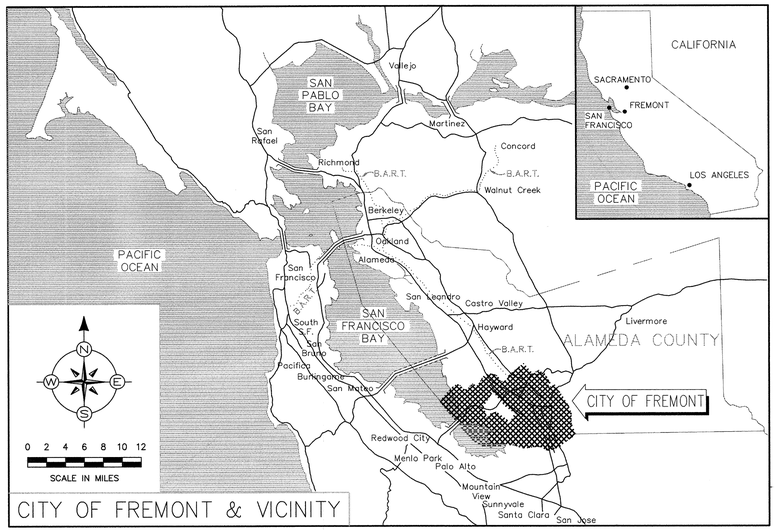
CITY OF FREMONT

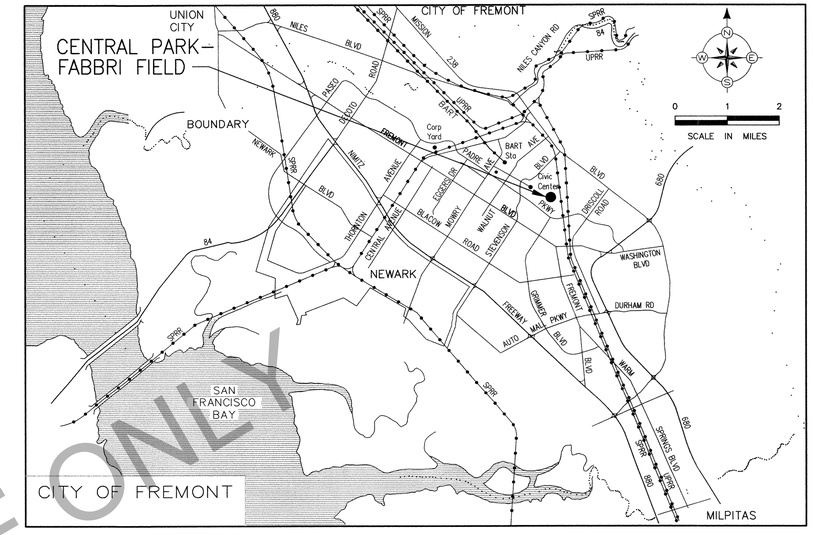
ALAMEDA COUNTY, CALIFORNIA

CENTRAL PARK "ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

8718 (PWC)



CITY OF FREMONT & VICINITY



CITY OF FREMONT

ABBREVIATIONS

(ADDITIONAL ABBREVIATIONS MAY BE LOCATED ON SPECIFIC SHEETS)

AB/ASB	AGGREGATE BASE/SUBBASE	IRR	IRRIGATION SPRINKLER HEADS
AC	ASPHALT CONCRETE	LOW	LIMIT OF WORK
BC	BOTTOM OF CURB	LT	LEFT
BLDG	BUILDING	MAX	MAXIMUM
BM	BENCH MARK	MIN	MINIMUM
BMP	BEST MANAGEMENT PRACTICES	MH	MANHOLE–UNKNOWN OWNER
BW	BOTTOM OF WALL	MON	MONUMENT
BPU	BACKFLOW PREVENTER UNIT	MOW	MOWSTRIP
BOW	BACK OF WALL	(N)	NEW
CB	CATCH BASIN	O.C.	ON CENTER
CIP	CAST IN PLACE	PB/HH	PULLBOX / HAND HOLE
CLF	CHAIN LINK	PCC	PORTLAND CEMENT CONCRETE
CL	CENTERLINE	PLTR	PLANTER
CLR	CLEAR	PP	POWER POLE
CO	CLEANOUT	QCV	QUICK COUPLER VALVE
CONC	CONCRETE	R	RADIUS
CONF	CONFORM	RCP	REINFORCED CONCRETE PIPE
COTG	CLEANOUT TO GRADE	ROW	RIGHT OF WAY
CP	CONCRETE PAD	RT	RIGHT
DG	DECOMPOSED GRANITE	RW	RETAINING WALL
DI	DRAINAGE INLET	SC	SAW CUT
DWY	DRIVEWAY	SG	SUBGRADE/TOP OF SUBGRADE
DWTC	DRIVEWAY TOP OF CURB		
(E)	EXISTING	SD	STORM DRAIN
EM	ELECTRICAL METER	SDMH	STORM DRAIN MANHOLE
EP	EDGE OF PAVEMENT	SHR	SHRUB
EPB	ELECTRICAL PULL BOX	SL	STREET LIGHT/ELECTROLIER
EQ	EQUAL	SLPB	STREET LIGHT PULL BOX
EW	EDGE OF WALK	SP	SPOT ELEVATIONS
FCE	FENCE	SS	SANITARY SEWER
FG	FINISHED GRADE	SSMH	SANITARY SEWER MANHOLE
FL	FLOWLINE	SW	SIDEWALK
FP	FENCE POST	TB	TOP OF SLOPE
FS	FINISHED SURFACE	TC	TOP OF CURB
FTF	FACE TO FACE	TEMP	TEMPORARY
GB	GRADE BREAK	TG	TOP OF GRATE
GM	GAS METER	T.	TREE
GR	GRATE	TRF	TRAFFIC
GND	GROUND	TS	TOE OF SLOPE
GV	GAS VALVE	TVB	TELEVISION/CABLE BOX
HVCAB	HIGH VOLTAGE CABINET	TW	TOP OF WALL
HW	HEADWALL	TYP	TYPICAL
ICC	IRRIGATION CONTROL CABINET	VLT	VAULT
INV	INVERT	WM	WATER METER
IRCV	IRRIGATION REMOTE CONTROL VALVE	WV	WATER VALVE

DEFERRED SUBMITTALS: 1

1. THE FIRE SPRINKLER DRAWINGS SHALL BE A DEFERRED SUBMITTAL.

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

CALIFORNIA GREEN BUILDING STANDARDS APPLICABLE SECTIONS

5.106.1	STORM WATER POLLUTION PREVENTION
5.106.4	BICYCLE PARKING
5.106.5.2	DESIGNATED PARKING FOR LEV/ FEV/ VANPOOL
5.106.8	LIGHT POLLUTION REDUCTION
5.106.10	GRADING AND PAVING
5.303.2	WATER EFFICIENCY (20% REDUCTION)
5.303.4	WASTEWATER REDUCTION
5.303.6	PLUMBING FIXTURES AND FITTINGS
5.407.1	WEATHER PROTECTION
5.407.2	MOISTURE CONTROL
5.408.1	CONSTRUCTION WASTE MANAGEMENT
5.410.1	RECYCLING BY OCCUPANTS
5.504.4	FINISH MATERIAL POLLUTANT CONTROL

1

PLUMBING FIXTURE CALCULATIONS

MEN'S FIXTURES	FIXTURE COUNT	MAX. USERS
TOILETS	2	200
URINALS	2	200
LAVATORIES	2	400

WOMEN'S FIXTURES	FIXTURE COUNT	MAX. USERS
TOILETS	4	200
LAVATORIES	2	400

USERS	MIN. USERS SERVED
MEN	200
WOMEN	200

RESTROOM REPLACEMENT DATA

EXISTING RESTROOMS	PROPOSED RESTROOMS
TOILETS = 4	TOILETS = 6
LAVATORIES = 2	LAVATORIES = 4

J-NUMBER REQUIREMENTS

1. THE J-NUMBER AS REQUIRED BY BAAQMD SHALL BE DEFERRED UNTIL BIDS ARE OPENED AND THE CONTRACTOR IS AWARDED THE CONTRACT.
2. CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE J-NUMBER.

BENCH MARK AND CONTROL POINT DESCRIPTIONS

A STANDARD 2½" DIAMETER CITY OF FREMONT BRASS DISK STAMPED "F191" SET IN THE CENTER OF A 10 FOOT WIDE CONCRETE SIDEWALK. THE DISK IS ABOUT 1 FOOT FROM THE PRESENT, (TO BE EXTEND IN FUTURE), END OF THE SIDEWALK THAT PASSES BETWEEN SOFTBALL FIELDS NOS. 1 AND 2, IS OPPOSITE THE BLEACHERS FOR FIELD NUMBER 2 AND IS ABOUT 205 FEET SW/LY OF THE RESTROOM NEAREST THE BASEBALL FIELDS.
ELEVATION = 55.590

Approved By: Khandan Bahmani, Acting City Engineer

Reviewed By: Frank Nava, Acting Urban Landscape Mgr

CODE ANALYSIS

PARTIAL LIST OF APPLICABLE CODES:	EDITION	CITY ORDINANCE
CALIFORNIA BUILDING CODE (CBC)	2013	#16–2013
CALIFORNIA ELECTRICAL CODE (CEC)	2013	#16–2013
CALIFORNIA MECHANICAL CODE (CMC)	2013	#16–2013
CALIFORNIA PLUMBING CODE (CPC)	2013	#16–2013
CALIFORNIA FIRE CODE (CFC)	2013	#17–2013
CALIFORNIA RESIDENTIAL CODE (CRC)	2013	#16–2013
CALIFORNIA GREEN BUILDING STANDARDS	2013	#16–2013
WILDLAND URBAN INTERFACE AREA		#33–2007
ENERGY EFFICIENCY STANDARDS	2008 (TITLE 24)	

1

CONSTRUCTION TYPE:	
SPRINKLERED:	TYPE V–B
OCCUPANCY GROUP:	YES
ALLOWABLE BLDG. AREA:	U
BASIC ALLOWABLE AREA:	
INCREASE FOR FRONTAGE	5,500 SF
INCREASE FOR SPRINKLERS	3,850 SF
TOTAL ALLOWABLE AREA	16,500 SF
	25,580 SF
ACTUAL BUILDING AREA:	747 SF
OCCUPANT LOAD (MAXIMUM CAPACITY)	
MENS ROOM	
WOMENS ROOM	6
TOTAL OCCUPANT LOAD	6
EXITS REQUIRED (1 PER SEX)	12
EXITS PROVIDED (1 PER SEX)	2
EXIT WIDTH REQUIRED (EACH)	2
EXIT WIDTH PROVIDED (EACH)	36 OM/ (MIN.) 36"
PARKING REQUIRED:	
UTILITY (3.3/1,000 SF)	
PARKING PROVIDED	3 STALLS

1

THE EXISTING FOOD COURT AND NEW ANCILLARY RESTROOM FACILITY ARE CONSIDERED PORTIONS OF ONE BUILDING IN COMPLIANCE WITH CBC SECTION 503.L1.2

SCHEDULE OF DRAWINGS 1

SHEET NO.	SHEET TITLE	DESCRIPTION
1	CS	COVER SHEET
2	C1.0	NOTES SHEET
3	C2.0	DEMOLITION PLAN
4	C3.0	PAVING & DIMENSIONING PLAN
5	C3.1	ACCESSIBILITY/ACCESS PLAN
6	C4.0	GRADING PLAN
7	C5.0	UTILITY PLAN
8	C6.0	SITE DETAILS
9	C7.0	EROSION CONTROL PLAN
10	C8.0	CLEAN BAY BLUE PRINT
11	A1.0	ARCHITECTURAL NOTES
12	A1.1	ARCHITECTURAL NOTES
13	A1.2	CALIFORNIA GREEN CODE CHECKLIST
14	A1.3	CALIFORNIA GREEN CODE CHECKLIST
15	A2.0	FLOOR & REFLECTED CEILING PLANS
16	A3.0	ROOF PLAN & BUILDING SECTIONS
17	A3.1	WALL SECTIONS & DETAILS
18	A4.0	EXTERIOR ELEVATIONS
19	A5.0	INTERIOR ELEVATIONS
20	A6.0	ACCESSIBILITY STANDARDS
21	S1.0	STRUCTURAL NOTES
22	S2.0	FOUNDATION & ROOF FRAMING PLANS
23	S3.0	FOUNDATION–FRAMING DETAILS
24	S3.1	FOUNDATION–FRAMING DETAILS
25	E1.0	ELECTRICAL SYMBOLS & SPECIFICATIONS
26	E2.0	ELECTRICAL PLAN
27	E3.0	SINGLE LINE DIAGRAM & SCHEDULES
28	E4.0	TITLE 24 COMPLIANCE FORMS
29	P0.0	PLUMBING GENERAL NOTES, SYMBOLS, ABBREVIATIONS
30	P1.0	PLUMBING SCHEDULES
31	P2.0	SANITARY SEWER PLAN
32	P2.1	PLUMBING FLOOR PLAN
33	L1.0	IRRIGATION PLAN
34	L2.0	PLANTING PLAN
35	L3.0	LANDSCAPE DETAILS
36	L3.1	LANDSCAPE DETAILS
37	L3.2	LANDSCAPE DETAILS

REGISTERED PROFESSIONAL ENGINEER
RAYMOND J. SCHNEIDER
No. 62498
Exp. 09/30/19
CIVIL
STATE OF CALIFORNIA

DATE SIGNED: 06/01/17

No.	Date	Revision	By
1	09/16/15	FIRST PLAN CHECK	RJS
2	10/17/16	CYCLE 3 PLAN CHECK	RJS
3	05/10/17	CYCLE 4 PLAN CHECK	MWK
4	10/31/17	RE-BID	
5			

CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

COVER SHEET

CITY OF Fremont

COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed — Associate Land. Archt.~~ | Date | Recommended — Project Manager | Date 6/8/17

Scale:	NONE
Designed By:	PJS
Drawn By:	RJN
Date:	10/17/2014
Project No.:	8718 (PWC)
CAD File:	12203-CS.dwg
SHEET 1	OF 37

CS

FOR CITY COUNCIL USE ONLY

GENERAL NOTES:

1. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE CITY OF FREMONT STANDARD DETAILS AND SPECIFICATIONS.

2. AN ENCROACHMENT PERMIT IS NEEDED FOR ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY OR EASEMENTS.

3. (Revision 1) APPROVAL OF THESE PLANS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR THE CORRECTION OF MISTAKES, ERRORS OR OMISSIONS.

4. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR WORKING CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL NOT BE LIMITED TO NORMAL WORKING HOURS. WORK SHALL NOT BEGIN UNTIL ADEQUATE TEMPORARY BARRICADES, BARRIERS, FENCES, WARNING, AND CONTROL DEVICES ARE IN PLACE.

5. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ANY EXISTING IMPROVEMENTS SUCH AS CURB AND GUTTER, PAVEMENT AND FENCES, OR UNDERGROUND UTILITIES DAMAGED BY THE CONTRACTOR OR THEIR SUBCONTRACTORS OR MATERIAL SUPPLIERS, TO THE SATISFACTION OF THE CITY ENGINEER, AND OWNER OF THE DAMAGED EXISTING IMPROVEMENTS.

6. EXISTING INTERCONNECT CABLE AND CONDUIT SHALL NOT BE DISTURBED AND SHALL REMAIN OPERATIONAL. IF DAMAGED, THE CONTRACTOR SHALL REPAIR CONDUIT AND REPLACE CABLE (FROM CABINET TO CABINET WITHOUT SPLICING) AT THE CONTRACTOR'S EXPENSE.

7. EXISTING STRIPING, MARKINGS, PAVEMENT MARKERS, LANDSCAPING, IRRIGATION, CURBS, SIDEWALK, ETC. DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN KIND AT NO ADDITIONAL COST TO THE CITY.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR REQUIRED INSPECTIONS AND SHALL PROVIDE NOTIFICATION 48 HOURS IN ADVANCE TO THE CITY INSPECTOR, CITY ENGINEER, SOILS ENGINEER, AND ANY OTHER REQUIRED PUBLIC AGENCY.

9. THE CONTRACTOR SHALL MAINTAIN INGRESS AND EGRESS OF PRIVATE PROPERTY ADJACENT TO THE WORK THROUGHOUT THE PERIOD OF CONSTRUCTION.

10. ALL INFRASTRUCTURE INCLUDING BUT NOT LIMITED TO TREES, BOXES, VALVES, LATERALS, INLETS, CLEANOUTS, MAINTENANCE HOLES, ELECTROLIERS, PIPING, IRRIGATION, AND JOINT TRENCH SWEEPS SHALL BE STAKED TO AVOID CONFLICTS DURING CONSTRUCTION.

11. CONTRACTOR TO SUBMIT TO CITY TRAFFIC CONTROL PLAN, DESIGNED AND STAMPED BY A REGISTERED TRAFFIC OR CIVIL ENGINEER IN THE STATE OF CALIFORNIA TEN DAYS PRIOR TO LANE CLOSURE IN ACCORDANCE WITH THE LATEST ADDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND STANDARD PLANS.

12. CONSTRUCTION HOURS WILL BE LIMITED IN ACCORDANCE WITH SECTION 8-2205 OF THE FREMONT MUNICIPAL CODE TO THE FOLLOWING:

    7 A.M. TO 5 P.M. MONDAY THROUGH FRIDAY
    9 A.M. TO 5 P.M. SATURDAY AND HOLIDAY, WITH WRITTEN APPROVAL FROM CITY ENGINEER.
    NO CONSTRUCTION ACTIVITY ALLOWED SUNDAY OR LEGAL HOLIDAYS.

    CONSTRUCTION HOURS WITHIN 500' OF RESIDENCES, LODGING FACILITIES, NURSING HOMES, OR INPATIENT HOSPITALS SHALL BE PLACED ON AN ALL-WEATHER NOTICE BOARD (FORMAT AND CONTENT SPECIFIED BY CITY) CONSPICUOUSLY PLACED ADJACENT TO THE MOST VISIBLE RIGHT-OF-WAY FOR THE DURATION OF THE CONSTRUCTION ACTIVITY AND WILL BE LIMITED IN ACCORDANCE WITH SECTION 8-2205 OF THE FREMONT MUNICIPAL CODE TO THE FOLLOWING:

    7 A.M. TO 5 P.M. MONDAY THROUGH FRIDAY
    9 A.M. TO 5 P.M. SATURDAY AND HOLIDAY, WITH WRITTEN APPROVAL FROM CITY ENGINEER.
    NO CONSTRUCTION ACTIVITY ALLOWED SUNDAY

    CONSTRUCTION HOURS NOT WITHIN 500' OF RESIDENCES, LODGING FACILITIES, NURSING HOMES, OR INPATIENT HOSPITALS SHALL BE PLACED ON AN ALL-WEATHER NOTICE BOARD (FORMAT AND CONTENT SPECIFIED BY CITY) CONSPICUOUSLY PLACED ADJACENT TO THE MOST VISIBLE RIGHT-OF-WAY FOR THE DURATION OF THE CONSTRUCTION ACTIVITY AND WILL BE LIMITED IN ACCORDANCE WITH SECTION 8-2205 OF THE FREMONT MUNICIPAL CODE TO THE FOLLOWING:

    6 A.M. TO 10 P.M. MONDAY THROUGH FRIDAY
    8 A.M. TO 8 P.M. WEEKEND AND HOLIDAY, WITH WRITTEN APPROVAL FROM CITY ENGINEER.

    FURTHERMORE, LOUD NOISES NO GREATER THAN 86 DBA AT A DISTANCE OF 50 FEET SHALL NOT OCCUR BEFORE 8 A.M. ON WEEKDAYS AND NOT AT ALL ON WEEKENDS. THE HOURS OF CONSTRUCTION MAY BE MODIFIED BY THE COMMUNITY DEVELOPMENT DIRECTOR UPON A DETERMINATION THAT UNUSUALLY LOUD CONSTRUCTION ACTIVITIES ARE HAVING A SIGNIFICANT IMPACT ON THE NEIGHBORS. FAILURE TO COMPLY WITH THE ABOVE-DESCRIBED HOURS OF OPERATION MAY RESULT IN WITHHOLDING OF INSPECTIONS AND POSSIBLE CONSTRUCTION PROHIBITIONS, SUBJECT TO THE REVIEW AND APPROVAL OF THE CITY ENGINEER. A SIGN SHALL BE POSTED ON-SITE WITH THE HOURS OF OPERATION AND A TELEPHONE NUMBER OF THE PERSON TO BE CONTACTED IN THE EVENT OF ANY VIOLATIONS AND SHALL BE PURCHASED AT THE DEVELOPMENT SERVICE COUNTER.

13. PRIOR TO THE ISSUANCE OF ANY PERMIT FOR VERTICAL CONSTRUCTION, THE CONTRACTOR SHALL COMPLY WITH CALIFORNIA FIRE CODE ARTICLE 87, FIRE SAFETY DURING CONSTRUCTION, ALTERATION OR DEMOLITION OF A BUILDING.

14. PROVIDE REQUIRED FIRE FLOW (HYDRANTS) ON SITE PRIOR TO CONSTRUCTION OR STORAGE OF COMBUSTIBLE MATERIALS. FIRE HYDRANT JUMPER LINES MUST BE AT LEAST 6 INCHES IN DIAMETER. THIS MUST BE COMPLETED AND INSPECTED BEFORE ANY CONSTRUCTION OR MATERIAL STORAGE WILL BE ALLOWED. (UFC 903.2 & APPENDIX)

15. PRIOR TO MOVING ANY MATERIAL TO OR FROM THE SITE THE CONTRACTOR SHALL OBTAIN APPROVAL FOR HAUL ROUTE FROM THE CONSTRUCTION INSPECTOR. IF THE APPROVED HAUL ROUTE IS OFF OF THE CITY STANDARD TRUCK ROUTE, THE CONTRACTOR SHALL INFORM THE TRAFFIC UNIT OF THE POLICE DEPARTMENT AT (510) 290-6760. IF OVERSIZED VEHICLE IS TO BE USED, CONTACT THE TRANSPORTATION AND OPERATION DIVISION AT (510) 494-4713 FOR A REQUIRED TRANSPORTATION PERMIT.

16. SHOULD ANY HUMAN REMAINS OR HISTORICAL OR UNIQUE ARCHAEOLOGICAL RESOURCES BE DISCOVERED DURING CONSTRUCTION, THE PROVISIONS OF CEQA GUIDELINES, SECTION 15064.5.(E) AND (F) SHALL BE FOLLOWED TO REDUCE IMPACTS TO A NON-SIGNIFICANT LEVEL. IN THE EVENT OF DISCOVERY OF HUMAN REMAINS DURING MONITORING OR CONSTRUCTION, THERE SHALL BE NO FURTHER EXCAVATION OR DISTURBANCE OF THE SITE OR ANY NEARBY AREA REASONABLY SUSPECTED TO CONTAIN ADJACENT REMAINS. SPONSOR SHALL NOTIFY THE ALAMEDA COUNTY CORONER WHO SHALL MAKE A DETERMINATION AS TO WHETHER THE REMAINS ARE NATIVE AMERICAN. IF THE CORONER DETERMINES THAT THE REMAINS ARE NOT SUBJECT TO HIS OR HER AUTHORITY, S/HE SHALL NOTIFY THE NATIVE AMERICAN HERITAGE COMMISSION, WHO WILL ATTEMPT TO IDENTIFY DESCENDANTS OF THE DECEASED.

17. ALL STREET MONUMENTS AND/OR CORNER PIPES SHOWN ON THE PLANS AND/OR CONCURRENTLY RECORDED TRACT SHALL BE SET PRIOR TO ACCEPTANCE OF IMPROVEMENTS.

18. THE CONTRACTOR SHALL NOT DESTROY ANY PERMANENT SURVEY POINTS WITHOUT THE CONSENT OF THE CITY ENGINEER. ANY PERMANENT MONUMENTS OR POINTS DESTROYED SHALL BE REPLACED IN ACCORDANCE TO THE PROFESSIONAL LAND SURVEYOR'S ACT AT THE CONTRACTORS EXPENSE.

19. MYLAR COPY AND AN ELECTRONIC VERSION (.PDF AND .TIF ON DVD MEDIA) OF IMPROVEMENT PLANS REVISED TO REFLECT "RECORD DRAWINGS" CONDITIONS BY THE ENGINEER OF RECORD SHALL BE SUBMITTED TO CITY AND APPROVED BY THE CITY ENGINEER PRIOR TO FINAL ACCEPTANCE OF WORK.

20. IF THIS PROJECT IS AN ACCESSIBLE SITE, THE PROJECT SITE SHALL BE HANDICAPPED ACCESSIBLE IN COMPLIANCE WITH THE CITY OF FREMONT ADOPTED CODES AND ORDINANCES. THE ACCESSIBLE ROUTE OF TRAVEL BETWEEN APPLICABLE BUILDINGS, ACCESSIBLE SITE FACILITIES, AND PARKING AREAS ARE TO BE DESIGNED AND DETAILED PER CHAPTER 11A OF THE 2001 CALIFORNIA BUILDING CODE. PROVIDE ACCESSIBLE ROUTES OF TRAVEL WITH MAXIMUM 5% SLOPES IN DIRECTION OF TRAVEL AND MAXIMUM 2% CROSS SLOPES.

TREE PRESERVATION NOTES

1. CURRENT STANDARD DETAILS AT CITY ENGINEERING DIVISION SHALL PREVAIL.

2. REMOVAL OF EXISTING TREES WITHIN THE DEVELOPMENT IS SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT OF THE CITY OF FREMONT.

3. TREE PRESERVATION MEASURES MUST BE IN PLACE BEFORE CONSTRUCTION, DEMOLITION AND/OR GRADING ACTIVITIES COMMENCE. CITY OF FREMONT WILL STOP CONSTRUCTION IF TREE PRESERVATION MEASURES ARE NOT IN PLACE AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.

4. TREES CALLED OUT FOR PRESERVATION SHALL BE FENCED AT THE DRIPLINE. FENCING MAY OCCUR AT THE COMBINED DRIPLINES OF GROVES OF TREES. PLACE 3 INCH BARK MULCH BENEATH DRIPLINES OF TREES TO BE PRESERVED.

5. FENCING SHALL BE 6 FEET TALL CHAIN LINK FENCING WITH STEEL POSTS EMBEDDED IN THE GROUND.

6. NO GRADING SHALL OCCUR WITHIN THE DRIPLINES/FENCED AREA OF EXISTING TREES.

7. NO CONSTRUCTION MATERIALS OR CONSTRUCTION VEHICLES MAY BE STORED WITHIN THE DRIPLINES/FENCED AREA OF EXISTING TREES.

8. CONSTRUCTION VEHICLES OR MACHINERY MAY NOT PASS BETWEEN TWO OR MORE EXISTING TREES IDENTIFIED FOR PRESERVATION IF THEIR CANOPIES ARE WITHIN 10 FEET OF TOUCHING. ADDITIONAL FENCING MAY BE REQUIRED BY THE CITY OF FREMONT TO ENFORCE THIS.

9. THE CONTRACTOR IS REQUIRED TO HAVE AN ARBORIST CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA) ON SITE IF SITE CONSTRUCTION EFFORTS REQUIRE REMOVAL OF EXISTING ROOTS OR BRANCH PRUNING.

10. UNAUTHORIZED TREE REMOVAL IS SUBJECT TO REPLACEMENT EQUAL TO THE APPRAISED VALUE OF THE TREE LOST.

11. THE CONTRACTOR IS REQUIRED TO WATER, FERTILIZE AND ATTEND TO OTHER MAINTENANCE NEEDS OF EXISTING TREES TO MAINTAIN HEALTHY GROWTH THROUGHOUT THE CONSTRUCTION PERIOD. AN EARTH BERM MEASURING MINIMUM 6 FEET IN DIAMETER, AND 6 INCHES IN HEIGHT SHALL BE CONSTRUCTED AT THE BASE OF EACH TREE TO FUNCTION AS A TEMPORARY WATERING BASIN DURING THE CONSTRUCTION PERIOD. TREES SHALL BE WATERED ACCORDING TO WEATHER AND TREE SPECIES REQUIREMENTS.

12. IF TREES ARE BEING RELOCATED: RELOCATION OF EXISTING TREES SHALL OCCUR UNDER THE OBSERVATION AND DIRECTION OF A CERTIFIED ARBORIST APPROVED BY THE CITY OF FREMONT.

GRADING NOTES

1. ANY DISPOSAL SITE WITHIN THE CITY OF FREMONT FOR THE OFF-SITE HAUL DIRT MATERIALS OR SOURCE FOR THE IMPORT FILL WITHIN THE CITY OF FREMONT SHALL BE APPROVED BY THE CITY PRIOR TO THE COMMENCEMENT OF GRADING.

2. TO MINIMIZE AIR QUALITY IMPACTS OF GRADING AND CONSTRUCTION, THE FOLLOWING MITIGATION MEASURES SHALL BE INCORPORATED INTO THE PROJECT:

    A. DUST GENERATED ON THE PROJECT SITE SHALL BE CONTROLLED BY WATERING OR APPLYING APPROVED DUST PALLIATIVE ON ALL EXPOSED AREAS AT LEAST TWICE DAILY DURING EXCAVATION, AND ESPECIALLY DURING CLEARING AND GRADING OPERATIONS. ADDITIONAL WATERING ON WINDY OR HOT DAYS IS REQUIRED TO FURTHER REDUCE DUST EMISSIONS;

    B.THE CONTRACTOR IS ENCOURAGED TO USE RECLAIMED WATER GENERATED BY UNION SANITARY DISTRICT (USD) FOR CONSTRUCTION ACTIVITIES. FOR FURTHER INFORMATION, CONTACT USD AT (510) 477-7500.

    C. DURING CONSTRUCTION, ACTIVITIES INVOLVING EARTH MOVING OR TRAVEL ON UNPAVED SURFACES SHALL BE DISCONTINUED WHEN WIND SPEEDS EXCEED 20 M.P.H., TO PREVENT EXCESSIVE GENERATION OF DUST;

    D. PAVING SHALL BE COMPLETED AS SOON AS PRACTICABLE TO REDUCE THE TIME THAT BARE SURFACES AND SOILS ARE EXPOSED. IN AREAS WHERE CONSTRUCTION IS DELAYED FOR AN EXTENDED PERIOD OF TIME, THE GROUND SHALL BE RE-VEGETATED TO MINIMIZE THE GENERATION OF DUST;

    E.A PERSON SHALL BE DESIGNATED TO OVERSEE THE IMPLEMENTATION OF THE DUST CONTROL PROGRAM MENTIONED ABOVE.

3. GRADING OPERATIONS SHALL BE OBSERVED BY AN ENGINEER REGISTERED IN THE STATE OF CALIFORNIA TO DO SUCH WORK. CITY STAFF SHALL ASSUME INSPECTION RESPONSIBILITY FOR STREET GRADING AT A POINT SIX INCHES BELOW PLANNED SUBGRADE, SUBJECT TO THE REVIEW AND APPROVAL OF THE CITY ENGINEER.

EROSION & SEDIMENT CONTROL NOTES

1. THE DEVELOPER IS RESPONSIBLE FOR ENSURING THAT ALL CONTRACTORS AND SUBCONTRACTORS ARE AWARE OF ALL STORM WATER QUALITY MEASURES AND IMPLEMENT SUCH MEASURES. FAILURE TO COMPLY WITH THE APPROVED CONSTRUCTION BEST MANAGEMENT PRACTICES WILL RESULT IN THE ISSUANCE OF CORRECTION NOTICES, CITATIONS, AND/OR STOP ORDERS.

2. ANY VEHICLE OR EQUIPMENT WASHING/STEAM CLEANING MUST BE DONE AT AN APPROPRIATELY EQUIPPED FACILITY WHICH DRAINS TO THE SANITARY SEWER. OUTDOOR WASHING MUST BE MANAGED IN SUCH A WAY THAT THERE IS NO DISCHARGE OF SOAPS, SOLVENTS, CLEANING AGENTS OR OTHER POLLUTANTS TO THE STORM DRAINS. WASH WATER SHALL DISCHARGE TO THE SANITARY SEWER,SUBJECT TO REVIEW AND APPROVAL OF UNION SANITARY DISTRICT.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LITTER CONTROL AND SWEEPING OF ALL PAVED SURFACES DURING CONSTRUCTION.

4. THE FACILITIES SHOWN ON THIS PLAN ARE DESIGNED TO CONTROL EROSION AND SEDIMENT DURING THE RAINY SEASON, OCTOBER 1 TO APRIL 15. EROSION CONTROL MEASURES ARE TO BE FUNCTIONAL PRIOR TO OCTOBER 1ST OF ANY YEAR GRADING OPERATIONS HAVE LEFT AREAS UNPROTECTED FROM EROSION.

5. ALL ON-SITE STORM DRAINS SHALL BE CLEANED IMMEDIATELY BEFORE THE START OF THE RAINY SEASON BEGINNING ON OCTOBER 1ST EACH YEAR, SUBJECT TO THE REVIEW OF THE BUILDING/ENGINEERING INSPECTOR.

6. IF RAINY WEATHER BECOMES IMMINENT, GRADING OPERATIONS SHALL BE STOPPED AND EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO PROTECT DISTURBED AREAS.

7. DURING THE RAINY SEASON, ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT LADEN RUNOFF TO ANY STORM DRAIN SYSTEM.

8. CONSTRUCTION ENTRANCES SHALL CONSIST OF A MINIMUM 8" THICK LAYER OF 3"-4" FRACTURED STONE AGGREGATE UNLAID WITH GEOTEXTILE LINER FOR A MINIMUM DISTANCE OF 50 FEET, AND IS TO BE PROVIDED AT EACH VEHICLE ACCESS POINT TO EXISTING PAVED STREETS. THE DEPTH AND LENGTH OF AGGREGATE MAY NEED TO BE ADJUSTED IN THE FIELD TO ENSURE NO TRACKING OF SEDIMENT ONTO EXISTING PAVED STREETS. CONSTRUCTION ENTRANCES SHALL SLOPE AWAY FROM EXISTING PAVED STREETS.

9. INLETS NOT USED IN CONJUNCTION WITH EROSION CONTROL MEASURES ARE TO BE BLOCKED UNLESS THE AREA DRAINED IS UNDISTURBED OR STABILIZED.

10. BORROW AREAS AND TEMPORARY STOCKPILES SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTORL MEASURES TO THE SATISFACTION OF THE CITY ENGINEER.

11. NO STRAW BALES OR SILT FENCES SHALL BE USED AS EROSION CONTROL MEASURES. SILT FENCES MAY ONLY BE USED AS A PHYSICAL BARRIER TO PREVENT VEHICULAR AND PEDESTRIAN TRAFFIC FROM USING NON-APPROVED ACCESS POINTS (I.E.– ALONG RIGHT-OF-WAY).

12. ALL DISTURBED AREAS INCLUDING FLAT PADS ARE TO BE TREATED WITH STRAW AND TACKIFIER AT A RATE OF 2 TONS PER ACRE APPROXIMATELY 3 INCHES THICK, APPROVED EQUAL.

UTILITY NOTES

1. LOCATION OF EXISTING FACILITIES WERE TAKEN PARTIALLY FROM RECORDS AND MAY BE INCOMPLETE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL UTILITIES PRIOR TO ANY EXCAVATION OR TRENCHING IN THERE LOCALITY.

THE UTILITY AGENCIES IN THE CITY OF FREMONT ARE:

ALAMEDA COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
399 ELMHURST STREET
HAYWARD, CA 94545
PHONE: (510) 670-5429 (PERMIT)

ALAMEDA COUNTY WATER DISTRICT
43885 SOUTH GRIMMER BOULEVARD
FREMONT, CA 94537
PHONE: (510) 668-4200

A T & T
3475B N. FIRST ST., RM 200
SAN JOSE, CA 95134
PHONE: (408) 493-7237

COMCAST
8470 PARDEE ROAD
OAKLAND, CA 94621
PHONE: (510) 567-9213

PACIFIC GAS & ELECTRIC CO.
41800 BOSCELL ROAD
FREMONT, CA 94538
PHONE: (510) 683-3025

TIME WARNER TELECOM
1340 TREAT BLVD, SUITE 100
WALNUT CREEK, CA 94597
PHONE: (925) 953-7093

UNION SANITARY DISTRICT (USD)
5072 BENSON ROAD
UNION CITY, CA 94587-2508
PHONE: (510) 477-7500

XO COMMUNICATIONS
855 MISSION COURT
FREMONT, CA 94539
PHONE: (510) 580-6363

2. AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CALL THE UNDERGROUND SERVICE ALERT FOR UTILITY LOCATIONS. PHONE 1-800-227-2600.

3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL NECESSARY UTILITY RELOCATIONS WITH THE APPROPRIATE UTILITY COMPANY. UTILITY WORK WITHIN THE RIGHT-OF-WAY NOT INSTALLED BY THE CONTRACTOR REQUIRES SEPARATE PERMIT BY THE AGENCY PERFORMING THE WORK.

4. BUILDING PERMIT SHALL BE REQUIRED FOR CONSTRUCTION OF ALL PRIVATE UNDERGROUND STORM DRAIN LINES OUTSIDE THE PRIVATE VEHICLE ACCESS WAY, PRIVATE STREETS, EMERGENCY VEHICLE ACCESS EASEMENT, AND PUBLIC SERVICE EASEMENT.

5. ALL TRENCH BACKFILL BEYOND SHADING (6" ABOVE TOP OF PIPE) REQUIRED PER THE REGULATORY AGENCY SHALL CONSIST OF IMPORTED MATERIAL PER CITY OF FREMONT STANDARD DETAIL SD-28 AND CITY STANDARD SPECIFICATIONS.

6. PRIOR TO FINAL PREPARATION OF SUBGRADE AND PLACEMENT OF BASE MATERIAL, ALL UNDERGROUND UTILITY MAINS SHALL BE INSTALLED AND SERVICE CONNECTIONS STUBBED OUT BEYOND THE CURB TO THE POINT OF SERVICE CONNECTION. SERVICE FROM PUBLIC UTILITIES AND SANITARY SEWERS SHALL BE MADE AVAILABLE FOR EACH LOT IN SUCH A MANNER TO AVOID DISTURBING THE STREET PAVEMENT, CURB, GUTTER AND SIDEWALK.

7. SUBJECT TO THE APPROVAL OF THE CITY OF FREMONT, STANDARD FIRE HYDRANTS AND APPURTENANCES SHALL BE INSTALLED AT THE EXPENSE OF THE DEVELOPER WHERE SHOWN ON PLANS. ALL FIRE HYDRANTS SHALL BE PER CITY OF FREMONT CITY STANDARD DETAIL SD-34.

8. THE LOCATIONS OF ALL WATER AND SEWER LATERALS SHALL BE MARKED WITH THE LETTERS "W" AND "S" RESPECTIVELY ON THE FACE OF CURB AT EACH LATERAL.

9. FOR ALL CONDUITS TO BE ABANDONED ALL CONDUCTORS MUST BE REMOVED AND THE ENDS OF THE CONDUIT SHALL BE FILLED AND CAPPED.

10. ALL PRIVATE ABOVE-GROUND UTILITIES SHALL BE LOCATED OUTSIDE PUBLIC RIGHT-OF-WAY.

STORM DRAIN NOTES

1. ALL STORM DRAIN LINES WITHIN THE IN ALL PUBLIC AND PRIVATE RIGHT OF WAY AND STORM DRAIN EASEMENTS SHALL BE CONSTRUCTED OF RCP CLASS III, WITH RUBBER GASKETED JOINTS UNLESS OTHERWISE NOTED. TRANSITIONS SHALL OCCUR AT JUNCTION STRUCTURES. DIRECT RCP TO OTHER MATERIAL CONNECTIONS ARE NOT ALLOWED. ALL STORM DRAIN LINES GREATER THAN 42" DIAMETER SHALL BE DOUBLE RUBBER GASKETED. CONTRACTOR SHALL SUBMIT TO THE CITY OF FREMONT CERTIFICATES OF COMPLIANCE FOR RCP PIPE, DOUBLE RUBBER GASKETS, AND GROUT PROPOSED FOR PIPE JOINTS. ALL JOINTS SHALL BE WATER TIGHT AND ARE SUBJECT TO THE CITY ENGINEER'S APPROVAL.

2. ALL STORM DRAIN CATCH BASINS AND FIELD INLETS WITHIN THE PARK SHALL BE PER CITY STANDARD SD-22 UNLESS NOTED OTHERWISE. ALL CATCH BASINS AND FIELD INLETS SHALL BE CAST-IN-PLACE.

3. ALL PUBLIC AND PRIVATE STORM WATER INLETS SHALL BE STENCILED WITH THE PHRASE "NO DUMPING - DRAINS TO THE BAY." STENCILS MAY BE PURCHASED FROM THE CITY OF FREMONT ENVIRONMENTAL SERVICES DIVISION AT (510) 494-4570.

4. TELEVISING STORM DRAIN SYSTEM – AFTER PLACEMENT OF THE ROCK, THE STORM DRAIN SYSTEM, INCLUDING THE MAIN LINE, LATERALS AND INTERIORS OF STORM STRUCTURES IN ALL PUBLIC AND PRIVATE RIGHT OF WAY AND STORM DRAIN EASEMENTS, SHALL BE VISUALLY INSPECTED BY MEANS OF CLOSED-CIRCUIT TELEVISION. DEFECTS MUST BE REPAIRED AND THE SYSTEM MUST BE TELEVISED TO CONFIRM SATISFACTORY REPAIR WORK PRIOR TO PAVING. THE STORM DRAIN SYSTEM MUST ALSO BE TELEVISED AFTER PAVING. IMMEDIATELY AFTER FLATWORK AND ASPHALT PUNCHLIST IS COMPLETED, AND PRIOR TO ACCEPTANCE, THE CONTRACTOR SHALL TELEVISE THE STORM DRAIN SYSTEM AGAIN. ANY NECESSARY CLEAN OUT AND REPAIRS MUST BE COMPLETED PRIOR TO ACCEPTANCE.

5. VIDEO INSPECTION WILL BE DONE ONE SECTION (STRUCTURE TO STRUCTURE) AT A TIME. THE CAMERA WILL PAN THE INTERIORS OF ALL STRUCTURES AND WHEN IN THE PIPE, WILL STOP AT EACH JOINT TO ROTATE 360 DEGREES TO PAN THE ENTIRE JOINT. SPECIFICALLY DESIGNED AND CONSTRUCTED FOR SUCH INSPECTION. LIGHTING FOR THE CAMERA SHALL BE SUITABLE TO ALLOW A CLEAR COLOR PICTURE OF THE ENTIRE PERIPHERY OF THE PIPE. THE CAMERA SHALL BE OPERATIVE IN 100% HUMIDITY CONDITIONS WITHOUT CAUSING THE CAMERA TO FOG. THE CAMERA, TELEVISION MONITOR, AND OTHER COMPONENTS OF THE VIDEO SYSTEM SHALL BE CAPABLE OF PRODUCING PICTURE QUALITY TO THE SATISFACTION OF THE ENGINEER; AND IF UNSATISFACTORY, EQUIPMENT SHALL BE REMOVED AND NO PAYMENT WILL BE MADE FOR AN UNSATISFACTORY INSPECTION.

6. THE ENGINEER SHALL BE NOTIFIED 48 HOURS PRIOR TO TELEVISION AND MUST BE ONSITE TO CONFIRM FLOW RATE PRIOR TO TELEVISING. THE CAMERA SHALL BE MOVED THROUGH THE LINE IN A DOWNSTREAM DIRECTION AT A MODERATE RATE, STOPPING WHEN NECESSARY TO PERMIT PROPER DOCUMENTATION OF THE STORM DRAIN CONDITION. IN NO CASE WILL THE TELEVISION CAMERA BE PULLED AT A SPEED GREATER THAN 30 FEET PER MINUTE.

7. MANUAL WINCHES, POWER WINCHES, TV CABLE, AND POWERED REWINDS OR OTHER DEVICES THAT DO NOT OBSTRUCT THE CAMERA VIEW OR INTERFERE WITH PROPER DOCUMENTATION OF THE STORM DRAIN CONDITIONS SHALL BE USED TO MOVE THE CAMERA THROUGH THE LINE.

8. THE IMPORTANCE OF ACCURATE DISTANCE MEASUREMENTS IS EMPHASIZED. MEASUREMENT FOR LOCATION OF DEFECTS SHALL BE ABOVE GROUND BY MEANS OF A METER DEVICE. MARKING ON THE CABLE, OR THE LINE, WHICH WOULD REQUIRE INTERPOLATION FOR DEPTH OF INSERTION PIT, WILL NOT BE ALLOWED. ACCURACY OF THE DISTANCE METER SHALL BE CHECKED BY USE OF A WALKING METER, ROLL-ATAPE, OR OTHER SUITABLE DEVICE AND THE ACCURACY SHALL BE SATISFACTORY TO THE ENGINEER.

9. DOCUMENTATION OF THE TELEVISION RESULTS SHALL BE AS FOLLOWS:

    A. THE PURPOSE OF TELEVISING SHALL BE TO SUPPLY A VISUAL AND AUDIO RECORD OF PROBLEM AREAS OF THE LINES THAT MAY BE REPLAYED. RECORDING PLAYBACK SHALL BE AT THE SAME SPEED THAT IT WAS RECORDED. THE FORMAT SHALL BE DVD. THE ACCOMPANYING AUDIO SHALL PROVIDE A DESCRIPTION OF WHAT IS ENCOUNTERED SUCH AS JOINTS, PROBLEM AREAS, AND BROKEN PIPE.

    B.THE DVD SHALL HAVE DISPLAYED THE NUMBER OF FEET FROM THE STARTING STRUCTURE FOR EACH SEGMENT.

    C. SECTIONS OF PIPE FROM STRUCTURE TO STRUCTURE SHALL BE AUDIBLY AND VISUALLY IDENTIFIED IN THE VIDEO USING THE SAME NOMENCLATURE AS ON THE IMPROVEMENT PLANS, E.G. "SDMH #2 TO SDMH #3" OR "STA 10+55". EACH DVD MUST BE LABELED WITH THE FOLLOWING INFORMATION: DATE, PROJECT #, THE LOCATIONS, AND TYPES OF STRUCTURES SHOWN ON THE DVD.

    D. TITLE TO THE DVD SHALL BE WITH THE ENGINEER. THE CONTRACTOR SHALL SUBMIT A COPY OF THE DVD FOR REVIEW BY THE ENGINEER DURING THE PROJECT. THE CONTRACTOR SHALL ALSO PROVIDE A WRITTEN SUMMARY OF THE DVD WITH DIMENSIONS AND INFORMATION, SPECIFICALLY IDENTIFYING PROBLEM AREAS AND BROKEN PIPE. (Revision 2)

CONSTRUCTION DEMOLITION AND SOLID WASTE NOTES:

1. REFER TO CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL, SPECIFICATION SECTION 01 7419 FOR ADDITIONAL DETAIL REGARDING THESE NOTES.

2. EFFECTIVE JANUARY 2013, ALLIED WASTE SERVICES/REPUBLIC SERVICES IS THE EXCLUSIVE DEBRIS BOX HAULER FOR ALL CONSTRUCTION DEBRIS. THE CONTRACTOR CAN ELECT TO HIRE ALLIED WASTE, UNLESS THE CONTRACTOR SELF-HAULS CONSTRUCTION DEBRIS. SEE NOTE 4.

3. DURING CONSTRUCTION AND DEMOLITION, ALL GARBAGE DEBRIS MUST BE REMOVED FROM THE SITE BY THE CITY'S ONLY APPROVED HAULER, REPUBLIC SERVICES, USING THEIR DEBRIS BOX SERVICE. NO OTHER ENTITY IS AUTHORIZED TO COLLECT OR TRANSPORT MATERIAL THAT HAS BEEN GENERATED IN FREMONT. THERE IS AN EXCEPTION FOR DUMPSTERS CONTAINING ONLY SEPARATED SOIL, CONCRETE OR ASPHALT. REPUBLIC SERVICES CONTACT IS 510-657-3500.

4. CONTRACTORS CAN SELF-HAUL CONSTRUCTION DEBRIS IF ALL OF THESE CONDITIONS ARE MET:
    - 4.1. CONTRACTOR IS PROVIDING A CONSTRUCTION OR DEMOLITION SERVICE ONSITE AND THE DEBRIS REMOVAL IS AN INCIDENTAL PART OF THE CONSTRUCTION OR DEMOLITION WORK PERFORMED BY THAT PERSON; AND
    - 4.2. CONTRACTORS USE THEIR OWN EMPLOYEES, COMPANY VEHICLES AND EQUIPMENT; AND
    - 4.3. CONTRACTORS DELIVER THE CONSTRUCTION DEBRIS TO AN APPROVED FACILITY
    - 4.4. CONTRACTORS AND SUBCONTRACTORS MUST BE LICENSED TO DO BUSINESS IN FREMONT.

5. THE CONSTRUCTION OR DEMOLITION CONTRACTOR MAY REMOVE MATERIALS FROM THE JOBSITE, USING THEIR OWN EQUIPMENT, VEHICLES AND EMPLOYEES, AS AN INCIDENTAL PART OF A TOTAL CONSTRUCTION OR DEMOLITION SERVICE OFFERED BY THAT CONTRACTOR. CONTRACTORS WHO SELF-HAUL DEBRIS IN THEIR OWN VEHICLES SHALL DELIVER THE MATERIAL TO THE FREMONT RECYCLING AND TRANSFER STATION OR ANOTHER APPROVED FACILITY. CONTRACTORS WHO ARE SELF-HAULING MATERIALS WILL BE REQUIRED TO SAVE THE RECEIPTS FROM THE DISPOSAL AND RECYCLING FACILITIES AND SUBMIT THE RECEIPTS TO THE CITY ON A MONTHLY BASIS.

6. IF A COMPANY OTHER THAN REPUBLIC SERVICES PROVIDES DEBRIS BOX SERVICE FOR HAULING CERTAIN SEPARATED RECYCLABLE MATERIALS (ONLY SOIL, ASPHALT OR CONCRETE), EACH LOAD MUST NOT CONTAIN MORE THAN 10% GARBAGE OR OTHER NON-RECYCLABLE MATERIAL BY WEIGHT OR VOLUME.

7. SEPARATED SINGLE COMMODITY LOADS OF SOIL, ASPHALT OR CONCRETE MAY BE HAULED BY ANY APPROVED HAULING COMPANY. INDIVIDUAL LOADS OF RECYCLING MUST CONTAIN AT LEAST 90% RECYCLABLE MATERIAL. LOADS CONTAINING MORE THAN 10% GARBAGE OR OTHER NON-RECYCLABLE MATERIAL MUST BE HAULED BY ALLIED WASTE SERVICES.

8. ALAMEDA COUNTY LAW REQUIRES THAT ALL PLANT DEBRIS BE SEPARATED AND RECYCLED. PLANT AND TREE DEBRIS MUST BE SEPARATED FROM OTHER WASTE. PLANT DEBRIS MAY BE CHIPPED FOR MULCH, DELIVERED TO THE FREMONT RECYCLING AND TRANSFER STATION, OR TO ANOTHER APPROVED FACILITY.

9. DURING CONSTRUCTION, 100% OF THE ASPHALT AND CONCRETE MUST BE REUSED OR RECYCLED, AND AT LEAST 50% OF THE REMAINING DEBRIS GENERATED FROM THE PROJECT MUST BE REUSED OR RECYCLED. IN ORDER TO RECEIVE FINAL PERMIT APPROVAL, CONTRACTOR MUST SAVE ALL RECEIPTS FROM DISPOSAL AND RECYCLING TO TURN IN AT THE COMPLETION OF THE PROJECT.

10. CONTRACTOR MUST SUBMIT A SIGNED HAULER ACKNOWLEDGEMENT FORM TO ENSURE ONLY AUTHORIZED HAULERS ARE USED TO REMOVE CONSTRUCTION DEBRIS FROM THE JOBSITE. REFER TO PROJECT SPECIFICATION SECTION 017419.

11. THE CONTRACTOR MUST SUBMIT A FREMONT WASTE HANDLING PLAN PRIOR TO BEGINNING ANY CONSTRUCTION. REFER TO PROJECT SPECIFICATION SECTION. THE WASTE HANDLING PLAN MUST:
    - 11.1. PROVIDE AN ESTIMATE OF TYPE OF DEBRIS GENERATED
    - 11.2. LIST THE NAMES OF THE APPROVED RECYCLING FACILITIES THAT WILL BE USED TO MEET THE DIVERSION REQUIREMENT.
    - 11.3. INDICATE THAT 50% OF THE MATERIAL WILL BE RECYCLED.
    - 11.4. BE DISTRIBUTED TO ALL SUBCONTRACTORS ON THE JOB.

12. ALL DISPOSAL AND RECYCLING RECEIPTS MUST OFFICIALLY LIST FREMONT AS THE CITY OF ORIGIN TO BE COUNTED TOWARD THE DIVERSION REQUIREMENT.

13. WITHIN THIRTY DAYS OF COMPLETION OF THE WORK, AND PRIOR TO THE FINAL INSPECTION, THE CONTRACTOR MUST FILE A DEBRIS DISPOSAL & DIVERSION REPORT DOCUMENTING ACTUAL TONS OF DEBRIS RECYCLED, ALONG WITH ALL DISPOSAL RECEIPTS OR WEIGHT TAGS FROM THE PROJECT. PROJECT SPECIFICATION SECTION 017419.

14. FAILURE TO COMPLY WITH THE WASTE HANDLING PLAN OR PROVIDE ACCURATE, ACCEPTABLE DOCUMENTATION MAY RESULT IN A PENALTY OF $1000 PER TON NOT RECYCLED.

15. ALL CONTRACTORS, SUBCONTRACTORS, AND VENDORS MUST BE LICENSED TO DO BUSINESS IN FREMONT.

16. RECYCLING REQUIREMENTS: THE CITY OF FREMONT REQUIRES REUSE, RECYCLING, AND PROPER DISPOSAL OF CONSTRUCTION DEBRIS. RECYCLABLE DEBRIS, INCLUDES, BUT IS NOT LIMITED TO: CARDBOARD, WOOD, SCRAP METAL, SCRAP DRYWALL, ASPHALT AND CONCRETE. ONLY SPECIFIC HAULERS AND FACILITIES SHALL BE USED. PROJECTS SUBJECT TO RECYCLING REQUIREMENTS:
    - 16.1. ALL DEMOLITION PROJECTS, REGARDLESS OF VALUE.
    - 16.2. ALL NEW PROJECTS WITH A PERMIT VALUE OVER $300,000.
    - 16.3. ALL RESIDENTIAL REMODELING PROJECTS WITH A PERMIT VALUE OVER $300,000.
    - 16.4. ALL COMMERCIAL TENANT IMPROVEMENTS WITH A PERMIT VALUE OVER $300,000.

17. RECYCLING REPORTING REQUIREMENTS: PRIOR TO DEMOLITION AND CONSTRUCTION AND PRIOR TO PERMIT ISSUANCE, CONTRACTOR MUST SUBMIT:
    - 17.1. WASTE HANDLING PLAN
    - 17.2. WASTE HANDLING PLAN FORM
    - 17.3. DETERMINE WHETHER A DEBRIS BOX WILL BE USED OR CONTRACTOR WILL SELF-HAUL DEBRIS.
    - 17.4. ESTIMATE OF THE AMOUNT AND TYPE OF DEBRIS THAT WILL BE GENERATED FROM THE PROJECT
    - 17.5. LIST THE RECYCLING FACILITIES AND SERVICES THAT WILL BE USED.
    - 17.6. THE WASTE HANDLING PLAN MUST BE APPROVED BY ENVIRONMENTAL SERVICES STAFF BEFORE ANY PERMITS ARE ISSUED.

18. DURING CONSTRUCTION, THE CONTRACTOR MUST:
    - 18.1. REUSE OR RECYCLE 100% OF ALL ASPHALT, CONCRETE, AND DIRT
    - 18.2. REUSE OR RECYCLE 50% OF ALL REMAINING PROJECT DEBRIS
    - 18.7. REUSE OR RECYCLE 65% FOR NEW RESIDENTIAL CONSTRUCTION PROJECTS
    - 18.7. SEPARATE AND COMPOST 100% OF PLANT AND TREE DEBRIS. PLANT AND TREE DEBRIS CANNOT BE LANDFILLED IN ALAMEDA COUNTY.
    - 18.7. COMPLY WITH THE LATEST CALGREEN RECYCLING REQUIREMENTS, IF STRICTER THAN FREMONT'S CONSTRUCTION AND DEMOLITION DEBRIS RECYCLING ORDINANCE.
    - 18.7. CONTRACTORS AND SUBCONTRACTORS MUST KEEP ALL RECEIPTS FOR CONSTRUCTION MATERIALS DELIVERED TO DISPOSAL OR RECYCLING FACILITIES. RECEIPTS MUST DOCUMENT THAT THE MINIMUM RECYCLING REQUIREMENTS WERE ACHIEVED.

