TRANSBAY TOWER: 101 1ST STREET

ISSUED FOR GMP

CITY OF SAN FRANCISCO

0

SAN FRANCISCO COUNTY

STATE OF CALIFORNIA

SYMBOL LEGEND **DESCRIPTION** DETAIL NO. 3 ON SHEET C8.00 DETAIL SECTION A ON SHEET C6.00 **LEGEND PROPOSED** BOUNDARY CONCRETE CURB AND GUTTER ELECTRIC COMBINED SEWER STORM DRAIN WATER LINE STORM WATER INLET (SWI) SEWER MAN HOLE LOW PRESSURE FIRE HYDRANT HIGH PRESSURE FIRE HYDRANT FIRE DEPARTMENT CONNECTION WATER VALVE TREE PLANTING AREA (10'X10') LANDSCAPE LIGHT AWSS VALVE BENCHMARK BOLLARD CLEANOUT COMBINED SYSTEM MANHOLE DROP INLET ELECTRIC MANHOLE HIGH PRESSURE (AWSS) FIRE HYDRANT LOW PRESSURE FIRE HYDRANT



SAN FRANCISCO MUNICIPAL TRANSPORTATION

AGENCY (SFMTA) POLE

TELECOMMUNICATIONS MANHOLE

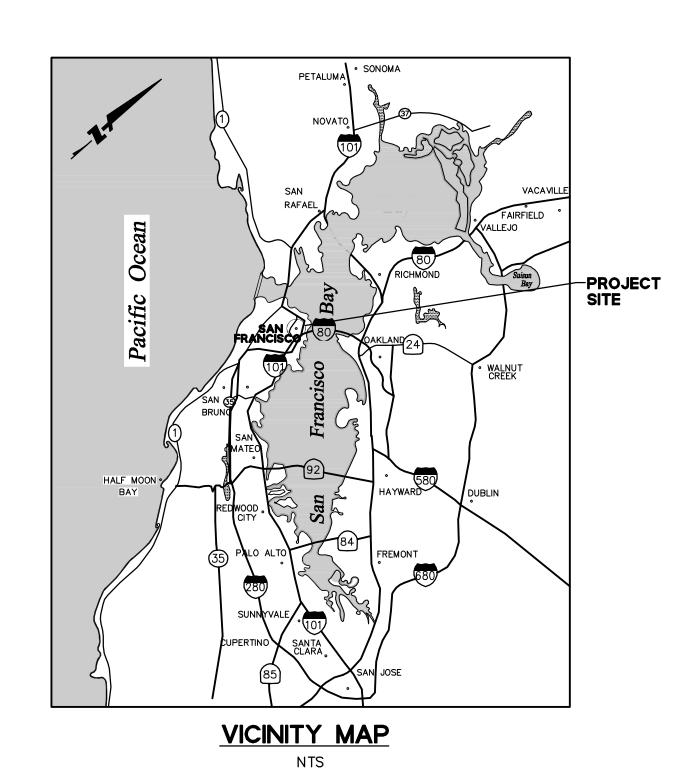
STREET LIGHT

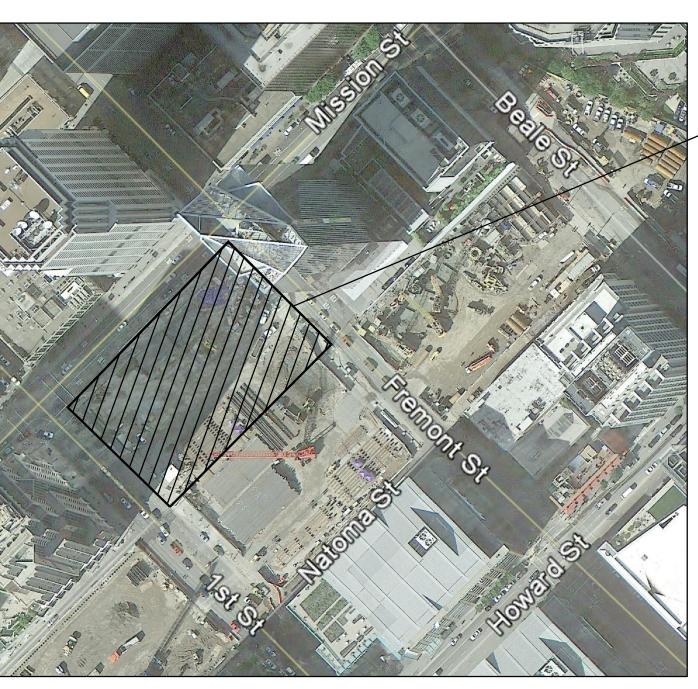
STREET LIGHT BOX

TRAFFIC SIGNAL BOX

TRAFFIC SIGNAL HEAD

1. IF SELECTED, IN LIEU OF PROVIDING 316 BRUSHED STAINLESS STEEL SLEEVES FOR SIDEWALK SECURITY BOLLARDS, PROVIDE A POWDER COATED WHITE PAINT FINISH. FINAL COLOR SPECIFICATION TO BE SELECTED BY LANDSCAPE ARCHITECT TO MATCH BUILDING SCHEME.





LOCATION MAP

DATUM

DATUM: SAN FRANCISCO CITY DATUM

BASIS OF BEARINGS

THE SOUTHERLY LINE OF MISSION STREET BETWEEN FIRST AND FREMONT STREETS IS TAKEN TO BE N46°18'10"E AS SHOWN ON RECORD OF SURVEY NO. 6428.

BENCHMARK

ALL ELEVATIONS SHOWN HEREON ARE BASED UPON THE CITY & COUNTY OF SAN FRANCISCO'S DATUM. SPECIFICALLY, A FOUND CROW CUT OUTER RIM SWI LOCATED AT THE NE CORNER OF THE INTERSECTION OF MISSION AND 1ST ST. HAVING AN ELEVATION OF 4.244 FEET.

TO CONVERT TO NAVD 88 DATUM, ADD 11.35 FEET. NAVD 88 BENCHMARK - A FOUND C&A MAG NAIL & WASHER IN THE TOP OF CURB LOCATED AT THE SE CURB RETURN OF HOWARD AND 2nd ST. HAVING AN ELEVATION OF 25.36 FEET.

SURVEY NOTE

THE UTILITIES EXISTING ON THE SURFACE AND SHOWN ON THIS DRAWING HAVE BEEN LOCATED BY FIELD SURVEY. ALL UNDERGROUND UTILITIES SHOWN ON THIS DRAWING ARE FROM RECORDS OF THE VARIOUS UTILITY COMPANIES AND THE SURVEYOR AND ENGINEER DO NOT ASSUME RESPONSIBILITY FOR THEIR COMPLETENESS, INDICATED LOCATION OR SIZE. RECORD UTILITY LOCATION SHOULD BE CONFIRMED BY EXPOSING THE UTILITY. DUE TO THE PROLIFERATION OF TELECOMMUNICATION COMPANIES, NOT ALL UNDERGROUND RECORDS ARE AVAILABLE. THEREFORE, THERE MAY BE TELECOMMUNICATION LINES NOT SHOWN HEREON.

SPECIFICATIONS

THE WORK SHOWN IN THE PUBLIC ROW SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY & COUNTY OF SAN FRANCISCO STANDARD SPECIFICATIONS, 2000 EDITION.

<u>ABBRE</u>	<u>VIATIONS</u>	SHEET INDEX				
<u>SYMBOL</u>	<u>DESCRIPTION</u>	SHEET NO.	DESCRIPTION			
AC A A WS G G G G G G G G G G G G G G G G G G	ASPHALTIC CONCRETE ASSESSORS PARCEL NUMBER AUXILIARY WATER SUPPLY SYSTEM BUILDING BUILDING CORNER BOLLARD BACK OF WALK CABLE TELEVISION CATCH BASIN CENTERLINE CHAIN LINK FENCE COMMUNICATION CONTROL CONCRETE CORNER COMBINED SYSTEM COMBINED SYSTEM MANHOLE DROP INLET DRIVEWAY ELECTRICAL ELECTRIC BOX ELECTRIC BOX ELECTRIC MANHOLE EDGE OF PAVEMENT EXISTING EACH WAY FIRE ALARM FIRE DEPARTMENT CONNECTION FINISH FLOOR FLOW LINE FENCE FOUND GAS LINE GROUND SHOT GUARD RAIL GST TELECOM GATE VALVE GAS VAULT HETCH HETCHY HIGH PRESSURE (AWSS) FIRE HYDRANT HIGH PRESSURE GAS HIGH VOLT ELECTRICAL INTERCONNECT BOX LEVEL 3 COMMUNICATIONS LLC LIP OF GUTTER LOW PRESSURE FIRE HYDRANT	C0.00 C0.10 C1.00 C1.10 C2.00 C2.10 C2.20 C3.00 C3.10 C4.00 C4.10 C5.00 C5.10 C5.20 C6.00 C6.10 C6.20 C7.00 C7.10 C8.00 C8.10 C8.20 C8.30 C8.40 SL1 SL2	TITLE SHEET NOTE SHEET EXISTING CONDITIONS PLAN (WEST) EXISTING CONDITIONS PLAN (EAST) DEMOLITION PLAN (WEST) DEMOLITION PLAN (EAST) DEMOLITION SCHEDULE HORIZONTAL CONTROL PLAN (WEST) HORIZONTAL CONTROL PLAN (EAST) GRADING PLAN (WEST) GRADING PLAN (EAST) UTILITY PLAN (EAST) UTILITY PLAN (EAST) UTILITY PLAN SCHEDULE SIDEWALK SECTIONS STREET PAVING SECTIONS LONGITUDINAL SIDEWALK SECTIONS EROSION CONTROL PLAN EROSION CONTROL NOTES AND DETAILS DETAILS DETAILS DETAILS DETAILS STREET LIGHTING TITLE SHEET STREET LIGHTING SITE PLAN			

SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY

MCI INC. (VERIZON)

OVERHEAD ELECTRICAL

METROMEDIA FIBER NETWORK

MFS COMMUNICATIONS COMPANY INC.

MANHOLE

MONUMENT

OVER

OHE

NEWS STAND

ON CENTER

OVERHEAD

PB PULL BOX PACIFIC GAS & ELECTRIC PROPERTY LINE POWER POLE PROPOSED QWEST COMMUNICATIONS COMPANY LLC RCP REINFORCED CONCRETE PIPE RD RIGHT-OF-WAY SEE ARCHITECTURAL PLANS SD STORM DRAIN STORM DRAIN DROP INLET SEE ELECTRICAL PLANS SAN FRANCISCO FIRE DEPARTMENT SFMTA SAN FRANCISCO MUNICIPAL TRANSIT AGENCY SFPUC SAN FRANCISCO PUBLIC UTILITIES COMMISSION SFWD SAN FRANCISCO WATER DISTRICT SIGNAL STREET LIGHT SEE LANDSCAPE PLANS SEE PLUMBING PLANS SEE STRUCTURAL PLANS SIGNAL VAULT SIDEWALK TELECOMMUNICATIONS TELECOMMUNICATIONS BOX TELEPORT COMMUNICATIONS GROUP TOP OF CURB/FACE OF CURB TRANSBAY JOINT POWER AUTHORITY TRAFFIC SIGNAL UTILITY BOX UNLESS OTHERWISE NOTED WATER WATER BOX WATER METER WATER VALVE **ENGINEER'S STATEMENT**



THESE PLANS HAVE BEEN PREPARED BY ME OR UNDER MY DIRECTION IN ACCORDANCE WITH STANDARD ENGINEERING PRACTICE.



PRINCIPAL/VICE PRESIDENT BKF ENGINEERS

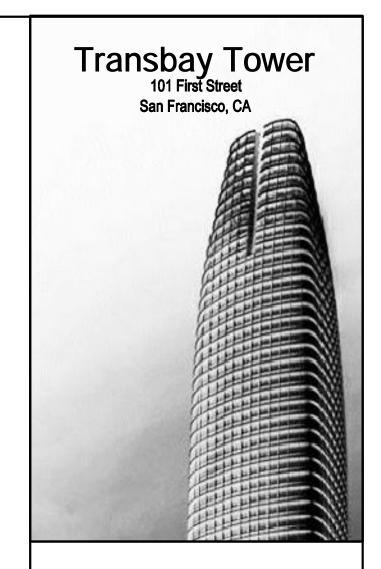


THESE PLANS HAVE BEEN PREPARED BY ME OR UNDER MY DIRECTION IN ACCORDANCE WITH STANDARD ENGINEERING PRACTICE.

SIMON R. NORTH, P.E. PROJECT MANAGER BKF ENGINEERS

DATE

DATE



BOSTON PROPERTIES / HINES

PELLI CLARKE PELLI ARCHITECTS

KENDALL/HEATON ASSOCIATES, INC.

MAGNUSSON KLEMENCIC ASSOCIATES

MEPFP Engineer

PWP LANDSCAPE ARCHITECTURE

BKF ENGINEERS Civil Engineer

PERSOHN/HAHN ASSOCIATES, INC. Elevator Consultant

AON FIRE PROTECTION ENGINEERING

HLB LIGHTING DESIGN, INC.

Geotechnical Consultant

CERAMI AND ASSOCIATES, INC.

Acoustical Consultant

MORRISON HERSHFIELD Curtain Wall Consultant

ENVIRONMENTAL BUILDING STRATEGIES

HMA CONSULTING Building Management and Controls Engineer

C.S. CAULKINS CO., INC. Window Washing Consultant

ENGINEERING SPECIALTIES GROUP

Aerial Tram Consultant

Graphic Design Consultant **ROYSTON HANAMOTO ALLEY & ABEY**

DEBRA NICHOLS DESIGN

Landscape Architect of Record

7 02 MAY 14 GMP 6 10 FEB 14 BID ADDENDUM #2

5 16 DEC 13 BID AND ADDENDUM #3 PERMIT 4 18 DEC 13 RESPONSE TO COMMENTS 3 29 OCT 13 STREET IMPROVEMENT PERMIT

PIPE BARRIER PERMIT SIDEWALK WIDENING PROCESS 2 06 MAY 13 SITE PERMIT REVISION NO. 2 1 11 MAR 13 SITE PERMIT NO. DATE

DRAWING TITLE

Sheet

PROJECT NO. 08044

RAWING NUMBER

GENERAL NOTES

- 1. THE WORK SHOWN ON THESE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY AND COUNTY OF SAN FRANCISCO STANDARD PLANS & SPECIFICATIONS. 2000 EDITION.
- 2. IT SHALL BE UNDERSTOOD THAT THE TERM "CITY ENGINEER" AS USED HEREIN IS THE CITY ENGINEER OF THE CITY OF SAN FRANCISCO OR HIS AUTHORIZED REPRESENTATIVE.
- 3. THE CONTRACTOR SHALL GIVE THE CITY ENGINEER TWO (2) WORKING DAYS ADVANCE NOTICE FOR INSPECTION SERVICES.
- 4. ALL REVISIONS TO THESE PLANS MUST BE REVIEWED AND APPROVED IN WRITING BY THE DESIGN ENGINEER PRIOR TO CONSTRUCTION OF AFFECTED ITEMS, REVISIONS SHALL BE ACCURATELY SHOWN ON REVISED PLANS
- 5. THE CONTRACTOR SHALL PROVIDE DUST CONTROL FOR THE ENTIRE PROJECT SITE AT ALL TIMES. THE SITE SHALL BE SPRINKLED AS NECESSARY TO PREVENT DUST NUISANCE. INCREASED WATERING SHALL BE REQUIRED WHEN WIND SPEEDS EXCEED 10 MPH OR WHEN DIRECTED BY THE CITY. IN THE EVENT THE CONTRACTOR NEGLECTS TO USE ADEQUATE MEASURES TO CONTROL DUST, THE CITY RESERVES THE RIGHT TO TAKE WHATEVER MEASURES ARE NECESSARY TO CONTROL DUST AND CHARGE THE COST TO THE CONTRACTOR.
- 6. NO PERSON SHALL, WHEN HAULING ANY EARTH, SAND, GRAVEL, DEBRIS, PAPER, OR ANY OTHER SUBSTANCE OVER ANY PUBLIC STREETS OR OTHER PUBLIC PLACE, ALLOW MATERIAL TO BLOW OR SPILL OVER AND UPON SAID PUBLIC OR ADJACENT PRIVATE PROPERTY. ALL LOADS LEAVING THE SITE SHALL BE COVERED.
- 7. THE CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION DRIVES TO PREVENT THE TRACKING OF SOIL, DUST, MUD, OR CONSTRUCTION DEBRIS ON PUBLIC STREETS.
- 8. DURING CONSTRUCTION, THE PUBLIC STREETS SHALL BE CLEANED AS OFTEN AS REQUIRED TO REMOVE ANY ACCUMULATION OF MUD AND DEBRIS RESULTING FROM THIS CONSTRUCTION. IF IMPORT OR EXPORT OF DIRT IS NECESSARY, THE CONTRACTOR SHALL OBTAIN AN APPROVAL FOR THE HAULING ROUTE FROM THE CITY IF REQUIRED.
- 9. THE HAULING ROUTES SHALL BE STRICTLY ADHERED TO BY THE CONTRACTOR AND ALL SUBCONTRACTORS.
- 10. SHOULD IT APPEAR THAT THE WORK TO BE DONE OR ANY MATTER RELATIVE THERETO IS NOT SUFFICIENTLY DETAILED OR SPECIFIED IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER, BKF ENGINEERS AT (650) 482-6300, BEFORE PROCEEDING WITH THE WORK IN QUESTION.
- 11. WHEN SPECIFICATIONS OR STANDARDS FROM DIFFERENT AUTHORITIES DIFFER FOR THE SAME SUBJECT MATTER, THE MOST STRINGENT SHALL GOVERN UNLESS OTHERWISE NOTED.
- 12. UPON SATISFACTORY COMPLETION OF THE WORK, THE ENTIRE WORK SITE SHALL BE CLEANED UP AND LEFT WITH A SMOOTH AND NEATLY GRADED SURFACE FREE OF CONSTRUCTION WASTE AND RUBBISH OF ANY NATURE BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY OF SAN FRANCISCO.
- 13. ALL CONSTRUCTION STAKING SHALL BE DONE BY A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA. UPON COMPLETION OF GRADING, THE CONTRACTOR SHALL REQUEST THE LICENSED LAND SURVEYOR TO CHECK THE GRADES AND CERTIFY THAT THE PADS ARE GRADED TO WITHIN ± 0.10 FOOT OF FINISH PAD GRADE.
- 14. CONTRACTOR SHALL OBTAIN RIGHT OF ENTRY FROM ADJACENT PROPERTY OWNERS FOR WORK WITHIN ADJACENT PROPERTIES.
- 15. CONTRACTOR SHALL ARRANGE FOR REQUIRED INSPECTIONS BY THE CITY ENGINEER. NO DELAY OF WORK CLAIM WILL BE ALLOWED DUE TO CONTRACTOR'S FAILURE TO ARRANGE FOR REQUIRED CITY INSPECTIONS IN ADVANCE. CONTRACTOR SHALL PROVIDE NOTICE TO CITY ENGINEER A MINIMUM OF 2 WORKING DAYS IN ADVANCE OF REQUIRED INSPECTIONS.
- 16. THE CONTRACTOR SHALL RESTORE ALL WALLS, FENCES, SERVICES, UTILITIES, PAVEMENT & CURB MARKINGS IMPROVEMENTS OR FEATURES OF WHATEVER NATURE WHICH ARE DAMAGED DUE TO THE CONTRACTOR'S WORK TO THEIR PREVIOUS CONDITION.
- 17. EXISTING PEDESTRIAN WALKWAYS, BIKEPATHS AND HANDICAP ACCESS PATHWAYS SHALL BE MAINTAINED DURING CONSTRUCTION TO THE SATISFACTION OF THE CONSTRUCTION MANAGER.
- 18. IF TEMPORARY LANE CLOSURES ARE REQUIRED FOR CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN AND OBTAIN APPROVAL FROM THE CITY ENGINEER BEFORE COMMENCING WORK. THE CONTRACTOR SHALL ALSO PROVIDE FLAG MEN, CONES OR BARRICADES, AS NECCESSARY TO CONTROL TRAFFIC AND PREVENT HAZORDOUS CONDITIONS, PER CALTRANS STANDARDS.
- 19. EXISITING PEDESTRIAN WALKWAYS, BIKE PATHS AND HANDICAP ACCESS PATHWAYS SHALL BE MAINTAINED DURING CONSTRUCTION TO THE SATISFACTION OF THE CITY ENGINEER AND INSPECTOR.
- 20. IF PREHISTORIC OR HISTORIC—PERIOD CULTURAL MATERIALS ARE UNEARTHED DURING GROUND—DISTURBING ACTIVITIES, STOP WORK AND NOTIFY CITY ENGINEER FOR DIRECTION ON HOW TO PROCEED.

EXISTING CONDITIONS

- 1. EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED ON A ALTA BOUNDARY SUVEY BY MARTIN M. RON ASSOCIATES DATED 3/5/12 AND TOPOGRAPHIC SURVEY BY BKF ENGINEERS DATED 02/25/13 TO 04/04/13. GRADES ENCOUNTERED ON—SITE MAY VARY FROM THOSE SHOWN.CONTRACTOR SHALL REVIEW THE PLANS AND SPECIFICATIONS AND CONDUCT FIELD VESTIGATIONS AS REQUIRED TO VERIFY EXISTING CONDITIONS AT THE PROJECT
- 2. INFORMATION REGARDING EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES SHOWN ON THESE PLANS WAS TAKEN FROM RECORD DATA KNOWN TO THE DESIGN ENGINEER AND IS NOT MEANT TO BE A FULL CATALOG OF EXISTING CONDITIONS. CONTRACTOR SHALL CONDUCT FIELD INVESTIGATIONS AS REQUIRED TO VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES (WHETHER SHOWN ON THESE PLANS OR NOT) PRIOR TO THE COMMENCEMENT OF WORK. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS IN THE FIELD AND INFORMATION SHOWN ON THESE PLANS.
- 3. ELEVATIONS AND LOCATIONS OF ALL EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO START OF ANY CONSTRUCTION AFFECTING SAID LINES.
- 4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THE EXISTENCE OF ANY AND ALL UNDERGROUND FACILITIES, WHICH MAY BE SUBJECT TO DAMAGE BY REASON OF HIS OPERATIONS. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT (800) 227—2600, 48 HOURS PRIOR TO ANY EXCAVATION. WORK SHALL START WITHIN 5 DAYS AFTER THE ISSUANCE OF A USA INQUIRY IDENTIFICATION NUMBER. COMPLETE REMOVAL OF THE USA MARKINGS SHALL BE WITHIN 2 WORKING DAYS AFTER COMPLETION OF THE EXCAVATION, BACKFILL AND SURFACE REPLACEMENT OR FOURTEEN (14) CALENDAR DAYS FOLLOWING THE ISSUANCE OF THE INQUIRY IDENTIFICATION NUMBER, WHICHEVER IS EARLIER.
- 5. CONTACTING USA DOES NOT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY TO DETERMINE LOCATION AND DEPTH OF BURIED UTILITIES OR REPAIR OF BURIED UTILITIES DAMAGED BY HIS

GRADING

- ALL GRADING WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE NOTES AND THE REQUIREMENTS AND RECOMMENDATIONS CONTAINED IN THE SOILS REPORT.
- 2. REFER TO SOILS REPORT TITLED "BOSTON PROPERTIES/HINES TRANSBAY TOWER GEOTECHNICAL DATA REPORT DATED APRIL 25,
 - ALSO REFER TO DRAFT SITE MITIGATION PLAN BY TREADWELL & ROLLO DATED APRIL 10, 2013.
- 3. THE GEOTECHNICAL ENGINEER SHALL BE PRESENT AT THE SITE DURING GRADING OPERATIONS AND SHALL PERFORM ALL TESTING DEEMED NECESSARY. THE GEOTECHNICAL ENGINEER SHALL OBSERVE GRADING OPERATIONS AND IDENTIFY THOSE CONDITIONS WITH RECOMMENDED CORRECTIVE MEASURES TO THE CONTRACTOR AND THE CONSTRUCTION MANAGER.
- 4. EARTHWORK AND SITE DRAINAGE, INCLUDING PIER FOUNDATION EXCAVATIONS, RETAINING WALL BACKFILL, SUBGRADE PREPARATION BENEATH HARDSCAPE PLACEMENT, AND COMPACTION OF ENGINEERED FILL BENEATH HARDSCAPE, AND INSTALLATION OF SURFACE AND SUBSURFACE DRAINAGE SYSTEMS SHOULD BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER SHOULD BE PROVIDED AT LEAST 48 HOURS ADVANCE NOTIFICATION OF ANY EARTHWORK OPERATIONS AND SHOULD BE PRESENT TO OBSERVE AND/OR TEST AS NECESSARY THE EARTHWORK AND FOUNDATION INSTALLATION PHASES OF THE PROJECT.
- SHEETED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE AND SO THAT EXISTING IMPROVEMENTS OF ANY KIND WILL BE FULLY PROTECTED FROM DAMAGE. ANY DAMAGE RESULTING FROM A LACK OF ADEQUATE SHORING, BRACING AND SHEETING, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTOR SHALL EFFECT NECESSARY REPAIRS OR RECONSTRUCTION AT HIS OWN EXPENSE. WHERE THE EXCAVATION FOR A TRENCH, STRUCTURE AND/OR BORING OR JACKING PIT IS 5 FIVE FEET OR MORE IN DEPTH THE CONTRACTOR SHALL CONFORM TO THE APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL COMPLY WITH OSHA REQUIREMENTS AT ALL TIMES
- 6. CONTRACTOR SHALL EXERCISE EXTREME CARE TO CONFORM TO THE LINES, GRADES, SECTIONS, AND DIMENSIONS AS SET FORTH ON THESE PLANS. GRADED AREAS SHALL CONFORM TO THE VERTICAL ELEVATIONS SHOWN WITHIN TOLERANCE OF ONE—TENTH OF A FOOT. WHERE GRADED AREAS DO NOT CONFORM TO THESE TOLERANCES, THE CONTRACTOR SHALL BE REQUIRED TO DO CORRECTIVE GRADING, AT NO EXTRA COST TO THE OWNER.
- 7. PROJECT SHALL CONFORM WITH SAN FRANCISCO DEPARTMENT OF PUBLIC WORKS ORDER NO. 178940 REGARDING EXCAVATING AND RESTORING STREETS IN SAN FRANCISCO.

NOISE REDUCTION

- 1. CONSTRUCTION CONTRACTORS SHALL MUFFLE AND SHIELD INTAKES AND EXHAUSTS, SHROUD OR SHIELD IMPACT TOOLS, AND USE ELECTRIC—POWERED RATHER THAN DIESEL POWERED CONSTRUCTION EQUIPMENT (AS FEASIBLE).
- 2. ALL STATIONARY NOISE GENERATING EQUIPMENT SHALL BE LOCATED AS FAR AWAY AS POSSIBLE FROM NEIGHBORING PROPERTY LINES.

UTILITIES

- CONTRACTOR TO MAKE ARRANGEMENTS WITH THE APPROPRIATE UTILITY COMPANY PRIOR TO ANY TIE—IN, ABANDONMENT OF, OR WORK WITH THEIR FACILITIES.
- 2. A MINIMUM OF TWELVE (12) INCHES VERTICAL CLEARANCE SHALL BE PROVIDED BETWEEN ADJACENT UTILITY PIPES AT ALL UTILITY CROSSINGS WHERE POSSIBLE.
- 3. CONTRACTOR SHALL PROTECT ALL UTILITIES FROM DAMAGE DURING COMPACTION OF ROADWAY SUBGRADE AND PRIOR TO PLACEMENT OF THE FINAL PAVEMENT SECTION.
- 4. ALL UTILITY BOXES, LIDS AND GRATES IN PAVED AREAS SHALL ACCEPT H-20 LOADS. UNLESS OTHERWISE NOTED THE ENTIRE BOX, NOT JUST THE LID OR GRATE, MUST ACCEPT H-20 LOADS.
- 5. CONTRACTOR IS CAUTIONED THAT PVC PIPE DERIVES ITS STRENGTH FROM THE COMPACTED BEDDING MATERIAL BELOW AND BESIDE THE PIPE HAUNCHES. CARE SHOULD BE EXERCISED IN THE PLACEMENT AND COMPACTION OF THIS MATERIAL AND THE INSERTION AND REMOVAL OF SHORING ADJACENT TO IT. CONTRACTOR SHALL USE CAUTION WHEN OPERATING EQUIPMENT ON SUBGRADE NEAR PVC PIPE INSTALLATIONS.
- 6. BACKFILL FOR UTILITY TRENCHES AND OTHER EXCAVATIONS IS ALSO CONSIDERED FILL, AND SHOULD BE PLACED AND COMPACTED ACCORDING TO THE GRADING RECOMMENDATIONS. IF IMPORTED CLEAN SAND OR GRAVEL (DEFINED AS SOIL WITH LESS THAN 10 PERCENT FINES) IS USED AS BACKFILL, IT SHALL BE COMPACTED TO AT LEAST 95 PERCENT RELATIVE COMPACTION. JETTING OF TRENCH BACKFILL IS NOT PERMITTED.
- 7. BEFORE DISCONNECTING UTILITY SERVICE TO ANY ESTABLISHMENT, CONTRACTOR SHALL GIVE ADVANCE NOTICE TO ESTABLISHMENT BEFORE THEIR UTILITY SHUT DOWN, MAKE ARRANGEMENTS WITH THOSE ESTABLISHMENTS FOR A SCHEDULED SHUT DOWN AND COORDINATE DATE OF SHUT DOWN, DURATION, INCONVENIENCE, DELAYS. ETC. WITH A REPRESENTATIVE OF THE CITY.
- 8. WHERE COVER OF PROPOSED UTILITIES IS LESS THAN 3 FEET, TRENCH BACKFILL SHALL BE CEMENT SLURRY IN ACCORDANCE WITH SECTION 19-3.062 OF THE CALTRANS STANDARD SPECIFICATIONS EXCEPT THAT THE CEMENT CONTENT SHALL BE NOT LESS THAN 94 NOR MORE THAN 100 POUNDS PER CUBIC YARD OF MATERIAL PRODUCED.
- 9. TRACER WIRE AND TRACER TAPE SHALL BE INSTALLED WITH THE WATER MAIN. THE WIRE SHALL BE PLACED IMMEDIATELY UNDER THE PIPE AND EXTENDED TO THE STREET OR GROUND SURFACE AT EVERY VALVE BOX. THE TAPE SHALL BE 2" INCHES WIDE NON-METALLIC AS DIRECTED BY THE CITY ENGINEER AND PLACED NOT LESS THAN 6 INCHES BELOW THE SUBGRADE AND NOT LESS THAN 12 INCHES ABOVE THE PIPE.
- 10. ALL IRRIGATION SLEEVES REQUIRED BY LANDSCAPING PLANS SHALL BE INSTALLED BY THIS CONTRACTOR PRIOR TO CONSTRUCTING SURFACE IMPROVEMENTS. REFER TO LANDSCAPE PLANS FOR REQUIRED SIZE AND QUANITITY OF IRRIGATION SLEEVES. THEY SHALL EXTEND A MINIMUM TWELVE (12) INCHES BEHIND THE BACK OF CURB OR BACK OF WALK AT A MINIMUM DEPTH OF THIRTY—SIX (36) INCHES BELOW GRADE.
- 11. PROJECT IS REQUIRED TO INSTALL RECYCLED WATER LINE IN ACCORDANCE WITH SFPUC WATER DEPARTMENT STANDARDS. MAINTAIN A MINIMUM OF FOUR FEET CLEAR TO DOMESTIC WATER.
- 12. CONTRACTOR TO POTHOLE EXISTING UTILITIES AT PROPOSED UTILITY INSTALLATIONS AND CROSSINGS. REPORT TOP AND BOTTOM DEPTHS TO ENGINEER. PROPOSED GRAVITY SEWER LATERALS MUST BE INSTALLED TO THE SPECIFIED GRADES AND FREE OF SAGS. IF CONTRACTOR SHOULD DETERMINE CROSSING OBSTRUCTION, CONTACT ENGINEER TO REVIEW DATA AND DETERMINE ALTERNATE CONNECTION POINTS.

RECORD DRAWINGS

1. CONTRACTOR SHALL KEEP ACCURATE RECORD DRAWINGS WHICH SHOW THE FINAL LOCATION, ELEVATION AND DESCRIPTION OF ALL WORK. CONTRACTOR SHALL ALSO NOTE THE LOCATION AND ELEVATION OF ANY EXISTING IMPROVEMENTS ENCOUNTERED. RECORD DRAWINGS SHALL BE "REDLINED" ON A SET OF PRINTS. THE REDLINED PRINTS SHALL BE DELIVERED TO THE CONSTRUCTION MANAGER.

STATEMENT OF RESPONSIBILITY

- 1. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL AND CITY HARMLESS FROM ANY AND ALL ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
- 2. CONTRACTOR SHALL COMPLY WITH ALL STATE, COUNTY AND CITY LAWS AND ORDINANCES: AND REGULATIONS OF THE DEPARTMENT OF INDUSTRIAL RELATIONS, OSHA AND INDUSTRIAL ACCIDENT COMMISSION RELATING TO SAFETY AND CHARACTER OF WORK EQUIPMENT AND LABOR PERSONNEL.

UNAUTHORIZED CHANGES AND USES

1. THE DESIGN ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE

EROSION & SEDIMENT CONTROL

- CONTRACTOR SHALL IMPLEMENT MEASURES AS DETAILED IN THE APPROVED EROSION AND SEDIMENT CONTROL PLAN BY BKF ENGINEERS, DATED MAY 15, 2013
- 2. CONTRACTOR IS REQUIRED TO OBTAIN ALL REQUIRED BATCH-WASTE WATER DISCHARGE PERMITS FROM DEWATERING ACTIVITIES.
- 3. MEASURES SHOWN IN THE EROSION CONTROL PLAN ARE MINIMUM REQUIREMENTS AND ADDITIONAL MEASURES SHOULD BE INCORPORATED AS NECESSARY FOR COMPLIANCE.
- 4. CONTRACTOR MAY ADJUST MEASURES AS SITE CONDITION CHANGES.

WATER INSTALLATION NOTES

- THIS PROJECT REQUIRES INSTALLATION OF A DUAL-PLUMBING SYSTEM FOR RECYCLED WATER USE IN ACCORDANCE WITH ORDINANCES 390-91, 391-91, AND 393-94.
- 2. ONE WATER METER IS REQUIRED FOR EACH WATER LINE. THIS INCLUDES WATER METER AND RELIEF VALVE FOR FIRE PROTECTION LINE PLACED WITHIN PROPERTY LINE PER SF DWG A-1290.2.
- 3. ALL BACKFLOW PREVENTION ASSEMBLIES MUST BE APPROVED BY THE SFPUC'S WATER QUALITY DIVISION.
- 4. EACH WATER LINE REQUIRES AN APPROVED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTOR.
- 5. THE BACKFLOW PREVENTION ASSEMBLY FOR DOMESTIC WATER PLUMBING INSIDE THE BUILDING AND FOR THE RECYCLED WATER SYSTEM MUST MEET THE CCSF'S PLUMBING CODE AND HEALTH CODE.
- CALIFORNIA DEPARTMENT OF PUBLIC HEALTH REGULATIONS REQUIRE NEW WATER MAINS AND NEW SUPPLY LINES TO BE INSTALLED AT LEAST 4—FEET HORIZONTALLY FROM, AND 1—FOOT VERTICALLY ABOVE A PARALLEL PIPELINE CONVEYING RECYCLED WATER.
- 7. RECYCLED WATER PIPE TYPE SHALL BE THE FOLLOWING:

 TRANSMISSION LINES & MAINS DUCTILE IRON
 DISTRIBUTION AND SERVICE LINES PURPLE PVC OR EQUIVALENT
 IRRIGATIN LINES PURPLE PVC OR EQUIVALENT
 DUAL PLUMBING REFER TO CITY AND COUNTY OF SF PLUMBING CODE
- SFPUC MUST SIGN OFF ON PIPE TYPE PRIOR TO INSTALLATION. CONTACT THE CITY DISTRIBUTION DIVISION AT (415) 550-4952.
- 9. THE POTABLE WATER LINE WILL BE USED TO FEED THE RECYCLED WATER LINE(S) UNTIL SUCH TIME THAT RECYCLED WATER BECOMES AVAILABLE. WHEN RECYCLED WATER BECOMES AVAILABLE, THE CROSS—CONNECTION WILL BE BROKEN BY THE SFPUC, AND THE POTABLE AND RECYCLED WATER LINES WILL BE TOTALLY SEPARATED. BEFORE RECYCLED WATER IS DELIVERED TO THE PROPERTY, CROSS—CONNECTION AND BACKFLOW TESTING WILL TAKE PLACE TO ASSURE SEPARATION.
- 10. UNDER NO CIRCUMSTANCES ARE DEVELOPERS OR PROPERTY OWNERS TO "T-OFF" OF THE POTABLE WATER LINE TO THE RECYCLED WATER LINES.

