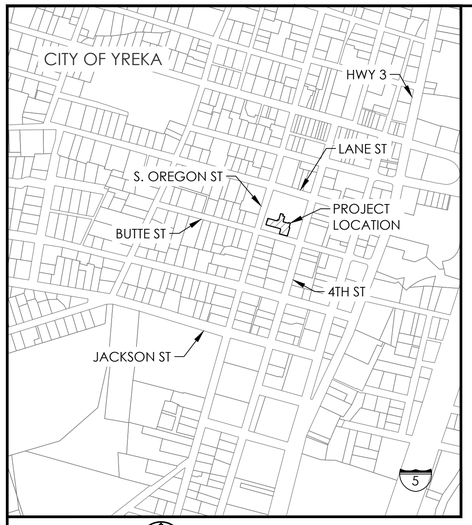
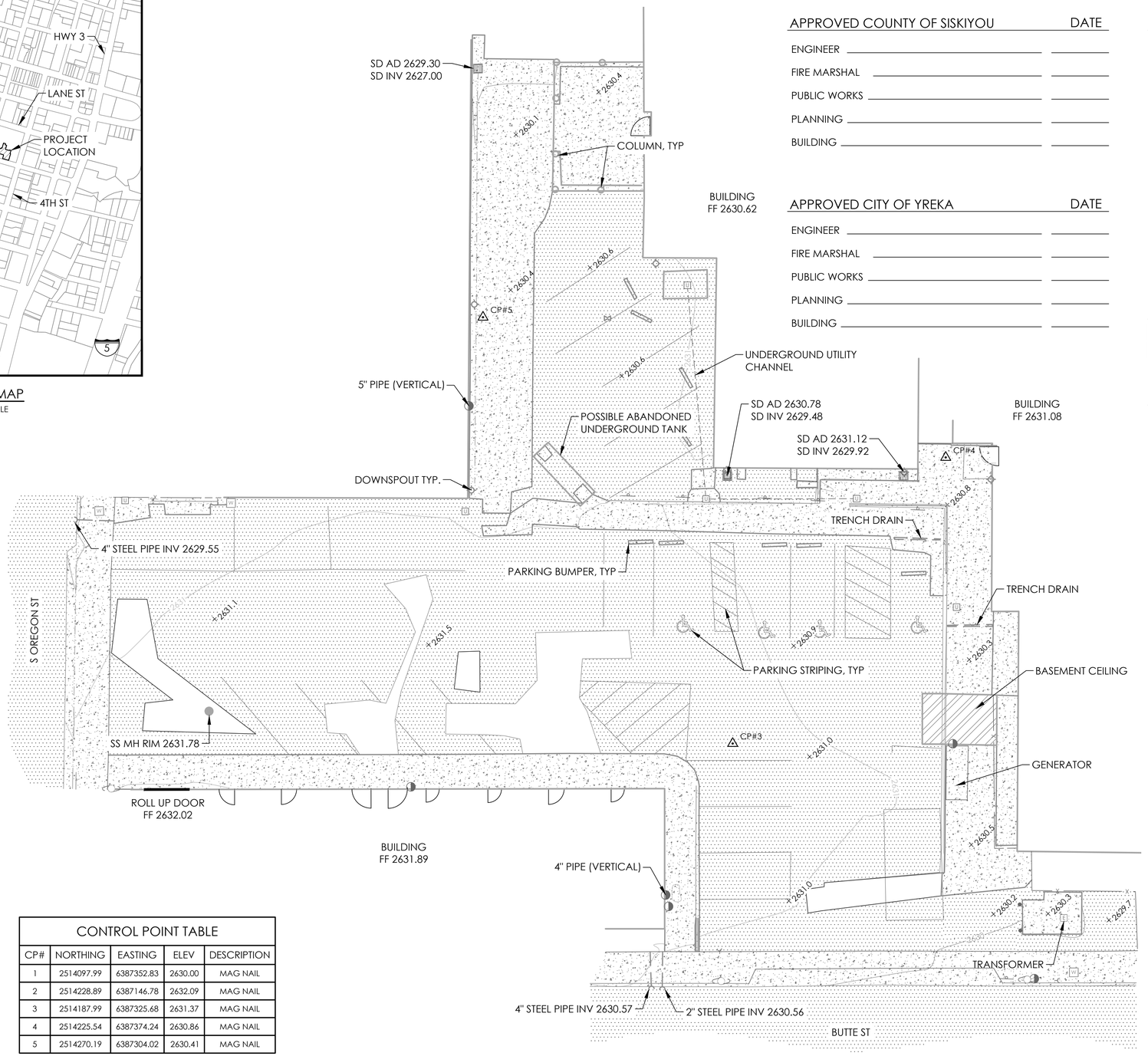


VICINITY MAP
NOT TO SCALE



APPROVED COUNTY OF SISKIYOU		DATE
ENGINEER		
FIRE MARSHAL		
PUBLIC WORKS		
PLANNING		
BUILDING		

APPROVED CITY OF YREKA		DATE
ENGINEER		
FIRE MARSHAL		
PUBLIC WORKS		
PLANNING		
BUILDING		

SYMBOL LEGEND

- AREA DRAIN
- BOLLARD
- CONDUIT
- CP# CONTROL POINT
- DOWNSPOUT
- PIPE CULVERT/OUTLET
- E ELECTRICAL PANEL / BOX
- GUY ANCHOR
- POLE- JOINT UTILITY
- SANITARY SEWER MANHOLE
- SIGN
- U UNKNOWN UTILITY VAULT
- W WATER METER/BOX
- WATER VALVE

LINE LEGEND

- VERTICAL CURB
- EP
- CONC
- FLOWLINE
- x FENCE

HATCH LEGEND

- CONCRETE
- PAVEMENT

ABBREVIATIONS

AD	AREA DRAIN
CO	CLEANOUT
CONC	CONCRETE
CP	CONTROL POINT
DS	DOWNSPOUT
D/W	DRIVEWAY
EL/ELEV	ELEVATION
FF	FINISH FLOOR
GR	GRATE
INV	INVERT
MH	MANHOLE
SD	STORM DRAIN
SS	SANITARY SEWER
TYP	TYPICAL
W	WATER
WV	WATER VALVE

PROJECT TEAM

OWNER (COUNTY OF SISKIYOU):
AMANDA KIMBALL (DIRECTOR OF FACILITIES)
EMAIL: AKimball2@co.siskiyou.ca.us
PHONE: (530) 842-8800

ADS/STORMTECH CONTACT:
NELSON TEJADA
EMAIL: Nelson.Tejada@adspipe.com
PHONE: (916) 990-2279

PROJECT DESIGN TEAM (PACE):
SHAWN WADE (PROJECT MANAGER)
EMAIL: SWade@paceengineering.us
PHONE: (530) 244-0202

RYAN TURNER (CIVIL ENGINEER)
EMAIL: RTurner@paceengineering.us
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NICHOLAS PECK (ELECTRICAL ENGINEER)
EMAIL: NPeck@paceengineering.us
PHONE: (530) 244-0202

LIBERTY PUMP CONTACT:
JON EMASIE
EMAIL: Jon.Emasie@libertypumps.com
PHONE: (800) 543-2550

SURVEY NOTES

1. THIS SURVEY WAS CONDUCTED ON 5/2/2024.
2. COORDINATE SYSTEM: CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83), ZONE 1, (EPOCH 2017.5).
3. VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), (GEOID 18)
4. CONTOUR INTERVAL: 1 FOOT.
5. UNITS OF MEASUREMENT SHOWN HEREON ARE IN TERMS OF THE U.S. SURVEY FOOT AND DECIMALS THEREOF.
6. UTILITIES/FEATURES SHOWN HEREON ARE BASED UPON ABOVE-GROUND, OBSERVED EVIDENCE ONLY.

SHEET INDEX

CONTROL POINT TABLE

CP#	NORTHING	EASTING	ELEV	DESCRIPTION
1	2514097.99	6387352.83	2630.00	MAG NAIL
2	2514228.89	6387146.78	2632.09	MAG NAIL
3	2514187.99	6387325.68	2631.37	MAG NAIL
4	2514225.54	6387374.24	2630.86	MAG NAIL
5	2514270.19	6387304.02	2630.41	MAG NAIL

0 10 20
1 IN = 10 FT

PERMIT SET

BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

REVISIONS

NO	DATE	DESCRIPTION

PACE ENGINEERING

DES	RT	CKD	TJ/SWa	JOB NO.
DRN	RT	DATE	9/10/24	0470.22

SIGNED 9/10/24
REGISTERED PROFESSIONAL ENGINEER RYAN A. TURNER No. 94742 CIVIL STATE OF CALIFORNIA

SISKIYOU COUNTY GOVERNMENT CENTER
PARKING LOT IMPROVEMENTS

TITLE SHEET AND TOPOGRAPHIC MAP

SHEET
C1.0
PG 1 OF 17

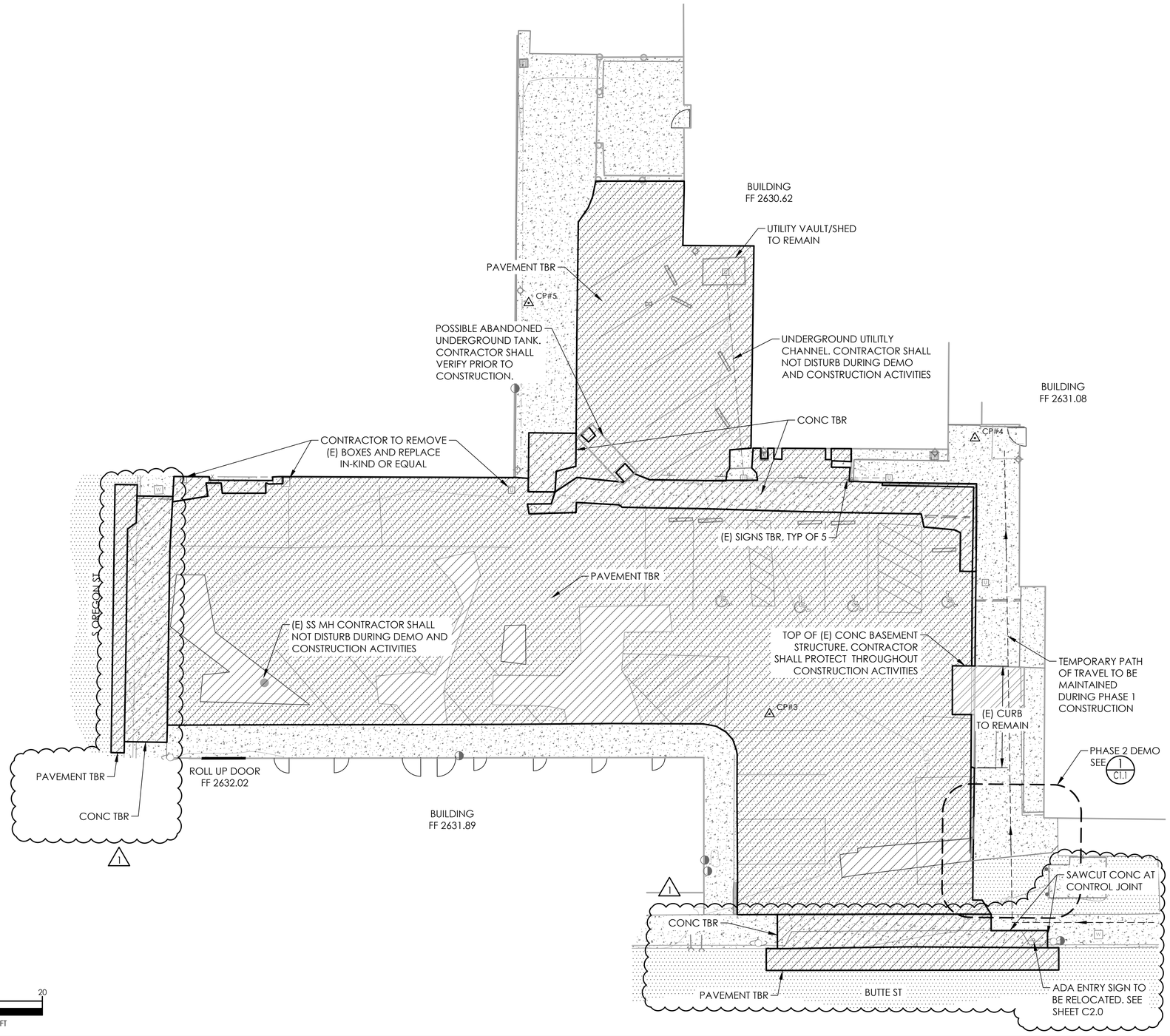
Plot Date: September 10, 2024 - 9:03 am Login Name: rturner
File Name: M:\land projects\0470.22 government center ada parking\01 CAD\05 CD\Topo.dwg Layout: Topo

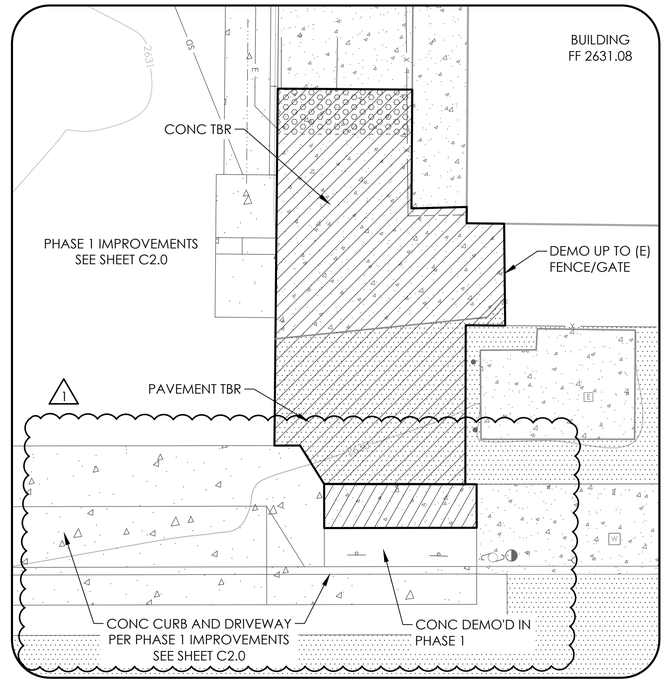
DEMOLITION LEGEND

TBA	TO BE ABANDONED
TBR	TO BE REMOVED
▨	DEMOLITION AREA (CONC, SIDEWALK, PAVEMENT)

DEMOLITION NOTES:

1. CALL USA (811 OR 1-800-227-2600) 48 HOURS PRIOR TO ANY DEMOLITION ACTIVITIES TO LOCATE UTILITIES.
2. CONTRACTOR SHALL COORDINATE AND ARRANGE FOR THE DISCONNECTION OF ALL UTILITIES BEING MODIFIED OR DEMOLISHED WITH THE OWNER AND UTILITY COMPANIES. THE CONTRACTOR SHALL PROPERLY CAP ALL UNUSED OR ABANDONED UTILITIES.
3. ALL DEMOLISHED MATERIALS NOT CALLED OUT IN THE DRAWINGS TO BE RETURNED TO THE OWNER ARE TO BE PROPERLY DISPOSED OF OFF-SITE.
4. THE CONTRACTOR SHALL MAINTAIN EXISTING STORM DRAINAGE SYSTEMS TO FUNCTION THROUGHOUT THE CONSTRUCTION PERIOD WITH APPROPRIATE EROSION AND SEDIMENT CONTROL DEVICES IN PLACE AS SHOWN ON SHEET C4.0.
5. IT IS THE CONTRACTORS RESPONSIBILITY TO REMOVE AND LEGALLY DISPOSE OF ANY EXCESS FILL MATERIAL AND WASTE GENERATED DURING GRADING AND CONSTRUCTION OPERATIONS.
6. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE PROTECTION OF ALL PROPERTY CORNER MONUMENTS, AND SHALL HAVE, AT HIS EXPENSE, ALL CORNER MONUMENTS REPLACED WHICH ARE DISTURBED BY CONSTRUCTION ACTIVITIES.





