEER-OF-WORK: "I HEREBY CERTIF BUSINESS AND PROFESSIONS CODE, THAT AN THROUGHMARKED "AS WITH LINES AND GRADES, AND DETAILS AND REFERENCE DRAMINGS	THE FOLLOWING STATEMENT SHALL BE EXECUTED BY TY, IN ACCORDANCE WITH SECTION 6703 OF THE LL OF THE WORK SHOWN ON DRAWINGS BUILT" HAS BEEN CONSTRUCTED IN CONFORMANCE SPECIFICATIONS, AS SHOWN ON SAID PLANS AND
M) OR I AND			
ELY		ВҮ: DATE:	
D TO ND			SEAL:
(OF			PASCO I ARFT SUITER
ETS RADED			San Diego Solana Beach Orange County
CRIBED SOIL AND			Phone 858.259.8212 www.plsaengineering.com
CITY E CITY		ION OF RESPONSIBLE CHARGE	
	FOR THEREBY DEC FOR THIS PRO CHARGE OVER IN SECTION 67 CODE, AND TH CURRENT STAN	LARE THAT I AM THE ENGINEER OF WORK JJECT, THAT I HAVE EXERCISED RESPONSIBLE THE DESIGN OF THIS PROJECT AS DEFINED 703 OF THE BUSINESS AND PROFESSIONAL 1AT THE DESIGN IS CONSISTENT WITH NDARDS.	NALED NALEGENY 1887
	I UNDERSTAND DRAWINGS AND CITY IS CONFII RELIEVE ME AS	IHAI IHE CHECK OF THESE PROJECT) SPECIFICATIONS BY THE CITY OF NATIONAL NED TO A REVIEW ONLY AND DOES NOT S ENGINEER OF WORK OF MY	PLANS FOR THE IMPROVEMENTS OF:
1:	RESPONSIBILITI	ES FOR THE PROJECT DESIGN.	IOZO UKANGE SIKEEI Title sheet
	(WILLIAM G MA	ACK, PE 73620) DATE	CITY OF NATIONAL CITY
DATE		ED AM GREGG H	
		S A	ROBERT YANO RCE# 56292

No. 73620

Exp. 12/31/22

DIRECTOR OF PUBLIC WORKS/CITY ENGINEER

SHEET ¹ OF 6 SHEETS

ROJ. #EG22-00249 NAD 83 HORIZ. DATUM

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	Ē		VEY IS AS EET AS	■ EROSION CONTROL NOTES	TEMF
	TROL CURB ET ANI		S SURV POCH, E STRE	1. IN CASE EMERGENCY WORK IS REQUIRED, CONTACT ANDREW THOMAS GREER AT (619) 202-7283.	PLANT
PING	TICAL CON E TOP OF 16TH STRE	100.80	S FOR THIS 2011.00 E OF ORANG	2. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.	ALL PERM REQUIRED A. HYDF 1. AL
LITAN MAF	AL CITY VER PLUG ON TH CORNER OF	ELEVATION:	OF BEARING 83, ZONE 6, CENTERLINE	3. EROSION CONTROL DEVICES SHOWN ON PLANS SHALL NOT BE MOVED OR MODIFIED WITHOUT APPROVAL OF THE ENGINEERING INSPECTOR OR CITY STORM WATER COMPLIANCE INSPECTOR. THE CONTRACTOR SHALL RESTORE ALL EROSION CONTROL DEVICES TO THE WORKING ORDER DURING AND AFTER EACH RUN-OFF PRODUCING RAINFALL.	2. AR
METROPOI	Y OF NATION IG A BRASS NORTHEAST	VD 29)	TROL: BASIS SYSTEM, CCS ALLY BY THE	4. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED AND MAINTAINED TO THE SATISFACTION OF THE CITY ENGINEER OR CITY STORM WATER COMPLIANCE INSPECTOR. MAINTENANCE SHALL INCLUDE REMOVAL OF SILT FROM BARRIERS AND SEDIMENTATION DEVICES, SEEDING OR MULCHING OF DAMAGED STABILIZED AREAS AND REPLACEMENT OR REPAIR OF WORN OR DAMAGED GEOTEXTILE FABRIC.	
RVEYOR:	CHMARK: CIT CHMARK BEIN TED AT THE	ID AVENUE JM: MSL (NG	ZONTAL CON CORDINATE RMINED LOC	5. ALL EROSION CONTROL DEVICES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE ENGINEERING CONSTRUCTION INSPECTOR OR CITY STORM WATER COMPLIANCE INSPECTOR.	B. HYDF 1. AL
SU	BENG	EUCI DATL	HORI CA C DETE	6. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THERE IS A FIFTY PERCENT (50%) CHANCE OF RAIN WITHIN A FORTY-EIGHT (48) HOUR PERIOD. SILT AND DEBRIS SHALL BE REMOVED AFTER EACH RAINFALL.	2. AF
				7. DURING THE RAINY SEASON THE AMOUNT OF EXPOSED SOIL ALLOWED AT ONE TIME SHALL NOT EXCEED THAT WHICH CAN BE ADEQUATELY PROTECTED IN THE EVENT OF A RAINSTORM. ADDITIONAL SUPPLIES NEEDED FOR BMP MEASURES SHALL BE RETAINED ON THE JOB SITE IN A MANNER THAT ALLOWS FULL DEPLOYMENT AND COMPLETE INSTALLATION IN FORTY EIGHT (48) HOURS OR LESS OF A FORECASTED RAIN.	EN EL 3. IRI
RDS				8. ALL BARE SLOPES AND DISTURBED AREAS SHALL BE PLANTED AS EACH STAGE OF GRADING IS COMPLETE. SUITABLE MEASURES TO PREVENT SLOPE EROSION, INCLUDING, BUT NOT LIMITED TO, RAPID GROWING VEGETATION SUFFICIENT TO STABILIZE THE SOILS SHOULD BE INSTALLED ON ALL AREAS, AND/OR SUCH AREAS SHOULD BE MULCHED, WHILE THE PERMANENT VEGETATION COVER MATURES ENOUGH TO PROVIDE STABILITY.	НҮ 4. СС
I RECO				9. ANY EXPOSED SOIL, INCLUDING SOIL STOCKPILES, THAT WILL NOT BE DISTURBED FOR FOURTEEN (14) DAYS OR MORE SHALL BE FULLY PROTECTED FROM EROSION UNTIL ADEQUATE LONG-TERM PROTECTIONS ARE INSTALLED. ALL EROSION CONTROL MEASURES SHALL REMAIN INSTALLED AND MAINTAINED DURING ANY INACTIVE PERIOD.	
CTION				10. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.	
CONSTRU	ED:		ETED:	11. PROVIDE VELOCITY CHECK DAMS IN ALL UNPAVED GRADED CHANNELS AND ALONG THE GUTTER OF PAVED STREET AREAS. VELOCITY CHECK DAMS MAY BE CONTRUCTED OF GRAVEL BAGS, TIMBER, OR OTHER MATERIAL APPROVED BY THE CITY ENGINEER. VELOCITY CHECK DAMS MAY ALSO SERVE AS SEDIMENT TRAPS. CHECK DAMS WILL BE INSTALLED PER THE FOLLOWING:	С. НҮДК 1. НҮ
	ATE START	ISPECTOR.	ATE COMPL	GRADE OF THE CHANNEL / STREET: LESS THAN 3% 100 FEET 3% TO 6% 50 FEET OVER 6% 25 FEET	
Z			:	12. PROVIDE GRAVEL BAG, SILT BASIN, OR TRAP OR OTHER APPROVED DEVICE BY EVERY STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM. CHECK DAMS SHALL BE INSTALLED IN THE STREET GUTTER UPSTREAM OF CURB INLETS IN ACCORDANCE TO THE SPACING PROVIDED ABOVE, AT MINIMUM.	** 2. AL DE
RECOF	PANY			13. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY.	MA TH SE
ЧО	AGS COM			14. ALL GRAVEL BAGS SHALL BE BURLAP TYPE WITH 0.5 TO 1 INCH CRUSHED ROCK.	AT 3. CC
NICAL	N		ШШ	15. CONSTRUCTION DEBRIS AND SEDIMENT ON THE STREET AND GUTTER SHALL BE SWEPT OR VACUUMED AND DISPOSED OF PROPERLY AT CLOSE OF BUSINESS EACH DAY. FREQUENCY SHALL BE INCREASED IF DEBRIS AND SEDIMENT ARE NOTICEABLE WITHIN THE TRAVELLED WAY.	AG 4 TH
DTECH	J. DERI		GNATUI	16. TRASH AND CONSTRUCTION RELATED SOLID WASTES SHALL BE DEPOSITED INTO A COVERED RECEPTACLE OR COVERED AND CONTAINED TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.	MA 5 TH
GE(PAUL . NAME		<u>ت</u>	5 17. CONSTRUCTION MATERIALS SHALL BE STORED IN STAGING AREAS ON-SITE UNTIL NEEDED FOR INSTALLATION. WASTE WILL EITHER BE PLACED IN DUMPSTERS OR IN WASTE MANAGEMENT AREAS. ALL WASTE SHALL BE TRANSPORTED OFF-SITE IN A TIMELY MANNER TO APPROVED WASTE DISPOSAL AREAS (DUMPS). STORAGE, HANDLING AND TRANSPORTATION OF WASTE SHALL BE IN ACCORDANCE WITH ALL FEDERAL. STATE. AND LOCAL	
YOR				LAWS. 18 CONSTRUCTION MATERIAL SHALL BE STORED IN DESIGNATED AREA WITH APPROPRIATE CONTAINMENT	
I SURVE	COMPANY			MEASURES. WASTE PILES THAT ARE NOT IN USE AND INACTIVE STOCKPILES SHALL BE PROTECTED. THE CONTRACTOR SHALL STORE THE MATERIALS AS TO MINIMIZE THE RISK OF STORM WATER POLLUTION, GROUND WATER POLLUTION, SOIL CONTAMINATION, AND INJURY TO WORKERS AND VISITORS.	SWEET STANDA OF BOT
CTION			Ц Ц	19. EQUIPMENT TO BE STORED, FUELED AND MAINTAINED ON SITE SHALL BE KEPT AWAY FROM ANY DRAINAGE COURSES. CONTRACTOR SHALL USE A DRAINAGE PAN OR DROP CLOTH TO CATCH ANY LEAKS OR SPILLS AT A MINIMUM.	2. SWEET PLANS.
ISTRU			NATUR	20. MATERIAL OR DEBRIS RESULTING FROM CONSTRUCTION ACTIVITIES (I.E. SAW CUTTING, CONCRETE/ASPHALT GRINDING, ETC.) SHALL BE RECLAIMED AND DISPOSED OF APPROPRIATELY.	3. SWEET
CON	NAME			21. THE TOPS OF ALL SLOPES SHALL BE DIKED OR TRENCHED TO PREVENT WATER FROM FLOWING OVER THE CREST OF SLOPES	4. SWEET DRAWIN
					5. APPRO MATER
	OVED DAT			SILIATION AND SEDIMENT CONTROL NOTES: **SEE SHEET 5 FOR SILTATION AND SEDIMENT CONTROL NOTES**	6. WET TA SWEET WATER PLACIN
	APPR				7. SWEET
	BY				SHOWN 8. WATER
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ENGINEE	AS-BUILT	REVISIONS		DIAL BEFORE YOU DIG TOLL EDEE	13. ALLADJ VALVE A
				I ULL FREE 1-800-227-2600 A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT	

EMPORARY EROSION CONTROL

ANTING AND IRRIGATION NOTES:

PERMANENT AND TEMPORARY EROSION CONTROL PLANTING SHALL BE INSTALLED AND MAINTAINED AS UIRED IN SECTION 212 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

HYDROSEEDING SHALL BE APPLIED TO:

- ALL SLOPES THAT ARE GRADED 6:1 (HORIZONTAL TO VERTICAL) OR STEEPER WHEN THEY ARE:
 a. THREE (3) FEET OR MORE IN HEIGHT AND ADJACENT TO A PUBLIC WALL OR STREET.
 b. ALL SLOPES FOUR (4) FEET OR MORE IN HEIGHT.
- 2. AREAS GRADED LESS THAN 6:1 WHEN ANY OF THE FOLLOWING CONDITIONS EXIST:
- a. NOT SCHEDULED FOR IMPROVEMENTS (CONSTRUCTION OR GENERAL LANDSCAPING) WITHIN SIXTY (60) DAYS OF ROUGH GRADING.
- b. IDENTIFIED BY THE CITY AS HIGHLY VISIBLE TO THE PUBLIC.
 c. HAVE ANY SPECIAL CONDITION IDENTIFIED BY THE CITY ENGINEER THAT WARANTS IMMEDIATE TREATMENT.

HYDROSEEDED AREAS SHALL BE IRRIGATED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:

- 1. ALL SLOPES THAT ARE GRADED 6: 1 OR STEEPER AND THAT ARE: a. THREE (3) TO EIGHT (8) FEET IN HEIGHT SHALL BE IRRIGATED BY HAND WATERING FROM QUICK COUPLERS/HOSE BIBS OR A CONVENTIONAL SYSTEM OF LOW PRECIPITATION SPRINKLER HEADS
 - PROVIDING ONE HUNDRED PERCENT (100%) COVERAGE.
 b. GREATER THAN EIGHT (8) FEET IN HEIGHT SHALL BE WATERED BY A CONVENTIONAL SYSTEM OF LOW PRECIPITATION SPRINKLER HEADS PROVIDING ONE HUNDRED PERCENT (100%) COVERAGE.

2. AREAS SLOPED LESS THAN 6:1 SHALL BE IRRIGATED AS APPROVED BY THE CITY ENGINEER. PRIOR TO HYDROSEEDING THE DEVELOPER SHALL SUBMIT A PROPOSED SCHEME TO PROVIDE IRRIGATION TO THE CITY ENGINEER. THE PROPOSAL SHALL BE SPECIFIC REGARDING THE NUMBERS, TYPES, AND COSTS OF THE ELEMENTS OF THE PROPOSED SYSTEM.

3. IRRIGATION SHALL MAINTAIN THE MOISTURE LEVEL OF THE SOIL AT THE OPTIMUM LEVEL FOR GROWTH OF HYDROSEEDED MIX.

4. CONDITIONING THE SOIL SO IT IS SUITABLE FOR PLANTING BY:

- a. ADJUSTING THE SURFACE SOIL MOISTURE TO PROVIDE DAMP BUT NOT SATURATED SEED BED
 b. THE ADDITION OF SOIL AMENDMENTS, PH ADJUSTMENT, LEACHING OR COVERING SALINE SOILS TO PROVIDE VALUABLE CONDITIONS FOR GROWTH.
- c. HYDROSEEDED AREAS SHALL BE MAINTAINED TO PROVIDE A VIGOROUS GROWTH UNTIL THE PROJECT IS PERMANENTLY LANDSCAPED OR, FOR AREAS
- WHERE HYDROSEEDING IS THE PERMANENT LANDSCAPING, UNTIL THE PROJECT IS COMPLETED AND ALL BONDS RELEASED.