BOLLARD NOTES

1. SEE SHEET C8.50 FOR BOLLARD INSTALLATION NOTES.



BOSTON PROPERTIES / HINES

PELLI CLARKE PELLI ARCHITECTS

Design Architect

KENDALL/HEATON ASSOCIATES, INC.
Architect of Record

MAGNUSSON KLEMENCIC ASSOCIATES
Structural Engineer

MEPFP Engineer

PWP LANDSCAPE ARCHITECTURE
Landscape Architect

BKF ENGINEERSCivil Engineer

PERSOHN/HAHN ASSOCIATES, INC.
Elevator Consultant

AON FIRE PROTECTION ENGINEERING
Building Security

HWA PARKING
Parking Consultant

Geotechnical Consultant

HLB LIGHTING DESIGN, INC.

Lighting Consultant

CERAMI AND ASSOCIATES, INC.

Acoustical Consultant

MORRISON HERSHFIELD
Curtain Wall Consultant

ENVIRONMENTAL BUILDING STRATEGIES

LEED Consultant

HMA CONSULTING
Building Management and Controls Engineer

C.S. CAULKINS CO., INC. Window Washing Consultant

ENGINEERING SPECIALTIES GROUP

Aerial Tram Consultant

DEBRA NICHOLS DESIGN
Graphic Design Consultant

ROYSTON HANAMOTO ALLEY & ABEY
Landscape Architect of Record

7 02 MAY 14 GMP

3 29 OCT 13 STREET IMPROVEMENT PERMIT
PIPE BARRIER PERMIT
SIDEWALK WIDENING PROCESS
2 06 MAY 13 SITE PERMIT REVISION NO. 2

1 11 MAR 13 SITE PERMIT

NO. DATE

CAD FILENAME

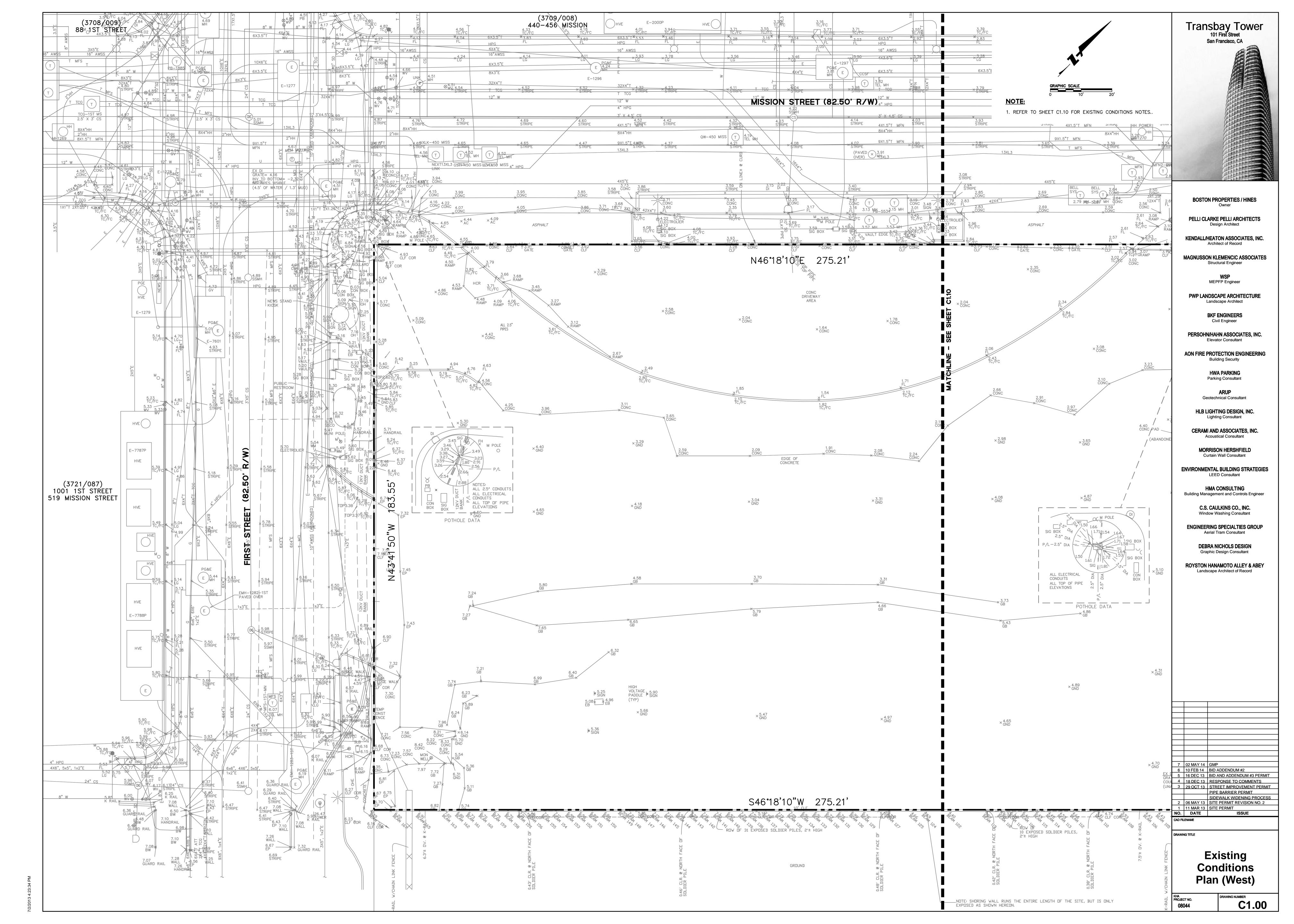
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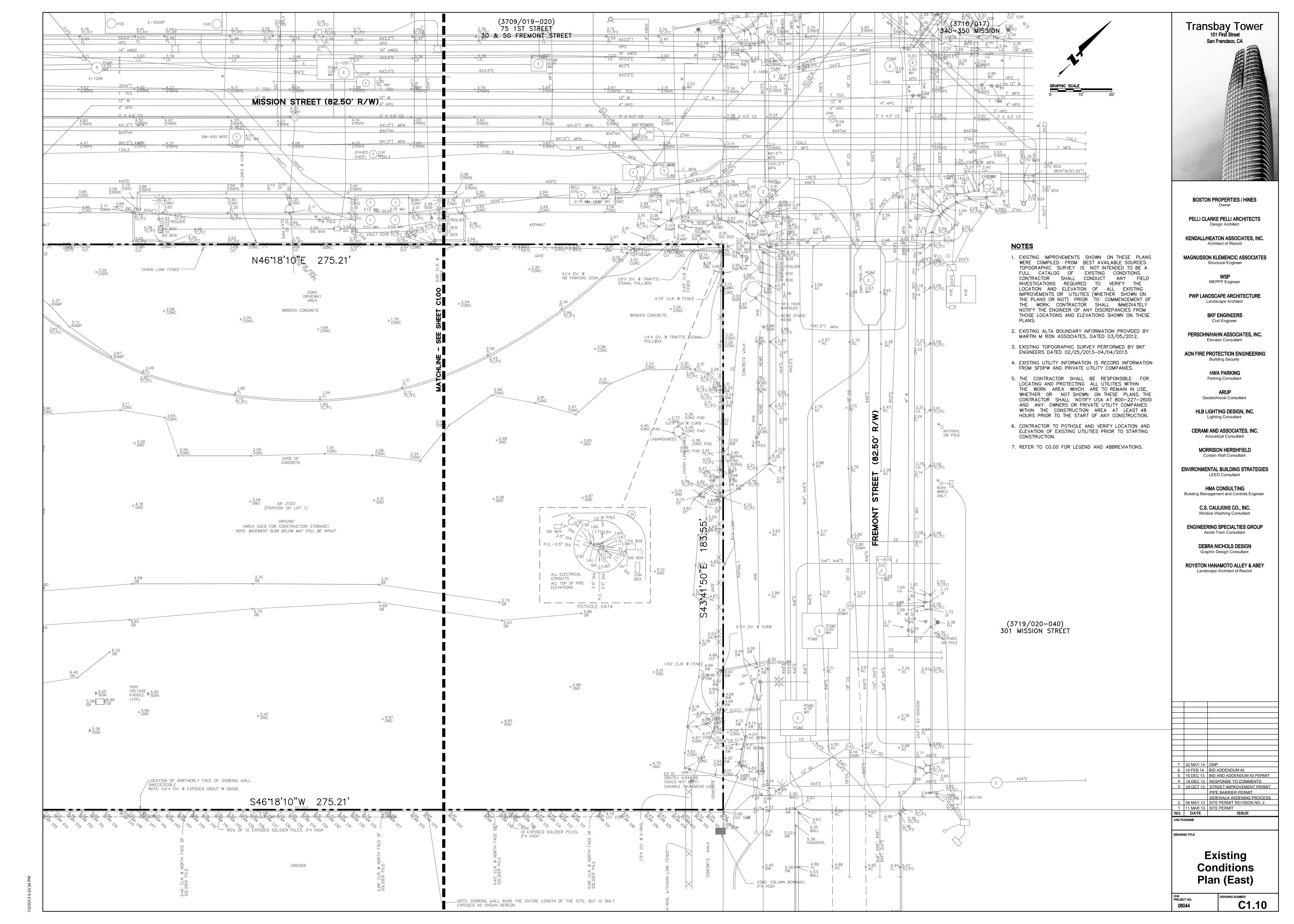
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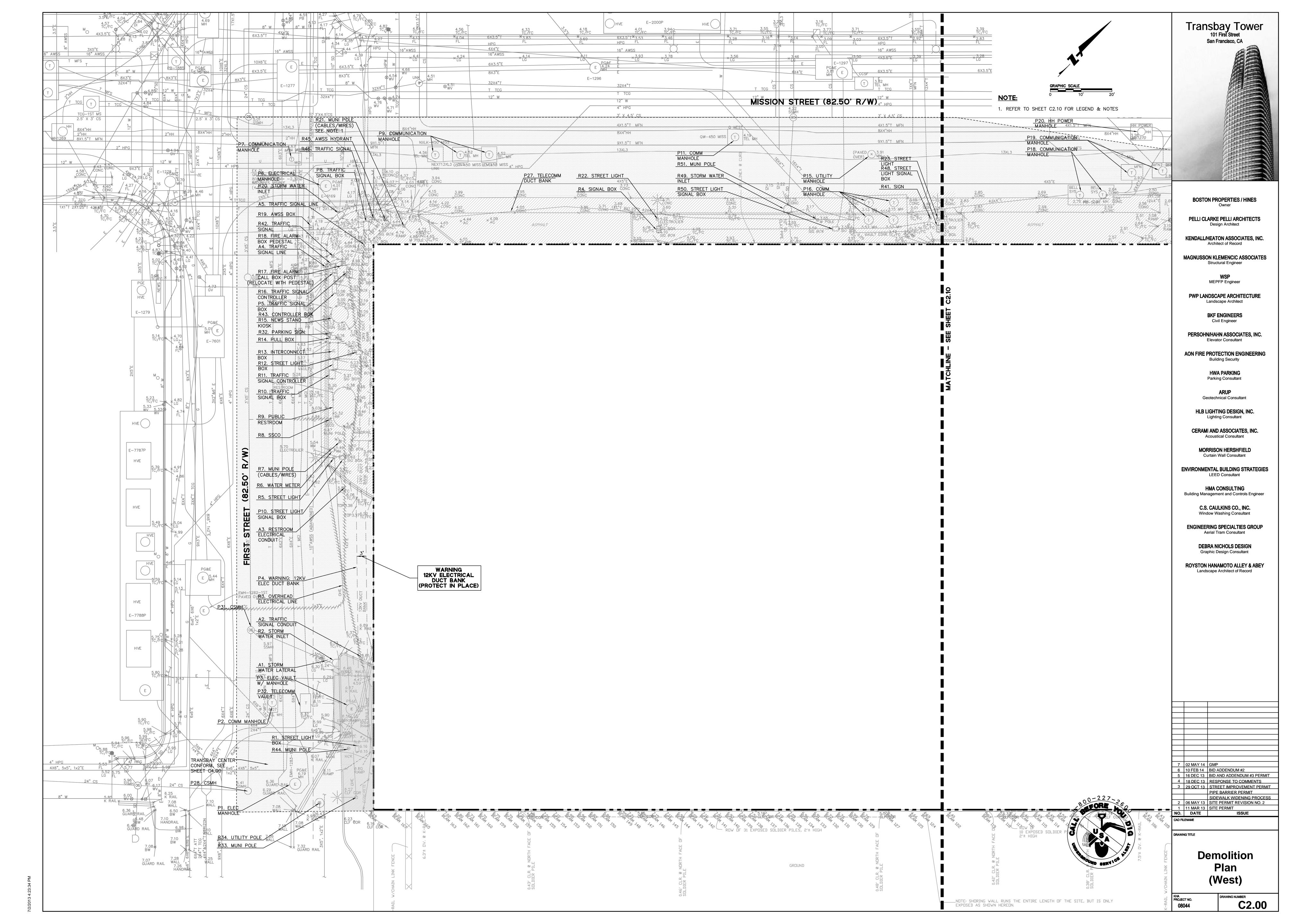
KHA PROJECT NO. 08044

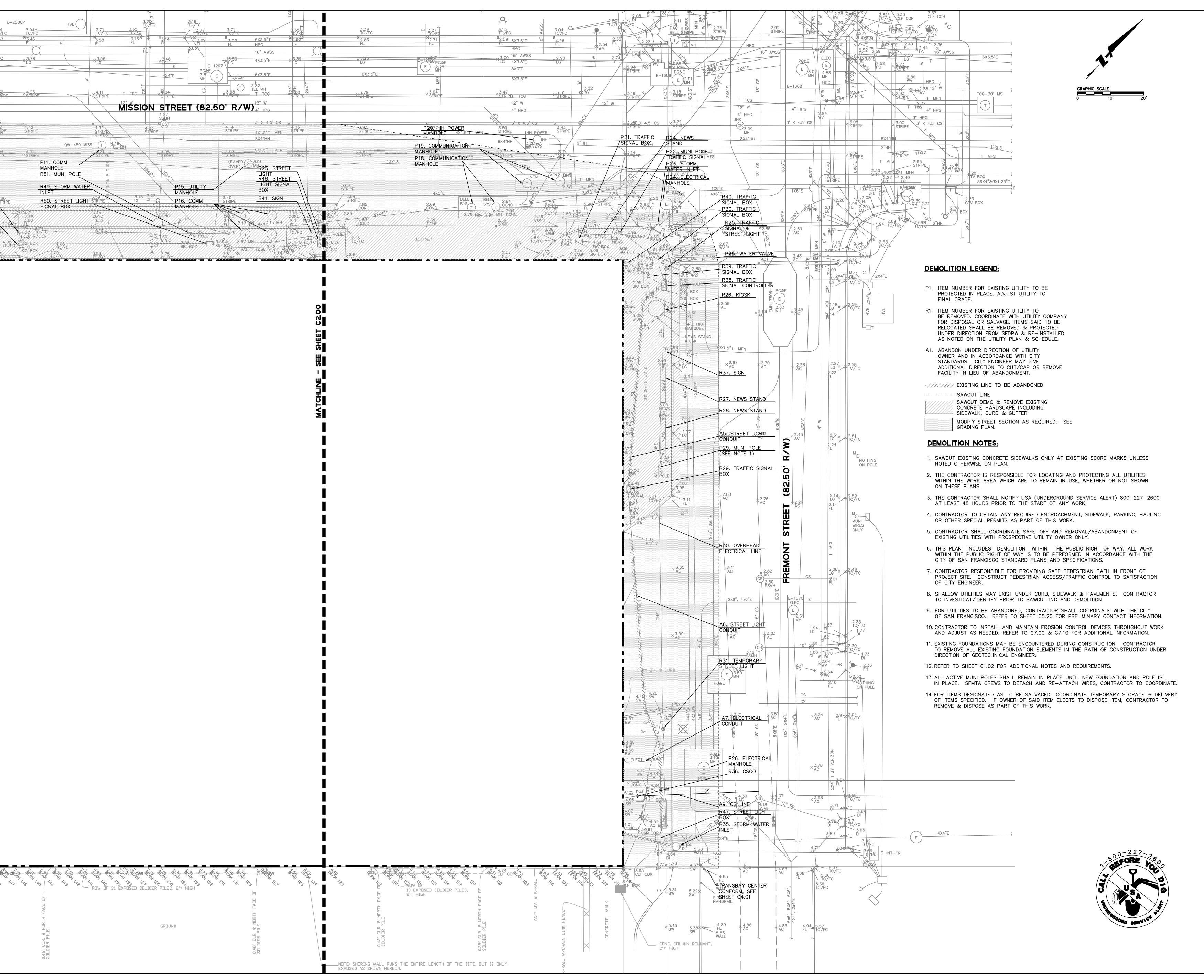
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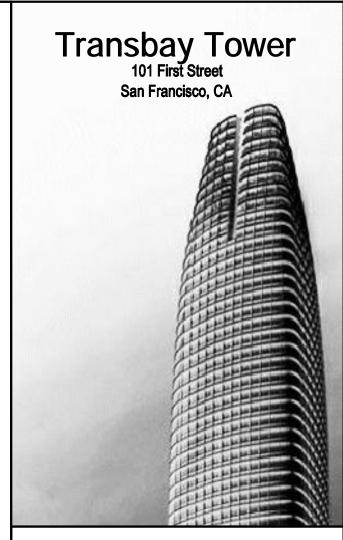
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BOSTON PROPERTIES / HINES

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v

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Landscape Architect of Record

7 02 MAY 14 GMP 6 10 FEB 14 BID ADDENDUM #2

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SIDEWALK WIDENING PROCESS

2 06 MAY 13 SITE PERMIT REVISION NO. 2
1 11 MAR 13 SITE PERMIT
NO. DATE ISSUE
CAD FILENAME

CAD FILENAME

DRAWING TITLE

Demolition Plan (East)

KHA PROJECT NO. 08044

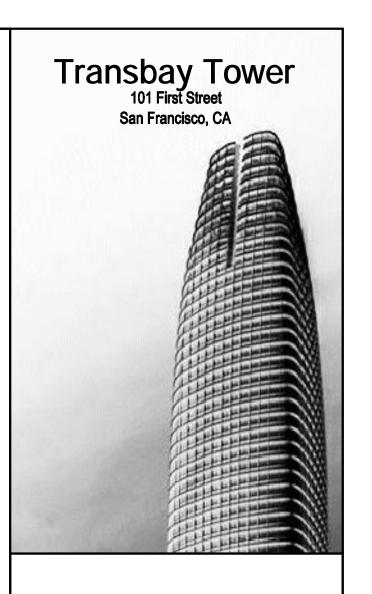
C2.10

LABEL LEGEND:

- P1. ITEM NUMBER FOR EXISTING UTILITY TO BE PROTECTED IN PLACE. ADJUST UTILITY TO FINAL GRADE.
- R1. ITEM NUMBER FOR EXISTING UTILITY TO BE REMOVED. COORDINATE WITH UTILITY COMPANY FOR DISPOSAL OR SALVAGE. ITEMS SAID TO BE RELOCATED SHALL BE REMOVED & PROTECTED UNDER DIRECTION FROM SFDPW & RE-INSTALLED AS NOTED ON THE UTILITY PLAN & SCHEDULE.
- A1. ABANDON UNDER DIRECTION OF UTILITY OWNER AND IN ACCORDANCE WITH CITY STANDARDS. CITY ENGINEER MAY GIVE ADDITIONAL DIRECTION TO CUT/CAP OR REMOVE FACILITY IN LIEU OF ABANDONMENT.

DEMOLITION SCHEDULE:

ITEM DESCRIPTION	STREET	ACTION	AGENCY TO COORDINATE	STATION/OFFSET	NOTES AD HIST TO CRADE
ELECTRICAL MANHOLE COMMUNICATIONS MANHOLE	FIRST FIRST	PROTECT IN PLACE PROTECT IN PLACE	PG&E BELL SYS	108.40 / 15.87 R 134.80 / 8.38 R	ADJUST TO GRADE ADJUST TO GRADE
ELECTRICAL VAULT W/ MANHOLE	FIRST	PROTECT IN PLACE	PG&E	132.69 / 34.07 R	ADJUST TO GRADE
12KV ELECTRICAL DUĆT BANK	FIRST	PROTECT IN PLACE	PG&E	N/A	WARNING! HIGH VOLTAGE. TO REMAIN IN PLACE
TRAFFIC SIGNAL PULL BOX	FIRST	PROTECT IN PLACE	SFMTA	274.03 / 33.39 R	ADJUST TO GRADE
ELECTRICAL MANHOLE	MISSION	PROTECT IN PLACE	PG&E	125.82 / 22.30 R	ADJUST TO GRADE ADJUST TO GRADE
COMMUNICATIONS MANHOLE TRAFFIC SIGNAL PULL BOX	MISSION MISSION	PROTECT IN PLACE PROTECT IN PLACE	MCI SFMTA	114.69 / 13.64 R 138.84 / 35.18 R	ADJUST TO GRADE ADJUST TO GRADE
COMMUNICATIONS MANHOLE	MISSION	PROTECT IN PLACE	BELL SYS	169.48 / 12.25 R	ADJUST TO GRADE
STREET LIGHT SIGNAL PULL BOX	FIRST	PROTECT IN PLACE	SFMTA/BLHP	214.46 / 31.28 R	ADJUST TO GRADE
COMMUNICATIONS MANHOLE	MISSION	PROTECT IN PLACE	BELL SYS	258.59 / 6.44 R	ADJUST TO GRADE
UTILITY MANHOLE COMMUNICATIONS MANHOLE	MISSION MISSION	PROTECT IN PLACE PROTECT IN PLACE	SFDPW AT&T	302.90 / 11.94 R 305.66 / 30.62 R	ADJUST TO GRADE ADJUST TO GRADE
COMMUNICATIONS MANHOLE COMMUNICATIONS MANHOLE	MISSION	PROTECT IN PLACE	BELL SYS	374.19 / 25.16 R	ADJUST TO GRADE ADJUST TO GRADE
COMMUNICATIONS MANHOLE	MISSION	PROTECT IN PLACE	MFN	392.33 / 17.62 R	ADJUST TO GRADE
HETCH HETCHY POWER MANHOLE	MISSION	PROTECT IN PLACE	HETCH HETCHY	390.49 / 4.76 R	ADJUST TO GRADE
TRAFFIC SIGNAL PULL BOX	MISSION	PROTECT IN PLACE	SFMTA	403.00 / 35.43 R	ADJUST TO GRADE
MUNI POLE/TRAFFIC SIGNAL STORM WATER INLET	MISSION MISSION	PROTECT IN PLACE PROTECT IN PLACE	SFMTA SFPUC	415.39 / 33.19 R 426.98 / 31.55 R	ADJUST TO GRADE ADJUST TO GRADE
ELECTRICAL MANHOLE	MISSION	PROTECT IN PLACE	PG&E	429.52 / 24.19 R	ADJUST TO GRADE
WATER VALVE	MISSION	PROTECT IN PLACE	SFPUC	443.77 / 40.49 L	ADJUST TO GRADE
ELECTRICAL MANHOLE	FREMONT	PROTECT IN PLACE	PG&E	129.83 / 16.89 L	ADJUST TO GRADE
TELECOMM DUCT BANK	MISSION	PROTECT IN PLACE	AT&T	N/A	CAUTION! DO NOT DISTURB.
COMBINED SEWER MANHOLE MUNI POLE	FIRST FREMONT	PROTECT IN PLACE PROTECT IN PLACE	SFPUC SFMTA	106.09 / 0.48 R 220.84 / 30.34 L	ADJUST TO GRADE ADJUST TO GRADE
TRAFFIC SIGNAL BOX	FREMONT	PROTECT IN PLACE	BLHP/SFMTA	282.70 / 30.97 L	ADJUST TO GRADE
COMBINED SEWER MANHOLE	FIRST	PROTECT IN PLACE	SFPUC	158.32 / 1.44 R	ADJUST TO GRADE
TELECOMM VAULT	FIRST	PROTECT IN PLACE	AT&T/SFDPW	134.58 / 19.30 R	ADJUST TO GRADE
STREET LIGHT PULL BOX	FIRST	REMOVE	BLHP	119.74 / 35.98 R	COORDINATE DISPOSAL WITH UTILITY AGENCY
STORM WATER INLET OVERHEAD ELECTRICAL LINE	FIRST FIRST	REMOVE REMOVE	SFPUC BLHP	147.70 / 29.10 R N/A	COORDINATE DISPOSAL WITH UTILITY AGENCY SEE UTILITY PLANS FOR RELOCATION INFORMATION
SIGNAL PULL BOX	MISSION	REMOVE	SFMTA	233.76 / 36.36 R	COORDINATE DISPOSAL WITH UTILITY AGENCY
STREET LIGHT	FIRST	REMOVE	BLHP	214.05 / 28.47 R	COORDINATE DISPOSAL WITH UTILITY AGENCY
WATER METER	FIRST	REMOVE	SFDPW	216.77 / 27.91 R	COORDINATE DISPOSAL WITH UTILITY AGENCY
MUNI POLE (CABLES/WIRES)	FIRST	REMOVE	SFMTA/BLHP	219.53 / 30.44 R	COORDINATE DISPOSAL WITH LITELITY ACENCY
SSCO PUBLIC RESTROOM	FIRST FIRST	REMOVE REMOVE	SFPUC SFMTA	226.94 / 27.33 R 231.14 / 31.93 R	COORDINATE DISPOSAL WITH UTILITY AGENCY COORDINATE DISPOSAL WITH UTILITY AGENCY
TRAFFIC SIGNAL PULL BOX	FIRST	REMOVE	SFMTA	241.36 / 27.82 R	COORDINATE DISPOSAL WITH UTILITY AGENCY
TRAFFIC SIGNAL CONTROLLER	FIRST	REMOVE	SFMTA	244.65 / 28.86 R	COORDINATE DISPOSAL WITH UTILITY AGENCY
STREET LIGHT PULL BOX	FIRST	REMOVE	SFMTA/BLHP	248.51 / 36.56 R	COORDINATE DISPOSAL WITH UTILITY AGENCY
INTERCONNECT PULL BOX PULL BOX	FIRST FIRST	REMOVE REMOVE	SFMTA SFMTA	248.90 / 28.25 R 253.38 / 28.07 R	COORDINATE DISPOSAL WITH UTILITY AGENCY COORDINATE DISPOSAL WITH UTILITY AGENCY
NEWS STAND KIOSK	FIRST	REMOVE	JCDECAUX	260.82 / 30.26 R	COORDINATE DISPOSAL WITH UTILITY AGENCY COORDINATE DISPOSAL WITH UTILITY AGENCY
TRAFFIC SIGNAL CONTROLLER	FIRST	REMOVE	SFMTA	274.25 / 28.78 R	COORDINATE DISPOSAL WITH UTILITY AGENCY
FIRE ALARM CALL BOX POST	FIRST	REMOVE	SFFD	276.71 / 30.91 R	COORDINATE DISPOSAL WITH UTILITY AGENCY
FIRE ALARM BOX PEDESTAL	FIRST	REMOVE	SFFD	276.82 / 28.12 R	COORDINATE DISPOSAL WITH UTILITY AGENCY
AWSS PULL BOX STORM WATER INLET	FIRST FIRST	REMOVE REMOVE	SFDPW SFPUC	288.97 / 21.09 R 293.07 / 30.68 R	COORDINATE DISPOSAL WITH UTILITY AGENCY COORDINATE DISPOSAL WITH UTILITY AGENCY
MUNI POLE (CABLES/WIRES)	MISSION	REMOVE	SFMTA/BLHP	151.07 / 35.29 R	COORDINATE DISPOSAL WITH UTILITY AGENCY
STREET LIGHT	MISSION	REMOVE	BLHP	233.38 / 33.11 R	COORDINATE DISPOSAL WITH UTILITY AGENCY
STREET LIGHT	MISSION	REMOVE	BLHP	324.30 / 33.06 R	COORDINATE DISPOSAL WITH UTILITY AGENCY
NEWS STAND	MISSION	REMOVE	SFDPW	409.76 / 34.16 R	COORDINATE DISPOSAL WITH LITELITY ACENCY
TRAFFIC SIGNAL & STREET LIGHT KIOSK	FREMONT FREMONT	RELOCATE REMOVE	SFMTA/BLHP JCDECAUX/SFDPW	281.06 / 28.28 L 268.99 / 31.26 L	COORDINATE DISPOSAL WITH UTILITY AGENCY COORDINATE DISPOSAL WITH UTILITY AGENCY
NEWS STAND	FREMONT	REMOVE	SFDPW	245.69 / 29.15 L	COORDINATE DISPOSAL WITH UTILITY AGENCY
NEWS STAND	FREMONT	REMOVE	SFDPW	230.25 / 29.18 L	COORDINATE DISPOSAL WITH UTILITY AGENCY
TRAFFIC SIGNAL BOX	FREMONT	REMOVE	SFMTA	214.22 / 39.73 L	COORDINATE DISPOSAL WITH UTILITY AGENCY
OVERHEAD ELECTRICAL LINE	FREMONT	REMOVE	PG&E	N/A	COORDINATE DISPOSAL WITH LITHITY ACENCY
TEMPORARY STREET LIGHT PARKING SIGN	FREMONT FIRST	REMOVE REMOVE	BLHP SFMTA	141.55 / 29.26 L 254.61 / 27.27 R	COORDINATE DISPOSAL WITH UTILITY AGENCY COORDINATE DISPOSAL WITH UTILITY AGENCY
MUNI POLE	FIRST	REMOVE	SFMTA	104.01 / 35.63 R	COORDINATE DISPOSAL WITH UTILITY AGENCY
UNKNOWN UTILITY POLE	FIRST	REMOVE	SFMTA	102.19 / 23.72 R	VERIFY WITH SFMTA. COORDINATE DISPOSAL WITH UTILITY AGENCY
STORMWATER INLET	FREMONT	REMOVE	SFPUC	105.91 / 25.33 L	SEE UTILITY PLANS FOR RELOCATION INFORMATION
COMBINED SEWER CLEANOUT SIGN	FREMONT	REMOVE	SFPUC SFDPW	121.29 / 36.93 L	COORDINATE DISPOSAL WITH LITELTY ACENCY
TRAFFIC SIGNAL CONTROLLER	FREMONT FREMONT	REMOVE RELOCATE	SFMTA	256.67 / 28.12 L 275.93 / 28.88 L	COORDINATE DISPOSAL WITH UTILITY AGENCY COORDINATE DISPOSAL WITH UTILITY AGENCY
TRAFFIC SIGNAL CONTROLLER TRAFFIC SIGNAL BOX	MISSION	RELOCATE	SFMTA	278.73 / 33.70 L	SEE UTILITY PLANS FOR RELOCATION INFORMATION
TRAFFIC SIGNAL BOX	MISSION	RELOCATE	SFMTA	416.46 / 42.02 R	SEE UTILITY PLANS FOR RELOCATION INFORMATION
SIGN	FIRST	REMOVE	SFDPW	321.91 / 32.69 R	COORDINATE DISPOSAL WITH UTILITY AGENCY
TRAFFIC SIGNAL	FIRST	RELOCATE	SFMTA	279.64 / 28.06 R	COORDINATE DISPOSAL WITH LITELTY ACENCY
TRAFFIC CONTROLLER BOX MUNI POLE	FIRST FIRST	RELOCATE REMOVE	SFMTA SFMTA	269.21 / 28.54 R 119.87 / 33.20 R	COORDINATE DISPOSAL WITH UTILITY AGENCY COORDINATE DISPOSAL WITH UTILITY AGENCY
AWSS HYDRANT	MISSION	RELOCATE	SFDPW	145.02 / 33.19 R	SEE UTILITY PLANS FOR RELOCATION INFORMATION
TRAFFIC SIGNAL	MISSION	RELOCATE	SFMTA	141.18 / 32.72 R	SEE UTILITY PLANS FOR RELOCATION INFORMATION
STREET LIGHT BOX	FREMONT	REMOVE	BLHP	108.47 / 30.77 L	COORDINATE DISPOSAL WITH UTILITY AGENCY
STREET LIGHT SIGNAL PULL BOX	MISSION	REMOVE	SFMTA/BLHP	324.53 / 36.22 R	COORDINATE DISPOSAL WITH UTILITY AGENCY
STORM WATER INLET STREET LIGHT SIGNAL PULL BOX	MISSION MISSION	RELOCATE REMOVE	SFDPW SFMTA/BLHP	275.64 / 29.78 R 291.21 / 36.24 R	SEE UTILITY PLANS FOR RELOCATION INFORMATION COORDINATE DISPOSAL WITH UTILITY AGENCY
MUNI POLE	MISSION	REMOVE	SFMTA/BLHP	285.43 / 33.36 R	COORDINATE DISPOSAL WITH UTILITY AGENCY
STORM WATER LATERAL	FIRST	ABANDON	SFPUC	N/A	COORDINATE WITH CITY ENGINEER AND UTILITY OWNER
TRAFFIC SIGNAL CONDUIT	FIRST	ABANDON	SFMTA	N/A	COORDINATE WITH CITY ENGINEER AND UTILITY OWNER
RESTROOM ELECTRICAL CONDUIT	FIRST	ABANDON	SFMTA	N/A	COORDINATE WITH CITY ENGINEER AND UTILITY OWNER
TRAFFIC SIGNAL LINE TRAFFIC SIGNAL LINE	FIRST FIRST	ABANDON ABANDON	SFMTA SFMTA	N/A N/A	COORDINATE WITH CITY ENGINEER AND UTILITY OWNER COORDINATE WITH CITY ENGINEER AND UTILITY OWNER
STREET LIGHT CONDUIT	FREMONT	ABANDON	BLHP	N/A	COORDINATE WITH CITY ENGINEER AND UTILITY OWNER COORDINATE WITH CITY ENGINEER AND UTILITY OWNER
STREET LIGHT CONDUIT	FREMONT	ABANDON	BLHP	N/A	COORDINATE WITH CITY ENGINEER AND UTILITY OWNER
ELECTRICAL CONDUIT	FREMONT		SFDPW	N/A	COORDINATE WITH CITY ENGINEER AND UTILITY OWNER