PHASE 2 DEMO PLAN
1" = 5' (1/C1.1)

PERMIT SET

BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
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REVISIONS

NO	DATE	DESCRIPTION
1	9-9-24	DRIVEWAY ENTERANCE IMPROVEMENTS

PACE ENGINEERING

DES RT | CKD TJ/SWa | JOB NO. 0470.22
DRN RT | DATE 9/10/24

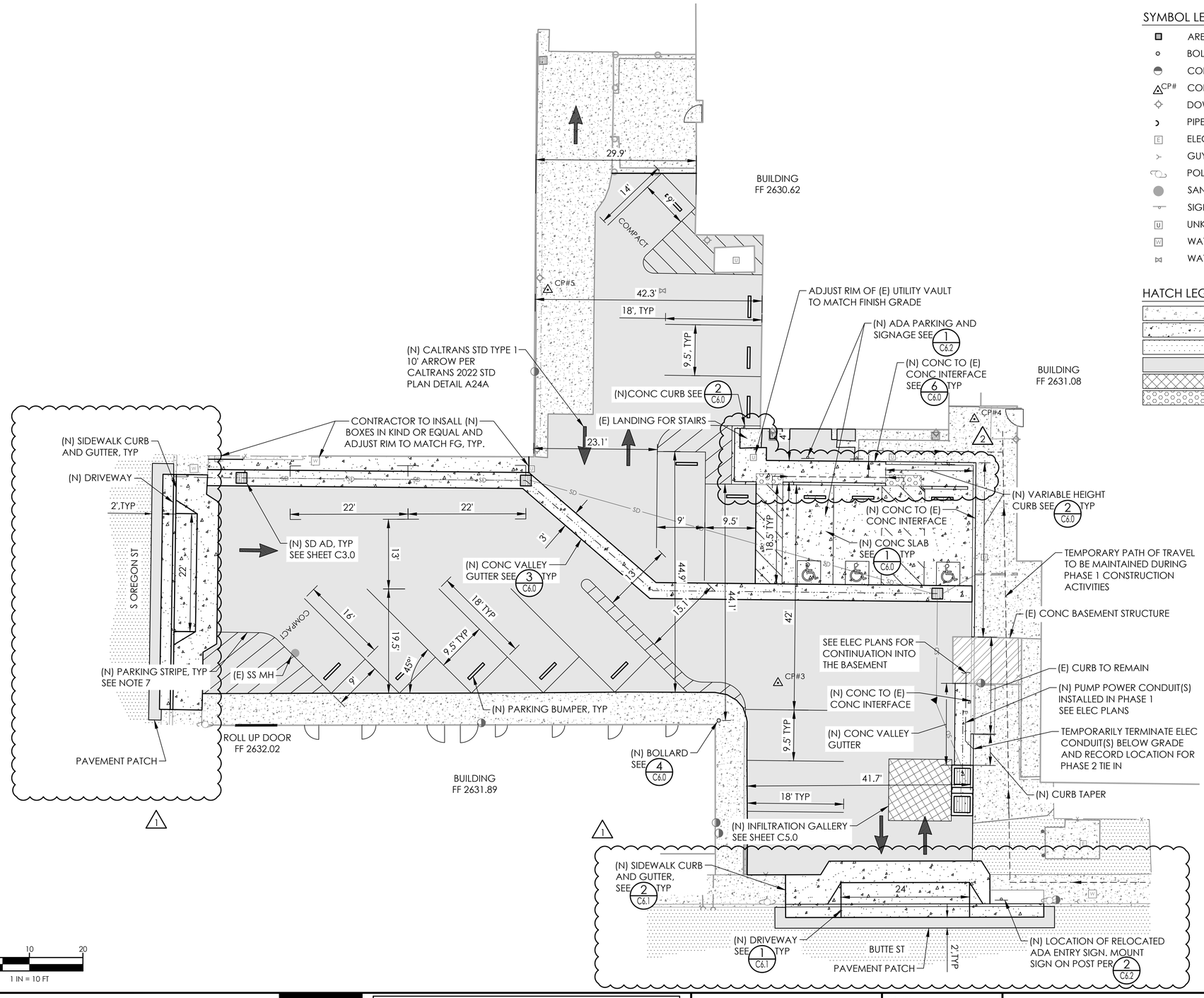
SIGNED 9/10/24
REGISTERED PROFESSIONAL ENGINEER
RYAN K. TURNER
No. 94742
CIVIL
STATE OF CALIFORNIA

SISKIYOU COUNTY GOVERNMENT CENTER
PARKING LOT IMPROVEMENTS

DEMO PLAN

SHEET
C1.1
PG 2 OF 17

Plot Date: September 10, 2024 - 9:03 am Login Name: rturner
File Name: M:\land projects\0470\22 government center ada parking\01 CAD\05 CD\Topo\dwg Layout: Demo



SYMBOL LEGEND

- AREA DRAIN
- BOLLARD
- CONDUIT
- CP# CONTROL POINT
- DOWNSPOUT
- PIPE CULVERT/OUTLET
- ELECTRICAL PANEL / BOX
- GUY ANCHOR
- POLE- JOINT UTILITY
- SANITARY SEWER MANHOLE
- SIGN
- UNKNOWN UTILITY VAULT
- WATER METER/BOX
- WATER VALVE

LINE LEGEND

- VERTICAL CURB
- (E) EP
- (N) EP
- (E) CONC
- (N) CONC
- FLOWLINE

HATCH LEGEND

- (E) CONCRETE
- (N) CONCRETE
- (E) PAVEMENT
- (N) PAVEMENT (3" HMA OVER 12" AB)
- INFILTRATION GALLERY, SEE C5.0
- TRUNCATED DOMES, SEE NOTE 8

ABBREVIATIONS

AD	AREA DRAIN
CO	CLEANOUT
CONC	CONCRETE
CP	CONTROL POINT
DS	DOWNSPOUT
D/W	DRIVEWAY
(E)	EXISTING
EL/ELEV	ELEVATION
ELEC	ELECTRICAL
FF	FINISH FLOOR
FG	FINISH GRADE
GR	GRATE
INV	INVERT
MH	MANHOLE
(N)	NEW
SD	STORM DRAIN
SS	SANITARY SEWER
TYP	TYPICAL
W	WATER
WV	WATER VALVE

NOTES

1. THE CONSTRUCTION AND INSTALLATION OF IMPROVEMENTS SHALL CONFORM TO THESE PLANS, THE CITY OF YREKA CONSTRUCTION STANDARDS, STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION 2022 STANDARD PLANS AND SPECIFICATIONS (RSS), AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK).
2. THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT PRIOR TO ANY WORK IN THE STREET RIGHT-OF-WAY.
3. CALL USA (811) TO LOCATE ALL UTILITIES 48 HOURS PRIOR TO ANY CONSTRUCTION.
4. ANY CHANGES IN THESE PLANS ARE TO RECEIVE PRIOR APPROVAL OF THE OWNER AND PACE ENGINEERING, INC.
5. POTHOLE AND VERIFY LOCATIONS OF ALL PIPE AND UTILITY CROSSINGS PRIOR TO CONSTRUCTION.
6. PARKING BUMPERS SHALL BE 4-FOOT LONG PRE-CAST CONCRETE AS PER COOK CONCRETE PRODUCTS, ITEM PB 4 OR EQUAL. EACH BUMPER SHALL BE ANCHORED WITH TWO PIECES OF ½-INCH REBAR, 24" LONG.
7. ALL PAVEMENT STRIPES AND MARKINGS SHALL BE WATERBASED PER CALTRANS RSS SECTION 84-2.02C.
8. TRUNCATED DOMES SHALL HAVE A MINNIMUM WIDTH OF 36", UNLESS NOTED OTHERWISE ON SHEET C6.2 AND CONFORM TO CALIFORNIA BUILDING CODE (CBC) SECTION 11B-705 IN THE AREAS SHOWN ON THE DRAWINGS.

PARKING SPACE ANALYSIS		
TYPE	EXISTING	PROPOSED
REGULAR SPACES	12	14
ADA ACCESSIBLE SPACES	4	3
COMPACT SPACES	4	2
TOTAL SPACES	20	19

PERMIT SET

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0" 1"
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REVISIONS		
NO	DATE	DESCRIPTION
1	9-9-24	DRIVEWAY ENTERANCE IMPROVEMENTS
2	9-18-24	PLAN CHECK REVISIONS

PACE ENGINEERING

DES RT	CKD TJ/SWa	JOB NO.
DRN RT	DATE 9/18/24	0470.22

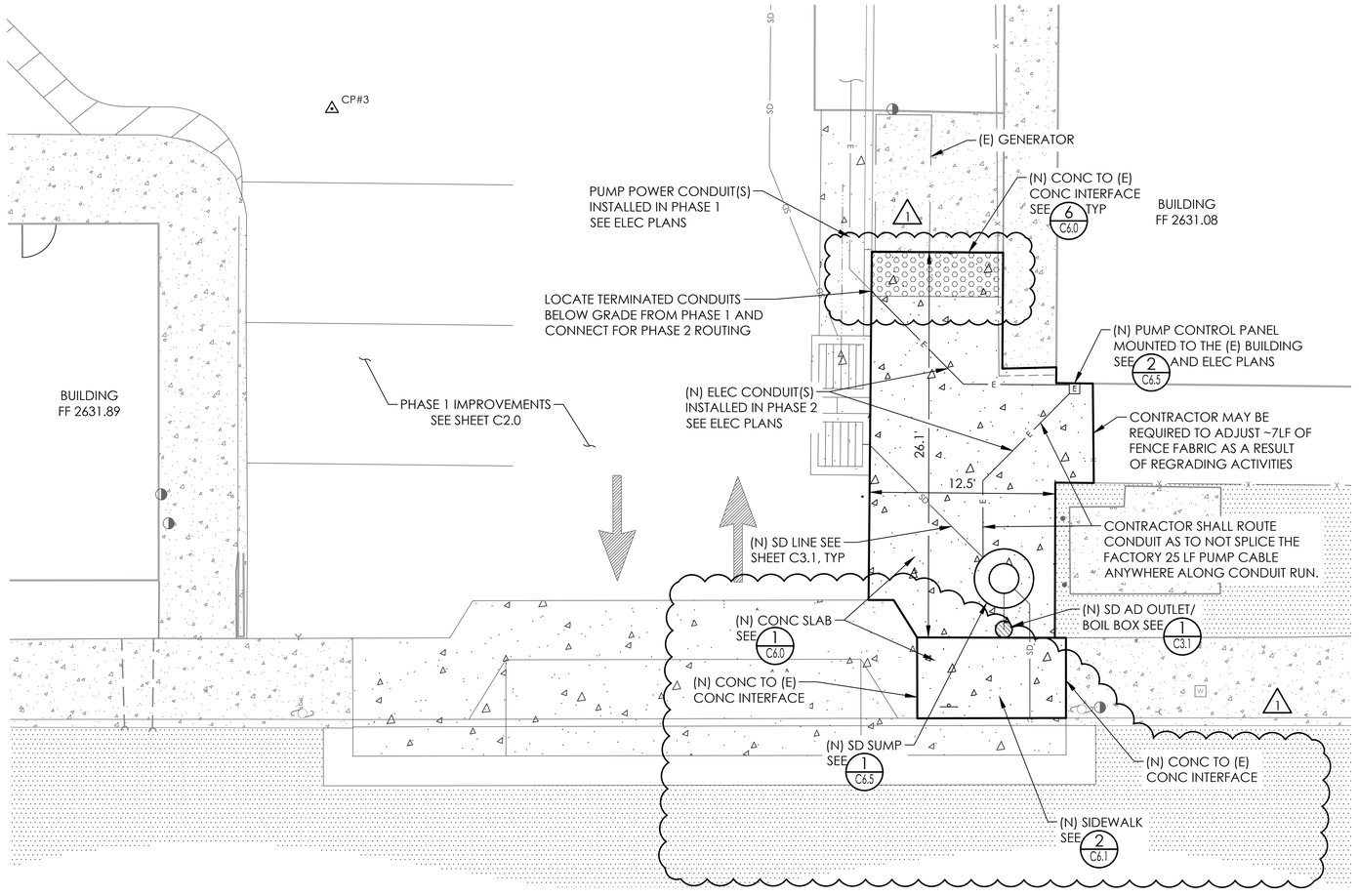
SIGNED 9/18/24
REGISTERED PROFESSIONAL ENGINEER RYAN K. TURNER No. 94742 CIVIL STATE OF CALIFORNIA

SISKIYOU COUNTY GOVERNMENT CENTER
PARKING LOT IMPROVEMENTS

PHASE 1 SITE PLAN

SHEET
C2.0
PG 3 OF 17

Plot Date: September 18, 2024 - 2:02 pm Login Name: rturner
File Name: M:\land projects\0470\22 government center ada parking\01 CAD\05 CD\Sitedwg Layout: P1 Site



SYMBOL LEGEND

- AREA DRAIN
- BOLLARD
- CONDUIT
- CP# CONTROL POINT
- DOWNSPOUT
- PIPE CULVERT/OUTLET
- E ELECTRICAL PANEL / BOX
- GUY ANCHOR
- POLE- JOINT UTILITY
- SANITARY SEWER MANHOLE
- SIGN
- U UNKNOWN UTILITY VAULT
- W WATER METER/BOX
- WATER VALVE

HATCH LEGEND

- (E) CONCRETE
- (N) CONCRETE
- (E) PAVEMENT
- TRUNCATED DOMES

LINE LEGEND

- VERTICAL CURB
- (E) EP
- (N) EP
- (E) CONC
- (N) CONC
- FLOWLINE
- E (N) ELECTRICAL LINE
- SD (N) STORM DRAIN LINE

ABBREVIATIONS

AD	AREA DRAIN
CO	CLEANOUT
CONC	CONCRETE
CP	CONTROL POINT
DS	DOWNSPOUT
D/W	DRIVEWAY
(E)	EXISTING
EL/ELEV	ELEVATION
ELEC	ELECTRICAL
FF	FINISH FLOOR
FG	FINISH GRADE
GR	GRATE
INV	INVERT
LF	LINEAL FEET
MH	MANHOLE
(N)	NEW
SD	STORM DRAIN
SS	SANITARY SEWER
TYP	TYPICAL
W	WATER
WV	WATER VALVE

N

0 5 10

1 IN = 5 FT

PERMIT SET

BAR IS ONE INCH ON ORIGINAL DRAWING

0" 1"

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REVISIONS

NO	DATE	DESCRIPTION
1	9-9-24	DRIVEWAY ENTERANCE IMPROVEMENTS

PACE ENGINEERING

DES RT CKD TJ/SWg JOB NO.

DRN RT DATE 9/10/24 0470.22

SIGNED 9/10/24

REGISTERED PROFESSIONAL ENGINEER
KIMA A. TURNER
No. 94742
CIVIL
STATE OF CALIFORNIA

SISKIYOU COUNTY GOVERNMENT CENTER
PARKING LOT IMPROVEMENTS

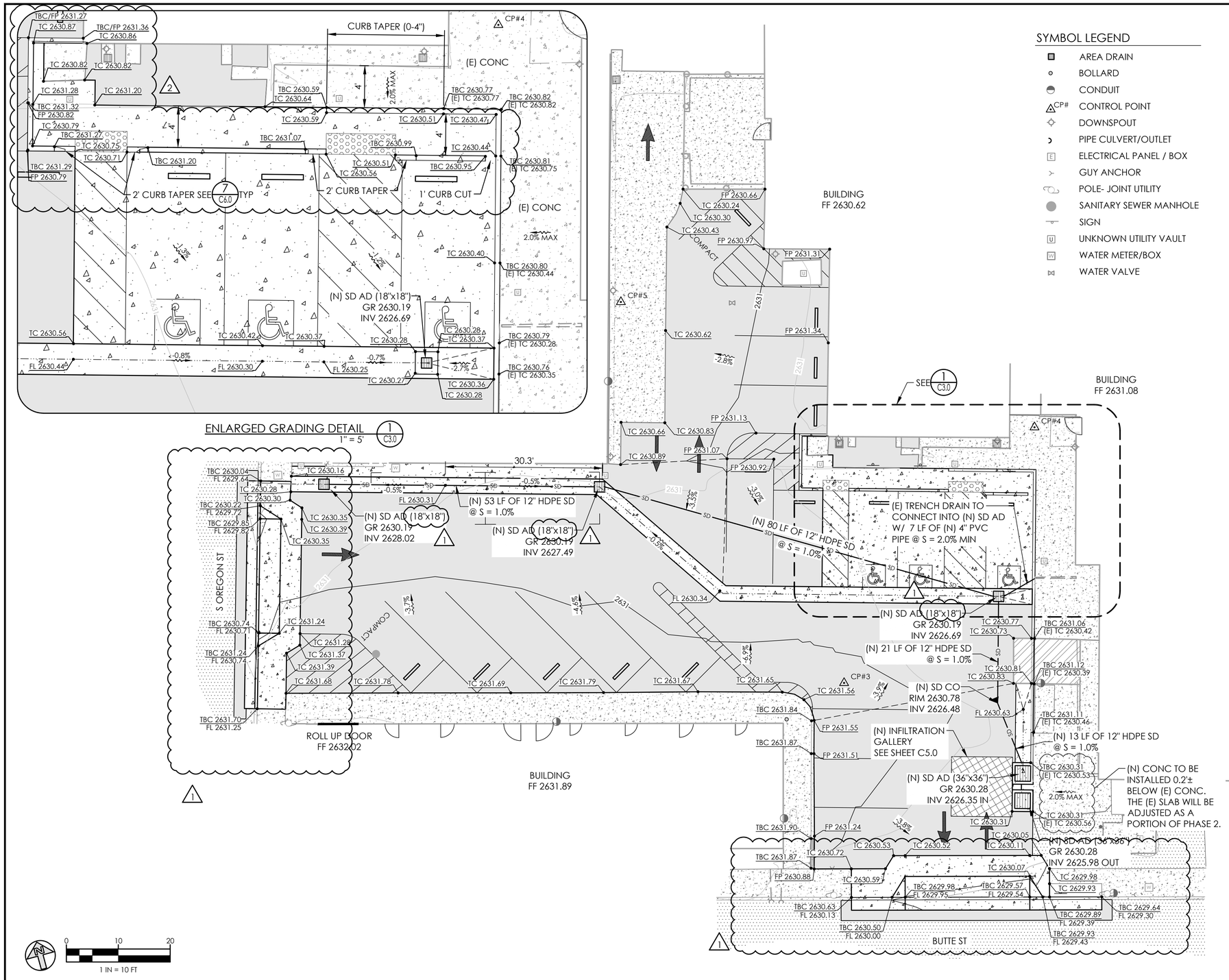
PHASE 2 SITE PLAN

SHEET

C2.1

PG 4 OF 17

Plot Date: September 10, 2024 - 9:04 am Login Name: rturner
File Name: M:\land projects\0470\22 government center ada parking\01 CAD\05 CD\SiteDwg Layout: P2 Site



ENLARGED GRADING DETAIL 1 C3.0
1" = 5'

SYMBOL LEGEND

- AREA DRAIN
- BOLLARD
- CONDUIT
- CP# CONTROL POINT
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- SIGN
- U UNKNOWN UTILITY VAULT
- W WATER METER/BOX
- WATER VALVE

LINE LEGEND

- VERTICAL CURB
- (E) EP
- (N) EP
- (E) CONC
- (N) CONC
- FLOWLINE
- SD (N) STORM DRAIN LINE

HATCH LEGEND

- (E) CONCRETE
- (N) CONCRETE
- (E) PAVEMENT
- (N) PAVEMENT, SEE SHEET C2.0
- INFILTRATION GALLERY, SEE C5.0

ABBREVIATIONS

AB	AGGREGATE BASE
AD	AREA DRAIN
CO	CLEANOUT
CONC	CONCRETE
CP	CONTROL POINT
DS	DOWNSPOUT
(E)	EXISTING
ELB	ELBOW
EL/ELEV	ELEVATION
ELEC	ELECTRICAL
FF	FINISH FLOOR
FP	FINISH PAVEMENT
FL	FLOWLINE
FG	FINISH GRADE
GR	GRATE
HMA	HOT MIX ASPHALT
INV	INVERT
LF	LINEAL FEET
MH	MANHOLE
(N)	NEW
S	SLOPE
SD	STORM DRAIN
SS	SANITARY SEWER
TBC	TOP BACK OF CURB
TC	TOP OF CONCRETE
TYP	TYPICAL
W/	WITH
W	WATER
WV	WATER VALVE

NOTES

1. SEE SHEET C2.0 FOR DIMENSIONS NOT SHOWN.
2. ALL SITE CONCRETE SHALL BE CLASS 520-C-2500 AND CONFORM TO THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (GREENBOOK), UNLESS OTHERWISE SHOWN. APPLY LIGHT BROOM FINISH TO ALL WALKWAYS. CONSTRUCT CONTROL JOINTS (WEAKENED PLANE JOINTS) AND EXPANSION JOINTS IN CURBS, GUTTERS, AND WALKS PER DETAILS ON SHEET C6.0.
3. HOT MIX ASPHALT (HMA) SHALL CONFORM TO THE REQUIREMENTS OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD SPECIFICATIONS FOR BE TYPE A, 1/2-INCH MAXIMUM SIZE AGGREGATE. ASPHALT BINDER SHALL BE PG 64-28.
4. AGGREGATE BASE SHALL BE 3/4" CLASS 2 AGGREGATE BASE PER STATE SPECIFICATIONS, SECTION 26. COMPACT TO 95% OF MAXIMUM DENSITY AS MEASURED BY ASTM D-1557.
5. ALL STORM DRAIN PIPE (6" AND LARGER) SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) WITH SMOOTH INTERIOR CONFORMING WITH AASHTO M294 OR APPROVED EQUAL, UNLESS NOTED OTHERWISE.
6. ALL STORM DRAIN PIPE (4" AND SMALLER) SHALL BE POLYVINYL CHLORIDE (PVC) SCHEDULE 80, UNLESS NOTED OTHERWISE.
7. NEW AREA DRAINS SHALL BE COOK OR APPROVED EQUAL, GRATE SIZE AS NOTED. SHAPE BOTTOM TO DRAIN TO OUTLET WITH 4" MINIMUM THICKNESS OF CONCRETE. ALIGN CROWNS OF INLET AND OUTLETS PIPES, UNLESS NOTED OTHERWISE.
8. ALL UNDERGROUND UTILITIES SHALL BE INSTALLED WITH CLASS "A" TRENCH BACKFILL, SEE SHEET C6.0. GRAVEL BACKFILL SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS MEASURED BY ASTM D-1557.
9. ALL GRADES SHOWN ARE FINISH GRADES. ALLOW FOR VARIOUS THICKNESS OF BASE, PAVING AND CONCRETE IN PREPARING SUBGRADE.
10. GRADE SITE TO THE GRADES SHOWN. COMPACT FILL AREAS AND TOP 6" OF CUT AREAS TO 95% OF MAXIMUM DENSITY AS MEASURED BY ASTM D-1557. IMPORT OR EXPORT AS NECESSARY.
11. ALL AREAS TO RECEIVE FILL ARE TO BE SCARIFIED A MINIMUM DEPTH OF 8", MOISTURE CONDITIONED, AND COMPACTED TO 95% OF MAXIMUM DENSITY AS MEASURED BY ASTM D-1557.