HYDROSEED MIXTURES SHALL CONFORM TO THE FOLLOWING: 1. HYDROSEED MIXTURES SHALL BE DETERMINED BY EVALUATION OF THE SITE CONDITIONS WITH RESPECT TO:

- a. SOIL CONDITIONS
- b. SITE TOPOGRAPHY c. MAINTENANCE REQUIREMENTS
- d. SENSITIVE ADJACENT AREAS
- e. SEASON AND CLIMATE
- f. WATER AVAILABILITY
- g. VEGETATION TYPES h. PLANS FOR PEMANENT VEGETAION
- ** THE ENGINEER OF WORK SHALL APPROVE HYDROSEEDING SELECTION

2. ALL SEED MATERIALS SHALL BE IN CONFORMANCE WITH THE CALIFORNIA STATE SEED LAW OF THE DEPARTMENT OF AGRICULTURE. EACH SEED BAG SHALL BE DELIVERED TO THE SITE SEALED AND CLEARLY MARKED AS TO SPECIES, PURITY, PERCENT GERMINATION, DEALER'S GUARANTEE, AND DATES OF TESTS. THE CONTAINER SHALL BE MARKED AS TO THE PERCENT OF PURE LIVE SEED (PLS) CONTAINED. ALL LEGUME SEED SHALL BE PELLET-INOCULATED. INOCULANT SOURCE SHALL BE SPCIES SPECIFIC AND SHALL BE APPLIED AT A RATE OF 2 KG OF INOCULANT PER 100 KG OF SEED (2LB OF INUCLANT PER 100 LB OF SEED).

3. COMMERCIAL FERTILIZER SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA FOOD AND AGRICULURAL CODE. FERTILIZER SHALL BE PELLETED OR GRANULAR FORM.

4. THE CONTRACTOR SHALL MAKE FOLLOW-UP APPLICATIONS AS NEEDED TO COVER WEAK SPOTS, AND TO MAINTAIN ADEQUATE SOIL PROTECTION.

5. THE CONTRACTOR SHALL AVOID OVER-SPRAY ONTO THE TRAVEL WAYS, SIDEWALKS, LINED DRAINAGE CHANNELS AND EXISTING VEGETATION.

VEETWATER AUTHORITY GENERAL NOTES

THE WATER FACILITIES SHOWN ON THESE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SWEETWATER AUTHORITY STANDARD SPECIFICATIONS FOR CONSTRUCTION OF WATER FACILITIES AND STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), USING THE LATEST REVISIONS OF BOTH, EFFECTIVE AT THE TIME PLANS ARE SIGNED.

WEETWATER AUTHORITY STANDARD SPECIFICATIONS TAKE PRECEDENCE IN CASE OF CONFLICT WITH THESE

WEETWATER AUTHORITY SHALL DEPOSIT INSPECTION FEES PRIOR TO BEGINNING WORK ON THE PROJECT.

SWEETWATER AUTHORITY WILL SUPPLY ALL MATERIAL FOR WATER IMPROVEMENTS INCLUDING SHOP DRAWINGS WHERE APPROPRIATE.

APPROVED CONSTRUCTION MATERIALS ARE THOSE LISTED ON THE SWEETWATER AUTHORITY APPROVED MATERIALS LIST.

NET TAPS, IF REQUIRED, WILL BE ACCOMPLISHED BY SWEETWATER AUTHORITY FORCES FOLLOWING THE SWEETWATER AUTHORITY EXCAVATING, PLACING, TAPPING FITTINGS, HYDROTESTING WITH CHLORINATED WATER AND PUMPING TO 150 P.S.I. TO VERIFY THAT NO LEAKS OCCUR AROUND FLANGES, JOINTS OR WELDS, PLACING CONCRETE THRUST BLOCKS AND MAKING ALL PREPARATION AS REQUIRED BY THE ENGINEER. THE SWEETWATER AUTHORITY IS TO PROVIDE BACKFILLING AND PAVING PER SPECIFICATIONS.

WEETWATER AUTHORITY IS REQUIRED TO VERIFY LOCATION OF ALL EXISTING UTILITIES WHICH MAY NOT BE SHOWN ON THESE PLANS.

WATER SERVICES AND SEWER LATERALS TO HAVE 10 FOOT HORIZONTAL SEPARATION UNLESS APPROVED BY THE SWEETWATER AUTHORITY'S DIRECTOR OF ENGINEERING.

WEETWATER AUTHORITY SHALL NOTIFY ALL CONSUMERS OF CONSTRUCTION RELATED WATER SHUTDOWNS

CONCRETE THRUST BLOCKS SHALL BE INSTALLED ACCORDING TO SECTION 12-02 AND STANDARD DWG. NO. 11 DF SWEETWATER AUTHORITY STANDARD SPECIFICATIONS. THRUST BLOCKS FOR MAINS 12" AND LARGER ARE SHOWN ON THE PLANS.

LL PUBLIC IMPROVEMENTS TO BE REPLACED PER CITY OF NATIONAL CITY STANDARDS, THE SAN DIEGO EGIONAL STANDARD DRAWINGS, AND THE GREEN BOOK, USING THE LATEST REVISIONS OF BOTH, EFFECTIVE T THE TIME PLANS ARE SIGNED.

THE SWEETWATER AUTHORITY CANNOT GUARANTEE DRY SHUT DOWNS DURING CONNECTIONS AND/OR CUT

ALL ADJUSTED, RELOCATED, OR RENEWED WATER SERVICES SHALL BE INSTALLED WITH A CONSUMER BALL /ALVE AND METER BOX PER SWEETWATER STANDARD SPECIFICATION DRAWING No. 1, 2, AND 20.

SWEETWATER AUTHORITY GENERAL NOTES (CONT'D)

- 14. ALL CONNECTIONS TO EXISTING MAINS, FIRE HYDRANTS, FIRE SERVICES, AND NEW FIRE HYDRANT LATERALS, 12" AND SMALLER, SHALL BE CONSTRUCTED WITH P.V.C. PIPE, USING CLOSURE COUPLINGS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. NO SAW CUTTING OF A.C WILL BE ALLOWED. ONLY A.C. PIPE SNAPPING WITH APPROVED TOOLS IS ALLOWED.
- 15. NEW PIPELINE TRENCHES ARE TO BE BACKFILLED, RESURFACED AND STRUCTURALLY REPAIRED IN MODIFIED STD. DWG. G-24
- 16. BACKFILLING OF TRENCHES, STREET RESURFACING, STRIPING AND INSTALLATION OF PAVEMENT M/ INSTALLATION OF PUBLIC IMPROVEMENTS SHALL BE SUBJECT TO APPROVAL BY THE CITY OF NATIO
- 17. NO WORK SHALL COMMENCE ON THE SITE PRIOR TO A PRE-CONSTRUCTION MEETING WITH THE CIT SCHEDULE A MEETING.
- 18. CROSS GUTTERS SHALL BE REPLACED ACCORDING TO SAN DIEGO REGIONAL STANDARD DRAWING CONCRETE SHALL BE 8-INCHES THICK WITH 10-INCHES CLASS 2 AGGREGATE BASE, COMPACTED 959 WIRE MESH.
- 19. A PERMIT SHALL BE OBTAINED FROM THE CITY OF NATIONAL CITY ENGINEERING DEPARTMENT FOR RIGHT-OF-WAY. THE SWEETWATER AUTHORITY SHALL SUBMIT TO THE CITY NATIONAL CITY ENGINE SCHEDULE FOR ALL PHASES AND LOCATIONS OF THE PROJECT INCLUDING DATES, HOURS OF WORF OBTAINING PERMIT.
- 20. ALL OPERATIONS CONDUCTED ON THE CITY OF NATIONAL CITY RIGHT-OF-WAY, INCLUDING THE IDLI OF TRUCK EARTHMOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED E BETWEEN 7:00 A.M. AND 5:00 P.M. EACH DAY, MONDAY - FRIDAY. PRIOR APPROVAL OF THE CITY ENG 7:00AM AND AFTER 5:00PM.
- 21. SWEETWATER AUTHORITY SHALL MAKE EXPLORATORY EXCAVATIONS TO VERIFY EXISTING UTILITY CONSTRUCTION TO ALLOW TIME FOR REVISION REQUIRED BY EXISTING CONDITIONS.
- 22. SERVICE SADDLE AND DRY PACK OF PORTLAND CEMENT ARE REQUIRED ON ALL NEW SERVICE LAT AUTHORITY STANDARD DRAWING NO. 3.
- 23. SWEETWATER AUTHORITY SHALL REPLACE STREET PAVEMENT SURFACE WITH MATERIAL THAT CON INCLUDING CHIP SEALS.
- 24. IT SHALL BE THE RESPONSIBILITY OF THE SWEETWATER AUTHORITY TO LOCATE ALL SUBSTRUCTUR THEM FROM DAMAGE. THE EXPENSE OF REPAIR AND OR REPLACEMENT OF SAID SUBSTRUCTURES AUTHORITY.
- 25. ALL MECHANICAL JOINT SYSTEMS TO BE INSTALLED WITH "ROMAC GRIPRING"JOINT RESTRAINTS OF PRESSURE OF 350 P.S.I. FOR PIPE 16" AND SMALLER, AND 250 P.S.I. FOR PIPE GREATER THAN 16".
- 26. NEITHER THE OWNER, NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGUL CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE SOLELY RES AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
- 27. SWEETWATER AUTHORITY AGREES THAT THEY SHALL ASSUME SOLE AND COMPLETE RESPONSIBILI COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROTEC SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE S INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, R PERFORMANCE OF WORK ON THIS PROJECT.
- 28. ADEQUATE COMPACTION TESTING SHALL BE PERFORMED AND RESULTS SUBMITTED TO SWEETWA
- 29. DAMAGED TRAFFIC DETECTOR LOOPS MUST BE REPLACED PRIOR TO FINAL INSPECTION BY THE SV
- 30. ALL IMPROVEMENTS DAMAGED DURING CONSTRUCTION INCLUDING CURBS, GUTTERS, SIDEWALKS. CITY OF NATIONAL CITY STANDARDS.
- 31. ALL SIDEWALKS OR CROSS GUTTERS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPL BY CITY OF NATIONAL CITY SENIOR INSPECTOR.
- 32. PRIOR TO BEGINNING CONSTRUCTION ON THIS PROJECT, SWEETWATER AUTHORITY WILL SUBMIT / NATIONAL CITY ON A SEPARATE TRAFFIC CONTROL PLAN.
- 33. THE DISCHARGE OF NON STORMWATER POLLUTANTS TO THE STORMWATER CONVEYANCE SYSTEM BE PROTECTED USING THE STANDARDIZED BEST MANAGEMENT PRACTICES AND THE USE OF GRAV BARRICADES. THE SWEETWATER AUTHORITY SHALL BE REQUIRED TO CONSTRUCT, MONITOR, AND MANAGEMENT PRACTICES AT THE SITE.
- 34. ALL WATER DISCHARGES RESULTING FROM TESTING AND FLUSHING SHALL BE DECHLORINATED PR WATERCOURSE. ALL SAWCUT SLURRY SHALL BE REMOVED BY USE OF VACUUM.

TRAFFIC CONTROL / DETECTOR LOOPS NOTES

- 1. SWEETWATER AUTHORITY SHALL LEAVE NO OPEN TRENCHES AT NIGHT OR WEEKENDS, AND TRENCHE WITH STEEL PLATES AS DIRECTED BY ENGINEER AND THE CITY OF NATIONAL CITY.
- 2. NO STOCKPILES OF PIPE OR OTHER MATERIAL WILL BE ALLOWED IN TRAVELED RIGHT-OF-WAYS AT AN BY THE ENGINEER AND THE CITY OF NATIONAL CITY.
- 3. PROPERTIES ADJACENT TO THE WORK SITE SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF CLOSING O IN PUBLIC RIGHT-OF-WAY ADJACENT TO PROPERTIES. THE SWEETWATER AUTHORITY SHALL MAKE EVE PUBLIC PARKING OR DRIVEWAY AND ALLEY ACCESS TEMPORARILY ELIMINATED DUE TO CONSTRUCTIO
- 4. THE SWEETWATER AUTHORITY MUST SUBMIT FOR REVIEW AND APPROVAL BY THE CITY OF NATIONAL OUSED TO NOTIFY RESIDENCES OR BUSINESSES OF WORK TO BE DONE IN AREAS FRONTING THEIR PRO
- 5. SWEETWATER AUTHORITY SHALL BE RESPONSIBLE FOR CLEANING OF THE SITE DAILY ON A REGULAR CONTROL OF DUST, DIRT, AND DEBRIS.
- 6. TRAFFIC DETECTOR LOOPS SHALL CONFORM TO THE PROVISIONS OF SECTION 86-5, DETECTORS, OF 1 SPECIFICATIONS AND THESE SPECIAL PROVISIONS.
- 7. SWEETWATER AUTHORITY SHALL CORE DRILL A WOUND TRAFFIC SIGNAL LOOP USING A 6' DIAMETER C SEGMENTS, THE SLOTS SHALL BE VERTICAL AND 0.25" WIDE BY 3.0" DEEP. ANY OTHER METHOD SHALL I NATIONAL CITY'S APPROVAL
- 8. SAWCUT TO THE APPROPRIATE PULL BOX . SAWCUT TO BE 0.25" WIDE AND 3.0" DEEP MINIMUM. IN NO C THAN THE DEPTH OF PAVEMENT.
- 9. ALL CUTS SHALL BE WASHED CLEAN. WATER AND SLURRY SHALL BE VACUUMED OUT OR BLOWN OU' CLEAN AND DRY LOOP AREA.
- 10. ALL LEAD-INS SHALL ENTER THE HAND HOLES AND PULL LOOP AND SHALL BE NUMBERED AND IDENTIFIED.
- 11. A PREWOUND LOOP WIRE FOR ROUND LOOPS MADE OF DETECTA-DUCT TRAFFIC SIGNAL LOOP WIRE SHALL BE STACKED IN THE CUTS AND SECURED FROM FLOATING BY USE OF 5/8" BACKER ROD. ALL CUTS ARE TO BE SEALED WITH A SEALANT IN ACCORDANCE WITH THE STATE OF CALIFORNIA SPECIFICATION FOR HOT-MELT RUBBERIZED ASPHALT SEALANT 86-5.01a(5) "MAX SEAL3".
- 12. PREWOUND LOOPS SHALL CONSIST OF 3-6' DIAMETER TURNS OF DETECTA-DUCT LOOP WIRE, LAID 1 LOOP ON TOP OF THE OTHER AND SECURED SO EACH LOOP REMAINS IN PLACE. LOOP "TAILS" THAT RUN TO THE PULL BOX SHALL BE APPROXIMATELY 50'.
- TAMARA O'NEAL F PLAN CHECK ENG ENGINEERING DEF CHARLES NISSLET