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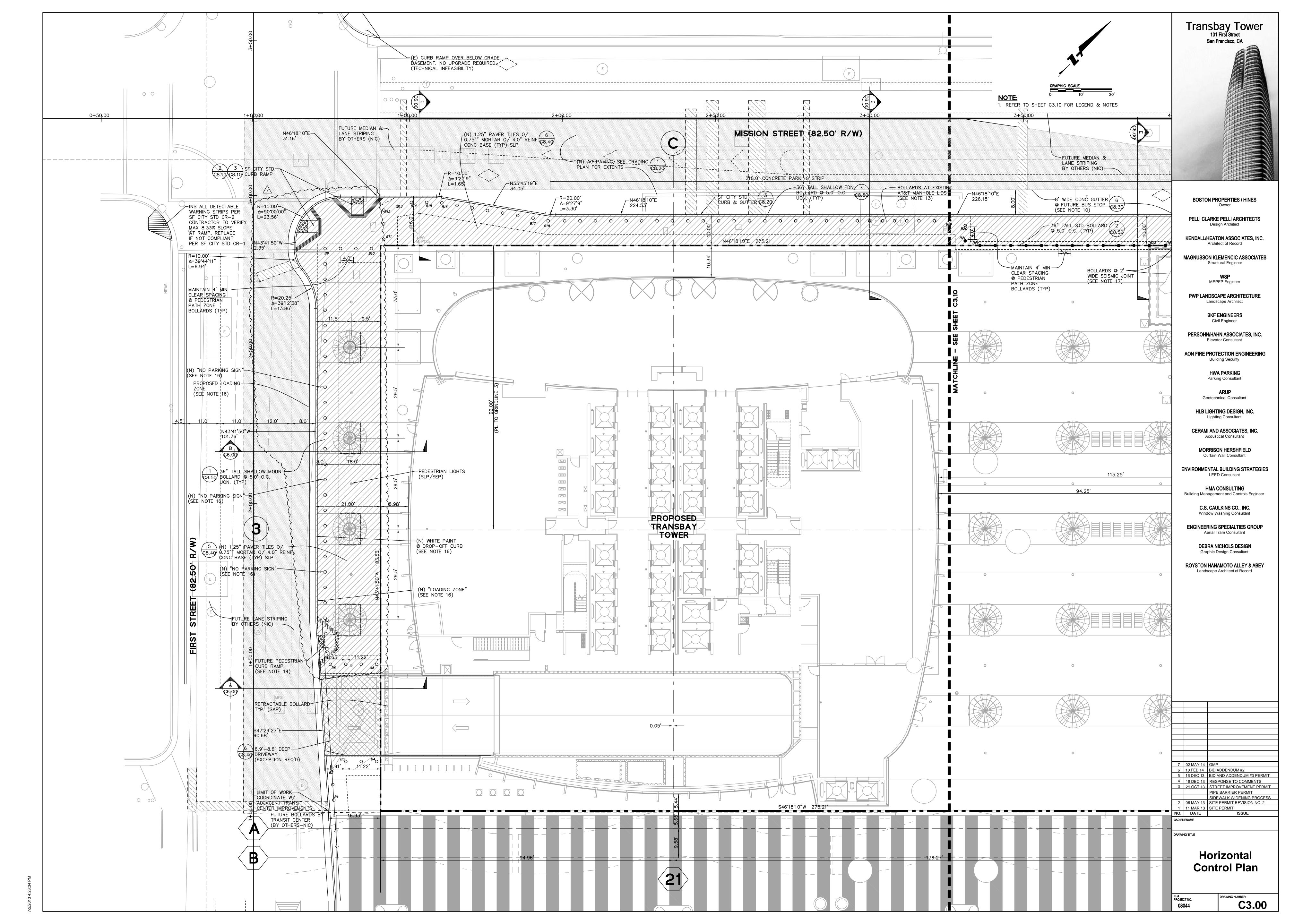
PIPE BARRIER PERMIT SIDEWALK WIDENING PROCESS
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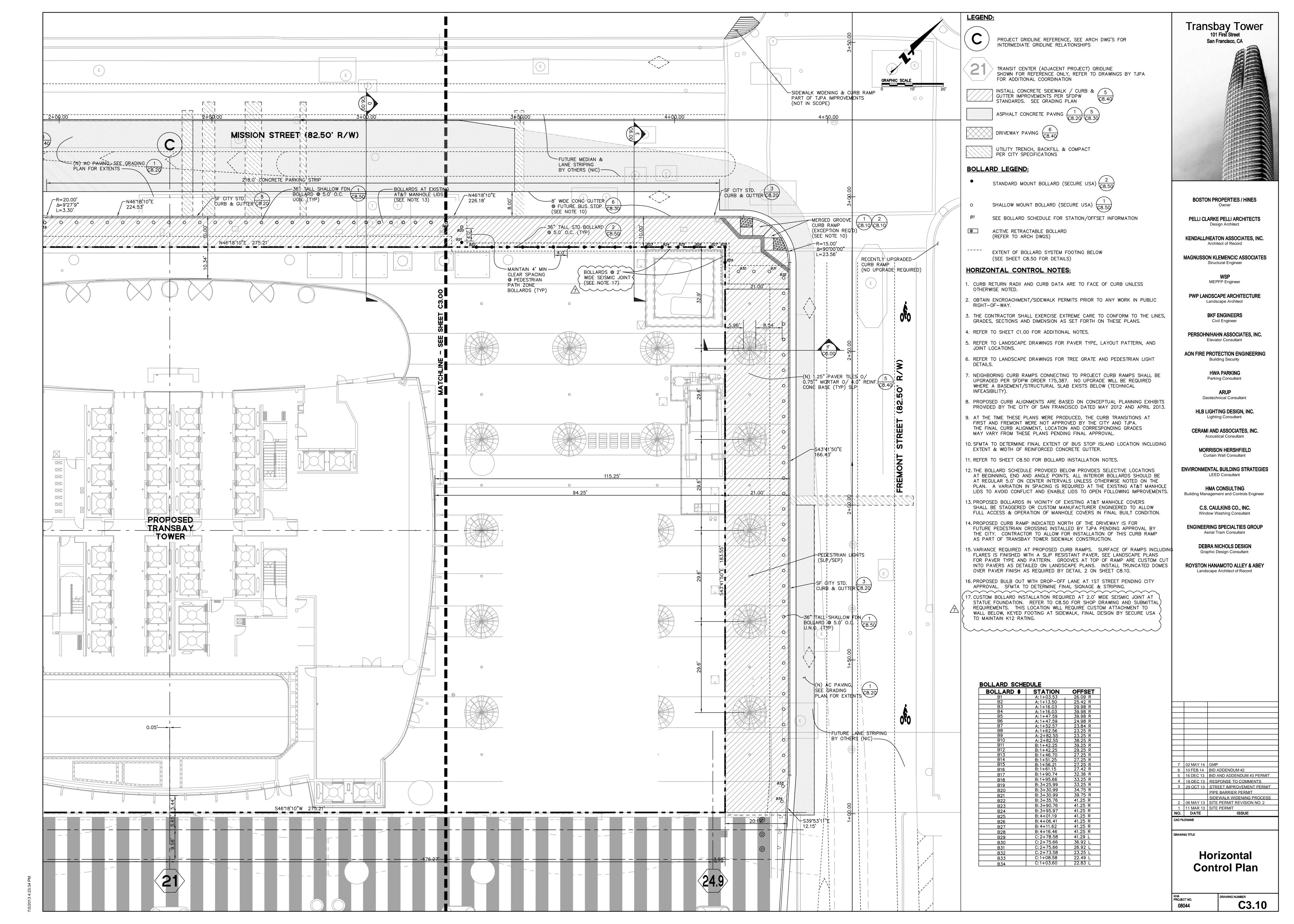
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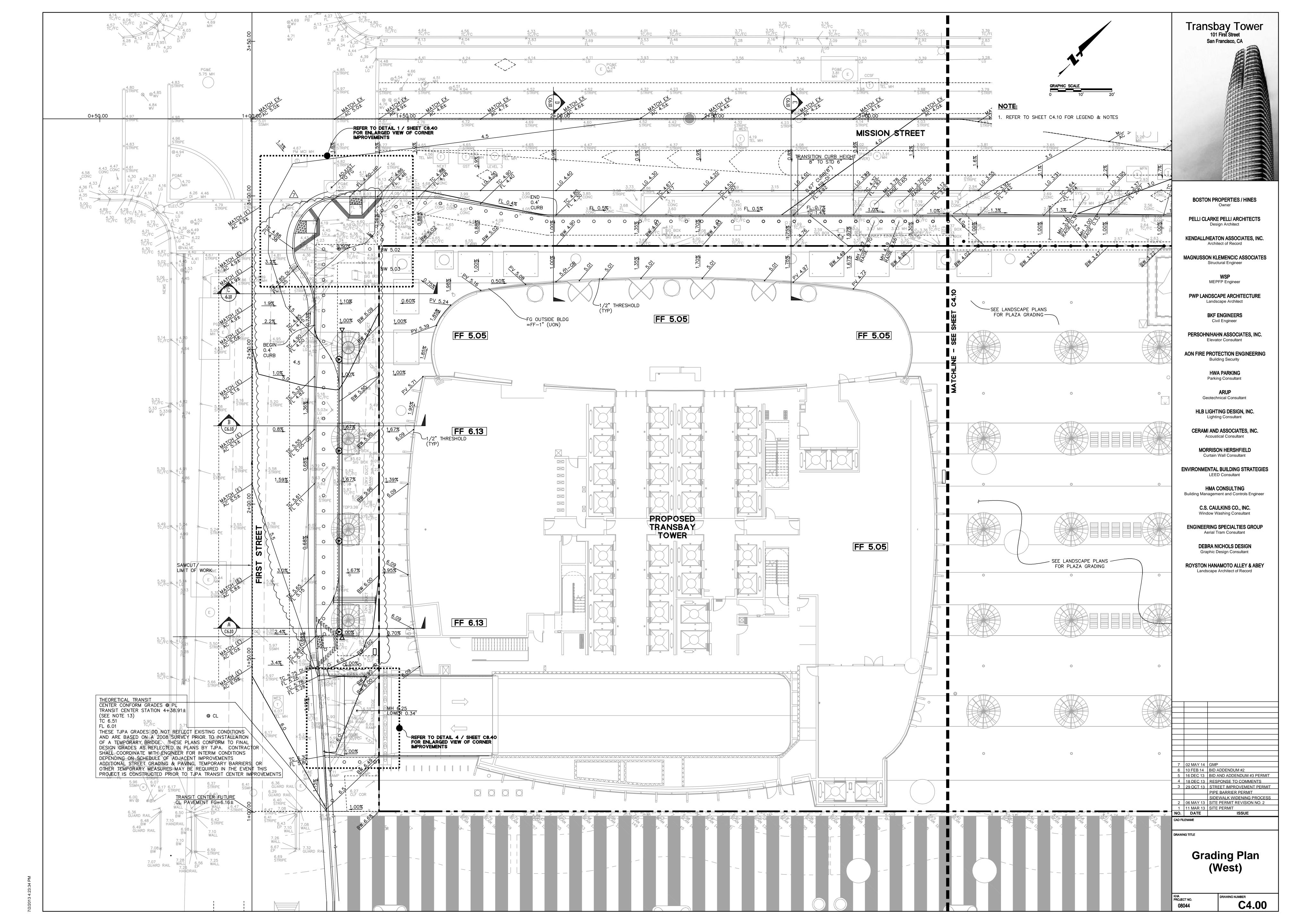
Demolition Plan Schedule

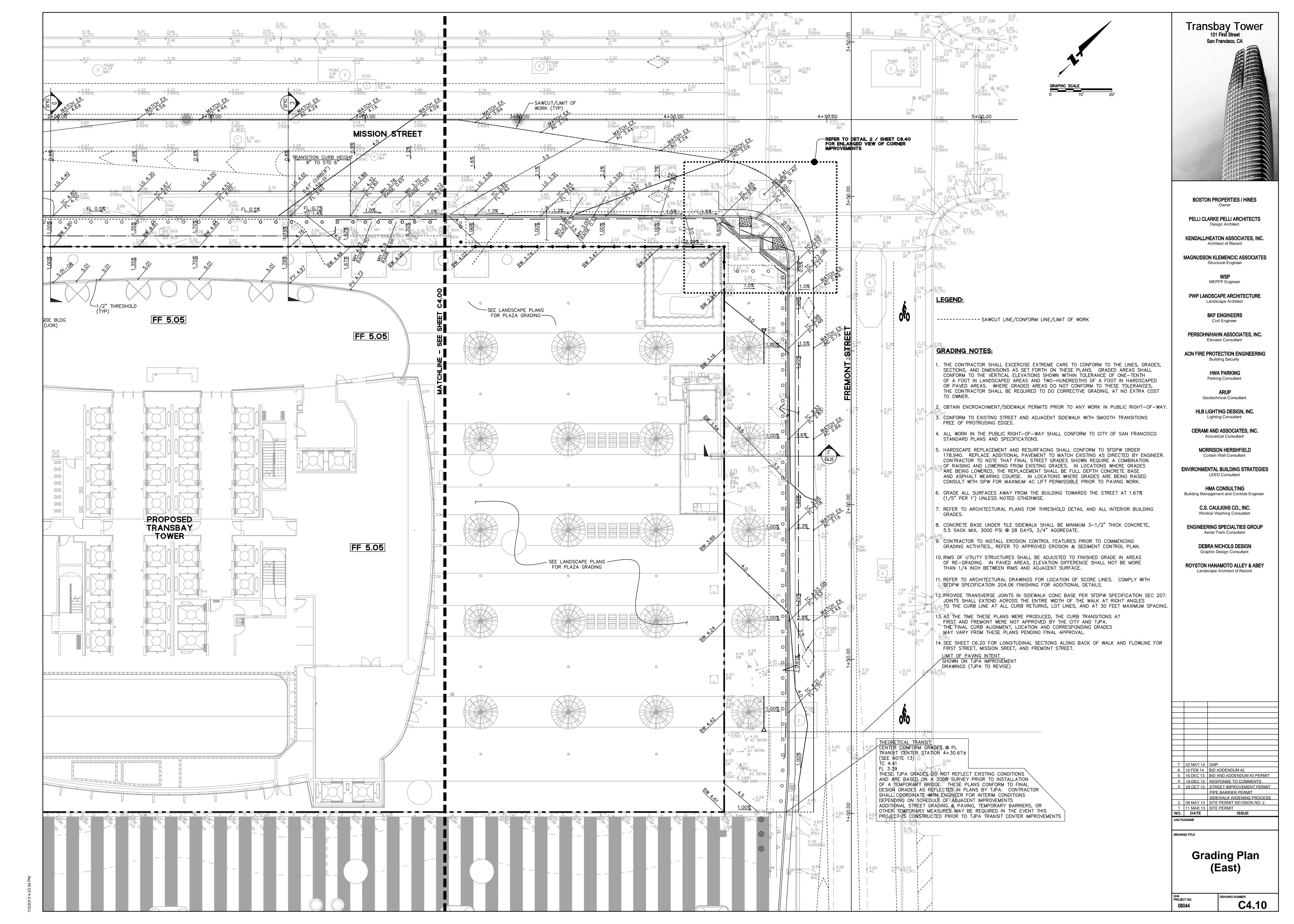
KHA PROJECT NO. 08044

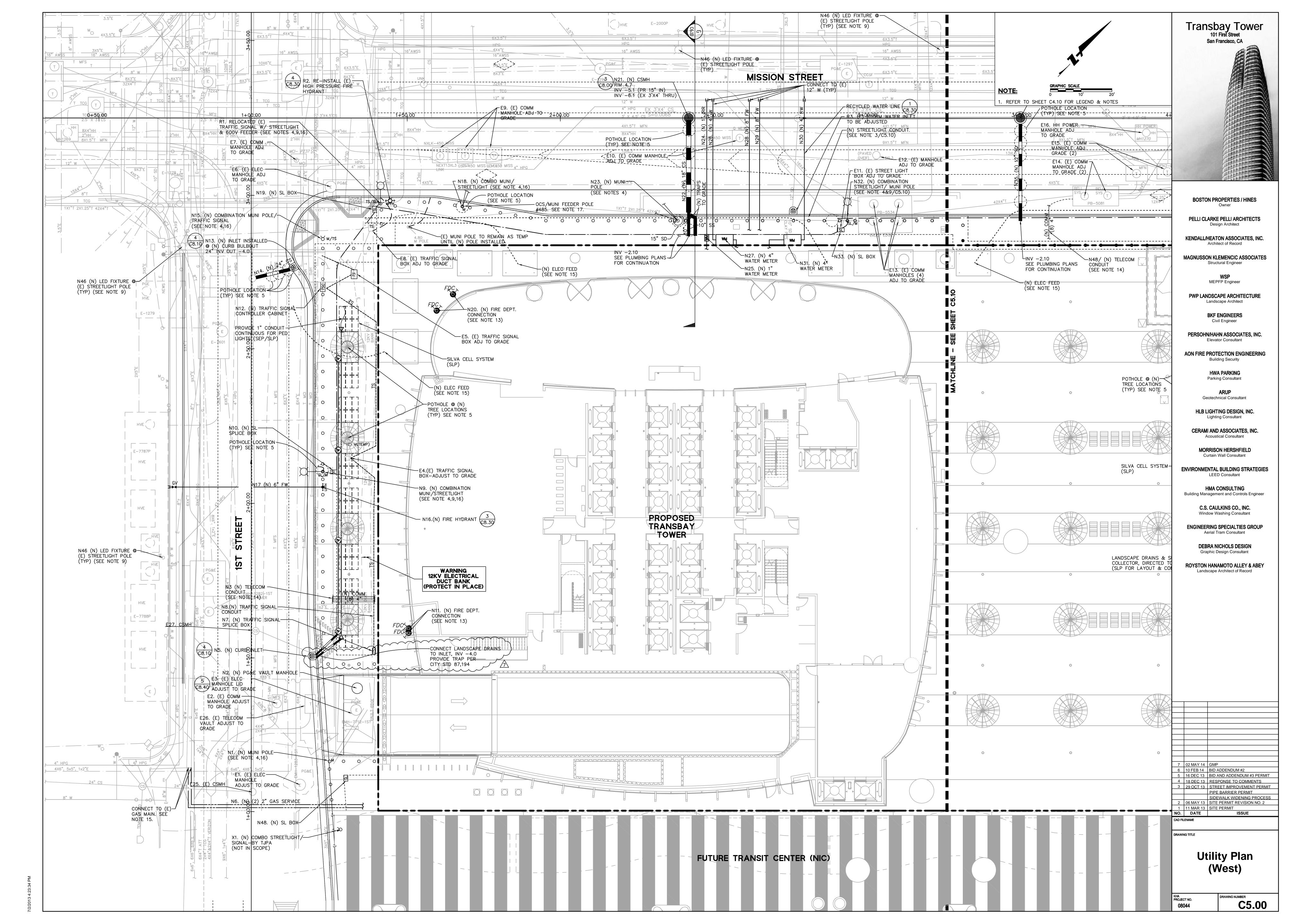
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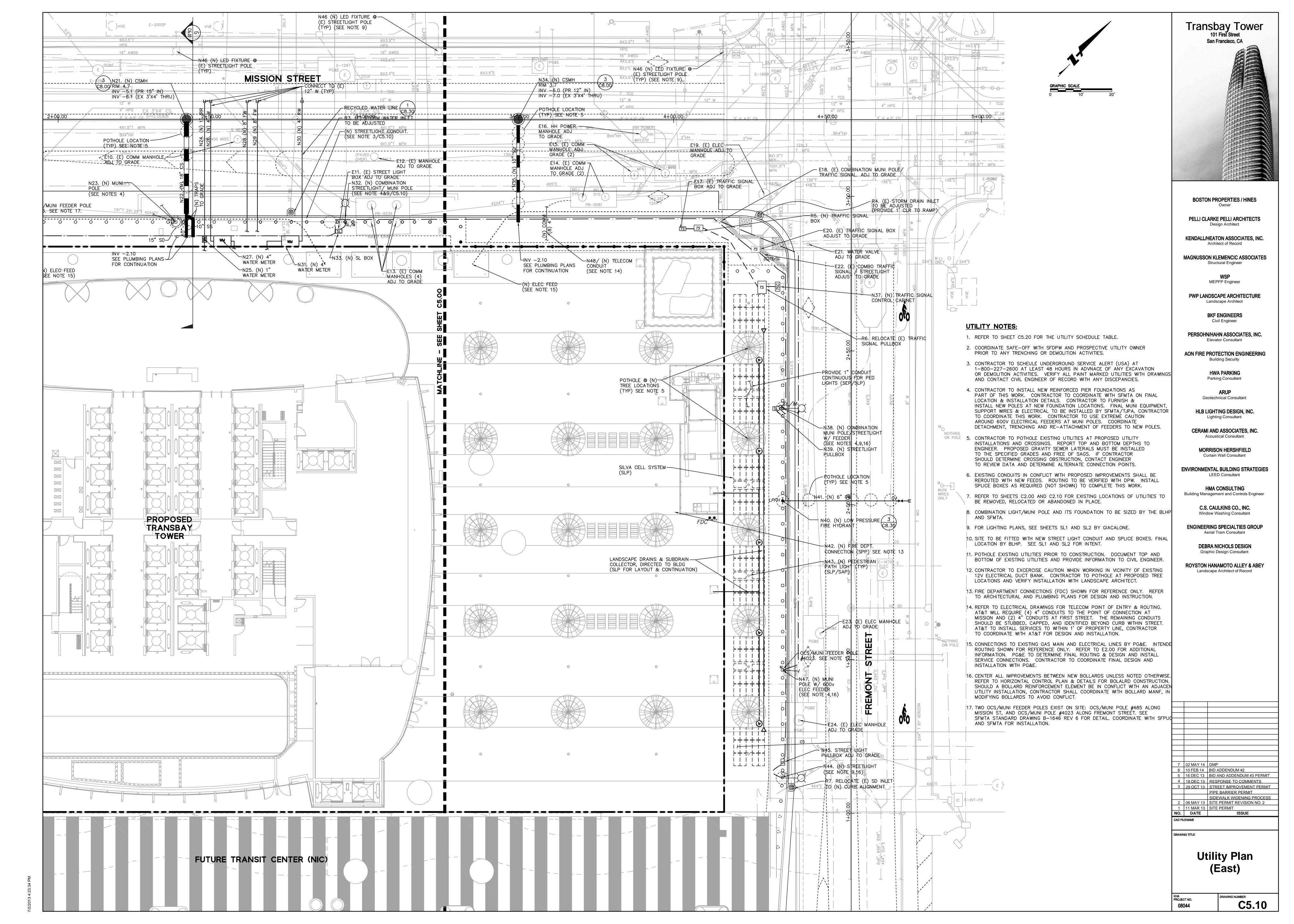












UTILITY LABEL LEGEND:

- R1. ITEM NUMBER FOR EXISTING UTILITY TO BE REMOVED OR RELOCATED FROM CURRENT LOCATION OR ABANDONED IN CURRENT LOCATION.
- E1. ITEM NUMBER FOR EXISTING UTILITY TO REMAIN IN CURRENT LOCATION, ADJUST TO FINISHED GRADE AS REQUIRED.
- N1. ITEM NUMBER FOR NEW PRPOSED UTILITY
- X1 ITEM NUMBER FOR UTILITY BY OTHERS/TJPA FOR REFERENCE ONLY

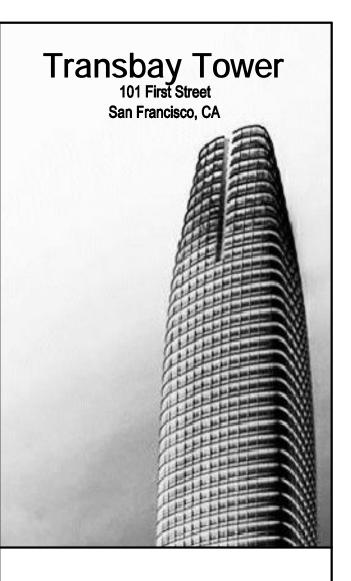
UTILITY SCHEDULE: TO BE UPDATED

	<u> </u>				TO BE OPDATED	
NO.	. ITEM DESCRIPTION	STREET	ACTION	AGENCY TO COORDINATE	STATION/OFFSET	NOTES
E E1		FIRST	ADJUST TO GRADE	PG&E	A:1+08.40 / 15.86 R	TRAFFIC CONTROL/BARRIER REQ'D
E2	(E) COMM MANHOLE	FIRST	ADJUST TO GRADE	MFS COMMUNICATIONS	A:1+34.80 / 8.39 R	TRAFFIC CONTROL/BARRIER REQ'D
E3		FIRST	ADJUST TO GRADE	PG&E	A: 1+31.53 / 32.75 R	TRAFFIC CONTROL/BARRIER REQ'D
E4		FIRST	ADJUST TO GRADE	SFMTA	A: 2+14.42 / 31.26 R	REPLACE BOX/LID AT OWNERS OPTION
<u>E5</u>		FIRST	ADJUST TO GRADE	SFMTA	A: 2+74.15 / 33.41 R	REPLACE BOX/LID AT OWNERS OPTION
		FIRST	ADJUST TO GRADE	PG&E	A: 3+02.51 / 25.82 R	TRAFFIC CONTROL/BARRIER REQ'D
		FIRST MISSION	ADJUST TO GRADE ADJUST TO GRADE	MCI SFMTA	A: 3+11.16 / 14.69 R	TRAFFIC CONTROL/BARRIER REQ'D TRAFFIC CONTROL/BARRIER REQ'D
E9		MISSION	ADJUST TO GRADE	NEXT LINK/GST/LEVEL 3	B:1+38.82 / 33.85 R B:1+69.48 / 12.25 R	TRAFFIC CONTROL/BARRIER REQ'D
		MISSION	ADJUST TO GRADE	QWEST	B: 2+58.59 / 6.43 R	TRAFFIC CONTROL/BARRIER REQ'D
		MISSION	ADJUST TO GRADE	BLHP/SFDPW	B: 2+91.44 / 36.29 R	TRAFFIC CONTROL/BARRIER REQ'D
		MISSION	ADJUST TO GRADE	SFDPW	B: 3+02.90 / 12.00 R	INALLIC CONTROL/ BARRIER REQ D
		MISSION	ADJUST TO GRADE	AT&T	B: 3+06.01 / 30.58 R	
		MISSION	ADJUST TO GRADE	BELL SYS	B: 3+74.17 / 25.19 R	
E15		MISSION	ADJUST TO GRADE	MFN	B: 3+92.37 / 17.70 R	
E16	(E) HH POWER MANHOLE	MISSION	ADJUST TO GRADE	HETCH HETCHY/SFPUC	B: 3+90.49 / 4.72 R	
		MISSION	ADJUST TO GRADE	SFMTA	B: 4+03.03 / 35.47 R	
		MISSION	ADJUST TO GRADE	SFMTA	B: 4+15.29 / 33.10 R	
		MISSION	ADJUST TO GRADE	PG&E	B: 4+29.52 / 24.21 R	TRAFFIC CONTROL/BARRIER REQ'D
		FREMONT	ADJUST TO GRADE	SFMTA	C: 2+82.71 / 30.95 L	
		FREMONT	ADJUST TO GRADE	SFDPW/SF WATER	C: 2+84.34 / 13.94 L	
	(E) COMBO TRAFFIC SIGNAL/STREETLIGHT		ADJUST TO GRADE	BLHP/SFDPW	C: 2+80.94 / 28.29 L	TDAFFIC CONTROL /DARRIED DEG'D
		FREMONT FREMONT	ADJUST TO GRADE ADJUST TO GRADE	PG&E PG&E	C:1+58.08 / 9.89 L	TRAFFIC CONTROL/BARRIER REQ'D
		FIRST	ADJUST TO GRADE	SFDPW	C:1+29.83 / 16.89 L A:1+05.96 / 0.64 R	TRAFFIC CONTROL/BARRIER REQ'D TRAFFIC CONTROL/BARRIER REQ'D
		FIRST	ADJUST TO GRADE	SFDPW SFDPW/PG&E	A: 1+05.96 / 0.64 R A: 1+34.62 / 19.17 R	TRAFFIC CONTROL/BARRIER REQ'D
		FIRST	ADJUST TO GRADE	SFDPW	A: 1+54.62 / 19.17 R A: 1+58.32 / 1.44 R	TRAFFIC CONTROL/BARRIER REQ'D
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R R1	RELOCATE (E) TRAFFIC SIGNAL	MISSION	RELOCATE	SFMTA	B:1+41.98 / 25.74 R	POTHOLE PRIOR TO INSTALL, CAMERA ON POLE TO REMAIN
R2	RELOCATE (E) HPFH	MISSION	RELOCATE	SFFD/SFDPW	B:1+45.10 / 25.78 R	PROVIDE (N) PIPE & FITTINGS & THRUST BLOCK PER CITY STD.
R3	(E) STORM DRAIN INLET	MISSION	RELOCATE	SFDPW	B: 2+75.90 / 30.25 R	INSTALL AT NEW CURB ALIGNMENT/ADJUST TO GRADE
R4		MISSION	RELOCATE	SFDPW	B: 4+27.91 / 31.24 R	SET AT NEW CURB ALIGNMENT/GRADE
R5		MISSION	RELOCATE	SFMTA	B: 4+08.17 / 35.19 R	REPLACES EXISTING BOX IN CONFLICT W/ BOLLARDS, INSTALL NEW CONDUIT
R6	RELOCATE (E) TRAFFIC SIGNAL PULLBOX		RELOCATE	SFMTA	C: 2+70.36 / 28.95 L	
R7	RELOCATE (E) STORM DRAIN INLET	FREMONT	RELOCATE	SFDPW	C:1+08.05 / 19.52 L	
N N14	(NI) AMUNU DOLE	FIDCT	DECION DV CENTA	CENTA	A.1.15.07. / 05.44.D	INICIALL EDN. 6. DOLE DED CENTA CDEO. WIDE ATTACHMENT DV CENTA
N N1 N2		FIRST FIRST	DESIGN BY SFMTA DESIGN BY PG&E	SFMTA PG&E	A: 1+15.97 / 25.44 R A: 1+39.74 / 34.41 R	INSTALL FDN & POLE PER SFMTA SPEC. WIRE ATTACHMENT BY SFMTA
N3		ALL	DESIGN BY PG&E	SFDPW/PG&E	A: 1+39.74 / 34.41 R	
N4	NOT USED	ALL		SFUFW/FG&E		
N5		FIRST		SFDPW	A: 1+46.84 / 20.21 R	CONNECT TO (E) LATERAL PER CITY STD.
N6		FIRST		PG&E	A: 1+01.98	CONNECTION BY PG&E, PROVIDE CURB VALVE AS REQ'S BY DOC. J-15
N7	(N) TRAFFIC SIGNAL SPLICE BOX	FIRST		SFMTA	A: 1+51.82 / 39.87 R	FINAL METHOD & LOCATION BY SFMTA
N8		FIRST		SFMTA/BLHP	A:1+72.64 / 39.81 R	FINAL DESIGN SIZE/ROUTING BY SFMTA
N9		FIRST		SFMTA/BLHP/SFDPW	A: 2+10.08 / 23.25 R	
N10	(N) STREET LIGHT CONDUIT SPLICE BOX	FIRST		SFMTA	A: 2+09.99/ 26.71 R	
		FIRST		SFFD	A:1+58.45 / 51.10 R	REFER TO PLUMBING PLANS FOR CONTINUATION
		FIRST		SFMTA	A: 2+70.11 / 23.28 R	CONSTRUCT NEW PAD/PULL NEW CONDUITS AS REQ'D
		FIRST		SFDPW	A: 2+76.46 / 13.89 R	X
		FIRST		SFDPW	A: 2+74.38 / 7.08 R	CONNECT (N) INLET TO (E) MH, INSTALL PER CITY STD.
	(N) COMBO MUNI POLE/TRAFFIC SIGNAL			SFMTA	A: 2+85.55 / 23.25 R	INSTALL FDN & POLE PER SFMTA SPEC. WIRE ATTACHMENT BY SFMTA
		FIRST FIRST		SFFD/SFDPW	A: 2+05.06 / 23.25 R	INSTALL PER CITY STD
		MISSION		SFFD/SFDPW SFMTA/BLHP/SFDPW	A: 2+03.13 B: 1+68.54 / 28.65 R	PROVIDE GATE VALVE, CONNECT TO (E) 12" W @ MISSION INSTALL FDN & POLE PER SFMTA SPEC. WIRE ATTACHMENT BY SFMTA
	(N) COMBO MUNI/STREETLIGHT (N) STREET LIGHT CONDUIT SPLICE BOX		1	BLHP/SFDPW	B: 1+68.54 / 28.65 R B: 1+40.06 / 29.58 R	Y X I OLE FER SENTA SEEC. WIRE ATTACHMENT BY SENTA
		MISSION	1	SFFD	B: 1+62.85 / 59.81 R	SEE PLUMBING PLANS FOR CONTINUATION
		MISSION		SFDPW-HYDRAULICS	B: 2+42.00 / 0.09 L	POTHOLE EXISTING UTILITIES PRIOR TO INSTALL/VERIFY WITH ENGINEER
		MISSION		SFDPW-HYDRAULICS	B: 2+41.99 / 15.51 R	POTHOLE EXISTING UTILITIES PRIOR TO INSTALL/VERIFY WITH ENGINEER
N23	3 (N) MUNI POLE	MISSION		SFMTA	B: 2+38.49 / 33.25 R	INSTALL FDN & POLE PER SFMTA SPEC. WIRE ATTACHMENT BY SFMTA
N24	(N) 1" IRRIGATION WATER SERVICE	MISSION		SF WATER/SFDPW	B: 2+47.85	SF WATER INSTALLS TO METER
		MISSION		SF WATER/SFDPW	B: 2+47.78 / 38.88 R	INSTALLED BY SF WATER
		MISSION		SF WATER/SFDPW	B: 2+49.85	SF WATER INSTALLS TO METER
		MISSION		SF WATER/SFDPW	B: 2+53.68 / 39.33 R	INSTALLED BY SF WATER
		MISSION		SF WATER/SFDPW/SF FIRE	B: 2+61.69	INSTALLED BY SF WATER/SEE PLUMBING FOR CONTINUATION
		MISSION		SF WATER/SFDPW/SF FIRE	B: 2+65.01	INSTALLED BY SF WATER/SEE PLUMBING FOR CONTINUATION
		MISSION		SF WATER/SFDPW	B: 2+79.52	SF WATER INSTALLS TO METER
		MISSION	1	SF WATER/SFDPW	B: 2+75.69 / 39.48 R	INSTALLED BY SF WATER
	2 (N) COMBO MUNI/STREETLIGHT 3 (N) STREET LIGHT CONDUIT SPLICE BOX	MISSION		SFMTA/BLHP/SFDPW	B: 2+93.49 / 33.25 R B: 2+91.44 / 36.29 R	INSTALL FDN & POLE PER SFMTA SPEC. WIRE ATTACHMENT BY SFMTA
		MISSION	1	BLHP/SFDPW SFDPW	B: 3+49.66 / 0.10 L	INSTALL PER CITY STD
		MISSION		SFDPW	B: 3+49.66 / 17+56 R	
	NOT USED		1	5, 5, 1,	2.3 13.33 / 1/ T 30 K	THE PER SITE OF THE
		FREMONT		SFMTA	C: 2+70.58 / 23.87 L	
		FREMONT		SFMTA	C: 2+31.08 / 22.25 L	
		FREMONT		SFDPW	C: 2+31.01 / 24.42 L	
N40	(N) STANDARD FIRE HYDRANT (LPFH)	FREMONT		SFDPW	C: 2+01.06 / 22.25 L	
N41	(N) 6" FIRE WATER SERVICE	FREMONT		SFFD/SFDPW	C: 2+01.04	PROVIDE GATE VALVE, INSTALL PER CITY STANDARDS
		FREMONT		SFFD	C:1+97.42 / 57.42 L	SEE PLUMBING PLANS FOR CONTINUATION
		FREMONT			C:1+76.80 / 33.33 L	SEE LANDSCAPE & ELECTRICAL PLANS
		FREMONT		BLHP/SFDPW	C:1+11.08 / 22.37 L	
		FREMONT		BLHP/SFDPW	C:1+16.22 / 22.18 L	DOUBLE TO CURRY TO THE PROPERTY OF THE PROPERT
INIAC		ALL FREMONT		BLHP	0.4.40.00 / 0.10= :	PROJECT TO SUPPLY FIXTURES/BLHP TO INSTALL
	7 /	FREMONIT		SFMTA	C:1+46.08 / 24.25 L	INSTALL FDN & POLE PER SFMTA SPEC. WIRE ATTACHMENT BY SFMTA
N47				DI LID (CEDDW)	0.1.1064 / 70.70 0	l l
N47		FIRST		BLHP/SFDPW	C:1+10.64 / 30.72 R	
N47	3 (N) STREET LIGHT PULL BOX		NOT IN SCOPE	BLHP/SFDPW TJPA/SFMTA	•	BY OTHERS-COORDINATE WITH TJPA

CONTACT INFORMATION SHOWN BELOW ARE PRELIMINARY POINTS OF CONTACT TO ASSIST WITH CONTRACTOR

COORDINATION PRIOR TO CONSTRUCTION. CONTACT INFORMATION

DEPARTMENT/COMPANY	CONTACT NAME	CONTACT NUMBER	NOTES			
AT&T	HUAN HUYNH/IKE KU	(415) 644-7040	COORDINATE ALL ADJUSTMENTS TO AT&T EQUIPMENT			
PG&E	MIKE BALMY	(415) 695-3513	COORDINATE ALL ADJUSTMENTS TO AT&T EQUIPMENT			
SFMTA	TIM LIPPS	(415) 554-9227	OVERHEAD MUNI POLES & WIRES			
SFMTA	NORMAN WONG	(415) 701-4600	MUNI			
SFDPW-WATER	MICHAEL GARDINER	(415) 550-4918	WATER UTILITIES AND SERVICE			
SFDPW-BLHP	RANJIT PARHAR	(415) 227-8507	STREETLIGHTING			
SFDPW-BSM	_	(415) 554-5810	SIDEWALK & STREET IMPROVEMENTS			
SFDPW	_	(415) 554-6920	GENERAL QUESTIONS/INSPECTIONS			
JSA-UNDERGROUND SERVICE ALERT	_	(800) 227-2600	UTILITY MARKING PRIOR TO START OF WORK			



BOSTON PROPERTIES / HINES

PELLI CLARKE PELLI ARCHITECTS Design Architect

KENDALL/HEATON ASSOCIATES, INC. Architect of Record

MAGNUSSON KLEMENCIC ASSOCIATES Structural Engineer

MEPFP Engineer

PWP LANDSCAPE ARCHITECTURE
Landscape Architect

BKF ENGINEERS

PERSOHN/HAHN ASSOCIATES, INC.