0 10 20
1 IN = 10 FT

PERMIT SET

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0" 1"
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REVISIONS

NO	DATE	DESCRIPTION
1	9-9-24	DRIVEWAY ENTERANCE IMPROVEMENTS
2	9-18-24	PLAN CHECK REVISIONS

PACE ENGINEERING

DES	RT	CKD TJ/SWa	JOB NO.
DRN	RT	DATE 9/18/24	0470.22

SIGNED 9/18/24
REGISTERED PROFESSIONAL ENGINEER RYAN K. TURNER No. 94742 CIVIL STATE OF CALIFORNIA

SISKIYOU COUNTY GOVERNMENT CENTER
PARKING LOT IMPROVEMENTS

PHASE 1 GRADING PLAN

SHEET
C3.0
PG 5 OF 17

Plot Date: September 18, 2024 - 2:02 pm Login Name: rturner
File Name: M:\land projects\0470\22 government center ada parking\01 CAD\05 CD\Grading\dwg Layout: Grading P1

SYMBOL LEGEND

- AREA DRAIN
- BOLLARD
- CONDUIT
- CP# CONTROL POINT
- DOWNSPOUT
- PIPE CULVERT/OUTLET
- E ELECTRICAL PANEL / BOX
- GUY ANCHOR
- POLE- JOINT UTILITY
- SANITARY SEWER MANHOLE
- SIGN
- U UNKNOWN UTILITY VAULT
- W WATER METER/BOX
- WATER VALVE

LINE LEGEND

- VERTICAL CURB
- (E) EP
- (N) EP
- (E) CONC
- (N) CONC
- FLOWLINE
- E (N) ELECTRICAL LINE
- SD (N) STORM DRAIN LINE

HATCH LEGEND

- (E) CONCRETE
- (N) CONCRETE
- (E) PAVEMENT

ABBREVIATIONS

AB	AGGREGATE BASE
AD	AREA DRAIN
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SD	STORM DRAIN
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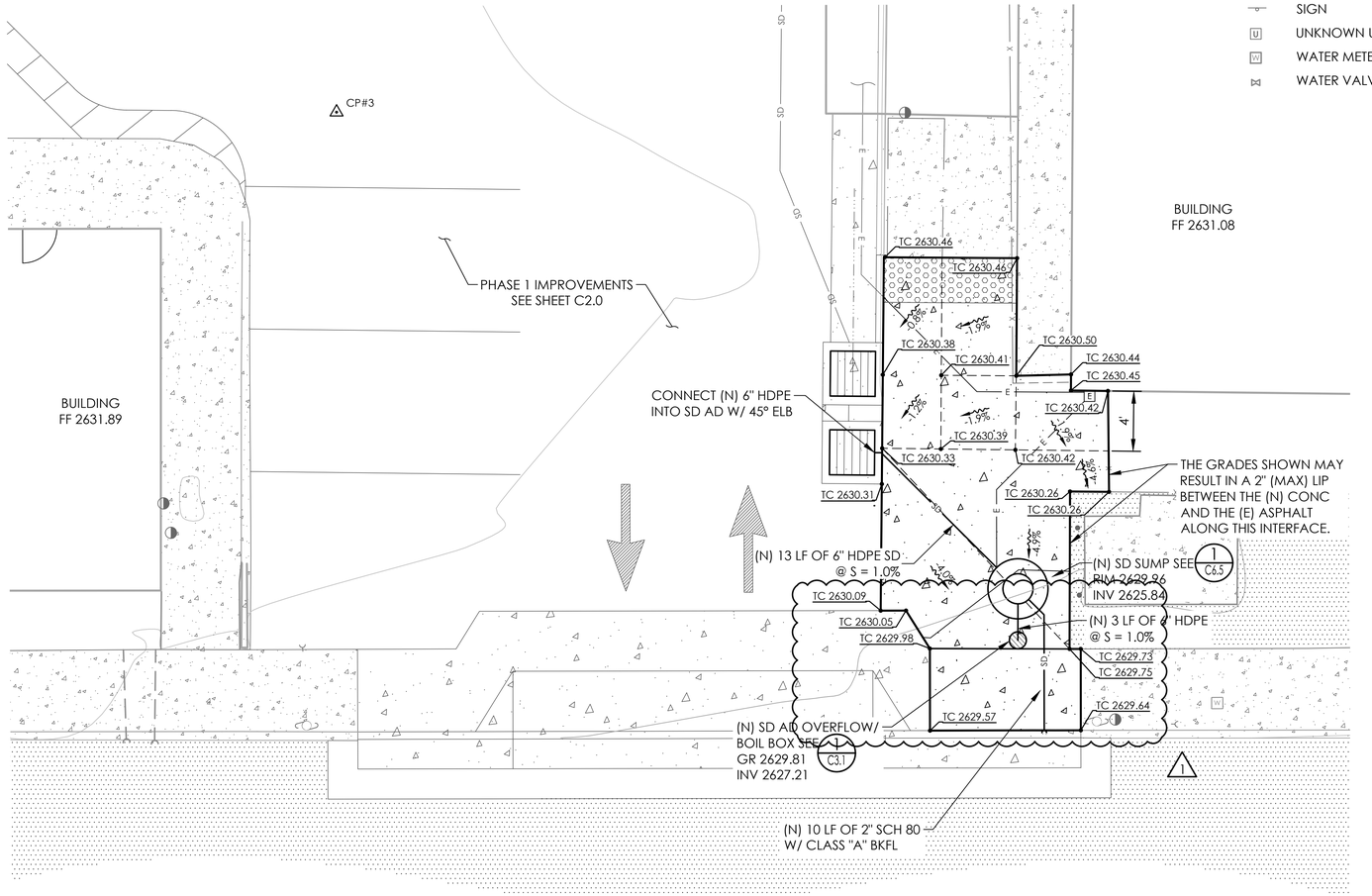
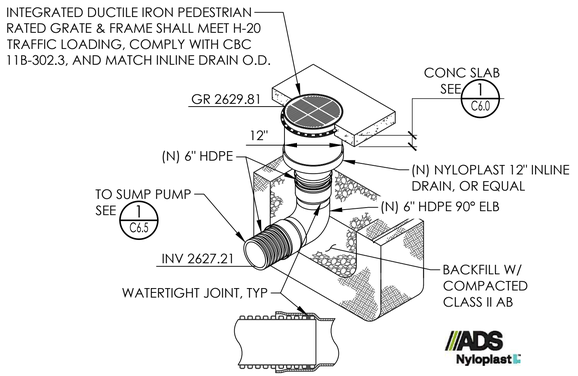
WV	WATER VALVE





NYLOPLAST INLINE DRAIN W/ PEDESTRIAN GRATE 1 C3.1
NTS

0 5 10
1 IN = 5 FT

PERMIT SET

BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
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REVISIONS

NO	DATE	DESCRIPTION
1	9-9-24	DRIVEWAY ENTERANCE IMPROVEMENTS

PACE ENGINEERING

DES RT	CKD TJ/SWg	JOB NO.
DRN RT	DATE 9/10/24	0470.22

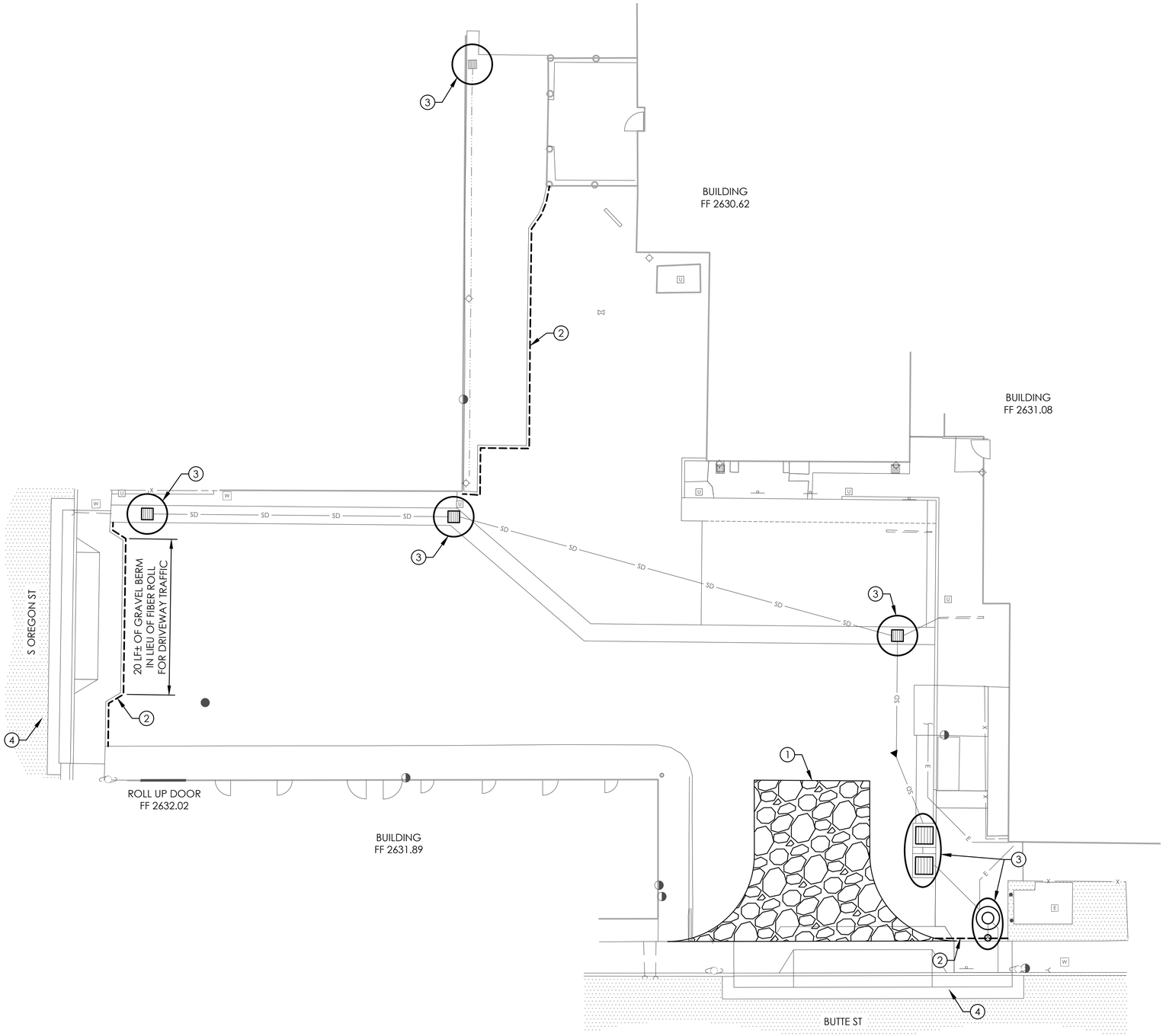
SIGNED 9/10/24
REGISTERED PROFESSIONAL ENGINEER
KYM A. TURNER
No. 94742
CIVIL
STATE OF CALIFORNIA

SISKIYOU COUNTY GOVERNMENT CENTER
PARKING LOT IMPROVEMENTS

PHASE 2 GRADING PLAN

SHEET
C3.1
PG 6 OF 17

Plot Date: September 10, 2024 - 9:04 am Login Name: rturner
File Name: M:\land projects\047022 government center ads parking\01 CAD\05 CD\Grading\Avg Layout Grading P2



SYMBOL LEGEND

- SEDIMENT BARRIER, SEE NOTE 2
- AREA DRAIN

NOTES:

1. THE CONTRACTOR SHALL USE THE LOCATION SHOWN FOR THEIR EXIT OF THE WORK SITE AND INSTALL A TEMPORARY CONSTRUCTION ENTRANCE, PER DETAIL 6 SHEET C6.2, UNLESS THE SITE IS SURFACED WITH PAVEMENT OR AGGREGATE BASE.
2. CONTRACTOR SHALL INSTALL A FIBER ROLL/GRAVEL BERM AND CREATE A 3" LIP BETWEEN THE EXITING CONCRETE EDGE AND UNFINISHED GRADE TO PREVENT SEDIMENT FROM LEAVING THE SITE, PER DETAIL 5 SHEET C6.2.
3. CONTRACTOR SHALL CONSTRUCT GRAVEL BAG AREA DRAIN/DROP INLET SEDIMENT BARRIER PER DETAIL 7 SHEET C6.2, SUBSTITUTING GRAVEL BAGS FOR STRAW BALES.
4. CONTRACTOR SHALL PERFORM SWEEP STREETS, AS NECESSARY, TO REMOVE ANY CONSTRUCTION DIRT THAT IS TRACKED ONTO THE PROJECT'S ADJACENT STREETS.
5. CONTRACTOR SHALL SUBMIT A REVISED EROSION SEDIMENT CONTROL PLAN TO THE ENGINEER PRIOR TO CONSTRUCTION.
6. ONCE CONSTRUCTION OF THE SITE IS COMPLETE BARRIERS AND DRAIN FILTER BAGS SHALL BE REMOVED.
7. CONTRACTOR SHALL INSTALL ALL EROSION CONTROL BMP'S PRIOR TO CONSTRUCTION. OWNER IS RESPONSIBLE FOR VERIFYING THAT BMP'S REMAIN IN PLACE AND ARE FUNCTIONAL DURING CONSTRUCTION.