19. AFTER CONSTRUCTION, IN ORDER TO RECEIVE FINAL APPROVAL ON THE PROJECT, RECYCLING RECEIPTS MUST BE SUBMITTED WITH A FINAL REPORT AT THE END OF PROJECT, BUT PRIOR TO RECEIVING FINAL APPROVAL FROM THE BUILDING INSPECTOR. THE CONTRACTOR MUST:
    - 19.7. SUBMIT A DEBRIS DIVERSION & DISPOSAL REPORT
    - 19.7. DOCUMENT ACTUAL TONNAGES OR VOLUMES OF MATERIAL RECYCLED AND DISPOSED
    - 19.7. ATTACH COPIES OF RECEIPTS, GATE OR WEIGHT TAGS, OR OTHER DOCUMENTATION VERIFYING ACTUAL TONNAGES OR VOLUMES RECYCLED AND DISPOSED TO ACHIEVE THE MINIMUM RECYCLING REQUIRED.

FOR CITY COUNCIL USE ONLY

CA: 800-227-2600
CALL BEFORE YOU DIG
USA
UNDERGROUND SERVICE ALERT
NV: 800-227-2600

REGISTERED PROFESSIONAL ENGINEER
PAUL J. SCHNEIDER
No. 62498
Exp. 09/30/19
CIVIL
STATE OF CALIFORNIA

DATE SIGNED: 06/01/17

No.	Date	Revision	By
1	09/16/15	FIRST PLAN CHECK	RJS
2	10/17/16	CYCLE 3 PLAN CHECK	RJS
3	05/10/17	CYCLE 4 PLAN CHECK	MWK
4	10/31/17	RE-BID	

CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

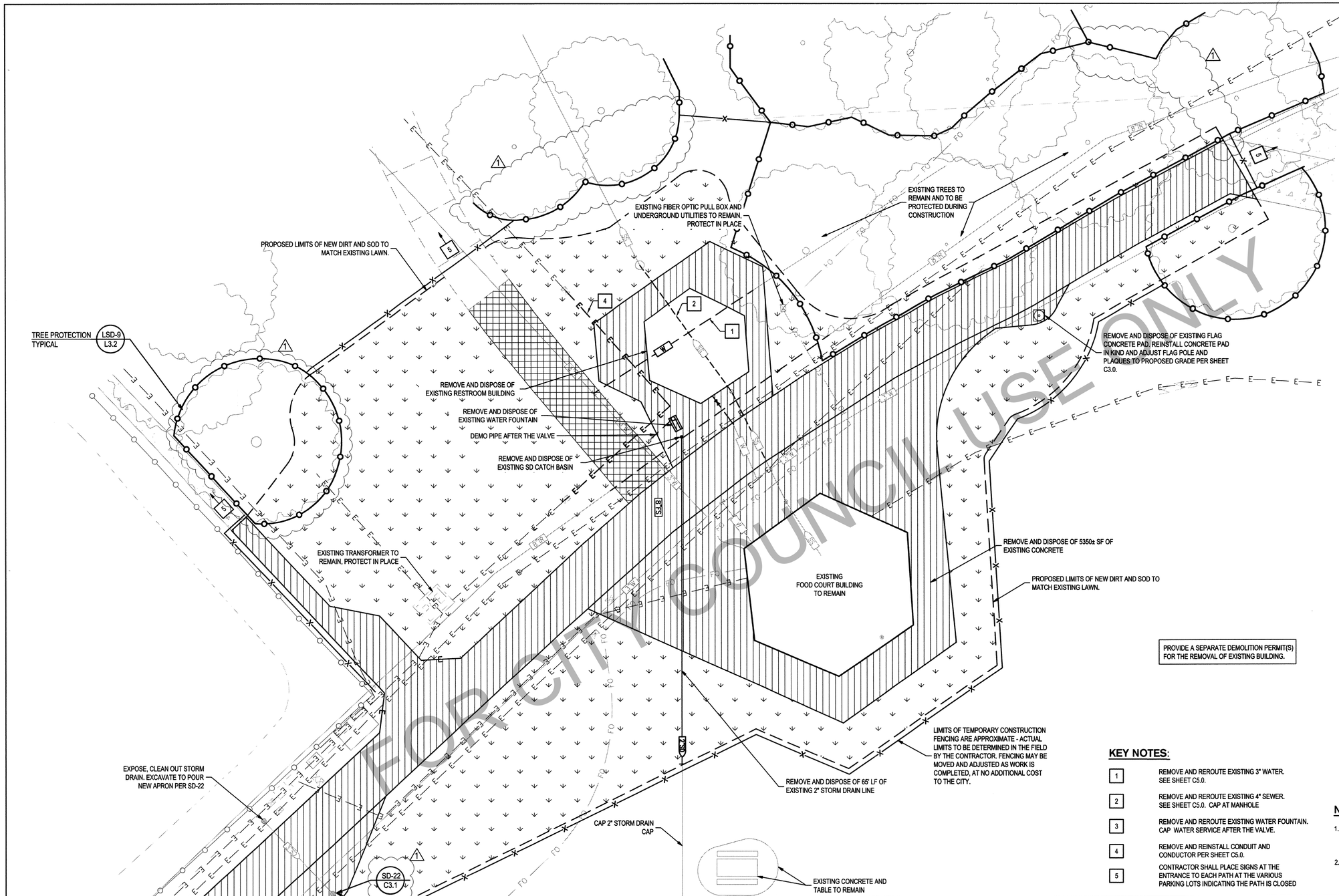
NOTES SHEET

CITY OF Fremont
COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed -- Associate Land. Arch.~~	Date	Recommended -- Project Manager	Date

Scale:	NONE
Designed By:	PJS
Drawn By:	RJN
Date:	10/17/2014
Project No.:	8718 (PWC)
CAD File:	12203-C1.0.dwg
SHEET 2	OF 37

C1.0



FOR CITY COUNCIL USE ONLY

DEMOLITION NOTES:

1. SEPARATE DEMOLITION PERMIT IS REQUIRED.
2. CONTRACTOR SHALL COMPLY WITH THE CITY OF FREMONT (COF) CONSTRUCTION & DEMOLITION DEBRIS RECYCLING ORDINANCE (ORD. NO. 11-2008, §2, 9-2-08).
3. THE PROJECT IS SUBJECT TO CITY RECYCLING ORDINANCES AND WILL BE REQUIRED TO REUSE OR RECYCLE 100% OF ALL ASPHALT AND CONCRETE, AND REUSE OR RECYCLE 50% OF ALL REMAINING MATERIALS (WOOD, METAL, ETC.).
4. THE CONTRACTOR SHALL SUBMIT A WASTE HANDLING PLAN AND OBTAIN APPROVAL PRIOR TO THE PERMIT ISSUANCE.
5. THE CONTRACTOR SHALL SAVE ALL RECEIPTS DURING THE PROJECT AND SUBMIT THE RECEIPTS WITH 30 DAYS OF PROJECT COMPLETION WITH A FINAL DEBRIS DIVERSION REPORT PRIOR TO RECEIVING FINAL PERMIT APPROVAL.
6. CONTRACTOR MAY SELF-HAUL THE DEBRIS TO THE FREMONT RECYCLING AND TRANSFER STATION. ONLY THE PRIME CONTRACTOR MAY SELF HAUL THEIR CONSTRUCTION/DEMOLTION DEBRIS (GARBAGE AND RECYCLING) TO THIS FACILITY, USING THEIR OWN EQUIPMENT. IT IS NOT LEGAL TO SUBCONTRACT WITH A THIRD PARTY FOR HAULING GARBAGE.
7. THE APPLICANT MAY HIRE ALLIED WASTE SERVICES, AN APPROVED DEBRIS BOX VENDOR, AND FREMONT'S EXCLUSIVE FRANCHISE HAULER, TO COLLECT CONSTRUCTION/DEMOLITION DEBRIS (GARBAGE AND RECYCLING).
8. THE APPLICANT MAY HIRE ANOTHER APPROVED DEBRIS DROP BOX SERVICE VENDOR TO REMOVE ONLY THE RECYCLABLE DEBRIS AND SUBSCRIBE TO SERVICE THROUGH ALLIED WASTER FOR GARBAGE. INDIVIDUAL LOADS OF RECYCLING DEBRIS MAY NOT CONTAIN MORE THAN 10% GARBAGE. LOADS CONTAINING MORE THAN 10% GARBAGE MUST BE HAULED BY ALLIED WASTE SERVICES.
9. ADDITIONAL APPROVED RECYCLING FACILITIES & VENDORS CAN BE FOUND AT WWW.SJRECYCLES.ORG/CONSTRUCTION-DEMOLITION/CDDD.ASP OR AT WWW.STOPWASTE.ORG/DOCS/BUILDERSGUIDE-05.PDF.
10. CONTACT THE ENVIRONMENTAL SERVICES DIVISION AT 510-494-4570 OR VISIT WWW.FREMONT.GOV/ENVIRONMENT FOR QUESTIONS OR ADDITIONAL INFORMATION.
11. PLANT AND TREE DEBRIS MUST BE SEPARATED FROM OTHER WASTE. PLANT DEBRIS MAY BE CHIPPED FOR MULCH, DELIVERED TO THE FREMONT RECYCLING AND TRANSFER STATION, OR OTHER APPROVED FACILITY.

LEGEND

- REMOVE AND DISPOSE OF ASPHALT PATH PER THE CITY OF FREEMONT CONSTRUCTION & DEMOLITION DEBRIS RECYCLING ORDINANCE
- EXISTING CONCRETE WALK TO REMAIN, PROTECT IN PLACE
- REMOVE AND DISPOSE OF EXISTING CONCRETE PER THE CITY OF FREMONT CONSTRUCTION & DEMOLITION DEBRIS RECYCLING ORDINANCE.
- CLEAR AND GRUB EXISTING LAWN AND SHRUB AREAS TO ACCOMMODATE PROPOSED GRADING AND LANDSCAPING. SEE LANDSCAPE DRAWINGS AND SPECIFICATIONS.
- 4"SS — EXISTING SANITARY SEWER, PROTECT IN PLACE
- 2"SD — EXISTING STORM DRAIN LINE TO BE REMOVED AND DISPOSED OF PER THE CITY OF FREMONT CONSTRUCTION & DEMOLITION DEBRIS RECYCLING ORDINANCE.
- 2"W — EXISTING WATER LINE, PROTECT IN PLACE
- 12"SD — EXISTING STORM DRAIN LINE, PROTECT IN PLACE
- FO — EXISTING FIBER OPTIC LINE, PROTECT IN PLACE
- E — EXISTING ELECTRIC CONDUIT, PROTECT IN PLACE
- TREE PROTECTION FENCING PER CITY STANDARD LSD-9, SHEET L3.2
- TEMPORARY CONSTRUCTION FENCING

PROVIDE A SEPARATE DEMOLITION PERMIT(S) FOR THE REMOVAL OF EXISTING BUILDING.

KEY NOTES:

1. REMOVE AND REROUTE EXISTING 3" WATER. SEE SHEET C5.0.
2. REMOVE AND REROUTE EXISTING 4" SEWER. SEE SHEET C5.0. CAP AT MANHOLE
3. REMOVE AND REROUTE EXISTING WATER FOUNTAIN. CAP WATER SERVICE AFTER THE VALVE.
4. REMOVE AND REINSTALL CONDUIT AND CONDUCTOR PER SHEET C5.0.
5. CONTRACTOR SHALL PLACE SIGNS AT THE ENTRANCE TO EACH PATH AT THE VARIOUS PARKING LOTS INDICATING THE PATH IS CLOSED

NOTES:

1. SEE LANDSCAPE PLAN FOR THE LIMITS FOR THE REMOVAL AND REPLACEMENT OF NEW DIRT AND SOD TO MEET PROPOSED IMPROVEMENTS. (TYPICAL)
2. REMOVAL AND DISPOSAL OF EXISTING CONCRETE SHALL BE PERFORMED AT THE NEAREST RELIEF JOINT, AT EACH END OF THE PROPOSED WORK. REMOVAL DEPTH SHALL ACCOMMODATE DEPTH OF NEW SIDEWALK.

CA: 800-227-2600 — CALL BEFORE YOU DIG — USA — UNDERGROUND SERVICE ALERT — NV: 800-227-2600

REGISTERED PROFESSIONAL ENGINEER — PAUL J. SCHNEIDER — No. 62498 — Exp. 09/30/19 — CIVIL — STATE OF CALIFORNIA

DATE SIGNED: 06/01/17

No.	Date	Revision	By
2	10/17/16	CYCLE 3 PLAN CHECK	RJS
3	05/10/17	CYCLE 4 PLAN CHECK	MWK
4	10/31/17	RE-BID	

CENTRAL PARK "ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

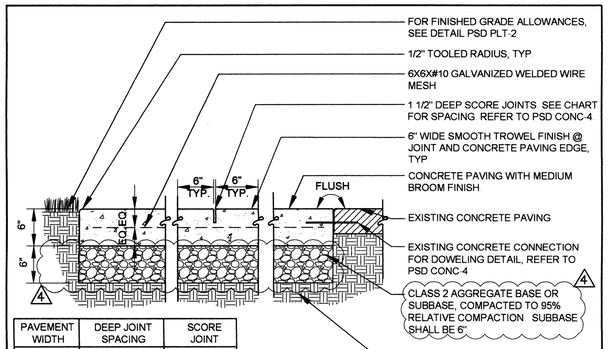
DEMOLITION PLAN

CITY OF Fremont — COMMUNITY SERVICES DEPARTMENT — LANDSCAPE ARCHITECTURE

~~Reviewed -- Associate Land. Arch.~~ | Date | Recommended -- Project Manager | Date

Scale:	1"=10'
Designed By:	PJS
Drawn By:	RJN
Date:	10/17/2014
Project No.:	8718 (PWC)
CAD File:	12203-C2.0.dwg
SHEET 3 OF 37	

C2.0



PAVEMENT WIDTH	DEEP JOINT SPACING	SCORE JOINT
10'	10' OC	NONE
8'	8' OC	NONE
6'	6' OC	NONE
5'	10' OC	YES*
4'	8' OC	YES*

*ALL SCORE JOINTS SHALL BE MIDWAY BETWEEN DEEP JOINT SPACING

NOTES:

1. MEDIUM BROOM FINISH PERPENDICULAR TO WALK DIRECTION UNLESS OTHERWISE SHOWN ON PLAN
2. CROSS SLOPE SHALL BE 1 8% WITH A TOLERANCE OF +/-0 2%, AND NOT EXCEEDING 2% OR FALLING UNDER 1 5%, UNLESS OUTSIDE PATH OF TRAVEL
3. REFER TO CHART FOR ON-CENTER SPACING OF DEEP JOINTS AND SCORE JOINTS, IF REQUIRED THE ADJACENT CHART IS A RECOMMENDED GUIDE FOR JOINT PLACEMENT
4. ALL WELDED WIRE MESH IS TO BE PRE-SET NO WET SETTING, HOOKING OR LIFTING OF MESH ALLOWED MESH IS TO BE SET IN THE MIDDLE OF THE CONCRETE SECTION
5. MIX INTEGRAL COLOR AS SPECIFIED ON THE PLANS, AND IN THE SPECIFICATIONS
6. SCORE JOINTS SHALL BE TOOLED NO SAWCUTTING ALLOWED
7. SCORE JOINTS SHALL BE 1/4" WIDE x 1/2" DEEP
8. WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT, EXPANSION JOINTS MAY OCCUR AT THE JUNCTION BETWEEN FLAT AND VERTICAL CONCRETE SURFACES

0 3" 6" 1' 2'

SCALE: 1" = 1'-0"

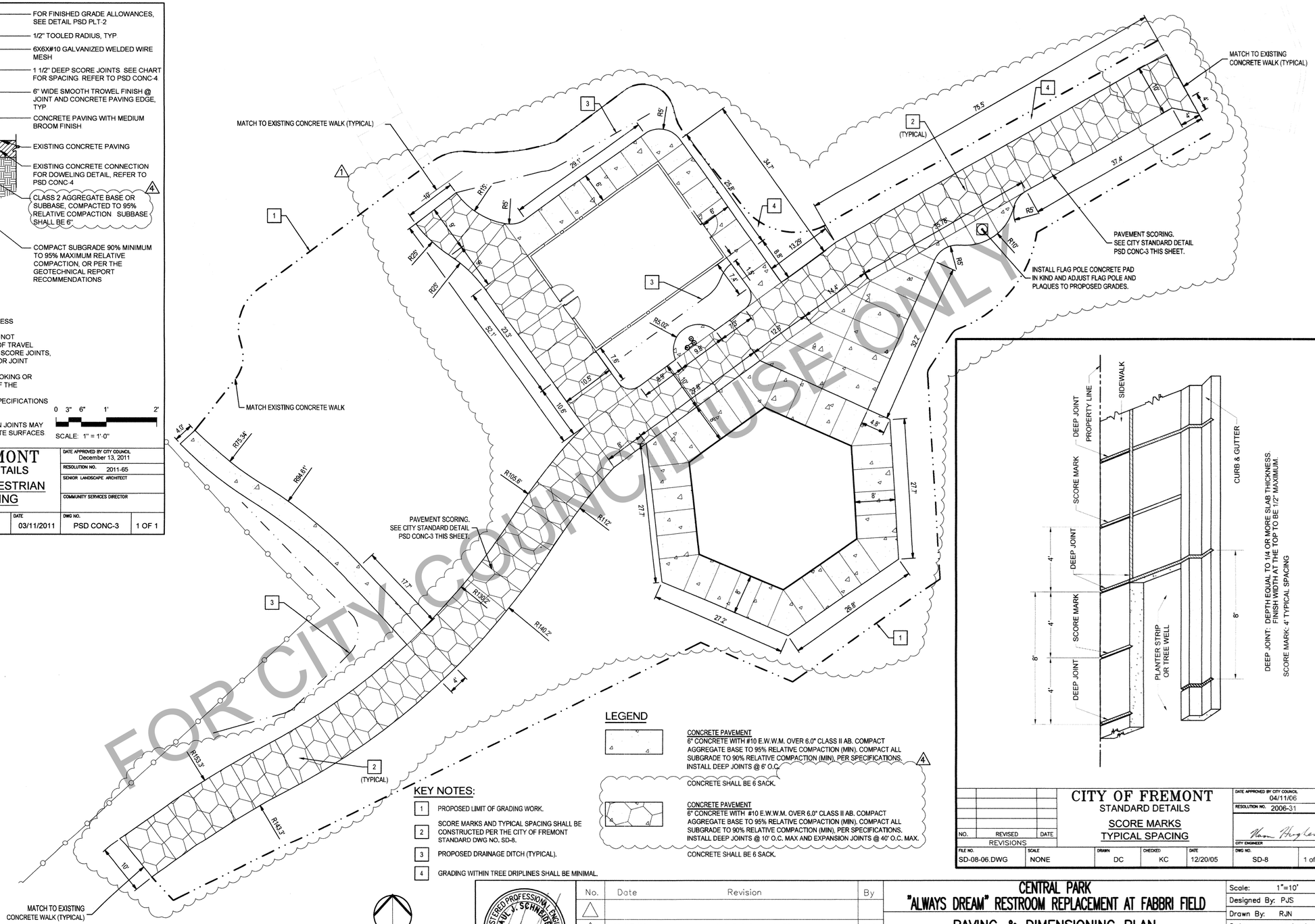
APR.	REVISED	DATE

REVISIONS

CITY OF FREMONT
PARK STANDARD DETAILS
VEHICULAR AND PEDESTRIAN CONCRETE PAVING

DATE APPROVED BY CITY COUNCIL: December 13, 2011
RESOLUTION NO. 2011-65
SENIOR LANDSCAPE ARCHITECT
COMMUNITY SERVICES DIRECTOR

FILE NO.	SCALE	DRAWN	CHECKED	DATE	DWG NO.	
PSD CONC-3.DWG	1" = 1'-0"	EL/TB	RER	03/11/2011	PSD CONC-3	1 OF 1



NO.	REVISED	DATE

REVISIONS

CITY OF FREMONT
STANDARD DETAILS
SCORE MARKS TYPICAL SPACING

DATE APPROVED BY CITY COUNCIL: 04/11/06
RESOLUTION NO. 2006-31
CITY ENGINEER

FILE NO.	SCALE	DRAWN	CHECKED	DATE	DWG NO.	
SD-08-06.DWG	NONE	DC	KC	12/20/05	SD-8	1 of 1

LEGEND

CONCRETE PAVEMENT
6" CONCRETE WITH #10 E.W.W.M. OVER 6.0" CLASS II AB. COMPACT AGGREGATE BASE TO 95% RELATIVE COMPACTION (MIN). COMPACT ALL SUBGRADE TO 90% RELATIVE COMPACTION (MIN). PER SPECIFICATIONS. INSTALL DEEP JOINTS @ 6' O.C.
CONCRETE SHALL BE 6 SACK.

CONCRETE PAVEMENT
6" CONCRETE WITH #10 E.W.W.M. OVER 6.0" CLASS II AB. COMPACT AGGREGATE BASE TO 95% RELATIVE COMPACTION (MIN). COMPACT ALL SUBGRADE TO 90% RELATIVE COMPACTION (MIN). PER SPECIFICATIONS. INSTALL DEEP JOINTS @ 10' O.C. MAX AND EXPANSION JOINTS @ 40' O.C. MAX.
CONCRETE SHALL BE 6 SACK.

KEY NOTES:

1. PROPOSED LIMIT OF GRADING WORK.
2. SCORE MARKS AND TYPICAL SPACING SHALL BE CONSTRUCTED PER THE CITY OF FREMONT STANDARD DWG NO. SD-8.
3. PROPOSED DRAINAGE DITCH (TYPICAL).
4. GRADING WITHIN TREE DRIPLINES SHALL BE MINIMAL.

0' 5' 10' 20'

SCALE: 1"=10'

CA:800-227-2600
CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
NV:800-227-2600

REGISTERED PROFESSIONAL ENGINEER
PAUL J. SCHNIEDER
No. 62498
Exp. 09/30/19
CIVIL
STATE OF CALIFORNIA

DATE SIGNED: 10/26/17

No.	Date	Revision	By
1			
2	10/17/16	CYCLE 3 PLAN CHECK	RJS
3	05/10/17	CYCLE 4 PLAN CHECK	MWK
4	10/26/17	RE-BID REVISION	MWK
5			

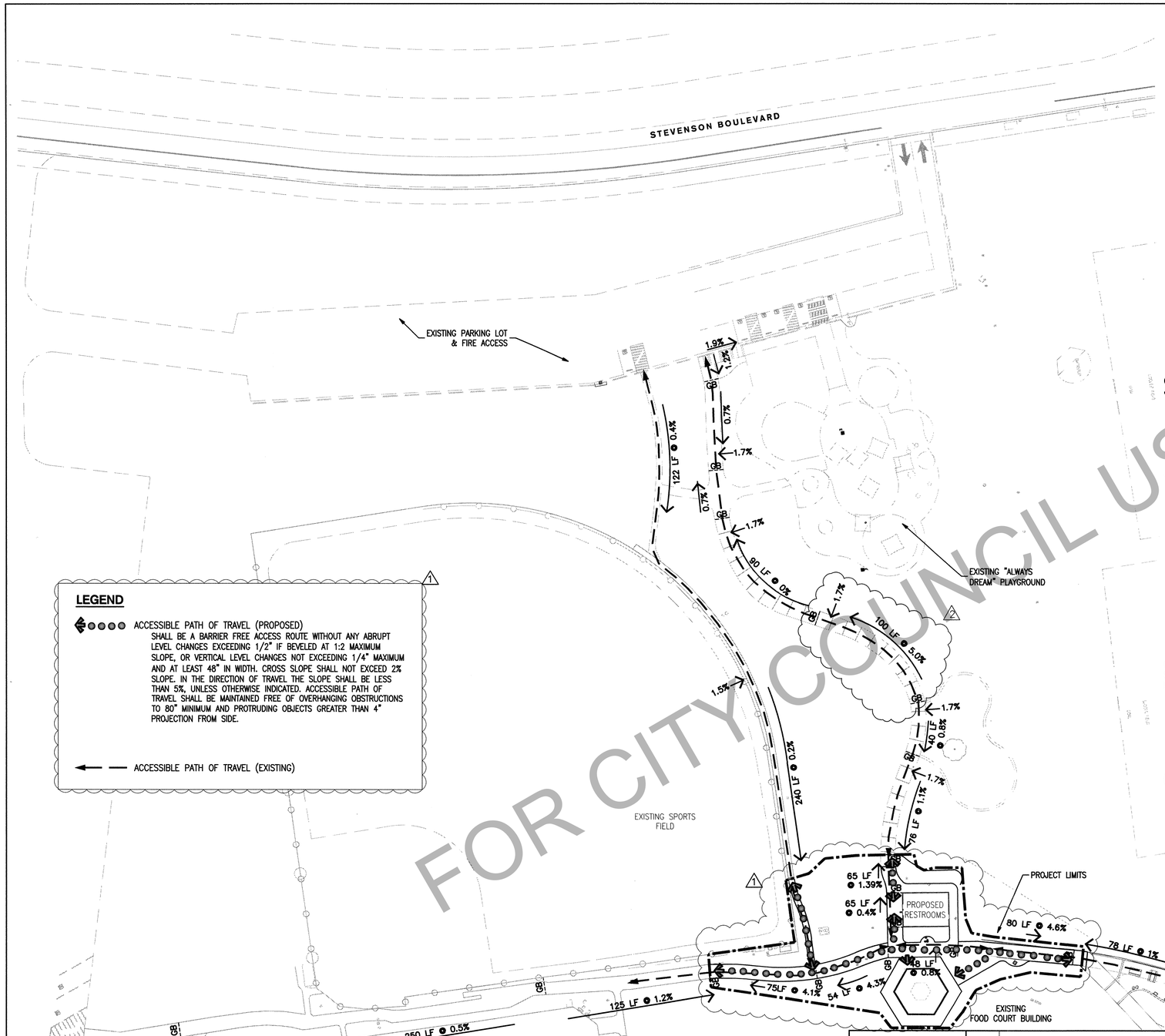
CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD
PAVING & DIMENSIONING PLAN

CITY OF Fremont
COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

Date | Recommended -- Project Manager | Date

Scale:	1"=10'
Designed By:	PJS
Drawn By:	RJN
Date:	10/17/2014
Project No.:	8718 (PWC)
CAD File:	12203-C3.0.dwg
SHEET	4 OF 37

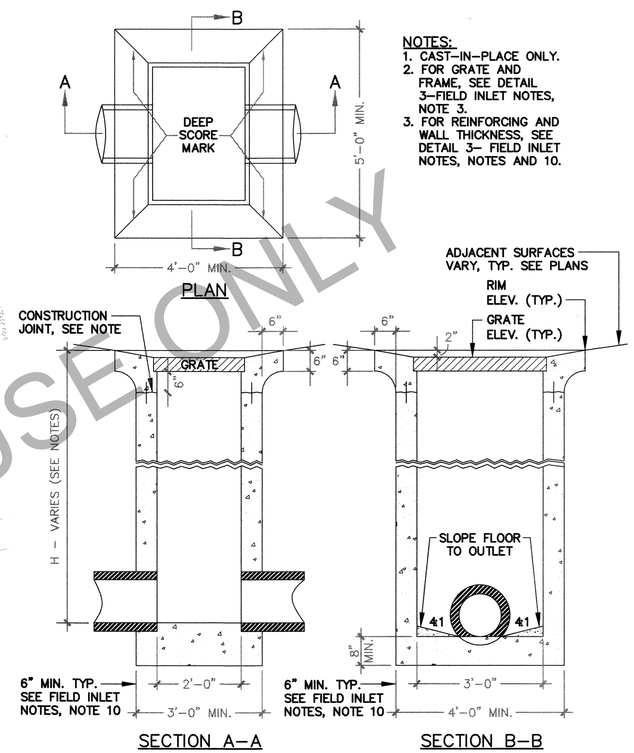
C3.0



LEGEND

ACCESSIBLE PATH OF TRAVEL (PROPOSED)
SHALL BE A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAXIMUM SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" IN WIDTH. CROSS SLOPE SHALL NOT EXCEED 2% SLOPE. IN THE DIRECTION OF TRAVEL THE SLOPE SHALL BE LESS THAN 5%, UNLESS OTHERWISE INDICATED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM SIDE.

ACCESSIBLE PATH OF TRAVEL (EXISTING)



NOTES:
1. CAST–IN–PLACE ONLY.
2. FOR GRATE AND FRAME, SEE DETAIL 3–FIELD INLET NOTES, NOTE 3.
3. FOR REINFORCING AND WALL THICKNESS, SEE DETAIL 3– FIELD INLET NOTES, NOTES AND 10.

1 **FIELD INLET C.O.F. DETAIL SD-22**
NO SCALE

NOTES:

1. ALL INLETS TO BE CAST-IN-PLACE ONLY.

2. ALL METAL SHALL BE STRUCTURAL GRADE STEEL OR BETTER AND SHALL BE GALVANIZED AFTER FABRICATION. AFTER INSTALLATION ABRADED SURFACES SHALL BE CLEANED FREE OF RUST AND OIL AND NEATLY SOLDERED OVER WITH 50-50 SOLDER.

3. GRATING AND FRAMES ARE TO BE ASSEMBLED AND MADE TO FIT BEFORE DELIVERY TO JOB SITE. THE REQUIRED GRATE IS TYPE 600-13 AS DESIGNATED BY CAL TRANS STANDARD DETAIL D77A AND D77B.

4. ALL CONCRETE SHALL BE 6-SACK CONCRETE.

5. TWO 3" WEEPHOLES TO BE PLACED AT ALL THE WALLS OF THE STORM DRAIN INLET AT THE STREET SUBGRADE ELEVATION (OR UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER).

6. POSITION OF PIPE LEAVING INLET TO BE AS INDICATED ON THE PLANS AND INLET FLOOR TO SLOPE TO END OF PIPE. WHERE TWO OR MORE PIPES ENTER AN INLET, THE FLOOR SHALL HAVE A CHANNEL CONNECTING THE PIPE.

7. MINIMUM CLEAR SPACING BETWEEN SURFACES OF CONCRETE AND REINFORCING STEEL TO BE 2" EXCEPT 3" WHERE CONCRETE IS PLACED AGAINST EARTH.

8. NO CONSTRUCTION JOINTS TO BE PLACED OTHER THAN WHERE SHOWN ON THE PLANS, EXCEPT WITH APPROVAL OF THE CITY ENGINEER.

9. WALL REINFORCING NOT REQUIRED WHEN H=8'-6" OR LESS AND THE UNSUPPORTED WIDTH OR LENGTH = 7' OR LESS. WALLS EXCEEDING THESE LIMITS SHALL BE REINFORCED WITH NO.4 BARS @ 18" CENTERS PLACED 2" (SECTION A-A ON SHEET 1) CLEAR TO INSIDE OF BOX. A MINIMUM OF 3 VERTICAL BARS PER WALL SHALL BE INSTALLED. "H" IS DIFFERENCE IN ELEVATION BETWEEN OUTLET PIPE INVERT AND TOP OF CURB.

10. WALL THICKNESS "T" SHALL BE "T" = 6" MIN. FOR "H" TO 8'-6", "T" = 8" FOR "H" = 8'-7" TO 20'; T = 12" MAX IN ANY CASE.

11. CONSTRUCTION JOINTS AT SUBGRADE SHALL BE REINFORCED WITH TWO, 24" LONG NO. 4 BARS AND EXTEND 6" MINIMUM BELOW SUBGRADE.

12. STENCIL "NO DUMPING DRAINS TO BAY" ON ALL DRAIN INLETS IN ACCORDANCE WITH THE CITY'S SPECIFICATIONS. THE STENCIL AND APPLICATION SPECIFICATIONS CAN BE PURCHASED AT THE CITY'S ENGINEERING COUNTER.

13. ALL CURB INLET BOXES MUST BE POURED NEAT UNLESS OTHERWISE SPECIFIED BY THE CITY ENGINEER.

14. IN THE EVENT OF OVEREXCAVATION, CURB INLET OUTER WALL SHALL BE FORMED AND THE RESULTING VOID BETWEEN THE FORM AND EXCAVATION SHALL BE BACK-FILLED WITH CLASS II AB, COMPACTED TO 90%. THE RESULTING VOID SHALL BE A MINIMUM OF 12" WIDE TO FACILITATE PROPER COMPACTION.

FOR CITY COUNCIL USE ONLY

CALL BEFORE YOU DIG — UNDERGROUND SERVICE ALERT
CA: 800-227-2600
NV: 800-227-2600

REGISTERED PROFESSIONAL ENGINEER — PAUL J. SCHNEIDER — No. 62498 — Exp. 09/30/19 — CIVIL — STATE OF CALIFORNIA

DATE SIGNED: 06/01/17

No.	Date	Revision	By
1	09/16/15	FIRST PLAN CHECK	RJS
2	10/17/16	CYCLE 3 PLAN CHECK	RJS
3	05/10/17	CYCLE 4 PLAN CHECK	MWK
4	10/31/17	RE-BID	
5			

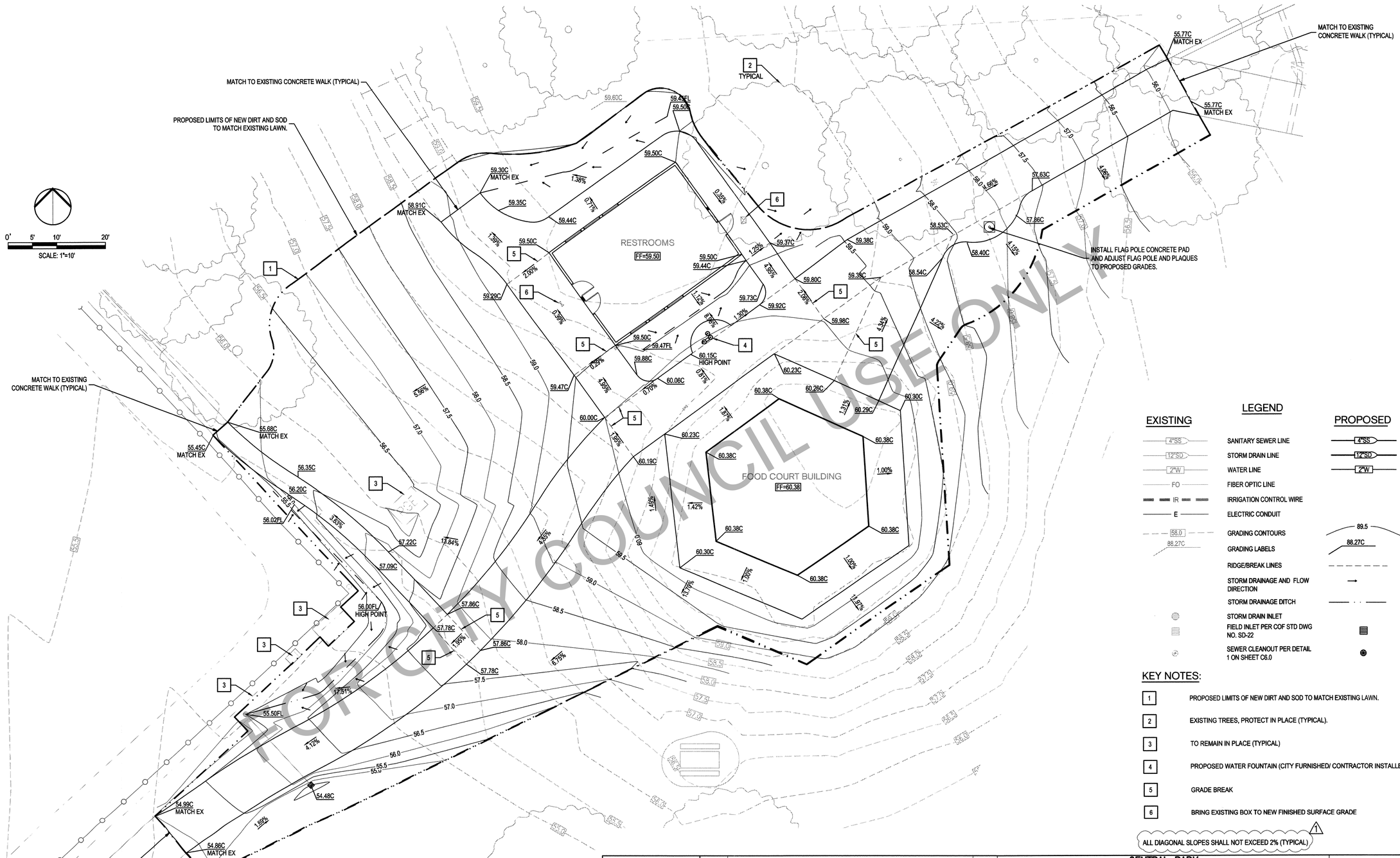
CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD
ACCESSIBILITY/ACCESS PLAN

CITY OF Fremont
COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed~~ ~~Associate Land. Arch.~~ | Date | Recommended -- Project Manager | Date

Scale:	1"=40'
Designed By:	PJS
Drawn By:	RJN
Date:	10/17/2014
Project No.:	8718 (PWC)
CAD File:	12203-C3.1.dwg
SHEET	5 OF 37

C3.1



LEGEND

EXISTING		PROPOSED
4"SS	SANITARY SEWER LINE	4"SS
12"SD	STORM DRAIN LINE	12"SD
2"W	WATER LINE	2"W
FO	FIBER OPTIC LINE	
IR	IRRIGATION CONTROL WIRE	
E	ELECTRIC CONDUIT	
58.0	GRADING CONTOURS	89.5
88.27C	GRADING LABELS	88.27C
	RIDGE/BREAK LINES	
	STORM DRAINAGE AND FLOW DIRECTION	
	STORM DRAINAGE DITCH	
	STORM DRAIN INLET	
	FIELD INLET PER COF STD DWG NO. SD-22	
	SEWER CLEANOUT PER DETAIL 1 ON SHEET C6.0	

KEY NOTES:

1. PROPOSED LIMITS OF NEW DIRT AND SOD TO MATCH EXISTING LAWN.
2. EXISTING TREES, PROTECT IN PLACE (TYPICAL).
3. TO REMAIN IN PLACE (TYPICAL)
4. PROPOSED WATER FOUNTAIN (CITY FURNISHED/ CONTRACTOR INSTALLED)
5. GRADE BREAK
6. BRING EXISTING BOX TO NEW FINISHED SURFACE GRADE

1 ALL DIAGONAL SLOPES SHALL NOT EXCEED 2% (TYPICAL)

CA: 800-227-2600
CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
USA
NV: 800-227-2600

REGISTERED PROFESSIONAL ENGINEER
PAUL V. SCHNEIDER
No. 62498
Exp. 09/30/19
CIVIL
STATE OF CALIFORNIA

DATE SIGNED: 06/01/17

No.	Date	Revision	By
1			
2	10/17/16	CYCLE 3 PLAN CHECK	RJS
3	05/10/17	CYCLE 4 PLAN CHECK	MWK
4	10/31/17	RE-BID	
5			

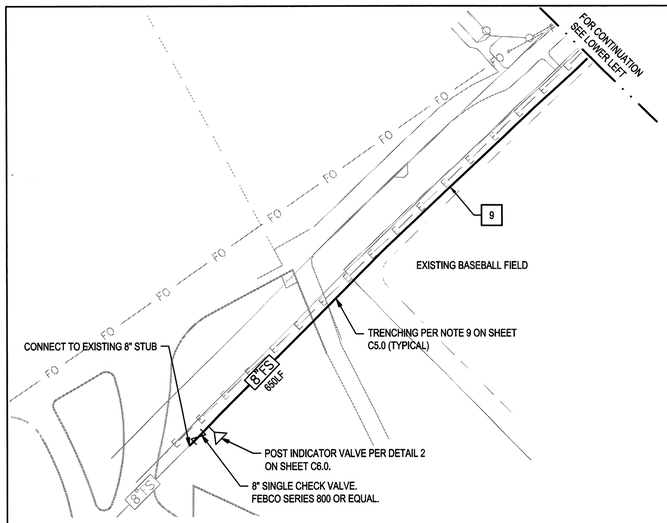
CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD
GRADING PLAN

CITY OF Fremont
COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

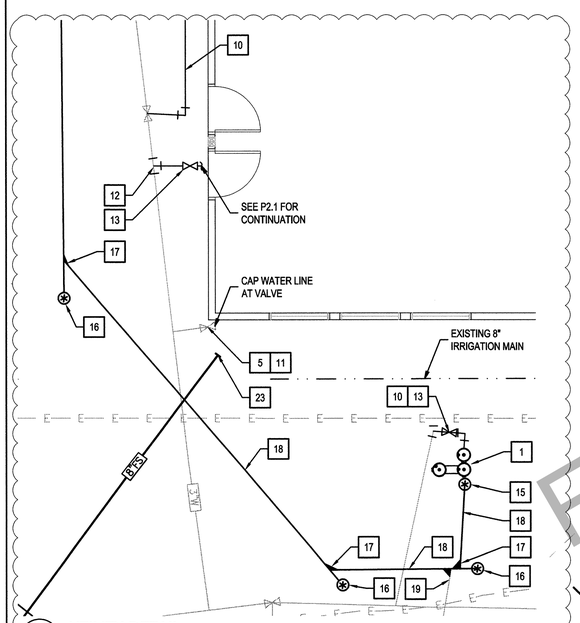
~~Reviewed~~ ~~Associate Land. Arch.~~ | Date | Recommended -- Project Manager | Date

Scale:	1"=10'
Designed By:	PJS
Drawn By:	RJN
Date:	10/17/2014
Project No.:	8718 (PWC)
CAD File:	12203-C4.0.dwg
SHEET 6	OF 37

C4.0



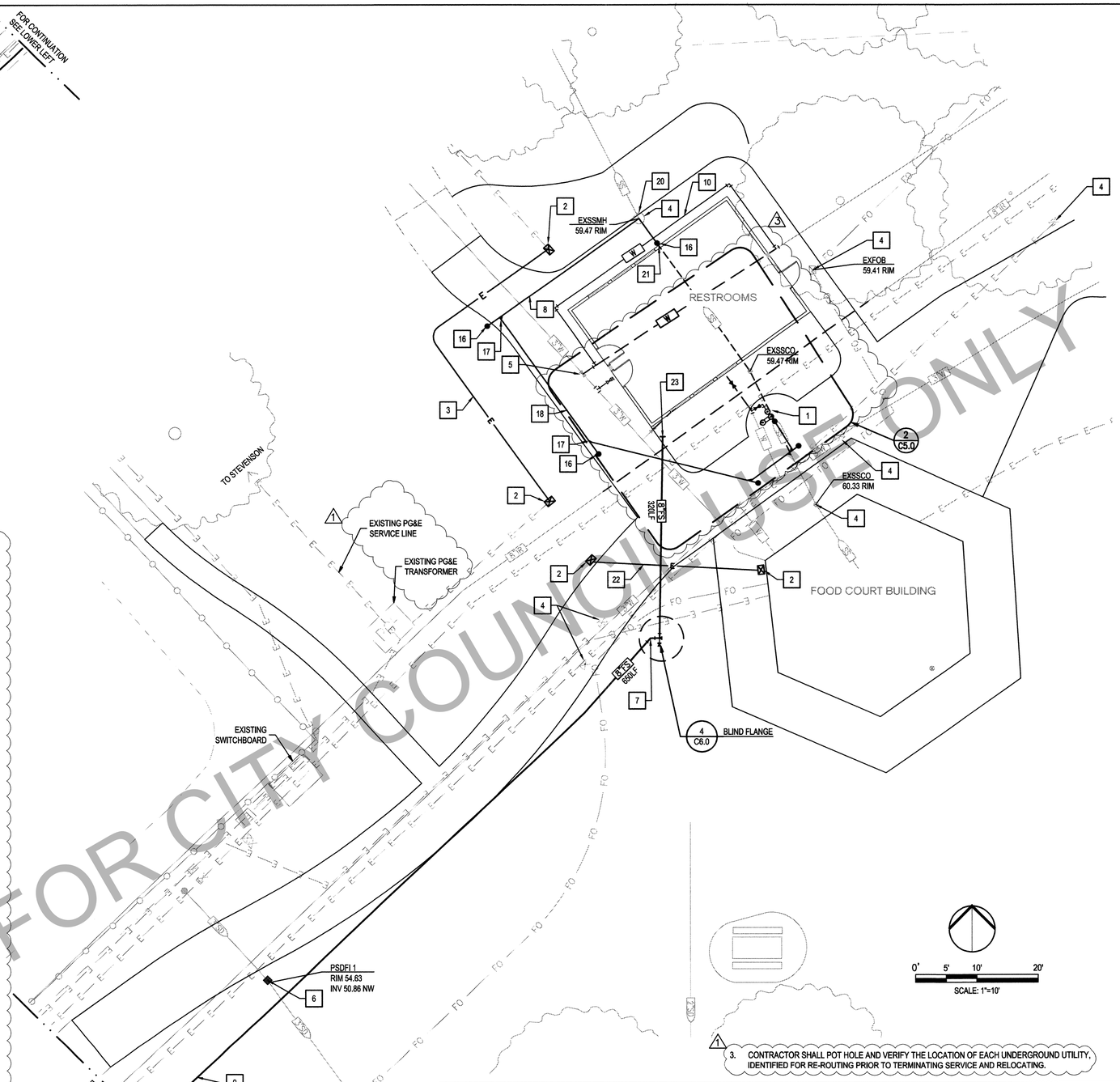
1 FIRE SERVICES CONNECT DETAIL
1"=5'



2 UTILITY DETAIL
1"=5'

KEY NOTES CONTINUED:

23 SEE P2.1 FOR FIRE SPRINKLER CONNECTIONS AND DEFERRED SUBMITTALS.



FOR CITY COUNCIL USE ONLY

LEGEND

EXISTING		PROPOSED
4"SS	SANITARY SEWER LINE	4"SS
12"SD	STORM DRAIN LINE	12"SD
8"FS	FIRE SERVICE LINE	8"FS
2"W	WATER LINE	2"W
FO	FIBER OPTIC LINE	
8"IR	IRRIGATION PIPE MAIN	
E	ELECTRIC CONDUIT	
	STORM DRAIN INLET	
	FIELD INLET PER COF STD DWG NO. SD-22	
	SEWER CLEANOUT PER DETAIL 1 ON SHEET C6.0	
	PULL BOX	
PG&E	EXISTING TRANFORMER	

KEY NOTES:

1. PROPOSED DRINKING FOUNTAIN CITY FURNISHED AND CONTRACTOR INSTALLED PER CITY OF FREMONT STANDARD DETAIL PSD-SF-1 ON SHEET C3.0
2. INSTALL NEW CONCRETE PULL BOX PER CITY OF FREMONT STANDARD DETAILS.
3. RE-ROUTE EXISTING CONDUIT AND CONDUCTOR AS SHOWN.
4. ADJUST FIBER OPTIC BOX, SANITARY SEWER CLEANOUTS AND MANHOLES TO PROPOSED GRADES(TYPICAL) OR PROPOSED RIM ELEVATION STATED ON THIS SHEET.
5. 1 EXISTING WATER VALVE
6. FIELD INLET PER THE CITY OF FREMONT STD DWG NO. SD-22 ON SHEET C3.1
7. INSTALL 135° BEND
8. CONNECT TO EXISTING SANITARY. CONTRACTOR TO EXPOSE PIPE AND VERIFY INVERT PRIOR TO START OF ANY CONSTRUCTION.
9. CONNECT TO EXISTING FIRE SERVICE PIPELINE STUB. SEE DETAIL 5 ON SHEET C6.0. CONTRACTOR TO WALK THE ALIGNMENT AND IDENTIFY ANY POSSIBLE CONFLICTS. CONTRACTOR SHALL NOTIFY THE CITY ENGINEER PRIOR TO THE START OF CONSTRUCTION TO DETERMINE THE METHOD OF CONSTRUCTION BY MEANS ON OPEN TRENCH OR BY MEANS OF HORIZONTAL DIRECTIONAL DRILLING, PER CALTRANS SPECIFICATIONS. CONTRACTOR SHALL REFER TO THE CITY OF FREMONT STANDARD DWG. N0. PSD PLT-3 WHEN TRENCHING TO AN ADJACENT EXISTING TREE (TYPICAL).
10. INSTALL 1" PVC LATERAL
11. 3 INSTALL CHRISTY E5 VALVE BOX OVER EXISTING LATERAL AND SET FLUSH WITH THE FINISHED FLOOR. CAP END OF VALVE.
12. HOT TAP EXISTING 3" WATER FOR 2" SERVICE
13. INSTALL VALVEBOX AND ISOLATION VALVE PER CITY OF FREMONT STANDARD DETAIL PSD SF-1.
14. INSTALL CLEANOUT P-TRAP PER CITY OF FREMONT STANDARD DETAIL PSD SF-1
15. INSTALL 2" WASTE LINE
16. INSTALL SEWER CLEAN OUT PER DETAIL 1 SHEET C6.0.
17. INSTALL WYE FITTING
18. 1 INSTALL 4" SEWER, S=0.01 MINIMUM
19. RECONNECT EXISITING FOOD COURT SEWER SERVICE
20. RECONNECT TO EXISTING SEWER MANHOLE.
21. CONNECT RESTROOM TO SEWER MAIN, SEE PLUMBING PLAN FOR CONTINUATION.
22. INSTALL 4-2"Ø PVC CONDUITS FOR FUTURE ELECTRICAL AND DATA USE.

UTILITY NOTES:

1. ALL EXISTING UTILITIES AND UTILITIES STRUCTURES SHALL BE PROTECTED AND ALL EXISTING RIMS OR BOX SHALL BE ADJUSTED TO PROPOSED SURFACE. (TYPICAL)
2. CONSTRUCTION OF UTILITIES SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE CITY OF FREMONT STANDARD SPECIFICATIONS:
   - SECTION 4 - SANITARY SEWERS AND APPURTENANCES
   - SECTION 5 - WATER MAINS AND APPURTENANCES
   - SECTION 6 - PUBLIC UTILITES
   - SECTION 7 - FIRE HYDRANTS AND APPURTENANCES
   - SECTION 9 - CLEARING AND GRUBBING
   - SECTION 10 - EARTHWORK
   - SECTION 11B- TRENCH BACKFILL IN PUBLIC UTILITY EASEMENTS OR OTHER AREAS OUT OF EXISTING OR PROPOSED STREET RIGHT-OF-WAY
3. 1 CONTRACTOR SHALL POT HOLE AND VERIFY THE LOCATION OF EACH UNDERGROUND UTILITY, IDENTIFIED FOR RE-ROUTING PRIOR TO TERMINATING SERVICE AND RELOCATING.

CA: 800-227-2600 CALL BEFORE YOU DIG UNDERGROUND SERVICE ALERT NV: 800-227-2600

REGISTERED PROFESSIONAL ENGINEER PAUL V. SCHNEIDER No. 62498 Exp. 09/30/19 CIVIL STATE OF CALIFORNIA

DATE SIGNED: 06/01/17

No.	Date	Revision	By
1			
2	10/17/16	CYCLE 3 PLAN CHECK	RJS
3	05/10/17	CYCLE 4 PLAN CHECK	MWK
4	10/31/17	RE-BID	
5			

CENTRAL PARK "ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

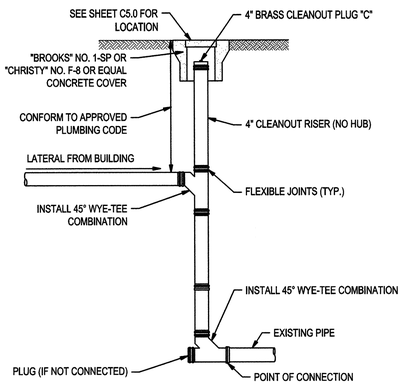
UTILITY PLAN

CITY OF Fremont — COMMUNITY SERVICES DEPARTMENT — LANDSCAPE ARCHITECTURE

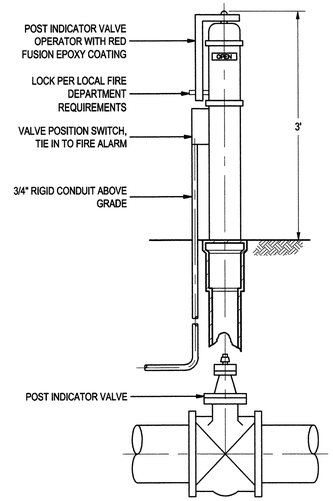
~~Reviewed~~ ~~Associate Land. Arch.~~ | Date | Recommended -- Project Manager | Date

Scale:	1"=10'
Designed By:	PJS
Drawn By:	RJN
Date:	10/17/2014
Project No.:	8718 (PWC)
CAD File:	12203-C5.0.dwg
SHEET	7 OF 37

C5.0



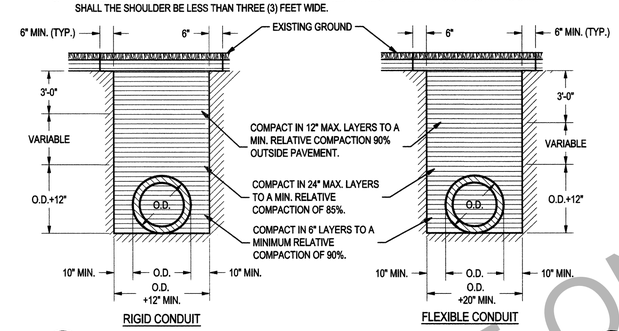
1 CLEANOUT DETAIL
NO SCALE



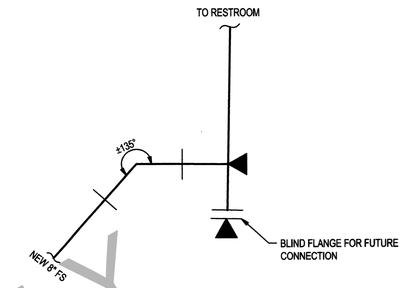
2 POST INDICATOR VALVE
NO SCALE

NOTES:

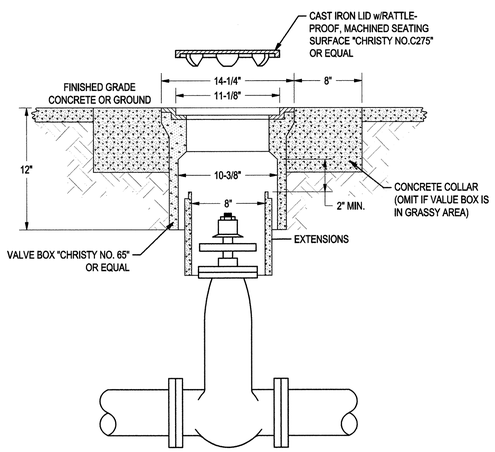
1. IF THERE IS A CONFLICT BETWEEN THE PLANS, THIS DETAIL AND CITY OF FREMONT STANDARD DETAIL NO. SD-30, THE CITY OF FREMONT STANDARDS SPECIFICATION SHALL PREVAIL.
2. RELATIVE COMPACTION OF MATERIALS SHALL BE TESTED IN ACCORDANCE WITH THE STAT OF CALIFORNIA, DEPT. OF TRANSPORTATION TESTING MANUALS, TEST METHOD NO. CALIFORNIA 216 OR 231.
3. WHEN SHOWN BY SOIL COMPOSITION AND COMPATIBILITY, NINETY PERCENT (90%) COMPACTION MAY BE USED, WHEN APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
4. SPECIAL BEDDING REQUIREMENTS MAY BE SHOWN ON THE PLANS OR SPECIFIED IN SPECIAL PROVISIONS.
5. SHOULDERS SHALL BE AS SHOWN ON THE PLANS OR SPECIFIED IN THE SPECIAL PROVISIONS BUY IN NO CASE SHALL THE SHOULDER BE LESS THAN THREE (3) FEET WIDE.



3 TRENCH SECTION
N.T.S.



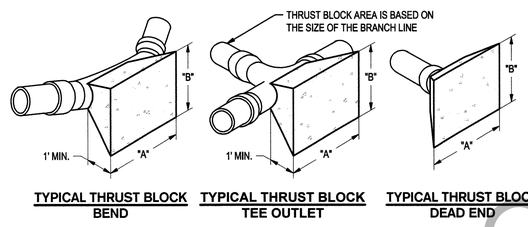
4 CONNECTION DETAIL
NOT TO SCALE



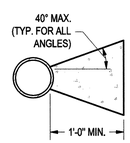
NOTES:

1. VALVE BOX AND LID SHALL BE "CHRISTY NO.G5" AND "CHRISTY NO.C272" OR EQUALS.
2. ALL LIDS SHALL HAVE MACHINE SEATING SURFACES.
3. EXTENSIONS SHALL BE AS MANUFACTURED FOR THE VALVE BOX SUPPLIED OR A.C. PIPE OF CORRECT SIZE MAY BE USED.
4. CONCRETE COLLAR SHALL BE CLASS "B" CONCRETE AND SHALL BE CONSTRUCTED TO FINISHED GRADE AFTER STREETS ARE PAVED.
5. GATE VALVE SHALL BE "KENNEDY HUB x HUB 573X, HUB x FLANGE 579X, OR FLANGE x FLANGE 561X" OR "MUELLER HUB x HUB A-2380-24, HUB x FLANGE A-2380-26, FLANGE x FLANGE A-2380-6," OR EQUAL.
6. GATE VALVE SHALL BE A.W.W.A. STANDARD IRON BODY, DOUBLE DISC, WITH NON-RISING STEM.