Elevator Consultant

Civil Engineer

AON FIRE PROTECTION ENGINEERING

Building Security

HWA PARKING

Parking Consultant

Geotechnical Consultant HLB LIGHTING DESIGN, INC.

CERAMI AND ASSOCIATES, INC.

Acoustical Consultant

Lighting Consultant

MORRISON HERSHFIELD

ENVIRONMENTAL BUILDING STRATEGIES

LEED Consultant

Curtain Wall Consultant

HMA CONSULTING Building Management and Controls Engineer

C.S. CAULKINS CO., INC. Window Washing Consultant

ENGINEERING SPECIALTIES GROUP

Aerial Tram Consultant

DEBRA NICHOLS DESIGN Graphic Design Consultant

ROYSTON HANAMOTO ALLEY & ABEY Landscape Architect of Record

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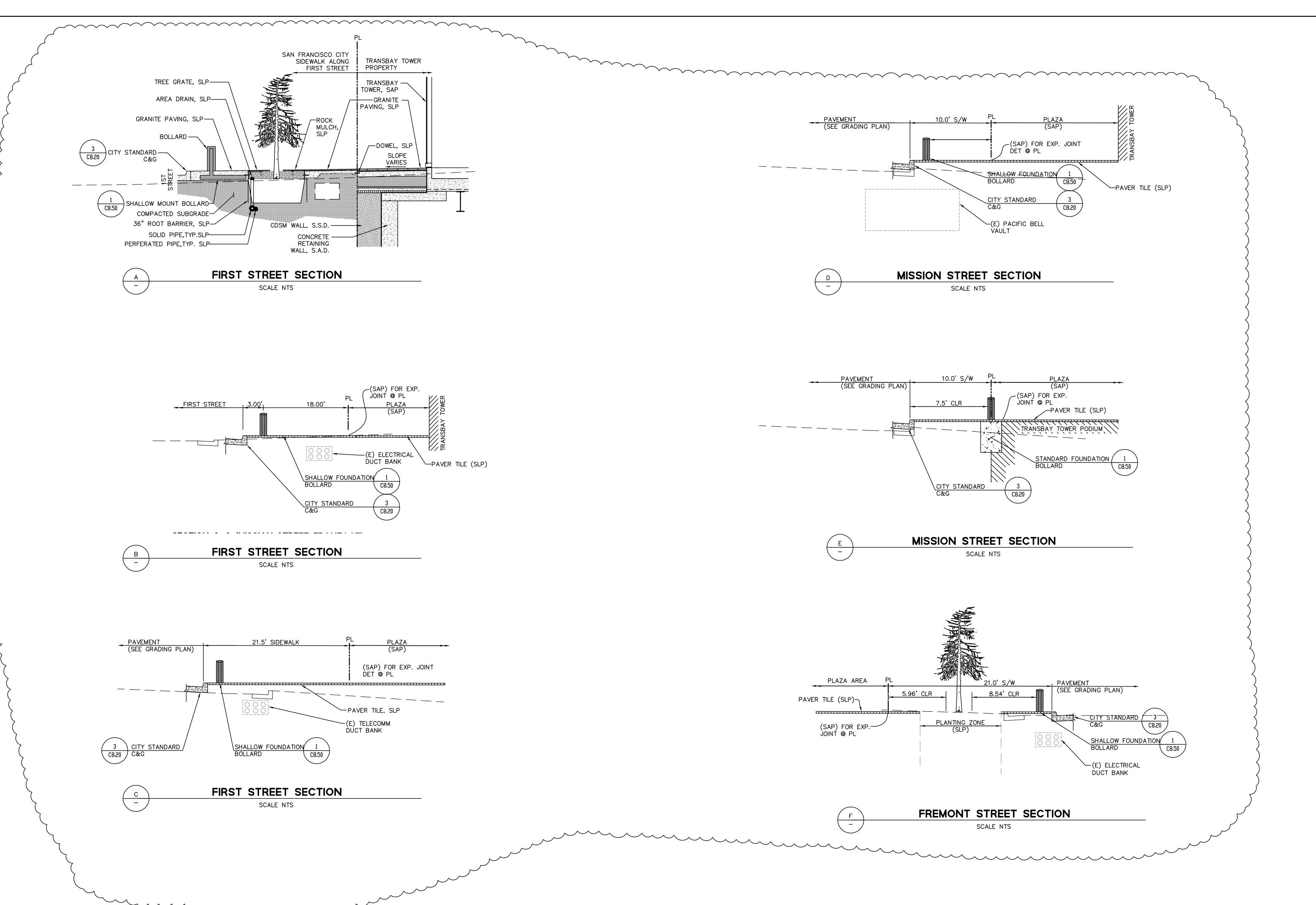
PIPE BARRIER PERMIT SIDEWALK WIDENING PROCESS
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1 11 MAR 13 SITE PERMIT
NO. DATE ISSUE

DRAWING TITLE

Utility Schedule

KHA PROJECT NO. 08044

DRAWING NUMBER C5.20



Transbay Tower
101 First Street San Francisco, CA

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BKF ENGINEERS Civil Engineer

PERSOHN/HAHN ASSOCIATES, INC. Elevator Consultant

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> **HWA PARKING** Parking Consultant

Geotechnical Consultant

HLB LIGHTING DESIGN, INC. Lighting Consultant

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Building Management and Controls Engineer

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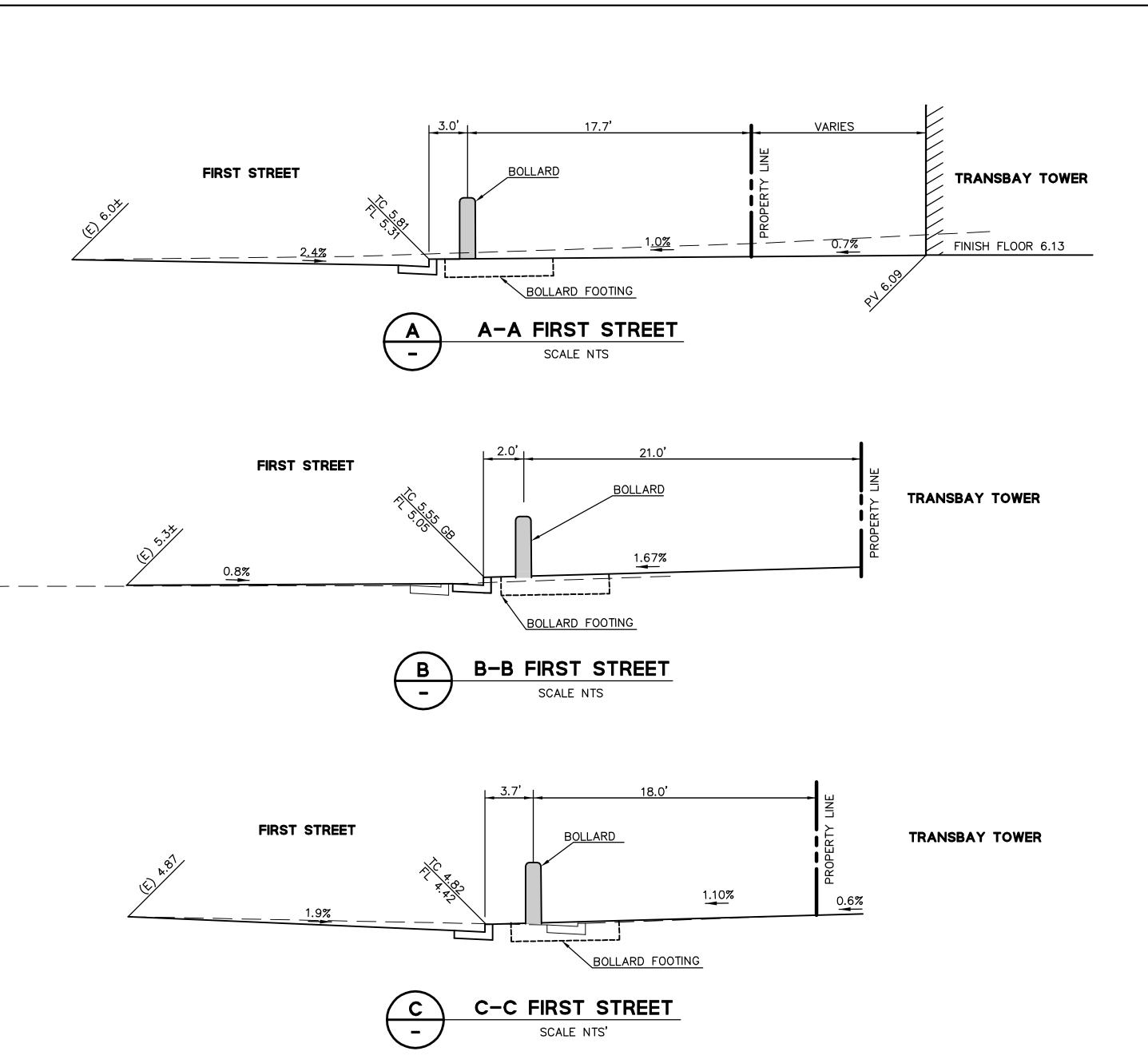
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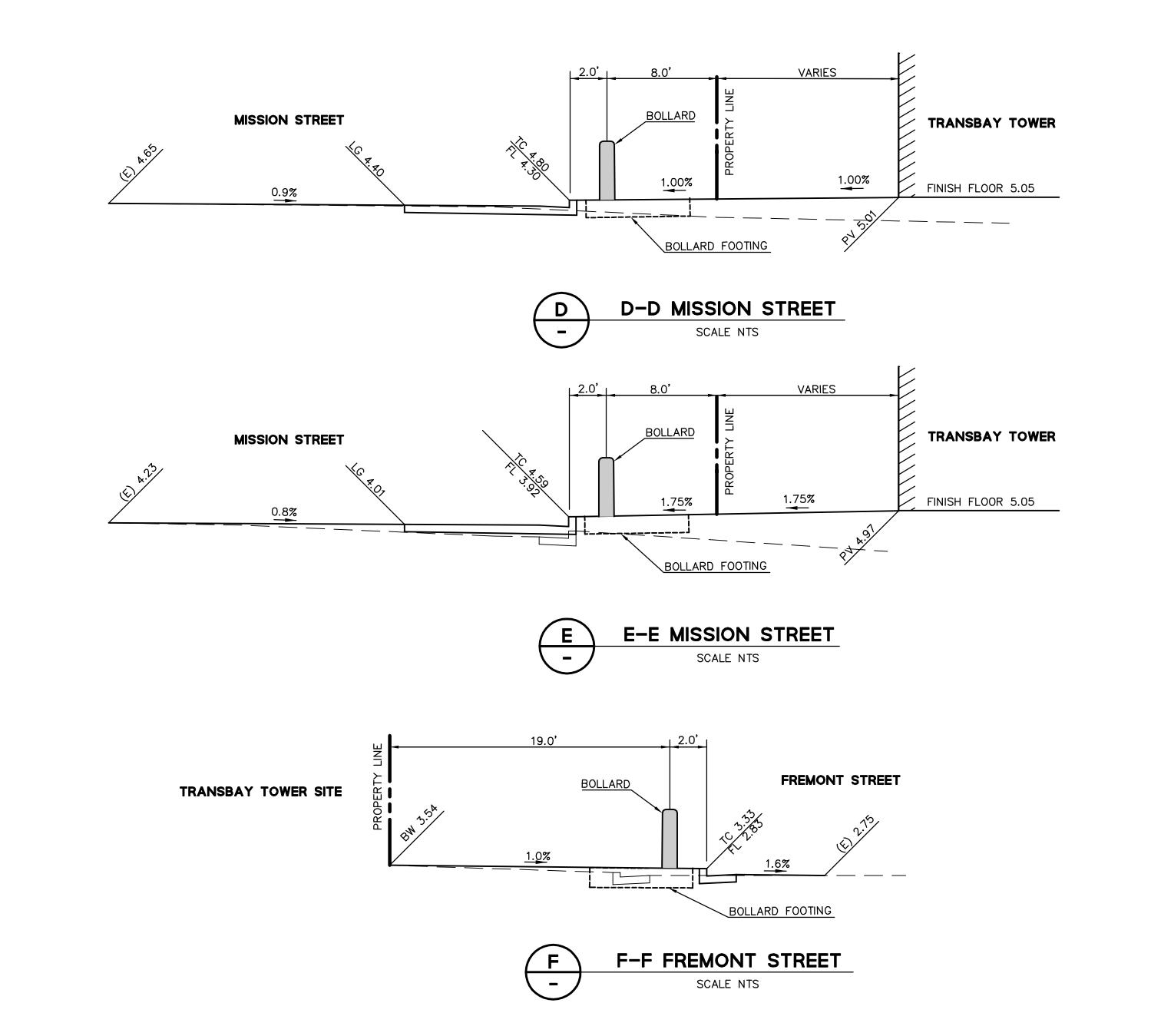
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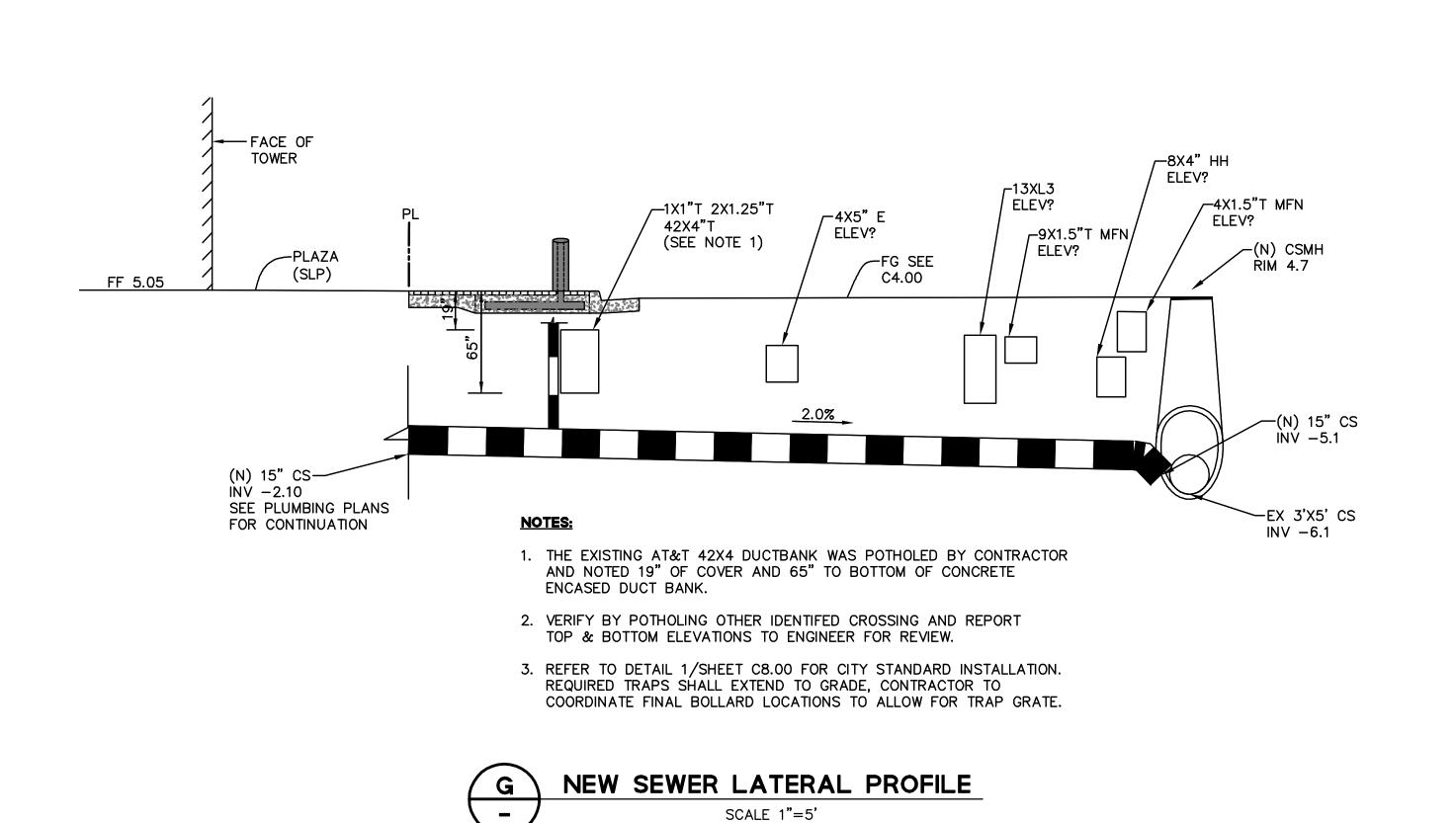
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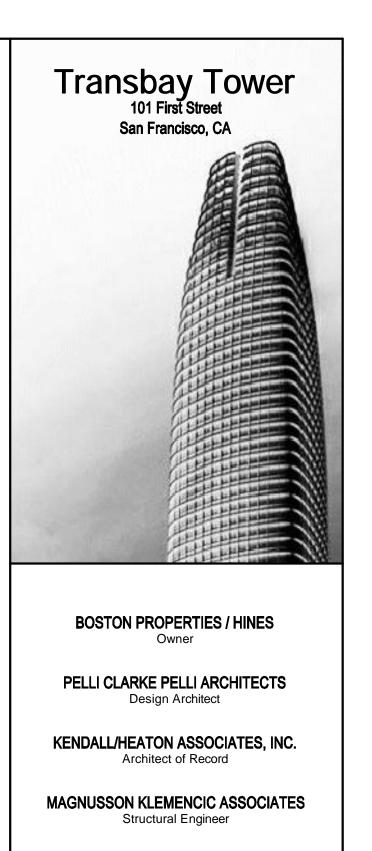
KHA PROJECT NO. 08044

DRAWING NUMBER C6.00









MEPFP Engineer

PWP LANDSCAPE ARCHITECTURE
Landscape Architect

BKF ENGINEERS Civil Engineer

PERSOHN/HAHN ASSOCIATES, INC. Elevator Consultant

AON FIRE PROTECTION ENGINEERING **Building Security**

> **HWA PARKING** Parking Consultant

Geotechnical Consultant

Lighting Consultant

HLB LIGHTING DESIGN, INC.

CERAMI AND ASSOCIATES, INC.

Acoustical Consultant

MORRISON HERSHFIELD Curtain Wall Consultant

ENVIRONMENTAL BUILDING STRATEGIES LEED Consultant

HMA CONSULTING Building Management and Controls Engineer

> C.S. CAULKINS CO., INC. Window Washing Consultant

ENGINEERING SPECIALTIES GROUP Aerial Tram Consultant

DEBRA NICHOLS DESIGN

ROYSTON HANAMOTO ALLEY & ABEY Landscape Architect of Record

Graphic Design Consultant

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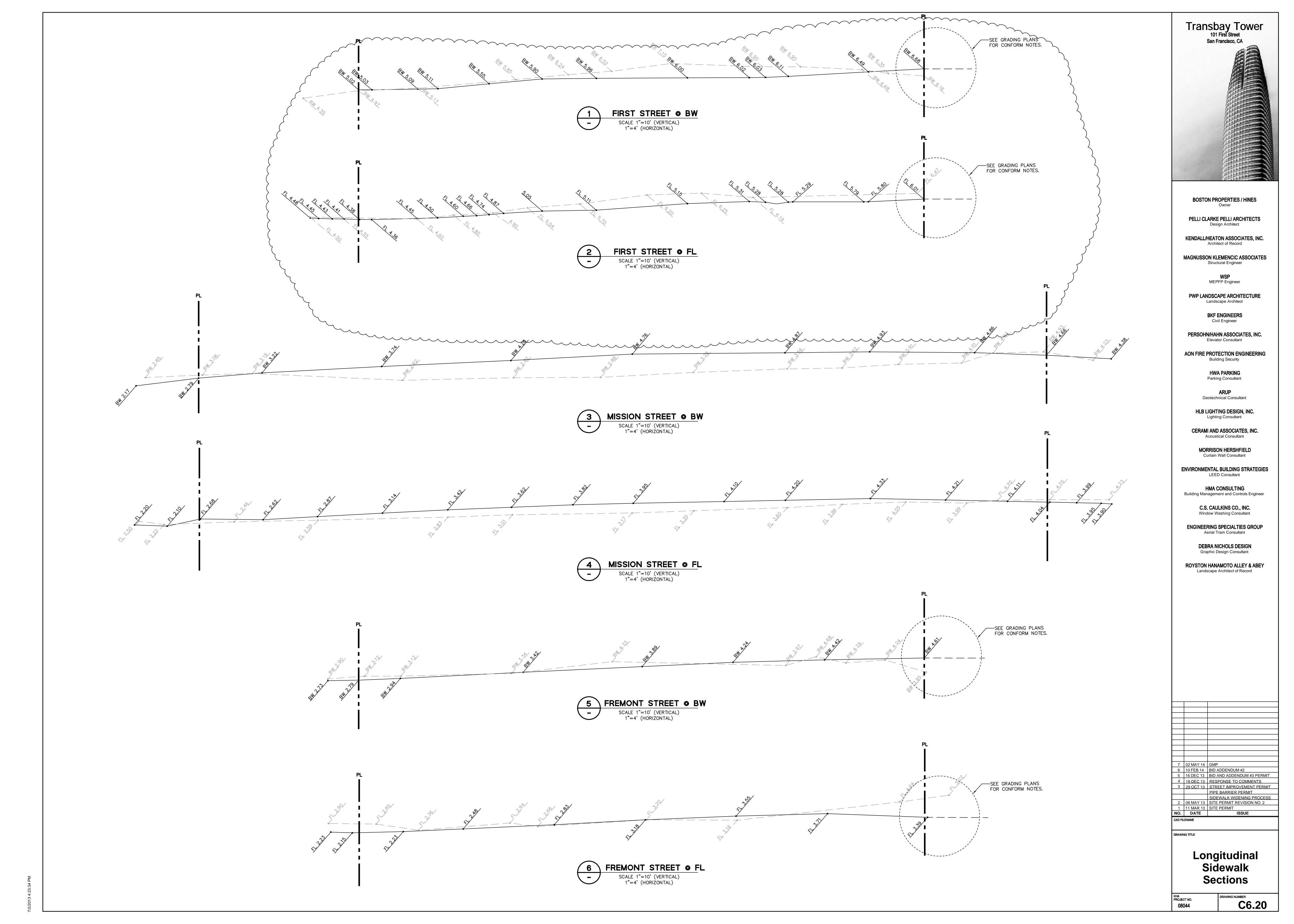
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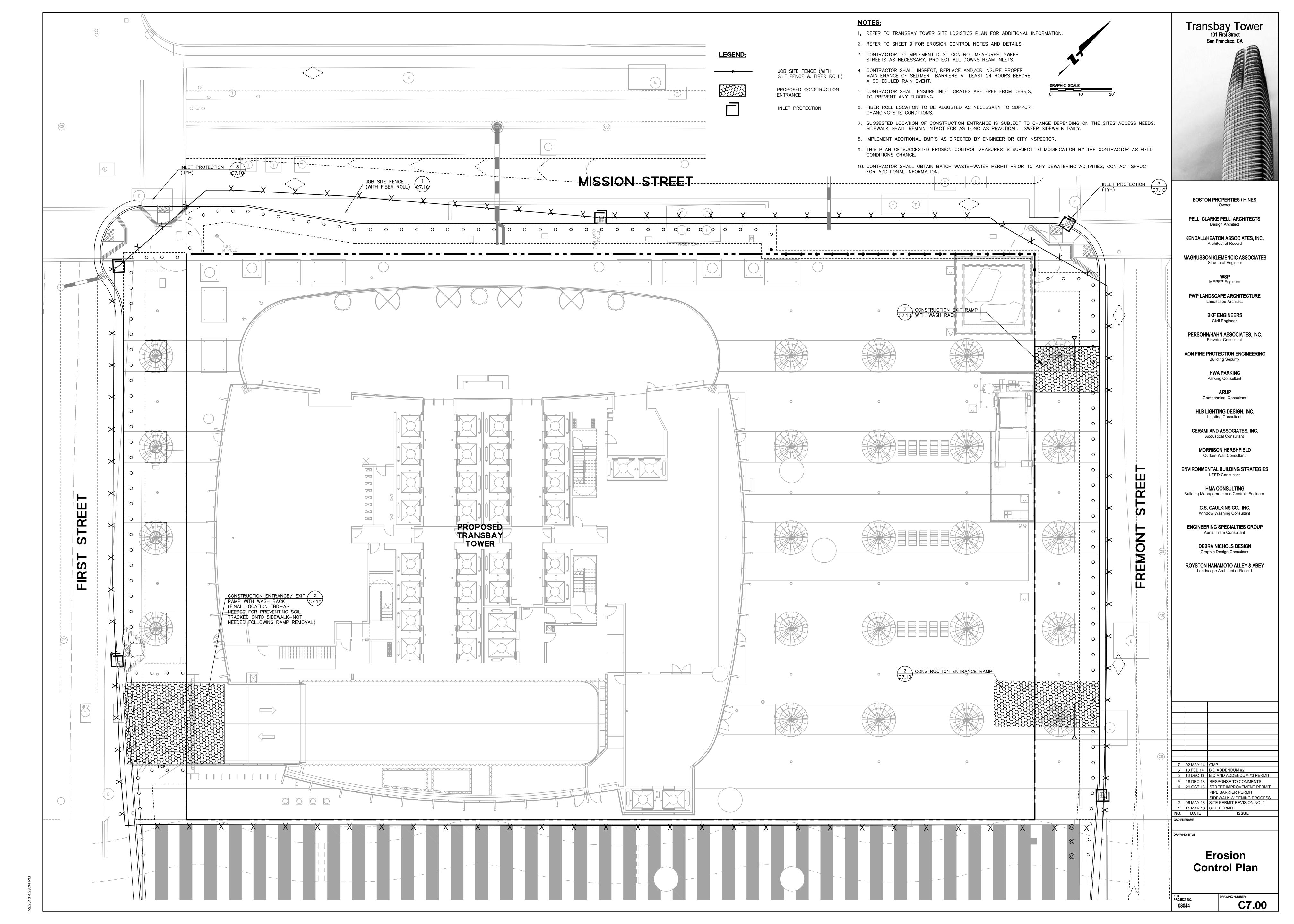
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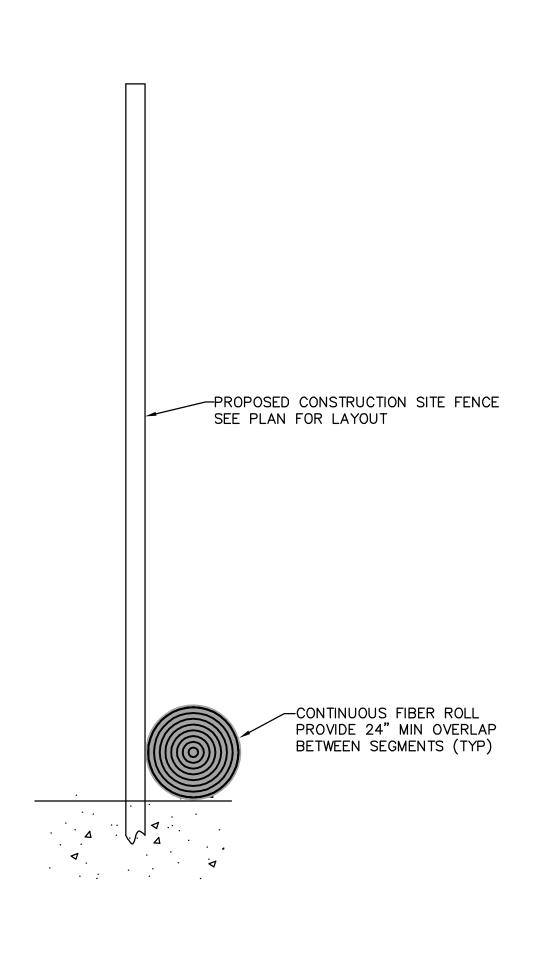
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C6.10



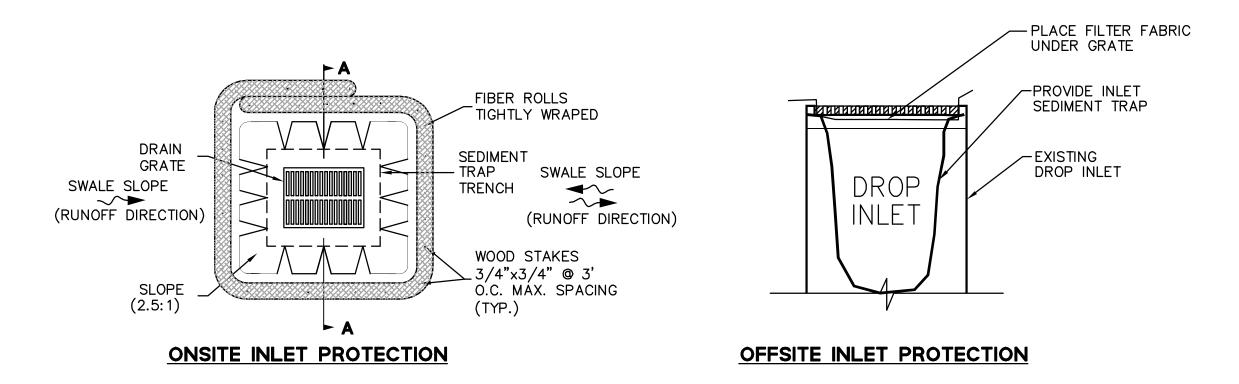




NOTES

- 1. SILT FENCE SHALL BE STAKED OR CLIPPED ALONG CONSTRUCTION SIDE OF
- CONSTRUCTION FENCING, IN BACK OF FIBER ROLLS.
- 2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" MAXIMUM RECOMMENDED STORAGE HEIGHT.
- 3. REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA THAT WILL NOT CONTRIBUTE TO SEDIMENT OFF—SITE AND CAN BE PERMANENTLY STABILIZED.
- 4. USE REED & GRAHAM, INC. GEOSYNTHETICS STRAW WATTLE FIBER ROLL (COMES IN 9" X 25' ROLLS) OR EQUIVALENT.

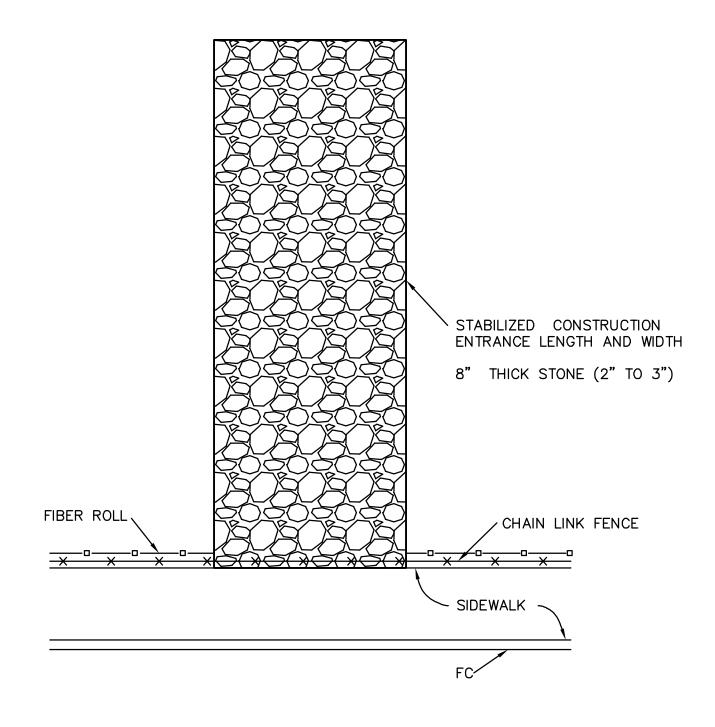




<u>NOTE</u>

- 1. PLACE FIBER ROLLS AROUND THE INLET CONSISTENT WITH DROP INLET GRAVEL BAG PROTECTION AND CURB INLET GRAVEL BAG PROTECTION DETAILS SHOWN ON THIS SHEET. ROLLS ARE TUBES MADE FROM STRAW BOUND W/ PLASTIC NETTING, APPROX. 8"DIAMETER AND 20 TO 30 FEET LONG.
- 2. FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE FIBER ROLL IN A TRENCH, 3" 4" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND FIBER ROLL.
- 3. THE TOP OF THE STRUCTURE (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BY-PASSING THE INLET. EXCAVATION OF A BASIN ADJACENT TO THE DROP INLET OR A TEMPORARY DIKE ON THE DOWNSLOPE OF THE STRUCTURE MAY BE NECESSARY.
- 4. TEMPORARY REMOVABLE TRASH RACK: IF SITE CONDITIONS WARRANT, PROVIDE AND INSTALL TRASH RACK MADE FROM GALVANIZED WELDED WIRE FABRIC WITH OPENING SIZE 2" BY 2" FORMED AND ATTACHED TO THE INLET TOP GRATE WITH STEEL WIRE TIES AND BURRY WELDED WIRE FABRIC 4" MINIMUM BELOW TEMPORARY ROUGH GRADE GROUND ELEVATION.