0 10 20
1 IN = 10 FT

PERMIT SET

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0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

REVISIONS

NO	DATE	DESCRIPTION

PACE ENGINEERING

DES	RT	CKD	TJ/SWa	JOB NO.
DRN	RT	DATE	9/10/24	0470.22

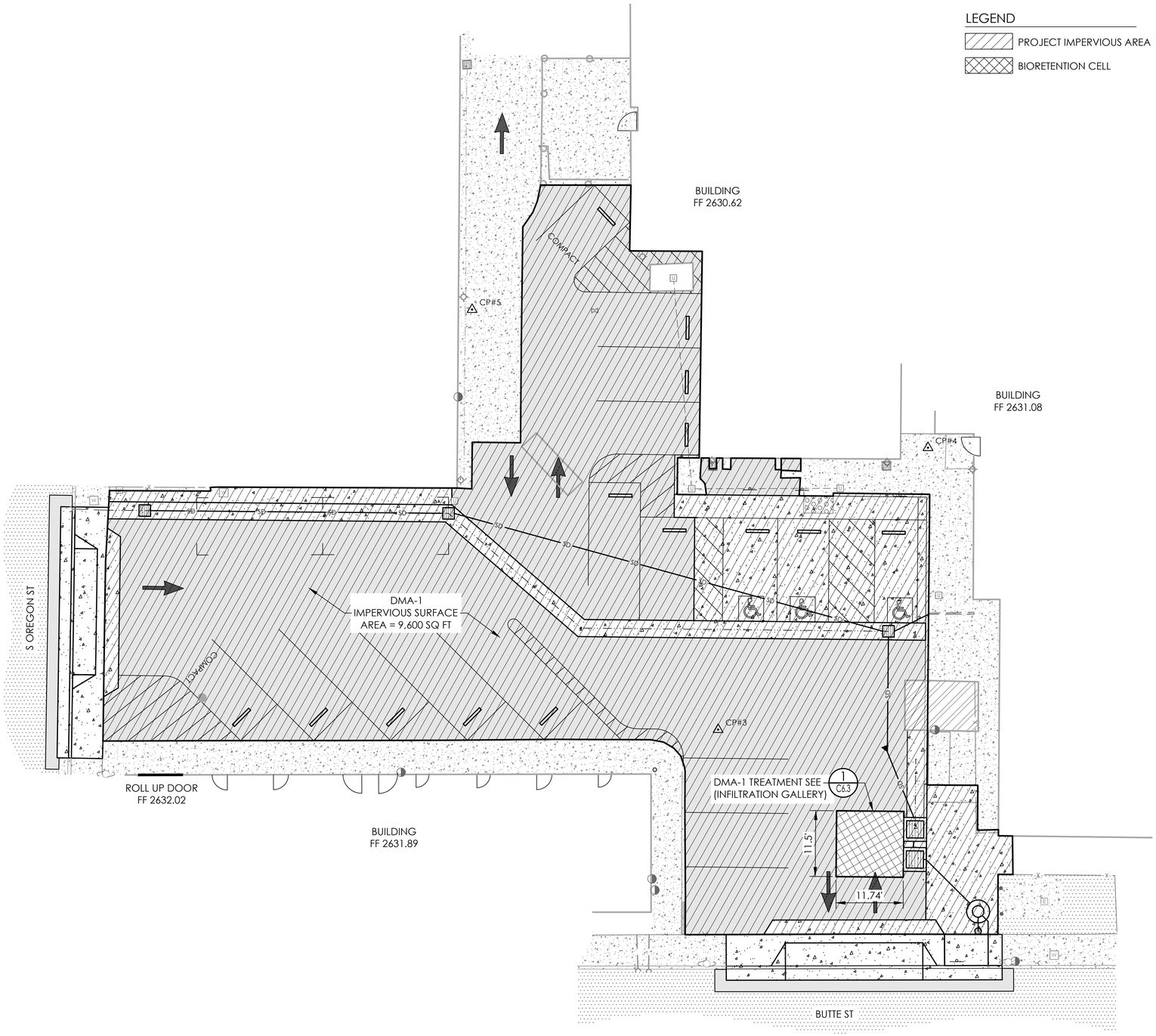
SIGNED 9/10/24
REGISTERED PROFESSIONAL ENGINEER RYAN A. TURNER No. 94742 CIVIL STATE OF CALIFORNIA

SISKIYOU COUNTY GOVERNMENT CENTER
PARKING LOT IMPROVEMENTS

EROSION SEDIMENT CONTROL PLAN

SHEET
C4.0
PG 7 OF 17

Plot Date: September 10, 2024 - 9:04 am Login Name: rturner
File Name: M:\land projects\0470.22 government center ada parking\01 CAD\05 CD\Erosion Control Plan.dwg, Layout: ESCP



LEGEND

- PROJECT IMPERVIOUS AREA
- BIORETENTION CELL

MS4 NOTES

1. FOR GRADING INFORMATION NOT SHOWN, SEE GRADING PLAN, SHEET C3.0.
2. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
3. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

INSPECTION AND MAINTENANCE NOTES

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT

- A. INSPECTION PORTS
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.1. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS

- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

POST CONSTRUCTION BMP DESIGN

1. APPLICABLE STANDARDS:
   HUMBOLDT COUNTY LOW IMPACT DEVELOPMENT STORMWATER MANUAL
2. PROJECT CLASSIFICATION: REGULATED PROJECT (OVER 5,000 SQ FT)
3. ANALYSIS TOOL:
   CALIFORNIA PHASE II LID SIZING TOOL
4. TREE CREDITS:
   EXISTING CANOPY: NO CREDITS TAKEN
   NEW: NO CREDITS INCLUDED
5. LID SIZING INPUT PARAMETERS:

   DMA-1:
   RAIN GAUGE: YREKA
   SATURATED HYDRAULIC CONDUCTIVITY: 1.0 IN/HR
   NEW IMPERVIOUS AREA: 9,600 SQ FT
   DESIGN METHOD: DESIGN STORM
6. RESULTS:

   DMA-1:
   BMP CHOSEN: INFILTRATION GALLERY. RUNOFF FROM IMPERVIOUS PARKING LOT FLOWS THROUGH THE INFILTRATION GALLERY.
   VEGETATED BASIN NEEDED: 113 SQ FT
   VEGETATED BASIN PROVIDED: 135 SQ FT
   PERCENT COMPLIANT LID BMP AREA: 119%

0 10 20
1 IN = 10 FT

PERMIT SET

BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

REVISIONS

NO	DATE	DESCRIPTION

PACE ENGINEERING

DES RT | CKD TJ/SWa | JOB NO. 0470.22
DRN RT | DATE 9/10/24

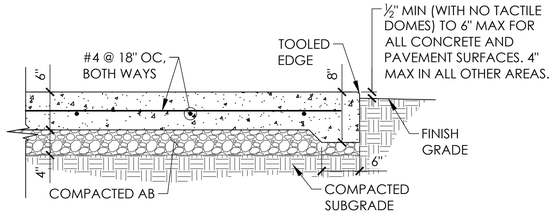
SIGNED 9/10/24
REGISTERED PROFESSIONAL ENGINEER
RYAN K. TURNER
No. 94742
CIVIL
STATE OF CALIFORNIA

SISKIYOU COUNTY GOVERNMENT CENTER
PARKING LOT IMPROVEMENTS

POST CONSTRUCTION STANDARDS PLAN

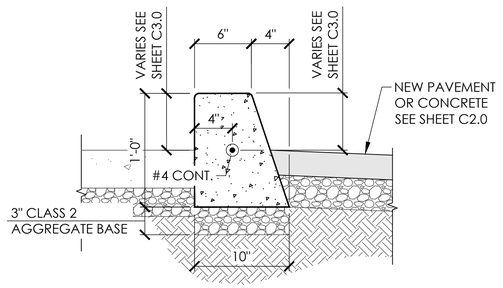
SHEET
C5.0
PG 8 OF 17

Plot Date: September 10, 2024 - 8:04 am Login Name: rturner
File Name: M:\land projects\0470\22 government center ada parking\01 CAD\05 CD\PCSP.dwg Layout: MS4



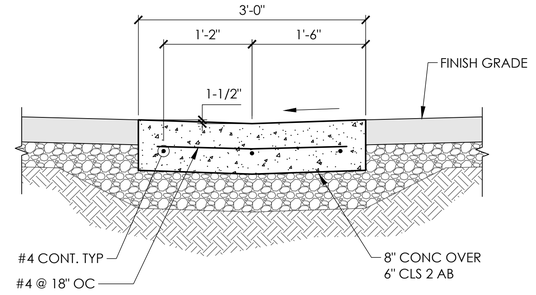
NOTES:
1. CONCRETE SHALL BE PER NOTE 2 ON SHEET C3.0.
2. PROVIDE A EXPANSION JOINTS AT 12' O.C. MAX PER DETAIL 5 ON SHEET C6.0.
3. APPLY A LIGHT BROOM FINISH IN THE DIRECTION OF FLOW.

CONCRETE SLAB DETAIL 1 C6.0
NTS



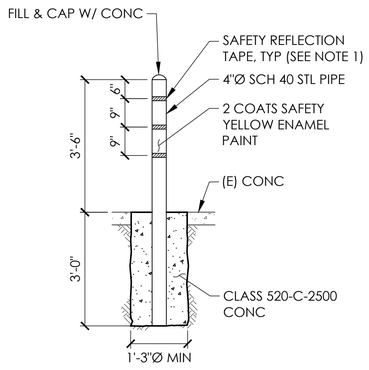
NOTES:
1. CONCRETE SHALL BE PER NOTE 2 ON SHEET C3.0.
2. PROVIDE A CONTROL JOINT AT 12 FT. O.C. MAX AND AN EXPANSION JOINT AT ALL BC/EC'S PER DETAIL 5 ON SHEET C6.0.
3. ALL EXPOSED SURFACES SHALL RECEIVE A LIGHT BROOM FINISH PARALLEL TO THE CURB.

CONC CURB DETAIL 2 C6.0
NTS



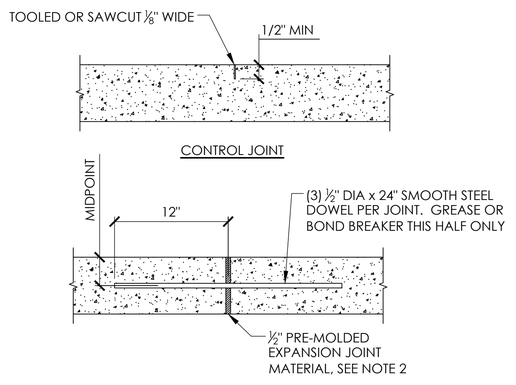
NOTES:
1. CONCRETE SHALL BE PER NOTE 2 ON SHEET C3.0.
2. PROVIDE A CONTROL JOINT AT 12 FT. O.C. MAX AND AN EXPANSION JOINT AT ALL ANGLE POINTS PER DETAIL 5 ON SHEET C6.0.
3. ALL EXPOSED SURFACES SHALL RECEIVE A LIGHT BROOM FINISH PARALLEL TO THE DIRECTION OF FLOW.

CONCRETE VALLEY GUTTER DETAIL 3 C6.0
NTS



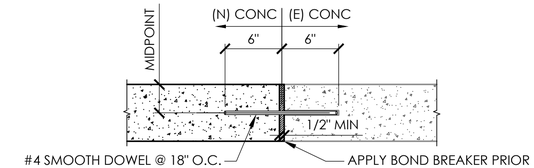
NOTES:
1. 3" WIDE BLUE REFLECTOR TAPE SHALL BE USED FOR FIRE PROTECTION DEVICES. 1" WIDE SAFETY REFLECTION TAPE SHALL BE USED AT ALL OTHER LOCATIONS. TAPE SHALL BE SUITABLE FOR ALL WEATHER, & CHEMICAL & ABRASION RESISTANT.

BOLLARD DETAIL 4 C6.0
NTS



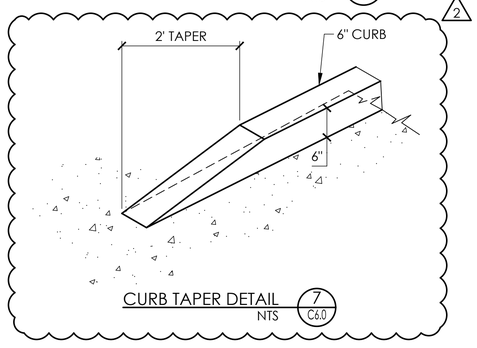
NOTES
1. 1/2 INCH PRE-MOLDED JOINT MATERIAL SHALL BE HELD FIRMLY IN PLACE PRIOR TO PLACING CONCRETE.
2. EXPANSION JOINTS SHALL BE INSTALLED AT THE BEGINNING AND END OF ALL CURB/WALK RETURNS.
3. FOR WALKWAYS, EXPANSION JOINTS SHALL BE INSTALLED AT INTERVALS NOT TO EXCEED 50' MAX OC.
3. CONTROL JOINTS SHALL BE AT 5' OC MAX IN SIDEWALKS, 12' OC MAX IN CURBS AND GUTTERS.

CONC JOINT DETAIL 5 C6.0
NTS

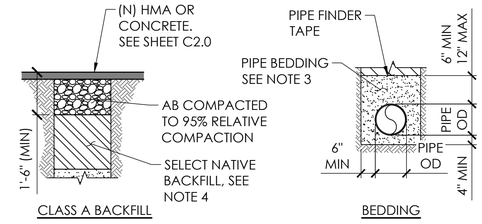


NOTES:
1. CONCRETE SHALL BE PER NOTE 2 ON SHEET C3.0.

(E) CONC TO (N) CONC DETAIL 6 C6.0
NTS



CURB TAPER DETAIL 7 C6.0
NTS



NOTES:
1. CLASS "A3" BKFL SHALL BE USED IN ALL PAVED OR CONCRETE AREAS.
2. FOR 2 PIPES IN COMMON TRENCH, MAINTAIN 12 IN CLEARANCE BETWEEN PIPES & 6 IN MIN BETWEEN PIPES & TRENCH WALL.
3. PIPE BEDDING SHALL ATSM C33 SAND FOR ALL UNDERGROUND UTILITIES COMPACTED TO 90% RELATIVE COMPACTION.
4. SELECT NATIVE BACKFILL SHALL CONSIST OF WELL GRADED 3-INCH MINUS NATIVE MATERIAL, FREE FROM ORGANIC MATERIAL, AND COMPACTED TO 90% RELATIVE COMPACTION. CLASS 2 AGGREGATE BASE MAY BE USED AS AN ALTERNATIVE IF DESIRED BY THE CONTRACTOR.

TRENCHING STANDARD DETAIL 8 C6.0
NTS

PERMIT SET

BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
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REVISIONS

NO	DATE	DESCRIPTION
2	9-18-24	PLAN CHECK REVISIONS

PACE ENGINEERING

DES RT | CKD TJ/SWa | JOB NO. 0470.22
DRN RT | DATE 9/18/24

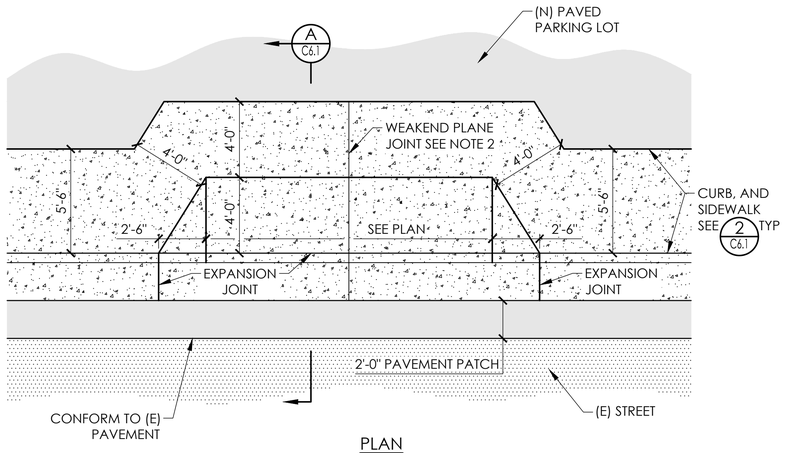
SIGNED 9/18/24
REGISTERED PROFESSIONAL ENGINEER RYAN K. TURNER No. 94742 CIVIL STATE OF CALIFORNIA

SISKIYOU COUNTY GOVERNMENT CENTER
PARKING LOT IMPROVEMENTS

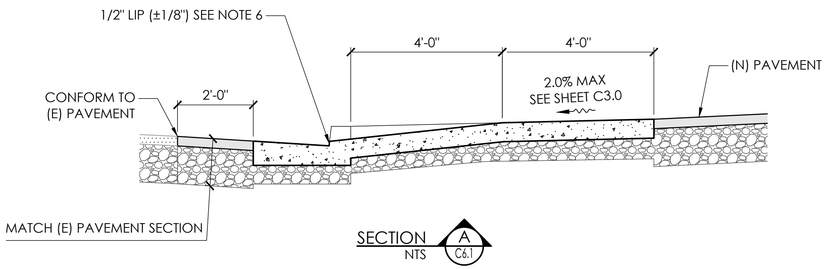
STANDARD DETAILS

SHEET
C6.0
PG 9 OF 17

Plot Date: September 18, 2024 - 2:02 pm Login Name: rturner
File Name: M:\land projects\047022 government center ada parking\01 CAD\05 CD\Details.dwg Layout: Conc Details



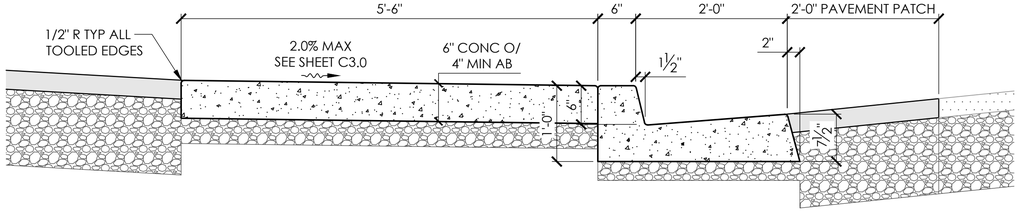
PLAN



SECTION A C6.1
NTS

NOTES:
1. ALL CONCRETE SHALL BE PER NOTE 2 ON SHEET C3.0.
2. WEAKENED PLANE JOINTS SHALL BE TO A DEPTH OF 2-INCHES AND AT INTERVALS NOT TO EXCEED 12 FT O.C.
3. CONTROL JOINTS SHALL BE EVENLY SPACED BETWEEN WEAKENED PLANE JOINTS AT 3 FT TO 5 FT INTERVALS.
4. WEAKENED PLANE JOINTS AND SCORE LINES SHALL CORRESPOND WITH THOSE IN THE ADJACENT SIDEWALK UNLESS OTHERWISE SPECIFIED.
5. THE AREA INCLUDED WITHIN THE SLOPE OF THE DRIVEWAY SHALL BE GIVEN A HEAVY BROOM FINISH.
6. TOP OF LIP TO BE TROWELED STRAIGHT AND TRUE.

DRIVEWAY DETAIL 1 C6.1
NTS



NOTES:
1. ALL CONCRETE SHALL BE PER NOTE 2 ON SHEET C3.0.
2. BROOMING IN CURBS SHALL BE PARALLEL TO THE DIRECTION OF FLOW. BROOMING IN SIDEWALKS SHALL BE PERPENDICULAR TO THE CURB.
3. CONCRETE JOINTS SHALL BE PER THE FOLLOWING:
   3.a. CURB:
   CONTROL JOINTS SHALL BE TO A DEPTH OF 2-INCHES AND AT INTERVALS NOT TO EXCEED 12 FT. O.C. THE TOP 3/4-INCH OF THE CONTROL JOINT SHALL BE FILLED WITH POLYURETHANE SEALANT (SIKAFLEX-1A OR EQUAL).
   3.b. SIDEWALKS:
   PROVIDE EXPANSION JOINTS AT INTERVALS NOT TO EXCEED 12 FT O.C.
   CONTROL JOINTS SHALL BE EVENLY SPACED BETWEEN EXPANSION AT 3 FT TO 5 FT INTERVALS.
4. SIDEWALKS MUST MAINTAIN A MINIMUM OF 4-FEET CLEAR WIDTH AT ALL TIMES.
5. SIDEWALK GRADES SHALL NOT EXCEED 5-PERCENT EXCEPT TO MATCH THE GRADE OF THE ADJACENT STREET OR ROADWAY.