PLANS R

D IN ACCORDANCE WITH THE CITY OF NATIONAL CITY T MARKERS (PER CALTRANS SPECS), AND ATIONAL CITY. CITY OF NATIONAL CITY. CALL 619-336-4380 TO NG G-12, WITH THE FOLLOWING EXCEPTIONS: 95%. CONCRETE SHALL BE REINFORCED WITH 6x6x1 TOR ALL IMPROVEMENT WORK WITHIN THE PUBLIC INEERING DEPARTMENT A PROPOSED PROJECT	EXISTING CONTOUR LINE EXISTING WATER MAIN (SIZE PER PLAI EXISTING SEWER MAIN (SIZE PER PLAI EXISTING GAS MAIN (SIZE PER PLAN) EXISTING OVERHEAD UTILITIES EXISTING FENCE	V) V)	47 W S	
T MARKERS (PER CALTRANS SPECS), AND ATIONAL CITY. CITY OF NATIONAL CITY. CALL 619-336-4380 TO NG G-12, WITH THE FOLLOWING EXCEPTIONS: 95%. CONCRETE SHALL BE REINFORCED WITH 6x6x1 OR ALL IMPROVEMENT WORK WITHIN THE PUBLIC INEERING DEPARTMENT A PROPOSED PROJECT	EXISTING WATER MAIN (SIZE PER PLAI EXISTING SEWER MAIN (SIZE PER PLAI EXISTING GAS MAIN (SIZE PER PLAN) EXISTING OVERHEAD UTILITIES EXISTING FENCE	v) V)	W S	
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CITY OF NATIONAL CITY. CALL 619-336-4380 TO NG G-12, WITH THE FOLLOWING EXCEPTIONS: 95%. CONCRETE SHALL BE REINFORCED WITH 6x6x1 OR ALL IMPROVEMENT WORK WITHIN THE PUBLIC INEERING DEPARTMENT A PROPOSED PROJECT	EXISTING OVERHEAD UTILITIES EXISTING FENCE		G	
NG G-12, WITH THE FOLLOWING EXCEPTIONS: 95%. CONCRETE SHALL BE REINFORCED WITH 6x6x1 OR ALL IMPROVEMENT WORK WITHIN THE PUBLIC INEERING DEPARTMENT A PROPOSED PROJECT			OE	 X
OR ALL IMPROVEMENT WORK WITHIN THE PUBLIC INEERING DEPARTMENT A PROPOSED PROJECT	PROPOSED IMPRO	VEMENTS		
INEERING DEPARTMENT A PROPOSED PROJECT	PROPERTY LINE			
UKK, AND PROPOSED STREET CLOSURES, PRIOR TO	RIGHT OF WAY			
	CENTERLINE OF ROAD			
IDLING, REPAIR, ARRIVAL, DEPARTURE, OR RUNNING ED EQUIPMENT SHALL BE LIMITED TO THE PERIOD	PROPOSED CONTOUR LINE		47	
NGINEER WILL BE REQUIRED FOR WORK BEFORE	DRAINAGE SWALE		· · · · · · · · _	 .
ITY LOCATIONS SUFFICIENTLY AHEAD OF	SAWCUT OF EXISTING AC PAVEMENT			
I ATERALS FOR P.V.C. PIPE SEE SWEETWATER	GRADE BREAK			
,, _,	PVC STORM DRAIN		====	= =
CONFORMS WITH THE ORIGINAL SURFACING,	12" x 12" PLASTIC SQUARE DRAINAGE	NDS		
TURES WHETHER SHOWN OR NOT AND PROTECT	BROOKS BOX (SIZE PER PLAN)	BROOKS OR EQUAL		
ES SHALL BE BORNE BY THE SWEETWATER	ROOF DRAIN		• •	
S OR EQUAL. THEY SHALL HAVE A RATED WORKING	CURB DRAINAGE OUTLET	SDRSD D-25	<u>d</u>	
и		CURB-O-I FT TCD-312	<u>н</u>	
GULATIONS, SWEETWATER AUTHORITY SHALL DESIGI RESPONSIBLE FOR CONFORMING TO LOCAL, STATE	N, PCC CURB (SIZE PER PLAN)	SDRSD G-01	¥	
	(SEE DETAIL 3 FOR MODIFIED DESIGN)			
BILITY FOR JOB SITE CONDITIONS DURING THE TECTION OF PROPERTY; THAT THIS REQUIREMENT	4" PCC PAVEMENT	SDRSD G-07		<u></u>
E SWEETWATER AUTHORITY SHALL DEFEND, Y, REAL OR ALLEGED, IN CONNECTION WITH THE	(PRIVATE PARKING LOT)			
	LANDSCAPED AREA BIOFII TRATION BASIN			
SWEETWATER AUTHORITY INSPECTOR	TRUNCATED DOMES	SDRSD G-30		
KS AND CROSS GUTTERS SHALL BE REPLACED TO	RETAINING WALL	SDRSD C-03		
	PROTECTION POST	SDRSD WM-04	0	
EPLACED FROM JOINT TO JOINT OR AS DETERMINED				
IIT AND OBTAIN APPROVAL FROM THE CITY OF	TU DIAMETER TREE	5DK3D L-01	12 - J	
	RIP-RAP ENERGY DISSIPATION		贲	
TEM IS PROHIBITED. ALL STORMDRAIN INLETS SHALL RAVEL BAGS AND/OR OTHER PROTECTIVE	PROPOSED FENCE		— x —	x
ND MAINTAIN ALL STORM WATER STANDARDIZED BES	ST PROPOSED 3" COPPER WATER SERVIC	E	@	• w <u>—</u>
PRIOR TO RELEASE IN ANY STORM DRAIN SYSTEM C	R PROPOSED 8" PVC FIRE SERVICE		ESRPDA F	• F
	PROPOSED 4" SEWER LATERAL		S → S → S →	- S
 CHES SHALL BE BACKFILLED OR COVERED	ABREVIATION LEGEND:			
ANY TIME, UNLESS OTHERWISE APPROVED	FL= FLOWLINE FS= FINISHED SURFACE FG= FINISHED GRADE			
G OF DRIVEWAYS, ALLEYS, OR EXCAVATIONS	ι ις= τορ ορ συκβ FF = FINISHED FLOOR TW=TOP OF ΜΔΙ Ι			
EVERY EFFORT TO MINIMIZE THE AMOUNT OF TION IN AREAS FRONTING THE PROPERTIES.	BW= BOTTOM OF WALL / TOP OF FOOTER IF= INVERT FI EVATION			
AL CITY ANY LETTER AND/OR DOOR NOTICES	TG= TOP OF GRATE (FG)= MATCH EX FINISHED GRADE			
AR BASIS AND PRIOR TO WEEKENDS FOR	(FS)= MATCH EX FINISHED SURFACE (TC)= MATCH EX TOP OF CURB	PAS	CO LARET	SUITER
OF THE CALTRANS STANDARD		San Diego Phone 858	5 Solana Beach 8.259.8212 www.p	& ASSOCIATES Orange County olsaengineering.com
R CORE BIT WITH DIAMOND IMPREGNATED				
ALL BE SUBMITTED FOR THE CITY OF	DECLARATION OF RESPONSIBLE CI	HARGE		
O CASE SHALL MINIMUM DEPTH BE GREATER	I HEREBY DECLARE THAT I AM THE ENGINEER OF FOR THIS PROJECT, THAT I HAVE EXERCISED RESP	WORK PONSIBLE	TOT STATE ON	AFFF
	CHARGE OVER THE DESIGN OF THIS PROJECT AS IN SECTION 6703 OF THE BUSINESS AND PROFES CODE, AND THAT THE DESIGN IS CONSISTENT WITH	DEFINED SIONAL H	113	State of the second sec
JT DRY WITH COMPRESSED AIR, LEAVING A	UNDERSTAND THAT THE CHECK OF THESE PROJE DRAWINGS AND SPECIFICATIONS BY THE CITY OF 1	ECT PLANS F	OR THE IMPROVEMENTS OF:	
	CITY IS CONFINED TO A REVIEW ONLY AND DOES RELIEVE ME AS ENGINEER OF WORK OF MY RESPONSIBILITIES FOR THE PROJECT DESIGN	NOT 16	528 ORAN	GE STREET
EVIEWED BY:			NO	TES
	(WILLIAM G MACK. PE 73620)	ATE	CITY OF NAT	IONAL CITY
AL RCE# 69107 DATE	PROFESSION		UTT UT NAT	
ENGINEER	AM GREGG THE FE			
	「 の. 73620 Fxp 12/31/22	ROBERT	YANO RCE# 56292 DR OF PUBLIC WORKS/C	DATE DATE
DEPARTMENT DATE SLEY	xx	PROJ	. #EG22-00249	NAD 83 HORIZ. DATUM
	OF CALIFORN	SHEET_	2_0F_6_SHEETS	11594- <i>0</i> 2-D
				_

LEGEND

STD.

SYMBOL

DESCRIPTION

CONSTRUCTION SURVEYOR GEOTECHNICAL OF RECORD CONSTRUCTION RECORDS SURVEYOR: METROPOLITAN MAPPING	PAUL J. DERISI AGS BENCHMARK: CITY OF NATIONAL CITY VERTICAL CONTROL INPROVED DATE DATE	INSPECTOR: INSPECTOR: DATUM: MSL (NGVD 29) ELEVATION: 100.80 INSPECTOR: INSPECTOR: DATUM: MSL (NGVD 29) ELEVATION: 100.80 INSPECTOR: INSPECTOR: INSPECTOR: INSPECTOR: INSPECTOR: INSPECTOR: INSPECTOR: INSPECTOR:		2.
CONSTRUCTION SURVEYOR	NAME COMPANY	SIGNATURE	TI TI KEY MAP SCALE: 1" = 20' HORIZONTAL	N 1
	BY APPROVED DATE		SEE SEPARATE PLANS FOR DETAILED DESIGN OF MANUFACTURED HOMES	
ENCINEEDING DED ADTMENT	AS-BUILT	REVISIONS	DICOPTENDER 1.5' FE = 141.45 9 CRAME SPACE FS + 139.45 - 3.0' FS + 139.45 - 100'	PRO

- EXISTING FENCE TO REMAIN

EXISTING CONC. PATIO EXISTING GRADE ĪFS = 138.81 PROP. 10" MODIFIED CURB PER SDRSD G-01 TO MITIGATE EXISTING VERTICAL CUT (2' +/-). SEE DETAIL 3 " WATER SERVICE

SECTION SCALE: NOT TO SCALE

SURVEYOR: METROPOLITAN MAPPING		BENCHMARK CITY OF NATIONAL CITY VEBTICAL CONTROL	BENCHMARN. UTT UT INATIONAL UTT VENTICAL CONTROL Renchmark being a rrans ditig on the tod of curr		Located at the northeast corner of 16th street and flictid avenif	DATUM: MSL (NGVD 29) ELEVATION: 100.80	HORIZONTAL CONTROL: BASIS OF BEARINGS FOR THIS SURVEY IS THE	DETERMINED LOCALLY BY THE CENTERLINE OF ORANGE STREET AS	SHOWN ON MAP NO. 8840 HAVING A BEARING N 18"59'30" W	
CONSTRUCTION RECORDS				UAIE SIAKIEU:		INSDECTOD.		DATE COMPLETED:		
R GEOTECHNICAL OF RECORD			PAUL J. DERISI AGS		NAME COMPANY			SIGNATURE		
CONSTRUCTION SURVEYOF					NAME COMPANY			SIGNATURE		
			αν Ιδρρεονέη Πλτε							
	ENGINEERING DEPARIMENI					REVISIONS				

SITE NOTES

- 1. EXISTING SURVEY MONUMENTS TO BE PROTECTED IN PLACE. IF MONUMENT IS DISTURBED OR DESTROYED, IT SHALL BE REPLACED BY A LICENSED LAND SURVEYOR AND A CORNER RECORD OF SURVEY SHALL BE FILED WITH THE COUNTY.
- 2. ALL UTILITIES SHOWN HEREON PER BEST AVAILABLE RECORD INFORMATION. CONTRACTOR SHALL VERIFY EXACT HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD OF DISCREPANCIES UPON DISCOVERY.
- 3. ALL EXISTING ONSITE STRUCTURES AND IMPROVEMENTS TO BE DEMOLISHED
- 4. ALL EXISTING ONSITE TREES AND VEGETATION TO BE REMOVED UNLESS OTHERWISE NOTED
- 5. NO GRADING SHALL OCCUR OUTSIDE THE LIMITS OF THE APPROVED GRADING PLAN UNLESS PRIOR WRITTEN AUTHORIZATION IS OBTAINED FROM THE CITY AND THE OWNERS OF OTHER AFFECTED PROPERTIES.
- 6. AC PAVEMENT SHALL BE 4" AC OVER 6" CLASS II AB MINIMUM OR PER GEOTECHNICAL RECOMMENDATIONS. AC SHALL BE PG64-10 HOT MIX.

CONSTRUCTION NOTES

- (1) 18"x4" RETAINING WALL OPENING FOR FLOW PATH WITH RIP RAP ENERGY DISSIPATION (SEE DETAIL 1
- (2) 12" WIDE CURB CUTS FOR FLOW PATH WITH RIP RAP ENERGY DISSIPATION
- (3) PROPOSED 4" MODIFIED CURB PER SDRSD G-01 (SEE DETAIL 3)
- (4) PROPOSED 6" CURB PER SDRSD G-01
- (5) PROPOSED 4" WHEEL STOP
- (6) TRANSITION WALKWAY TO MATCH RAISED CURB
- (7) PROPOSED TRUNCATED DOMES PER SDRSD G-30
- (8) LANDSCAPED MEDIAN
- (9) CURB-O-LET STRAIGHT ADAPTER (SEE DETAIL 4)
- (10) PROPOSED ROOF GUTTER DOWNSPOUT TO OUTLET AT GRADE (SEE DETAIL 2)
- (11) PROPOSED ROOF GUTTER DOWNSPOUT WITH DIRECT CONNECTION TO STORM DRAIN (SEE DETAIL 2)
- (12) PROPOSED PROTECTION POSTS PER SDRSD WM-04
- (13) PROPOSED 10" MODIFIED CURB PER SDRSD G-01 (SEE DETAIL 3)

(14) TRANSITION FROM 4" TO 6" CURB

CATCH BASIN DATA							
ITEM	SIZE	MODEL	TYPE	TOP OF GRATE INVERT ELEVATION	I.E. IN	I.E. OUT	
B1	12"x12"	NDS	SQUARE PLASTIC	134.00'	NA	133.53' ~ S1	
B2	12"x12"	NDS	SQUARE PLASTIC	136.15'	NA	135.38' ~ S2	
B3	12"x12"	NDS	SQUARE PLASTIC	136.54'	NA	135.24' ~ S3	
B4	12"x12"	NDS	SQUARE PLASTIC	137.71'	NA	135.60' ~ S4	
B5	12"x12"	NDS	SQUARE PLASTIC	138.91'	NA	135.90' ~ S5	
B6	12"x12"	NDS	SQUARE PLASTIC	137.39'	135.41' ~ S4/S5/S7	135.39' ~ S10	
B7	12"x12"	NDS	SQUARE PLASTIC	136.35'	135.17' ~ S9/S10	135.15' ~ S11	
<i>B8</i>	12"x12"	NDS	SQUARE PLASTIC	135.70'	134.92' ~ S11	134.90' ~ S12	
B9	12"x12"	NDS	SQUARE PLASTIC	134.23'	133.10' ~ S14	133.07' ~ S15	
B10	12"x12"	BROOKS	CONCRETE	132 04'	NA	126 54' ~ S16	

	STORM DRAIN DATA								
ITEM	TYPE	SIZE	COMMENTS	SLOPE (%)	LENGTH (FT)	I.E. UP	I.E. DOWN		
S1	PVC	3" DIAM	-	0.5%	11.2'	133.59'	133.53'		
S2	PVC	3" DIAM	-	1.0%	13.5'	135.38'	135.25'		
S3	PVC	3" DIAM	-	1.0%	16.3'	135.24'	135.08'		
S4	PVC	3" DIAM	-	1.0%	19.4'	135.60'	135.41'		
S5	PVC	3" DIAM	-	1.0%	48.5'	135.90'	135.41'		
S6	PVC	3" DIAM	-	1.0%	23.3'	135.75'	135.52'		
S 7	PVC	3" DIAM	-	1.0%	13.1'	135.52'	135.41'		
S8	PVC	3" DIAM	-	1.0%	21.9'	135.47'	135.25'		
S9	PVC	3" DIAM	-	1.0%	10.0'	135.25'	135.17'		
S10	PVC	6" DIAM	-	1.0%	22.3'	135.39'	135.17'		
S11	PVC	6" DIAM	-	1.0%	24.9'	135.15'	134.92'		
S12	PVC	6" DIAM	-	0.5%	7.6'	134.90'	134.86'		
S13	TCD-312	3" x 12"	CURB-O-LET OUTLET	0.7%	15.9'	134.86'	134.75'		
S14	PVC	4" DIAM	-	3.2%	59.8'	135.00'	133.10'		
S15	PVC	4" DIAM	-	3.2%	64.2'	133.10'	131.04'		
S16	PVC	6" DIAM	-	1.6%	165.2'	126.54'	123.83'		
S17	TCD-312	3" x 12"	CURB-O-LET OUTLET	2.1%	9.1'	123.83'	123.64'		

	CURB OUTLET DATA (PRIVATE)							
ITEM	TYPE	MODEL	OUTLET SIZE	Q100 (CFS)	V100 (FPS)	IE. OUT		
C1	CURB-O-LET	TCD-312	12" WIDTH x 3" HEIGHT	0.90	3.60	123.64'		
C2	SDRSD	D-27	3" DIAM	0.08	1.63	133.53'		
C3	CURB-O-LET	TCD-312	12" WIDTH x 3" HEIGHT	0.87	3.48	134.75'		
C4	SDRSD	D-27	3" DIAM	0.07	1.43	135.25'		

NOTE: SEE SEPARATE IMPROVEMENT PLAN FOR ALL WORK WITHIN THE UNNAMED PUBLIC RIGHT-OF-WAY. EASEMENT AND ORANGE STREET RIGHT-OF-WAY.