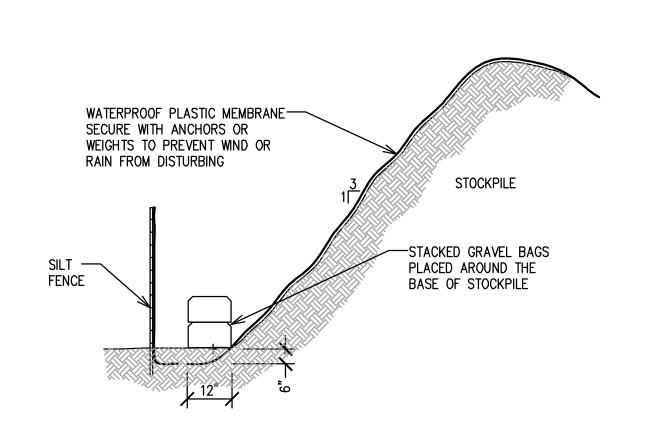




NOTES

- 1. THIS DETAIL SHALL APPLY ONLY DURING MAIN EXCAVATION, WITH SOIL RAMP EXTENDING TO SURFACE FOR ACCESS OF EQUIPMENT.
- 2. ALL CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT—OF—WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USE TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT—OF—WAYS SHALL BE REMOVED IMMEDIATELY.
- 3. WHEELS SHALL BE CLEAN PRIOR TO ENTRANCE ONTO PUBLIC RIGHT—OF—WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE THROUGH USE OF INLET PROTECTION (E.G. SAND BAGS OR OTHER APPROVED METHODS).
- 4. THE MATERIAL FOR CONSTRUCTION OF THE PAD SHALL BE 3" TO 6" STONE.
- 5. THE THICKNESS OF THE PAD SHALL NOT BE LESS THAN 12".
- 6. THE WIDTH OF THE PAD SHALL NOT BE LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
- 7. THE LENGTH OF THE PAD SHALL NOT BE LESS THAN 50'.







EROSION & SEDIMENT CONTROL NOTES:

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES TO PUBLIC AND/OR PRIVATELY OWNED AND MAINTAINED ROADS CAUSED BY THE CONTRACTOR'S GRADING ACTIVITIES, AND SHALL BE RESPONSIBLE FOR THE CLEANUP OF ANY MATERIAL SPILLED ON ANY PUBLIC ROAD ON THE HAUL ROUTE. ADJACENT PUBLIC ROADS SHALL BE CLEANED AT THE END OF EACH WORKING DAY.
- 2. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES.
- 3. DURING CONSTRUCTION, THE MAINTENANCE OF SUMMERTIME DRAINAGE THROUGH THE SITE IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. MAINTENANCE, MONITORING, AND INSPECTION SHALL BE CONDUCTED ACCORDING TO BEST MANAGEMENT PRACTICES. TRAINING OF INSPECTION PERSONNEL WILL BE CONDUCTED PRIOR TO IMPLEMENTATION OF THE MONITORING PROGRAM. THE MONITORING PROGRAM SHALL INCLUDE REGULAR SITE INSPECTIONS AND REPORTS. IN ADDITION, MONITORING FORMS AND COMPLIANCE CERTIFICATION SHALL BE PROVIDED TO THE OWNER AND ENGINEER BY JULY 1 FOR THE PREVIOUS YEARS ACTIVITIES.
- 5. THE NAME, ADDRESS, AND 24 HOUR TELEPHONE NUMBER OF THE PERSON RESPONSIBLE FOR IMPLEMENTATION OF EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE PROVIDED TO THE CONSTRUCTION MANAGER AND THE CITY.
- 6. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED. CHANGES TO THIS EROSION CONTROL PLAN SHALL BE MADE TO MEET FIELD CONDITIONS ONLY WITH THE APPROVAL OF OR AT THE DIRECTION OF THE PROJECT INSPECTOR.
- 7. THE EROSION CONTROL PLAN COVERS ONLY THE FIRST WINTER DURING WHICH CONSTRUCTION IS TO TAKE PLACE. PLANS ARE TO BE RESUBMITTED PRIOR TO SEPTEMBER 1ST OF EACH SUBSEQUENT YEAR UNTIL THE SITE IMPROVEMENTS ARE ACCEPTED BY CONSTRUCTION MANAGER, THE ARCHITECT AND THE ENGINEER.
- 8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT AND REPAIR ALL EROSION CONTROL FACILITIES AT THE END OF EACH WORK DAY DURING THE RAINY SEASON.
- 9. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DURING GRADING OPERATION, BEFORE OCTOBER 1 AND PRIOR TO INSTALLATION OF THE STORM DRAINAGE SYSTEM. SUCH ADDITIONAL MEASURES WILL BE CONTINGENT UPON THE STAGE OF GRADING OPERATION. THE CONTRACTOR SHALL IMPLEMENT ANY ADDITIONAL EROSION CONTROL MEASURES AS REQUIRED BY THE ENGINEER.
- 10. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES AND MAKE ALL NECESSARY REPAIRS AFTER EACH STORM EVENT.
- 11. THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. IN GENERAL, THE CONTRACTOR IS RESPONSIBLE FOR KEEPING SEDIMENT—LADEN STORM WATER RUNOFF FROM LEAVING THE SITE. STRAW WATTLES, SAND BAGS, AND SILT FENCES SHALL BE USED BY THE CONTRACTOR ON AN AS NEEDED BASIS TO INHIBIT SILT FROM LEAVING THE SITE AND ENTERING THE STORM DRAIN SYSTEM. PROTECT DOWNSTREAM CATCH BASINS & DRAIN INLETS AS NECESSARY. ALL EXISTING, TEMPORARY, OR PERMANENT CATCH BASINS SHALL USE ONE OF THE SEDIMENT BARRIERS OR INSERTS SHOWN UNTIL UPSTREAM SOILS ARE STABILIZED.
- 12. THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED PERMITS PRIOR TO CONSTRUCTION.
- 13. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE OPERABLE YEAR ROUND OR UNTIL VEGETATION IS ESTABLISHED ON UPSTREAM DISTURBED SURFACES.
- 14. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT BORROW AND TEMPORARY STOCKPILES WITH APPROPRIATE EROSION CONTROL MEASURES (TARPS, STRAW WATTLES, SILT FENCES ETC.)
 TO ENSURE SILT DOES NOT LEAVE THE SITE OR ENTER THE STORM DRAIN SYSTEM.
- 15. ALL TRUCK TIRES SHALL BE CLEAN PRIOR TO EXITING THE PROPERTY.
- 16. DURING PERIODS WHEN STORMS ARE FORECAST —

 A. EXCAVATED SOILS SHOULD NOT BE PLACED IN STREETS OR ON PAVED AREAS.

 B. WHERE STOCKPILING IS NECESSARY, USE A TARPAULIN OR SURROUND THE STOCKPILED MATERIAL WITH STRAW BALES, SILT FENCE, OR OTHER RUNOFF
 - CONTROLS.
 C. THOROLICHLY SWEED ALL DAVED AREAS EXPOSED TO SOIL EXCAVATION
- C. THOROUGHLY SWEEP ALL PAVED AREAS EXPOSED TO SOIL EXCAVATION AND PLACEMENT.
- DURING PERIODS WHEN STORMS ARE NOT FORECAST —

 A. PREVENT STOCKPILED MATERIAL FROM ENTERING THE STORM DRAIN SYSTEM.

 B. THOROUGHLY REMOVE LOOSE SOIL VIA SWEEPING FOLLOWING REMOVAL OF DIRT.
- 17. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CURRENT COPY OF THE APPROVED
- EROSION AND SEDIMENT CONTROL PLAN (ESCP) AND KEEPING IT ON SITE AT ALL TIMES. THE CONTRACTOR SHALL REVIEW THE ESCPAND MAINTAIN THE SITE AS REQUIRED.
- 18. COVER EXPOSED SOIL AT STREET/SIDEWALK LEVEL WITH EROSION CONTROL BLANKET, NORTH AMERICAN GREEN S75BN, OR APPROVED EQUIVALENT.

Transbay Tower
101 First Street
San Francisco, CA

BOSTON PROPERTIES / HINES

PELLI CLARKE PELLI ARCHITECTS

Design Architect

KENDALL/HEATON ASSOCIATES, INC.

Architect of Record

Structural Engineer

MAGNUSSON KLEMENCIC ASSOCIATES

WSPMEPFP Engineer

PWP LANDSCAPE ARCHITECTURE

Landscape Architect

BKF ENGINEERS

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Civil Engineer

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ARUPGeotechnical Consultant

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MORRISON HERSHFIELD

Curtain Wall Consultant

ENVIRONMENTAL BUILDING STRATEGIES

Acoustical Consultant

LEED Consultant

HMA CONSULTING

Building Management and Controls Engineer

C.S. CAULKINS CO., INC. Window Washing Consultant

ENGINEERING SPECIALTIES GROUP
Aerial Tram Consultant

Graphic Design Consultant

DEBRA NICHOLS DESIGN

ROYSTON HANAMOTO ALLEY & ABEY
Landscape Architect of Record

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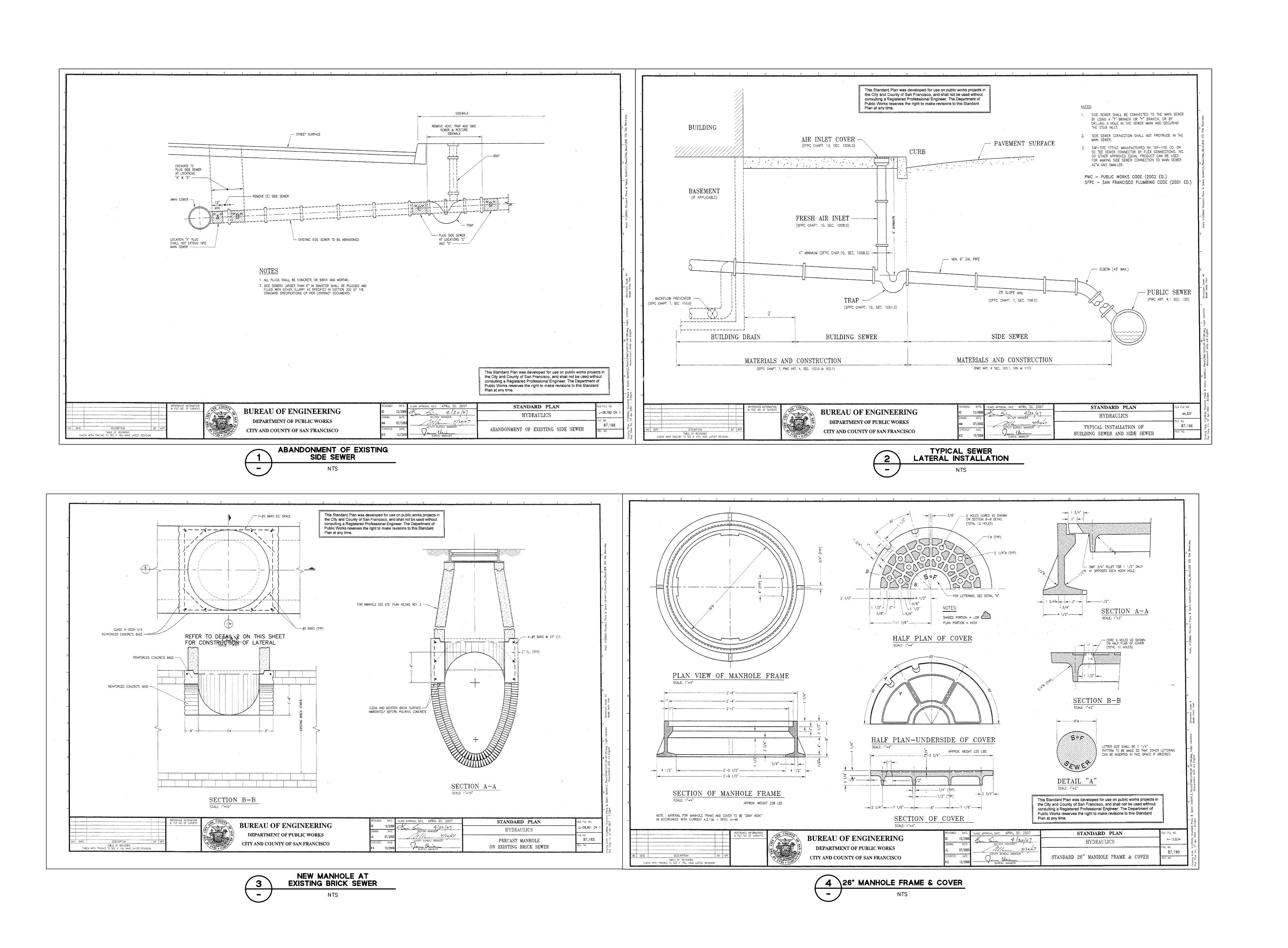
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Erosion
Control Notes
and Details

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C7.10



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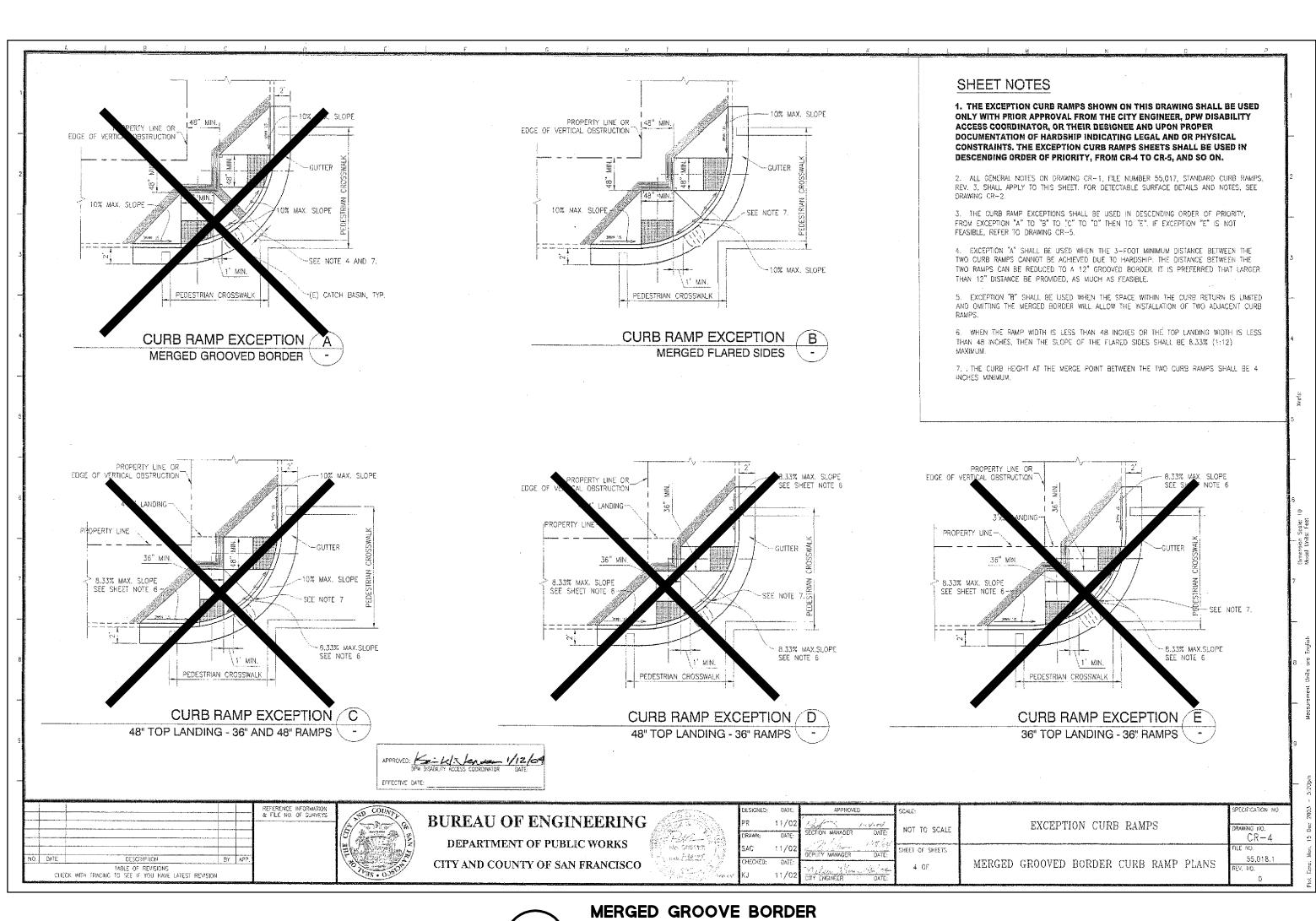
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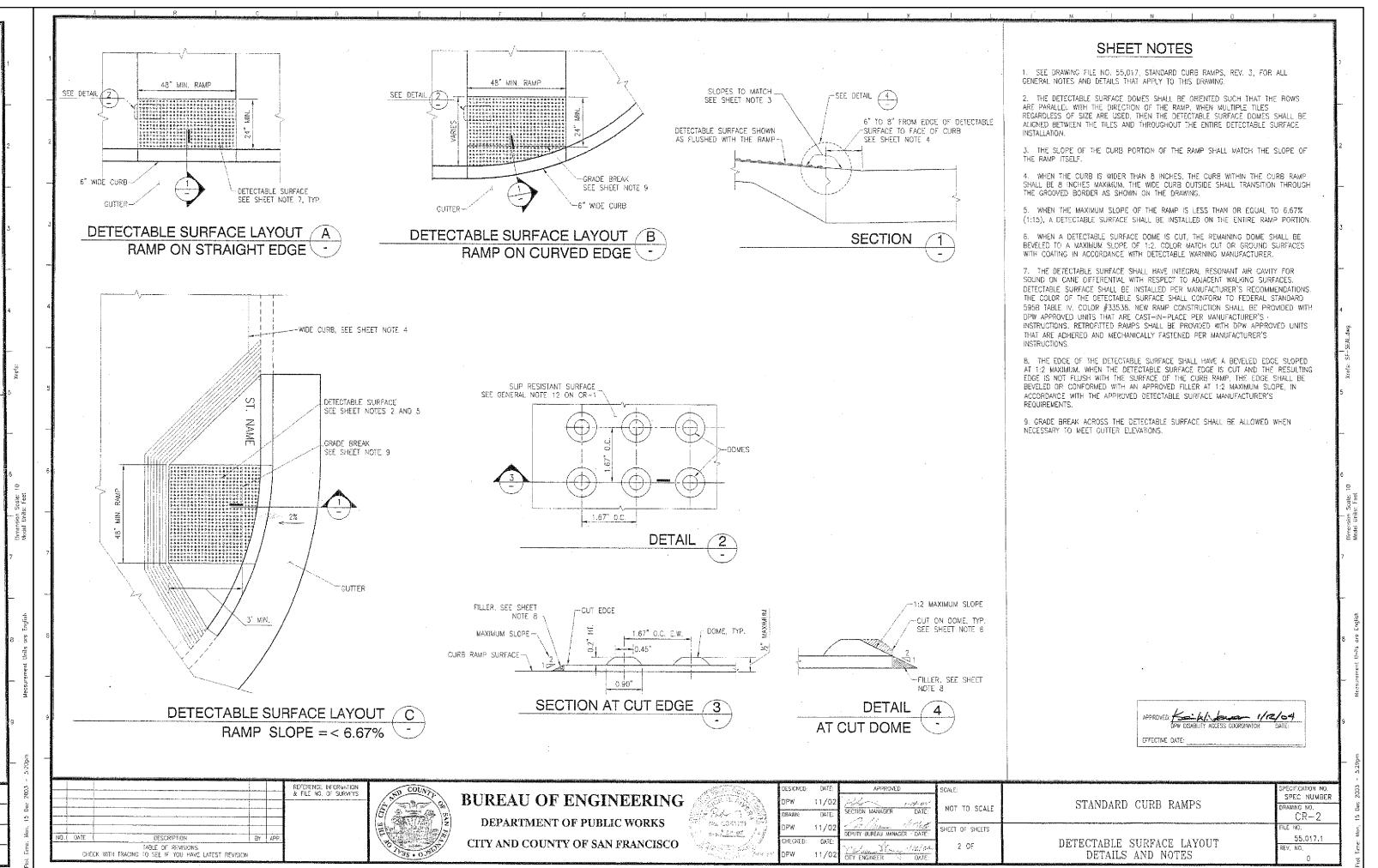
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Details

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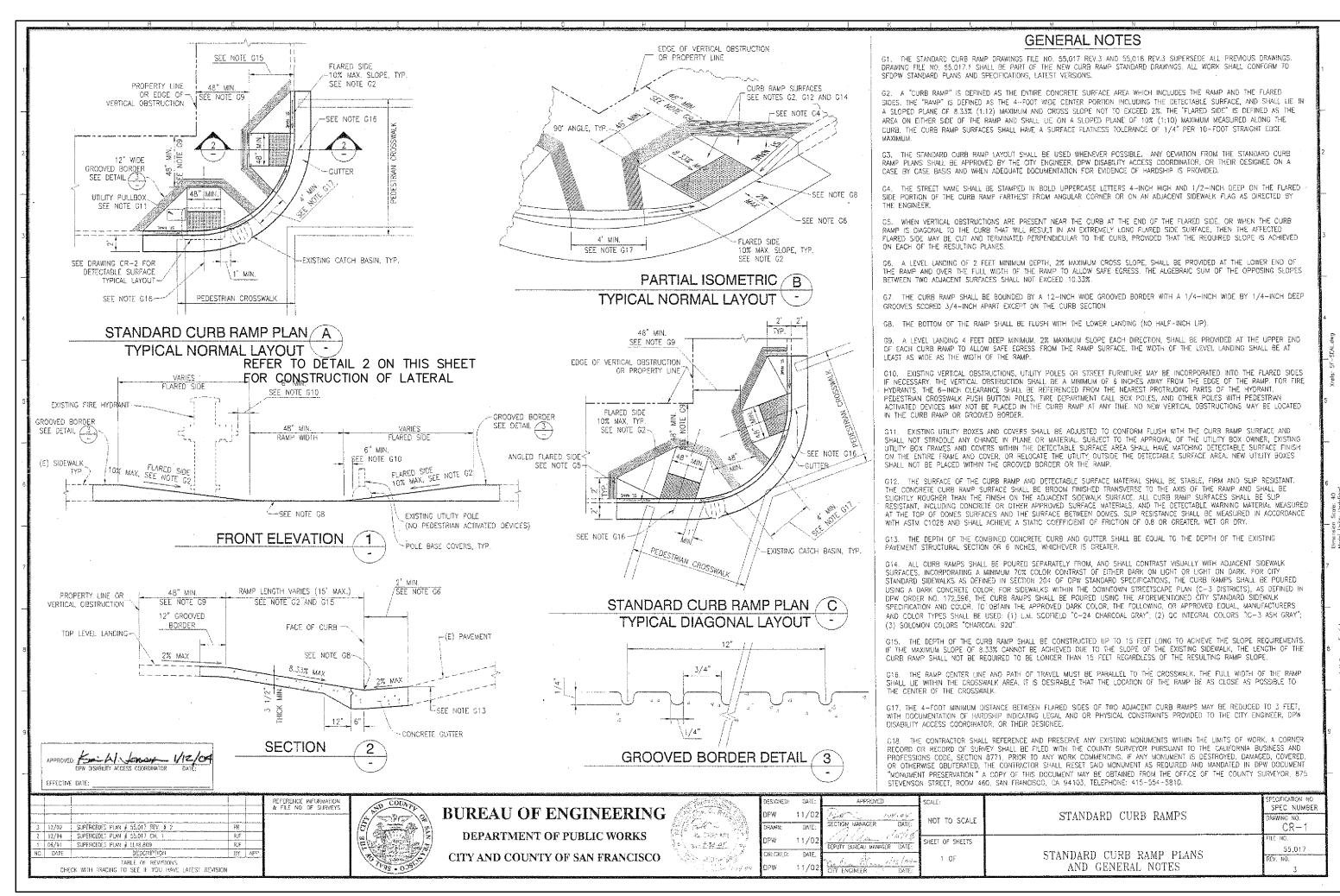
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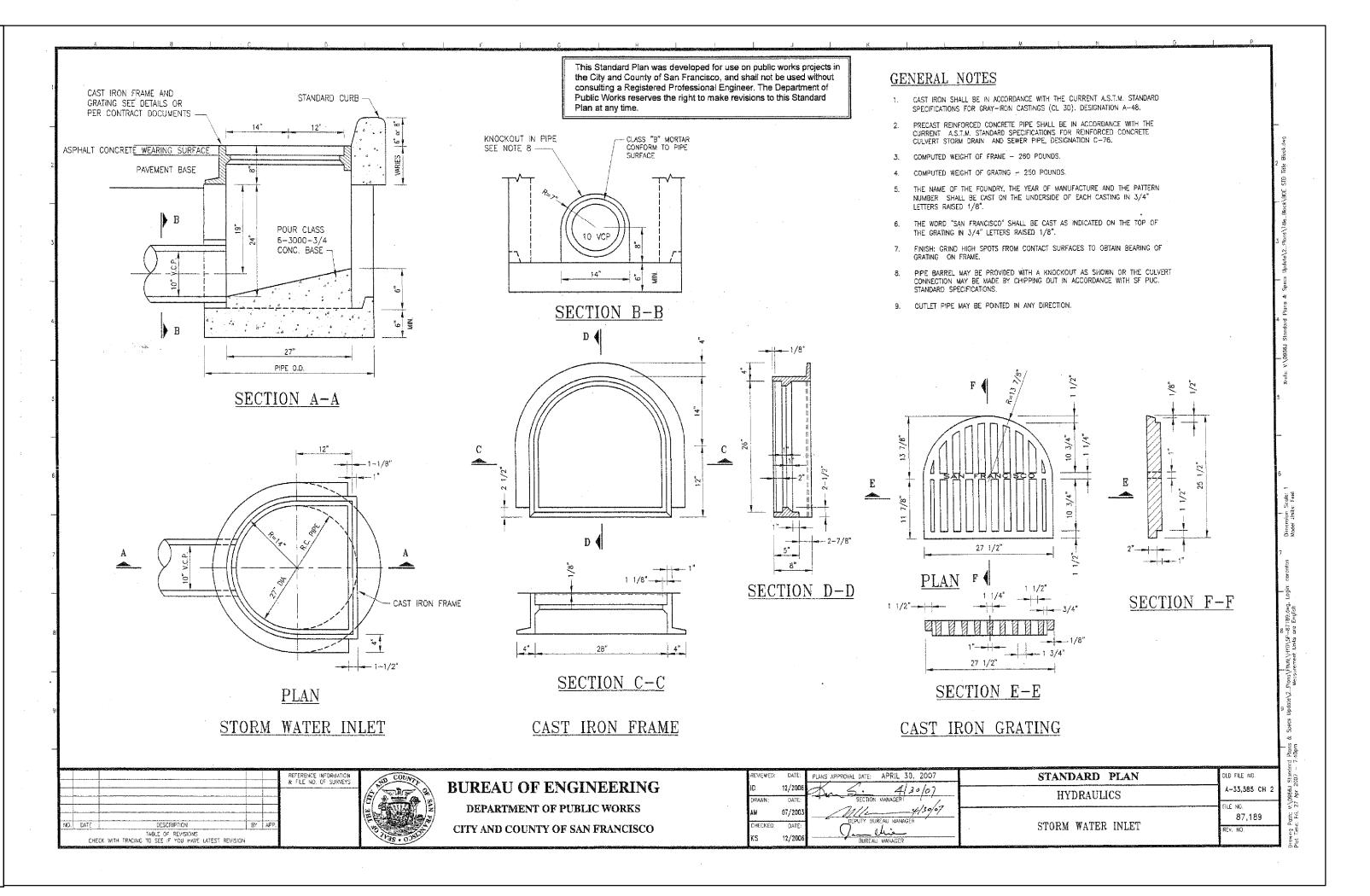




CURB RAMP

DETECTABLE SURFACE DETAILS AND NOTES





VARIANCE REQUIRED AT PROPOSED CURB RAMPS. SURFACE OF RAMPS INCLUDING FLARES IS A SLIP RESISTANT PAVER, SEE LANDSCAPE PLANS. GROOVES AT TOP OF RAMP ARE CUSTOM CUT INTO PAVERS AS DETAILED ON LANDSCAPE PLANS. INSTALL TRUNCATED DOMES OVER PAVER FINISH AS REQUIRED BY DETAIL CR-2.

STANDARD CURB RAMP 3 \ PLANS AND GENERAL NOTES NTS

STORM WATER INLET

Transbay Tower 101 First Street San Francisco, CA

BOSTON PROPERTIES / HINES

PELLI CLARKE PELLI ARCHITECTS Design Architect

KENDALL/HEATON ASSOCIATES, INC.

Architect of Record

Structural Engineer

MAGNUSSON KLEMENCIC ASSOCIATES

MEPFP Engineer

PWP LANDSCAPE ARCHITECTURE Landscape Architect

> **BKF ENGINEERS** Civil Engineer

PERSOHN/HAHN ASSOCIATES, INC. Elevator Consultant

AON FIRE PROTECTION ENGINEERING Building Security

> **HWA PARKING** Parking Consultant

Geotechnical Consultant

HLB LIGHTING DESIGN, INC. Lighting Consultant

CERAMI AND ASSOCIATES, INC. Acoustical Consultant

MORRISON HERSHFIELD Curtain Wall Consultant

ENVIRONMENTAL BUILDING STRATEGIES LEED Consultant

HMA CONSULTING Building Management and Controls Engineer

> C.S. CAULKINS CO., INC. Window Washing Consultant

ENGINEERING SPECIALTIES GROUP

Aerial Tram Consultant

DEBRA NICHOLS DESIGN Graphic Design Consultant

ROYSTON HANAMOTO ALLEY & ABEY Landscape Architect of Record

7 02 MAY 14 GMP 6 10 FEB 14 BID ADDENDUM #2

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3 29 OCT 13 STREET IMPROVEMENT PERMIT PIPE BARRIER PERMIT SIDEWALK WIDENING PROCESS 2 06 MAY 13 SITE PERMIT REVISION NO. 2

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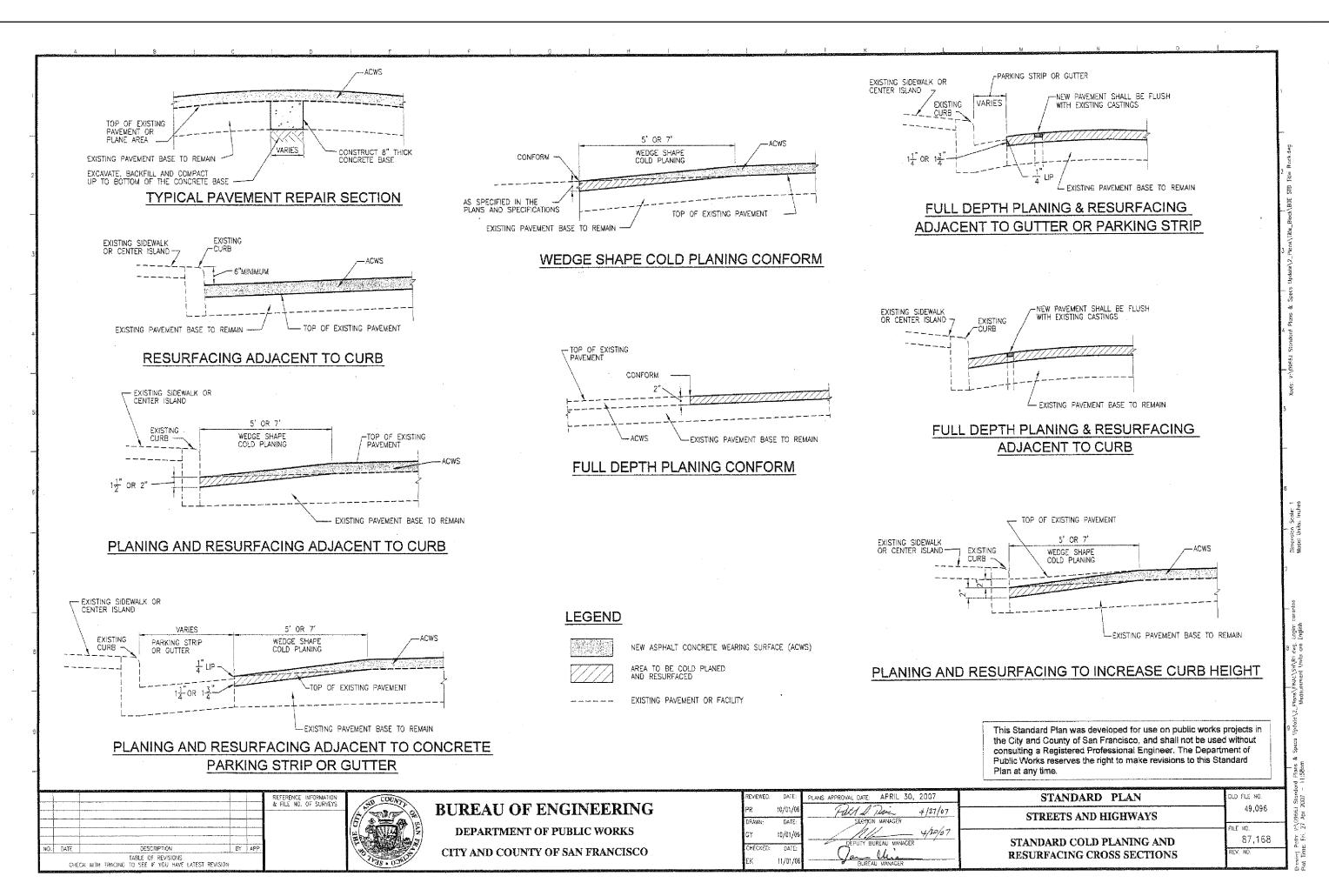
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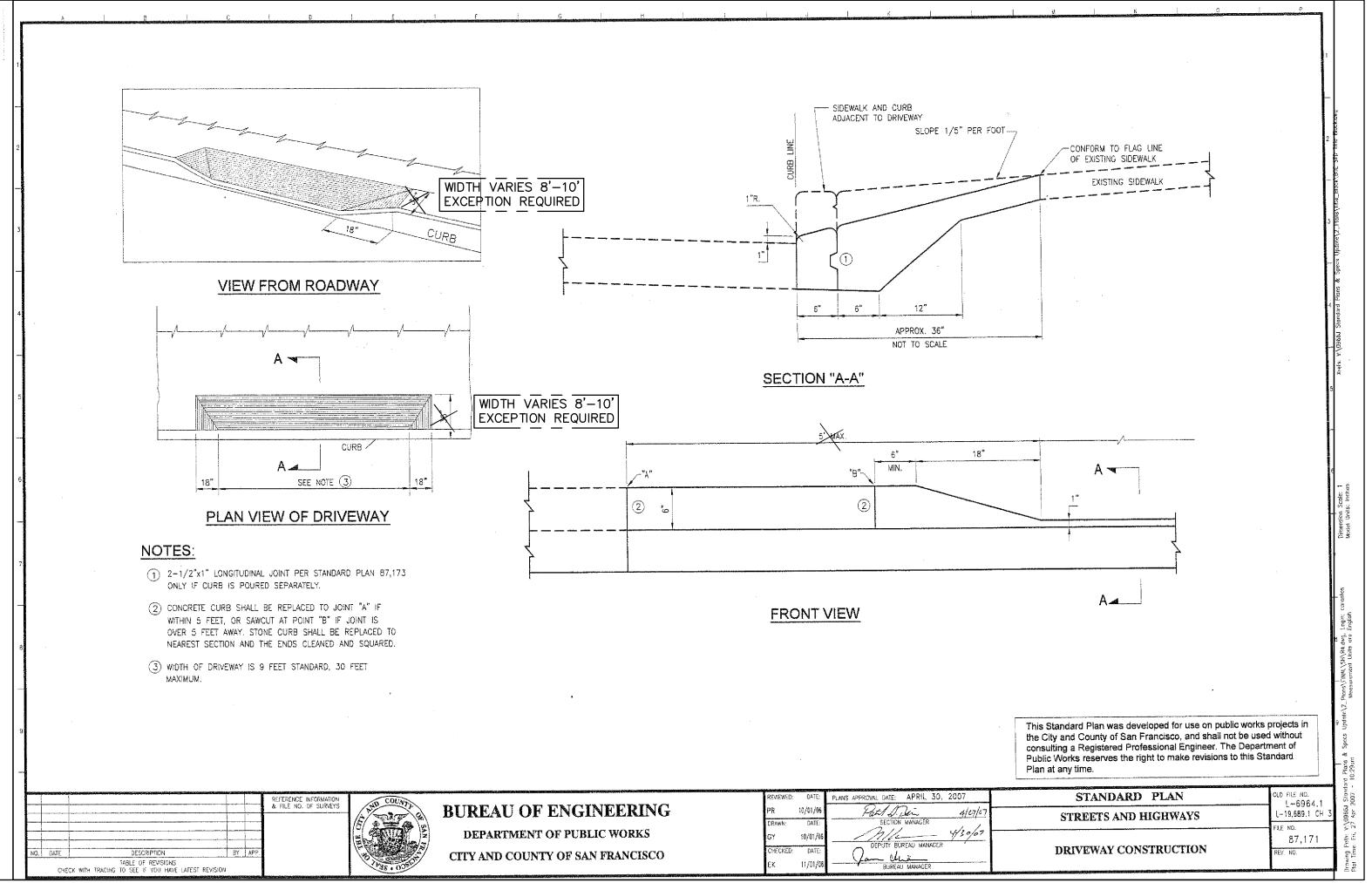
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PROJECT NO. 08044