5 VALVE BOX DETAIL
NO SCALE



TYPICAL THRUST BLOCK BEND | TYPICAL THRUST BLOCK TEE OUTLET | TYPICAL THRUST BLOCK DEAD END



TYPICAL SECTION THRU THRUST BLOCK

NOTES:

1. IF THERE IS A CONFLICT BETWEEN THE PLANS, THIS DETAIL AND CITY OF FREMONT STANDARD SPECIFICATION , THE CITY OF FREMONT STANDARD SPECIFICATION SHALL PREVAIL.
2. ALL THRUST BLOCKS SHALL SHALL BE POURED AGAINST UNDISTURBED SOIL.
3. RESTRAINT SYSTEM FOR VERTICAL PIPE BENTS SHALL BE APPROVED BY THE CITY ENGINEER.
4. THRUST RESTRAINT SYSTEMS FOR PIPES LARGER THAN 12" SHALL BE DESIGNED ON A CASE BY CASE BASIS AND SHALL BE APPROVED BY THE CITY ENGINEER.

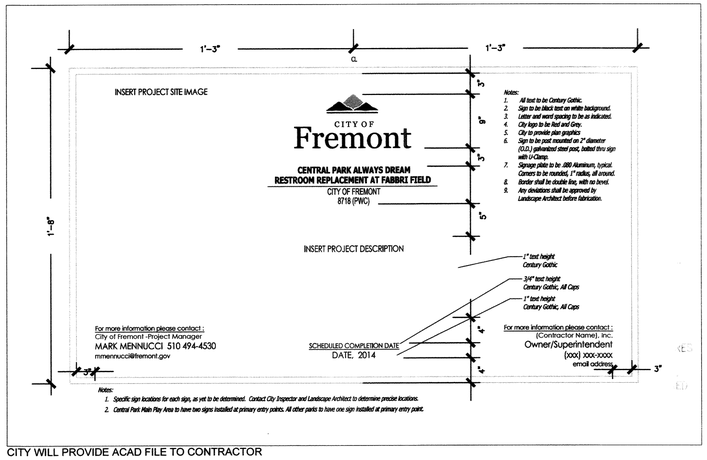
THRUST BLOCK AREA REQUIRED		
FITTINGS	ALLOWABLE SOIL BEARING VALUE	
	1000 LBS. PER SQ. FT.	
6" LINE OR SMALLER	"A"	"B"
1'-10 1/2"	1'-6"	1'-6"
45°	2'-0"	2'-0"
90°	3'-0"	2'-6"
TEE OUTLET	2'-6"	2'-0"
DEAD END	2'-6"	2'-0"
8" LINE		
1'-10 1/2"	2'-0"	2'-0"
45°	3'-0"	2'-6"
90°	4'-0"	3'-0"
TEE OUTLER	3'-0"	3'-0"
DEAD END	3'-0"	3'-0"

6 THRUST BLOCK CHART
NO SCALE

PIPE TABLE

TYPE OF PIPE	PIPE DIAMETER	TYPE & CLASS	BEDDING CLASS	THRUST BLOCKS
WATER	6" TO 12"	PVC DR19 CLASS 200 W/ TRACER WIRE	PER C.O.F. STDS. SECTION 5 & 7	PER C.O.F. STDS. SECTION 5 & 7 AND DETAIL 2 ON SHEET C6.0
	3/4" TO 3"	SCHEDULE 40 PVC		
SANITARY SEWER	2"	PVC SDR 35	PER C.O.F. STDS. SECTION 4	
STORM DRAIN	12"	SDR-35 PVC AND DUCTILE IRON PIPE (STATED ON PLAN)	PER C.O.F. STDS. SECTION 4	

7 PIPE DETAIL
NOT TO SCALE



CITY WILL PROVIDE ACAD FILE TO CONTRACTOR

8 PROJECT SITE SIGNAGE
NO SCALE

FOR CITY COUNCIL USE ONLY

CA: 800-227-2600 CALL BEFORE YOU DIG UNDERGROUND SERVICE ALERT NV: 800-227-2600

REGISTERED PROFESSIONAL ENGINEER RAHUL J. SCHNADER No. 62498 Exp. 09/30/19 CIVIL STATE OF CALIFORNIA

DATE SIGNED: 06/01/17

No.	Date	Revision	By
2	10/17/16	CYCLE 3 PLAN CHECK	RJS
3	05/10/17	CYCLE 4 PLAN CHECK	MWK
4	10/31/17	RE-BID	

CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

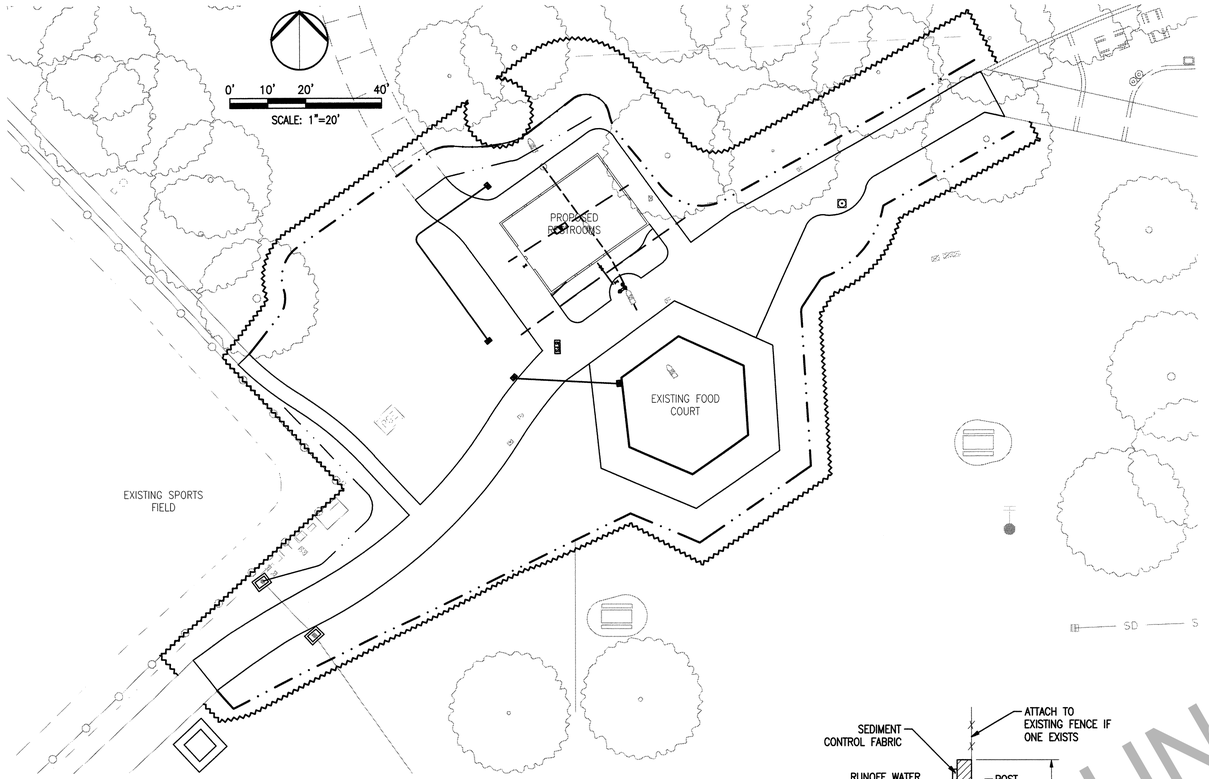
SITE DETAILS

CITY OF Fremont
COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

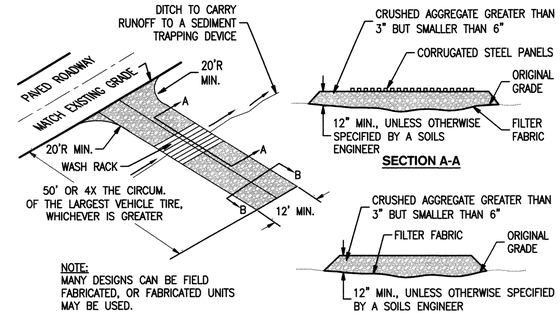
~~Reviewed -- Associate Land. Arch.~~ | Date | Recommended -- Project Manager | Date

Scale:	NONE
Designed By:	PJS
Drawn By:	RJN
Date:	10/17/2014
Project No.:	8718 (PWC)
CAD File:	12203-C6.0.dwg
SHEET 8	OF 37

C6.0



EROSION CONTROL PLAN
SCALE: 1" = 20'

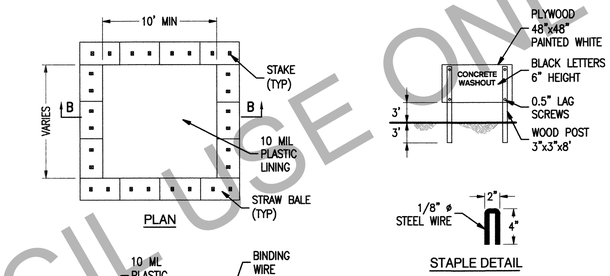


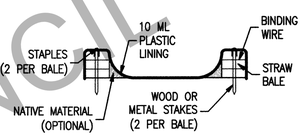
NOTE:
MANY DESIGNS CAN BE FIELD FABRICATED, OR FABRICATED UNITS MAY BE USED.

6 STABILIZED CONSTRUCTION ENTERANCE/OUTLET TIRE WASH
SCALE: NTS

EROSION CONTROL LEGEND

SYMBOL	DESCRIPTION
	SILT FENCE DET. 3
	DRAIN INLET PROTECTION TYPE 3 DET. 1
	UNCOMPLETED DRAIN INLET PROTECTION TYPE 2 DET. 2
	STRAW WITH BINDER
	STABILIZED CONSTRUCTION ENTRANCE TC-(1)(3) DET. 6
	CONCRETE WASHOUT DET. 5





SECTION B-B

NOTES:
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

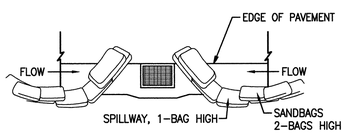
5 CONCRETE WASHOUT
SCALE: NTS

EROSION CONTROL GENERAL NOTES

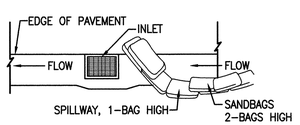
1. PLANS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW ALL OFFSETS. THE SITE IS DYNAMIC AND CHANGES ON A DAILY BASIS, CHANGES SHOULD BE MADE ACCORDING TO EXISTING CONDITIONS. BECAUSE IT IS IMPOSSIBLE TO PREDICT ALL POSSIBLE SITUATIONS, CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES TO ENSURE QUALITY CONTROL.
2. THE CONTRACTOR SHALL REVIEW THE CURRENT STORM WATER POLLUTION PREVENTION PLAN (SWPPP). IT IS THE CONTRACTORS SOLE RESPONSIBILITY FOR CONDUCTING HIS/HER OPERTATIONS IN ADHERANCE TO THE SWPPP. THE CONTRACTOR IS RESPONSIBLE FOR ANY FINES, DELAYS, AND/OR DAMAGES RESULTING FROM ANY STATE WATER QUALITY CONTROL BOARD SANCTIONS CAUSED BY THE OPERATION OF THE CONTRACTOR OF HIS/HER SUBCONTRACTORS.
3. THE FOLLOWING PLANS ARE ACCURATE FOR EROSION CONTROL PURPOSES ONLY. THE CONTRACTOR SHALL FOLLOW THESE PLANS UNLESS FIELD CONDITIONS DICTATE MODIFICATION. IF MODIFICATION IS NECESSARY, A SWPPP AMENDMENT MUST BE DONE. THIS MAY REQUIRE MODIFICATION TO THESE DRAWINGS AND ENGINEER CONCURRENCE.
4. INSPECT AND REPAIR FILTERS AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN 1/2 OF THE FILTER DEPTH HAS BEEN FILLED. REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA TRIBUTARY TO A SEDIMENT BASIN OR OTHER FILTERING MEASURE. SEDIMENT AND GRAVEL SHALL BE IMMEDIATELY REMOVED FROM PAVEMENT OF ROAD.
5. UNFINISHED AND DISTURBED ARE TO BE PROTECTED WITH AN APPLICATION OF BLOWN STRAW AND ORGANIC BINDER.

ITEM	LB/ACRE
STRAW	4,000
ORGANIC BINDER	200

6. ALTERNATE INLET PROTECTION SHALL BE USED ON ROADS OPEN TO THE PUBLIC IF ANY HAZARDOUS MATERIALS OR WASTES WHICH HAVE BEEN TREATED, STORED, DISPOSED, SPILLED, OR LEAKED IN SIGNIFICANT QUANTITIES ONTO THE CONSTRUCTION SITE, THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE THEM FROM THE SITE AND DISPOSE OF PROPERLY.
7. CHLORINATED OR DECHLORINATED WATER SHALL NOT BE DISCHARGED INTO THE STORM DRAIN SYSTEM. THE CONTRACTOR MAY DISPOSE THIS WATER INTO THE SANITARY SEWER SYSTEM UPON APPROVAL BY THE GOVERNING AGENCY.
8. THE CONTRACTOR SHALL KEEP MAINTENANCE, INSPECTION, AND REPAIR PROCEDURES TO ENSURE THAT ALL GRADED SURFACES, WALLS, BERMS, DRAINAGE STRUCTURES, VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES, AND OTHER CONTROLS ARE MAINTAINED IN GOOD AND EFFECTIVE CONDITION AND ARE PROMPTLY REPAIRED OR RESTORED WHEN NECESSARY. ANY DEWATERING WATER SHALL NOT BE DISCHARGED DIRECTLY INTO THE STORM WATER SYSTEM, AND SHALL NOT BE DISCHARGED INTO THE SEWER SYSTEM.
9. ALL DEWATERING WATER MUST BE CHANNELED THROUGH AN APPROVED SEDIMENT BARRIER PRIOR TO THE WATER ENTERING THE STORM SYSTEM.
10. PAVEMENT CLEANING– FLUSHING OF STREETS/ PARKING LOTS TO REMOVE DIRT AND CONSTRUCTION DEBRIS IS PROHIBITED UNLESS PROPER SEDIMENT CONTROLS ARE USED. PREFERABLY, AREAS REQUIRING CLEANING SHOULD BE SWEPT.
11. ALL STOCKPILES OF MATERIALS THAT ARE NOT GOING TO BE USED FOR 14 DAYS SHALL BE COVERED.
12. CONTRACTOR TO USE BEST MANAGEMENT PRACTICES (BMPs) THROUGHOUT CONSTRUCTION. USE ALL BMPs THAT APPLY TO THE PROJECT, INCLUDING BUT NOT LIMITED TO THE FOLLOWING BMPs:
    - A. DRAIN INLET PROTECTION – CALIFORNIA STORMWATER BMP HANDBOOK SECTION SE-10
    - B. SOLID WASTE MANAGEMENT – CALIFORNIA STORMWATER BMP HANDBOOK SECTION WM-5
    - C. MATERIAL STORAGE – CALIFORNIA STORMWATER BMP HANDBOOK SECTION WM-1
    - D. PAVING – CALIFORNIA STORMWATER BMP HANDBOOK SECTION NS-3
    - E. DUST CONTROL, SEDIMENT CONTROL, EROSION CONTROL AND CONCRETE WASHOUT AREAS – SHOWN ON THIS SHEET WITH DETAILS



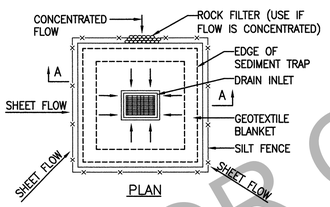
TYPICAL PROTECTION FOR INLET ON SUMP



TYPICAL PROTECTION FOR INLET ON GRADE

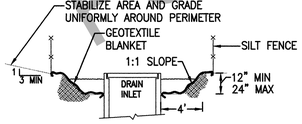
NOTES:
1. INTENDED FOR SHORT-TERM USE.
2. USE TO INHIBIT NON-STORM WATER FLOW.
3. ALLOW FOR PROPER MAINTENANCE AND CLEANUP.
4. BAGS MUST BE REMOVED AFTER ADJACENT OPERATION IS COMPLETED.
5. NOT APPLICABLE IN AREAS WITH HIGH SILTS AND CLAYS WITHOUT FILTER FABRIC.

1 DROP INLET PROTECTION TYPE 3
SCALE: NTS



PLAN

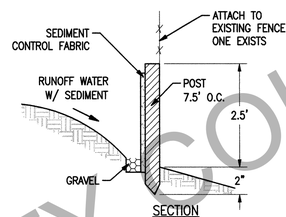
NOTE:
REMOVE SEDIMENT BEFORE REACHING 1/3 FULL.



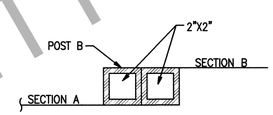
SECTION A–A

NOTES:
1. FOR USE IN CLEARED AND GRUBBED AND IN GRADED AREAS.
2. SHAPE BASIN SO THAT LONGEST INFLOW AREA FACES LONGEST LENGTH OF TRAP.
3. FOR CONCENTRATED FLOWS, SHAPE BASIN IN 2:1 RATION WITH LENGTH ORIENTED TOWARDS DIRECTION OF FLOW.

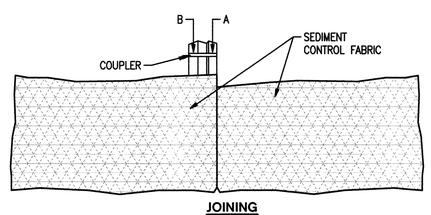
2 DI PROTECTION - TYPE 2
SCALE: NTS



SECTION

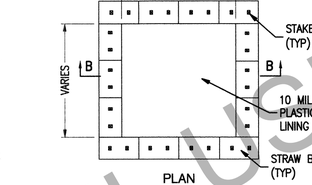


PLAN VIEW

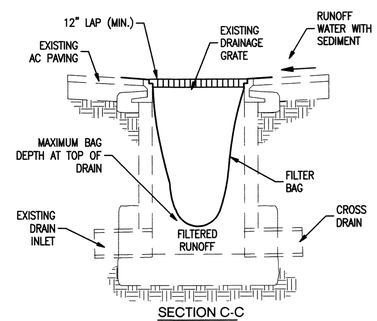


JOINING

3 SILT FENCE DETAIL
SCALE: NTS



PLAN VIEW



SECTION C-C

4 TEMPORARY GRAVEL BAG FILTER AT DROP INLET
SCALE: NTS

FOR CITY COUNCIL USE ONLY

CA: 800-227-2600
NV: 800-227-2600

REGISTERED PROFESSIONAL ENGINEER
PAUL J. SCHNEIDER
No. 62498
Exp. 09/30/19
CIVIL
STATE OF CALIFORNIA

DATE SIGNED: 06/01/17

No.	Date	Revision	By
1			
2	10/17/16	CYCLE 3 PLAN CHECK	RJS
3	05/10/17	CYCLE 4 PLAN CHECK	MWK
4	10/31/17	RE-BID	
5			

CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

EROSION CONTROL PLAN

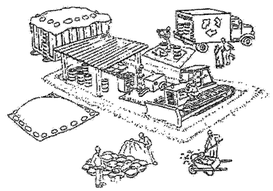
CITY OF Fremont
COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed -- Associate Land. Arch.~~ | Date | Recommended -- Project Manager | Date

Scale:	NONE
Designed By:	PJS
Drawn By:	RJN
Date:	10/17/2014
Project No.:	8718 (PWC)
CAD File:	12203-C7.0.dwg
SHEET 9	OF 37

C7.0

Clean Bay Blue Print



Make sure your crews and subs do the job right!

Runoff from streets and other paved areas is a major source of pollution and damage to creeks and the San Francisco Bay. Construction activities can directly affect the health of creeks and the Bay unless contractors and crews plan ahead to keep dirt, debris, and other construction waste away from storm drains and local creeks. Following these guidelines and the project specifications will ensure your compliance with City of Fremont requirements.

Materials storage & spill cleanup

Non-hazardous materials management

- Sand, dirt, and similar materials must be stored at least 10 feet (3 meters) from catch basins. All construction material must be covered with a tarp and contained with a perimeter control during wet weather or when rain is forecasted or when not actively being used within 14 days.
- Use (but don't overuse) reclaimed water for dust control as needed.
- Sweep or vacuum streets and other paved areas daily. Do not wash down streets or work areas with water!
- Recycle all asphalt, concrete, and aggregate base material from demolition activities. Comply with City of Fremont Ordinances for recycling construction materials, wood, gyp board, pipe, etc.
- Check dumpsters regularly for leaks and to make sure they are not overfilled. Repair or replace leaking dumpsters promptly.
- Cover all dumpsters with a tarp at the end of every work day or during wet weather.

Hazardous materials management

- Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state, and federal regulations.
- Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecasted.
- Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecasted within 24 hours.
- Be sure to arrange for appropriate disposal of all hazardous wastes.

Spill prevention and control

- Keep a stockpile of spill cleanup materials (rags, absorbents, etc.) available at the construction site at all times.
- When spills or leaks occur, contain them immediately and be particularly careful to prevent leaks and spills from reaching the gutter, street, or storm drain. Never wash spilled material into a gutter, street, storm drain, or creek!
- Dispose of all containment and cleanup materials properly.
- Report any hazardous materials spills immediately! Dial 911

Construction Entrances and Perimeter

- Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.
- Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking.

Vehicle and equipment maintenance & cleaning

- Inspect vehicles and equipment for leaks frequently. Use drip pans to catch leaks until repairs are made; repair leaks promptly.
- Fuel and maintain vehicles on site only in a bermed area or over a drip pan that is big enough to prevent runoff.
- If you must clean vehicles or equipment on site, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or creeks.
- Do not clean vehicles or equipment on-site using soaps, solvents, degreasers, steam cleaning equipment, etc.

Earthwork & contaminated soils

- Keep excavated soil on the site where it will not collect in the street.
- Transfer to dump trucks should take place on the site, not in the street.
- Use fiber rolls, silt fences, or other control measures to minimize the flow of silt off the site.

- Earth moving activities are only allowed during dry weather by permit and as approved by the City Inspector in the Field.
- Mature vegetation is the best form of erosion control. Minimize disturbance to existing vegetation whenever possible.
- If you disturb a slope during construction, prevent erosion by securing the soil with erosion control fabric, or seed with fast-growing grasses as soon as possible. Place fiber rolls down-slope until soil is secure.
- If you suspect contamination (from site history, discoloration, odor, texture, abandoned underground tanks or pipes, or buried debris), call the Engineer for help in determining what should be done, and manage disposal of contaminated soil according to their instructions.

Dewatering operations

- Effectively manage all run-on, all runoff within the site, and all runoff that discharges from the site. Run-on from off site shall be directed away from all disturbed areas or shall collectively be in compliance.
- Reuse water for dust control, irrigation, or another on-site purpose to the greatest extent possible.

- Be sure to notify and obtain approval from the Engineer before discharging water to a street, gutter, or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- In areas of known contamination, testing is required prior to reuse or discharge of groundwater. Consult with the Engineer to determine what testing is required and how to interpret results. Contaminated groundwater must be treated or hauled off-site for proper disposal.

Saw cutting

- Always completely cover or barricade storm drain inlets when saw cutting. Use filter fabric, catch basin inlet filters, or sand/gravel bags to keep slurry out of the storm drain system.
- Shovel, absorb, or vacuum saw-cut slurry and pick up all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- If saw cut slurry enters a catch basin, clean it up immediately.

Paving/asphalt work

- Always cover storm drain inlets and manholes when paving or applying seal coat, tack coat, slurry seal, or fog seal.
- Protect gutters, ditches, and drainage courses with sand/gravel bags, or earthen berms.
- Do not sweep or wash down excess sand from sand sealing into gutters, storm drains, or creeks. Collect sand and return it to the stockpile, or dispose of it as trash.
- Do not use water to wash down fresh asphalt concrete pavement.

Concrete, grout, and mortar storage & waste disposal

- Store concrete, grout, and mortar under cover, on pallets, and away from drainage areas. These materials must never reach a storm drain.
- Wash out concrete equipment/trucks off-site or into contained washout areas that will not allow discharge of wash water onto the underlying soil or onto the surrounding areas.

- Collect the wash water from washing exposed aggregate concrete and remove it for appropriate disposal off site.

Painting

- Never rinse paint brushes or materials in a gutter or street!
- Paint out excess water-based paint before rinsing brushes, rollers, or containers in a sink.
- Paint out excess oil-based paint before cleaning brushes in thinner.
- Filter paint thinners and solvents for reuse whenever possible. Dispose of oil-based paint sludge and unusable thinner as hazardous waste.

Landscape Materials

- Contain, cover, and store on pallets all stockpiled landscape materials (mulch, compost, fertilizers, etc.) during wet weather or when rain is forecasted or when not actively being used within 14 days.
- Discontinue the application of any erodible landscape material within 2 days of forecasted rain and during wet weather.

FOR CITY COUNCIL USE ONLY

Storm drain polluters may be liable for fines of $10,000 or more per day!

For references and more detailed information:
www.cleanwaterprogram.org
www.cabmphandbooks.com

CA: 800-227-2600 — CALL BEFORE YOU DIG — UNDERGROUND SERVICE ALERT — NV: 800-227-2600

REGISTERED PROFESSIONAL ENGINEER — PAUL Y. SCHNADER — No. 62498 — Exp. 09/30/19 — CIVIL — STATE OF CALIFORNIA

DATE SIGNED: 06/01/17

No.	Date	Revision	By
1	09/16/15	FIRST PLAN CHECK	RJS
2	10/17/16	CYCLE 3 PLAN CHECK	RJS
3	05/10/17	CYCLE 4 PLAN CHECK	MWK
4	10/31/17	RE-BID	
5			

CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD
CLEAN BAY BLUE PRINT

CITY OF Fremont — COMMUNITY SERVICES DEPARTMENT — LANDSCAPE ARCHITECTURE

~~Reviewed -- Associate Land. Arch.~~ | Date | Recommended -- Project Manager | Date

Scale:	NONE
Designed By:	PJS
Drawn By:	RJN
Date:	10/17/2014
Project No.:	8718 (PWC)
CAD File:	12203-C8.0.dwg
SHEET 10	OF 37

C8.0

FIRE AND LIFE SAFETY BUILDING NOTES:

1. REFER TO C.B.C., CHAPTER 10, "MEANS OF EGRESS" AND C.F.C, ARTICLE 12, "MAINTENANCE OF MEANS OF EGRESS AND EMERGENCY ESCAPES", FOR COMPLIANCE FOR THE FOLLOWING ITEMS.
2. EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
3. EXIT DOORS SHALL BE NO LESS THAN 36" WIDE x 6'-8" HIGH. MUST OPEN OVER A LANDING NOT MORE THAN 1/2" BELOW THE THRESHOLD.
4. FOR APPROVED ONE-HOUR, FIRE RESISTIVE CORRIDOR TO COMPLY WITH C.B.C., CHAP 10, SECTION 1018.
5. ALL CORRIDOR OPENINGS SHALL MEET THE REQUIREMENTS OF C.B.C., CHAPTER 10, INCLUDING STEEL, FRAMES, 20-MINUTE LABELED DOORS, HINGES, LATCHING DEVICES, AND CLOSER.
6. EXITING THROUGH KITCHENS, STOREROOMS, RESTROOMS, CLOSETS OR SPACES USED FOR SIMILAR PURPOSES IS NOT PERMITTED.
7. FIRE EXTINGUISHER REQUIREMENT SHALL BE DETERMINED BY FIELD INSPECTION.
8. BUILDING ADDRESS NUMBERS TO BE PROVIDED ON THE FRONT OF ALL BUILDINGS AND SHALL BE VISIBLE AND LEGIBLE FROM STREET FRONTING THE PROPERTY. SAID NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND TO COMPLY WITH C.F.C. SECTION 901.44.
9. INDICATED ON THE PLANS WILL BE OCCUPANCY, TYPE OF CONSTRUCTION, AND BUILDING JUSTIFICATION.
10. ALL WINDOWS SHALL MEET THE REQUIREMENTS OF C.B.C., CHAPTER 7, INCLUDING STEEL FRAMES, 10 MIN. LABELED DOORS, HINGES, LATCHES, LATCHING DEVICES, AND CLOSER.
11. EXIT DOORS SHALL SWING IN THE DIRECTION OF EGRESS, C.B.C., SECTION 1008.12 AND C.F.C., SECTION 1207.4.
12. PROVIDE APPROVED PANIC HARDWARE ON EXIT DOORS, C.B.C., SECTION 1008 AND C.F.C., SECTION 1207.4.
13. PROVIDE ONE HOUR FIRE RESISTIVE CONSTRUCTION IN ALL VERTICAL SHAFTS, C.B.C., CHAPTER 712 & 713.
14. SHAFT ENCLOSURES REQUIRED FOR ALL INTERIOR PUBLIC STAIRWAYS. ENCLOSURES SHALL BE CONTINUOUS UNTIL EGRESS IS PROVIDED FROM THE BUILDING.
15. EXITING THROUGH MORE THAN ONE INTERVENING ROOM IS NOT PERMITTED FOR AN OCCUPANT LOAD OF MORE THAN 10. C.B.C., SECTION 1004.1.
16. CORRIDORS AND EXTERIOR EXIT BALCONIES SHALL HAVE A MINIMUM WIDTH OF 36" AND 7' CLEAR HEIGHT TO LOWEST PROJECTION. COMPLY WITH C.B.C., CHAP 10.

CORRIDORS AND AISLES

1. REFER TO C.B.C., CHAPTER 10, "MEANS OF EGRESS", FOR THE FOLLOWING ITEMS OR UNLESS NOTED OTHERWISE.
2. EVERY CORRIDOR SERVING AN OCCUPANT LOAD OF 10 OR MORE SHALL BE NOT LESS IN WIDTH THAN 44".
3. CORRIDORS THAT EXCEED 200 FT. IN LENGTH SHALL:
   A. HAVE A MINIMUM CLEAR WIDTH OF 60", OR
   B. HAVE, AT A CENTRAL LOCATION, A 60" X 60" MIN. WHEELCHAIR TURNING SPACE OR PASSING ALCOVE AND OR,
   C. HAVE, AT A CENTRAL LOCATION, AN INTERVENING CROSS OR TEE CORRIDOR, MINIMUM OF 44" IN WIDTH AND OR,
   D. HAVE, AT A CENTRAL LOCATION, AN OPERABLE DOOR.
4. EVERY PORTION OF EVERY BUILDING IN WHICH ARE INSTALLED SEATS, TABLES, MERCHANDISE, EQUIPMENT OR SIMILAR MATERIALS SHALL BE PROVIDED WITH AISLES LEADING TO AN EXIT.
5. EVERY AISLE SHALL BE NOT LESS THAN 3' WIDE IF SERVING ONLY ONE SIDE, AND NOT LESS THAN 3'-6" WIDE IF SERVING BOTH SIDES. SUCH MINIMUM WIDTH SHALL BE MEASURED AT THE POINT FARTHEST FROM AN EXIT, CROSS AISLE OR FOYER AND SHALL BE INCREASED BY 1-1/2" FOR EACH 5' IN LENGTH TOWARD THE EXIT, CROSS AISLE OR FOYER. WITH CONTINENTAL SEATING, SIDE AISLES SHALL BE NOT LESS THAN 44" IN WIDTH.

SOUND TRANSMISSION NOTES

1. DOORS TO UNITS FROM INTERIOR CORRIDORS SHALL HAVE A MINIMUM SOUND TRANSMISSION CONTROL (STC) RATING OF 30, C.B.C., APPENDIX 12.
2. ELECTRICAL OUTLET BOXES IN OPPOSITE FACES OF SEPARATION WALLS SHALL BE SEPARATED HORIZONTALLY BY 24". BACK AND SIDES OF BOXES TO BE SEALED WITH 1/8" RESILIENT SEALANT AND BACKED WITH 2" MINIMUM MINERAL FIBER INSULATION. (T.V., TELEPHONE AND INTERCOM OUTLETS MUST BE INSTALLED ACCORDINGLY.)
3. SURFACE MATERIALS (INCLUDING CARPETS) ARE PART OF THE FLOOR/CEILING ASSEMBLY AND MUST BE INSTALLED AND INSPECTED BEFORE THE CERTIFICATE OF OCCUPANCY IS ISSUED.
4. APPROVED ACOUSTICAL SEALANT SHALL BE PROVIDED ALONG THE JOINT BETWEEN THE FLOOR AND THE SEPARATION WALL.
5. ALL PENETRATIONS INTO SOUND RATED PARTITIONS OF FLOOR/CEILING ASSEMBLIES SHALL BE SEALED WITH APPROVED PERMANENT RESILIENT SEALANT.
6. ALL RIGID CONDUIT, DUCTS, PLUMBING PIPES AND APPLIANCE VENTS LOCATED IN SOUND ASSEMBLIES SHALL BE ISOLATED FROM THE BUILDING CONSTRUCTION BY MEANS OF RESILIENT SLEEVES, MOUNTS, OR MIN. 1/4" THICK APPROVED RESILIENT MATERIAL. (GAS PIPING NEED NOT BE ISOLATED).
7. METAL VENTILATING AND CONDITIONED AIR DUCTS LOCATED IN SOUND ASSEMBLIES SHALL BE LINED. (DUCTS SERVING ONLY EXITWAYS, KITCHEN COOKING FACILITIES AND BATHROOMS NEED NOT BE LINED).
8. MINERAL FIBER INSULATION SHALL BE INSTALLED IN JOIST SPACES TO A POINT 12" BEYOND THE PIPE OR DUCT, WHENEVER A PLUMBING PIPE OR DUCT PENETRATES A FLOOR/CEILING ASSEMBLY OR WHERE SUCH UNIT PASSES THROUGH THE PLANE OF THE FLOOR/CEILING ASSEMBLY FROM WITHIN A WALL.
9. KITCHEN AND BATHROOM FLOORS TO HAVE A MINIMUM STC RATING OF 50 AS PER RGA 1-79.

PEDESTRIAN RAMPS:

1. A PATH OF TRAVEL WITH A SLOPE EXCEEDING 1:20 (5%) SHALL BE CONSIDERED A RAMP.
2. THE MAXIMUM SLOPE IS 1:12 (8.33%).
3. THE MAXIMUM CROSS SLOPE AT RAMPS SHALL NOT EXCEED 1/4" PER FOOT (2%).
4. RAMP SURFACES SHALL BE SLIP RESISTANT.
5. LANDINGS ARE REQUIRED AT THE TOP AND BOTTOM OF ALL RAMPS. THE BOTTOM LANDING SHALL BE A MINIMUM OF 72" IN THE DIRECTION OF TRAVEL AND THE TOP LANDING SHALL BE A MINIMUM OF 60" X 60" IN THE DIRECTION OF TRAVEL.
6. A 60" INTERMEDIATE LANDING IS REQUIRED AT MAXIMUM ELEVATION CHANGES OF 30". A 72" LANDING IS REQUIRED AT DIRECTION CHANGES EXCEEDING 30 DEGREES.
7. WHEN A DOOR SWINGS OVER THE TOP LANDING, THE MINIMUM DEPTH OF THE LANDING SHALL BE EQUAL TO THE DOOR WIDTH, PLUS 42".
8. STRIKE EDGE DISTANCES TO DOOR SHALL BE 24" AT EXTERIOR RAMPS (AND 18" AT INTERIOR RAMPS).
9. WHEN THE SLOPE EXCEEDS 1:20 (5%), HANDRAILS ARE REQUIRED AT EACH SIDE.
10. HANDRAILS SHALL MEET THE FOLLOWING REQUIREMENTS:
    A. BE CONTINUOUS.
    B. LOCATED 34" TO 38" IN HEIGHT ABOVE THE RAMP SURFACE.
    C. BE 1 1/4" TO 1 1/2" IN CROSS SECTION, AND PLACED 1 1/2" FROM WALLS.
    D. HAVE 12" EXTENSIONS BEYOND THE TOP AND BOTTOM.
    E. ENDS SHALL BE RETURNED.
11. IF RAMP EXCEEDS 10'-0" IN LENGTH AND IS NOT BOUNDED BY WALLS OR CURBS, WHEEL GUIDES SHALL BE PROVIDED.
12. WALL SURFACES, ADJACENT TO HANDRAILS, SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS.
13. PEDESTRIAN RAMPS OTHER THAN THOSE SERVING PRIMARY ENTRANCES TO BUILDINGS SHALL HAVE A CLEAR WIDTH NOT LESS THAN THE WIDTH REQUIRED FOR EXITS.
14. PEDESTRIAN RAMPS SERVING ENTRANCES TO BUILDINGS SHALL BE A MINIMUM 48" CLEAR WIDTH BUT NOT LESS THAN THE WIDTH REQUIRED FOR EXITS.
15. PEDESTRIAN RAMPS SERVING PRIMARY ENTRANCES TO BUILDINGS HAVING AN OCCUPANT LOAD OF 300 OR MORE SHALL HAVE A MINIMUM CLEAR WIDTH OF 60".
16. THE WIDTH OF THE LANDING SHALL EXTEND 24" PAST THE STRIKE EDGE OF ANY DOOR OR GATE FOR EXTERIOR RAMPS AND 18" PAST THE STRIKE EDGE FOR INTERIOR RAMPS.
17. OTHER INTERMEDIATE LANDINGS SHALL HAVE A DIMENSION IN THE DIRECTION OF RAMPS RUN OF NOT LESS THAN 60".
18. RAMP WIDTH SHALL BE NOT LESS THAN THAT FOR STAIRS OF EXITS, MAY BE 36" MIN. IF SERVING AN R OCCUPANCY WITH AN OCCUPANT LOAD OF 50 OR LESS, SHALL BE 60" MIN. IF SERVING THE PRIMARY ENTRANCE OF A BUILDING WITH AN OCCUPANT LOAD OF 300 OR MORE AND SHALL BE 48' MIN. OTHERWISE.

ENTRANCES

1. ALL PRIMARY ENTRANCES TO BUILDINGS AND FACILITIES SHALL BE MADE ACCESSIBLE TO THE PHYSICALLY DISABLED.
2. ALL ACCESSIBLE ENTRANCES SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, VISIBLE FROM APPROACHING PEDESTRIAN WAYS.
3. EVERY REQUIRED ENTRANCE OR PASSAGE DOORWAY SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 3' IN WIDTH AND NOT LESS THAN 6'-8" IN HEIGHT. DOORS SHALL BE CAPABLE OF OPENING AT LEAST 90 DEGREES AND SHALL BE SO MOUNTED THAT THE CLEAR WIDTH OF THE DOORWAY IS NOT LESS THAN 32".
4. WHERE A PAIR OF DOORS IS UTILIZED, AT LEAST ONE OF THE DOORS SHALL PROVIDE A CLEAR UNOBSTRUCTED OPENING WIDTH OF 32" WITH THE LEAF POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
5. WHEN AN AUTOMATIC DOOR OPERATOR IS UTILIZED TO OPERATE A PAIR OF DOORS, AT LEAST ONE OF THE DOORS SHALL PROVIDE A CLEAR UNOBSTRUCTED OPENING WIDTH OF 32-INCHES WITH THE DOOR POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
6. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL, SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE.
7. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 30" AND 44" ABOVE THE FLOOR.
8. THE FLOOR OR LANDING ON EACH SIDE OF AN ENTRANCE OR PASSAGE DOOR SHALL BE LEVEL AND CLEAR. THE LEVEL AND CLEAR AREA SHALL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF AT LEAST 60" AND THE LENGTH OPPOSITE THE DIRECTION OF DOOR SWING OF 44" AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN ITS CLOSED POSITION.
9. THE WIDTH OF THE LEVEL AND CLEAR AREA ON THE SIDE TO WHICH THE DOOR SWINGS SHALL EXTEND 24" PAST THE STRIKE EDGE OF THE DOOR FOR EXTERIOR DOORS AND 18" PAST THE STRIKE EDGE FOR INTERIOR DOORS.
10. THE FLOOR OR LANDING SHALL BE NOT MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGE IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1.2.
11. THE BOTTOM 10" OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAME DOORS ARE USED, A 10" HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
12. A NARROW FRAME WITH A BEVELED TOP EDGE (30 DEGREES MAXIMUM BEVEL TO VERTICAL PLANE) INSTALLED AT THE BOTTOM OF A GLASS DOOR (WITH NO SIDE FRAMES) MAY BE USED IN LIEU OF PROVIDING THE REQUIRED 10" UNINTERRUPTED SURFACE AT THE BOTTOM OF THE DOOR.
13. THE SPACE BETWEEN TWO CONSECUTIVE DOOR OPENINGS IN A VESTIBULE SERVING OTHER THAN A REQUIRED EXIT STAIRWAY SHALL PROVIDE A MINIMUM OF 48" OF CLEAR SPACE FROM ANY DOOR OPENING INTO SUCH VESTIBULE WHEN THE DOOR IS POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION. DOORS IN A SERIES SHALL SWING EITHER IN THE SAME DIRECTION OR AWAY FROM THE SPACE BETWEEN THE DOORS.
14. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED NOT TO EXCEED 15 POUNDS.
15. WHERE TURNSTILES ARE UTILIZED IN A FACILITY FOR THE PURPOSE OF PROVIDING FULLY CONTROLLED ACCESS, A DOOR OR GATE THAT IS ACCESSIBLE TO THE PHYSICALLY DISABLED, SHALL BE PROVIDED ADJACENT TO OR WITHIN A DISTANCE NOT TO EXCEED 30' FROM EACH TURNSTILE EXIT OR ENTRANCE.

CURB RAMPS:

1. REFER TO C.B.C, CHAPTER 11B, "SITE ACCESSIBILITY", OR NOTED OTHERWISE FOR THE FOLLOWING ITEMS. CURB RAMPS SHALL BE CONSTRUCTED AT EACH CORNER OF STREET AND WHERE PEDESTRIAN PATHS CROSS A CURB.
2. CURB RAMPS SHALL BE A MINIMUM OF 48" WIDE WITH A MAXIMUM SLOPE OF 1:12 (8.33 PERCENT). THE LOWER END OF EACH CURB RAMP SHALL HAVE A 1/2" LIP BEVELED AT 45 DEGREES.
3. THE LOADING AT THE TOP OF THE CURB SHALL BE LEVEL AND 48" MINIMUM DEPTH FOR THE ENTIRE WIDTH OF THE CURB RAMP. THE SLOPE OF THE FANNED OR FLARED SIDES SHALL NOT EXCEED 1:10 (10 PERCENT) SLOPE.
4. THE SURFACE OF ANY CURB RAMPS AND ITS FLARED SIDES SHALL BE SLIP RESISTANT AND CONTRASTING FROM THE ADJACENT SIDEWALK FINISH.
5. ALL CURB RAMPS SHALL HAVE A GROOVED BORDER 12" WIDE AT THE LEVEL SURFACE OF THE SIDEWALK ALONG THE TOP AND EACH SIDE. GROOVES SHALL BE APPROXIMATELY 3/4" ON CENTER.
6. AT RAMPS WITH SLOPES BETWEEN 1:20 TO 1:15, PROVIDE DETECTABLE WARNINGS EXTENDING THE FULL WIDTH AND DEPTH OF THE CURB RAMP INSIDE THE GROOVED BORDER. THESE SHALL BE RAISED, TRUNCATED DOMES WITH A DIAMETER OF 0.9" AT THE BASE, TAPERING TO 0.45" AT THE TOP, AND A HEIGHT OF NOMINAL 0.2". SPACING SHALL BE 2.35" CENTER TO CENTER. "NOMINAL" AS USED HERE SHALL BE IN ACCORDANCE WITH STATE REFERENCED STANDARDS CODE. THE DETECTABLE WARNING SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACES. THE DOMES MAY BE CONSTRUCTED IN A VARIETY OF METHODS, INCLUDING CAST IN PLACE OR STAMPED, OR MAY BE A PART OF A PREFABRICATED SURFACE TREATMENT.

HAZARDS AND PROTRUDING OBJECTS

1. OBJECTS PROJECTING FROM WALLS (FOR EXAMPLE, TELEPHONES) WITH THEIR LEADING EDGES BETWEEN 27" AND 80" ABOVE THE FINISHED FLOOR SHALL PROTRUDE ANY AMOUNT.
2. OBJECTS MOUNTED WITH THEIR LEADING EDGES AT OR BELOW 27" ABOVE THE FINISHED FLOOR MAY PROTRUDE ANY AMOUNT.
3. FREE-STANDING OBJECTS MOUNTED ON POSTS OR PYLONS MAY OVERHANG 12" MAXIMUM FROM 27" TO 80" ABOVE THE GROUND OR FINISHED FLOOR.
4. PROTRUDING OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH OF AN ACCESSIBLE ROUTE OR MANEUVERING SPACE.
5. ANY OBSTRUCTION OVERHANGING A PEDESTRIAN WAY SHALL BE A MINIMUM OF 80" ABOVE THE WALKING SURFACE AS MEASURED TO THE BOTTOM OF THE OBSTRUCTION.
6. WALKS, HALLS, CORRIDORS, PASSAGEWAYS, AISLES OR OTHER CIRCULATION SPACES SHALL HAVE 80" MINIMUM CLEAR HEAD ROOM.
7. ABRUPT CHANGES IN LEVEL, EXCEPT BETWEEN A WALK OR SIDEWALK AND AN ADJACENT STREET OR DRIVEWAY, EXCEEDING 4" IN A VERTICAL DIMENSION, SUCH AS AT PLANTERS OR FOUNTAINS LOCATED IN OR ADJACENT TO WALKS, SIDEWALKS, OR OTHER PEDESTRIAN WAYS SHALL BE IDENTIFIED BY CURBS PROJECTING AT LEAST 6" IN HEIGHT ABOVE THE WALK OR SIDEWALK SURFACES TO WARN THE BLIND OF A POTENTIAL DROP-OFF. WHEN A GUARDRAIL OR HANDRAIL IS PROVIDED, NO CURB IS REQUIRED WHEN A GUIDE RAIL IS PROVIDED CENTER 3" PLUS OR MINUS 1" ABOVE THE SURFACE OF THE WALK OR SIDEWALK, THE WALK IS 5 PERCENT OR LESS GRADIENT OR NO ADJACENT HAZARD EXISTS.
8. THE EDGES OF BOARDING PLATFORMS IN TRANSPORTATION TERMINALS OR IN SIMILAR FACILITIES SHALL BE IDENTIFIED BY A LIGHT-COLORED BAND OF CLEARLY CONTRASTING TEXTURE AND COLOR AT LEAST 18" IN WIDTH. CONTRASTING STRIPING WITH THIS BANK, OR OTHER ALTERNATIVES TO THE ABOVE, WILL BE PERMITTED WHERE THE RESULTANT PATTERNS, COLOR OR ALTERNATIVE ADEQUATELY IDENTIFY THE PLATFORM EDGE.
9. WHERE A GUY WIRE SUPPORT IS USED PARALLEL TO THE PATH OF TRAVEL, A DEVICE SHALL BE USED TO PREVENT AN OBSTRUCTION LOWER THAN 80". SEE FIGURE 33-4B IN THE CALIFORNIA STATE ACCESSIBILITY STANDARDS INTERPRETIVE MANUAL.
10. IF A WALK CROSSES OR ADJOINS A VEHICULAR WAY AND THE WALKING SURFACES ARE NOT SEPARATED BY CURBS OR OTHER ELEMENTS, THE BOUNDARY SHALL BE DEFINED BY A CONTINUOUS DETECTABLE WARNING WHICH IS 36" IN WIDTH. THE SURFACE SHALL BE RAISED TRUNCATED DOMES IN STAGGERED PATTERN WITH A NOMINAL DIAMETER OF 0.9" AT THE BASE TAPERING TO 0.45" AT THE TOP, HEIGHT OF 0.2", AND CENTER TO CENTER SPACING OF NOMINAL 2.35".
11. AT TRANSIT BOARDING PLATFORMS, THE PEDESTRIAN ACCESS SHALL BE IDENTIFIED WITH A DIRECTIONAL DETECTABLE TEXTURE. THE RAISED BARS SHALL BE 1.3" WIDE AND 3" FROM CENTER TO CENTER OF EACH BAR. THIS SURFACE SHALL BE PLACED BEHIND YELLOW DETECTABLE WARNING TEXTURE (TRUNCATED DOMES) AND ALIGNED WITH ALL DOORS OF TRANSIT VEHICLES.
12. IF CARPET OR CARPET TILE IS USED ON A FLOOR SURFACE, IT SHALL HAVE A FIRM BACKING OR NO BACKING. THE MAXIMUM PILE HEIGHT SHALL BE 1/2". EXPOSED EDGES OF CARPET SHALL BE FASTENED TO SURFACES AND HAVE TRIM ALONG THE ENTIRE EXPOSED EDGE AND SHALL COMPLY WITH THE REQUIREMENTS FOR CHANGES IN LEVEL.

ENERGY INSULATION (CALIFORNIA ADMINISTRATIVE CODE T-24, SECTIONS T-20-1451 THROUGH 20-1542)

1. PROVIDE ENERGY CERTIFICATE OF COMPLIANCE AND CALCULATIONS, SIGNED BY A CALIFORNIA LICENSED ENGINEER, ARCHITECT, OR CONTRACTOR.
2. EXTERIOR WALL INSULATION SHALL CONFORM TO FEDERAL SPECIFICATION HH-1-521F WITH A THERMAL RESISTANCE (R) OF NOT LESS THAN 13.
3. RAISED FLOOR INSULATION SHALL CONFORM TO FEDERAL SPECIFICATION HH-1-521F WITH A THERMAL RESISTANCE (R) OF NOT LESS THAN 19.
4. CEILING OR ROOF INSULATION SHALL CONFORM TO FEDERAL SPECIFICATION HH-1-521F WITH A THERMAL RESISTANCE (R) OF NOT LESS THAN 30.
5. PROVIDE BATT INSULATION AT PARTY FLOORS, ROOF, EXTERIOR WALLS AND PARTY WALLS OF ALL DWELLING UNITS AS SHOWN ON DRAWINGS.
6. ALL OPENABLE WINDOWS AND SLIDING DOORS SHALL LIMIT AIR LEAKAGE AND BE CERTIFIED AND LABELED TO COMPLY WITH THE FOLLOWING STANDARDS.
   A. METAL WINDOWS AND DOORS ANSI A 134.2-1972.
   B. WOOD WINDOWS AND DOORS NWMA S-3.
   C. FIXED WINDOWS SHALL BE SEALED TO LIMIT AIR FILTRATION.
7. ALL EXTERIOR DOORS SHALL LIMIT AIR LEAKAGE AROUND THEIR PERIMETER WHEN IN CLOSED POSITION.
8. PROVIDE MEETING PORTIONS OF SECTIONAL, BI-PARTING, OR DOUBLE DOORS WITH A WEATHER-TIGHT ASTRAGAL OR SEAL.
9. SEAL, CAULK OR WEATHERSTRIP OPEN EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES, BETWEEN WALLS AND FOUNDATION, BETWEEN WALLS AND ROOF, BETWEEN WALL AND PANELS AND AT PENETRATIONS OF UTILITIES THROUGH THE ENVELOPE TO LIMIT AIR LEAKAGE.
10. GIVE TO THE DEPARTMENT A "CERTIFICATE OR COMPLIANCE" SIGNED BY THE GENERAL CONTRACTOR STATING THAT THE WORK HAS BEEN PERFORMED AND MATERIALS INSTALLED ACCORDING TO THE PLANS AND SPECIFICATIONS AFFECTING RESIDENTIAL ENERGY.

SIGNS AND IDENTIFICATIONS

1. REFER TO C.B.C., CHAP 11 FOR COMPLIANCE FOR THE FOLLOWING ITEMS UNLESS NOTED OTHERWISE.
2. LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10.
3. CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT IS MEASURED USING AN UPPER CASE X. LOWER CASE CHARACTERS ARE PERMITTED. FOR SIGNS SUSPENDED OR PROJECTED ABOVE THE FINISH FLOOR IN COMPLIANCE WITH SECTION 3105A(k), THE MINIMUM CHARACTER HEIGHT SHALL BE 3".
4. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
5. WHEN RAISED CHARACTERS OR SYMBOLS ARE USED, THEY SHALL CONFORM TO THE FOLLOWING:
   A. LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE.
   B. RAISED CHARACTERS OR SYMBOLS SHALL BE A MINIMUM OF 5/8" HIGH.
   C. PICTORIAL SYMBOL SIGNS (PICTOGRAMS) SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE A MINIMUM OF 6" IN HEIGHT.

GRAB BARS

1. GRAB BARS SHALL BE LOCATED ON EACH SIDE, OR ONE SIDE AND THE BACK OF THE PHYSICALLY DISABLED TOILET STALL OR COMPARTMENT, AND SHALL BE SECURELY ATTACHED 33" ABOVE AND PARALLEL TO THE FLOOR.
2. GRAB BARS AT THE SIDE SHALL BE AT LEAST 42" LONG WITH THE FRONT END POSITIONED 24" IN FRONT OF THE WATER CLOSET STOOL, AND WITH THE BACK END NO MORE THAN 12" FROM THE REAR WALL. GRAB BARS AT THE BACK SHALL BE NOT LESS THAN 36" LONG.
3. THE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A GRAB BAR SHALL BE 1 1/4" TO 1 1/2" OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE.
4. IF THE GRAB BARS ARE MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BARS SHALL BE 1 1/2"
5. GRAB BAR, TUB AND SHOWER SEATS, FASTENERS AND MOUNTING DEVISES SHALL BE DESIGNED FOR 250 POUNDS PER LINEAR FOOT LOAD.
6. A GRAB BAR AND ANY WALL OR OTHER SURFACE ADJACENT TO IT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS.
7. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8".
8. GRAB BARS AT THE SIDE OF WATER CLOSETS SHALL BE LOCATED 15" TO 16 1/2" (PLUS OR MINUS 1") FROM THE CENTER LINE OF THE WATER CLOSET STOOL.
9. THE STRUCTURAL STRENGTH OF GRAB BARS, TUB AND SHOWER SEATS, FASTENERS, AND MOUNTING DEVICES SHALL MEET THE FOLLOWING SPECIFICATIONS:
10. SHEAR STRESS INDUCED IN A GRAB BAR OR SEAT BY THE APPLICATION OF A 250 POUND POINT LOAD SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT, AND ITS MOUNTING BRACKET OR OTHER SUPPORT IS CONSIDERED TO BE FULLY RESTRAINED, THEN DIRECT AND TORSIONAL SHEAR STRESSES SHALL NOT EXCEED THE ALLOWABLE SHEAR STRESS.
11. SHEAR FORCE INDUCED IN FASTENER OR MOUNTING DEVICES FROM THE APPLICATION OF A 250 POUND POINT LOAD SHALL BE LESS THAN THE ALLOWABLE LATERAL LOAD OF EITHER THE FASTENER OR MOUNTING DEVICE OR THE SUPPORTING STRUCTURE, WHICHEVER HAS THE SMALLER ALLOWABLE LOAD.
12. TENSILE FORCE INDUCED IN A FASTENER BY A DIRECT TENSION FORCE OF 250 POUND POINT LOAD, PLUS THE MAXIMUM MOMENT FROM THE APPLICATION OFA 250 POUND POINT LOAD, SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL LOAD BETWEEN THE FASTENER AND SUPPORTING STRUCTURE.
13. CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE SYMBOLS ARE SPECIFICALLY REQUIRED IN OTHER PORTIONS OF THESE REGULATIONS. DOTS SHALL BE 1/10" ON CENTERS IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MINIMUM OF 1/40" ABOVE THE BACKGROUND.
14. ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS.
15. WHEN PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, RAISED LETTERS SHALL BE PROVIDED AND SHALL BE ACCOMPANIED BY BRAILLE. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH OUTSIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISHED FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.
16. POLE SUPPORTED PEDESTRIAN TRAFFIC CONTROL BUTTONS SHALL BE IDENTIFIED WITH COLOR CODING CONSISTING OF A TEXTURED HORIZONTAL YELLOW BAND 2" IN WIDTH ENCIRCLING THE POLE, AND A 1" WIDE DARK BORDER BAND ABOVE AND BELOW THIS YELLOW BAND. COLOR CODING SHOULD BE PLACED IMMEDIATELY ABOVE THE CONTROL BUTTON. CONTROL BUTTONS SHALL BE LOCATED NO HIGHER THAN 48" ABOVE THE SURFACE ADJACENT TO THE POLE.

FOR CITY COUNCIL ONLY

REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. LOPES
NO. S-4550
EXP. 12/31/17
STRUCTURAL
STATE OF CALIFORNIA

DATE SIGNED: 06/01/17

No.	Date	Revision	By
1	09/16/15	FIRST PLAN CHECK	RJS
2	10/17/16	CYCLE 3 PLAN CHECK	RJS
3	05/10/17	CYCLE 4 PLAN CHECK	MWK
4	10/31/17	RE-BID	
5			

CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

ARCHITECTURAL NOTES

CITY OF Fremont
COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed -- Associate Land. Arch.~~ Date | Recommended -- Project Manager Date

Scale:	NONE
Designed By:	AJL
Drawn By:	PS
Date:	10/17/2014
Project No.:	8718 (PWC)
CAD File:	12203-A1.0-A1.1.dwg
SHEET 11 OF 37	

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ADDITIONAL REQUIREMENTS

1. THE CENTER OF RECEPTACLE OUTLETS SHALL BE NOT LESS THAN 15" ABOVE THE FLOOR OR WORKING PLATFORM.

2. THE CENTER OF THE GRIP OF THE OPERATING HANDLE OF SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF THE ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLELTS, APPLIANCES, OR COOLING, HEATING AND VENTILATING EQUIPMENT, SHALL BE NOT LESS THAN 3-FEET NOR MORE THAN 4" ABOVE THE FLOOR OR WORKING PLATFORM.