CONC CURB GUTTER AND SIDEWALK DETAIL 2 C6.1
NTS

PERMIT SET

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DRN	RT	DATE	9/10/24	0470.22

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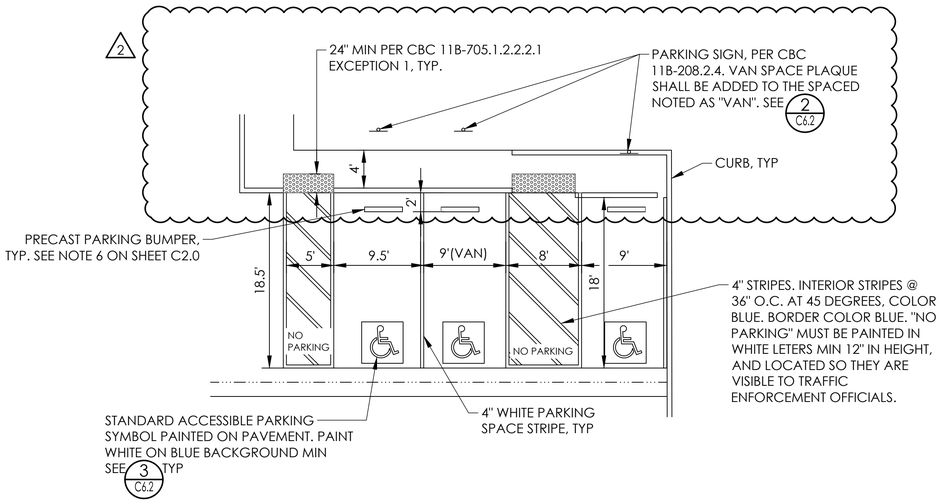
SISKIYOU COUNTY GOVERNMENT CENTER
PARKING LOT IMPROVEMENTS

STANDARD DETAILS

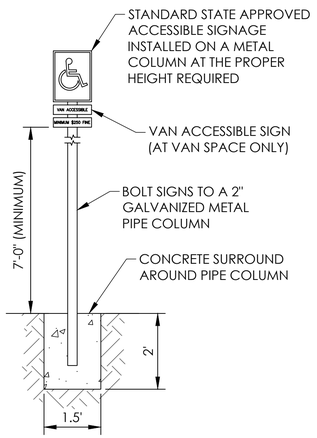
SHEET
C6.1
PG 10 OF 17

Plot Date: September 10, 2024 - 9:04 am Login Name: rturner
File Name: M:\land projects\0470.22 government center ada parking\01 CAD\05 CD\Details.dwg Layout: DW Details

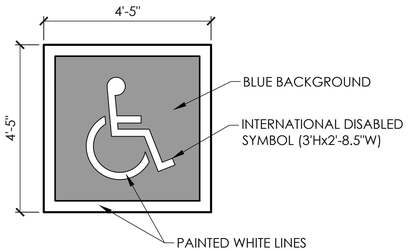


NOTES:
1. 2% MAXIMUM SLOPE AT ACCESSIBLE PARKING SPACES AND ACCESS AISLES IN ANY DIRECTION.
2. ALL ACCESSIBLE RAMPS AND ACCESS AISLES SHALL MEET ALL CODES AND ADAAG REGULATIONS.

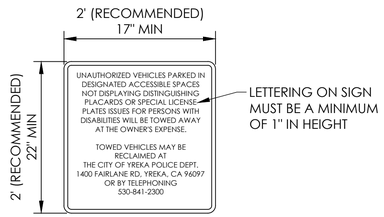
ACCESSIBLE PARKING DETAIL 1 C6.2
NTS



ACCESSIBLE PARKING DETAIL 2 C6.2
NTS

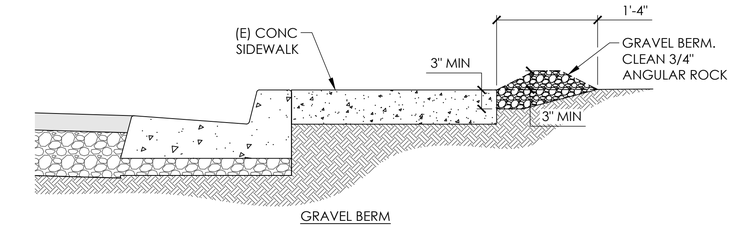


ACCESSIBLE PARKING DETAIL 3 C6.2
NTS

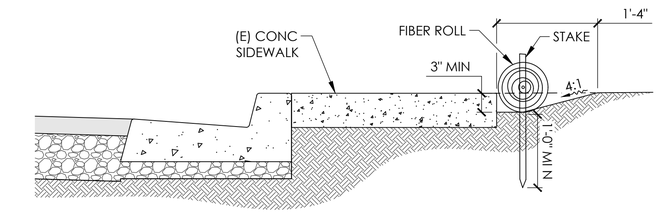


NOTES:
1. REFER TO CALTRANS STD PLAN A90 & CBC 11B-502.8.

ACCESSIBLE PARKING DETAIL 4 C6.2
NTS



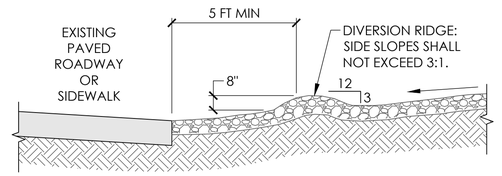
GRAVEL BERM



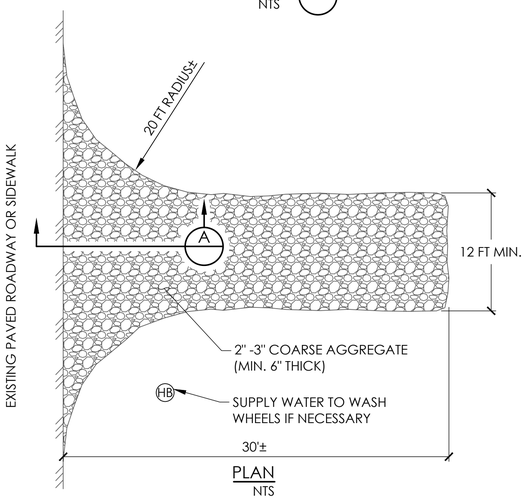
FIBER ROLL

NOTES:
1. CONTRACTOR SHALL USE THE FIBER ROLL UNLESS NOTED OTHERWISE ON SHEET C4.0.
2. FIBER ROLLS SHALL BE A PREMANUFACTURED ROLL FILLED WITH SEEDLESS STRAW, OR APPROVED EQUAL, AND BE COVERED WITH A BIODEGRADABLE NETTING.

PERIMITER SEDIMENT BARRIER 5 C6.2
NTS

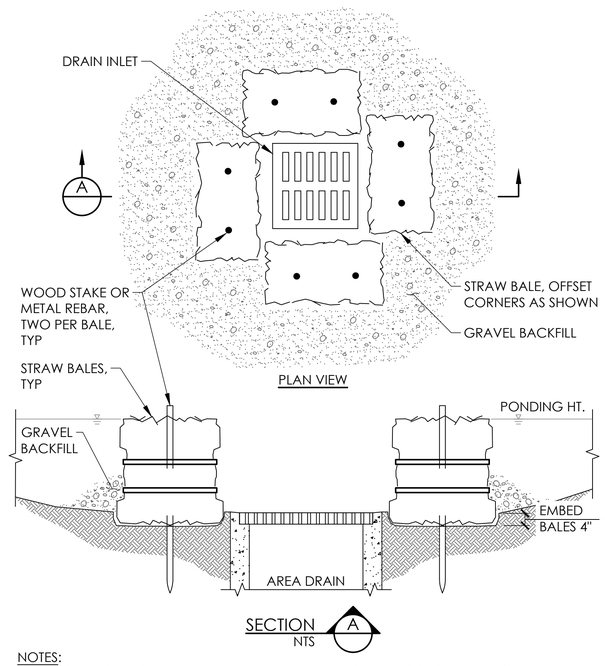


SECTION A
NTS



PLAN
NTS

TEMPORARY GRAVEL CONSTRUCTION EXIT 6 C6.2
NTS



PLAN VIEW

SECTION A
NTS

NOTES:
1. TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS (LESS THAN 5%) AND AREA IMMEDIATELY ADJACENT TO INLET SHOULD BE RELATIVELY FLAT (LESS THAN 1%)

STRAW BALE / GRAVEL DROP INLET SEDIMENT BARRIER 7 C6.2
NTS

PERMIT SET

BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
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REVISIONS

NO	DATE	DESCRIPTION
2	9-18-24	PLAN CHECK REVISIONS

PACE ENGINEERING

DES	RT	CKD	TJ/SWa	JOB NO.
DRN	RT	DATE	9/18/24	0470.22

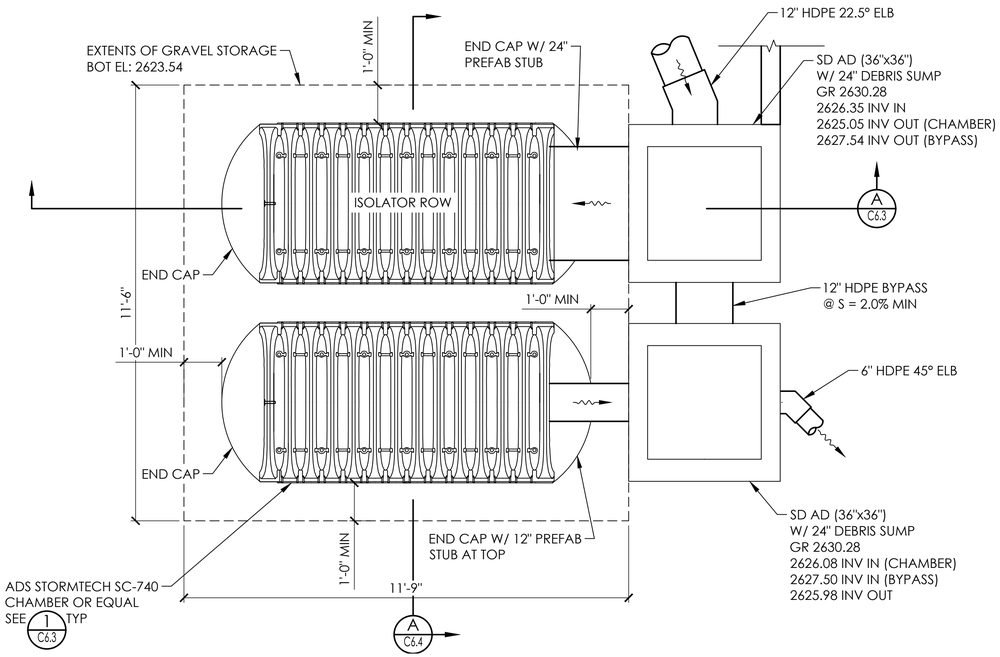
SIGNED 9/18/24
REGISTERED PROFESSIONAL ENGINEER RYAN K. TURNER No. 94742 CIVIL STATE OF CALIFORNIA

SISKIYOU COUNTY GOVERNMENT CENTER
PARKING LOT IMPROVEMENTS

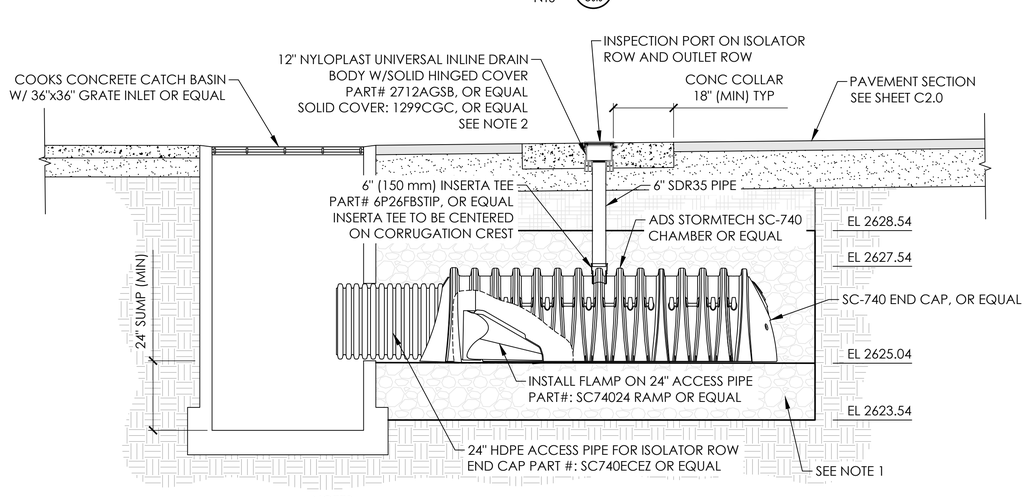
ADA AND EROSION CONTROL DETAILS

SHEET
C6.2
PG 11 OF 17

Plot Date: September 18, 2024 - 2:03 pm Login Name: rturner
File Name: M:\land projects\0470.22 government center ada parking\01 CAD\05 CD\Details.dwg Layout: Erosion-ADA Details

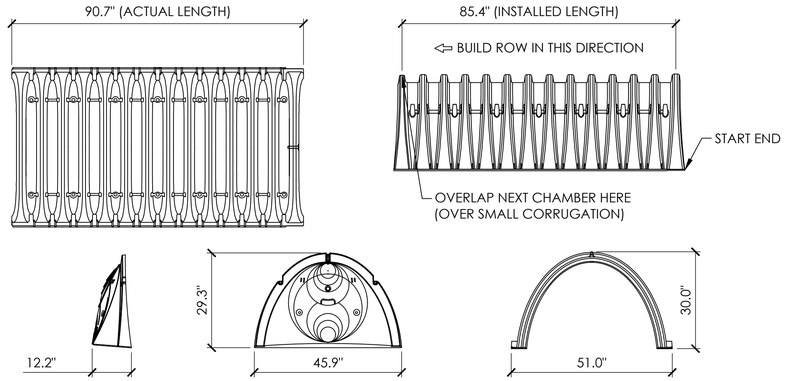


INFILTRATION GALLERY DETAIL 1 C6.3
NTS



NOTES:
1. REFER TO SHEET C6.4 FOR BACKFILL REQUIREMENTS AND SPECIFICATIONS
2. PART# 2712AG6IPKIT CAN BE USED TO ORDER ALL NECESSARY COMPONENTS FOR A SOLID LID INSPECTION PORT INSTALLATION

SECTION A C6.3
NTS



NOMINAL CHAMBER SPECIFICATIONS:

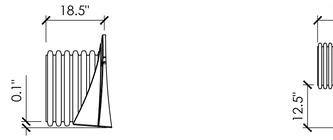
SIZE (W X H X INSTALLED LENGTH)	51.0" X 30.0" X 85.4"	(1295 mm X 762 mm X 2169 mm)
CHAMBER STORAGE	45.9 CUBIC FEET	(1.30 m³)
MINIMUM INSTALLED STORAGE*	74.9 CUBIC FEET	(2.12 m³)
WEIGHT	75.0 lbs.	(33.6 kg)

NOMINAL END CAP SPECIFICATIONS:

SIZE (W X H X INSTALLED LENGTH)	45.9" X 29.3" X 9.6"	(1166 mm X 744 mm X 244 mm)
END CAP STORAGE	2.6 CUBIC FEET	(0.07 m³)
MINIMUM INSTALLED STORAGE**	13.5 CUBIC FEET	(0.38 m³)
WEIGHT	11.7 lbs.	(5.3 kg)

* ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS
**ASSUMES 6" (152 mm) STONE ABOVE AND BELOW END CAPS, 6" (152 mm) BETWEEN ROWS, 12" (305 mm) BEYOND END CAPS

STORMTECH SC-740 CHAMBER DETAIL AND SPECIFICATION 2 C6.3
NTS



INLET END CAP
PART# SC740ECEZ

OUTLET END CAP
PART# SC740EPE12TPC

NOTES:
1. ALL STUBS, EXCEPT FOR THE SC740ECEZ ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.
2. FOR THE SC740ECEZ THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.
3. ALL DIMENSIONS ARE NOMINAL

STORMTECH END CAP DETAILS 2 C6.3
NTS

ADS StormTech®

PERMIT SET

BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

REVISIONS		
NO	DATE	DESCRIPTION

PACE® ENGINEERING

DES RT	CKD TJ/SWg	JOB NO. 0470.22
DRN RT	DATE 9/10/24	

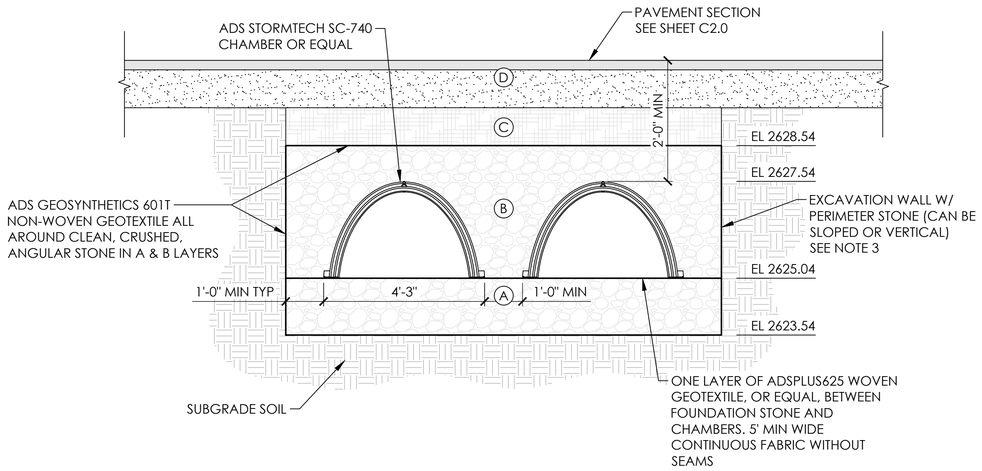
SIGNED 9/10/24
REGISTERED PROFESSIONAL ENGINEER
RYAN A. TURNER
No. 94742
CIVIL
STATE OF CALIFORNIA

SISKIYOU COUNTY GOVERNMENT CENTER
PARKING LOT IMPROVEMENTS

INFILTRATION GALLERY DETAILS

SHEET
C6.3
PG 12 OF 17

Plot Date: September 10, 2024 - 9:05 am Login Name: rturner
File Name: M:\land projects\0470\22 government center ada parking\01 CAD\05 CIVIL\PCSP.dwg Layout: Gallery Plan



NOTES

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
4. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL SURFACING:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE FINISH SURFACE.	AS SPECIFIED ON SHEET C2.0.	N/A	AS SPECIFIED ON SHEETS C2.0 AND C3.0.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO PAVEMENT SUBBASE ("D"LAYER).	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. CLASS 2 AGGREGATE BASE IS ALSO ACCEPTABLE	AASHTO M145[1] A-1, A-2-4, A-3 AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs. DYNAMIC FORCE NOT TO EXCEED 20,000 lbs.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, AND ANGULAR.
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. LAYER "D" SHALL BE THE PAVEMENT SECTION PER SHEET C2.0.