RETAINING WALL NOTE: TW AND BW AS SHOWN ON THIS SHEET DENOTES TOP OF WALL AND BOTTOM OF WALL / TOP OF FOOTER.

BLOCK 5 MAP 1785

131.04 FG

<u>132.83 TW</u>

(131.23 FG)

127.04 BW

SEE KEY MAP ON SHEET 3 FOR -

<u>132.83 TW</u>

(131.16 FG)

127.04 BW

LOCATION OF S17 AND CURB OUTLET C-1

12"X12" CATCH BASIN BY BROOKS -

PROP. PLANTER BOX WITH -

WALLS PER SDRSD C-03.

SEE SECTION E-E AND F-F

FOR WALL DETAILS

LOTF

PROPERTY LINE -

EMERGENCY BACKFLOW

PRODUCTS OR APPROVED DETAIL FOR

BMP #1 -A = 489 SF, FG = 131.04 BOTTOM OF BASIN = 127.04

REMOVE EXIST FENCE ~ PROP. FENCE ON WALL -

LOT D <u>132.83 TW</u> (130.55 FG) BLOCK 5 MAP 1785

PROP. PLANTER BOX WITH -WALLS PER SDRSD C-03. SEE SECTION E-E AND F-F FOR WALL DETAILS <u>132.83 TW</u> (130.21 FG) . 127.04 BW <u>132.83 TW</u> 121 04 EC

	131.04 FC
	132.83 TV
	131.04 FC
132.8	3 TW
(131.3	33 FS)
127.0	4 BW
131.	04 IE IN

TW ELEV. = 132.83

FL ELEV. = 132.50'

4" x 18" DRAINAGE

OPENING FOR BMP

OF EVERY PARKING

FS ELEV. =127.04

SPACE

LOCATED IN THE MIDDLE

	PRODUCT SPECIFICATION - STRAIGHT ADAPTER									
	PRO	DUCT LIS	Т			PROI	DUCT	DIME	NSION	IS
ROUND EQUIV.	DIMENSIONS	MODEL	ROUND TRANSVERSE AREA. (SQ. IN.)	A	В	C	D	Е	F	G
4"	3"x5"x9"	CP-SPA05	12.724	3.269"	5.269"	4.5"	10 GA.	5"	2"	3"
5"	3"x8"x11"	CP-SPA08	20.040	3.269"	8.269"	5.563"	10 GA.	8"	4"	3"
6"	3"x12"x13"	CP-SPA12	28.886	3.269"	12.269"	6.625"	10 GA.	12'	6"	3"
8"	4"x14"x15"	CP-SPA14	50.014	4.269"	14.269"	8.625"	10 GA.	14"	8"	4"
8"	3"x17"x15"	CP-SPA17	50.014	3.269"	17.269"	8.625"	10 GA.	17"	8"	3"
10"	3"x27"x17"	CP-SPA27	78.814	3.269"	27.269"	10.625"	10 GA.	27"	10"	3"
10"	4"x22"x17"	CP-SPA22	78.814	4.269"	22.269	10.625"	10 GA.	22"	10"	4"
MATER	IAL: 10 GAUG	E GALVANIZE	D A653 G90 MEETS AST	ГМ А-653	. TENSIL	E STREN	IGTH 50,0	000.0 YIE	LD 36,000).

	DECLARATION OF RESPONSIBLE CHARGE				
	I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THIS PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONAL CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.	NATE ONA EGAT Y Marine Marine CAR			
	I UNDERSTAND THAT THE CHECK OF THESE PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF NATIONAL CITY IS CONFINED TO A REVIEW ONLY AND DOES NOT	PLANS FOR THE IMPROVEMENTS OF:			
	RELIEVE ME AS ENGINEER OF WORK OF MY RESPONSIBILITIES FOR THE PROJECT DESIGN.	1628 ORANGE STREET			
IEWED BY:		SECTIONS AND DETAILS			
	(WILLIAM G MACK, PE 73620) DATE	CITY OF NATIONAL CITY			
RCE# 69107 DATE GINEER	ROFESSION THE				
PARTMENT DATE	Solution No. 73620 Exp. 12/31/22	ROBERT YANO RCE# 56292 DATE DIRECTOR OF PUBLIC WORKS/CITY ENGINEER			
Y	CIVIL SUIT	PROJ. #EG22-00249 NAD 83 HORIZ. DATUM			
	E OF ONLIFOR				

SILTATION AND SEDIMENT CONTROL NOTES

1. A SEDIMENT BASIN SHALL BE PROVIDED AT THE LOWER END OF EVERY DRAINAGE AREA PRODUCING SEDIMENT RUNOFF. THE BASIN SHALL BE MAINTAINED AND LEANED TO DESIGN CONTOURS AFTER EVERY RUNOFF PRODUCING RAINFALL. THE BASINS SHOULD BE SEMI PERMANENT STRUCTURES THAT WOULD REMAIN UNTIL SOIL STABILIZING VEGETATION HAS BECOME WELL ESTABLISHED ON ALL

2. SEDIMENTATION BASINS MAY NOT BE REMOVED OR MADE INOPERATIVE WITHOUT PRIOR APPROVAL OF THE CITY ENGINEER.

3. SEWER OR STORM DRAIN TRENCHES THAT ARE CUT THROUGH BASIN DIKES OR BASIN INLET DIKES SHALL BE PLUGGED WITH GRAVEL BAGS FROM TOP OF PIPE TO TOP OF DIKE.

4. ALL UTILITY TRENCHES SHALL BE BLOCKED AT THE PRESCRIBED INTERVALS WITH A DOUBLE ROW OF GRAVEL BAGS AT THE TOP OF THE TRENCH AND TWO (2) GRAVEL BAGS BELOW THE GRADED SURFACE OF THE STREET. GRAVEL BAGS ARE TO BE PLACED WITH LAP COURSES. THE INTERVALS PRESCRIBED BETWEEN GRAVEL BAG BLOCKING SHALL DEPEND ON THE SLOPE OF THE GROUND,

AS REQUIRED

100 FEET
50 FEET
25 FEET

5. AFTER UTILITY TRENCHES ARE BACKFILLED AND COMPACTED, THE SURFACES OVER SUCH TRENCHES SHALL BE MOUNDED SLIGHTLY TO PREVENT CHANNELING OF WATER IN THE TRENCH AREA. CARE SHOULD BE EXERCISED TO PROVIDE FOR CROSS FLOW AT FREQUENT INTERVALS WHERE TRENCHES ARE NOT ON THE CENTER LINE OF A CROWNED STREET.

6. ALL BUILDING PADS SHOULD BE SLOPED TOWARD THE DRIVEWAYS AND VELOCITY CHECK DAMS PROVIDED AT THE BASE OF ALL DRIVEWAYS DRAINING INTO THE STREET.

7. PROVIDE VELOCITY CHECK DAMS IN ALL UNPAVED GRADED CHANNELS AT THE INTERVALS INDICATED BELOW:

8. PROVIDE VELOCITY CHECK DAMS IN ALL PAVED STREET AREAS AT THE INTERVAL INDICATED ABOVE. VELOCITY CHECK DAMS MAY BE CONSTRUCTED OF GRAVEL BAGS, TIMBER, OR OTHER MATERIAL APPROVED BY THE CITY ENGINEER, AND SHALL EXTEND COMPLETELY ACROSS THE STREET OR CHANNEL AT RIGHT ANGLES TO THE CENTERLINE. VELOCITY CHECK DAMS MAY ALSO SERVE AS SEDIMENT

9. PROVIDE A GRAVEL BAG, SILT BASIN OR TRAP OR OTHER CITY APPROVED DEVICE BY EVERY STORM DRAIN INLET TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM.

10. GRAVEL BAG AND FILL MATERIALS SHALL BE STOCKPILED AT INTERVALS, READY FOR USE WHEN REQUIRED.

11. ALL EROSION CONTROL DEVICES WITHIN THE DEVELOPMENT SHALL BE MAINTAINED DURING AND AFTER EACH RUN-OFF PRODUCING RAINFALL. IF POSSIBLE, MAINTENANCE CREWS WOULD BE REQUIRED TO

12. PROVIDE ROCK RIP RAP ON CURVES AND AT STEEP DROPS IN ALL EROSION PRONE DRAINAGE CHANNELS DOWNSTREAM FROM THE DISTURBED AREA. THIS PROTECTION WOULD REDUCE EROSION CAUSED BY THE INCREASED FLOWS THAT MAY BE ANTICIPATED FROM DENUDED SLOPES, OR FROM IMPERVIOUS SURFACES.

13. THE CITY ENGINEER MUST APPROVE ANY ALTERNATE CONTROL MEASURE IN ADVANCE OF LAND DISTURBANCE.

14. THE MATERIALS RESULTING FROM THE SAW CUTTING AND GRINDING OF CONCRETE AND ASPHALT CONCRETE SHALL BE VACUUMED AND DISPOSED OF TO A PROPER SITE, AS APPROVED BY THE CITY

15. DURING THE CONSTRUCTION PERIOD, THE NUISANCE MATERIALS ON THE STREETS AND IN THE GUTTER SHALL BE ENTIRELY SWEPT, VACUUMED AND DISPOSED OF INTO A PROPER SITE, AS APPROVED BY

PERMANENT STORM WATER BMP NOTES

1. LANDSCAPED AREAS SHALL BE DESIGNED IN ACCORDANCE WITH WATER EFFICIENT LANDSCAPE ORDINANCE REQUIREMENTS.

2. ROOF DRAINAGE SHALL BE DIRECTED TO LANDSCAPED AREAS OR RAIN BARRELS.

3. WALKWAYS SHALL BE DESIGNED TO DRAIN TO ADJACENT LANDSCAPED OR NATURAL AREAS OR CONSTRUCTED USING PERMEABLE MATERIALS.

4. STREETS, SIDEWALKS, AND PARKING LOT AISLES SHALL BE CONSTRUCTED TO THE MINIMUM WIDTH NECESSARY, PROVIDED PUBLIC SAFETY IS NOT COMPROMISED.

5. EXISTING TREES AND NATURAL AREAS, INCLUDING BUT NOT LIMITED TO NATURAL WATER BODIES AND NATURAL STORAGE RESERVOIRS AND DRAINAGE CORRIDORS (E.G., TOPOGRAPHIC DEPRESSIONS, NATURAL SWALES, AND AREAS OF NATURALLY PERMEABLE SOILS), SHALL BE CONSERVED OR OTHERWISE PROTECTED TO THE EXTENT FEASIBLE

6. THE IMPERVIOUS FOOTPRINT, INCLUDING ROOFED AREAS AND PAVED AREAS. OF THE PROJECT SHALL BE MINIMIZED TO THE EXTENT APPLICABLE AND FEASIBLE.

7. DUMPSTERS, OTHER TRASH RECEPTACLES, AND WASTE COOKING OIL CONTAINERS SHALL BE STORED INSIDE BUILDINGS OR IN FOUR-SIDED ENCLOSURES WITH A STRUCTURAL OVERHEAD CANOPY DESIGNED TO PREVENT PRECIPITATION FROM CONTACTING MATERIALS STORED IN THE ENCLOSURE.

8. ONSITE STORM DRAINS SHALL BE STENCILED OR OTHERWISE PERMANENTLY LABELED WITH "NO DUMPING, DRAINS TO OCEAN" OR OTHER EQUIVALENT LANGUAGE APPROVED BY THE CITY.

9. OUTDOOR MATERIAL STORAGE AREAS AND OUTDOOR WORK AREAS SHALL BE PROTECTED FROM RAINFALL, RUN-ON AND WIND DISPERSAL

	SLOPE VARIES	FIBER R (PLACED ON L	OLL SPACING EVEL CONTOURS)
		SLOPE INCLINATION	HORIZONTAL INTERVAL
		4:1 (H:V) OR FLATTER	20 FEET (MAXIMUM)
	₩OOD STAKES WOOD STAKES MAX. 4' SPACING	BETWEEN 4:1 AND 2:1 (H:V)	15 FEET (MAXIMUM)
W W HER ROLLS		2:1 (H:V) OR STEEPER	10 FEET (MAXIMUM)
INSTALL A FIBER ROLL SLOPE WHERE IT TRANSITIONS INTO A STEEPER SLOPE ILL INSTALLATION N.T.S. TIBER ROLLS NOT TO SCALE	DECLARATION OF RESPONSIBLE CHARGE I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THIS PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONAL CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS	PASCO LAR San Diego Solana Bea Phone 858.259.8212 w	ET SUITER & ASSOCIATES ach Orange County ww.plsaengineering.com
	I UNDERSTAND THAT THE CHECK OF THESE PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF NATIONAL	PLANS FOR THE IMPROVEMENT	5 OF:
	CITY IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME AS ENGINEER OF WORK OF MY RESPONSIBILITIES FOR THE PROJECT DESIGN.	1628 ORA	ANGE STREET
VIEWED BY:		EROSION	CONTROL PLAN
	(WILLIAM G MACK, PE 73620) DATE	CITY OF N	ATIONAL CITY
RCE# 69107 DATE	No. 73620 Exp. 12/31/22	ROBERT YANO RCE# 5629 DIRECTOR OF PUBLIC WOR	2 DATE KS/CITY ENGINEER
EPARIMENI DATE EY	A CIVIL	PROJ. #EG22-002	49 NAD 83 HORIZ. DATU
	OF CALIFOR	SHEET <u>6</u> OF <u>6</u> SHE	етs 11594— <i>06</i> —D

SHOWN ON MAP NO. 8840 HAVING A BEARING N 18"59'30" W						
DETERMINED LOCALLY BY THE CENTERLINE OF ORANGE STREET AS	DATE COMPLETED:	SIGNATURE	SIGNATURE			
HORIZONTAL CONTROL: BASIS OF BEARINGS FOR THIS SURVEY IS THI						
DATUM: MSL (NGVD 29) ELEVATION: 100.80	INSPECTOR:					REVISIONS
EUCLIED AT THE NORTHEAST CORNER OF 16TH STREET AND FUCLID AVENUE		NAME COMPANY	NAME COMPANY			
BENCHMARK: CITY OF NATIONAL CITY VERTICAL CONTROL BENCHMARK BEING A BRASS PLUG ON THE TOP OF CURB	DATE STARTED:	PAUL J. DERISI AGS		OVED DATE	вү аррб	AS-BUILT
SURVEYOR: METROPOLITAN MAPPING	CONSTRUCTION RECORDS		CUNSTRUCTION SURVEYOR			ENGINEERING DEPARTMENT