C8.10

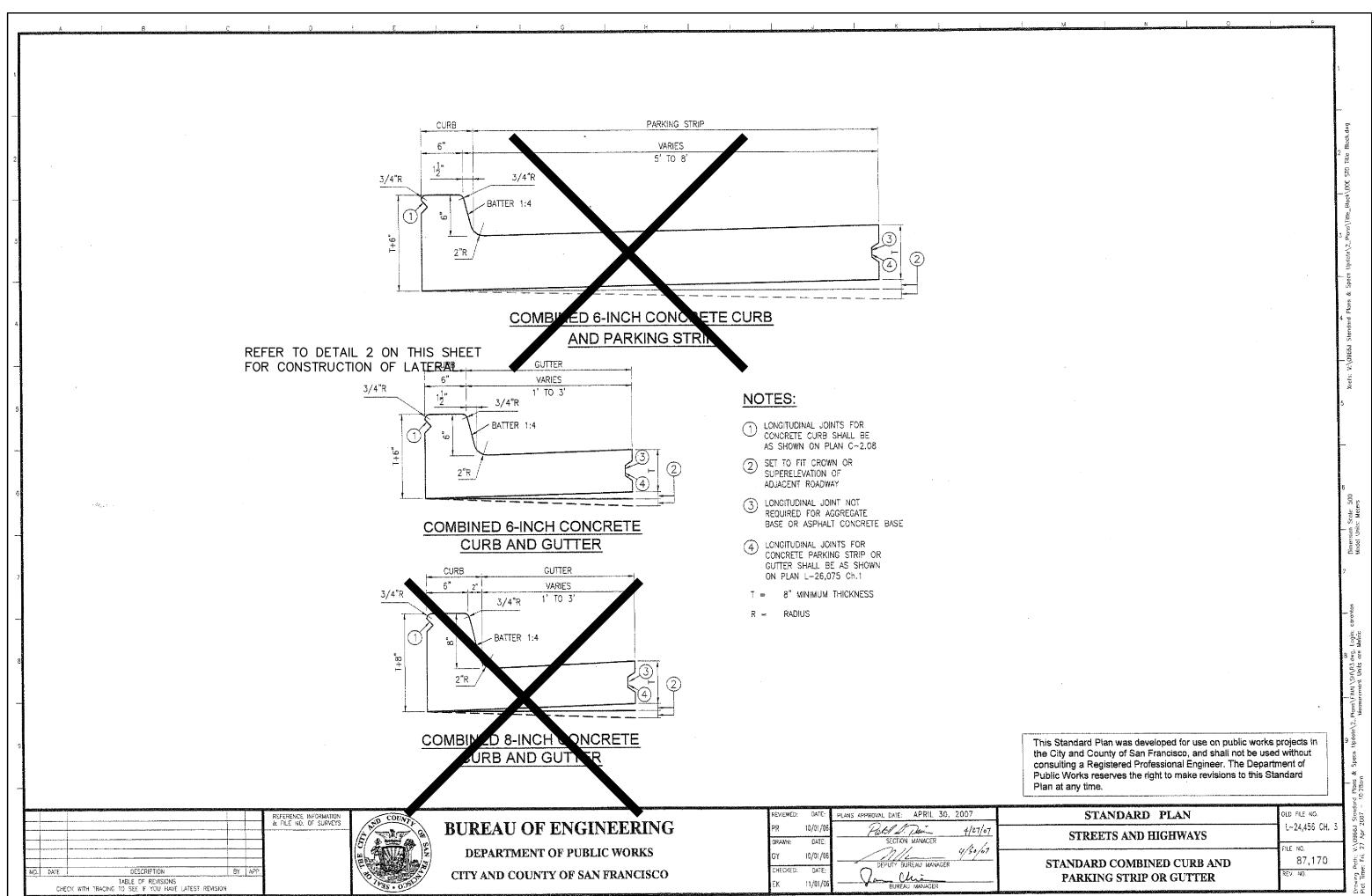


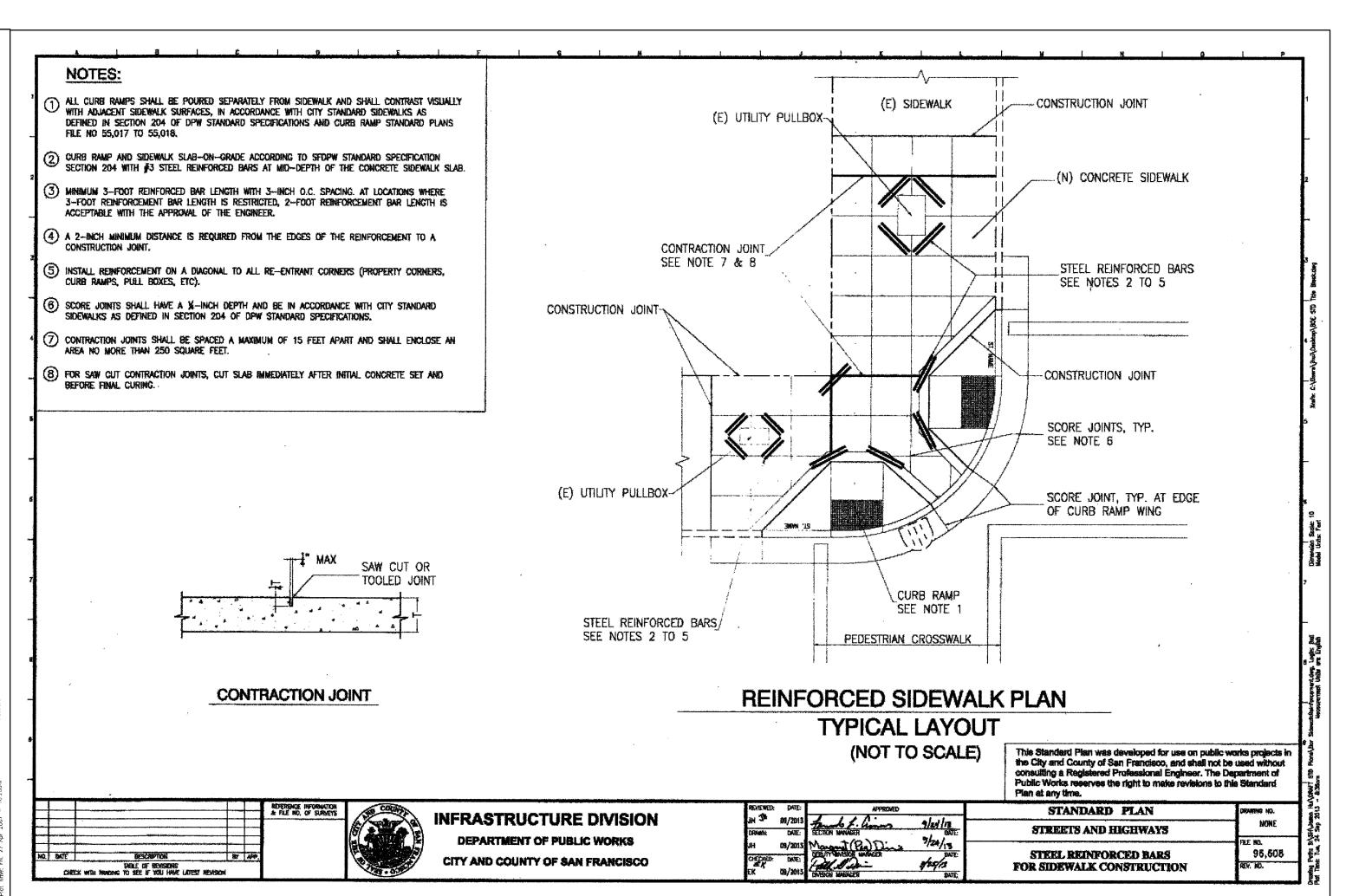


1 STANDARD COLD PLANING AND RESURFACING CROSS SECTIONS

NTS



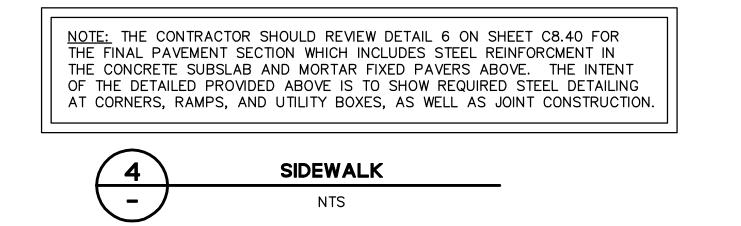




NOTE: CONTRACTOR TO REFER TO CITY STANDARD DETAIL 87,173 FOR JOINTS IN CURBS.

CURB AND GUTTER

NTS



Transbay Tower
101 First Street
San Francisco, CA

BOSTON PROPERTIES / HINES

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02 MAY 14 GMP

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CAD FILENAME

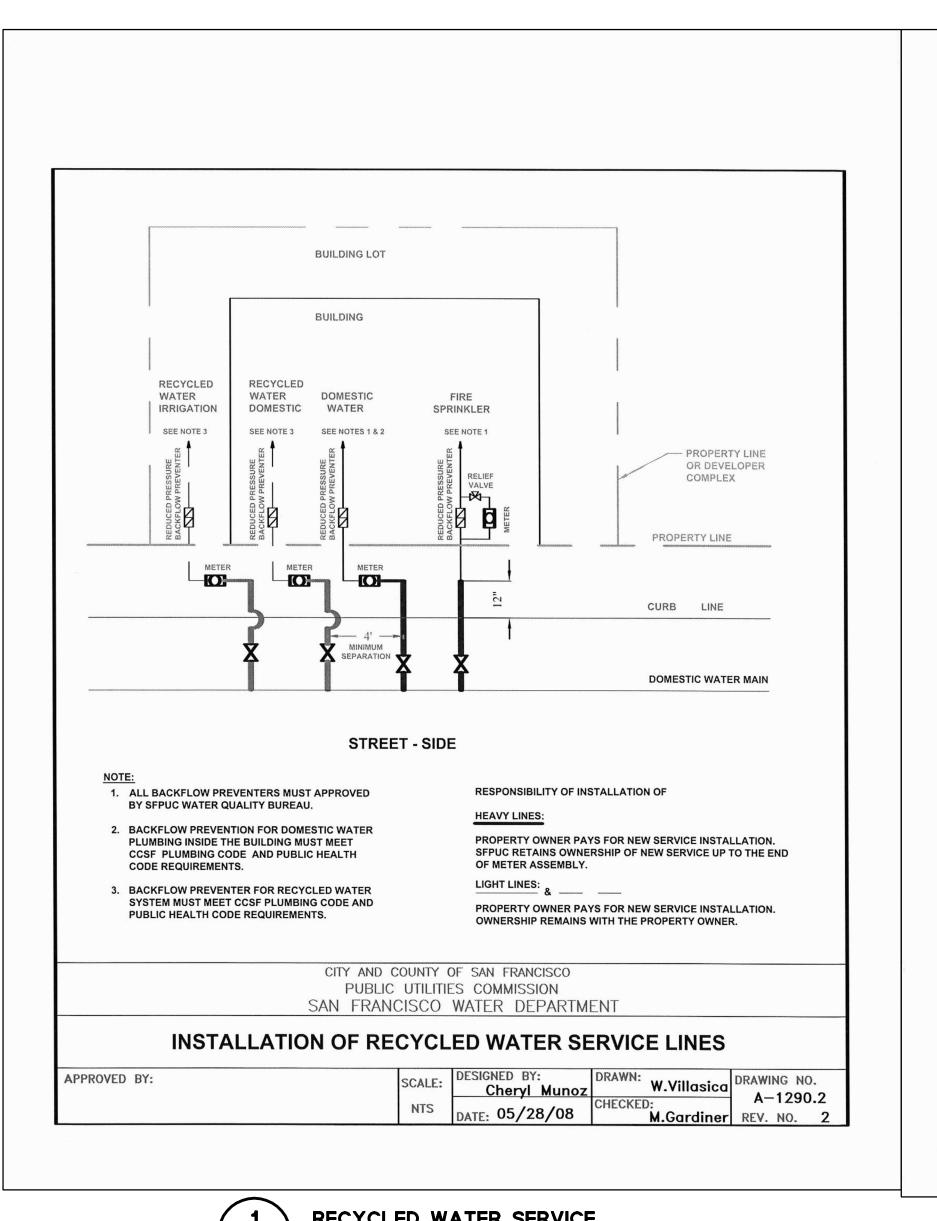
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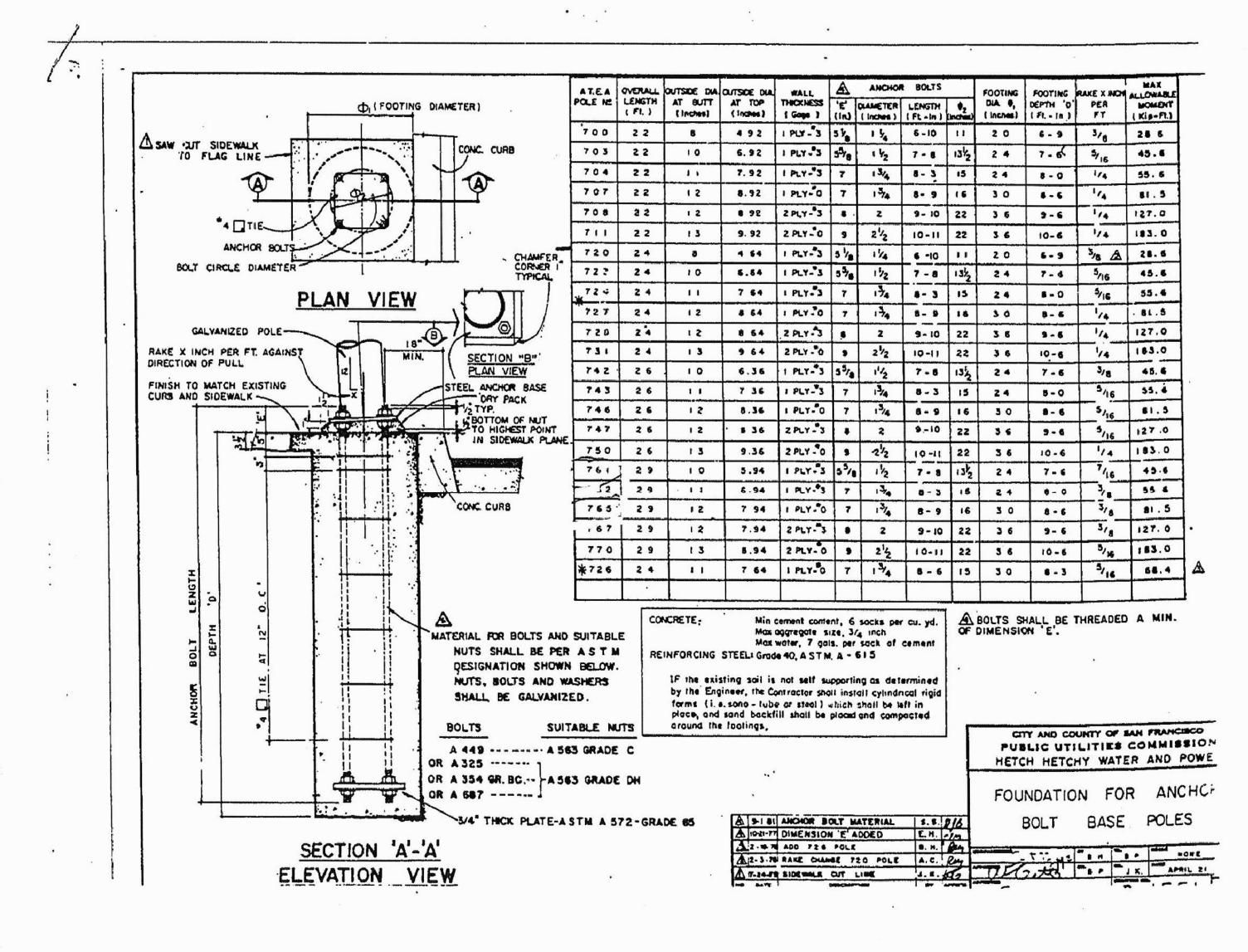
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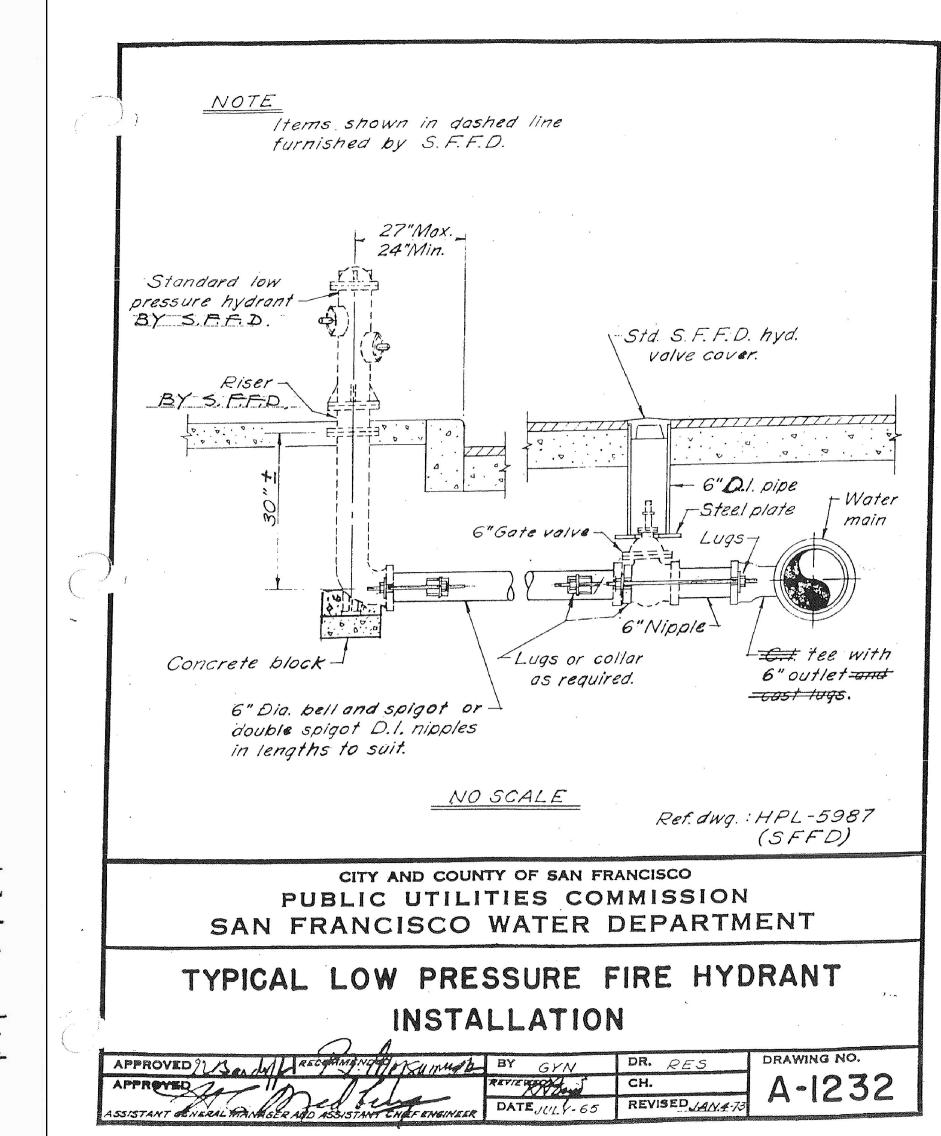
RAWING NUMBER

KHA PROJECT NO. 08044

C8.20







1 RECYCLED WATER SERVICE

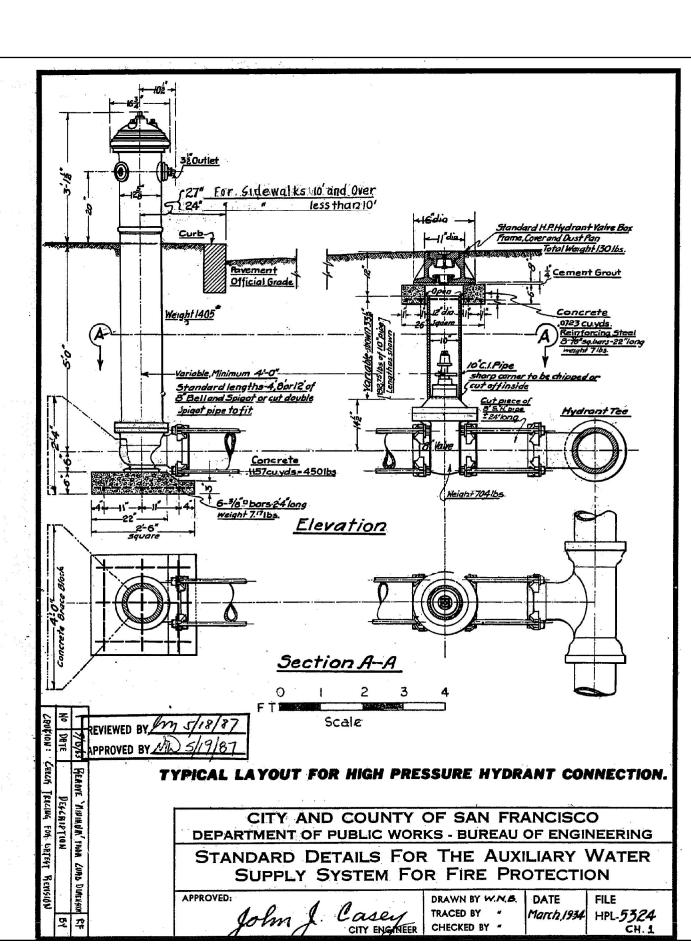
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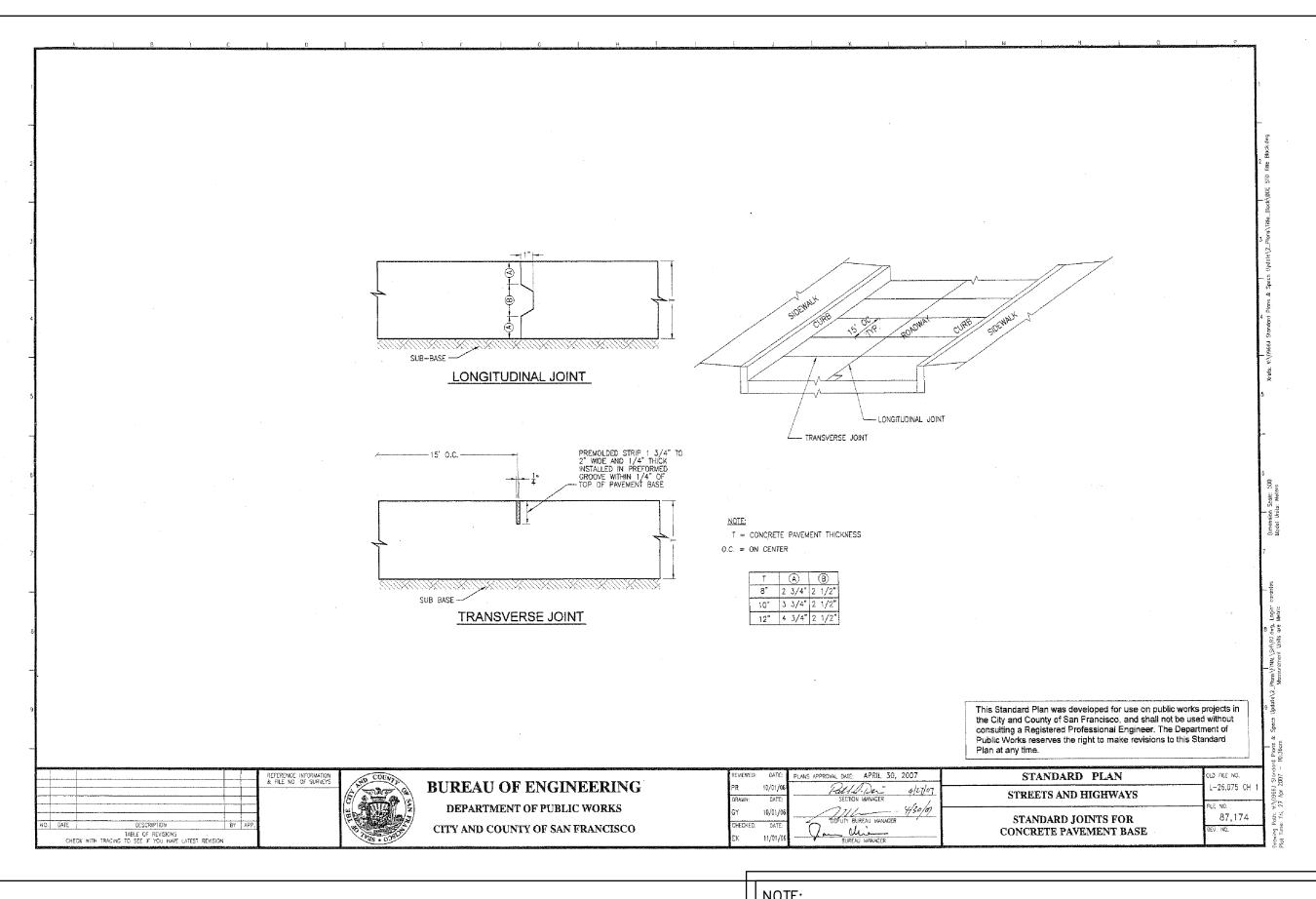
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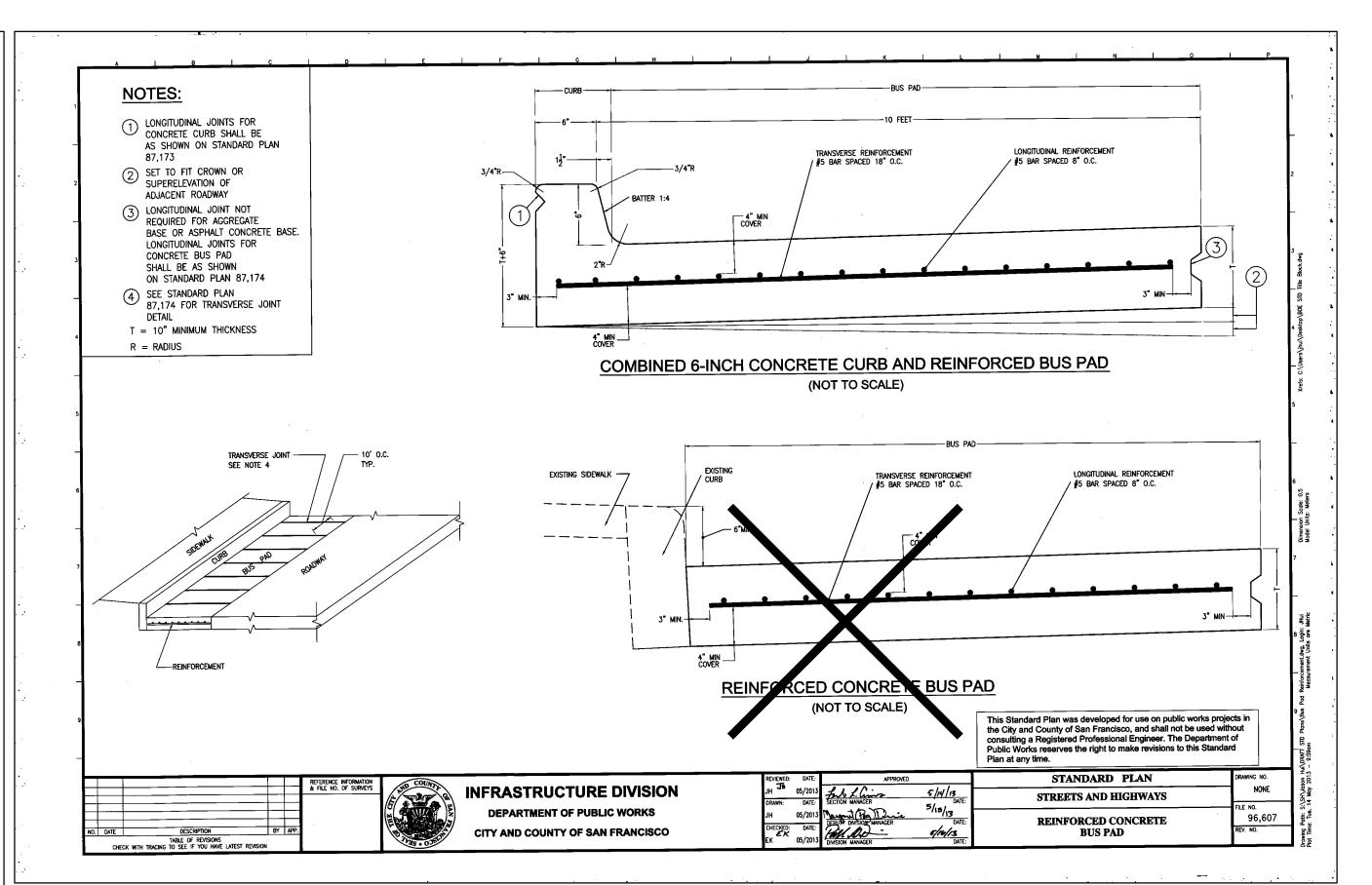
NTS

NOTE: FINAL DIMENSIONS SHALL BE DETERMINED BY SFMTA 3 FIRE HYDRANT (LOW PRESSURE)

NTS







HIGH PRESSURE HYDRANT INSTALLATION

NTS

5 CONCRETE BASE JOINTS

NTS

IN LOCATIONS WHERE PROPOSED FINISHED GRADE IS LOWER THAN
EXISTING GRADES, THE ENTIRE STREET SECTION SHALL BE REPLACED INCLUDING
THE CONCRETE SUBBASE AND ASPHALT WEARING COURSE. EXCAVATE AND
OFF-HAUL SOIL AS REQUIRED TO ACHIEVE FULL PAVEMENT SECTION. CITY ENGINEER
TO APPROVE FINAL EXTENTS OF FULL PAVEMENT RESTORATION PRIOR TO COMMENCING

6 CONCRETE BUS PAD

NTS

Transbay Tower

101 First Street
San Francisco, CA

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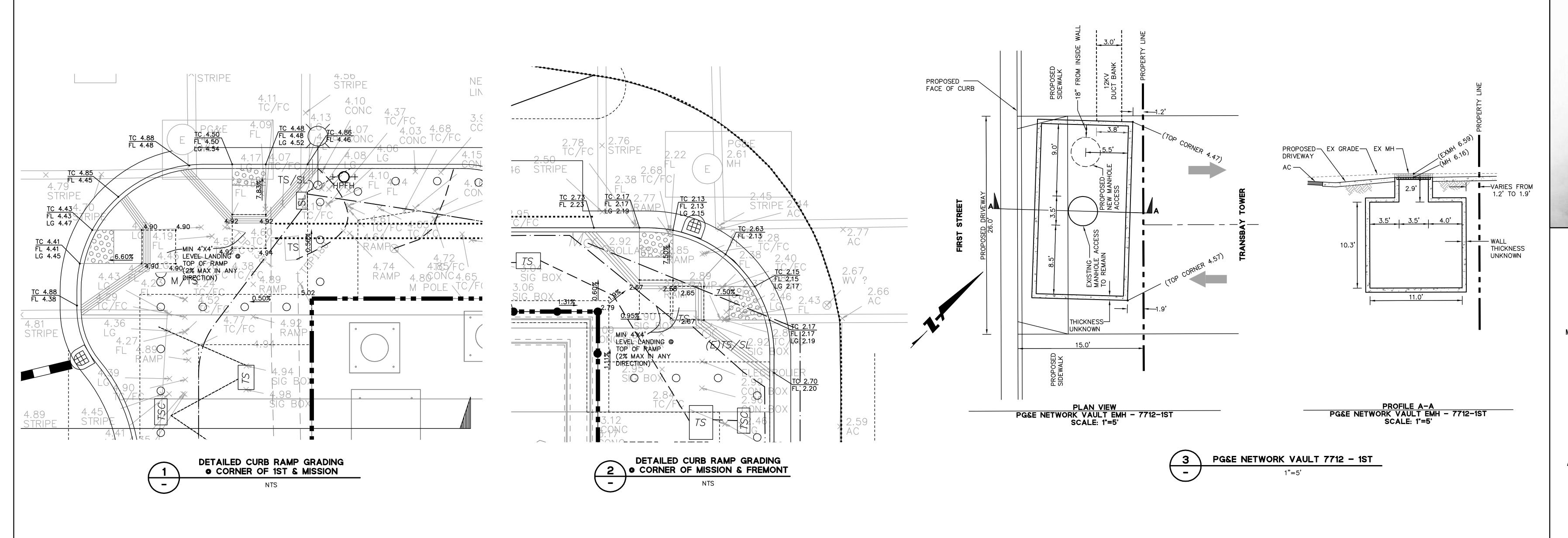
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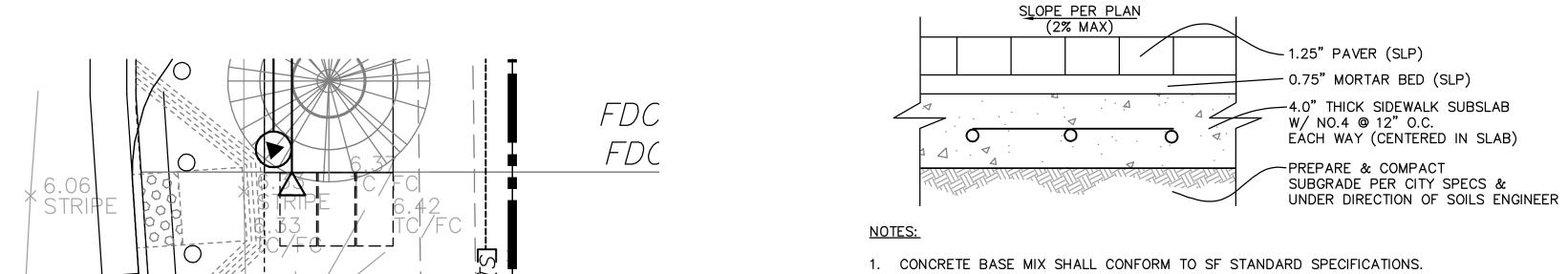
08044