SECTION A NTS — C6.4

ADS StormTech®

PERMIT SET

BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

REVISIONS

NO	DATE	DESCRIPTION

PACE ENGINEERING

DES RT | CKD TJ/SWa | JOB NO. 0470.22
DRN RT | DATE 9/10/24

SIGNED 9/10/24
REGISTERED PROFESSIONAL ENGINEER — RYAN A. TURNER — No. 94742 — CIVIL — STATE OF CALIFORNIA

SISKIYOU COUNTY GOVERNMENT CENTER
PARKING LOT IMPROVEMENTS

INFILLTRATION GALLERY DETAILS

SHEET C6.4
PG 13 OF 17

Plot Date: September 10, 2024 - 9:05 am Login Name: rturner
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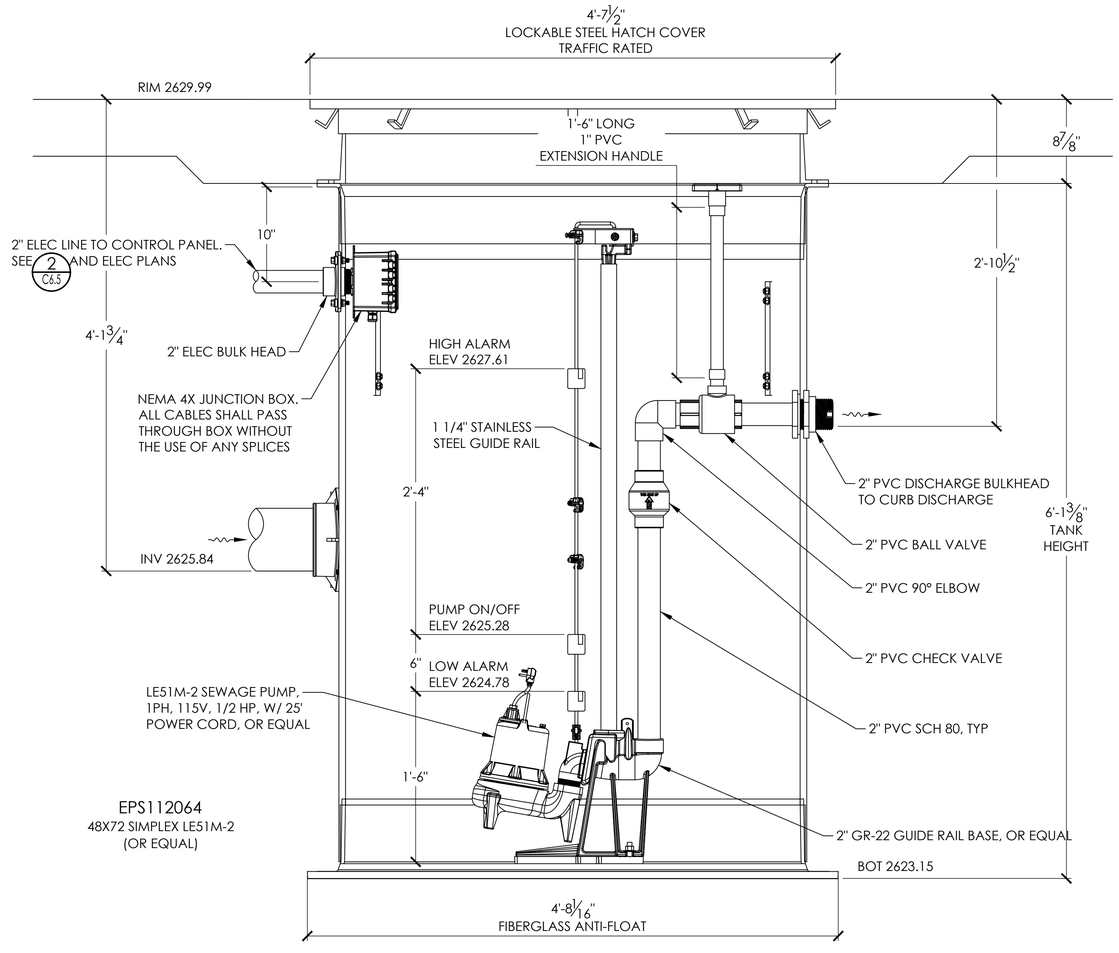
RUNOFF CALCULATION INPUT PARAMETERS		
PARAMETER	PRE-CONSTRUCTION	POST-CONSTRUCTION
IMPERVIOUS AREA	0.22ac (9,600sf)	0.22ac (9,600sf)
IMPERVIOUS CURVE NUMBER	98	98
PERVIOUS AREA	0	0
PERVIOUS CURVE NUMBER	N/A	N/A
TOTAL AREA	0.22ac (9,600sf)	0.22ac (9,600sf)
COMBINED CURVE NUMBER	98	98
FLOW LENGTH	150	150
FLOW SLOPE	1.0%	1.0%
TIME OF CONCENTRATION	3.33	3.33
STORM TYPE	IA	IA

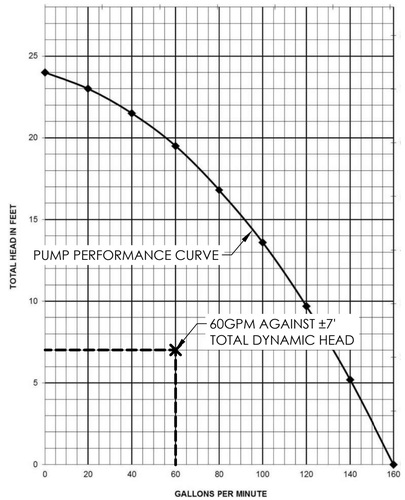
CALCULATED PEAK FLOWS			
PARAMETER	2-YEAR	10-YEAR	100-YEAR
PRE-CONSTRUCTION	0.10cfs (45gpm)	0.16cfs (72gpm)	0.23cfs (104gpm)
POST-CONSTRUCTION	0.10cfs (45gpm)	0.16cfs (72gpm)	0.23cfs (104gpm)

NOTES

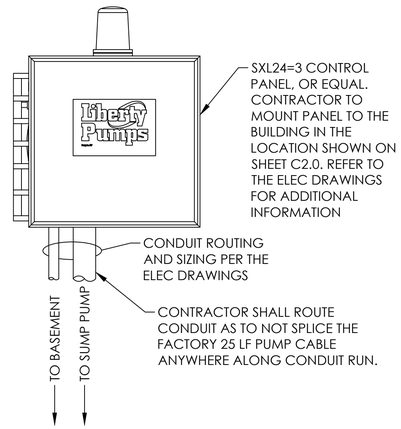
1. THIS DRAINAGE ANALYSIS WAS PERFORMED USING THE SOIL CONSERVATION SERVICE (SCS) METHOD IN AUTODESK HYDRAFLOW SOFTWARE. THE INPUT PARAMETERS FOR THE PRE-CONSTRUCTION AND POST-CONSTRUCTION BASIN CAN BE FOUND IN THE TABLE. NO ADDITIONAL RUNOFF WILL BE CREATED BY THE PROPOSED IMPROVEMENTS.
2. TIME OF CONCENTRATION WAS DETERMINED BASED ON THE LAG METHOD WHERE TC=1.67(LAG TIME).
3. THE CALCULATIONS ON SHEET C5.0 IS CALCULATED TO INFILTRATE THE 2-YEAR TO 10-YEAR RAIN EVENT. THE SUMP PUMP IS DESIGNED TO PUMP THE DIFFERENCE BETWEEN THE 2-YEAR AND THE 100-YEAR RAIN EVENT. (60gpm±)



SUMP PUMP DETAIL 1 C6.5
NTS



LE51M PUMP CURVE TABLE



SUMP PUMP DETAIL 2 C6.5
NTS

SUMP PUMP DETAIL 3 C6.5
NTS

PERMIT SET

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0" 1"
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SUMP PUMP DETAILS

SHEET
C6.5
PG 14 OF 17

Liberty Pumps

Plot Date: September 10, 2024 - 9:05 am Login Name: rturner
File Name: M:\land projects\0470.22 government center ada parking\01 CAD\05 CD\Details.dwg, Layout: Sump Details

ELECTRICAL SPECIFICATIONS

PART 1 – GENERAL

1.1 INTENT OF PLANS
- A. ELECTRICAL PLAN DRAWINGS SHOW ONLY GENERAL LOCATIONS OF EQUIPMENT, DEVICES, AND RACEWAY UNLESS SPECIFICALLY DIMENSIONED. THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER ROUTING OF RACEWAY, SUBJECT TO THE APPROVAL OF THE ENGINEER. MAKE ADJUSTMENTS AS NECESSARY TO WIRING, CONDUIT, DISCONNECTS, BRANCH CIRCUIT PROTECTION, AND OTHER AFFECTED MATERIAL OR EQUIPMENT TO ACCOMMODATE ACTUAL EQUIPMENT SUPPLIED FOR THIS PROJECT.

1.2 CODES, PERMITS, AND REGULATIONS
- A. DO ALL WORK AND INSTALL PRODUCTS IN ACCORDANCE WITH APPLICABLE NECA REQUIREMENTS, THE REQUIREMENTS OF APPLICABLE STATE AND LOCAL LAWS, CODES AND ORDINANCES. THE CONTRACTOR SHALL ADHERE TO THE SPECIFIC PRODUCT AND INSTALLATION REQUIREMENTS OF THE UTILITY COMPANIES. CONFLICTS, IF ANY, WILL BE RESOLVED AT THE DISCRETION OF THE ENGINEER.
- B. IT IS OF THE UTMOST IMPORTANCE THAT THE INSTALLING CONTRACTOR HAVE A MASTERY OF THE PROJECT-SPECIFIC REQUIREMENTS SHOWN IN SPECIFICATIONS AND PLANS. IT IS STRONGLY ADVISED THAT THE CONTRACTOR CONTACT THE EEOR FOR CLARIFICATION OR RFI THE EEOR IF FURTHER INFORMATION IS REQUIRED. THE EEOR SHALL REQUIRE REVISIONS TO BE MADE IN THE FIELD IF THE INSTALLATION DOES NOT FALL WITHIN THESE PROJECT-SPECIFIC GUIDELINES. NO ALLOWANCE SHALL BE MADE FOR INSTALLATIONS NOT ADHERING TO THESE REQUIREMENTS.

1.3 SUBMITTALS
- A. GENERAL:
  1. BEFORE ANY MATERIAL IS FABRICATED OR SHIPPED, FURNISH TO THE ENGINEER FULL DETAILS, SHOP DRAWINGS, DIMENSIONS, CATALOG CUTS, SCHEMATIC (ELEMENTARY) DIAGRAMS, AND OTHER DESCRIPTIVE MATTER AS REQUIRED TO FULLY DESCRIBE THE EQUIPMENT SPECIFIED.

1.4 TESTING RELATED SUBMITTALS
- A. TEST PROCEDURES: SUBMIT THE PROCEDURES TO BE FOLLOWED DURING THE OPERATIONAL READINESS TEST. PROCEDURES SHALL INCLUDE TEST DESCRIPTIONS, FORMS, AND CHECKLISTS TO BE USED TO CONTROL AND DOCUMENT THE REQUIRED TESTS. UPON COMPLETION OF EACH REQUIRED TEST, DOCUMENT THE TEST BY SUBMITTING A COPY OF THE SIGNED OFF TEST PROCEDURES.

PART 2 – PRODUCTS

2.1 NOTE
- A. UNLESS OTHERWISE INDICATED, PROVIDE ALL FIRST-QUALITY NEW MATERIALS, FREE FROM ANY DEFECTS, AND SUITABLE FOR THE INTENDED USE AND THE SPACE PROVIDED. PROVIDE MATERIALS APPROVED BY UL WHEREVER STANDARDS HAVE BEEN ESTABLISHED BY THAT ORGANIZATION. FURNISH AND INSTALL ALL INCIDENTAL ITEMS NOT SPECIFICALLY SHOWN OR SPECIFIED WHICH ARE REQUIRED TO PROVIDE THE COMPLETE SYSTEMS SPECIFIED HEREIN. WHERE TWO OR MORE UNITS OF THE SAME CLASS OF MATERIAL OR EQUIPMENT ARE REQUIRED, PROVIDE PRODUCTS OF A SINGLE MANUFACTURER. COMPONENT PARTS OF MATERIALS OR EQUIPMENT NEED NOT BE PRODUCTS OF THE SAME MANUFACTURER.

2.2 EQUIPMENT FINISH
- A. UNLESS OTHERWISE INDICATED, FINISH FOR ELECTRICAL EQUIPMENT AND ENCLOSURES SHALL BE MANUFACTURER'S STANDARD GRAY OR ANSI 61 GRAY OVER A PRIMER AND RUST INHIBITOR.

2.3 CONDUIT AND CONDUIT FITTINGS:
- A. GALVANIZED RIGID STEEL CONDUIT (GRS):
  1. CONDUIT:
     - a. MEET REQUIREMENTS OF ANSI C80.1 AND UL 6.
     - b. MATERIAL: HOT-DIP GALVANIZED, WITH CHROMATED PROTECTIVE LAYER.
  2. FITTINGS:
     - a. MEET REQUIREMENTS OF UL 514B.
     - b. TYPE: THREADED, GALVANIZED. SETSCREW FITTINGS NOT PERMITTED.
     - c. MATERIAL: MALLEABLE IRON WITH INSULATED THROAT.
- B. ELECTRIC METALLIC TUBING (EMT):
  1. CONDUIT:
     - a. MEET REQUIREMENTS OF ANSI C80.3 AND UL 797.
     - b. MATERIAL: HOT-DIP GALVANIZED, WITH CHROMATED AND LACQUERED PROTECTIVE LAYER.
  2. FITTINGS:
     - a. MEET REQUIREMENTS OF UL 514B.
     - b. TYPE: STEEL BODY AND LOCK NUTS WITH STEEL OR MALLEABLE IRON COMPRESSION NUTS.
- C. PVC SCHEDULE 40 CONDUIT:
  1. CONDUIT:
     - a. MEET REQUIREMENTS OF NEMA TC2 AND UL 651.
     - b. UL LISTED FOR CONCRETE ENCASEMENT, UNDERGROUND DIRECT BURIAL, CONCEALED OR DIRECT SUNLIGHT EXPOSURE, AND 90°C INSULATED CONDUCTORS.
  2. FITTINGS
     - a. MEET REQUIREMENTS OF NEMA TC-3 AND UL 514B.
     - b. TYPE: PVC, SLIP-ON.
- D. RACEWAY WARNING TAPE:
  1. HEAVY-GAUGE, YELLOW PLASTIC TAPE OF 6-INCH MINIMUM WIDTH FOR USE IN TRENCHES CONTAINING ELECTRIC CIRCUITS.
  2. UTILIZE TAPE MADE OF MATERIAL RESISTANT TO CORROSIVE SOIL.
  3. PRINTED WARNING THAT AN ELECTRIC CIRCUIT IS LOCATED BELOW THE TAPE.

2.4 CONDUCTORS
- A. ELECTRICAL TERMINALS AND TERMINATIONS: IT IS ASSUMED THAT ALL TERMINATIONS IN THE FIELD SHALL HAVE MINIMUM RATED 75°C RATED TERMINALS. THE CONTRACTOR SHALL FIELD VERIFY ALL TERMINALS FOR CONNECTION IN COMPLIANCE WITH CEC 110.14. THE CONTRACTOR SHALL INFORM THE ENGINEER OF RECORD OF ANY TERMINALS DEVIATING FROM A RATING OF 75°C.
  1. ALL CONDUCTORS ARE RATED FOR 75°C ON PLANS UNLESS OTHERWISE NOTED.
- B. ALL CONDUCTORS SHOWN SHALL BE NEW UNLESS OTHERWISE INDICATED.
- C. CONDUCTOR TYPE:
  1. ALL CIRCUITS: STRANDED.
  2. INSULATION: TYPE THHN/THWN, 90°C DRY OR 75°C WET.
- D. COPPER BUILDING WIRE:
  1. DESCRIPTION: FLEXIBLE, INSULATED AND UNINSULATED, DRAWN COPPER CURRENT-CARRYING CONDUCTOR WITH AN OVERALL INSULATION LAYER OR JACKET, OR BOTH, RATED 600 VAC OR LESS.
     - a. INSULATION:
       - TYPE THHN AND TYPE THWN-2: COMPLY WITH UL 83.

2.5 CONDUCTOR ACCESSORIES
- A. TAPE:
  1. GENERAL PURPOSE, FLAME RETARDANT: 7-MIL, VINYL PLASTIC, RATED FOR 90°C MINIMUM MEETING REQUIREMENTS OF UL 510.
  2. FLAME RETARDANT, COLD AND WEATHER RESISTANT: 8.5 MIL, VINYL PLASTIC.
- B. CABLE TIES:
  1. NYLON, ADJUSTABLE, AND SELF-LOCKING.
  2. COMPLY WITH UL 20 AND FS W-S-896.

PART 3 – EXECUTION

3.1 NOTE:
- A. COORDINATE ELECTRICAL WORK WITH THE OWNER AND THE WORK OF OTHER TRADES TO AVOID CONFLICTS, ERRORS, DELAYS, AND UNNECESSARY INTERFERENCE DURING CONSTRUCTION.

3.2 PROTECTION DURING CONSTRUCTION
- A. FOLLOWING INSTALLATION, PROTECT MATERIALS, EQUIPMENT, AND INSULATION FROM CORROSION, PHYSICAL DAMAGE, AND MOISTURE. CAP CONDUIT RUNS DURING CONSTRUCTION WITH MANUFACTURED SEALS. KEEP OPENINGS IN BOXES OR EQUIPMENT CLOSED DURING CONSTRUCTION.