CONICTOLICTION LECENID

JON91 R	OCTION LEGEND	
SYMBOL	DESCRIPTION	MANUFACTURER / MODEL
	CONCRETE PAVING	-
	CRUSHED ROCK	SOUTHWEST BOULDER
NO SYMBOL	BARK MULCH	AGRISERVICE, INC.
	ALUMINUM EDGER	_

GENERAL NOTES:

- 1. ALL GRADED, DISTURBED, OR ERODED AREAS THAT WILL NOT BE PERMANENTLY PAVED OR COVERED BY STRUCTURES SHALL BE PERMANENTLY REVEGETATED AND IRRIGATED IN ACCORDANCE WITH THE STANDARDS IN THE CITY OF CARLSBAD LANDSCAPE MANUAL.
- 2. GRADED PAD AREAS SHALL BE HYDRO-SEEDED TO PREVENT EROSION IN THE EVENT THAT CONSTRUCTION OF BUILDINGS DOES NOT OCCUR WITHIN 30 DAYS OF GRADING HYDRO-SEED SHALL BE IRRIGATED OR REAPPLIED AS NECESSARY TO ESTABLISH GROWTH.
- 3. ALL PLANTING, IRRIGATION, AND LANDSCAPE RELATED IMPROVEMENTS WILL COMPLY WITH THE CITY OF NATIONAL CITY LANDSCAPE REGULATIONS AND THE LANDSCAPE MANUAL STANDARDS.
- 4. ALL TREES SHALL BE MAINTAINED SO THAT ALL BRANCHES OVER THE PEDESTRIAN WALKWAYS ARE AT LEAST 6 FEET ABOVE THE WALKWAY GRADE AND SO THAT ALL BRANCHES OVER VEHICLE TRAVEL WAYS ARE 14 FEET ABOVE GRADE OF THE TRAVEL WAY.
- 5. ALL PLANTING AREAS SHALL BE MAINTAINED FREE OF WEEDS, DEBRIS, AND LITTER. 6. ALL PROPOSED IRRIGATION SYSTEMS WILL USE AN APPROVED RAIN SENSOR SHUTOFF
- DEVICE. 7. HIGH WATER USE PLANTS SHALL BE LIMITED TO NOT MORE THAN 10 PERCENT OF THE TOTAL DEVELOPED LANDSCAPE AREA. ALL OTHER PLANTINGS SHALL BE COMPOSED OF LOW-WATER-USE PLANT MATERIAL.
- 8. AN AUTOMATIC, ELECTRICALLY CONTROLLED IRRIGATION SYSTEM SHALL BE INSTALLED AS SHOWN ON THE CONSTRUCTION PLANS. IRRIGATION SYSTEMS SHALL ME MAINTAINED FOR PROPER DEVELOPMENT AND MAINTENANCE OF THE VEGETATION IN A HEALTHY. DISEASE-RESISTANT CONDITION. THE DESIGN OF THE SYSTEM SHALL PROVIDE ADEQUATE SUPPORT FOR THE VEGETATION SELECTED
- 9. INCORPORATE COMPOST AT A RATE OF AT LEAST FOUR CUBIC YARDS PER 1.000 SQUARE FEET TO A DEPTH OF SIX INCHES INTO LANDSCAPE AREA (UNLESS CONTRAINDICATED BY A SOIL TEST).
- 10. AT THE TIME OF FINAL INSPECTION, THE PERMIT APPLICANT MUST PROVIDE THE OWNER OF THE PROPERTY WITH A CERTIFICATE OF COMPLETION, CERTIFICATE OF INSTALLATION IRRIGATION SCHEDULE AND A SCHEDULE OF LANDSCAPE AND IRRIGATION MAINTENANCE.
- 11. ALL LANDSCAPED AREAS SHALL RECEIVE A 3" LAYER OF WOOD BARK MULCH UNLESS OTHERWISE NOTED ON PLANS.

DESIGN STATEMENT

THE LANDSCAPE CONCEPT FOR THE APARTMENT COMPLEX IS INFLUENCED BY THE STYLE OF THE ADJACENT COMMUNITY AND COMPLEMENTS THE ARCHITECTURAL STYLE OF THE BUILDING. THE ARRANGEMENT OF HARDSCAPE AND PLANTINGS PROMOTES MOVEMENT THROUGH THE SITE. ORNAMENTAL VEGETATION HAS BEEN SELECTED WITH CONSIDERATION OF DROUGHT TOLERANCE, EASE OF MAINTENANCE, STRUCTURE, FLOWER AND FOLIAGE. A RESTRICTED PALETTE OF PLANT MATERIAL SHALL MAINTAIN THE COHESIVE THEME OF THE LANDSCAPE DESIGN. THE LANDSCAPE STYLE SHALL MAINTAIN CONSISTENCY TO AVOID COMPLEX PLANT MIXTURES AND VISUAL CONFUSION.

CONDITIONS OF APPROVAL

- AS A CONDITION OF APPROVAL, A CERTIFICATE OF COMPLETION SHALL BE SUBMITTED TO THE PLANNING DIVISION WITHIN TEN DAYS OF THE INSTALLATION OF THE LANDSCAPING AND PRIOR TO BUILDING PERMIT FINAL
- 2. AS A CONDITION OF APPROVAL, A COPY OF THE RESTRICTIVE COVENANT FOR THE AFFORDABLE UNIT SHALL BE SUBMITTED TO THE PLANNING DIVISION FOR REVIEW PRIOR TO THE ISSUANCE OF THE BUILDING PERMIT.

COLOR / FINISHES / REMARKS	DETAIL	SHEET
NATURAL GRAY / TOP CAST FINISH #03 LIGHT VIOLET - "ACID ETCH" CONTRACTOR TO PROVIDE 5' X 5' REFEREE PANEL. CONCRETE TO BE SAW CUT / DEPTH PER GEOTECHNICAL ENGINEER	A/B	3
DESERT GOLD / 3/4" SCREENED / 3" DEPTH / OR APPROVED EQUAL	C	3
FOREST FINES / 3" DEPTH / ALL PLANTING AREAS TO RECEIVE BARK MULCH UNLESS OTHERWISE SHOWN ON CONSTRUCTION OR PLANTING PLANS	С	3
-	D	3

IRRIGATION NOTES:

- 1. IRRIGATION CONTROLLER SHALL BE: HUNTER IRRIGATION X-CORE 8 STATION WALL MOUNT CONTROLLER. MODEL # XC-800. RAIN SENSOR SHALL BE:
- 2. HUNTER IRRIGATION WIRELESS SOLAR SYNC MODEL # WSS-SEN
- PRESSURE REGULATORS SHALL BE INSTALLED ON THE IRRIGATION SYSTEM TO ENSURE THE DYNAMIC PRESSURE OF THE SYSTEM IS WITHIN THE MANUFACTURERS RECOMMENDED PRESSURE RANGE.
- PRESSURE REGULATOR SHALL BE
- WILKINS #500 YSBR
- FACTORY SET AT 70 PSI
- PRESSURE REDUCING VALVE SHALL BE LOCATED AS CLOSE TO POINT OF CONNECTION AS POSSIBLE.
- 4. MANUAL SHUT-OFF VALVES (SUCH AS A GATE VALVE, BALL VALVE, OR BUTTERFLY VALVE) SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO THE POINT OF CONNECTION OF THE WATER SUPPLY.
- 5. ALL IRRIGATION EMISSION DEVICES MUST MEET THE REQUIREMENTS SET IN THE ANSI STANDARD. ASABE/ICC 802-2014 "LANDSCAPE IRRIGATIOON SPRINKLER AND EMITTER STANDARD." AND ALL SPRINKLER HEADS SNSTALLED IN THE LANDSCAPE MUST DOCUMENT A DISTRIBUTION UNIFORMITY LOW QUARTER OF 0.65 OR HIGHER USING THE PROTOCOL DEFINED IN ASABE/ICC 802-2014.
 - **OVERHEAD IRRIGATION NOZZLES SHALL BE:**
 - HUNTER IRRIGATION MP ROTATOR

MODEL MP1000,2000,3000 AS NEEDED WITH A WORKING PRESSURE OF 40 PSI. DISTRIBUTION UNIFORMITY OF THESE NOZZLES ARE .8 PER HUNTER.COM

- DRIP IRRIGATION SHALL BE HUNTER IRRIGATION PLD DRIP LINE.
- MODEL AND SPACING SHALL BE DETERMINED AFTER A SOILS REPORT IS COMPLETED. INSTALL PER MANUFACTURERS RECOMMENDATION. DISTRIBUTION UNIFORMITY OF THIS LINE IS .9 PER HUNTER.COM
- 6. FOR GENERAL VALVE LOCATIONS REFER TO HYDROZONE CHART ON SHEET L1.1. SYSTEMS SHALL BE DESIGNED SO THAT VALVES ONLY OPERATE HEADS INSIDE THE SAME HYDROZONE.
- 7. ALL HYDROZONES SHALL BE VALVED/ZONED SEPERATELY

GENERAL LEGEND

	EXPANSION JOINT
	SAWCUT JOINT
$\sqrt{\gamma}$	ALIGNMENT SYMB
Q	CENTERLINE
P	PERPENDICULAR
ALN	ALIGN

DESIGN CRITERIA:

- AND ALL OTHER LANDSCAPE-RELATED CITY AND REGIONAL STANDARDS.
- 2. PLANTING WILL BE DESIGNED TO HIGHLIGHT ENTRANCE AREAS TO THE PROJECT AND ADD VISUAL INTEREST TO THE SITE.
- THE AREA OR IN SIMILAR CLIMATIC AND SOIL CONDITIONS.
- WARM, AND VISUALLY APPEALING LANDSCAPE ENVIRONMENT.

IRRIGATION CONCEPT:

THE LANDSCAPE ASSOCIATED WITH THIS PROJECT SHALL BE IRRIGATED BY MEANS OF A POTABLE AUTOMATIC IRRIGATION SYSTEM. THE SYSTEM SHALL INCLUDE THE FOLLOWING: 1. IRRIGATION SYSTEM SHALL BE PROTECTED BY A BACKFLOW PREVENTION DEVICE. 2. IRRIGATION SYSTEM SHALL BE AN AUTOMATIC, PERMANENT, BELOW-GRADE SYSTEM. 3. HOSE BIBBS SHALL BE INCLUDED TO SERVICE PLANTING AREAS.

- 4. IRRIGATION SYSTEMS SHALL BE SPRAY OR DRIP SYSTEMS.
- 5. NO IRRIGATION RUN-OFF SHALL DRAIN OFF-SITE INTO THE PUBLIC RIGHT-OF-WAY, STREETS, DRIVES, OR ALLEYS. A CONNECTION SHALL NOT BE MADE TO ANY STORMWATER SYSTEM WITHOUT PROPER BMP'S
- 6. THE BMP'S SHALL STORE AND TREAT ALL STORMWATER AND ACCIDENTAL IRRIGATION RUN-OFF PRIOR TO DISCHARGE INTO CITY STORMWATER SYSTEM ALL IMPERMEABLE SURFACES SHALL BE CONSTRUCTED TO CAUSE WATER TO DRAIN
- ENTIRELY INTO A LANDSCAPED AREA.
- 8. ONLY SUBSURFACE IRRIGATION SHALL BE USED TO IRRIGATE ANY VEGETATION WITHIN TWENTY-FOUR INCHES OF AN IMPERMEABLE SURFACE UNLESS THE WATER TO DRAIN ENTIRELY INTO A LANDSCAPED AREA.

MIN. TREE / IMPROVEMENT SEPARATION DISTANCE:

TRAFFIC SIGNAL / STOP SIGN - 20 FEET **UNDERGROUND UTILITY LINES - 5 FEET** ABOVE GROUND UTILITY STRUCTURES - 10 FEET SEWERS - 10 FEET **DRIVEWAYS - 10 FEET** INTERSECTIONS (INTERSECTING CURB LINES OF TWO STREETS) - 25 FEET

MAINTENANCE:

ALL REQUIRED LANDSCAPE AREAS SHALL BE MAINTAINED BY THE OWNER. LANDSCAPE AREAS SHALL BE FREE OF DEBRIS AND LITTER AND ALL PLANT MATERIAL SHALL BE MAINTAINED IN A HEALTHY GROWING CONDITION

MANUFACTURER PHONE NUMBERS:

SOIL RETENTION: (800) 346-7995 KRC ROCK: (800) 572-7625 SOUTHWEST BOULDER: (61 HANDY METAL MART: (619)

9) 591-2366					
		DECLARATION OF RESPONS	IBLE CHARGE		
174-3379		I HEREBY DECLARE THAT I AM THE LANDS WORK FOR THIS PROJECT, THAT I HAVE E CHARGE OVER THE DESIGN OF THIS PROJ IN SECTION 6703 OF THE BUSINESS AND CODE, AND THAT THE DESIGN IS CONSIST CURRENT STANDARDS.	CAPE ARCHITECT OF XERCISED RESPONSIBLE ECT AS DEFINED PROFESSIONAL ENT WITH	CALIF NATION 13 INCORP	ORNIA
		I UNDERSTAND THAT THE CHECK OF THES DRAWINGS AND SPECIFICATIONS BY THE C CITY IS CONFINED TO A REVIEW ONLY AN RELIEVE ME AS ENGINEER OF WORK OF M RESPONSIBILITIES FOR THE PROJECT DESI	E PROJECT TY OF NATIONAL) DOES NOT Y SN.	PLANS FOR THE IMPROVEMENTS OF: 1628 ORANG	GE STREET
PLANS REVIEWED BY:				LANDSCAPE CO	NSTRUCTION PLAN
		(KYLE SIMON, LLA 6290)	DATE	CITY OF NAT	IONAL CITY
RCE# XXXXX DEPUTY CITY ENGINEER	DATE	SU LANDSCAPE ARE SULE J. SIMON NO. 6290	TECT *	RCE# XXXXX DIRECTOR PUBLIC WORKS/CITY	DATE ENGINEER
ENGINEERING DEPARTMENT	DATE	OF CALLED		PROJ. #XXXX-XXXX	NAD 83 HORIZ. DATUM

LIC.EXP. 7/30/2023

Г	PA	PLANTING AREA
30L	DETAIL CALLOUT	A DETAIL L-8 SHEET NUMBER

ALL LANDSCAPE AND IRRIGATION SHALL CONFORM TO THE LANDSCAPE STANDARDS OF THE CITY-WIDE LANDSCAPE REGULATIONS, THE CITY OF NATIONAL CITY LANDSCAPE MANUAL

3. ALL PLANT MATERIAL SELECTED FOR USE WILL BE OF A TYPE KNOWN TO BE SUCCESSFUL IN

COLOR FROM PLANT FOLIAGE, BARK, OR FLOWER WILL BE UTILIZED TO CREATE AN INVITING.