Civil

Details

C8.30





(N) ACCESS MH-

LOWER (E) NECK & LID

DETAILED DRIVEWAY GRADING

• 1ST STREET

NTS

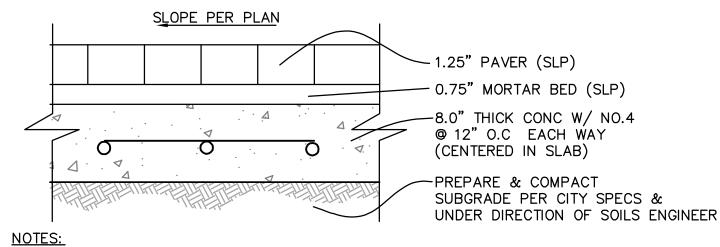
MORTAR BED (SLP) 0/6
8" CONG BASE W/ C8.40

--\1.00% /-----HCR-----/

NO. 4 @ 12" O.C EW-

- INCLUDING MIX DESIGN, SUBGRADE PREP, & JOINTING.
- 2. REFER TO LANDSCAPE DRAWINGS FOR PAVER TILE TYPE & FINISH. SFDPW-BSM TO APPROVE SLIP RESISTANCE OF MATERIAL PRODUCT PRIOR TO INSTALLATION.
- 3. REFER TO ARCHITECTURAL/STRUCTURAL PLANS FOR DETAILING OF JOINTS AT PAVER SURFACE AND AT PROPERTY LINE.
- 4. THE SIDEWALK REINFORCED CONCRETE SUBASE SHALL CONFORM TO ALL APPLICABLE REQUIREMENTS SET FORTH IN SF STANDARD SPECIFICATION SECTION 204 FOR CONCRETE SIDEWALKS.
- 5. INSTALL TRANSVERSE JOINTS AT ALL CURB RETURNS, LOT LINES, AND INTERMEDIAT SPACING NOT TO EXCEED 30 FEET. REFER TO SF SPECIFICATION SECTION 204.07





- 1. CONCRETE BASE MIX SHALL CONFORM TO SF STANDARD SPECIFICATIONS. INCLUDING MIX DESIGN, SUBGRADE PREP, & JOINTING.
- 2. REFER TO LANDSCAPE DRAWINGS FOR PAVER TILE TYPE & FINISH. SFDPW-BSM TO APPROVE SLIP RESISTANCE OF MATERIAL PRODUCT PRIOR TO INSTALLATION.
- 3. REFER TO ARCHITECTURAL/STRUCTURAL PLANS FOR DETAILING OF JOINTS AT PAVER SURFACE AND AT PROPERTY LINE.
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- 5. INSTALL TRANSVERSE JOINTS AT ALL CURB RETURNS, LOT LINES, AND INTERMEDIAT SPACING NOT TO EXCEED 30 FEET. REFER TO SF SPECIFICATION SECTION 204.07





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DRAWING TITLE

Civil **Details**

KHA PROJECT NO. 08044

RAWING NUMBER C8.40

SSMH

STRIPE

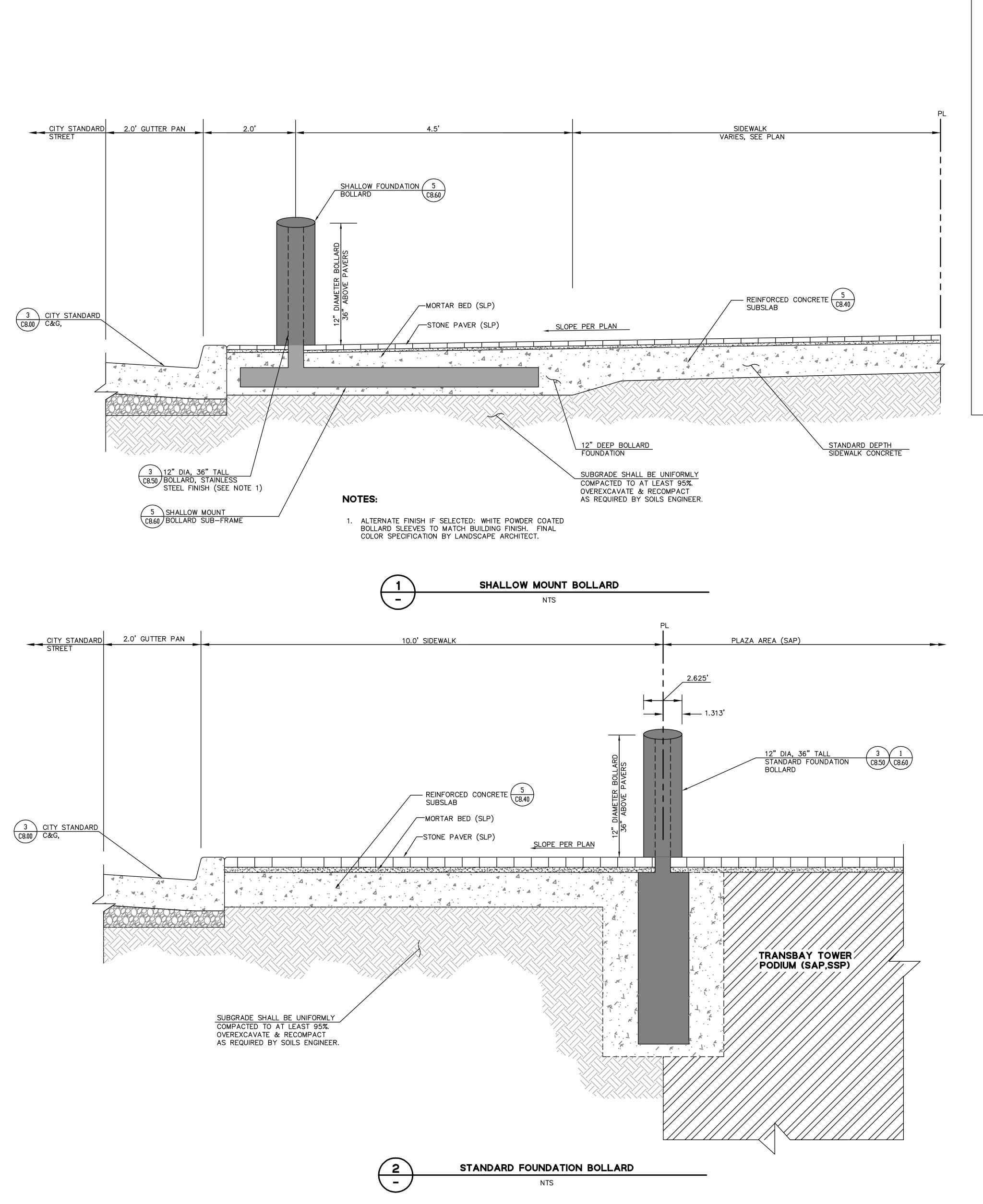
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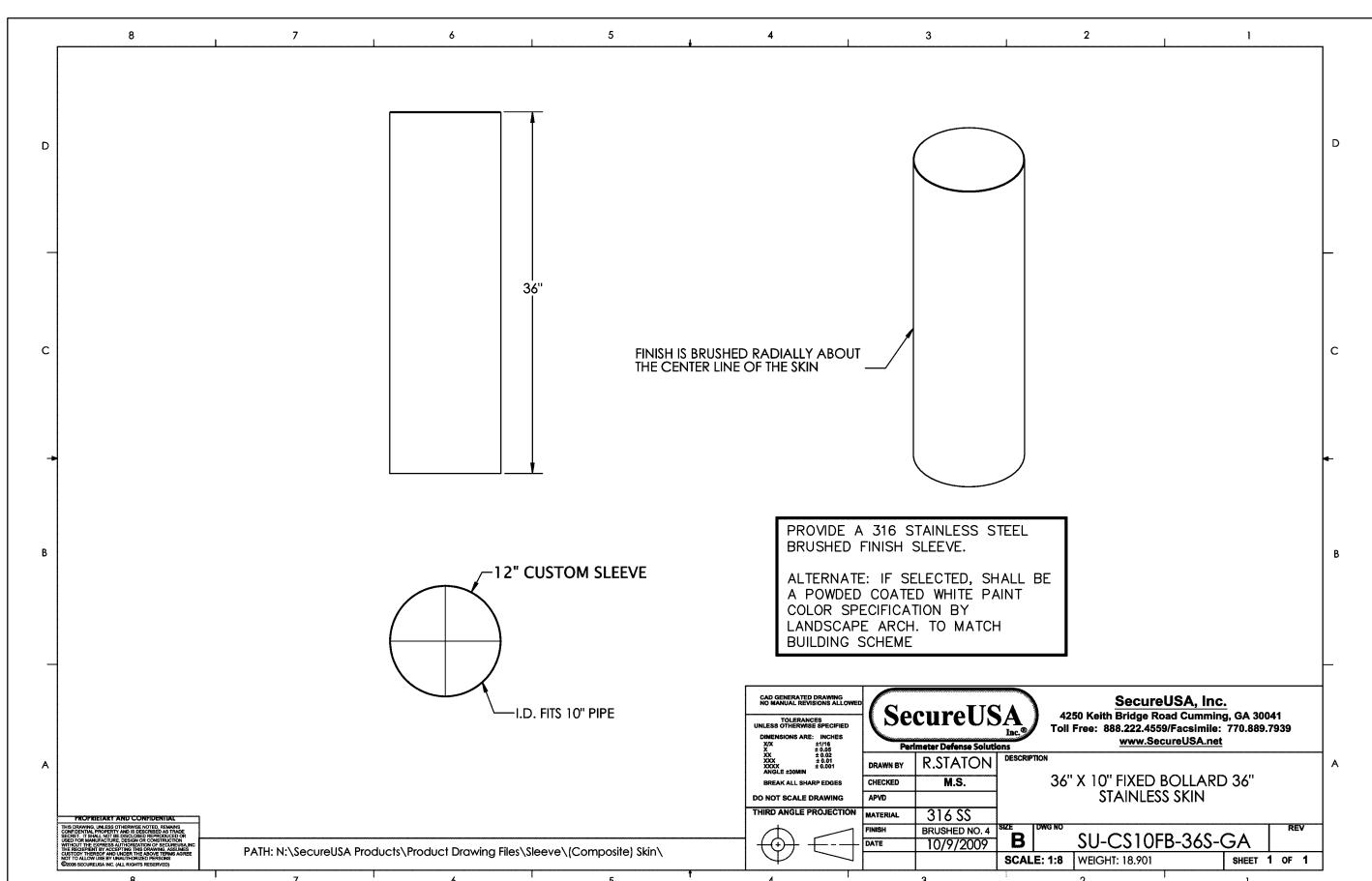
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TEL MH

GUARD RAIL (E

TC 5.37 FL 5.29





BOLLARD SLEEVE

BOLLARD INSTALLATION NOTES

SYSTEM DESCRIPTION

- 1. ALL BOLLARDS SHALL BE K12 CRASH RATED CAPABLE OR RESISTING A 15,000 POUND VEHICLE TRAVELING AT 50 MPH, DOS
- K12 AND ASTM M50 ENERGY LEVEL. 2. BOLLARDS SHALL BE MANUFACTURED BY SECURE USA OR
- APPROVED EQUIVALENT. 3. INSTALL BOLLARDS PER MANUFACTURERS INSTRUCTIONS.
- 4. MAINTAIN 48" CLEAR PATH OF TRAVEL AT ALL PEDESTRIAN ZONES. 5. REFER TO HORIZONTAL CONTROL PLAN FOR LAYOUT. 6. THE BOLLARD SYSTEMS SHALL BE CAST IN PLACE, POURED
- MONOLITHICALLY WITH THE SIDEWALK BASE (UNDER PAVER 7. TOP OF BOLLARD FOUNDATION SHALL BE SLOPED AS REQUIRED TO
- ACHIEVE FINAL GRADES NOTED ON THE GRADING PLAN. 8. COORDINATE WITH ADJOINING TRANSIT CENTER FOR FINAL BOLLARD PLACEMENT AND SPACING.

PROJECT CONDITIONS

- 1. CONTRACTOR TO TAKE FIELD MEASUREMENTS PRIOR TO FABRICATION OF THE WORK AND PREPARATION OF SHOP DRAWINGS, TO ENSURE PROPER FITTING OF THE WORK. SHOW RECORDED MEASUREMENTS ON FINAL SHOP DRAWINGS. NOTIFY THE ENGINEER, IN WRITING,, OF ANY DIMENSIONS FOUND WHICH ARE NOT WITHIN THE SPECIFIED DIMENSIONS AND TOLERANCES, PRIOR TO PROCEEDING WITH THE FABRICATION. COORDINATE FABRICATION SCHEDULE WITH CONSTRUCTION PROGRESS TO AVOID
- DELAYING THE WORK. CONTRACTOR SHALL EXAMINE AREAS AND CONDITIONS UNDER WHICH THE WORK IS TO BE INSTALLED, AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
- BEGINNING OF THE WORK SHALL INDICATE ACCEPTANCE OF THE AREAS AND CONDITIONS AS SATISFACTORY BY THE INSTALLER.

<u>PREPARATION</u>

- INDICATE THE LOCATION OF THE BOLLARDS PER PLAN. 2. VERIFY CLEARANCE TO ALL EXISTING UTILITIES TO REMAIN AND ALL PROPOSED UTILITIES. COORDINATE WITH PROJECT DRAWINGS FOR ANY REQUIRED SLEEVES OR CONDUITS.
- 3. PROVIDE TRAFFIC CONTROL OR BARRIERS AROUND THE SITE FOR SAFETY PURPOSES.

<u>INSTALLATION</u>

3. FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS, PROVIDED THE SIDES OF THE EXCAVATION ARE

5. DESIGN NET SOIL BEARING PRESSURE SHALL BE 3000 PSF AT A

- STABLE. WHERE CAVING OCCURS, PROVIDE SHORING. 4. THE EXCAVATION SHALL BE KEPT DRY AT ALL TIMES. GROUND WATER, IF ENCOUNTERED, SHALL BE PUMPED FROM THE EXCAVATIONS AND DISCHARGED TO APPROVED LOCATION.
- DEPTH OF 12-INCHES BELOW ADJACENT GRADE. FOOTING EXCAVATION TO BE VERIFIED BY PROJECT SOILS ENGINEER. 6. THE SUBGRADE SHALL BE UNIFORMLY COMPACTED TO AT LEAST
- 95 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. 7. HOT WEATHER CONCRETE PLACEMENT SHALL COMPLY WITH AC1
- 305R. COLD WEATHER CONCRETE SHALL COMPLY WITH ACI 306R. 8. CONCRETE CURING SHALL COMPLY WITH ACI 308.
- 9. CONCRETE SHALL BE CONSOLIDATED AND COMPLY WITH ACI 309R. 10. CONTROL JOINTS SHALL BE SCORED OR SAW CUT JOINTS (1-INCH DEEP FILLED WITH SEALANT) AT A MAXIMUM SPACING OF 12 FEET
- 11. PROVIDE SPACER BARS, CHAIRS, SPREADERS, BLOCKS, ETC AS REQUIRED TO POSITIVELY HOLD THE STEEL IN PLACE. DOWELS

12. ALL REINFORCING STEEL SHALL CONFORM TO ACI 318/318M.

SHALL BE FIRMLY WIRED IN PLACE BEFORE CONCRETE IS POURED.

<u>SUBMITTALS</u>

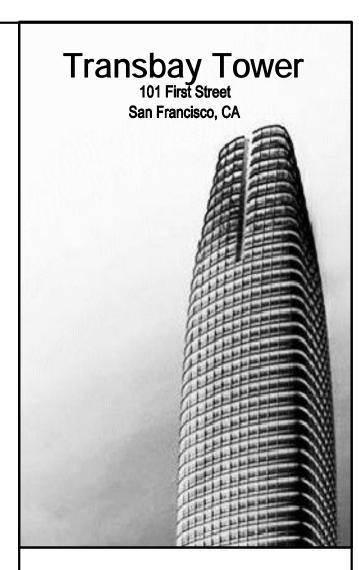
- 1. CONTRACTOR SHALL SUBMIT PRODUCT DATA SHOWING MATERIAL PROPOSED. SUFFICIENT INFORMATION SHALL BE SUBMITTED TO
- DETERMINE COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS. 2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR EACH PRODUCT AND ACCESSORY REQUIRED. INFORMATION NOT FULLY DETAILED IN MANUFACTURER'S STANDARD PRODUCT DATA INCLUDING, BUT NOT LIMITED TO, ASSEMBLY AND FOUNDATION SHALL BE INCLUDED IN
- THE SHOP DRAWING SUBMITTAL. 3. CONTRACTOR SHALL SUBMIT SAMPLES FOR INITIAL COLOR SELECTION. SAMPLES FOR EACH SPECIFIED FINISH SHALL BE SUBMITTED. SAMPLES SHALL BE SUBMITTED IN THE FORM OF MANUFACTURER'S COLOR CHARTS SHOWING FULL RANGE OF COLORS AND FINISHES AVAILABLE. CONTRACTOR SHALL INCLUDE
- SAMPLES SHOWING THE FULL RANGE OF VARIATIONS EXPECTED, WHERE FINISHES INVOLVE NORMAL COLOR VARIATIONS. 4. QUALITY CONTROL SUBMITTALS SHALL INCLUDE STRUCTURAL ANALYSIS DATA SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER WHO WAS RESPONSIBLE FOR THEIR PREPARATION FOR INSTALLED PRODUCTS INDICATED TO COMPLY WITH CERTAIN DESIGN
- 5. CONTRACTOR SHALL SUBMIT MANUFACTURER'S WARRANTY DOCUMENTS AND LETTER OF CERTIFICATION FROM THE MANUFACTURER, AND SHALL BE SIGNED BY THE CONTRACTOR AND THE INSTALLER, STATING THAT THE WORK WAS PROVIDED IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND THAT THE INSTALLATION WAS PROPER FOR THE CONDITIONS OF APPLICATION AND USE, AND RESULTED IN THE WORK BEING INSTALLED TO COMPLY WITH THE PERFORMANCE CHARACTERISTICS SPECIFIED.

QUALITY ASSURANCE

- 1. MANUFACTURER SHALL BE A FIRM ENGAGED IN THE MANUFACTURE OF SIDEWALK BOLLARDS OF TYPES AND SIZES REQUIRED, AND WHOSE PRODUCTS HAVE BEEN IN SATISFACTORY USE IN SIMILAR
- SERVICE FOR A MINIMUM OF FIVE (5) YEARS. 2. INSTALLER SHALL BE A FIRM THAT SHALL HAVE A MINIMUM OF FIVE (5) YEARS OF SUCCESSFUL INSTALLATION EXPERIENCE WITH PROJECTS UTILIZING SIDEWALK BOLLARDS SIMILAR IN TYPE AND SCOPE TO THAT REQUIRED FOR THIS PROJECT, AND SHALL BE APPROVED BY THE MANUFACTURER. THE INSTALLER SHALL HAVE HAD AT LEAST COMPLETE 20 DEPARTMENT OF STATE (DOS) EQUIVALENT PROJECT INSTALLATIONS IN THE PAST THREE (3) YEARS, IF WORK IS TO BE DONE BY A MANUFACTURER-AUTHORIZED INSTALLER: THAT AUTHORIZED
- INSTALLER SHALL BE ONE THAT HAS BEEN TRAINED BY THE MANUFACTURER. 3. WELDING OPERATORS SHALL CARRY PROOF OF QUALIFICATION ON THEIR PERSONS AND SHALL QUALIFY WELDING PROCESSES AND WELDING OPERATORS IN ACCORDANCE WITH AWS STANDARD

QUALIFICATION PROCEDURES.

- 4. A MANUFACTURER CERTIFIED REPRESENTATIVE SHALL FURNISH SERVICES AT THE JOB SITE AS NECESSARY TO ADVISE ON EVERY PHASE OF THE WORK, AT THE START OF THE INSTALLATION, PERIODICALLY AS WORK PROGRESSES, AND AFTER COMPLETION.
- CONTRACTOR SHALL CONDUCT A PRE-INSTALLATION CONFERENCE. PRIOR TO COMMENCING THE INSTALLATION, PROJECT TEAM SHALL MEET AT THE PROJECT SITE TO REVIEW THE MATERIAL SELECTIONS INSTALLATION PROCEDURES. AND COORDINATE WITH OTHER TRADES. PRE-INSTALLATION CONFERENCE SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, THE CONTRACTOR, THE INSTALLER, ENGINEER, MANUFACTURER'S CERTIFIED REPRESENTATIVE, AND ANY TRADE THAT REQUIRES COORDINATION WITH THE WORK. DATE AND TIME OF THE PREINSTALLATION CONFERENCE SHALL BE ACCEPTABLE TO THE OWNER AND THE ENGINEER.



BOSTON PROPERTIES / HINES

PELLI CLARKE PELLI ARCHITECTS

KENDALL/HEATON ASSOCIATES, INC. Architect of Record

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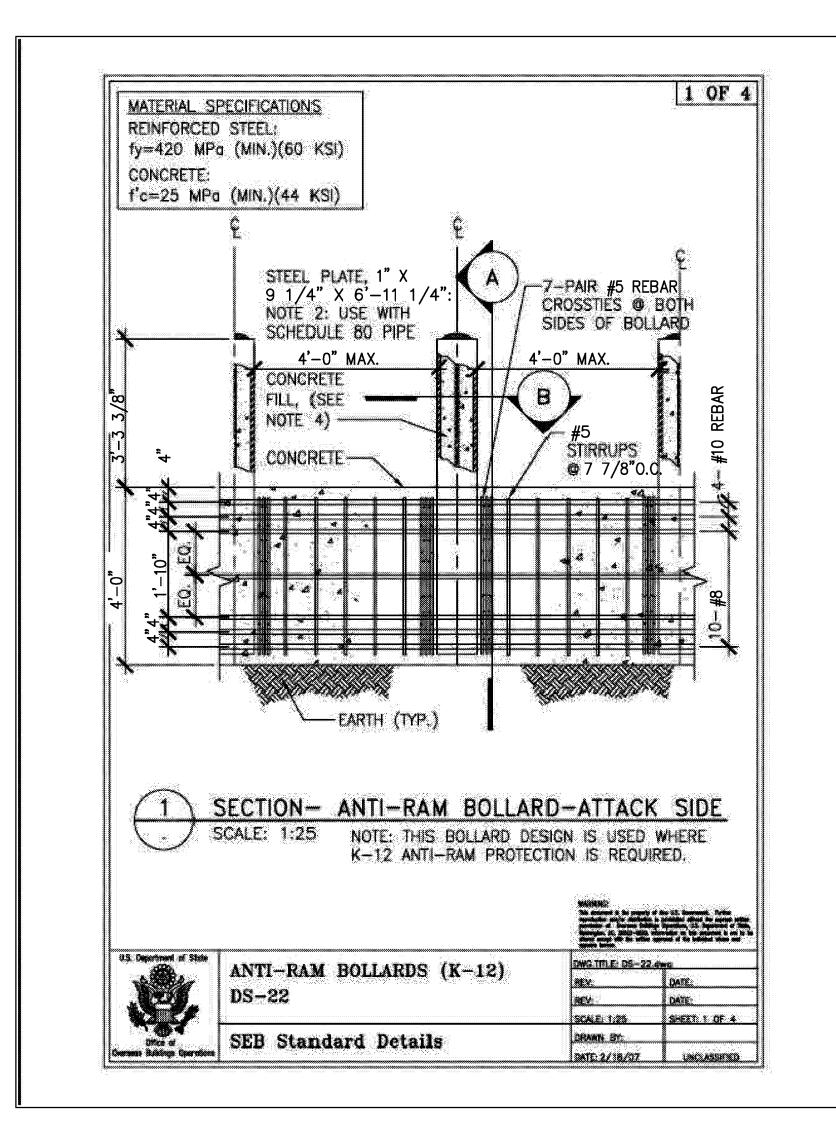
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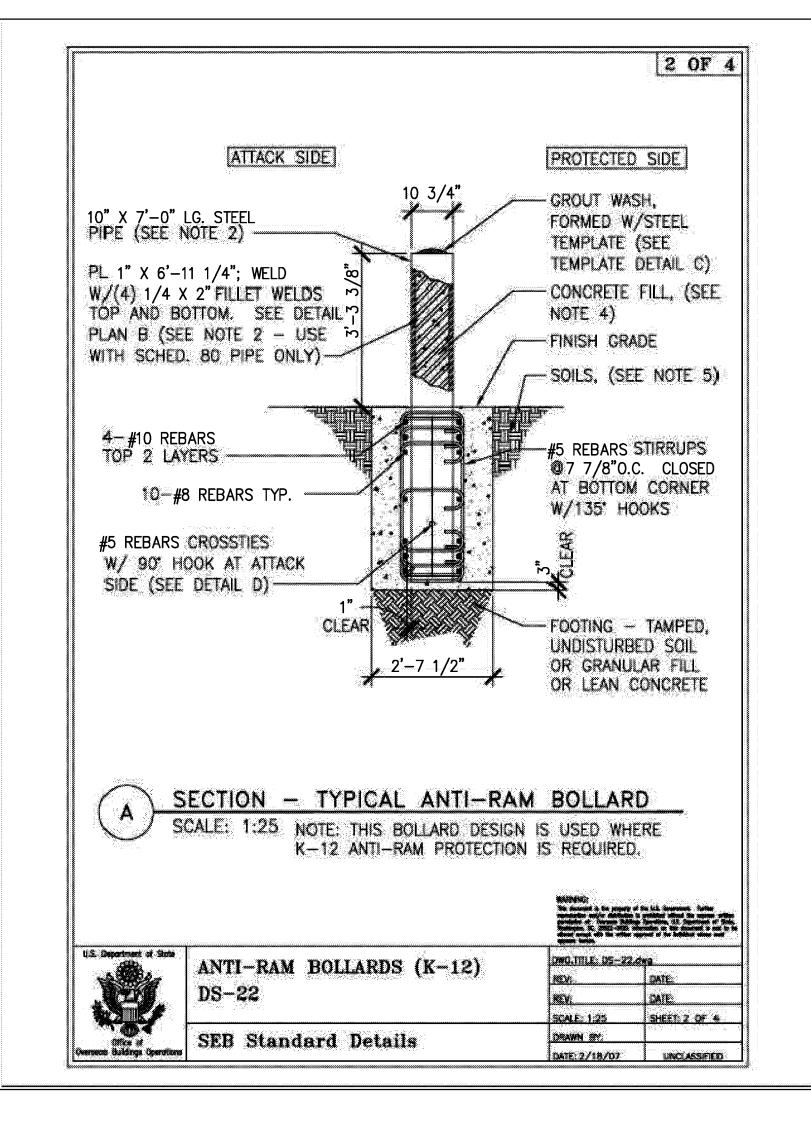
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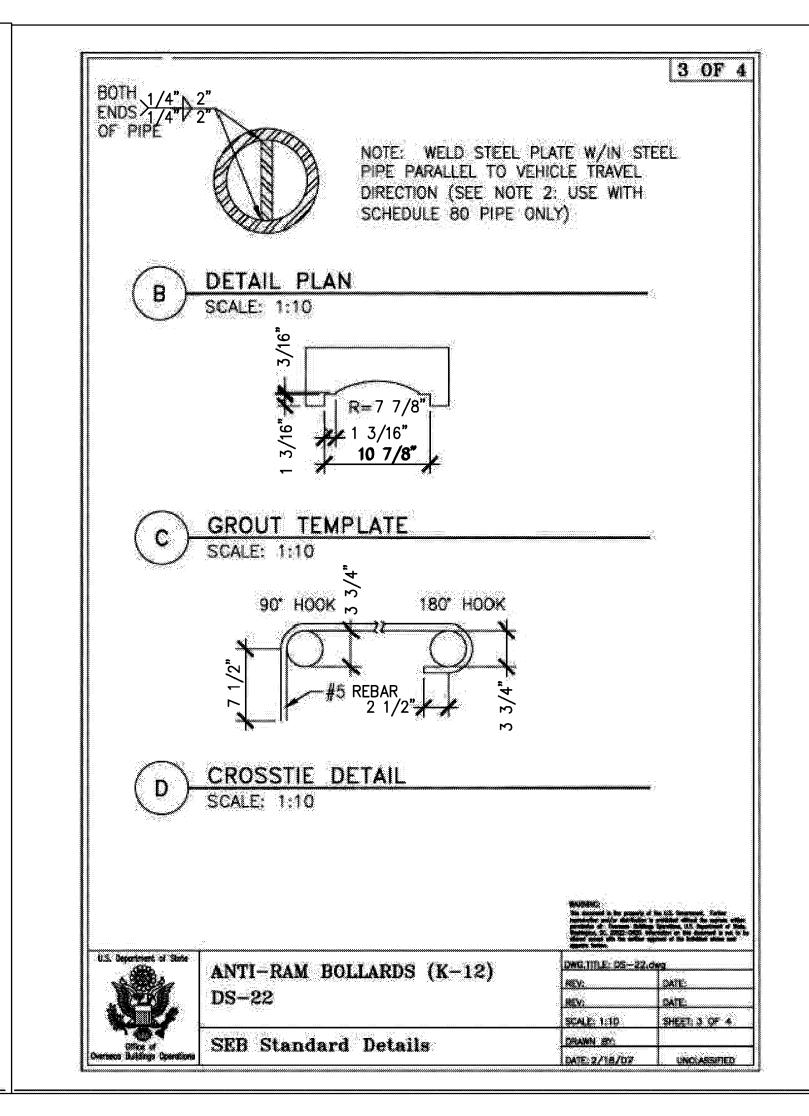
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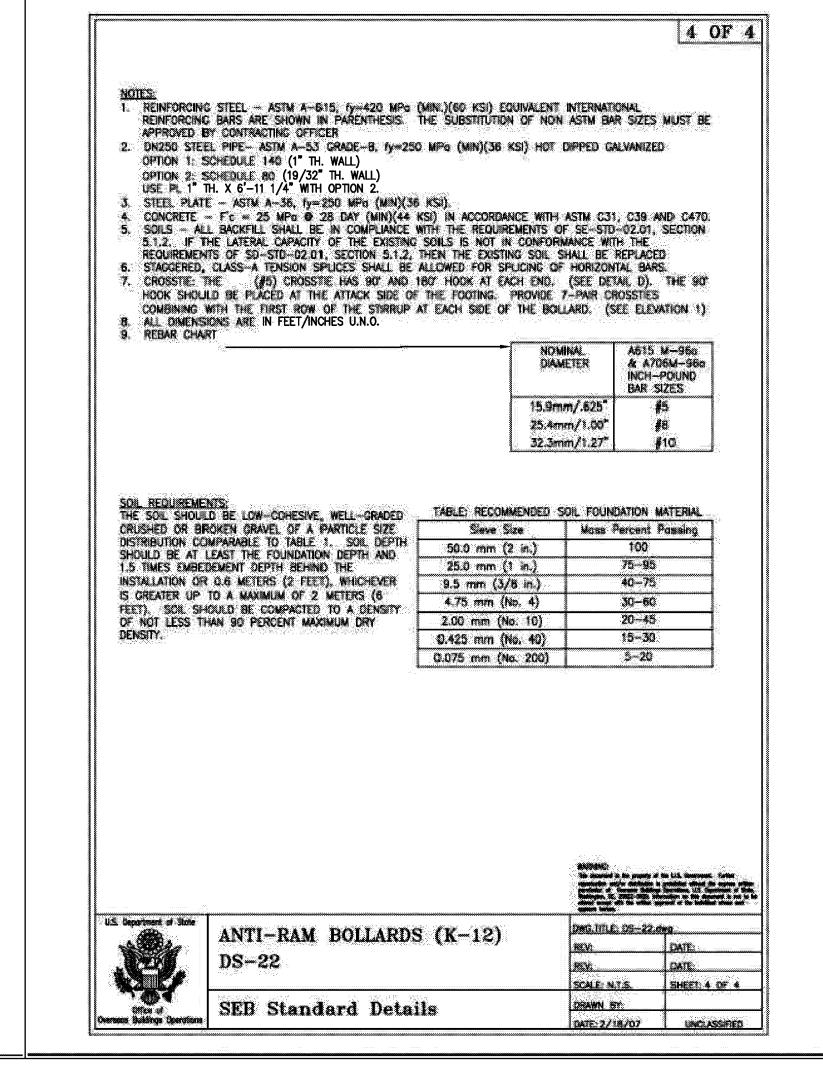
PROJECT NO. 08044