3. THE CENTER OF FIRE ALARM INITIATING DEVICES (BOXES) SHALL BE LOCATED 48" ABOVE THE LEVEL OF THE FLOOR, WORKING PLATFORM, GROUND SURFACE OR SIDEWALK.

4. IF EMERGENCY WARNING SYSTEMS ARE REQUIRED, THEY SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNING SHALL HAVE A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE.

5. IN ALL ASSEMBLY PLACES, E.G., AUDITORIUMS, ASSEMBLY HALLS, THEATERS, AND RELATED FACILITIES, ETC., ACCESSIBLE SPACES FOR PEOPLE USING WHEELCHAIRS SHALL BE PROVIDED IN A VARIETY OF LOCATIONS.

6. IN STADIUMS, BLEACHERS, GYMNASIUMS, OTHER SPORTS RELATED FACILITIES, ETC., ACCESSIBLE SPACES FOR PEOPLE USING WHEELCHAIRS SHALL BE PROVIDED IN A VARIETY OF LOCATIONS.

7. IN ASSEMBLY AREAS WITH PERMANENTLY INSTALLED PUBLIC ADDRESS SYSTEMS, ASSISTIVE-LISTENING SYSTEMS FOR PEOPLE WITH HEARING IMPAIRMENTS SHALL BE PROVIDED.

8. H OCCUPANCIES: SANITARY FACILITIES, ENTRANCES, STAIRS, RAMPS, DOORS, CORRIDORS, WALKS, SIDEWALKS, FLOORS AND LEVELS, EMPLOYEE WORK AREAS, OFFICE AREAS AND CUSTOMER/CLIENT AREAS SHALL COMPLY.

9. HOTELS AND MOTELS SHALL COMPLY WITH THE GENERAL REQUIREMENTS CONTAINED IN THE CALIFORNIA BUILDING CODE EXCEPT AS PROVIDED IN CHAPTER 12 OF TITLE 24.

10. BATHROOMS IN HOTEL OR MOTEL UNITS IN EXCESS OF THOSE SPECIFIED IN C.B.C. SHALL COMPLY WITH THE FOLLOWING:

    A. BATHROOM FIXTURES SHALL BE IN A LOCATION THAT ALLOWS A PERSON USING A WHEELCHAIR MEASURING 30" X 48" TO TOUCH THE WHEELCHAIR TO THE FIXTURE.

    B. THE BATHROOM DOOR SHALL HAVE A CLEAR OPENING WIDTH OF 32" AND SHALL BE EITHER A SLIDING DOOR OR IF A SWINGING DOOR IS PROVIDED, IT SHALL SWING OUT.

11. AT KITCHEN SINKS, FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 POUNDS. LEVER-OPERATED, PUSH-TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.

12. PROVIDE LOW CONSUMPTION WATER CLOSETS FOR NEW BUILDING, BUILDING ADDITION ON BUILDING REMODELING WHERE NEW PLUMBING FIXTURES WILL BE INSTALLED.

13. A PERMIT FROM THE DEPARTMENT OF PUBLIC WORKS IS REQUIRED FOR A PROTECTION FENCE AND CANOPY ON OR OVER ANY STREET ON PUBLIC SPACE.

14. ALL EXTERIOR DOORS SHALL LIMIT AIR LEAKAGE AROUND THEIR PERIMETER WHEN IN A CLOSED POSITION. SEAL OR ASTRAGAL SHALL BE PROVIDED AT HEAD, SILL AND JAMBS. DOORS MOUNTED ON THE INSIDE OR THE OUTSIDE OF EXTERIOR WALLS SHALL HAVE A MINIMUM 1" LAP AT JAMBS. MEETING PORTIONS OF SECTIONAL, BI-PARTING, OR DOUBLE DOORS SHALL BE PROVIDED WITH A WEATHER TIGHT ASTRAGAL ON SEAL.

15. ALL OPENABLE WINDOWS AND SLIDING DOORS SHALL LIMIT AIR LEAKAGE AND BE CERTIFIED AND LABELED TO COMPLY WITH THE FOLLOWING STANDARDS: METAL WINDOWS AND DOORS PER ANSI A134-2-1972 ± WOOD WINDOWS AND DOORS PER NWMAIS-3. FIXED WINDOWS SHALL BE SEALED TO LIMIT AIR INFILTRATION.

16. OPEN EXTERIOR JOINTS AROUND WINDOW AND DOOR FRAMES, BETWEEN WALLS AND FOUNDATIONS, BETWEEN WALLS AND ROOF, BETWEEN WALL PANELS, AT PENETRATIONS OF UTILITIES THRU THE ENVELOPE, SHALL BE CAULKED ON WEATHER-STRIPPED TO LIMIT AIR LEAKAGE.

GRAFFITI

1. GRAFFITI REMOVAL AND DETERRENCE-THE OWNERS AND ALL SUCCESSORS SHALL COMPLY WITH THE GRAFFITI REMOVAL AND DETERRENCE REQUIREMENTS OF THE CITY ZONING CODE AND APPLICABLE CITY BUILDING CODES ON THIS PROJECT INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:

    A. AT LEAST THE FIRST (9) NINE FEET OR EXTERIOR WALLS AND DOORS, MEASURED FROM GRADE, SHALL BE BUILT AND MAINTAINED WITH A GRAFFITI RESISTANT FINISH CONSISTING OF EITHER A HARD, SMOOTH, IMPERMEABLE SURFACE SUCH AS CERAMIC TILE, BAKED ENAMEL OR A RENEWABLE COATING OF AN APPROVED, ANTI-GRAFFITTI MATERIAL OR A COMBINATION OF BOTH.

    B. THE PERIOD FOR COMPLIANCE WITH A GRAFFITI REMOVAL ORDER ISSUED BY THE BUILDING AND SAFETY DEPARTMENT IS 15 DAYS. IF DURING THIS PERIOD, THE OWNER FAILS TO PERFORM, THE CITY OR ITS CONTRACTOR IS EMPOWERED TO ENTER UPON THE PREMISES TO REMOVE SUCH GRAFFITI, WITH COSTS ACCRUING TO THE OWNER, AND

    C. THE PERIOD FOR COMPLIANCE WITH A SUBSEQUENT ORDER FOR A SUBSEQUENT OCCURRENCE SHALL BE (3) THREE DAYS.

    D. IN ADDITION, TO A, B, AND C, ABOVE, EXTERIOR WALLS OF ALL NEW INSTITUTIONAL AND COMMERCIAL BUILDINGS OTHER THAN GLASS MAY BE COVERED WITH CLINGING VINE, SCREENED BY OLEANDER TREES OR SIMILAR VEGETATION CAPABLE OF COVERING OR SCREENING ENTIRE WALLS UP TO THE HEIGHT OF AT LEAST NINE FEET, EXCLUDING WINDOWS AND SIGNS.

2. REFER TO THE 2013 C.B.C. FOR ADDITIONAL COMPLIANCE TO GRAFFITI DETERRENT APPLICATIONS.

MISCELLANEOUS

1. AN AREA OF EVACUATION ASSISTANCE IS NOT NECESSARY BECAUSE A SUPERVISED AUTOMATIC SPRINKLER SYSTEM WILL BE PROVIDED.

2. PROVIDE LIGHTED EXIT SIGNS WHICH ARE CLEARLY VISIBLE WHENEVER THE BUILDING IS OCCUPIED.

3. TRENCHES OR EXCAVATIONS FIVE FEET OR MORE IN DEPTH INTO WHICH A PERSON IS REQUIRED TO DESCEND ARE NOT ALLOWED WITHOUT PERMIT FROM THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE ISSUANCE OF A GRADING PERMIT.

4. THE CONSTRUCTION OR DEMOLITION OF ANY BUILDING, STRUCTURE, SCAFFOLDING, OR FALSEWORK MORE THAN THREE STORIES OR 36 FEET IN HEIGHT REQUIRES A PERMIT FROM THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR THE ISSUANCE OF A BUILDING PERMIT.

5. SPRINKLER SYSTEM TO BE APPROVED BY PLUMBING AND FIRE PREVENTION DIVISIONS PRIOR TO INSTALLATION.

6. ROOF DRAINS DISCHARGING WATER MUST BE CONDUCTED UNDER THE SIDEWALK, SEE SHEET A-1, DIE LOCATION. PUBLIC WORKS APPROVAL IS REQUIRED FOR CURB-CUT AND DRAINAGE TO STREET.

7. ALL EXTERIOR DOORS SHALL LIMIT AIR LEAKAGE AROUND THEIR PERIMETER WHEN IN A CLOSED POSITION. SEAL OR ASTRAGAL SHALL BE PROVIDED AT HEAD, SILL AND JAMBS. DOORS MOUNTED ON THE INSIDE OR ON THE OUTSIDE OF EXTERIOR WALLS SHALL HAVE A MINIMUM ONE INCH OVERLAP AT JAMBS. MEET PORTIONS OF DOUBLE DOORS SHALL BE PROVIDED WITH A WEATHER TIGHT ASTRAGAL OR SEAL.

8. NO DUCTS OR ELECTRICAL CONDUITS SHALL BE EMBEDDED IN THE CONCRETE SLAB OF FIRE RATED FLOOR OR ROOF SYSTEMS USING STEEL DECK WITH STRUCTURAL CONCRETE FILL.

1 FREMONT MUNICIPAL CODE SECTION 7-2135

15.50.070 Commercial burglary security.

(a) Exterior doors shall be secured as follows:

(1) All exterior exit doors in Group B and M occupancies shall comply with the hardware requirements of Section 1004.3 of the California Building Code. Locking deadbolts shall have a hardened steel insert and a minimum throw of one inch. A hook or expanding bolt may have a throw of three-fourths inch.

(2) Cylinders shall be so designed or protected so they cannot be gripped by pliers or other wrenching devices.

(3) Exterior sliding commercial entrances shall be secured as in subsections (a)(1) and (2) of this section, with special attention given to safety regulations.

(4) Rolling overhead doors, solid overhead swinging, sliding, or accordion garage-type doors shall be secured with a cylinder lock or padlock on the inside when not otherwise controlled or locked by electric power operation. If a padlock is used, it shall be of hardened steel five-eighths-inch shackle locking at heel and toe, with minimum five-pin tumbler operation with nonremovable key when in an unlocked position.

(5) Metal accordion grate or grille-type doors shall be equipped with metal guide track, at top and bottom, and a cylinder lock and/or padlock with a five-eighths-inch hardened steel shackle and a minimum five-pin tumbler operation which locks heel and toe and has a nonremovable key when in an unlocked position. The bottom track shall be so designed that the door cannot be lifted from the track when the door is in a locked position.

(6) Exterior doors with hinges which are exposed to the exterior shall be equipped with nonremovable hinge pins or a mechanical interlock to preclude removal of the door from the exterior by removing the hinge pins.

(7) Doors that swing in shall have rabbeted jambs.

(8) Strike Plate Installation. In wood frame construction, any open space between trimmers and wood door jambs shall be solid shimmed by a single piece extending not less than six inches above and below the strike plate. Strike plates shall be attached to wood with not less than two No. 8 by 2 inch screws. Strike plates, when attached to metal, shall be attached with not less than two No. 8 machine screws. All strike plates of doors in pairs shall be installed as tested.

(9) Jambs for all doors shall be constructed or protected so as to prevent violation of the function of the strike from the outside.

(10) All exterior doors, excluding front doors, shall have provisions for a minimum of 60 watt bulb over the outside of the door or equivalent lighting. If a bulb is used, it shall be protected with a vapor cover or cover of equal breaking resistant material.

(b) Glass Windows. Louvered windows shall be protected by approved metal bars or grilles.

(c) Accessible Transoms and Hatchway Openings.

(1) Exterior transoms exceeding eight inches by 12 inches on the side and rear of any building or premises used for business purposes shall be protected by one of the following:

(A) Laminated security glass which is a minimum of one-fourth inch in thickness with a six-hundredths-inch vinyl interlayer or one-fourth-inch polycarbonate security sheets or their equivalent.

(B) Iron bars of at least one-half inch round or one inch by one-fourth inch flat steel material securely fastened; or

(C) A steel grille of at least one-eighth-inch material of two-inch mesh securely fastened.

(2) All hatchway openings on the roof of any building or premises used for business purposes shall be secured as follows:

(A) If the hatchway is of wooden material, it shall be covered on the inside with at least 16 gauge sheet steel or its equivalent attached with screws.

(B) The hatchway shall be secured from the inside with a slide bar or slide bolts.

(C) Outside hinges on all hatchway openings shall be provided with nonremovable pins when using pin-type hinges.

(3) All air duct and air vent openings exceeding eight inches by 12 inches on the roof or exterior walls of any building or premises used for business purposes shall be secured by covering the same with either of the following:

(A) Iron bars of at least one-half inch round or one inch by one-fourth inch flat steel material, spaced no more than five inches apart and securely fastened, or

(B) A steel grille of at least one-eighth-inch material of two-inch mesh and securely fastened.

(C) If the barrier is on the outside, it shall be secured with round head flush bolts on the outside.

(d) Special Security Measures.

(1) Office Buildings (Multiple Occupancy). All individual office suites shall have solid core doors which have a minimum thickness of at least one and three-eighths inch and shall have a deadbolt lock which has a cylinder guard, a hardened steel insert, and a minimum throw of one inch.

(2) Electronic Computer Component Businesses. Businesses involved in the production, assembly, storage, sale, transfer or transport of electronic computer components shall install site security systems including alarms with cellular or alternate equivalent backup, which shall be operational even if phone line service is interrupted. Motion detector(s) shall be installed to specifically protect main telephone power sources, alarm power sources and main alarm equipment panel(s).

(e) Address, Location and Specifications.

(1) Building address numbers shall be in a visible location near the front entrance.

(2) All address numbers shall be a minimum of eight inches in height.

(3) Address numbering shall be provided and maintained in a position which is plainly visible and legible from the street fronting the property. When properties do not front toward streets, addressing shall conform to the above requirements but front driveways and pedestrian ways. (Ord. 2484 § 4, 9-24-02. 1990 Code § 7-2135.)

1 CONSTRUCTION NOTES

1. THE APPLICANT SHALL MEET ALL REQUIREMENTS IN THE 2013 CALIFORNIA FIRE CODE AND LOCAL ORDINANCE #24-2013 AND THE FREMONT MUNICIPAL CODE.
2. A SEPARATE PERMIT IS REQUIRED FOR THE UNDERGROUND FIRE SERVICE, FIRE SPRINKLERS AND FIRE SPRINKLER MONITORING AND ASSEMBLY AREAS.
3. THE INSPECTION, HYDROSTATIC TEST AND FLUSHING OF THE AFES SHALL BE WITNESSED BY THE BUILDING INSPECTOR SPECIALIST, FIRE AND NO PIPING SHALL BE COVERED OR HIDDEN FROM VIEW UNTIL AN INSPECTION HAS BEEN COMPLETED.
4. FIRE SPRINKLER TEST WATER MUST BE DRAINED TO AN APPROPRIATELY-SIZED LANDSCAPED AREA. IF AN APPROPIATELY-SIZED LANDSCAPED AREA IS INFEASIBLE, THEN A CONNECTION MUST BE MADE TO THE SANITARY SEWER SYSTEM WITH APPROVAL FROM UNION SANITARY DISTRICT. CONTACT UNION SANITARY DISTRICT FOR SPECIFIC CONNECTION AND DISCHARGE REQUIREMENTS.
5. PRIOR TO INSTALLATION, PLANS AND SPECIFICATIONS FOR THE UNDERGROUND FOR SERVICE LINE MUST BE SUBMITTED TO THE PLANS AND PERMIT CENTER FOR APPROVAL BY THE FIRE DEPARTMENT AND BUILDING DEPARTMENT. THE UNDERGROUND FIRE SERVICE REQUIRES EITHER CATHODIC PROTECTION OR A CORROSION ENGINEER'S PROTECTION PLAN.
6. THE APPLICANT SHALL INSTALL A MONITORED FIRE ALARM/SPRINKLER MONITORING/SYSTEM AS REQUIRED. THE SYSTEM MUST COMPLY WITH N.F.P.A. 72 AND LOCAL ORDINANCE #24-2010. A NATIONALLY RECOGNIZED TESTING LABORATORY NUMBERED CERTIFICATE SHALL BE PROVIDED AT NO COST TO THE CITY. FIRE ALARM SYSTEMS ALARMS, SUPERVISORY AND TROUBLE SIGNALS SHALL BE DISTINCTLY AND DESCRIPTIVELY DIFFERENT PER CITY OF FREMONT FIRE ALARM STANDARD 25A.
7. DURING CONSTRUCTION, THE APPLICANT SHALL PROVIDE A 20 FOOT WIDE WEATHER-PAVING SURFACE FOR EMERGENCY VEHICLE ACCESS WITHIN 150 FEET OF ALL CONSTRUCTION OR COMBUSTIBLE STORAGE. THIS ACCESS SHALL BE PROVIDED BEFORE ANY CONSTRUCTION OR COMBUSTIBLE STORAGE WILL BE ALLOWED.
8. DURING CONSTRUCTION, PERSONNEL OPERATING AT THE CONSTRUCTION SITE SHALL HAVE A MEANS OF COMMUNICATING AND REPORTING A FIRE OR MEDICAL EMERGENCY. THE REQUIREMENT MAY BE MET BY USE OF A CELLULAR TELEPHONE AND BY DIALING 911. CELLULAR TELEPHONE CALLS TO 911 NOW REPORT TO THE CLOSEST PUBLIC SERVICE ANSWERING POINT: FREMONT POLICE DISPATCH OF THE PROJECT SITE.
9. THE APPLICANT MUST IMMEDIATELY NOTIFY THE FREMONT FIRE DEPARTMENT, HAZARDOUS MATERIALS UNIT [510-494-4282] OF ANY UNDERGROUND PIPES, TANKS OR STRUCTURES; ANY SUSPECTED OR ACTUAL CONTAMINATED SOILS; OR OTHER ENVIRONMENTAL ANOMALIES ENCOUNTERED DURING SITE DEVELOPMENT ACTIVITIES. ANY CONFIRMED ENVIRONMENT LIABILITIES WILL NEED TO BE REMEDIED PRIOR TO PROCEEDING WITH SITE DEVELOPMENT.
10. INSTALL AND N.F.P.A. 13 FIRE SPRINKLER SYSTEM COMPLYING WITH LOCAL AMENDMENTS. FIRE SPRINKLER TEST WATER MUST BE DRAINED TO A APPROPRIATELY-SIZED LANDSCAPED AREA.

FOR CITY COUNCIL USE ONLY

REGISTERED PROFESSIONAL ENGINEER ANTHONY J. LOPEZ NO. S-4550 EXP. 12/31/17 STRUCTURAL STATE OF CALIFORNIA

DATE SIGNED: 06/01/17

No.	Date	Revision	By
1	09/16/15	FIRST PLAN CHECK	RJS
2	10/17/16	CYCLE 3 PLAN CHECK	RJS
3	05/10/17	CYCLE 4 PLAN CHECK	MWK
4	10/31/17	RE-BID	
5			

CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

ARCHITECTURAL NOTES

CITY OF Fremont

COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed~~ ~~Associate Land. Arch.~~ Date | Recommended -- Project Manager Date

Scale:	NONE
Designed By:	AJL
Drawn By:	PS
Date:	10/17/2014
Project No.:	8718 (PWC)
CAD File:	12203-A1.0-A1.1.dwg
SHEET 12	OF 37

A1.1

SECTION A5.602
NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS

APPLICATION CHECKLIST FOR BSC	MANDATORY	REQUIREMENT
Requirements		
Project meets all of the requirements of Divisions 5.1 through 5.5.	☒	SEE BELOW
Planning and Design		
Site Selection		
A5.103.1 Community connectivity. Locate project on a previously developed site within a 1/2-mile radius of at least ten basic services, listed in Section A5.103.1.		N.A.
A5.103.2 Brownfield or greyfield site redevelopment or infill area development. Select for development a brownfield in accordance with Section A5.103.2.1 or on a greyfield or infill site as defined in Section A5.102. **A5.103.3.1 Brownfield redevelopment.** Develop a site documented as contaminated and fully remediated or on a site defined as a brownfield.		N.A.
Site Preservation		
A5.104.1.1 Local zoning requirement in place. Exceed the zoning's open space requirement for vegetated open space on the site by 25 percent. **A5.104.1.2 No local zoning requirement in place.** Provide vegetated open space area adjacent to the building equal to the building footprint area. **A5.104.1.3 No open space required in zoning ordinance.** Provide vegetated open space equal to 20 percent of the total project site area.		N.A.
Deconstruction and Reuse of Existing Structures		
A5.105.1.1 Existing building structure. Maintain at least 75 percent of existing building structure (including structural floor and roof decking) and envelope (exterior skin and framing) based on surface area. **Exceptions:** 1. Window assemblies and nonstructural roofing material. 2. Hazardous materials that are remediated as a part of the project. 3. A project with an addition of more than two times the square footage of the existing building. **A5.105.1.2 Existing nonstructural elements.** Reuse existing interior nonstructural elements (interior walls, doors, floor coverings and ceiling systems) in at least 50 percent of the area of the completed building (including additions). **Exception:** A project with an addition of more than two times the square footage of the existing building. **A5.105.1.3 Salvage.** Salvage additional items in good condition such as light fixtures, plumbing fixtures and doors for reuse on this project in an onsite storage area or for salvage in dedicated collection bins. Document the weight or number of the items salvaged.		EXISTING FOOD COURT BUILDING TO REMAIN ITEMS IN GOOD CONDITION SHALL BE SALVAGED FROM THE EXISTING RESTROOM STRUCTURE AFTER DEMOLITION
Site Development		
5.106.1 Storm water pollution prevention. Newly constructed projects which disturb less than one acre of land shall prevent the pollution of stormwater runoff from the construction activities through local ordinance in Section 5.106.1.1 or Best management practices (BMP) in Section 5.106.1.2. **A5.106.2 Storm water design.** Design storm water runoff rate and quantity in conformance with Section A5.106.3.1 and storm water runoff quality by Section A5.106.3.2 or by local requirements, whichever are stricter. **A5.106.2.1 Storm water runoff rate and quantity.** Implement a storm water management plan resulting in no net increase in rate and quantity of storm water runoff from existing to developed conditions. **Exception:** If the site is already greater than 50 percent impervious, implement a storm water management plan resulting in a 25-percent decrease in rate and quantity. **A5.106.2.2 Storm water runoff quality.** Use post construction treatment control best management practices (BMPs) to mitigate (infiltrate, filter or treat) storm water runoff from the 85th percentile 24-hour runoff event (for volume-based BMPs) or the runoff produced by a rain event equal to two times the 85th percentile hourly intensity (for flow-based BMPs).	☒ or ☒	N.A. EXISTING STORM WATER RUNOFF NOT CHANGED
A5.106.3 Low impact development (LID). Reduce peak runoff in compliance with Section 5.106.3.1. Employ at least two of the following methods or other best management practices to allow rainwater to soak into the ground, evaporate into the air or collect in storage receptacles for irrigation or other beneficial uses. LID strategies include, but are not limited to those listed in Section A5.106.4.		N.A.

(continued)

SECTION A5.602
NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS—continued

APPLICATION CHECKLIST FOR BSC	MANDATORY	REQUIREMENT
5.106.4 Bicycle parking. Comply with Sections 5.106.4.1, 4.106.4.1 and 5.106.4.1.2; or meet local ordinance, whichever is stricter. **5.106.4.1.1 Short-term bicycle parking.** If the new project or addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5 percent of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack. **5.106.4.1.2 Long-term bicycle parking.** For buildings with over 10 tenant-occupants, provide secure bicycle parking for 5 percent of tenant-occupied motorized vehicle parking spaces being added, with a minimum of one space. See exception for addition or alterations. **A5.106.4.3 Changing rooms.** For buildings with over 10 tenant-occupants, provide changing/shower facilities in accordance with Table A5.106.4.3 or document arrangements with nearby changing/shower facilities.	☒ ☒ ☒	NO CHANGE IN USE VISITOR TRAFFIC IS EXPECTED TO BE THE SAME
A5.106.5.1 Designated parking for fuel-efficient vehicles. Provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in: **A5.106.5.1.1. Tier 1 10% of total spaces** per Table A5.106.5.1.1. **A5.106.5.1.2. Tier 2 12% of total spaces** per Table A5.106.5.1.2. **5.106.5.2 Designated parking.** Provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Table 5.106.5.2.	☒	NO CHANGE IN USE VISITOR TRAFFIC IS EXPECTED TO BE THE SAME
A5.106.5.3.1 Single charging space requirements. When only a single charging space is required, install a listed raceway capable of accommodating a dedicated branch circuit. The raceway shall not be less than trade size 1. The raceway shall be securely fastened at the main service or subpanel and shall terminate in close proximity to the proposed location of the charging system into a listed cabinet, box or enclosure. **Exception:** Other pre-installation methods approved by the local enforcing agency that provide sufficient conductor sizing and service capacity to install Level 2 EVSE. **A5.106.5.3.2 Multiple charging spaces required.** When multiple charging spaces are required, plans shall include the location(s) and type of the EVSE, raceway method(s), wiring schematics and electrical calculations to verify that the electrical system has sufficient capacity to charge simultaneously all the electrical vehicles at all designated EV charging spaces at their full rated amperage. Plan design shall be based upon Level 2 EVSE at its maximum operating ampacity. Provide raceways from the electrical service panel to the designated parking areas which are required to be installed at the time of construction. **Note:** Utilities and local enforcing agencies may have additional requirements for metering and EVSE installation, and should be consulted during the project design and installation. **A5.106.5.3.3 Tier 1.** At least 3 percent of the total parking spaces, but not less than one, shall be capable of supporting installation of future electric vehicle supply equipment (EVSE). **A5.106.5.3.4 Tier 2.** At least 5 percent of the total parking spaces, but not less than two, shall be capable of supporting installation of future EVSE. **A5.106.5.3.5 Labeling requirement.** A label stating "EV CHARGE CAPABLE" shall be posted in a conspicuous place at the service panel or subpanel and the EV charging space.		N.A.
A5.106.6 Parking capacity. Design parking capacity to meet but not exceed minimum local zoning requirements. **A5.106.6.1 Reduce parking capacity.** With the approval of the enforcement authority, employ strategies to reduce on-site parking area by 1. Use of on street parking or compact spaces, illustrated on the site plan or 2. Implementation and documentation of programs that encourage occupants to carpool, ride share or use alternate transportation.		N.A.
A5.106.7 Exterior walls. Meet requirements in the current edition of the *California Energy Code* and comply with either Section A5.106.7.1 or A5.106.7.2 for wall surfaces: **A5.106.7.1 Fenestration.** Provide vegetative or man-made shading devices for all fenestration on east-, south- and west-facing walls. **A5.106.7.1.1 East and west walls.** Shading devices shall have 30% coverage to a height of 20 feet or to the top of the exterior wall, whichever is less. **A5.106.7.1.2 South walls.** Shading devices shall have 60% coverage to a height of 20 feet or to the top of the exterior wall, whichever is less. **A5.106.7.2 Opaque wall areas.** Use wall surfacing with SRI 25 (aged), for 75% of opaque wall areas.		N.A.

(continued)

SECTION A5.602
NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS—continued

APPLICATION CHECKLIST FOR BSC	MANDATORY	REQUIREMENT
5.106.8 Light pollution reduction. [N] Outdoor lighting systems shall be designed and installed to comply with the following: 1. The minimum requirements in the *California Energy Code* for Lighting Zones 1–4 as defined in Chapter 10 of the *California Administrative Code*; and 2. Backlight, Uplight and Glare (BUG) ratings as defined in IESNA TM-15-11; and 3. Allowable BUG ratings not exceeding those shown in Table 5.106.8, or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent. **Exceptions: [N]** 1. Luminaires that qualify as exceptions in Section 147 of the *California Energy Code* 2. Emergency lighting	☒ or ☒	NEW EXTERIOR LIGHTING TO COMPLY
5.106.10 Grading and paving. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include those shown in Items 1–5. See exception for additions or alterations.	☒	SEE GRADING PLAN GRADES PROVIDE POSITIVE DRAINAGE AWAY FROM NEW AND EXISTING BUILDINGS
A5.106.11 Heat island effect. Reduce nonroof heat islands and roof heat islands as follows: **A5.106.11.1 Hardscape alternatives.** Use one or a combination of strategies 1 through 3 for 50 percent of site hardscape or put 50 percent of parking underground. 1. Use light colored materials with an initial solar reflectance value of at least .30 as determined in accordance with ASTM Standards E 1918 or C 1549. 2. Use open-grid pavement system or pervious or permeable pavement system. **A5.106.11.2 Cool roof for reduction of heat island effect.** Use roofing materials having a minimum aged solar reflectance, thermal emittance complying with Sections A5.106.11.2.2 and A5.106.11.2.3 or a minimum aged or Solar Reflectance Index (SRI)3 equal to or greater than the values shown in: Table A5.106.11.2.2 – Tier 1 or Table A5.106.11.2.3 – Tier 2 **Exceptions:** 1. Roof constructions that have a thermal mass over the roof membrane, including areas of vegetated (green) roofs, weighing at least 25 lb/sf. 2. Roof area covered by building integrated solar photovoltaic and building integrated solar thermal panels.		

(continued)

SECTION A5.602
NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS—continued

APPLICATION CHECKLIST FOR BSC	MANDATORY	REQUIREMENT
Energy Efficiency		
Performance Requirements		
5.201.1 Scope. Building meets or exceeds the requirements of the California Building Energy Efficiency Standards.3	☒	N.A. - NEW STRUCTURE SHALL CONFORM
A5.203.1 Energy efficiency. Nonresidential, high-rise residential and hotel/motel buildings that include lighting and/or mechanical systems shall comply with Sections A5.203.1.1 and either A5.203.1.2.1 or A5.203.1.2.2. Newly constructed buildings, as well as additions and alterations, are included in the scope of these sections. Buildings permitted without lighting or mechanical systems shall comply with Section A5.203.1.1 but are not required to comply with Sections A5.203.1.1.2 or A5.203.1.2.		N.A.
A5.203.1.1.1 Outdoor lighting. Newly installed outdoor lighting power is no greater than 90 percent of the Title 24, Part 6 calculated value of allowed outdoor lighting power.		N.A.
A5.203.1.1.2 Service water heating in restaurants. Newly constructed restaurants 8,000 square feet or greater and with service water heaters rated 75,000 Btu/h or greater installed a solar water-heating system with a minimum solar savings fraction of 0.15 or meet one of the exceptions.		N.A.
A5.203.1.1.3 Functional areas where compliance with residential lighting standards is required. For newly constructed high-rise residential dwelling units and hotel and motel guest rooms, indoor lighting complies with the applicable requirements in Appendix A4 Residential Voluntary Measures, Division A4.2 – Energy Efficiency, Section A4.203.1.1.3. For additions and alterations to high-rise residential dwelling units and hotel and motel guest rooms, indoor lighting complies with the applicable requirements in Appendix A4 Residential Voluntary Measures, Division A4.2 – Energy Efficiency, Section A4.204.1.1.1.		N.A.
A5.203.1.2.1 Tier 1. For building projects that include indoor lighting or mechanical systems, but not both, the Energy Budget is no greater than 95 percent of the Title 24, Part 6, Energy Budget for the Proposed Design Building. For building projects that include indoor lighting and mechanical systems, the Energy Budget is no greater than 90 percent of the Title 24, Part 6, Energy Budget for the Proposed Design Building.		N.A.
A5.203.1.2.2 Tier 2. For building projects that include indoor lighting or mechanical systems, but not both, the Energy Budget is no greater than 90 percent of the Title 24, Part 6, Energy Budget for the Proposed Design Building. For building projects that include indoor lighting and mechanical systems, the Energy Budget is no greater than 85 percent of the Title 24, Part 6, Energy Budget for the Proposed Design Building.		N.A.
Renewable Energy		
A5.211.1 On-site renewable energy. Use on-site renewable energy for at least 1 percent of the electrical service overcurrent protection device rating calculated in accordance with the 2013 *California Electrical Code* or 1KW, whichever is greater, in addition to the electrical demand required to meet 1 percent of natural gas and propane use calculated in accordance with the 2013 *California Plumbing Code.* **A5.211.1.1 Documentation.** Calculate renewable on-site system to meet the requirements of Section A5.211.1. Factor in net-metering, if offered by local utility, on an annual basis. **A5.211.3 Green power.** Participate in the local utility's renewable energy portfolio program that provides a minimum of 50-percent electrical power from renewable sources. Maintain documentation through utility billings.		N.A.
Elevators, Escalators and Other Equipment		
A5.212.1 Elevators and escalators. In buildings with more than one elevator or two escalators, provide systems and controls to reduce the energy demand of elevators and escalators as follows. Document systems operation and controls in the project specifications and commissioning plan. **A5.212.1.1 Elevators.** Traction elevators shall have a regenerative drive system that feeds electrical power back into the building grid when the elevator is in motion. **A5.212.1.1.1 Car lights and fan.** A parked elevator shall turn off its car lights and fan automatically until the elevator is called for use. **A5.212.1.2 Escalators.** An escalator shall have a variable voltage variable frequency (VVVF) motor drive system that is fully regenerative when the escalator is in motion. **A5.212.1.4 Controls.** Controls that reduce energy demand shall meet requirements of CCR, Title 8, Chapter 4, Subchapter 6 and shall not interrupt emergency operations for elevators required in CCR, Title 24, Part 2, *California Building Code.*		N.A.

(continued)

SECTION A5.602
NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS—continued

APPLICATION CHECKLIST FOR BSC	MANDATORY	REQUIREMENT
Energy Efficient Steel Framing		
A5.213.1 Steel framing. Design for and employ techniques to avoid thermal bridging.		
Water Efficiency and Conservation		
Indoor Water Use		
5.303.1 Meters. Separate meters shall be installed for the uses described in Sections 5.303.1.1 and 5.303.1.2. **5.303.1.1 New buildings or additions in excess of 50,000 square feet.** Separate submeters shall be installed as follows: 1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day. 2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems: a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s) b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s) c. Steam and hot-water boilers with energy input more than 500,000 Btu/h (147 kW) **5.303.1.2 Excess consumption.** Any tenant within a new building or an addition that is projected to consume more than 1,000 gal/day (3800 L/day).	☒ ☒ ☒ ☒ ☒	NEW STRUCTURE IS UNDER 50,000 SQUARE FEET
5.303.2 Water reduction. Plumbing fixtures shall meet the maximum flow rate values shown in Table 5.303.2.3. **Exception:** Buildings that demonstrate 20-percent overall water use reduction. In this case, a calculation demonstrating a 20-percent reduction in the building "water use baseline," as established in Table 5.303.2.2, shall be provided. **5.303.2.1 Areas of additions or alteration.** For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.2 and Section 5.303.3 shall apply to new fixtures in additions or areas of alterations to the building. **A5.303.2.3.1 Tier 1 – 30-percent savings.** A schedule of plumbing fixtures and fixture fittings that will reduce the overall use of potable water within the building by 30 percent shall be provided. **A5.303.2.3.2 Tier 2 – 35-percent savings.** A schedule of plumbing fixtures and fixture fittings that will reduce the overall use of potable water within the building by 35 percent shall be provided. **A5.303.2.3.3 Forty-percent savings.** A schedule of plumbing fixtures and fixture fittings that will reduce the overall use of potable water within the building by 40 percent shall be provided. (Calculate savings by Water Use Worksheets) **A5.303.2.3.4 Nonpotable water systems for indoor use.** Utilizing nonpotable water systems (such as captured rainwater, treated graywater, and recycled water) intended to supply water closets, urinals, and other allowed uses, may be used in the calculations demonstrating the 30, 35 or 40 percent reduction. The nonpotable water systems shall comply with the current edition of the *California Plumbing Code.*	☒ ☒	SEE PLUMBING PLANS, LOW FLOW FIXTURES ARE SPECIFIED
5.303.3 Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following: **5.303.3.1 Water closets.** The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type Toilets. **Note:** The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush. **5.303.3.2 Urinals.** The effective flush volume of urinals shall not exceed 0.5 gallons per flush. **5.303.3.3 Showerheads.** **5.303.3.3.1 Single showerhead.** Showerheads shall have a maximum flow rate of not more than 2.0 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads. **5.303.3.3.2 Multiple showerheads serving one shower.** When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 2.0 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time. **Note:** A hand-held shower shall be considered a showerhead.	☒ ☒ ☒ ☒ ☒ ☒	SEE PLUMBING PLANS, LOW FLOW FIXTURES ARE SPECIFIED

(continued)

SECTION A5.602
NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS—continued

APPLICATION CHECKLIST FOR BSC	MANDATORY	REQUIREMENT
A5.303.3 Appliances. 1. Clothes washers shall have a maximum Water Factor (WF) that will reduce the use of water. 2. Dishwashers shall meet the criteria in Section A5.303.3(2)(a) and (b). 3. Ice makers shall be air cooled. 4. Food steamers shall be connectionless or boilerless. 5. The use and installation of water softeners shall be limited or prohibited by local agencies. 6. Combination ovens shall not consume more than 10 gph (38 L/h) in the full operational mode. 7. Commercial pre-rinse spray valves manufactured on or after January 1, 2006 shall function at equal to or less than 1.6 gpm (0.10 L/s) at 60 psi (414 kPa) and a. Be capable of cleaning 60 plates in an average time of not more than 30 seconds per plate b. Be equipped with an integral automatic shutoff c. Operate at static pressure of at least 30 psi (207 kPa) when designed for a flow rate of 1.3 gpm (0.08 L/s) or less		N.A.
5.303.4 Wastewater reduction. [N] Each building shall reduce the generation of wastewater by one of the following methods: 1. The installation of water-conserving fixtures or 2. Utilizing nonpotable water systems.	As applicable ☒ ☒	WATER-CONSERVING FIXTURES ARE PROVIDED - SEE PLUMBING PLANS
A5.303.5 Dual plumbing. New buildings and facilities shall be dual plumbed for potable and recycled water systems.		
5.303.6 Standards for plumbing fixtures and fittings. Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1401.1 of the *California Plumbing Code* and in Chapter 6 of this code.	As applicable ☒	PLUMBING FIXTURES ARE TO BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE - SEE PLUMBING PLANS
Outdoor Water Use		
5.304.1 Water budget. A water budget shall be developed for landscape irrigation use.3 Applies to additions or alterations.	☒	SEE IRRIGATION PLAN
5.304.2 Outdoor potable water use. For new water service, separate meters or submeters shall be installed for indoor and outdoor potable water use for landscaped areas of at least 1,000 square feet but not more than 5,000 square feet, separate submeters shall be installed for outdoor potable water use. Applies to additions or alterations. **A5.304.2.1 Outdoor potable water use.** For new water service not subject to the provisions of *Water Code* Section 535, separate meters or submeters shall be installed for outdoor potable water use for landscaped areas of at least 500 square feet but not more than 1,000 square feet (the level at which Section 5.304.2 applies).	☒	N.A. EXISTING WATER SERVICE
5.304.3 Irrigation design. In new nonresidential projects with at least 1,000 square feet but not more than 2,500 square feet of landscaped area (the level at which the MLO applies), install irrigation controllers and sensors which include the following criteria and meet manufacturer's recommendations. Applies to additions or alterations. **5.304.3.1 Irrigation controllers.** Automatic irrigation system controllers installed at the time of final inspection shall comply with the following: 1. Controllers shall be weather- or soil moisture-based controllers that automatically adjust irrigation in response to changes in plants' needs as weather conditions change. 2. Weather-based controllers without integral rain sensors or communication systems that account for local rainfall shall have a separate wired or wireless rain sensor which connects or communicates with the controller(s). Soil moisture-based controllers are not required to have rain sensor input.	☒ As applicable ☒	N.A. REVISION OF EXISTING IRRIGATION ONLY
A5.304.4 Potable water reduction. Provide water efficient landscape irrigation design that reduces by the use of potable water. **A5.304.4.1 Tier 1** – Reduce the use of potable water to a quantity that does not exceed 60 percent of ETo times the landscape area. **A5.304.4.2 Tier 2** –Reduce the use of potable water to a quantity that does not exceed 55 percent of ETo times the landscape area. Methods used to accomplish the requirements of this section shall include, but not be limited to, the items listed in A5.304.4. **A5.304.4.3 Verification of compliance.** A calculation demonstrating the applicable potable water use reduction required by this section shall be provided.		N.A.
A5.304.5 Potable water elimination. Provide a water efficient landscape irrigation design that eliminates the use of potable water beyond the initial requirements for plant installation and establishment. Methods used to accomplish the requirements of this section shall include, but not be limited to, the items listed in Section A5.304.4.		N.A.

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SECTION A5.602
NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS—continued

APPLICATION CHECKLIST FOR BSC	MANDATORY	REQUIREMENT
A5.304.6 Restoration of areas disturbed by construction. Restore all areas disturbed during construction by planting with local native and/or noninvasive vegetation.		N.A.
A5.304.7 Previously developed sites. On previously developed or graded sites, restore or protect at least 50 percent of the site area with native and/or noninvasive vegetation.		N.A.
A5.304.8 Graywater irrigation system. Install graywater collection system for onsite subsurface irrigation using graywater.		N.A.
Water Reuse		
A5.305.1 Nonpotable water systems. Nonpotable water systems for indoor and outdoor use shall comply with the current edition of the *California Plumbing Code.* **A5.305.2 Irrigation systems.** Irrigation systems regulated by a local water efficient landscape ordinance or by the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) shall use recycled water.		N.A.
Material Conservation and Resource Efficiency		
Efficient Framing Systems		
A5.404.1 Wood framing. Employ advanced wood framing techniques or OVE, as permitted by the enforcing agency.		N.A.
Material Sources		
A5.405.1 Regional materials. Select building materials or products for permanent installation on the project that have been harvested or manufactured in California or within 500 miles of the project site, meeting the criteria listed in Section A5.405.1.		N.A.
A5.405.2 Bio-based materials. Select bio-based building materials per Section A5.405.2.1 or A5.405.2.2. **A5.405.2.1 Certified wood products.** Certified wood is an important component of green building strategies and the California Building Standards Commission will continue to develop a standard through the next code cycle. **A5.405.2.2 Rapidly renewable materials.** Use materials made from plants harvested within a ten-year cycle for at least 2.5 percent of total materials value, based on estimated cost.		N.A.
A5.405.3 Reused materials. Use salvaged, refurbished, refinished or reused materials for at least 5 percent of the total value, based on estimated cost of materials on the project.		N.A.
A5.405.4 Recycled content. Use materials, equivalent in performance to virgin materials, with a total (combined) recycled content value (RCV) of: **Tier 1.** The RCV shall not be less than 10 percent of the total material cost of the project. **Tier 2.** The RCV shall not be less than 15 percent of the total material cost of the project. **Note:** Use the equations in the subsections for calculating total materials cost, recycled content, RCV of materials and assemblies, and total RCV.		N.A.
A5.405.5 Cement and concrete. Use cement and concrete made with recycled products and complying with the following sections: **A5.405.5.1 Cement.** Cement shall comply with one of the following standards: 1. Portland cement shall meet ASTM C 150. 2. Blended hydraulic cement shall meet ASTM C 595. 3. Other Hydraulic Cements shall meet ASTM C 1157. **A5.405.5.2 Concrete.** Unless otherwise directed by the Engineer of Record, use concrete manufactured with cementitious materials in accordance with Sections A5.405.5.2.1 and A5.405.5.2.1.1, as approved by the enforcing agency. **A5.405.5.2.1 Supplementary cementitious materials (SCMs).** Use concrete made with one or more of the SCMs listed in Section A5.405.5.2.1. **A5.405.5.2.1.1 Mix design equation.** Use any combination of one or more SCMs, satisfying Equation A4.5-14. **Exception:** Minimums in mix designs approved by the Engineer of Record may be lower where high early strength is needed. **A5.405.5.3 Additional means of compliance.** Any of the following measures shall be permitted to be employed for the production of cement or concrete, depending on their availability and suitability, in conjunction with Section A5.405.5.2. **A5.405.5.3.1 Cement.** The following measures may be used in the manufacture of cement. **A5.405.5.3.1.1 Alternative fuels.** Where permitted by state or local air quality standards. **A5.405.5.3.1.2 Alternative power.** Alternate electric power generated at the cement plant and/or green power purchased from the utility meeting the requirements of Section A5.211.		N.A.

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SECTION A5.602
NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS—continued

APPLICATION CHECKLIST FOR BSC	MANDATORY	REQUIREMENT
A5.405.5.3.2 Concrete. The following measures may be used in the manufacture of concrete, **A5.405.5.3.2.1 Alternative energy.** Renewable or alternative energy meeting the requirements of Section A5.211. **A5.405.5.3.2.2 Recycled aggregates.** Concrete made with one or more of the materials listed in Section A5.405.5.3.2.2. **A5.405.5.3.2.3 Mixing water.** Water recycled by the local water purveyor or water reclaimed from manufacturing processes and conforming to ASTM C 1602. **A5.405.5.3.2.4 High strength concrete.** Concrete elements designed to reduce their total size compared to standard 3,000 psi concrete, as approved by the Engineer of Record.		N.A.
Enhanced Durability and Reduced Maintenance		
A5.406.1.1 Service life. Select materials for longevity and minimal deterioration under conditions of use. **A5.406.1.2 Reduced maintenance.** Select materials that require little, if any, finishing. **A5.406.1.3 Recyclability.** Select materials that can be re-used or recycled at the end of their service life.		N.A.
Weather Resistance and Moisture Management		
5.407.1 Weather protection. Provide a weather-resistant exterior wall and foundation envelope as required by *California Building Code*, Section 1403.2 and *California Energy Code*, Section 150, manufacturer's installation instructions or local ordinance, whichever is more stringent.3	☒	NEW STRUCTURE TO COMPLY
5.407.2 Moisture control. Employ moisture control measures by the following methods; **5.407.2.1 Sprinklers.** Prevent irrigation spray on structures. **5.407.2.2 Entries and openings.** Design exterior entries and openings to prevent water intrusion into buildings.	☒ ☒	NEW STRUCTURE TO COMPLY
Construction Waste Reduction, Disposal and Recycling		
5.408.1 Construction waste management. Recycle and/or salvage for reuse a minimum of 50% of the non- hazardous construction waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent. **5.408.1.1 Construction waste management plan.** Where a local jurisdiction does not have a construction and demolition waste management ordinance that is more stringent, submit a construction waste management plan that complies with Items 1 through 4 of this section. **5.408.1.2 Waste management company.** Utilize a waste management company that can provide verifiable documentation that the percentage of construction waste material diverted from the landfill complies with this section. **Exceptions to Sections 5.408.1.1 and 5.408.1.2:** 1. Excavated soil and land-clearing debris 2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist. 3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets **5.408.1.4 Documentation.** Provide documentation of the waste management plan that meets the requirements listed in Sections 5.408.1.1 through 5.408.1.3, and the plan is accessible to the enforcement authority. **5.408.3 Excavated soil and land clearing debris.** 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. **Exception:** Reuse, either on-or off-site, of vegetation or soil contaminated by disease or pest infestation.	☒ or ☒ ☒ ☒ ☒	CONTRACTOR TO PROVIDE RECYCLE PLAN CONTRACTOR TO UTILIZE WASTE MANAGEMENT COMPANY CONTRACTOR TO PROVIDE WASTE MANAGEMENT PLAN CONTRACTOR TO RECYCLE ALL VEGETATION REMOVED FROM SITE

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SECTION A5.602
NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS—continued

APPLICATION CHECKLIST FOR BSC	MANDATORY	REQUIREMENT
A5.408.3.1 Enhanced construction waste reduction–Tier 1. Divert to recycle or salvage at least 65% of nonhazardous construction and demolition waste generated at the site. **A5.408.3.1.1 Enhanced construction waste reduction–Tier 2.** Divert to recycle or salvage at least 80% of nonhazardous construction waste generated at the site. **A5.408.3.1.2 Verification of compliance.** A copy of the completed waste management report or documentation of certification of the waste management company utilized shall be provided. **Exceptions:** 1. Excavated soil and land-clearing debris 2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist 3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.		N.A.
Life Cycle Assessment		
A5.409.1 General. Life cycle assessment shall be ISO 14044 compliant. The service life of the building and materials assemblies shall not be less than 60 years. **A5.409.2 Whole building life cycle assessment.** Conduct a whole building life assessment, including operating energy, showing that the building project achieves at least a 10-percent improvement for at least three of the impacts listed in Section A5.409.2.2, one of which shall be climate change, compared to a reference building. **A5.409.3 Materials and system assemblies.** If whole building analysis of the project is not elected, select a minimum of 50% of materials or assemblies based on life cycle assessment of at least three for the impacts listed in Section A5.409.2.2, one of which shall be climate change. **A5.409.4 Substitution for prescriptive standards.** Performance of a life cycle assessment completed in accordance with Section A5.409.2 may be substituted for other prescriptive provisions of Division A5.4, including those made mandatory through local adoption of Tier 1 or Tier 2 in Division A5.6. **A5.409.5 Verification of compliance.** Documentation of compliance shall be provided as follows: 1. The assessment is performed in accordance with ISO 14044. 2. The project meets the requirements of other parts of Title 24. 3. A copy of the analysis shall be made available to the enforcement authority. 4. A copy of the analysis and any maintenance or training recommendations shall be included in the operation and maintenance manual. See notes for available tools.		N.A.
Building Maintenance and Operation		
5.410.1 Recycling by occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of nonhazardous materials for recycling.3 **5.410.1.1 Additions.** [A] All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30 percent or more in floor area, shall provide recyling areas on site. **Exception:** Additions within a tenant space resulting in less than a 30-percent increase in the tenant space floor area.	☒	EXISTING RECYCLING BINS ARE PROVIDED PER CITY REQUIREMENTS. NO NEW SQUARE FOOTAGE IS BEING CONSTRUCTED. NO NEW RECYCLING BINS ARE REQUIRED.
5.410.2 Commissioning. [N] For new buildings 10,000 square feet and over, building commissioning for all building systems covered by Title 24, Part 6, process systems and renewable energy systems shall be included in the design and construction processes of the building project. Commissioning requirements shall include items listed in Section 5.410.2. **Exceptions:** 1. Dry storage warehouses of any size 2. Areas under 10,000 square feet used for offices or other conditioned accessory spaces within dry storage warehouses 3. Tenant improvements under 10,000 square feet as described in Section 303.1.1. **5.410.2.1 Owner's Project Requirements (OPR). [N]** Documented before the design phase of the project begins the OPR shall include items listed in Section 5.410.4.	☒ ☒	N.A.
5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project to cover the systems listed in Section 5.410.2.2. **5.410.2.3 Commissioning plan. [N]** A commissioning plan describing how the project will be commissioned shall include items listed in Section 5.410.2.3. **5.410.2.4 [N]** Functional performance testing shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. **5.410.2.5 Documentation and training. [N]** A Systems manual and systems operations training are required. **5.410.2.5.1 Systems manual. [N]** The systems manual shall be delivered to the building owner or representative and facilities operator and shall include the items listed in Section 5.410.2.5.1. **5.410.2.5.2 Systems operations training. [N]** A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and shall include items listed in Section 5.410.2.5.2. **5.410.2.6 Commissioning report. [N]** A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.	☒ ☒ ☒ ☒ ☒ ☒ ☒	N.A. N.A. N.A. N.A. N.A. N.A. N.A.

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SECTION A5.602
NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS—continued

APPLICATION CHECKLIST FOR BSC	MANDATORY	REQUIREMENT
5.410.4 Testing and adjusting. Testing and adjusting of systems shall be required for buildings less than 10,000 square feet. Applies to new systems serving additions or alterations. **5.410.4.2 Systems.** Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include, as applicable to the project, the systems listed in Section 5.410.4.2. **5.410.4.3 Procedures.** Perform testing and adjusting procedures in accordance with applicable standards on each system as determined by the enforcing agency. **5.410.4.3.1 HVAC balancing.** Before a new space-conditioning system serving a building or space is operated for normal use, balance in accordance with the procedures defined by national standards listed in Section 5.410.4.3.1 or as approved by the enforcing agency. **5.410.4.4 Reporting.** After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services. **5.410.4.5 Operation and maintenance manual.** Provide the building owner with detailed operating and maintenance instructions and copies of guarantees/warranties for each system prior to final inspection. **5.410.4.5.1 Inspections and reports.** Include a copy of all inspection verifications and reports required by the enforcing agency.	☒ ☒ ☒ ☒ ☒ ☒ ☒	N.A. NEW STRUCTURE IS NOT CONDITIONED
Environmental Quality		
Fireplaces		
5.503.1 Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace or a sealed woodstove and refer to residential requirements in the *California Energy Code*, Title 24, Part 6, Subchapter 7, Section 150. **5.503.1.1 Woodstoves.** Woodstoves shall comply with US EPA Phase II emission limits, where applicable.	☒ As applicable ☒	N.A.
Pollutant Control		
A5.504.1 Indoor air quality (IAQ) during construction. Maintain IAQ as provided in Sections A5.504.1.1 and A5.504.1.2. **A5.504.1.1 Temporary ventilation.** Provide temporary ventilation during construction in accordance with Section 121 of the *California Energy Code*, CCR, Title 24, Part 6 and Chapter 4 of CCR, Title 8 and as listed in Items 1 and 2 in Section A5.504.1.2. **A5.504.1.2 Additional IAQ measures.** Employ additional measures as listed in Items 1 through 5 in Section A5.504.1.3. **5.504.1.3 Temporary ventilation.** If the HVAC system is used during construction, use return air filters with a MERV of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992. Replace all filters immediately prior to occupancy. Applies to additions or alterations.	☒	N.A. NEW STRUCTURE IS NOT CONDITIONED
A5.504.2 IAQ postconstruction. Flush out the building per Section A5.504.2 prior to occupancy or if the building is occupied. **A5.504.2.1 IAQ Testing.** A testing alternative may be employed after all interior finishes have been installed, using testing protocols recognized by the United State Environmental Protection Agency (U.S. EPA) and in accordance with Section A5.504.2.1.2. Retest as required in Section A5.504.2.1.3. **A5.504.2.1.1 Maximum levels of contaminants.** Allowable levels of contaminant concentrations measured by testing shall not exceed the following: 1. Carbon Monoxide (CO): 9 parts per million, not to exceed outdoor levels by 2 parts per million; 2. Formaldehyde: 27 parts per billion; 3. Particulates (PM10): 50 micrograms per cubic meter; 4. 4-Phenylcyclohexene (4-PCH): 6.5 micrograms per cubic meter; and 5. Total Volatile Organic Compounds (TVOC): 300 micrograms per cubic meter. **A5.504.2.1.2 Test protocols.** Testing of indoor air quality should include the elements listed in Items 1 through 4. **A5.504.2.1.3 Noncomplying building areas.** For each sampling area of the building exceeding the maximum concentrations specified in Section A5.504.2.1.1, flush out with outside air and retest samples taken from the same area. Repeat the procedures until testing demonstrates compliance.		N.A.