ADJACENT IMPERMEABLE SURFACES ARE DESIGNED AND CONSTRUCTED TO CAUSE

SHEET <u>1</u> of <u>12</u> Sheets XXXXX - 1 - D

	CONSTRUCTION SURVEY	DR I GEOTECHNICAL OF RECORD	CONSTRUCTION RECORDS	SURVEYOR: METROPOLITAN MAPPING BENCHMARK: CITY OF NATIONAL CITY VERTICAL CONTROL
-	- NAME COMPANY	PAUL J. DERISI AGS NAME COMPANY	DATE STARTED:	BENCHMARK BEING A BRASS PLUG ON THE TOP OF CURB LOCATED AT THE NORTHEAST CORNER OF 16TH STREET AND
1	1-,		INSPECTOR:	EUCLID AVENUE DATUM: MSL (NGVD 29) ELEVATION: 100.80
				HORIZONTAL CONTROL: BASIS OF BEARINGS FOR THIS SURVEY IS THE CA COORDINATE SYSTEM. CCSR3, ZONE 6, 2011.00 FPOCH, AS
1	SIGNATURE	SIGNATURE	DATE COMPLETED:	DETERMINED LOCALLY BY THE CENTERLINE OF ORANGE STREET AS SHOWN ON MAP NO. 8840 HAVING A BEARING N 18'59'30" W
	A/B CONCRETE PAVING 3 (TYPICAL SYMBOL)	D ALUMINUM EDGER 3 (TYPICAL SYMBOL) C CRUSHED ROCK 3 (TYPICAL SYMBOL) B EXPANSION JOINT 3 (TYPICAL SYMBOL)	TRANSFORMER	

GR/

16 8 0 1/16

PLANS REVIE

CONSTRUCTION KEY:

PA	PLANTING AREA
	EXPANSION JOINT
	SCORE JOINT
DETAIL	DETAIL
CALLOUT	LC-3- SHEET NUMBER
$\sqrt{\gamma}$	ALIGNMENT SYMBOL
C.	
Ľ	CENTERLINE
¥	90° ANGLE
۲ EQ	90° ANGLE EQUAL DISTANCE
¥ F EQ ALN	90° ANGLE EQUAL DISTANCE ALIGN
¥ F EQ ALN	90° ANGLE EQUAL DISTANCE ALIGN

MINIMUM STREET TREE SEPARATION DIST	ANCES:
NTERSECTIONS	25 FEET
DRIVEWAYS	10 FEET
SEWER LATERALS	10 FEET
FRONT OF TRAFFIC SIGNAL, STOP SIGN	20 FEET
BACK OF TRAFFIC SIGNAL, STOP SIGN	10 FEET
UNDERGROUND UTILITY LINES	5 FEET
ABOVE GROUND UTILITY STRUCTURES	10 FEET
STREET LIGHTS	15 FEET

GENERAL NOTE:

REFER TO CIVIL ENGINEERING PLANS FOR DIMENSIONS, LOCATIONS AND ELEVATIONS OF ALL WALLS, CURBS PAVING AND STEPS.

				Simon. landscape architecture 619.370.1080
	E	DECLARATION OF RESPONSIBLE CH	IARGE	
(IN FEET) 8 16 6 INCH = 1 F	32 	I HEREBY DECLARE THAT I AM THE LANDSCAPE ARCHI WORK FOR THIS PROJECT, THAT I HAVE EXERCISED R CHARGE OVER THE DESIGN OF THIS PROJECT AS DEF IN SECTION 6703 OF THE BUSINESS AND PROFESSION CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.	itect of Esponsible Ined Val	CALIFORNIA NATIONAL CITY 1337 INCORPORATED
		I UNDERSTAND THAT THE CHECK OF THESE PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF NATIO	ONAL	PLANS FOR THE IMPROVEMENTS OF:
		RELIEVE ME AS ENGINEER OF WORK OF MY RESPONSIBILITIES FOR THE PROJECT DESIGN.		1628 ORANGE STREET
EWED BY:				LANDSCAPE CONSTRUCTION PLAN
		(KYLE SIMON, LLA 6290) DA	NTE	CITY OF NATIONAL CITY
	DATE	LANDSCAPE TROUBLE STATE		RCE# XXXXX DATE DIRECTOR PUBLIC WORKS/CITY ENGINEER
PARTMENT	DATE	B/22/22 P F OF CALLE		PROJ. #XXXX-XXXX NAD 83 HORIZ. DATUM
		LIC.EXP. 7/30/2023		SHEET 2_OF_12_ SHEETS XXXXX -2 $-D$

FNGINFFRING DFPARTMFNT		_						
AS-BUILT	BY APPROVE	ED DATE		PAUL J. DERISI AGS	DATE STARTED.		BENCHMARK: CITY OF NATIONA BENCHMARK BEING A BRASS P	L CITY VERTICAL CONTROL
			NAME COMPANY	NAME COMPANY			LOCATED AT THE NORTHEAST (CORNER OF 16TH STREET AND
REVISIONS					INSPECTOR.		DATUM: MSL (NGVD 29)	ELEVATION: 100.80
							HORIZONTAL CONTROL: BASIS (JF BEARINGS FOR THIS SURVEY IS THE
			SIGNATURE	SIGNATURE	DATE COMPLETED:		CA COURDINATE SYSTEM, CCS8 DETERMINED LOCALLY BY THE (SHOWN ON MAP NO. 8840 HAV	3, ZONE 6, ZUIT.UU EPOCH, AS CENTERLINE OF ORANGE STREET AS ING A BEARING N 18°59'30" W
DIAL BEFORE YOU DIG TOLL FREE UNDERGROUND SERVICE BY UNDERGROUND SERVICE ALERT		C MULCH AT HARDSCAPE SCALE: 1-1/2" = 1'-0"	 <u>NOTES:</u> 1. PLACE FILTER FABRIC UNDER ALL INORGANIC MULCH AREAS. SECURE EDGES WITH JUTE MAT STAPLES AT CORNERS AND A MINIMUM OF 3' ALONG EDGES. ALLOW 2 INCH CLEARANCE FROM EDGE OF FILTER FABRIC TO PREVENT TEARING AND COVER EDGE OF FABRIC WITH MULCH. 2. PLANTING AREAS INCLUDING AREAS WITH COBBLE SHALL BE ROTOTILLED PER SPEC. 3. FINISH GRADE SHALL BE 4" BELOW TOP OF ADJACENT CONCRETE IMPROVEMENTS. 	ADJACENT PAVING PER PLAN MULCH; REFER TO CONSTRUCTION LEGEND, SHEET 1 FOR TYPE AND DEPTH 1" 1" 12" JUTE MAT STAPLE (14 GUAGE MIN.) FILTER FABRIC		 PAVING PER PLAN - TYPE AND FINISH PER PLAN PAURG PER PLAN - TYPE AND FINISH PER PLAN FIBER EXPANSION JOINT MATERIAL SEALANT-VULCAN OR EQUIVALENT (COLOR SHALL MATCH CONCRETE) SEALANT-VULCAN OR EQUIVALENT (COLOR SHALL MATCH CONCRETE) 1/2" DEEP TOOLED SCORELINE 3/8" (PEDESTRIAN ACCENT PAVING) 1/2" (DRIVEWAY PAVING) TYPICAL CONCRETE JOINTS 	Image: Constraint of the second se	

NOTES:

- REFER TO PLAN FOR LOCATIONS 1. 2. EXPANSION JOINTS TO BE AS SHOWN PER PLAN, BETWEEN BACK OF CURB AND PAVING, ADJACENT TO BUILDING AND COLUMNS.
- 3. TOOLED SCORELINES TO BE AT 5' INTERVALS UNLESS OTHERWISE NOTED.

NOT TO SCALE

NOTES: 1. REFER TO LANDSCAPE CONSTRUCTION LEGEND FOR CONCRETE COLOR AND FINISH.

- 2. REFER TO LANDSCAPE CONSTRUCTION PLANS FOR LOCATIONS OF EXPANSION AND SAWCUT SCORE JOINTS.
- 3. REFER TO DETAIL A, ON SHEET L1.3 FOR CONTROL AND SCORE JOINTS. 4. SUBGRADE PREPARATION SHALL BE DONE AS RECOMMENDED BY TEST LAB AND IN ACCORDANCE WITH SECTION 301-1 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION).

PLANS RI	EVIEWED BY:
DEPUTY CITY	RCE# XXXXX ENGINEER
ENGINEERING	DEPARTMENT

- FINISH AS INDICATED ON PLAN
- REINFORCING PER
- GEOTECHNICAL REPORT

SCALE: 1-1/2" = 1'-0"

SCALE: 2" = 1'-0"

DATE

DATE

	Simon. landscape architecture 619.370.1080
DECLARATION OF RESPONSIBLE CHARGE	
I HEREBY DECLARE THAT I AM THE LANDSCAPE ARCHITECT OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THIS PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONAL CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.	CALIFORNIA NATIONAL CITY 1337 INCORPORATED
I UNDERSTAND THAT THE CHECK OF THESE PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF NATIONAL	PLANS FOR THE IMPROVEMENTS OF:
RELIEVE ME AS ENGINEER OF WORK OF MY RESPONSIBILITIES FOR THE PROJECT DESIGN.	1628 ORANGE STREET
	LANDSCAPE CONSTRUCTION PLAN
(KYLE SIMON, LLA 6290) DATE	CITY OF NATIONAL CITY
SED LANDSCAPE TROP SEL LE J. SYMON J. NO. 6290	RCE# XXXXX DATE

CIFICATIONS BY THE CITY (O A REVIEW ONLY AND DO INEER OF WORK OF MY OR THE PROJECT DESIGN.	OF NATIONAL DES NOT	1628 ORAN LANDSCAPE CO	GE STREET INSTRUCTION PLAN
A 6290)	DATE	CITY OF NA	TIONAL CITY
ANDSCAPE SHOLE J. SIMON NO. 6290		RCE# XXXXX DIRECTOR PUBLIC WORKS/CITY	DATE ZENGINEER
TE OF CALLE		PROJ. #XXXX-XXXX	NAD 83 HORIZ. DATUM
LIC.EXP. 7/30/2023		SHEET <u>3</u> OF <u>12</u> SHEETS	XXXXX-3 -D