3.3 MATERIAL AND EQUIPMENT INSTALLATION
- A. FOLLOW THE MANUFACTURER'S INSTALLATION RECOMMENDATIONS UNLESS OTHERWISE INDICATED. FOLLOW THE ENGINEER'S DECISION, WHEREVER ANY CONFLICT ARISES. KEEP COPY OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AVAILABLE ON THE JOBSITE FOR REVIEW AT ALL TIMES.

3.4 CUTTING AND PATCHING
- A. DO NOT CUT OR NOTCH ANY STRUCTURAL MEMBER OR BUILDING SURFACE WITHOUT SPECIFIC APPROVAL OF THE ENGINEER. FOLLOWING SUCH WORK, RESTORE SURFACES NEATLY TO NEW CONDITION USING SKILLED CRAFTSMEN OF THE TRADES INVOLVED.

3.5 CLEANING AND TOUCH-UP PAINTING
- A. KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL OR RUBBISH. UPON COMPLETION OF WORK, REMOVE MATERIALS, SCRAPS, AND DEBRIS FROM THE PREMISES AND FROM THE INTERIOR AND EXTERIOR OF ALL DEVICES AND EQUIPMENT. REFINISH DAMAGED SURFACES TO NEW CONDITION USING SKILLED CRAFTSMEN OF THE TRADES INVOLVED.

3.6 RACEWAY SYSTEM
- A. UNLESS OTHERWISE SPECIFIED OR INDICATED, WIRING SHALL CONSIST OF INSULATED CONDUCTORS INSTALLED IN RACEWAYS OF THE TYPES INDICATED:
- B. EXTERIOR, EXPOSED: GALVANIZED RIGID STEEL.
- C. INTERIOR, EXPOSED: ELECTRIC METALLIC TUBING
- D. DIRECT EARTH BURIAL: PVC SCHEDULE 40.
- E. UNDER SLABS-ON-GRADE: PVC SCHEDULE 40.
- F. ALL CONDUIT PENETRATIONS THROUGH CONCRETE FLOOR SLABS SHALL BE GALVANIZED RIGID ENTIRE DEPTH OF FLOOR SLAB.
- G. INSTALL PULL BOXES WHERE SHOWN AND WHERE NECESSARY TO TERMINATE TAP-OFF, OR REDIRECT MULTIPLE CONDUIT RUNS. INSTALL PULL BOXES WHERE NECESSARY IN RACEWAY SYSTEM TO FACILITATE CONDUCTOR INSTALLATION. INSTALL PULL BOXES IN CONDUIT RUNS AT LEAST EVERY 150 FEET OR AFTER THE EQUIVALENT OF THREE RIGHT-ANGLE BENDS. USE OUTLET BOXES AS JUNCTION AND PULL BOXES WHEREVER POSSIBLE AND ALLOWED BY APPLICABLE CODES.
- H. SUPPORT BOXES INDEPENDENTLY OF CONDUIT BY ATTACHMENT TO BUILDING STRUCTURE OR STRUCTURAL MEMBER. INSTALL BAR HANGERS IN FRAME CONSTRUCTION, OR FASTEN BOXES DIRECTLY WITH WOOD SCREWS ON WOOD, BOLTS AND EXPANSION SHIELDS ON CONCRETE OR BRICK, TOGGLE BOLTS ON HOLLOW MASONRY UNITS, AND MACHINE SCREWS OR WELDED THREADED STUDS ON STEELWORK.

3.7 RACEWAY INSTALLATION
- A. CONDUIT AND TUBING SIZES SHOWN ARE BASED ON THE USE OF COPPER CONDUCTORS.
- B. MAINTAIN RACEWAY ENTIRELY FREE OF OBSTRUCTIONS AND MOISTURE.
- C. GROUP RACEWAYS INSTALLED IN SAME AREA.
- D. FOLLOW STRUCTURAL SURFACE CONTOURS WHEN INSTALLING EXPOSED RACEWAYS. AVOID OBSTRUCTION OF PASSAGEWAYS. RUN EXPOSED RACEWAYS PARALLEL OR PERPENDICULAR TO WALLS, STRUCTURAL MEMBERS, OR INTERSECTIONS OF VERTICAL PLANES.
- E. INSTALL WATERTIGHT FITTINGS IN OUTDOOR, UNDERGROUND, OR WET LOCATIONS.
- F. ALL METAL CONDUIT TO BE REAMED, BURRS REMOVED, AND CLEANED BEFORE INSTALLATION OF CONDUCTORS, WIRES, OR CABLES.
- G. HORIZONTAL RACEWAYS INSTALLED UNDER FLOOR SLABS SHALL LIE COMPLETELY UNDER SLAB, WITH NO PART EMBEDDED WITHIN SLAB.
- H. INSTALL CONCEALED, EMBEDDED, AND BURIED RACEWAYS SO THAT THEY EMERGE AT RIGHT ANGLES TO SURFACE AND HAVE NO CURVED PORTION EXPOSED.
- I. FOR EMPTY CONDUITS INSTALL A NYLON PULL CORD TO BE USED FOR FUTURE INSTALLATIONS.

3.8 RACEWAY PENETRATIONS
- A. MAKE AT RIGHT ANGLES, UNLESS OTHERWISE SHOWN.
- B. NOTCHING OR PENETRATION OF STRUCTURAL MEMBERS, INCLUDING FOOTINGS AND BEAMS, NOT PERMITTED.
- C. FIRE-RATED WALLS, FLOORS, OR CEILINGS: FIRE-STOP OPENINGS AROUND PENETRATIONS TO MAINTAIN FIRE-RESISTANCE RATING.
- D. APPLY SINGLE LAYER OF WRAPAROUND DUCT BAND TO ALL METALLIC CONDUIT PROTRUDING THROUGH CONCRETE FLOOR SLABS TO A POINT 2 INCHES ABOVE CONCRETE SURFACE.
- E. CONCRETE WALLS, FLOORS, OR CEILINGS (ABOVEGROUND): PROVIDE NONSHRINK GROUT DRY-PACK, OR USE WATERTIGHT SEAL DEVICE.
- F. ENTERING STRUCTURES:
  1. SEAL RACEWAY AT THE FIRST BOX WITH CONDUIT SEALING BUSHING TO PREVENT THE ENTRANCE OF GASES OR LIQUIDS FROM ONE AREA TO ANOTHER.
  2. EXISTING OR PRECAST WALL (UNDERGROUND): CORE DRILL WALL AND INSTALL A WATERTIGHT ENTRANCE SEAL DEVICE.

3.9 RACEWAY SUPPORT
- A. SUPPORT FROM STRUCTURAL MEMBERS ONLY, AT INTERVALS NOT EXCEEDING CEC REQUIREMENTS, AND IN ANY CASE NOT EXCEEDING 10 FEET. DO NOT SUPPORT FROM PIPING, PIPE SUPPORTS, OR OTHER RACEWAYS.
- B. WALL BRACKETS AND ASSOCIATED HARDWARE IN CONTACT WITH CONCRETE OR MASONRY SHALL BE STAINLESS STEEL. PROVIDE GALVANIZED STEEL AT ALL OTHER LOCATIONS. STRAP HANGERS AND CEILING TRAPEZE INCLUDING HARDWARE, SHALL BE GALVANIZED STEEL.
- C. PROVIDE AND ATTACH WALL BRACKETS, STRAP HANGERS, OR CEILING TRAPEZE AS FOLLOWS:
  1. WOOD: WOOD SCREWS.
  2. HOLLOW MASONRY UNITS: TOGGLE BOLTS.
  3. CONCRETE OR BRICK: EXPANSION SHIELDS, OR THREADED STUDS DRIVEN IN BY POWDER CHARGE, WITH LOCK WASHERS AND NUTS.
  4. STEELWORK: MACHINE SCREWS.
- D. NAILS OR WOODEN PLUGS INSERTED IN CONCRETE OR MASONRY FOR ATTACHING RACEWAY NOT PERMITTED. DO NOT WELD RACEWAYS OR PIPE STRAPS TO STEEL STRUCTURES. DO NOT USE WIRE IN LIEU OF STRAPS OR HANGERS.

3.10 RACEWAY BENDS
- A. INSTALL CONCEALED RACEWAYS WITH A MINIMUM OF BENDS IN THE SHORTEST PRACTICAL DISTANCE.
- B. AVOID FIELD-MADE BENDS AND OFFSETS, BUT WHERE NECESSARY, MAKE WITH ACCEPTABLE HICKEY OR BENDING MACHINE. DO NOT HEAT METAL RACEWAYS TO FACILITATE BENDING.
- C. PVC CONDUIT:
  1. BENDS 30° AND LARGER: PROVIDE FACTORY-MADE ELBOWS.
  2. 90° BENDS: PROVIDE GALVANIZED RIGID STEEL ELBOWS; EXCEPT ON UTILITY SERVICE RUNS IF NOT ALLOWED BY THE UTILITY.

3.11 PVC CONDUIT
- A. SOLVENT WELDING:
  1. PROVIDE MANUFACTURER RECOMMENDED SOLVENT; APPLY TO ALL JOINTS.
  2. INSTALL SUCH THAT JOINT IS WATERTIGHT.
- B. ADAPTERS:
  1. PVC TO METALLIC FITTINGS: PVC TERMINAL TYPE.
  2. PVC TO RIGID METAL CONDUIT: PVC FEMALE ADAPTER.
- C. BELLED END CONDUIT: BEVEL THE UNBELLED END OF THE JOINT PRIOR TO JOINING.

3.12 TERMINATION AT ENCLOSURES
- A. SHEET METAL BOXES, CABINETS, AND ENCLOSURES:
  1. GALVANIZED RIGID STEEL CONDUIT:
     - a. PROVIDE ONE LOCK NUT EACH ON INSIDE AND OUTSIDE OF ENCLOSURE.
     - b. INSTALL GROUNDING BUSHING.
     - c. PROVIDE BONDING JUMPER FROM GROUNDING BUSHING TO EQUIPMENT GROUND BUS OR GROUND PAD: IF NEITHER GROUND BUS NOR PAD EXISTS, CONNECT JUMPER TO LAG BOLT ATTACHED TO METAL ENCLOSURE.
     - d. INSTALL INSULATED BUSHING ON ENDS OF CONDUIT WHERE GROUNDING IS NOT REQUIRED.
     - e. PROVIDE INSULATED THROAT WHEN CONDUIT TERMINATES IN SHEET METAL BOXES HAVING THREADED HUBS.
  2. ELECTRIC METALLIC TUBING: PROVIDE GLAND COMPRESSION, INSULATED CONNECTORS.

3.13 UNDERGROUND RACEWAYS
- A. COVER: MAINTAIN MINIMUM 2-FOOT COVER ABOVE CONDUIT, UNLESS OTHERWISE SHOWN.
- B. INSTALLATION WITH OTHER PIPING SYSTEMS: MAINTAIN MINIMUM 12-INCH SEPARATION UNLESS OTHERWISE INDICATED. INSTALLATION OVER VALVES OR COUPLINGS NOT PERMITTED.

3.14 CONDUCTORS
- A. DO NOT SPLICE INCOMING SERVICE CONDUCTORS AND BRANCH POWER DISTRIBUTION CONDUCTORS NO. 6 AWG AND LARGER UNLESS SPECIFICALLY INDICATED OR APPROVED BY ENGINEER.
- B. CONNECTIONS AND TERMINATIONS:
  1. INSTALL WIRE NUTS ONLY ON SOLID CONDUCTORS.
  2. INSTALL NYLON SELF-INSULATED CRIMP CONNECTORS AND TERMINATORS FOR CIRCUIT CONDUCTORS NO. 6 AWG AND SMALLER.
  3. TAPE INSULATE ALL UNINSULATED CONNECTIONS.
  4. PLACE NO MORE THAN ONE CONDUCTOR IN ANY SINGLE-BARREL PRESSURE CONNECTION.
  5. INSTALL CRIMP CONNECTORS WITH TOOLS APPROVED BY CONNECTOR MANUFACTURER.
  6. COMPRESSION LUGS:
     - a. ATTACH WITH A TOOL SPECIFICALLY DESIGNED FOR PURPOSE.
     - b. TOOL SHALL PROVIDE COMPLETE, CONTROLLED CRIMP AND SHALL NOT RELEASE UNTIL CRIMP IS COMPLETE.
     - c. DO NOT USE PLIER TYPE CRIMPERS.
- C. DO NOT USE SOLDERED MECHANICAL JOINTS.
- D. SPLICES AND TERMINATIONS:
  1. INDOORS: USE GENERAL PURPOSE, FLAME RETARDANT TAPE.
  2. OUTDOORS: USE FLAME RETARDANT, COLD- AND WEATHER-RESISTANT TAPE.
- E. CAP SPARE CONDUIT WITH UL LISTED END CAPS.
- F. CABINETS AND PANELS:
  1. REMOVE SURPLUS WIRE, BRIDLE AND SECURE.
  2. WHERE CONDUCTORS PASS THROUGH OPENINGS OR OVER EDGES IN SHEET METAL, REMOVE BURRS CHAMFER EDGES, AND INSTALL BUSHINGS AND PROTECTIVE STRIPS OF INSULATING MATERIAL TO PROTECT THE CONDUCTORS.
- G. PROVIDE ADEQUATE LENGTH PIGTAILS FOR CONDUCTORS CONNECTED BY OTHERS.

3.15 GROUNDING
- A. UNLESS OTHERWISE INDICATED, GROUND ALL EXPOSED NON-CURRENT-CARRYING METALLIC PARTS OF ELECTRICAL EQUIPMENT, RACEWAY SYSTEMS, AND THE NEUTRAL OF ALL WIRING SYSTEMS IN ACCORDANCE WITH THE CEC, STATE, AND OTHER APPLICABLE LAWS AND REGULATIONS.

3.16 OPERATIONAL READINESS TEST (ORT)
- A. TESTING, TEST PLANS, AND TEST REPORTS SHALL BE PROVIDED BY THE CONTRACTOR AS SPECIFIED HEREIN. THE CONTRACTOR SHALL PROVIDE LABOR, INSTRUMENTS, AND OTHER MATERIAL TO COMPLETE THE TEST.
- B. THE ENTIRE INSTALLED ELECTRICAL SYSTEM SHALL BE CERTIFIED (INSPECTED, TESTED, AND DOCUMENTED) THAT IT IS READY FOR OPERATION. THE OBJECTIVE OF THIS TEST IS TO DEMONSTRATE THAT THE ELECTRICAL SYSTEM IS COMPLETE AND READY FOR USE.
  - a. PERFORM POINT-TO-POINT TESTS TO DETERMINE THE RESISTANCE BETWEEN THE MAIN GROUNDING SYSTEM AND ALL MAJOR ELECTRICAL EQUIPMENT FRAMES.
  1. DEMONSTRATION:
     - a. DEMONSTRATE PROPER CIRCUITING.
     - b. DEMONSTRATE PROPER PANEL RELABELING.
- C. PANELBOARD DIRECTORIES SHALL MEET MINIMUM CEC 408.4 REQUIREMENTS. THE CONTRACTOR SHALL IDENTIFY EACH CIRCUIT WITH ROOM NUMBER. ROOM NAME AND EQUIPMENT SERVED. STANDARD ABBREVIATIONS FROM THE NEC AND WEBSTER'S DICTIONARY ARE ALLOWED, (E.G., "207 JANITOR WH" OR "102.103 RR RCPT".)
- D. LABELS SHALL BE MELAMINE, FLEXI-BRASS, OR EQUAL MATERIAL, 1.5"HX3"L, WITH 3/8"H TIMES NEW ROMAN LETTERING.
  1. BACKGROUND/LETTERING COLOR SHALL BE AS FOLLOWS:
     - a. BLACK/WHITE
  2. EQUIPMENT LABELING (FOR ALL PROJECT TYPES) SHALL FOLLOW AFTER THE EXAMPLES SHOWN BELOW (FOR GENERATOR/ATS, PANELBOARDS, DISCONNECTS, LIGHTING CONTROL PANELS, ETC.):

PANEL A2
FED FROM PNL B1
400A, 120/208V, 3Ø

DISCONNECT B1
FED FROM PNL M1
60A/15F, 208V/3Ø

ELECTRICAL SYMBOLS

LINES	———	CONDUIT EXPOSED
	- - - - - -	CONDUIT CONCEALED or BURIED
EQUIPMENT	▬	SURFACE MOUNT PANELBOARD
	⏚	GROUNDING ELECTRODE
		CIRCUIT BREAKER
		CURRENT TRANSFORMER, NUMBER INDICATED
ANNOTATION	(#)	KEYNOTE
	(A : B)	INDICATES INTERCONNECTION OF PATHWAYS AND/OR CONDUCTORS, E.G., 4"C-4#500,1#3G (MSB : PNL A) INDICATES CONDUIT AND CONDUCTORS ROUTED FROM THE MAIN SWITCHBOARD TO PANELBOARD A.

NOTE: THIS IS A SUPPLEMENTAL STANDARD ELECTRICAL LEGEND. SOME SYMBOLS MAY APPEAR ON THIS LEGEND AND NOT ON THE PLANS. SEE LIGHTING CONTROL SHEET FOR LIGHTING LEGEND.

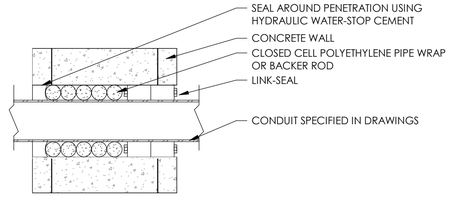
ELECTRICAL ABBREVIATIONS

A	- AMMETER, AMPERE
AIC	- AMPS INTERRUPTING CAPACITY
ATS	- AUTOMATIC TRANSFER SWITCH
BRKR	- BREAKER
C or COND	- CONDUIT
CEC	- CALIFORNIA ELECTRIC CODE
CKT	- CIRCUIT
(E) or EXIST	- EXISTING
EEOR	- ELECTRICAL ENGINEER OF RECORD
EGC	- EQUIPMENT GROUNDING CONDUCTOR
ENC	- ENCLOSURE
G	- EQUIPMENT GROUNDING CONDUCTOR
GEC	- GROUNDING ELECTRODE CONDUCTOR
GFCI	- GROUND FAULT CIRCUIT INTERRUPT
GND	- GROUND
J	- JUNCTION BOX
MBJ	- MAIN BONDING JUMPER
MCB	- MAIN CIRCUIT BREAKER
MFR	- MANUFACTURER
MOCP	- MAXIMUM OVERCURRENT PROTECTION
MSB	- MAIN SWITCH BOARD
MTS	- MANUAL TRANSFER SWITCH
MWIRE	- MULTIWIRE BRANCH CIRCUIT
NEC	- NATIONAL ELECTRIC CODE
NEMA	- NATIONAL ELECTRIC MANUFACTURER'S ASSOCIATION
N	- NEUTRAL
(N)	- NEW
PNL	- PANELBOARD
RCPT	- RECEPTACLE
SWBD	- SWITCHBOARD
TYP	- TYPICAL
V	- VOLTMETER, VOLT
W	- WATT
WW	- WIREWAY
WP	- WEATHERPROOF (NEMA 3R)
XFMR	- TRANSFORMER

NOTE: THIS IS A SUPPLEMENTAL STANDARD LEGEND. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS LEGEND AND NOT ON THE PLANS

COMPLY WITH APPLICABLE CODES

#	CODE
1.	2022 CALIFORNIA BUILDING CODE.
2.	2022 CALIFORNIA ELECTRIC CODE.
3.	2022 CALIFORNIA ENERGY CODE.



PENETRATION WITH WATER-TIGHT SEAL

NOTES:

1. SCAN WALLS PRIOR TO CORING. EXISTING REBAR SHALL NOT BE DAMAGED.
2. PENETRATIONS SHALL BE SPACED 3 TIMES THE WIDTH OF THE OUTDOOR DIAMETER OF ANY CORE.