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SECTION A5.602
NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS—continued

APPLICATION CHECKLIST FOR BSC	MANDATORY	REQUIREMENT
5.504.3 Covering of duct openings and protection of mechanical equipment during construction. At the time of rough installation and during storage on the construction site and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.	☒	N.A. NEW BUILDING IS NOT CONDITIONED
5.504.4 Finish material pollutant control. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.4. **5.504.4.1 Adhesives, sealants, caulks.** Adhesives and sealants used on the project shall meet the requirements of the following standards. 1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. 2. Aerosol adhesives and smaller unit sizes of adhesives and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507. **5.504.4.3 Paints and coatings.** Architectural paints and coatings shall comply with Table 5.504.4.3 unless more stringent local limits apply. **5.504.4.3.1 Aerosol paints and coatings.** Aerosol paints and coatings shall meet the Product- Weighted MIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances (CCR, Title 17, Section 94520, et seq.). **5.504.4.3.2 Verification.** Verification of compliance with this section shall be provided at the request of the enforcing agency. **5.504.4.4 Carpet systems.** All carpet installed in the building interior shall meet the testing and product requirements of one of the standards listed in Section 5.504.4.4. **5.504.4.4.1 Carpet cushion.** All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute's Green Label program. **5.504.4.4.2 Carpet adhesive.** All carpet adhesive shall meet the requirements of Table 5.504.4.1. **5.504.4.5 Composite wood products.** Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in Table 5.504.4.5. **A5.504.4.5.1 Early compliance with formaldehyde limits, Tier 1.** Meet the requirements contained in Table A5.504.8.5 before the compliance dates. **A5.504.4.5.2 No added formaldehyde, Tier 2.** Use composite wood products approved by the ARB as no-added formaldehyde (NAF) based resins or ultra-low emitting formaldehyde (ULEF) resins. **5.504.4.5.3 Documentation.** Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following: 1. Product certifications and specifications. 2. Chain of custody certifications. 3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.). 4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards. 5. Other methods acceptable to the enforcing agency.	☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ ☒ As applicable ☒ ☒ ☒ ☒ ☒	CONTRACTOR TO COMPLY CONTRACTOR TO COMPLY CONTRACTOR TO COMPLY CONTRACTOR TO COMPLY CONTRACTOR TO PROVIDE VERIFICATION N.A. NO CARPET N.A. NO CARPET N.A. NO CARPET CONTRACTOR TO COMPLY CONTRACTOR TO PROVIDE VERIFICATION CONTRACTOR TO PROVIDE VERIFICATION CONTRACTOR TO PROVIDE VERIFICATION CONTRACTOR TO PROVIDE VERIFICATION CONTRACTOR TO PROVIDE VERIFICATION CONTRACTOR TO PROVIDE VERIFICATION
5.504.4.6 Resilient flooring systems. Comply with the VOC-emission limits defined in the 2012 CHPS criteria and listed on its High Performance Products Database; products compliant with CHPS criteria certified under the Greenguard Children & Schools program; certified under the FloorScore program of the Resilient Floor Covering Institute; or meet California Department of Public Health 2010 Specification. **A5.504.4.6.1 Verification of compliance.** Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits. **A5.504.4.7 Resilient flooring systems, Tier 1.** For 90 percent of floor area receiving resilient flooring, install resilient flooring complying with the VOC-emission limits defined in the 2009 CHPS criteria and listed on its High Performance Products Database; products compliant with CHPS criteria certified under the Greenguard Children & Schools program; certified under the FloorScore program of the Resilient Floor Covering Institute; or meet California Department of Public Health 2010 Specification 01350. **A5.504.4.7.1 Resilient flooring systems, Tier 2.** For 100 percent of floor area to scheduled to receive resilient flooring, install resilient flooring complying with the VOC-emission limits defined in the 2009 CHPS criteria and listed on its High Performance Products Database; products compliant with CHPS criteria certified under the Greenguard Children & Schools program; certified under the FloorScore program of the Resilient Floor Covering Institute; or meet California Department of Public Health 2010 Specification 01350. **A5.504.4.7.2 Verification of compliance.** Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits. **A5.504.4.8 Thermal insulation, Tier 1.** Comply with the standards listed in Items 1 through 3. **A5.504.4.8.1 Thermal insulation, Tier 2.** Install thermal insulation which complies with Tier 1 plus does not contain any added formaldehyde. **A5.504.4.8.2 Verification of compliance.** Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission limits.	☒ ☒	CONTRACTOR TO COMPLY CONTRACTOR TO PROVIDE VERIFICATION

(continued)

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REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. LOPES
NO. S-4550
EXP. 12/31/17
STRUCTURAL
STATE OF CALIFORNIA

DATE SIGNED: 06/01/17

No.	Date	Revision	By
1	09/16/15	FIRST PLAN CHECK	RJS
2	10/17/16	CYCLE 3 PLAN CHECK	RJS
3	05/10/17	CYCLE 4 PLAN CHECK	MWK
4	10/31/17	RE-BID	

CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

CALIFORNIA GREEN CODE CHECKLIST

CITY OF Fremont

COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed -- Associate Land. Arch.~~	Date	Recommended -- Project Manager	Date

Scale:	NONE
Designed By:	AJL
Drawn By:	PS
Date:	10/17/2014
Project No.:	8718 (PWC)
CAD File:	12203 Green Code.dwg
SHEET	13 OF 37

A1.2 1

SECTION A5.602
NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS—continued

APPLICATION CHECKLIST FOR BSC	MANDATORY	REQUIREMENT
A5.504.4.9 Acoustical ceilings and wall panels. Comply with Chapter 8 in Title 24, Part 2 and with the VOC- emission limits defined in the 2009 CHPS criteria and listed on its High Performance Products Database. **A5.504.4.9.1 Verification of compliance.** Documentation shall be provided verifying that acoustical finish materials meet the pollutant emission limits. **A5.504.5 Hazardous particulates and chemical pollutants.** Minimize and control pollutant entry into buildings and cross-contamination of regularly occupied areas. **A5.504.5.1 Entryway systems.** Install permanent entryway systems measuring at least six feet in the primary direction of travel to capture dirt and particulates at entryways directly connected to the outdoors as listed in Items 1 through 3 in Section A5.504.5.1. **A5.504.5.2 Isolation of pollutant sources.** In rooms where activities produce hazardous fumes or chemicals, exhaust them and isolate them from their adjacent rooms as listed in Items 1 through 3 in Section A5.504.5.2. **A5.504.5.3 Filters.** In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a MERV of 8. MERV 8 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual. **Exceptions:** 1. An ASHRAE 10-percent to 15-percent efficiency filter shall be permitted for an HVAC unit meeting the 2013 *California Energy Code* having 60,000 Btu/h or less capacity per fan coil, if the energy use of the air delivery system is 0.4 W/cfm or less at design air flow. 2. Existing mechanical equipment. **A5.504.5.3.1 Labeling.** Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.	☒	N.A. NEW CONSTRUCTION IS NOT CONDITIONED
A5.504.5.3.1 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air infiltration media for outside and return air prior to occupancy that provides at least a MERV of 11.		
A5.504.7 Environmental tobacco smoke (ETS) control. Prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows where outdoor areas are provided for smoking and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University or campus of the University of California, whichever are more stringent.	☐	
Indoor Moisture and Radon Control		
5.505.1 Indoor moisture control. Buildings shall meet or exceed the provisions of *California Building Code*, CCR, Title 24, Part 2, Sections 1203 and Chapter 14.[3]	☒	NEW STRUCTURE TO COMPLY WITH CBC
Air Quality and Exhaust		
5.506.1 Outside air delivery. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 121 of the *California Energy Code* and Chapter 4 of CCR, Title 8 or the applicable local code, whichever is more stringent.[3]	☒	CONTRACTOR TO VERIFY THAT VENTILATION MEETS THE MINIMUM REQUIREMENTS OF C&C, SECTION 121
5.506.2 Carbon dioxide (CO_2) monitoring. For buildings or additions equipped with demand control ventilation, CO_2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the *California Energy Code*, CCR, Section 120(c)5.[3]	☒	N.A. NEW STRUCTURE IS NOT CONDITIONED
Environmental Comfort		
A5.507.1 Lighting and thermal comfort controls. Provide controls in the workplace as described in Sections A5.507.1.1 and A5.507.1.2. **A5.507.1.1 Single-occupant spaces.** Provide individual controls that meet energy use requirements in the *California Energy Code* by Sections A5.507.1.1.1 and A5.507.1.1.2. **A5.507.1.1.1 Lighting.** Provide individual task lighting and/or daylighting controls for at least 90 percent of the building occupants. **A5.507.1.1.2 Thermal comfort.** Provide individual thermal comfort controls for at least 50 percent of the building occupants by Items 1 and 2 in Section A5.507.1.1.2. **A5.507.1.2 Multi-occupant spaces.** Provide lighting and thermal comfort system controls for all shared multi-occupant spaces.		N.A.
A5.507.2 Daylight. Provide daylit spaces as required for toplighting and sidelighting in the *California Energy Code*. In constructing a design, consider Items 1 through 4 in Section A5.507.3.		N.A.

(continued)

SECTION A5.602
NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS—continued

APPLICATION CHECKLIST FOR BSC	MANDATORY	REQUIREMENT
5.508.1.1 Refrigerant piping. Piping compliant with the *California Mechanical Code* shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than $^1/_2$ inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below. **5.508.1.1.1 Threaded pipe.** Threaded connections are permitted at the compressor rack. **5.508.1.1.2 Copper pipe.** Copper tubing with an OD less than $^1/_2$ inch may be used in systems with a refrigerant charge of 5 pounds or less. **5.508.1.1.3.1 Anchorage.** $^1/_2$ inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils. **5.508.1.1.3 Flared tubing connections.** Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil. **Exception:** Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations. **5.508.1.1.4 Elbows.** Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.		N.A.
5.508.1.2 Valves. Valves and fittings shall comply with the *California Mechanical Code* and as follows: **5.508.1.2.1 Pressure relief valves.** For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve. **5.508.1.2.1.1 Pressure detection.** A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve. **5.508.1.2.2 Access valves.** Only Schrader access valves with a brass or steel body are permitted for use. **5.508.1.2.3.1 Valve caps.** For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic. **5.508.1.2.3.2 Seal caps.** If designed for it, the cap shall have a neoprene O-ring in place. **5.508.1.2.3.2.1 Chain tethers.** Chain tethers to fit over the stem are required for valves designed to have seal caps. **Exception:** Valves with seal caps that are not removed from the valve during stem operation. **5.508.2.3 Refrigerated service cases.** Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel, or be coated to prevent corrosion from these substances. **5.508.2.3.1. Coil coating.** Consideration shall be given the heat transfer efficiency of coil coating to maximize energy efficiency. **5.508.2.4 Refrigerant receivers.** Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device that indicates the level of refrigerant in the receiver. **5.508.2.5 Pressure testing.** The system shall be pressure tested during installation prior to evacuation and charging. **5.508.2.5.1 Minimum pressure.** The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum. **5.508.2.5.2 Leaks.** Check the system for leaks, repair any leaks, and retest for pressure using the same gauge. **5.508.2.5.3 Allowable pressure change.** The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge. **5.508.2.6 Evacuation.** The system shall be evacuated after pressure testing and prior to charging. **5.508.2.6.1 First vacuum.** Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes. **5.508.2.6.2 Second vacuum.** Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes. **5.508.2.6.3 Third vacuum.** Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.		

1. Green building measures in this table may be mandatory if adopted by a city, county, or city and county as specified in Section 101.7.
2. Required prerequisite for this Tier.
3. These measures are currently required elsewhere in statute or in regulation.

SECTION A5.602
NONRESIDENTIAL OCCUPANCIES APPLICATION CHECKLISTS—continued

APPLICATION CHECKLIST FOR BSC	MANDATORY	REQUIREMENT
5.507.4 Acoustical control. Employ building assemblies and components with STC values determined in accordance with ASTM E 90 and ASTM E 413 or OITC determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2. **5.507.4.1 Exterior noise transmission, prescriptive method.** Wall and floor-ceiling assemblies exposed to the noise source making up the building envelope shall have exterior wall and roof ceiling assemblies meeting a composite STC rating of at least 50 or a composite OITC rating of no less than 40 with exterior windows of a minimum STC of 40 or OITC of 30 in the locations described in Items 1 and 2. Also applies to addition envelope or altered envelope. **5.507.4.1.1 Noise exposure where noise contours are not readily available.** Buildings exposed to a noise level of 65 dB L_{eq} -1-hr during any hour of operation shall have exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30). Also applies to addition or alteration exterior wall. **5.507.4.2 Performance method.** For buildings located as defined in Sections A5.507.4.1 or A5.507.4.1.1, wall and roof-ceiling assemblies making up the building envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (L_{eq}-1Hr) of 50 dBA in occupied areas during any hour of operation. Also applies to addition envelope or altered envelope. **5.507.4.2.1 Site features.** Exterior features such as sound walls or earth berms may be utilized as appropriate to the project to mitigate sound migration to the interior. Also applies to addition envelope or altered envelope. **5.507.4.2.1 Documentation of compliance.** An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record. **5.507.4.3 Interior sound transmission.** Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.	☒ ☒ ☒ ☒ ☒	N.A. NEW STRUCTURE IS A RESTROOM AND DOES NOT REQUIRE ACOUSTICAL CONTROL
Outdoor Air Quality		
5.508.1 Ozone depletion and global warming reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2. **5.508.1.1 CFCs.** Install HVAC and refrigeration equipment that does not contain CFCs.[2] **5.508.1.2 Halons.** Install fire suppression equipment that does not contain Halons.[3] **A5.508.1.3 Hydrochlorofluorocarbons (HCFCs).** Install HVAC and refrigeration equipment that does not contain HCFCs. **A5.508.1.4 Hydrofluorocarbons (HFCs).** Install HVAC complying with either of the following: 1. Install HVAC, refrigeration and fire suppression equipment that do not contain HFCs or that do not contain HFCs with a global warming potential greater than 150. 2. Install HVAC and refrigeration equipment that limit the use of HFC refrigerant through the use of a secondary heat transfer fluid with a global warming potential no greater than 1.	As applicable ☒ ☒	N.A. NEW STRUCTURE IS NOT CONDITIONED
5.508.3 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities. **Exception:** Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO_2), and potentially other refrigerants.	☒ As applicable	N.A.

(continued)

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STATE OF CALIFORNIA

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CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

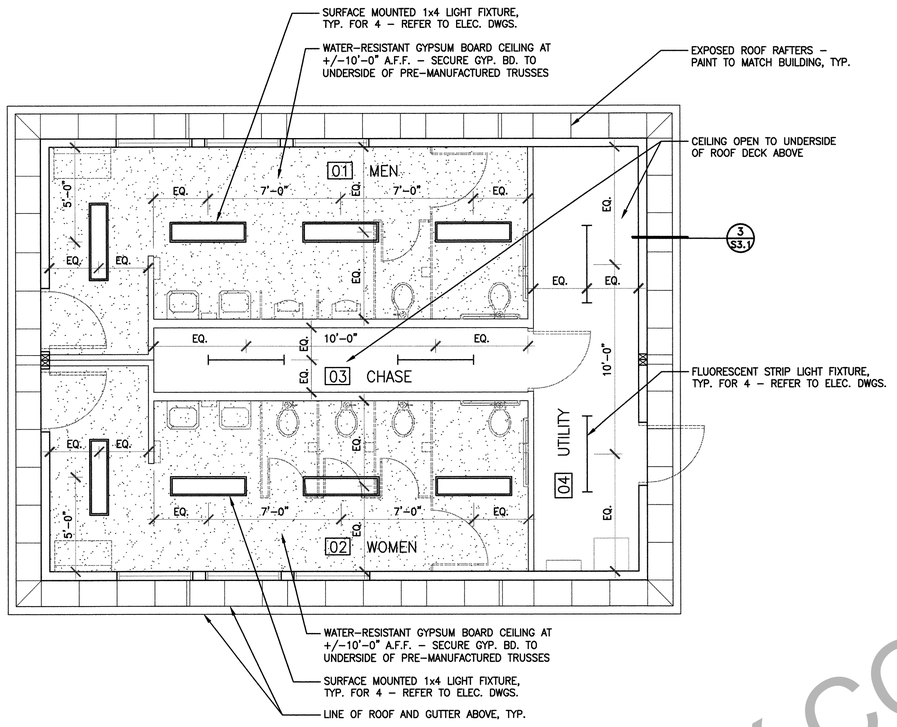
CALIFORNIA GREEN CODE CHECKLIST

CITY OF Fremont
COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed -- Associate Land. Arch.~~ | Date | Recommended -- Project Manager | Date

Scale:	NONE
Designed By:	AJL
Drawn By:	PS
Date:	10/17/2014
Project No.:	8718 (PWC)
CAD File:	12203 Green Code.dwg
SHEET	~~14~~ OF ~~37~~

A1.3 1



REFLECTED CEILING PLAN

1 / 4 " = 1 ' – 0 "

N PLAN N TRUE

INTERIOR FINISH SCHEDULE											
ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS N	WALLS W	WALLS S	WALLS E	WALLS FINISH	CEILING	FINISH	REMARKS
01	MEN	CONCRETE	B–1	GWB	GWB	GWB	GWB	P–2	GWB	P–2	FLOOR SEALER PER SPECIFICATIONS
02	WOMEN	CONCRETE	B–1	GWB	GWB	GWB	GWB	P–2	GWB	P–2	FLOOR SEALER PER SPECIFICATIONS
03	CHASE	CONCRETE	–	PLYWD	PLYWD	PLYWD	PLYWD	P–2	OPEN	P–2	PLYWOOD TO UNDERSIDE OF ROOF DECK
04	UTILITY	CONCRETE	–	PLYWD	PLYWD	PLYWD	PLYWD	P–2	OPEN	P–2	PLYWOOD TO UNDERSIDE OF ROOF DECK

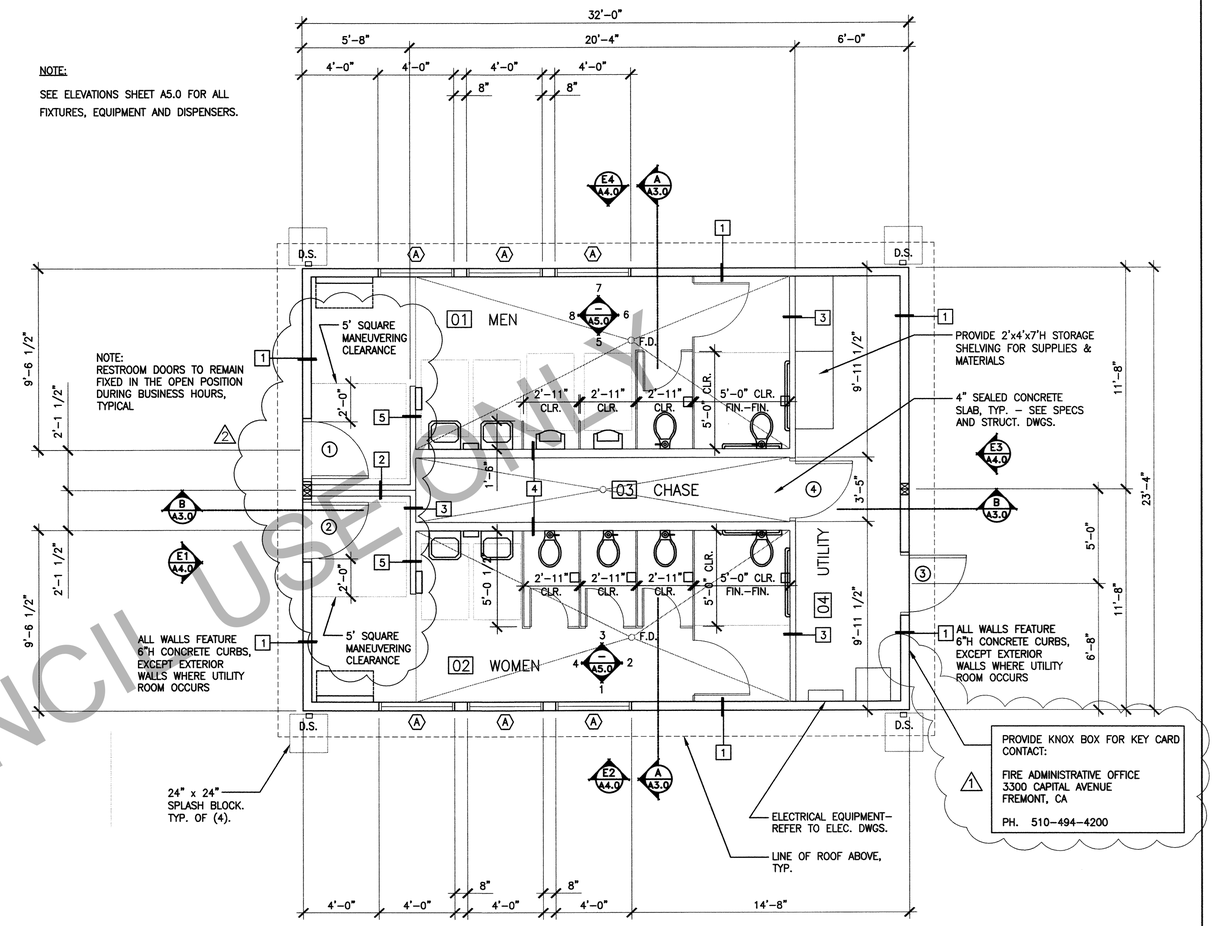
DOOR SCHEDULE	SEE SPECIFICATIONS FOR DOOR HARDWARE
1	3'–0"W x 7'–0"H x 1–3/4"D INSULATED GALV. METAL DOOR, GROUT–FILLED GALV. HOLLOW METAL FRAME, PAINTED P–1
2	3'–0"W x 7'–0"H x 1–3/4"D INSULATED GALV. METAL DOOR, GROUT–FILLED GALV. HOLLOW METAL FRAME, PAINTED P–1
3	3'–0"W x 7'–0"H x 1–3/4"D INSULATED GALV. METAL DOOR, GROUT–FILLED GALV. HOLLOW METAL FRAME, PAINTED P–1
4	3'–0"W x 7'–0"H x 1–3/4"D INSULATED GALV. METAL DOOR, GLAV. HOLLOW METAL FRAME, PAINTED P–1

1 DOOR HARDWARE NOTES:
ALL DOORS TO FEATURE KEY CARD SYSTEM: INSTALL CONDUIT FROM CARD READER TO CONTROL PANEL TO ALLOW CITY BUILDING MAINTENANCE VENDOR TO PULL WIRES AND INSTALL CONTROL AFTER BUILDING COMPLETION.

A. ALL DOORS LEADING TO THE EXTERIOR TO HAVE TOP–MOUNT CLOSERS INSTALLED ON INTERIOR SIDE OF ROOM.
B. DOOR HARDWARE SHALL BE OF THE LEVER OR PUSH TYPE, MOUNTED 34" TO 44" ABOVE THE FLOOR AND BE OPERABLE WITH A MAXIMUM EFFORT OF 5 LBS. FOR ALL DOORS.
C. REGARDLESS OF THE OCCUPANT LOAD SERVED, EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
D. THRESHOLDS SHALL BE NO HIGHER THAN 1/2" ABOVE THE FLOOR. EDGE TO BE BEVELED WITH A SLOPE NO GREATER THAN 1 IN 2.
E. PROVIDE DOOR STOPS ON DOORS #1 AND #2.
F. PROVIDE CYLINDER GUARDS ON ALL MORTISE OR RIM TYPE CYLINDER LOCKS ON OUTSIDE SIDE OF DOOR WHENEVER CYLINDER PROJECTS BEYOND THE FACE OF DOOR OR IS OTHERWISE ACCESSIBLE TO GRIPPING TOOLS.
G. ALL PIN–TYPE HINGES WHICH ARE ACCESSIBLE FROM THE OUTSIDE WHEN THE DOOR IS CLOSED SHALL HAVE NON–REMOVABLE HINGE PINS. IN ADDITION, THEY SHALL HAVE A MIN 1/4" DIAMETER STEEL JAMB STUD WITH 1/4" MIN PROJECTIONS UNLESS THE HINGES ARE SHAPED TO PREVENT REMOVAL OF THE DOOR IF THE HINGE PINS ARE REMOVED.

WINDOW TYPES LEGEND
A 4'–0"W x 1'–6"H ALUMINUM FRAME HORIZONTAL SLIDING WINDOW WITH INSULATED GLASS, – REFER TO DTL. 5/A3.1 & SPECS

NOTE:
SEE ELEVATIONS SHEET A5.0 FOR ALL FIXTURES, EQUIPMENT AND DISPENSERS.



FLOOR PLAN

1 / 4 " = 1 ' – 0 "

N PLAN N TRUE

WALL TYPES LEGEND	(REFER TO DETAIL 3/A3.1 FOR WALL DETAILS, EXCEPT FOR WALL TYPE '1')
1	2x6 WOOD STUDS @ 16" O.C. W/ R–19 BATT INSULATION, EXTERIOR SIDING OVER SHEATHING, 5/8" TYPE 'X' GYPSUM BOARD ON INTERIOR SIDE (5/8" PLYWOOD IN LIEU OF GYP. BD. WHERE UTILITY ROOM OCCURS) – REFER TO DETAILS 1 & 2/A3.1
2	2x4 WOOD STUDS @ 16" O.C. W/ R–19 BATT INSULATION, 5/8" TYPE 'X' GYPSUM BOARD ONE SIDE
3	2x4 WOOD STUDS @ 16" O.C. W/ R–19 BATT INSULATION, 5/8" TYPE 'X' GYPSUM BOARD, 5/8" PLYWOOD CHASE/UTILITY SIDE
4	2x6 WOOD STUDS @ 16" O.C. W/ R–19 BATT INSULATION, 5/8" TYPE 'X' GYPSUM BOARD, 5/8" PLYWOOD CHASE/UTILITY SIDE
5	2x4 WOOD STUDS @ 16" O.C. W/ R–19 BATT INSULATION, 5/8" TYPE 'X' GYPSUM BOARD BOTH SIDES

NOTES:

A. GYPSUM BOARD TO BE WATER–RESISTANT TYPE IN RESTROOMS.

REGISTERED PROFESSIONAL ENGINEER ANTHONY J. LOMAS NO. S–4550 EXP. 12/31/17 STRUCTURAL STATE OF CALIFORNIA

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CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

FLOOR & REFLECTED CEILING PLANS

CITY OF Fremont
COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed~~ ~~Associate Land. Arch.~~ | Date | Recommended –– Project Manager | Date

Scale:	NONE
Designed By:	AJL
Drawn By:	PS
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CAD File:	12203–A2.0–A3.0.dwg
SHEET	15 OF 37

A2.0

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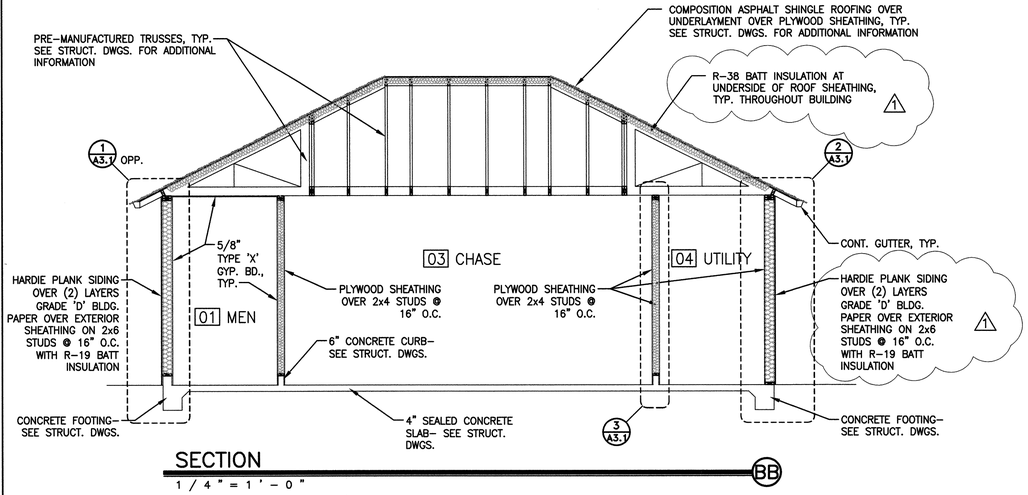

SECTION BB

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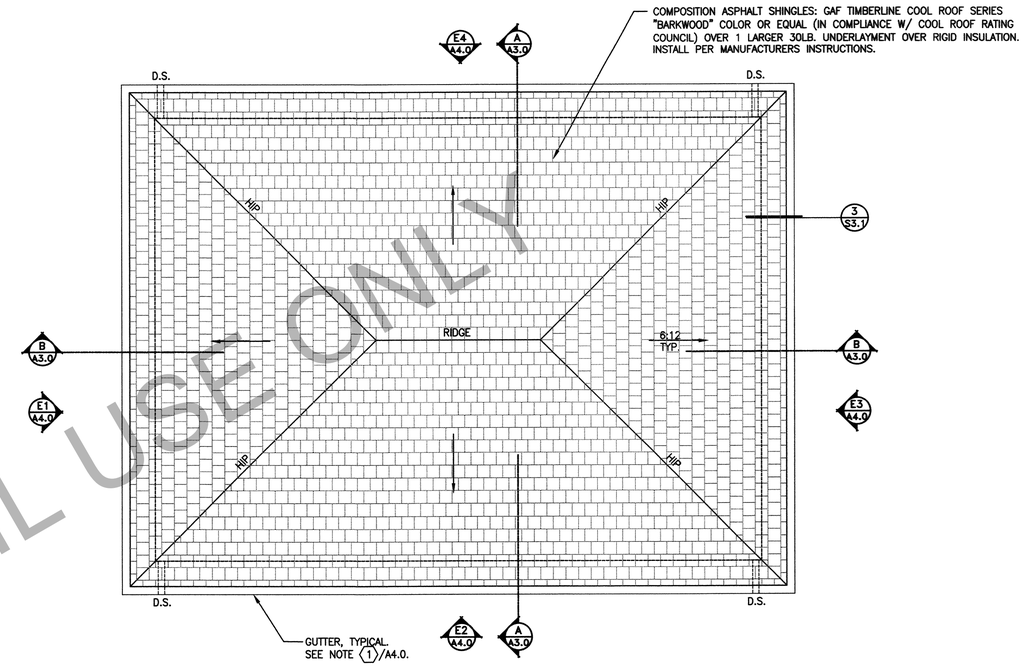
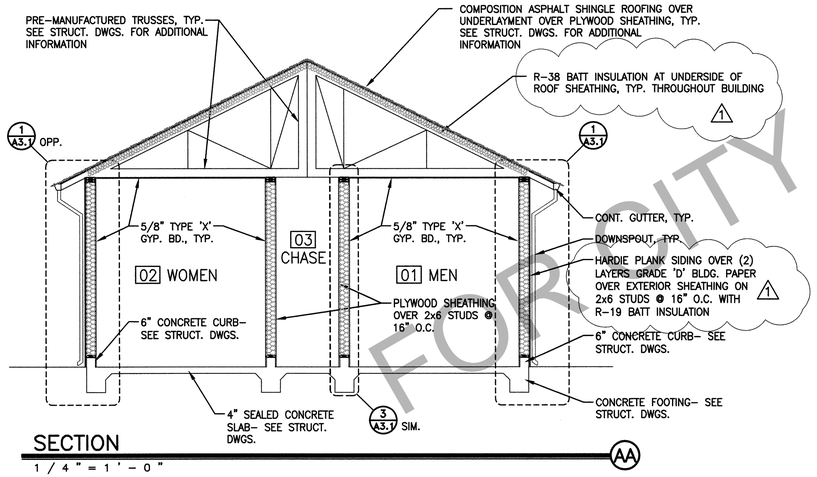


ROOF PLAN

1 / 4 " = 1 ' - 0 "

N PLAN TRUE



SECTION AA

1 / 4 " = 1 ' - 0 "

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1	09/16/15	FIRST PLAN CHECK	RJS
4	10/31/17	RE-BID	

CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

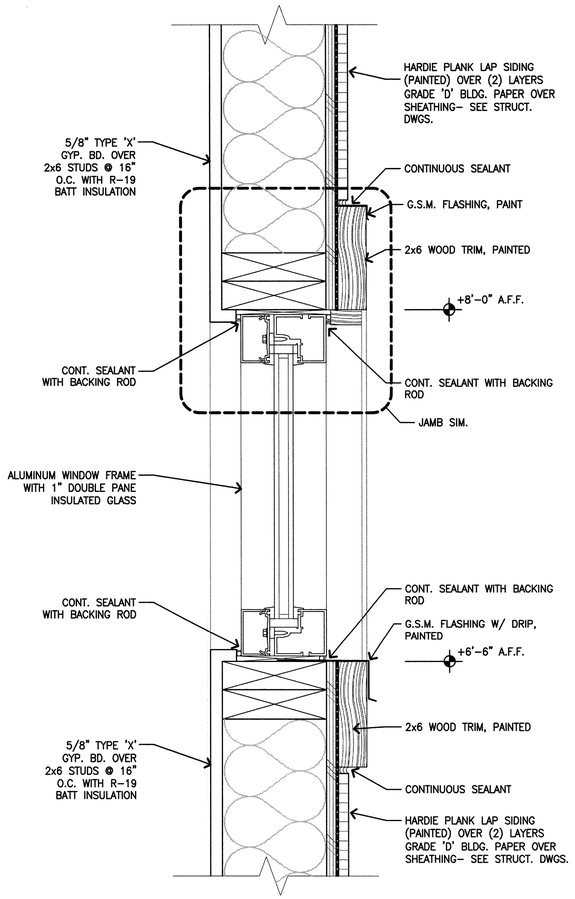
ROOF PLAN & BUILDING SECTIONS

CITY OF Fremont
COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

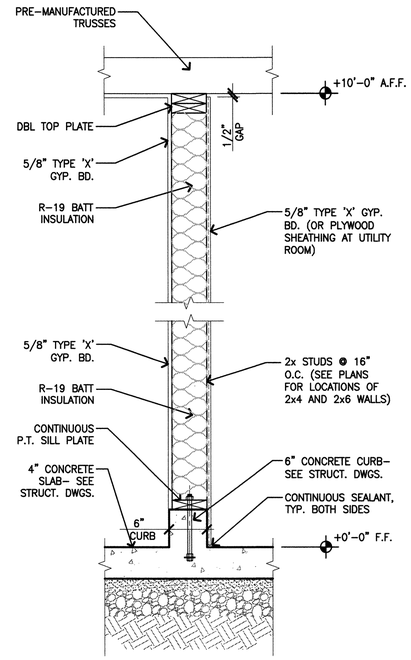
~~Reviewed~~ ~~Associate Land. Arch.~~ | Date | Recommended -- Project Manager | Date

Scale:	NONE
Designed By:	AJL
Drawn By:	PS
Date:	10/17/2014
Project No.:	8718 (PWC)
CAD File:	12203-A2.0-A3.0.dwg
SHEET 16	OF 37

A3.0



5 SECTION AT WINDOWS
3 " = 1 ' – 0 "



AT WALL PARALLEL TO TRUSSES

3 INTERIOR PARTITION (TYP.)
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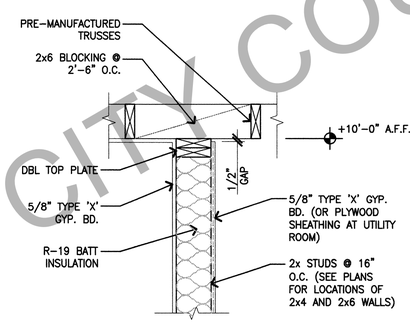

AT WALL PERPENDICULAR TO TRUSSES

4 INTERIOR PARTITION (TYP.)
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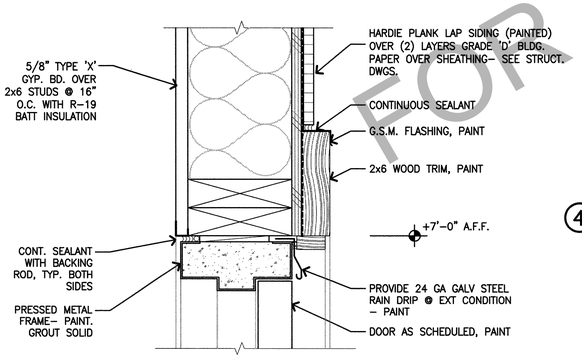
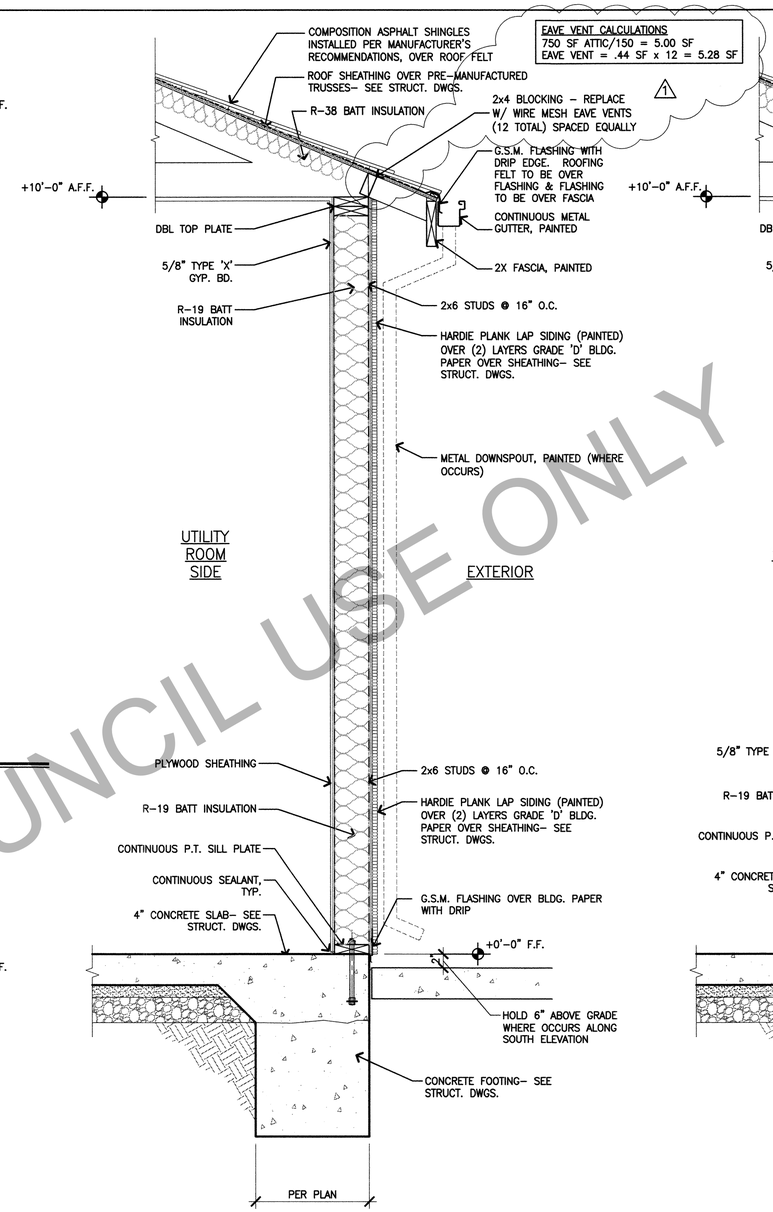


6 EXTERIOR DOOR HEAD (JAMB SIM.)
3 " = 1 ' – 0 "



2 EXTERIOR WALL SECTION W/OUT CURB
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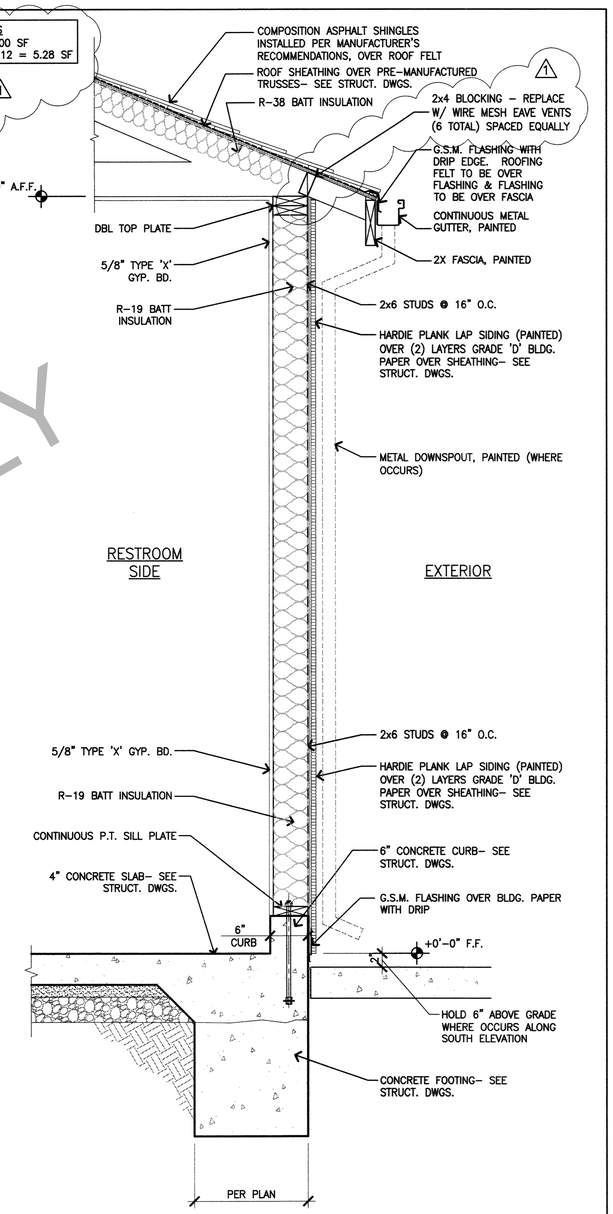

1 EXTERIOR WALL SECTION WITH CURB
1 " = 1 ' – 0 "

FOR CITY COUNCIL USE ONLY

REGISTERED PROFESSIONAL ENGINEER ANTHONY J. LOMAS NO. S-4550 EXP. 12/31/17 STRUCTURAL STATE OF CALIFORNIA

DATE SIGNED: 06/01/17

No.	Date	Revision	By
2	10/17/16	CYCLE 3 PLAN CHECK	RJS
3	05/10/17	CYCLE 4 PLAN CHECK	MWK
4	10/31/17	RE-BID	

CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

WALL SECTIONS & DETAILS

CITY OF Fremont
COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed~~ ~~Associate Land. Arch.~~ | Date | Recommended -- Project Manager | Date

Scale:	NONE
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Date:	10/17/2014
Project No.:	8718 (PWC)
CAD File:	12203-A3.1.dwg
SHEET 17	OF 37

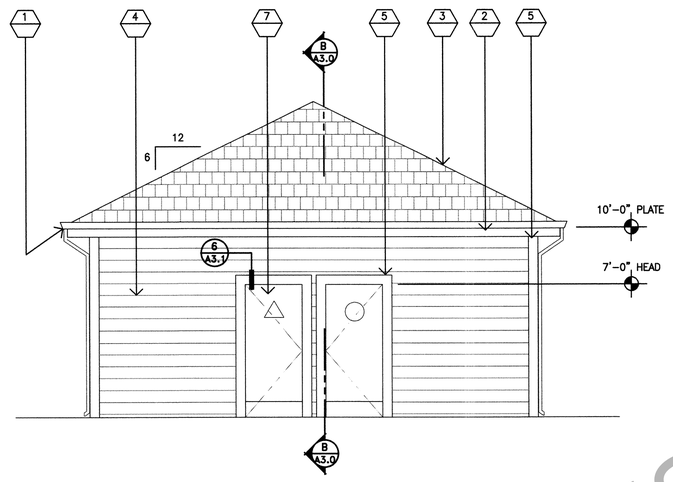
A3.1

EXTERIOR FINISH SCHEDULE

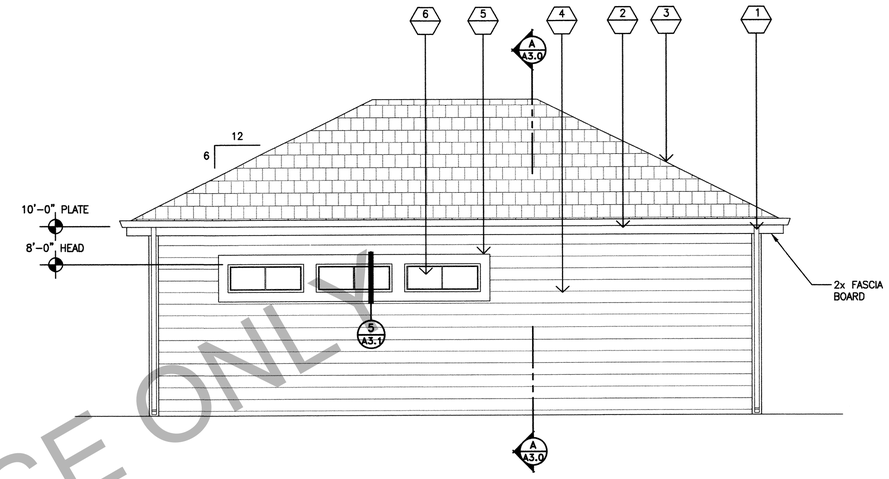
NO.	MATERIAL	MANUFACTURER	FINISH	COLOR	DETAIL	REMARKS
1	GUTTER/DOWNSPOUT	G.C.	PAINT	P-2	1 & 2/A3.1	
2	WOOD FASCIA	G.C.	PAINT	P-2	1 & 2/A3.1	
3	COMP ASPHALT SHINGLE	GAF	FACTORY	TIMBERLANE		
4	SIDING	JAMES HARDIE	PAINT	P-1		HARDIE PLANK LAP SIDING 5/16" X 8-1/4" X 12' CEDARMILL SELECT - HZ10 ZONE
5	WOOD TRIM	G.C.	PAINT	P-2	5 & 6/A3.1	
6	WINDOW	G.C.	FACTORY	CLR.	5/A3.1	CLR. ANODIZED ALUMINUM
7	DOOR	G.C.	PAINT	P-1	6/A3	GALVANIZED H.M., INSULATED

FINISH SCHEDULE

NO.	DESCRIPTION	MANUFACTURER	MFR. NO.	FINISH
B-1	BASE (INTERIOR WALL BASE)	ROPPE	N/A	6" HIGH RUBBER COVE BASE
P-1	PAINT (EXTERIOR COLOR)	KELLY-MOORE	218 'CASCADE BEIGE'	SATIN
P-2	PAINT (INTERIOR COLOR)	SINCLAIR	'ANTIQUE WHITE'	SATIN



WEST ELEVATION
1 / 4 " = 1 ' - 0 "
E1



SOUTH ELEVATION
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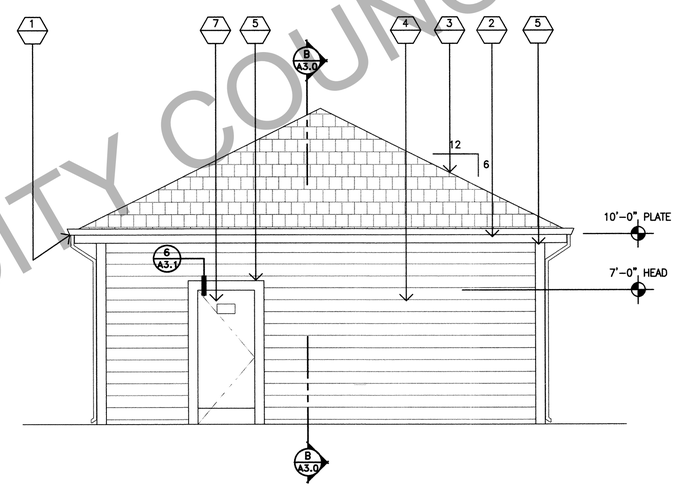
E2



EAST ELEVATION
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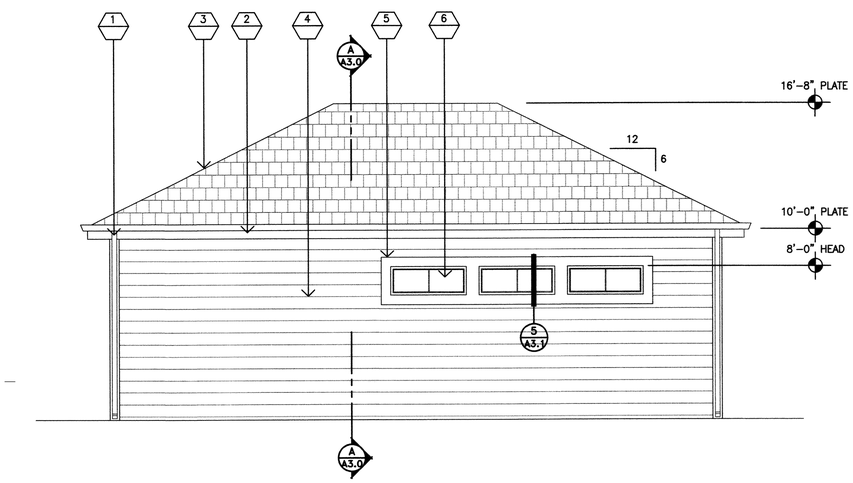
E3



NORTH ELEVATION
1 / 4 " = 1 ' - 0 "
E4

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REGISTERED PROFESSIONAL ENGINEER ANTHONY J. LOUIE NO. S-4550 EXP. 12/31/17 STRUCTURAL STATE OF CALIFORNIA

DATE SIGNED: 06/01/17

No.	Date	Revision	By
1			
2	10/17/16	CYCLE 3 PLAN CHECK	RJS
3	05/10/17	CYCLE 4 PLAN CHECK	MWK
4	10/31/17	RE-BID	
5			

CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

EXTERIOR ELEVATIONS

CITY OF Fremont

COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed~~ ~~Associate Land. Arch.~~ | Date | Recommended -- Project Manager | Date

Scale:	NONE
Designed By:	AJL
Drawn By:	PS
Date:	10/17/2014
Project No.:	8718 (PWC)
CAD File:	12203-A4.0-A5.0.dwg
SHEET 18	OF 37

A4.0

FINISH SCHEDULE

NO.	DESCRIPTION	MANUFACTURER	MFR. NO.	FINISH
B-1	BASE (INTERIOR WALL BASE)	XXXX	N/A	6" HIGH RUBBER COVE BASE
P-1	PAINT (EXTERIOR COLOR)	KELLY-MOORE	218 'CASCADE BEIGE'	SATIN
P-2	PAINT (INTERIOR COLOR)	SINCLAIR	'ANTIQUE WHITE'	SATIN

1

NOTE:

PROVIDE GRAFFITI PROTECTION ON BUILDING EXTERIOR AND INTERIOR – SEE SPECIFICATIONS.

BATHROOM KEYNOTES

NO.	DESCRIPTION	MANUFACTURER	MFR. NO.	FINISH
1	GRAB BARS	BOBRICK	B-5806 X 36	STAINLESS STEEL SATIN
	GRAB BARS	BOBRICK	B-5806 X 42	STAINLESS STEEL SATIN
2	TOILET TISSUE DISPENSER	BOBRICK	B-697	STAINLESS STEEL SATIN
3	TOILET SEAT COVER DISPENSER	BOBRICK	B-3013	STAINLESS STEEL SATIN
4	SOAP DISH	BOBRICK	B-680	STAINLESS STEEL SATIN
5	MIRROR	BOBRICK	B-942	STAINLESS STEEL POLISHED
6	PARTITIONS	BRADLEY	SERIES 700	STAINLESS STEEL SATIN
7	DIAPER CHANGING STATION	KOALA KARE	KB110-SSRE	STAINLESS STEEL SATIN
8	HAND DRYER	DYSON	AB12 AIRBLADE V	NICKEL

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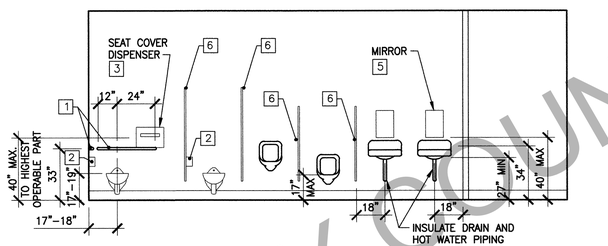

MEN'S 5
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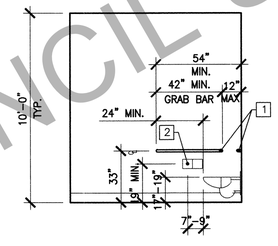

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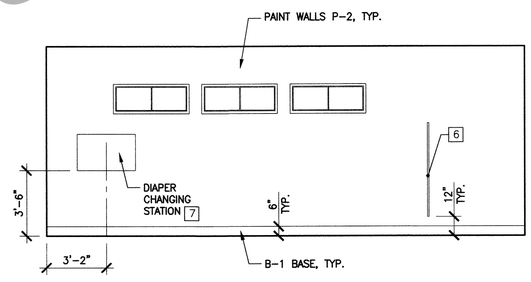

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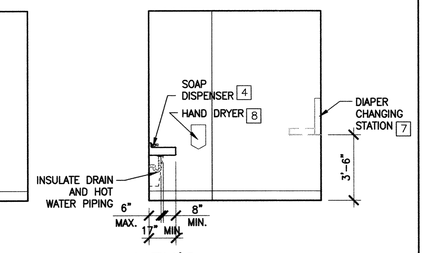

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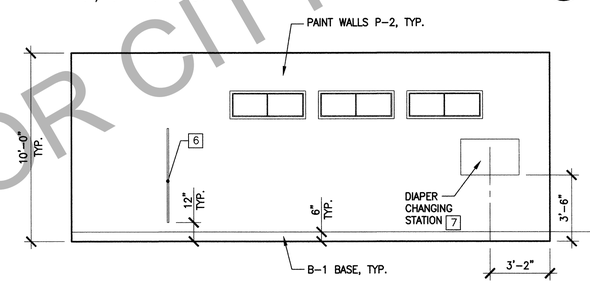

WOMEN'S 1
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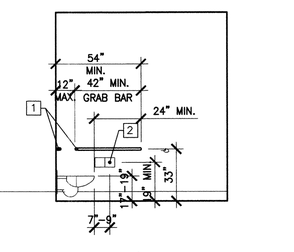

WOMEN'S 2
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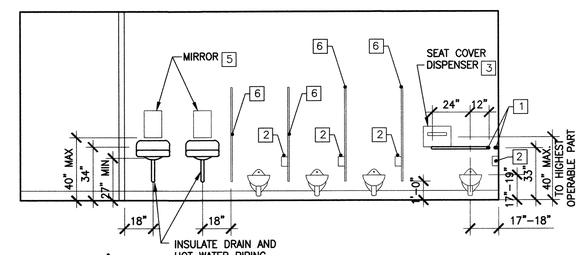
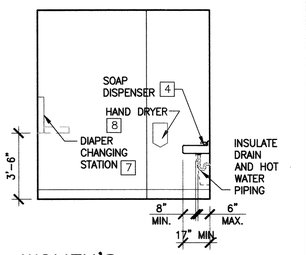


WOMEN'S 3
1 / 4 " = 1 ' - 0 "



WOMEN'S 4
1 / 4 " = 1 ' - 0 "

REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. LOPEZ
NO. S-4550
EXP. 12/31/17
STRUCTURAL
STATE OF CALIFORNIA

DATE SIGNED: 06/01/17

No.	Date	Revision	By
1			
2	10/17/16	CYCLE 3 PLAN CHECK	RJS
3	05/10/17	CYCLE 4 PLAN CHECK	MWK
4	10/31/17	RE-BID	
5			

CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

INTERIOR ELEVATIONS

CITY OF Fremont

COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed -- Associate Land. Arch.~~ | Date | Recommended -- Project Manager | Date

Scale:	NONE
Designed By:	AJL
Drawn By:	PS
Date:	10/17/2014
Project No.:	8718 (PWC)
CAD File:	12203-A4.0-A5.0.dwg
SHEET	19 OF 37

A5.0

BUILDING SIGNAGE

1. The addition of or replacement of signs and/or identification devices shall not trigger any additional path of travel requirements.
2. Identification Signs: Comply with notes A, B, D, E, F
3. Direction and Information Signs: Comply with notes A, B, C
4. Accessibility Signs: Comply with notes A, G

INTERNATIONAL SYMBOL OF ACCESSIBILITY

A) Finish & Contrast
Characters, symbols and their background shall have a nonglare finish. Characters and symbols, shall contrast with their background, either light on a dark background or dark on a light background.

B) Proportions
Characters on signs shall have a width-to-height ratio of between 3:5 and 1:1, and a stroke width to height ratio of between 1:5 and 1:10.

C) Character Height
Characters and Numbers on signs shall be sized according to the viewing distance from which they will be read. The minimum height is measured using an uppercase X. Lowercase characters are permitted. For signs suspended or projected above the finish floor shall have a character height of at least 3 inches.

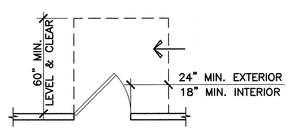
D) Raised Characters and Pictorial Symbol Signs
When raised characters are required or when pictorial symbols (pictograms) are used on signs, they shall conform to the following requirements:
1. Characters shall be raised 1/32" minimum and shall be sans serif uppercase characters accompanied by Grade 2 Braille complying with note E.
2. Raised characters shall be sized a minimum of 5/8" and maximum of 2" high.
3. Pictorial symbols signs shall be accompanied by the verbal description placed directly below the pictogram. The outside dimension of the pictogram field shall be a minimum of 6" in height.

E) Braille
Contracted Grade 2 Braille shall be used wherever Braille is required. Dots shall be 1/10" on centers in each cell with 2/10" space between cells, measured from the second column of dots in the first cell to the first column of dots in the second cell. Dots shall be raised a minimum of 1/40". Braille dots shall be domed or rounded.

F) Mounting Location and Height
Signs shall be installed on the wall adjacent to the latch side of the door. Where there is no wall space on the latch side, including at double leaf doors, signs shall be placed on the nearest adjacent wall, preferably on the right side. Mounting location shall be on the approach side of the door as one enters the room or space. Signs that identify exits shall be located on the approach side of the door as one exits the room. Mounting height shall be 60" above the floor to the center of the sign. Mounting location shall be determined so that a person may approach within 3" of signage without encountering protruding objects or standing within the swing of a door.

G) Symbols of Accessibility
The International Symbol of Accessibility shall be the standard used to identify facilities that are accessible to and usable by physically disabled persons.
1. The symbol shall have a white figure on a blue background. (The blue color shall be equal to color No. 15090 in Federal Standard 595B.)
2. The symbol shall be used to identify all building entrances that are accessible. Provide additional symbols and directional signage along approaching circulation paths.

BUILDING ACCESS



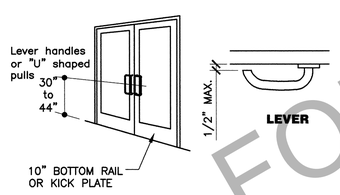
ACCESS DOORS

DOORS & DOOR HARDWARE

1. Every required exit door shall be 36" wide x 6'-8" high minimum.
2. Exit doors shall be able to open at least 90 degrees and the clear width shall not be less than 32".