		Y IS \S ET AS						GA	LLONS PER MI	IUTE						
TROL	CURB EET AND	EPOCH, A GE STREE		SYMBOL	DESCRIPTION	RADIUS	360°	270°	210° 180°	120°	90°	MANUFACTURER	MODEL	DETAIL	DRAWING NO.	12 INCF 5 GPM) 5 GPM) 5 GPM)
PING CAL CON	TOP OF 6TH STR 100.80	FOR THI 2011.00 E DF ORAN		••	4" POP-UP PRESSURE COMPENSATING MULTI-STREAM 40 BUBBLER (2 PER PLANT)	1.5'	_	_		_	.5	HUNTER	PROS-04-CV-R MSBN-50Q	В	8	ED FOR IPS (+.0 ED FOR
DPOLITAN MAPF	ASS PLUG ON THE AST CORNER OF 1 ELEVATION: 1	ASIS OF BEARINGS CCS83, ZONE 6, 2 THE CENTERLINE (U HAVING A BEAKI		POLYETHYLENE DRIP LINE .6 GPH EMITTERS 12" ON CENTER, INSTALL T PLANTING STRIP AREAS. SPACING SHALL BE REFER TO MANUFACTURERS RECOMENDAT COMPACTED FINISH SOIL GRADE. TUBING S STAPLES. SEE DETAIL AND NOTES .	UBING ROW E ADJUSTED IONS. ALL T HALL BE SE	VS A MAX O ACCORI UBING TO CURED V	IMUM OF DING TO T D BE INST VITH JUTE	18" APART IN TO SOIL TYPE. ALLED ON E MATT	25 PS .6 GPH	I	HUNTER	HDL-06-12-R	C/E	8	GPM ADJUSTE SPRAY POP-U GPM ADJUSTE GPM ADJUSTE ROTOR POP-L
R: METRO	BEING A BRA THE NORTHE UUE (NGVD 29)	CONTROL: B/ ATE SYSTEM, LOCALLY BY	MAP NU. 0040		AUTOMATIC CONTROLLER - EXTERIOR WALL RAIN SHUT-OFF DEVICE	. MOUNT - S	IZE AS IN	IDICATED	ON PLAN			HUNTER HUNTER	PC-1200 WSS-SEN	С	6	
RVEYC HMARK:	HMARK TED AT D AVEN M: MSL	CONTAL CORDIN CORDIN RMINED		\otimes	GLOBE VALVE - SIZE AS INDICATED ON PLAN	N						NIBCO	#T-211-B	E	6	
SUI	BENC LOCA EUCLI DATU	HORIZ CA C DETEF		Μ	IRRIGATION SUBMETER - SIZE AS INDICATED SUBMETER TO BE PAINTED PURPLE	ON PLAN -						NEPTUNE	T-10	E	7	
					MASTER CONTROL VALVE (NORMALLY CLOS (MINIMUM OPERATING RATE OF 1 GPM) - SIZ	ED) E AS INDICA	TED ON I	PLAN - INS	STALL IN BOX			SUPERIOR	#3200 - RW	В	7	
				F	FLOW METER - SIZE AS INDICATED ON PLAN	- INSTALL IN	N BOX	CONTRO	ILER			HUNTER	HC-100-FLOW	С	7	
()					QUICK COUPLING VALVE - 3/4" DOUBLE LUG	- 10" ROUNE				ED BY AGI	ENCY	RAINBIRD	#33DNP	A	7	-
CORD					BALL VALVE - SIZE AS INDICATED ON PLAN -	INSTALL IN	BOX					NIBCO	TS580-A	F	6	
L RE					REMOTE CONTROL VALVE -PLASTIC - SIZE A	S INDICATE	D ON PL	AN - INSTA	ALL ONE PER BO	X		RAINBIRD	#PESB-R	A	8	
STRUCTION					DRIP VALVE ASSEMBLY WITH CONTROL VALV 2 TO 20 GPM (1") / 20 TO 40 GPM (1.5") WITH RECLAIMED WATER ID HANDLE	VE AND 40 F	PSI PRES	SURE REC	GULATOR:			HUNTER HUNTER	ICZ-(101/151)-R-40 P/N 561205	F	7	
CONS	ËD	ETED:			AIR RELEASE VALVE - 1/2" AIR/VACUUM RELI	EF VENT						HUNTER	PLD-AVR	D	8	
	START	COMPL		0	MANUAL FLUSH VALVE - IN 6" DIAMETER BOX	<						HUNTER	PLD-BV	D	7	
	DATE	DATE			MAIN PRESSURE LINE (COPPER) INSTALLED	BETWEEN	P.O.C. AN	ID BACKF	LOW (MINIMUM	DEPTH 18	')	SEAMLESS TYPE K HARD DRA	AWN TUBING	A	6	
ORD	 	1			MAIN PRESSURE LINE PIPE (CLASS 315 PVC SMALLER) (MINIMUM DEPTH 18")	FOR 2" & LA	ARGER) (SCHEDUL	E 40 PVC FOR F.	PIPE 1-1/2"	&	PACIFIC PLASTICS ALERTLINE APPROVED EQUAL W/ CHRIST WATER MARKING TAPE OR AF	E PURPLE RECYCLED WATER PIPE OR TY'S 6" PURPLE RECYCLED/RECLAIMED PPROVED EQUAL.	A	6	
. REC	OMPAN				NON PRESSURE LATERAL PIPE - SCHEDULE	40 (MINIMUN	M SIZE 3/4	4 INCH)				PACIFIC PLASTICS ALERTLINE APPROVED EQUAL	E PURPLE RECYCLED WATER PIPE OR	A	6	
AL OF					PIPE SLEEVES SCHEDULE 40 PVC (2 SIZES L	ARGER THA	N MAIN C	R LATER	AL LINE)			PW EAGLE OR APPROVED EQ	QUAL	A	6	
CHNIC		IURE			PULL BOX - BRANDED "PB"							BROOKS, CARSON OR APPRO	OVED EQUAL	-	-	_
		SIGNA			DIRECT BURIAL CONTROL WIRE (SOLID COPI WIRE CONNECTION	PER - COLO	R CODED))				PEN-TITE OR APPROVED EQUAL		B D	6	-
CONSTRUCTION SURVEYOR	DAIE COMPANY -	SIGNATURE		 POLYETHYLENE TU AS POSSIBLE FOR FLEXIBILITY OF PIF TURN RADIUS NO TUBING. USE ELBO PIPE. POLYETHYLENE PI GRADE AT A UNIFO STAKE LINE SECUE MAXIMUM SPACINO SECURELY. 	UBING SHALL BE LAID OUT IN AS STRAIGHT A LINE ONE HOUR PRIOR TO INSTALLATION TO INCREAS PE AND EASE OF INSTALLATION. TIGHTER THAN 18 INCHES WITH POLYETHYLENE OWS IN SHARP CORNERS TO AVOID BENDING OF IPE SHALL BE INSTALLED 4 TO 6 INCHES BELOW ORM DEPTH WITH EMITTER PORTS FACING UP. RELY IN PLACE WITH JUTE MAT STAPLES AT A G OF 6 FEET ON CENTER. STAKE END OF LINE	E	GE 1. L 2. I F (1. 2. 1. 1. 2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	NERA OCATION ONLY. PIL OCATED T IS THE F HERSELF RETAINING OORDINA JNDER RO	AL IRRIGATION PING, VALVES, A IN PLANTING AN RESPONSIBILITY WITH ALL GRAD G WALLS AND O ATE WORK WITH I AND THE INSTA DADWAYS, PAVI	ATIC EQUIPMI AND OTHE REAS WHE OF THE E DIFFER THER OBS THER OBS THER OBS THE WO ALLATION NG, STRU PAVING S TALLATIC	N N(ENT IS SI R IRRIG/ ENEVER I CONTRA ENCES, I STRUCTION RK OF C OF PIPE CTURES HALL BE	DTES HOWN DIAGRAMMATIC ALLY ATION FIXTURES SHALL BE POSSIBLE. CTOR TO FAMILIARIZE HIM OR OCATION OF WALLS, ONS. CONTRACTOR SHALL THER TRADES FOR THE SLEEVES THROUGH WALLS, AND OTHER OBSTRUCTIONS. INSTALLED IN PVC SLEEVES. OTHER TRADES TO ENSURE	 IRRIGATION NOT 1. DESIGN PRESSURE IS 64 PS 2. CONTRACTOR SHALL VERIE BEFORE INSTALLING IRRIG 3. INSTALL ALL VALVES IN PLA PAVING WHERE POSSIBLE. RCV'S TOGETHER AS INDIC 4. CONTROLLER SHALL BE PR APPLICATION SHALL NOT E OR CAUSE RUN-OFF. APPL SUFFICIENT TO PREVENT R 	ES SI. EY EXISTING WA SATION SYSTEM ANTING AREAS A PLACE NO MOI ATED ON PLAN. ROGRAMMED SO EXCEED SOIL INF LICATION RATE ROOT STRESS.	ATER PRESSURE AND ADJACENT T RE THAN THREE O THAT WATER FILTRATION RAT SHALL BE	тО E
	APPROVED L			4. POSITION POLYET AS SHOWN ON PL TO IRRIGATION EN WITH EMITTER INS	HYLENE TUBING IN PARALLEL ROWS WITH SPACIN AN. PLANT MATERIAL SHALL BE PLACED ADJACEN /ITTERS. COORDINATE PLACEMENT OF SHRUBS STALLATION.	IG T	4. (\ (CONTRAC WHEN IT I GRADE DI PHASE C	TOR SHALL NO S OBVIOUS IN T FFERENCES EX	TALLATIO T WILLFUL HE FIELD IST THAT	LY INST THAT UN WERE NO	ALL THE SYSTEM AS DESIGNED KNOWN OBSTRUCTIONS OR OT KNOWN DURING DESIGN	5. INSTALL RAIN CUP FOR RAI AREA AS APPROVED BY TH NOT INSTALL BELOW BUILI INACCESSIBLE TO RAINFAL	N SHUTOFF DE' E LANDSCAPE / DING EAVES OR L.	VICE IN AN OPEN ARCHITECT. DO WHERE	J
	́т 		-	5. CONTRACTOR SHA "CAUTION: BURIED TURF AREA.	ALL INSTALL METAL 4" X 6" WARNING SIGN STATIN) IRRIGATION LINES" AT PROPERTY LINE AND NEAF	G R		CONDITIO CONTRAC THAT IRRI	NS ON SITE ANI TOR SHALL MAI GATION COVER D BY THE LAND	CONTAC CONTAC CE APPRC AGE IS 10 SCAPE AR	TING TH PRIATE / 0% IN AL CHITECT	E LANDSCAPE ARCHITECT. ADJUSTMENTS TO ENSURE L PLANTING AREAS AS				
EPARTMENT							5. S F F	SPECIMEN PIPING. ST PIPE.	N PLANT LOCAT FAKE SPECIMEN	ONS TAK	E PREC DCATION	EDENCE OVER IRRIGATION S PRIOR TO TRENCHING FOR			PLAN	S REVIEWED
NEERING DE	JUIL T			<u>IGALERI</u>			6. / /	THE CONT AND REAE EXISTING	RACTOR SHALI	. BE RESF GATION EC E.	ONSIBLE QUIPMEN	FOR TESTING, RELOCATING T, CUTTING AND CAPPING OF			DEPUTY	RCE# XXX CITY ENGINEER
ENGI	AS-E REVIS		DIAL BEFOI YOU TOLL	RE DIG FREE A PUBLIC SERVICE BY JNDERGROUND SERVICE ALERT	NG RE 500		7. F \ F	PRIOR TO VERIFY OI FOR THOS	BIDDING THE P N-SITE THE WOI SE AREAS. CON	ROJECT T RK TO BE TACT LAN	HE CON DONE AN DSCAPE	FRACTOR BIDDING SHALL ID THE LIMIT OF WORK LINE ARCHITECT.			ENGINE	ERING DEPARTMEN

PLANS REVIEWED B
RCE# XXXXX DEPUTY CITY ENGINEER
ENGINEERING DEPARTMENT

CONVENTIONAL RCV

DRIP RCV

MINIMUM DEPTH OF COVER OVER PIPE AND WIRE:

PIPE UNDER TRAFFIC LOADS: MAIN PRESSURE LINES: LATERAL NON-PRESSURE LINES: CONTROL WIRING: CONTROL WIRING PIPE UNDER TRAFFIC LOADS:

36" MINIMUM DEPTH 18" MINIMUM DEPTH 12" MINIMUM DEPTH 18" MINIMUM DEPTH

30" MINIMUM

	landscape architecture 619.370.1080
DECLARATION OF RESPONSIBLE CHARG	E
I HEREBY DECLARE THAT I AM THE LANDSCAPE ARCHITECT WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPON CHARGE OVER THE DESIGN OF THIS PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONAL CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.	OF ISIBLE ISIBLE ISIBLE
DRAWINGS AND SPECIFICATIONS BY THE CITY OF NATIONAL CITY IS CONFINED TO A REVIEW ONLY AND DOES NOT	PLANS FOR THE IMPROVEMENTS OF:
RELIEVE ME AS ENGINEER OF WORK OF MY RESPONSIBILITIES FOR THE PROJECT DESIGN.	1628 ORANGE STREET
	LANDSCAPE CONSTRUCTION PLAN
(KYLE SIMON, LLA 6290) DATE	CITY OF NATIONAL CITY
SED LANDSCAPE TAR	
NO. 6290	DATE
DATE OF CALLEO	PROJ. #XXXX-XXXX NAD 83 HORIZ. DATUM
LIC.EXP. 7/30/2023	SHEET <u>4</u> of <u>12</u> Sheets $XXXXX - 4 - D$

simon.

VIEWED BY:

RCE# XXXXX DATE ENGINEER

DATE

PLANS REVI DEPUTY CITY ENGI ENGINEERING DEP

NOTES:

WATER METER LOCATION PER CIVIL DRAWINGS. CONTRACTOR TO VERIFY LOCATION OF WATER METER BEFORE CONSTRUCTION.

LOCATION OF IRRIGATION EQUIPMENT IS SHOWN DIAGRAMMATICALLY FOR CLARITY. LOCATE EQUIPMENT WITHIN PLANTING AREAS WHEREVER POSSIBLE.

A-13	1"	1"
11	.51	40 PSI
A-14	1"	1"
11	.51	40 PSI

- MANUAL FLUSH VALVE - LATERALS 🔘 DRAIN TO LOW POINT IN SYSTEM. TYPICAL FOR ALL SYSTEMS.

		Simon. landscape architecture 619.370.1080
	DECLARATION OF RESPONSIBLE CHARGE	
(IN FEET) 8 16 32 16 INCH = 1 FT	I HEREBY DECLARE THAT I AM THE LANDSCAPE ARCHITECT OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THIS PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONAL CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.	CALIFORNIA - NATIONAL CITY 1337 INCORPORATED
	I UNDERSTAND THAT THE CHECK OF THESE PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF NATIONAL CITY IS CONFINED TO A REVIEW ONLY AND DOES NOT	PLANS FOR THE IMPROVEMENTS OF:
	RELIEVE ME AS ENGINEER OF WORK OF MY RESPONSIBILITIES FOR THE PROJECT DESIGN.	1628 ORANGE STREET
IEWED BY:		LANDSCAPE CONSTRUCTION PLAN
	(KYLE SIMON, LLA 6290) DATE	CITY OF NATIONAL CITY
DATE	SCH LANDSCAPE TROL SSU LILE J. SIMO NO. 6290 * * * * * * *	DIRECTOR PUBLIC WORKS/CITY ENGINEER
	OF CALLED	PROJ. #XXXX—XXXX NAD 83 HORIZ. DATUM
	LIC.EXP. 7/30/2023	SHEET <u>5</u> of 12 sheets $XXXXX - 5$ — D

UNDERGROUND SERVICE ALERT

NORMAL LOCATIONS OF CONTROL WIRES

ALTERNATE LOCATION OF CONTROL WIRES

DIRECT BURIAL CONTROL WIRE

NOTES:

SCALE: NONE

1. BEDDING MATERIAL SHALL HAVE A SAND EQUIVALENT OF 50, MINIMUM 2. PLACE A 3" WIDE RED CONTINUOUS PLASTIC TAPE TRENCH MARKER, 9" TO 12" BELOW FINISH GRADE, DIRECTLY ABOVE THE DIRECT BURIAL CONTROL WIRES.

B

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D

NOTES:

- MANUAL VALVES MUST BE FURNISHED WITH A STANDARD MANUAL CONTROL VALVE BRONZE CROSS HANDLE.
- 2. VALVES MUST BE PROVIDED WITHIN 12" OF THE WATER MAIN UNLESS OTHERWISE SHOWN ON PLAN.
- 3. MANUAL VALVES MUST BE FURNISHED WITH A REMOVABLE BONNET AND PACKING GLAND NUT.
- CLOSE NIPPLES MUST NOT BE USED.
- 5. LOCKING CAP MUST BE MOUNTED 1 INCH ABOVE FINISH GRADE IN SHRUB AREAS.

LIC.EXP. 7/30/2023

SHEET <u>6</u> of <u>12</u> Sheets XXXXX - 6 - D

PLANS R	EVI
DEPUTY CITY	. RC ENG
ENGINEERING	DEF

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simon.

DRIP INSTALLATION

SCALE: NONE

	landscape architecture 619.370.1080
DECLARATION OF RESPONSIBLE CHARGE	
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	LANDSCAPE CONSTRUCTION PLAN
(KYLE SIMON, LLA 6290) DATE	CITY OF NATIONAL CITY
SCIENTIFE SCIENTIFE	DATE DIRECTOR PUBLIC WORKS/CITY ENGINEER DATE DATE DATE PROJ. #XXXX-XXXX NAD 83 HORIZ. DATUM
	SHEET <u>8</u> OF <u>12</u> SHEETS $XXXXX - 8 - D$