RAWING NUMBER C8.50







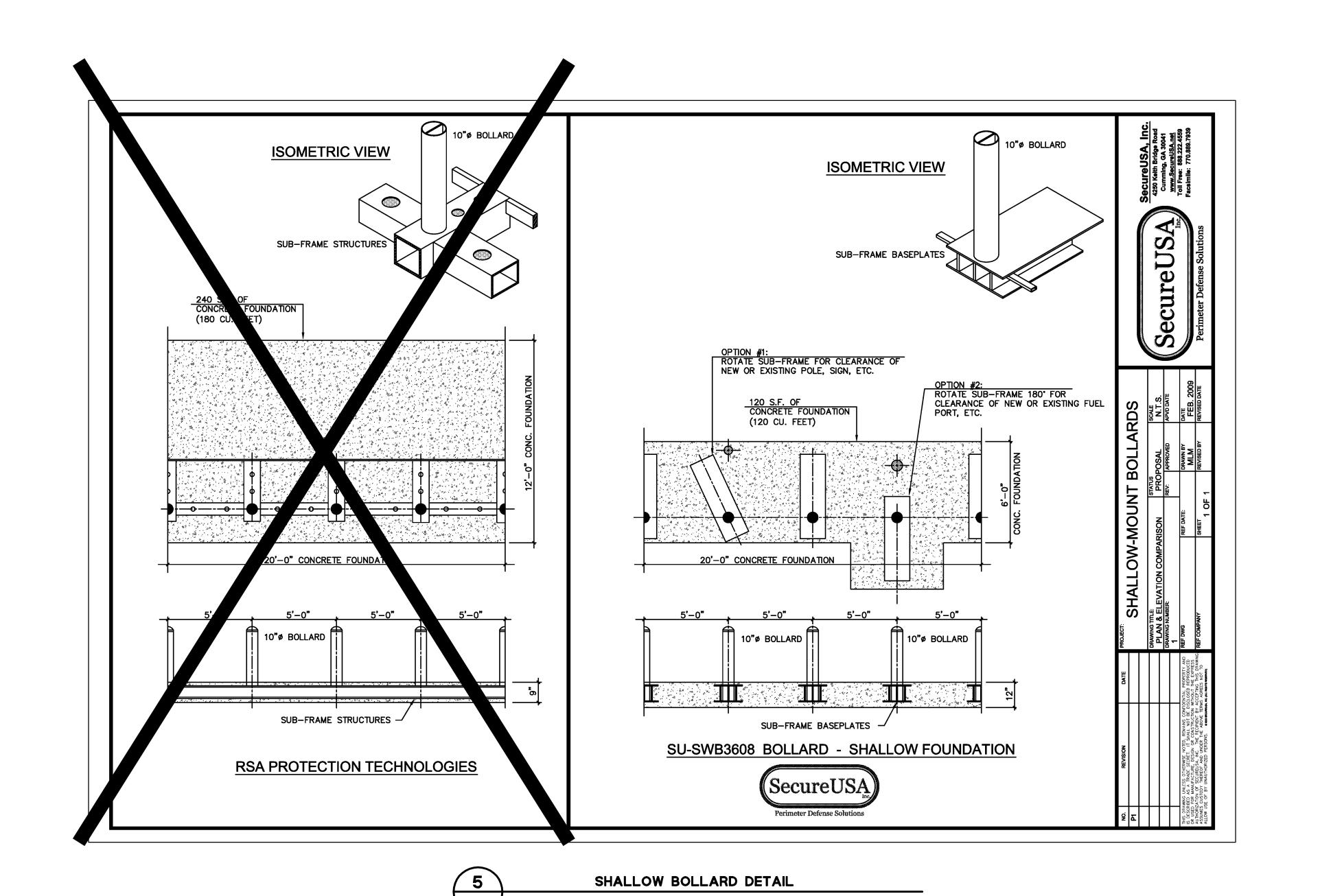


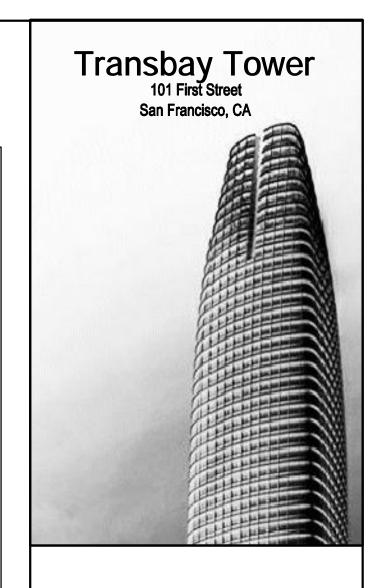












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NO. DATE

CAD FILENAME

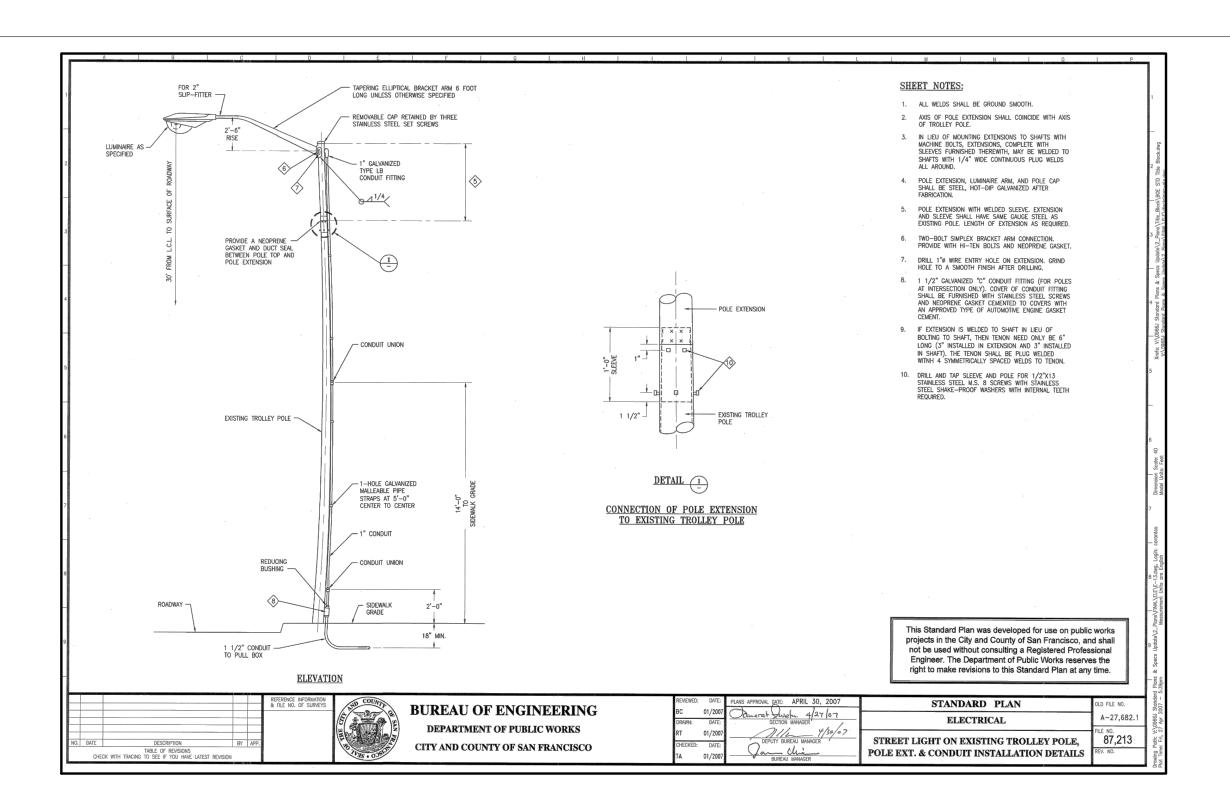
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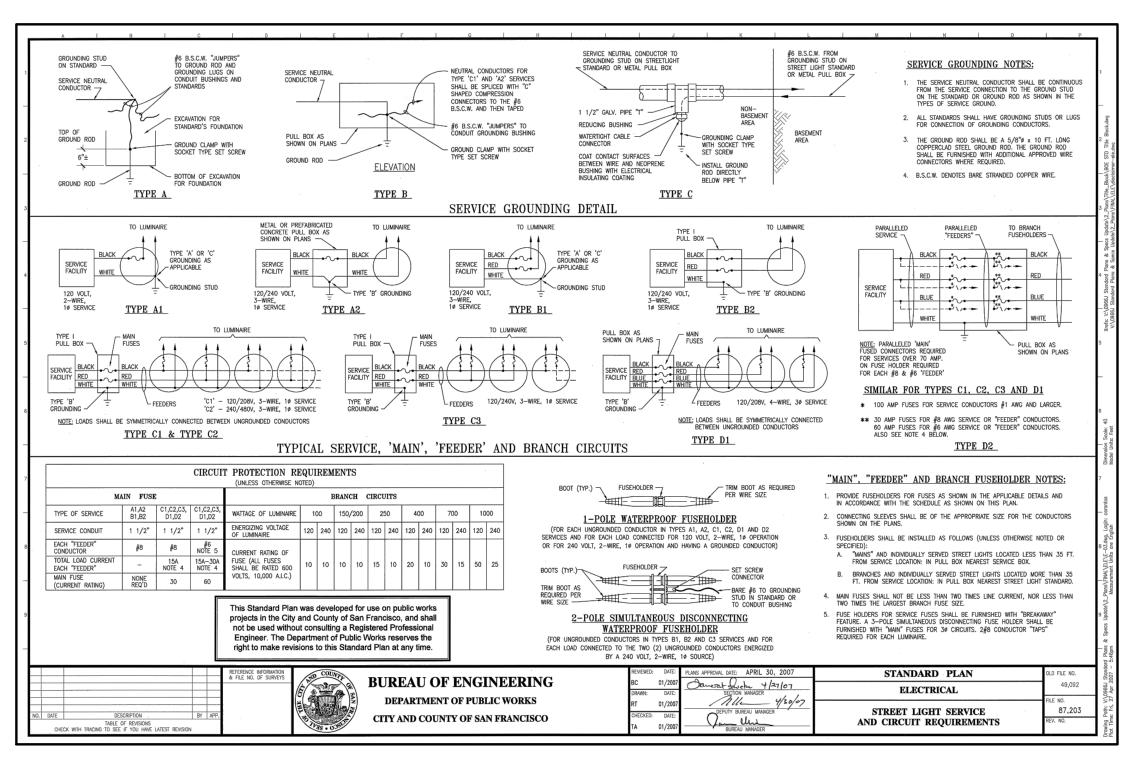
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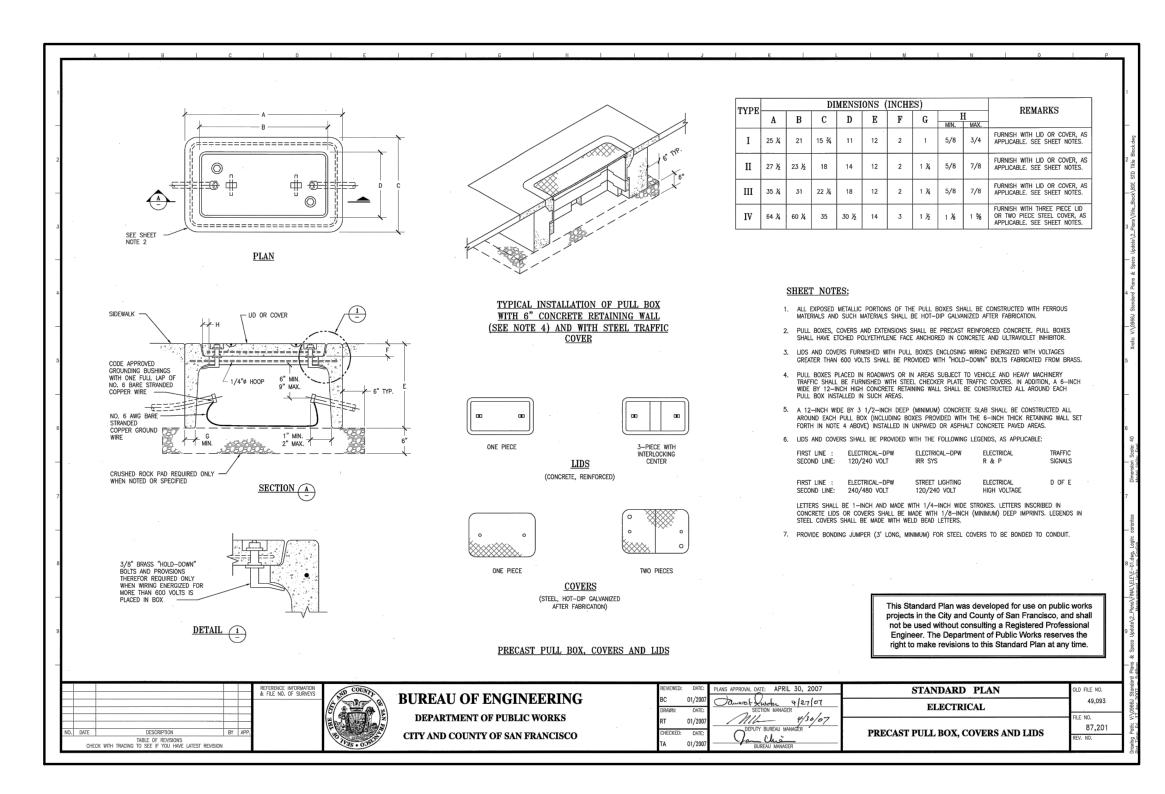
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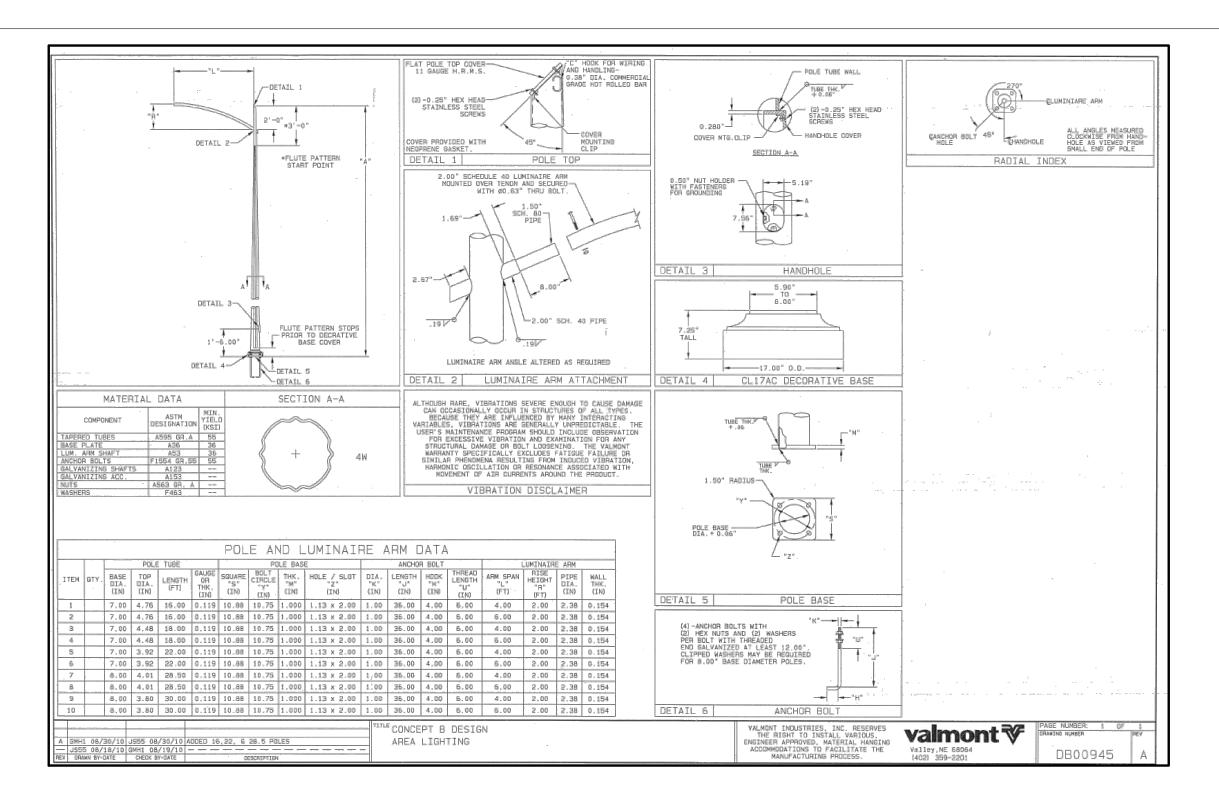
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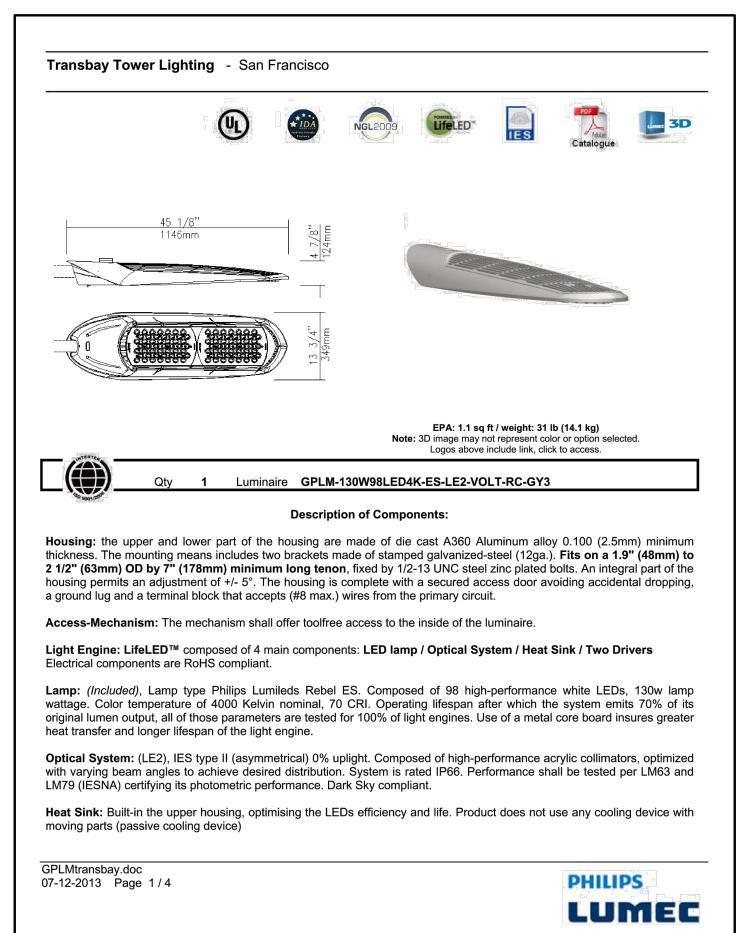
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COORDINATE WITH LHP TO DELIVER 10% OF 6 NEW FIXTURES BEING INSTALLED, (1 SPARE LED FIXTURE HEAD) TO THEIR INVENTORY YARD.

	111	MINAIRE SO		
TYPE	LUMINAIRE	POLE POLE	MATERIAL	QUANTITY
GPLM, LED	130W, 98 LED, 120V	BY OTHERS	ALUMINUM	6 + 1 SPARE

*NOTE: CONTRACTOR TO VERIFY ALL QUANTITIES AND SPECIFICATIONS PRIOR TO ORDERING.

CONTRACTORS NOTES

- 1. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE STATE FIRE MARSHALL, FEDERAL AND ALL APPLICABLE CITY, COUNTY, STATE AND LOCAL UTILITY COMPANY REGULATIONS; N.E.C., AND THE LATEST APPROVED STANDARDS OF I.E.E.E., A.S.A, N.E.M.A., U.L. AND OSHA WHERE APPLICABLE. NOTHING IN THESE PLANS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE ABOVE. ALSO, ALL SECTIONS OF STATE OF CALIFORNIA PUC G.O. 95 SHALL APPLY.
- 2. THE ELECTRICAL CONTRACTOR SHALL INSTALL THE UNDERGROUND SERVICE FROM THE LUMINAIRE TO PG&E SERVICE POINT AND TERMINATE CONDUIT AND WIRES AT BOX AS DIRECTED BY PG&E
- 3. KEEP STREET LIGHTS A MINIMUM OF 3 FEET AWAY FROM THE EDGE OF DRIVEWAYS AND 3 FEET AWAY FROM LOW PRESSURE FIRE HYDRANTS, AND 6 FEET FROM HIGH PRESSURE HYDRANTS.

4. TWO OR MORE STREET LIGHTS ON THE SAME CIRCUIT SHALL BE WIRED TO BALANCE THE LOAD.

- (SEE WIRING DIAGRAM) 5. <u>Conduit and Fittings</u>: all conduit and fittings shall be u.l. approved. Unless OTHERWISE NOTED OR REQUIRED, USE MINIMUM 1-1/2" HOT DIPPED GALVANIZED CONDUIT AND
- FITTINGS, NOT SCHEDULE 40 PVC. MINIMUM RADIUS BENDS SHALL BE 18". PROVIDE PULL WIRE IN ALL EMPTY CONDUITS. ALL CROSSINGS TO BE PERPENDICULAR TO STREET. 6. <u>Conduit Depth</u>: conduit shall not be installed at a depth greater than 36" below PAVEMENT SURFACE, NOR 30" BELOW GROUND SURFACE IN UNPAVED AREAS: AND MINIMUM

DEPTH OF CONDUIT SHALL BE 24" IN ROADWAY AREAS AND 18" IN SIDEWALK AND UNPAVED

- CABLE: ALL WIRING SHALL BE THW INSULATION TYPE. THWN IS NOT ACCEPTABLE FOR STREET LIGHTING. NO. 10 THW SOLID TYPE IN POLE MAY BE USED.
- 8. **SPLICE BOXES:** FURNISH AND INSTALL AS PER SFDPW STANDARD PLANS AND SPECIFICATIONS
- 9. <u>Fuses</u>: Each pole shall be fused with waterproof in-line fuse holders (bushman heb SERIES) AT EACH ADJACENT SPLICE BOX WITH 10 AMP FUSE.
- 10. SPLICING: SPLICES SHALL BE MADE WITH 'C' SHAPED COMPRESSION CONNECTORS OR SPLIT BOLT CONNECTORS. INSTALLED CONNECTORS SHALL BE WRAPPED WITH A MINIMUM OF 4 HALF-LAPPED LAYERS OF RUBBER OR RUBBER MASTIC TAPE. OVERLAP WITH AT LEAST 2 HALF LAPPED LAYERS OF SCOTCH 33+ VINYL OR APPROVED PREMIUM TAPE. AFTER TAPING SPLICES, APPLY SCOTCHKOTE ELECTRICAL COATING EVENLY OVER SPLICES OR AS RECOMMENDED BY THE
- <u>POLE NUMBERS</u>: COORDINATE WITH SFPUC POWER ENTERPRISE (BLHP) STREET LIGHTING
- 12. TRENCH: CONDUIT CAN BE PLACED IN JOINT TRENCH. CONDUIT LAYOUT IS SHOWN SCHEMATICALLY. SEE COMPOSITE DRAWING FOR TRENCH LOCATION. ANY INCIDENTAL TRENCHING NOT PROVIDED BY TRENCHING AGENT IS CONTRACTOR'S RESPONSIBILITY.
- 13. CONTRACTOR TO INSTALL CIRCUIT GROUNDING AND GROUND WIRE IN CONDUIT AS PER PLANS. 14. CENTERLINE OF STREET LIGHTS SHALL BE LOCATED ON THE LOT LINE UNLESS OTHERWISE NOTED
- ON THESE PLANS. 15. A LIST OF ALL MATERIALS & SUPPLIERS SHOULD BE PROVIDED TO AUTHORITY HAVING

16. <u>Burn Test</u>: Day burn for 24 hours for 5 consecutive days for county inspector

- JURISDICTION FOR APPROVAL.
- 17. GROUNDING AND BONDING SHALL PROPERLY INTERCONNECT ALL METAL PARTS OF THE SYSTEM. 18. ALL CONNECTIONS SHALL BE SECURED WITH LOCK NUTS AND INSULATED BUSHINGS.
- 19. CONTRACTOR SHALL CONSULT LOCAL AGENCIES FOR THEIR CIRCUIT GROUNDING REQUIREMENTS.
- 20. WATERPROOF INLINE FUSES SHALL BE PROVIDED IN THE SPLICE BOX NEXT TO EACH NEW OR RELOCATED STREET LIGHT. IF THE DESIGN IS SUCH THAT NO BOXES WILL BE INSTALLED, THE SPLICE SHALL BE LOCATED IN THE HANDHOLE.

IF GROUND WIRE IS REQUIRED IN CONDUIT, INSTALL ACCORDINGLY.

- 21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE OPERATING SYSTEM.
- 22. EACH STREET LIGHT SHALL BE CONTROLLED BY A PHOTO ELECTRIC CELL MOUNTED ON TOP OF EACH LUMINAIRE OR THE TOP OF EACH POLE DEPENDING UPON THE MANUFACTURER'S RECOMMENDATIONS OR CONTROLLED BY OTHER MEANS AS SHOWN ON THE DRAWINGS.
- 23. FOUNDATION MOUNTED ELECTROLIERS SHALL BE PLUMBED BY ADJUSTING THE NUTS ON THE ANCHOR BOLTS BEFORE THE FOUNDATION CAP IS PLACED. SHIMS OR OTHER SIMILAR DEVICES FOR PLUMBING OR RAKING WILL NOT BE PERMITTED. AFTER PLUMBING THE STANDARD, ANCHOR BOLTS SHALL BE CUT OFF 1/4" TO 1/2" ABOVE THE NUTS AND THE EXPOSED SURFACES SHALL BE REPAIRED AS INDICATED BY THE INSPECTING AGENCY.
- 24. AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE STREET LIGHT ADMINISTRATION DEPT. OF THE COUNTY PRIOR TO ACCEPTANCE OF THE STREET LIGHTING SYSTEM.
- 25. CLEARANCE BETWEEN STREETLIGHT AND TREE* SHALL BE IN ACCORDANCE WITH SFDPW ORDINANCE NO. 165-95: 1. SMALL TREE - NO CLOSER THAN 9 FEET.

* MATURE SIZE OF TREE DETERMINED BY SFDPW STREET TREE PLANTING GUIDE.

- 2. MEDIUM TREE NO CLOSER THAN 15 FEET. 3. LARGE TREE - NO CLOSER THAN 21 FEET.
- 26. EACH STREET LIGHT POLE MUST HAVE AN INDIVIDUAL PULL BOX INSTALLED IN THE SIDEWALK WITHIN 3 TO 5 FEET OF THE BASE FOUNDATION.

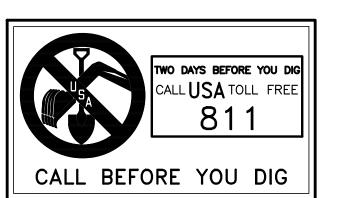
STREET LIGHTING GENERAL NOTES

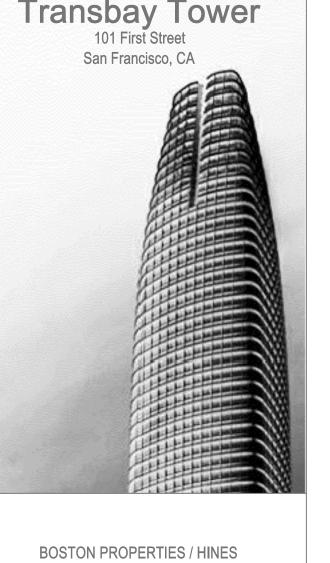
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- MATERIALS FURNISHED UNDER THIS SECTION OF THESE SPECIFICATIONS FOR WHICH UL STANDARDS HAVE BEEN ESTABLISHED SHALL BE LISTED AND BEAR THE LABEL OF UNDERWRITER'S LABORATORIES, INC.
- WHERE REQUIREMENTS OF APPLICABLE CODES AND STANDARDS CONFLICT WITH THE DRAWINGS OR THESE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
- 4. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT FIRST NOTIFYING & OBTAINING APPROVAL FROM CITY/COUNTY AGENCY & GIACALONE DESIGN SERVICES,
- 5. GIACALONE DESIGN SERVICES, INC. ASSUMES NO RESPONSIBILITY FOR ANY VARIANCE BETWEEN THESE PLANS AND THE ACTUAL FIELD CONDITIONS. CONTRACTOR SHOULD REVIEW PROJECT SITE PRIOR TO SUBMITTING ITS BID.
- 6. LEGEND SYMBOLS ARE SHOWN IN STREET AREA FOR CLARITY. INSTALL BEHIND CURB AND/OR SIDEWALK PER COUNTY SPECIFICATIONS KEEP CLEAR OF DRIVEWAYS AND PATHWAYS (TYPICAL).
- ANY CHANGES OR MODIFICATIONS TO PROPOSED STREET LIGHT LOCATIONS SHALL BE APPROVED, IN WRITING, BY THE CITY/COUNTY AGENCY PRIOR TO INSTALLATION.

<u>CAUTION</u>:

CONTACT U.S.A. (811) (2) FULL WORKING DAYS PRIOR TO STARTING WORK IF EXISTING UTILITIES CONFLICT WITH POLE LOCATION, FIELD ADJUST TO CLEAR EXISTING UTILITIES A MINIMUM OF 3'-0".







PELLI CLARKE PELLI ARCHITECTS Design Architect

KENDALL/HEATON ASSOCIATES, INC.

Architect of Record MAGNUSSON KLEMENCIC ASSOCIATES

Structural Engineer

WSP MEPFP Engineer

PWP LANDSCAPE ARCHITECTURE Landscape Architect

> **BKF ENGINEERS** Civil Engineer

PERSOHN/HAHN ASSOCIATES, INC. Elevator Consultant

AON FIRE PROTECTION ENGINEERING Building Security

> HWA PARKING Parking Consultant

Geotechnical Consultant

HLB LIGHTING DESIGN, INC. Lighting Consultant

CERAMI AND ASSOCIATES, INC. Acoustical Consultant

MORRISON HERSHFIELD Curtain Wall Consultant

ENVIRONMENTAL BUILDING STRATEGIES LEED Consultant

HMA CONSULTING Building Management and Controls Engineer

C.S. CAULKINS CO., INC.

Window Washing Consultant

ENGINEERING SPECIALTIES GROUP Aerial Tram Consultant

DEBRA NICHOLS DESIGN

Graphic Design Consultant

ROYSTON HANAMOTO ALLEY & ABEY Landscape Architect of Record

2 06 MAY 13 SITE PERMIT REVISION NO. 2 1 11 MAR 13 SITE PERMIT NO. DATE ISSUE CAD FILENAME

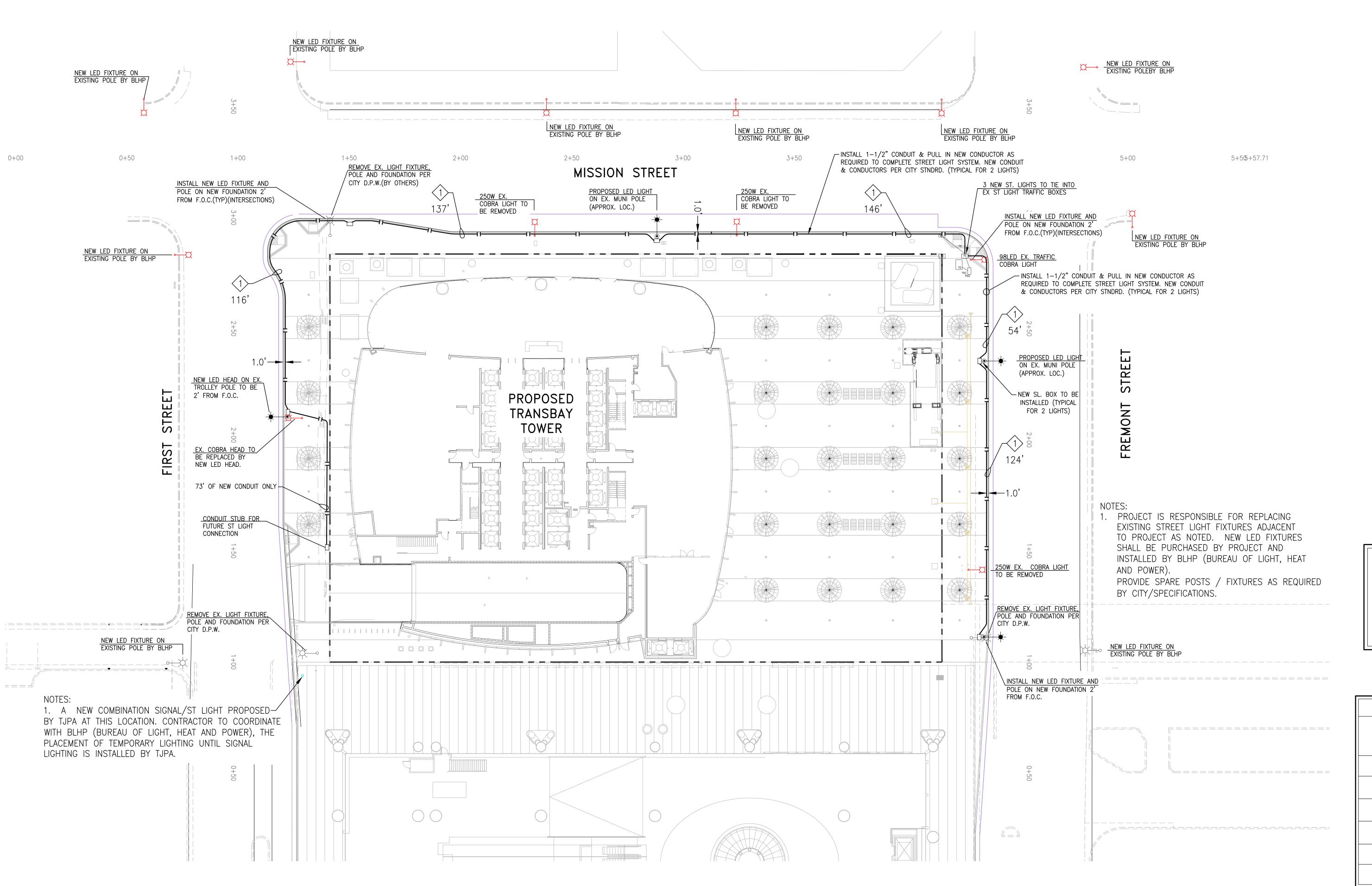
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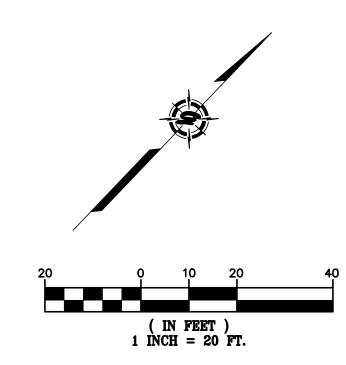
08044

DRAWING TITLE

STREET LIGHTING TITLE SHEET

DRAWING NUMBER SL1





LEGEND

PROPOSED 1 1/2" HOT DIPPED CONDUIT

PROPOSED SINGLE ARM STREET LIGHT (LED)

EXISTING STREET LIGHT

STREET LIGHT BOX (STATE TYPE 3 1/2)

CONDUCTOR AND CONDUIT SCHEDULE								•
AWG		RUN NUMBER						
OR		NUMBER OF CONDUCTORS						
CABLE		\Diamond	2>					
#4								
#6	GND							
До	OND	2	3					
#8	GND							
#10	GND	1	1					
#12								
# 1 4	GND							
CONDUIT SIZE		1½"	1½"					

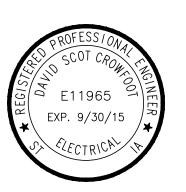
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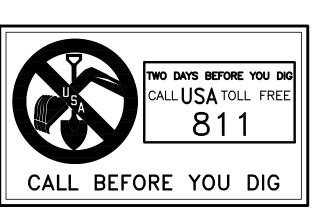
CONTACT U.S.A. (811) (2) FULL WORKING DAYS PRIOR

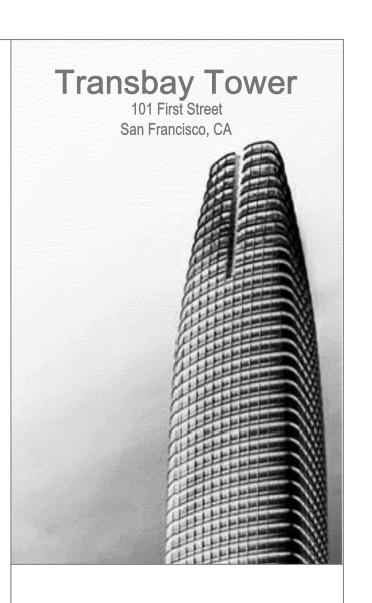
TO STARTING WORK IF EXISTING UTILITIES CONFLICT WITH

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BOSTON PROPERTIES / HINES

PELLI CLARKE PELLI ARCHITECTS

Design Architect

KENDALL/HEATON ASSOCIATES, INC.

MAGNUSSON KLEMENCIC ASSOCIATES

Architect of Record

Structural Engineer

WSP MEPFP Engineer

PWP LANDSCAPE ARCHITECTURE

Landscape Architect

BKF ENGINEERS
Civil Engineer

PERSOHN/HAHN ASSOCIATES, INC.
Elevator Consultant

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Graphic Design Consultant

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Landscape Architect of Record

7	02 MAY 14	GMP
6	10 FEB 14	BID ADDENDUM #2
5	16 DEC 13	BID AND ADDENDUM #3 PERMIT
4	18 DEC 13	RESPONSE TO COMMENTS
3	29 OCT 13	STREET IMPROVEMENT PERMIT
		PIPE BARRIER PERMIT
		SIDEWALK WIDENING PROCESS
2	06 MAY 13	SITE PERMIT REVISION NO. 2
1	11 MAR 13	SITE PERMIT
NO.	DATE	ISSUE
CAD FIL	.ENAME	

DRAWING TITLE

KHA PROJECT NO.

08044

STREET LIGHTING SITE PLAN

DRAWING NUMBER SL2