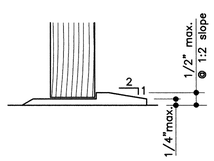
   DOOR OPENING EFFORTS:
   Exterior Doors: 5 lbf max.
   Interior Doors: 5 lbf max.
   Fire Doors: 15 lbf max.

3. Every required exit door shall have a tactile exit sign that complies with CBC 11B-703.1. See BUILDING SIGNAGE notes on this sheet.
4. The lever of lever actuated latches or locks shall be curved with a return to within 1/2" of the door.



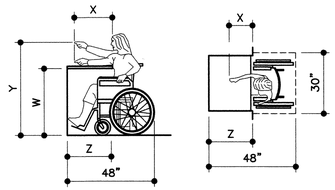
THRESHOLDS

1. Thresholds shall comply with CBC 11B-303.2, 11B-303.3 & 11B-404.2.5.



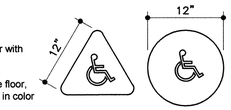
COUNTERS & TABLES

1. 'X' shall be less than or equal to 25". 'Z' shall be greater than or equal to 'X'. When 'X' is less than 20", then 'Y' shall be a maximum of 48". When 'X' is 20" to 25", then 'Y' shall be a maximum of 44". 'W' shall be 27" minimum when 'X' is less than 20", and when 'X' is greater than 20", 'W' shall be 30" minimum.
2. At least 36" or 5% of any countertop's height must be between 32" and 34" from finish floor.

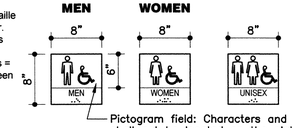


RESTROOM SIGNAGE

1. Characters and symbols shall contrast in color with their background.
2. Symbols shall be centered on door, 60" above floor, and are to be distinctly different from the door in color and contrast.
3. Provide raised letters and contracted (Grade 2) Braille lettering at the latch side of the out side of the door. Lettering shall be raised 1/32", 5/8" to 2" high, sans serif type, upper case, and non-glare contrasting color. Contracted (Grade 2) Braille shall have dots = 1/10" on center in each cell with 2/10" space between cells, raised 1/40" above the background.
4. Braille lettering shall be 48" A.F.F. minimum to baseline of lowest Braille cells and 60" A.F.F. to baseline of the highest line of raised characters.



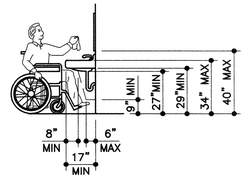
MEN WOMEN



Pictogram field: Characters and Braille shall not be located on the pictogram field

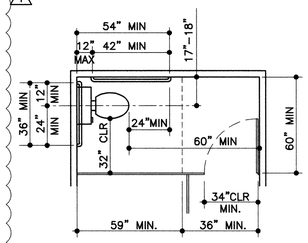
LAVATORY & SINKS

1. Provide a clear space 30" x 48" in front of lavatory. The clear space may encroach into knee and toe space under lavatory a maximum of 19".
2. Insulate or cover hot water and drain pipes under lavatories.
3. No sharp or abrasive surfaces are allowed under lavatories.
4. Faucet controls and operating mechanisms shall be operable with one hand and shall not require tight grasping, pinching or twisting of the wrist. The force required to activate controls shall not exceed 5 lbf. Lever operated, push type and electronically controlled devices are examples of acceptable designs. Self-closing valves are allowed if the faucet remains open for at least 10 seconds.
5. Lavatories, when located adjacent to a side wall or partition shall be a minimum of 18" from wall to centerline of the fixture.
6. Top of lavatory shall not exceed 34" in height from finish floor.
7. Each accessible sink shall be a maximum of 6 1/2" deep.



WATER CLOSETS & STALLS

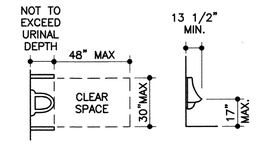
1. Equip the stall door with an auto closing device and provide a clear opening with of 32" at the end of the stall or 34" at the side of the stall.
2. Provide a 44" wide clear path to a stall and 48" space in front of stall door, measured at right angles to the door.
3. In multiple accommodations, provide a space 60" in diameter and 27" high or 56" x 36" with 12" maximum intrusion by a door.
4. All accessible toilet compartment doors shall be equipped with a privacy lock with a loop or U-shaped handle immediately below the latch.
5. Water closet seat shall be 2" high, and top surface shall be 17"-19" above floor.
6. All water closets shall be wall hung.



SIDE ENTRANCE

URINALS

1. Provide stall type floor-mounted or wall-hung urinal with an elongated rim at 17" maximum height above floor. Wall-hung urinals shall have an elongated rim with 14"-17" projection.
2. Flush controls shall not be more than 44" above finish floor.
3. Where urinals are provided, at least one shall have a clear space of 30"x48" in front.



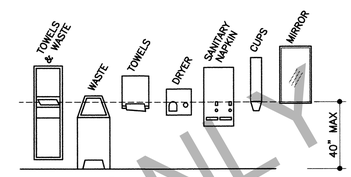
PLAN VIEW ELEVATION

WATER CLOSET & URINAL CONTROLS

Flush controls shall be operable with one hand and shall not require tight grasping, pinching or twisting of the wrist. Controls shall be mounted no more than 44" above the floor and on the clear side of the fixture. Electronic automatic controls are acceptable and preferred.

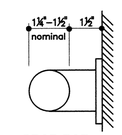
RESTROOM ACCESSORIES

1. Provide a minimum 30"x48" clear floor space to allow forward or parallel approach to accessories.
2. One full unobstructed side of the clear floor space adjoins or overlaps an accessible route or adjoins another wheelchair clear floor space.
3. Mirrors shall be mounted with bottom of reflective surface edge a maximum of 40" from finish floor.
4. Operable parts (including coin slots) of all fixtures or accessories shall be located a maximum of 40" above finish floor. Toilet paper dispenser shall be located no more than 9" from front edge of toilet.
5. Controls and operating mechanisms shall be operable with one hand and do not require tight grasping, pinching or twisting of the wrist.
6. The force required to activate controls shall not exceed 5 lbf.



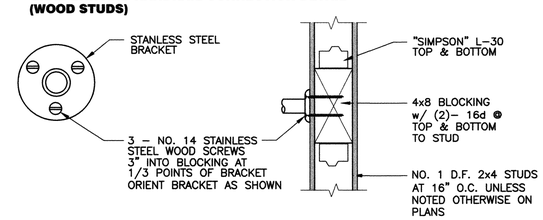
GRAB BARS

1. Locate grab bars on each side or on one side and the back side of toilet, 33" above and parallel to the floor. Bars at side shall be 42" long minimum with the front end at 24" in front of the toilet. Bars in back shall be 36" long minimum. Diameter or width of gripping surface shall be 1-1/4" to 1-1/2" wide.
2. Wall mounted bars shall have a 1-1/2" clear space from wall to inner edge of bar.
3. Grab bars shall not rotate or move.
4. Grab bars and any surface adjacent to them cannot have any sharp or abrasive elements.
5. Grab bars and mountings shall withstand 250 lbs/side and 500 lbs total weight/middle.



GRAB BAR

GRAB BAR AND HANDRAIL CONNECTION DETAIL (WOOD STUDS)



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REGISTERED PROFESSIONAL ENGINEER ANTHONY J. LOPEZ NO. S-4550 EXP. 12/31/17 STRUCTURAL STATE OF CALIFORNIA

DATE SIGNED: 06/01/17

No.	Date	Revision	By
1	09/16/15	FIRST PLAN CHECK	RJS
2	10/17/16	CYCLE 3 PLAN CHECK	RJS
3	05/10/17	CYCLE 4 PLAN CHECK	MWK
4	10/31/17	RE-BID	
5			

CITY OF Fremont

~~Reviewed~~ ~~Associate Land. Arch.~~ | Date | Recommended –– Project Manager | Date

CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

ACCESSIBILITY STANDARDS

COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

Scale:	NONE
Designed By:	AJL
Drawn By:	PS
Date:	10/17/2014
Project No.:	8718 (PWC)
CAD File:	12203-A6.0.dwg
SHEET 20	OF 37

A6.0

1. GENERAL

A. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE 2013 EDITION OF THE CALIFORNIA BUILDING CODE AND STANDARDS AND ALL PUBLICATIONS NOTED HEREIN.

B. DETAILS SHOWN ON THE STRUCTURAL DRAWINGS ARE TYPICAL AND SIMILAR. DETAILS APPLY TO SIMILAR CONDITIONS. SPECIFIC NOTES AND DETAILS ON THE DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.

C. DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER SCALE ON PLANS AND DETAILS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.

D. THE REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS FOR GENERAL COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS.

E. ALL DETAIL CHANGES DESIRED SHALL BE SUBMITTED TO THE ENGINEER IN WRITING. SHOP DRAWINGS DO NOT CONSTITUTE CHANGES IN WRITING. ALONG WITH A LETTER, THE SHOP DRAWINGS SHALL SHOW ALL PROPOSED CHANGES.

F. COORDINATE STRUCTURAL DRAWINGS WITH EQUIPMENT DRAWINGS FOR CONSTRUCTION DETAILS.

2. DESIGN DATA

A. ROOF LIVE LOAD: 20 psf (REDUCE PER ASCE 7–05 SECT. 4.9)

B. WIND DESIGN DATA:

BASIC WIND SPEED (3 SECOND GUST)	85 MPH (FASTEST MILE)
WIND IMPORTANCE FACTOR (I)	1.0
OCCUPANCY CATEGORY	II
WIND EXPOSURE	CATEGORY C

C. EARTHQUAKE DESIGN DATA:

SEISMIC IMPORTANCE FACTOR	1.0
OCCUPANCY CATEGORY	II
MAPPED SPECTRAL RESPONSE ACCELERATION	S_S=2.007g S_1=0.783g
SITE CLASS	TYPE D
SPECTRAL RESPONSE COEFFICIENTS (S_{DS}, S_{D1})	S_{DS}=1.34g S_{D1}=0.78g
SEISMIC DESIGN CATEGORY	D
BASIC SEISMIC–FORCE RESISTING SYSTEM	LIGHT FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE
RESPONSE MOD. FACTOR (R)	6.5
METHOD OF ANALYSIS	EQUIVALENT LATERAL FORCE PROCEDURE

1

3. FOUNDATION

A. FOUNDATION DESIGN CRITERIA:
1) THE FOUNDATION SYSTEM WAS PREPARED IN ACCORDANCE WITH THE RECOMMENDATIONS MADE BY THE GEOTECHNICAL ENGINEER OF RECORD. FOR MORE INFORMATION REFER TO THE FOLLOWING GEOTECHNICAL INVESTIGATION REPORT: ALWAYS DREAM BATHROOM REPLACEMENT, CENTRAL PARK, FREMONT, CALIFORNIA, DATED JULY 31, 2012, AND PREPARED BY EARTH SYSTEMS PACIFIC. REPORT NO. SH–11810–SA.
2) ALLOWABLE BEARING PRESSURE:
   a) 2,000 psf D + L
   b) 2,667 psf D + L + W or E.
3) LATERAL RESISTANCE:
   a) FRICTION COEFFICIENT = 0.25
   b) PASSIVE SOIL RESISTANCE: 200 pcf.

B. FOUNDATION CONSTRUCTION:
1) PLACE REINFORCING STEEL AND CONCRETE AS SOON AS POSSIBLE AFTER EXCAVATION FOR THE FOUNDATION.
2) CONCRETE SHALL OBTAIN THE SPECIFIED 28–DAY CONCRETE COMPRESSIVE STRENGTH PRIOR TO BACK–FILLING AGAINST THE CONCRETE.
3) GRADE BEAMS AND WALL THAT RETAIN EARTH ON BOTH SIDES SHALL BE BACK–FILLED ON BOTH SIDES SIMULTANEOUSLY.

C. SUBGRADE PREPARATION:
1. AFTER EXCAVATION IS COMPLETED THE EXPOSED SOILS SHALL BE SCARIFIED AND RECOMPACTED TO A MINIMUM DEPTH OF 6 INCHES TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM D–1557 TEST METHOD, AT A MOISTURE CONTENT NEAR OPTIMUM, UNLESS OTHERWISE DIRECTED BY THE GEOTECHNICAL ENGINEER. IF ANY SOFT OR LOOSE SOIL POCKETS ARE FOUND IN THE SITE STRIPPING OR RECOMPACTION PROCESS, THEY SHALL BE OVEREXCAVATED AND RECOMPACTED.
2. GRANNULAR MATERIAL BENEATH FLOOR SLABS SHALL BE NONEXPANSIVE AND SHALL HAVE A MAXIMUM PLASTICITY INDEX OF 8.
3. UNLESS OTHERWISE NOTED IN THE ABOVE REFERENCED GEOTECHNICAL REPORT, FILL MATERIAL SHALL BE FREE OF ORGANICS, DEBRIS, AND OTHER DELETRIOUS MATERIALS. FILL MATERIALS SHALL BE ESSENTIALLY NON–PLASTIC AND LESS THAN 3" IN MAXIMUM DIMENSION. WELL GRADED MIXTURES OF GRAVEL, SAND, NON–PLASTIC SILT, SMALL QUANTITIES OF COBBLES AND OR CLAY ARE ACCEPTABLE.

GRADATION	
SIEVE SIZE	PERCENT PASSING
3 INCH	100
NO. 4	50–100
NO. 200	15–70
PLASTICITY	
LL<30	PI<12

D. OBSERVATION AND REPORTING
1) A TESTING COMPANY SHALL BE RETAINED TO PROVIDE OBSERVATION AND TESTING SERVICES DURING THE GRADING AND FOUNDATION PHASE OF CONSTRUCTION.
2) INSPECTION AND TESTING REPORTS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT.

4. CONCRETE

A. GENERAL: ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI AND CBC CODES.

B. CONCRETE STRENGTH: CONCRETE SHALL OBTAIN A MINIMUM 28 DAY DESIGN STRENGTH OF
SLAB: 3,000 PSI;
FOUNDATION: 3,000 PSI.
1) CEMENT (MINIMUM REQUIREMENT):
5.0 SACK PER YARD FOR 2,500 PSI. CONCRETE;
5.5 SACK FOR 3,000 PSI. CONCRETE;
6.0 SACK FOR 4,000 PSI. CONCRETE
2) WATER: MAXIMUM WATER/CEMENT RATIOS:
FOUNDATIONS: 0.60
WALLS AND SLAB: 0.55
3) AGGREGATE: MAXIMUM SIZE 3/4"
4) SLUMP: 4" MAXIMUM.
5) CURING: KEEP WET MINIMUM OF 7 DAYS OR APPLY MEMBRANE CURING COMPOUND APPROVED BY THE ENGINEER.
6) VIBRATION: ALL CONCRETE SHALL BE VIBRATED INTO PLACE WITH A MECHANICAL VIBRATOR.
7) FORM REMOVAL: SIDE FORMS OF FOUNDATIONS AND SLABS AFTER A MINIMUM OF 2 DAYS.
8) TESTING: IN ACCORDANCE WITH ACI–318 LATEST VERSION, CHAPTER 3.

C. REINFORCING MATERIALS:
1) DEFORMED BARS: ASTM A615 GRADE 60, UNLESS OTHERWISE NOTED.
2) ELECTRIC WELDED WIRE FABRIC (WWF): ASTM A–185.
3) MINIMUM LAP SPLICES AS FOLLOWS UNLESS OTHERWISE NOTED:
#3–#4=24", #5=30", #6=36", #7–55", #8–72", #9–92"
4) FOR SLABS ON GROUND, REINFORCING BARS SHALL BE HELD IN PLACE AT THE CENTERLINE OF THE SLAB BY MEANS OF CONCRETE BLOCKS, BAR CHAINS OR OTHER APPROVED METHOD. BARS SHALL NOT BE POSITIONED BY PULLING UP WITH HOOKS AS CONCRETE IS POURED.

D. ANCHOR BOLTS (UNLESS NOTED OTHERWISE ON PLANS):
1) HOOKED BOLTS, HEADED BOLTS, THREADED RODS:
   a. SILL PLATES AND WOOD LEDGERS: ASTM F1554 GR. 36
   b. HOLDOWN BOLTS, WALL ANCHORS:
   ASTM F1554 GR. 36
c. HIGH STRENGTH ANCHORS: ASTM F1554 GR. 55
2) ANCHOR BOLTS EXTENDING THROUGH PRESSURE TREATED WOOD SHALL BE HOT DIPPED GALVANIZED AT LEAST FOR THE PORTION OF BOLTS IN CONTACT WITH PRESSURE TREATMENT. HOT DIP GALVANIZED IS NOT REQUIRED FOR ANCHOR BOLTS WITH D.O.T. TREATED WOOD AT MUDSILLS WITHIN WEATHER–TIGHT WALLS

E. MISCELLANEOUS:
1) PROVIDE 3/4" CHAMFER ON ALL EXPOSED CONCRETE EDGES UNLESS OTHERWISE NOTED ON PLANS.
2) ANCHOR BOLTS AND DOWELS MUST BE SECURELY SUPPORTED IN PLACE BEFORE POURING CONCRETE TO ENSURE PROPER LOCATION PER PLAN.

F. VAPOR BARRIER: ASTM E 1745 CLASS A, B, AND C (SAME AS W.R. MEADOWS' PERMINATOR, STEGO VAPOR BARRIER, OR RYDEN VAPOR BLOCK [10 MIL. MIN.]).

5. WOOD

A. MATERIALS:
1) FOUNDATION SILLS, NAILERS AND LEDGERS IN DIRECT CONTACT WITH CONCRETE AND WITHIN 8" OF THE GROUND:
HEM FIR GRADE #1 OR BETTER, PRESSURE TREATED.
2) ALL 4x AND 6x POSTS: D.F. GRADE #1 OR BETTER.
3) ALL OTHER 6x FRAMING MEMBERS: D.F. GRADE #1 OR BETTER.
4) ALL OTHER 2x OR 4x FRAMING MEMBERS: D.F. GRADE #1 OR BETTER.
5) MINIMUM POST SIZE SHALL BE 2–2x UNLESS NOTED OTHERWISE ON PLANS
6) MINIMUM HEADER SIZES (UNLESS NOTED OTHERWISE ON PLANS):
   a. FOR 2x4 STUD WALL: 4x8
   b. FOR 2x6 STUD WALL: 6x8
   c. FOR 2x8 STUD WALL: 6x10
7) PLYWOOD: ALL PANELS SHALL BE IDENTIFIED WITH THE GRADE MARK OF THE APA:
   a. ROOF PLYWOOD: NOTED ON PLANS
   b. FLOOR PLYWOOD: NOTED ON PLANS
   c. WALL PLYWOOD: NOTED ON PLANS
8) MAXIMUM 19% MOISTURE CONTENT FOR LUMBER MATERIAL DELIVERED TO JOBSITE.
9) PRESERVATIVE TREATMENT: DOT (DISODIUM OCTABORATE TETRAHYDRATE) PER AWPA P5 OR ACQ TYPE B (ALKALINE COPPER QUAT) PER AWPA P5. MINIMUM RETENTION LEVEL 0.25 pcf ABOVE GROUND, 0.40 pcf GROUND CONTACT PER AWPA C15 & C31. FIELD TREAT CUT AND HOLES IN ACCORDANCE WITH AWPA STANDARD M4.
10) GLU–LAMINATED BEAMS ARE GRADE 24F–V4 UNLESS NOTED OTHERWISE.

B. WOOD FASTENERS
1) MACHINE BOLTS: ASTM A307.
2) ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS AND NUTS WHICH BEAR ON WOOD.
3) LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE. WAX THREADS.
4) BOLTS AND SCREWS SHALL BE TIGHTENED AT TIME OF ERECTION AND RE–TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
5) ALL WOOD SCREWS SHALL HAVE CUT THREAD, WITH A MINIMUM PENETRATION OF 7x SHANK DIAMETERS INTO THE MAIN WOOD MEMBER.
6) BOLT HOLES: MAXIMUM 1/16" LARGER THAN BOLT SIZE. OVERSIZED OR SLOTTED HOLES NOT ALLOWED UNLESS SPECIFICALLY NOTED ON PLANS.
7) LAG SCREWS: LEAD HOLES FOR THE THREADED PORTION OF THE SHANK SHALL HAVE A DIAMETER EQUAL TO 75% OF THE SHANK DIAMETER WITH DEPTH EQUAL TO SCREW LENGTH. CLEARANCE HOLES FOR THE SHANK SHALL HAVE THE SAME DIAMETER AS THE SHANK AND THE SAME LENGTH AS THE UNTHREADED SHANK PORTION. DEPTH OF THE LAG SCREW PENETRATION IN THE MAIN MEMBER SHALL BE 8x SHANK DIAMETER UNLESS NOTED OTHERWISE.
8) SPLIT–RING CONNECTORS SHALL BE TECO, OR EQUAL, AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. ANY MEMBER DAMAGED BY INSTALLATION OF CONNECTOR SHALL BE REPLACED. (HOLES FOR BOLTS TO BE BOLT DIAMETER + 1/16")
9) NAIL JOINTS:
   a. ALL NAILS SHALL BE COMMON WIRE NAILS OR SPIKES.
   b. MINIMUM NAILING PER TABLE 2304.9.1 OF CBC, OR AS NOTED ON PLANS.
10) CORROSION RESISTANCE:
   a. ALL NAILS, BOLTS, SCREWS AND HARDWARE SHALL BE HOT–DIPPED GALVANIZED OR STAINLESS WHERE EXPOSED TO WEATHER OR SOIL.
   b. ALL NAILS AND SCREWS FASTENED TO PRESSURE–PRESERVATIVE–TREATED WOOD (INCLUDING WOOD SILLS) SHALL BE HOT DIPPED GALVANIZED PER ASTM A153 OR STAINLESS STEEL 304 OR 316.
   c. ELECTROGALVANIZED FASTENERS SHALL NOT BE SUBSTITUTED FOR HOT–DIPPED GALVANIZED.
   d. SHEET METAL CONNECTORS IN CONTACT WITH PRESSURE–TREATED WOOD SHALL BE STAINLESS OR GALVANIZED COATED PER ASTM A653 CLASS G185.
   e. STAINLESS STEEL OR HOT–DIPPED GALVANIZED CONNECTORS SHALL USE ALL FASTENERS OF THE SAME MATERIAL.
   f. ALUMINUM FASTENERS, CONNECTORS OR FLASHING SHALL NOT BE PLACED IN CONTACT WITH COPPER–BASED PRESSURE–TREATED WOOD (E.G., CA OR ACQ).
11) MISCELLANEOUS METAL CONNECTORS: ALL METAL CONNECTORS USED FOR CONNECTING STRUCTURAL WOOD SHALL HAVE ICBO APPROVAL AND BE SIMPSON STRONG TIE CONNECTORS OR EQUAL.

C. MISCELLANEOUS:
1) PROVIDE BLOCKING AT ALL CHANGES IN CEILING LEVELS.
2) STRUCTURAL MEMBERS SHALL NOT BE CUT FOR PIPES, ETC., UNLESS SPECIFICALLY SHOWN OR NOTED ON PLANS.
3) PIPES EXCEEDING ONE–THIRD OF THE PLATE WIDTH SHALL NOT BE PLACED IN PARTITIONS USED AS BEARING OR LATERAL FORCE RESISTING WALLS, UNLESS FURRED ENTIRELY CLEAR OF STUDS. WHERE ALLOWED, PIPES SHALL BE PLACED IN THE CENTER OF PLATES, USING A NEAT HOLE. NO NOTCHING ALLOWED. 2"ø HOLES ALLOWED IN CENTER OF A 2x6 NOMINAL PLATE.

6. SPECIAL INSPECTION

NOTE: DURING WORK, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE GENERAL PUBLIC.

SPECIAL INSPECTION PER CBC SECTION 17 SHALL BE PROVIDED FOR THE FOLLOWING ITEMS:

A. SOIL PREPARATION:
SPECIAL INSPECTOR OR GEOTECHNICAL ENGINEER SHALL VERIFY SOIL CONDITIONS ARE IN SUBSTANTIAL CONFORMANCE w/ GEOTECHNICAL REPORT RECOMMENDATIONS.

B. CONCRETE:
1) DURING THE TAKING OF TEST SPECIMENS AND PLACING OF REINFORCED CONCRETE.
2) PLACING OF REINFORCING STEEL.
   a. EXCEPTION: THE SPECIAL INSPECTOR NEED NOT BE PRESENT CONTINUOUSLY DURING THE PLACING OF REINFORCING STEEL AND PRESTRESSING TENDONS, PROVIDED THE SPECIAL INSPECTOR HAS INSPECTED FOR CONFORMANCE TO THE APPROVED PLANS PRIOR TO THE CLOSING OF FORMS OR THE DELIVERY OF CONCRETE TO THE JOBSITE.
3) THE SPECIAL INSPECTIONS AND VERIFICATIONS FOR CONCRETE CONSTRUCTION SHALL BE AS REQUIRED BY THIS SECTION AND TABLE 1705.3

TABLE 1705.3
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	----	X
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2, ITEM 2B.	----	----
3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	----	X
4. INSPECTION OF ANCHORS POST–INSTALLED IN HARDENED CONCRETE MEMBERS.	----	X
5. VERIFYING USE OF REQUIRED DESIGN MIX.	----	X
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	----
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	----
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	----	X

ABBREVIATIONS

A.B.	ANCHOR BOLT
ADD'L	ADDITIONAL
ADJ.	ADJACENT
A.F.F	ABOVE FINISH FLOOR
ARCH'L	ARCHITECTURAL
B.F.F.	BELOW FINISH FLOOR
BLKG.	BLOCKING
B.N.	BOUNDARY NAILING
B.O.S.	BOTTOM OF STEEL
CANT'L	CANTILEVERED
C.I.P.	CAST IN PLACE
C.J.	CONTROL JOINT
℄	CENTER LINE
CLG.	CEILING
CLR.	CLEAR
C.M.U.	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONTIN.	CONTINUOUS
DIA., ø	DIAMETER
D.O.	DO OVER (REPEAT)
DWGS.	DRAWINGS
(E)	EXISTING
EA.	EACH
E.F.	EACH FACE
E.N.	EDGE NAILING
EQ.	EQUAL
E.S.	EDGE SCREWS
E.W.	EACH WAY
F.D.	FLOOR DRAIN
FND., FDN.	FOUNDATION
FIN. FL., F.F.	FINISH FLOOR
F.N.	FIELD NAILING
F.P.	FULL PENETRATION WELD
GALV.	GALVANIZED
HDR	HEADER
HORIZ.	HORIZONTAL
K	KIPS
KSI	KIPS PER SQUARE INCH
L	ANGLE
L.L.V.	LONG LEG VERTICAL
LSL	TIMBERSTRAND
LVL	MICRO–LAM (LAMINATED VENEER LUMBER)
MANUF.	MANUFACTURE
MAX.	MAXIMUM
M.B.	MACHINE BOLT
MECH'L	MECHANICAL
M.E.P.	MECHANICAL, ELECTRICAL, PLUMBING
MIN.	MINIMUM
(N)	NEW
O.C.	ON CENTER
PSI	POUNDS PER SQUARE INCH
ℙ	PLATE
PLWD.	PLYWOOD
PSL	PARALLAM
PTDF	PRESSURE–TREATED
PTHF	PRESSURE–TREATED HEM–FIR
REINF.	REINFORCING
REQ'D	REQUIRED
SCHED.	SCHEDULE
SDS	HILTI SELF–DRILLING SCREW
SHT.	SHEET
SHTG.	SHEATHING
SIM.	SIMILAR
S.J.I.	STEEL JOIST INSTITUTE
S.M.S.	SHEET METAL SCREWS
STD	STANDARD
STRUCT.	STRUCTURAL
T.C.	TENSION–CONTROL (BOLTS)
TJI	TRUSS JOIST MACMILLAN ("I" JOIST)
T.O.B.	TOP OF BEAM
T.O.P.	TOP OF PLYWOOD
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TYP., (TYP)	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
w/	WITH
W.P.J.	WEAKENED PLANE JOINT
W.W.F.	WELDED WIRE FABRIC

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REGISTERED PROFESSIONAL ENGINEER ANTHONY J. LOPEZ NO. S-4550 EXP. 12/31/17 STRUCTURAL STATE OF CALIFORNIA

DATE SIGNED: 06/01/17

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1	09/16/15	FIRST PLAN CHECK	RJS
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4	10/31/17	RE–BID	
5			

CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

STRUCTURAL NOTES

CITY OF Fremont
COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed~~ ~~Associate Land. Arch.~~ | Date | Recommended –– Project Manager | Date

Scale:	NONE
Designed By:	AJL
Drawn By:	PS
Date:	10/17/2014
Project No.:	8718 (PWC)
CAD File:	12203S–NTS.dwg
SHEET 21	OF 37

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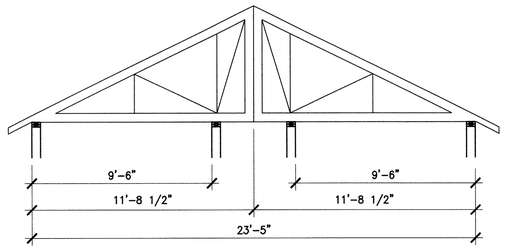


TRUSS SSCHEMATIC

1 / 4 " = 1 ' - 0 "

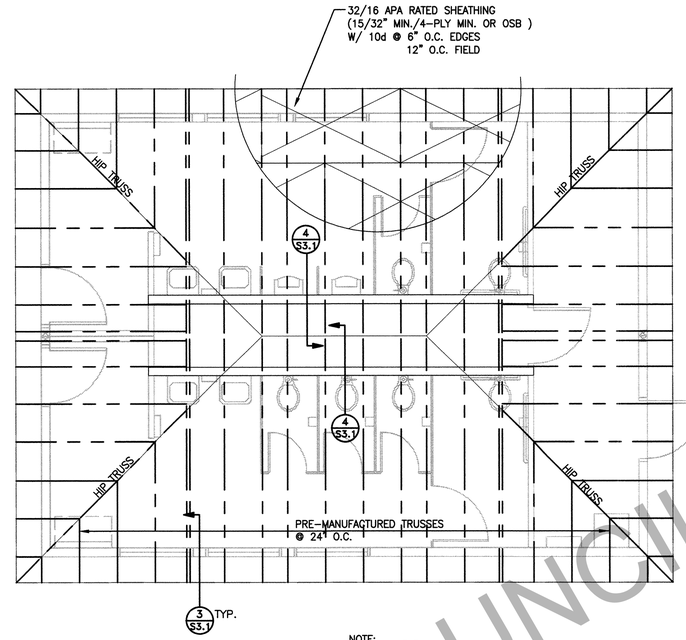
ROOF TRUSS NOTES

1. ROOF TRUSS DESIGN LOADS:
   20 psf LIVE LOAD
   25 psf DEAD LOAD + TRUSS WEIGHT

   A. LIVE LOAD REDUCIBLE PER ASCE 7-05 SECT. 4.9
   B. AXIAL LOADS PER PLAN ARE ALLOWABLE STRESS DESIGN VALUES UNLESS LABELED AS "STRENGTH DESIGN"

2. ROOF TRUSSES: REFER TO DRAWINGS BY ROOF TRUSS MANUFACTURER FOR ROOF MEMBER SIZES, BRIDGING, BRACING & TYPICAL DETAILS

   A. WOOD TRUSS MANUFACTURER TO PROVIDE SIEGFRIED ENGINEERING WITH CALCULATIONS FOR TRUSSES AND GIRDERS.

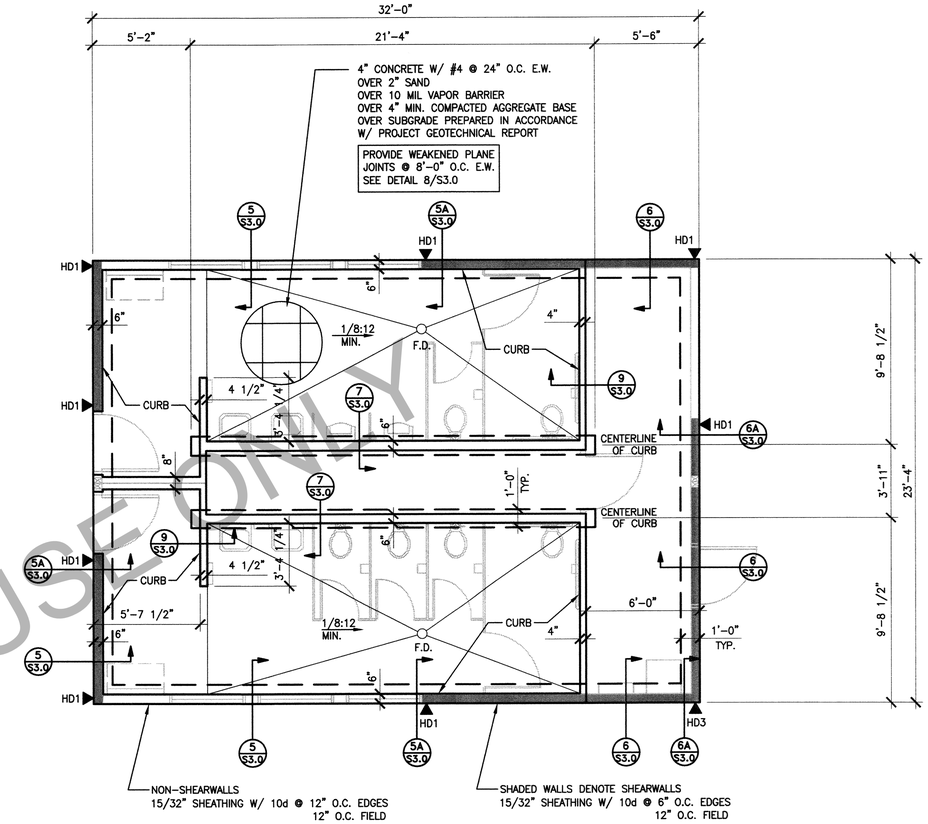


NOTE:
1. SEE DETAILS 1/S3.1 & 2/S3.1 FOR TOP OF WALL CONNECTIONS

ROOF FRAMING PLAN

1 / 4 " = 1 ' - 0 "

PLAN TRUE



SILL BOLTING: 5/8"ø A.B.
@ 48" O.C. MIN. W/
3"x3"x1/4" PLATE WASHER

HOLDOWNS

MARK	SIMPSON HOLDOWN	POST CONNECTORS	SIMPSON ANCHOR BOLT	MINIMUM POST
HD1	LTT20B	(2)-1/2"ø BOLT	SB 5/8 x 24	DBL STUD
HD2	HD5B	(2)- 3/4"ø BOLT	SB 5/8 x 24	4X

FOUNDATION PLAN

1 / 4 " = 1 ' - 0 "

PLAN TRUE

FOR CITY COUNCIL USE ONLY

REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. LOPEZ
NO. S-4550
EXP. 12/31/17
STRUCTURAL
STATE OF CALIFORNIA

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CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

FOUNDATION & ROOF FRAMING PLANS

CITY OF Fremont
COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed~~ ~~Associate Land. Arch.~~ | Date | Recommended -- Project Manager | Date

Scale:	NONE
Designed By:	AJL
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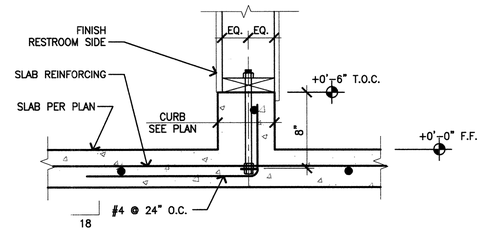
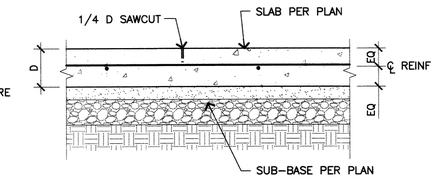
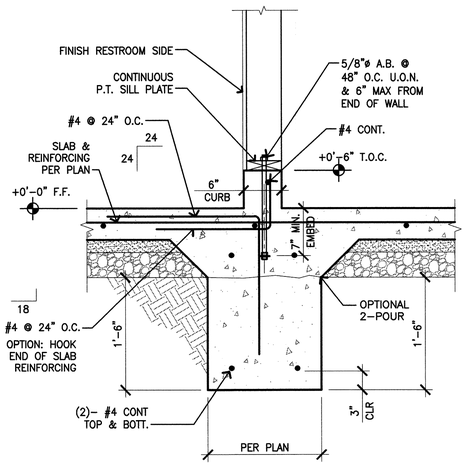


9 INTERIOR CURB
1 - 1 / 2 " = 1 ' - 0 "

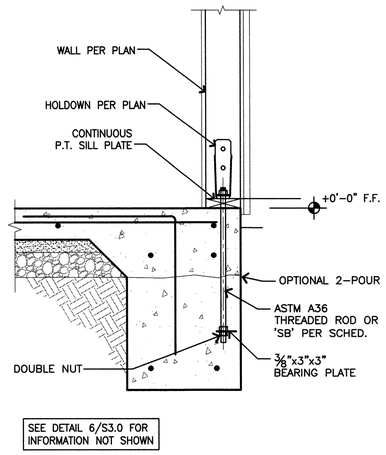
NOTE: SEAL JOINT W/ EPOXY JOINT FILLER (SHORE EDGE HARDNESS OF 50) AFTER SLAB CURES.



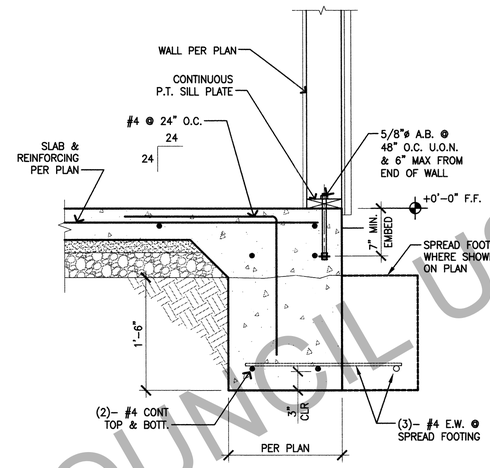
8 WEAKENED PLANE JOINT DETAIL
1 " = 1 ' - 0 "



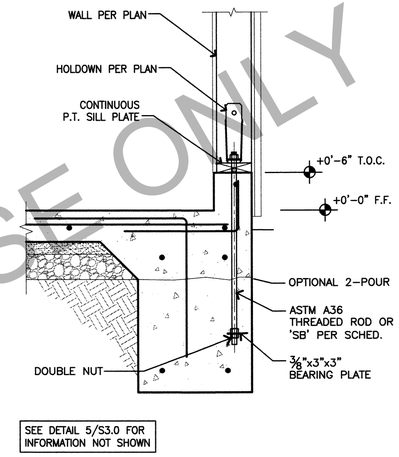
7 INTERIOR FOOTING W/ CURB
1 " = 1 ' - 0 "



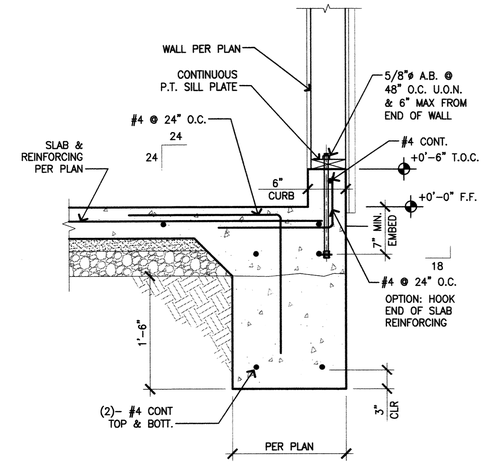
6A HOLDOWN W/O CURB
1 " = 1 ' - 0 "



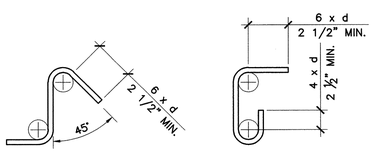
6 CONTINUOUS FOOTING W/O CURB
1 " = 1 ' - 0 "



5A HOLDOWN W/ CURB
1 " = 1 ' - 0 "

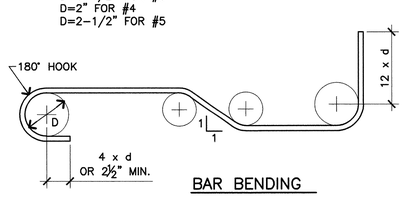


5 CONTINUOUS FOOTING W/ CURB
1 " = 1 ' - 0 "



STIRRUPS & TIES SEISMIC STIRRUPS & TIES

INSIDE DIAMETER (D) FOR TIE BENDS
D=1-1/2" FOR #3
D=2" FOR #4
D=2-1/2" FOR #5

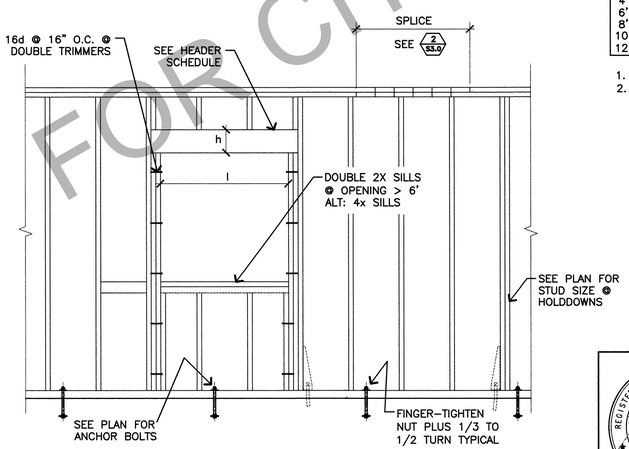


BAR BENDING

INSIDE DIAMETER (D) FOR ALL BENDS
6 BAR DIA. (d) FOR #3 THRU #8

10 BAR DIA. (d) FOR #11 & LARGER

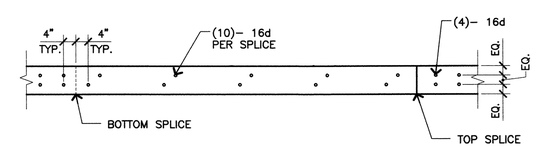
4 TYPICAL BAR BENDING
3 / 4 " = 1 ' - 0 "



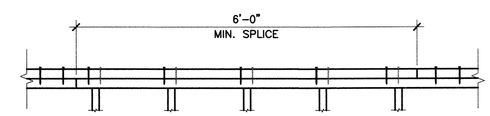
3 TYP. WALL FRAMING
1 / 2 " = 1 ' - 0 "

HEADER SCHEDULE (MINIMUMS)			
	HEADER		
	4" WALL	6" WALL	8" WALL
	bxh	bxh	bxh
2'	4x6	6x4	8x4
4'	4x6	6x6	8x4
6'	4x8	6x8	8x6
8'	4x10	6x8	8x8
10'	4x12	6x10	8x8
12'	4x14	6x12	8x10

1. UNLESS NOTED OTHERWISE.
2. DF#1 OR BETTER.

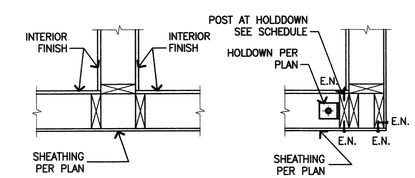


PLAN VIEW OF PLATE SPLICE



ELEVATION VIEW OF PLATE SPLICE

2 TYP. TOP PLATE SPLICE
3 / 4 " = 1 ' - 0 "



INTERSECTION CORNER

1 WALL PLAN DETAILS
1 " = 1 ' - 0 "

REGISTERED PROFESSIONAL ENGINEER ANTHONY J. LOPEZ NO. S-4550 EXP. 12/31/17 STRUCTURAL STATE OF CALIFORNIA

DATE SIGNED: 06/01/17

No.	Date	Revision	By
1			
2	10/17/16	CYCLE 3 PLAN CHECK	RJS
3	05/10/17	CYCLE 4 PLAN CHECK	MWK
4	10/31/17	RE-BID	
5			

CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD
FOUNDATION-FRAMING DETAILS

CITY OF Fremont
COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed~~ ~~Associate Land. Arch.~~ | Date | Recommended -- Project Manager | Date

Scale:	NONE
Designed By:	AJL
Drawn By:	PS
Date:	10/17/2014
Project No.:	8718 (PWC)
CAD File:	12203DET.dwg
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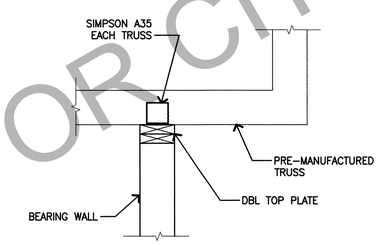
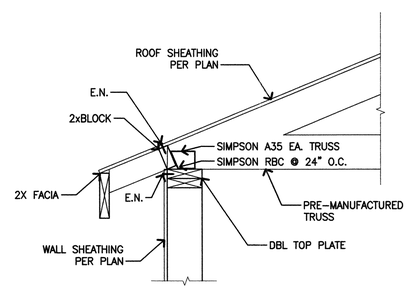
FOR CITY COUNCIL USE ONLY

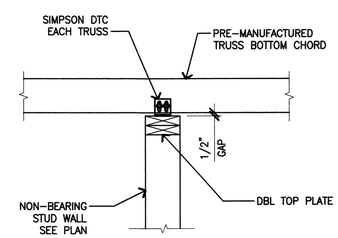
FOR CITY COUNCIL USE ONLY



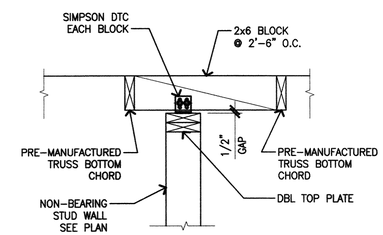
④ DETAIL
1" = 1'-0"



③ DETAIL
1" = 1'-0"



② WALL PERPEND. TO TRUSS
1" = 1'-0"



① WALL PARALLEL TO TRUSS
1" = 1'-0"

REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. LOPES
NO. S-4550
EXP. 12/31/17
STRUCTURAL
STATE OF CALIFORNIA

DATE SIGNED: 06/01/17

No.	Date	Revision	By
1			
2	10/17/16	CYCLE 3 PLAN CHECK	RJS
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CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

FOUNDATION–FRAMING DETAILS

CITY OF Fremont
COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed —— Associate Land. Arch.~~ | Date | Recommended –– Project Manager | Date

Scale:	NONE
Designed By:	AJL
Drawn By:	PS
Date:	10/17/2014
Project No.:	8718 (PWC)
CAD File:	122030ET.dwg
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S3.1

SPECIFICATIONS

1.01 GENERAL

A. GENERAL SCOPE: FURNISH ALL LABOR AND MATERIALS, POWER TOOLS, TRANSPORTATION, SERVICES, EQUIPMENT, FACILITIES AND TEMPORARY CONSTRUCTION NECESSARY TO INSTALL ALL ELECTRICAL INDICATED ON THE DRAWINGS AND TO PROVIDE THE COMPLETE IN-PLACE AND OPERATING ELECTRICAL SYSTEM TO NEW DEVICES AND LIGHTS AND MAINTAIN SERVICES TO AREA TO REMAIN AS EXISTING.

B. CODES, REFERENCES AND STANDARDS: COMPLY WITH APPLICABLE SECTIONS OF FEDERAL, STATE AND LOCAL CODES, ORDINANCES, RULES AND REGULATIONS.

C. DRAWINGS: THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL EXTENT AND ARRANGEMENT OF THE WORK REQUIRED WHICH SHALL BE FOLLOWED AS CLOSELY AS THE ACTUAL CONSTRUCTION SITE CONDITIONS AND WORK OF THE OTHER TRADES WILL PERMIT.

D. PAY ALL FEES AND PERMITS.

E. COORDINATION OF THE WORK: CONTRACTOR SHALL BECOME FAMILIAR WITH THE CONDITIONS OF THE JOB SITE, AND WITH THE ARCHITECTURAL DRAWINGS, DRAWINGS OF OTHER DISCIPLINES AND SPECIFICATIONS AND PLAN THE INSTALLATION OF THE ELECTRICAL WORK TO CONFORM WITH THE EXISTING CONDITIONS AND THAT SHOWN AND SPECIFIED SO AS TO PROVIDE THE BEST POSSIBLE ASSEMBLY OF THE COMBINED WORK OF THE TRADES.

F. PROVIDE AS-BUILT REPRODUCIBLES SHOWING ALL OUTLETS NEW AND EXISTING WITH CIRCUIT NUMBERS AT EACH OUTLET AND MAINTENANCE MANUALS FOR ALL NEW EQUIPMENT AND LIGHTING FIXTURES.

G. WARRANTIES FOR LABOR AND MATERIALS – 1 YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK.

H. IN ADDITION TO MATERIAL AND EQUIPMENT SPECIFIED, ALSO PROVIDE ALL INCIDENTAL MATERIALS REQUIRED TO EFFECT COMPLETE INSTALLATION. SUCH INCIDENTAL MATERIALS INCLUDE SOLDERS, TAPES, CAULKINGS, MASTICS, GASKETS, ETC.

I. THE CONTRACTOR WILL BE HELD RESPONSIBLE TO HAVE EXAMINED THE SITE AND PREMISES AND SATISFIED HIMSELF AS TO EXISTING CONDITIONS UNDER WHICH HE WILL BE OBLIGATED TO OPERATE IN PERFORMING HIS PART OF THE WORK OR THAT WHICH WILL IN ANY MANNER AFFECT THE WORK UNDER THIS CONTRACT.

J. IDENTIFICATION: BRANCH CIRCUIT CONDUITS SHALL BE IDENTIFIED AT LOCATION ABOVE THE PANELBOARD AND AT EACH OUTLET AND LIGHTING FIXTURE.

K. PROVIDE WIRING TESTS UPON COMPLETION OF WORK AND MAKE ADJUSTMENTS AS NECESSARY FOR SATISFACTORY OPERATION OF SYSTEM.

2.01 EQUIPMENT AND MATERIAL SPECIFICATIONS

A. MATERIALS AND EQUIPMENT SHALL BE NEW, CURRENT MODELS OF MANUFACTURERS, BEAR COMPLETE IDENTIFICATION BY MANUFACTURER AND BEAR UL LABELS WHERE APPLICABLE.

B. CONDUITS:

1. ELECTRICAL METALLIC TUBING SHALL BE GALVANIZED OR SHERARDIZED. COUPLINGS AND CONNECTORS, INSULATED THROAT TYPE, SHALL BE GALVANIZED OR CADMIUM PLATED; TRIANGLE, NATIONAL ROME OR EQUAL.

2. RIGID GALVANIZED STEEL OR IMC SHALL BE GALVANIZED OR SHERARDIZED. COUPLING AND CONNECTORS SHALL BE GALVANIZED OR CADMIUM PLATED; TRIANGLE, NATIONAL, ROME OR EQUAL.

3. FLEXIBLE METAL CONDUIT: SHALL BE STEEL METAL STRIP INTERLOCK CONSTRUCTION, ZINC COATED, INCLUDING SUITABLE ACCESSORIES.

4. PVC CONDUIT: SCHEDULE 40 POLYVINYLCHLORIDE, HEAVY WALL, WITH FACTORY-MADE BENDS, COUPLINGS AND FITTINGS, AS MANUFACTURED BY CARLON OR CERTAINTEED. 90 DEGREE BENDS AND STUBOUTS MUST BE ENCASED ON CONCRETE OR RIGID GALVANIZED STEEL ELBOWS MUST BE USED. EXTERIOR UNDERGROUND UTILITY DUCTS P & C; TYPE DB; TELEPHONE AND COMMUNICATIONS, TYPE C.

5. CONDUIT FITTINGS: PROVIDE WATERTIGHT COMPRESSION TYPE CONDUIT FITTINGS FOR ELECTRICAL METALLIC TUBING INSTALLED IN WET LOCATION. MALLEABLE IRON SETSCREW FITTINGS MAY BE USED IN DRY LOCATIONS. FITTINGS FOR RIGID GALVANIZED STEEL OR IMC SHALL BE THREADED.

C. CONDUCTORS: PROVIDE SOFT DRAWN, ANNEALED COPPER WIRE 98% CONDUCTIVITY BEARING THE UL LABEL. INSULATION: PROVIDE THE FOLLOWING (600 VOLT): TYPE THW, XHHW INSULATED WIRE FOR CONDUCTORS #2 OR LARGER; TYPE THW OR THHN/THWN FOR ALL WIRE SMALLER THAN #2. MANUFACTURERS: GENERAL ELECTRIC, ANACONDA, ROME, GENERAL CABLE, AND SOUTHWIRE.

D. WIRE CONNECTORS:

1. #6 AWG AND LARGER: THOMAS AND BETTS "LOCK-TITE:, BURNDEY, "QUICKLUG" OR OZ TYPE PT/PTC.

2. #8 AWG AND SMALLER: SCOTCH SPRING STEEL WITH INSULATED CAP, THOMAS AND BETTS, "STA-KON PIGGY" WITH INSULATOR OR IDEAL, WIRE NUT OR WING NUT TYPE.

E. OUTLET BOXES: SHALL BE ONE PIECE GALVANIZED STEEL 4 INCH SQUARE BY 1-1/2" DEEP OR LARGER WITH PLASTER RING COVERS WITH FRONT EDGES FLUSH WITH FINISHED SURFACE OF CONSTRUCTION OR CABINET WORK.

1. JUNCTION AND PULLBOXES: PROVIDE WITH SCREW COVERS ALWAYS ACCESSIBLE.

F. WIRING DEVICES:

1. SINGLE POLE SWITCH: INTERIOR, 20A, 120/277V RATED, HUBBELL 1221-I, P&S 20AC1-I.

2. THREE WAY SWITCH: INTERIOR, 20A, 120/277V RATED, HUBBELL 1223-1, P&S 20AC3-I.

3. DUPLEX RECEPTACLES: 20A, 3 WIRE, GROUNDED, NEMA 5-20R, HUBBELL 5362-I, P&S 5362-I.

4. WEATHERPROOF OUTLET: DUPLEX RECEPTACLE WITH FS CAST BOX AND FLIP COVERPLATE, HUBBELL 5205-WO, P&S WPD-8.

5. PLATES: ALL DEVICE PLATES SHALL BE PLASTIC, WHITE UNLESS OTHERWISE NOTED. PLATES SHALL MATCH COLOR OF DEVICE.

6. OTHER MANUFACTURERS: GENERAL ELECTRIC, OR LEVITON.

G. PANELBOARD: PROVIDE BUILDING BRANCH PANELS WITH QUICK-MAKE, QUICK-BREAK ARC QUENCHING TYPE BOLT-ON BREAKERS AS INDICATED ON DRAWINGS. PROVIDE PANELS WITH FLUSH DOOR LOCKS AND 2 KEYS. PROVIDE EACH PANEL WITH TYPEWRITTEN PANEL DIRECTORY INSTALLED ON DOOR, IDENTIFYING THE USE OF THE BRANCH CIRCUIT. TIE BARS TO FORM TWO-POLE BREAKERS WILL NOT BE ACCEPTED. PANELBOARD AS MANUFACTURED BY ITE-SIEMENS, SQUARE D, GENERAL ELECTRIC OR CUTLER-HAMMER.

H. DISCONNECT SWITCHES: PROVIDE VISIBLE BLADE TYPE, HEAVY-DUTY SAFETY SWITCHES; ELECTRICAL EQUIPMENT AS MANUFACTURED BY ITE-SIEMENS, SQUARE D, GENERAL ELECTRIC OR WESTINGHOUSE.

I. GROUNDING: PROVIDE GROUNDING SYSTEM PER NEC. PROVIDE GROUND RODS WHERE REQUIRED OR WHERE SO INDICATED, 1" DIAMETER BY 10 FEET LENGTH BY COPPERWELD.

J. LIGHTING FIXTURES: PROVIDE LIGHTING FIXTURES, COMPLETE WITH LAMPS AND ACCESSORIES, AS INDICATED ON THE DRAWINGS, AND SPECIFIED HEREIN. PROVIDE EACH FIXTURE WITH AN UNDERWRITER'S LABORATORIES APPROVAL TAG.

1. BALLASTS: CBM APPROVED, UL LABELED, HIGH POWER FACTOR QUIETEST SOUND RATING AVAILABLE FOR THE PARTICULAR BALLAST TYPE AND VOLTAGE WITH BUILT-IN AUTOMATIC RESETTING THERMAL PROTECTOR EQUAL TO ADVANCE "ADVANGUARD" CLASS P, ADVANCE MARK III OR UNIVERSAL SLH, OR GENERAL ELECTRIC MAXI MISER II. EXTERIOR FIXTURES SHALL BE ZERO DEGREE. ALL FLUORESCENT BALLASTS AND FIXTURE MANUFACTURERS SHALL BE CALIFORNIA ENERGY COMMISSION APPROVED AND CERTIFIED (CAC T-24, 2-5314(B).

2. LAMPS: BY GENERAL ELECTRIC, SYLVANIA, OR PHILLIPS.

L. MOTOR CONTROLLERS: MANUAL CONTROLLER: HORSEPOWER RATED SWITCH WITH BUILT-IN OVERLOAD PROTECTION, SQUARE D FG-2; P&S 20AC2-HP.