RCE# XXXXX

DATE

DATE

ENGINEERING DEPARTMEN					CONSTR	UCTION	I SURVEY	OR A	GEOTEC Aui Ji Def	HNICAL (OF RECC			CONST	RUCTION	RECORD	N	BEN SC	JRVEYOR: -	METROPOLITAN	N MAPPING TY VERTICAL CONTRO	
AS-BUILT REVISIONS		RY	APPROVED	- DAIE	NAME		COMPANY		NAME		COMPANY		ATE STAR	TED:					CHMARK BEINO ATED AT THE LID AVENUE UM: MSL (NGV	G A BRASS PLUG NORTHEAST CORN /D 29) ELEV	ON THE TOP OF CU VER OF 16TH STREET /ATION: 100.80	AND
					SIGNATL	JRE			SIGNATI	URE		≦ 	ATE COMP	LETED:				HOR CA DETI	IZONTAL CONT COORDINATE S ERMINED LOCA	ROL: BASIS OF B SYSTEM, CCS83, Z LLY BY THE CEN1	EARINGS FOR THIS S ONE 6, 2011.00 EPO FERLINE OF ORANGE	URVEY IS THE CH, AS STREET AS
																		SHO	WN ON MAP	40. 8840 HAVING	A BEARING N 18-59'	30" W
DIG DIAL BEFORE YOU DIG			NG			GROUNDCOVER			(iz)					\bigcirc		SHRUBS & SUC				IREES .		
TWO WORKING DAYS BEFORE YOU DIG	SEN. SER.	SAL. SPA.	LAN. NG.	KUR. GC.	BAC. PIL.	RS / VINES	VER. LIL.	SAL. POZ.	ROS. ICE.	MUH. RIG.	LOM. LON.	HES. PAR.	FUR. GIG.	BOU. GRA.	AGA. ATT.		WAS. FIL.	PLA. RAC.	CIT. SPP.	ARB. UNE.	CALLOUT SYMBOL	MATERIA
WATER EFFICIENT LANDSCA " I AM FAMILIAR WITH THE REQUIREMENT NATIONAL CITY'S LANDSCAPE MANUAL AN THIS PLAN IN COMPLIANCE WITH THOSE F WITH ALL REQUIREMENTS WHEN SUBMIT IMPLEMENTS THOSE REGULATIONS TO PR SIGNATURE	SENECIO SERPENS	SALVIA SPATHACEA	LANTANA 'NEW GOLD'	KURAPIA GROUND COVER	BACCHARIS PILULARIS 'PIGEON POINT'		VERBENA LILACINA 'DE LA MINA'	SALVIA 'POZO BLUE'	ROSA ICEBERG	MUHLENBERGIA RIGENS	LOMANDRA LONGIFOLIA 'PLATINUM BEAUTY'	HESPERALOE PARVIFOLIA	FURCREA GIGANTICA VARIEGATA	BOUTELOUA GRACILIS 'BLONDE AMBITION'	AGAVE ATTENOATA ALOE VERA		WASHINGTONIA FILIBUSTA	PLATANUS RACEMOSA	CITRUS 'MYERS LEMON'	ARBUTUS UNEDO 'MARINA'	BOTANICAL NAME	LEGEND
APE DECLARATION S FOR LANDSCAPE AND IRRIGATION PLANS (ND WATER EFFICIENT LANDSCAPE REGULATI REGULATIONS AND THE LANDSCAPE MANUAL TING CONSTRUCTION DOCUMENTS. I CERTIF ROVIDE EFFICIENT USE OF WATER."	BLUE CHALKSTICKS	HUMMINGBIRD SAGE	NEW GOLD LANTANA	KURAPIA			PURPLE CEDROS ISLAND VERBENA	POZO BLUE SAGE	ICEBERG ROSE	DEER GRASS	VARIEGATED DWARF MAT RUSH	RED YUCCA	VARIEGATED FALSE YUCCA	BLOND AMBITION BLUE GAMA GRASS	MEDICINAL ALOE		HYBRID FAN PALM	CALIFORNIA SYCAMORE	DWARF LEMON TREE	MARINA STRAWBERRY TREE	COMMON NAME	
CONTAINED IN THE IONS. I HAVE PREPA L AND AGREE TO CO Y THAT THE PLAN	4" POT	1 GAL.	1 GAL.	FLATS	1 GAL.		1 GAL	1 GAL	1 GAL	1 GAL	1 GAL	5 GAL.	5 GAL.	1 GAL.	1 GAL.	1.04	8' BTH	24" BOX.	24" BOX.	24" BOX.	SIZE	
CITY OF RED OMPLY	4" x 4"	6" X 8"	6" X 8"	SPREADING	6" X 8"		10" X 8"	10" X 8"	10" X 8"	10" X 8"	10" X 8"	12" x 12"	12" x 12"	8" X 7"	10 X 8 10" X 8"	10" V 8"	8' X 6'	8' X 4'	8' X 4'	8' X 4'	MINIMUM HEIGHT AND SPREAD	
AL LANDSCAPE AREA MINUS PAVING: 21,389 SQ.FT DSCAPE AREA: 5,210 SQ.FT.	L	L	L	L	L		L	L	M	L	L	L	L	L	L		М	REGULAR	REGULAR	L	IRRIGATION DEMANDS H - HIGH M - MODERATE L - LOW N - RAINFALL ONLY	
(25%)	FULL CLUMPS, GOOD COLOR,	FULL & BUSHY TO GROUND, GOOD C	FULL & BUSHY TO GROUND, GOOD C	FULL FLATS, GOOD COLOR. PLANT 12	FULL & BUSHY TO GROUND, GOOD C		FULL & BUSHY TO GROUND, GOOD C	FULL & BUSHY TO GROUND, GOOD C	FULL & BUSHY TO GROUND, GOOD C	FULL CLUMPS, FULL FORM, GOOD CO	FULL CLUMPS, GOOD COLOR, VIGOR	FULL CLUMPS, GOOD COLOR, VIGOR	FULL SWORDS, GOOD COLOR, VIGOF	FULL CLUMPS, GOOD COLOR, VIGOR	FULL CLUMPS, GOOD COLOR, VIGOR		STRAIGHT TRUNK; FULL HEAD, GOO	STANDARD & STRAIGHT TRUNK; GOO STAKE	STANDARD & STRAIGHT TRUNK; GOO STAKE	STANDARD & STRAIGHT TRUNK; GOO STAKE	REMARKS	
PLANS REVIEW		OLOR.	OLOR.	2" O.C.			OLOR.	OLOR.	OLOR.	DLOR, VIGOROUS	OUS	OUS	ROUS	OUS	.003 .0US	0.05	D FORM	DD CALIPER,	DD CALIPER,	DD CALIPER,		

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UNDERGROUND SERVICE ALERT

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PLANTING NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND UTILITIES.

- 2. THE LANDSCAPE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS AND STRUCTURES. LANDSCAPE AREAS SHALL BE FINISH GRADED AT A MINIMUM OF 2%.
- 3. LANDSCAPE AREAS SHALL BE FINISH GRADED TO REMOVE ROCKS ONE INCH AND LARGER AND EXCESS SOIL. CONTRACTOR SHALL STOCKPILE EXCESS SOIL AND HAUL AWAY AT END OF PROJECT.
- 4. FINISH SOIL SHALL BE 4 INCHES BELOW TOP OF PAVING IN SHRUB AND GROUNDCOVER AREAS AND 1 INCH BELOW TOP OF PAVING IN LAWN AREAS.
- 5. THE RECOMMENDATIONS OF THE SOILS REPORT FOR AMENDING SOIL SHALL SUPERSEDE THE RECOMMENDATIONS LISTED IN THE SPECIFICATIONS. CONTRACTOR SHALL SUBMIT AN AGRICULTURAL SUITABILITY AND FERTILITY ANALYSIS OF REPRESENTATIVE SOIL SAMPLES TO THE LANDSCAPE ARCHITECT AND/OR OWNER, OR OWNER'S REPRESENTATIVE PRIOR TO ANY PLANTING WORK.
- 6. ALL PLANT MATERIAL SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT AND/OR OWNER OR OWNER'S REPRESENTATIVE PRIOR TO PLANTING. ALL PLANT MATERIAL NOT APPROVED SHALL BE REMOVED FROM THE SITE.
- 7. PLACEMENT OF PLANT MATERIAL SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT AND/OR OWNER OR OWNER'S REPRESENTATIVE PRIOR TO EXCAVATION FOR HOLES.
- TREES SHALL BE LOCATED A MINIMUM OF 5 FEET FROM STRUCTURES. 8. CENTER OF SHRUBS SHALL BE LOCATED A MINIMUM AND UNIFORM DISTANCE OF 36 INCHES FROM WALLS AND CONCRETE IMPROVEMENTS. GROUNDCOVER SHALL BE LOCATED A MINIMUM AND UNIFORM DISTANCE OF 24 INCHES FROM WALLS AND CONCRETE IMPROVEMENTS. LOCATION TO BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO PLANTING.
- 9. LOCATE AND ALIGN DOUBLE STAKES FOR TREES PERPENDICULAR TO PREVAILING WINDS.
- 10. PLACEA 3 INCH LAYER OF BARK MULCH IN SHRUB AND GROUNDCOVER AREAS UNLESS OTHERWISE NOTED ON LANDSCAPE CONSTRUCTION PLAN. BARK SHALL BE PER SHEET L1.1. DO NOT PLACE BARK MULCH ON SLOPES GREATER THAN THREE TO ONE (3:1).
- 11. THE MAINTENANCE PERIOD WILL BEGIN ONLY UPON ACCEPTANCE IN WRITING BY THE LANDSCAPE ARCHITECT AND THE OWNER.
- 12. QUANTITIES SHOWN ON PLANTING PLAN ARE FOR THE CONVENIENCE OF THE CONTRACTOR. PLANT SYMBOLS INDICATED SUPERSEDE QUANTITIES SHOWN.
- 13. CONTRACTOR SHALL INSTALL ROOT BARRIERS FOR ALL TREES WHICH ARE LOCATED WITHIN 5 FEET OF ANY HARDSCAPE, PAVEMENT OR CURB. EXTEND 8 FEET FROM CENTERLINE OF TREE IN BOTH DIRECTIONS ALONG CONCRETE IMPROVEMENT (A SINGLE LENGTH OF ROOTGUARD FOR A SINGLE TREE WOULD BE 16 FEET). ROOT BARRIERS SHALL NOT BE WRAPPED ROOTBALL.

MIN. TREE / IMPROVEMENT SEPARATION DISTANCE:

TRAFFIC SIGNAL / STOP SIGN - 20 FEET

- UNDERGROUND UTILITY LINES 5 FEET
- ABOVE GROUND UTILITY STRUCTURES 10 FEET
- SEWERS 10 FEET DRIVEWAYS - 10 FEET

INTERSECTIONS (INTERSECTING CURB LINES OF TWO STREETS) - 25 FEET

MAINTENANCE:

ALL REQUIRED LANDSCAPE AREAS SHALL BE MAINTAINED BY THE OWNER. LANDSCAPE AREAS SHALL BE FREE OF DEBRIS AND LITTER AND ALL PLANT MATERIAL SHALL BE MAINTAINED IN A HEALTHY GROWING CONDITION

E	11		simon.
С	11		landscape architecture 619.370.1080
С	11	DECLARATION OF RESPONSIBLE CHARGE I HEREBY DECLARE THAT I AM THE LANDSCAPE ARCHITECT OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THIS PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONAL	E CALIFORNIA
E	11	CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK OF THESE PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF NATIONAL CITY IS CONFINED TO A REVIEW ONLY AND DOES NOT	PLANS FOR THE IMPROVEMENTS OF:
		RELIEVE ME AS ENGINEER OF WORK OF MY RESPONSIBILITIES FOR THE PROJECT DESIGN.	1628 ORANGE STREET
ED BY:		_	LANDSCAPE CONSTRUCTION PLAN
		(KYLE SIMON, LLA 6290) DATE	CITY OF NATIONAL CITY
XXXXX ER TMENT	DATE	$\begin{array}{c} \text{SUBALVEE} \\ SUBALVE$	

ENCINEERING DEPARTMENT			┢		CONSTRUCTION SURVEYOR	GEOTECHNICAL OF RECORD	CONSTRUCTION RECORDS	SURVEYOR: METROPOLITAN MAPPING
	┨		╉					BENCHMARK: CITY OF NATIONAL CITY VERTICAL CONTROL
AS-BUILT	B	Y APPRO	VED DA	ATE ·		NAME JUERISI AGS	DATE STARTED:	BENCHMARK BEING A BRASS PLUG ON THE TOP OF CURB
								LUCATED AT THE NURTHEAST CURINER OF TOTA STREET AND EUCLID AVENUE
REVISIONS							INSPECTOR:	DATUM: MSL (NGVD 29) ELEVATION: 100.80
				Ì				HORIZONTAL CONTROL: BASIS OF BEARINGS FOR THIS SURVEY IS THE
					SIGNATURE	SIGNATURE	DATE COMPLETED:	DETERMINED LOCALLY BY THE CENTERLINE OF ORANGE STREET AS
	_		_	_				SHOWN ON MAP NO. 8840 HAVING A BEARING N 18'59'30" W
INTERSECTIONS. 25 FEET DRIVEWAYS. 10 FEET SEWER LATERALS. 10 FEET FRONT OF TRAFFIC SIGNAL, STOP SIGN. 20 FEET BACK OF TRAFFIC SIGNAL, STOP SIGN. 10 FEET UNDERGROUND UTILITY LINES. 5 FEET APUBLIC SERVICE ALERT 10 FEET	MINIMUM STREET TREE SEPARATION DISTANCES:	LANDSC SCALE: 1/16" =			$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$\underbrace{12}_{1 \text{ GAL}} \text{ALO. VER.}$	$ \begin{array}{c c} & 1 \\ \hline & 1 \\ \hline & 24" BOX \end{array} $	
		<u>ארע 1</u> '- 0"	200					

SHEET <u>10</u> of <u>12</u> Sheets XXXXX - 10 - D

ALC: N

LIC.EXP. 7/30/2023

PLANS REVIEWED BY: _ RCE# XXXXX DEPUTY CITY ENGINEER ENGINEERING DEPARTMENT

LIC.EXP. 7/30/2023

SURVEYOR: METROPOLITAN MAPPING	BENCHMARK: CITY OF NATIONAL CITY VERTICAL CONTROL	- LOCATED AT THE NORTHEAST CORNER OF 16TH STREET AND	DATUM: MSL (NGVD 29) ELEVATION: 100.80	HORIZONTAL CONTROL: BASIS OF BEARINGS FOR THIS SURVEY IS THE	— CA COURDINATE SYSTEM, CCS83, ZUNE 6, ZUTT.00 EPOCH, AS — DETERMINED LOCALLY BY THE CENTERLINE OF ORANGE STREET AS	SHOWN ON MAP NO. 8840 HAVING A BEARING N 18'59'30" W	
CONSTRUCTION RECORDS		DAIE SIAKIED:	INICDECTOD.		DATE COMPLETED:		
GEOTECHNICAL OF RECORD	PAUL J. DERISI AGS	NAME COMPANY			SIGNATURE		⊕ <u>UP LIGHT (5)</u> (TYP. SYM.) Ø
CONSTRUCTION SURVEYOR		NAME COMPANY			SIGNATURE		POLE LIGHT (3) (TYP. SYM.)
							LANDSCAP
							SCALE: 1/16" = 1' - 0"
ENGINEERING DEPARTMENT		A3-D0L-	REVISIONS				DIAL BEFORE YOU DIG TOLL FREE TOLL FREE UNBLIC SERVICE BY UNBLIC SERVICE BY UNBLIC SERVICE BIT NOT TOLL FREE TOLL FREE TOLL FREE NOT TOLL FREE TOLL FREE TOLL FREE TOLL FREE TOLL SERVICE BY UNDERGROUND SERVICE ALERT

LOW VOLTAGE LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER / MODEL	COLOR / FINISHES / REMARKS	DETAIL	SHEET
¢	UP LIGHT	FXLUMINAIRE / FB-1LED-BZ	BRONZE / GRANDE RISER / 1 LED LUMENS: 151 WATTAGE: 4	INSTALL MANUFA	PER CTURER
•	PATHWAY LIGHT	FXLUMINAIRE / CCALDETA-FB-G-1LED-18RA	FLAT BLACK / GRANDE RISER / 1 LED / 18" RISER / WITH LONG SLOT SPIKE LUMENS: 44 WATTAGE: 2	INSTALL MANUFA	PER CTURER

LINE VOLTAGE LEGEND

SYMBOL	DESCRIPTION	MANUFACTURER / MODEL	COLOR / FINISHES / REMARKS	DETAIL	SHEET			
	POLE LIGHT	GLEON / GALLEON LED	GLEON-SA1A-730-1-SL4-EA-BZ CONFIRM VOLTAGE WITH ELECTRICIAN, PROVIDE PHOTOCONTROLS AND DIMMING OPERATION	INSTALL MANUFA	PER CTURER			

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S P C				simo landscape a	n. architecture 619.370.1080
	E	DECLARATION OF RESPONSIBLE	CHARGE		
(IN FEET) 0 8 16 16 INCH = 1 F ⁻	32 T	I HEREBY DECLARE THAT I AM THE LANDSCAPE A WORK FOR THIS PROJECT, THAT I HAVE EXERCISE CHARGE OVER THE DESIGN OF THIS PROJECT AS IN SECTION 6703 OF THE BUSINESS AND PROFES CODE, AND THAT THE DESIGN IS CONSISTENT WIT CURRENT STANDARDS.	RCHITECT OF D RESPONSIBLE DEFINED SSIONAL H	CALIFO NATION 13 INCORPO	ORNIA
		I UNDERSTAND THAT THE CHECK OF THESE PROJI DRAWINGS AND SPECIFICATIONS BY THE CITY OF I	ECT NATIONAL	PLANS FOR THE IMPROVEMENTS OF:	
		RELIEVE ME AS ENGINEER OF WORK OF MY RESPONSIBILITIES FOR THE PROJECT DESIGN.	NOT	1628 ORANO	GE STREET
IEWED BY:				LANDSCAPE COM	NSTRUCTION PLAN
		(KYLE SIMON, LLA 6290)	DATE	CITY OF NAT	IONAL CITY
CE# XXXXX GINEER	DATE	NO. 6290		RCE# XXXXX DIRECTOR PUBLIC WORKS/CITY	DATE ENGINEER
TANTIMENT	DATE			PROJ. #XXXX-XXXX	NAD 83 HORIZ. DATUM
		LIC.EXP. 7/30/2023		SHEET 12 OF 12 SHEETS	XXXXX - 12 - D