SLEEVE - CORE THROUGH CONRETE — 1 / E0.0
NTS

BAR IS ONE INCH ON ORIGINAL DRAWING
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS

NO	DATE	DESCRIPTION

PACE ENGINEERING®

DES NP/DB	CKD TB	JOB NO.
DRN DB	DATE 7/26/20	0470.22

SIGNED
REGISTERED PROFESSIONAL ENGINEER — TIMOTHY A. BOBSEIN — No. E 017988 — ELECTRICAL — STATE OF CALIFORNIA

SISKIYOU COUNTY GOVERNMENT CENTER
PARKING LOT IMPROVEMENTS

ELECTRICAL SPECIFICATIONS

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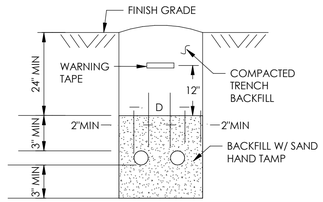


NOTES:

1. D=3" MIN FOR 2" AND LARGER CONDUIT
2. D=2" MIN FOR 1 1/2" AND SMALLER CONDUIT
3. CONDUIT DETAIL FOR LESS THAN 4 RACEWAYS PER TRENCH.
4. DUCT RUNS WITH 5 OR MORE CONDUITS SHALL EMPLOY DUCT SPACERS.

RACEWAY - UNDERGROUND CONDUIT (1 / E0.1)
NTS

(E) PANELBOARD GEN

LOCATION	BOILER ROOM	VOLTS	120/208 WYE
MOUNTING TYPE	SURFACE	WIRES	4
ENCLOSURE TYPE	NEMA 1	CIRCUITS	18
		BUS RATING	200 A
		MAIN BREAKER	200 A

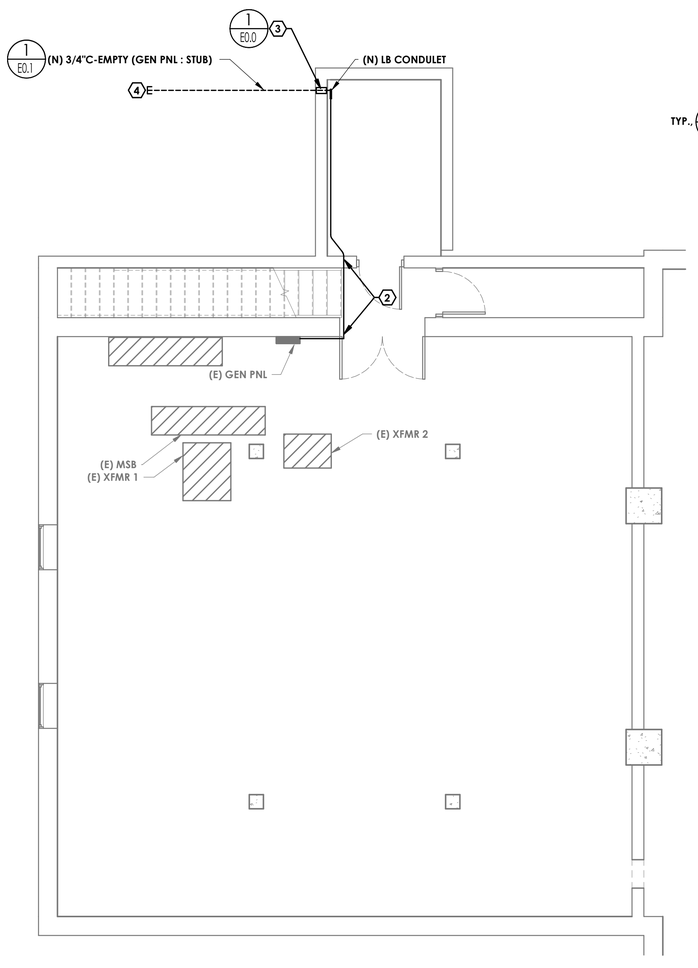
CKT	HOME RUN	LOAD NAME	TRIP	INT TYPE	A	B	C	A	B	C	INT TYPE	TRIP	LOAD NAME	HOME RUN	CKT
1	--	(E) SPACE	--	--	--			**1440 VA**			--	**20 A**	**(N) STORM DRAIN PUMP**	**(N) 3/4"C-2#10,1#10G**	2
3	--	(E) SPACE	--	--		--			--		--	--	**(N) SPACE**	--	4
5	--	(E) SPACE	--	--			--			--	--	--	**(N) SPACE**	--	6
7	EXISTING	(E) IT HVAC PNL	100 A	--	0 VA			0 VA			--	20 A	(E) GEN HTR & CHGR	EXISTING	8
9						0 VA			0 VA						10
11							0 VA			0 VA	--	50 A	(E) TELECOM RM PNL	EXISTING	12
13	EXISTING	(E) IT PNL	125 A	--	0 VA			0 VA							14
15						0 VA			0 VA		--	20 A	(E) TELECOM RM HVAC	EXISTING	16
17							0 VA			0 VA					18
					PHASE A		PHASE B			PHASE C	Notes:				
		TOTAL LOAD (VA)			**1440 VA**		0 VA			0 VA					
		TOTAL LOAD (AMPS)			**12**		0			0					

KEYNOTES

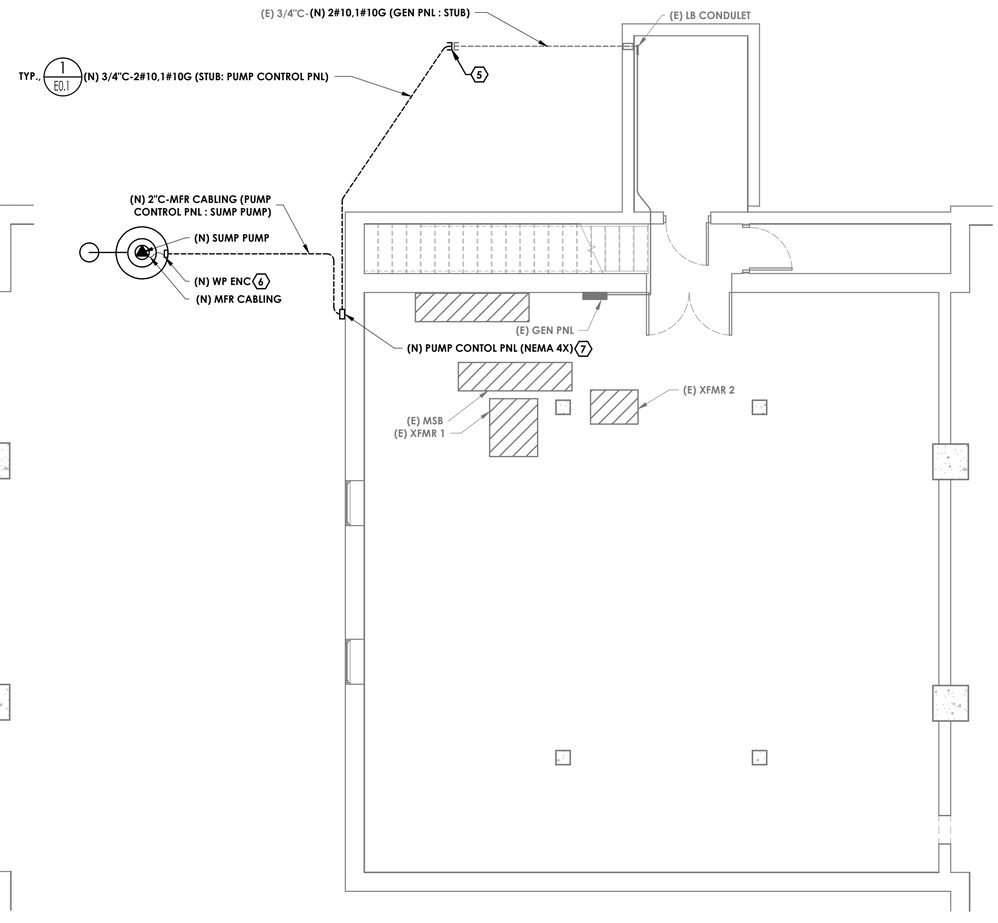
#	NOTE
1.	REMOVE EXISTING 125A/3P SPARE BREAKER AND REPLACE WITH NEW 20A BREAKER AND 2 SPACES. THE NEW CIRCUIT BREAKER SHALL BE OF THE SAME TYPE AND RATING AS EXISTING. UPDATE CIRCUIT DIRECTORY.
2.	INSTALL NEW RMC CONDUIT ALONG SAME PATH AS EXISTING. UTILIZE EXISTING PENETRATIONS FOR NEW CONDUIT.
3.	TRENCH TO WALL OF CONCRETE STRUCTURE AND CORE THROUGH CONCRETE. SEAL WALL PENETRATION AFTER CONDUIT INSTALLATION.
4.	CAP CONDUIT TO PREVENT DEBRIS FROM ENTERING CONDUIT BETWEEN PHASES.
5.	COUPLE NEW CONDUIT TO EXISTING AND EXTEND.
6.	PROVIDE AND INSTALL WATERTIGHT ENCLOSURE. LIBERTY PUMPS JB70, OR EQUAL SHALL BE UTILIZED. FLOAT AND PUMP CABLES SHALL BE SEALED WITH CABLE GLADS AT ENCLOSURE.
7.	PROVIDE AND INSTALL PUMP CONTROL PANEL WITH HIGH LEVEL ALARMS. LIBERTY PUMPS SXL24=3 OR EQUAL SHALL BE UTILIZED. THE CONTROL PANEL SHALL BE MOUNTED TO THE BUILDING EXTERIOR.

GENERAL NOTES

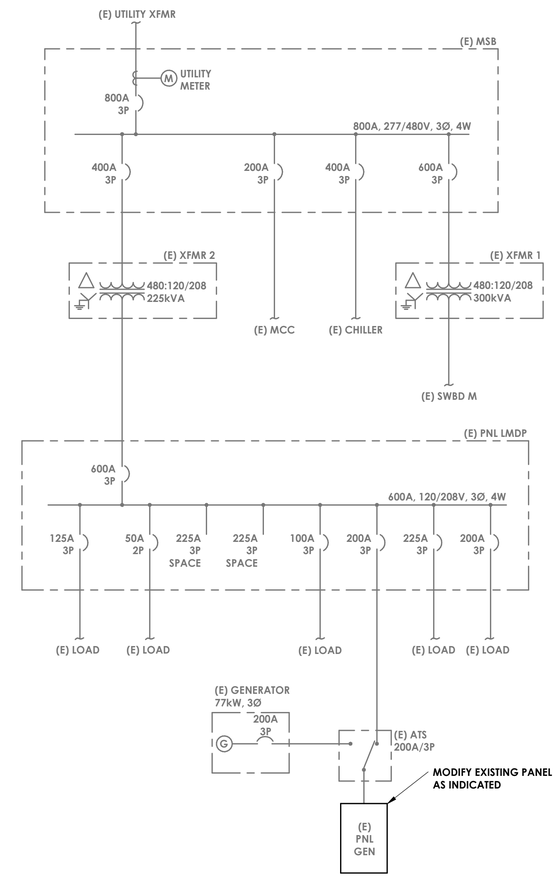
#	NOTE
1.	REFER TO CIVIL DRAWINGS FOR COMPLETE SUMP PUMP SCOPE OF WORK. CONDUIT ROUTING SHALL ALIGN WITH CIVIL DRAWINGS. PROVIDE AND INSTALL ALL PUMP ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.
2.	COORDINATE WITH CIVIL SCOPE OF WORK FOR PHASING. PHASE ONE IS IN PREPORATION FOR THE INSTALLATION OF THE SUMP PUMP. PHASE TWO WORK IS TO BE COMPLETED AFTER THE MAJORITY OF CIVIL WORK IS COMPLETED.



ELECTRICAL SITE PLAN - PHASE 1 (2 / E0.1)
3/16" = 1'-0"



ELECTRICAL SITE PLAN - PHASE 2 (3 / E0.1)
3/16" = 1'-0"



ONE-LINE DIAGRAM (4 / E0.1)

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REVISIONS

NO	DATE	DESCRIPTION

PACE ENGINEERING

DES NP/DB	CKD TB	JOB NO.
DRN DB	DATE 7/26/20	0470.22

SIGNED
REGISTERED PROFESSIONAL ENGINEER — ANTHONY A. BORRELLI — No. E 017988 — ELECTRICAL — STATE OF CALIFORNIA

SISKIYOU COUNTY GOVERNMENT CENTER
PARKING LOT IMPROVEMENTS

ONE-LINE DIAGRAM & ELECTRICAL PLANS

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STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ELC-E

This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4Bviii

Project Name:	Government Center ADA Parking	**Report Page:**	**(Page 1 of 4)**
Project Address:	311 4th St, Yreka, CA 96097	**Date Prepared:**	2024-07-23T17:36:29-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Yreka	02	Climate Zone	16
			03	Occupancy Types Within Project:	Office

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Scope of Work[1]	Rating[2] (kVA)	Utility Provided Metering System Exception to 130.5(a)/ 160.6(a)[3]	System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
E0.2	Add/Alt to feeders and branch circuits only	---	☐	☐	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/ 160.3, 130.1/ 160.5, and 130.3/ 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	☐

[1] *FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.*
[2] *If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.*
[3] *Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.*

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ELC-E

Project Name:	Government Center ADA Parking	**Report Page:**	**(Page 3 of 4)**
		Date Prepared:	2024-07-23T17:36:29-04:00

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-ELC-E - Must be submitted for all buildings

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Generated Date/Time:
Report Version: 2022.0.000
Schema Version: rev 20220101
Documentation Software: Energy Code Ace
Compliance ID: 214144-0724-0003
Report Generated: 2024-07-23 14:36:31

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ELC-E

Project Name:	Government Center ADA Parking	**Report Page:**	**(Page 2 of 4)**
		Date Prepared:	2024-07-23T17:36:29-04:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through J. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01		02		03		04	05	06
Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G)	AND	Voltage Drop 130.5(c)/ 160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	**Compliance Results**
	AND		AND	Yes	AND			COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Pii/ 180.2(b)4Bviic.

01	02			03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method			Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
						Pass	Fail
E0.2	☒	Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))*	In construction documents	E1.0	☐	☐

** NOTES: If "Permitted by CA Elec Code "* is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

[1] *FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".*

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
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STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCC-ELC-E

Project Name:	Government Center ADA Parking	**Report Page:**	**(Page 4 of 4)**
Project Address:	311 4th St, Yreka, CA 96097	**Date Prepared:**	2024-07-23T17:36:29-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Anthony Bowser	Documentation Author Signature:
Company: PACE Engineering Inc	Signature Date: 7/23/2024
Address: 5155 Venture Pkwy.	CEA/ HERS Certification Identification (if applicable):
City/State/zip: Redding, CA 96002	Phone: 530 244 0202

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Anthony Bowser	Responsible Designer Signature:
Company: PACE Engineering Inc	Date Signed: 7/23/2024
Address: 5155 Venture Pkwy.	License: E 017988
City/State/zip: Redding, CA 96002	Phone: 530 244 0202

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Generated Date/Time:
Report Version: 2022.0.000
Schema Version: rev 20220101
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VOLTAGE DROP CALCULATIONS

DISTRIBUTION	LOAD TYPE	CONDUIT MATERIAL	CONDUCTOR MATERIAL	QUANTITY OF RUNS	CONDUCTOR SIZE (AWG)	CURRENT (A)	DISTANCE (FT)	VOLTAGE (V)	IMPEDANCE (Z)	VOLTAGE DROP (VD)	**VOLTAGE DROP (%)**
MSB : XFMR 2	LINE-LINE (3Ø)	EMT	CU	1	500	320	10	480	0.05	0.27	**0.06%**
XFMR 2 : PNL LMDP	LINE-LINE (3Ø)	EMT	CU	2	350	480	10	208	0.03	0.24	**0.12%**
PNL LMDP : ATS	LINE-LINE (3Ø)	EMT	CU	1	3/0	160	15	208	0.09	0.38	**0.18%**
ATS : PNL GEN	LINE-LINE (3Ø)	EMT	CU	1	3/0	160	8	208	0.09	0.20	**0.10%**
PNL GEN : PUMP	LINE-NEUTRAL	EMT	CU	1	10	15	75	120	1.10	1.24	**1.03%**
										TOTAL VOLTAGE DROP:	**1.48%**

LINE-NEUTRAL	VD = (L * Z * I)/1000	LINE-LINE (3Ø)	VD = (SQRT(3) * L * X * I)/1000	L = DISTANCE	Z = IMPEDANCE
LINE-LINE (1Ø)	VD = (2 * L * Z * I)/1000			I = CURRENT	VD = VOLTAGE DROP

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SIGNED
REGISTERED PROFESSIONAL ENGINEER ANTHONY A. BOWSER No. E 017988 ELECTRICAL STATE OF CALIFORNIA

SISKIYOU COUNTY GOVERNMENT CENTER
PARKING LOT IMPROVEMENTS

TITLE 24 ELECTRICAL COMPLIANCE DOCUMENTS

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