1. MAGNETIC MOTOR STARTERS: 3 PHASE STARTERS SHALL HAVE THREE HEATER COILS AND OVERLOAD RELAYS. PROVIDE HAND-OFF-AUTO SWITCH, GREEN RUNNING PILOT LIGHTS AND AUXILIARY CONTACTS.

M. LIGHTING CONTROL EQUIPMENT: PROVIDE PROGRAMMABLE ELECTRONIC TIME SWITCH, CIRCUIT CONTROLLER, 365 DAY CAPACITY, WITH ADJUSTABLE ON/OFF TIMES FOR EACH CIRCUIT CONTROLLED, 4 HOUR BATTERY BACKUP; PARAGON EC SERIES.

3.01 EXECUTION

A. GENERAL: EXACT LOCATIONS OF DISTANCES AND DEVICES PLANS SHALL BE TAKEN FROM FIELD MEASUREMENTS.

1. PROVIDE ALL WIRING CONNECTIONS FOR EQUIPMENT FURNISHED UNDER OTHER SECTIONS OF THE SPECIFICATIONS, INCLUDING NECESSARY WIRING FOR THE COOLING AND HEATING EQUIPMENT. PROVIDE CONNECTIONS TO MOTORS WITH WATERTIGHT FLEXIBLE CONDUIT CONTAINING A CODE SIZE BOND WIRE. OBTAIN REQUIRED INFORMATION FROM THE OTHER TRADES AND OWNER AND ROUGH-IN TO MEET REQUIREMENTS OF SAID EQUIPMENT.

B. CONDUIT:

1. ELECTRICAL METALLIC TUBING: FOR ALL WIRE EXCEPT IN OR UNDER CONCRETE, EARTH, FILL, IN MASONRY WALLS, IN CONCRETE WALLS, OR SIZES EXCEEDING 2".

2. PVC: IN OR UNDER CONCRETE 90 DEGREE BENDS STUB-UPS MUST BE ENCASED IN CONCRETE OR RIGID STEEL ELBOWS SHALL BE USED.

3. RIGID STEEL OR IMC: ALL EXPOSED CONDUIT BELOW 10 FEET AND ALL SIZES EXCEEDING 2".

C. SIZES: PROVIDE NO WIRE SMALLER THAN #12 FOR LIGHTING, RECEPTACLES OR OTHER CIRCUITS. PROVIDE STRANDED WIRE FOR WIRE LARGER THAN #10.

D. GROUNDING CONDUCTORS: NEC SIZED, PROVIDE IN ALL FLEXIBLE CONDUIT.

E. WIRING DEVICES: SHALL BE INSTALLED LEVEL AND PLUMB.

F. PANELBOARDS, CABINETS, EQUIPMENT, ENCLOSURES, AND THE COMPLETE CONDUIT SYSTEM SHALL BE BONDED SECURELY IN ACCORDANCE WITH PERTINENT SECTIONS OF ARTICLE 250 OF NEC. BOND ELECTRICALLY OPERATED EQUIPMENT HOUSINGS AND BOND TO THE GROUNDED CONDUIT SYSTEMS. MAIN GROUNDING ELECTRODE SHALL CONFORM TO NEC 250-81(C), UFER GROUND SYSTEM.

G.

1. LIGHTING FIXTURES:

FLUORESCENT LIGHT FIXTURES SHALL BE ADEQUATELY SUPPORTED, LEVEL AND TRUE.

SYMBOLS

WALL MOUNTED FLUORESCENT FIXTURE AND BOX.

CEILING OR PENDANT MOUNTED FLUORESCENT STRIPLIGHT AND BOX.

CEILING MOUNTED LIGHT FIXTURE AND BOX.

WALL MOUNTED LIGHT FIXTURE AND BOX. SEE ARCH ELEVATIONS FOR MOUNTING HEIGHT.

RECESSED MOUNTED LIGHT FIXTURE AND BOX.

ILLUMINATED EXIT SIGN AND JUNCTION BOX, CEILING, WALL MOUNTED, SHADED PORTION INDICATES FACE(S) ON SIGN, ARROW INDICATES DIRECTIONAL ARROWS IN FACE.

EXTERIOR WALL MOUNTED FIXTURE AND BOX. + AFF (UON).

POLE MOUNTED LUMINAIRE(S), WITH SINGLE, TWIN HEADS. SEE POLE DETAIL

EMERGENCY BATTERY PACK WITH FIXTURES AND BOX, +7'-6" AFF (UON)

$ SINGLE POLE, SINGLE THROW SWITCH AND BOX, +44" AFF.

PC ADJUSTABLE PHOTOCELL AND MOUNTING ASSEMBLY, MOUNT ON ROOF (UON), ON RIGID CONDUIT THRU FLASHED ROOF JACK, AIM TOWARDS NORTH.

MOTION DETECTOR AND BOX, CEILING, WALL MOUNTED, +44" AFF (UON). LOWER CASE LETTER INDICATES CIRCUIT OR FIXTURE CONTROLLED BY DETECTOR. AIM ADJUSTABLE SENSORS PER DIRECTIONAL ARROWS WHERE INDICATED.

TS WALL MOUNTED TIMESWITCH, +60 AFF.

DUPLEX RECEPTACLE 20A, 125V, 3W, NEMA 5-20R, +16" AFF (UON). (WP= WEATHERPROOF, D= DEDICATED, S= WITH SURGE SUPPRESSOR), M= MOUNT IN MILLWORK AFTER CABINET IS SET).

DUPLEX RECEPTACLE 20A, 125V, NEMA 5-20R, WITH ISOLATED GROUND, +16" AFF (UON).

DUPLEX RECEPTACLE 20A, 125V, NEMA5-20R, WITH GROUNDFAULT CIRCUIT INTERRUPTER, +16" AFF (UON) (WP= WEATHERPROOF). COVER – TAYMAC #10510 OR ACCEPTED EQUIVALENT.

CEILING MOUNTED DUPLEX RECEPTACLE 20A, 125V, 3W. MOUNT ABOVE SHOW WINDOW. RECEPTACLE AND PLATE COVER SHALL MATCH CEILING COLOR (UON).

WALL MOUNTED POWER OR SIGNAL DEVICES WITH AN ANGLED LINE THRU THEM INDICATES DEVICE TO BE MOUNTED ABOVE THE COUNTER SPLASH. SEE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT.

FLUSH FLOOR OUTLET WITH BRASS COVERPLATE AND PULL RING, WITH DUPLEX RECEPTACLE, 20A, 125V, 3W, NEMA 5-20R. HEAVY DUTY COVER (+/-4000 LBS.)

CONDUIT STUB UP WITH FLUSH COUPLING. TOP OF COUPLING SHALL BE FLUSH WITH FLOOR.

CONDUIT STUB UP WITH FLUSH COUPLING. TOP OF COUPLING SHALL BE FLUSH WITH FLOOR WITH FLEX AND WIRE TO CASE WIREWAY OR CASE JUNCTION BOX.

JUNCTION BOX MOUNTED FLUSH IN FLOOR.

J JUNCTION OR OUTLET BOX – MOUNT ABOVE CEILING WITH BLANK COVER. (F= FLUSH IN FINISHED CEILING)

J WALL MOUNTED JUNCTION OR OUTLET BOX WITH BLANK COVER, FLUSH, HEIGHT AS INDICATED.

J FLOOR MOUNTED JUNCTION BOX WITH BLANK COVER (FLUSH OR SURFACE AS INDICATED). IF NO INDICATION INSTALL FLUSH.

S FLUSH MOUNTED JUNCTION BOX AND COVER PLATE FOR SIGN (WP=WEATHERPROOF).

PRECAST ELECTRICAL SPLICE PULLBOX-13"X24"X16" DEEP MINIMUM (SIZE PER NEC), WITH HEAVY DUTY TRAFFIC COVER WHERE EXPOSED TO VEHICLES. LOCATE SO AS NOT TO AFFECT PLANTING.

(E) EXISTING TO REMAIN

(ER) EXISTING REMOVE

(ERP) EXISTING REMOVE AND REPLACE AS INDICATED

(ERR) EXISTING REMOVE AND RELOCATE AS INDICATED

(R) RELOCATE AS INDICATED.

COMBINATION STARTER AND FUSIBLE DISCONNECT SWITCH. M = MOTOR CIRCUIT PROTECTOR

$T HORSEPOWER RATED TOGGLE SWITCH WITH THERMAL OVERLOADS.

M MOTOR OUTLET AND FLEX CONNECTION TO MOTOR.

IC IRRIGATION CONTROLLER, PROVIDE DUPLEX RECEPTACLE ON 120V DEDICATED CIRCUIT AND 2"C. TO NEAREST PLANTER (UON).

PANELBOARD, 277/480V, 3 PHASE, 4W U.O.N. FLUSH, SURFACE.

PANELBOARD, 120/208V, 3 PHASE, 4W U.O.N. FLUSH, SURFACE.

MAIN SWITCHBOARD; DISTRIBUTION SWITCHBOARD AS NOTED.

TERMINAL CABINET AS NOTED ON THE PLANS, REFERENCE ABBREVIATIONS, FLUSH, WALL.

APPROXIMATE LOCATION OF A/C UNIT (VERIFY LOCATION). PROVIDE WEATHERPROOF FUSED DISCONNECT AT UNIT AND FEEDER TO PANEL AS INDICATED. SEE MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION (SIZE 1.25 X FLA ON NAMEPLATE, MINIMUM). SIZE CONDUIT PER FEEDERS, PROVIDE 1/2"C. THRU FLASHED ROOF JACK FOR CONTROL WIRING. SEE MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL REQUIREMENTS.

BRANCH CIRCUIT WIRING IN CONDUIT CONCEALED IN CEILING SPACE OR WALL.

BRANCH CIRCUIT WIRING IN CONDUIT CONCEALED UNDER FLOOR OR UNDERGROUND.

BRANCH CIRCUIT HOMERUN TO PANEL AS INDICATED.

CONDUIT, 1/2"- 2 # 12 MINIMUM. HASHMARKS INDICATE NUMBER OF WIRES AND SIZE OTHER THAN # 12. "G" ON HASHMARKS INDICATES INSULATED/ISOLATED GROUND WIRE.

FLASHED ROOF JACK

FLEXIBLE CONDUIT

CONDUIT UP

CONDUIT DOWN

CONDUIT STUBBED OUT IN ACCESSIBLE LOCATION, CAP AND MARK LOCATION.

HOME RUN POINT OF BRANCH CIRCUIT GROUPING. HOMERUN FOR CIRCUITS SHOWN IS TO ORIGINATE FROM AN OUTLET, RECEPTACLE, LIGHTING OUTLET, ETC. IN THE AREA (SEE BRANCH WIRING GENERAL NOTE).

--P-- PRIMARY RACEWAY DOWN 42" MIN. PER LOCAL UTILITY CO. REQUIREMENTS.

--S-- SECONDARY RACEWAY DOWN 36" MINIMUM PER LOCAL UTILITY CO. REQUIREMENTS.

--T-- TELEPHONE SERVICE RACEWAY, 2"C. – (UON) DOWN 24" MINIMUM PER LOCAL UTILITY CO. REQUIREMENTS.

--TV-- CABLE TV SERVICE RACEWAY, 2"C. (UON) DOWN 24" MINIMUM PER LOCAL UTILITY CO. REQUIREMENTS.

M METER SOCKET PER POWER COMPANY REQUIREMENTS

M METER SOCKET AND PROVISIONS FOR CT'S PER POWER COMPANY REQUIREMENTS

LANDING LUGS OR STUDS PER POWER COMPANY REQUIREMENTS.

CIRCUIT BREAKER

DISCONNECT SWITCH

FUSED DISCONNECT SWITCH

GROUND

STARTER

A LIGHTING FIXTURE TAG. SEE FIXTURE SCHEDULE.

1 GENERAL SHEET NOTE, SEE SHEET E- .

AC 1 MECHANICAL UNIT TAG. SEE MECHANICAL EQUIPMENT SCHEDULE.

2 E-2 DETAIL TAG. REFER TO DETAIL 2 ON SHEET NUMBER E-2.

1 EQUIPMENT TAG – SEE EQUIPMENT SCHEDULE.

WALL MOUNTED TELEPHONE OUTLET +44" AFF

WALL MOUNTED CABLE TV OUTLET +44" AFF

PIV POST INDICATOR VALVE – PROVIDE 3/4"C. FROM VALVE TO BUILDING ALARM PANEL.

SHEET INDEX

E1.0	SYMBOLS AND SPECIFICATIONS
E2.0	RESTROOM ELECTRICAL PLAN
E3.0	ONE LINE DIAGRAM AND SCHEDULES
E4.0	TITLE 24 COMPLIANCE FORMS

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REGISTERED PROFESSIONAL ENGINEER GERALD GONZALES No. E6961 Exp. 06-30-17 ELECTRICAL STATE OF CALIFORNIA

No.	Date	Revision	By
A	10-01-15		
1	11-18-15	90% -100% REVIEW	
2	10/31/17	RE-BID	

CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

SYMBOLS AND SPECIFICATIONS

CITY OF Fremont
COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed -- Associate Land. Arch.~~ | Date | Recommended -- Project Manager | Date

Scale: AS NOTED
Designed By:
Drawn By: TML
Date: 11-18-15
Project No.: 8718 (PWC)
CAD File: 12129E1.0.dwg
SHEET 25 OF 37

E1.0

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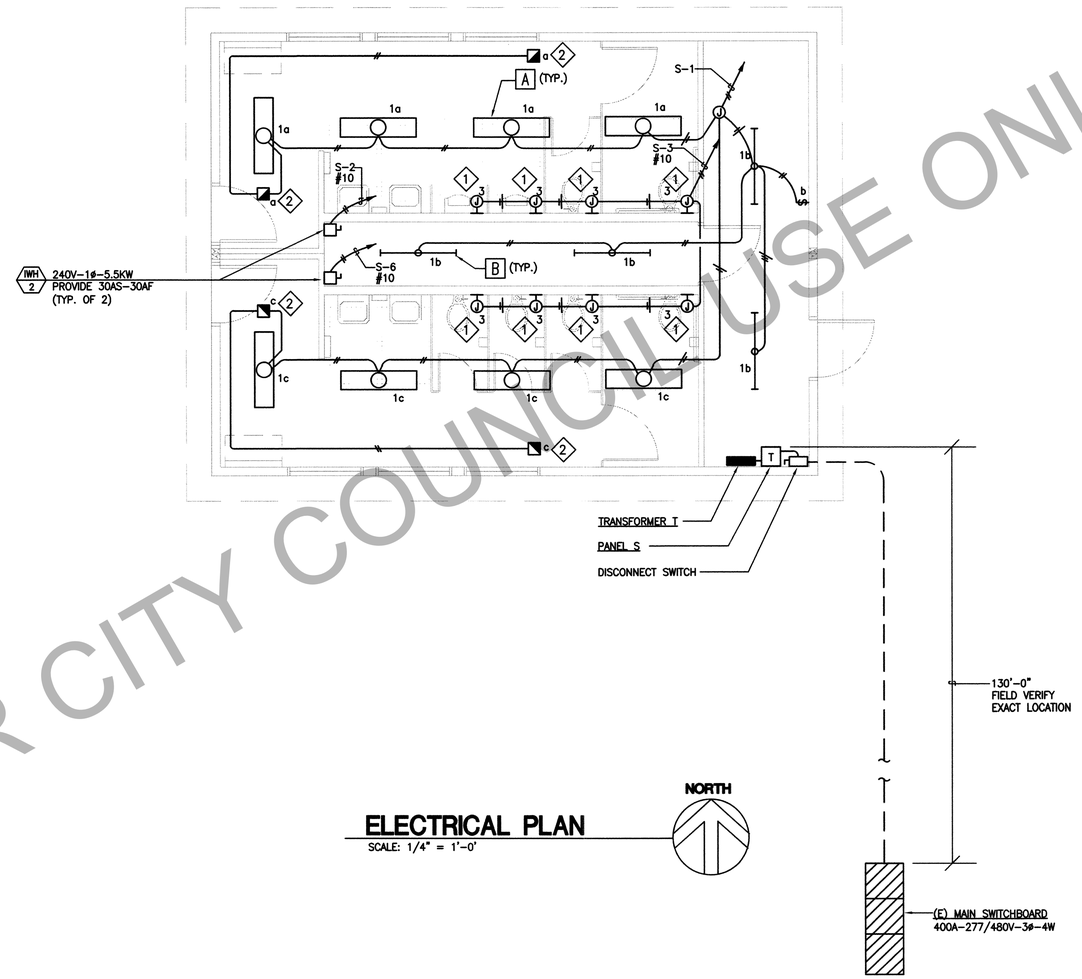
FILE: N:\Jobs12\12129 City of Fremont Fabbri and Warm Springs\Fabbri\12129E1.0.dwg Jan 25, 2016 - 10:01am lubak
XREF: 12129TBFabbri.dwg

KEY NOTES

1. AQUASENSOR 120V-1ø-1.0A
2. PROVIDE DUAL TECHNOLOGY CEILINGMOUNTED OCCUPANCY SENSOR WATTS TOPPER, LC&D.



ELECTRICAL PLAN

SCALE: 1/4" = 1'-0'

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4	10/31/17	RE-BID	

CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

ELECTRICAL PLAN

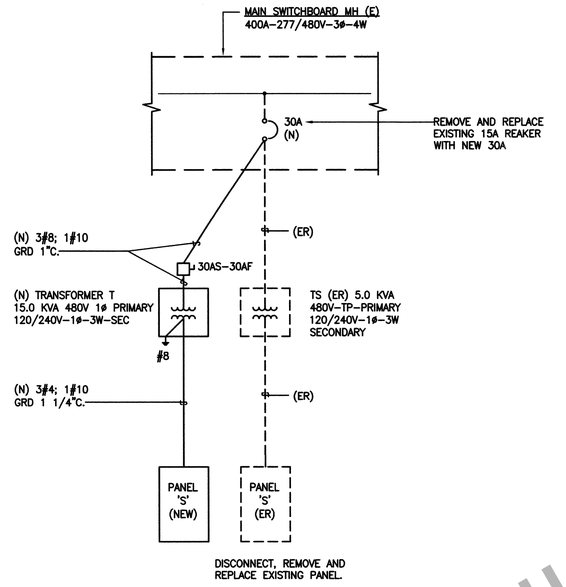
CITY OF Fremont
COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed -- Associate Land. Arch.~~ | Date | Recommended -- Project Manager | Date

Scale: 1/4" = 1'-0"
Designed By:
Drawn By: TML
Date: 11-18-15
Project No.: 8718 (PWC)
CAD File: 12129E2.0.dwg
SHEET 26 OF 37

E2.0

FILE: N:\Jobs12\12129 City of Fremont Fabbri and Warm Springs\Fabbri\12129E2.0.dwg Jan 25, 2016 - 10:00am lubak
XREF: 12203-BASE-FP.DWG 12129TBFabbri.dwg



PARTIAL ONE LINE DIAGRAM

N.T.S.

NEW

PANEL S — 120/240 VOLTS 1 PHASE 3 WIRE — TYPE BOLT-ON BUS 100 — MAIN ☐ LUGS ONLY ■ CB 60 — MOUNTING ■ SURFACE ☐ FLUSH

CKT. NO.	LOAD DESCRIPTION & LOCATION	LTG	REC	BRKR P	BRKR T	LCL	PHASE KVA LOAD øA	PHASE KVA LOAD øB	LCL	BRKR P	BRKR T	LTG	REC	LOAD DESCRIPTION & LOCATION	CKT. NO.
1	LIGHTING	·	1	20	·		0.5 / 2.7		·	2	30	·	·	IWH-2	2
3	SENSOR	·	1	20	·	·		0.4 / 2.7	·			·	·		4
5	SPARE	·	1	20	·	·	· / 2.7		·	2	30	·	·	IWH-2	6
7	SPARE	·	1	20	·	·		· / 2.7	·			·	·		8
9	SPARE	·	1	20	·	·	· / ·		·	·	·	·	·	SPARE	10
11	SPARE	·	1	20	·	·		· / ·	·	·	·	·	·	SPARE	12

MIN. CB INTER. CAP. 10,000 AMPS — SUB TOTALS 5.9 5.8 — TOTAL CONNECTED LOADS 11.7 KVA+(· (LCL)KVAx25%)= 11.7 KVA= 48.7 AMPS

FIXTURE SCHEDULE

TYPE	DESCRIPTION	MFG. CATALOG #	LAMPS	REMARKS
A	1'x4' SURFACE FLUORESCENT FIXTURE	DAYBRITE # SWN-232-120-1/2	2F32T8SP41	
B	4'-0" FLUORESCENT STRIP.	DAYBRITE # T-132-120-1/1	1F32T8SP41	

FOR CITY COUNCIL USE ONLY

REGISTERED PROFESSIONAL ENGINEER — GERALD GRAVELES — No. 16961 — Exp. 06-30-17 — ELECTRICAL — STATE OF CALIFORNIA

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△			
△			

CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

ONE LINE DIAGRAM AND SCHEDULES

CITY OF Fremont — COMMUNITY SERVICES DEPARTMENT — LANDSCAPE ARCHITECTURE

~~Reviewed —— Associate Land. Arch.~~ | Date | Recommended -- Project Manager | Date

Scale: AS SHOWN
Designed By:
Drawn By: TML
Date: 11-18-15
Project No.: 8718 (PWC)
CAD File: 12129E3.0.dwg
SHEET 27 OF 37

E3.0

FILE: N:\Jobs12\12129 City of Fremont Fabbri and Warm Springs\Fabbri\12129E3.0.dwg Jan 25, 2016 - 9:59am lubak
XREF: 12129TBFabbri.dwg

CERTIFICATE OF COMPLIANCE (Part 1 of 4) LTG-1C

Project Name			Date
Fabbri Field Restroom Replacement			*10/29/2013*
Project Address: *Fremont*	Climate Zone: *4*	Total Cond. Floor Area: *0*	Unconditioned Floor Area: *785*

GENERAL INFORMATION

Building Type:	☐ Nonresidential	☐ High-Rise Residential	☐ Hotel/Motel Guest Room
☐ School	☐ Relocatable Public School	☐ Conditioned Spaces	☑ Unconditioned Spaces
Phase of Construction:	☑ New Construction	☐ Addition	☐ Alteration
Method of Compliance:	☐ Complete Building	☐ Area Category	☐ Tailored

Documentation Author's Declaration Statement

I certify that this Certificate of Compliance documentation is accurate and complete.

Name: Gerald Gonzales	Signature:
Company: *Belden Consulting Engineers*	Date: *10/29/2013*
Address: 6670 Amador Plaza Road, Suite 200	CEA # / CEPE #: E16961
City/State/Zip: , Dublin, CA	Phone: (925)361-1201

The Principal Lighting Designer's Declaration Statement

- I am eligible under Division 3 of the California Business and Professional Code to accept responsibility for the lighting design.
- This Certificate of Compliance identifies the lighting features and performance specifications required for compliance with Title 24, Pages 1 and 6 of the California Code of Regulations.
- The design features represented on this Certificate of Compliance are consistent with the information provided to document this design on the other applicable compliance forms, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Name: *Gerald Gonzales*	Signature:
Company: *Belden Consulting Engineers*	Phone: *925-829-0772*
Address: *6670 Amadore Plaza Rd #200*	License #: E16961
City/State/Zip: *Dublin, CA 94568-2991*	Date:

Lighting Mandatory Measures
Indicate location on building plans of Mandatory Measures Note Block: E4.0

LIGHTING COMPLIANCE FORMS & WORKSHEETS (check box if worksheets is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms; please refer to the Nonresidential Manual published by the California Energy Commission.

☑	LTG-1C Pages 1 through 4	Certificate of Compliance. All Pages required on plans for all submittals.
☑	LTG-2C	Lighting Controls Credit Worksheet
☑	LTG-3C	Indoor Lighting Power Allowance
☐	LTG-4C Pages 1 through 4	Tailored Method Worksheet
☐	LTG-5C Pages 1 and 2	Line Voltage Track Lighting Worksheet

EnergyPro 5.1 by EnergySoft User Number: 4903 RunCode: 2013-10-29T17:28:27 ID: 12-129 Page 3 of 9

CERTIFICATE OF COMPLIANCE (Part 2 of 4) LTG-1C

Project Name: *Fabbri Field Restroom Replacement* Date: *10/29/2013*

INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Installation Certificate, LTG-1- INST (Retain a copy and verify form is completed and signed.) **Field Inspector** ☐

Certificate of Acceptance, LTG-2A and LTG-3A (Retain a copy and verify form is completed and signed.) **Field Inspector** ☐

A separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces Installed Lighting Power listed on this Lighting Schedule is only for:

☐ **CONDITIONED SPACE** ☑ **UNCONDITIONED SPACE**

☑ The actual indoor lighting power listed below includes all installed permanent and portable lighting systems in accordance with §146(a).

☑ Only for offices: Up to the first 0.2 watts per square foot of portable lighting shall not be required to be included in the calculation of actual indoor lighting power density in accordance with the Exception to §146(a). All portable lighting in excess of 0.2 watts per square foot is totaled below.

A: Name or Item Tag	B: Complete Luminaire Description[1] (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballasts)	C	D: Watts per Luminaire[1]	E: How wattage was determined – CEC Default From NA8	E: According To §130 (d or e)	F: Number of Luminaires	G: Installed Watts (D x F)	H: Field Inspector[2] Pass	Fail
A	(2) 4 ft Fluorescent T8 Energy Savings Elec		54.0	☑	☐	8	432	☐	☐
B	(1) 4 ft Fluorescent T8 Energy Savings Elec		29.0	☑	☐	4	116	☐	☐

Installed Watts Page Total: 548

Building total number of pages: | Installed Watts Building Total (Sum of all pages) Enter into LTG-1C Page 4 of 4: 548

1. Wattage shall be determined according to Section 130 (d and e). Wattage shall be rating of light fixture, not rating of bulb.
2. If Fail then describe on Page 2 of the Inspection Checklist Form and take appropriate action to correct. Verify building plans if necessary.

EnergyPro 5.1 by EnergySoft User Number: 4903 RunCode: 2013-10-29T17:28:27 ID: 12-129 Page 4 of 9

CERTIFICATE OF COMPLIANCE (Part 3 of 4) LTG-1C

Project Name: *Fabbri Field Restroom Replacement* Date: *10/29/2013*

INDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Fill in controls for all spaces: a) area controls, b) multi-level controls, c) manual daylighting controls for daylit areas > 250 ft², automatic daylighting controls for daylit areas > 2,500 ft², d) shut-off controls, e) display lighting controls, f) tailored lighting controls – general lighting controlled separately from display, ornamental and display case lighting and g) demand responsive automatic controls for retail stores > 50,000 ft², in accordance with Section 131.

MANDATORY LIGHTING CONTROLS – FIELD INSPECTION ENERGY CHECKLIST

Type/ Description	Number of Units	Location in Building	Special Features	Field Inspector Pass	Fail
			☐	☐	☐

SPECIAL FEATURES INSPECTION CHECKLIST (See Page 2 of 4 of LTG-1C)

The local enforcement agency should pay special attention to the items specified in this checklist. These items require special written justification and documentation, and special verification. The local enforcement agency determines the adequacy of the justification, and may reject a building or design that otherwise complies based on the adequacy of the special justification and documentation submitted.

Field Inspector's Notes or Discrepancies:

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CERTIFICATE OF COMPLIANCE (Part 4 of 4) LTG-1C

Project Name: *Fabbri Field Restroom Replacement* Date: *10/29/2013*

CONDITIONED AND UNCONDITIONED SPACE LIGHTING MUST NOT BE COMBINED FOR COMPLIANCE

Indoor Lighting Power for Conditioned Spaces		Watts	Indoor Lighting Power for Unconditioned Spaces		Watts
Installed Lighting (from Conditioned LTG-1C, Page 2)		0	**Installed** Lighting (from Unconditioned LTG-1C, Page 2)		548
Lighting Control Credit Conditioned Spaces (from LTG-2C)	-	0	Lighting Control Credit Unconditioned Spaces (from LTG-2C)	-	82
Adjusted **Installed** Lighting Power	=	0	Adjusted **Installed** Lighting Power	=	466
Complies if **Installed** ≤ **Allowed**		↕	Complies if **Installed** ≤ **Allowed**		↕
Allowed Lighting Power Conditioned Spaces (from LTG-3C or PERF-1)		0	**Allowed** Lighting Power Unconditioned Spaces (from LTG-3C)		471

Required Acceptance Tests

Designer:
This form is to be used by the designer and attached to the plans. Listed below is the acceptance test for the Lighting system, **LTG-2A and LTG-3A**. The designer is required to check the acceptance tests and list all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. If all the lighting system or control of a certain type requires a test, list the different lighting and the number of systems. The NA7 Section in the Appendix of the Nonresidential Reference Appendices Manual describes the test. Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately. **Forms can be grouped by type of Luminaire controlled.**

Enforcement Agency:
Systems Acceptance. Before Occupancy Permit is granted for a newly constructed building or space or when ever new lighting system with controls is installed in the building or space shall be certified as meeting the Acceptance Requirements.
The **LTG-2A and LTG-3A** forms are not considered complete forms and are not to be accepted by the enforcement agency unless the boxes are checked and/or filled and signed. In addition, a Certificate of Acceptance forms shall be submitted to the enforcement agency that certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of §10-103(b) of Title 24 Part 6. The field inspector must receive the properly filled out and signed forms before the building can receive final occupancy. A copy of the **LTG-2A and LTG-3A** for each different lighting luminaire control(s) must be provided to the owner of the building for their records.

Equipment Requiring Testing	Luminaires Controlled: Description	Number of Luminaires controlled	Location	LTG-2A and LTG-3A: Controls and Sensors and Automatic Daylighting Controls Acceptance
Occ Sensor - Storage	(2) 4 ft Fluorescent T8 Energy Savings	8	Restroom	☑
Occ Sensor - Storage	(1) 4 ft Fluorescent T8 Energy Savings	4	Restroom	☑

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LIGHTING CONTROLS CREDIT WORKSHEET (Part 1 of 2) LTG-2C

Project Name: *Fabbri Field Restroom Replacement* Date: *10/29/2013*

POWER ADJUSTMENT FACTORS (PAF) FOR NON-DAYLIGHT CONTROLS

A Separate PAF Worksheet Must Be Filled Out for Conditioned and Unconditioned Spaces. Control Credits listed on this schedule are only for:

☐ **CONDITIONED SPACES** ☑ **UNCONDITIONED SPACES**

A: Room # Zone ID Areas	B: Lighting Control Description[1]	C: Plan Reference	D: Room Area (ft²)	E: Watts of Control Lighting	F: Power Adjustments Factor[2]	G: Control Credit Watts (E x F)
Restroom	Occ Sensor - Storage	A	785	432	0.15	65
Restroom	Occ Sensor - Storage	B	785	116	0.15	17
					PAGE TOTAL	82

Note: Conditioned and Unconditioned Space shall be separately totaled

Building total of non-daylight control credit watts for all pages of LTG-2C Page 1 of 2	
Enter building total of all daylight controls credit watts from LTG-2C Page 2 of 2	0
BUILDING TOTAL OF ALL CONTROL CREDIT WATTS (FOR BOTH NON-DAYLIGHT AND DAYLIGHT CONTROL CREDITS) Enter in LTG-1C; Page 4: Lighting Control Credit as appropriate for CONDITIONED or UNCONDITIONED Spaces	82

1. Description shall be consistent with Type of Control defined in Table 146-C
2. Power Adjustment Factor taken from Table 146-C

EnergyPro 5.1 by EnergySoft User Number: 4903 RunCode: 2013-10-29T17:28:27 ID: 12-129 Page 7 of 9

INDOOR LIGHTING POWER ALLOWANCE LTG-3C

Project Name: *Fabbri Field Restroom Replacement* Date: *10/29/2013*

ALLOWED LIGHTING POWER (Chose One Method)

A Separate LTG-3C must be filled out for Conditioned and Unconditioned Spaces. Indoor Lighting Power Allowances listed on this page are only for:
☐ CONDITIONED SPACES ☑ UNCONDITIONED SPACES

COMPLETE BUILDING METHOD

BUILDING CATEGORY (From §146 Table 146-E)	WATTS PER (ft²)	x	COMPLETE BLDG. AREA	=	ALLOWED WATTS
TOTALS			AREA		WATTS

AREA CATEGORY METHOD

BUILDING CATEGORY (From §146 Table 146-F)	WATTS PER (ft²)	x	Area ft²	=	ALLOWED WATTS
Bathroom	0.60		785		471
TOTALS			785 (AREA)		471 (WATTS)

TAILORED METHOD

Total Allowed Watts using the Tailored Method taken from LTG-4C (Page 1 of 4) Row 3: 0

The indoor lighting power allowance using the Tailored Method of compliance shall be determined using the LTG-4C set of forms. A separate set of LTG-4C forms shall be filled out for CONDITIONED and UNCONDITIONED spaces

EnergyPro 5.1 by EnergySoft User Number: 4903 RunCode: 2013-10-29T17:28:27 ID: 12-129 Page 8 of 9

LIGHTING MANDATORY MEASURES: NONRESIDENTIAL LTG-MM

Project Name: *Fabbri Field Restroom Replacement* Date: *10/29/2013*

Indoor Lighting Measures:

§131(d): **Shut-off Controls**

1. For every floor, all interior lighting systems shall be equipped with a separate automatic control to shut off the lighting. This automatic control shall meet the requirements of Section 119 and may be an occupancy sensor, automatic time switch, or other device capable of automatically shutting off the lighting.
2. Override for Building Lighting Shut-off: The automatic building shut-off system is provided with a manual, accessible override switch in sight of the lights. The area of override is not to exceed 5,000 square feet.

§119(h): Automatic Control Devices Certified: All automatic control devices specified are certified, all alternate equipment shall be certified and installed as directed by the manufacturer.

§111: Fluorescent Ballast and Luminaires Certified: All fluorescent fixtures specified for the project are certified and listed in the Directory. All installed fixtures shall be certified.

§131(a): Individual Room/Area Controls: Each room and area in this building is equipped with a separate switch or occupancy sensor device for each area with floor-to-ceiling walls.

§131(b): Uniform Reduction for Individual Rooms: All rooms and areas greater than 100 square feet and more than 0.8 watts per square foot of lighting load shall be controlled with bi-level switching for uniform reduction of lighting within the room.

§131(c): Daylight Area Control: All rooms with windows and skylights that are greater than 250 square feet and that allow for the effective use of daylight in the area shall have 50% of the lamps in each daylit area controlled by a separate switch; or the effective use of daylight cannot be accomplished because the windows are continuously shaded by a building on the adjacent lot. Diagram of shading during different times of the year is included on plans.

§131(c): Display Lighting. Display lighting shall be separately switched on circuits that are 20 amps or less.6.

Outdoor Lighting Measures:

§130(c)1: Mandatory lighting power determination for medium base sockets without permanently installed ballasts

§132(a): All permanently installed luminaires with lamps rated over 100 Watts either have a lamp efficacy of at least 60 lumens per Watt or are controlled by a motion sensor.

§132(b): All Luminaires with lamps rated greater than 175 Watts in hardscape area, including parking lots, building entrances, canopies, and all outdoor sales areas meet the Cutoff Requirements.

§132(c)1: All permanently installed outdoor lighting meets the control requirements listed.

§132(c): Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-Level Lighting Requirements listed.

EnergyPro 5.1 by EnergySoft User Number: 4903 RunCode: 2013-10-29T17:28:27 ID: 12-129 Page 9 of 9

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CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

TITLE 24 COMPLIANCE FORMS

CITY OF Fremont — COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed -- Associate Land. Arch.~~	Date	Recommended -- Project Manager	Date

Scale:	AS SHOWN
Designed By:	
Drawn By:	TML
Date:	11-18-15
Project No.:	8718 (PWC)
CAD File:	12129E4.0.dwg
SHEET 28 OF 37	
	E4.0

ABBREVIATIONS

AD	ACCESS DOOR
ADA	AMERICAN DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
ARCH	ARCHITECTURAL
BOP	BOTTOM OF PIPE
CO	CLEANOUT
CPC	CALIFORNIA PLUMBING CODE
CW	COLD WATER (DOMESTIC)
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DN	DOWN
DWGS	DRAWINGS
DWV	DRAIN WASTE VENT
ø	DIAMETER
(E)	EXISTING
EA	EACH
EL/ELEV	ELEVATION
ELEC/ELECT	ELECTRICAL
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
°F	FAHRENHEIT IN DEGREES
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FF	FINISHED FLOOR
FLA	FULL LOAD AMPS
FLR	FLOOR
FT	FEET
FTWG	FEET OF WATER, GAUGE PRESSURE
FT	SQUARE FEET
FU	FIXTURE UNIT
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GCO	GRADE CLEANOUT
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPF	GALLONS PER FLUSH
GSM	GALVANIZED SHEET METAL
GV	GATE VALVE
HB	HOSE BIBB
H20	WATER
HET	HIGH FREQUENCY TOILET
LAV	LAVATORY
LBS	POUNDS
LF	LINEAR FEET
LG	LENGTH
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	1000 BTUS PER HOUR
MECH/MECH'L	MECHANICAL
MIN	MINIMUM
(N)	NEW
N/A	NOT APPLICAB E
NC	NORMALLY CLOSED/NOISE CRITERIA
NIC	NOT IN CONTRACT
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PDI	PLUMBING AND DRAINAGE INSTITUTE
PH	PHASE
PBLG	PLUMBING
POC	POINT OF CONNECTION
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
R	RELOCATED
REQ'D	REQUIRED
SCH	SCHEDULE
SF	SQUARE FOOT
SK	SINK
SS	STAINLESS STEEL
SS	SANITARY SEWER
STD	STANDARD
STRUCT	STRUCTURAL
TP	TRAP PRIMER
TV	TURNING VANES
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDER WRITER'S LABORATORY
UON	UNLESS OTHERWISE NOTED
UR/U	URINAL
V	VENT
VTR	VENT THRU ROOF
W	WASTE
WC	WATER CLOSET
WCO	WALL CLEANOUT
WHA	WATER HAMMER ARRESTOR
WT	WEIGHT

LEGEND AND SYMBOLS

POC	POINT OF CONNECTION
P.O.C.	THICK LINE REPRESENTS (N) WORK THIN LINE REPRESENTS (E) WORK
SOV	SHUT-OFF VALVE, PLAN / RISER
BV	BALL VALVE
CV	CHECK VALVE
HB	HOSE BIBB
	DIRECTION OF FLOW
	BALL VALVE
	DIRECTION OF FLOW
FCO	FLOOR CLEANOUT
GCO	GRADE CLEANOUT
	CLEANOUT PLUG
FD	FLOOR DRAIN
	SLOPE DOWN IN DIRECTION OF ARROW
WHA	WATER HAMMER ARRESTOR
CO	CLEANOUT
WCO	WALL CLEANOUT
(E)	EXISTING LINE
SS	ABOVE FLOOR SANITARY SEWER PIPING
SS	BELOW FLOOR SANITARY SEWER PIPING
V	VENT PIPING (SANITARY)
CW	DOMESTIC COLD WATER SUPPLY PIPING
HW	DOMESTIC HOT WATER SUPPLY PIPING
TP	TRAP PRIMER PIPING
	RISER UP (ELBOW)
	RISER DOWN (ELBOW)
	RISE OR DROP
	BRANCH-SIDE CONNECTION
	BRANCH-TOP CONNECTION
	BRANCH-BOTTOM CONNECTION
VTR	VENT THRU ROOF
SECTION NO. / DRAWING NO.	SHEET TAG
DETAIL NO. / DRAWING NO.	DETAIL TAG
EQUIPMENT TYPE / EQUIPMENT NUMBER	EQUIPMENT TAG
1	KEY NOTE TAG

GENERAL NOTES

1. CONTRACTOR SHALL PAY AND OBTAIN FOR ALL REQUIRED UTILITY SERVICES, INSPECTIONS AND PERMITS.
2. ALL WORK SHALL COMPLY WITH THE 2010 UNIFORM PLUMBING CODE.
3. PRIOR TO BIDDING, THE CONTRACTOR SHALL OBTAIN COPY OF THE PLANS AND SPECIFICATIONS AND EXAMINE THEM. ANY DISCREPANCIES OR CONFLICTS IN THE DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ARCHITECT AND/OR ENGINEER, IN WRITING, BEFORE BIDS ARE SUBMITTED. NO ALLOWANCE WILL BE MADE FOR FAILURE TO SUBMIT DISCREPANCIES TO THE ARCHITECT AND/OR ENGINEER.
4. PRIOR TO START OF CONSTRUCTION WORK, PLUMBING CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWING IN ADEQUATE DETAIL FOR REVIEW AND APPROVAL BY THE ARCHITECT AND/OR ENGINEER.
5. CONTRACTOR SHALL CLOSELY COORDINATE WORK WITH ALL TRADES.
6. VERTICAL AND HORIZONTAL OFFSETS SHOWN IN PIPES INDICATE THE GENERAL RELATIONSHIP OF THE SYSTEMS. PROVIDE ADDITIONAL OFFSETS SIMILAR TO THOSE SHOWN AS REQUIRED TO SUIT CONSTRUCTION AND WORK DONE BY OTHER TRADES. THE CONTRACTOR SHALL PROVIDE ALL. NECESSARY ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.
7. ALL VALVES, CONTROLS, ETC. SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS. PROVIDE ADEQUATELY SIZED ACCESS DOORS WHERE REQUIRED.
8. EXAMINE ARCHITECTURAL DRAWINGS TO ENSURE THAT ALL PIPING CROSSING FIRE AND/OR SMOKE SEPARATION CONSTRUCTION SHALL BE SEALED WITH UL LISTED ASSEMBLIES.
9. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES.
10. OFFSET VENTS AT ROOF AS REQUIRED TO MAINTAIN 10 FEET SEPARATION FROM ANY AIR INTAKE, DOORS, OPERABLE WINDOWS AND TERRACES. COMBINE ALL VENTS IN PROXIMITY IN ATTIC SPACE TO MINIMIZE ROOF PENETRATIONS.
11. PROVIDE 3/8 INCH COLD WATER SUPPLY TO ICE MAKER BOXES/REFRIGERATOR FROM KITCHEN SINK COLD WATER SUPPLY, WHEN REQUIRED. PROVIDE 3/8 INCH HOT WATER SUPPLY TO DISHWASHER FROM KITCHEN SINK HOT WATER SUPPLY. SUPPLY PIPES SHALL BE COMPLETE WITH SHUTOFF VALVE AND WATER HAMMER ARRESTOR, WHERE REQUIRED BY UPC.
12. HORIZONTAL SANITARY SEWER PIPES SHALL HAVE 1/4" PER FOOT MINIMUM SLOPE OR 2% MINIMUM FLOW TOWARDS THE DISPOSAL AREA.
13. ALL HOSE BIBS SHALL BE PROVIDED WITH NON-REMOVABLE BACKFLOW PREVENTION DEVICE.
14. ALL WATER AND DRAINAGE PIPING SYSTEMS SHALL BE INSTALLED WITH ACOUSTICAL ISOLATORS AND SHALL BE ISOLATED FROM ANY STRUCTURAL MEMBERS, WALL SECTIONS OR OTHER MATERIALS THAT COULD TRANSMIT SOUND TO THE OCCUPIED AREAS.
15. PIPING PENETRATIONS OF STRUCTURAL MEMBERS SHALL BE IN ACCORDANCE WITH STRUCTURAL DRAWINGS AND MUST BE COORDINATED WITH THE TRADES INVOLVED BEFORE MAKING THE PENETRATIONS.
16. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR SPACING COORDINATION OF WOOD FRAMING AND SPECIAL CONDITIONS REQUIRED FOR INSTALLATION OF PLUMBING WORK. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR OBSTRUCTIONS.
17. ALL PIPING ON PLANS IS TYPICALLY SHOWN CONCEALED IN CEILING OR PLUMBING WALLS. RISERS AND OFFSETS SHALL BE CONCEALED IN WALLS OR CEILING UNLESS OTHERWISE NOTED.
18. EACH PLUMBER USING A TORCH TO SWEAT PIPE JOINT SHALL HAVE ACCESS TO 2A RATED FIRE EXTINGUISHER AT WORK AREA AND SHALL FIRE WATCH FOR 1/2-HOUR AFTER USE, IN COMPLIANCE WITH THE UNIFORM FIRE CODE (UFC).
19. ALL PIPING PENETRATING CONCRETE FLOOR OR WALL MUST BE PROVIDED WITH SLEEVE TO PREVENT PIPE BREAKAGE.
20. FURNISH AND INSTALL ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED WHICH IS NECESSARY TO PROVIDE A COMPLETE AND WORKABLE SYSTEM.
21. FOR EXACT LOCATIONS OF PLUMBING FIXTURES, FLOOR DRAINS, DOWNSPOUT AND HOSE BIBS, SEE ARCHITECTURAL DRAWINGS AND DETAILS.
22. KEEP ALL PLUMBING PIPING AS HIGH AS POSSIBLE TO STRUCTURE ABOVE AND OFFSET AS REQUIRED.
23. FOR ANY CONFLICT IN THE DRAWINGS AND/OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. ANY SUCH CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO THE CONSTRUCTION OF SUCH ITEMS.
24. ALL PIPING PENETRATIONS SHALL BE "UL LISTED THROUGH PENETRATION FIRE STOP SYSTEM" PENETRATING A RATED WALL.
25. COORDINATE ROUGH-IN OF ALL WORK WITH EQUIPMENT/FIXTURE REQUIREMENTS AND OTHER TRADES.
26. ALL PLUMBING EQUIPMENT SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE.
27. INSTALL ACCESS PANELS IN ALL NON-ACCESSIBLE CEILINGS AND WALLS FOR ACCESS TO VALVES, CLEANOUTS AND OTHER MAINTENANCE ITEMS. REFER TO ARCHITECTURAL PLANS FOR TYPE OF CEILINGS AND WALLS. INSTALL FIRE RATED ACCESS PANELS IN FIRE RATED CEILING AND WALLS. SEE ARCHITECTURAL SPECIFICATIONS FOR ACCESS PANELS. COORDINATE WITH GENERAL CONTRACTOR FOR LOCATIONS OF ACCESS PANELS.
28. WHERE MAIN PIPE SIZE IS NOT INDICATED BETWEEN BRANCH CONNECTIONS IN THE DRAWING, THE PIPE SIZE SHALL BE OF THE LARGER PRECEDING PIPE SIZE.
29. ALL VALVES AND ACCESSORIES SHALL BE FULL LINE SIZE. PROVIDE ALL NECESSARY UNIONS, REDUCERS AND STOPS AS REQUIRED WHEN CONNECTING TO EACH FIXTURE AND/OR EQUIPMENT.
30. PROVIDE CLEANOUTS ON DRAINAGE LINES IN ACCORDANCE WITH THE PLUMBING CODE AND AS INDICATED ON THE DRAWINGS.
31. PROVIDE DEEP SEAL TRAPS ON ALL FLOOR DRAINS.
32. PROVIDE INDIVIDUAL SHUT-OFF VALVE/SUPPLY STOP TO ALL PLUMBING FIXTURES AND EQUIPMENT.
33. ALL PIPING IN CONCRETE FOUNDATIONS, AND WALLS, INCLUDING BLOCK WALLS SHALL BE FULLY INSULATED TO ISOLATE PIPING FROM CONCRETE.
34. ALL PLUMBING FIXTURES AND PIPING SHALL BE LISTED BY AN APPROVED LISTING AND TESTING AGENCY AND PROPERLY LABELED PER CPC SECTION 301.1.1.
35. ALL WATER CLOSETS SHALL HAVE A MAXIMUM OF 1.6 GPF. CALIFORNIA HEALTH AND SAFETY CODE SECTION 17921.3.
36. ALL DOMESTIC WATER VALVES UP TO AND INCLUDING 2" SIZE SHALL BE BRASS OR OTHER APPROVED MATERIALS. EACH GATE VALVE SHALL BE A FULL-WAY TYPE WITH WORKING PARTS OF NON-CORROSIVE MATERIAL PER CPC 605.1.
37. REMOVE AND DISPOSE OFF FROM SITE ALL ITEMS CALLED OUT TO BE REMOVED OR DEMOLISHED IN DRAWINGS.

SHEET INDEX

P0.0	GENERAL NOTES, SYMBOLS, & ABBREVIATIONS
P1.0	PLUMBING SCHEDULES
P2.0	SANITARY SEWER PLAN
P2.1	PLUMBING FLOOR PLAN AND DETAILS

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No.	Date	Revision	By
A	10-01-15		
1	11-18-15	90% -100% REVIEW	
4	10/31/17	RE-BID	

CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

CITY OF Fremont — COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed — Associate Land. Arch.~~	Date	Recommended -- Project Manager	Date

Scale:	AS NOTED
Designed By:	JRM
Drawn By:	TML
Date:	11-18-15
Project No.:	8718 (PWC)
CAD File:	12129P0.0.dwg
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P0.0

PLUMBING FIXTURES SCHEDULE

TAG	DESCRIPTION	MANUFACTURER/ MODEL NUMBER	SPECIFICATIONS	MIN PIPE SIZE CONNECTIONS, IN WASTE	VENT	CW	HW	REMARKS
WC-1	WATER CLOSET	ACORN MERIDIAN 2141 METCRAFT 4135- NON ADA	FLOOR OUTLET SIPHON JET TOILET FIXTURE WITH CONCEALED SUPPLY, 14 GA 304 SS WELDED ONE-PIECE CONSTRUCTION, INTEGRAL ELONGATED SEAT, VANDAL RESISTANT, 1.6 GPF, AND CARRIER. FURNISH WITH EXPOSED LOW CONSUMPTION FLUSH VALVE - 1.6 GPF. FIELD VERIFY PRIOR TO ORDERING.	3"	2"	1-1/4"		PROVIDE CONCEALED FLUSHOMETER VALVE ZURN AQUASENSE ZEMS6140AV HARDWIRED SENSOR FLUSH VALVE WITH PUSHBUTTON OVER RIDE, VACUUM BREAKER, SPUD COUPLING AND FLANGE FOR BACK SPUD CONNECTION. ELECTRICAL J-BOX BY ELECTRICAL DIVISION.
WC-2	WATER CLOSET ADA	ACORN MERIDIAN 2141 METCRAFT 4135-ADA	FLOOR OUTLET SIPHON JET TOILET FIXTURE WITH CONCEALED SUPPLY, 14 GA 304 SS WELDED ONE-PIECE CONSTRUCTION, INTEGRAL ELONGATED SEAT, VANDAL RESISTANT, 1.6 GPF, AND CARRIER. FURNISH WITH EXPOSED LOW CONSUMPTION FLUSH VALVE - 1.6 GPF. FIELD VERIFY PRIOR TO ORDERING. ADA.	3"	2"	1-1/4"		PROVIDE CONCEALED FLUSHOMETER VALVE ZURN AQUASENSE ZEMS6140AV HARDWIRED SENSOR FLUSH VALVE WITH PUSHBUTTON OVER RIDE, VACUUM BREAKER, SPUD COUPLING AND FLANGE FOR BACK SPUD CONNECTION. ELECTRICAL J-BOX BY ELECTRICAL DIVISION.
UR-1	URINAL	ACORN DURA-WARE 2158 URINAL - NON ADA	WALL OUTLET SIPHON JET TOILET FIXTURE WITH EXPOSED TOP SUPPLY, 18 GA 304 SS WELDED ONE-PIECE CONSTRUCTION WITH 16 GA SS BOWL, VANDAL RESISTANT. FURNISH WITH ANCHOR AND CONCEALED 0.5 GPF LOW CONSUMPTION FLUSH VALVE. FIELD VERIFY PRIOR TO ORDERING.	2"	1-1/2"	1"		PROVIDE CONCEALED URINAL FLUSHOMETER VALVE ZURN AQUASENSE ZEMS6195AV HARDWIRED SENSOR FLUSH VALVE WITH PUSHBUTTON OVER RIDE, VACUUM BREAKER, SPUD COUPLING AND FLANGE FOR BACK SPUD CONNECTION. ELECTRICAL J-BOX BY ELECTRICAL DIVISION.
UR-2	URINAL ADA	ACORN DURA-WARE 2158 URINAL - ADA	WALL OUTLET SIPHON JET TOILET FIXTURE WITH EXPOSED TOP SUPPLY, 18 GA 304 SS WELDED ONE-PIECE CONSTRUCTION WITH 16 GA SS BOWL, VANDAL RESISTANT. FURNISH WITH ANCHOR AND CONCEALED 0.5 GPF LOW CONSUMPTION FLUSH VALVE . FIELD VERIFY PRIOR TO ORDERING. 17" ADA MOUNTING HEIGHT.	2"	1-1/2"	1"		PROVIDE CONCEALED URINAL FLUSHOMETER VALVE ZURN AQUASENSE ZEMS6195AV HARDWIRED SENSOR FLUSH VALVE WITH PUSHBUTTON OVER RIDE, VACUUM BREAKER, SPUD COUPLING AND FLANGE FOR BACK SPUD CONNECTION. ELECTRICAL J-BOX BY ELECTRICAL DIVISION.
LAV-1	WALL HUNG LAVATORY	METCRAFT 5680 ACORN 1652LRB	SINGLE PIECE 14 GA 304 SS VANDAL RESISTANT LAVATORY WITH 4" BACKSPLASH AND A775 SS ANGLE BRACES. PROVIDE WITH SINGLE TEMPERATURE VALVE AND SPOUT. FURNISH WITH QUARTER TURN STOPS. ADA COMPLIANT. ALTERNATE: ACORN MERIDIAN 3701-1 SERIES ADA.	2"	1-1/2"	1/2"		PROVIDE (IWH-2) EEMAX THERMOSTATIC ELECTRIC TANKLESS WATER HEATERS. MODEL EX55T_ML LOCATED IN UTILITY CHASE. 5.5 KW, 240V, 23A, 75 DEG. F RISE AT 0.5 GPM.
~~DF-1~~	~~DRINKING FOUNTAIN EXTERIOR~~	~~ELKAY BARRIER FREE WALL MOUNT DRINKING FOUNTAIN MODEL EHWM17C~~	~~TWO LEVEL WALL MOUNTED DRINKING FOUNTAIN, 14 GA 304 SS, NSF/ANSI 61, AB 1953 COMPLIANT. ADA COMPLIANT. VANDAL RESISTANT BUBBLER, FULLY ASSEMBLED FRONT PUSH BUTTONS, FLOW REGULATOR. FURNISH WITH TRAP AND STOPS. FURNISH WITH VANDALPROOF MOUNTING FRAME AND ACCESS PANEL.~~	~~2"~~	~~1-1/4"~~	~~1/2"~~		
TP-1	TRAP PRIMER	PPS PRIME RITE #PR-500	CORROSION RESISTANT BRASS TRAP PRIMER, AUTOMATICALLY ADJUSTS TO LINE PRESSURE.			1/2"		

PIPING MATERIAL SCHEDULE

PIPE	NO-HUB CAST IRON	DWV COPPER	TYPE "K" COPPER	TYPE "L" COPPER	TYPE "M" COPPER	SCH 40 BLACK STEEL	SCH. 40 GALVANIZED STEEL	REMARKS
SANITARY SEWER	X							
HOT WATER				X				
COLD WATER			X UNDERGROUND	X ABOVEGROUND				USE TYPE "K" FOR UNDERGROUND
VENT	X	X						
CONDENSATE					X NON PRESSURE			

NOTES:

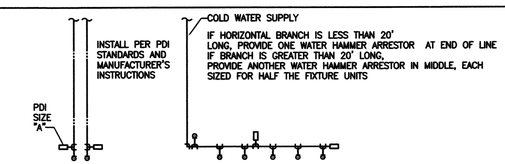
1. SUSPENDED PIPING SHALL BE SUPPORTED AT INTERVALS NOT TO EXCEED THOSE SHOWN IN CPC TABLE 3-2.
2. HANGER ROD SIZES SHALL BE NO SMALLER THAN THOSE SHOWN IN CPC TABLE 3-1.

DRAINAGE FIXTURE UNIT (DFU) AND WATER SUPPLY FIXTURE UNIT (WSFU) SUMMARY

PROJECT: FABBRI FIELD
ADDRESS: FREMONT, CA
BUILDING:

TYPE	QUANTITY	SANITARY SEWER FIXTURE UNITS (DFU)	SANITARY SEWER TOTAL DFU	COLD WATER FIXTURE UNITS (WSFU)	COLD WATER TOTAL WSFU	HOT WATER WSFU FACTOR	HOT WATER TOTAL WSFU
WATER CLOSET	6	4	24	2.5	15		
LAVATORY (COLD WATER ONLY)	4	1	4	1	4		
URINAL	2	2	4	4	8		
FLOOR DRAIN	2	2	4				
TOTAL FIXTURE UNITS			36		27		0.00
WATER DEMAND, GPM					40		.
MINIMUM PIPE SIZE, INCH			4"		2"		."

*SEE DRAWINGS FOR ACTUAL PIPE SIZES.



SINGLE FIXTURE

PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1–11
B	3/4"	12–32
C	1"	33–60
D	1–1/4"	61–113
E	1–1/2"	114–154
F	2"	154–330

FIXTURE UNIT TABULATION	
FIXTURE	COLD
VALVE WATER CLOSET	10
LAVATORY/SINK	1.5

PLUMBING CONTRACTOR SHALL PROVIDE WATER HAMMER ARRESTORS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE # 1010 ANS ANSI # A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE.

3 **WATER HAMMER ARRESTOR SCHEDULE**
NOT TO SCALE

DRAINS AND CLEANOUT SCHEDULE

TAG	MANUFACTURER	MODEL NO.	STRAINER/ COVER TYPE	REMARKS
FD-1 / FLOOR DRAIN	JR Smith	2005Y-U-NB	5" ADJUSTABLE ROUND TOP, NICKEL BRONZE STRAINER HEAD	DUCO CAST IRON BODY WITH FLASHING COLLAR AND ADJUSTABLE STRAINER HEAD, HINGED GRATE, VANDAL PROOF SCREWS.
FCO / FLOOR CLEANOUT	JR Smith	4422	5-1/2" ROUND PRIME COATED STEEL	CAST IRON IRON SPIGOT FERRULE WITH CAST BRONZE TAPER THREADED PLUG. SS ROUND COVER, VANDAL PROOF SCREWS.
WCO / WALL CLEANOUT	JR Smith	4021S-U	5-3/4" ROUND NICKEL BRONZE TOP	DUCO CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORIATED SECURE NICKEL BRONZE TOP. CLOSURE PLUG TYPE, VANDAL PROOF.

NOTES:
1. PROVIDE FLOOR DRAIN WITH 1/2" TRAP PRIMER PIPE CONNECTION.
2. SEE PLANS FOR MINIMUM TYPE SIZE CONNECTIONS.

INSTANTANEOUS WATER HEATER SCHEDULE

TAG	MANUFACTURER	MODEL	INPUT (KW)	TEMP RISE (DEG F)	FLOW RATE (GPM)	ELECTRICAL AMP	ELECTRICAL V	REMARKS
IWH-2	EEMAX	EX55T	5.5	75.00	0.5	23	240	

NOTES:

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A	10-01-15		
1	11-18-15	90% -100% REVIEW	
2	10/31/17	RE-BID	

CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

PLUMBING SCHEDULES

CITY OF Fremont
COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed -- Associate Land. Arch.~~ | Date | Recommended -- Project Manager | Date

Scale: AS NOTED
Designed By: JRM
Drawn By: TML
Date: 11-18-15
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SHEET 30 OF 37
P1.0

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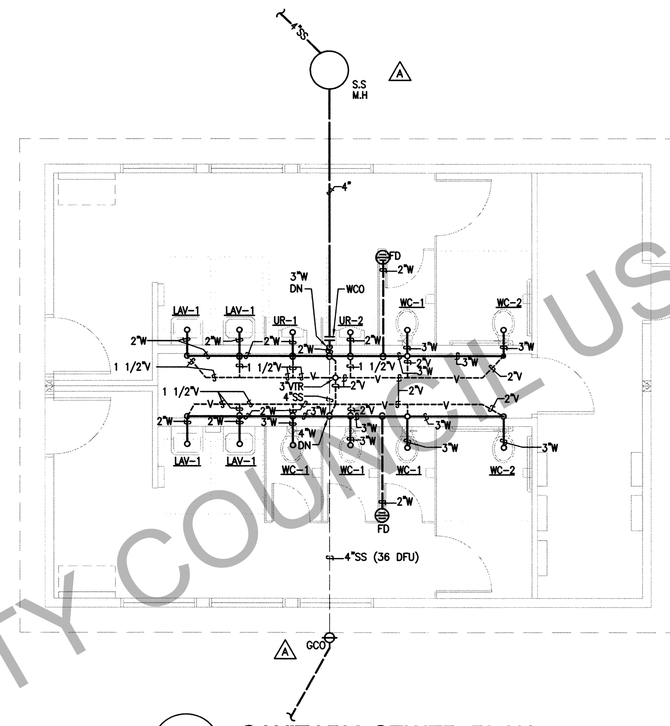

1 **SANITARY SEWER PLAN**

SCALE: 1/4" = 1'-0'

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CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

SANITARY SEWER PLAN

CITY OF Fremont

COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed -- Associate Land. Arch.~~ | Date | Recommended -- Project Manager | Date

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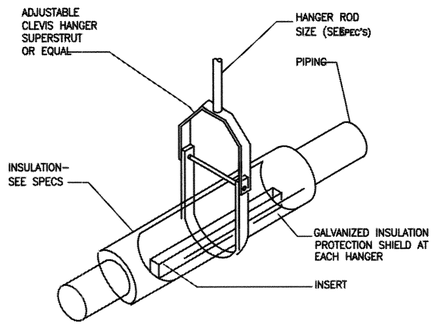
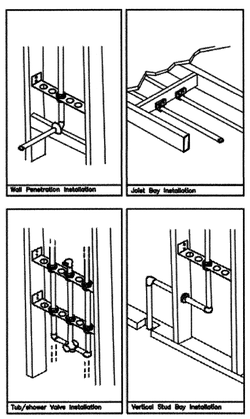


2 PIPE HANGER & INSULATION DETAIL

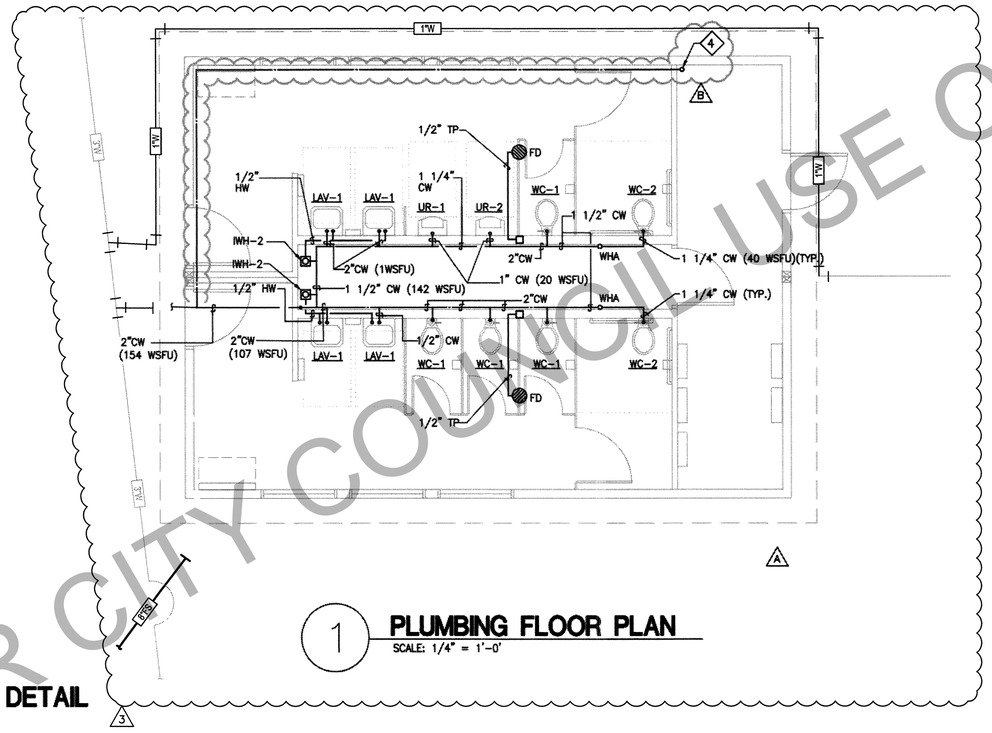
NO SCALE



Acousto Plumb System Installation Examples
(Pipes 1" Diameter or less)

3 TYPICAL PIPE ACOUSTICAL ISOLATION DETAIL

NO SCALE



1 PLUMBING FLOOR PLAN

SCALE: 1/4" = 1'-0'

KEY NOTES

DEFERRED SUBMITTAL BY FIRE SPRINKLER CONTRACTOR

1. PROVIDE A HYDRAULICALLY DESIGNED FIRE PROTECTION SYSTEM PER NFPA 13 DESIGNED TO SUPPLY BOTH DOMESTIC AND FIRE FLOW REQUIREMENTS.
2. SUBMIT FIRE SUPPRESSION DESIGN DRAWINGS, PIPING SHOP DRAWINGS, HYDRAULIC CALCULATIONS, INCLUDING ALL MATERIALS AND DEVICES USED ON THE PROJECT TO THE FIRE MARSHALL OR AHJ FOR THE PURPOSE OF SECURING A FIRE SPRINKLER PROTECTION PERMIT.
3. OBTAIN FIRE FLOW INFORMATION AT THE SITE, ETC. AS REQUIRED TO DESIGN THE FIRE SPRINKLER SUPPRESSION SYSTEM.
4. FIRE SPRINKLER RISER LOCATED INSIDE UTILITY ROOM OR CLOSET TO PROTECT FROM VANDALISM AND TAMPERING.

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CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

PLUMBING FLOOR PLAN

CITY OF Fremont
COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed~~ ~~Associate Land. Arch.~~ | Date | Recommended -- Project Manager | Date

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SHEET	32 OF 37

P2.1

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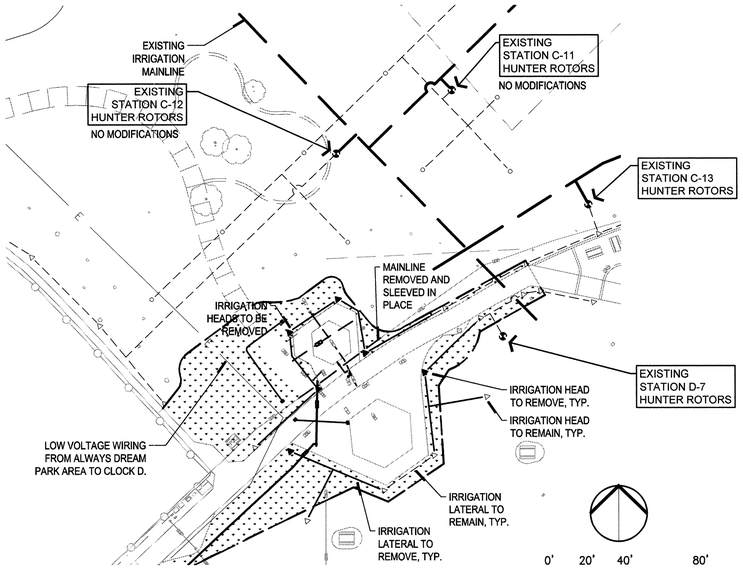


1 IRRIGATION DEMOLITION

SCALE: 1"=40'-0"

IRRIGATION DEMOLITION NOTES

1. COORDINATE WITH CITY OF FREMONT PARKS REPRESENTATIVE FOR LOCATIONS OF ALL GATE VALVES AND SHUT-OFF DEVICES PRIOR TO DEMOLITION.
2. INFORMATION ON VALVES AND ZONES BASED ON SITE INSPECTION WITH CITY OF FREMONT PARKS DEPARTMENT. FOR ANY SITE QUESTIONS OR COORDINATION , CONTACT MARK MENNUCCI 510-494-4530, AND NOTIFY LANDSCAPE ARCHITECT.
3. VALVES AND MAINLINES ARE NOT ACTUAL AND NEED TO BE CONFIRMED BY CONTRACTOR. CONTRACTOR SHALL PROTECT CONTROLLER WIRES FOR EXISTING VALVES TO REMAIN.
4. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND IRRIGATE AREAS OF PLANT MATERIAL TO REMAIN. TEMPORARY IRRIGATION METHODS NEED TO BE DONE TO MAINTAIN HEALTH OF PLANTS UNTIL PERMANENT IRRIGATION SYSTEM IS INSTALLED.
5. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY PLANTS OF EQUAL VALUE, THAT DIE WITHIN A MODIFIED IRRIGATION ZONE.

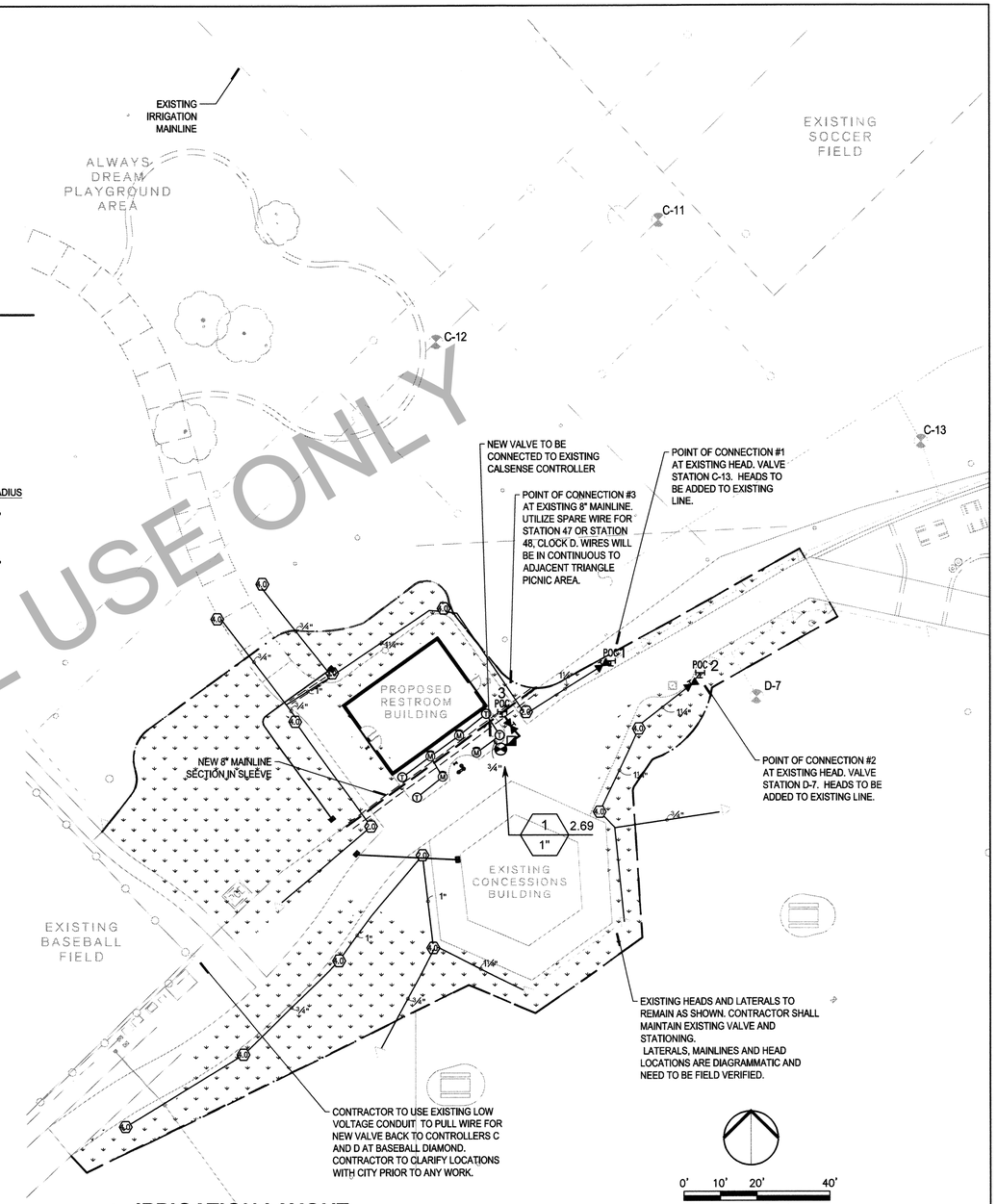
IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
M O	Hunter MP1000 PROS-12-CV Shrub Rotator, 12" (30.48 cm) pop-up with check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc on PRS40 body.	4	30
T	Hunter MP Corner PROS-12-CV Shrub Rotator, 12" (30.48 cm) pop-up with factory installed check valve, pressure regulated to 40 psi (2.76 bar), MP Rotator nozzle. T=Turquoise adj arc 45-105 on PRS40 body.	4	30

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM	RADIUS
2.0	Hunter I-20-04-NCV Turf Rotor, 4.0" Pop-Up. Adjustable and Full Circle. Plastic Riser. Standard Nozzle.	4	35	1.70	33'
4.0	Hunter I-20-04-NCV Turf Rotor, 4.0" Pop-Up. Adjustable and Full Circle. Plastic Riser. Standard Nozzle.	10	35	3.50	39'

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Griswold 2000H (2) 1" Solenoid, Normally Closed Remote Control Valve. Cast Iron and Bronze Material. NPT End Connection. (ISOLATED SHRUB VALVE)	1
	Hunter HQ-44LRC-AW Quick coupler valve, yellow rubber locking cover, red brass and stainless steel, with 1" NPT inlet, 2-piece body. Acme Key with Anti-Rotation Wings.	1
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location. Size Range - 1/4" - 3"	3
POC 1	Point of Connection 2" Point of connection #1 on existing valve C-13 lateral. Contractor to adjust system accordingly.	1
POC 2	Point of Connection 2" Point of connection#2 on existing valve D-7 lateral. Contractor to adjust system accordingly.	1
POC 3	Point of Connection 1" Point of Connection #3 on existing 8" mainline.	1
	Irrigation Lateral Line: PVC Schedule 40 and Class 315 PVC Schedule 40 to 1-1/2", PVC Class 315 SDR 13.5 for pipes 2" and larger.	1,854 l.f.
	Irrigation Mainline: PVC Schedule 40 and Class 315 PVC Schedule 40 to 1-1/2", PVC Class 315 SDR 13.5 for pipes 2" and larger.	78.8 l.f.
	Pipe Sleeve: PVC Class 315 SDR 13.5 Typical pipe sleeve for irrigation pipe. Min. size 2x diameter of pipe being sleeved. Extend sleeves 18 inches beyond edges of paving or construction.	73.5 l.f.

Valve Callout
- Valve Number
- Valve Flow
- Valve Size



2 IRRIGATION LAYOUT

SCALE: 1"=20'-0"

IRRIGATION GENERAL NOTES

1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH CITY OF FREMONT STANDARDS.
2. THE IRRIGATION SYSTEM IS DESIGNED TO OPERATE AT 40-120 PSI AND SCHEDULED FOR A MAXIMUM OF 50 GPM TO RUN AT A SINGLE TIME. CONTRACTOR SHALL COORDINATE SYSTEM FLOWS, AVAILABLE PRESSURE AND SCHEDULING WITH CITY OF FREMONT PROJECT REPRESENTATIVE. 1
3. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH. LANDSCAPE SUBCONTRACTOR SHALL GUARANTEE 100% COVERAGE OF SYSTEM.
4. EXISTING IRRIGATION CONTROLLER TO BE USED.
5. SPLICING OF 24 VOLT WIRES IS NOT PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 36" LONG, 6" DIAMETER COIL OF EXCESS WIRE AT EACH SPLICE AND A 36" LONG EXPANSION LOOP EVERY 100 FEET ALONG WIRE RUN. TAPE WIRE TOGETHER EVERY TEN FEET. TAPING WIRES IS NOT REQUIRED INSIDE SLEEVES. RUN WIRE FROM EACH REMOTE CONTROL VALVE TO THE CONTROLLER. ALL CONTROLLER WIRES TO BE INDEXED AT VALVES AND CONTROLLER.
6. PLASTIC VALVE BOX LIDS TO BE T-STYLE NON-HINGED COVERS. BOX BODY SHALL HAVE KNOCK-OUTS WITH BOLT-DOWN LIDS.
7. INSTALL NEW REMOTE CONTROL VALVE BOXES 12" FROM WALK, CURB, LAWN, HEADER BOARD, BUILDING, OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, EACH BOX SHALL BE AN EQUAL DISTANCE FROM THE WALK, CURB, LAWN, ETC. AND EACH BOX SHALL BE 12" APART. SHORT SIDE OF RECTANGULAR VALVE BOXES SHALL BE PARALLEL TO WALK, CURB, LAWN, ETC.
8. THIS PLAN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHERE POSSIBLE. AVOID ANY CONFLICTS BETWEEN THE SPRINKLER SYSTEM AND PLANTING AND ARCHITECTURAL FEATURES.
9. THE IRRIGATION CONTRACTOR SHALL FLUSH ALL LINES AND ADJUST ALL HEADS FOR MAXIMUM PERFORMANCE AND TO MINIMIZE OVERSPRAY ON TO WALKS, WALLS, FENCES, DRIVES, AND BUILDINGS AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT EXISTING CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM.
10. ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE NOTED ON THE DRAWINGS.
11. SEE DETAILS FOR COMMON TRENCHING REQUIREMENTS.
12. ALL PVC SLEEVES UNDER PAVEMENT AND ROADWAYS TO BE SCH. 40. SLEEVES TO BE TWICE THE DIAMETER OF PIPE OR WIRE BUNDLE THAT WILL PASS THROUGH SLEEVE.
13. SUBSTITUTION FOR IRRIGATION EQUIPMENT SPECIFIED ON THE PLANS MAY BE DONE ONLY WITH THE APPROVAL OF THE OWNER'S REPRESENTATIVE.
14. PROVIDE A MINIMUM 24" COVER OVER ALL MAIN LINE PIPING AND 18" OVER ALL LATERAL LINES.
15. THE IRRIGATION SUBCONTRACTOR SHALL NOT WILLFULLY INSTALL THE SYSTEM AS DESIGNED WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS OR GRADE DIFFERENCES EXIST THAT WERE NOT IDENTIFIED IN THE DRAWINGS. SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. OTHERWISE, THE SUBCONTRACTOR MUST ASSUME FULL RESPONSIBILITY FOR ANY NECESSARY REVISIONS.
16. ALL WIRE CONNECTIONS TO BE MADE IN VALVE BOX WITH WATER TIGHT CONNECTORS PER THE MANUFACTURERS DIRECTIONS. WIRE SPLICES SHALL NOT BE PERMITTED UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE. WIRE SPLICE LOCATIONS MUST BE INDICATED ON "AS-BUILTS" PER THE SPECIFICATIONS.
17. ALL PIPE 2 1/2" AND SMALLER TO BE SOLVENT WELD AND ALL PIPE 3" AND OVER TO BE RING-TITE.
18. CONTRACTOR TO VERIFY LOCATIONS OF ALL ON-SITE UTILITIES. RESTORATION OF DAMAGED UTILITIES SHALL BE MADE AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE CITY.
19. SEE IRRIGATION DETAILS FOR ADDITIONAL INFORMATION.

GENERAL NOTES

1. EXISTING IRRIGATION LAYOUT IS DIAGRAMMATIC. CONTROLLERS, MAINLINE AND VALVE LOCATIONS NEED TO BE FIELD VERIFIED.
2. CONTRACTOR SHALL VERIFY LOCATIONS AND PROTECT AS NECESSARY.
3. CONTROLLERS C & D ARE LOCATED AT FABBRI BASEBALL FIELD.

LICENSED LANDSCAPE ARCHITECT ROBERT J. NORBUTAS No.5595 Signature Exp. 11/30/18 STATE OF CALIFORNIA

DATE SIGNED: 06/01/17

No.	Date	Revision	By
1			
2	10/17/16	CYCLE 3 PLAN CHECK	RJS
3	05/10/17	CYCLE 4 PLAN CHECK	MWK
4	10/31/17	RE-BID	
5			

CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

IRRIGATION PLAN

CITY OF Fremont
COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed~~ ~~Associate Land. Arch.~~ Date Recommended -- Project Manager Date

Scale:	NONE
Designed By:	RJN
Drawn By:	RJN
Date:	10/17/2014
Project No.:	8718 (PWC)
CAD File:	12203-L1.X.dwg
SHEET 33	OF 37

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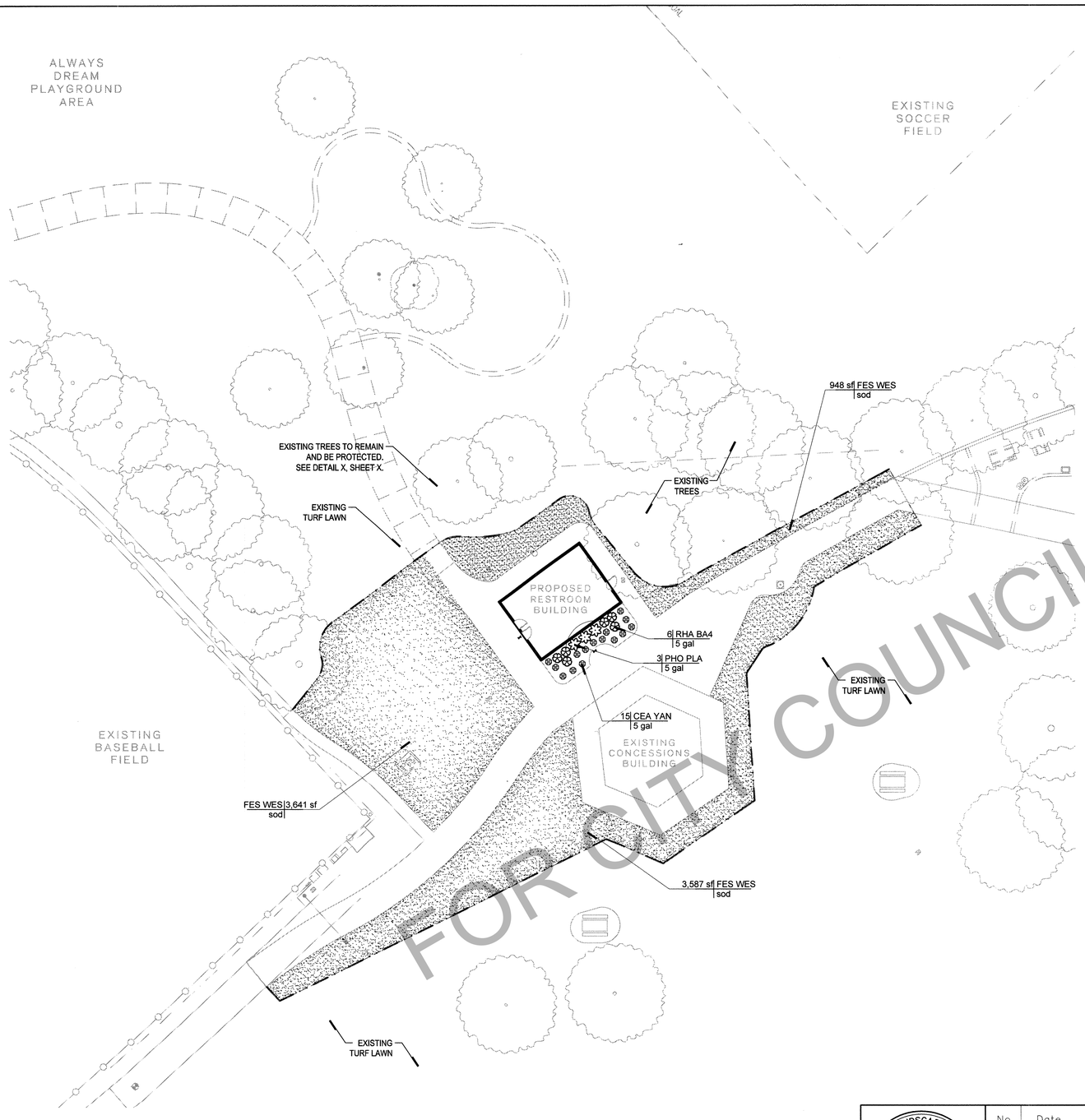

PLANT LEGEND

SHRUBS	CODE	BOTANICAL NAME / COMMON NAME	CONT	QTY	REMARKS
	CEA YAN	Ceanothus griseus horizontalis `Yankee Point` / California Lilac	5 gal	15	
	PHO PLA	Phormium x `Platt`s Black` / New Zealand Flax	5 gal	3	
	RHA BA4	Rhaphiolepis indica `Ballerina` / Ballerina Indian Hawthorn	5 gal	6	

SOD/SEED	CODE	BOTANICAL NAME / COMMON NAME	CONT	SPACING	QTY	REMARKS
	FES WES	Non-netted Tall Fescue / 90/10	sod		8,175 sf	Non-netted Tall Fescue, by Park Avenue Turf, Inc, 1-800-734-8859, or approved equal. Fescue/bluegrass blend of 90%-10%.

TREE TO REMAIN

GENERAL PLANTING NOTES

1. IF A DISCREPANCY BETWEEN THESE PLANS AND ACTUAL ON-SITE CONDITIONS OCCURS, THE LANDSCAPE CONTRACTOR IS TO NOTIFY THE CITY IMMEDIATELY, BEFORE PROCEEDING WITH HIS WORK, FOR A DECISION.
2. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE CITY OF FREMONT STANDARDS.
3. ALL PLANTS BROUGHT ONTO THE SITE SHALL BE WATERED AND PROTECTED FROM EXCESSIVE WIND, SUN, FROST, PHYSICAL DAMAGE AND THEFT UNTIL PLANTED.
4. ALL ASPHALT, BASE COURSE AND OTHER DEBRIS ARE TO BE REMOVED COMPLETELY BELOW PLANTING AREAS TO NATIVE SOIL LEVEL.
5. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR POSITIVE SURFACE DRAINAGE AT 2% MINIMUM IN PLANTING AREAS EXCEPT WHERE SHOWN.
6. THE LANDSCAPE CONTRACTOR SHALL FURNISH AND APPLY THE APPROPRIATE PRE-EMERGENT HERBICIDE AT RATES PRESCRIBED BY LAW AND THE MANUFACTURER'S RECOMMENDATIONS. 'SURFLAN 75W' IS RECOMMENDED FOR GROUND COVER AND SHRUB AREAS. ALL PRE-EMERGENT HERBICIDES SHALL BE APPLIED BY LICENSED OPERATORS UNDER FAVORABLE WEATHER CONDITIONS.
7. ALL PLANTING AREAS SHALL BE ROTOTILLED (OR HAND CULTIVATED UNDER EXISTING TREES) TO A DEPTH OF 8". TAKE CARE NOT TO DAMAGE ROOTS. DO NOT ROTOTILL OR DISTURB GROUND UNDER TREE CANOPY WITHOUT DIRECTION FROM THE CITY.
8. THE LANDSCAPE CONTRACTOR TO BE RESPONSIBLE FOR OBTAINING A SOILS TEST FROM A SOIL TESTING LABORATORY, AND PROVIDE THE APPROPRIATE AMENDMENTS BASED ON THE TEST RESULTS. FOR PURPOSES OF BIDDING, THE FOLLOWING AMENDMENTS WILL BE USED (PER 1000 SQ. FT.):

   -4 YDS. CTA APPROVED GREENWASTE COMPOST
   -200 LBS GRO-POWER PLUS, OR EQUAL
   ROTOTILL AMENDMENTS TO A DEPTH OF 8" IN TWO DIRECTIONS.
9. FINISH GRADE OF PLANTED AREAS TO BE TWO (2) INCH BELOW PAVING. ALL PLANTS SHALL BE SET AT SUCH A LEVEL THAT AFTER SETTLING THEY BEAR THE SAME RELATIONSHIP TO THE SURROUNDING FINISH GRADE AS THEY BORE TO THE SOIL LINE GRADE IN THE CONTAINER, UNLESS OTHERWISE NOTED.
10. IT SHALL BE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE DRAINAGE OF ALL PLANTINGS, SUFFICIENT TO INSURE HEALTHY GROWTH.
11. ALL SHRUBS AND TREES TO HAVE FERTILIZER PAKS (20-10-5) OR EQUAL SET AT MIDPOINT OF BACKFILL. QUANTITY ACCORDING TO THE MANUFACTURER'S DIRECTIONS.

1 GALLON	2 PAKS
5 GALLON	3 PAKS
15 GALLON	5 PAKS
24" BOX	8 PAKS

12. COVER ALL PLANTING AREAS WITH A 3" DEPTH OF APPROVED BARK MULCH AFTER FINAL SHAPING OF SAUCERS AND DRESS OFF NEATLY.
13. AN AUTOMATIC IRRIGATION SYSTEM IS TO BE PROVIDED TO WATER ALL PLANTING AREAS. LANDSCAPE CONTRACTOR IS TO PROVIDE ADEQUATE COVERAGE FOR ALL INDICATED PLANTING AREAS PRIOR TO PLANT INSTALLATION.
14. TRIANGULAR SPACING FOR GROUND COVER PLANTING BEDS.

FOR CITY COUNCIL USE ONLY

0' 10' 20' 40'
SCALE: 1"=20'

LICENSED LANDSCAPE ARCHITECT ROBERT J. NORBUT No.5595 Signature Exp. 11/30/18 STATE OF CALIFORNIA
DATE SIGNED: 06/01/17

No.	Date	Revision	By
1			
2	10/17/16	CYCLE 3 PLAN CHECK	RJS
3	05/10/17	CYCLE 4 PLAN CHECK	MWK
4	10/31/17	RE-BID	
5			

CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD
PLANTING PLAN

CITY OF Fremont
COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed -- Associate Land. Arch.~~ | Date | Recommended -- Project Manager | Date

Scale:	1"=20'
Designed By:	RJN
Drawn By:	RJN
Date:	10/17/2014
Project No.:	8718 (PWC)
CAD File:	12203-L1.X.dwg
SHEET	34 OF 37

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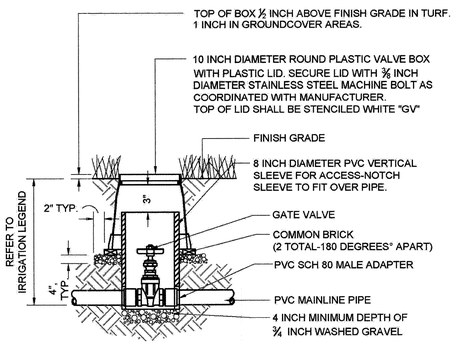
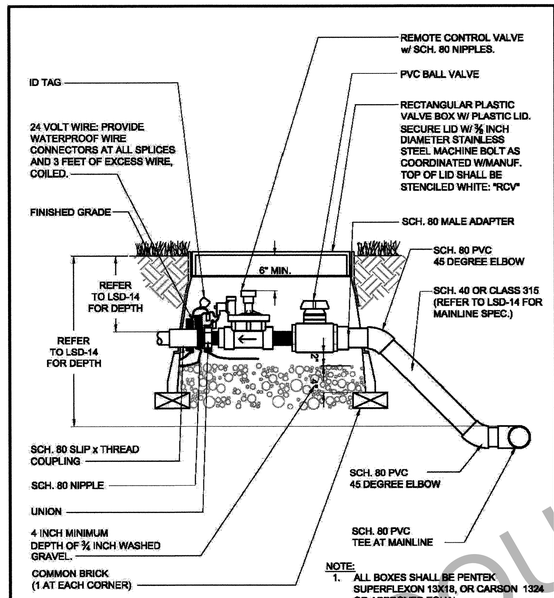


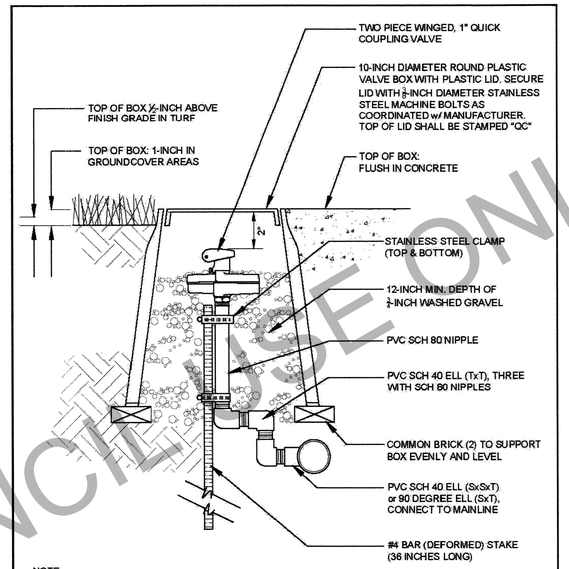
NOTE:
1. REFER TO CITY STANDARD DETAIL LSD-14 FOR ALL MATERIALS

			CITY OF FREMONT STANDARD DETAILS CITY STANDARD IRRIGATION GATE VALVE			DATE APPROVED BY CITY COUNCIL 04/11/06	
						RESOLUTION NO. 2006-31	
						CITY ENGINEER	
APPR	REVISED	DATE					
REVISIONS							
FILE NO. LSD-22.DWG	SCALE 1-1/2" = 1'-0"	DRAWN AK/MM/PM	CHECKED RER	DATE NOV. 2005	DWG NO. LSD-22		1 of 1



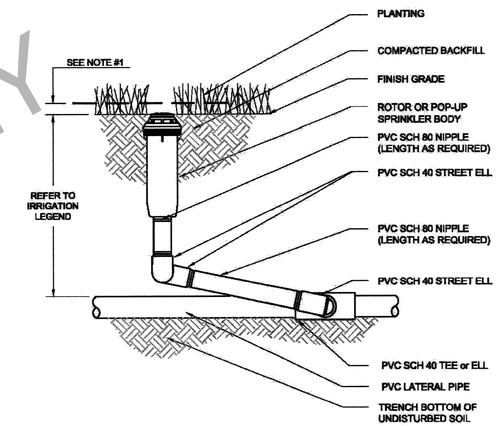
NOTE:
1. ALL BOXES SHALL BE PENTEK SUPERFLEXON 13X18, OR CARSON 1324 OR APPROVED EQUAL.
2. REFER TO CITY STANDARD DETAIL LSD-14 FOR ALL MATERIALS.

			CITY OF FREMONT STANDARD DETAILS CITY STANDARD IRRIGATION REMOTE CONTROL VALVE W/ GATE VALVE			DATE APPROVED BY CITY COUNCIL 12/13/11	
						RESOLUTION NO. 2006-31	
						CITY ENGINEER	
APPR	REVISED	DATE					
REVISIONS							
FILE NO. LSD-23.DWG	SCALE 1" = 1'-0"	DRAWN AK/MM/PM	CHECKED RER	DATE NOV. 2005	DWG NO. LSD-23		1 of 1



NOTE:
1. CONTRACTOR SHALL PROVIDE:
   (2) VALVE KEYS
   (2) SWIVEL HOSE-ELLS
2. ALL BOXES SHALL BE OFFSET 12-INCHES FROM ANY SIDEWALK, CURB &/or HEADER

			CITY OF FREMONT STANDARD DETAILS CITY STANDARD IRRIGATION QUICK COUPLING VALVE IN BOX			DATE APPROVED BY CITY COUNCIL 12/13/11	
	Council Revision	12/13/11				RESOLUTION NO. 2006-31	
	General Revision	06/07/10				CITY ENGINEER	
APPR	REVISED	DATE					
REVISIONS							
FILE NO. LSD-19.DWG	SCALE 3" = 1'-0"	DRAWN AK/MM/PM	CHECKED RER	DATE DEC. 2011	DWG NO. LSD-19		1 of 1



NOTE:
1. INSTALL TOP OF POP-UP SPRINKLER 1 INCH ABOVE FINISHED GRADE IN SHRUB AREAS AND FLUSH WITH GRADE IN TURF AREAS.
2. ROTORS SHALL BE INSTALLED FLUSH IN TURF AREAS.
3. REFER TO CITY STANDARD DETAIL LSD-14 FOR MATERIALS
4. INSTALL A MINIMUM OF 9" FROM EDGE OF PAVEMENT IN SHRUB AREAS AND 2" IN TURF AREAS.

			CITY OF FREMONT STANDARD DETAILS CITY STANDARD IRRIGATION ROTOR OR POP-UP			DATE APPROVED BY CITY COUNCIL 12/13/11	
						RESOLUTION NO. 2006-31	
						CITY ENGINEER	
APPR	REVISED	DATE					
REVISIONS							
FILE NO. LSD-21.DWG	SCALE NONE	DRAWN AK/MM/PM	CHECKED RER	DATE NOV. 2005	DWG NO. LSD-21		1 of 1

FOR CITY COUNCIL USE ONLY

LICENSED LANDSCAPE ARCHITECT
ROBERT J. NORBUT
No. 5595
Signature
Exp. 11/30/18
STATE OF CALIFORNIA
DATE SIGNED: 06/01/17

No.	Date	Revision	By
1			
2	10/17/16	CYCLE 3 PLAN CHECK	RJS
3	05/10/17	CYCLE 4 PLAN CHECK	MWK
4	10/31/17	RE-BID	
5			

CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

LANDSCAPE DETAILS I

CITY OF Fremont
COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed -- Associate Land. Arch.~~ | Date | Recommended -- Project Manager | Date

Scale:	NONE
Designed By:	RJN
Drawn By:	RJN
Date:	10/17/2014
Project No.:	8718 (PWC)
CAD File:	12203-L1.X.dwg
SHEET 35 OF 37	

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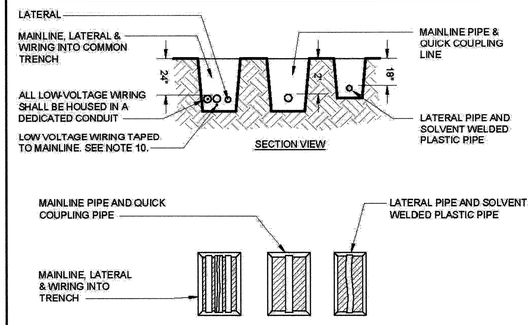


NOTES:

1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH CLASS 315 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE CONDUIT WITHIN; BURIAL DEPTH FOR SLEEVES BELOW FINISHED GRADE ARE AS FOLLOWS:
   - 42 INCH MINIMUM UNDER THOROUGHFARE AND STREETS
   - 24 INCH MINIMUM UNDER PLANTER AREA
   - 24 INCH MINIMUM UNDER PARKING LOT
   - 18 INCH MINIMUM UNDER SIDEWALK
   - 36 INCH MINIMUM UNDER TRAFFIC CIRCLES (RESIDENTIAL AREAS)
2. ALL SLEEVE BELOW HARDSCAPE SHALL EXTEND 24 INCHES BEYOND HARD SURFACE EDGES.
3. FOR PIPE AND WIRE BURIAL DEPTHS, SEE SPECIFICATIONS, MAINLINE SHALL HAVE MINIMUM COVER OF 24 INCHES, LATERAL SHALL HAVE MINIMUM COVER OF 18 INCHES.
4. SCH 40 PVC FOR MAINLINE 2 INCHES OR SMALLER.
5. CLASS 315 PVC FOR MAINLINE 2 1/2 INCHES AND LARGER.
6. CLASS 200 PVC FOR 2 INCH LATERAL LINES AND SMALLER.
7. SCH 40 PVC FOR QUICK COUPLING LINE 1 INCH MIN. TO 2 INCH MAXIMUM
8. TRENCH BACKFILL SHALL BE NATIVE MATERIAL, COMPACT TO 90% MINIMUM, RELATIVE COMPACTION UNLESS UNDER CONCRETE OR ASPHALT. USE TRENCH BACKFILL PER CITY SPECIFICATION 11A AND 11B UNDER CONCRETE OR ASPHALT.
9. REFER TO DETAIL LSD-14 FOR IRRIGATION MATERIALS LIST.
10. IF APPROVED IN WRITING FROM THE CITY'S LANDSCAPE ARCHITECT, CONTROL WIRE MAY BE INSTALLED WITHOUT CONDUIT. INSTEAD, RUN WIRING BENEATH MAINLINE. TAPE AND BUNDLE AT 10 FOOT INTERVALS. TIE A 24 INCH LOOP IN ALL WIRING AT CHANGES OF DIRECTION OF 30 INCHES OR GREATER. UNTIE AFTER ALL CONNECTIONS HAVE BEEN MADE.

APPR	REVISED	DATE
	Council Revision	12/13/11

REVISIONS

CITY OF FREMONT
STANDARD DETAILS
CITY STANDARD
IRRIGATION TRENCH

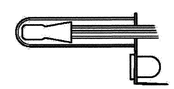
DATE APPROVED BY CITY COUNCIL 12/13/11
RESOLUTION NO. 2006-31
CITY ENGINEER

FILE NO.	SCALE	DRAWN	CHECKED	DATE	DWG NO.	
LSD-18.DWG	1/4" = 1'-0"	AK/MM/PM	RER	DEC. 2011	LSD-18	1 of 1

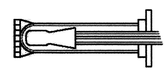
STEP 1: STRIP WIRES ½ INCH FROM ENDS.

STEP 2: APPLY SCOTCHLOK Y SPRING CONNECTOR IN A CLOCKWISE DIRECTION.

STEP 3: INSERT SPLICE FILLED TO BOTTOM OF GEL-FILLED TUBE, CHECK TO MAKE SURE CONNECTOR HAS BEEN PUSHED PAST LOCKING FINGERS AND IS SEATED AT BOTTOM OF TUBE.



STEP 4: POSITION WIRES IN WIRE CHANNELS AND CLOSE INSULATOR TUBE COVER.



NOTE:
1. **MAXIMUM WIRE SIZES PER CONNECTOR ARE 3-#14'S OR 2-#12'S**
2. **REFER TO CITY STANDARD DETAIL LSD-14 FOR MATERIALS**

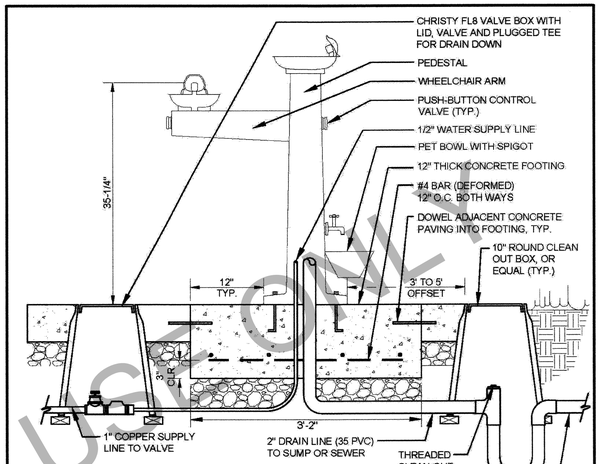
APPR	REVISED	DATE

REVISIONS

CITY OF FREMONT
STANDARD DETAILS
CITY STANDARD
IRRIGATION WIRE SPLICE

DATE APPROVED BY CITY COUNCIL 12/13/11
RESOLUTION NO. 2006-31
CITY ENGINEER

FILE NO.	SCALE	DRAWN	CHECKED	DATE	DWG NO.	
LSD-20.DWG	NONE	AK/MM/PM	RER	NOV. 2005	LSD-20	1 of 1



MANUFACTURER/MODEL:
1. ~~MURDOCK, M-23 OR M-23-2 PF (W/ PET BOWL), OR APPROVED EQUAL~~
2. ~~MOST DEPENDABLE FOUNTAINS, 440 OR 440DB(W/ PET BOWL), OR APPROVED EQUAL~~
~~COLOR: FAIRWAY GREEN EG14, GREEN, OR APPROVED EQUAL~~

NOTES:
1. DRINKING FOUNTAIN TO PROVIDE FLOW OF WATER AT LEAST 4" HIGH TO ALLOW INSERTION OF CUP OR GLASS UNDER FLOW OF WATER.
2. INSTALL WATER AND WASTE CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.
3. INSTALL ADDITIONAL GATE VALVE AT THE POINT OF CONNECTION, IF GREATER THAN 10 FEET WAY, TO CONTROL ON/OFF OF FLOW CLOSER TO THE SOURCE.
4. CLEAN OUT AND P-TRAP SHALL BE INSTALLED TO THE INVERT DEPTHS AS DESCRIBED ON THE PLANS.
5. SURROUNDING CONCRETE SHALL BE SLOPED TO DRAIN, NOT TO EXCEED 2% IN ANY DIRECTION.

0 3" 6" 1' 2'
SCALE: 1" = 1'-0"

APR.	REVISED	DATE

REVISIONS

CITY OF FREMONT
PARK STANDARD DETAILS
DRINKING FOUNTAIN

DATE APPROVED BY CITY COUNCIL December 13, 2011
RESOLUTION NO. 2011-65
SENIOR LANDSCAPE ARCHITECT
COMMUNITY SERVICES DIRECTOR

FILE NO.	SCALE	DRAWN	CHECKED	DATE	DWG NO.	
PSD SF-1.DWG	1" = 1'-0"	AM	RER	03/09/2011	PSD SF-1	1 OF 1

NOTE: CITY WILL PROVIDE BOLT TEMPLATE AND DRINKING FOUNTAIN WILL BE CITY FURNISHED

FOR CITY COUNCIL USE ONLY

LICENSED LANDSCAPE ARCHITECT
ROBERT J. NORBUTAS
No.5595
Signature
Exp. 11/30/18
STATE OF CALIFORNIA
DATE SIGNED: 06/01/17

No.	Date	Revision	By
1			
2	10/17/16	CYCLE 3 PLAN CHECK	RJS
3	05/10/17	CYCLE 4 PLAN CHECK	MWK
4	10/31/17	RE-BID	
5			

CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

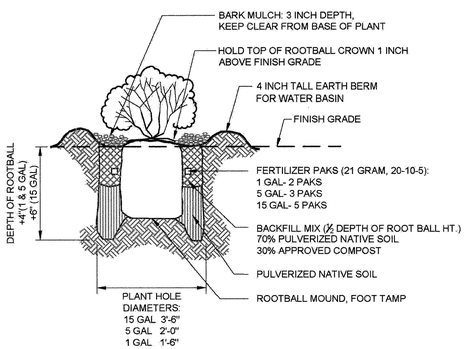
LANDSCAPE DETAILS II

CITY OF Fremont
COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed~~ ~~Associate Land. Arch.~~ | Date | Recommended -- Project Manager | Date

Scale:	NONE
Designed By:	RJN
Drawn By:	RJN
Date:	10/17/2014
Project No.:	8718 (PWC)
CAD File:	12203-L1.X.dwg
SHEET	36 OF 37

L3.1



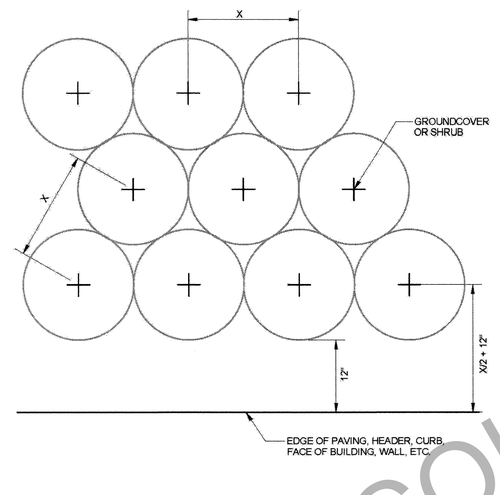
APPR	REVISED	DATE

REVISIONS

CITY OF FREMONT
STANDARD DETAILS
CITY STANDARD
SHRUB AND GROUNDCOVER
PLANTING

DATE APPROVED BY CITY COUNCIL 04/11/06
RESOLUTION NO. 2006-31
CITY ENGINEER

FILE NO.	SCALE	DRAWN	CHECKED	DATE	DWG NO.	
LSD-3.DWG	3/4" = 1'-0"	PM/MM/AK	RER	NOV. 2005	LSD-3	1 of 1



NOTE:
1. 'X' IS GROUNDCOVER AND SHRUB SPACING PER THE LANDSCAPE PLAN, PLANT LIST, AND LEGEND.
2. KEEP MULCH CLEAR OF PLANT BASE (SEE LSD-3 & LSD-12)

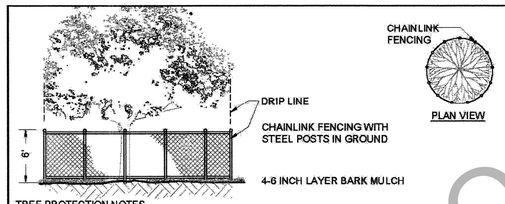
APPR	REVISED	DATE
	Council Revision	12/13/11
	General Revision	03/17/11

REVISIONS

CITY OF FREMONT
STANDARD DETAILS
CITY STANDARD
SHRUB AND GROUNDCOVER
PLANTING LAYOUT

DATE APPROVED BY CITY COUNCIL 12/13/11
RESOLUTION NO. 2006-31
CITY ENGINEER

FILE NO.	SCALE	DRAWN	CHECKED	DATE	DWG NO.	
LSD-4.DWG	1" = 1'-0"	PM/MM	RER	DEC. 2011	LSD-4	1 of 1



TREE PROTECTION NOTES

1. CURRENT STANDARD DETAIL AT CITY ENGINEERING DIVISION SHALL PREVAIL.
2. TREE PROTECTION MEASURES MUST BE IN PLACE BEFORE CONSTRUCTION, DEMOLITION AND/OR GRADING ACTIVITIES COMMENCE. CITY OF FREMONT WILL STOP CONSTRUCTION IF TREE PROTECTION MEASURES ARE NOT IN PLACE AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
3. TREES CALLED OUT FOR PRESERVATION SHALL BE FENCED AT THE DRIPLINE. FENCING MAY OCCUR AT THE COMBINED DRIPLINES OF GROVES OF TREES. PLACE 4-6 INCH BARK MULCH BENEATH DRIPLINES OF TREES TO BE PRESERVED. KEEP BARK 2-3 FEET FROM TREE TRUNK.
4. FENCING SHALL BE 6 FEET TALL CHAIN LINK FENCING WITH STEEL POSTS EMBEDDED IN THE GROUND.
5. NO GRADING SHALL OCCUR WITHIN THE DRIPLINES/FENCED AREA OF EXISTING TREES.
6. NO CONSTRUCTION MATERIALS OR CONSTRUCTION VEHICLES MAY BE STORED WITHIN THE DRIPLINES/FENCED AREA OF EXISTING TREES.
7. CONSTRUCTION VEHICLES OR MACHINERY MAY NOT PASS BETWEEN TWO OR MORE EXISTING TREES IDENTIFIED FOR PRESERVATION IF THEIR CANOPIES ARE WITHIN 10 FEET OF TOUCHING. ADDITIONAL FENCING MAY BE REQUIRED BY THE CITY AS NEEDED.
8. THE CONTRACTOR IS REQUIRED TO HAVE AN ARBORIST CERTIFIED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA), APPROVED BY THE CITY, ON SITE IF SITE CONSTRUCTION EFFORTS REQUIRE REMOVAL OF EXISTING ROOTS OR BRANCH PRUNING. ROOTS APPROVED FOR CUTTING MUST BE CUT CLEANLY WITH A SAW. RIPPING OR SHREADING ROOTS SUBJECT TO FINE/PENALTY.
9. UNAUTHORIZED TREE REMOVAL IS SUBJECT TO REPLACEMENT EQUAL TO THE APPRAISED VALUE OF THE TREE LOST PER FMC 4-5108.
10. THE CONTRACTOR IS REQUIRED TO WATER, FERTILIZE AND ATTEND TO OTHER MAINTENANCE NEEDS OF EXISTING TREES TO MAINTAIN HEALTHY GROWTH THROUGHOUT THE CONSTRUCTION PERIOD. AN EARTH BERM MEASURING MINIMUM 6 FEET IN DIAMETER, AND 6 INCHES IN HEIGHT SHALL BE CONSTRUCTED AT THE BASE OF EACH TREE TO FUNCTION AS A TEMPORARY WATERING BASIN DURING THE CONSTRUCTION PERIOD. TREES SHALL BE WATERED ACCORDING TO WEATHER AND TREE SPECIES REQUIREMENTS.
11. IF TREES ARE BEING RELOCATED: RELOCATION OF EXISTING TREES SHALL OCCUR UNDER THE OBSERVATION AND DIRECTION OF A CERTIFIED ARBORIST APPROVED BY THE CITY OF FREMONT.
12. TRUNK WRAP PROTECTION SHALL OCCUR FOR TREES SITUATED IN SMALL TREE WELLS OR SIDEWALK PLANTERS. THIS FORM OF PROTECTION WILL BE ALLOWED BY APPROVAL FROM SENIOR LANDSCAPE ARCHITECT ONLY. REFER TO LSD-10.

APPR	REVISED	DATE
	Council Revision	12/13/11

REVISIONS

CITY OF FREMONT
STANDARD DETAILS
CITY STANDARD
TREE PROTECTION FENCING

DATE APPROVED BY CITY COUNCIL 12/13/11
RESOLUTION NO. 2006-31
CITY ENGINEER

FILE NO.	SCALE	DRAWN	CHECKED	DATE	DWG NO.	
LSD-9.DWG	1/8" = 1'-0"	PM/MM	RER	DEC. 2011	LSD-9	1 of 1

FOR CITY COUNCIL ONLY

LICENSED LANDSCAPE ARCHITECT
ROBERT J. NORBUTAS
No.5595
Signature
Exp. 11/30/18
STATE OF CALIFORNIA
DATE SIGNED: 06/01/17

No.	Date	Revision	By
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2	10/17/16	CYCLE 3 PLAN CHECK	RJS
3	05/10/17	CYCLE 4 PLAN CHECK	MWK
4	10/31/17	RE-BID	
5			

CENTRAL PARK
"ALWAYS DREAM" RESTROOM REPLACEMENT AT FABBRI FIELD

LANDSCAPE DETAILS III

CITY OF Fremont
COMMUNITY SERVICES DEPARTMENT
LANDSCAPE ARCHITECTURE

~~Reviewed -- Associate Land. Arch.~~ | Date | Recommended -- Project Manager | Date

Scale:	NONE
Designed By:	RJN
Drawn By:	RJN
Date:	10/17/2014
Project No.:	8718 (PWC)
CAD File:	12203-L1.X.dwg
SHEET	37 OF 37

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